



Full wwPDB EM Validation Report ⓘ

Mar 24, 2026 – 06:08 PM UTC

PDB ID : 9E1B / pdb_00009e1b
EMDB ID : EMD-47388
Title : Structure of RyR1 in the open state in the presence of dyphylline
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 4.49 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:

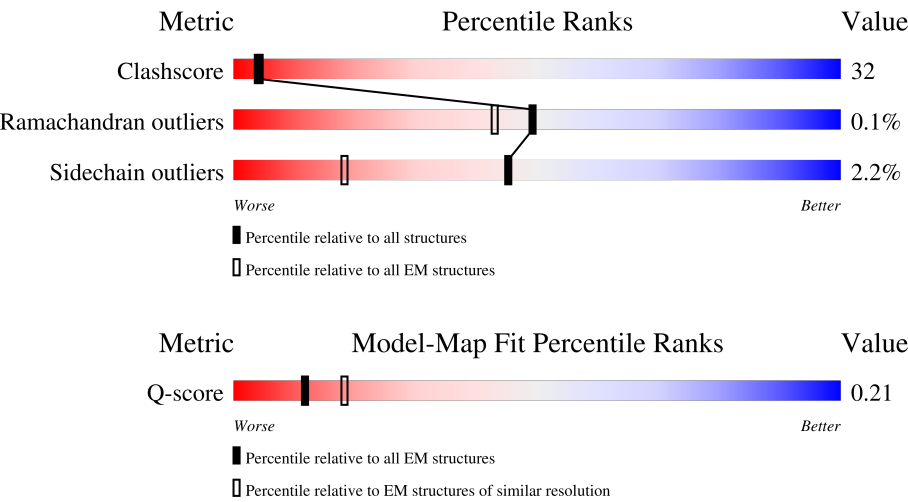
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data 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 i

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

The reported resolution of this entry is 4.49 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	2913 (3.99 - 4.99)

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	57% 39%47%13%
1	B	5037	57% 39%47%13%
1	C	5037	57% 39%47%13%
1	D	5037	57% 39%47%13%

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Mol	Chain	Length	Quality of chain
2	E	108	97% 33% 64% ..
2	F	108	97% 38% 60% ..
2	G	108	96% 40% 57% ..
2	H	108	96% 39% 56% . .

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 144128 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Ryanodine receptor 1.

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

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

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

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



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

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

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

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

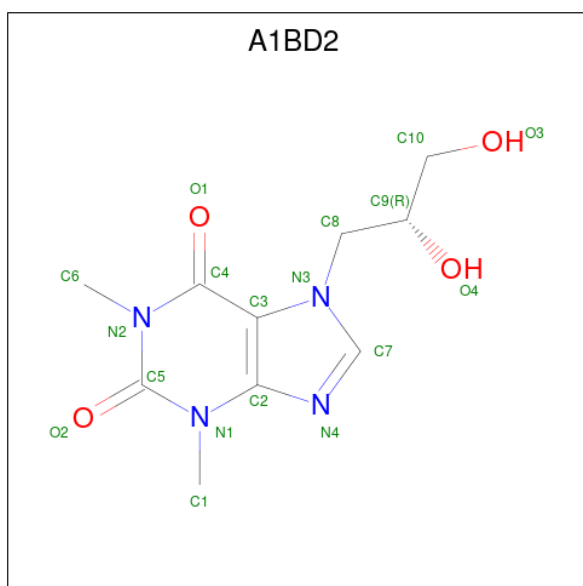
Mol	Chain	Residues	Atoms	AltConf
5	A	1	Total Zn 1 1	0

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

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



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

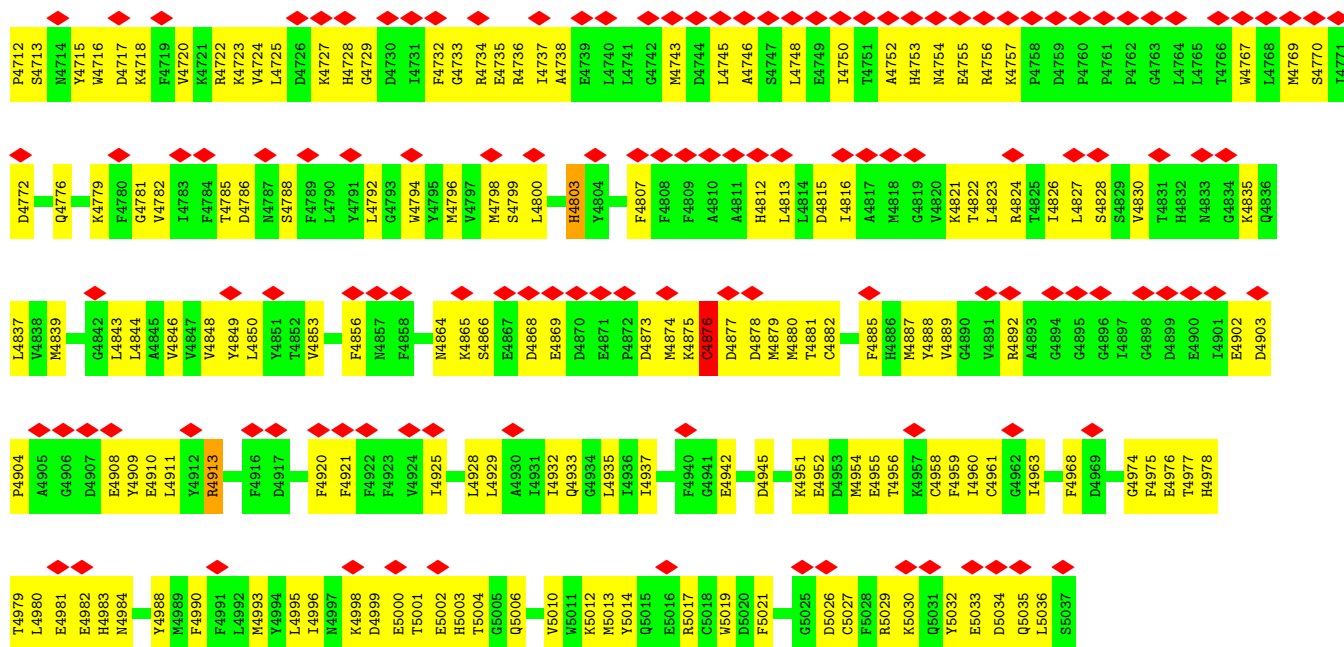




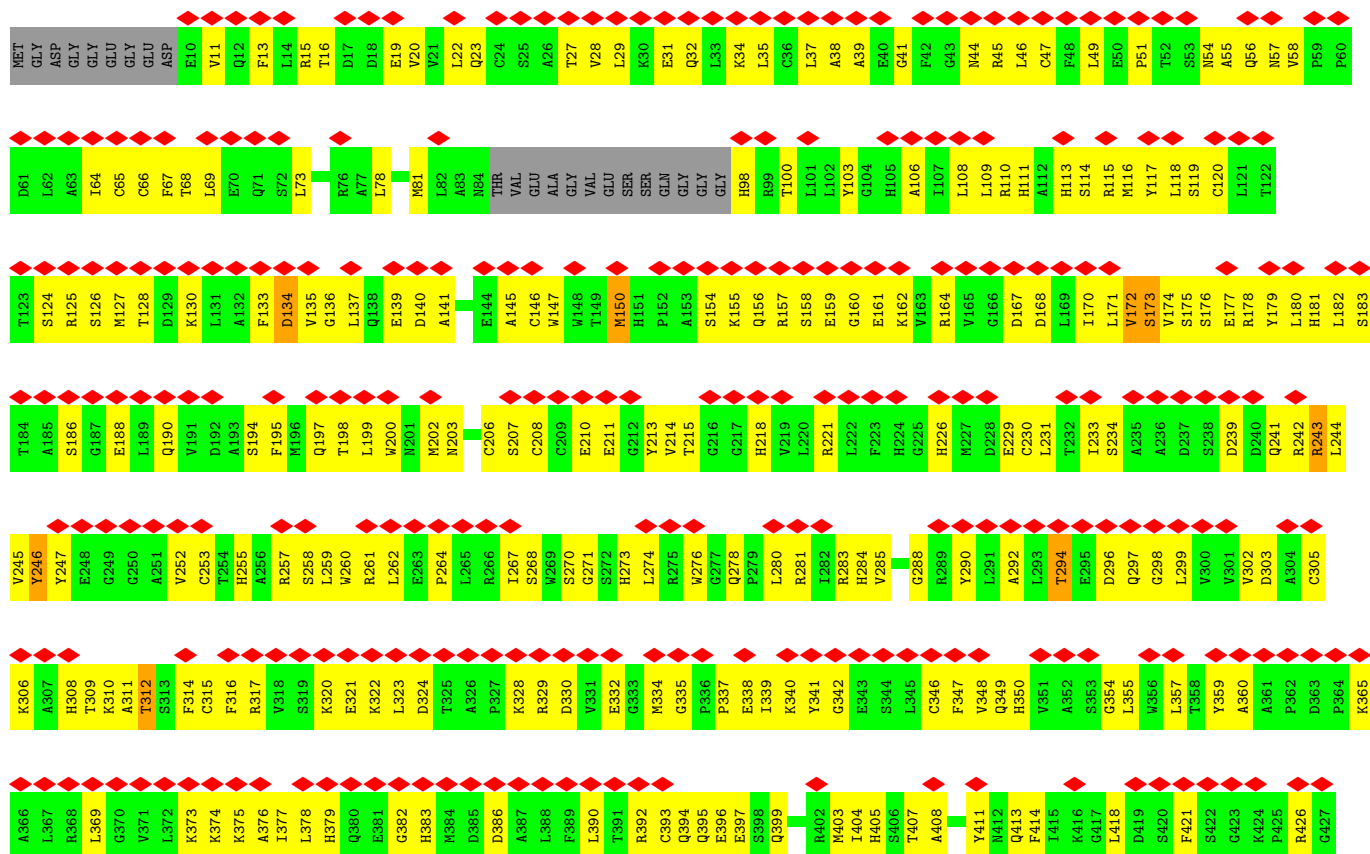
R2965	R2966	R2967	R2968	R2969	R2970	R2971	R2972	R2973	R2974	R2975	R2976	R2977	R2978	R2979	R2980	R2981	R2982	R2983	R2984	R2985	R2986	R2987	R2988	R2989	R2990	R2991	R2992	R2993	R2994	R2995	R2996	R2997	R2998	R2999	R3000	R3001	R3002	R3003	R3004	R3005	R3006	R3007	R3008	R3009	R3010	R3011	R3012	R3013	R3014	R3015	R3016	R3017	R3018	R3019	R3020	R3021	R3022	R3023	R3024																			
L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	K2913	A2914	E2915	K2916	A2917	R2918	D2919	R2920	K2921	E2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	L2930	Q2931	M2932	N2933	G2934	Y2935	A2936	V2937	T2938	R2939	GLY	LEU	L3000	L3001	L3002	L3003	P3004	L3005	L3006	R3007	K3008	F3009	F3010	T3011	R3012	H3013	C3014	L3015	F3016	F3017	F2985	A2966	F2967	G2968	F2969	S3010	T3020	F3021	K3022	K3023	V3024													
L2785	K2786	T2787	H2788	P2789	M2790	L2791	R2792	F2793	T2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	L2804	Y2805	R2806	R2807	E2808	F2809	K2810	E2811	S2812	L2813	K2814	A2815	L2816	L2817	A2818	V2819	N2820	T2821	L2822	E2823	K2824	K2825	A2826	R2827	E2828	G2829	E2830	GLY	GLU	THR	GLY	L3000	L3001	L3002	L3003	P3004	L3005	L3006	R3007	K3008	F3009	F3010	T3011	R3012	H3013	C3014	L3015	F3016	F3017	F2985	A2966	F2967	G2968	F2969	S3010	T3020	F3021	K3022	K3023	V3024
THR	ALA	GLN	THR	TYR	ASP	PRO	ARG	GLY	Y2855	N2856	P2857	Q2858	P2859	R2860	D2861	L2862	S2863	G2864	V2865	L2866	L2867	S2868	R2869	E2870	L2871	Q2872	A2873	M2874	A2875	E2876	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	N2884	T2885	W2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	G2899	G2900	T2901	H2902	P2903	L2904																				
L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	K2913	A2914	E2915	K2916	A2917	R2918	D2919	R2920	K2921	E2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	L2930	Q2931	M2932	N2933	G2934	Y2935	A2936	V2937	T2938	R2939	GLY	LEU	L3000	L3001	L3002	L3003	P3004	L3005	L3006	R3007	K3008	F3009	F3010	T3011	R3012	H3013	C3014	L3015	F3016	F3017	F2985	A2966	F2967	G2968	F2969	S3010	T3020	F3021	K3022	K3023	V3024													
C2240	R2241	I2242	S2243	R2244	Q2245	W2246	Q2247	R2248	S2249	W2250	F2251	D2252	S2255	Y2256	E2259	N2260	S2261	G2262	I2263	G2264	L2265	G2266	M2267	Q2268	G2269	S2270	T2271	L2272	L2273	D2274	V2275	A2276	A2277	S2278	S2279	I2280	I2281	D2282	N2283	L2286	A2287	L2288	A2289	L2290	Q2291	E2292	Q2293	D2294	L2295	E2296	K2297	V2298	S2300	Y2301	L2302																							
A2303	Q2304	C2305	G2306	L2307	Q2308	S2309	C2310	P2311	M2312	L2313	L2314	A2315	K2316	G2317	Y2318	P2319	D2320	I2321	G2322	H2323	W2324	G2325	C2326	G2327	G2328	E2329	R2330	Y2331	L2332	D2333	F2334	L2335	R2336	F2337	A2338	V2339	F2340	W2341	N2342	S2345	V2346	E2347	E2348	N2349	Q2351	V2352	V2353	V2354	R2355	L2356	N2357	V2358	H2359	L2360	P2361	E2362	C2363																					
F2364	G2365	P2366	A2367	L2368	R2369	G2370	E2371	G2372	G2373	S2374	L2375	L2376	L2377	A2378	A2379	I2380	E2381	E2382	A2383	L2384	R2385	I2386	S2387	E2388	D2389	P2390	A2391	R2392	D2393	G2394	P2395	G2396	V2397	ARG	ARG	ARG	ARG	GLU	HIS	PHE	GLY	GLU	GLU	P2410	P2411	E2412	E2413	N2414	R2415	V2416	H2417	L2418	G2419	H2420	A2421	T2422	M2423																					
S2424	F2425	Y2426	A2427	A2428	L2429	I2430	D2431	L2432	L2433	G2434	R2435	C2436	A2437	P2438	E2439	M2440	H2441	L2442	L2443	Q2444	A2445	G2446	K2447	G2448	E2449	A2450	L2451	R2452	L2453	R2454	A2455	L2456	L2457	R2458	S2459	L2460	V2461	P2462	L2463	D2464	D2465	L2466	V2467	G2468	L2469	L2470	S2471	L2472	P2473	L2474	Q2475	L2476	P2477	T2478	L2479	G2480	K2481	D2482	G2483																			
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T2544	E2545	M2546	A2547	L2548	A2549	L2550	W2551	Y2552	Y2553	L2554	C2555	L2556	A2557	V2558	M2559	P2560	L2561	T2562	T2563	C2564	C2565	P2566	L2567	L2568	F2569	A2570	G2571	T2572	E2573	H2574	R2575	A2576	L2577	M2578	V2579	D2580	S2581	W2582	L2583	H2584	T2585	V2586	Y2587	R2588	L2589	S2590	R2591	G2592	R2593	S2594	L2595	A2598	Q2599	R2600	D2601	T2602	L2603	E2604																				
D2605	C2606	L2607	M2608	A2609	L2610	C2611	R2612	Y2613	I2614	R2615	P2616	S2617	M2618	L2619	Q2620	H2621	L2622	L2623	R2624	R2625	L2626	V2627	F2628	D2629	Y2630	P2631	I2632	L2633	N2634	E2635	F2636	A2637	K2638	M2639	P2640	L2641	K2642	L2643	L2644	T2645	N2646	H2647	Y2648	E2649	R2650	C2651	W2652	K2653	Y2654	Y2655	C2656	L2657	P2658	T2659	G2660	W2661	A2662	N2663	F2664																			
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THR	ALA	GLN	THR	TYR	ASP	PRO	ARG	GLY	Y2855	N2856	P2857	Q2858	P2859	R2860	D2861	L2862	S2863	G2864	V2865	L2866	L2867	S2868	R2869	E2870	L2871	Q2872	A2873	M2874	A2875	E2876	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	N2884	T2885	W2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	G2899	G2900	T2901	H2902	P2903	L2904																				
L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	K2913	A2914	E2915	K2916	A2917	R2918	D2919	R2920	K2921	E2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	L2930	Q2931	M2932	N2933	G2934	Y2935	A2936	V2937	T2938	R2939	GLY	LEU	L3000	L3001	L3002	L3003	P3004	L3005	L3006	R3007	K3008	F3009	F3010	T3011	R3012	H3013	C3014	L3015	F3016	F3017	F2985	A2966	F2967	G2968	F2969	S3010	T3020	F3021	K3022	K3023	V3024													

E3755	E3688	S3625	G3565	V3505	W3445	A3385	N3325	E3265	F3205	Q3145	P3085	L3025
K3756	E3689	K3626	S3566	Q3506	S3446	E3386	N3326	M3266	L3206	H3146	E3086	G3026
E3757	V3690	Q3627	P3567	T3507	K3447	A3387	L3327	P3267	E3207	I3147	I3087	S3027
E3759	E3691	R3628	S3568	S3508	S3448	E3388	G3328	H3268	P3208	A3148	V3088	G3028
E3760	E3692	R3629	L3569	L3509	H3449	E3389	G3329	V3269	Q3209	Q3149	K3089	G3029
E3761	K3693	R3630	R3570	L3510	N3450	G3390	D3330	I3270	L3210	H3150	A3090	H3030
K3762	K3694	A3631	W3571	V3511	F3451	E3391	E3331	E3271	N3211	Q3151	G3091	A3031
L3763	P3695	V3632	Q3572	A3512	K3452	L3392	A3332	I3272	E3212	F3152	L3092	S3032
Q3766	L3698	V3633	A3574	T3513	K3453	L3393	T3333	T3273	Y3213	G3153	R3093	N3033
Q3767	L3701	V3634	L3575	L3514	E3455	V3394	W3334	L3274	N3214	D3154	S3094	K3034
Q3768	V3702	C3635	Y3576	K3515	E3456	R3395	W3335	P3275	A3215	D3155	F3095	E3035
R3769	F3636	F3636	Y3577	K3516	K3457	D3396	K3336	M3276	C3216	V3156	F3096	K3036
H3771	R3637	M3638	R3577	M3517	K3457	E3397	R3337	L3277	S3217	I3157	E3097	E3037
T3772	R3638	R3638	G3578	L3518	F3458	F3398	L3338	C3278	V3218	L3158	S3098	K3038
R3773	T3639	P3639	L3579	P3519	V3459	S3399	A3339	S3279	Y3219	D3159	A3099	I3039
G3774	P3640	P3640	P3580	I3520	V3460	V3400	V3340	Y3280	T3220	D3160	S3100	T3040
A3775	L3641	Y3642	Q3581	G3521	Q3461	L3401	F3341	L3281	T3221	V3161	E3101	S3041
E3777	Y3642	Y3642	R3582	L3522	N3462	C3402	A3342	R3282	K3222	Q3162	D3102	L3042
V3779	N3643	L3644	E3583	N3523	E3463	R3403	Q3343	R3283	S3223	V3163	I3103	F3043
L3780	L3644	L3644	E3584	M3524	I3464	D3404	P3344	W3284	P3224	E3104	K3105	C3044
Q3781	H3647	H3647	D3585	C3525	N3465	L3405	I3345	W3285	R3225	C3165	M3106	K3045
K3782	R3648	R3648	A3586	A3526	N3466	Y3406	V3346	E3286	E3226	Y3166	V3107	L3046
L3783	A3649	A3649	D3587	P3527	N3467	A3407	S3347	R3287	R3227	R3167	S3107	A3047
A3649	C3650	C3650	P3588	T3528	S3468	L3408	R3348	G3288	A3228	T3168	E3108	A3048
K3785	N3651	N3651	P3589	Q3529	F3469	F3409	A3349	P3289	I3229	L3169	N3109	L3049
C3786	K3652	K3652	E3590	Q3530	L3470	P3409	R3350	E3290	L3230	C3170	L3110	V3050
K3787	F3653	F3653	K3591	D3531	T3471	L3411	P3351	A3291	G3231	S3171	R3111	R3051
Q3788	L3654	L3654	I3592	L3532	A3472	L3412	E3352	P3292	L3232	Y3173	L3112	H3052
E3789	E3655	E3655	V3593	T3533	D3473	L3413	L3353	P3293	P3233	K3174	G3113	R3053
T3790	K3658	K3658	R3594	I3534	S3474	R3414	L3354	P3294	N3234	S3174	K3114	V3054
K3793	A3659	A3659	R3595	M3534	K3475	Y3415	H3355	A3295	S3235	L3175	V3115	S3055
S3796	A3660	A3660	Q3597	A3536	S3476	Y3416	S3356	L3296	V3236	G3176	S3116	L3056
T3797	W3661	W3661	E3598	K3537	K3477	D3417	H3357	P3297	E3237	T3177	GLN	F3057
K3798	L3662	L3662	E3598	T3538	K3478	N3417	F3358	A3298	E3238	T3178	ALA	G3058
L3800	L3663	L3663	S3599	R3539	N3479	N3419	I3359	G3299	M3239	K3179	THR	T3059
G3801	E3665	E3665	A3601	Y3540	ALA	R3420	P3360	A3300	C3240	N3180	GLN	D3060
L3803	D3666	D3666	V3602	A3541	GLY	A3421	T3361	P3301	P3241	T3181	V3123	A3061
L3805	H3667	H3667	L3603	L3542	ASP	H3422	I3362	P3302	D3242	Y3182	K3124	P3062
L3806	S3668	S3668	Y3604	K3543	ALA	W3423	G3363	P3303	I3243	V3183	G3125	A3063
G3807	F3669	F3669	H3605	D3544	SER	L3424	R3364	C3304	P3244	E3184	G3126	V3064
Q3808	E3670	E3670	L3606	T3545	GLY	T3425	L3365	T3305	V3245	K3185	Q3127	V3065
E3811	E3671	E3671	E3607	D3546	GLY	F3426	R3366	A3306	L3246	L3186	N3128	N3066
V3812	R3672	R3672	Q3608	E3547	ASP	P3427	K3367	V3307	D3247	R3187	L3129	C3067
Q3813	L3674	L3674	T3609	E3548	GLN	N3428	R3368	T3308	R3248	P3188	T3130	L3068
Q3814	D3675	D3675	H3611	V3549	ARG	A3429	A3369	S3309	L3249	A3189	Y3131	H3069
K3815	Q3676	Q3676	P3612	R3550	THR	N3430	G3370	S3309	M3250	L3190	T3132	L3071
K3816	L3679	L3679	Y3613	E3551	LYS	A3431	K3371	H3311	A3251	G3191	T3133	L3071
Y3819	A3680	A3680	K3614	F3552	LYS	E3432	V3372	L3312	D3252	E3192	V3134	A3072
E3749	G3681	G3681	S3615	Q3554	R3498	R3433	V3373	N3313	I3253	C3193	V3134	K3073
E3750	E3682	E3682	K3616	N3555	R3499	L3434	A3374	S3314	G3254	L3194	A3136	S3074
V3751	Q3683	Q3683	K3617	N3556	D3500	F3435	E3375	L3315	G3255	A3195	L3137	L3075
S3752	K3684	K3684	A3618	N3557	D3501	R3436	E3376	L3316	L3256	L3196	P3138	D3076
F3753	E3685	E3685	V3619	H3558	R3502	W3437	Q3377	G3317	A3257	L3197	V3139	K3077
E3754	E3686	E3686	W3620	L3559	Y3503	E3438	L3378	N3318	E3258	A3198	V3139	A3078
	E3687	E3687	K3621	Q3560	S3504	G3439	L3379	I3319	S3259	A3199	L3140	T3079
			K3622	G3561	I3441	E3440	R3380	I3320	G3260	A3199	T3141	V3080
			L3623	K3562	F3442	I3441	L3381	R3321	A3261	K3201	T3142	K3081
			L3624	V3563	I3443	I3443	E3382	I3322	K3262	P3202	L3143	K3082
				E3564	Y3444	Y3444	A3383	I3323	Y3263	V3203	F3144	S3083
							K3384	V3324	T3264	A3204		G3084





• Molecule 1: Ryanodine receptor 1



M1170	R1110	G1050	E990	K930	I1870	A809	D749	L688	G628	Y565	R493	S428
S1171	P1111	Y1051	G991	T931	R871	P810	L750	T689	R629	C566	L494	Q429
D1172	D1112	I1052	G992	L932	E872	C311	S751	E690	E630	V567	N495	P430
S1173	V1113	I1053	H993	L933	K873	H812	V752	G691	L631	L568	V496	P431
L1174	E1114	E1054	N994	A934	L874	E813	P753	Y692	L632	I569	Y497	A432
S1175	L1115	P1055	W996	L935	A875	A815	S754	S693	L633	E570	H503	Q433
E1176	G1116	P1056	A997	G936	E876	W815	I755	P694	Q634	P572	F502	P434
T1177	A1117	D1057	R998	C937	N877	L816	F757	Y695	N636	E573	A504	A435
A1178	D1118	Q1058	D999	H938	R878	P817	R758	P696	L637	V574	A507	L436
F1179	E1119	E1059	R1000	V939	H879	R818	I759	G697	L638	L575	G508	P437
R1180	L1120	P1060	V1001	G940	E880	E819	I769	G698	N639	N576	E509	I438
E1181	A1121	S1061	A1002	N941	E881	R820	N760	G699	Y640	I577	E510	A440
I1182	V1122	Q1062	Q1003	A942	W882	L821	G761	E700	V641	I578	A512	I442
E1183	F1123	V1063	G1004	D943	A883	R822	C762	G701	T642	Q579	E513	
F1184	N1125	E1064	W1005	E944	L884	L823	P763	W702	T641	E580	E513	
G1185	G1126	N1065	S1006	K945	T885	E824	Q765	G703	S943	N581	S514	
D1186	H1127	Q1066	Y1007	K946	R886	P825	G766	G704	I644	H582	S514	
G1187	R1128	S1067	S1008	E947	T887	T826	V767	R645	R645	K584	N515	
F1188	Q1129	R1068	A1009	E948	E888	K827	F768	G706	P646	S585	K516	
L1189	G1130	W1069	V1010	N949	Q889	E828	E769	V707	N647	I586	I518	
P1190	R1131	D1070	Q1011	L950	G890	Y829	A770	G708	I648	I587	V519	
V1191	W1132	R1071	D1012	K951	N891	R830	F771	D709	F649	S588	Y523	
C1192	H1133	V1072	I1013	K952	T892	R831	W772	D710	V650	L589	Y523	
S1193	G1135	R1073	P1014	T953	Y893	E832	L773	L711	G651	I530	L529	
L1194	S1136	I1074	A1015	K954	G894	G833	D774	Y712	R652	T530	I530	
P1196	E1137	F1075	R1016	L955	P895	P834	G775	S713	H593	R531	E457	
G1197	P1138	R1076	R1017	P956	W896	R835	L776	E714	E654	N533	E458	
Q1198	F1139	A1077	N1018	K957	R897	H839	F777	G715	G655	R596	Q460	
V1199	G1140	E1078	P1019	T958	D898	W840	V778	F716	S656	H597	E462	
G1200	R1141	K1079	R1020	R959	D899	G841	P779	D717	T657	K598	E463	
H1201	P1142	S1080	L1021	Y959	N900	P842	G718	Q658	Q658	V599	K464	
L1202	Q1144	Y1081	V1022	N960	K901	S843	L719	Y659	L600	D601	K467	
N1203	S1145	T1082	P1023	S962	R902	R844	W720	G660	Y659	L539	L468	
L1204	G1146	Q1084	Y1024	N963	L903	C845	S784	W622	L602	F540	R469	
G1205	D1147	S1085	R1025	K964	H904	C845	A785	G724	L603	S941	S470	
Q1206	V1148	G1086	L1026	Y965	P905	S847	G786	F664	S605	T542	R472	
D1207	W1149	R1087	D1028	K966	C906	H848	V787	E665	L606	D545	K473	
S1208	G1150	W1088	E1029	P967	L907	T849	K788	V666	C507	C507	R474	
S1209	C1151	Y1089	A1030	A968	Y908	D850	W789	N667	N610	Y548	R474	
S1210	M1152	F1090	N1030	P969	N909	P851	R790	V669	K950	S549	Q475	
L1211	I1153	E1091	T1031	L970	F910	W852	P729	D670	L551	S552	S476	
R1212	D1154	F1092	K1032	D971	H911	P853	V730	E670	L551	L551	F478	
F1213	L1155	E1093	R1033	L972	S912	C854	L792	V671	R615	D552	Q479	
F1214	T1156	A1094	S1034	S973	L913	P855	G794	W672	S616	R553	E481	
A1215	E1157	I1095	N1035	H974	P914	W856	P673	G734	N617	E555	G482	
I1216	N1158	T1096	R1036	V975	E915	D857	T733	F674	L620	M483	M483	
C1217	T1159	T1097	D1037	L976	R916	T858	H797	L675	I621	S557	S485	
G1218	I1160	G1098	S1038	L977	P917	W859	G798	T676	T622	S558	L486	
L1219	F1161	E1099	L1039	L977	E917	V859	E799	A677	E623	G559	V487	
Q1220	V1162	E1099	L1039	L977	R918	Q860	L738	Q678	N624	I560	L488	
E1221	T1163	M1100	C1040	P979	N919	T861	F800	A679	L561	E562	C490	
G1222	L1164	R1101	Q1041	A980	N919	V862	K901	T680	L626	V563	I491	
F1223	N1165	V1102	A1042	Q981	Y920	L863	F802	H681	P627	L564	D492	
E1224	G1166	G1103	V1043	T982	N921	L964	L803	L682				
F1225	E1167	W1104	T1045	T983	Q923	P865	P805	R683				
F1226	V1168	A1105	L1046	L984	N924	H866	P906	V684				
A1227	L1169	R1106	L1047	V985	S925	L867	G807	G685				
N1228		P1107	D986	P987	G926	E868	Y808	W686				
		E1108	G1048	R987	E927	R869		A687				
		L1109	Y1049	A989	T928							



H2788	P2789	M2790	L2791	R2792	R2793	V2794	K2795	T2796	R2797	S2798	R2799	K2800	D2801	K2802	E2803	L2804	V2805	R2806	W2807	P2808	L2809	K2810	E2811	S2812	L2813	K2814	A2815	M2816	L2817	A2818	W2819	E2820	W2821	L2822	L2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLU	GLU	ARG	THR	GLU	LYS	LYS	LYS	GLU	PRO	GLU	GLU	LEU	PRO	ALA	GLU	E2088	W2089	K2090	P2091	Q2092	S2093	L2094	Q2095	E2096	L2097	W2098	S2099	R2104	W2105	A2106	E2174	E2175	N2176	L2177	R2178	I2179	Q2180	S2181	L2182	L2185	L2186	L2187	N2188	K2189	V2190	F2191	Y2192	Q2193	H2194	P2195	L2196	L2197	R2198	L2199	A2200	S2201	G2202	M2203	H2204	M2208	V2212	N2213	V2214	L2215	G2216	G2217	G2218	D2219	L2220	K2221	E2222	L2223	R2224	F2225	P2226	K2227	M2228	V2229	T2230	S2231	G2232	C2233	R2234	F2235	L2236	G2237	Y2238	F2239	K2240	R2241	L2242	S2243	R2244	Q2245	N2246	Q2247	R2248	S2249	M2250	F2251	D2252	S2255	Y2256	E2259	N2260	S2261	Q2262	L2263	G2264	L2265	G2266	M2267	Q2268	E2269	S2270	T2271	P2272	L2273	D2274	A2275	A2276	A2277	A2278	S2279	V2280	L2281	D2282	N2283	L2286	A2287	L2288	A2289	L2290	Q2291	E2292	D2293	Q2294	L2295	E2296	K2297	V2298	G2299	S2300	Y2301	L2302	A2303	G2304	C2305	G2306	L2307	Q2308	S2309	C2310	P2311	M2312	L2313	L2314	A2315	K2316	G2317	Y2318	P2319	D2320	L2321	G2322	N2323	P2325	C2326	G2327	G2328	E2329	R2330	Y2331	L2332	F2334	L2335	R2336	F2337	A2338	V2339	F2340	V2341	N2342	S2345	V2346	E2347	E2348	N2349	L2350	N2350	V2352	V2353	V2354	R2355	L2356	L2357	I2358	R2359	K2360	P2361	E2362	C2363	F2364	G2365	P2366	A2367	L2368	R2369	G2370	E2371	G2372	G2373	S2374	L2375	L2376	L2377	A2378	A2379	M2400	H2401	L2402	G2403	R2404	C2406	A2407	P2408	E2409	A2430	D2431	L2432	L2433	L2434	R2435	C2436	A2437	P2438	E2439	M2440	H2441	L2442	L2443	Q2444	A2445	G2446	K2447	G2448	E2449	A2450	L2451	R2452	L2453	A2455	L2456	L2457	R2458	S2459	L2460	V2461	P2462	L2463	D2464	D2465	L2466	V2467	G2468	I2469	L2470	S2471	L2472	P2473	L2474	Q2475	N2414	R2415	V2416	H2417	L2418	G2419	H2420	K2481	D2482	G2483	A2484	F2425	T2426	A2427	G2428	L2429	D2430	L2431	L2432	L2433	G2434	R2435	C2436	A2437	P2438	E2439	M2440	H2441	L2442	L2443	Q2444	A2445	G2446	K2447	G2448	E2449	A2450	L2451	R2452	L2453	A2455	L2456	L2457	R2458	S2459	L2460	V2461	P2462	L2463	D2464	D2465	L2466	V2467	G2468	I2469	L2470	S2471	L2472	P2473	L2474	Q2475	N2414	R2415	V2416	H2417	L2418	G2419	H2420	K2421	L2422	R2423	A2424	F2425	T2426	Q2487	P2488	K2489	M2490	S2491	A2492	S2493	F2494	V2495	P2496	D2497	H2498	K2499	A2500	L2501	M2502	V2503	L2504	L2505	L2506	D2507	G2508	R2509	V2509	Y2510	G2511	L2512	E2513	N2514	Q2515	D2516	F2517	L2518	L2519	H2520	V2521	L2522	D2523	V2524	G2525	F2526	L2527	P2528	D2529	M2530	R2531	A2532	E2533	A2534	S2535	L2536	D2537	T2538	A2539	T2540	F2541	S2542	T2543	T2544	E2545	M2546	A2547	L2548	A2549	L2550	M2551	R2552	Y2553	L2554	C2555	L2556	A2557	V2558	L2559	P2560	L2561	T2562	T2563	K2564	C2565	A2566	P2567	L2568	F2569	A2570	G2571	T2572	E2573	H2574	R2575	A2576	I2577	M2578	V2579	D2580	S2581	M2582	L2583	H2584	T2585	V2586	Y2587	R2588	L2589	S2590	R2591	G2592	R2593	S2594	L2595	A2598	Q2599	R2600	D2601	V2602	L2603	E2604	A2662	M2663	F2664	G2665	V2666	T2667	S2668	E2669	E2670	E2671	L2672	H2673	L2674	T2675	R2676	L2677	L2678	F2679	W2680	G2681	L2682	F2683	D2684	S2685	L2686	A2687	H2688	K2689	K2690	L2691	Y2691	D2692	Q2693	E2694	L2695	Y2696	R2697	M2698	A2699	M2700	P2701	C2702	L2703	T2704	A2705	L2706	L2707	A2708	G2709	L2710	P2711	P2712	D2713	Y2714	V2715	D2716	A2717	S2718	Y2719	S2720	S2721	K2722	E2723	L2724	E2725	K2726	L2727	K2728	L2729	K2730	L2731	L2732	L2733	L2734	F2735	D2736	P2737	R2738	P2739	V2740	E2741	T2742	L2743	N2744	T2745	I2746	I2747	T2748	E2749	K2750	L2751	D2752	S2753	F2754	I2755	T2756	K2757	F2758	A2759	T2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	F2768	D2769	K2770	I2771	Q2772	Q2773	N2774	W2775	S2776	T2777	G2778	E2779	N2780	V2781	D2782	E2783	E2784	L2785	K2786	T2787	LYS	ALA	H2788	P2789	M2790	L2791	R2792	R2793	V2794	K2795	T2796	R2797	S2798	R2799	K2800	D2801	K2802	E2803	L2804	V2805	R2806	W2807	P2808	L2809	K2810	E2811	S2812	L2813	K2814	A2815	M2816	L2817	A2818	W2819	E2820	W2821	L2822	L2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLU	GLU	ARG	THR	GLU	LYS	LYS	LYS	THR	LYS	LYS	THR	ARG	LYS	ILE	SER	GLN	THR	ALA	GLN
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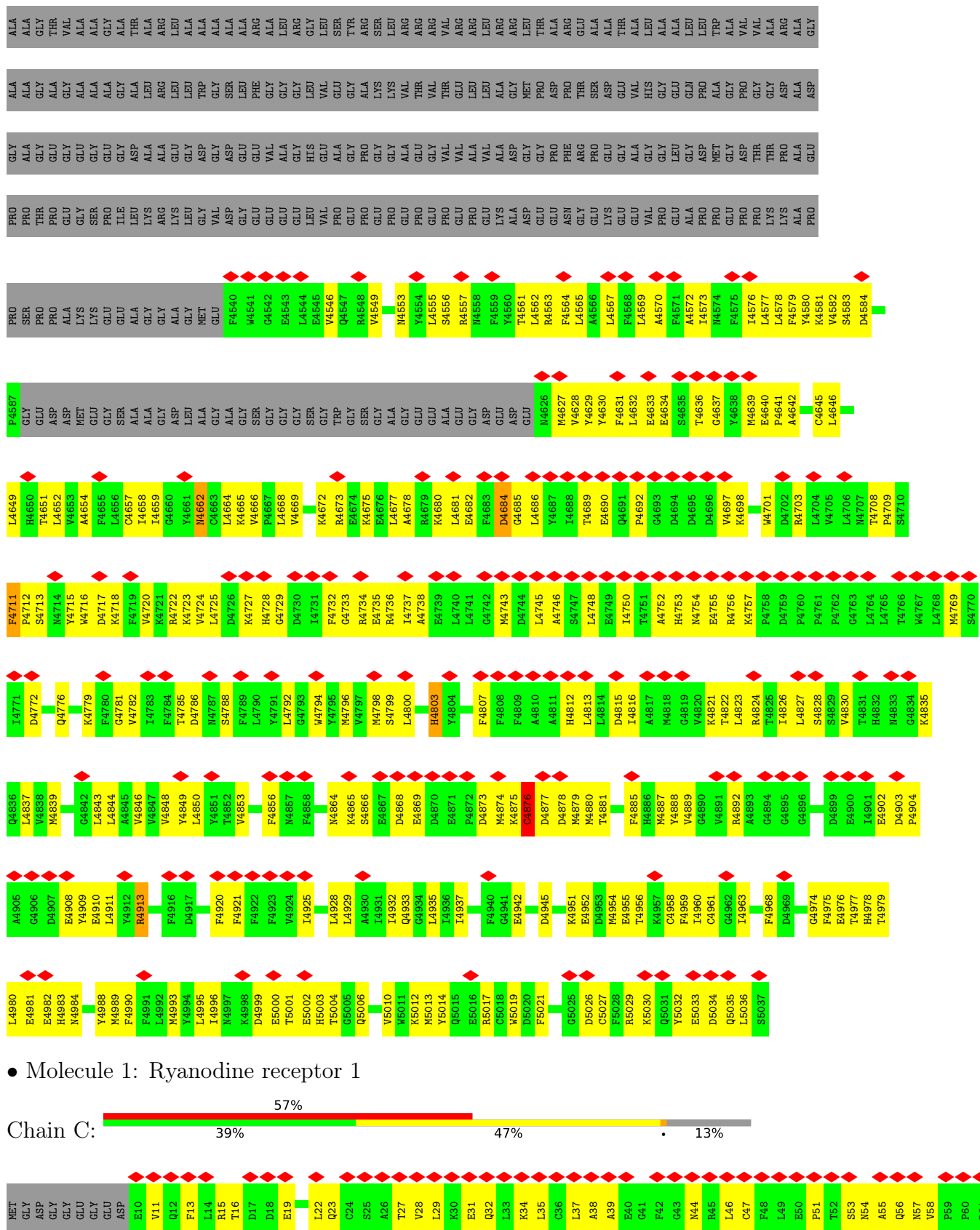
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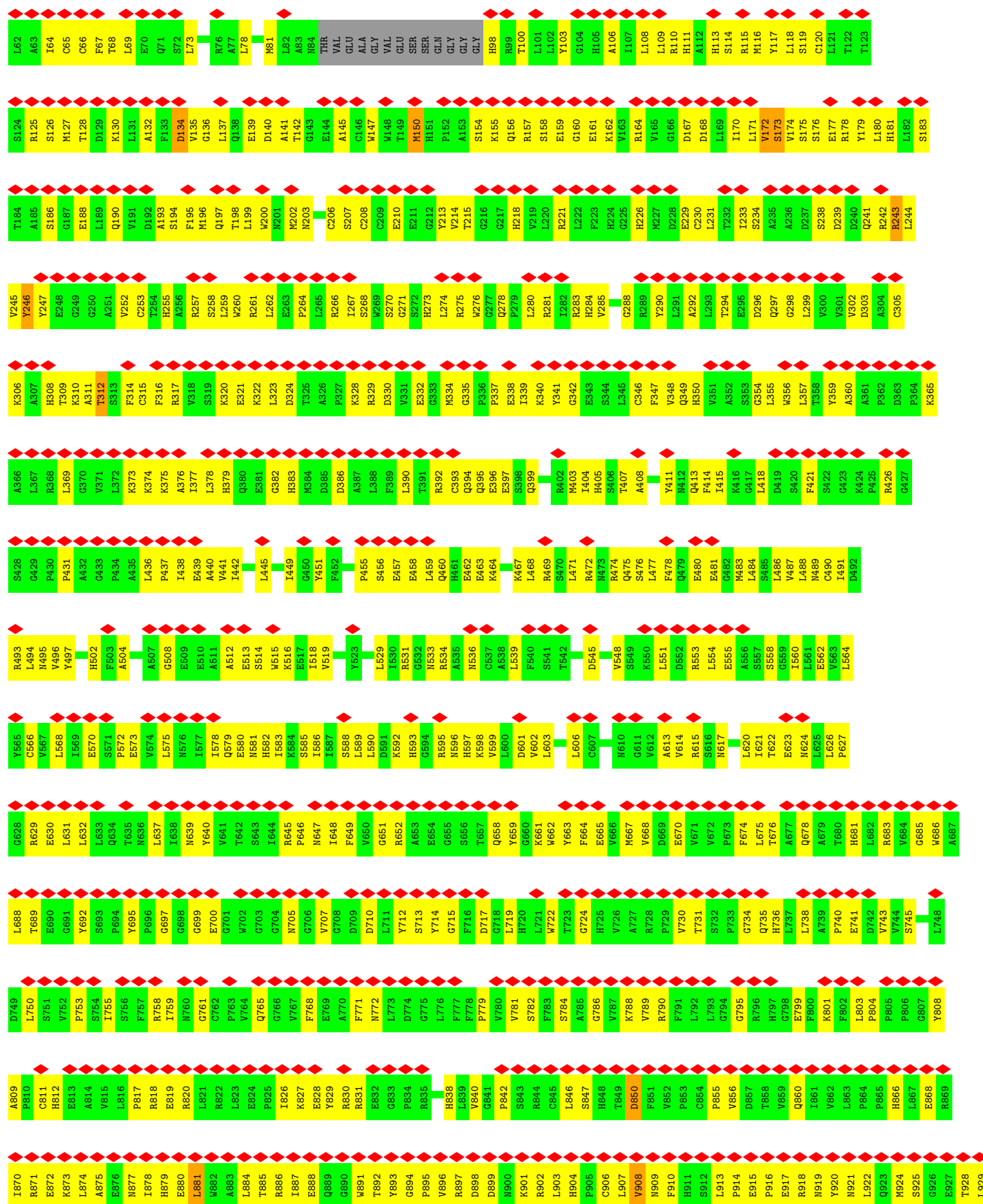
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	S1732	Y1670	P1608	K1547	L1487	I1426	ALA	GLY	P1247	E1183	V1123	V1063
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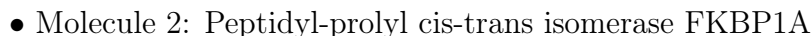


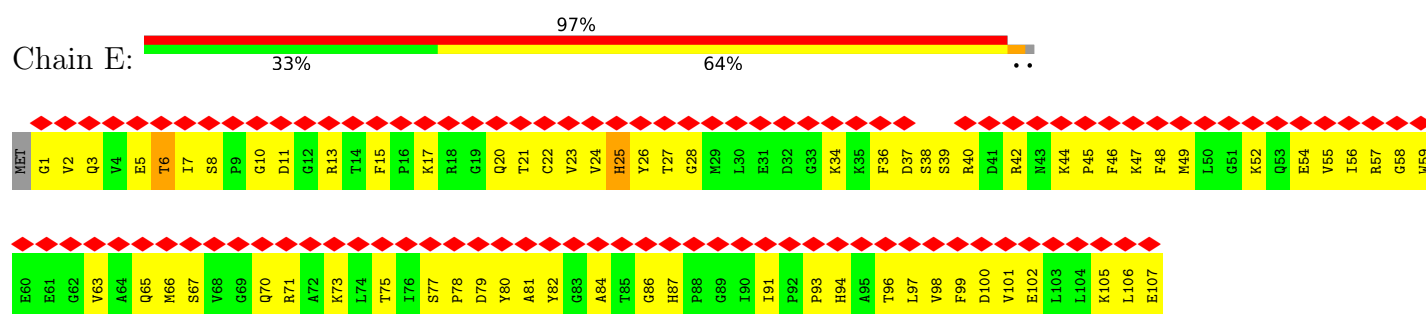
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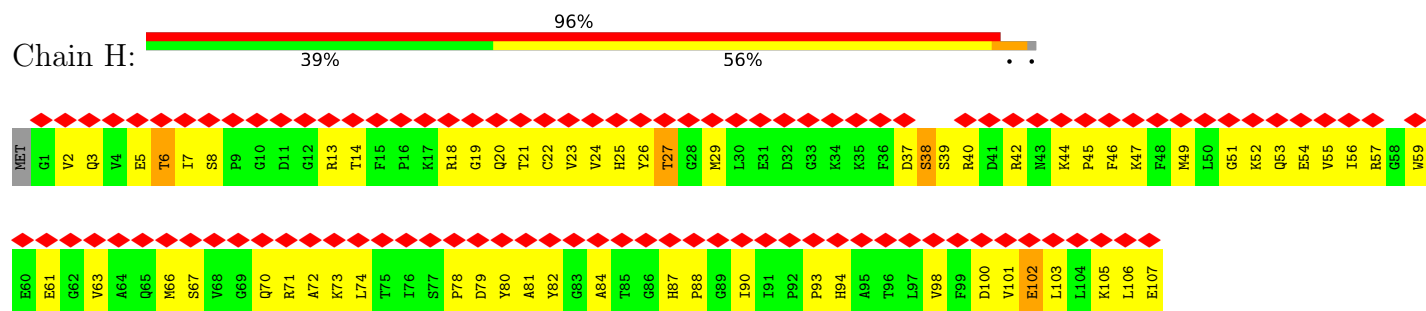


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T3881	Q3882	F3885	F3886	F3887	F3888	Q3889	L3890	L3891	C3892	E3893	G3894	H3895	H3896	N3897	D3898	F3899	Q3900	N3901	Y3902	L3903	R3904	T3905	Q3906	T3910	T3911	T3912	N3913	N3914	I3915	I3916	I3917	T3918	V3919	D3920	Y3921	Y3922	L3923	L3924	R3925	L3926	Q3927	E3928	S3929	D3932	F3933	Y3934	K3935	Y3936	Y3937	S3938	G3939	K3940	D3941	Y3942	I3943				
Q3946	G3947	K3948	R3949	N3950	F3951	K3952	K3953	A3954	M3955	V3956	K3958	K3959	L3965	T3966	E3967	V3968	T3969	Q3970	G3971	C3972	N3973	L3974	Q3975	L3976	L3977	L3978	L3979	L3980	A3981	H3982	S3983	R3984	R3985	V3986	Q3987	A3988	V3989	G3990	G3991	F3992	L3993	H3994	V3995	F3996	A3997	H3998	M3999	M4000	M4001	K4002	L4003	A4004	Q4005	D4006	S4007	S4008	Q4009	I4010	E4011
L4012	E4015	L4016	L4017	D4018	L4019	M4023	V4024	V4025	M4026	L4027	L4028	S4029	L4030	L4031	E4032	V4036	M4037	G4038	M4039	I4040	A4041	R4042	Q4043	M4044	V4045	D4046	M4047	L4048	V4049	E4050	S4053	E4056	L4059	K4060	F4061	F4062	D4063	M4064	F4065	L4066	K4067	L4068	K4069	D4070	I4071	V4072	G4073	S4074	E4075	A4076	F4077	Q4078	D4079						
K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	V3400	L3401	C3402	R3403	D3404	L3405	Y3406	A3407	L3408	Y3409	P3410	L3411	L3412	I3413	R3414	Y3415	V3416	D3417	N3418	N3419	R3420	A3421	H3422	W3423	L3424	T3425	E3426	P3427	N3428	A3429	N3430	A3431	E3432	E3433	L3434	F3435	R3436	M3437	V3438	E3439	E3440	I3441	F3442	I3443
Y3444	W3445	S3446	K3447	S3448	H3449	N3450	F3451	K3452	R3453	E3454	E3455	K3456	N3457	F3458	V3459	V3460	Q3461	N3462	E3463	I3464	N3465	N3466	M3467	S3468	F3469	L3470	T3471	A3472	D3473	S3474	K3475	K3477	M3478	A3479	LYS	ALA	GLY	ASP	ALA	GLN	SER	GLY	GLY	SER	ASP	GLN	GLU	A3429	THR	ARG	LYS	LYS	LYS	R3498	R3499	G3500	D3501	R3502	Y3503
S3504	V3505	Q3506	T3507	S3508	L3509	T3510	V3511	Q3512	T3513	L3514	K3515	K3516	N3517	L3518	P3519	L3520	G3521	L3522	N3523	M3524	A3525	A3526	P3527	T3528	D3529	Q3530	D3531	L3532	L3533	M3534	L3535	A3536	K3537	T3538	R3539	Y3540	A3541	L3542	K3543	D3544	T3545	D3546	E3547	E3548	V3549	R3550	E3551	F3552	L3553	Q3554	N3555	N3556	L3557	H3558	L3559	Q3560	K3562	V3563	
E3564	G3565	S3566	P3567	S3568	L3569	R3570	W3571	Q3572	M3573	A3574	L3575	Y3576	R3577	G3578	L3579	P3580	Q3581	R3582	E3583	E3584	D3585	A3586	D3587	S3588	P3589	K3590	K3591	I3592	R3593	R3594	R3595	V3596	Q3597	E3598	V3599	S3600	A3601	V3602	L3603	Y3604	H3605	L3606	E3607	Q3608	T3609	E3610	H3611	P3612	Y3613	K3614	K3615	K3616	K3617	A3618	V3619	W3620	H3621	K3622	L3623
L3624	S3625	K3626	Q3627	R3628	R3629	K3630	A3631	V3632	V3633	A3634	C3635	F3636	R3637	M3638	T3639	P3640	L3641	Y3642	N3643	L3644	H3647	K3648	L3649	K3650	N3651	K3652	F3653	L3654	E3655	K3658	W3661	T3662	L3663	T3664	E3665	D3666	H3667	S3668	F3669	E3670	D3671	K3672	K3673	T3674	D3675	L3676	K3679	V3680	C3681	E3682	Q3683	Q3684	E3685	E3686	E3687				
E3688	E3689	V3690	E3691	E3692	K3693	K3694	P3695	L3698	L3701	V3702	L3703	H3704	R3707	L3710	T3711	K3712	K3713	S3714	K3715	L3716	D3717	S3718	D3719	K3720	L3721	Y3722	L3723	A3724	Y3725	I3728	M3729	A3730	K3731	S3732	C3733	H3734	L3735	E3736	GLU	GLY	GLY	GLU	ASN	GLY	GLU	GLU	ALA	GLU	GLU	K3679	V3749	E3750	V3751	S3752					
F3753	E3754	E3755	K3756	E3757	M3758	E3759	K3760	Q3761	L3763	Q3766	Q3767	S3768	L3769	L3770	H3771	T3772	R3773	G3774	A3775	A3776	E3777	M3778	V3779	L3780	K3781	S3782	L3783	S3784	A3785	C3786	K3787	G3788	E3789	T3790	M3793	S3796	T3797	L3798	K3799	L3800	G3801	L3802	L3803	L3804	L3805	N3806	G3807	G3808	E3811	V3812	Q3813	Q3814	K3815	M3816					
Y3819	L3820	K3821	D3822	D3823	K3824	E3825	V3826	G3827	F3828	F3829	Q3830	S3831	L3832	Q3833	A3834	L3835	K3836	Q3837	T3838	C3839	S3840	V3841	L3842	D3843	L3844	F3847	N3848	R3849	Q3850	E3854	G3855	L3856	G3857	M3858	V3859	N3860	E3861	D3862	G3863	T3864	V3865	L3866	N3867	R3868	Q3869	N3870	G3871	E3872	K3873	V3874	M3875	A3876	D3877	E3878	F3880				
T3881	Q3882	F3885	F3886	F3887	F3888	Q3889	L3890	L3891	C3892	E3893	G3894	H3895	H3896	N3897	D3898	F3899	Q3900	N3901	Y3902	L3903	R3904	T3905	Q3906	T3910	T3911	T3912	N3913	N3914	I3915	I3916	I3917	T3918	V3919	D3920	Y3921	Y3922	L3923	L3924	R3925	L3926	Q3927	E3928	S3929	D3932	F3933	Y3934	K3935	Y3936	Y3937	S3938	G3939	K3940	D3941	Y3942	I3943				
Q3946	G3947	K3948	R3949	N3950	F3951	K3952	K3953	A3954	M3955	V3956	K3958	K3959	L3965	T3966	E3967	V3968	T3969	Q3970	G3971	C3972	N3973	L3974	Q3975	L3976	L3977	L3978	L3979	L3980	A3981	H3982	S3983	R3984	R3985	V3986	Q3987	A3988	V3989	G3990	G3991	F3992	L3993	H3994	V3995	F3996	A3997	H3998	M3999	M4000	M4001	K4002	L4003	A4004	Q4005	D4006	S4007	S4008	Q4009	I4010	E4011
L4012	E4015	L4016	L4017	D4018	L4019	M4023	V4024	V4025	M4026	L4027	L4028	S4029	L4030	L4031	E4032	V4036	M4037	G4038	M4039	I4040	A4041	R4042	Q4043	M4044	V4045	D4046	M4047	L4048	V4049	E4050	S4053	E4056	L4059	K4060	F4061	F4062	D4063	M4064	F4065	L4066	K4067	L4068	K4069	D4070	I4071	V4072	G4073	S4074	E4075	A4076	F4077	Q4078	D4079						

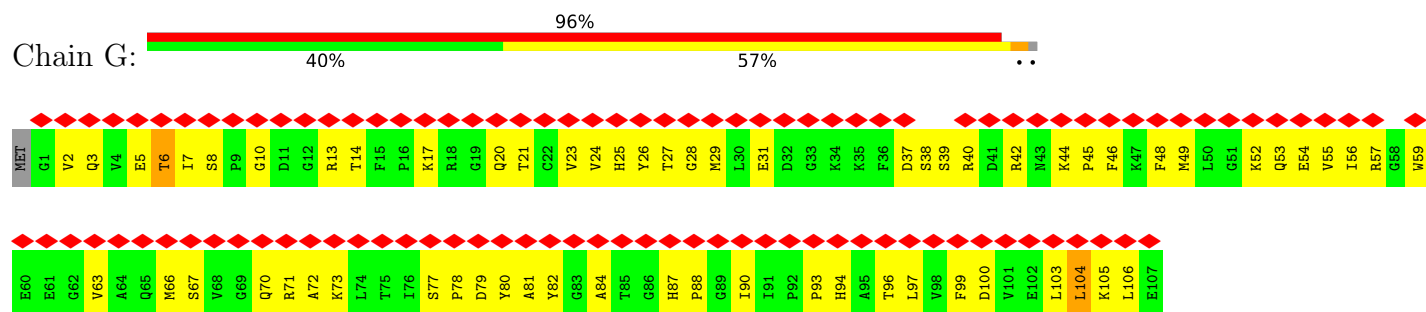




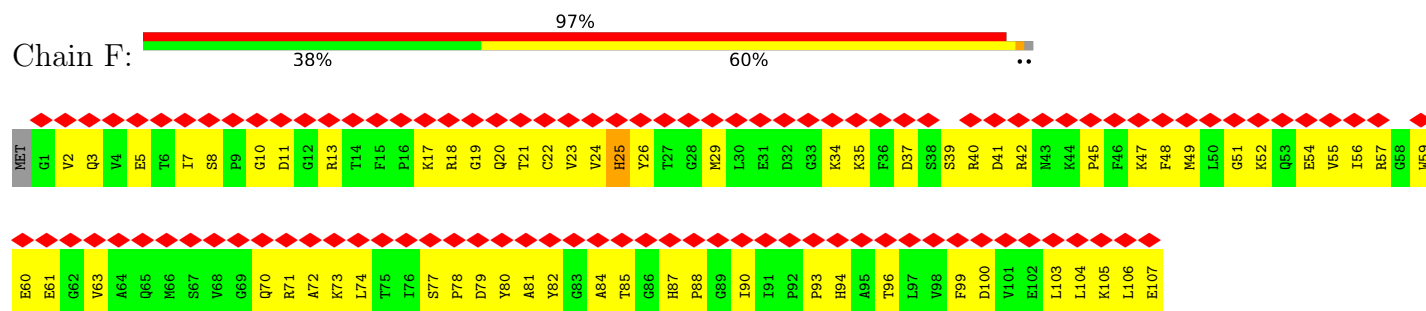
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



• 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	17284	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	0.224	Depositor
Minimum map value	-0.085	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.015	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	427.008, 427.008, 427.008	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.834, 0.834, 0.834	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, ZN, A1BD2, 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	0.19	0/35977	0.51	6/48726 (0.0%)
1	B	0.20	0/35977	0.51	6/48726 (0.0%)
1	C	0.20	0/35977	0.51	6/48726 (0.0%)
1	D	0.20	0/35977	0.51	6/48726 (0.0%)
2	E	0.21	0/850	0.60	0/1146
2	F	0.20	0/850	0.57	0/1146
2	G	0.18	0/850	0.51	0/1146
2	H	0.19	0/850	0.59	0/1146
All	All	0.20	0/147308	0.51	24/199488 (0.0%)

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

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

There are no bond length outliers.

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4876	CYS	CA-CB-SG	7.38	131.37	114.40
1	A	4876	CYS	CA-CB-SG	7.37	131.34	114.40
1	B	4876	CYS	CA-CB-SG	7.35	131.31	114.40
1	D	4876	CYS	CA-CB-SG	7.35	131.30	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2481	LYS	CA-C-N	7.10	135.10	121.54
1	D	2481	LYS	C-N-CA	7.10	135.10	121.54
1	C	2481	LYS	CA-C-N	7.09	135.08	121.54
1	C	2481	LYS	C-N-CA	7.09	135.08	121.54
1	A	2481	LYS	CA-C-N	7.08	135.07	121.54
1	A	2481	LYS	C-N-CA	7.08	135.07	121.54
1	B	2481	LYS	CA-C-N	7.07	135.04	121.54
1	B	2481	LYS	C-N-CA	7.07	135.04	121.54
1	A	3753	PHE	N-CA-C	-6.11	104.53	111.07
1	D	3753	PHE	N-CA-C	-6.07	104.57	111.07
1	B	3753	PHE	N-CA-C	-6.05	104.60	111.07
1	C	3753	PHE	N-CA-C	-6.05	104.60	111.07
1	D	2582	MET	CA-CB-CG	5.45	125.00	114.10
1	A	2582	MET	CA-CB-CG	5.45	124.99	114.10
1	B	2582	MET	CA-CB-CG	5.44	124.98	114.10
1	C	2582	MET	CA-CB-CG	5.43	124.97	114.10
1	B	4245	MET	CB-CG-SD	5.21	128.32	112.70
1	C	4245	MET	CB-CG-SD	5.20	128.31	112.70
1	A	4245	MET	CB-CG-SD	5.20	128.30	112.70
1	D	4245	MET	CB-CG-SD	5.20	128.30	112.70

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1671	ARG	Sidechain
1	A	4876	CYS	Peptide
1	B	1671	ARG	Sidechain
1	B	4876	CYS	Peptide
1	C	1671	ARG	Sidechain
1	C	4876	CYS	Peptide
1	D	1671	ARG	Sidechain
1	D	4876	CYS	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	35150	0	34793	2264	0
1	B	35150	0	34793	2262	0
1	C	35150	0	34793	2299	0
1	D	35150	0	34793	2289	0
2	E	831	0	831	73	0
2	F	831	0	830	68	0
2	G	831	0	831	76	0
2	H	831	0	831	81	0
3	A	31	0	12	1	0
3	B	31	0	12	2	0
3	C	31	0	12	2	0
3	D	31	0	12	2	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	18	0	0	1	0
6	B	18	0	0	1	0
6	C	18	0	0	1	0
6	D	18	0	0	1	0
All	All	144128	0	142543	9179	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 32.

All (9179) 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)
2:F:40:ARG:NH2	1:B:674:PHE:CE2	1.90	1.19
1:D:1220:GLN:HB3	1:C:3522:LEU:HD13	1.12	1.12
1:A:3522:LEU:HD13	1:B:1220:GLN:HB3	1.09	1.07
1:B:3522:LEU:HD13	1:C:1220:GLN:HB3	1.11	1.07
1:A:1220:GLN:HB3	1:D:3522:LEU:HD13	1.06	1.06
1:D:2423:MET:HE1	1:D:2494:PHE:HA	1.40	1.04
1:A:2423:MET:HE1	1:A:2494:PHE:HA	1.40	1.03
1:B:2423:MET:HE1	1:B:2494:PHE:HA	1.40	1.03
1:C:2423:MET:HE1	1:C:2494:PHE:HA	1.40	1.02
1:A:1208:VAL:HG21	1:D:3575:LEU:HD21	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1208:VAL:HG21	1:C:3575:LEU:HD21	1.42	1.01
1:A:1220:GLN:OE1	1:D:3522:LEU:C	2.02	1.00
1:D:1220:GLN:OE1	1:C:3522:LEU:C	2.05	1.00
1:A:4958:CYS:SG	1:A:4961:CYS:HB2	2.03	0.98
1:D:4958:CYS:SG	1:D:4961:CYS:HB2	2.03	0.98
1:C:4958:CYS:SG	1:C:4961:CYS:HB2	2.03	0.98
1:B:4958:CYS:SG	1:B:4961:CYS:HB2	2.03	0.97
2:F:40:ARG:NH2	1:B:674:PHE:CD2	2.32	0.96
1:B:3575:LEU:HD21	1:C:1208:VAL:HG21	1.47	0.96
1:B:3522:LEU:C	1:C:1220:GLN:OE1	2.09	0.95
1:A:1220:GLN:CB	1:D:3522:LEU:HD13	1.96	0.94
1:A:3522:LEU:C	1:B:1220:GLN:OE1	2.11	0.93
1:A:3575:LEU:HD21	1:B:1208:VAL:HG21	1.50	0.93
1:B:2175:GLU:HB2	1:B:2228:MET:HE1	1.50	0.93
1:A:3522:LEU:HD13	1:B:1220:GLN:CB	1.99	0.93
1:C:2175:GLU:HB2	1:C:2228:MET:HE1	1.50	0.93
2:H:88:PRO:HB2	1:D:623:GLU:OE2	1.69	0.93
1:A:2175:GLU:HB2	1:A:2228:MET:HE1	1.50	0.92
1:D:2175:GLU:HB2	1:D:2228:MET:HE1	1.50	0.91
2:H:7:ILE:HD13	2:H:71:ARG:HE	1.36	0.91
2:F:40:ARG:NH2	1:B:674:PHE:HE2	1.44	0.91
1:B:3522:LEU:HD13	1:C:1220:GLN:CB	2.01	0.90
2:G:66:MET:HE3	2:G:70:GLN:HG2	1.54	0.90
2:F:40:ARG:HH22	1:B:674:PHE:HE2	0.93	0.89
1:B:3333:THR:HA	1:B:3336:LYS:HE3	1.57	0.86
2:H:7:ILE:CG1	1:D:719:LEU:HD21	2.05	0.86
1:D:3333:THR:HA	1:D:3336:LYS:HE3	1.57	0.86
1:D:975:VAL:HB	1:D:1044:ARG:HH22	1.41	0.85
1:B:975:VAL:HB	1:B:1044:ARG:HH22	1.41	0.85
1:A:975:VAL:HB	1:A:1044:ARG:HH22	1.41	0.85
1:A:3875:MET:HB3	1:A:3878:ASP:HB3	1.58	0.85
1:C:975:VAL:HB	1:C:1044:ARG:HH22	1.42	0.85
1:A:3333:THR:HA	1:A:3336:LYS:HE3	1.57	0.84
1:C:1230:MET:SD	1:C:1827:ARG:NH2	2.50	0.84
1:C:3875:MET:HB3	1:C:3878:ASP:HB3	1.58	0.84
1:C:3333:THR:HA	1:C:3336:LYS:HE3	1.57	0.84
1:B:3875:MET:HB3	1:B:3878:ASP:HB3	1.58	0.84
1:B:1230:MET:SD	1:B:1827:ARG:NH2	2.50	0.84
1:A:1230:MET:SD	1:A:1827:ARG:NH2	2.50	0.84
1:A:2998:PHE:HA	1:A:3002:LEU:HB2	1.60	0.84
1:A:3522:LEU:HB3	1:B:1220:GLN:OE1	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:7:ILE:HG13	1:D:719:LEU:HD21	1.59	0.84
1:B:875:ALA:O	1:B:879:HIS:ND1	2.11	0.83
1:D:1220:GLN:CB	1:C:3522:LEU:HD13	2.02	0.83
1:D:1230:MET:SD	1:D:1827:ARG:NH2	2.50	0.83
1:D:2998:PHE:HA	1:D:3002:LEU:HB2	1.60	0.83
1:D:3527:PRO:HD2	1:D:3573:MET:HE1	1.60	0.83
1:C:875:ALA:O	1:C:879:HIS:ND1	2.11	0.83
1:C:2998:PHE:HA	1:C:3002:LEU:HB2	1.60	0.83
1:A:116:MET:HG2	1:A:137:LEU:HB3	1.61	0.83
1:D:1141:ARG:HH12	1:C:3478:MET:HE3	1.43	0.83
1:D:3875:MET:HB3	1:D:3878:ASP:HB3	1.58	0.83
1:A:1141:ARG:HH12	1:D:3478:MET:HE3	1.42	0.83
1:B:116:MET:HG2	1:B:137:LEU:HB3	1.61	0.83
1:C:116:MET:HG2	1:C:137:LEU:HB3	1.61	0.83
1:A:3106:MET:HE1	1:A:3129:LEU:HA	1.60	0.83
1:D:3106:MET:HE1	1:D:3129:LEU:HA	1.60	0.83
1:B:2998:PHE:HA	1:B:3002:LEU:HB2	1.60	0.83
1:C:3924:LEU:HA	1:C:3927:GLN:HE21	1.44	0.83
1:A:2233:CYS:SG	1:A:2270:SER:OG	2.38	0.82
1:A:4177:TYR:HA	1:A:4202:ARG:HH12	1.44	0.82
1:D:116:MET:HG2	1:D:137:LEU:HB3	1.61	0.82
1:D:875:ALA:O	1:D:879:HIS:ND1	2.11	0.82
1:A:3924:LEU:HA	1:A:3927:GLN:HE21	1.44	0.82
1:B:3924:LEU:HA	1:B:3927:GLN:HE21	1.44	0.82
1:A:3478:MET:HE2	1:B:1141:ARG:HH22	1.42	0.82
1:D:2233:CYS:SG	1:D:2270:SER:OG	2.38	0.82
1:D:3924:LEU:HA	1:D:3927:GLN:HE21	1.44	0.82
1:A:3527:PRO:HD2	1:A:3573:MET:HE1	1.60	0.82
1:D:1141:ARG:HH22	1:C:3478:MET:HE2	1.43	0.82
1:C:4177:TYR:HA	1:C:4202:ARG:HH12	1.44	0.82
1:B:3527:PRO:HD2	1:B:3573:MET:HE1	1.60	0.82
1:A:1208:VAL:HG21	1:D:3575:LEU:CD2	2.10	0.81
1:B:3782:MET:HE2	1:B:3797:THR:HB	1.62	0.81
2:G:40:ARG:NH1	1:C:674:PHE:CE2	2.47	0.81
1:B:3478:MET:HE2	1:C:1141:ARG:HH22	1.42	0.81
1:D:4177:TYR:HA	1:D:4202:ARG:HH12	1.44	0.81
1:A:1152:MET:HB3	1:A:1161:ILE:HB	1.63	0.81
1:B:4177:TYR:HA	1:B:4202:ARG:HH12	1.44	0.81
1:A:1141:ARG:HH22	1:D:3478:MET:HE2	1.44	0.81
1:A:3782:MET:HE2	1:A:3797:THR:HB	1.62	0.81
1:B:1152:MET:HB3	1:B:1161:ILE:HB	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:855:PRO:HG3	1:B:998:ARG:HD3	1.63	0.81
1:C:150:MET:N	1:C:150:MET:SD	2.54	0.81
1:A:150:MET:SD	1:A:150:MET:N	2.54	0.81
1:D:1152:MET:HB3	1:D:1161:ILE:HB	1.63	0.80
1:C:3106:MET:HE1	1:C:3129:LEU:HA	1.60	0.80
1:C:3527:PRO:HD2	1:C:3573:MET:HE1	1.60	0.80
2:H:49:MET:HG3	2:H:52:LYS:HB2	1.61	0.80
1:B:3106:MET:HE1	1:B:3129:LEU:HA	1.60	0.80
1:C:3782:MET:HE2	1:C:3797:THR:HB	1.63	0.80
1:A:855:PRO:HG3	1:A:998:ARG:HD3	1.63	0.80
1:D:150:MET:N	1:D:150:MET:SD	2.54	0.80
1:C:2233:CYS:SG	1:C:2270:SER:OG	2.38	0.80
1:B:150:MET:N	1:B:150:MET:SD	2.54	0.80
1:C:855:PRO:HG3	1:C:998:ARG:HD3	1.63	0.80
1:D:1220:GLN:HG3	1:C:3519:PRO:HA	1.63	0.80
1:A:1220:GLN:HG3	1:D:3519:PRO:HA	1.63	0.80
1:A:3519:PRO:HA	1:B:1220:GLN:HG3	1.64	0.80
1:C:1152:MET:HB3	1:C:1161:ILE:HB	1.63	0.80
1:D:3782:MET:HE2	1:D:3797:THR:HB	1.62	0.80
1:B:2233:CYS:SG	1:B:2270:SER:OG	2.38	0.79
1:B:2452:ARG:NH1	1:C:175:SER:HA	1.97	0.79
1:D:2386:ILE:HA	1:D:2392:ARG:HH21	1.48	0.79
1:C:2768:PHE:HA	1:C:2771:ILE:HD12	1.64	0.79
2:G:7:ILE:CG1	1:C:719:LEU:HD21	2.11	0.79
1:A:2781:VAL:HG23	1:A:2789:PRO:HD3	1.65	0.79
2:E:7:ILE:HB	2:E:71:ARG:HG2	1.63	0.79
2:E:73:LYS:HZ1	2:E:75:THR:HG23	1.46	0.79
1:A:483:MET:N	1:A:483:MET:SD	2.56	0.79
1:B:3519:PRO:HA	1:C:1220:GLN:HG3	1.63	0.79
1:A:875:ALA:O	1:A:879:HIS:ND1	2.11	0.79
1:B:3146:HIS:HD2	1:B:3147:ILE:HD12	1.48	0.79
1:A:2570:ALA:HB2	1:A:2613:TYR:HB3	1.65	0.79
1:B:483:MET:N	1:B:483:MET:SD	2.56	0.79
1:D:855:PRO:HG3	1:D:998:ARG:HD3	1.63	0.79
1:D:1208:VAL:HG21	1:C:3575:LEU:CD2	2.13	0.79
1:C:2570:ALA:HB2	1:C:2613:TYR:HB3	1.65	0.79
1:A:3146:HIS:HD2	1:A:3147:ILE:HD12	1.48	0.79
1:A:2470:ILE:HG13	1:A:2525:GLY:HA3	1.64	0.78
2:E:21:THR:HG22	2:E:49:MET:HB2	1.64	0.78
1:A:2386:ILE:HA	1:A:2392:ARG:HH21	1.48	0.78
1:D:3146:HIS:HD2	1:D:3147:ILE:HD12	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1220:GLN:OE1	1:D:3522:LEU:HB3	1.83	0.78
1:A:2768:PHE:HA	1:A:2771:ILE:HD12	1.64	0.78
1:D:483:MET:N	1:D:483:MET:SD	2.56	0.78
1:D:2781:VAL:HG23	1:D:2789:PRO:HD3	1.65	0.78
1:C:483:MET:SD	1:C:483:MET:N	2.56	0.78
1:B:2470:ILE:HG13	1:B:2525:GLY:HA3	1.64	0.78
1:B:2570:ALA:HB2	1:B:2613:TYR:HB3	1.65	0.78
1:B:2781:VAL:HG23	1:B:2789:PRO:HD3	1.65	0.78
1:D:2570:ALA:HB2	1:D:2613:TYR:HB3	1.65	0.78
1:D:3567:PRO:HA	1:D:3570:ARG:HG2	1.65	0.78
1:A:1220:GLN:HB3	1:D:3522:LEU:CD1	2.02	0.78
1:A:3890:LEU:HA	1:A:3893:GLU:HG3	1.66	0.78
2:G:7:ILE:CG1	1:C:719:LEU:CD2	2.62	0.78
1:B:3522:LEU:HB3	1:C:1220:GLN:OE1	1.82	0.78
1:A:4578:LEU:HD12	1:B:4879:MET:HG3	1.66	0.78
1:D:2609:ALA:HA	1:D:2612[B]:ARG:HD3	1.66	0.78
1:C:2781:VAL:HG23	1:C:2789:PRO:HD3	1.65	0.78
1:B:4579:PHE:HA	1:C:4880:MET:HE1	1.64	0.77
1:D:2768:PHE:HA	1:D:2771:ILE:HD12	1.64	0.77
1:C:3890:LEU:HA	1:C:3893:GLU:HG3	1.66	0.77
1:A:3567:PRO:HA	1:A:3570:ARG:HG2	1.65	0.77
1:B:2768:PHE:HA	1:B:2771:ILE:HD12	1.64	0.77
1:A:2609:ALA:HA	1:A:2612[B]:ARG:HD3	1.66	0.77
1:B:2386:ILE:HA	1:B:2392:ARG:HH21	1.48	0.77
1:B:3980:LEU:HB3	1:B:3985:LEU:HD21	1.67	0.77
1:D:2470:ILE:HG13	1:D:2525:GLY:HA3	1.64	0.77
1:A:4579:PHE:HA	1:B:4880:MET:HE1	1.66	0.77
1:C:2470:ILE:HG13	1:C:2525:GLY:HA3	1.64	0.77
1:C:3980:LEU:HB3	1:C:3985:LEU:HD21	1.67	0.77
1:A:3980:LEU:HB3	1:A:3985:LEU:HD21	1.67	0.77
1:D:2806:ARG:O	1:D:2810:LYS:HB2	1.84	0.77
1:C:4241:THR:HG22	1:C:4245:MET:HE1	1.66	0.77
1:A:1106:ARG:HE	1:A:1120:LEU:HB3	1.50	0.77
1:D:3980:LEU:HB3	1:D:3985:LEU:HD21	1.67	0.77
1:C:2386:ILE:HA	1:C:2392:ARG:HH21	1.48	0.77
1:A:2806:ARG:O	1:A:2810:LYS:HB2	1.84	0.77
1:D:4241:THR:HG22	1:D:4245:MET:HE1	1.66	0.77
1:C:1212:ARG:HE	1:C:1213:PHE:H	1.33	0.77
1:A:2265:LEU:O	1:A:2330:ARG:NH1	2.18	0.77
1:B:2609:ALA:HA	1:B:2612[B]:ARG:HD3	1.66	0.77
1:B:2806:ARG:O	1:B:2810:LYS:HB2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3478:MET:HE3	1:C:1141:ARG:HH12	1.49	0.77
1:D:1212:ARG:HE	1:D:1213:PHE:H	1.33	0.77
1:C:162:LYS:O	1:C:164:ARG:NH1	2.18	0.77
1:D:1106:ARG:HE	1:D:1120:LEU:HB3	1.50	0.77
1:A:299:LEU:HD21	1:A:357:LEU:HD13	1.68	0.76
1:A:2189:LYS:HZ3	1:A:2192:TYR:HB2	1.50	0.76
1:B:3890:LEU:HA	1:B:3893:GLU:HG3	1.66	0.76
1:C:2806:ARG:O	1:C:2810:LYS:HB2	1.84	0.76
1:C:3146:HIS:HD2	1:C:3147:ILE:HD12	1.48	0.76
1:B:2265:LEU:O	1:B:2330:ARG:NH1	2.18	0.76
1:B:3567:PRO:HA	1:B:3570:ARG:HG2	1.65	0.76
1:B:4241:THR:HG22	1:B:4245:MET:HE1	1.66	0.76
1:D:299:LEU:HD21	1:D:357:LEU:HD13	1.68	0.76
1:D:162:LYS:O	1:D:164:ARG:NH1	2.18	0.76
1:A:3839:CYS:O	1:A:3925:ARG:NH2	2.19	0.76
2:G:21:THR:HA	2:G:49:MET:HA	1.67	0.76
1:C:3567:PRO:HA	1:C:3570:ARG:HG2	1.65	0.76
1:B:3839:CYS:O	1:B:3925:ARG:NH2	2.19	0.76
1:A:4241:THR:HG22	1:A:4245:MET:HE1	1.66	0.76
1:D:2265:LEU:O	1:D:2330:ARG:NH1	2.18	0.76
1:C:2609:ALA:HA	1:C:2612[B]:ARG:HD3	1.66	0.76
1:B:156:GLN:N	1:B:156:GLN:OE1	2.18	0.76
1:D:156:GLN:OE1	1:D:156:GLN:N	2.18	0.76
1:C:4580:TYR:HD2	1:C:4632:LEU:HB2	1.51	0.76
1:A:162:LYS:O	1:A:164:ARG:NH1	2.18	0.76
1:B:1106:ARG:HE	1:B:1120:LEU:HB3	1.50	0.76
1:D:2862:LEU:HG	1:D:2864:GLY:H	1.51	0.76
1:C:156:GLN:OE1	1:C:156:GLN:N	2.18	0.76
1:A:1671:ARG:NH1	1:A:1717:SER:OG	2.19	0.76
1:A:2423:MET:HE3	1:A:2498:HIS:CE1	2.21	0.76
1:A:4580:TYR:HD2	1:A:4632:LEU:HB2	1.51	0.76
1:D:4879:MET:HG3	1:C:4578:LEU:HD12	1.68	0.76
1:C:1671:ARG:NH1	1:C:1717:SER:OG	2.19	0.76
1:A:156:GLN:OE1	1:A:156:GLN:N	2.18	0.75
1:A:1212:ARG:HE	1:A:1213:PHE:H	1.33	0.75
1:B:299:LEU:HD21	1:B:357:LEU:HD13	1.68	0.75
1:D:2423:MET:HE3	1:D:2498:HIS:CE1	2.21	0.75
1:D:3839:CYS:O	1:D:3925:ARG:NH2	2.19	0.75
1:C:1106:ARG:HE	1:C:1120:LEU:HB3	1.50	0.75
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	1.68	0.75
1:C:3839:CYS:O	1:C:3925:ARG:NH2	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:667:MET:HB3	1:B:790:ARG:HB3	1.68	0.75
1:D:175:SER:HA	1:C:2452:ARG:NH1	2.01	0.75
1:D:4006:ASP:HB3	1:D:4009:GLN:HG3	1.69	0.75
1:A:4006:ASP:HB3	1:A:4009:GLN:HG3	1.69	0.75
1:B:2423:MET:HE3	1:B:2498:HIS:CE1	2.21	0.75
1:D:1141:ARG:HH22	1:C:3478:MET:CE	1.98	0.75
1:C:3146:HIS:HA	1:C:3149:GLN:HE21	1.52	0.75
1:A:175:SER:HA	1:D:2452:ARG:NH1	2.00	0.75
1:B:162:LYS:O	1:B:164:ARG:NH1	2.18	0.75
1:B:4578:LEU:HD12	1:C:4879:MET:HG3	1.68	0.75
1:D:4580:TYR:HD2	1:D:4632:LEU:HB2	1.51	0.75
1:C:2265:LEU:O	1:C:2330:ARG:NH1	2.18	0.75
2:E:23:VAL:HG22	2:E:45:PRO:HB2	1.69	0.75
2:G:7:ILE:HG13	1:C:719:LEU:HD21	1.68	0.75
1:C:667:MET:HB3	1:C:790:ARG:HB3	1.68	0.75
1:B:1671:ARG:NH1	1:B:1717:SER:OG	2.19	0.75
1:D:3392:LEU:HA	1:D:3395:ARG:HE	1.52	0.75
1:C:299:LEU:HD21	1:C:357:LEU:HD13	1.68	0.75
2:F:49:MET:HG3	2:F:52:LYS:HB2	1.69	0.75
1:B:3146:HIS:HA	1:B:3149:GLN:HE21	1.52	0.75
1:D:667:MET:HB3	1:D:790:ARG:HB3	1.68	0.75
1:D:1671:ARG:NH1	1:D:1717:SER:OG	2.19	0.75
1:C:3392:LEU:HA	1:C:3395:ARG:HE	1.52	0.75
1:D:3890:LEU:HA	1:D:3893:GLU:HG3	1.66	0.74
1:A:2862:LEU:HG	1:A:2864:GLY:H	1.51	0.74
1:A:3146:HIS:HA	1:A:3149:GLN:HE21	1.52	0.74
1:B:1212:ARG:HE	1:B:1213:PHE:H	1.33	0.74
1:B:2862:LEU:HG	1:B:2864:GLY:H	1.51	0.74
1:C:2522:LEU:HA	1:C:2526:PHE:HB2	1.68	0.74
1:A:1141:ARG:HH22	1:D:3478:MET:CE	2.00	0.74
1:A:2452:ARG:NH1	1:B:175:SER:HA	2.01	0.74
1:A:4880:MET:HE1	1:D:4579:PHE:HA	1.70	0.74
1:B:3981:ALA:HA	1:B:3986:TRP:HZ2	1.52	0.74
1:B:4006:ASP:HB3	1:B:4009:GLN:HG3	1.69	0.74
1:A:1141:ARG:HH12	1:D:3478:MET:CE	1.99	0.74
1:D:2458:ARG:NH2	1:D:2509:VAL:O	2.21	0.74
1:C:4006:ASP:HB3	1:C:4009:GLN:HG3	1.69	0.74
1:A:667:MET:HB3	1:A:790:ARG:HB3	1.68	0.74
1:A:2522:LEU:HA	1:A:2526:PHE:HB2	1.68	0.74
1:A:2886:TRP:HA	1:A:2889:LYS:HE3	1.70	0.74
1:B:2466:LEU:HB3	1:B:2506:LEU:HD11	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4580:TYR:HD2	1:B:4632:LEU:HB2	1.51	0.74
1:A:4848:VAL:HG11	1:A:4887:MET:HB3	1.70	0.74
1:C:2423:MET:HE3	1:C:2498:HIS:CE1	2.21	0.74
1:A:2884:ASN:O	1:A:2888:ARG:HB2	1.88	0.74
1:C:3981:ALA:HA	1:C:3986:TRP:HZ2	1.52	0.74
1:B:4848:VAL:HG11	1:B:4887:MET:HB3	1.70	0.74
1:D:2884:ASN:O	1:D:2888:ARG:HB2	1.88	0.74
1:D:3146:HIS:HA	1:D:3149:GLN:HE21	1.52	0.74
1:B:2225:PHE:HB3	1:B:2228:MET:HE2	1.70	0.73
1:D:1220:GLN:OE1	1:C:3523:ASN:N	2.21	0.73
1:C:2862:LEU:HG	1:C:2864:GLY:H	1.51	0.73
1:A:3392:LEU:HA	1:A:3395:ARG:HE	1.52	0.73
2:G:23:VAL:HG22	2:G:45:PRO:HB2	1.69	0.73
1:A:3914:ASN:HB3	1:A:3917:ILE:HG12	1.71	0.73
2:F:7:ILE:HG22	1:B:737:LEU:HB2	1.70	0.73
1:C:799:GLU:O	1:C:801:LYS:NZ	2.21	0.73
1:D:758:ARG:HH11	1:D:761:GLY:H	1.36	0.73
1:D:2522:LEU:HA	1:D:2526:PHE:HB2	1.68	0.73
1:C:758:ARG:HH11	1:C:761:GLY:H	1.36	0.73
1:C:2225:PHE:HB3	1:C:2228:MET:HE2	1.70	0.73
1:C:4888:TYR:O	1:C:4892:ARG:NH1	2.22	0.73
1:A:2458:ARG:NH2	1:A:2509:VAL:O	2.21	0.73
1:A:4888:TYR:O	1:A:4892:ARG:NH1	2.22	0.73
1:A:3981:ALA:HA	1:A:3986:TRP:HZ2	1.52	0.73
1:B:2458:ARG:NH2	1:B:2509:VAL:O	2.21	0.73
1:C:426:ARG:NH1	1:C:504:ALA:O	2.22	0.73
1:A:799:GLU:O	1:A:801:LYS:NZ	2.21	0.73
1:B:3504:SER:H	1:B:3507:THR:HG1	1.36	0.73
1:B:3575:LEU:CD2	1:C:1208:VAL:HG21	2.18	0.73
1:D:174:VAL:O	1:C:2452:ARG:NH1	2.22	0.73
1:D:1939:MET:HA	1:D:1942:LEU:HG	1.71	0.73
1:C:3498:ARG:HH12	1:C:3502:ARG:HH11	1.37	0.73
1:A:2225:PHE:HB3	1:A:2228:MET:HE2	1.70	0.73
1:A:2545:GLU:HA	1:A:2548:LEU:HD12	1.71	0.73
1:A:3478:MET:HE3	1:B:1141:ARG:HH12	1.52	0.73
1:B:2578:MET:O	1:B:2578:MET:HE3	1.88	0.73
1:B:3498:ARG:HH12	1:B:3502:ARG:HH11	1.37	0.73
1:D:4888:TYR:O	1:D:4892:ARG:NH1	2.22	0.73
1:A:426:ARG:NH1	1:A:504:ALA:O	2.22	0.73
1:B:3392:LEU:HA	1:B:3395:ARG:HE	1.52	0.73
1:D:799:GLU:O	1:D:801:LYS:NZ	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3914:ASN:HB3	1:D:3917:ILE:HG12	1.71	0.73
1:C:1939:MET:HA	1:C:1942:LEU:HG	1.71	0.73
1:C:2578:MET:O	1:C:2578:MET:HE3	1.88	0.73
1:A:3017:PHE:O	1:A:3036:LYS:NZ	2.21	0.72
1:B:799:GLU:O	1:B:801:LYS:NZ	2.21	0.72
1:D:426:ARG:NH1	1:D:504:ALA:O	2.22	0.72
1:D:2886:TRP:HA	1:D:2889:LYS:HE3	1.70	0.72
1:D:2970:SER:HA	1:D:2973:PHE:CE2	2.24	0.72
1:A:1220:GLN:OE1	1:D:3523:ASN:N	2.21	0.72
1:B:3914:ASN:HB3	1:B:3917:ILE:HG12	1.71	0.72
1:D:1064:GLU:HA	1:D:1071:ARG:HH21	1.54	0.72
1:D:2578:MET:HE3	1:D:2578:MET:O	1.88	0.72
1:D:4848:VAL:HG11	1:D:4887:MET:HB3	1.70	0.72
1:C:2458:ARG:NH2	1:C:2509:VAL:O	2.21	0.72
1:C:3017:PHE:O	1:C:3036:LYS:NZ	2.21	0.72
1:A:2578:MET:HE3	1:A:2578:MET:O	1.88	0.72
1:B:1064:GLU:HA	1:B:1071:ARG:HH21	1.54	0.72
1:B:3478:MET:CE	1:C:1141:ARG:HH22	2.01	0.72
1:B:4888:TYR:O	1:B:4892:ARG:NH1	2.22	0.72
1:D:1999:ARG:NH1	1:D:3635:CYS:SG	2.63	0.72
1:D:2466:LEU:HB3	1:D:2506:LEU:HD11	1.69	0.72
2:F:11:ASP:O	2:F:13:ARG:NH1	2.23	0.72
1:B:1999:ARG:NH1	1:B:3635:CYS:SG	2.63	0.72
1:B:2545:GLU:HA	1:B:2548:LEU:HD12	1.71	0.72
1:D:1220:GLN:OE1	1:C:3522:LEU:HB3	1.87	0.72
1:D:4880:MET:HE1	1:C:4579:PHE:HA	1.71	0.72
1:C:1999:ARG:NH1	1:C:3635:CYS:SG	2.63	0.72
1:C:4848:VAL:HG11	1:C:4887:MET:HB3	1.70	0.72
1:A:1064:GLU:HA	1:A:1071:ARG:HH21	1.54	0.72
1:A:1196:PRO:O	1:A:1198:GLN:NE2	2.23	0.72
1:A:2466:LEU:HB3	1:A:2506:LEU:HD11	1.70	0.72
1:A:4879:MET:HG3	1:D:4578:LEU:HD12	1.71	0.72
2:E:66:MET:HE3	2:E:70:GLN:HG2	1.70	0.72
1:B:758:ARG:HH11	1:B:761:GLY:H	1.36	0.72
1:B:914:PRO:HB2	1:B:917:GLU:HG2	1.72	0.72
1:D:3498:ARG:HH12	1:D:3502:ARG:HH11	1.37	0.72
1:D:3981:ALA:HA	1:D:3986:TRP:HZ2	1.52	0.72
1:C:2466:LEU:HB3	1:C:2506:LEU:HD11	1.69	0.72
1:A:1091:GLU:OE2	1:A:1212:ARG:NH2	2.23	0.72
1:A:3498:ARG:HH12	1:A:3502:ARG:HH11	1.37	0.72
1:B:1091:GLU:OE2	1:B:1212:ARG:NH2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2884:ASN:O	1:B:2888:ARG:HB2	1.88	0.72
1:B:2886:TRP:HA	1:B:2889:LYS:HE3	1.70	0.72
1:C:3914:ASN:HB3	1:C:3917:ILE:HG12	1.71	0.72
1:A:1999:ARG:NH1	1:A:3635:CYS:SG	2.63	0.72
1:B:1939:MET:HA	1:B:1942:LEU:HG	1.71	0.72
1:B:2592:GLY:O	1:B:2600:ARG:NH1	2.23	0.72
1:D:3366:ARG:NH1	1:D:3366:ARG:O	2.21	0.72
1:C:2467:VAL:O	1:C:2471:SER:OG	2.08	0.72
1:C:2886:TRP:HA	1:C:2889:LYS:HE3	1.70	0.72
1:D:3222:LYS:HG2	1:D:3227:ARG:HG2	1.72	0.72
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.24	0.72
1:B:3904:ARG:NH1	1:B:3973:CYS:SG	2.62	0.72
1:B:4239:GLU:O	1:B:4242:ILE:HG13	1.90	0.72
1:D:961:MET:HE2	1:D:966:LYS:HD3	1.72	0.72
1:D:1091:GLU:OE2	1:D:1212:ARG:NH2	2.23	0.72
1:D:2225:PHE:HB3	1:D:2228:MET:HE2	1.70	0.72
1:D:3904:ARG:NH1	1:D:3973:CYS:SG	2.62	0.72
1:D:4239:GLU:O	1:D:4242:ILE:HG13	1.90	0.72
1:A:2970:SER:HA	1:A:2973:PHE:CE2	2.24	0.71
1:C:914:PRO:HB2	1:C:917:GLU:HG2	1.72	0.71
1:C:1259:ARG:NH2	1:C:1595:LEU:O	2.23	0.71
1:C:2970:SER:HA	1:C:2973:PHE:CE2	2.24	0.71
1:A:1259:ARG:NH2	1:A:1595:LEU:O	2.23	0.71
1:B:2467:VAL:O	1:B:2471:SER:OG	2.08	0.71
1:D:1259:ARG:NH2	1:D:1595:LEU:O	2.23	0.71
1:C:2884:ASN:O	1:C:2888:ARG:HB2	1.88	0.71
1:A:241:GLN:O	1:A:243:ARG:NH2	2.23	0.71
1:A:1939:MET:HA	1:A:1942:LEU:HG	1.71	0.71
1:A:3222:LYS:HG2	1:A:3227:ARG:HG2	1.72	0.71
1:A:3603:LEU:HA	1:A:3606:LEU:HD12	1.73	0.71
1:B:3366:ARG:NH1	1:B:3366:ARG:O	2.21	0.71
1:B:3603:LEU:HA	1:B:3606:LEU:HD12	1.73	0.71
1:D:2025:GLU:HA	1:D:2028:ARG:HE	1.55	0.71
1:D:2467:VAL:O	1:D:2471:SER:OG	2.08	0.71
1:C:533:ASN:HB3	1:C:536:ASN:HB2	1.72	0.71
1:C:1064:GLU:HA	1:C:1071:ARG:HH21	1.54	0.71
1:C:2025:GLU:HA	1:C:2028:ARG:HE	1.55	0.71
1:A:1208:VAL:CG2	1:D:3575:LEU:HD21	2.18	0.71
1:A:3366:ARG:NH1	1:A:3366:ARG:O	2.21	0.71
1:B:2025:GLU:HA	1:B:2028:ARG:HE	1.55	0.71
1:D:451:TYR:CZ	1:D:474:ARG:HD3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:663:TYR:HE1	1:C:745:SER:HB2	1.56	0.71
1:C:2577:ILE:HD12	1:C:2578:MET:H	1.56	0.71
1:C:3904:ARG:NH1	1:C:3973:CYS:SG	2.62	0.71
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.72	0.71
1:B:1434:TYR:HB3	1:B:1572:ILE:HG21	1.73	0.71
1:D:1434:TYR:HB3	1:D:1572:ILE:HG21	1.73	0.71
1:C:2545:GLU:HA	1:C:2548:LEU:HD12	1.71	0.71
1:A:533:ASN:HB3	1:A:536:ASN:HB2	1.72	0.71
1:B:451:TYR:CZ	1:B:474:ARG:HD3	2.25	0.71
1:B:1259:ARG:NH2	1:B:1595:LEU:O	2.23	0.71
1:B:3017:PHE:O	1:B:3036:LYS:NZ	2.21	0.71
1:D:2545:GLU:HA	1:D:2548:LEU:HD12	1.71	0.71
1:D:2577:ILE:HD12	1:D:2578:MET:H	1.56	0.71
1:D:3603:LEU:HA	1:D:3606:LEU:HD12	1.73	0.71
1:C:451:TYR:CZ	1:C:474:ARG:HD3	2.25	0.71
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.72	0.71
1:C:3366:ARG:NH1	1:C:3366:ARG:O	2.21	0.71
1:C:961:MET:HE2	1:C:966:LYS:HD3	1.72	0.71
1:C:1196:PRO:O	1:C:1198:GLN:NE2	2.23	0.71
1:C:2545:GLU:N	1:C:2545:GLU:OE2	2.24	0.71
1:C:3222:LYS:HG2	1:C:3227:ARG:HG2	1.72	0.71
1:A:1434:TYR:HB3	1:A:1572:ILE:HG21	1.73	0.71
1:A:2577:ILE:HD12	1:A:2578:MET:H	1.56	0.71
1:A:3478:MET:CE	1:B:1141:ARG:HH22	2.03	0.71
1:B:241:GLN:O	1:B:243:ARG:NH2	2.23	0.71
1:B:533:ASN:HB3	1:B:536:ASN:HB2	1.72	0.71
1:D:1141:ARG:HH12	1:C:3478:MET:CE	2.03	0.71
1:C:3603:LEU:HA	1:C:3606:LEU:HD12	1.73	0.71
1:A:451:TYR:CZ	1:A:474:ARG:HD3	2.25	0.71
1:A:758:ARG:HH11	1:A:761:GLY:H	1.36	0.71
1:A:2467:VAL:O	1:A:2471:SER:OG	2.08	0.71
1:B:516:LYS:NZ	1:B:555:GLU:O	2.24	0.71
1:C:1434:TYR:HB3	1:C:1572:ILE:HG21	1.73	0.71
1:C:2489:LYS:NZ	1:C:2491:SER:OG	2.22	0.71
1:A:1676:LEU:HD21	1:A:2168:VAL:HG23	1.73	0.70
2:F:57:ARG:HH22	2:F:80:TYR:HA	1.55	0.70
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.72	0.70
1:B:1196:PRO:O	1:B:1198:GLN:NE2	2.23	0.70
1:C:1676:LEU:HD21	1:C:2168:VAL:HG23	1.73	0.70
1:A:1463:ASN:O	1:A:1468:LYS:NZ	2.24	0.70
1:B:438:ILE:O	1:B:442:ILE:HG12	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:663:TYR:HE1	1:B:745:SER:HB2	1.55	0.70
1:B:2930:LEU:HD22	1:B:2936:ALA:HB2	1.73	0.70
1:B:3222:LYS:HG2	1:B:3227:ARG:HG2	1.72	0.70
1:B:3261:ALA:HB3	1:B:3266:MET:HE1	1.72	0.70
1:B:4098:ASP:O	1:B:4101:LYS:NZ	2.23	0.70
1:D:533:ASN:HB3	1:D:536:ASN:HB2	1.72	0.70
1:D:3017:PHE:O	1:D:3036:LYS:NZ	2.21	0.70
1:A:2545:GLU:N	1:A:2545:GLU:OE2	2.24	0.70
1:B:1573:MET:N	1:B:1573:MET:SD	2.64	0.70
1:D:438:ILE:O	1:D:442:ILE:HG12	1.91	0.70
1:D:516:LYS:NZ	1:D:555:GLU:O	2.24	0.70
1:D:2013:LYS:HZ1	1:D:3665:GLU:HB2	1.56	0.70
1:C:1091:GLU:OE2	1:C:1212:ARG:NH2	2.23	0.70
1:B:2189:LYS:HZ3	1:B:2192:TYR:HB2	1.54	0.70
1:B:2538:THR:HB	1:B:2541:PHE:HB2	1.74	0.70
1:B:2545:GLU:N	1:B:2545:GLU:OE2	2.24	0.70
1:B:4627:MET:HE3	1:B:4627:MET:H	1.56	0.70
1:D:826:ILE:HG13	1:D:827:LYS:HD2	1.74	0.70
1:C:1573:MET:N	1:C:1573:MET:SD	2.64	0.70
1:A:961:MET:HE2	1:A:966:LYS:HD3	1.72	0.70
1:A:4239:GLU:O	1:A:4242:ILE:HG13	1.90	0.70
1:B:213:TYR:HA	1:B:340:LYS:HA	1.74	0.70
1:B:4634:GLU:OE1	1:B:4636:THR:N	2.24	0.70
1:C:2538:THR:HB	1:C:2541:PHE:HB2	1.74	0.70
1:A:4627:MET:H	1:A:4627:MET:HE3	1.55	0.70
1:D:213:TYR:HA	1:D:340:LYS:HA	1.74	0.70
1:D:4634:GLU:OE1	1:D:4636:THR:N	2.24	0.70
1:C:826:ILE:HG13	1:C:827:LYS:HD2	1.74	0.70
1:C:4239:GLU:O	1:C:4242:ILE:HG13	1.90	0.70
1:C:4627:MET:HE3	1:C:4627:MET:H	1.55	0.70
1:A:2930:LEU:HD22	1:A:2936:ALA:HB2	1.73	0.70
1:B:4041:ALA:HA	1:B:4044:MET:HG2	1.73	0.70
1:D:1573:MET:N	1:D:1573:MET:SD	2.64	0.70
1:A:2013:LYS:HZ1	1:A:3665:GLU:HB2	1.56	0.70
1:A:2025:GLU:HA	1:A:2028:ARG:HE	1.55	0.70
1:D:2545:GLU:N	1:D:2545:GLU:OE2	2.24	0.70
1:D:3261:ALA:HB3	1:D:3266:MET:HE1	1.72	0.70
1:C:438:ILE:O	1:C:442:ILE:HG12	1.91	0.70
1:C:516:LYS:NZ	1:C:555:GLU:O	2.24	0.70
1:A:914:PRO:HB2	1:A:917:GLU:HG2	1.72	0.70
1:A:3575:LEU:CD2	1:B:1208:VAL:HG21	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2742:THR:OG1	1:B:2814:LYS:O	2.10	0.70
1:B:3769:ARG:O	1:B:3773:ARG:NH1	2.25	0.70
1:D:2538:THR:HB	1:D:2541:PHE:HB2	1.74	0.70
1:C:213:TYR:HA	1:C:340:LYS:HA	1.74	0.70
1:C:2189:LYS:HZ3	1:C:2192:TYR:HB2	1.57	0.70
1:C:3261:ALA:HB3	1:C:3266:MET:HE1	1.72	0.70
1:A:438:ILE:O	1:A:442:ILE:HG12	1.91	0.70
1:A:516:LYS:NZ	1:A:555:GLU:O	2.24	0.70
1:B:27:THR:HA	1:B:32:GLN:HA	1.73	0.70
1:B:961:MET:HE2	1:B:966:LYS:HD3	1.72	0.70
1:D:914:PRO:HB2	1:D:917:GLU:HG2	1.72	0.70
1:D:1220:GLN:HB3	1:C:3522:LEU:CD1	2.07	0.70
1:C:317:ARG:O	1:C:347:PHE:N	2.22	0.70
1:C:707:VAL:HG23	1:C:782:SER:HB2	1.74	0.70
1:C:3065:VAL:HA	1:C:3068:LEU:HD12	1.73	0.70
1:A:4634:GLU:OE1	1:A:4636:THR:N	2.24	0.69
2:H:79:ASP:OD2	2:H:80:TYR:N	2.25	0.69
1:D:3065:VAL:HA	1:D:3068:LEU:HD12	1.73	0.69
1:D:4627:MET:HE3	1:D:4627:MET:H	1.55	0.69
1:C:2965:ARG:HH22	1:C:2966:TRP:CD1	2.10	0.69
1:C:3769:ARG:O	1:C:3773:ARG:NH1	2.25	0.69
1:A:199:LEU:HD12	1:A:200:TRP:H	1.56	0.69
1:A:1573:MET:N	1:A:1573:MET:SD	2.64	0.69
1:A:2538:THR:HB	1:A:2541:PHE:HB2	1.74	0.69
1:B:199:LEU:HD12	1:B:200:TRP:H	1.56	0.69
1:D:241:GLN:O	1:D:243:ARG:NH2	2.23	0.69
1:D:663:TYR:HE1	1:D:745:SER:HB2	1.56	0.69
1:D:1676:LEU:HD21	1:D:2168:VAL:HG23	1.73	0.69
1:D:2930:LEU:HD22	1:D:2936:ALA:HB2	1.73	0.69
1:C:2013:LYS:HZ1	1:C:3665:GLU:HB2	1.57	0.69
1:A:2888:ARG:O	1:A:2892:GLN:NE2	2.26	0.69
1:A:4041:ALA:HA	1:A:4044:MET:HG2	1.73	0.69
2:E:40:ARG:HH21	2:E:102:GLU:HG2	1.55	0.69
2:H:7:ILE:HD11	2:H:73:LYS:HG3	1.74	0.69
1:B:127:MET:N	1:B:127:MET:SD	2.64	0.69
1:C:2930:LEU:HD22	1:C:2936:ALA:HB2	1.73	0.69
1:A:826:ILE:HG13	1:A:827:LYS:HD2	1.74	0.69
1:B:1676:LEU:HD21	1:B:2168:VAL:HG23	1.73	0.69
1:B:2489:LYS:NZ	1:B:2491:SER:OG	2.22	0.69
1:B:2965:ARG:HH22	1:B:2966:TRP:CD1	2.10	0.69
1:D:1196:PRO:O	1:D:1198:GLN:NE2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2965:ARG:HH22	1:D:2966:TRP:CD1	2.10	0.69
1:C:2355:ARG:O	1:C:2359:ARG:HG2	1.93	0.69
1:A:1216:ILE:HA	1:D:3424:LEU:HD13	1.73	0.69
1:A:3261:ALA:HB3	1:A:3266:MET:HE1	1.72	0.69
1:A:3904:ARG:NH1	1:A:3973:CYS:SG	2.62	0.69
1:B:4874:MET:HA	1:B:4874:MET:HE3	1.74	0.69
1:C:1463:ASN:O	1:C:1468:LYS:NZ	2.24	0.69
1:C:4634:GLU:OE1	1:C:4636:THR:N	2.24	0.69
1:A:1302:ARG:NH1	1:A:1303:CYS:O	2.26	0.69
1:A:3065:VAL:HA	1:A:3068:LEU:HD12	1.73	0.69
1:A:3522:LEU:CD1	1:B:1220:GLN:HB3	2.05	0.69
1:B:357:LEU:HD11	1:B:376:ALA:HB1	1.74	0.69
1:B:393:CYS:SG	1:B:394:GLN:N	2.66	0.69
1:B:826:ILE:HG13	1:B:827:LYS:HD2	1.74	0.69
1:B:1302:ARG:NH1	1:B:1303:CYS:O	2.26	0.69
1:C:1302:ARG:NH1	1:C:1303:CYS:O	2.26	0.69
1:C:2742:THR:OG1	1:C:2814:LYS:O	2.10	0.69
1:C:4041:ALA:HA	1:C:4044:MET:HG2	1.73	0.69
1:A:4684:ASP:OD1	1:A:4684:ASP:N	2.25	0.69
1:A:4874:MET:HA	1:A:4874:MET:HE3	1.74	0.69
2:G:54:GLU:N	2:G:54:GLU:OE1	2.26	0.69
1:B:426:ARG:NH1	1:B:504:ALA:O	2.22	0.69
1:B:1463:ASN:O	1:B:1468:LYS:NZ	2.24	0.69
1:B:2452:ARG:NH1	1:C:174:VAL:O	2.25	0.69
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.72	0.69
1:D:1216:ILE:HA	1:C:3424:LEU:HD13	1.74	0.69
1:D:2519:LEU:HD13	1:D:2575:ARG:HG3	1.75	0.69
1:C:27:THR:HA	1:C:32:GLN:HA	1.73	0.69
1:C:199:LEU:HD12	1:C:200:TRP:H	1.56	0.69
1:C:3504:SER:H	1:C:3507:THR:HG1	1.40	0.69
1:A:145:ALA:HB2	1:A:175:SER:HB2	1.75	0.69
1:A:213:TYR:HA	1:A:340:LYS:HA	1.74	0.69
1:A:663:TYR:HE1	1:A:745:SER:HB2	1.55	0.69
1:A:2355:ARG:O	1:A:2359:ARG:HG2	1.93	0.69
1:A:2742:THR:OG1	1:A:2814:LYS:O	2.10	0.69
1:A:3145:GLN:HG3	1:A:3196:ARG:HE	1.57	0.69
1:A:3169:LEU:HD12	1:A:3172:ILE:HD11	1.74	0.69
2:E:79:ASP:OD2	2:E:80:TYR:N	2.26	0.69
1:B:145:ALA:HB2	1:B:175:SER:HB2	1.75	0.69
1:B:2519:LEU:HD13	1:B:2575:ARG:HG3	1.75	0.69
1:B:2577:ILE:HD12	1:B:2578:MET:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3424:LEU:HD13	1:C:1216:ILE:HA	1.75	0.69
1:B:4692:PRO:HG3	1:B:4703:ARG:HD2	1.75	0.69
1:D:145:ALA:HB2	1:D:175:SER:HB2	1.75	0.69
1:D:2442:LEU:H	1:D:2444:GLN:NE2	1.91	0.69
1:D:3169:LEU:HD12	1:D:3172:ILE:HD11	1.75	0.69
1:D:3769:ARG:O	1:D:3773:ARG:NH1	2.25	0.69
1:D:4684:ASP:OD1	1:D:4684:ASP:N	2.25	0.69
1:D:4874:MET:HA	1:D:4874:MET:HE3	1.74	0.69
1:C:127:MET:SD	1:C:127:MET:N	2.64	0.69
1:C:2888:ARG:O	1:C:2892:GLN:NE2	2.26	0.69
1:A:357:LEU:HD11	1:A:376:ALA:HB1	1.74	0.69
1:A:2442:LEU:H	1:A:2444:GLN:NE2	1.91	0.69
1:B:3478:MET:CE	1:C:1141:ARG:HH12	2.06	0.69
1:B:3875:MET:HE2	1:B:3875:MET:H	1.57	0.69
1:D:1208:VAL:CG2	1:C:3575:LEU:HD21	2.22	0.69
1:D:4041:ALA:HA	1:D:4044:MET:HG2	1.73	0.69
1:A:27:THR:HA	1:A:32:GLN:HA	1.73	0.69
1:A:393:CYS:SG	1:A:394:GLN:N	2.66	0.69
1:A:2965:ARG:HH22	1:A:2966:TRP:CD1	2.10	0.69
2:E:11:ASP:O	2:E:13:ARG:NH1	2.26	0.69
2:H:23:VAL:HG22	2:H:45:PRO:HB2	1.75	0.69
1:B:2259:GLU:OE2	1:B:2260:ASN:ND2	2.26	0.69
1:B:2442:LEU:H	1:B:2444:GLN:NE2	1.91	0.69
1:D:562:GLU:OE2	1:D:598:LYS:NZ	2.26	0.69
1:D:707:VAL:HG23	1:D:782:SER:HB2	1.74	0.69
1:D:2888:ARG:O	1:D:2892:GLN:NE2	2.26	0.69
1:D:3875:MET:H	1:D:3875:MET:HE2	1.57	0.69
1:C:4874:MET:HA	1:C:4874:MET:HE3	1.74	0.69
2:G:79:ASP:OD2	2:G:80:TYR:N	2.26	0.68
1:B:2365:GLY:O	1:B:2369[B]:ARG:NH1	2.26	0.68
1:B:3065:VAL:HA	1:B:3068:LEU:HD12	1.73	0.68
1:B:4684:ASP:OD1	1:B:4684:ASP:N	2.25	0.68
1:D:172:VAL:HG13	1:D:179:TYR:CD1	2.29	0.68
1:D:2365:GLY:O	1:D:2369[B]:ARG:NH1	2.26	0.68
1:D:3676:ASP:HA	1:D:3679:LYS:HE3	1.76	0.68
1:C:2416:VAL:HG22	1:C:2491:SER:HB2	1.75	0.68
1:A:3769:ARG:O	1:A:3773:ARG:NH1	2.25	0.68
1:A:4692:PRO:HG3	1:A:4703:ARG:HD2	1.75	0.68
2:E:78:PRO:HD3	2:E:96:THR:HG22	1.75	0.68
2:G:7:ILE:HG12	1:C:719:LEU:CD2	2.23	0.68
2:G:78:PRO:HD3	2:G:96:THR:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:707:VAL:HG23	1:B:782:SER:HB2	1.74	0.68
1:B:1804:LEU:HB3	1:B:1853:ILE:HG21	1.75	0.68
1:D:2519:LEU:HA	1:D:2522:LEU:HD12	1.75	0.68
1:C:241:GLN:O	1:C:243:ARG:NH2	2.23	0.68
1:C:2442:LEU:H	1:C:2444:GLN:NE2	1.91	0.68
1:C:3145:GLN:HG3	1:C:3196:ARG:HE	1.57	0.68
1:A:174:VAL:O	1:D:2452:ARG:NH1	2.26	0.68
1:A:233:ILE:O	1:A:257:ARG:NH2	2.21	0.68
1:B:3523:ASN:N	1:C:1220:GLN:OE1	2.26	0.68
1:D:2742:THR:OG1	1:D:2814:LYS:O	2.10	0.68
1:C:562:GLU:OE2	1:C:598:LYS:NZ	2.26	0.68
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.27	0.68
1:A:2788:HIS:HB3	1:A:2790:MET:HG3	1.76	0.68
1:D:27:THR:HA	1:D:32:GLN:HA	1.73	0.68
1:D:393:CYS:SG	1:D:394:GLN:N	2.66	0.68
1:D:1302:ARG:NH1	1:D:1303:CYS:O	2.26	0.68
1:C:2365:GLY:O	1:C:2369[B]:ARG:NH1	2.26	0.68
1:C:3676:ASP:HA	1:C:3679:LYS:HE3	1.76	0.68
1:B:2013:LYS:HZ1	1:B:3665:GLU:HB2	1.59	0.68
1:D:357:LEU:HD11	1:D:376:ALA:HB1	1.74	0.68
1:C:145:ALA:HB2	1:C:175:SER:HB2	1.75	0.68
1:C:172:VAL:HG13	1:C:179:TYR:CD1	2.29	0.68
1:A:707:VAL:HG23	1:A:782:SER:HB2	1.74	0.68
1:A:2365:GLY:O	1:A:2369[B]:ARG:NH1	2.26	0.68
1:D:199:LEU:HD12	1:D:200:TRP:H	1.56	0.68
1:D:317:ARG:O	1:D:347:PHE:N	2.22	0.68
1:D:2441:HIS:HA	1:D:2444:GLN:HE21	1.59	0.68
1:D:3376:GLU:HA	1:D:3379:LEU:HD12	1.76	0.68
1:C:393:CYS:SG	1:C:394:GLN:N	2.66	0.68
1:C:3801:GLY:HA3	1:C:3887:PHE:HE2	1.59	0.68
1:D:2592:GLY:O	1:D:2600:ARG:NH1	2.23	0.68
1:A:3070:ILE:HG12	1:A:3073:ARG:HH21	1.59	0.68
1:A:3424:LEU:HD13	1:B:1216:ILE:HA	1.74	0.68
1:B:562:GLU:OE2	1:B:598:LYS:NZ	2.26	0.68
1:D:2355:ARG:O	1:D:2359:ARG:HG2	1.93	0.68
1:D:3145:GLN:HG3	1:D:3196:ARG:HE	1.57	0.68
1:C:842:PRO:O	1:C:1197:GLY:N	2.27	0.68
1:C:1101:ARG:NH1	1:C:1114:GLU:OE2	2.27	0.68
1:C:1290:ARG:O	1:C:1598:GLN:N	2.24	0.68
1:C:2369[B]:ARG:HB3	1:C:2373:GLY:HA2	1.76	0.68
1:C:3169:LEU:HD12	1:C:3172:ILE:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4684:ASP:N	1:C:4684:ASP:OD1	2.25	0.68
1:A:172:VAL:HG13	1:A:179:TYR:CD1	2.29	0.68
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.27	0.68
1:B:2416:VAL:HG22	1:B:2491:SER:HB2	1.75	0.68
1:B:2441:HIS:HA	1:B:2444:GLN:HE21	1.59	0.68
1:B:2788:HIS:HB3	1:B:2790:MET:HG3	1.76	0.68
1:B:3169:LEU:HD12	1:B:3172:ILE:HD11	1.75	0.68
1:B:4904:PRO:HB3	1:B:4913:ARG:HG2	1.76	0.68
1:D:2259:GLU:OE2	1:D:2260:ASN:ND2	2.26	0.68
1:C:357:LEU:HD11	1:C:376:ALA:HB1	1.74	0.68
1:C:1804:LEU:HB3	1:C:1853:ILE:HG21	1.75	0.68
1:A:4904:PRO:HB3	1:A:4913:ARG:HG2	1.76	0.67
1:B:172:VAL:HG13	1:B:179:TYR:CD1	2.29	0.67
1:B:2355:ARG:O	1:B:2359:ARG:HG2	1.93	0.67
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.75	0.67
1:C:4904:PRO:HB3	1:C:4913:ARG:HG2	1.76	0.67
1:A:2519:LEU:HD13	1:A:2575:ARG:HG3	1.75	0.67
1:B:2358:ILE:HG13	1:B:2359:ARG:HE	1.59	0.67
1:B:2369[B]:ARG:HB3	1:B:2373:GLY:HA2	1.76	0.67
1:B:3801:GLY:HA3	1:B:3887:PHE:HE2	1.59	0.67
1:B:3921:ASP:HA	1:B:3924:LEU:HD12	1.76	0.67
1:D:4098:ASP:O	1:D:4101:LYS:NZ	2.23	0.67
1:C:3921:ASP:HA	1:C:3924:LEU:HD12	1.76	0.67
1:A:562:GLU:OE2	1:A:598:LYS:NZ	2.26	0.67
1:A:2259:GLU:OE2	1:A:2260:ASN:ND2	2.26	0.67
1:A:3676:ASP:HA	1:A:3679:LYS:HE3	1.75	0.67
1:B:3145:GLN:HG3	1:B:3196:ARG:HE	1.57	0.67
1:D:504:ALA:O	1:D:508:GLY:N	2.27	0.67
1:C:4692:PRO:HG3	1:C:4703:ARG:HD2	1.75	0.67
1:A:1804:LEU:HB3	1:A:1853:ILE:HG21	1.75	0.67
1:A:2369[B]:ARG:HB3	1:A:2373:GLY:HA2	1.76	0.67
1:A:2416:VAL:HG22	1:A:2491:SER:HB2	1.75	0.67
1:A:3376:GLU:HA	1:A:3379:LEU:HD12	1.76	0.67
1:B:299:LEU:HD23	1:B:378:LEU:HG	1.76	0.67
1:B:3281:LEU:HD21	1:B:3312:LEU:HA	1.77	0.67
1:C:2259:GLU:OE2	1:C:2260:ASN:ND2	2.26	0.67
1:C:2694:GLU:HG2	1:C:2697:ARG:HE	1.60	0.67
1:C:3021:PRO:HD3	1:C:3030:HIS:CE1	2.30	0.67
1:C:3376:GLU:HA	1:C:3379:LEU:HD12	1.76	0.67
2:F:79:ASP:OD1	2:F:80:TYR:N	2.26	0.67
1:B:818:ARG:HD2	1:B:1028:ASP:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3021:PRO:HD3	1:B:3030:HIS:CE1	2.30	0.67
1:D:4692:PRO:HG3	1:D:4703:ARG:HD2	1.75	0.67
1:A:2519:LEU:HA	1:A:2522:LEU:HD12	1.75	0.67
1:A:3281:LEU:HD21	1:A:3312:LEU:HA	1.77	0.67
1:A:3478:MET:CE	1:B:1141:ARG:HH12	2.07	0.67
1:B:3395:ARG:HA	1:B:3454:GLU:OE1	1.95	0.67
1:B:3676:ASP:HA	1:B:3679:LYS:HE3	1.75	0.67
1:B:4954:MET:HE1	1:B:4959:PHE:HB2	1.77	0.67
1:D:2467:VAL:HG13	1:D:2524:VAL:HG21	1.77	0.67
1:D:3281:LEU:HD21	1:D:3312:LEU:HA	1.77	0.67
1:D:4904:PRO:HB3	1:D:4913:ARG:HG2	1.76	0.67
1:C:2467:VAL:HG13	1:C:2524:VAL:HG21	1.77	0.67
1:C:2519:LEU:HA	1:C:2522:LEU:HD12	1.75	0.67
1:C:3281:LEU:HD21	1:C:3312:LEU:HA	1.77	0.67
1:A:127:MET:SD	1:A:127:MET:N	2.64	0.67
1:A:1203:ASN:HB3	1:A:1211:LEU:HD21	1.77	0.67
1:A:3801:GLY:HA3	1:A:3887:PHE:HE2	1.59	0.67
2:H:7:ILE:HB	2:H:71:ARG:HG3	1.76	0.67
1:D:1221:GLU:OE2	1:D:1221:GLU:N	2.27	0.67
1:D:2788:HIS:HB3	1:D:2790:MET:HG3	1.76	0.67
1:D:3395:ARG:HA	1:D:3454:GLU:OE1	1.95	0.67
1:D:3801:GLY:HA3	1:D:3887:PHE:HE2	1.59	0.67
1:C:2788:HIS:HB3	1:C:2790:MET:HG3	1.76	0.67
1:C:3070:ILE:HG12	1:C:3073:ARG:HH21	1.59	0.67
1:C:4954:MET:HE1	1:C:4959:PHE:HB2	1.77	0.67
1:B:183:SER:O	1:B:186:SER:OG	2.12	0.67
1:B:891:TRP:HA	1:B:902:ARG:HE	1.60	0.67
1:B:3206:LEU:HB3	1:B:3246:LEU:HB3	1.77	0.67
1:D:233:ILE:O	1:D:257:ARG:NH2	2.21	0.67
1:C:2358:ILE:HG13	1:C:2359:ARG:HE	1.59	0.67
1:C:3875:MET:H	1:C:3875:MET:HE2	1.58	0.67
1:A:2358:ILE:HG13	1:A:2359:ARG:HE	1.59	0.67
1:A:2441:HIS:HA	1:A:2444:GLN:HE21	1.59	0.67
1:A:2470:ILE:HD12	1:A:2499:LYS:HE2	1.77	0.67
1:A:2592:GLY:O	1:A:2600:ARG:NH1	2.23	0.67
1:A:3875:MET:H	1:A:3875:MET:HE2	1.58	0.67
1:B:3780:LEU:HA	1:B:3783:ILE:HD12	1.77	0.67
1:D:818:ARG:HD2	1:D:1028:ASP:HA	1.76	0.67
1:D:2163:ARG:HA	1:D:2166:LEU:HD12	1.77	0.67
1:C:3731:LYS:HA	1:C:3734:HIS:CE1	2.30	0.67
1:A:1208:VAL:HG11	1:D:3575:LEU:HD21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:899:ASP:O	1:D:902:ARG:NH1	2.28	0.67
1:D:3921:ASP:HA	1:D:3924:LEU:HD12	1.76	0.67
1:A:296:ASP:OD2	1:A:297:GLN:NE2	2.28	0.66
1:A:2163:ARG:HA	1:A:2166:LEU:HD12	1.77	0.66
1:A:4197:ILE:O	1:A:4202:ARG:NH2	2.29	0.66
2:H:73:LYS:CE	1:D:719:LEU:HD23	2.25	0.66
1:B:2888:ARG:O	1:B:2892:GLN:NE2	2.26	0.66
1:B:3731:LYS:HA	1:B:3734:HIS:CE1	2.30	0.66
1:D:2110:TYR:O	1:D:2112:GLN:NE2	2.28	0.66
1:D:2470:ILE:HD12	1:D:2499:LYS:HE2	1.77	0.66
1:D:3070:ILE:HG12	1:D:3073:ARG:HH21	1.59	0.66
1:C:2163:ARG:HA	1:C:2166:LEU:HD12	1.77	0.66
2:F:23:VAL:HG23	2:F:47:LYS:HD2	1.77	0.66
1:B:3937:TYR:HA	1:B:3940:LYS:HG2	1.76	0.66
1:D:1203:ASN:HB3	1:D:1211:LEU:HD21	1.77	0.66
1:C:299:LEU:HD23	1:C:378:LEU:HG	1.77	0.66
1:C:2519:LEU:HD13	1:C:2575:ARG:HG3	1.75	0.66
1:C:3780:LEU:HA	1:C:3783:ILE:HD12	1.77	0.66
1:A:183:SER:O	1:A:186:SER:OG	2.12	0.66
1:A:3670:GLU:OE1	1:A:3731:LYS:NZ	2.29	0.66
2:E:27:THR:OG1	2:E:40:ARG:NH1	2.29	0.66
1:D:2358:ILE:HG13	1:D:2359:ARG:HE	1.59	0.66
1:D:3235:SER:OG	1:D:3237:GLU:OE1	2.14	0.66
1:C:2470:ILE:HD12	1:C:2499:LYS:HE2	1.77	0.66
1:A:984:LEU:HB3	1:A:987:ARG:HH21	1.60	0.66
1:A:3522:LEU:CB	1:B:1220:GLN:OE1	2.43	0.66
1:A:3731:LYS:HA	1:A:3734:HIS:CE1	2.30	0.66
1:A:3921:ASP:HA	1:A:3924:LEU:HD12	1.76	0.66
2:H:55:VAL:HG11	2:H:59:TRP:HE3	1.60	0.66
1:D:1804:LEU:HB3	1:D:1853:ILE:HG21	1.75	0.66
1:D:2416:VAL:HG22	1:D:2491:SER:HB2	1.75	0.66
1:D:2694:GLU:HG2	1:D:2697:ARG:HE	1.60	0.66
1:C:3078:ARG:NH2	1:C:3151:GLN:O	2.29	0.66
1:A:818:ARG:HD2	1:A:1028:ASP:HA	1.76	0.66
1:A:891:TRP:HA	1:A:902:ARG:HE	1.60	0.66
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.78	0.66
1:B:2467:VAL:HG13	1:B:2524:VAL:HG21	1.77	0.66
1:D:3021:PRO:HD3	1:D:3030:HIS:CE1	2.30	0.66
1:D:4954:MET:HE1	1:D:4959:PHE:HB2	1.77	0.66
1:C:2000:SER:O	1:C:2005:GLN:NE2	2.29	0.66
1:C:2276:ALA:O	1:C:2279:SER:OG	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2441:HIS:HA	1:C:2444:GLN:HE21	1.59	0.66
1:C:3395:ARG:HA	1:C:3454:GLU:OE1	1.95	0.66
1:A:2467:VAL:HG13	1:A:2524:VAL:HG21	1.77	0.66
1:A:2495:VAL:HG23	1:A:2498:HIS:H	1.60	0.66
1:A:3937:TYR:HA	1:A:3940:LYS:HG2	1.76	0.66
1:B:899:ASP:O	1:B:902:ARG:NH1	2.28	0.66
1:B:3376:GLU:HA	1:B:3379:LEU:HD12	1.76	0.66
1:D:299:LEU:HD23	1:D:378:LEU:HG	1.77	0.66
1:D:1141:ARG:NH2	1:C:3478:MET:HE2	2.11	0.66
1:D:2369[B]:ARG:HB3	1:D:2373:GLY:HA2	1.76	0.66
1:D:3780:LEU:HA	1:D:3783:ILE:HD12	1.77	0.66
1:C:3367:LYS:HE2	1:C:3371:LYS:HZ1	1.61	0.66
1:C:4782:VAL:O	1:C:4785:THR:OG1	2.14	0.66
1:A:2694:GLU:HG2	1:A:2697:ARG:HE	1.60	0.66
1:A:3051:ARG:NH2	1:A:3102:ASP:OD2	2.29	0.66
1:B:1623:ARG:HE	1:B:1624:LEU:HD22	1.61	0.66
1:B:2694:GLU:HG2	1:B:2697:ARG:HE	1.60	0.66
1:B:3078:ARG:NH2	1:B:3151:GLN:O	2.29	0.66
1:D:296:ASP:OD2	1:D:297:GLN:NE2	2.28	0.66
1:D:2189:LYS:HZ3	1:D:2192:TYR:HB2	1.60	0.66
1:D:3264:THR:OG1	1:D:3265:GLU:OE2	2.13	0.66
1:D:3504:SER:H	1:D:3507:THR:HG1	1.44	0.66
1:C:891:TRP:HA	1:C:902:ARG:HE	1.60	0.66
1:C:2495:VAL:HG23	1:C:2498:HIS:H	1.60	0.66
1:C:3130:THR:O	1:C:3134:VAL:HG12	1.96	0.66
1:A:884:LEU:HD21	1:A:969:PRO:HG3	1.78	0.66
1:A:1290:ARG:O	1:A:1598:GLN:N	2.24	0.66
1:A:3130:THR:O	1:A:3134:VAL:HG12	1.96	0.66
1:A:3896:ASN:ND2	1:A:3899:PHE:HB2	2.11	0.66
1:A:4242:ILE:HA	1:A:4245:MET:HE2	1.77	0.66
2:H:88:PRO:CB	1:D:623:GLU:CD	2.68	0.66
1:B:1203:ASN:HB3	1:B:1211:LEU:HD21	1.77	0.66
1:B:1290:ARG:O	1:B:1598:GLN:N	2.24	0.66
1:B:1671:ARG:HH21	1:B:1675:ALA:HA	1.61	0.66
1:B:2163:ARG:HA	1:B:2166:LEU:HD12	1.77	0.66
1:B:3070:ILE:HG12	1:B:3073:ARG:HH21	1.59	0.66
1:D:2000:SER:O	1:D:2005:GLN:NE2	2.29	0.66
1:D:3937:TYR:HA	1:D:3940:LYS:HG2	1.76	0.66
1:C:504:ALA:O	1:C:508:GLY:N	2.27	0.66
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.78	0.66
1:A:899:ASP:O	1:A:902:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2110:TYR:O	1:A:2112:GLN:NE2	2.28	0.66
1:A:3395:ARG:HA	1:A:3454:GLU:OE1	1.95	0.66
2:E:54:GLU:OE1	2:E:54:GLU:N	2.27	0.66
1:B:842:PRO:O	1:B:1197:GLY:N	2.27	0.66
1:B:3264:THR:OG1	1:B:3265:GLU:OE2	2.13	0.66
1:B:4197:ILE:O	1:B:4202:ARG:NH2	2.29	0.66
1:B:4743:MET:HE3	1:B:4748:LEU:HD11	1.78	0.66
1:D:2495:VAL:HG23	1:D:2498:HIS:H	1.60	0.66
1:D:4197:ILE:O	1:D:4202:ARG:NH2	2.28	0.66
1:C:818:ARG:HD2	1:C:1028:ASP:HA	1.76	0.66
1:C:1623:ARG:HE	1:C:1624:LEU:HD22	1.61	0.66
1:A:1931:LEU:HD22	1:A:1935:VAL:HG11	1.78	0.66
1:A:2000:SER:O	1:A:2005:GLN:NE2	2.29	0.66
1:B:2000:SER:O	1:B:2005:GLN:NE2	2.29	0.66
1:D:842:PRO:O	1:D:1197:GLY:N	2.27	0.66
1:D:984:LEU:HB3	1:D:987:ARG:HH21	1.60	0.66
1:D:1623:ARG:HE	1:D:1624:LEU:HD22	1.61	0.66
1:D:1931:LEU:HD22	1:D:1935:VAL:HG11	1.78	0.66
1:D:3206:LEU:HB3	1:D:3246:LEU:HB3	1.77	0.66
1:C:828:GLU:OE2	1:C:831:ARG:NH1	2.29	0.66
1:C:1671:ARG:HH21	1:C:1675:ALA:HA	1.61	0.66
1:C:3206:LEU:HB3	1:C:3246:LEU:HB3	1.77	0.66
1:C:4197:ILE:O	1:C:4202:ARG:NH2	2.28	0.66
1:A:299:LEU:HD23	1:A:378:LEU:HG	1.76	0.65
1:A:4954:MET:HE1	1:A:4959:PHE:HB2	1.77	0.65
1:B:317:ARG:O	1:B:347:PHE:N	2.22	0.65
1:B:3130:THR:O	1:B:3134:VAL:HG12	1.96	0.65
1:D:891:TRP:HA	1:D:902:ARG:HE	1.60	0.65
1:D:3731:LYS:HA	1:D:3734:HIS:CE1	2.30	0.65
1:C:173:SER:O	1:C:177:GLU:N	2.29	0.65
1:C:1221:GLU:OE2	1:C:1221:GLU:N	2.27	0.65
1:A:4098:ASP:O	1:A:4101:LYS:NZ	2.23	0.65
1:B:445:LEU:O	1:B:449:ILE:HG12	1.97	0.65
1:B:2495:VAL:HG23	1:B:2498:HIS:H	1.60	0.65
1:B:4782:VAL:O	1:B:4785:THR:OG1	2.14	0.65
1:D:487:VAL:O	1:D:491:ILE:HG12	1.97	0.65
1:D:2620:GLN:HA	1:D:2623:LEU:HD12	1.78	0.65
1:D:4242:ILE:HA	1:D:4245:MET:HE2	1.77	0.65
1:C:899:ASP:O	1:C:902:ARG:NH1	2.28	0.65
1:C:984:LEU:HB3	1:C:987:ARG:HH21	1.60	0.65
1:C:1203:ASN:HB3	1:C:1211:LEU:HD21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3264:THR:OG1	1:C:3265:GLU:OE2	2.13	0.65
1:C:4743:MET:HE3	1:C:4748:LEU:HD11	1.78	0.65
1:A:317:ARG:O	1:A:347:PHE:N	2.22	0.65
1:B:2470:ILE:HD12	1:B:2499:LYS:HE2	1.77	0.65
1:D:884:LEU:HD21	1:D:969:PRO:HG3	1.78	0.65
1:D:3896:ASN:ND2	1:D:3899:PHE:HB2	2.11	0.65
1:D:4669:VAL:HA	1:D:4672:LYS:HE2	1.77	0.65
1:C:487:VAL:O	1:C:491:ILE:HG12	1.97	0.65
1:C:3284:TRP:HB3	1:C:3305:THR:HG21	1.79	0.65
1:C:3937:TYR:HA	1:C:3940:LYS:HG2	1.76	0.65
1:A:2276:ALA:O	1:A:2279:SER:OG	2.14	0.65
1:A:3021:PRO:HD3	1:A:3030:HIS:CE1	2.30	0.65
1:A:3281:LEU:HD22	1:A:3315:LEU:HD13	1.79	0.65
1:A:3336:LYS:HZ3	1:A:3403:ARG:HG3	1.61	0.65
1:A:3417:ASP:OD1	1:A:3420:ARG:NH2	2.30	0.65
1:B:173:SER:O	1:B:177:GLU:N	2.29	0.65
1:B:246:TYR:HB2	1:B:373:LYS:HB2	1.79	0.65
1:B:884:LEU:HD21	1:B:969:PRO:HG3	1.78	0.65
1:B:3157:ILE:HG23	1:B:3161:VAL:HB	1.79	0.65
1:B:3575:LEU:HD21	1:C:1208:VAL:HG11	1.78	0.65
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.78	0.65
1:D:13:PHE:HE1	1:D:164:ARG:HD2	1.62	0.65
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.27	0.65
1:D:3281:LEU:HD22	1:D:3315:LEU:HD13	1.79	0.65
1:D:3545:THR:HG23	1:D:3548:GLU:H	1.62	0.65
1:A:2620:GLN:HA	1:A:2623:LEU:HD12	1.78	0.65
1:D:603:LEU:HG	1:D:1669:LEU:HD11	1.78	0.65
1:D:1207:ASP:O	1:D:1210:SER:OG	2.15	0.65
1:D:3051:ARG:NH2	1:D:3102:ASP:OD2	2.29	0.65
1:D:3130:THR:O	1:D:3134:VAL:HG12	1.96	0.65
1:D:3284:TRP:HB3	1:D:3305:THR:HG21	1.79	0.65
1:D:3670:GLU:OE1	1:D:3731:LYS:NZ	2.29	0.65
1:C:445:LEU:O	1:C:449:ILE:HG12	1.97	0.65
1:C:884:LEU:HD21	1:C:969:PRO:HG3	1.78	0.65
1:C:3417:ASP:OD1	1:C:3420:ARG:NH2	2.30	0.65
1:A:504:ALA:O	1:A:508:GLY:N	2.27	0.65
1:A:1623:ARG:HE	1:A:1624:LEU:HD22	1.61	0.65
1:A:1671:ARG:HH21	1:A:1675:ALA:HA	1.61	0.65
1:B:828:GLU:OE2	1:B:831:ARG:NH1	2.29	0.65
1:B:3102:ASP:OD1	1:B:3105:LYS:NZ	2.30	0.65
1:B:3103:ILE:HA	1:B:3106:MET:HG2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3284:TRP:HB3	1:B:3305:THR:HG21	1.79	0.65
1:B:3670:GLU:OE1	1:B:3731:LYS:NZ	2.29	0.65
1:B:4772:ASP:O	1:B:4776:GLN:NE2	2.30	0.65
1:D:573:GLU:CD	1:D:573:GLU:H	2.05	0.65
1:D:4639:MET:N	1:D:4639:MET:SD	2.70	0.65
1:C:3157:ILE:HG23	1:C:3161:VAL:HB	1.78	0.65
1:A:246:TYR:HB2	1:A:373:LYS:HB2	1.79	0.65
1:A:308:HIS:NE2	1:A:310:LYS:HB3	2.12	0.65
1:A:2437:ALA:O	1:A:2508:ARG:NH2	2.30	0.65
1:A:3545:THR:HG23	1:A:3548:GLU:H	1.61	0.65
1:A:3875:MET:HB2	1:A:3953:LYS:HE2	1.78	0.65
1:A:4743:MET:HE3	1:A:4748:LEU:HD11	1.78	0.65
1:B:681:HIS:HE1	1:B:683:ARG:HB2	1.62	0.65
1:B:2746:ILE:HD12	1:B:2746:ILE:H	1.62	0.65
1:B:3896:ASN:ND2	1:B:3899:PHE:HB2	2.11	0.65
1:B:4583:SER:O	1:B:4629:TYR:N	2.30	0.65
1:D:445:LEU:O	1:D:449:ILE:HG12	1.97	0.65
1:D:828:GLU:OE2	1:D:831:ARG:NH1	2.29	0.65
1:D:3417:ASP:OD1	1:D:3420:ARG:NH2	2.30	0.65
1:D:4772:ASP:O	1:D:4776:GLN:NE2	2.30	0.65
1:C:3081:MET:HG2	1:C:3156:VAL:HA	1.79	0.65
1:C:3545:THR:HG23	1:C:3548:GLU:H	1.61	0.65
1:A:2639:MET:HA	1:A:2642:LYS:HD2	1.79	0.65
1:A:2746:ILE:H	1:A:2746:ILE:HD12	1.62	0.65
1:A:3206:LEU:HB3	1:A:3246:LEU:HB3	1.77	0.65
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.14	0.65
1:B:3450:ASN:O	1:B:3454:GLU:HG3	1.97	0.65
1:D:168:ASP:HB3	1:D:199:LEU:HD11	1.79	0.65
1:D:3648:ARG:O	1:D:3652:MET:HG2	1.97	0.65
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.78	0.65
1:C:308:HIS:NE2	1:C:310:LYS:HB3	2.12	0.65
1:C:3035:GLU:O	1:C:3039:ILE:HG13	1.97	0.65
1:C:3875:MET:HB2	1:C:3953:LYS:HE2	1.78	0.65
1:C:4669:VAL:HA	1:C:4672:LYS:HE2	1.78	0.65
1:A:828:GLU:OE2	1:A:831:ARG:NH1	2.29	0.65
1:A:3078:ARG:NH2	1:A:3151:GLN:O	2.29	0.65
1:A:4669:VAL:HA	1:A:4672:LYS:HE2	1.78	0.65
1:B:984:LEU:HB3	1:B:987:ARG:HH21	1.60	0.65
1:D:1671:ARG:HH21	1:D:1675:ALA:HA	1.61	0.65
1:C:573:GLU:H	1:C:573:GLU:CD	2.05	0.65
1:C:603:LEU:HG	1:C:1669:LEU:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3051:ARG:NH2	1:C:3102:ASP:OD2	2.29	0.65
1:C:3103:ILE:HA	1:C:3106:MET:HG2	1.79	0.65
1:C:4003:LEU:HD23	1:C:4009:GLN:HB3	1.78	0.65
1:C:4098:ASP:O	1:C:4101:LYS:NZ	2.23	0.65
1:A:513:GLU:OE2	1:A:513:GLU:N	2.30	0.65
1:A:590:LEU:HB3	1:A:631:LEU:HD21	1.79	0.65
1:A:3575:LEU:HD21	1:B:1208:VAL:HG11	1.77	0.65
1:A:3780:LEU:HA	1:A:3783:ILE:HD12	1.77	0.65
2:H:7:ILE:HG12	1:D:719:LEU:HD21	1.79	0.65
2:H:88:PRO:CB	1:D:623:GLU:OE2	2.43	0.65
1:B:504:ALA:O	1:B:508:GLY:N	2.27	0.65
1:B:3235:SER:OG	1:B:3237:GLU:OE1	2.14	0.65
1:B:3478:MET:HE2	1:C:1141:ARG:NH2	2.12	0.65
1:D:13:PHE:HB3	1:D:100:THR:HG21	1.79	0.65
1:C:1948:ASP:OD1	1:C:2126:ARG:NH2	2.30	0.65
1:C:2746:ILE:H	1:C:2746:ILE:HD12	1.62	0.65
1:C:3235:SER:OG	1:C:3237:GLU:OE1	2.14	0.65
1:A:13:PHE:HE1	1:A:164:ARG:HD2	1.62	0.64
1:A:1649:ASP:HB3	1:A:1652:GLU:HG3	1.79	0.64
2:F:78:PRO:HA	2:F:81:ALA:HB3	1.80	0.64
1:B:513:GLU:N	1:B:513:GLU:OE2	2.30	0.64
1:B:2437:ALA:O	1:B:2508:ARG:NH2	2.30	0.64
1:B:2974:ILE:HG21	1:B:3049:LEU:HG	1.79	0.64
1:B:3009:TYR:O	1:B:3013:HIS:ND1	2.30	0.64
1:B:3417:ASP:OD1	1:B:3420:ARG:NH2	2.30	0.64
1:B:3767:GLN:NE2	1:B:3806:ASN:O	2.29	0.64
1:D:140:ASP:OD1	1:D:141:ALA:N	2.31	0.64
1:D:1208:VAL:HG11	1:C:3575:LEU:HD21	1.79	0.64
1:D:2276:ALA:O	1:D:2279:SER:OG	2.14	0.64
1:D:4743:MET:HE3	1:D:4748:LEU:HD11	1.78	0.64
1:C:13:PHE:HB3	1:C:100:THR:HG21	1.79	0.64
1:C:1724:CYS:HA	1:C:1851:MET:HE1	1.79	0.64
1:A:140:ASP:OD1	1:A:141:ALA:N	2.31	0.64
1:A:681:HIS:HE1	1:A:683:ARG:HB2	1.62	0.64
1:A:2165:LEU:HD23	1:A:2178:MET:HG3	1.79	0.64
1:A:3081:MET:HG2	1:A:3156:VAL:HA	1.79	0.64
1:A:3264:THR:OG1	1:A:3265:GLU:OE2	2.13	0.64
1:D:2639:MET:HA	1:D:2642:LYS:HD2	1.79	0.64
1:D:3081:MET:HG2	1:D:3156:VAL:HA	1.79	0.64
1:D:4583:SER:O	1:D:4629:TYR:N	2.30	0.64
1:C:246:TYR:HB2	1:C:373:LYS:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2437:ALA:O	1:C:2508:ARG:NH2	2.30	0.64
1:C:2559:LEU:HD11	1:C:2603:ILE:HG12	1.79	0.64
1:C:3009:TYR:O	1:C:3013:HIS:ND1	2.30	0.64
1:C:3281:LEU:HD22	1:C:3315:LEU:HD13	1.79	0.64
1:A:13:PHE:HB3	1:A:100:THR:HG21	1.79	0.64
1:A:1207:ASP:O	1:A:1210:SER:OG	2.15	0.64
1:A:2974:ILE:HG21	1:A:3049:LEU:HG	1.79	0.64
1:A:3450:ASN:O	1:A:3454:GLU:HG3	1.97	0.64
2:H:26:TYR:N	2:H:39:SER:OG	2.28	0.64
1:B:487:VAL:O	1:B:491:ILE:HG12	1.97	0.64
1:B:603:LEU:HG	1:B:1669:LEU:HD11	1.78	0.64
1:B:765:GLN:OE1	1:B:765:GLN:N	2.30	0.64
1:B:1462:MET:HA	1:B:1462:MET:HE3	1.78	0.64
1:B:2306:GLY:HA2	1:B:2323:TRP:HB2	1.80	0.64
1:B:2584[A]:HIS:HD1	1:B:2625:ARG:HD3	1.63	0.64
1:B:3051:ARG:NH2	1:B:3102:ASP:OD2	2.29	0.64
1:B:3648:ARG:O	1:B:3652:MET:HG2	1.97	0.64
1:B:3842:LEU:HB2	1:B:3929:SER:HB2	1.79	0.64
1:B:4242:ILE:HA	1:B:4245:MET:HE2	1.77	0.64
1:B:4669:VAL:HA	1:B:4672:LYS:HE2	1.78	0.64
1:D:765:GLN:N	1:D:765:GLN:OE1	2.30	0.64
1:D:2974:ILE:HG21	1:D:3049:LEU:HG	1.79	0.64
1:D:3035:GLU:O	1:D:3039:ILE:HG13	1.97	0.64
1:D:3102:ASP:OD1	1:D:3105:LYS:NZ	2.30	0.64
1:D:4003:LEU:HD23	1:D:4009:GLN:HB3	1.79	0.64
1:D:4159:ARG:HA	1:D:4162:ASN:HD22	1.63	0.64
1:C:590:LEU:HB3	1:C:631:LEU:HD21	1.80	0.64
1:C:2974:ILE:HG21	1:C:3049:LEU:HG	1.79	0.64
1:C:3648:ARG:O	1:C:3652:MET:HG2	1.97	0.64
1:C:3896:ASN:ND2	1:C:3899:PHE:HB2	2.11	0.64
1:A:445:LEU:O	1:A:449:ILE:HG12	1.97	0.64
1:A:871:ARG:HA	1:A:874:LEU:HG	1.80	0.64
1:A:3284:TRP:HB3	1:A:3305:THR:HG21	1.79	0.64
1:A:3473:ASP:OD1	1:A:3477:LYS:NZ	2.31	0.64
1:A:3842:LEU:HB2	1:A:3929:SER:HB2	1.79	0.64
1:A:4639:MET:N	1:A:4639:MET:SD	2.70	0.64
1:B:1724:CYS:HA	1:B:1851:MET:HE1	1.79	0.64
1:B:4639:MET:N	1:B:4639:MET:SD	2.70	0.64
1:D:1463:ASN:O	1:D:1468:LYS:NZ	2.24	0.64
1:D:2559:LEU:HD11	1:D:2603:ILE:HG12	1.79	0.64
1:D:2746:ILE:H	1:D:2746:ILE:HD12	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2306:GLY:HA2	1:C:2323:TRP:HB2	1.80	0.64
1:C:3203:VAL:HG13	1:C:3211:ASN:HD22	1.62	0.64
1:C:4639:MET:SD	1:C:4639:MET:N	2.70	0.64
1:A:573:GLU:H	1:A:573:GLU:CD	2.05	0.64
1:A:628:GLY:O	2:E:34:LYS:NZ	2.30	0.64
1:A:790:ARG:NH1	1:A:1624:LEU:O	2.31	0.64
1:A:842:PRO:O	1:A:1197:GLY:N	2.27	0.64
1:A:2277:ALA:HB1	1:A:2337:PHE:HD2	1.63	0.64
1:A:2306:GLY:HA2	1:A:2323:TRP:HB2	1.80	0.64
1:B:13:PHE:HB3	1:B:100:THR:HG21	1.79	0.64
1:B:140:ASP:OD1	1:B:141:ALA:N	2.31	0.64
1:B:1931:LEU:HD22	1:B:1935:VAL:HG11	1.78	0.64
1:B:2553:TYR:HA	1:B:2556:LEU:HD12	1.80	0.64
1:B:3035:GLU:O	1:B:3039:ILE:HG13	1.97	0.64
1:D:308:HIS:NE2	1:D:310:LYS:HB3	2.12	0.64
1:D:1457:TYR:HB2	1:D:1491:ASN:HB2	1.80	0.64
1:D:1996:ARG:HA	1:D:1999:ARG:HB2	1.80	0.64
1:D:3450:ASN:O	1:D:3454:GLU:HG3	1.97	0.64
1:C:513:GLU:N	1:C:513:GLU:OE2	2.30	0.64
1:C:3227:ARG:HH21	1:C:3232:LEU:HD22	1.62	0.64
1:C:3450:ASN:O	1:C:3454:GLU:HG3	1.97	0.64
1:C:4583:SER:O	1:C:4629:TYR:N	2.30	0.64
1:A:487:VAL:O	1:A:491:ILE:HG12	1.97	0.64
1:A:2490:MET:N	1:A:2490:MET:SD	2.71	0.64
1:A:3035:GLU:O	1:A:3039:ILE:HG13	1.97	0.64
2:F:54:GLU:OE1	2:F:54:GLU:N	2.29	0.64
1:B:13:PHE:HE1	1:B:164:ARG:HD2	1.62	0.64
1:B:590:LEU:HB3	1:B:631:LEU:HD21	1.80	0.64
1:B:2559:LEU:HD11	1:B:2603:ILE:HG12	1.79	0.64
1:B:3545:THR:HG23	1:B:3548:GLU:H	1.61	0.64
1:D:513:GLU:N	1:D:513:GLU:OE2	2.30	0.64
1:D:3157:ILE:HG23	1:D:3161:VAL:HB	1.78	0.64
1:C:140:ASP:OD1	1:C:141:ALA:N	2.31	0.64
1:C:233:ILE:O	1:C:257:ARG:NH2	2.21	0.64
1:C:4242:ILE:HA	1:C:4245:MET:HE2	1.77	0.64
1:C:4772:ASP:O	1:C:4776:GLN:NE2	2.30	0.64
1:A:1220:GLN:OE1	1:D:3522:LEU:CB	2.45	0.64
1:A:1948:ASP:OD1	1:A:2126:ARG:NH2	2.30	0.64
1:A:2584[A]:HIS:HD1	1:A:2625:ARG:HD3	1.63	0.64
1:A:3504:SER:H	1:A:3507:THR:HG1	1.46	0.64
1:A:4583:SER:O	1:A:4629:TYR:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1527:MET:HG2	1:B:1540:PHE:HB2	1.80	0.64
1:D:173:SER:O	1:D:177:GLU:N	2.29	0.64
1:D:246:TYR:HB2	1:D:373:LYS:HB2	1.79	0.64
1:D:681:HIS:HE1	1:D:683:ARG:HB2	1.62	0.64
1:D:790:ARG:NH1	1:D:1624:LEU:O	2.31	0.64
1:D:871:ARG:HA	1:D:874:LEU:HG	1.79	0.64
1:D:1070:ASP:OD1	1:D:1241:SER:OG	2.16	0.64
1:D:2165:LEU:HD23	1:D:2178:MET:HG3	1.79	0.64
1:D:2437:ALA:O	1:D:2508:ARG:NH2	2.30	0.64
1:D:3203:VAL:HG13	1:D:3211:ASN:HD22	1.62	0.64
1:C:1457:TYR:HB2	1:C:1491:ASN:HB2	1.80	0.64
1:C:3005:LEU:HA	1:C:3008:GLN:HE21	1.63	0.64
1:A:603:LEU:HG	1:A:1669:LEU:HD11	1.78	0.64
1:A:2559:LEU:HD11	1:A:2603:ILE:HG12	1.79	0.64
1:A:4003:LEU:HD23	1:A:4009:GLN:HB3	1.79	0.64
1:A:4772:ASP:O	1:A:4776:GLN:NE2	2.30	0.64
1:B:573:GLU:CD	1:B:573:GLU:H	2.05	0.64
1:B:1649:ASP:HB3	1:B:1652:GLU:HG3	1.79	0.64
1:B:2515:GLN:OE1	1:B:2515:GLN:N	2.28	0.64
1:D:1948:ASP:OD1	1:D:2126:ARG:NH2	2.30	0.64
1:D:2306:GLY:HA2	1:D:2323:TRP:HB2	1.80	0.64
1:D:3078:ARG:NH2	1:D:3151:GLN:O	2.29	0.64
1:C:13:PHE:HE1	1:C:164:ARG:HD2	1.62	0.64
1:C:2592:GLY:O	1:C:2600:ARG:NH1	2.23	0.64
1:A:3235:SER:OG	1:A:3237:GLU:OE1	2.14	0.64
1:B:168:ASP:HB3	1:B:199:LEU:HD11	1.79	0.64
1:B:308:HIS:NE2	1:B:310:LYS:HB3	2.12	0.64
1:B:3005:LEU:HA	1:B:3008:GLN:HE21	1.63	0.64
1:B:3875:MET:HB2	1:B:3953:LYS:HE2	1.78	0.64
1:D:1462:MET:HA	1:D:1462:MET:HE3	1.78	0.64
1:D:1804:LEU:HD13	1:D:1853:ILE:HG13	1.80	0.64
1:D:3875:MET:HB2	1:D:3953:LYS:HE2	1.78	0.64
1:C:2490:MET:N	1:C:2490:MET:SD	2.71	0.64
1:C:2553:TYR:HA	1:C:2556:LEU:HD12	1.80	0.64
1:A:3227:ARG:HH21	1:A:3232:LEU:HD22	1.62	0.64
1:A:3648:ARG:O	1:A:3652:MET:HG2	1.97	0.64
2:G:7:ILE:HA	1:C:719:LEU:HD21	1.80	0.64
2:G:48:PHE:HZ	2:G:63:VAL:HG11	1.63	0.64
1:B:179:TYR:N	1:B:194:SER:O	2.31	0.64
1:B:2276:ALA:O	1:B:2279:SER:OG	2.14	0.64
1:B:3081:MET:HG2	1:B:3156:VAL:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2277:ALA:HB1	1:D:2337:PHE:HD2	1.63	0.64
1:D:2489:LYS:NZ	1:D:2491:SER:OG	2.22	0.64
1:D:3009:TYR:O	1:D:3013:HIS:ND1	2.30	0.64
1:D:3473:ASP:OD1	1:D:3477:LYS:NZ	2.31	0.64
1:C:1527:MET:HG2	1:C:1540:PHE:HB2	1.80	0.64
1:C:1804:LEU:HD13	1:C:1853:ILE:HG13	1.80	0.64
1:C:2420:HIS:HA	1:C:2423:MET:HE2	1.80	0.64
1:A:173:SER:O	1:A:177:GLU:N	2.29	0.63
1:A:179:TYR:N	1:A:194:SER:O	2.31	0.63
1:A:1141:ARG:NH2	1:D:3478:MET:HE2	2.11	0.63
1:A:1996:ARG:HA	1:A:1999:ARG:HB2	1.80	0.63
2:H:7:ILE:HG12	1:D:719:LEU:CD2	2.28	0.63
1:B:3281:LEU:HD22	1:B:3315:LEU:HD13	1.79	0.63
1:B:4003:LEU:HD23	1:B:4009:GLN:HB3	1.79	0.63
1:B:4159:ARG:HA	1:B:4162:ASN:HD22	1.63	0.63
1:D:590:LEU:HB3	1:D:631:LEU:HD21	1.80	0.63
1:D:1617:THR:HG22	1:D:1628:VAL:HG12	1.80	0.63
1:D:1640:HIS:HE1	1:D:1645:ASN:HA	1.64	0.63
1:D:2623:LEU:O	1:D:2627:VAL:HG23	1.99	0.63
1:D:3227:ARG:HH21	1:D:3232:LEU:HD22	1.62	0.63
1:C:1649:ASP:HB3	1:C:1652:GLU:HG3	1.79	0.63
1:C:1931:LEU:HD22	1:C:1935:VAL:HG11	1.78	0.63
1:C:2165:LEU:HD23	1:C:2178:MET:HG3	1.79	0.63
1:C:3714:SER:O	1:C:3787:LYS:NZ	2.31	0.63
1:A:1070:ASP:OD1	1:A:1241:SER:OG	2.16	0.63
1:A:1527:MET:HG2	1:A:1540:PHE:HB2	1.80	0.63
1:A:1804:LEU:HD13	1:A:1853:ILE:HG13	1.80	0.63
1:A:3103:ILE:HA	1:A:3106:MET:HG2	1.79	0.63
1:B:2110:TYR:O	1:B:2112:GLN:NE2	2.28	0.63
1:B:3714:SER:O	1:B:3787:LYS:NZ	2.31	0.63
1:B:3875:MET:HE2	1:B:3875:MET:N	2.13	0.63
1:B:4880:MET:N	1:B:4880:MET:HE2	2.13	0.63
1:D:183:SER:O	1:D:186:SER:OG	2.12	0.63
1:D:533:ASN:ND2	1:D:536:ASN:OD1	2.30	0.63
1:C:183:SER:O	1:C:186:SER:OG	2.12	0.63
1:C:1070:ASP:OD1	1:C:1241:SER:OG	2.16	0.63
1:C:1462:MET:HE3	1:C:1462:MET:HA	1.78	0.63
1:C:2584[A]:HIS:HD1	1:C:2625:ARG:HD3	1.63	0.63
1:C:4159:ARG:HA	1:C:4162:ASN:HD22	1.63	0.63
1:A:168:ASP:HB3	1:A:199:LEU:HD11	1.79	0.63
1:A:181:HIS:ND1	1:A:198:THR:OG1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1457:TYR:HB2	1:A:1491:ASN:HB2	1.80	0.63
1:A:1462:MET:HA	1:A:1462:MET:HE3	1.78	0.63
1:A:3009:TYR:O	1:A:3013:HIS:ND1	2.30	0.63
2:H:88:PRO:HA	1:D:623:GLU:OE1	1.98	0.63
1:B:1727:ARG:HE	1:B:1730:MET:HE3	1.63	0.63
1:B:2490:MET:SD	1:B:2490:MET:N	2.71	0.63
1:B:2639:MET:HA	1:B:2642:LYS:HD2	1.79	0.63
1:B:4844:LEU:HB2	1:B:4928:LEU:HD21	1.81	0.63
1:D:2453:ILE:HA	1:D:2456:ILE:HD12	1.81	0.63
1:C:168:ASP:HB3	1:C:199:LEU:HD11	1.79	0.63
1:C:790:ARG:NH1	1:C:1624:LEU:O	2.31	0.63
1:C:1207:ASP:O	1:C:1210:SER:OG	2.15	0.63
1:C:2453:ILE:HA	1:C:2456:ILE:HD12	1.81	0.63
1:C:3473:ASP:OD1	1:C:3477:LYS:NZ	2.31	0.63
1:C:3875:MET:HE2	1:C:3875:MET:N	2.14	0.63
1:A:2489:LYS:NZ	1:A:2491:SER:OG	2.22	0.63
1:A:2555:CYS:HB2	1:A:2599:GLN:HE21	1.63	0.63
1:A:3157:ILE:HG23	1:A:3161:VAL:HB	1.79	0.63
1:A:3523:ASN:N	1:B:1220:GLN:OE1	2.30	0.63
1:A:3767:GLN:NE2	1:A:3806:ASN:O	2.29	0.63
1:B:1207:ASP:O	1:B:1210:SER:OG	2.15	0.63
1:B:1948:ASP:OD1	1:B:2126:ARG:NH2	2.30	0.63
1:B:3203:VAL:HG13	1:B:3211:ASN:HD22	1.62	0.63
1:B:3473:ASP:OD1	1:B:3477:LYS:NZ	2.31	0.63
1:D:329:ARG:NH2	1:D:330:ASP:O	2.32	0.63
1:C:329:ARG:NH2	1:C:330:ASP:O	2.32	0.63
1:C:681:HIS:HE1	1:C:683:ARG:HB2	1.62	0.63
1:C:712:TYR:HA	1:C:1470:ARG:HH21	1.64	0.63
1:C:2515:GLN:OE1	1:C:2515:GLN:N	2.28	0.63
1:C:4844:LEU:HB2	1:C:4928:LEU:HD21	1.81	0.63
1:A:16:THR:HA	1:A:69:LEU:HD11	1.81	0.63
1:A:1640:HIS:HE1	1:A:1645:ASN:HA	1.64	0.63
1:A:1676:LEU:HD11	1:A:2168:VAL:HA	1.81	0.63
1:A:3203:VAL:HG13	1:A:3211:ASN:HD22	1.62	0.63
1:A:3714:SER:O	1:A:3787:LYS:NZ	2.31	0.63
1:A:3875:MET:HE2	1:A:3875:MET:N	2.13	0.63
1:A:4159:ARG:HA	1:A:4162:ASN:HD22	1.63	0.63
1:B:961:MET:HE2	1:B:966:LYS:CD	2.29	0.63
1:B:2883:HIS:HE1	1:B:2905:LEU:HD22	1.64	0.63
1:B:3336:LYS:HZ3	1:B:3403:ARG:HG3	1.63	0.63
1:B:4582:VAL:CG2	1:C:4877:ASP:HA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1131:ARG:HH11	1:D:1139:PHE:HB2	1.64	0.63
1:D:1676:LEU:HD11	1:D:2168:VAL:HA	1.81	0.63
1:D:1727:ARG:HE	1:D:1730:MET:HE3	1.63	0.63
1:D:2490:MET:N	1:D:2490:MET:SD	2.71	0.63
1:D:3103:ILE:HA	1:D:3106:MET:HG2	1.79	0.63
1:D:3714:SER:O	1:D:3787:LYS:NZ	2.31	0.63
1:D:4880:MET:N	1:D:4880:MET:HE2	2.13	0.63
1:A:2203:MET:N	1:A:2203:MET:SD	2.72	0.63
1:A:2883:HIS:HE1	1:A:2905:LEU:HD22	1.64	0.63
1:A:3005:LEU:HA	1:A:3008:GLN:HE21	1.63	0.63
1:A:3102:ASP:OD1	1:A:3105:LYS:NZ	2.30	0.63
1:A:4880:MET:HE2	1:A:4880:MET:N	2.13	0.63
1:B:476:SER:O	1:B:480:GLU:HG2	1.99	0.63
1:B:2620:GLN:HA	1:B:2623:LEU:HD12	1.78	0.63
1:B:4053:SER:O	1:B:4056:GLU:HG2	1.99	0.63
1:D:16:THR:HA	1:D:69:LEU:HD11	1.81	0.63
1:D:1733:GLU:OE2	1:D:2163:ARG:NH1	2.32	0.63
1:D:2553:TYR:HA	1:D:2556:LEU:HD12	1.80	0.63
1:D:2555:CYS:HB2	1:D:2599:GLN:HE21	1.63	0.63
1:C:1996:ARG:HA	1:C:1999:ARG:HB2	1.80	0.63
1:C:4053:SER:O	1:C:4056:GLU:HG2	1.99	0.63
1:C:4880:MET:HE2	1:C:4880:MET:N	2.13	0.63
1:A:476:SER:O	1:A:480:GLU:HG2	1.99	0.63
1:A:1727:ARG:HE	1:A:1730:MET:HE3	1.63	0.63
1:A:1733:GLU:OE2	1:A:2163:ARG:NH1	2.32	0.63
1:B:1995:THR:O	1:B:1999:ARG:N	2.31	0.63
1:B:2165:LEU:HD23	1:B:2178:MET:HG3	1.79	0.63
1:D:712:TYR:HA	1:D:1470:ARG:HH21	1.64	0.63
1:D:1649:ASP:HB3	1:D:1652:GLU:HG3	1.79	0.63
1:D:1724:CYS:HA	1:D:1851:MET:HE1	1.79	0.63
1:D:3842:LEU:HB2	1:D:3929:SER:HB2	1.79	0.63
1:D:4248:ALA:HA	1:D:4251:ILE:HG12	1.81	0.63
1:C:179:TYR:N	1:C:194:SER:O	2.32	0.63
1:C:2110:TYR:O	1:C:2112:GLN:NE2	2.28	0.63
1:C:2620:GLN:HA	1:C:2623:LEU:HD12	1.78	0.63
1:C:2623:LEU:O	1:C:2627:VAL:HG23	1.99	0.63
1:C:4248:ALA:HA	1:C:4251:ILE:HG12	1.81	0.63
1:A:961:MET:HE2	1:A:966:LYS:CD	2.29	0.63
1:A:2623:LEU:O	1:A:2627:VAL:HG23	1.99	0.63
1:B:273:HIS:ND1	1:B:335:GLY:O	2.32	0.63
1:B:1221:GLU:OE2	1:B:1221:GLU:N	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3522:LEU:CB	1:C:1220:GLN:OE1	2.47	0.63
1:B:4732:PHE:O	1:B:4736:ARG:NE	2.32	0.63
1:D:1527:MET:HG2	1:D:1540:PHE:HB2	1.80	0.63
1:C:871:ARG:HA	1:C:874:LEU:HG	1.80	0.63
1:C:961:MET:HE2	1:C:966:LYS:CD	2.29	0.63
1:C:2639:MET:HA	1:C:2642:LYS:HD2	1.79	0.63
1:C:3428:ASN:ND2	1:C:3430:ASN:OD1	2.29	0.63
1:A:273:HIS:ND1	1:A:335:GLY:O	2.32	0.63
1:A:1724:CYS:HA	1:A:1851:MET:HE1	1.79	0.63
1:B:329:ARG:NH2	1:B:330:ASP:O	2.32	0.63
1:B:871:ARG:HA	1:B:874:LEU:HG	1.79	0.63
1:B:1125:ASN:HD22	1:B:1128:ARG:HD2	1.64	0.63
1:B:1640:HIS:HE1	1:B:1645:ASN:HA	1.64	0.63
1:B:1733:GLU:OE2	1:B:2163:ARG:NH1	2.32	0.63
1:B:2203:MET:N	1:B:2203:MET:SD	2.72	0.63
1:B:3227:ARG:HH21	1:B:3232:LEU:HD22	1.62	0.63
1:D:961:MET:HE2	1:D:966:LYS:CD	2.28	0.63
1:D:2420:HIS:HA	1:D:2423:MET:HE2	1.79	0.63
1:D:2584[A]:HIS:HD1	1:D:2625:ARG:HD3	1.63	0.63
1:D:3428:ASN:ND2	1:D:3430:ASN:OD1	2.29	0.63
1:D:3996:PHE:O	1:D:4000:MET:HG3	1.99	0.63
1:C:1733:GLU:OE2	1:C:2163:ARG:NH1	2.32	0.63
1:A:2553:TYR:HA	1:A:2556:LEU:HD12	1.80	0.62
1:A:4580:TYR:CD2	1:A:4632:LEU:HB2	2.33	0.62
2:E:105:LYS:NZ	2:E:107:GLU:HG3	2.13	0.62
1:B:1070:ASP:OD1	1:B:1241:SER:OG	2.16	0.62
1:B:1617:THR:HG22	1:B:1628:VAL:HG12	1.80	0.62
1:B:1804:LEU:HD13	1:B:1853:ILE:HG13	1.80	0.62
1:B:2420:HIS:HA	1:B:2423:MET:HE2	1.79	0.62
1:B:2697:ARG:HA	1:B:2700:MET:SD	2.39	0.62
1:D:179:TYR:N	1:D:194:SER:O	2.32	0.62
1:D:206:CYS:HB2	1:D:271:GLY:HA3	1.81	0.62
1:D:3005:LEU:HA	1:D:3008:GLN:HE21	1.63	0.62
1:D:3875:MET:HE2	1:D:3875:MET:N	2.14	0.62
1:C:296:ASP:OD2	1:C:297:GLN:NE2	2.28	0.62
1:C:3842:LEU:HB2	1:C:3929:SER:HB2	1.79	0.62
1:C:4732:PHE:O	1:C:4736:ARG:NE	2.32	0.62
1:A:329:ARG:NH2	1:A:330:ASP:O	2.32	0.62
1:B:973:SER:O	1:B:976:ARG:NH2	2.33	0.62
1:B:1254:HIS:HA	1:B:1276:THR:HG23	1.82	0.62
1:D:476:SER:O	1:D:480:GLU:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3092:LEU:HG	1:D:3096:PHE:CZ	2.34	0.62
1:C:476:SER:O	1:C:480:GLU:HG2	1.99	0.62
1:C:1676:LEU:HD11	1:C:2168:VAL:HA	1.81	0.62
1:C:2277:ALA:HB1	1:C:2337:PHE:HD2	1.63	0.62
1:C:2555:CYS:HB2	1:C:2599:GLN:HE21	1.63	0.62
1:A:4844:LEU:HB2	1:A:4928:LEU:HD21	1.81	0.62
1:B:790:ARG:NH1	1:B:1624:LEU:O	2.31	0.62
1:B:1457:TYR:HB2	1:B:1491:ASN:HB2	1.80	0.62
1:B:1676:LEU:HD11	1:B:2168:VAL:HA	1.81	0.62
1:B:1982:ARG:O	1:B:1982:ARG:NE	2.32	0.62
1:B:2623:LEU:O	1:B:2627:VAL:HG23	1.99	0.62
1:B:3366:ARG:HA	1:B:3441:ILE:HD11	1.82	0.62
1:D:273:HIS:ND1	1:D:335:GLY:O	2.32	0.62
1:D:1254:HIS:HA	1:D:1276:THR:HG23	1.82	0.62
1:D:2514:ASN:HB2	1:D:2517:PHE:HB3	1.81	0.62
1:D:3367:LYS:HE2	1:D:3371:LYS:HZ1	1.65	0.62
1:C:3996:PHE:O	1:C:4000:MET:HG3	1.99	0.62
1:A:712:TYR:HA	1:A:1470:ARG:HH21	1.64	0.62
1:A:1254:HIS:HA	1:A:1276:THR:HG23	1.82	0.62
1:A:2514:ASN:HB2	1:A:2517:PHE:HB3	1.81	0.62
1:B:598:LYS:O	1:B:602:VAL:HG23	2.00	0.62
1:B:1996:ARG:HA	1:B:1999:ARG:HB2	1.80	0.62
1:B:2318:TYR:OH	1:B:2416:VAL:O	2.16	0.62
1:B:2782:ASP:HB2	1:B:2785:LEU:HB2	1.81	0.62
1:D:598:LYS:O	1:D:602:VAL:HG23	2.00	0.62
1:D:2203:MET:N	1:D:2203:MET:SD	2.72	0.62
1:D:4732:PHE:O	1:D:4736:ARG:NE	2.32	0.62
1:D:4844:LEU:HB2	1:D:4928:LEU:HD21	1.81	0.62
1:C:973:SER:O	1:C:976:ARG:NH2	2.33	0.62
1:C:2201:LEU:HB2	1:C:2203:MET:HE1	1.81	0.62
1:C:2514:ASN:HB2	1:C:2517:PHE:HB3	1.81	0.62
1:A:850:ASP:OD1	1:A:850:ASP:N	2.33	0.62
1:A:1982:ARG:NE	1:A:1982:ARG:O	2.32	0.62
1:A:2318:TYR:OH	1:A:2416:VAL:O	2.16	0.62
1:A:2321:ILE:HD12	1:A:2418:LEU:HD21	1.82	0.62
1:A:2599:GLN:O	1:A:2603:ILE:HG13	2.00	0.62
1:A:3366:ARG:HA	1:A:3441:ILE:HD11	1.82	0.62
1:A:3367:LYS:HE2	1:A:3371:LYS:HZ1	1.64	0.62
2:E:78:PRO:HA	2:E:81:ALA:HB3	1.81	0.62
1:B:16:THR:HA	1:B:69:LEU:HD11	1.81	0.62
1:B:1451:GLY:HA3	1:B:1494:MET:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2321:ILE:HD12	1:B:2418:LEU:HD21	1.81	0.62
1:B:2514:ASN:HB2	1:B:2517:PHE:HB3	1.81	0.62
1:B:2555:CYS:HB2	1:B:2599:GLN:HE21	1.63	0.62
1:D:1125:ASN:HD22	1:D:1128:ARG:HD2	1.64	0.62
1:D:1162:PHE:HB3	1:D:1169:LEU:HD12	1.82	0.62
1:D:2321:ILE:HD12	1:D:2418:LEU:HD21	1.82	0.62
1:D:2599:GLN:O	1:D:2603:ILE:HG13	2.00	0.62
1:D:4782:VAL:O	1:D:4785:THR:OG1	2.14	0.62
1:C:1131:ARG:HH11	1:C:1139:PHE:HB2	1.64	0.62
1:C:1617:THR:HG22	1:C:1628:VAL:HG12	1.80	0.62
1:C:2599:GLN:O	1:C:2603:ILE:HG13	2.00	0.62
1:A:1131:ARG:HH11	1:A:1139:PHE:HB2	1.64	0.62
1:A:1162:PHE:HB3	1:A:1169:LEU:HD12	1.82	0.62
1:A:2420:HIS:HA	1:A:2423:MET:HE2	1.79	0.62
1:A:2452:ARG:NH1	1:B:174:VAL:O	2.32	0.62
1:A:2697:ARG:HA	1:A:2700:MET:SD	2.39	0.62
1:B:3359:ILE:HG12	1:B:3434:LEU:HD21	1.81	0.62
1:B:3575:LEU:HD21	1:C:1208:VAL:CG2	2.26	0.62
1:D:127:MET:SD	1:D:127:MET:N	2.64	0.62
1:D:239:ASP:OD2	1:D:239:ASP:N	2.32	0.62
1:D:4921:PHE:HA	1:D:4925:ILE:HD12	1.82	0.62
1:C:3092:LEU:HG	1:C:3096:PHE:CZ	2.34	0.62
1:C:3336:LYS:HZ3	1:C:3403:ARG:HG3	1.64	0.62
1:A:2453:ILE:HA	1:A:2456:ILE:HD12	1.81	0.62
1:A:2548:LEU:O	1:A:2552:ARG:HG2	2.00	0.62
1:A:3092:LEU:HG	1:A:3096:PHE:CZ	2.34	0.62
2:F:78:PRO:HD3	2:F:96:THR:HG22	1.80	0.62
1:B:2201:LEU:HB2	1:B:2203:MET:HE1	1.81	0.62
1:B:2277:ALA:HB1	1:B:2337:PHE:HD2	1.63	0.62
1:B:2576:ALA:HB2	1:B:2618:MET:HE2	1.82	0.62
1:D:2548:LEU:O	1:D:2552:ARG:HG2	2.00	0.62
1:D:4580:TYR:CD2	1:D:4632:LEU:HB2	2.33	0.62
1:C:273:HIS:ND1	1:C:335:GLY:O	2.32	0.62
1:C:1452:TRP:CD1	1:C:1452:TRP:H	2.18	0.62
1:C:2321:ILE:HD12	1:C:2418:LEU:HD21	1.81	0.62
1:C:2697:ARG:HA	1:C:2700:MET:SD	2.39	0.62
1:C:2883:HIS:HE1	1:C:2905:LEU:HD22	1.64	0.62
1:C:3322:ILE:HG13	1:C:3326:ASN:HD21	1.64	0.62
1:A:973:SER:O	1:A:976:ARG:NH2	2.33	0.62
1:A:2480:GLY:O	1:A:2484:ALA:N	2.33	0.62
1:A:3204:ALA:O	1:A:3211:ASN:ND2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4053:SER:O	1:A:4056:GLU:HG2	1.99	0.62
1:A:4248:ALA:HA	1:A:4251:ILE:HG12	1.81	0.62
1:A:4732:PHE:O	1:A:4736:ARG:NE	2.32	0.62
2:G:6:THR:HB	2:G:70:GLN:HE21	1.65	0.62
1:B:1162:PHE:HB3	1:B:1169:LEU:HD12	1.82	0.62
1:B:1452:TRP:CD1	1:B:1452:TRP:H	2.18	0.62
1:D:850:ASP:OD1	1:D:850:ASP:N	2.33	0.62
1:D:898:ASP:HB3	1:D:901:LYS:HD3	1.82	0.62
1:D:1290:ARG:O	1:D:1598:GLN:N	2.24	0.62
1:D:2782:ASP:HB2	1:D:2785:LEU:HB2	1.81	0.62
1:D:4711:PHE:HB3	1:D:4712:PRO:CD	2.30	0.62
1:C:1162:PHE:HB3	1:C:1169:LEU:HD12	1.82	0.62
1:C:2576:ALA:HB2	1:C:2618:MET:HE2	1.82	0.62
1:C:3242:ASP:N	1:C:3242:ASP:OD1	2.33	0.62
1:A:176:SER:HB2	1:A:178:ARG:HD2	1.81	0.62
1:A:598:LYS:O	1:A:602:VAL:HG23	2.00	0.62
1:A:4866:SER:N	1:A:4873:ASP:OD2	2.33	0.62
2:E:27:THR:HG23	2:E:38:SER:HB2	1.80	0.62
1:B:206:CYS:HB2	1:B:271:GLY:HA3	1.81	0.62
1:B:533:ASN:ND2	1:B:536:ASN:OD1	2.31	0.62
1:D:647:ASN:ND2	1:D:820:ARG:O	2.33	0.62
1:D:973:SER:O	1:D:976:ARG:NH2	2.33	0.62
1:D:3449:HIS:O	1:D:3453:ARG:HG3	2.00	0.62
1:C:1254:HIS:HA	1:C:1276:THR:HG23	1.82	0.62
1:C:2712:PRO:HB3	1:C:2956:ALA:HB2	1.82	0.62
1:C:3172:ILE:HD13	1:C:3194:LEU:HD22	1.82	0.62
1:A:647:ASN:ND2	1:A:820:ARG:O	2.33	0.62
1:A:894:GLY:HA3	1:A:903:LEU:HB3	1.82	0.62
1:A:1438:ARG:NH1	1:A:1513:ASP:OD1	2.33	0.62
1:A:1451:GLY:HA3	1:A:1494:MET:HA	1.81	0.62
1:A:4664:LEU:HB3	1:A:4665:LYS:HZ2	1.65	0.62
1:A:4711:PHE:HB3	1:A:4712:PRO:CD	2.30	0.62
2:E:26:TYR:N	2:E:39:SER:OG	2.29	0.62
1:B:1438:ARG:NH1	1:B:1513:ASP:OD1	2.33	0.62
1:B:3204:ALA:O	1:B:3211:ASN:ND2	2.33	0.62
1:B:3322:ILE:O	1:B:3326:ASN:ND2	2.33	0.62
1:D:2293:GLN:OE1	1:D:2293:GLN:N	2.24	0.62
1:D:2697:ARG:HA	1:D:2700:MET:SD	2.39	0.62
1:D:3359:ILE:HG12	1:D:3434:LEU:HD21	1.81	0.62
1:C:1451:GLY:HA3	1:C:1494:MET:HA	1.81	0.62
2:F:7:ILE:HB	2:F:71:ARG:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:349:GLN:OE1	1:B:350:HIS:N	2.33	0.61
1:B:2453:ILE:HA	1:B:2456:ILE:HD12	1.81	0.61
1:B:2599:GLN:O	1:B:2603:ILE:HG13	2.00	0.61
1:B:3449:HIS:O	1:B:3453:ARG:HG3	2.00	0.61
1:B:3996:PHE:O	1:B:4000:MET:HG3	1.99	0.61
1:D:894:GLY:HA3	1:D:903:LEU:HB3	1.82	0.61
1:D:1204:LEU:HB3	1:D:1226:PHE:HB3	1.82	0.61
1:D:2201:LEU:HB2	1:D:2203:MET:HE1	1.81	0.61
1:D:2712:PRO:HB3	1:D:2956:ALA:HB2	1.82	0.61
1:D:3767:GLN:NE2	1:D:3806:ASN:O	2.29	0.61
1:C:16:THR:HA	1:C:69:LEU:HD11	1.81	0.61
1:C:1125:ASN:HD22	1:C:1128:ARG:HD2	1.64	0.61
1:C:1727:ARG:HE	1:C:1730:MET:HE3	1.63	0.61
1:C:2517:PHE:O	1:C:2520:HIS:ND1	2.33	0.61
1:C:2644:LEU:O	1:C:2647:HIS:ND1	2.33	0.61
1:C:2798:SER:OG	1:C:2801:ASP:OD2	2.18	0.61
1:C:3069:HIS:HA	1:C:3142:THR:HG21	1.82	0.61
1:C:3158:LEU:O	1:C:3162:GLN:NE2	2.34	0.61
1:A:2576:ALA:HB2	1:A:2618:MET:HE2	1.82	0.61
1:A:4176:PRO:O	1:A:4202:ARG:NH1	2.33	0.61
1:B:898:ASP:HB3	1:B:901:LYS:HD3	1.82	0.61
1:B:2548:LEU:O	1:B:2552:ARG:HG2	2.00	0.61
1:B:3069:HIS:HA	1:B:3142:THR:HG21	1.82	0.61
1:B:4176:PRO:O	1:B:4202:ARG:NH1	2.33	0.61
1:B:4248:ALA:HA	1:B:4251:ILE:HG12	1.81	0.61
1:B:4866:SER:N	1:B:4873:ASP:OD2	2.33	0.61
1:D:3336:LYS:HZ3	1:D:3403:ARG:HG3	1.65	0.61
1:C:206:CYS:HB2	1:C:271:GLY:HA3	1.81	0.61
1:C:898:ASP:HB3	1:C:901:LYS:HD3	1.82	0.61
1:C:1640:HIS:HE1	1:C:1645:ASN:HA	1.64	0.61
1:C:2283:ASN:HD22	1:C:2286:LEU:HG	1.65	0.61
1:C:3204:ALA:O	1:C:3211:ASN:ND2	2.33	0.61
1:A:898:ASP:HB3	1:A:901:LYS:HD3	1.82	0.61
1:A:2782:ASP:HB2	1:A:2785:LEU:HB2	1.81	0.61
1:A:3069:HIS:HA	1:A:3142:THR:HG21	1.82	0.61
1:A:3172:ILE:HD13	1:A:3194:LEU:HD22	1.82	0.61
1:A:3359:ILE:HG12	1:A:3434:LEU:HD21	1.81	0.61
1:A:4582:VAL:CG2	1:B:4877:ASP:HA	2.30	0.61
2:G:40:ARG:CZ	1:C:674:PHE:CE2	2.83	0.61
1:B:712:TYR:HA	1:B:1470:ARG:HH21	1.64	0.61
1:D:283:ARG:HH12	1:D:285:VAL:HA	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3069:HIS:HA	1:D:3142:THR:HG21	1.82	0.61
1:D:3204:ALA:O	1:D:3211:ASN:ND2	2.33	0.61
1:D:4053:SER:O	1:D:4056:GLU:HG2	1.99	0.61
1:C:1263:THR:OG1	1:C:1265:ASP:OD2	2.18	0.61
1:C:2782:ASP:HB2	1:C:2785:LEU:HB2	1.81	0.61
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.36	0.61
1:A:3449:HIS:O	1:A:3453:ARG:HG3	2.00	0.61
2:H:13:ARG:HG3	2:H:14:THR:HG23	1.83	0.61
2:G:54:GLU:O	1:C:1785:ALA:N	2.32	0.61
1:B:2712:PRO:HB3	1:B:2956:ALA:HB2	1.82	0.61
1:B:2999:ALA:HA	1:B:3003:LEU:HD12	1.82	0.61
1:B:3092:LEU:HG	1:B:3096:PHE:CZ	2.34	0.61
1:B:3322:ILE:HG13	1:B:3326:ASN:HD21	1.64	0.61
1:B:3367:LYS:HE2	1:B:3371:LYS:HZ1	1.64	0.61
1:D:472:ARG:NH1	1:D:472:ARG:HA	2.16	0.61
1:D:3322:ILE:HG13	1:D:3326:ASN:HD21	1.64	0.61
1:C:850:ASP:N	1:C:850:ASP:OD1	2.33	0.61
1:C:2480:GLY:O	1:C:2484:ALA:N	2.33	0.61
1:C:3102:ASP:OD1	1:C:3105:LYS:NZ	2.30	0.61
1:A:1541:GLN:NE2	1:A:1542:VAL:O	2.34	0.61
1:A:3996:PHE:O	1:A:4000:MET:HG3	1.99	0.61
2:G:7:ILE:HG13	1:C:719:LEU:CD2	2.29	0.61
1:B:2644:LEU:O	1:B:2647:HIS:ND1	2.33	0.61
1:B:3539:ARG:HG3	1:B:3549:VAL:HG22	1.82	0.61
1:D:2480:GLY:O	1:D:2484:ALA:N	2.33	0.61
1:D:2566:ALA:HA	1:D:2569:PHE:HB2	1.82	0.61
1:D:2576:ALA:HB2	1:D:2618:MET:HE2	1.82	0.61
1:D:3322:ILE:O	1:D:3326:ASN:ND2	2.33	0.61
1:D:3324:VAL:O	1:D:3364:ARG:NH2	2.33	0.61
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.36	0.61
1:C:408:ALA:HB2	1:C:483:MET:HE1	1.83	0.61
1:C:765:GLN:OE1	1:C:765:GLN:N	2.30	0.61
1:C:1204:LEU:HB3	1:C:1226:PHE:HB3	1.82	0.61
1:C:1733:GLU:OE1	1:C:1733:GLU:N	2.27	0.61
1:C:1995:THR:O	1:C:1999:ARG:N	2.31	0.61
1:C:3136:LEU:O	1:C:3140:LEU:HG	2.01	0.61
1:C:3324:VAL:O	1:C:3364:ARG:NH2	2.33	0.61
1:C:3359:ILE:HG12	1:C:3434:LEU:HD21	1.81	0.61
1:A:1617:THR:HG22	1:A:1628:VAL:HG12	1.81	0.61
1:A:2515:GLN:OE1	1:A:2515:GLN:N	2.28	0.61
2:E:10:GLY:HA3	2:E:70:GLN:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:408:ALA:HB2	1:D:483:MET:HE1	1.83	0.61
1:D:2883:HIS:HE1	1:D:2905:LEU:HD22	1.64	0.61
1:D:4866:SER:N	1:D:4873:ASP:OD2	2.33	0.61
1:C:1438:ARG:NH1	1:C:1513:ASP:OD1	2.33	0.61
1:A:206:CYS:HB2	1:A:271:GLY:HA3	1.81	0.61
1:A:239:ASP:OD2	1:A:239:ASP:N	2.32	0.61
1:A:1125:ASN:HD22	1:A:1128:ARG:HD2	1.64	0.61
1:A:1296:GLN:NE2	1:A:1545:ASN:OD1	2.34	0.61
1:A:2724:GLU:HA	1:A:2738:ARG:HH22	1.65	0.61
2:F:7:ILE:CG2	1:B:737:LEU:HB2	2.31	0.61
1:B:1291:LEU:HD12	1:B:1550:PRO:HB2	1.83	0.61
1:B:2151:ASP:OD1	1:B:2188:ASN:ND2	2.34	0.61
1:B:2480:GLY:O	1:B:2484:ALA:N	2.33	0.61
1:B:4921:PHE:HA	1:B:4925:ILE:HD12	1.82	0.61
1:D:622:THR:HG23	1:D:626:LEU:HD12	1.83	0.61
1:D:4176:PRO:O	1:D:4202:ARG:NH1	2.33	0.61
1:C:472:ARG:NH1	1:C:472:ARG:HA	2.16	0.61
1:C:1160:ILE:O	1:C:1177:THR:OG1	2.18	0.61
1:C:2999:ALA:HA	1:C:3003:LEU:HD12	1.82	0.61
1:C:3449:HIS:O	1:C:3453:ARG:HG3	2.00	0.61
1:C:4866:SER:N	1:C:4873:ASP:OD2	2.33	0.61
1:A:533:ASN:ND2	1:A:536:ASN:OD1	2.31	0.61
1:A:2201:LEU:HB2	1:A:2203:MET:HE1	1.81	0.61
1:A:2566:ALA:HA	1:A:2569:PHE:HB2	1.82	0.61
1:A:3158:LEU:O	1:A:3162:GLN:NE2	2.33	0.61
1:A:3322:ILE:HG13	1:A:3326:ASN:HD21	1.64	0.61
1:A:3324:VAL:O	1:A:3364:ARG:NH2	2.33	0.61
1:A:3478:MET:HE2	1:B:1141:ARG:NH2	2.12	0.61
1:B:1653:LEU:HD21	1:B:1660:GLN:HA	1.82	0.61
1:B:4879:MET:HE2	1:B:4879:MET:HA	1.83	0.61
1:D:176:SER:HB2	1:D:178:ARG:HD2	1.81	0.61
1:D:218:HIS:N	1:D:261:ARG:HH22	1.98	0.61
1:D:1541:GLN:NE2	1:D:1542:VAL:O	2.34	0.61
1:D:2283:ASN:HD22	1:D:2286:LEU:HG	1.65	0.61
1:D:3836:MET:SD	1:D:3837:GLN:NE2	2.74	0.61
1:C:218:HIS:N	1:C:261:ARG:HH22	1.98	0.61
1:C:497:TYR:O	1:C:553:ARG:NH2	2.33	0.61
1:C:533:ASN:ND2	1:C:536:ASN:OD1	2.31	0.61
1:C:1291:LEU:HD12	1:C:1550:PRO:HB2	1.83	0.61
1:C:1296:GLN:NE2	1:C:1545:ASN:OD1	2.34	0.61
1:C:4921:PHE:HA	1:C:4925:ILE:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:HIS:N	1:A:261:ARG:HH22	1.98	0.61
1:A:1291:LEU:HD12	1:A:1550:PRO:HB2	1.83	0.61
2:E:15:PHE:H	2:E:17:LYS:NZ	1.99	0.61
1:B:1131:ARG:HH11	1:B:1139:PHE:HB2	1.64	0.61
1:B:1204:LEU:HB3	1:B:1226:PHE:HB3	1.82	0.61
1:B:3158:LEU:O	1:B:3162:GLN:NE2	2.33	0.61
1:B:3711:THR:O	1:B:3713:LYS:NZ	2.34	0.61
1:D:1653:LEU:HD21	1:D:1660:GLN:HA	1.82	0.61
1:C:154:SER:OG	1:C:155:LYS:N	2.34	0.61
1:C:598:LYS:O	1:C:602:VAL:HG23	2.00	0.61
1:C:1982:ARG:NE	1:C:1982:ARG:O	2.32	0.61
1:C:2724:GLU:HA	1:C:2738:ARG:HH22	1.65	0.61
1:C:4144:ALA:O	1:C:4148:THR:HG23	2.01	0.61
1:C:4711:PHE:HB3	1:C:4712:PRO:CD	2.30	0.61
1:A:622:THR:HG23	1:A:626:LEU:HD12	1.83	0.61
1:A:1204:LEU:HB3	1:A:1226:PHE:HB3	1.82	0.61
1:A:1653:LEU:HD21	1:A:1660:GLN:HA	1.82	0.61
1:A:1783:VAL:HG12	2:E:55:VAL:HG13	1.82	0.61
1:A:2679:PHE:HE2	1:A:2707:ALA:HB2	1.66	0.61
1:A:2712:PRO:HB3	1:A:2956:ALA:HB2	1.82	0.61
2:G:26:TYR:N	2:G:39:SER:OG	2.25	0.61
2:G:49:MET:HE3	2:G:52:LYS:HB2	1.82	0.61
1:B:239:ASP:OD2	1:B:239:ASP:N	2.32	0.61
1:B:296:ASP:OD2	1:B:297:GLN:NE2	2.28	0.61
1:B:904:HIS:HE2	1:B:906:CYS:HG	1.46	0.61
1:B:2724:GLU:HA	1:B:2738:ARG:HH22	1.65	0.61
1:B:3324:VAL:O	1:B:3364:ARG:NH2	2.33	0.61
1:C:2269:GLY:O	1:C:2330:ARG:NH2	2.34	0.61
1:C:3553:LEU:HD21	1:C:3596:VAL:HG11	1.83	0.61
1:C:3836:MET:SD	1:C:3837:GLN:NE2	2.74	0.61
1:A:408:ALA:HB2	1:A:483:MET:HE1	1.83	0.60
1:A:2430:ILE:HG13	1:A:2502:MET:HE1	1.83	0.60
1:A:2644:LEU:O	1:A:2647:HIS:ND1	2.33	0.60
1:A:2963:LEU:HD21	1:A:3006:ILE:HD11	1.83	0.60
1:A:4879:MET:HA	1:A:4879:MET:HE2	1.83	0.60
2:F:55:VAL:HG11	2:F:59:TRP:HE3	1.65	0.60
2:F:56:ILE:HD12	1:B:1783:VAL:O	2.00	0.60
1:B:176:SER:HB2	1:B:178:ARG:HD2	1.81	0.60
1:D:1451:GLY:HA3	1:D:1494:MET:HA	1.81	0.60
1:D:2517:PHE:O	1:D:2520:HIS:ND1	2.33	0.60
1:D:4952:GLU:O	1:D:4956:THR:OG1	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2203:MET:N	1:C:2203:MET:SD	2.72	0.60
1:C:3366:ARG:HA	1:C:3441:ILE:HD11	1.82	0.60
1:A:755:ILE:HD12	1:A:768:PHE:HD2	1.67	0.60
1:A:765:GLN:N	1:A:765:GLN:OE1	2.30	0.60
1:B:622:THR:HG23	1:B:626:LEU:HD12	1.83	0.60
1:B:2283:ASN:HD22	1:B:2286:LEU:HG	1.65	0.60
1:B:3136:LEU:O	1:B:3140:LEU:HG	2.01	0.60
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.36	0.60
1:B:4580:TYR:CD2	1:B:4632:LEU:HB2	2.33	0.60
1:D:1160:ILE:O	1:D:1177:THR:OG1	2.18	0.60
1:D:2515:GLN:OE1	1:D:2515:GLN:N	2.28	0.60
1:D:2724:GLU:HA	1:D:2738:ARG:HH22	1.65	0.60
1:D:3172:ILE:HD13	1:D:3194:LEU:HD22	1.82	0.60
1:D:3366:ARG:HA	1:D:3441:ILE:HD11	1.81	0.60
1:D:3539:ARG:HG3	1:D:3549:VAL:HG22	1.82	0.60
1:C:2151:ASP:OD1	1:C:2188:ASN:ND2	2.34	0.60
1:C:2548:LEU:O	1:C:2552:ARG:HG2	2.00	0.60
1:C:2698:MET:HE3	1:C:2698:MET:O	2.01	0.60
1:C:3723:MET:HA	1:C:3723:MET:HE3	1.84	0.60
1:C:3989:VAL:HG22	1:C:4023:MET:HE1	1.82	0.60
1:C:4176:PRO:O	1:C:4202:ARG:NH1	2.33	0.60
1:A:38:ALA:HB1	1:A:64:ILE:HG13	1.83	0.60
1:A:283:ARG:HH12	1:A:285:VAL:HA	1.66	0.60
1:A:1160:ILE:O	1:A:1177:THR:OG1	2.18	0.60
1:A:1995:THR:O	1:A:1999:ARG:N	2.31	0.60
1:A:4144:ALA:O	1:A:4148:THR:HG23	2.01	0.60
1:B:1160:ILE:O	1:B:1177:THR:OG1	2.18	0.60
1:B:1541:GLN:NE2	1:B:1542:VAL:O	2.34	0.60
1:B:3989:VAL:HG22	1:B:4023:MET:HE1	1.82	0.60
1:B:4664:LEU:HB3	1:B:4665:LYS:HZ2	1.66	0.60
1:D:3282:PRO:O	1:D:3285:TRP:N	2.35	0.60
1:D:4664:LEU:HB3	1:D:4665:LYS:HZ2	1.65	0.60
1:C:349:GLN:OE1	1:C:350:HIS:N	2.33	0.60
1:C:2318:TYR:OH	1:C:2416:VAL:O	2.16	0.60
1:C:4952:GLU:O	1:C:4956:THR:OG1	2.19	0.60
1:A:472:ARG:HA	1:A:472:ARG:NH1	2.16	0.60
1:A:1246:GLU:O	1:A:1599:MET:N	2.31	0.60
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.36	0.60
1:A:3723:MET:HA	1:A:3723:MET:HE3	1.84	0.60
1:A:3836:MET:SD	1:A:3837:GLN:NE2	2.74	0.60
2:H:78:PRO:HA	2:H:81:ALA:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1296:GLN:NE2	1:B:1545:ASN:OD1	2.34	0.60
1:B:2963:LEU:HD21	1:B:3006:ILE:HD11	1.83	0.60
1:B:4144:ALA:O	1:B:4148:THR:HG23	2.01	0.60
1:D:1438:ARG:NH1	1:D:1513:ASP:OD1	2.33	0.60
1:D:3158:LEU:O	1:D:3162:GLN:NE2	2.34	0.60
1:D:3590:GLU:H	1:D:3590:GLU:CD	2.09	0.60
1:C:3981:ALA:HA	1:C:3986:TRP:CZ2	2.36	0.60
1:A:2269:GLY:O	1:A:2330:ARG:NH2	2.34	0.60
1:A:3553:LEU:HD21	1:A:3596:VAL:HG11	1.83	0.60
2:E:55:VAL:HG11	2:E:59:TRP:CE3	2.37	0.60
1:B:283:ARG:HH12	1:B:285:VAL:HA	1.66	0.60
1:B:408:ALA:HB2	1:B:483:MET:HE1	1.83	0.60
1:B:894:GLY:HA3	1:B:903:LEU:HB3	1.82	0.60
1:B:3723:MET:HE3	1:B:3723:MET:HA	1.84	0.60
1:B:3836:MET:SD	1:B:3837:GLN:NE2	2.74	0.60
1:D:1452:TRP:CD1	1:D:1452:TRP:H	2.18	0.60
1:D:2151:ASP:OD1	1:D:2188:ASN:ND2	2.34	0.60
1:D:2698:MET:O	1:D:2698:MET:HE3	2.01	0.60
1:C:69:LEU:HA	1:C:109:LEU:HA	1.84	0.60
1:C:176:SER:HB2	1:C:178:ARG:HD2	1.81	0.60
1:C:1754:GLY:O	1:C:1758:ARG:N	2.34	0.60
1:C:3655:GLU:HA	1:C:3658:LYS:HE3	1.83	0.60
1:A:69:LEU:HA	1:A:109:LEU:HA	1.84	0.60
1:A:1754:GLY:O	1:A:1758:ARG:N	2.35	0.60
1:A:2151:ASP:OD1	1:A:2188:ASN:ND2	2.34	0.60
1:A:2698:MET:O	1:A:2698:MET:HE3	2.01	0.60
1:B:218:HIS:N	1:B:261:ARG:HH22	1.98	0.60
1:B:1263:THR:OG1	1:B:1265:ASP:OD2	2.18	0.60
1:B:1857:GLU:OE2	1:B:1861:GLN:NE2	2.35	0.60
1:B:2269:GLY:O	1:B:2330:ARG:NH2	2.34	0.60
1:B:2698:MET:O	1:B:2698:MET:HE3	2.01	0.60
1:B:3172:ILE:HD13	1:B:3194:LEU:HD22	1.82	0.60
1:B:3553:LEU:HD21	1:B:3596:VAL:HG11	1.83	0.60
1:B:4711:PHE:HB3	1:B:4712:PRO:CD	2.30	0.60
1:D:349:GLN:OE1	1:D:350:HIS:N	2.33	0.60
1:D:984:LEU:HA	1:D:987:ARG:HE	1.66	0.60
1:D:1291:LEU:HD12	1:D:1550:PRO:HB2	1.83	0.60
1:D:3358:PHE:O	1:D:3362:ILE:HG12	2.01	0.60
1:C:1541:GLN:NE2	1:C:1542:VAL:O	2.34	0.60
1:C:2639:MET:SD	1:C:2639:MET:N	2.72	0.60
1:C:3250:MET:N	1:C:3250:MET:SD	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:LEU:HA	1:A:987:ARG:HE	1.66	0.60
1:A:1974:ARG:HH21	1:A:3642:TYR:HB2	1.67	0.60
1:A:3590:GLU:CD	1:A:3590:GLU:H	2.09	0.60
1:B:472:ARG:NH1	1:B:472:ARG:HA	2.16	0.60
1:B:2679:PHE:HE2	1:B:2707:ALA:HB2	1.66	0.60
1:D:755:ILE:HD12	1:D:768:PHE:HD2	1.66	0.60
1:D:2269:GLY:O	1:D:2330:ARG:NH2	2.34	0.60
1:D:2644:LEU:O	1:D:2647:HIS:ND1	2.33	0.60
1:D:2679:PHE:HE2	1:D:2707:ALA:HB2	1.66	0.60
1:D:4689:THR:OG1	1:D:4690:GLU:OE1	2.16	0.60
1:D:4879:MET:HA	1:D:4879:MET:HE2	1.83	0.60
1:C:622:THR:HG23	1:C:626:LEU:HD12	1.83	0.60
1:C:1653:LEU:HD21	1:C:1660:GLN:HA	1.82	0.60
1:C:2679:PHE:HE2	1:C:2707:ALA:HB2	1.66	0.60
1:A:349:GLN:OE1	1:A:350:HIS:N	2.33	0.60
1:A:531:ARG:NH1	1:A:566:CYS:SG	2.75	0.60
1:A:2283:ASN:HD22	1:A:2286:LEU:HG	1.65	0.60
1:A:3446:SER:O	1:A:3452:LYS:NZ	2.35	0.60
1:A:3539:ARG:HG3	1:A:3549:VAL:HG22	1.82	0.60
2:F:105:LYS:NZ	2:F:106:LEU:H	2.00	0.60
1:B:38:ALA:HB1	1:B:64:ILE:HG13	1.83	0.60
1:B:755:ILE:HD12	1:B:768:PHE:HD2	1.67	0.60
1:B:3655:GLU:HA	1:B:3658:LYS:HE3	1.83	0.60
1:D:1982:ARG:NE	1:D:1982:ARG:O	2.32	0.60
1:D:2318:TYR:OH	1:D:2416:VAL:O	2.16	0.60
1:D:2621:HIS:NE2	1:D:2915:GLU:OE2	2.35	0.60
1:D:3711:THR:O	1:D:3713:LYS:NZ	2.34	0.60
1:D:3723:MET:HA	1:D:3723:MET:HE3	1.84	0.60
1:D:3989:VAL:HG22	1:D:4023:MET:HE1	1.82	0.60
1:C:1981:MET:N	1:C:1981:MET:SD	2.75	0.60
1:C:3282:PRO:O	1:C:3285:TRP:N	2.34	0.60
1:C:3788:GLY:HA3	1:C:3834:ALA:HB3	1.84	0.60
1:C:3947:GLY:O	1:C:3951:PHE:HD1	1.85	0.60
1:C:4580:TYR:CD2	1:C:4632:LEU:HB2	2.33	0.60
1:A:717:ASP:HB2	1:A:722:TRP:CD1	2.37	0.60
1:A:1674:CYS:HB2	1:A:1685:LEU:HD11	1.84	0.60
1:A:2433:LEU:HD11	1:A:2457:LEU:HD22	1.84	0.60
1:A:3282:PRO:O	1:A:3285:TRP:N	2.35	0.60
1:A:3989:VAL:HG22	1:A:4023:MET:HE1	1.82	0.60
2:E:20:GLN:OE1	2:E:20:GLN:N	2.35	0.60
2:H:59:TRP:CE3	1:D:1783:VAL:HG11	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:105:LYS:NZ	2:H:106:LEU:O	2.34	0.60
1:B:213:TYR:H	1:B:341:TYR:H	1.50	0.60
1:B:4157:ASP:OD1	1:B:4159:ARG:NE	2.35	0.60
1:D:1263:THR:OG1	1:D:1265:ASP:OD2	2.18	0.60
1:D:1296:GLN:NE2	1:D:1545:ASN:OD1	2.34	0.60
1:C:283:ARG:HH12	1:C:285:VAL:HA	1.66	0.60
1:C:717:ASP:HB2	1:C:722:TRP:CD1	2.37	0.60
1:A:1857:GLU:OE2	1:A:1861:GLN:NE2	2.35	0.60
1:A:3358:PHE:O	1:A:3362:ILE:HG12	2.01	0.60
1:A:4157:ASP:OD1	1:A:4159:ARG:NE	2.35	0.60
1:A:4921:PHE:HA	1:A:4925:ILE:HD12	1.82	0.60
2:H:57:ARG:HH22	2:H:80:TYR:HA	1.67	0.60
1:B:233:ILE:O	1:B:257:ARG:NH2	2.21	0.60
1:B:531:ARG:NH1	1:B:566:CYS:SG	2.75	0.60
1:B:2265:LEU:HD12	1:B:2330:ARG:HB2	1.84	0.60
1:D:1674:CYS:HB2	1:D:1685:LEU:HD11	1.84	0.60
1:D:3947:GLY:O	1:D:3951:PHE:HD1	1.85	0.60
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.84	0.60
1:C:3322:ILE:O	1:C:3326:ASN:ND2	2.33	0.60
1:A:817:PRO:O	1:A:820:ARG:NH2	2.31	0.59
1:A:2639:MET:SD	1:A:2639:MET:N	2.72	0.59
1:A:3136:LEU:O	1:A:3140:LEU:HG	2.01	0.59
1:A:3322:ILE:O	1:A:3326:ASN:ND2	2.33	0.59
1:A:3711:THR:O	1:A:3713:LYS:NZ	2.34	0.59
2:H:94:HIS:ND1	2:H:94:HIS:O	2.35	0.59
1:B:439:GLU:OE2	1:B:439:GLU:N	2.25	0.59
1:B:984:LEU:HA	1:B:987:ARG:HE	1.66	0.59
1:B:2639:MET:SD	1:B:2639:MET:N	2.72	0.59
1:B:3250:MET:N	1:B:3250:MET:SD	2.75	0.59
1:B:3282:PRO:O	1:B:3285:TRP:N	2.35	0.59
1:B:3788:GLY:HA3	1:B:3834:ALA:HB3	1.84	0.59
1:D:1808:ARG:NH1	1:D:1853:ILE:O	2.35	0.59
1:D:1965:TYR:CZ	1:D:1969:LEU:HD21	2.37	0.59
1:D:2158:CYS:O	1:D:2162:ILE:HG12	2.03	0.59
1:D:2518:LEU:HD22	1:D:2565:CYS:HB3	1.84	0.59
1:D:3250:MET:N	1:D:3250:MET:SD	2.75	0.59
1:D:3446:SER:O	1:D:3452:LYS:NZ	2.35	0.59
1:D:4144:ALA:O	1:D:4148:THR:HG23	2.01	0.59
1:C:894:GLY:HA3	1:C:903:LEU:HB3	1.82	0.59
1:C:1170:MET:HE3	1:C:1171:SER:O	2.03	0.59
1:C:1674:CYS:HB2	1:C:1685:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2566:ALA:HA	1:C:2569:PHE:HB2	1.82	0.59
1:C:3670:GLU:HB3	1:C:3728:ILE:HG23	1.84	0.59
1:A:1263:THR:OG1	1:A:1265:ASP:OD2	2.18	0.59
1:A:1717:SER:HA	1:A:1721:GLU:HB3	1.84	0.59
1:A:1732:SER:O	1:A:2140:ARG:NE	2.35	0.59
1:A:3991:GLY:O	1:A:3994:HIS:ND1	2.36	0.59
2:G:59:TRP:CE3	1:C:1783:VAL:HG11	2.37	0.59
1:B:717:ASP:HB2	1:B:722:TRP:CD1	2.37	0.59
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.34	0.59
1:B:2621:HIS:NE2	1:B:2915:GLU:OE2	2.35	0.59
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.84	0.59
1:B:3590:GLU:H	1:B:3590:GLU:CD	2.09	0.59
1:D:1974:ARG:HH21	1:D:3642:TYR:HB2	1.67	0.59
1:D:2442:LEU:H	1:D:2444:GLN:HE21	1.50	0.59
1:D:3136:LEU:O	1:D:3140:LEU:HG	2.01	0.59
1:D:3315:LEU:HA	1:D:3318:ASN:HD22	1.67	0.59
1:D:3553:LEU:HD21	1:D:3596:VAL:HG11	1.83	0.59
1:C:1732:SER:O	1:C:2140:ARG:NE	2.35	0.59
1:C:2621:HIS:NE2	1:C:2915:GLU:OE2	2.35	0.59
1:C:3539:ARG:HG3	1:C:3549:VAL:HG22	1.82	0.59
1:A:213:TYR:H	1:A:341:TYR:H	1.50	0.59
1:A:1965:TYR:CZ	1:A:1969:LEU:HD21	2.37	0.59
1:A:2442:LEU:H	1:A:2444:GLN:HE21	1.50	0.59
1:A:2621:HIS:NE2	1:A:2915:GLU:OE2	2.35	0.59
1:A:2999:ALA:HA	1:A:3003:LEU:HD12	1.82	0.59
1:A:3970:GLN:HE21	1:A:5004:THR:HA	1.67	0.59
1:A:4556:SER:HB2	1:A:4664:LEU:HD13	1.83	0.59
2:G:88:PRO:HA	1:C:623:GLU:OE1	2.02	0.59
1:B:647:ASN:ND2	1:B:820:ARG:O	2.33	0.59
1:B:1965:TYR:CZ	1:B:1969:LEU:HD21	2.37	0.59
1:B:4873:ASP:OD1	1:B:4875:LYS:NZ	2.36	0.59
1:D:46:LEU:HD13	1:D:134:ASP:HB2	1.84	0.59
1:D:261:ARG:NH2	1:D:262:LEU:O	2.28	0.59
1:D:1717:SER:HA	1:D:1721:GLU:HB3	1.84	0.59
1:D:2627:VAL:HG13	1:D:2678:LEU:HD21	1.84	0.59
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.84	0.59
1:D:3991:GLY:O	1:D:3994:HIS:ND1	2.36	0.59
1:C:261:ARG:NH2	1:C:262:LEU:O	2.28	0.59
1:C:472:ARG:NH1	1:C:475:GLN:OE1	2.35	0.59
1:C:913:LEU:HD23	1:C:918:ARG:HG2	1.84	0.59
1:C:1857:GLU:OE2	1:C:1861:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2265:LEU:HD12	1:C:2330:ARG:HB2	1.84	0.59
1:C:2430:ILE:HG13	1:C:2502:MET:HE1	1.83	0.59
1:C:3358:PHE:O	1:C:3362:ILE:HG12	2.01	0.59
1:C:3446:SER:O	1:C:3452:LYS:NZ	2.35	0.59
1:C:3590:GLU:CD	1:C:3590:GLU:H	2.09	0.59
1:C:3991:GLY:O	1:C:3994:HIS:ND1	2.36	0.59
1:A:261:ARG:NH2	1:A:262:LEU:O	2.28	0.59
1:A:1981:MET:N	1:A:1981:MET:SD	2.75	0.59
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.34	0.59
1:A:3592:ILE:O	1:A:3596:VAL:HG23	2.03	0.59
1:A:3788:GLY:HA3	1:A:3834:ALA:HB3	1.84	0.59
2:E:105:LYS:HD2	2:E:106:LEU:N	2.17	0.59
1:B:1733:GLU:OE1	1:B:1733:GLU:N	2.27	0.59
1:B:1981:MET:N	1:B:1981:MET:SD	2.75	0.59
1:B:2566:ALA:HA	1:B:2569:PHE:HB2	1.82	0.59
1:B:2868:SER:HB3	1:B:2871:LEU:HD22	1.84	0.59
1:B:3446:SER:O	1:B:3452:LYS:NZ	2.35	0.59
1:B:3947:GLY:O	1:B:3951:PHE:HD1	1.85	0.59
1:D:531:ARG:NH1	1:D:566:CYS:SG	2.75	0.59
1:D:717:ASP:HB2	1:D:722:TRP:CD1	2.37	0.59
1:D:1732:SER:O	1:D:2140:ARG:NE	2.35	0.59
1:D:2265:LEU:HD12	1:D:2330:ARG:HB2	1.84	0.59
1:D:2999:ALA:HA	1:D:3003:LEU:HD12	1.82	0.59
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.84	0.59
1:C:1974:ARG:HH21	1:C:3642:TYR:HB2	1.67	0.59
1:C:2741:GLU:HG2	1:C:2743:LEU:HD23	1.85	0.59
1:C:3763:LEU:HA	1:C:3766:GLN:OE1	2.02	0.59
1:A:46:LEU:HD13	1:A:134:ASP:HB2	1.84	0.59
1:A:234:SER:O	1:A:242:ARG:NE	2.34	0.59
1:A:472:ARG:NH1	1:A:475:GLN:OE1	2.35	0.59
1:A:1170:MET:HE3	1:A:1171:SER:O	2.02	0.59
1:A:1616:GLU:OE1	1:A:1616:GLU:N	2.36	0.59
1:A:3250:MET:N	1:A:3250:MET:SD	2.75	0.59
1:A:3793:MET:HA	1:A:3793:MET:HE3	1.85	0.59
1:A:4681:LEU:HD13	1:A:4724:VAL:HG21	1.85	0.59
1:B:181:HIS:ND1	1:B:198:THR:OG1	2.28	0.59
1:B:2430:ILE:HG13	1:B:2502:MET:HE1	1.83	0.59
1:B:3763:LEU:HA	1:B:3766:GLN:OE1	2.02	0.59
1:D:213:TYR:H	1:D:341:TYR:H	1.50	0.59
1:D:472:ARG:NH1	1:D:475:GLN:OE1	2.35	0.59
1:D:1543:GLU:O	1:D:1546:THR:OG1	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2799:GLU:HA	1:D:2802:LYS:HG3	1.84	0.59
1:D:4564:PHE:HA	1:D:4567:LEU:HG	1.85	0.59
1:D:5013:MET:HG2	1:D:5021:PHE:HB3	1.84	0.59
1:C:120:CYS:HA	1:C:135:VAL:HA	1.84	0.59
1:C:181:HIS:ND1	1:C:198:THR:OG1	2.28	0.59
1:C:1476:MET:HA	1:C:1476:MET:HE3	1.85	0.59
1:C:2226:PRO:HB2	1:C:2268[A]:GLN:HE21	1.67	0.59
1:C:3722:TYR:HD2	1:C:3793:MET:HE2	1.67	0.59
1:C:3767:GLN:NE2	1:C:3806:ASN:O	2.29	0.59
1:A:497:TYR:O	1:A:553:ARG:NH2	2.33	0.59
1:A:2799:GLU:HA	1:A:2802:LYS:HG3	1.84	0.59
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.84	0.59
1:A:3354:LEU:HG	1:A:3358:PHE:HB3	1.85	0.59
1:A:3655:GLU:HA	1:A:3658:LYS:HE3	1.83	0.59
1:A:4873:ASP:OD1	1:A:4875:LYS:NZ	2.36	0.59
1:B:1616:GLU:OE1	1:B:1616:GLU:N	2.36	0.59
1:B:3333:THR:OG1	1:B:3337:ARG:NH1	2.35	0.59
1:B:3358:PHE:O	1:B:3362:ILE:HG12	2.01	0.59
1:D:913:LEU:HD23	1:D:918:ARG:HG2	1.84	0.59
1:D:1170:MET:HE3	1:D:1171:SER:O	2.02	0.59
1:D:1857:GLU:OE2	1:D:1861:GLN:NE2	2.35	0.59
1:D:3333:THR:OG1	1:D:3337:ARG:NH1	2.35	0.59
1:D:3655:GLU:HA	1:D:3658:LYS:HE3	1.83	0.59
1:D:4681:LEU:HD13	1:D:4724:VAL:HG21	1.85	0.59
1:C:119:SER:O	1:C:136:GLY:N	2.33	0.59
1:C:1965:TYR:CZ	1:C:1969:LEU:HD21	2.37	0.59
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.34	0.59
1:C:2111:VAL:HB	1:C:2117:VAL:HG22	1.85	0.59
1:C:2433:LEU:HD11	1:C:2457:LEU:HD22	1.84	0.59
1:C:4873:ASP:OD1	1:C:4875:LYS:NZ	2.36	0.59
1:C:4879:MET:HE2	1:C:4879:MET:HA	1.83	0.59
1:A:685:GLY:HA3	1:A:715:GLY:HA2	1.85	0.59
1:A:1221:GLU:OE2	1:A:1221:GLU:N	2.27	0.59
1:A:2517:PHE:O	1:A:2520:HIS:ND1	2.33	0.59
1:A:2970:SER:HA	1:A:2973:PHE:CD2	2.38	0.59
1:A:3670:GLU:HB3	1:A:3728:ILE:HG23	1.84	0.59
1:A:3763:LEU:HA	1:A:3766:GLN:OE1	2.02	0.59
1:B:69:LEU:HA	1:B:109:LEU:HA	1.84	0.59
1:B:497:TYR:O	1:B:553:ARG:NH2	2.33	0.59
1:B:1754:GLY:O	1:B:1758:ARG:N	2.35	0.59
1:B:2782:ASP:OD1	1:B:2787:THR:OG1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1981:MET:SD	1:D:1981:MET:N	2.75	0.59
1:D:2111:VAL:HB	1:D:2117:VAL:HG22	1.85	0.59
1:D:2868:SER:HB3	1:D:2871:LEU:HD22	1.84	0.59
1:D:3244:PRO:HD2	1:D:3249:LEU:HD21	1.85	0.59
1:D:3793:MET:HA	1:D:3793:MET:HE3	1.85	0.59
1:C:3272:ILE:C	1:C:3275:PRO:HD2	2.28	0.59
1:A:119:SER:O	1:A:136:GLY:N	2.33	0.59
1:A:1277:TRP:HD1	1:A:1559:GLN:HG3	1.68	0.59
1:A:2226:PRO:HB2	1:A:2268[A]:GLN:HE21	1.67	0.59
1:A:2265:LEU:HD12	1:A:2330:ARG:HB2	1.84	0.59
1:A:2518:LEU:HD22	1:A:2565:CYS:HB3	1.84	0.59
1:A:3242:ASP:N	1:A:3242:ASP:OD1	2.33	0.59
2:E:21:THR:HA	2:E:49:MET:HA	1.83	0.59
1:B:1170:MET:HE3	1:B:1171:SER:O	2.02	0.59
1:B:2111:VAL:HB	1:B:2117:VAL:HG22	1.85	0.59
1:B:2669:GLU:HA	1:B:2672:LEU:HB2	1.85	0.59
1:D:685:GLY:HA3	1:D:715:GLY:HA2	1.85	0.59
1:D:1754:GLY:O	1:D:1758:ARG:N	2.35	0.59
1:D:2430:ILE:HG13	1:D:2502:MET:HE1	1.83	0.59
1:D:2433:LEU:HD11	1:D:2457:LEU:HD22	1.84	0.59
1:D:2640:PRO:HA	1:D:2643:LEU:HG	1.85	0.59
1:D:2669:GLU:HA	1:D:2672:LEU:HB2	1.85	0.59
1:D:2963:LEU:HD21	1:D:3006:ILE:HD11	1.83	0.59
1:D:3566:SER:H	1:D:3569:LEU:HD12	1.67	0.59
1:D:3788:GLY:HA3	1:D:3834:ALA:HB3	1.84	0.59
1:D:4556:SER:HB2	1:D:4664:LEU:HD13	1.83	0.59
1:C:115:ARG:HD2	1:C:395:GLN:HE22	1.68	0.59
1:C:1616:GLU:N	1:C:1616:GLU:OE1	2.36	0.59
1:C:2348:GLU:O	1:C:2352:VAL:HG23	2.02	0.59
1:C:3333:THR:OG1	1:C:3337:ARG:NH1	2.35	0.59
1:C:3836:MET:C	1:C:3836:MET:HE2	2.28	0.59
1:A:2669:GLU:HA	1:A:2672:LEU:HB2	1.85	0.59
1:A:3333:THR:OG1	1:A:3337:ARG:NH1	2.35	0.59
1:A:3947:GLY:O	1:A:3951:PHE:HD1	1.85	0.59
1:B:467:LYS:NZ	1:B:471:LEU:HB2	2.17	0.59
1:B:817:PRO:O	1:B:820:ARG:NH2	2.31	0.59
1:B:1476:MET:HA	1:B:1476:MET:HE3	1.85	0.59
1:B:2627:VAL:HG13	1:B:2678:LEU:HD21	1.84	0.59
1:B:2799:GLU:HA	1:B:2802:LYS:HG3	1.84	0.59
1:B:4556:SER:HB2	1:B:4664:LEU:HD13	1.83	0.59
1:D:2516:ASP:OD1	1:D:2516:ASP:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3272:ILE:C	1:D:3275:PRO:HD2	2.28	0.59
1:C:38:ALA:HB1	1:C:64:ILE:HG13	1.83	0.59
1:C:213:TYR:H	1:C:341:TYR:H	1.50	0.59
1:C:239:ASP:OD2	1:C:239:ASP:N	2.32	0.59
1:C:531:ARG:NH1	1:C:566:CYS:SG	2.75	0.59
1:C:3354:LEU:HG	1:C:3358:PHE:HB3	1.85	0.59
1:C:3819:TYR:O	1:C:3823:LYS:HG2	2.03	0.59
1:C:4681:LEU:HD13	1:C:4724:VAL:HG21	1.85	0.59
1:A:1452:TRP:CD1	1:A:1452:TRP:H	2.18	0.59
1:A:1979:LEU:O	1:A:1983:ALA:N	2.34	0.59
1:A:3272:ILE:C	1:A:3275:PRO:HD2	2.28	0.59
1:A:3819:TYR:O	1:A:3823:LYS:HG2	2.03	0.59
1:A:4001:MET:O	1:A:4005:GLN:NE2	2.34	0.59
1:B:472:ARG:NH1	1:B:475:GLN:OE1	2.35	0.59
1:B:1732:SER:O	1:B:2140:ARG:NE	2.35	0.59
1:B:3244:PRO:HD2	1:B:3249:LEU:HD21	1.85	0.59
1:B:4001:MET:O	1:B:4005:GLN:NE2	2.34	0.59
1:D:404:ILE:HG21	1:D:481:GLU:HG3	1.85	0.59
1:D:771:PHE:HB3	1:D:1472:VAL:HG23	1.85	0.59
1:D:1220:GLN:OE1	1:C:3522:LEU:CB	2.50	0.59
1:D:2970:SER:HA	1:D:2973:PHE:CD2	2.38	0.59
1:D:3722:TYR:HD2	1:D:3793:MET:HE2	1.67	0.59
1:D:3763:LEU:HA	1:D:3766:GLN:OE1	2.02	0.59
1:D:3970:GLN:HE21	1:D:5004:THR:HA	1.67	0.59
1:C:467:LYS:NZ	1:C:471:LEU:HB2	2.17	0.59
1:C:2782:ASP:OD1	1:C:2787:THR:OG1	2.21	0.59
1:C:2963:LEU:HD21	1:C:3006:ILE:HD11	1.83	0.59
1:C:2967:MET:HE3	1:C:3042:LEU:HD22	1.85	0.59
1:C:3566:SER:H	1:C:3569:LEU:HD12	1.67	0.59
1:C:4564:PHE:HA	1:C:4567:LEU:HG	1.85	0.59
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.84	0.59
1:A:916:PRO:HA	1:A:919:ASN:HD22	1.68	0.58
1:A:1745:ILE:O	1:A:1964:ARG:NH2	2.36	0.58
1:A:2158:CYS:O	1:A:2162:ILE:HG12	2.02	0.58
1:A:5013:MET:HG2	1:A:5021:PHE:HB3	1.84	0.58
2:H:8:SER:HB3	2:H:71:ARG:HB3	1.85	0.58
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.84	0.58
1:B:15:ARG:HA	1:B:100:THR:HA	1.84	0.58
1:B:904:HIS:NE2	1:B:906:CYS:SG	2.73	0.58
1:B:915:GLU:OE1	1:B:915:GLU:N	2.36	0.58
1:B:916:PRO:HA	1:B:919:ASN:HD22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2158:CYS:O	1:B:2162:ILE:HG12	2.02	0.58
1:B:3267:PRO:O	1:B:3271:GLU:HB2	2.03	0.58
1:B:3315:LEU:O	1:B:3319:ILE:HG12	2.03	0.58
1:B:3315:LEU:HA	1:B:3318:ASN:HD22	1.67	0.58
1:B:3354:LEU:HG	1:B:3358:PHE:HB3	1.85	0.58
1:B:3428:ASN:ND2	1:B:3430:ASN:OD1	2.29	0.58
1:B:3793:MET:HA	1:B:3793:MET:HE3	1.85	0.58
1:B:3836:MET:C	1:B:3836:MET:HE2	2.28	0.58
1:D:69:LEU:HA	1:D:109:LEU:HA	1.84	0.58
1:D:181:HIS:ND1	1:D:198:THR:OG1	2.28	0.58
1:D:467:LYS:NZ	1:D:471:LEU:HB2	2.17	0.58
1:D:817:PRO:O	1:D:820:ARG:NH2	2.31	0.58
1:D:3242:ASP:N	1:D:3242:ASP:OD1	2.33	0.58
1:D:3434:LEU:O	1:D:3438:VAL:HG12	2.03	0.58
1:D:3670:GLU:HB3	1:D:3728:ILE:HG23	1.84	0.58
1:C:915:GLU:N	1:C:915:GLU:OE1	2.36	0.58
1:C:984:LEU:HA	1:C:987:ARG:HE	1.66	0.58
1:C:2799:GLU:HA	1:C:2802:LYS:HG3	1.84	0.58
1:C:3315:LEU:O	1:C:3319:ILE:HG12	2.03	0.58
1:A:404:ILE:HG21	1:A:481:GLU:HG3	1.85	0.58
1:A:1808:ARG:NH1	1:A:1853:ILE:O	2.35	0.58
1:A:2013:LYS:NZ	1:A:3661:TRP:O	2.36	0.58
1:A:2111:VAL:HB	1:A:2117:VAL:HG22	1.85	0.58
1:A:3244:PRO:HD2	1:A:3249:LEU:HD21	1.85	0.58
1:B:404:ILE:HG21	1:B:481:GLU:HG3	1.85	0.58
1:B:2433:LEU:HD11	1:B:2457:LEU:HD22	1.84	0.58
1:B:2442:LEU:H	1:B:2444:GLN:HE21	1.50	0.58
1:B:2967:MET:HE3	1:B:3042:LEU:HD22	1.85	0.58
1:B:3970:GLN:HE21	1:B:5004:THR:HA	1.67	0.58
1:D:38:ALA:HB1	1:D:64:ILE:HG13	1.83	0.58
1:D:2741:GLU:HG2	1:D:2743:LEU:HD23	1.84	0.58
1:D:2782:ASP:OD1	1:D:2787:THR:OG1	2.21	0.58
1:C:15:ARG:HA	1:C:100:THR:HA	1.84	0.58
1:C:1717:SER:HA	1:C:1721:GLU:HB3	1.84	0.58
1:C:1745:ILE:O	1:C:1964:ARG:NH2	2.36	0.58
1:C:2158:CYS:O	1:C:2162:ILE:HG12	2.02	0.58
1:C:3244:PRO:HD2	1:C:3249:LEU:HD21	1.85	0.58
1:C:3793:MET:HA	1:C:3793:MET:HE3	1.85	0.58
1:A:467:LYS:NZ	1:A:471:LEU:HB2	2.17	0.58
1:A:2627:VAL:HG13	1:A:2678:LEU:HD21	1.84	0.58
1:A:3014:CYS:SG	1:A:3074:SER:OG	2.59	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.84	0.58
2:E:58:GLY:HA3	2:E:80:TYR:HB3	1.84	0.58
2:E:75:THR:HG22	2:E:98:VAL:HG22	1.86	0.58
1:B:1745:ILE:O	1:B:1964:ARG:NH2	2.36	0.58
1:B:1974:ARG:HH21	1:B:3642:TYR:HB2	1.67	0.58
1:B:2013:LYS:NZ	1:B:3661:TRP:O	2.36	0.58
1:B:2348:GLU:O	1:B:2352:VAL:HG23	2.02	0.58
1:B:3272:ILE:C	1:B:3275:PRO:HD2	2.28	0.58
1:B:3592:ILE:O	1:B:3596:VAL:HG23	2.03	0.58
1:B:4068:LEU:O	1:B:4072:VAL:HG22	2.04	0.58
1:B:4681:LEU:HD13	1:B:4724:VAL:HG21	1.85	0.58
1:D:154:SER:OG	1:D:155:LYS:N	2.34	0.58
1:D:1277:TRP:HD1	1:D:1559:GLN:HG3	1.68	0.58
1:D:2348:GLU:O	1:D:2352:VAL:HG23	2.02	0.58
1:D:3354:LEU:HG	1:D:3358:PHE:HB3	1.85	0.58
1:D:3796:SER:HA	1:D:3799:LYS:HE3	1.86	0.58
1:D:3981:ALA:HA	1:D:3986:TRP:CZ2	2.36	0.58
1:D:4873:ASP:OD1	1:D:4875:LYS:NZ	2.36	0.58
1:C:647:ASN:ND2	1:C:820:ARG:O	2.33	0.58
1:C:755:ILE:HD12	1:C:768:PHE:HD2	1.67	0.58
1:C:1277:TRP:HD1	1:C:1559:GLN:HG3	1.68	0.58
1:C:2516:ASP:OD1	1:C:2516:ASP:N	2.35	0.58
1:C:2518:LEU:HD22	1:C:2565:CYS:HB3	1.84	0.58
1:C:2868:SER:HB3	1:C:2871:LEU:HD22	1.84	0.58
1:A:2352:VAL:O	1:A:2356:LEU:HG	2.03	0.58
2:E:25:HIS:ND1	2:E:40:ARG:HD2	2.19	0.58
1:B:1277:TRP:HD1	1:B:1559:GLN:HG3	1.68	0.58
1:B:1674:CYS:HB2	1:B:1685:LEU:HD11	1.84	0.58
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.04	0.58
1:B:3566:SER:H	1:B:3569:LEU:HD12	1.67	0.58
1:B:3943:ILE:HG22	1:B:3948:LYS:HG2	1.85	0.58
1:B:3991:GLY:O	1:B:3994:HIS:ND1	2.36	0.58
1:B:4584:ASP:HA	1:B:4628:VAL:HA	1.86	0.58
1:D:2044:ILE:HG23	1:D:3667:HIS:HD2	1.68	0.58
1:D:2226:PRO:HB2	1:D:2268[A]:GLN:HE21	1.67	0.58
1:D:2352:VAL:O	1:D:2356:LEU:HG	2.03	0.58
1:D:4157:ASP:OD1	1:D:4159:ARG:NE	2.35	0.58
1:C:394:GLN:HE22	1:C:396:GLU:H	1.51	0.58
1:C:2245:GLN:H	1:C:2245:GLN:CD	2.12	0.58
1:C:2352:VAL:O	1:C:2356:LEU:HG	2.03	0.58
1:C:3527:PRO:HG2	1:C:3572:GLN:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3592:ILE:O	1:C:3596:VAL:HG23	2.03	0.58
1:C:3943:ILE:HG22	1:C:3948:LYS:HG2	1.85	0.58
1:C:4556:SER:HB2	1:C:4664:LEU:HD13	1.83	0.58
1:C:4664:LEU:HB3	1:C:4665:LYS:HZ2	1.67	0.58
1:A:154:SER:OG	1:A:155:LYS:N	2.34	0.58
1:A:771:PHE:HB3	1:A:1472:VAL:HG23	1.85	0.58
1:A:913:LEU:HD23	1:A:918:ARG:HG2	1.84	0.58
1:A:2348:GLU:O	1:A:2352:VAL:HG23	2.02	0.58
1:A:5006:GLN:H	1:A:5006:GLN:CD	2.12	0.58
2:H:42:ARG:HB3	2:H:44:LYS:NZ	2.19	0.58
1:B:68:THR:O	1:B:110:ARG:N	2.34	0.58
1:B:115:ARG:HD2	1:B:395:GLN:HE22	1.68	0.58
1:B:929:LEU:O	1:B:933:LEU:HG	2.03	0.58
1:B:985:VAL:HB	1:B:1043:VAL:HG21	1.85	0.58
1:B:2226:PRO:HB2	1:B:2268[A]:GLN:HE21	1.67	0.58
1:B:3522:LEU:CD1	1:C:1220:GLN:HB3	2.07	0.58
1:B:3527:PRO:HG2	1:B:3572:GLN:HB3	1.86	0.58
1:B:3722:TYR:HD2	1:B:3793:MET:HE2	1.67	0.58
1:B:4564:PHE:HA	1:B:4567:LEU:HG	1.85	0.58
1:D:1616:GLU:OE1	1:D:1616:GLU:N	2.36	0.58
1:D:1995:THR:O	1:D:1999:ARG:N	2.31	0.58
1:D:3819:TYR:O	1:D:3823:LYS:HG2	2.03	0.58
1:D:4869:GLU:OE1	1:D:4869:GLU:N	2.29	0.58
1:C:46:LEU:HD13	1:C:134:ASP:HB2	1.84	0.58
1:C:3100:SER:HA	1:C:3103:ILE:HD12	1.85	0.58
1:C:3434:LEU:O	1:C:3438:VAL:HG12	2.03	0.58
1:C:3970:GLN:HE21	1:C:5004:THR:HA	1.67	0.58
1:C:4157:ASP:OD1	1:C:4159:ARG:NE	2.35	0.58
1:C:5013:MET:HG2	1:C:5021:PHE:HB3	1.84	0.58
1:A:2868:SER:HB3	1:A:2871:LEU:HD22	1.84	0.58
1:A:3308:THR:OG1	1:A:3310:ASP:OD2	2.16	0.58
1:A:3428:ASN:ND2	1:A:3430:ASN:OD1	2.29	0.58
1:A:3981:ALA:HA	1:A:3986:TRP:CZ2	2.36	0.58
2:G:78:PRO:HA	2:G:81:ALA:HB3	1.85	0.58
1:B:303:ASP:OD2	1:B:305:CYS:N	2.36	0.58
1:B:781:VAL:HG11	1:B:789:VAL:HG21	1.86	0.58
1:B:2970:SER:HA	1:B:2973:PHE:CD2	2.38	0.58
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.84	0.58
1:D:929:LEU:O	1:D:933:LEU:HG	2.03	0.58
1:D:1806:ALA:O	1:D:1810:LYS:HG2	2.04	0.58
1:D:2639:MET:SD	1:D:2639:MET:N	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3145:GLN:O	1:D:3149:GLN:HG3	2.04	0.58
1:D:3273:THR:HA	1:D:3276:MET:SD	2.44	0.58
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.84	0.58
1:D:3327:LEU:HB2	1:D:3364:ARG:HH21	1.69	0.58
1:D:3836:MET:HE2	1:D:3836:MET:C	2.28	0.58
1:C:404:ILE:HG21	1:C:481:GLU:HG3	1.85	0.58
1:C:929:LEU:O	1:C:933:LEU:HG	2.04	0.58
1:C:2044:ILE:HG23	1:C:3667:HIS:HD2	1.68	0.58
1:C:2293:GLN:OE1	1:C:2293:GLN:N	2.24	0.58
1:C:3014:CYS:SG	1:C:3074:SER:OG	2.59	0.58
1:C:3658:LYS:HA	1:C:3662:ILE:HG22	1.85	0.58
1:C:3788:GLY:HA2	1:C:3835:LEU:HG	1.86	0.58
1:C:4584:ASP:HA	1:C:4628:VAL:HA	1.86	0.58
1:A:781:VAL:HG11	1:A:789:VAL:HG21	1.86	0.58
1:A:2782:ASP:OD1	1:A:2787:THR:OG1	2.21	0.58
1:A:3527:PRO:HG2	1:A:3572:GLN:HB3	1.86	0.58
1:A:3836:MET:C	1:A:3836:MET:HE2	2.28	0.58
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.84	0.58
1:B:850:ASP:N	1:B:850:ASP:OD1	2.33	0.58
1:B:2091:PRO:HB3	1:B:2096:GLU:HB3	1.86	0.58
1:B:2245:GLN:CD	1:B:2245:GLN:H	2.12	0.58
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.03	0.58
1:B:2741:GLU:HG2	1:B:2743:LEU:HD23	1.85	0.58
1:B:3788:GLY:HA2	1:B:3835:LEU:HG	1.86	0.58
1:D:1246:GLU:O	1:D:1599:MET:N	2.30	0.58
1:D:2138:LEU:HD22	1:D:3658:LYS:HE2	1.86	0.58
1:D:3267:PRO:O	1:D:3271:GLU:HB2	2.03	0.58
1:D:3658:LYS:HA	1:D:3662:ILE:HG22	1.85	0.58
1:C:685:GLY:HA3	1:C:715:GLY:HA2	1.85	0.58
1:C:1808:ARG:NH1	1:C:1853:ILE:O	2.35	0.58
1:C:2595:LEU:O	1:C:2600:ARG:NH2	2.37	0.58
1:C:2970:SER:HA	1:C:2973:PHE:CD2	2.38	0.58
1:A:120:CYS:HA	1:A:135:VAL:HA	1.84	0.58
1:A:929:LEU:O	1:A:933:LEU:HG	2.03	0.58
1:A:3566:SER:H	1:A:3569:LEU:HD12	1.67	0.58
1:A:3969:ILE:HD11	1:A:3977:GLN:HG2	1.86	0.58
1:B:46:LEU:HD13	1:B:134:ASP:HB2	1.84	0.58
1:B:120:CYS:HA	1:B:135:VAL:HA	1.84	0.58
1:B:1717:SER:HA	1:B:1721:GLU:HB3	1.84	0.58
1:B:5013:MET:HG2	1:B:5021:PHE:HB3	1.84	0.58
1:D:2013:LYS:NZ	1:D:3661:TRP:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.34	0.58
1:D:2245:GLN:H	1:D:2245:GLN:CD	2.12	0.58
1:D:2967:MET:HE3	1:D:3042:LEU:HD22	1.85	0.58
1:D:3592:ILE:O	1:D:3596:VAL:HG23	2.03	0.58
1:C:2013:LYS:NZ	1:C:3661:TRP:O	2.36	0.58
1:C:2091:PRO:HB3	1:C:2096:GLU:HB3	1.86	0.58
1:C:2442:LEU:H	1:C:2444:GLN:HE21	1.50	0.58
1:C:2626:LEU:HD13	1:C:2644:LEU:HD21	1.85	0.58
1:C:2640:PRO:HA	1:C:2643:LEU:HG	1.84	0.58
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.84	0.58
1:C:3777:GLU:OE1	1:C:3777:GLU:N	2.35	0.58
1:C:5032:TYR:HB3	1:C:5036:LEU:HG	1.86	0.58
1:A:3315:LEU:HA	1:A:3318:ASN:HD22	1.67	0.58
1:A:3722:TYR:HD2	1:A:3793:MET:HE2	1.67	0.58
1:A:3735:LEU:HB3	1:A:3766:GLN:HE22	1.68	0.58
2:H:25:HIS:HE1	2:H:40:ARG:HA	1.69	0.58
1:B:394:GLN:HE22	1:B:396:GLU:H	1.51	0.58
1:B:1808:ARG:NH1	1:B:1853:ILE:O	2.35	0.58
1:B:2626:LEU:HD13	1:B:2644:LEU:HD21	1.85	0.58
1:B:3670:GLU:HB3	1:B:3728:ILE:HG23	1.84	0.58
1:B:3951:PHE:O	1:B:3955:MET:HG2	2.04	0.58
1:B:3969:ILE:HD11	1:B:3977:GLN:HG2	1.86	0.58
1:D:15:ARG:HA	1:D:100:THR:HA	1.84	0.58
1:D:120:CYS:HA	1:D:135:VAL:HA	1.84	0.58
1:D:781:VAL:HG11	1:D:789:VAL:HG21	1.86	0.58
1:D:1476:MET:HA	1:D:1476:MET:HE3	1.85	0.58
1:D:1575:LEU:O	1:D:1579:MET:HG3	2.04	0.58
1:D:2027:ILE:HA	1:D:2030:ASP:OD1	2.04	0.58
1:D:3527:PRO:HG2	1:D:3572:GLN:HB3	1.86	0.58
1:C:3273:THR:HA	1:C:3276:MET:SD	2.44	0.58
1:A:3327:LEU:HB2	1:A:3364:ARG:HH21	1.69	0.58
1:A:3811:GLU:HG2	1:A:3815:LYS:HE2	1.86	0.58
1:A:3951:PHE:O	1:A:3955:MET:HG2	2.04	0.58
1:B:685:GLY:HA3	1:B:715:GLY:HA2	1.85	0.58
1:B:1046:LEU:HA	1:B:1049:TYR:CD2	2.39	0.58
1:B:1575:LEU:O	1:B:1579:MET:HG3	2.04	0.58
1:B:3434:LEU:O	1:B:3438:VAL:HG12	2.03	0.58
1:B:3510:ILE:O	1:B:3514:LEU:HG	2.04	0.58
1:B:3658:LYS:HA	1:B:3662:ILE:HG22	1.85	0.58
1:B:3735:LEU:HB3	1:B:3766:GLN:HE22	1.68	0.58
1:B:5032:TYR:HB3	1:B:5036:LEU:HG	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3140:LEU:HA	1:D:3143:LEU:HD12	1.86	0.58
1:D:3735:LEU:HB3	1:D:3766:GLN:HE22	1.68	0.58
1:C:379:HIS:HB3	1:C:382:GLY:HA2	1.86	0.58
1:C:1772:ARG:NH2	1:C:1952:GLN:OE1	2.37	0.58
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.04	0.58
1:C:3315:LEU:HA	1:C:3318:ASN:HD22	1.67	0.58
1:C:3510:ILE:O	1:C:3514:LEU:HG	2.03	0.58
1:C:3735:LEU:HB3	1:C:3766:GLN:HE22	1.68	0.58
1:C:3951:PHE:O	1:C:3955:MET:HG2	2.04	0.58
1:A:213:TYR:N	1:A:341:TYR:H	2.02	0.57
1:A:985:VAL:HB	1:A:1043:VAL:HG21	1.85	0.57
1:A:1476:MET:HA	1:A:1476:MET:HE3	1.85	0.57
1:A:2798:SER:OG	1:A:2801:ASP:OD2	2.18	0.57
1:A:3267:PRO:O	1:A:3271:GLU:HB2	2.03	0.57
1:A:3777:GLU:OE1	1:A:3777:GLU:N	2.35	0.57
1:A:4564:PHE:HA	1:A:4567:LEU:HG	1.85	0.57
2:F:51:GLY:N	2:F:60:GLU:OE2	2.32	0.57
1:B:980:ALA:O	1:B:984:LEU:HG	2.04	0.57
1:B:1011:GLN:N	1:B:1011:GLN:OE1	2.37	0.57
1:B:1229:ASN:H	1:B:1827:ARG:NH2	2.02	0.57
1:B:2640:PRO:HA	1:B:2643:LEU:HG	1.85	0.57
1:B:3247:ASP:N	1:B:3247:ASP:OD1	2.37	0.57
1:B:3273:THR:HA	1:B:3276:MET:SD	2.44	0.57
1:B:3796:SER:HA	1:B:3799:LYS:HE3	1.86	0.57
1:B:3819:TYR:O	1:B:3823:LYS:HG2	2.03	0.57
1:B:4036:VAL:HG12	1:B:4153:HIS:HA	1.85	0.57
1:D:215:THR:HG22	1:D:273:HIS:HA	1.86	0.57
1:D:1745:ILE:O	1:D:1964:ARG:NH2	2.36	0.57
1:D:1873:GLU:OE1	1:D:1873:GLU:N	2.37	0.57
1:C:68:THR:O	1:C:110:ARG:N	2.34	0.57
1:C:3267:PRO:O	1:C:3271:GLU:HB2	2.03	0.57
1:C:3768:SER:HA	1:C:3771:HIS:NE2	2.19	0.57
1:C:3796:SER:HA	1:C:3799:LYS:HE3	1.86	0.57
1:C:4068:LEU:O	1:C:4072:VAL:HG22	2.04	0.57
1:A:681:HIS:CE1	1:A:683:ARG:HB2	2.39	0.57
1:A:2027:ILE:HA	1:A:2030:ASP:OD1	2.04	0.57
1:A:2245:GLN:H	1:A:2245:GLN:CD	2.12	0.57
1:A:2595:LEU:O	1:A:2600:ARG:NH2	2.37	0.57
1:A:3145:GLN:O	1:A:3149:GLN:HG3	2.04	0.57
1:A:3180:ASN:H	1:A:3183:VAL:HB	1.70	0.57
1:A:3315:LEU:O	1:A:3319:ILE:HG12	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3434:LEU:O	1:A:3438:VAL:HG12	2.03	0.57
1:A:3510:ILE:O	1:A:3514:LEU:HG	2.03	0.57
1:A:3943:ILE:HG22	1:A:3948:LYS:HG2	1.85	0.57
1:B:913:LEU:HD23	1:B:918:ARG:HG2	1.84	0.57
1:B:1443:GLN:OE1	1:B:1557:THR:N	2.38	0.57
1:B:2230:THR:OG1	1:B:2268[B]:GLN:NE2	2.38	0.57
1:B:2518:LEU:HD22	1:B:2565:CYS:HB3	1.84	0.57
1:B:3145:GLN:O	1:B:3149:GLN:HG3	2.04	0.57
1:D:3100:SER:HA	1:D:3103:ILE:HD12	1.85	0.57
1:D:3373:VAL:O	1:D:3377:GLU:HG2	2.04	0.57
1:D:3510:ILE:O	1:D:3514:LEU:HG	2.04	0.57
1:D:4068:LEU:O	1:D:4072:VAL:HG22	2.04	0.57
1:D:4711:PHE:O	1:D:4713:SER:N	2.37	0.57
1:D:5006:GLN:H	1:D:5006:GLN:CD	2.12	0.57
1:C:916:PRO:HA	1:C:919:ASN:HD22	1.68	0.57
1:C:1011:GLN:OE1	1:C:1011:GLN:N	2.37	0.57
1:C:1873:GLU:N	1:C:1873:GLU:OE1	2.37	0.57
1:C:2627:VAL:HG13	1:C:2678:LEU:HD21	1.84	0.57
1:C:2973:PHE:CD1	1:C:2995:ILE:HG12	2.40	0.57
1:C:3811:GLU:HG2	1:C:3815:LYS:HE2	1.86	0.57
1:A:15:ARG:HA	1:A:100:THR:HA	1.84	0.57
1:A:670:GLU:HA	1:A:740:PRO:HG3	1.86	0.57
1:A:1443:GLN:OE1	1:A:1557:THR:N	2.38	0.57
1:A:1772:ARG:NH2	1:A:1952:GLN:OE1	2.37	0.57
1:A:2626:LEU:HD13	1:A:2644:LEU:HD21	1.85	0.57
1:A:2967:MET:HE3	1:A:3042:LEU:HD22	1.85	0.57
1:A:2973:PHE:CD1	1:A:2995:ILE:HG12	2.40	0.57
1:B:2095:GLN:H	1:B:2095:GLN:CD	2.13	0.57
1:B:2138:LEU:HD22	1:B:3658:LYS:HE2	1.86	0.57
1:B:2517:PHE:O	1:B:2520:HIS:ND1	2.33	0.57
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.84	0.57
1:D:1430:THR:HG23	1:D:1573:MET:SD	2.44	0.57
1:D:1443:GLN:OE1	1:D:1557:THR:N	2.38	0.57
1:D:2626:LEU:HD13	1:D:2644:LEU:HD21	1.85	0.57
1:D:3777:GLU:OE1	1:D:3777:GLU:N	2.35	0.57
1:D:4001:MET:O	1:D:4005:GLN:NE2	2.34	0.57
1:C:215:THR:HG22	1:C:273:HIS:HA	1.86	0.57
1:C:781:VAL:HG11	1:C:789:VAL:HG21	1.86	0.57
1:C:1424:PRO:HA	1:C:1427:ILE:HG22	1.86	0.57
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.04	0.57
1:A:215:THR:HG22	1:A:273:HIS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:GLU:OE2	1:A:439:GLU:N	2.25	0.57
1:A:2640:PRO:HA	1:A:2643:LEU:HG	1.85	0.57
1:A:3522:LEU:HD22	1:B:1220:GLN:CD	2.30	0.57
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.05	0.57
1:A:5029:ARG:O	1:A:5033:GLU:N	2.38	0.57
2:F:3:GLN:OE1	2:F:3:GLN:N	2.37	0.57
1:B:213:TYR:N	1:B:341:TYR:H	2.02	0.57
1:B:1430:THR:HG23	1:B:1573:MET:SD	2.44	0.57
1:B:3100:SER:HA	1:B:3103:ILE:HD12	1.85	0.57
1:B:5029:ARG:O	1:B:5033:GLU:N	2.38	0.57
1:D:115:ARG:HD2	1:D:395:GLN:HE22	1.68	0.57
1:D:2598:ALA:O	1:D:2602:VAL:HG23	2.05	0.57
1:D:2693:GLN:O	1:D:2693:GLN:NE2	2.37	0.57
1:C:439:GLU:OE2	1:C:439:GLU:N	2.25	0.57
1:C:2244:ARG:HH12	1:C:3861:GLU:H	1.51	0.57
1:C:2479:LEU:HA	1:C:2485:LEU:HA	1.87	0.57
1:C:2669:GLU:HA	1:C:2672:LEU:HB2	1.85	0.57
1:C:4036:VAL:HG12	1:C:4153:HIS:HA	1.85	0.57
1:A:259:LEU:HD11	1:A:393:CYS:HB2	1.86	0.57
1:A:490:CYS:O	1:A:494:LEU:HD12	2.05	0.57
1:A:2516:ASP:OD1	1:A:2516:ASP:N	2.35	0.57
1:A:2741:GLU:HG2	1:A:2743:LEU:HD23	1.85	0.57
1:A:3106:MET:SD	1:A:3106:MET:N	2.78	0.57
1:A:3373:VAL:O	1:A:3377:GLU:HG2	2.04	0.57
1:A:3611:HIS:ND1	1:A:3611:HIS:O	2.38	0.57
1:A:4952:GLU:O	1:A:4956:THR:OG1	2.19	0.57
1:B:221:ARG:HH21	1:B:259:LEU:HB2	1.68	0.57
1:B:379:HIS:HB3	1:B:382:GLY:HA2	1.86	0.57
1:B:771:PHE:HB3	1:B:1472:VAL:HG23	1.85	0.57
1:B:971:ASP:OD2	1:B:974:HIS:ND1	2.33	0.57
1:B:1806:ALA:O	1:B:1810:LYS:HG2	2.04	0.57
1:B:4952:GLU:O	1:B:4956:THR:OG1	2.19	0.57
1:D:54:ASN:O	1:D:56:GLN:N	2.38	0.57
1:D:221:ARG:HH21	1:D:259:LEU:HB2	1.69	0.57
1:D:681:HIS:CE1	1:D:683:ARG:HB2	2.39	0.57
1:C:54:ASN:O	1:C:56:GLN:N	2.38	0.57
1:C:771:PHE:HB3	1:C:1472:VAL:HG23	1.85	0.57
1:C:2693:GLN:NE2	1:C:2693:GLN:O	2.37	0.57
1:C:3145:GLN:O	1:C:3149:GLN:HG3	2.04	0.57
1:C:3327:LEU:HB2	1:C:3364:ARG:HH21	1.69	0.57
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2138:LEU:HD22	1:A:3658:LYS:HE2	1.86	0.57
1:A:3100:SER:HA	1:A:3103:ILE:HD12	1.85	0.57
1:A:3142:THR:HA	1:A:3145:GLN:OE1	2.05	0.57
1:A:3273:THR:HA	1:A:3276:MET:SD	2.44	0.57
1:A:3575:LEU:HD21	1:B:1208:VAL:CG2	2.28	0.57
1:A:3788:GLY:HA2	1:A:3835:LEU:HG	1.86	0.57
1:A:4068:LEU:O	1:A:4072:VAL:HG22	2.04	0.57
1:A:4711:PHE:O	1:A:4713:SER:N	2.37	0.57
2:G:5:GLU:HB3	2:G:73:LYS:HE3	1.85	0.57
1:B:495:ASN:O	1:B:553:ARG:NH2	2.38	0.57
1:B:2693:GLN:NE2	1:B:2693:GLN:O	2.37	0.57
1:D:44:ASN:ND2	1:D:46:LEU:O	2.38	0.57
1:D:497:TYR:O	1:D:553:ARG:NH2	2.33	0.57
1:D:980:ALA:O	1:D:984:LEU:HG	2.04	0.57
1:D:2244:ARG:HH12	1:D:3861:GLU:H	1.51	0.57
1:D:3142:THR:HA	1:D:3145:GLN:OE1	2.05	0.57
1:D:3322:ILE:HG13	1:D:3326:ASN:ND2	2.20	0.57
1:D:3951:PHE:O	1:D:3955:MET:HG2	2.04	0.57
1:D:3969:ILE:HD11	1:D:3977:GLN:HG2	1.86	0.57
1:D:5032:TYR:HB3	1:D:5036:LEU:HG	1.86	0.57
1:C:3350:ARG:O	1:C:3415:TYR:OH	2.23	0.57
1:C:3373:VAL:O	1:C:3377:GLU:HG2	2.04	0.57
1:C:3711:THR:O	1:C:3713:LYS:NZ	2.34	0.57
1:C:4976:GLU:O	1:C:4980:LEU:HG	2.05	0.57
1:A:44:ASN:ND2	1:A:46:LEU:O	2.38	0.57
1:A:111:HIS:NE2	1:A:113:HIS:HB3	2.20	0.57
1:A:1011:GLN:OE1	1:A:1011:GLN:N	2.37	0.57
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.04	0.57
1:A:3140:LEU:HA	1:A:3143:LEU:HD12	1.86	0.57
1:A:3768:SER:HA	1:A:3771:HIS:NE2	2.20	0.57
2:E:28:GLY:N	2:E:37:ASP:O	2.38	0.57
2:G:3:GLN:OE1	2:G:3:GLN:N	2.38	0.57
1:B:54:ASN:O	1:B:56:GLN:N	2.38	0.57
1:B:681:HIS:CE1	1:B:683:ARG:HB2	2.39	0.57
1:B:1772:ARG:NH2	1:B:1952:GLN:OE1	2.37	0.57
1:B:3106:MET:N	1:B:3106:MET:SD	2.78	0.57
1:D:1011:GLN:OE1	1:D:1011:GLN:N	2.37	0.57
1:D:3106:MET:N	1:D:3106:MET:SD	2.78	0.57
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.05	0.57
1:C:221:ARG:HH21	1:C:259:LEU:HB2	1.69	0.57
1:C:495:ASN:O	1:C:553:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2598:ALA:O	1:C:2602:VAL:HG23	2.05	0.57
1:C:2755:ILE:HD13	1:C:2810:LYS:HA	1.86	0.57
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.04	0.57
1:A:221:ARG:HH21	1:A:259:LEU:HB2	1.69	0.57
1:A:873:LYS:HD3	1:A:874:LEU:HD23	1.85	0.57
1:A:1220:GLN:CD	1:D:3522:LEU:HD22	2.29	0.57
1:A:1229:ASN:H	1:A:1827:ARG:NH2	2.02	0.57
1:A:3322:ILE:HG13	1:A:3326:ASN:ND2	2.20	0.57
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.04	0.57
1:A:4036:VAL:HG12	1:A:4153:HIS:HA	1.86	0.57
2:G:105:LYS:NZ	2:G:106:LEU:O	2.37	0.57
1:B:44:ASN:ND2	1:B:46:LEU:O	2.38	0.57
1:B:490:CYS:O	1:B:494:LEU:HD12	2.05	0.57
1:B:1424:PRO:HA	1:B:1427:ILE:HG22	1.86	0.57
1:B:3180:ASN:H	1:B:3183:VAL:HB	1.70	0.57
1:B:3367:LYS:O	1:B:3371:LYS:HG3	2.05	0.57
1:B:3811:GLU:HG2	1:B:3815:LYS:HE2	1.86	0.57
1:D:490:CYS:O	1:D:494:LEU:HD12	2.05	0.57
1:D:873:LYS:HD3	1:D:874:LEU:HD23	1.85	0.57
1:D:1508:ARG:HH11	1:D:1508:ARG:HA	1.70	0.57
1:D:3014:CYS:SG	1:D:3074:SER:OG	2.59	0.57
1:D:3315:LEU:O	1:D:3319:ILE:HG12	2.03	0.57
1:D:3788:GLY:HA2	1:D:3835:LEU:HG	1.86	0.57
1:C:115:ARG:HH11	1:C:395:GLN:HE22	1.53	0.57
1:C:670:GLU:HA	1:C:740:PRO:HG3	1.86	0.57
1:A:115:ARG:HD2	1:A:395:GLN:HE22	1.68	0.57
1:A:639:ASN:ND2	1:A:676:THR:OG1	2.37	0.57
1:A:1762:LEU:HD12	1:A:1763:PRO:HD2	1.86	0.57
1:A:2336:ARG:NH1	1:A:2431:ASP:OD2	2.38	0.57
1:A:3367:LYS:O	1:A:3371:LYS:HG3	2.05	0.57
1:A:3796:SER:HA	1:A:3799:LYS:HE3	1.86	0.57
1:A:4584:ASP:HA	1:A:4628:VAL:HA	1.86	0.57
2:G:40:ARG:NH1	1:C:674:PHE:HE2	2.01	0.57
1:B:3322:ILE:HG13	1:B:3326:ASN:ND2	2.20	0.57
1:B:3373:VAL:O	1:B:3377:GLU:HG2	2.04	0.57
1:D:115:ARG:HH11	1:D:395:GLN:HE22	1.53	0.57
1:D:394:GLN:HE22	1:D:396:GLU:H	1.51	0.57
1:D:2577:ILE:HD12	1:D:2578:MET:N	2.20	0.57
1:D:3346:VAL:HG21	1:D:3411:LEU:HB2	1.86	0.57
1:D:3943:ILE:HG22	1:D:3948:LYS:HG2	1.85	0.57
1:D:4036:VAL:HG12	1:D:4153:HIS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4976:GLU:O	1:D:4980:LEU:HG	2.05	0.57
1:C:985:VAL:HB	1:C:1043:VAL:HG21	1.85	0.57
1:C:1229:ASN:H	1:C:1827:ARG:NH2	2.02	0.57
1:C:2559:LEU:O	1:C:2563:THR:HG23	2.05	0.57
1:C:4240:ASP:OD1	1:C:4675:LYS:NZ	2.35	0.57
1:C:4689:THR:OG1	1:C:4690:GLU:OE1	2.16	0.57
1:A:54:ASN:O	1:A:56:GLN:N	2.38	0.57
1:A:213:TYR:CD1	1:A:337:PRO:HB2	2.40	0.57
1:A:2577:ILE:HD12	1:A:2578:MET:N	2.20	0.57
1:A:4929:LEU:HD23	1:A:4932:ILE:HD11	1.87	0.57
1:A:5032:TYR:HB3	1:A:5036:LEU:HG	1.86	0.57
1:B:259:LEU:HD11	1:B:393:CYS:HB2	1.86	0.57
1:B:1873:GLU:OE1	1:B:1873:GLU:N	2.37	0.57
1:B:2336:ARG:NH1	1:B:2431:ASP:OD2	2.38	0.57
1:B:2479:LEU:HA	1:B:2485:LEU:HA	1.86	0.57
1:B:2973:PHE:CD1	1:B:2995:ILE:HG12	2.39	0.57
1:D:213:TYR:CD1	1:D:337:PRO:HB2	2.40	0.57
1:D:1869:GLU:N	1:D:1869:GLU:OE2	2.38	0.57
1:D:2091:PRO:HB3	1:D:2096:GLU:HB3	1.86	0.57
1:D:2798:SER:OG	1:D:2801:ASP:OD2	2.18	0.57
1:D:4584:ASP:HA	1:D:4628:VAL:HA	1.86	0.57
1:C:259:LEU:HD11	1:C:393:CYS:HB2	1.86	0.57
1:C:681:HIS:CE1	1:C:683:ARG:HB2	2.39	0.57
1:C:873:LYS:HD3	1:C:874:LEU:HD23	1.85	0.57
1:C:1046:LEU:HA	1:C:1049:TYR:CD2	2.39	0.57
1:C:1430:THR:HG23	1:C:1573:MET:SD	2.44	0.57
1:C:1508:ARG:HA	1:C:1508:ARG:HH11	1.70	0.57
1:C:1575:LEU:O	1:C:1579:MET:HG3	2.04	0.57
1:C:2138:LEU:HD22	1:C:3658:LYS:HE2	1.86	0.57
1:C:3142:THR:HA	1:C:3145:GLN:OE1	2.05	0.57
1:A:115:ARG:HH11	1:A:395:GLN:HE22	1.53	0.56
1:A:1430:THR:HG23	1:A:1573:MET:SD	2.44	0.56
1:A:2044:ILE:HG23	1:A:3667:HIS:HD2	1.68	0.56
1:A:4869:GLU:OE1	1:A:4869:GLU:N	2.29	0.56
1:A:4877:ASP:HA	1:D:4582:VAL:CG2	2.34	0.56
2:H:54:GLU:OE1	2:H:54:GLU:N	2.31	0.56
2:G:20:GLN:OE1	2:G:21:THR:N	2.38	0.56
1:B:2358:ILE:HG13	1:B:2359:ARG:HH21	1.70	0.56
1:B:2595:LEU:O	1:B:2600:ARG:NH2	2.37	0.56
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.05	0.56
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4929:LEU:HD23	1:B:4932:ILE:HD11	1.87	0.56
1:D:213:TYR:N	1:D:341:TYR:H	2.02	0.56
1:D:916:PRO:HA	1:D:919:ASN:HD22	1.68	0.56
1:D:1077:ALA:HA	1:D:1236:THR:HG22	1.87	0.56
1:D:2595:LEU:O	1:D:2600:ARG:NH2	2.37	0.56
1:D:3768:SER:HA	1:D:3771:HIS:NE2	2.20	0.56
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.05	0.56
1:C:44:ASN:ND2	1:C:46:LEU:O	2.38	0.56
1:C:3573:MET:O	1:C:3577:ARG:HG2	2.05	0.56
1:C:4711:PHE:O	1:C:4713:SER:N	2.37	0.56
1:A:980:ALA:O	1:A:984:LEU:HG	2.04	0.56
1:A:985:VAL:HG21	1:A:1043:VAL:HG11	1.88	0.56
1:A:1873:GLU:OE1	1:A:1873:GLU:N	2.37	0.56
1:A:2091:PRO:HB3	1:A:2096:GLU:HB3	1.86	0.56
1:A:2449:GLU:O	1:A:2453:ILE:HG12	2.06	0.56
1:A:2693:GLN:O	1:A:2693:GLN:NE2	2.37	0.56
1:A:2755:ILE:HD13	1:A:2810:LYS:HA	1.86	0.56
1:A:3247:ASP:OD1	1:A:3247:ASP:N	2.37	0.56
1:A:3658:LYS:HA	1:A:3662:ILE:HG22	1.85	0.56
1:A:4563:ARG:NH2	1:A:4815:ASP:OD2	2.39	0.56
2:H:37:ASP:HB2	1:D:1782:PHE:HD2	1.70	0.56
1:B:119:SER:O	1:B:136:GLY:N	2.33	0.56
1:B:873:LYS:HD3	1:B:874:LEU:HD23	1.85	0.56
1:B:2044:ILE:HG23	1:B:3667:HIS:HD2	1.69	0.56
1:B:3350:ARG:O	1:B:3415:TYR:OH	2.23	0.56
1:B:4885:PHE:O	1:B:4889:VAL:HG22	2.05	0.56
1:D:1046:LEU:HA	1:D:1049:TYR:CD2	2.39	0.56
1:D:2479:LEU:HA	1:D:2485:LEU:HA	1.87	0.56
1:D:2755:ILE:HD13	1:D:2810:LYS:HA	1.86	0.56
1:D:2973:PHE:CD1	1:D:2995:ILE:HG12	2.39	0.56
1:C:213:TYR:CD1	1:C:337:PRO:HB2	2.40	0.56
1:C:303:ASP:OD2	1:C:305:CYS:N	2.36	0.56
1:C:2095:GLN:CD	1:C:2095:GLN:H	2.13	0.56
1:C:3322:ILE:HG13	1:C:3326:ASN:ND2	2.20	0.56
1:A:840:VAL:HG22	1:A:1199:VAL:HG13	1.88	0.56
1:A:1046:LEU:HA	1:A:1049:TYR:CD2	2.39	0.56
1:A:2244:ARG:HH12	1:A:3861:GLU:H	1.51	0.56
1:A:3346:VAL:HG21	1:A:3411:LEU:HB2	1.86	0.56
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.05	0.56
2:H:7:ILE:CG1	1:D:719:LEU:CD2	2.80	0.56
2:G:40:ARG:CZ	1:C:674:PHE:CZ	2.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:26:TYR:N	2:F:39:SER:OG	2.36	0.56
1:B:215:THR:HG22	1:B:273:HIS:HA	1.86	0.56
1:B:1246:GLU:O	1:B:1599:MET:N	2.31	0.56
1:B:2358:ILE:HB	1:C:195:PHE:CG	2.39	0.56
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.05	0.56
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.05	0.56
1:B:3430:ASN:O	1:B:3434:LEU:HG	2.06	0.56
1:B:5001:THR:OG1	1:B:5002:GLU:OE2	2.24	0.56
1:D:128:THR:O	1:D:130:LYS:NZ	2.38	0.56
1:D:495:ASN:O	1:D:553:ARG:NH2	2.38	0.56
1:D:985:VAL:HB	1:D:1043:VAL:HG21	1.85	0.56
1:D:1229:ASN:H	1:D:1827:ARG:NH2	2.02	0.56
1:D:2293:GLN:HA	1:D:2296:GLU:HG2	1.87	0.56
1:D:2449:GLU:O	1:D:2453:ILE:HG12	2.06	0.56
1:D:3180:ASN:H	1:D:3183:VAL:HB	1.69	0.56
1:D:3811:GLU:HG2	1:D:3815:LYS:HE2	1.86	0.56
1:D:5029:ARG:O	1:D:5033:GLU:N	2.38	0.56
1:C:111:HIS:NE2	1:C:113:HIS:HB3	2.20	0.56
1:C:213:TYR:N	1:C:341:TYR:H	2.02	0.56
1:C:234:SER:O	1:C:242:ARG:NE	2.34	0.56
1:C:1869:GLU:N	1:C:1869:GLU:OE2	2.38	0.56
1:C:2027:ILE:HA	1:C:2030:ASP:OD1	2.04	0.56
1:C:3106:MET:N	1:C:3106:MET:SD	2.78	0.56
1:C:4929:LEU:HD23	1:C:4932:ILE:HD11	1.87	0.56
1:C:5001:THR:OG1	1:C:5002:GLU:OE2	2.24	0.56
1:C:5029:ARG:O	1:C:5033:GLU:N	2.38	0.56
1:A:128:THR:O	1:A:130:LYS:NZ	2.38	0.56
1:A:379:HIS:HB3	1:A:382:GLY:HA2	1.86	0.56
1:A:394:GLN:HE22	1:A:396:GLU:H	1.51	0.56
2:F:56:ILE:HD12	2:F:56:ILE:H	1.70	0.56
2:F:87:HIS:CE1	2:F:90:ILE:HD13	2.40	0.56
1:B:115:ARG:HH11	1:B:395:GLN:HE22	1.53	0.56
1:B:1077:ALA:HA	1:B:1236:THR:HG22	1.87	0.56
1:B:1508:ARG:HH11	1:B:1508:ARG:HA	1.70	0.56
1:B:1762:LEU:HD12	1:B:1763:PRO:HD2	1.86	0.56
1:B:2244:ARG:HH12	1:B:3861:GLU:H	1.51	0.56
1:B:2755:ILE:HD13	1:B:2810:LYS:HA	1.86	0.56
1:B:3346:VAL:HG21	1:B:3411:LEU:HB2	1.86	0.56
1:B:4711:PHE:O	1:B:4713:SER:N	2.37	0.56
1:D:1171:SER:OG	1:D:1175:SER:O	2.24	0.56
1:D:1424:PRO:HA	1:D:1427:ILE:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1805:GLU:H	1:C:1805:GLU:CD	2.14	0.56
1:C:2336:ARG:NH1	1:C:2431:ASP:OD2	2.38	0.56
1:C:3969:ILE:HD11	1:C:3977:GLN:HG2	1.86	0.56
1:C:4563:ARG:NH2	1:C:4815:ASP:OD2	2.39	0.56
1:A:2293:GLN:HA	1:A:2296:GLU:HG2	1.87	0.56
1:A:3573:MET:O	1:A:3577:ARG:HG2	2.06	0.56
1:B:128:THR:O	1:B:130:LYS:NZ	2.38	0.56
1:B:188:GLU:OE1	1:B:190:GLN:NE2	2.39	0.56
1:B:2027:ILE:HA	1:B:2030:ASP:OD1	2.04	0.56
1:B:2199:ARG:NE	1:B:2246:ASN:OD1	2.39	0.56
1:B:3327:LEU:HB2	1:B:3364:ARG:HH21	1.69	0.56
1:B:4563:ARG:NH2	1:B:4815:ASP:OD2	2.39	0.56
1:D:379:HIS:HB3	1:D:382:GLY:HA2	1.86	0.56
1:D:439:GLU:OE2	1:D:439:GLU:N	2.25	0.56
1:D:915:GLU:OE1	1:D:915:GLU:N	2.36	0.56
1:D:985:VAL:HG21	1:D:1043:VAL:HG11	1.87	0.56
1:D:1762:LEU:HD12	1:D:1763:PRO:HD2	1.86	0.56
1:D:1772:ARG:NH2	1:D:1952:GLN:OE1	2.37	0.56
1:D:2095:GLN:CD	1:D:2095:GLN:H	2.13	0.56
1:D:2559:LEU:O	1:D:2563:THR:HG23	2.05	0.56
1:C:394:GLN:OE1	1:C:397:GLU:N	2.32	0.56
1:C:817:PRO:O	1:C:820:ARG:NH2	2.31	0.56
1:C:980:ALA:O	1:C:984:LEU:HG	2.04	0.56
1:C:985:VAL:HG21	1:C:1043:VAL:HG11	1.88	0.56
1:C:1077:ALA:HA	1:C:1236:THR:HG22	1.87	0.56
1:C:1762:LEU:HD12	1:C:1763:PRO:HD2	1.86	0.56
1:C:1805:GLU:OE1	1:C:1805:GLU:N	2.31	0.56
1:C:4885:PHE:O	1:C:4889:VAL:HG22	2.05	0.56
1:A:264:PRO:HA	1:A:280:LEU:HD23	1.88	0.56
1:A:495:ASN:O	1:A:553:ARG:NH2	2.38	0.56
1:A:915:GLU:OE1	1:A:915:GLU:N	2.36	0.56
1:A:1424:PRO:HA	1:A:1427:ILE:HG22	1.86	0.56
1:A:2490:MET:HE2	1:A:2546:MET:SD	2.46	0.56
1:A:2598:ALA:O	1:A:2602:VAL:HG23	2.05	0.56
1:A:3430:ASN:O	1:A:3434:LEU:HG	2.05	0.56
2:G:40:ARG:HD3	1:C:674:PHE:CD2	2.41	0.56
1:B:111:HIS:NE2	1:B:113:HIS:HB3	2.20	0.56
1:B:1252:HIS:HE1	1:B:1255:TYR:HD2	1.54	0.56
1:B:2314:LEU:HD11	1:B:2320:ASP:HB2	1.88	0.56
1:B:2481:LYS:NZ	1:B:2484:ALA:O	2.39	0.56
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3788:GLY:N	1:B:3831:SER:OG	2.39	0.56
1:B:4976:GLU:O	1:B:4980:LEU:HG	2.05	0.56
1:D:111:HIS:NE2	1:D:113:HIS:HB3	2.20	0.56
1:D:259:LEU:HD11	1:D:393:CYS:HB2	1.86	0.56
1:D:639:ASN:ND2	1:D:676:THR:OG1	2.37	0.56
1:D:840:VAL:HG22	1:D:1199:VAL:HG13	1.88	0.56
1:D:3350:ARG:O	1:D:3415:TYR:OH	2.23	0.56
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.04	0.56
1:D:3788:GLY:N	1:D:3831:SER:OG	2.39	0.56
1:D:4929:LEU:HD23	1:D:4932:ILE:HD11	1.87	0.56
1:C:3180:ASN:H	1:C:3183:VAL:HB	1.69	0.56
1:C:3346:VAL:HG21	1:C:3411:LEU:HB2	1.86	0.56
1:C:3367:LYS:O	1:C:3371:LYS:HG3	2.05	0.56
1:C:4963:ILE:HD13	1:C:5030:LYS:HZ1	1.71	0.56
1:A:1077:ALA:HA	1:A:1236:THR:HG22	1.87	0.56
1:A:1575:LEU:O	1:A:1579:MET:HG3	2.04	0.56
1:A:2424:SER:HA	1:A:2498:HIS:NE2	2.21	0.56
2:E:42:ARG:HB3	2:E:44:LYS:NZ	2.20	0.56
1:B:213:TYR:CD1	1:B:337:PRO:HB2	2.40	0.56
1:B:840:VAL:HG22	1:B:1199:VAL:HG13	1.88	0.56
1:B:3103:ILE:HD13	1:B:3168:THR:HG23	1.87	0.56
1:D:181:HIS:HA	1:D:198:THR:HB	1.87	0.56
1:D:188:GLU:OE1	1:D:190:GLN:NE2	2.39	0.56
1:D:264:PRO:HA	1:D:280:LEU:HD23	1.88	0.56
1:D:1979:LEU:O	1:D:1983:ALA:N	2.34	0.56
1:D:2336:ARG:NH1	1:D:2431:ASP:OD2	2.38	0.56
1:D:2481:LYS:NZ	1:D:2484:ALA:O	2.39	0.56
1:D:2520:HIS:CE1	1:D:2521:VAL:HG23	2.41	0.56
1:D:3403:ARG:NH2	1:D:3404:ASP:OD1	2.39	0.56
1:D:5001:THR:OG1	1:D:5002:GLU:OE2	2.24	0.56
1:C:1753:LYS:HE3	1:C:1758:ARG:HA	1.88	0.56
1:C:2230:THR:OG1	1:C:2268[B]:GLN:NE2	2.38	0.56
1:C:2559:LEU:HD21	1:C:2603:ILE:HG23	1.88	0.56
1:A:262:LEU:HD11	1:A:280:LEU:HB3	1.88	0.56
1:A:1508:ARG:HH11	1:A:1508:ARG:HA	1.70	0.56
1:A:1869:GLU:N	1:A:1869:GLU:OE2	2.38	0.56
1:A:2299:VAL:HG11	1:A:2356:LEU:HB3	1.88	0.56
1:A:2479:LEU:HA	1:A:2485:LEU:HA	1.87	0.56
1:A:2559:LEU:O	1:A:2563:THR:HG23	2.05	0.56
1:A:2981:VAL:HG22	1:A:2985:ARG:HH22	1.71	0.56
1:A:3432:GLU:HB3	1:A:3436:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:54:GLU:O	1:D:1785:ALA:N	2.30	0.56
2:F:42:ARG:NH2	1:B:1691:GLN:OE1	2.38	0.56
1:B:2490:MET:HE2	1:B:2546:MET:SD	2.46	0.56
1:B:3187:ARG:NH2	1:B:3263:TYR:OH	2.38	0.56
1:B:3432:GLU:HB3	1:B:3436:ARG:HH12	1.70	0.56
1:B:3768:SER:HA	1:B:3771:HIS:NE2	2.20	0.56
1:B:3777:GLU:N	1:B:3777:GLU:OE1	2.35	0.56
1:B:3888:LEU:HA	1:B:3891:LEU:HD12	1.87	0.56
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.36	0.56
1:D:2299:VAL:HG11	1:D:2356:LEU:HB3	1.88	0.56
1:D:2490:MET:HE2	1:D:2546:MET:SD	2.46	0.56
1:D:2580:ASP:OD2	1:D:2621:HIS:HB2	2.06	0.56
1:D:2825:LYS:NZ	1:D:2930:LEU:O	2.39	0.56
1:D:3860:ASN:HB3	1:D:3865:VAL:HB	1.88	0.56
1:C:128:THR:O	1:C:130:LYS:NZ	2.38	0.56
1:C:2317:GLY:HA3	1:C:2395:PRO:HB3	1.88	0.56
1:C:3140:LEU:HA	1:C:3143:LEU:HD12	1.86	0.56
1:A:290:TYR:N	1:A:302:VAL:O	2.39	0.56
1:B:181:HIS:HA	1:B:198:THR:HB	1.87	0.56
1:B:670:GLU:HA	1:B:740:PRO:HG3	1.86	0.56
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.06	0.56
1:B:2520:HIS:CE1	1:B:2521:VAL:HG23	2.41	0.56
1:B:3142:THR:HA	1:B:3145:GLN:OE1	2.05	0.56
1:B:3324:VAL:HA	1:B:3327:LEU:HG	1.88	0.56
1:D:1805:GLU:H	1:D:1805:GLU:CD	2.14	0.56
1:D:2559:LEU:HD21	1:D:2603:ILE:HG23	1.88	0.56
1:D:3367:LYS:O	1:D:3371:LYS:HG3	2.05	0.56
1:D:3573:MET:O	1:D:3577:ARG:HG2	2.06	0.56
1:D:4885:PHE:O	1:D:4889:VAL:HG22	2.05	0.56
1:C:262:LEU:HD11	1:C:280:LEU:HB3	1.88	0.56
1:C:2293:GLN:HA	1:C:2296:GLU:HG2	1.87	0.56
1:C:3180:ASN:O	1:C:3184:GLU:HG2	2.06	0.56
1:C:3324:VAL:HA	1:C:3327:LEU:HG	1.88	0.56
1:A:317:ARG:HH12	1:A:322:LYS:HG2	1.71	0.56
1:A:2481:LYS:NZ	1:A:2484:ALA:O	2.39	0.56
1:A:4037:ASN:O	1:A:4042:ARG:NH2	2.39	0.56
1:A:4875:LYS:O	1:A:4881:THR:HB	2.06	0.56
1:B:2212:VAL:HG11	1:B:2256:TYR:HE2	1.71	0.56
1:B:2293:GLN:HA	1:B:2296:GLU:HG2	1.87	0.56
1:B:2538:THR:O	1:B:2542:SER:OG	2.23	0.56
1:B:2766:TRP:HE3	1:B:2790:MET:HE3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2956:ALA:O	1:B:2960:LEU:HG	2.06	0.56
1:B:3140:LEU:HA	1:B:3143:LEU:HD12	1.86	0.56
1:B:3611:HIS:ND1	1:B:3611:HIS:O	2.38	0.56
1:D:2230:THR:OG1	1:D:2268[B]:GLN:NE2	2.38	0.56
1:D:2317:GLY:HA3	1:D:2395:PRO:HB3	1.88	0.56
1:D:3333:THR:O	1:D:3336:LYS:HG2	2.06	0.56
1:D:3432:GLU:HB3	1:D:3436:ARG:NH1	2.21	0.56
1:C:188:GLU:OE1	1:C:190:GLN:NE2	2.39	0.56
1:C:490:CYS:O	1:C:494:LEU:HD12	2.05	0.56
1:C:2766:TRP:HE3	1:C:2790:MET:HE3	1.71	0.56
1:A:1147:ASP:HB3	1:A:1164:LEU:HD11	1.88	0.55
1:A:3350:ARG:O	1:A:3415:TYR:OH	2.23	0.55
1:A:5001:THR:OG1	1:A:5002:GLU:OE2	2.24	0.55
1:B:261:ARG:NH2	1:B:262:LEU:O	2.28	0.55
1:B:264:PRO:HA	1:B:280:LEU:HD23	1.88	0.55
1:B:639:ASN:ND2	1:B:676:THR:OG1	2.37	0.55
1:B:3146:HIS:CD2	1:B:3147:ILE:HD12	2.37	0.55
1:B:3180:ASN:O	1:B:3184:GLU:HG2	2.06	0.55
1:B:3432:GLU:HB3	1:B:3436:ARG:NH1	2.21	0.55
1:B:3946:GLN:OE1	1:B:3946:GLN:HA	2.06	0.55
1:B:4006:ASP:OD1	1:B:4007:SER:N	2.40	0.55
1:D:2199:ARG:NE	1:D:2246:ASN:OD1	2.39	0.55
1:D:2424:SER:HA	1:D:2498:HIS:NE2	2.21	0.55
1:D:3430:ASN:O	1:D:3434:LEU:HG	2.06	0.55
1:D:3755:GLU:O	1:D:3758:MET:HE3	2.06	0.55
1:D:4006:ASP:OD1	1:D:4007:SER:N	2.40	0.55
1:D:4563:ARG:NH2	1:D:4815:ASP:OD2	2.39	0.55
1:C:181:HIS:HA	1:C:198:THR:HB	1.87	0.55
1:C:1443:GLN:OE1	1:C:1557:THR:N	2.38	0.55
1:C:2314:LEU:HD11	1:C:2320:ASP:HB2	1.88	0.55
1:C:2490:MET:HE2	1:C:2546:MET:SD	2.46	0.55
1:C:3150:HIS:HB3	1:C:3152:PHE:CE1	2.42	0.55
1:C:3430:ASN:O	1:C:3434:LEU:HG	2.05	0.55
1:C:4875:LYS:O	1:C:4881:THR:HB	2.06	0.55
1:C:5006:GLN:H	1:C:5006:GLN:CD	2.12	0.55
1:A:2199:ARG:NE	1:A:2246:ASN:OD1	2.39	0.55
1:A:2225:PHE:CB	1:A:2228:MET:HE2	2.36	0.55
1:A:2358:ILE:HG13	1:A:2359:ARG:HH21	1.70	0.55
1:A:2580:ASP:OD2	1:A:2621:HIS:HB2	2.06	0.55
1:A:3333:THR:O	1:A:3336:LYS:HG2	2.06	0.55
1:A:3433:GLU:OE2	1:A:3436:ARG:NE	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3755:GLU:O	1:A:3758:MET:HE3	2.06	0.55
1:A:4006:ASP:OD1	1:A:4007:SER:N	2.40	0.55
1:B:1869:GLU:N	1:B:1869:GLU:OE2	2.38	0.55
1:B:1947:CYS:HB2	1:B:2126:ARG:HH12	1.71	0.55
1:B:1979:LEU:O	1:B:1983:ALA:N	2.34	0.55
1:B:2424:SER:HA	1:B:2498:HIS:NE2	2.21	0.55
1:B:3403:ARG:NH2	1:B:3404:ASP:OD1	2.39	0.55
1:D:2956:ALA:O	1:D:2960:LEU:HG	2.06	0.55
1:D:3432:GLU:HB3	1:D:3436:ARG:HH12	1.70	0.55
1:C:1124:PHE:HB3	1:C:1162:PHE:CE2	2.41	0.55
1:C:2299:VAL:HG11	1:C:2356:LEU:HB3	1.88	0.55
1:C:2449:GLU:O	1:C:2453:ILE:HG12	2.06	0.55
1:C:3103:ILE:HD13	1:C:3168:THR:HG23	1.87	0.55
1:C:3146:HIS:CD2	1:C:3147:ILE:HD12	2.37	0.55
1:C:3432:GLU:HB3	1:C:3436:ARG:HH12	1.70	0.55
1:C:3755:GLU:O	1:C:3758:MET:HE3	2.06	0.55
1:C:3888:LEU:HA	1:C:3891:LEU:HD12	1.87	0.55
1:A:139:GLU:OE1	1:A:139:GLU:N	2.40	0.55
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.07	0.55
1:A:2766:TRP:HE3	1:A:2790:MET:HE3	1.71	0.55
1:A:3432:GLU:HB3	1:A:3436:ARG:HH12	1.70	0.55
1:A:3860:ASN:HB3	1:A:3865:VAL:HB	1.88	0.55
1:B:985:VAL:HG21	1:B:1043:VAL:HG11	1.88	0.55
1:B:1147:ASP:HB3	1:B:1164:LEU:HD11	1.88	0.55
1:B:2186:MET:N	1:B:2186:MET:SD	2.79	0.55
1:B:2580:ASP:OD2	1:B:2621:HIS:HB2	2.06	0.55
1:D:288:GLY:HA3	1:D:405:HIS:CE1	2.42	0.55
1:D:2225:PHE:CB	1:D:2228:MET:HE2	2.36	0.55
1:D:2358:ILE:HG13	1:D:2359:ARG:HH21	1.70	0.55
1:D:3247:ASP:N	1:D:3247:ASP:OD1	2.37	0.55
1:C:2138:LEU:HD13	1:C:3658:LYS:HB2	1.89	0.55
1:C:2186:MET:N	1:C:2186:MET:SD	2.79	0.55
1:C:2212:VAL:HG11	1:C:2256:TYR:HE2	1.71	0.55
1:C:2580:ASP:OD2	1:C:2621:HIS:HB2	2.06	0.55
1:C:2825:LYS:NZ	1:C:2930:LEU:O	2.39	0.55
1:C:3043:PHE:HA	1:C:3071:LEU:HD13	1.89	0.55
1:A:467:LYS:HZ1	1:A:471:LEU:HB2	1.71	0.55
1:A:1753:LYS:HE3	1:A:1758:ARG:HA	1.88	0.55
1:A:2095:GLN:CD	1:A:2095:GLN:H	2.13	0.55
1:A:2786:LYS:HD2	1:A:2786:LYS:O	2.07	0.55
1:A:2891:LYS:O	1:A:2895:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:960:MET:HE3	1:B:960:MET:H	1.72	0.55
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.07	0.55
1:B:2317:GLY:HA3	1:B:2395:PRO:HB3	1.88	0.55
1:B:2825:LYS:NZ	1:B:2930:LEU:O	2.39	0.55
1:D:262:LEU:HD11	1:D:280:LEU:HB3	1.88	0.55
1:D:1115:LEU:H	1:D:1115:LEU:HD12	1.72	0.55
1:D:1147:ASP:HB3	1:D:1164:LEU:HD11	1.88	0.55
1:D:2538:THR:O	1:D:2542:SER:OG	2.23	0.55
1:D:3043:PHE:HA	1:D:3071:LEU:HD13	1.89	0.55
1:D:3103:ILE:HD13	1:D:3168:THR:HG23	1.87	0.55
1:D:4156:HIS:HA	1:D:4161:ARG:NH2	2.22	0.55
1:D:4634:GLU:CD	1:D:4637:GLY:H	2.15	0.55
1:C:1252:HIS:HE1	1:C:1255:TYR:HD2	1.53	0.55
1:C:2358:ILE:HG13	1:C:2359:ARG:HH21	1.70	0.55
1:C:2956:ALA:O	1:C:2960:LEU:HG	2.06	0.55
1:A:1813:ARG:O	1:A:1817:GLU:HG3	2.07	0.55
1:A:2314:LEU:HD11	1:A:2320:ASP:HB2	1.88	0.55
1:A:2588:ARG:HB2	1:A:2625:ARG:HH22	1.72	0.55
2:H:66:MET:HE2	2:H:66:MET:HA	1.87	0.55
2:G:25:HIS:HB2	2:G:104:LEU:HD21	1.89	0.55
2:G:105:LYS:HZ3	2:G:106:LEU:H	1.54	0.55
1:B:139:GLU:OE1	1:B:139:GLU:N	2.40	0.55
1:B:154:SER:OG	1:B:155:LYS:N	2.34	0.55
1:B:262:LEU:HD11	1:B:280:LEU:HB3	1.88	0.55
1:B:1124:PHE:HB3	1:B:1162:PHE:CE2	2.41	0.55
1:B:2588:ARG:HB2	1:B:2625:ARG:HH22	1.72	0.55
1:B:3043:PHE:HA	1:B:3071:LEU:HD13	1.89	0.55
1:B:3257:ALA:HB1	1:B:3321:ARG:HB3	1.89	0.55
1:D:799:GLU:N	1:D:799:GLU:OE2	2.40	0.55
1:D:1124:PHE:HB3	1:D:1162:PHE:CE2	2.41	0.55
1:D:2766:TRP:HE3	1:D:2790:MET:HE3	1.71	0.55
1:D:2786:LYS:HD2	1:D:2786:LYS:O	2.07	0.55
1:D:4875:LYS:O	1:D:4881:THR:HB	2.06	0.55
1:C:639:ASN:ND2	1:C:676:THR:OG1	2.37	0.55
1:C:840:VAL:HG22	1:C:1199:VAL:HG13	1.88	0.55
1:C:1147:ASP:HB3	1:C:1164:LEU:HD11	1.89	0.55
1:C:1246:GLU:O	1:C:1599:MET:N	2.30	0.55
1:C:1839:VAL:HG13	1:C:1843:LYS:HE3	1.89	0.55
1:A:2956:ALA:O	1:A:2960:LEU:HG	2.06	0.55
1:A:3180:ASN:O	1:A:3184:GLU:HG2	2.06	0.55
1:A:4069:LYS:HD2	1:A:4129:ALA:HB1	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4880:MET:HE2	1:A:4880:MET:H	1.71	0.55
1:B:2138:LEU:HD13	1:B:3658:LYS:HB2	1.89	0.55
1:B:2798:SER:OG	1:B:2801:ASP:OD2	2.18	0.55
1:B:3354:LEU:HA	1:B:3358:PHE:HB2	1.89	0.55
1:B:3755:GLU:O	1:B:3758:MET:HE3	2.06	0.55
1:B:4069:LYS:HD2	1:B:4129:ALA:HB1	1.89	0.55
1:D:290:TYR:N	1:D:302:VAL:O	2.39	0.55
1:D:670:GLU:HA	1:D:740:PRO:HG3	1.86	0.55
1:D:1813:ARG:O	1:D:1817:GLU:HG3	2.07	0.55
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.07	0.55
1:D:2891:LYS:O	1:D:2895:GLU:HG2	2.07	0.55
1:C:264:PRO:HA	1:C:280:LEU:HD23	1.87	0.55
1:C:497:TYR:HA	1:C:502:HIS:CE1	2.42	0.55
1:C:2481:LYS:NZ	1:C:2484:ALA:O	2.39	0.55
1:C:2707:ALA:HB1	1:C:3009:TYR:HD2	1.72	0.55
1:C:3611:HIS:O	1:C:3611:HIS:ND1	2.37	0.55
1:C:3647:HIS:CE1	1:C:3648:ARG:HG3	2.42	0.55
1:A:188:GLU:OE1	1:A:190:GLN:NE2	2.39	0.55
1:A:288:GLY:HA3	1:A:405:HIS:CE1	2.42	0.55
1:A:1252:HIS:HE1	1:A:1255:TYR:HD2	1.53	0.55
1:A:2138:LEU:HD13	1:A:3658:LYS:HB2	1.89	0.55
1:A:2825:LYS:NZ	1:A:2930:LEU:O	2.39	0.55
1:A:3257:ALA:HB1	1:A:3321:ARG:HB3	1.89	0.55
1:A:4156:HIS:HA	1:A:4161:ARG:NH2	2.22	0.55
1:A:4976:GLU:O	1:A:4980:LEU:HG	2.05	0.55
2:H:22:CYS:HA	2:H:106:LEU:HA	1.89	0.55
2:H:88:PRO:CA	1:D:623:GLU:OE1	2.54	0.55
2:G:7:ILE:HB	2:G:71:ARG:HG2	1.88	0.55
1:B:317:ARG:HH12	1:B:322:LYS:HG2	1.71	0.55
1:B:1753:LYS:HE3	1:B:1758:ARG:HA	1.88	0.55
1:B:2107:GLN:HE22	1:B:3680:ALA:HA	1.72	0.55
1:B:2981:VAL:HG22	1:B:2985:ARG:HH22	1.71	0.55
1:B:3333:THR:O	1:B:3336:LYS:HG2	2.06	0.55
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.07	0.55
1:D:2107:GLN:HE22	1:D:3680:ALA:HA	1.72	0.55
1:D:3150:HIS:HB3	1:D:3152:PHE:CE1	2.42	0.55
1:D:4069:LYS:HD2	1:D:4129:ALA:HB1	1.89	0.55
1:C:799:GLU:N	1:C:799:GLU:OE2	2.40	0.55
1:C:1115:LEU:H	1:C:1115:LEU:HD12	1.72	0.55
1:C:2199:ARG:NE	1:C:2246:ASN:OD1	2.39	0.55
1:C:2424:SER:HA	1:C:2498:HIS:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:SER:OG	1:A:1175:SER:O	2.24	0.55
1:A:1938:GLN:HA	1:A:1941:ASN:ND2	2.22	0.55
1:A:1947:CYS:HB2	1:A:2126:ARG:HH12	1.71	0.55
1:A:2186:MET:SD	1:A:2186:MET:N	2.79	0.55
1:A:3043:PHE:HA	1:A:3071:LEU:HD13	1.89	0.55
1:A:4735:GLU:OE1	1:A:4735:GLU:N	2.39	0.55
1:A:4885:PHE:O	1:A:4889:VAL:HG22	2.05	0.55
1:B:799:GLU:N	1:B:799:GLU:OE2	2.40	0.55
1:B:2259:GLU:HB2	1:B:2297:LYS:HZ3	1.71	0.55
1:B:2308:GLN:OE1	1:B:2308:GLN:N	2.40	0.55
1:B:3433:GLU:OE2	1:B:3436:ARG:NE	2.36	0.55
1:B:4875:LYS:O	1:B:4881:THR:HB	2.06	0.55
1:D:2996:LYS:HE3	1:D:3000:LYS:HD3	1.89	0.55
1:D:3450:ASN:HA	1:D:3453:ARG:NE	2.22	0.55
1:D:3888:LEU:HA	1:D:3891:LEU:HD12	1.87	0.55
1:D:4880:MET:HE2	1:D:4880:MET:H	1.72	0.55
1:C:317:ARG:HH12	1:C:322:LYS:HG2	1.71	0.55
1:C:2225:PHE:CB	1:C:2228:MET:HE2	2.36	0.55
1:C:2520:HIS:CE1	1:C:2521:VAL:HG23	2.41	0.55
1:C:2891:LYS:O	1:C:2895:GLU:HG2	2.07	0.55
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	1.88	0.55
1:C:3403:ARG:NH2	1:C:3404:ASP:OD1	2.39	0.55
1:C:3788:GLY:N	1:C:3831:SER:OG	2.39	0.55
1:C:4069:LYS:HD2	1:C:4129:ALA:HB1	1.89	0.55
1:A:303:ASP:OD2	1:A:305:CYS:N	2.36	0.55
1:A:1125:ASN:ND2	1:A:1128:ARG:HD2	2.22	0.55
1:A:1778:SER:HB3	1:A:1798:LEU:HB2	1.89	0.55
1:A:2193:GLN:HG3	1:A:2194:HIS:ND1	2.22	0.55
1:A:3103:ILE:HD13	1:A:3168:THR:HG23	1.87	0.55
1:A:3150:HIS:HB3	1:A:3152:PHE:CE1	2.42	0.55
1:A:3684:GLU:CD	1:A:3684:GLU:H	2.15	0.55
1:A:3888:LEU:HA	1:A:3891:LEU:HD12	1.87	0.55
2:F:59:TRP:CE3	1:B:1783:VAL:HG11	2.42	0.55
1:B:881:LEU:HD12	1:B:1041:GLN:HE21	1.72	0.55
1:B:1778:SER:HB3	1:B:1798:LEU:HB2	1.89	0.55
1:B:2299:VAL:HG11	1:B:2356:LEU:HB3	1.88	0.55
1:B:3150:HIS:HB3	1:B:3152:PHE:CE1	2.42	0.55
1:B:3579:LEU:HD22	1:B:3582:ARG:HG2	1.89	0.55
1:B:4037:ASN:O	1:B:4042:ARG:NH2	2.39	0.55
1:B:4746:ALA:O	1:B:4750:ILE:HG12	2.07	0.55
1:D:989:ALA:HA	1:D:1039:LEU:HD23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1851:MET:HE2	1:D:1851:MET:N	2.22	0.55
1:D:1938:GLN:HA	1:D:1941:ASN:ND2	2.22	0.55
1:D:2308:GLN:OE1	1:D:2308:GLN:N	2.40	0.55
1:D:2314:LEU:HD11	1:D:2320:ASP:HB2	1.88	0.55
1:D:3257:ALA:HB1	1:D:3321:ARG:HB3	1.89	0.55
1:D:3946:GLN:OE1	1:D:3946:GLN:HA	2.06	0.55
1:C:960:MET:H	1:C:960:MET:HE3	1.72	0.55
1:C:1286:MET:HB3	1:C:1462:MET:HE3	1.89	0.55
1:C:1851:MET:HE2	1:C:1851:MET:N	2.22	0.55
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.07	0.55
1:C:3354:LEU:HA	1:C:3358:PHE:HB2	1.89	0.55
1:C:4654:ALA:O	1:C:4658:ILE:HG12	2.07	0.55
1:A:68:THR:O	1:A:110:ARG:N	2.34	0.55
1:A:181:HIS:HA	1:A:198:THR:HB	1.87	0.55
1:A:799:GLU:N	1:A:799:GLU:OE2	2.40	0.55
1:A:1124:PHE:HB3	1:A:1162:PHE:CE2	2.41	0.55
1:A:2107:GLN:HE22	1:A:3680:ALA:HA	1.72	0.55
1:A:2520:HIS:CE1	1:A:2521:VAL:HG23	2.41	0.55
1:A:2559:LEU:HD21	1:A:2603:ILE:HG23	1.87	0.55
1:B:3647:HIS:CE1	1:B:3648:ARG:HG3	2.42	0.55
1:B:3775:ALA:O	1:B:3778:MET:HG2	2.07	0.55
1:D:28:VAL:N	1:D:31:GLU:O	2.31	0.55
1:D:303:ASP:OD2	1:D:305:CYS:N	2.36	0.55
1:D:1855:GLY:O	1:D:1859:VAL:HG23	2.07	0.55
1:D:2138:LEU:HD13	1:D:3658:LYS:HB2	1.89	0.55
1:D:2186:MET:N	1:D:2186:MET:SD	2.79	0.55
1:D:2627:VAL:HG22	1:D:2678:LEU:HD11	1.89	0.55
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.07	0.55
1:D:3324:VAL:HA	1:D:3327:LEU:HG	1.88	0.55
1:D:3895:HIS:HB3	1:D:3971:GLY:HA2	1.89	0.55
1:D:4037:ASN:O	1:D:4042:ARG:NH2	2.39	0.55
1:C:1125:ASN:ND2	1:C:1128:ARG:HD2	2.22	0.55
1:C:1778:SER:HB3	1:C:1798:LEU:HB2	1.89	0.55
1:C:1855:GLY:O	1:C:1859:VAL:HG23	2.07	0.55
1:C:2577:ILE:HD12	1:C:2578:MET:N	2.20	0.55
1:C:2588:ARG:HB2	1:C:2625:ARG:HH22	1.72	0.55
1:C:3247:ASP:OD1	1:C:3247:ASP:N	2.37	0.55
1:C:3257:ALA:HB1	1:C:3321:ARG:HB3	1.89	0.55
1:C:3333:THR:O	1:C:3336:LYS:HG2	2.06	0.55
1:C:3579:LEU:HD22	1:C:3582:ARG:HG2	1.89	0.55
1:C:4634:GLU:CD	1:C:4637:GLY:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1228:ILE:HG22	1:A:1827:ARG:HH12	1.72	0.54
1:A:2578:MET:CE	1:A:2582:MET:HG3	2.37	0.54
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.07	0.54
1:A:3039:ILE:HB	1:A:3075:LEU:HD21	1.89	0.54
1:A:3647:HIS:CE1	1:A:3648:ARG:HG3	2.42	0.54
1:A:4634:GLU:CD	1:A:4637:GLY:H	2.15	0.54
1:B:989:ALA:HA	1:B:1039:LEU:HD23	1.89	0.54
1:B:1115:LEU:H	1:B:1115:LEU:HD12	1.72	0.54
1:B:1228:ILE:HG22	1:B:1827:ARG:HH12	1.72	0.54
1:B:1839:VAL:HG13	1:B:1843:LYS:HE3	1.89	0.54
1:B:2293:GLN:OE1	1:B:2293:GLN:N	2.24	0.54
1:B:2559:LEU:HD21	1:B:2603:ILE:HG23	1.87	0.54
1:B:3039:ILE:HB	1:B:3075:LEU:HD21	1.88	0.54
1:B:3522:LEU:HD22	1:C:1220:GLN:CD	2.32	0.54
1:D:467:LYS:HZ1	1:D:471:LEU:HB2	1.71	0.54
1:D:1753:LYS:HE3	1:D:1758:ARG:HA	1.88	0.54
1:D:2970:SER:HA	1:D:2973:PHE:HE2	1.71	0.54
1:D:2981:VAL:HG22	1:D:2985:ARG:HH22	1.71	0.54
1:D:3039:ILE:HB	1:D:3075:LEU:HD21	1.88	0.54
1:D:3647:HIS:CE1	1:D:3648:ARG:HG3	2.42	0.54
1:D:3684:GLU:CD	1:D:3684:GLU:H	2.15	0.54
1:C:1643:GLU:H	1:C:1643:GLU:CD	2.15	0.54
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.07	0.54
1:C:4963:ILE:HD13	1:C:5030:LYS:NZ	2.23	0.54
1:A:308:HIS:HD2	1:A:311:ALA:H	1.55	0.54
1:A:1115:LEU:HD12	1:A:1115:LEU:H	1.72	0.54
1:A:2005:GLN:HA	1:A:2008:MET:SD	2.47	0.54
1:A:2538:THR:O	1:A:2542:SER:OG	2.23	0.54
1:A:2996:LYS:HE3	1:A:3000:LYS:HD3	1.89	0.54
1:A:3036:LYS:HA	1:A:3039:ILE:HD12	1.89	0.54
1:A:3324:VAL:HA	1:A:3327:LEU:HG	1.88	0.54
1:A:3825:GLU:OE1	1:A:3828:PHE:N	2.41	0.54
2:G:13:ARG:HG3	2:G:14:THR:HG23	1.88	0.54
1:B:1286:MET:HB3	1:B:1462:MET:HE3	1.89	0.54
1:B:2005:GLN:HA	1:B:2008:MET:SD	2.47	0.54
1:B:2435:ARG:O	1:B:2508:ARG:NH2	2.41	0.54
1:B:4026:MET:O	1:B:4026:MET:HE3	2.07	0.54
1:B:4738:ALA:HA	1:B:4743:MET:SD	2.48	0.54
1:D:234:SER:O	1:D:242:ARG:NE	2.34	0.54
1:D:497:TYR:HA	1:D:502:HIS:CE1	2.42	0.54
1:D:1228:ILE:HG22	1:D:1827:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2588:ARG:HB2	1:D:2625:ARG:HH22	1.72	0.54
1:D:4024:VAL:HG11	1:D:4142:ASN:HB3	1.89	0.54
1:D:4951:LYS:O	1:D:4955:GLU:HG2	2.08	0.54
1:C:467:LYS:HZ1	1:C:471:LEU:HB2	1.70	0.54
1:C:881:LEU:HD12	1:C:1041:GLN:HE21	1.72	0.54
1:C:1938:GLN:HA	1:C:1941:ASN:ND2	2.22	0.54
1:C:2435:ARG:O	1:C:2508:ARG:NH2	2.41	0.54
1:C:3432:GLU:HB3	1:C:3436:ARG:NH1	2.21	0.54
1:C:3860:ASN:HB3	1:C:3865:VAL:HB	1.88	0.54
1:C:4727:LYS:HG2	1:C:4728:HIS:CE1	2.43	0.54
1:A:195:PHE:CG	1:D:2358:ILE:HB	2.43	0.54
1:A:497:TYR:HA	1:A:502:HIS:CE1	2.42	0.54
1:A:1025:ARG:HD3	1:A:1025:ARG:H	1.73	0.54
1:A:1855:GLY:O	1:A:1859:VAL:HG23	2.07	0.54
1:A:2627:VAL:HG22	1:A:2678:LEU:HD11	1.89	0.54
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	1.88	0.54
1:A:4204:GLN:HB3	1:A:4245:MET:HG3	1.90	0.54
2:F:34:LYS:NZ	1:B:628:GLY:O	2.40	0.54
1:B:2182:ILE:HA	1:B:2185:ILE:HD12	1.90	0.54
1:B:3450:ASN:HA	1:B:3453:ARG:NE	2.22	0.54
1:B:4727:LYS:HG2	1:B:4728:HIS:CE1	2.43	0.54
1:D:56:GLN:HA	1:D:309:THR:HG21	1.90	0.54
1:D:68:THR:O	1:D:110:ARG:N	2.34	0.54
1:D:394:GLN:OE1	1:D:397:GLU:N	2.32	0.54
1:D:1252:HIS:HE1	1:D:1255:TYR:HD2	1.53	0.54
1:D:3036:LYS:HA	1:D:3039:ILE:HD12	1.89	0.54
1:D:3246:LEU:HA	1:D:3249:LEU:HD12	1.90	0.54
1:D:3579:LEU:HD22	1:D:3582:ARG:HG2	1.89	0.54
1:D:4204:GLN:HB3	1:D:4245:MET:HG3	1.90	0.54
1:D:4727:LYS:HG2	1:D:4728:HIS:CE1	2.43	0.54
1:D:4746:ALA:O	1:D:4750:ILE:HG12	2.07	0.54
1:D:4877:ASP:HA	1:C:4582:VAL:CG2	2.36	0.54
1:C:989:ALA:HA	1:C:1039:LEU:HD23	1.89	0.54
1:C:1690:ASP:OD2	1:C:1693:GLN:N	2.40	0.54
1:C:3698:LEU:O	1:C:3702:VAL:HG23	2.08	0.54
1:C:4006:ASP:OD1	1:C:4007:SER:N	2.40	0.54
1:C:4746:ALA:O	1:C:4750:ILE:HG12	2.07	0.54
1:A:1851:MET:HE2	1:A:1851:MET:N	2.22	0.54
1:A:3403:ARG:NH2	1:A:3404:ASP:OD1	2.39	0.54
1:A:3895:HIS:HB3	1:A:3971:GLY:HA2	1.89	0.54
1:A:4074:SER:O	1:A:4078:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:ARG:CZ	1:B:674:PHE:CD2	2.59	0.54
2:F:105:LYS:HZ3	2:F:106:LEU:H	1.54	0.54
1:B:199:LEU:HD12	1:B:200:TRP:N	2.23	0.54
1:B:1025:ARG:H	1:B:1025:ARG:HD3	1.73	0.54
1:B:1690:ASP:OD2	1:B:1693:GLN:N	2.40	0.54
1:B:2301:TYR:HB3	1:B:2331:TYR:CZ	2.43	0.54
1:B:2707:ALA:HB1	1:B:3009:TYR:HD2	1.72	0.54
1:B:2786:LYS:HD2	1:B:2786:LYS:O	2.07	0.54
1:B:3242:ASP:OD1	1:B:3242:ASP:N	2.33	0.54
1:B:3698:LEU:O	1:B:3702:VAL:HG23	2.08	0.54
1:B:4951:LYS:O	1:B:4955:GLU:HG2	2.08	0.54
1:D:593:HIS:HA	1:D:1593:PRO:HG2	1.89	0.54
1:D:2578:MET:CE	1:D:2582:MET:HG3	2.37	0.54
1:D:2707:ALA:HB1	1:D:3009:TYR:HD2	1.72	0.54
1:D:4156:HIS:HA	1:D:4161:ARG:HH21	1.73	0.54
1:C:593:HIS:HA	1:C:1593:PRO:HG2	1.89	0.54
1:C:2621:HIS:HA	1:C:2624:ARG:HE	1.73	0.54
1:C:2786:LYS:O	1:C:2786:LYS:HD2	2.07	0.54
1:C:2981:VAL:HG22	1:C:2985:ARG:HH22	1.71	0.54
1:C:3036:LYS:HA	1:C:3039:ILE:HD12	1.89	0.54
1:C:4001:MET:O	1:C:4005:GLN:NE2	2.34	0.54
1:C:4156:HIS:HA	1:C:4161:ARG:HH21	1.73	0.54
1:A:2308:GLN:N	1:A:2308:GLN:OE1	2.40	0.54
1:A:2431:ASP:O	1:A:2435:ARG:HG3	2.08	0.54
1:A:3579:LEU:HD22	1:A:3582:ARG:HG2	1.89	0.54
1:A:4024:VAL:HG11	1:A:4142:ASN:HB3	1.89	0.54
1:A:5030:LYS:HA	1:A:5033:GLU:HB2	1.90	0.54
1:B:290:TYR:N	1:B:302:VAL:O	2.39	0.54
1:B:497:TYR:HA	1:B:502:HIS:CE1	2.42	0.54
1:B:1938:GLN:HA	1:B:1941:ASN:ND2	2.22	0.54
1:B:3684:GLU:CD	1:B:3684:GLU:H	2.15	0.54
1:D:139:GLU:N	1:D:139:GLU:OE1	2.40	0.54
1:D:881:LEU:HD12	1:D:1041:GLN:HE21	1.72	0.54
1:D:2005:GLN:HA	1:D:2008:MET:SD	2.47	0.54
1:D:2193:GLN:HG3	1:D:2194:HIS:ND1	2.22	0.54
1:D:2310:CYS:HB2	1:D:2312:MET:HE3	1.90	0.54
1:D:2435:ARG:O	1:D:2508:ARG:NH2	2.41	0.54
1:D:2452:ARG:HD2	1:D:2453:ILE:HD13	1.90	0.54
1:D:3180:ASN:O	1:D:3184:GLU:HG2	2.06	0.54
1:D:4026:MET:O	1:D:4026:MET:HE3	2.07	0.54
1:D:4963:ILE:HD13	1:D:5030:LYS:NZ	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4156:HIS:HA	1:C:4161:ARG:NH2	2.22	0.54
1:C:4880:MET:HE2	1:C:4880:MET:H	1.72	0.54
1:A:1108:GLU:OE2	1:A:1108:GLU:N	2.36	0.54
1:A:1717:SER:O	1:A:1721:GLU:HG2	2.08	0.54
1:A:1805:GLU:OE1	1:A:1805:GLU:N	2.31	0.54
1:A:2212:VAL:HG11	1:A:2256:TYR:HE2	1.71	0.54
1:A:2301:TYR:HB3	1:A:2331:TYR:CZ	2.43	0.54
1:A:3775:ALA:O	1:A:3778:MET:HG2	2.07	0.54
1:A:4026:MET:O	1:A:4026:MET:HE3	2.07	0.54
1:A:4156:HIS:HA	1:A:4161:ARG:HH21	1.73	0.54
1:A:4738:ALA:HA	1:A:4743:MET:SD	2.48	0.54
1:A:4902:GLU:OE2	1:A:4902:GLU:N	2.26	0.54
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.08	0.54
2:F:18:ARG:NH2	2:F:51:GLY:HA3	2.21	0.54
2:F:54:GLU:O	1:B:1785:ALA:N	2.31	0.54
1:B:1813:ARG:O	1:B:1817:GLU:HG3	2.07	0.54
1:B:2193:GLN:HG3	1:B:2194:HIS:ND1	2.22	0.54
1:B:2431:ASP:O	1:B:2435:ARG:HG3	2.08	0.54
1:B:2466:LEU:HA	1:B:2469:ILE:HD12	1.90	0.54
1:B:2577:ILE:HD12	1:B:2578:MET:N	2.20	0.54
1:B:3036:LYS:HA	1:B:3039:ILE:HD12	1.90	0.54
1:B:4156:HIS:HA	1:B:4161:ARG:NH2	2.22	0.54
1:B:4634:GLU:CD	1:B:4637:GLY:H	2.15	0.54
1:D:960:MET:HE3	1:D:960:MET:H	1.72	0.54
1:D:1286:MET:HB3	1:D:1462:MET:HE3	1.89	0.54
1:D:1778:SER:HB3	1:D:1798:LEU:HB2	1.89	0.54
1:D:2431:ASP:O	1:D:2435:ARG:HG3	2.08	0.54
1:D:3411:LEU:HD12	1:D:3412:LEU:N	2.23	0.54
1:C:288:GLY:HA3	1:C:405:HIS:CE1	2.42	0.54
1:C:1228:ILE:HG22	1:C:1827:ARG:HH12	1.72	0.54
1:C:1717:SER:O	1:C:1721:GLU:HG2	2.08	0.54
1:C:2308:GLN:OE1	1:C:2308:GLN:N	2.40	0.54
1:C:3895:HIS:HB3	1:C:3971:GLY:HA2	1.89	0.54
1:C:4026:MET:HE3	1:C:4026:MET:O	2.07	0.54
1:A:960:MET:H	1:A:960:MET:HE3	1.72	0.54
1:A:1643:GLU:H	1:A:1643:GLU:CD	2.15	0.54
1:A:2317:GLY:HA3	1:A:2395:PRO:HB3	1.88	0.54
1:A:2822:THR:OG1	1:A:2824:GLU:OE2	2.21	0.54
1:A:3247:ASP:HA	1:A:3250:MET:HG2	1.89	0.54
1:A:3698:LEU:O	1:A:3702:VAL:HG23	2.08	0.54
2:H:3:GLN:OE1	2:H:3:GLN:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1108:GLU:OE2	1:B:1108:GLU:N	2.36	0.54
1:B:1954:ARG:NH2	1:B:2041:HIS:O	2.41	0.54
1:B:2654:TYR:HA	1:B:2661:TRP:HB2	1.90	0.54
1:B:4204:GLN:HB3	1:B:4245:MET:HG3	1.90	0.54
1:B:4735:GLU:OE1	1:B:4735:GLU:N	2.39	0.54
1:B:4963:ILE:HD13	1:B:5030:LYS:NZ	2.23	0.54
1:D:308:HIS:HD2	1:D:311:ALA:H	1.55	0.54
1:D:317:ARG:HH12	1:D:322:LYS:HG2	1.71	0.54
1:D:2177:LEU:HD12	1:D:2180:GLN:NE2	2.23	0.54
1:D:2212:VAL:HG11	1:D:2256:TYR:HE2	1.71	0.54
1:D:2318:TYR:OH	1:D:2418:LEU:N	2.41	0.54
1:D:3611:HIS:ND1	1:D:3611:HIS:O	2.38	0.54
1:D:5030:LYS:HA	1:D:5033:GLU:HB2	1.90	0.54
1:C:1979:LEU:O	1:C:1983:ALA:N	2.34	0.54
1:C:2107:GLN:HE22	1:C:3680:ALA:HA	1.72	0.54
1:C:3411:LEU:HD12	1:C:3412:LEU:N	2.23	0.54
1:C:4738:ALA:HA	1:C:4743:MET:SD	2.48	0.54
1:C:5030:LYS:HA	1:C:5033:GLU:HB2	1.90	0.54
1:A:1216:ILE:HG23	1:D:3424:LEU:HD13	1.90	0.54
1:A:1954:ARG:NH2	1:A:2041:HIS:O	2.41	0.54
1:A:3246:LEU:HA	1:A:3249:LEU:HD12	1.90	0.54
1:A:3456:GLN:O	1:A:3460:VAL:HG13	2.08	0.54
2:E:15:PHE:H	2:E:17:LYS:HZ3	1.56	0.54
1:B:56:GLN:HA	1:B:309:THR:HG21	1.90	0.54
1:B:1272:LEU:HD22	1:B:1289:LEU:HD21	1.90	0.54
1:B:2177:LEU:HD12	1:B:2180:GLN:NE2	2.23	0.54
1:B:2318:TYR:OH	1:B:2418:LEU:N	2.41	0.54
1:B:2891:LYS:O	1:B:2895:GLU:HG2	2.07	0.54
1:B:3246:LEU:HA	1:B:3249:LEU:HD12	1.90	0.54
1:D:1643:GLU:H	1:D:1643:GLU:CD	2.15	0.54
1:D:3354:LEU:HA	1:D:3358:PHE:HB2	1.89	0.54
1:C:2281:ILE:HG13	1:C:2282:ASP:OD1	2.08	0.54
1:C:2452:ARG:HD2	1:C:2453:ILE:HD13	1.90	0.54
1:C:2466:LEU:HA	1:C:2469:ILE:HD12	1.90	0.54
1:C:2538:THR:O	1:C:2542:SER:OG	2.23	0.54
1:C:3210:LEU:HB3	1:C:3304:CYS:O	2.08	0.54
1:C:3450:ASN:HA	1:C:3453:ARG:NE	2.22	0.54
1:C:4869:GLU:OE1	1:C:4869:GLU:N	2.29	0.54
1:A:1543:GLU:O	1:A:1546:THR:OG1	2.19	0.54
1:A:2177:LEU:HD12	1:A:2180:GLN:NE2	2.23	0.54
1:A:2452:ARG:HD2	1:A:2453:ILE:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3114:LYS:HE2	1:A:3116:SER:H	1.73	0.54
1:A:3210:LEU:HB3	1:A:3304:CYS:O	2.08	0.54
1:A:3450:ASN:HA	1:A:3453:ARG:NE	2.22	0.54
1:A:3943:ILE:O	1:A:3948:LYS:NZ	2.41	0.54
1:A:4727:LYS:HG2	1:A:4728:HIS:CE1	2.43	0.54
1:B:234:SER:O	1:B:242:ARG:NE	2.34	0.54
1:B:583:ILE:HA	1:B:586:ILE:HD12	1.90	0.54
1:B:1579:MET:HE1	1:B:1595:LEU:HD13	1.90	0.54
1:B:3456:GLN:O	1:B:3460:VAL:HG13	2.08	0.54
1:B:3822:ASP:O	1:B:3824:LYS:NZ	2.30	0.54
1:B:3895:HIS:HB3	1:B:3971:GLY:HA2	1.89	0.54
1:B:4156:HIS:HA	1:B:4161:ARG:HH21	1.73	0.54
1:D:23:GLN:HB3	1:D:34:LYS:NZ	2.23	0.54
1:D:630:GLU:OE2	1:D:630:GLU:N	2.34	0.54
1:D:2003:GLN:NE2	1:D:2007:ASN:OD1	2.41	0.54
1:D:3698:LEU:O	1:D:3702:VAL:HG23	2.08	0.54
1:C:2182:ILE:HA	1:C:2185:ILE:HD12	1.89	0.54
1:C:2431:ASP:O	1:C:2435:ARG:HG3	2.08	0.54
1:C:3246:LEU:HA	1:C:3249:LEU:HD12	1.90	0.54
1:C:3943:ILE:O	1:C:3948:LYS:NZ	2.41	0.54
1:C:4074:SER:O	1:C:4078:GLN:HG2	2.08	0.54
1:A:989:ALA:HA	1:A:1039:LEU:HD23	1.89	0.54
1:A:1731:LEU:HA	1:A:1772:ARG:HH12	1.73	0.54
1:A:3354:LEU:HA	1:A:3358:PHE:HB2	1.89	0.54
1:A:3537:LYS:HE3	1:A:3603:LEU:HD13	1.90	0.54
1:A:4654:ALA:O	1:A:4658:ILE:HG12	2.07	0.54
2:F:37:ASP:HB2	1:B:1782:PHE:HD2	1.71	0.54
1:B:615:ARG:HH12	1:B:1678:ASN:HA	1.73	0.54
1:B:1851:MET:N	1:B:1851:MET:HE2	2.22	0.54
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.07	0.54
1:B:3085:PRO:O	1:B:3089:LYS:HG3	2.08	0.54
1:B:3617:LYS:HD2	1:B:3618:ALA:N	2.23	0.54
1:B:5030:LYS:HA	1:B:5033:GLU:HB2	1.90	0.54
1:D:195:PHE:CG	1:C:2358:ILE:HB	2.42	0.54
1:D:1025:ARG:H	1:D:1025:ARG:HD3	1.73	0.54
1:D:1125:ASN:ND2	1:D:1128:ARG:HD2	2.22	0.54
1:D:1947:CYS:HB2	1:D:2126:ARG:HH12	1.71	0.54
1:D:3617:LYS:HD2	1:D:3618:ALA:N	2.23	0.54
1:D:4074:SER:O	1:D:4078:GLN:HG2	2.08	0.54
1:D:4738:ALA:HA	1:D:4743:MET:SD	2.48	0.54
1:C:1813:ARG:O	1:C:1817:GLU:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4204:GLN:HB3	1:C:4245:MET:HG3	1.90	0.54
1:A:199:LEU:HD12	1:A:200:TRP:N	2.23	0.53
1:A:583:ILE:HA	1:A:586:ILE:HD12	1.90	0.53
1:A:866:HIS:O	1:A:870:ILE:HG12	2.08	0.53
1:A:2435:ARG:O	1:A:2508:ARG:NH2	2.41	0.53
1:A:2654:TYR:HA	1:A:2661:TRP:HB2	1.90	0.53
1:A:3222:LYS:HG3	1:A:3226:GLU:HB2	1.90	0.53
1:A:4963:ILE:HD13	1:A:5030:LYS:NZ	2.23	0.53
2:E:42:ARG:HB3	2:E:44:LYS:HZ3	1.73	0.53
2:G:10:GLY:HA3	2:G:70:GLN:HB2	1.90	0.53
1:B:1717:SER:O	1:B:1721:GLU:HG2	2.08	0.53
1:B:2281:ILE:HG13	1:B:2282:ASP:OD1	2.08	0.53
1:B:2516:ASP:N	1:B:2516:ASP:OD1	2.35	0.53
1:B:2996:LYS:HE3	1:B:3000:LYS:HD3	1.89	0.53
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	1.88	0.53
1:D:170:ILE:HG13	1:D:179:TYR:CE1	2.43	0.53
1:D:583:ILE:HA	1:D:586:ILE:HD12	1.90	0.53
1:D:1935:VAL:O	1:D:1939:MET:HG3	2.08	0.53
1:D:2195:PRO:HB2	1:D:2199:ARG:HH21	1.73	0.53
1:D:2281:ILE:HG13	1:D:2282:ASP:OD1	2.08	0.53
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.08	0.53
1:D:2616:PRO:HG3	1:D:2650:ARG:HH12	1.73	0.53
1:D:2822:THR:OG1	1:D:2824:GLU:OE2	2.21	0.53
1:D:4654:ALA:O	1:D:4658:ILE:HG12	2.07	0.53
1:C:615:ARG:HH12	1:C:1678:ASN:HA	1.73	0.53
1:C:866:HIS:O	1:C:870:ILE:HG12	2.08	0.53
1:C:1543:GLU:HG2	1:C:1544:PRO:HD2	1.90	0.53
1:C:1579:MET:HE1	1:C:1595:LEU:HD13	1.90	0.53
1:C:1947:CYS:HB2	1:C:2126:ARG:HH12	1.71	0.53
1:C:2193:GLN:HG3	1:C:2194:HIS:ND1	2.22	0.53
1:C:2740:VAL:HG12	1:C:2818:ALA:HB1	1.90	0.53
1:C:2996:LYS:HE3	1:C:3000:LYS:HD3	1.89	0.53
1:C:3039:ILE:HB	1:C:3075:LEU:HD21	1.89	0.53
1:C:3085:PRO:O	1:C:3089:LYS:HG3	2.08	0.53
1:C:3456:GLN:O	1:C:3460:VAL:HG13	2.08	0.53
1:C:3617:LYS:HD2	1:C:3618:ALA:N	2.23	0.53
1:C:3946:GLN:OE1	1:C:3946:GLN:HA	2.06	0.53
1:C:4024:VAL:HG11	1:C:4142:ASN:HB3	1.89	0.53
1:C:4951:LYS:O	1:C:4955:GLU:HG2	2.08	0.53
1:A:39:ALA:HB2	1:A:47:CYS:HB3	1.90	0.53
1:A:881:LEU:HD12	1:A:1041:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1733:GLU:OE1	1:A:1733:GLU:N	2.27	0.53
1:A:1839:VAL:HG13	1:A:1843:LYS:HE3	1.89	0.53
1:A:1935:VAL:O	1:A:1939:MET:HG3	2.08	0.53
1:A:2013:LYS:HB2	1:A:3661:TRP:CE2	2.43	0.53
1:A:2293:GLN:OE1	1:A:2293:GLN:N	2.24	0.53
1:A:2310:CYS:HB2	1:A:2312:MET:HE3	1.90	0.53
1:A:2616:PRO:HG3	1:A:2650:ARG:HH12	1.73	0.53
1:A:3946:GLN:OE1	1:A:3946:GLN:HA	2.06	0.53
1:A:4746:ALA:O	1:A:4750:ILE:HG12	2.07	0.53
1:B:23:GLN:HB3	1:B:34:LYS:NZ	2.23	0.53
1:B:288:GLY:HA3	1:B:405:HIS:CE1	2.42	0.53
1:B:1125:ASN:ND2	1:B:1128:ARG:HD2	2.22	0.53
1:B:1935:VAL:O	1:B:1939:MET:HG3	2.08	0.53
1:B:2003:GLN:NE2	1:B:2007:ASN:OD1	2.41	0.53
1:B:2960:LEU:HA	1:B:2963:LEU:HB2	1.90	0.53
1:B:2970:SER:HA	1:B:2973:PHE:HE2	1.71	0.53
1:B:3528:THR:HG22	1:B:3563:VAL:HB	1.90	0.53
1:B:3860:ASN:HB3	1:B:3865:VAL:HB	1.88	0.53
1:B:4689:THR:OG1	1:B:4690:GLU:OE1	2.16	0.53
1:B:4880:MET:HE2	1:B:4880:MET:H	1.72	0.53
1:D:1731:LEU:HA	1:D:1772:ARG:HH12	1.73	0.53
1:D:1839:VAL:HG13	1:D:1843:LYS:HE3	1.89	0.53
1:D:1954:ARG:NH2	1:D:2041:HIS:O	2.41	0.53
1:C:23:GLN:HB3	1:C:34:LYS:NZ	2.23	0.53
1:C:1108:GLU:OE2	1:C:1108:GLU:N	2.36	0.53
1:C:2177:LEU:HD12	1:C:2180:GLN:NE2	2.23	0.53
1:C:2204:HIS:O	1:C:2208:MET:HG2	2.09	0.53
1:C:2318:TYR:OH	1:C:2418:LEU:N	2.41	0.53
1:C:2578:MET:CE	1:C:2582:MET:HG3	2.37	0.53
1:C:3825:GLU:OE1	1:C:3828:PHE:N	2.41	0.53
1:C:4037:ASN:O	1:C:4042:ARG:NH2	2.39	0.53
1:A:1272:LEU:HD22	1:A:1289:LEU:HD21	1.90	0.53
1:A:1286:MET:HB3	1:A:1462:MET:HE3	1.89	0.53
1:A:2018:GLU:O	1:A:2028:ARG:NH1	2.42	0.53
1:A:2620:GLN:O	1:A:2624:ARG:HG3	2.09	0.53
1:A:3187:ARG:HE	1:A:3271:GLU:HG3	1.74	0.53
1:A:3411:LEU:HD12	1:A:3412:LEU:N	2.23	0.53
1:A:3603:LEU:O	1:A:3607:GLU:HG3	2.08	0.53
1:A:4682:GLU:O	1:A:4727:LYS:NZ	2.40	0.53
2:E:94:HIS:CG	2:E:94:HIS:O	2.61	0.53
2:G:59:TRP:CZ3	1:C:1783:VAL:HG11	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:593:HIS:HA	1:B:1593:PRO:HG2	1.89	0.53
1:B:2578:MET:CE	1:B:2582:MET:HG3	2.37	0.53
1:B:2627:VAL:HG22	1:B:2678:LEU:HD11	1.89	0.53
1:B:3210:LEU:HB3	1:B:3304:CYS:O	2.08	0.53
1:B:3603:LEU:O	1:B:3607:GLU:HG3	2.08	0.53
1:B:4074:SER:O	1:B:4078:GLN:HG2	2.08	0.53
1:D:1293:LEU:HD21	1:D:1594:ARG:HD3	1.91	0.53
1:D:2229:VAL:HB	1:D:2267:MET:HE3	1.90	0.53
1:D:2621:HIS:HA	1:D:2624:ARG:HE	1.73	0.53
1:D:3528:THR:HG22	1:D:3563:VAL:HB	1.90	0.53
1:D:3801:GLY:HA2	1:D:3804:ILE:HG22	1.91	0.53
1:C:290:TYR:N	1:C:302:VAL:O	2.39	0.53
1:C:1025:ARG:HD3	1:C:1025:ARG:H	1.73	0.53
1:C:1653:LEU:HD22	1:C:1707:LEU:HD11	1.90	0.53
1:C:2310:CYS:SG	1:C:2312:MET:HG2	2.49	0.53
1:C:2393:ASP:OD1	1:C:2418:LEU:N	2.42	0.53
1:C:2637:ALA:O	1:C:2641:LEU:HG	2.09	0.53
1:C:2970:SER:HA	1:C:2973:PHE:HE2	1.71	0.53
1:A:615:ARG:HH12	1:A:1678:ASN:HA	1.73	0.53
1:A:2195:PRO:HB2	1:A:2199:ARG:HH21	1.73	0.53
1:A:2229:VAL:HB	1:A:2267:MET:HE3	1.90	0.53
1:A:3570:ARG:NH1	1:A:3570:ARG:HA	2.23	0.53
1:A:3801:GLY:HA2	1:A:3804:ILE:HG22	1.91	0.53
1:A:4879:MET:HB3	1:A:4880:MET:HE2	1.89	0.53
1:A:4903:ASP:O	1:A:4913:ARG:NH2	2.41	0.53
2:E:52:LYS:HA	2:E:52:LYS:HE2	1.90	0.53
1:B:28:VAL:N	1:B:31:GLU:O	2.31	0.53
1:B:73:LEU:O	1:B:106:ALA:N	2.41	0.53
1:B:2225:PHE:CB	1:B:2228:MET:HE2	2.36	0.53
1:B:2620:GLN:O	1:B:2624:ARG:HG3	2.09	0.53
1:B:3114:LYS:HE2	1:B:3116:SER:H	1.73	0.53
1:B:3537:LYS:HE3	1:B:3603:LEU:HD13	1.90	0.53
1:B:3801:GLY:HA2	1:B:3804:ILE:HG22	1.91	0.53
1:D:615:ARG:HH12	1:D:1678:ASN:HA	1.74	0.53
1:D:1018:ASN:OD1	1:D:1021:LEU:N	2.42	0.53
1:D:2182:ILE:HA	1:D:2185:ILE:HD12	1.89	0.53
1:D:2466:LEU:HA	1:D:2469:ILE:HD12	1.90	0.53
1:D:4903:ASP:O	1:D:4913:ARG:NH2	2.41	0.53
1:C:56:GLN:HA	1:C:309:THR:HG21	1.90	0.53
1:C:73:LEU:O	1:C:106:ALA:N	2.41	0.53
1:C:199:LEU:HD12	1:C:200:TRP:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:630:GLU:OE2	1:C:630:GLU:N	2.34	0.53
1:C:1478:ASP:OD1	1:C:1479:GLU:N	2.40	0.53
1:C:1935:VAL:O	1:C:1939:MET:HG3	2.08	0.53
1:C:2005:GLN:HA	1:C:2008:MET:SD	2.47	0.53
1:C:3247:ASP:HA	1:C:3250:MET:HG2	1.89	0.53
1:C:3801:GLY:HA2	1:C:3804:ILE:HG22	1.91	0.53
1:A:23:GLN:HB3	1:A:34:LYS:NZ	2.23	0.53
1:A:303:ASP:H	1:A:306:LYS:HE2	1.73	0.53
1:A:497:TYR:HA	1:A:502:HIS:HE1	1.73	0.53
1:A:630:GLU:OE2	1:A:630:GLU:N	2.34	0.53
1:A:1653:LEU:HD22	1:A:1707:LEU:HD11	1.90	0.53
1:A:1936:LYS:HB3	1:A:2105:TRP:CZ3	2.44	0.53
1:A:2243:SER:OG	1:A:2245:GLN:OE1	2.18	0.53
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.08	0.53
1:A:2447:LYS:O	1:A:2451:LEU:HD12	2.09	0.53
1:A:4732:PHE:HD2	1:A:4737:ILE:HD13	1.74	0.53
2:G:7:ILE:HG12	1:C:719:LEU:HD22	1.91	0.53
1:B:1543:GLU:HG2	1:B:1544:PRO:HD2	1.90	0.53
1:B:1731:LEU:HA	1:B:1772:ARG:HH12	1.73	0.53
1:B:2621:HIS:HA	1:B:2624:ARG:HE	1.73	0.53
1:B:2740:VAL:HG12	1:B:2818:ALA:HB1	1.90	0.53
1:B:2887:GLY:O	1:B:2891:LYS:HG3	2.09	0.53
1:B:3187:ARG:HE	1:B:3271:GLU:HG3	1.74	0.53
1:B:3411:LEU:HD12	1:B:3412:LEU:N	2.23	0.53
1:B:4732:PHE:HD2	1:B:4737:ILE:HD13	1.74	0.53
1:D:1465:ASP:OD2	1:D:1468:LYS:N	2.42	0.53
1:D:1579:MET:HE1	1:D:1595:LEU:HD13	1.90	0.53
1:D:1717:SER:O	1:D:1721:GLU:HG2	2.08	0.53
1:D:2204:HIS:O	1:D:2208:MET:HG2	2.08	0.53
1:D:2310:CYS:SG	1:D:2312:MET:HG2	2.49	0.53
1:D:2393:ASP:OD1	1:D:2418:LEU:N	2.42	0.53
1:D:3266:MET:HB2	1:D:3269:VAL:HB	1.91	0.53
1:D:3603:LEU:O	1:D:3607:GLU:HG3	2.08	0.53
1:D:3775:ALA:O	1:D:3778:MET:HG2	2.07	0.53
1:C:308:HIS:HD2	1:C:311:ALA:H	1.55	0.53
1:C:583:ILE:HA	1:C:586:ILE:HD12	1.90	0.53
1:C:1424:PRO:O	1:C:1428:LEU:HG	2.09	0.53
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.41	0.53
1:C:2340:PHE:CD2	1:C:2435:ARG:HD3	2.44	0.53
1:C:2627:VAL:HG22	1:C:2678:LEU:HD11	1.89	0.53
1:C:3222:LYS:HG3	1:C:3226:GLU:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3670:GLU:OE1	1:C:3731:LYS:NZ	2.29	0.53
1:C:3684:GLU:H	1:C:3684:GLU:CD	2.15	0.53
1:C:4879:MET:HB3	1:C:4880:MET:HE2	1.89	0.53
1:A:924:MET:C	1:A:924:MET:HE2	2.34	0.53
1:A:2107:GLN:HG3	1:A:3683:GLN:HE22	1.74	0.53
1:A:2281:ILE:HG13	1:A:2282:ASP:OD1	2.08	0.53
1:A:2340:PHE:CD2	1:A:2435:ARG:HD3	2.44	0.53
1:A:2637:ALA:O	1:A:2641:LEU:HG	2.09	0.53
1:A:2707:ALA:HB1	1:A:3009:TYR:HD2	1.72	0.53
1:A:3146:HIS:CD2	1:A:3147:ILE:HD12	2.37	0.53
2:E:23:VAL:HG23	2:E:47:LYS:HD2	1.89	0.53
2:F:82:TYR:CD2	2:F:87:HIS:HB2	2.43	0.53
1:B:303:ASP:H	1:B:306:LYS:HE2	1.73	0.53
1:B:308:HIS:HD2	1:B:311:ALA:H	1.55	0.53
1:B:2013:LYS:HB2	1:B:3661:TRP:CE2	2.43	0.53
1:B:3368:ARG:NH1	1:B:3401:LEU:HB2	2.24	0.53
1:B:3570:ARG:NH1	1:B:3570:ARG:HA	2.23	0.53
1:B:4024:VAL:HG11	1:B:4142:ASN:HB3	1.89	0.53
1:B:4223:ASN:HB3	1:B:4224:GLU:OE2	2.09	0.53
1:B:5006:GLN:H	1:B:5006:GLN:CD	2.12	0.53
1:D:866:HIS:O	1:D:870:ILE:HG12	2.08	0.53
1:D:1936:LYS:HB3	1:D:2105:TRP:CZ3	2.44	0.53
1:D:2013:LYS:HB2	1:D:3661:TRP:CE2	2.43	0.53
1:D:2620:GLN:O	1:D:2624:ARG:HG3	2.09	0.53
1:D:2960:LEU:HA	1:D:2963:LEU:HB2	1.90	0.53
1:D:3114:LYS:HE2	1:D:3116:SER:H	1.73	0.53
1:D:3236:VAL:HA	1:D:3239:MET:HE3	1.91	0.53
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	1.88	0.53
1:D:3672:ARG:HD3	1:D:3672:ARG:H	1.74	0.53
1:D:3943:ILE:O	1:D:3948:LYS:NZ	2.41	0.53
1:D:4240:ASP:OD1	1:D:4675:LYS:NZ	2.35	0.53
1:C:1293:LEU:HD21	1:C:1594:ARG:HD3	1.91	0.53
1:C:2003:GLN:NE2	1:C:2007:ASN:OD1	2.41	0.53
1:C:2195:PRO:HB2	1:C:2199:ARG:HH21	1.73	0.53
1:C:2301:TYR:HB3	1:C:2331:TYR:CZ	2.43	0.53
1:C:2447:LYS:O	1:C:2451:LEU:HD12	2.09	0.53
1:C:2887:GLY:O	1:C:2891:LYS:HG3	2.09	0.53
1:C:3266:MET:HB2	1:C:3269:VAL:HB	1.91	0.53
1:C:3570:ARG:HA	1:C:3570:ARG:NH1	2.23	0.53
1:C:3775:ALA:O	1:C:3778:MET:HG2	2.08	0.53
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2318:TYR:OH	1:A:2418:LEU:N	2.41	0.53
1:A:2621:HIS:HA	1:A:2624:ARG:HE	1.73	0.53
1:A:2960:LEU:HA	1:A:2963:LEU:HB2	1.90	0.53
1:A:4223:ASN:HB3	1:A:4224:GLU:OE2	2.09	0.53
2:E:17:LYS:HG2	2:E:20:GLN:HE22	1.73	0.53
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.42	0.53
1:B:2018:GLU:O	1:B:2028:ARG:NH1	2.42	0.53
1:B:2107:GLN:HG3	1:B:3683:GLN:HE22	1.74	0.53
1:B:2229:VAL:HB	1:B:2267:MET:HE3	1.90	0.53
1:B:4879:MET:HB3	1:B:4880:MET:HE2	1.89	0.53
1:D:3456:GLN:O	1:D:3460:VAL:HG13	2.08	0.53
1:D:4879:MET:HB3	1:D:4880:MET:HE2	1.89	0.53
1:C:991:ASN:O	1:C:995:VAL:HG23	2.09	0.53
1:C:2013:LYS:HB2	1:C:3661:TRP:CE2	2.43	0.53
1:C:2310:CYS:HB2	1:C:2312:MET:HE3	1.90	0.53
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.08	0.53
1:C:2620:GLN:O	1:C:2624:ARG:HG3	2.09	0.53
1:C:2654:TYR:HA	1:C:2661:TRP:HB2	1.90	0.53
1:C:3114:LYS:HE2	1:C:3116:SER:H	1.73	0.53
1:C:3537:LYS:HE3	1:C:3603:LEU:HD13	1.90	0.53
1:C:4223:ASN:HB3	1:C:4224:GLU:OE2	2.09	0.53
1:A:593:HIS:HA	1:A:1593:PRO:HG2	1.89	0.53
1:A:1543:GLU:HG2	1:A:1544:PRO:HD2	1.90	0.53
1:A:1690:ASP:OD2	1:A:1693:GLN:N	2.40	0.53
1:A:2281:ILE:HD12	1:A:2282:ASP:H	1.74	0.53
1:A:3844:LEU:O	1:A:3848:GLU:HG2	2.09	0.53
1:B:39:ALA:HB2	1:B:47:CYS:HB3	1.90	0.53
1:B:866:HIS:O	1:B:870:ILE:HG12	2.08	0.53
1:B:2233:CYS:O	1:B:2234:ARG:C	2.52	0.53
1:B:3505:VAL:HG13	1:B:3511:VAL:HG11	1.91	0.53
1:D:991:ASN:O	1:D:995:VAL:HG23	2.09	0.53
1:D:1543:GLU:HG2	1:D:1544:PRO:HD2	1.90	0.53
1:D:2301:TYR:HB3	1:D:2331:TYR:CZ	2.43	0.53
1:D:3222:LYS:HG3	1:D:3226:GLU:HB2	1.90	0.53
1:D:3596:VAL:O	1:D:3600:SER:OG	2.22	0.53
1:C:218:HIS:HD2	1:C:392:ARG:HH22	1.57	0.53
1:C:819:GLU:OE1	1:C:819:GLU:N	2.42	0.53
1:C:1954:ARG:NH2	1:C:2041:HIS:O	2.41	0.53
1:C:3368:ARG:NH1	1:C:3401:LEU:HB2	2.24	0.53
1:C:3603:LEU:O	1:C:3607:GLU:HG3	2.08	0.53
1:C:3916:ILE:HD12	1:C:3916:ILE:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:ILE:HG13	1:A:179:TYR:CE1	2.43	0.53
1:A:218:HIS:HD2	1:A:392:ARG:HH22	1.57	0.53
1:A:991:ASN:O	1:A:995:VAL:HG23	2.09	0.53
1:A:2230:THR:OG1	1:A:2268[B]:GLN:NE2	2.38	0.53
1:A:2310:CYS:SG	1:A:2312:MET:HG2	2.49	0.53
1:A:2887:GLY:O	1:A:2891:LYS:HG3	2.09	0.53
1:A:3563:VAL:HG21	1:A:3573:MET:CG	2.39	0.53
2:H:21:THR:HB	2:H:49:MET:HE2	1.91	0.53
1:B:991:ASN:O	1:B:995:VAL:HG23	2.09	0.53
1:B:1424:PRO:O	1:B:1428:LEU:HG	2.09	0.53
1:B:1855:GLY:O	1:B:1859:VAL:HG23	2.07	0.53
1:B:2310:CYS:SG	1:B:2312:MET:HG2	2.49	0.53
1:B:2452:ARG:HD2	1:B:2453:ILE:HD13	1.90	0.53
1:B:3384:LYS:HD2	1:B:3385:ALA:H	1.73	0.53
1:B:4007:SER:O	1:B:4010:ILE:HG12	2.09	0.53
1:D:303:ASP:H	1:D:306:LYS:HE2	1.73	0.53
1:D:2654:TYR:HA	1:D:2661:TRP:HB2	1.90	0.53
1:D:3085:PRO:O	1:D:3089:LYS:HG3	2.08	0.53
1:D:3210:LEU:HB3	1:D:3304:CYS:O	2.08	0.53
1:D:3247:ASP:HA	1:D:3250:MET:HG2	1.89	0.53
1:D:3916:ILE:H	1:D:3916:ILE:HD12	1.74	0.53
1:C:670:GLU:OE1	1:C:670:GLU:N	2.42	0.53
1:C:1153:ILE:HD13	1:C:1160:ILE:HG12	1.91	0.53
1:C:2960:LEU:HA	1:C:2963:LEU:HB2	1.90	0.53
1:C:3384:LYS:HD2	1:C:3385:ALA:H	1.73	0.53
1:C:3528:THR:HG22	1:C:3563:VAL:HB	1.90	0.53
1:C:3844:LEU:O	1:C:3848:GLU:HG2	2.09	0.53
1:A:73:LEU:O	1:A:106:ALA:N	2.41	0.53
1:A:262:LEU:HD21	1:A:280:LEU:HD13	1.91	0.53
1:A:1465:ASP:OD2	1:A:1468:LYS:N	2.42	0.53
1:A:1939:MET:SD	1:A:2105:TRP:HH2	2.32	0.53
1:A:2003:GLN:NE2	1:A:2007:ASN:OD1	2.41	0.53
1:A:2393:ASP:OD1	1:A:2418:LEU:N	2.42	0.53
1:A:2828:GLU:OE2	1:A:2935:TYR:OH	2.24	0.53
2:H:73:LYS:HE3	1:D:719:LEU:HD23	1.90	0.53
1:B:467:LYS:HZ1	1:B:471:LEU:HB2	1.72	0.53
1:B:1936:LYS:HB3	1:B:2105:TRP:CZ3	2.44	0.53
1:B:2310:CYS:HB2	1:B:2312:MET:HE3	1.90	0.53
1:B:2340:PHE:CD2	1:B:2435:ARG:HD3	2.44	0.53
1:B:2393:ASP:OD1	1:B:2418:LEU:N	2.42	0.53
1:B:2637:ALA:O	1:B:2641:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3222:LYS:HG3	1:B:3226:GLU:HB2	1.90	0.53
1:B:3563:VAL:HG21	1:B:3573:MET:CG	2.39	0.53
1:B:4090:LYS:HD2	1:B:4123:ILE:HD11	1.90	0.53
1:D:199:LEU:HD12	1:D:200:TRP:N	2.23	0.53
1:D:218:HIS:HD2	1:D:392:ARG:HH22	1.57	0.53
1:D:218:HIS:HB3	1:D:392:ARG:NH1	2.24	0.53
1:D:468:LEU:O	1:D:472:ARG:HG2	2.09	0.53
1:D:2224:ARG:HB2	1:D:2225:PHE:CE2	2.44	0.53
1:D:3228:ALA:HA	1:D:3232:LEU:HD23	1.91	0.53
1:D:3368:ARG:NH1	1:D:3401:LEU:HB2	2.24	0.53
1:D:3570:ARG:NH1	1:D:3570:ARG:HA	2.23	0.53
1:D:4732:PHE:HD2	1:D:4737:ILE:HD13	1.74	0.53
1:C:118:LEU:HA	1:C:137:LEU:HA	1.91	0.53
1:C:1272:LEU:HD22	1:C:1289:LEU:HD21	1.90	0.53
1:C:1465:ASP:OD2	1:C:1468:LYS:N	2.42	0.53
1:C:1731:LEU:HA	1:C:1772:ARG:HH12	1.73	0.53
1:C:1939:MET:SD	1:C:2105:TRP:HH2	2.32	0.53
1:C:3505:VAL:HG13	1:C:3511:VAL:HG11	1.91	0.53
1:C:3592:ILE:O	1:C:3595:ARG:HG3	2.09	0.53
1:A:484:LEU:HD13	1:A:529:LEU:HD22	1.91	0.52
1:A:3592:ILE:O	1:A:3595:ARG:HG3	2.09	0.52
1:A:4090:LYS:HD2	1:A:4123:ILE:HD11	1.90	0.52
2:G:88:PRO:HB2	1:C:623:GLU:OE2	2.08	0.52
1:B:670:GLU:OE1	1:B:670:GLU:N	2.42	0.52
1:B:686:TRP:HA	1:B:779:PRO:HA	1.91	0.52
1:B:924:MET:C	1:B:924:MET:HE2	2.34	0.52
1:B:1286:MET:HE2	1:B:1286:MET:HA	1.91	0.52
1:B:2195:PRO:HB2	1:B:2199:ARG:HH21	1.73	0.52
1:B:2281:ILE:HD12	1:B:2282:ASP:H	1.74	0.52
1:B:2520:HIS:HA	1:B:2523:ASP:OD2	2.09	0.52
1:D:118:LEU:HA	1:D:137:LEU:HA	1.91	0.52
1:D:1424:PRO:O	1:D:1428:LEU:HG	2.09	0.52
1:D:2044:ILE:HG23	1:D:3667:HIS:CD2	2.44	0.52
1:D:2340:PHE:CD2	1:D:2435:ARG:HD3	2.44	0.52
1:D:2447:LYS:O	1:D:2451:LEU:HD12	2.09	0.52
1:D:2637:ALA:O	1:D:2641:LEU:HG	2.08	0.52
1:D:2980:VAL:HB	1:D:2985:ARG:HA	1.91	0.52
1:D:3384:LYS:HD2	1:D:3385:ALA:H	1.73	0.52
1:D:3537:LYS:HE3	1:D:3603:LEU:HD13	1.90	0.52
1:D:4208:PRO:O	1:D:4212:GLU:HG2	2.09	0.52
1:C:39:ALA:HB2	1:C:47:CYS:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:262:LEU:HD21	1:C:280:LEU:HD13	1.91	0.52
1:C:2520:HIS:HA	1:C:2523:ASP:OD2	2.09	0.52
1:C:3187:ARG:HE	1:C:3271:GLU:HG3	1.74	0.52
1:C:3228:ALA:HA	1:C:3232:LEU:HD23	1.91	0.52
1:C:3672:ARG:H	1:C:3672:ARG:HD3	1.74	0.52
1:C:4732:PHE:HD2	1:C:4737:ILE:HD13	1.74	0.52
1:A:651:GLY:O	1:A:658:GLN:NE2	2.42	0.52
1:A:670:GLU:N	1:A:670:GLU:OE1	2.42	0.52
1:A:2198:MET:HB3	1:A:2203:MET:SD	2.50	0.52
1:A:2233:CYS:O	1:A:2234:ARG:C	2.52	0.52
1:A:2584[B]:HIS:HD2	1:A:2625:ARG:HD3	1.74	0.52
1:A:3266:MET:HB2	1:A:3269:VAL:HB	1.91	0.52
1:A:3384:LYS:HD2	1:A:3385:ALA:H	1.73	0.52
1:A:3528:THR:HG22	1:A:3563:VAL:HB	1.90	0.52
1:A:4712:PRO:HB2	1:A:4715:TYR:HB3	1.92	0.52
1:A:4824:ARG:HA	1:A:4827:LEU:HG	1.91	0.52
1:B:218:HIS:HD2	1:B:392:ARG:HH22	1.57	0.52
1:B:360:ALA:HA	1:B:377:ILE:HG12	1.91	0.52
1:B:413:GLN:HE22	1:B:437:PRO:HD3	1.74	0.52
1:B:1434:TYR:HE1	1:B:1517:GLY:HA3	1.75	0.52
1:B:1939:MET:SD	1:B:2105:TRP:HH2	2.32	0.52
1:B:2198:MET:HB3	1:B:2203:MET:SD	2.50	0.52
1:B:2204:HIS:O	1:B:2208:MET:HG2	2.08	0.52
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.08	0.52
1:B:2452:ARG:HH11	1:C:175:SER:HA	1.73	0.52
1:B:2583:LEU:HD11	1:B:2614:ILE:HD13	1.91	0.52
1:B:3247:ASP:HA	1:B:3250:MET:HG2	1.89	0.52
1:B:3592:ILE:O	1:B:3595:ARG:HG3	2.09	0.52
1:B:3916:ILE:H	1:B:3916:ILE:HD12	1.74	0.52
1:B:4583:SER:HB3	1:B:4631:PHE:CZ	2.45	0.52
1:B:4903:ASP:O	1:B:4913:ARG:NH2	2.41	0.52
1:D:73:LEU:O	1:D:106:ALA:N	2.41	0.52
1:D:414:PHE:CE1	1:D:418:LEU:HD21	2.45	0.52
1:D:2018:GLU:O	1:D:2028:ARG:NH1	2.42	0.52
1:D:2107:GLN:HG3	1:D:3683:GLN:HE22	1.74	0.52
1:D:3435:PHE:HD1	1:D:3517:MET:HB2	1.74	0.52
1:D:3844:LEU:O	1:D:3848:GLU:HG2	2.09	0.52
1:D:4968:PHE:O	1:D:4974:GLY:HA3	2.09	0.52
1:C:670:GLU:OE1	1:C:788:LYS:NZ	2.43	0.52
1:C:2018:GLU:O	1:C:2028:ARG:NH1	2.42	0.52
1:C:3384:LYS:HG3	1:C:3386:GLU:HG3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3756:LYS:HG2	1:C:3760:LYS:HE3	1.91	0.52
1:C:4007:SER:O	1:C:4010:ILE:HG12	2.09	0.52
1:C:4968:PHE:O	1:C:4974:GLY:HA3	2.09	0.52
1:A:218:HIS:HB3	1:A:392:ARG:NH1	2.24	0.52
1:A:360:ALA:HA	1:A:377:ILE:HG12	1.92	0.52
1:A:468:LEU:O	1:A:472:ARG:HG2	2.09	0.52
1:A:1424:PRO:O	1:A:1428:LEU:HG	2.09	0.52
1:A:1579:MET:HE1	1:A:1595:LEU:HD13	1.90	0.52
1:A:2902:HIS:HD2	1:A:2905:LEU:HG	1.74	0.52
1:A:2980:VAL:HB	1:A:2985:ARG:HA	1.92	0.52
1:A:3617:LYS:HD2	1:A:3618:ALA:N	2.23	0.52
1:A:4208:PRO:O	1:A:4212:GLU:HG2	2.09	0.52
1:A:4968:PHE:O	1:A:4974:GLY:HA3	2.09	0.52
1:B:170:ILE:HG13	1:B:179:TYR:CE1	2.43	0.52
1:B:218:HIS:HB3	1:B:392:ARG:NH1	2.24	0.52
1:B:651:GLY:O	1:B:658:GLN:NE2	2.42	0.52
1:B:1018:ASN:OD1	1:B:1021:LEU:N	2.42	0.52
1:B:2224:ARG:HB2	1:B:2225:PHE:CE2	2.44	0.52
1:B:2980:VAL:HB	1:B:2985:ARG:HA	1.91	0.52
1:B:3236:VAL:HA	1:B:3239:MET:HE3	1.91	0.52
1:B:3955:MET:HE2	1:B:4015:GLU:HG2	1.92	0.52
1:B:4954:MET:HE2	1:B:4954:MET:HA	1.92	0.52
1:B:4980:LEU:HB2	1:B:4981:GLU:OE2	2.09	0.52
1:D:262:LEU:HD21	1:D:280:LEU:HD13	1.91	0.52
1:D:360:ALA:HA	1:D:377:ILE:HG12	1.92	0.52
1:D:497:TYR:HA	1:D:502:HIS:HE1	1.73	0.52
1:D:580:GLU:HB2	1:D:620:LEU:HD13	1.91	0.52
1:D:970:LEU:H	1:D:970:LEU:HD12	1.75	0.52
1:D:1939:MET:SD	1:D:2105:TRP:HH2	2.32	0.52
1:D:2198:MET:HB3	1:D:2203:MET:SD	2.50	0.52
1:D:4902:GLU:OE2	1:D:4902:GLU:N	2.26	0.52
1:D:4980:LEU:HB2	1:D:4981:GLU:OE2	2.09	0.52
1:C:468:LEU:O	1:C:472:ARG:HG2	2.09	0.52
1:C:1936:LYS:HB3	1:C:2105:TRP:CZ3	2.44	0.52
1:C:3236:VAL:HA	1:C:3239:MET:HE3	1.91	0.52
1:C:3955:MET:HE2	1:C:4015:GLU:HG2	1.92	0.52
1:C:4208:PRO:O	1:C:4212:GLU:HG2	2.09	0.52
1:A:1206:GLN:HE22	1:A:1233:PRO:HG3	1.74	0.52
1:A:2914:LYS:HD2	1:A:2915:GLU:HG3	1.92	0.52
1:B:1465:ASP:OD2	1:B:1468:LYS:N	2.42	0.52
1:B:2858:GLN:HB2	1:B:2859:PRO:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3266:MET:HB2	1:B:3269:VAL:HB	1.91	0.52
1:B:3410:PRO:O	1:B:3414:ARG:HG2	2.10	0.52
1:B:4712:PRO:HB2	1:B:4715:TYR:HB3	1.92	0.52
1:D:460:GLN:O	1:D:464:LYS:HB2	2.10	0.52
1:D:483:MET:HA	1:D:486:LEU:HG	1.92	0.52
1:D:670:GLU:OE1	1:D:670:GLU:N	2.42	0.52
1:D:3181:THR:C	1:D:3185:LYS:HZ2	2.18	0.52
1:D:3187:ARG:HE	1:D:3271:GLU:HG3	1.73	0.52
1:D:3955:MET:HE2	1:D:4015:GLU:HG2	1.92	0.52
1:C:320:LYS:NZ	1:C:386:ASP:OD2	2.34	0.52
1:C:348:VAL:HG13	1:C:357:LEU:HB3	1.92	0.52
1:C:414:PHE:CE1	1:C:418:LEU:HD21	2.45	0.52
1:C:460:GLN:O	1:C:464:LYS:HB2	2.10	0.52
1:C:1018:ASN:OD1	1:C:1021:LEU:N	2.42	0.52
1:C:2107:GLN:NE2	1:C:3680:ALA:HA	2.25	0.52
1:C:3435:PHE:HD1	1:C:3517:MET:HB2	1.75	0.52
1:C:4712:PRO:HB2	1:C:4715:TYR:HB3	1.92	0.52
1:C:4826:ILE:O	1:C:4830:VAL:HG23	2.10	0.52
1:A:56:GLN:HA	1:A:309:THR:HG21	1.90	0.52
1:A:403:MET:HE1	1:A:478:PHE:HZ	1.74	0.52
1:A:483:MET:HA	1:A:486:LEU:HG	1.92	0.52
1:A:486:LEU:HD12	1:A:487:VAL:HG23	1.92	0.52
1:A:681:HIS:N	1:A:784:SER:OG	2.36	0.52
1:A:979:PRO:O	1:A:983:THR:HG23	2.10	0.52
1:A:2466:LEU:HA	1:A:2469:ILE:HD12	1.90	0.52
1:A:2527:LEU:HD13	1:A:2578:MET:HE2	1.92	0.52
1:A:3085:PRO:O	1:A:3089:LYS:HG3	2.08	0.52
1:A:3256:LEU:HB3	1:A:3266:MET:HE2	1.92	0.52
1:A:3368:ARG:NH1	1:A:3401:LEU:HB2	2.24	0.52
1:A:3505:VAL:HG13	1:A:3511:VAL:HG11	1.91	0.52
1:A:4240:ASP:OD1	1:A:4675:LYS:NZ	2.35	0.52
1:B:283:ARG:HG2	1:B:283:ARG:HH11	1.75	0.52
1:B:468:LEU:O	1:B:472:ARG:HG2	2.09	0.52
1:B:497:TYR:HA	1:B:502:HIS:HE1	1.73	0.52
1:B:4157:ASP:O	1:B:4161:ARG:HG2	2.10	0.52
1:D:39:ALA:HB2	1:D:47:CYS:HB3	1.90	0.52
1:D:348:VAL:HG13	1:D:357:LEU:HB3	1.92	0.52
1:D:924:MET:HE2	1:D:924:MET:C	2.34	0.52
1:D:979:PRO:O	1:D:983:THR:HG23	2.10	0.52
1:D:1206:GLN:HE22	1:D:1233:PRO:HG3	1.74	0.52
1:D:1272:LEU:HD22	1:D:1289:LEU:HD21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1653:LEU:HD22	1:D:1707:LEU:HD11	1.90	0.52
1:D:1974:ARG:HE	1:D:3642:TYR:HB2	1.74	0.52
1:D:2189:LYS:HA	1:D:2192:TYR:HD2	1.75	0.52
1:D:2740:VAL:HG12	1:D:2818:ALA:HB1	1.90	0.52
1:D:3505:VAL:HG13	1:D:3511:VAL:HG11	1.91	0.52
1:D:3563:VAL:HG21	1:D:3573:MET:CG	2.39	0.52
1:D:4007:SER:O	1:D:4010:ILE:HG12	2.09	0.52
1:C:170:ILE:HG13	1:C:179:TYR:CE1	2.44	0.52
1:C:283:ARG:HG2	1:C:283:ARG:HH11	1.75	0.52
1:C:692:TYR:O	1:C:827:LYS:NZ	2.41	0.52
1:C:871:ARG:HD2	1:C:872:GLU:N	2.25	0.52
1:C:908:VAL:HG13	1:C:909:ASN:H	1.75	0.52
1:C:1434:TYR:HE1	1:C:1517:GLY:HA3	1.75	0.52
1:C:1653:LEU:HA	1:C:1656:ARG:HD2	1.92	0.52
1:C:2107:GLN:HG3	1:C:3683:GLN:HE22	1.74	0.52
1:C:2229:VAL:HB	1:C:2267:MET:HE3	1.90	0.52
1:C:2583:LEU:HD11	1:C:2614:ILE:HD13	1.91	0.52
1:C:3933:PHE:HB3	1:C:3951:PHE:CZ	2.45	0.52
1:A:22:LEU:HD21	1:A:37:LEU:HB3	1.92	0.52
1:A:1018:ASN:OD1	1:A:1021:LEU:N	2.42	0.52
1:A:2189:LYS:HA	1:A:2192:TYR:HD2	1.75	0.52
1:A:2583:LEU:HD11	1:A:2614:ILE:HD13	1.91	0.52
1:A:2661:TRP:HB3	1:A:2664:PHE:HB2	1.92	0.52
1:A:2719:TYR:HD2	1:A:2953:LYS:HB3	1.74	0.52
1:A:3725:TYR:O	1:A:3729:MET:HG3	2.09	0.52
1:A:3955:MET:HE2	1:A:4015:GLU:HG2	1.92	0.52
1:A:4920:PHE:CD2	1:A:4925:ILE:HD11	2.45	0.52
1:B:22:LEU:HD21	1:B:37:LEU:HB3	1.92	0.52
1:B:348:VAL:HG13	1:B:357:LEU:HB3	1.92	0.52
1:B:580:GLU:HB2	1:B:620:LEU:HD13	1.91	0.52
1:B:1653:LEU:HD22	1:B:1707:LEU:HD11	1.90	0.52
1:B:2155:LEU:O	1:B:2159:LEU:HG	2.10	0.52
1:B:2584[B]:HIS:HD2	1:B:2625:ARG:HD3	1.74	0.52
1:B:2616:PRO:HG3	1:B:2650:ARG:HH12	1.73	0.52
1:B:3256:LEU:HB3	1:B:3266:MET:HE2	1.92	0.52
1:B:3364:ARG:O	1:B:3367:LYS:HG3	2.10	0.52
1:B:3753:PHE:CE2	1:B:4717:ASP:HA	2.44	0.52
1:D:403:MET:HE1	1:D:478:PHE:HZ	1.74	0.52
1:D:1260:MET:N	1:D:1260:MET:SD	2.83	0.52
1:D:2212:VAL:HG11	1:D:2256:TYR:CE2	2.45	0.52
1:D:2887:GLY:O	1:D:2891:LYS:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2902:HIS:HD2	1:D:2905:LEU:HG	1.74	0.52
1:D:3256:LEU:HB3	1:D:3266:MET:HE2	1.92	0.52
1:D:3825:GLU:OE1	1:D:3828:PHE:N	2.41	0.52
1:D:4223:ASN:HB3	1:D:4224:GLU:OE2	2.09	0.52
1:D:4712:PRO:HB2	1:D:4715:TYR:HB3	1.91	0.52
1:C:486:LEU:HD12	1:C:487:VAL:HG23	1.92	0.52
1:C:1954:ARG:O	1:C:1958:LEU:HD12	2.10	0.52
1:C:2005:GLN:HE22	1:C:3638:MET:HE2	1.74	0.52
1:C:2914:LYS:HD2	1:C:2915:GLU:HG3	1.92	0.52
1:C:2980:VAL:HB	1:C:2985:ARG:HA	1.92	0.52
1:C:3364:ARG:O	1:C:3367:LYS:HG3	2.10	0.52
1:C:4902:GLU:O	1:C:4913:ARG:NH1	2.39	0.52
1:C:4978:HIS:HA	1:C:4982:GLU:HG3	1.92	0.52
1:A:871:ARG:HD2	1:A:872:GLU:N	2.25	0.52
1:A:1075:PHE:HE2	1:A:1194:LEU:HB2	1.75	0.52
1:A:1260:MET:N	1:A:1260:MET:SD	2.83	0.52
1:A:1954:ARG:O	1:A:1958:LEU:HD12	2.10	0.52
1:A:2044:ILE:HG23	1:A:3667:HIS:CD2	2.44	0.52
1:A:2195:PRO:HA	1:A:2198:MET:SD	2.50	0.52
1:A:3410:PRO:O	1:A:3414:ARG:HG2	2.10	0.52
1:A:3933:PHE:HB3	1:A:3951:PHE:CZ	2.45	0.52
1:A:4007:SER:O	1:A:4010:ILE:HG12	2.09	0.52
1:A:4067:LYS:HA	1:A:4070:ASP:OD1	2.10	0.52
2:F:87:HIS:CD2	2:F:88:PRO:HD2	2.45	0.52
1:B:414:PHE:CE1	1:B:418:LEU:HD21	2.44	0.52
1:B:1171:SER:OG	1:B:1175:SER:O	2.24	0.52
1:B:1974:ARG:HE	1:B:3642:TYR:HB2	1.74	0.52
1:B:2107:GLN:NE2	1:B:3680:ALA:HA	2.25	0.52
1:B:2312:MET:HA	1:B:2315:ALA:HB3	1.92	0.52
1:B:3672:ARG:H	1:B:3672:ARG:HD3	1.74	0.52
1:B:3844:LEU:O	1:B:3848:GLU:HG2	2.09	0.52
1:D:601:ASP:OD1	1:D:1665:HIS:ND1	2.43	0.52
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.41	0.52
1:D:2719:TYR:HD2	1:D:2953:LYS:HB3	1.74	0.52
1:D:3187:ARG:NH2	1:D:3263:TYR:OH	2.38	0.52
1:D:3384:LYS:HG3	1:D:3386:GLU:HG3	1.92	0.52
1:D:3410:PRO:O	1:D:3414:ARG:HG2	2.10	0.52
1:D:3753:PHE:CE2	1:D:4717:ASP:HA	2.44	0.52
1:D:4157:ASP:O	1:D:4161:ARG:HG2	2.10	0.52
1:D:4583:SER:HB3	1:D:4631:PHE:CZ	2.45	0.52
1:C:303:ASP:H	1:C:306:LYS:HE2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:ALA:HA	1:C:377:ILE:HG12	1.92	0.52
1:C:403:MET:HE1	1:C:478:PHE:HZ	1.74	0.52
1:C:1171:SER:OG	1:C:1175:SER:O	2.24	0.52
1:C:2312:MET:HA	1:C:2315:ALA:HB3	1.92	0.52
1:C:2719:TYR:HD2	1:C:2953:LYS:HB3	1.74	0.52
1:C:3181:THR:C	1:C:3185:LYS:HZ2	2.18	0.52
1:C:3256:LEU:HB3	1:C:3266:MET:HE2	1.92	0.52
1:C:3725:TYR:O	1:C:3729:MET:HG3	2.09	0.52
1:A:601:ASP:OD1	1:A:1665:HIS:ND1	2.43	0.52
1:A:1226:PHE:O	1:A:1827:ARG:NH2	2.43	0.52
1:A:1475:THR:HA	1:A:1486:SER:HA	1.92	0.52
1:A:4583:SER:HB3	1:A:4631:PHE:CZ	2.45	0.52
1:A:4980:LEU:HB2	1:A:4981:GLU:OE2	2.09	0.52
1:B:1954:ARG:O	1:B:1958:LEU:HD12	2.10	0.52
1:B:2447:LYS:O	1:B:2451:LEU:HD12	2.09	0.52
1:B:2527:LEU:HD13	1:B:2578:MET:HE2	1.92	0.52
1:D:484:LEU:HD13	1:D:529:LEU:HD22	1.92	0.52
1:D:884:LEU:O	1:D:888:GLU:HG2	2.10	0.52
1:D:1291:LEU:HB3	1:D:1595:LEU:HD11	1.92	0.52
1:D:1690:ASP:OD2	1:D:1693:GLN:N	2.40	0.52
1:D:1854:PHE:CZ	1:D:1862:ILE:HD11	2.45	0.52
1:D:2520:HIS:HA	1:D:2523:ASP:OD2	2.09	0.52
1:D:2584[B]:HIS:HD2	1:D:2625:ARG:HD3	1.74	0.52
1:D:2752:ASP:HA	1:D:2755:ILE:HG13	1.91	0.52
1:D:3545:THR:OG1	1:D:3547:GLU:OE1	2.21	0.52
1:D:3725:TYR:O	1:D:3729:MET:HG3	2.09	0.52
1:C:884:LEU:O	1:C:888:GLU:HG2	2.10	0.52
1:C:971:ASP:OD2	1:C:974:HIS:ND1	2.33	0.52
1:C:979:PRO:O	1:C:983:THR:HG23	2.10	0.52
1:C:1260:MET:N	1:C:1260:MET:SD	2.83	0.52
1:C:2584[B]:HIS:HD2	1:C:2625:ARG:HD3	1.74	0.52
1:C:2616:PRO:HG3	1:C:2650:ARG:HH12	1.73	0.52
1:C:3529:ASP:HB3	1:C:3533:ILE:HD11	1.92	0.52
1:A:580:GLU:HB2	1:A:620:LEU:HD13	1.91	0.52
1:A:686:TRP:HA	1:A:779:PRO:HA	1.91	0.52
1:A:908:VAL:HG13	1:A:909:ASN:H	1.75	0.52
1:A:1291:LEU:HB3	1:A:1595:LEU:HD11	1.92	0.52
1:A:2155:LEU:O	1:A:2159:LEU:HG	2.10	0.52
1:A:2204:HIS:O	1:A:2208:MET:HG2	2.09	0.52
1:A:2224:ARG:HB2	1:A:2225:PHE:CE2	2.44	0.52
1:A:2858:GLN:HB2	1:A:2859:PRO:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2954:ARG:HH12	1:A:3031:ALA:HA	1.75	0.52
1:A:3108:GLU:HA	1:A:3111:ARG:HG2	1.92	0.52
1:A:3364:ARG:O	1:A:3367:LYS:HG3	2.10	0.52
1:A:3834:ALA:O	1:A:3838:THR:HG23	2.10	0.52
1:A:3916:ILE:H	1:A:3916:ILE:HD12	1.74	0.52
1:B:262:LEU:HD21	1:B:280:LEU:HD13	1.91	0.52
1:B:639:ASN:N	1:B:678:GLN:OE1	2.40	0.52
1:B:670:GLU:OE1	1:B:788:LYS:NZ	2.43	0.52
1:B:871:ARG:HD2	1:B:872:GLU:N	2.25	0.52
1:B:1226:PHE:O	1:B:1827:ARG:NH2	2.43	0.52
1:B:1260:MET:N	1:B:1260:MET:SD	2.83	0.52
1:B:1653:LEU:HA	1:B:1656:ARG:HD2	1.92	0.52
1:B:2005:GLN:HE22	1:B:3638:MET:HE2	1.74	0.52
1:B:2195:PRO:HA	1:B:2198:MET:SD	2.50	0.52
1:B:2212:VAL:HG11	1:B:2256:TYR:CE2	2.45	0.52
1:B:2244:ARG:HH21	1:B:2248:ARG:NH2	2.08	0.52
1:B:2622:LEU:O	1:B:2626:LEU:HD12	2.10	0.52
1:B:3053:ARG:HA	1:B:3056:LEU:HD13	1.92	0.52
1:B:3725:TYR:O	1:B:3729:MET:HG3	2.09	0.52
1:B:4208:PRO:O	1:B:4212:GLU:HG2	2.09	0.52
1:B:4246:GLN:O	1:B:4250:GLN:NE2	2.43	0.52
1:D:627:PRO:HA	1:D:629:ARG:HH21	1.75	0.52
1:D:908:VAL:HG13	1:D:909:ASN:H	1.75	0.52
1:D:2233:CYS:O	1:D:2234:ARG:C	2.52	0.52
1:D:3551:GLU:O	1:D:3555:ASN:ND2	2.43	0.52
1:D:4005:GLN:HA	1:D:4114:CYS:HA	1.92	0.52
1:D:4037:ASN:HD22	1:D:5035:GLN:HE22	1.58	0.52
1:C:22:LEU:HD21	1:C:37:LEU:HB3	1.92	0.52
1:C:413:GLN:HE22	1:C:437:PRO:HD3	1.74	0.52
1:C:1226:PHE:O	1:C:1827:ARG:NH2	2.43	0.52
1:C:1286:MET:HA	1:C:1286:MET:HE2	1.91	0.52
1:C:2330:ARG:HA	1:C:2333:ASP:OD2	2.10	0.52
1:C:3004:PRO:O	1:C:3008:GLN:HG3	2.10	0.52
1:C:4037:ASN:HD22	1:C:5035:GLN:HE22	1.58	0.52
1:C:4090:LYS:HD2	1:C:4123:ILE:HD11	1.90	0.52
1:C:4583:SER:HB3	1:C:4631:PHE:CZ	2.45	0.52
1:A:639:ASN:N	1:A:678:GLN:OE1	2.40	0.52
1:A:1153:ILE:HD13	1:A:1160:ILE:HG12	1.91	0.52
1:A:1854:PHE:CZ	1:A:1862:ILE:HD11	2.45	0.52
1:A:2008:MET:C	1:A:2008:MET:HE2	2.34	0.52
1:A:2358:ILE:HB	1:B:195:PHE:CG	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2560:PRO:O	1:A:2564:LYS:NZ	2.43	0.52
1:A:3775:ALA:HA	1:A:3778:MET:SD	2.50	0.52
2:E:49:MET:HE3	2:E:52:LYS:HB2	1.91	0.52
2:G:105:LYS:NZ	2:G:106:LEU:H	2.07	0.52
2:F:52:LYS:HE2	2:F:52:LYS:HA	1.91	0.52
1:B:403:MET:HE1	1:B:478:PHE:HZ	1.74	0.52
1:B:908:VAL:HG13	1:B:909:ASN:H	1.75	0.52
1:B:1293:LEU:HD21	1:B:1594:ARG:HD3	1.91	0.52
1:B:1805:GLU:OE1	1:B:1805:GLU:N	2.31	0.52
1:B:3435:PHE:HD1	1:B:3517:MET:HB2	1.75	0.52
1:B:3529:ASP:HB3	1:B:3533:ILE:HD11	1.92	0.52
1:B:4781:GLY:O	1:B:4785:THR:HG23	2.11	0.52
1:B:4910:GLU:HG2	1:B:4911:LEU:HD12	1.92	0.52
1:D:22:LEU:HD21	1:D:37:LEU:HB3	1.92	0.52
1:D:692:TYR:O	1:D:827:LYS:NZ	2.41	0.52
1:D:1422:ASP:N	1:D:1422:ASP:OD1	2.43	0.52
1:D:2195:PRO:HA	1:D:2198:MET:SD	2.50	0.52
1:D:2244:ARG:HH21	1:D:2248:ARG:NH2	2.08	0.52
1:D:2281:ILE:HD12	1:D:2282:ASP:H	1.74	0.52
1:D:2914:LYS:HD2	1:D:2915:GLU:HG3	1.92	0.52
1:D:3215:ALA:O	1:D:3220:THR:OG1	2.25	0.52
1:D:3250:MET:HE1	1:D:3277:LEU:HD22	1.91	0.52
1:D:3900:GLN:NE2	1:D:3968:TYR:O	2.43	0.52
1:D:3933:PHE:HB3	1:D:3951:PHE:CZ	2.45	0.52
1:D:4090:LYS:HD2	1:D:4123:ILE:HD11	1.90	0.52
1:D:4243:PHE:HA	1:D:4246:GLN:OE1	2.10	0.52
1:C:924:MET:C	1:C:924:MET:HE2	2.34	0.52
1:C:2195:PRO:HA	1:C:2198:MET:SD	2.50	0.52
1:C:2212:VAL:HG11	1:C:2256:TYR:CE2	2.45	0.52
1:C:2281:ILE:HD12	1:C:2282:ASP:H	1.74	0.52
1:C:2552:ARG:NH1	1:C:2599:GLN:OE1	2.43	0.52
1:C:2622:LEU:O	1:C:2626:LEU:HD12	2.10	0.52
1:C:4920:PHE:CD2	1:C:4925:ILE:HD11	2.45	0.52
1:A:659:TYR:O	1:A:662:TRP:NE1	2.43	0.51
1:A:1293:LEU:HD21	1:A:1594:ARG:HD3	1.91	0.51
1:A:1868:PRO:O	1:A:1872:THR:HG23	2.10	0.51
1:A:2520:HIS:HA	1:A:2523:ASP:OD2	2.09	0.51
1:A:2740:VAL:HG12	1:A:2818:ALA:HB1	1.90	0.51
2:E:40:ARG:NH2	2:E:102:GLU:HG2	2.25	0.51
2:H:52:LYS:HA	2:H:52:LYS:HE2	1.91	0.51
1:B:1153:ILE:HD13	1:B:1160:ILE:HG12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1422:ASP:OD1	1:B:1422:ASP:N	2.43	0.51
1:B:2719:TYR:HD2	1:B:2953:LYS:HB3	1.74	0.51
1:B:3835:LEU:HD22	1:B:3880:PHE:HZ	1.75	0.51
1:B:4869:GLU:OE1	1:B:4869:GLU:N	2.29	0.51
1:B:4983:HIS:O	3:B:5301:ATP:N6	2.43	0.51
1:D:278:GLN:HA	1:D:328:LYS:HZ3	1.74	0.51
1:D:670:GLU:OE1	1:D:788:LYS:NZ	2.43	0.51
1:D:1153:ILE:HD13	1:D:1160:ILE:HG12	1.91	0.51
1:D:1431:THR:HG22	1:D:1431:THR:O	2.11	0.51
1:D:2107:GLN:NE2	1:D:3683:GLN:OE1	2.30	0.51
1:D:2954:ARG:HH12	1:D:3031:ALA:HA	1.75	0.51
1:D:3364:ARG:O	1:D:3367:LYS:HG3	2.10	0.51
1:D:3756:LYS:HG2	1:D:3760:LYS:HE3	1.91	0.51
1:D:3834:ALA:O	1:D:3838:THR:HG23	2.10	0.51
1:D:4978:HIS:HA	1:D:4982:GLU:HG3	1.92	0.51
1:C:970:LEU:H	1:C:970:LEU:HD12	1.75	0.51
1:C:1475:THR:HA	1:C:1486:SER:HA	1.92	0.51
1:C:1868:PRO:O	1:C:1872:THR:HG23	2.10	0.51
1:C:2044:ILE:HG23	1:C:3667:HIS:CD2	2.44	0.51
1:C:2155:LEU:O	1:C:2159:LEU:HG	2.10	0.51
1:C:2224:ARG:HB2	1:C:2225:PHE:CE2	2.44	0.51
1:C:2412:GLU:HG2	1:C:2414:ASN:H	1.76	0.51
1:C:3215:ALA:O	1:C:3220:THR:OG1	2.25	0.51
1:A:283:ARG:HG2	1:A:283:ARG:HH11	1.75	0.51
1:A:414:PHE:CE1	1:A:418:LEU:HD21	2.44	0.51
1:A:1974:ARG:HE	1:A:3642:TYR:HB2	1.75	0.51
1:A:2005:GLN:HE22	1:A:3638:MET:HE2	1.74	0.51
1:A:2129:ASP:O	1:A:2133:GLU:HG3	2.10	0.51
1:A:3529:ASP:HB3	1:A:3533:ILE:HD11	1.92	0.51
1:A:3900:GLN:NE2	1:A:3968:TYR:O	2.43	0.51
1:A:4781:GLY:O	1:A:4785:THR:HG23	2.11	0.51
1:A:4910:GLU:HG2	1:A:4911:LEU:HD12	1.92	0.51
1:B:2008:MET:C	1:B:2008:MET:HE2	2.34	0.51
1:B:2044:ILE:HG23	1:B:3667:HIS:CD2	2.44	0.51
1:B:2412:GLU:HG2	1:B:2414:ASN:H	1.76	0.51
1:B:2914:LYS:HD2	1:B:2915:GLU:HG3	1.92	0.51
1:B:3553:LEU:HD13	1:B:3593:VAL:HB	1.92	0.51
1:B:4243:PHE:HA	1:B:4246:GLN:OE1	2.10	0.51
1:D:686:TRP:HA	1:D:779:PRO:HA	1.91	0.51
1:D:1220:GLN:CD	1:C:3522:LEU:HD22	2.34	0.51
1:D:1653:LEU:HA	1:D:1656:ARG:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3346:VAL:HG11	1:D:3411:LEU:HB2	1.93	0.51
1:D:3822:ASP:O	1:D:3824:LYS:NZ	2.30	0.51
1:D:4826:ILE:O	1:D:4830:VAL:HG23	2.10	0.51
1:C:874:LEU:HD22	1:C:1049:TYR:CD2	2.45	0.51
1:C:1974:ARG:HE	1:C:3642:TYR:HB2	1.75	0.51
1:C:2008:MET:HE2	1:C:2008:MET:C	2.35	0.51
1:C:2107:GLN:NE2	1:C:3683:GLN:OE1	2.31	0.51
1:C:2902:HIS:HD2	1:C:2905:LEU:HG	1.74	0.51
1:C:4824:ARG:HA	1:C:4827:LEU:HG	1.91	0.51
1:A:28:VAL:N	1:A:31:GLU:O	2.31	0.51
1:A:1431:THR:HG22	1:A:1431:THR:O	2.11	0.51
1:A:2212:VAL:HG11	1:A:2256:TYR:CE2	2.45	0.51
1:A:2259:GLU:HB2	1:A:2297:LYS:HZ3	1.74	0.51
1:A:2330:ARG:HA	1:A:2333:ASP:OD2	2.10	0.51
1:A:2886:TRP:CD1	1:A:2889:LYS:HZ2	2.28	0.51
1:A:3228:ALA:HA	1:A:3232:LEU:HD23	1.91	0.51
1:A:3522:LEU:HD22	1:B:1220:GLN:OE1	2.11	0.51
1:A:3553:LEU:HD13	1:A:3593:VAL:HB	1.92	0.51
1:A:3753:PHE:CE2	1:A:4717:ASP:HA	2.44	0.51
1:A:4248:ALA:O	1:A:4252:SER:HB3	2.10	0.51
1:A:4864:ASN:HB2	1:A:4874:MET:HE1	1.93	0.51
1:A:4954:MET:HA	1:A:4954:MET:HE2	1.92	0.51
1:A:4983:HIS:O	3:A:5301:ATP:N6	2.43	0.51
1:B:484:LEU:HD13	1:B:529:LEU:HD22	1.91	0.51
1:B:1868:PRO:O	1:B:1872:THR:HG23	2.10	0.51
1:B:1935:VAL:HA	1:B:1938:GLN:OE1	2.11	0.51
1:B:2754:PHE:CZ	1:B:2930:LEU:HG	2.46	0.51
1:B:2902:HIS:HD2	1:B:2905:LEU:HG	1.74	0.51
1:B:3228:ALA:HA	1:B:3232:LEU:HD23	1.91	0.51
1:B:3825:GLU:OE1	1:B:3828:PHE:N	2.41	0.51
1:B:3933:PHE:HB3	1:B:3951:PHE:CZ	2.45	0.51
1:B:4017:LEU:HD22	1:B:4139:ILE:HG21	1.93	0.51
1:B:4037:ASN:HD22	1:B:5035:GLN:HE22	1.58	0.51
1:B:4952:GLU:OE2	1:B:4956:THR:OG1	2.28	0.51
1:D:119:SER:O	1:D:136:GLY:N	2.33	0.51
1:D:639:ASN:N	1:D:678:GLN:OE1	2.40	0.51
1:D:651:GLY:O	1:D:658:GLN:NE2	2.42	0.51
1:D:1640:HIS:ND1	1:D:1646:ARG:O	2.44	0.51
1:D:1868:PRO:O	1:D:1872:THR:HG23	2.10	0.51
1:D:2155:LEU:O	1:D:2159:LEU:HG	2.10	0.51
1:D:2330:ARG:HA	1:D:2333:ASP:OD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2583:LEU:HD11	1:D:2614:ILE:HD13	1.91	0.51
1:D:2661:TRP:HB3	1:D:2664:PHE:HB2	1.92	0.51
1:D:4864:ASN:HB2	1:D:4874:MET:HE1	1.93	0.51
1:D:4983:HIS:O	3:D:5301:ATP:N6	2.43	0.51
1:C:437:PRO:HB2	1:C:440:ALA:HB3	1.92	0.51
1:C:627:PRO:HA	1:C:629:ARG:HH21	1.75	0.51
1:C:1854:PHE:CZ	1:C:1862:ILE:HD11	2.45	0.51
1:C:2449:GLU:HA	1:C:2452:ARG:HE	1.76	0.51
1:C:2661:TRP:HB3	1:C:2664:PHE:HB2	1.92	0.51
1:C:2752:ASP:HA	1:C:2755:ILE:HG13	1.92	0.51
1:C:3553:LEU:HD13	1:C:3593:VAL:HB	1.92	0.51
1:C:3753:PHE:CE2	1:C:4717:ASP:HA	2.44	0.51
1:A:348:VAL:HG13	1:A:357:LEU:HB3	1.92	0.51
1:A:1478:ASP:OD1	1:A:1479:GLU:N	2.40	0.51
1:A:2107:GLN:NE2	1:A:3680:ALA:HA	2.25	0.51
1:A:2349:ASN:O	1:A:2353:VAL:HG23	2.11	0.51
1:A:2530:MET:SD	1:A:2531:ARG:NH1	2.82	0.51
1:A:2559:LEU:HB3	1:A:2606:CYS:SG	2.50	0.51
1:A:2754:PHE:CZ	1:A:2930:LEU:HG	2.46	0.51
1:A:3346:VAL:HG11	1:A:3411:LEU:HB2	1.93	0.51
1:A:3672:ARG:HD3	1:A:3672:ARG:H	1.74	0.51
2:H:56:ILE:HD12	1:D:1783:VAL:O	2.11	0.51
1:B:218:HIS:HB3	1:B:392:ARG:HH12	1.74	0.51
1:B:884:LEU:O	1:B:888:GLU:HG2	2.10	0.51
1:B:1160:ILE:HB	1:B:1179:PHE:HD2	1.76	0.51
1:B:2129:ASP:O	1:B:2133:GLU:HG3	2.10	0.51
1:B:2291:GLN:HB3	1:B:2293:GLN:CD	2.36	0.51
1:B:2752:ASP:HA	1:B:2755:ILE:HG13	1.92	0.51
1:B:3756:LYS:HG2	1:B:3760:LYS:HE3	1.91	0.51
1:D:871:ARG:HD2	1:D:872:GLU:N	2.25	0.51
1:D:2005:GLN:HE22	1:D:3638:MET:HE2	1.74	0.51
1:D:2622:LEU:O	1:D:2626:LEU:HD12	2.10	0.51
1:D:3000:LYS:HD2	1:D:3000:LYS:N	2.26	0.51
1:D:3004:PRO:O	1:D:3008:GLN:HG3	2.11	0.51
1:D:3019:SER:HA	1:D:3025:LEU:H	1.76	0.51
1:D:3592:ILE:O	1:D:3595:ARG:HG3	2.09	0.51
1:D:4246:GLN:O	1:D:4250:GLN:NE2	2.43	0.51
1:D:4952:GLU:OE2	1:D:4956:THR:OG1	2.28	0.51
1:C:139:GLU:OE1	1:C:139:GLU:N	2.40	0.51
1:C:218:HIS:HB3	1:C:392:ARG:NH1	2.24	0.51
1:C:294:THR:N	1:C:298:GLY:O	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:686:TRP:HA	1:C:779:PRO:HA	1.91	0.51
1:C:1422:ASP:N	1:C:1422:ASP:OD1	2.43	0.51
1:C:2189:LYS:HA	1:C:2192:TYR:HD2	1.75	0.51
1:C:2233:CYS:O	1:C:2234:ARG:C	2.52	0.51
1:C:2530:MET:SD	1:C:2531:ARG:NH1	2.82	0.51
1:C:2638:LYS:O	1:C:2642:LYS:HG3	2.10	0.51
1:C:2824:GLU:N	1:C:2824:GLU:OE2	2.44	0.51
1:C:2964:LEU:HD12	1:C:3042:LEU:HD21	1.93	0.51
1:C:3604:TYR:HA	1:C:3607:GLU:CD	2.35	0.51
1:C:3834:ALA:O	1:C:3838:THR:HG23	2.10	0.51
1:C:4954:MET:HE2	1:C:4954:MET:HA	1.92	0.51
1:A:218:HIS:HB3	1:A:392:ARG:HH12	1.74	0.51
1:A:928:THR:O	1:A:932:LEU:HG	2.11	0.51
1:A:1286:MET:HE2	1:A:1286:MET:HA	1.91	0.51
1:A:2244:ARG:HH21	1:A:2248:ARG:NH2	2.08	0.51
1:A:2824:GLU:OE2	1:A:2824:GLU:N	2.44	0.51
1:A:3004:PRO:O	1:A:3008:GLN:HG3	2.10	0.51
1:A:3788:GLY:N	1:A:3831:SER:OG	2.39	0.51
1:A:3976:ASN:O	1:A:3980:LEU:HG	2.11	0.51
1:B:221:ARG:NH1	1:B:253:CYS:O	2.44	0.51
1:B:1431:THR:O	1:B:1431:THR:HG22	2.11	0.51
1:B:1712:TYR:CG	1:B:1840:PRO:HB3	2.46	0.51
1:B:2441:HIS:O	1:B:2442:LEU:HB3	2.11	0.51
1:B:2621:HIS:HA	1:B:2624:ARG:NE	2.26	0.51
1:B:3215:ALA:O	1:B:3220:THR:OG1	2.25	0.51
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.10	0.51
1:D:322:LYS:NZ	1:D:354:GLY:O	2.41	0.51
1:D:819:GLU:OE1	1:D:819:GLU:N	2.42	0.51
1:D:2107:GLN:NE2	1:D:3680:ALA:HA	2.25	0.51
1:D:2768:PHE:O	1:D:2772:GLN:HG3	2.11	0.51
1:D:3553:LEU:HD13	1:D:3593:VAL:HB	1.92	0.51
1:D:4824:ARG:HA	1:D:4827:LEU:HG	1.91	0.51
1:D:4910:GLU:HG2	1:D:4911:LEU:HD12	1.92	0.51
1:D:4920:PHE:CD2	1:D:4925:ILE:HD11	2.45	0.51
1:C:66:CYS:O	1:C:111:HIS:ND1	2.41	0.51
1:C:171:LEU:O	1:C:179:TYR:HA	2.11	0.51
1:C:341:TYR:CZ	1:C:392:ARG:HD3	2.46	0.51
1:C:483:MET:HA	1:C:486:LEU:HG	1.92	0.51
1:C:580:GLU:HB2	1:C:620:LEU:HD13	1.91	0.51
1:C:1075:PHE:HE2	1:C:1194:LEU:HB2	1.74	0.51
1:C:2768:PHE:O	1:C:2772:GLN:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3103:ILE:O	1:C:3107:VAL:HG23	2.11	0.51
1:C:3775:ALA:HA	1:C:3778:MET:SD	2.50	0.51
1:C:4781:GLY:O	1:C:4785:THR:HG23	2.11	0.51
1:A:66:CYS:O	1:A:111:HIS:ND1	2.41	0.51
1:A:118:LEU:HA	1:A:137:LEU:HA	1.91	0.51
1:A:321:GLU:OE2	1:A:321:GLU:N	2.44	0.51
1:A:950:LEU:HD22	1:A:970:LEU:HD23	1.93	0.51
1:A:970:LEU:HD12	1:A:970:LEU:H	1.75	0.51
1:A:2312:MET:HA	1:A:2315:ALA:HB3	1.92	0.51
1:A:2321:ILE:HB	1:A:2418:LEU:HD11	1.93	0.51
1:A:2622:LEU:O	1:A:2626:LEU:HD12	2.10	0.51
1:A:3000:LYS:HD2	1:A:3000:LYS:N	2.26	0.51
1:A:3435:PHE:HD1	1:A:3517:MET:HB2	1.75	0.51
1:A:4005:GLN:HA	1:A:4114:CYS:HA	1.92	0.51
1:A:4680:LYS:O	1:A:4685:GLY:N	2.31	0.51
1:A:4908:GLU:HG2	1:A:4909:TYR:HD1	1.76	0.51
2:E:2:VAL:HG23	2:E:80:TYR:HD2	1.75	0.51
1:B:118:LEU:HA	1:B:137:LEU:HA	1.91	0.51
1:B:171:LEU:O	1:B:179:TYR:HA	2.11	0.51
1:B:483:MET:HA	1:B:486:LEU:HG	1.92	0.51
1:B:928:THR:O	1:B:932:LEU:HG	2.11	0.51
1:B:2349:ASN:O	1:B:2353:VAL:HG23	2.11	0.51
1:B:2423:MET:HE3	1:B:2498:HIS:ND1	2.26	0.51
1:B:2552:ARG:NH1	1:B:2599:GLN:OE1	2.43	0.51
1:B:3181:THR:C	1:B:3185:LYS:HZ2	2.18	0.51
1:B:3551:GLU:O	1:B:3555:ASN:ND2	2.43	0.51
1:B:3775:ALA:HA	1:B:3778:MET:SD	2.50	0.51
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.46	0.51
1:B:4005:GLN:HA	1:B:4114:CYS:HA	1.92	0.51
1:B:4826:ILE:O	1:B:4830:VAL:HG23	2.10	0.51
1:B:4920:PHE:CD2	1:B:4925:ILE:HD11	2.45	0.51
1:B:4968:PHE:O	1:B:4974:GLY:HA3	2.09	0.51
1:D:171:LEU:O	1:D:179:TYR:HA	2.11	0.51
1:D:283:ARG:HG2	1:D:283:ARG:HH11	1.75	0.51
1:D:659:TYR:O	1:D:662:TRP:NE1	2.43	0.51
1:D:1935:VAL:HA	1:D:1938:GLN:OE1	2.11	0.51
1:D:2349:ASN:O	1:D:2353:VAL:HG23	2.11	0.51
1:D:2412:GLU:HG2	1:D:2414:ASN:H	1.76	0.51
1:D:2552:ARG:NH1	1:D:2599:GLN:OE1	2.43	0.51
1:D:3066:ASN:O	1:D:3070:ILE:HG13	2.11	0.51
1:D:3527:PRO:HB2	1:D:3573:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4017:LEU:HD22	1:D:4139:ILE:HG21	1.92	0.51
1:C:497:TYR:HA	1:C:502:HIS:HE1	1.73	0.51
1:C:659:TYR:O	1:C:662:TRP:NE1	2.43	0.51
1:C:928:THR:O	1:C:932:LEU:HG	2.11	0.51
1:C:1206:GLN:HE22	1:C:1233:PRO:HG3	1.74	0.51
1:C:1842:LEU:O	1:C:1846:SER:OG	2.29	0.51
1:C:2198:MET:HB3	1:C:2203:MET:SD	2.50	0.51
1:C:2560:PRO:O	1:C:2564:LYS:NZ	2.43	0.51
1:C:2954:ARG:HH12	1:C:3031:ALA:HA	1.75	0.51
1:C:3000:LYS:N	1:C:3000:LYS:HD2	2.26	0.51
1:C:3108:GLU:HA	1:C:3111:ARG:HG2	1.92	0.51
1:C:4067:LYS:HA	1:C:4070:ASP:OD1	2.10	0.51
1:C:4243:PHE:HA	1:C:4246:GLN:OE1	2.10	0.51
1:C:4980:LEU:HB2	1:C:4981:GLU:OE2	2.09	0.51
1:A:765:GLN:H	1:A:765:GLN:CD	2.19	0.51
1:A:3103:ILE:O	1:A:3107:VAL:HG23	2.11	0.51
1:A:3138:PRO:O	1:A:3141:THR:OG1	2.28	0.51
1:A:3384:LYS:HG3	1:A:3386:GLU:HG3	1.92	0.51
1:A:3551:GLU:O	1:A:3555:ASN:ND2	2.43	0.51
1:A:4157:ASP:O	1:A:4161:ARG:HG2	2.10	0.51
1:A:4243:PHE:HA	1:A:4246:GLN:OE1	2.10	0.51
1:A:4246:GLN:O	1:A:4250:GLN:NE2	2.43	0.51
1:A:4826:ILE:O	1:A:4830:VAL:HG23	2.10	0.51
2:G:94:HIS:O	2:G:94:HIS:CG	2.64	0.51
1:B:601:ASP:OD1	1:B:1665:HIS:ND1	2.43	0.51
1:B:1640:HIS:ND1	1:B:1646:ARG:O	2.44	0.51
1:B:1663:HIS:NE2	1:B:1711:TYR:OH	2.42	0.51
1:B:2330:ARG:HA	1:B:2333:ASP:OD2	2.10	0.51
1:B:2768:PHE:O	1:B:2772:GLN:HG3	2.11	0.51
1:B:3604:TYR:HA	1:B:3607:GLU:CD	2.35	0.51
1:B:3780:LEU:HD11	1:B:3816:MET:HB3	1.93	0.51
1:B:4248:ALA:O	1:B:4252:SER:HB3	2.10	0.51
1:D:341:TYR:CZ	1:D:392:ARG:HD3	2.46	0.51
1:D:1226:PHE:O	1:D:1827:ARG:NH2	2.43	0.51
1:D:1733:GLU:OE1	1:D:1733:GLU:N	2.27	0.51
1:D:2008:MET:C	1:D:2008:MET:HE2	2.35	0.51
1:D:2090:LYS:NZ	1:D:2092:GLN:HG2	2.26	0.51
1:D:2441:HIS:O	1:D:2442:LEU:HB3	2.11	0.51
1:D:2530:MET:SD	1:D:2531:ARG:NH1	2.82	0.51
1:D:2824:GLU:OE2	1:D:2824:GLU:N	2.44	0.51
1:D:2886:TRP:CD1	1:D:2889:LYS:HZ1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2964:LEU:HD12	1:D:3042:LEU:HD21	1.93	0.51
1:D:3775:ALA:HA	1:D:3778:MET:SD	2.50	0.51
1:D:4067:LYS:HA	1:D:4070:ASP:OD1	2.10	0.51
1:D:4954:MET:HE2	1:D:4954:MET:HA	1.92	0.51
1:C:322:LYS:NZ	1:C:354:GLY:O	2.41	0.51
1:C:1543:GLU:O	1:C:1546:THR:OG1	2.19	0.51
1:C:2244:ARG:HH21	1:C:2248:ARG:NH2	2.08	0.51
1:C:2376:LEU:O	1:C:2380:ILE:HG12	2.11	0.51
1:C:3250:MET:HE1	1:C:3277:LEU:HD22	1.91	0.51
1:C:4733:GLY:O	1:C:4737:ILE:HG12	2.11	0.51
1:C:4983:HIS:O	3:C:5301:ATP:N6	2.43	0.51
1:A:365:LYS:NZ	1:A:369:LEU:HG	2.26	0.51
1:A:437:PRO:HB2	1:A:440:ALA:HB3	1.92	0.51
1:A:1434:TYR:HE1	1:A:1517:GLY:HA3	1.75	0.51
1:A:1987:SER:O	1:A:1991:THR:OG1	2.20	0.51
1:A:2412:GLU:HG2	1:A:2414:ASN:H	1.76	0.51
1:A:2441:HIS:O	1:A:2442:LEU:HB3	2.11	0.51
1:A:2449:GLU:HA	1:A:2452:ARG:HE	1.76	0.51
1:A:3236:VAL:HA	1:A:3239:MET:HE3	1.91	0.51
1:A:3250:MET:HE1	1:A:3277:LEU:HD22	1.91	0.51
1:A:3527:PRO:HB2	1:A:3573:MET:SD	2.51	0.51
1:A:3604:TYR:HA	1:A:3607:GLU:CD	2.35	0.51
1:A:3940:LYS:O	1:A:4002:LYS:NZ	2.44	0.51
1:A:3994:HIS:HD2	1:A:3998:HIS:CE1	2.29	0.51
1:B:659:TYR:O	1:B:662:TRP:NE1	2.43	0.51
1:B:874:LEU:HD22	1:B:1049:TYR:CD2	2.45	0.51
1:B:1022:VAL:HG22	1:B:1023:PRO:HD2	1.93	0.51
1:B:1206:GLN:HE22	1:B:1233:PRO:HG3	1.74	0.51
1:B:2189:LYS:HA	1:B:2192:TYR:HD2	1.75	0.51
1:B:2463:LEU:HA	1:B:2466:LEU:HD12	1.93	0.51
1:B:2559:LEU:HB3	1:B:2606:CYS:SG	2.50	0.51
1:B:2824:GLU:N	1:B:2824:GLU:OE2	2.44	0.51
1:B:3940:LYS:O	1:B:4002:LYS:NZ	2.44	0.51
1:B:4582:VAL:HG22	1:C:4877:ASP:HA	1.93	0.51
1:D:218:HIS:HB3	1:D:392:ARG:HH12	1.74	0.51
1:D:221:ARG:NH1	1:D:253:CYS:O	2.44	0.51
1:D:413:GLN:HE22	1:D:437:PRO:HD3	1.75	0.51
1:D:615:ARG:NH1	1:D:1678:ASN:HA	2.26	0.51
1:D:772:ASN:ND2	1:D:1470:ARG:HD2	2.26	0.51
1:D:2129:ASP:O	1:D:2133:GLU:HG3	2.10	0.51
1:D:2527:LEU:HD13	1:D:2578:MET:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3994:HIS:HD2	1:D:3998:HIS:CE1	2.29	0.51
1:D:4781:GLY:O	1:D:4785:THR:HG23	2.11	0.51
1:C:1640:HIS:ND1	1:C:1646:ARG:O	2.44	0.51
1:C:2291:GLN:HB3	1:C:2293:GLN:CD	2.36	0.51
1:C:2349:ASN:O	1:C:2353:VAL:HG23	2.11	0.51
1:C:3551:GLU:O	1:C:3555:ASN:ND2	2.43	0.51
1:C:3563:VAL:HG21	1:C:3573:MET:CG	2.39	0.51
1:C:3965:LEU:HA	1:C:3968:TYR:CD2	2.46	0.51
1:C:4952:GLU:OE2	1:C:4956:THR:OG1	2.28	0.51
1:A:221:ARG:NH1	1:A:253:CYS:O	2.44	0.51
1:A:451:TYR:CE2	1:A:474:ARG:HD3	2.46	0.51
1:A:460:GLN:O	1:A:464:LYS:HB2	2.10	0.51
1:A:627:PRO:HA	1:A:629:ARG:HH21	1.75	0.51
1:A:772:ASN:ND2	1:A:1470:ARG:HD2	2.26	0.51
1:A:1160:ILE:HB	1:A:1179:PHE:HD2	1.76	0.51
1:A:1166:GLY:HA2	1:A:1217:CYS:SG	2.51	0.51
1:A:1252:HIS:CE1	1:A:1254:HIS:HB2	2.46	0.51
1:A:1653:LEU:HA	1:A:1656:ARG:HD2	1.92	0.51
1:A:1663:HIS:NE2	1:A:1711:TYR:OH	2.42	0.51
1:A:1935:VAL:HA	1:A:1938:GLN:OE1	2.11	0.51
1:A:2332:LEU:O	1:A:2432:LEU:HD21	2.11	0.51
1:A:2552:ARG:NH1	1:A:2599:GLN:OE1	2.43	0.51
1:A:4037:ASN:HD22	1:A:5035:GLN:HE22	1.58	0.51
1:B:984:LEU:HA	1:B:987:ARG:NE	2.26	0.51
1:B:1252:HIS:CE1	1:B:1254:HIS:HB2	2.46	0.51
1:B:1475:THR:HA	1:B:1486:SER:HA	1.92	0.51
1:B:3900:GLN:NE2	1:B:3968:TYR:O	2.43	0.51
1:B:4240:ASP:OD1	1:B:4675:LYS:NZ	2.35	0.51
1:B:4908:GLU:HG2	1:B:4909:TYR:HD1	1.76	0.51
1:D:1075:PHE:HE2	1:D:1194:LEU:HB2	1.75	0.51
1:D:1434:TYR:HE1	1:D:1517:GLY:HA3	1.75	0.51
1:D:2376:LEU:O	1:D:2380:ILE:HG12	2.11	0.51
1:D:2449:GLU:HA	1:D:2452:ARG:HE	1.76	0.51
1:D:2588:ARG:NH2	1:D:2591:ARG:HG3	2.26	0.51
1:D:3053:ARG:HA	1:D:3056:LEU:HD13	1.92	0.51
1:D:3432:GLU:O	1:D:3436:ARG:HG3	2.11	0.51
1:D:3529:ASP:HB3	1:D:3533:ILE:HD11	1.92	0.51
1:D:3976:ASN:O	1:D:3980:LEU:HG	2.11	0.51
1:D:4908:GLU:HG2	1:D:4909:TYR:HD1	1.76	0.51
1:C:484:LEU:HD13	1:C:529:LEU:HD22	1.91	0.51
1:C:651:GLY:O	1:C:658:GLN:NE2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2463:LEU:HA	1:C:2466:LEU:HD12	1.93	0.51
1:C:3560:GLN:H	1:C:3560:GLN:CD	2.18	0.51
1:C:3900:GLN:NE2	1:C:3968:TYR:O	2.43	0.51
1:C:4910:GLU:HG2	1:C:4911:LEU:HD12	1.92	0.51
1:A:615:ARG:NH1	1:A:1678:ASN:HA	2.26	0.51
1:A:874:LEU:HD22	1:A:1049:TYR:CD2	2.45	0.51
1:A:879:HIS:NE2	1:A:918:ARG:HA	2.26	0.51
1:A:884:LEU:O	1:A:888:GLU:HG2	2.10	0.51
1:A:984:LEU:HA	1:A:987:ARG:NE	2.26	0.51
1:A:2107:GLN:NE2	1:A:3683:GLN:OE1	2.31	0.51
1:A:2638:LYS:O	1:A:2642:LYS:HG3	2.11	0.51
1:A:3965:LEU:HA	1:A:3968:TYR:CD2	2.46	0.51
1:A:3986:TRP:CD1	1:A:3986:TRP:H	2.29	0.51
2:F:40:ARG:HD2	2:F:40:ARG:N	2.26	0.51
1:B:365:LYS:NZ	1:B:369:LEU:HG	2.26	0.51
1:B:404:ILE:HG23	1:B:483:MET:HE2	1.93	0.51
1:B:437:PRO:HB2	1:B:440:ALA:HB3	1.92	0.51
1:B:460:GLN:O	1:B:464:LYS:HB2	2.10	0.51
1:B:1075:PHE:HE2	1:B:1194:LEU:HB2	1.75	0.51
1:B:1106:ARG:HH21	1:B:1120:LEU:HB3	1.76	0.51
1:B:1253:PRO:O	1:B:1275:ARG:NH1	2.34	0.51
1:B:2321:ILE:HB	1:B:2418:LEU:HD11	1.93	0.51
1:B:2604:GLU:O	1:B:2608:MET:HG2	2.11	0.51
1:B:2661:TRP:HB3	1:B:2664:PHE:HB2	1.92	0.51
1:B:3103:ILE:O	1:B:3107:VAL:HG23	2.11	0.51
1:B:4978:HIS:HA	1:B:4982:GLU:HG3	1.92	0.51
1:D:365:LYS:NZ	1:D:369:LEU:HG	2.26	0.51
1:D:1712:TYR:CG	1:D:1840:PRO:HB3	2.46	0.51
1:D:2560:PRO:O	1:D:2564:LYS:NZ	2.43	0.51
1:C:601:ASP:OD1	1:C:1665:HIS:ND1	2.43	0.51
1:C:772:ASN:ND2	1:C:1470:ARG:HD2	2.26	0.51
1:C:1252:HIS:CE1	1:C:1254:HIS:HB2	2.46	0.51
1:C:3019:SER:HA	1:C:3025:LEU:H	1.76	0.51
1:C:3053:ARG:HA	1:C:3056:LEU:HD13	1.92	0.51
1:C:3346:VAL:HG11	1:C:3411:LEU:HB2	1.93	0.51
1:C:3410:PRO:O	1:C:3414:ARG:HG2	2.10	0.51
1:C:3835:LEU:HD22	1:C:3880:PHE:HZ	1.75	0.51
1:C:4246:GLN:O	1:C:4250:GLN:NE2	2.43	0.51
1:C:4735:GLU:OE1	1:C:4735:GLU:N	2.39	0.51
1:A:670:GLU:OE1	1:A:788:LYS:NZ	2.43	0.50
1:A:1022:VAL:HG22	1:A:1023:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1854:PHE:CE1	1:A:1858:ASP:HB3	2.46	0.50
1:A:2004:GLU:N	1:A:2004:GLU:OE1	2.41	0.50
1:A:2090:LYS:NZ	1:A:2092:GLN:HG2	2.26	0.50
1:A:2752:ASP:HA	1:A:2755:ILE:HG13	1.92	0.50
1:A:3019:SER:HA	1:A:3025:LEU:H	1.76	0.50
1:A:3181:THR:C	1:A:3185:LYS:HZ2	2.18	0.50
1:A:3432:GLU:O	1:A:3436:ARG:HG3	2.11	0.50
1:A:3756:LYS:HG2	1:A:3760:LYS:HE3	1.91	0.50
1:B:692:TYR:O	1:B:827:LYS:NZ	2.41	0.50
1:B:1131:ARG:NH1	1:B:1138:PRO:O	2.44	0.50
1:B:1854:PHE:CE1	1:B:1858:ASP:HB3	2.46	0.50
1:B:2437:ALA:HB2	1:B:2509:VAL:HG22	1.93	0.50
1:B:3004:PRO:O	1:B:3008:GLN:HG3	2.10	0.50
1:B:3547:GLU:H	1:B:3547:GLU:CD	2.19	0.50
1:B:3943:ILE:O	1:B:3948:LYS:NZ	2.41	0.50
1:B:3994:HIS:HD2	1:B:3998:HIS:CE1	2.29	0.50
1:B:4902:GLU:O	1:B:4913:ARG:NH1	2.39	0.50
1:D:1160:ILE:HB	1:D:1179:PHE:HD2	1.75	0.50
1:D:1166:GLY:HA2	1:D:1217:CYS:SG	2.51	0.50
1:D:1252:HIS:CE1	1:D:1254:HIS:HB2	2.46	0.50
1:D:1954:ARG:O	1:D:1958:LEU:HD12	2.10	0.50
1:D:2332:LEU:O	1:D:2432:LEU:HD21	2.11	0.50
1:D:2559:LEU:HB3	1:D:2606:CYS:SG	2.50	0.50
1:D:3103:ILE:O	1:D:3107:VAL:HG23	2.11	0.50
1:D:3108:GLU:HA	1:D:3111:ARG:HG2	1.92	0.50
1:D:3458:PHE:HA	1:D:3461:GLN:NE2	2.27	0.50
1:D:3604:TYR:HA	1:D:3607:GLU:CD	2.35	0.50
1:D:4879:MET:CG	1:C:4578:LEU:HD12	2.38	0.50
1:C:218:HIS:HB3	1:C:392:ARG:HH12	1.74	0.50
1:C:2527:LEU:HD13	1:C:2578:MET:HE2	1.92	0.50
1:C:2604:GLU:O	1:C:2608:MET:HG2	2.12	0.50
1:C:3816:MET:N	1:C:3816:MET:SD	2.84	0.50
1:C:4908:GLU:HG2	1:C:4909:TYR:HD1	1.76	0.50
1:A:145:ALA:N	1:A:175:SER:OG	2.44	0.50
1:A:341:TYR:CZ	1:A:392:ARG:HD3	2.46	0.50
1:A:413:GLN:HE22	1:A:437:PRO:HD3	1.75	0.50
1:A:1640:HIS:ND1	1:A:1646:ARG:O	2.44	0.50
1:A:2291:GLN:HB3	1:A:2293:GLN:CD	2.36	0.50
1:A:2768:PHE:O	1:A:2772:GLN:HG3	2.11	0.50
1:A:3547:GLU:H	1:A:3547:GLU:CD	2.19	0.50
1:A:4952:GLU:OE2	1:A:4956:THR:OG1	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:6:THR:HB	2:E:70:GLN:HE21	1.76	0.50
2:H:25:HIS:CE1	2:H:40:ARG:HA	2.47	0.50
1:B:341:TYR:CZ	1:B:392:ARG:HD3	2.46	0.50
1:B:950:LEU:HD22	1:B:970:LEU:HD23	1.93	0.50
1:B:970:LEU:H	1:B:970:LEU:HD12	1.75	0.50
1:B:979:PRO:O	1:B:983:THR:HG23	2.10	0.50
1:B:1238:PHE:CD1	1:B:1608:MET:HG3	2.47	0.50
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.11	0.50
1:B:2822:THR:OG1	1:B:2824:GLU:OE2	2.21	0.50
1:B:3236:VAL:HA	1:B:3239:MET:HG3	1.94	0.50
1:B:3346:VAL:HG11	1:B:3411:LEU:HB2	1.93	0.50
1:B:4864:ASN:HB2	1:B:4874:MET:HE1	1.93	0.50
1:B:4980:LEU:HA	1:B:4984:ASN:HD22	1.76	0.50
1:D:246:TYR:CD1	1:D:373:LYS:HD3	2.47	0.50
1:D:451:TYR:CE2	1:D:474:ARG:HD3	2.46	0.50
1:D:486:LEU:HD12	1:D:487:VAL:HG23	1.92	0.50
1:D:575:LEU:HD11	1:D:606:LEU:O	2.12	0.50
1:D:874:LEU:HD22	1:D:1049:TYR:CD2	2.45	0.50
1:D:928:THR:O	1:D:932:LEU:HG	2.11	0.50
1:D:990:GLU:OE1	1:D:1024:TYR:HB3	2.12	0.50
1:D:1286:MET:HE2	1:D:1286:MET:HA	1.91	0.50
1:D:1454:THR:OG1	1:D:1491:ASN:O	2.27	0.50
1:D:2858:GLN:HB2	1:D:2859:PRO:HD3	1.92	0.50
1:D:4735:GLU:OE1	1:D:4735:GLU:N	2.39	0.50
1:C:404:ILE:HG23	1:C:483:MET:HE2	1.93	0.50
1:C:1712:TYR:CG	1:C:1840:PRO:HB3	2.46	0.50
1:C:1943:LEU:HD13	1:C:2098:VAL:HG22	1.93	0.50
1:C:1951:LEU:HA	1:C:1954:ARG:HG3	1.93	0.50
1:C:2129:ASP:O	1:C:2133:GLU:HG3	2.10	0.50
1:C:2225:PHE:HB2	1:C:2228:MET:HB2	1.93	0.50
1:C:2480:GLY:N	1:C:2484:ALA:O	2.45	0.50
1:C:3547:GLU:H	1:C:3547:GLU:CD	2.19	0.50
1:C:4248:ALA:O	1:C:4252:SER:HB3	2.10	0.50
1:C:4980:LEU:HA	1:C:4984:ASN:HD22	1.77	0.50
1:A:394:GLN:OE1	1:A:397:GLU:N	2.32	0.50
1:A:688:LEU:HD12	1:A:689:THR:N	2.27	0.50
1:A:2621:HIS:HA	1:A:2624:ARG:NE	2.26	0.50
1:A:3053:ARG:HA	1:A:3056:LEU:HD13	1.92	0.50
1:A:3835:LEU:HD22	1:A:3880:PHE:HZ	1.75	0.50
1:A:4733:GLY:O	1:A:4737:ILE:HG12	2.11	0.50
2:H:23:VAL:HG23	2:H:47:LYS:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:17:LYS:HD2	2:F:20:GLN:HB2	1.93	0.50
1:B:172:VAL:HG13	1:B:179:TYR:CE1	2.46	0.50
1:B:394:GLN:NE2	1:B:396:GLU:H	2.10	0.50
1:B:615:ARG:NH1	1:B:1678:ASN:HA	2.26	0.50
1:B:1243:PRO:HB3	1:B:1602:PRO:HA	1.94	0.50
1:B:1943:LEU:HD13	1:B:2098:VAL:HG22	1.94	0.50
1:B:2090:LYS:NZ	1:B:2092:GLN:HG2	2.26	0.50
1:B:2555:CYS:HA	1:B:2559:LEU:HG	1.93	0.50
1:B:2588:ARG:NH2	1:B:2591:ARG:HG3	2.26	0.50
1:B:3132:THR:HA	1:B:3136:LEU:HB2	1.94	0.50
1:B:3766:GLN:HB3	1:B:3769:ARG:HH12	1.77	0.50
1:B:3816:MET:N	1:B:3816:MET:SD	2.84	0.50
1:B:4716:TRP:CZ3	1:B:4717:ASP:HB2	2.46	0.50
1:B:4743:MET:HE1	1:B:4745:LEU:HD23	1.94	0.50
1:B:4824:ARG:HA	1:B:4827:LEU:HG	1.91	0.50
1:D:145:ALA:N	1:D:175:SER:OG	2.44	0.50
1:D:681:HIS:N	1:D:784:SER:OG	2.37	0.50
1:D:1108:GLU:OE2	1:D:1108:GLU:N	2.36	0.50
1:D:1708:ARG:NH1	1:D:1837:GLN:HA	2.27	0.50
1:D:2291:GLN:HB3	1:D:2293:GLN:CD	2.36	0.50
1:D:2312:MET:HA	1:D:2315:ALA:HB3	1.92	0.50
1:D:2559:LEU:HA	1:D:2562:ILE:HD12	1.93	0.50
1:D:2604:GLU:O	1:D:2608:MET:HG2	2.11	0.50
1:D:3835:LEU:HD22	1:D:3880:PHE:HZ	1.75	0.50
1:D:3897:ASN:OD1	1:D:3898:ASP:N	2.45	0.50
1:D:4161:ARG:HH11	1:D:4161:ARG:HG3	1.77	0.50
1:D:4248:ALA:O	1:D:4252:SER:HB3	2.10	0.50
1:D:4682:GLU:O	1:D:4727:LYS:NZ	2.40	0.50
1:C:221:ARG:NH1	1:C:253:CYS:O	2.44	0.50
1:C:575:LEU:HD11	1:C:606:LEU:O	2.12	0.50
1:C:1291:LEU:HB3	1:C:1595:LEU:HD11	1.92	0.50
1:C:1935:VAL:HA	1:C:1938:GLN:OE1	2.11	0.50
1:C:2441:HIS:O	1:C:2442:LEU:HB3	2.11	0.50
1:C:2559:LEU:HB3	1:C:2606:CYS:SG	2.50	0.50
1:C:4157:ASP:O	1:C:4161:ARG:HG2	2.10	0.50
1:C:4716:TRP:CZ3	1:C:4717:ASP:HB2	2.47	0.50
1:A:257:ARG:O	1:A:284:HIS:NE2	2.35	0.50
1:A:575:LEU:HD11	1:A:606:LEU:O	2.12	0.50
1:A:971:ASP:OD2	1:A:974:HIS:ND1	2.33	0.50
1:A:1106:ARG:HH21	1:A:1120:LEU:HB3	1.76	0.50
1:A:2225:PHE:HB2	1:A:2228:MET:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2970:SER:HB2	1:A:3049:LEU:HD21	1.94	0.50
1:B:278:GLN:HA	1:B:328:LYS:NZ	2.27	0.50
1:B:486:LEU:HD12	1:B:487:VAL:HG23	1.92	0.50
1:B:627:PRO:HA	1:B:629:ARG:HH21	1.75	0.50
1:B:1291:LEU:HB3	1:B:1595:LEU:HD11	1.92	0.50
1:B:2964:LEU:HD12	1:B:3042:LEU:HD21	1.93	0.50
1:B:3000:LYS:N	1:B:3000:LYS:HD2	2.26	0.50
1:B:3108:GLU:HA	1:B:3111:ARG:HG2	1.92	0.50
1:B:3250:MET:HE1	1:B:3277:LEU:HD22	1.91	0.50
1:B:3384:LYS:HG3	1:B:3386:GLU:HG3	1.92	0.50
1:B:3976:ASN:O	1:B:3980:LEU:HG	2.11	0.50
1:B:4067:LYS:HA	1:B:4070:ASP:OD1	2.10	0.50
1:D:365:LYS:NZ	1:D:365:LYS:O	2.32	0.50
1:D:758:ARG:NH1	1:D:761:GLY:H	2.08	0.50
1:D:1106:ARG:HH21	1:D:1120:LEU:HB3	1.76	0.50
1:D:1299:GLN:HA	1:D:1545:ASN:HB2	1.93	0.50
1:D:2437:ALA:HB2	1:D:2509:VAL:HG22	1.93	0.50
1:D:2754:PHE:CZ	1:D:2930:LEU:HG	2.46	0.50
1:D:3579:LEU:HD23	1:D:3581:GLY:H	1.77	0.50
1:D:3965:LEU:HA	1:D:3968:TYR:CD2	2.46	0.50
1:D:4207:MET:O	1:D:4211:LYS:HG3	2.11	0.50
1:D:4733:GLY:O	1:D:4737:ILE:HG12	2.11	0.50
1:C:1131:ARG:NH1	1:C:1138:PRO:O	2.44	0.50
1:C:1708:ARG:NH1	1:C:1837:GLN:HA	2.26	0.50
1:C:2437:ALA:HB2	1:C:2509:VAL:HG22	1.93	0.50
1:C:3066:ASN:O	1:C:3070:ILE:HG13	2.11	0.50
1:C:3187:ARG:NH2	1:C:3263:TYR:OH	2.38	0.50
1:C:3525:CYS:HA	1:C:3595:ARG:HH21	1.77	0.50
1:C:4061:PHE:O	1:C:4064:MET:HG2	2.12	0.50
1:C:4161:ARG:HH11	1:C:4161:ARG:HG3	1.77	0.50
1:C:4677:LEU:O	1:C:4681:LEU:HG	2.11	0.50
1:A:246:TYR:CD1	1:A:373:LYS:HD3	2.47	0.50
1:A:1570:LYS:NZ	1:A:1571:ASN:OD1	2.45	0.50
1:A:1708:ARG:NH1	1:A:1837:GLN:HA	2.26	0.50
1:A:1839:VAL:HG22	1:A:1938:GLN:HE22	1.77	0.50
1:A:2437:ALA:HB2	1:A:2509:VAL:HG22	1.93	0.50
1:A:2559:LEU:HA	1:A:2562:ILE:HD12	1.93	0.50
1:A:3066:ASN:O	1:A:3070:ILE:HG13	2.11	0.50
1:A:3319:ILE:O	1:A:3322:ILE:HG22	2.12	0.50
1:A:3780:LEU:HD11	1:A:3816:MET:HB3	1.93	0.50
1:A:4017:LEU:HD22	1:A:4139:ILE:HG21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3:GLN:OE1	2:E:3:GLN:N	2.44	0.50
1:B:365:LYS:NZ	1:B:365:LYS:O	2.32	0.50
1:B:1839:VAL:HG22	1:B:1938:GLN:HE22	1.77	0.50
1:B:1854:PHE:CZ	1:B:1862:ILE:HD11	2.45	0.50
1:B:3432:GLU:O	1:B:3436:ARG:HG3	2.11	0.50
1:B:4207:MET:O	1:B:4211:LYS:HG3	2.11	0.50
1:D:172:VAL:HG13	1:D:179:TYR:CE1	2.46	0.50
1:D:688:LEU:HD12	1:D:689:THR:N	2.27	0.50
1:D:1475:THR:HA	1:D:1486:SER:HA	1.92	0.50
1:D:2463:LEU:HA	1:D:2466:LEU:HD12	1.93	0.50
1:D:2621:HIS:HA	1:D:2624:ARG:NE	2.26	0.50
1:D:2638:LYS:O	1:D:2642:LYS:HG3	2.11	0.50
1:D:3525:CYS:HA	1:D:3595:ARG:HH21	1.77	0.50
1:D:3780:LEU:HD11	1:D:3816:MET:HB3	1.92	0.50
1:D:3816:MET:N	1:D:3816:MET:SD	2.84	0.50
1:D:4876:CYS:HA	1:D:4878:ASP:H	1.77	0.50
1:D:4942:GLU:HA	1:D:4945:ASP:OD2	2.12	0.50
1:C:246:TYR:CD1	1:C:373:LYS:HD3	2.47	0.50
1:C:365:LYS:NZ	1:C:369:LEU:HG	2.26	0.50
1:C:462:GLU:H	1:C:462:GLU:CD	2.19	0.50
1:C:688:LEU:HD12	1:C:689:THR:N	2.27	0.50
1:C:984:LEU:HA	1:C:987:ARG:NE	2.26	0.50
1:C:1166:GLY:HA2	1:C:1217:CYS:SG	2.51	0.50
1:C:1243:PRO:HB3	1:C:1602:PRO:HA	1.93	0.50
1:C:1431:THR:O	1:C:1431:THR:HG22	2.11	0.50
1:C:1839:VAL:HG22	1:C:1938:GLN:HE22	1.77	0.50
1:C:2238:TYR:O	1:C:2242:ILE:HG12	2.12	0.50
1:C:2588:ARG:NH2	1:C:2591:ARG:HG3	2.26	0.50
1:C:2754:PHE:CZ	1:C:2930:LEU:HG	2.46	0.50
1:C:2822:THR:OG1	1:C:2824:GLU:OE2	2.21	0.50
1:C:2858:GLN:HB2	1:C:2859:PRO:HD3	1.92	0.50
1:C:2971:GLN:O	1:C:2974:ILE:HG13	2.12	0.50
1:C:3132:THR:HA	1:C:3136:LEU:HB2	1.94	0.50
1:C:3579:LEU:HD23	1:C:3581:GLY:H	1.76	0.50
1:C:3803:SER:HA	1:C:3806:ASN:ND2	2.27	0.50
1:C:4005:GLN:HA	1:C:4114:CYS:HA	1.92	0.50
1:C:4743:MET:HE1	1:C:4745:LEU:HD23	1.94	0.50
1:C:4903:ASP:O	1:C:4913:ARG:NH2	2.41	0.50
1:C:4942:GLU:HA	1:C:4945:ASP:OD2	2.12	0.50
1:A:171:LEU:O	1:A:179:TYR:HA	2.11	0.50
1:A:692:TYR:O	1:A:827:LYS:NZ	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1608:MET:SD	1:A:1608:MET:N	2.84	0.50
1:A:2970:SER:HA	1:A:2973:PHE:HE2	1.71	0.50
1:A:3766:GLN:HB3	1:A:3769:ARG:HH12	1.77	0.50
1:A:3897:ASN:OD1	1:A:3898:ASP:N	2.45	0.50
1:A:4942:GLU:HA	1:A:4945:ASP:OD2	2.11	0.50
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.45	0.50
1:B:2481:LYS:HZ3	1:B:2484:ALA:HB3	1.75	0.50
1:B:2638:LYS:O	1:B:2642:LYS:HG3	2.11	0.50
1:B:3066:ASN:O	1:B:3070:ILE:HG13	2.11	0.50
1:B:3458:PHE:HA	1:B:3461:GLN:NE2	2.26	0.50
1:B:3833:GLN:CD	1:B:3913:ILE:HG21	2.37	0.50
1:B:3897:ASN:OD1	1:B:3898:ASP:N	2.45	0.50
1:D:394:GLN:NE2	1:D:396:GLU:H	2.10	0.50
1:D:1854:PHE:CE1	1:D:1858:ASP:HB3	2.47	0.50
1:D:2971:GLN:O	1:D:2974:ILE:HG13	2.12	0.50
1:C:226:HIS:CG	1:C:226:HIS:O	2.65	0.50
1:C:615:ARG:NH1	1:C:1678:ASN:HA	2.26	0.50
1:C:758:ARG:NH1	1:C:761:GLY:H	2.08	0.50
1:C:1160:ILE:HB	1:C:1179:PHE:HD2	1.76	0.50
1:C:1238:PHE:CD1	1:C:1608:MET:HG3	2.47	0.50
1:C:2423:MET:HE3	1:C:2498:HIS:ND1	2.26	0.50
1:C:2481:LYS:HZ3	1:C:2484:ALA:HB3	1.77	0.50
1:C:3432:GLU:O	1:C:3436:ARG:HG3	2.11	0.50
1:C:3512:ALA:O	1:C:3516:LYS:HG2	2.12	0.50
1:C:3766:GLN:HB3	1:C:3769:ARG:HH12	1.77	0.50
1:A:230:CYS:SG	1:A:231:LEU:N	2.85	0.50
1:A:743:VAL:HG21	1:A:801:LYS:HG3	1.94	0.50
1:A:990:GLU:OE1	1:A:1024:TYR:HB3	2.12	0.50
1:A:1243:PRO:HB3	1:A:1602:PRO:HA	1.93	0.50
1:A:1253:PRO:O	1:A:1275:ARG:NH1	2.34	0.50
1:A:2393:ASP:HB3	1:A:2417:HIS:HA	1.94	0.50
1:A:2971:GLN:O	1:A:2974:ILE:HG13	2.12	0.50
1:B:246:TYR:CD1	1:B:373:LYS:HD3	2.47	0.50
1:B:451:TYR:CE2	1:B:474:ARG:HD3	2.46	0.50
1:B:575:LEU:HD11	1:B:606:LEU:O	2.12	0.50
1:B:614:VAL:HB	1:B:617:ASN:HB2	1.94	0.50
1:B:879:HIS:NE2	1:B:918:ARG:HA	2.26	0.50
1:B:1570:LYS:NZ	1:B:1571:ASN:OD1	2.45	0.50
1:B:2393:ASP:HB3	1:B:2417:HIS:HA	1.94	0.50
1:B:2657:LEU:HB3	1:B:2660:GLY:H	1.77	0.50
1:B:2954:ARG:HH12	1:B:3031:ALA:HA	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2970:SER:HB2	1:B:3049:LEU:HD21	1.94	0.50
1:B:3019:SER:HA	1:B:3025:LEU:H	1.76	0.50
1:B:4061:PHE:O	1:B:4064:MET:HG2	2.12	0.50
1:D:462:GLU:H	1:D:462:GLU:CD	2.19	0.50
1:D:1131:ARG:NH1	1:D:1138:PRO:O	2.44	0.50
1:D:1238:PHE:CD1	1:D:1608:MET:HG3	2.46	0.50
1:D:1726:SER:O	1:D:1729:SER:OG	2.24	0.50
1:D:1951:LEU:HA	1:D:1954:ARG:HG3	1.93	0.50
1:D:2238:TYR:O	1:D:2242:ILE:HG12	2.12	0.50
1:C:451:TYR:CE2	1:C:474:ARG:HD3	2.46	0.50
1:C:2621:HIS:HA	1:C:2624:ARG:NE	2.26	0.50
1:C:2699:ALA:O	1:C:2702:CYS:HB3	2.12	0.50
1:C:3458:PHE:HA	1:C:3461:GLN:NE2	2.27	0.50
1:C:3780:LEU:HD11	1:C:3816:MET:HB3	1.93	0.50
1:A:35:LEU:HA	1:A:51:PRO:HA	1.93	0.50
1:A:172:VAL:HG13	1:A:179:TYR:CE1	2.46	0.50
1:A:226:HIS:CG	1:A:226:HIS:O	2.65	0.50
1:A:2423:MET:HE3	1:A:2498:HIS:ND1	2.26	0.50
1:A:2657:LEU:HB3	1:A:2660:GLY:H	1.77	0.50
1:A:3051:ARG:HH21	1:A:3136:LEU:HD11	1.77	0.50
1:A:3579:LEU:HD23	1:A:3581:GLY:H	1.77	0.50
1:A:3803:SER:HA	1:A:3806:ASN:ND2	2.27	0.50
1:A:4978:HIS:HA	1:A:4982:GLU:HG3	1.92	0.50
2:H:7:ILE:N	2:H:71:ARG:O	2.39	0.50
2:G:37:ASP:HB2	1:C:1782:PHE:HD2	1.76	0.50
1:B:226:HIS:CG	1:B:226:HIS:O	2.65	0.50
1:B:921:ASN:HA	1:B:924:MET:HG3	1.94	0.50
1:B:2480:GLY:N	1:B:2484:ALA:O	2.45	0.50
1:B:2699:ALA:O	1:B:2702:CYS:HB3	2.12	0.50
1:B:3512:ALA:O	1:B:3516:LYS:HG2	2.11	0.50
1:D:230:CYS:SG	1:D:231:LEU:N	2.85	0.50
1:D:950:LEU:HD22	1:D:970:LEU:HD23	1.93	0.50
1:D:971:ASP:OD2	1:D:974:HIS:ND1	2.33	0.50
1:D:1839:VAL:HG22	1:D:1938:GLN:HE22	1.77	0.50
1:D:2225:PHE:HB2	1:D:2228:MET:HB2	1.93	0.50
1:D:2423:MET:HE3	1:D:2498:HIS:ND1	2.26	0.50
1:C:278:GLN:HA	1:C:328:LYS:NZ	2.27	0.50
1:C:743:VAL:HG21	1:C:801:LYS:HG3	1.94	0.50
1:C:2762:THR:O	1:C:2765:LYS:HB2	2.12	0.50
1:C:2828:GLU:OE1	1:C:2829:GLY:N	2.45	0.50
1:C:3850:GLN:O	1:C:3854:GLU:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3994:HIS:HD2	1:C:3998:HIS:CE1	2.29	0.50
1:C:4864:ASN:HB2	1:C:4874:MET:HE1	1.93	0.50
1:C:4876:CYS:HA	1:C:4878:ASP:H	1.77	0.50
1:C:4993:MET:HA	1:C:4996:ILE:HD12	1.94	0.50
1:A:394:GLN:NE2	1:A:396:GLU:H	2.10	0.50
1:A:1238:PHE:CD1	1:A:1608:MET:HG3	2.47	0.50
1:A:1842:LEU:O	1:A:1846:SER:OG	2.29	0.50
1:A:2376:LEU:O	1:A:2380:ILE:HG12	2.11	0.50
1:A:2481:LYS:HZ3	1:A:2484:ALA:HB3	1.76	0.50
1:A:2621:HIS:CG	1:A:2624:ARG:HE	2.30	0.50
1:A:2690:LYS:N	1:A:2690:LYS:HD2	2.27	0.50
1:A:2967:MET:HG3	1:A:3042:LEU:HD22	1.94	0.50
1:A:3132:THR:HA	1:A:3136:LEU:HB2	1.94	0.50
1:A:3149:GLN:HE22	1:A:3150:HIS:CE1	2.30	0.50
1:A:3833:GLN:CD	1:A:3913:ILE:HG21	2.37	0.50
1:B:1299:GLN:HA	1:B:1545:ASN:HB2	1.93	0.50
1:B:1708:ARG:NH1	1:B:1837:GLN:HA	2.26	0.50
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.12	0.50
1:B:2559:LEU:HA	1:B:2562:ILE:HD12	1.93	0.50
1:B:3244:PRO:HB3	1:B:3248:ARG:HD3	1.94	0.50
1:B:3319:ILE:O	1:B:3322:ILE:HG22	2.12	0.50
1:B:3367:LYS:HE2	1:B:3371:LYS:NZ	2.27	0.50
1:B:3513:THR:O	1:B:3517:MET:HG2	2.12	0.50
1:B:3579:LEU:HD23	1:B:3581:GLY:H	1.77	0.50
1:D:984:LEU:HA	1:D:987:ARG:NE	2.26	0.50
1:D:1106:ARG:NE	1:D:1120:LEU:HB3	2.24	0.50
1:D:1648:MET:SD	1:D:1649:ASP:N	2.85	0.50
1:D:1805:GLU:OE1	1:D:1805:GLU:N	2.31	0.50
1:D:1943:LEU:HD13	1:D:2098:VAL:HG22	1.94	0.50
1:D:2393:ASP:HB3	1:D:2417:HIS:HA	1.94	0.50
1:D:2621:HIS:CG	1:D:2624:ARG:HE	2.30	0.50
1:D:3051:ARG:HH21	1:D:3136:LEU:HD11	1.77	0.50
1:D:3367:LYS:HE2	1:D:3371:LYS:NZ	2.27	0.50
1:D:3940:LYS:O	1:D:4002:LYS:NZ	2.44	0.50
1:D:4555:LEU:HD21	1:D:4659:ILE:HG23	1.94	0.50
1:D:4677:LEU:O	1:D:4681:LEU:HG	2.11	0.50
1:C:868:GLU:HA	1:C:871:ARG:HG3	1.94	0.50
1:C:1229:ASN:OD1	1:C:1826:ALA:HA	2.12	0.50
1:C:2321:ILE:HB	1:C:2418:LEU:HD11	1.93	0.50
1:C:2555:CYS:HA	1:C:2559:LEU:HG	1.93	0.50
1:C:2559:LEU:HA	1:C:2562:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2621:HIS:CG	1:C:2624:ARG:HE	2.30	0.50
1:A:463:GLU:OE1	1:A:463:GLU:N	2.36	0.49
1:A:637:LEU:HD21	1:A:1696:HIS:ND1	2.27	0.49
1:A:975:VAL:HG21	1:A:1048:GLY:HA2	1.94	0.49
1:A:1131:ARG:NH1	1:A:1138:PRO:O	2.44	0.49
1:A:1648:MET:SD	1:A:1649:ASP:N	2.85	0.49
1:A:1712:TYR:CG	1:A:1840:PRO:HB3	2.46	0.49
1:A:1943:LEU:HD13	1:A:2098:VAL:HG22	1.94	0.49
1:A:2165:LEU:HD21	1:A:2174:GLU:HB3	1.93	0.49
1:A:2463:LEU:HA	1:A:2466:LEU:HD12	1.93	0.49
1:A:2555:CYS:HA	1:A:2559:LEU:HG	1.93	0.49
1:A:3174:SER:O	1:A:3177:THR:OG1	2.24	0.49
1:A:3367:LYS:HE2	1:A:3371:LYS:NZ	2.27	0.49
1:A:4716:TRP:CZ3	1:A:4717:ASP:HB2	2.46	0.49
2:G:25:HIS:HB3	2:G:40:ARG:NH1	2.27	0.49
1:B:257:ARG:O	1:B:284:HIS:NE2	2.35	0.49
1:B:772:ASN:ND2	1:B:1470:ARG:HD2	2.26	0.49
1:B:990:GLU:OE1	1:B:1024:TYR:HB3	2.12	0.49
1:B:3344:PRO:O	1:B:3347:SER:OG	2.23	0.49
1:B:3525:CYS:HA	1:B:3595:ARG:HH21	1.77	0.49
1:B:3527:PRO:HB2	1:B:3573:MET:SD	2.51	0.49
1:B:4673:ARG:HH22	1:B:4701:TRP:HB3	1.77	0.49
1:B:4682:GLU:O	1:B:4727:LYS:NZ	2.40	0.49
1:D:437:PRO:HB2	1:D:440:ALA:HB3	1.92	0.49
1:D:551:LEU:HD23	1:D:560:ILE:HG22	1.94	0.49
1:D:868:GLU:HA	1:D:871:ARG:HG3	1.94	0.49
1:D:1243:PRO:HB3	1:D:1602:PRO:HA	1.93	0.49
1:D:3513:THR:O	1:D:3517:MET:HG2	2.12	0.49
1:D:4061:PHE:O	1:D:4064:MET:HG2	2.12	0.49
1:C:103:TYR:OH	1:C:167:ASP:OD2	2.30	0.49
1:C:601:ASP:OD1	1:C:1668:ARG:NH2	2.45	0.49
1:C:838:HIS:ND1	1:C:1201:HIS:HB2	2.27	0.49
1:C:1106:ARG:HH21	1:C:1120:LEU:HB3	1.76	0.49
1:C:1608:MET:SD	1:C:1608:MET:N	2.84	0.49
1:C:3319:ILE:O	1:C:3322:ILE:HG22	2.12	0.49
1:C:3629:ARG:HA	1:C:3629:ARG:NE	2.27	0.49
1:C:3976:ASN:O	1:C:3980:LEU:HG	2.11	0.49
1:C:3986:TRP:CD1	1:C:3986:TRP:H	2.29	0.49
1:A:278:GLN:HA	1:A:328:LYS:NZ	2.27	0.49
1:A:909:ASN:O	1:A:913:LEU:N	2.42	0.49
1:A:1299:GLN:HA	1:A:1545:ASN:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2588:ARG:NH2	1:A:2591:ARG:HG3	2.26	0.49
1:A:2964:LEU:HD12	1:A:3042:LEU:HD21	1.93	0.49
1:A:3816:MET:N	1:A:3816:MET:SD	2.84	0.49
1:B:1166:GLY:HA2	1:B:1217:CYS:SG	2.51	0.49
1:B:1648:MET:SD	1:B:1649:ASP:N	2.85	0.49
1:B:2449:GLU:HA	1:B:2452:ARG:HE	1.76	0.49
1:B:2971:GLN:O	1:B:2974:ILE:HG13	2.12	0.49
1:B:3226:GLU:O	1:B:3227:ARG:HG3	2.12	0.49
1:B:4677:LEU:O	1:B:4681:LEU:HG	2.12	0.49
1:D:226:HIS:CG	1:D:226:HIS:O	2.65	0.49
1:D:515:TRP:HA	1:D:518:ILE:HD12	1.94	0.49
1:D:637:LEU:HD21	1:D:1696:HIS:ND1	2.27	0.49
1:D:1106:ARG:NH2	1:D:1120:LEU:HD13	2.27	0.49
1:D:1663:HIS:NE2	1:D:1711:TYR:OH	2.42	0.49
1:D:1695:LEU:O	1:D:1699:GLU:HG2	2.13	0.49
1:D:2699:ALA:O	1:D:2702:CYS:HB3	2.12	0.49
1:D:2879:ALA:HB2	1:D:2923:ALA:HB2	1.94	0.49
1:C:614:VAL:HB	1:C:617:ASN:HB2	1.94	0.49
1:C:891:TRP:CG	1:C:902:ARG:HH21	2.30	0.49
1:C:1648:MET:SD	1:C:1649:ASP:N	2.85	0.49
1:C:1681:VAL:O	1:C:1685:LEU:HG	2.12	0.49
1:C:2332:LEU:O	1:C:2432:LEU:HD21	2.11	0.49
1:C:2657:LEU:HB3	1:C:2660:GLY:H	1.77	0.49
1:C:4207:MET:O	1:C:4211:LYS:HG3	2.11	0.49
1:C:4673:ARG:HH22	1:C:4701:TRP:HB3	1.77	0.49
1:A:404:ILE:HG23	1:A:483:MET:HE2	1.93	0.49
1:A:3702:VAL:O	1:A:3778:MET:HE1	2.12	0.49
1:A:4823:LEU:HD13	1:B:4843:LEU:HD13	1.94	0.49
1:A:5019:TRP:HE3	1:A:5021:PHE:HE1	1.60	0.49
2:H:88:PRO:CB	1:D:623:GLU:OE1	2.61	0.49
1:B:103:TYR:OH	1:B:167:ASP:OD2	2.30	0.49
1:B:283:ARG:HA	1:B:290:TYR:HA	1.94	0.49
1:B:688:LEU:HD12	1:B:689:THR:N	2.27	0.49
1:B:891:TRP:CG	1:B:902:ARG:HH21	2.30	0.49
1:B:2143:THR:OG1	1:B:3651:ASN:ND2	2.46	0.49
1:B:3986:TRP:CD1	1:B:3986:TRP:H	2.29	0.49
1:B:4161:ARG:HH11	1:B:4161:ARG:HG3	1.77	0.49
1:B:4189:ARG:NH1	1:B:4190:ILE:O	2.45	0.49
1:B:4993:MET:HA	1:B:4996:ILE:HD12	1.94	0.49
1:D:321:GLU:N	1:D:321:GLU:OE2	2.44	0.49
1:D:743:VAL:HG21	1:D:801:LYS:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:765:GLN:H	1:D:765:GLN:CD	2.19	0.49
1:D:879:HIS:NE2	1:D:918:ARG:HA	2.26	0.49
1:D:2165:LEU:HD21	1:D:2174:GLU:HB3	1.93	0.49
1:D:2555:CYS:HA	1:D:2559:LEU:HG	1.93	0.49
1:D:2657:LEU:HB3	1:D:2660:GLY:H	1.77	0.49
1:D:2967:MET:HG3	1:D:3042:LEU:HD22	1.94	0.49
1:D:4716:TRP:CZ3	1:D:4717:ASP:HB2	2.46	0.49
1:C:35:LEU:HA	1:C:51:PRO:HA	1.94	0.49
1:C:172:VAL:HG13	1:C:179:TYR:CE1	2.46	0.49
1:C:637:LEU:HD21	1:C:1696:HIS:ND1	2.28	0.49
1:C:921:ASN:HA	1:C:924:MET:HG3	1.94	0.49
1:C:1022:VAL:HG22	1:C:1023:PRO:HD2	1.93	0.49
1:C:1801:ALA:O	1:C:1802:ILE:HD13	2.13	0.49
1:C:2690:LYS:HD2	1:C:2690:LYS:N	2.27	0.49
1:C:2819:TRP:HE1	1:C:2881:ASN:CG	2.20	0.49
1:C:3236:VAL:HA	1:C:3239:MET:HG3	1.94	0.49
1:C:3527:PRO:HB2	1:C:3573:MET:SD	2.51	0.49
1:C:4017:LEU:HD22	1:C:4139:ILE:HG21	1.92	0.49
1:A:464:LYS:O	1:A:468:LEU:HG	2.13	0.49
1:A:1782:PHE:HD2	2:E:37:ASP:HB2	1.76	0.49
1:A:2889:LYS:HD2	1:A:2890:LYS:N	2.27	0.49
1:A:3458:PHE:HA	1:A:3461:GLN:NE2	2.26	0.49
1:A:4161:ARG:HH11	1:A:4161:ARG:HG3	1.77	0.49
1:B:743:VAL:HG21	1:B:801:LYS:HG3	1.94	0.49
1:B:896:VAL:HB	1:B:901:LYS:HE2	1.95	0.49
1:B:924:MET:O	1:B:928:THR:HG23	2.12	0.49
1:B:975:VAL:HG21	1:B:1048:GLY:HA2	1.94	0.49
1:B:1106:ARG:NH2	1:B:1120:LEU:HD13	2.28	0.49
1:B:2165:LEU:HD21	1:B:2174:GLU:HB3	1.93	0.49
1:B:2530:MET:SD	1:B:2531:ARG:NH1	2.82	0.49
1:B:2560:PRO:O	1:B:2564:LYS:NZ	2.43	0.49
1:B:2762:THR:O	1:B:2765:LYS:HB2	2.12	0.49
1:B:3803:SER:HA	1:B:3806:ASN:ND2	2.27	0.49
1:B:4823:LEU:HD13	1:C:4843:LEU:HD22	1.94	0.49
1:D:463:GLU:OE1	1:D:463:GLU:N	2.36	0.49
1:D:601:ASP:OD1	1:D:1668:ARG:NH2	2.45	0.49
1:D:1022:VAL:HG22	1:D:1023:PRO:HD2	1.93	0.49
1:D:2321:ILE:HB	1:D:2418:LEU:HD11	1.93	0.49
1:D:3132:THR:HA	1:D:3136:LEU:HB2	1.94	0.49
1:D:3226:GLU:O	1:D:3227:ARG:HG3	2.12	0.49
1:D:4573:ILE:O	1:D:4577:LEU:HG	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4776:GLN:HA	1:D:4779:LYS:HE2	1.95	0.49
1:D:5019:TRP:HE3	1:D:5021:PHE:HE1	1.60	0.49
1:C:924:MET:O	1:C:928:THR:HG23	2.12	0.49
1:C:1299:GLN:HA	1:C:1545:ASN:HB2	1.93	0.49
1:C:1695:LEU:O	1:C:1699:GLU:HG2	2.13	0.49
1:C:1854:PHE:CE1	1:C:1858:ASP:HB3	2.46	0.49
1:C:2090:LYS:NZ	1:C:2092:GLN:HG2	2.26	0.49
1:C:2143:THR:OG1	1:C:3651:ASN:ND2	2.46	0.49
1:C:2393:ASP:HB3	1:C:2417:HIS:HA	1.94	0.49
1:A:551:LEU:HD23	1:A:560:ILE:HG22	1.94	0.49
1:A:2090:LYS:HZ2	1:A:2092:GLN:HG2	1.77	0.49
1:A:2238:TYR:O	1:A:2242:ILE:HG12	2.12	0.49
1:A:2604:GLU:O	1:A:2608:MET:HG2	2.12	0.49
1:A:2699:ALA:O	1:A:2702:CYS:HB3	2.12	0.49
1:A:3512:ALA:O	1:A:3516:LYS:HG2	2.11	0.49
1:A:3525:CYS:HA	1:A:3595:ARG:HH21	1.77	0.49
1:A:3896:ASN:O	1:A:3900:GLN:HG3	2.12	0.49
2:H:2:VAL:HG23	2:H:80:TYR:HD2	1.78	0.49
2:H:42:ARG:HB3	2:H:44:LYS:HZ3	1.77	0.49
2:G:90:ILE:HG12	1:C:1687:SER:HB3	1.93	0.49
1:B:564:LEU:O	1:B:568:LEU:HG	2.13	0.49
1:B:803:LEU:HD12	1:B:804:PRO:O	2.12	0.49
1:B:838:HIS:ND1	1:B:1201:HIS:HB2	2.27	0.49
1:B:1106:ARG:HH11	1:B:1108:GLU:CD	2.21	0.49
1:B:1951:LEU:HA	1:B:1954:ARG:HG3	1.93	0.49
1:B:2332:LEU:O	1:B:2432:LEU:HD21	2.11	0.49
1:B:2440:MET:O	1:B:2444:GLN:HG3	2.13	0.49
1:B:2828:GLU:OE1	1:B:2829:GLY:N	2.44	0.49
1:B:3149:GLN:HE22	1:B:3150:HIS:CE1	2.30	0.49
1:B:3174:SER:O	1:B:3177:THR:OG1	2.24	0.49
1:B:3372:VAL:HG21	1:B:3401:LEU:HD21	1.94	0.49
1:B:3629:ARG:NE	1:B:3629:ARG:HA	2.27	0.49
1:B:4733:GLY:O	1:B:4737:ILE:HG12	2.11	0.49
1:D:125:ARG:HH11	1:D:127:MET:HE1	1.78	0.49
1:D:838:HIS:ND1	1:D:1201:HIS:HB2	2.27	0.49
1:D:1681:VAL:O	1:D:1685:LEU:HG	2.12	0.49
1:D:2480:GLY:N	1:D:2484:ALA:O	2.45	0.49
1:D:2819:TRP:HE1	1:D:2881:ASN:CG	2.20	0.49
1:D:2913:ALA:HA	1:D:2916:LYS:HG2	1.94	0.49
1:D:2970:SER:HB2	1:D:3049:LEU:HD21	1.94	0.49
1:D:3149:GLN:HE22	1:D:3150:HIS:CE1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4993:MET:HA	1:D:4996:ILE:HD12	1.94	0.49
1:C:145:ALA:N	1:C:175:SER:OG	2.44	0.49
1:C:365:LYS:NZ	1:C:365:LYS:O	2.32	0.49
1:C:879:HIS:NE2	1:C:918:ARG:HA	2.26	0.49
1:C:950:LEU:HD22	1:C:970:LEU:HD23	1.93	0.49
1:C:1106:ARG:HH11	1:C:1108:GLU:CD	2.21	0.49
1:C:1227:ALA:HA	1:C:1230:MET:HG2	1.95	0.49
1:C:2970:SER:HB2	1:C:3049:LEU:HD21	1.94	0.49
1:C:3051:ARG:HH21	1:C:3136:LEU:HD11	1.77	0.49
1:C:3226:GLU:O	1:C:3227:ARG:HG3	2.12	0.49
1:C:3506:GLN:H	1:C:3506:GLN:CD	2.20	0.49
1:C:3534:MET:N	1:C:3534:MET:SD	2.86	0.49
1:C:3940:LYS:O	1:C:4002:LYS:NZ	2.44	0.49
1:C:4573:ILE:O	1:C:4577:LEU:HG	2.12	0.49
1:A:1106:ARG:NH2	1:A:1120:LEU:HD13	2.27	0.49
1:A:1220:GLN:CD	1:D:3522:LEU:HB3	2.37	0.49
1:A:1648:MET:SD	1:A:1652:GLU:HB2	2.53	0.49
1:A:1695:LEU:O	1:A:1699:GLU:HG2	2.13	0.49
1:A:2419:GLY:O	1:A:2423:MET:HG2	2.13	0.49
1:A:4743:MET:HE1	1:A:4745:LEU:HD23	1.94	0.49
2:H:93:PRO:O	2:H:94:HIS:ND1	2.46	0.49
1:B:464:LYS:O	1:B:468:LEU:HG	2.13	0.49
1:B:868:GLU:HA	1:B:871:ARG:HG3	1.94	0.49
1:B:1648:MET:SD	1:B:1652:GLU:HB2	2.53	0.49
1:B:2225:PHE:HB2	1:B:2228:MET:HB2	1.93	0.49
1:B:2698:MET:O	1:B:2701:PRO:HD2	2.13	0.49
1:B:2819:TRP:HE1	1:B:2881:ASN:CG	2.20	0.49
1:B:3562:LYS:HD3	1:B:3562:LYS:HA	1.60	0.49
1:B:3896:ASN:O	1:B:3900:GLN:HG3	2.12	0.49
1:B:4876:CYS:HA	1:B:4878:ASP:H	1.77	0.49
1:D:464:LYS:O	1:D:468:LEU:HG	2.13	0.49
1:D:1570:LYS:NZ	1:D:1571:ASN:OD1	2.45	0.49
1:D:2189:LYS:HZ1	1:D:2193:GLN:HB2	1.78	0.49
1:D:2828:GLU:OE1	1:D:2829:GLY:N	2.45	0.49
1:D:3319:ILE:O	1:D:3322:ILE:HG22	2.12	0.49
1:D:3506:GLN:H	1:D:3506:GLN:CD	2.20	0.49
1:D:3512:ALA:O	1:D:3516:LYS:HG2	2.12	0.49
1:D:3702:VAL:O	1:D:3778:MET:HE1	2.13	0.49
1:D:3833:GLN:CD	1:D:3913:ILE:HG21	2.37	0.49
1:D:3986:TRP:CD1	1:D:3986:TRP:H	2.29	0.49
1:C:125:ARG:HH11	1:C:127:MET:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:455:PRO:HB3	1:C:467:LYS:HG2	1.95	0.49
1:C:463:GLU:OE1	1:C:463:GLU:N	2.36	0.49
1:C:551:LEU:HD23	1:C:560:ILE:HG22	1.94	0.49
1:C:731:THR:O	1:C:765:GLN:NE2	2.46	0.49
1:C:990:GLU:OE1	1:C:1024:TYR:HB3	2.12	0.49
1:C:1648:MET:SD	1:C:1652:GLU:HB2	2.53	0.49
1:C:2879:ALA:HB2	1:C:2923:ALA:HB2	1.94	0.49
1:C:2889:LYS:HD2	1:C:2890:LYS:N	2.27	0.49
1:C:3897:ASN:OD1	1:C:3898:ASP:N	2.45	0.49
1:C:4732:PHE:HB3	1:C:4737:ILE:HD11	1.95	0.49
1:A:978:THR:OG1	1:A:981:GLN:OE1	2.30	0.49
1:A:1951:LEU:HA	1:A:1954:ARG:HG3	1.93	0.49
1:A:2358:ILE:HG13	1:A:2359:ARG:NE	2.28	0.49
1:A:2762:THR:O	1:A:2765:LYS:HB2	2.12	0.49
1:A:2879:ALA:HB2	1:A:2923:ALA:HB2	1.94	0.49
1:A:3226:GLU:O	1:A:3227:ARG:HG3	2.12	0.49
1:A:3313:ASN:HB2	1:A:3350:ARG:HE	1.78	0.49
1:A:4249:ALA:O	1:A:4252:SER:OG	2.29	0.49
1:A:4555:LEU:HD21	1:A:4659:ILE:HG23	1.94	0.49
1:A:4677:LEU:O	1:A:4681:LEU:HG	2.12	0.49
1:A:4980:LEU:HA	1:A:4984:ASN:HD22	1.76	0.49
1:B:230:CYS:SG	1:B:231:LEU:N	2.85	0.49
1:B:233:ILE:HA	1:B:245:VAL:HG12	1.95	0.49
1:B:551:LEU:HD23	1:B:560:ILE:HG22	1.94	0.49
1:B:2480:GLY:O	1:B:2481:LYS:HG2	2.13	0.49
1:B:2967:MET:HG3	1:B:3042:LEU:HD22	1.94	0.49
1:B:3313:ASN:HB2	1:B:3350:ARG:HE	1.78	0.49
1:B:3534:MET:SD	1:B:3534:MET:N	2.86	0.49
1:B:4573:ILE:O	1:B:4577:LEU:HG	2.13	0.49
1:D:35:LEU:HA	1:D:51:PRO:HA	1.93	0.49
1:D:278:GLN:HA	1:D:328:LYS:NZ	2.27	0.49
1:D:924:MET:O	1:D:928:THR:HG23	2.12	0.49
1:D:2516:ASP:HA	1:D:2519:LEU:HD12	1.95	0.49
1:C:230:CYS:SG	1:C:231:LEU:N	2.85	0.49
1:C:321:GLU:OE2	1:C:321:GLU:N	2.44	0.49
1:C:515:TRP:HA	1:C:518:ILE:HD12	1.94	0.49
1:C:1759:ARG:NH1	1:C:1760:HIS:O	2.46	0.49
1:C:2440:MET:O	1:C:2444:GLN:HG3	2.13	0.49
1:C:2698:MET:O	1:C:2701:PRO:HD2	2.13	0.49
1:C:3833:GLN:CD	1:C:3913:ILE:HG21	2.37	0.49
1:A:601:ASP:OD1	1:A:1668:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:614:VAL:HB	1:A:617:ASN:HB2	1.94	0.49
1:A:1106:ARG:NE	1:A:1120:LEU:HB3	2.24	0.49
1:A:2819:TRP:HE1	1:A:2881:ASN:CG	2.20	0.49
1:A:2828:GLU:OE1	1:A:2829:GLY:N	2.45	0.49
1:A:2909:ASP:OD1	1:A:2909:ASP:N	2.46	0.49
1:A:3236:VAL:HA	1:A:3239:MET:HG3	1.94	0.49
1:A:4207:MET:O	1:A:4211:LYS:HG3	2.11	0.49
1:A:4993:MET:HA	1:A:4996:ILE:HD12	1.94	0.49
2:H:24:VAL:O	2:H:46:PHE:N	2.44	0.49
2:F:105:LYS:NZ	2:F:106:LEU:O	2.39	0.49
1:B:145:ALA:N	1:B:175:SER:OG	2.44	0.49
1:B:978:THR:OG1	1:B:981:GLN:OE1	2.30	0.49
1:B:1619:ARG:HH21	1:B:1626:TRP:HE1	1.60	0.49
1:B:1681:VAL:O	1:B:1685:LEU:HG	2.12	0.49
1:B:2107:GLN:HG3	1:B:3683:GLN:NE2	2.28	0.49
1:B:2312:MET:O	1:B:2316:LYS:N	2.46	0.49
1:B:2742:THR:HG23	1:B:2745:VAL:HB	1.95	0.49
1:B:2889:LYS:HD2	1:B:2890:LYS:N	2.27	0.49
1:B:3850:GLN:O	1:B:3854:GLU:HG3	2.12	0.49
1:D:66:CYS:O	1:D:111:HIS:ND1	2.41	0.49
1:D:1842:LEU:O	1:D:1846:SER:OG	2.29	0.49
1:D:2143:THR:OG1	1:D:3651:ASN:ND2	2.46	0.49
1:D:2481:LYS:HZ3	1:D:2484:ALA:HB3	1.78	0.49
1:D:4677:LEU:HD12	1:D:4678:ALA:N	2.28	0.49
1:D:4743:MET:HE1	1:D:4745:LEU:HD23	1.94	0.49
1:C:394:GLN:NE2	1:C:396:GLU:H	2.10	0.49
1:C:464:LYS:O	1:C:468:LEU:HG	2.13	0.49
1:C:978:THR:OG1	1:C:981:GLN:OE1	2.30	0.49
1:C:1253:PRO:O	1:C:1275:ARG:NH1	2.34	0.49
1:C:2107:GLN:HG3	1:C:3683:GLN:NE2	2.28	0.49
1:C:2165:LEU:HD21	1:C:2174:GLU:HB3	1.93	0.49
1:C:2909:ASP:N	1:C:2909:ASP:OD1	2.46	0.49
1:A:455:PRO:HB3	1:A:467:LYS:HG2	1.95	0.49
1:A:1106:ARG:HH11	1:A:1108:GLU:CD	2.21	0.49
1:A:1220:GLN:CG	1:D:3522:LEU:HB3	2.42	0.49
1:A:1229:ASN:OD1	1:A:1826:ALA:HA	2.12	0.49
1:A:2715:VAL:HG13	1:A:2953:LYS:HB2	1.95	0.49
1:A:3171:SER:OG	1:A:3172:ILE:N	2.46	0.49
1:A:3372:VAL:HG21	1:A:3401:LEU:HD21	1.94	0.49
1:A:3513:THR:O	1:A:3517:MET:HG2	2.12	0.49
1:A:4689:THR:OG1	1:A:4690:GLU:OE1	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:63:VAL:HG22	2:E:101:VAL:HG11	1.94	0.49
2:H:7:ILE:HD12	2:H:72:ALA:HA	1.94	0.49
1:B:455:PRO:HB3	1:B:467:LYS:HG2	1.95	0.49
1:B:667:MET:HE3	1:B:668:VAL:N	2.28	0.49
1:B:1106:ARG:NE	1:B:1120:LEU:HB3	2.24	0.49
1:B:1759:ARG:NH1	1:B:1760:HIS:O	2.46	0.49
1:B:1801:ALA:O	1:B:1802:ILE:HD13	2.13	0.49
1:B:1842:LEU:O	1:B:1846:SER:OG	2.29	0.49
1:B:2463:LEU:HB2	1:B:2510:TYR:CE1	2.48	0.49
1:B:2715:VAL:HG13	1:B:2953:LYS:HB2	1.95	0.49
1:B:3051:ARG:HH21	1:B:3136:LEU:HD11	1.77	0.49
1:B:3702:VAL:O	1:B:3778:MET:HE1	2.13	0.49
1:B:4942:GLU:HA	1:B:4945:ASP:OD2	2.11	0.49
1:D:564:LEU:O	1:D:568:LEU:HG	2.13	0.49
1:D:1106:ARG:HH11	1:D:1108:GLU:CD	2.21	0.49
1:D:3533:ILE:HG22	1:D:3537:LYS:HZ2	1.78	0.49
1:D:3547:GLU:H	1:D:3547:GLU:CD	2.19	0.49
1:D:3850:GLN:O	1:D:3854:GLU:HG3	2.12	0.49
1:D:4933:GLN:O	1:D:4937:ILE:HG12	2.13	0.49
1:D:4980:LEU:HA	1:D:4984:ASN:HD22	1.76	0.49
1:C:2259:GLU:HB2	1:C:2297:LYS:HZ3	1.77	0.49
1:C:3171:SER:OG	1:C:3172:ILE:N	2.46	0.49
1:C:3534:MET:O	1:C:3538:THR:HG23	2.13	0.49
1:C:3896:ASN:O	1:C:3900:GLN:HG3	2.12	0.49
1:C:4680:LYS:O	1:C:4685:GLY:N	2.31	0.49
1:C:4717:ASP:C	1:C:4718:LYS:HD3	2.38	0.49
1:C:4902:GLU:OE2	1:C:4902:GLU:N	2.26	0.49
1:A:731:THR:O	1:A:765:GLN:NE2	2.46	0.49
1:A:1040:CYS:HA	1:A:1043:VAL:HB	1.95	0.49
1:A:2452:ARG:HH11	1:B:175:SER:HA	1.75	0.49
1:A:2463:LEU:HB2	1:A:2510:TYR:CE1	2.48	0.49
1:A:2480:GLY:N	1:A:2484:ALA:O	2.45	0.49
1:A:3545:THR:OG1	1:A:3547:GLU:OE1	2.21	0.49
1:A:3850:GLN:O	1:A:3854:GLU:HG3	2.12	0.49
1:B:213:TYR:CE1	1:B:337:PRO:HB2	2.48	0.49
1:B:462:GLU:H	1:B:462:GLU:CD	2.19	0.49
1:B:2879:ALA:HB2	1:B:2923:ALA:HB2	1.94	0.49
1:B:2886:TRP:CD1	1:B:2889:LYS:HZ2	2.31	0.49
1:B:3145:GLN:CG	1:B:3196:ARG:HE	2.25	0.49
1:B:3805:LEU:O	1:B:3890:LEU:HD22	2.13	0.49
1:B:4555:LEU:HD21	1:B:4659:ILE:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4677:LEU:HD12	1:B:4678:ALA:N	2.28	0.49
1:D:597:HIS:HB3	1:D:1661:ARG:HH11	1.78	0.49
1:D:1007:TYR:O	1:D:1017:ARG:NE	2.39	0.49
1:D:1229:ASN:OD1	1:D:1826:ALA:HA	2.12	0.49
1:D:1801:ALA:O	1:D:1802:ILE:HD13	2.12	0.49
1:D:2107:GLN:HG3	1:D:3683:GLN:NE2	2.28	0.49
1:D:2419:GLY:O	1:D:2423:MET:HG2	2.12	0.49
1:D:2690:LYS:N	1:D:2690:LYS:HD2	2.27	0.49
1:D:2762:THR:O	1:D:2765:LYS:HB2	2.12	0.49
1:D:3803:SER:HA	1:D:3806:ASN:ND2	2.27	0.49
1:D:4092:ASP:HA	1:D:4095:LYS:HE2	1.95	0.49
1:D:4732:PHE:HB3	1:D:4737:ILE:HD11	1.95	0.49
1:C:803:LEU:HD12	1:C:804:PRO:O	2.12	0.49
1:C:935:LEU:HD22	1:C:987:ARG:CZ	2.43	0.49
1:C:1106:ARG:NH2	1:C:1120:LEU:HD13	2.27	0.49
1:C:2243:SER:OG	1:C:2245:GLN:OE1	2.18	0.49
1:C:2516:ASP:HA	1:C:2519:LEU:HD12	1.95	0.49
1:C:2967:MET:HG3	1:C:3042:LEU:HD22	1.94	0.49
1:C:3822:ASP:O	1:C:3824:LYS:NZ	2.30	0.49
1:C:3927:GLN:HG2	1:C:3992:PHE:CE2	2.48	0.49
1:A:233:ILE:HA	1:A:245:VAL:HG12	1.95	0.48
1:A:355:LEU:HB3	1:A:378:LEU:HD22	1.95	0.48
1:A:803:LEU:HD12	1:A:804:PRO:O	2.12	0.48
1:A:1007:TYR:O	1:A:1017:ARG:NE	2.39	0.48
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	1.94	0.48
1:A:2143:THR:OG1	1:A:3651:ASN:ND2	2.46	0.48
1:A:3805:LEU:O	1:A:3890:LEU:HD22	2.13	0.48
1:A:4061:PHE:O	1:A:4064:MET:HG2	2.12	0.48
1:A:4582:VAL:HG22	1:B:4877:ASP:HA	1.95	0.48
1:A:4673:ARG:HH22	1:A:4701:TRP:HB3	1.77	0.48
1:A:4776:GLN:HA	1:A:4779:LYS:HE2	1.95	0.48
1:A:4876:CYS:HA	1:A:4878:ASP:H	1.77	0.48
2:H:42:ARG:NE	2:H:42:ARG:HA	2.28	0.48
2:H:74:LEU:HD12	2:H:101:VAL:HG21	1.94	0.48
2:F:94:HIS:O	2:F:94:HIS:CG	2.66	0.48
1:B:1040:CYS:HA	1:B:1043:VAL:HB	1.95	0.48
1:B:2621:HIS:CG	1:B:2624:ARG:HE	2.30	0.48
1:B:2690:LYS:N	1:B:2690:LYS:HD2	2.27	0.48
1:B:2761:TYR:O	1:B:2765:LYS:HG2	2.13	0.48
1:D:404:ILE:HG23	1:D:483:MET:HE2	1.93	0.48
1:D:455:PRO:HB3	1:D:467:LYS:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:614:VAL:HB	1:D:617:ASN:HB2	1.94	0.48
1:D:935:LEU:HD22	1:D:987:ARG:CZ	2.43	0.48
1:D:1213:PHE:HA	1:D:1216:ILE:HD12	1.95	0.48
1:D:1648:MET:SD	1:D:1652:GLU:HB2	2.53	0.48
1:D:2244:ARG:HH22	1:D:3860:ASN:HD22	1.62	0.48
1:D:3236:VAL:HA	1:D:3239:MET:HG3	1.94	0.48
1:D:3244:PRO:HB3	1:D:3248:ARG:HD3	1.94	0.48
1:D:3629:ARG:NE	1:D:3629:ARG:HA	2.27	0.48
1:D:3720:TYR:O	1:D:3723:MET:HB2	2.13	0.48
1:D:4189:ARG:NH1	1:D:4190:ILE:O	2.45	0.48
1:D:4673:ARG:HH22	1:D:4701:TRP:HB3	1.77	0.48
1:D:4902:GLU:O	1:D:4913:ARG:NH1	2.39	0.48
1:C:283:ARG:HA	1:C:290:TYR:HA	1.94	0.48
1:C:632:LEU:HD12	1:C:1666:THR:HG23	1.96	0.48
1:C:1619:ARG:HH21	1:C:1626:TRP:HE1	1.60	0.48
1:C:1972:ASN:HB3	1:C:1976:ARG:HH21	1.78	0.48
1:C:2480:GLY:O	1:C:2481:LYS:HG2	2.13	0.48
1:C:2715:VAL:HG13	1:C:2953:LYS:HB2	1.95	0.48
1:C:3149:GLN:HE22	1:C:3150:HIS:CE1	2.30	0.48
1:C:3313:ASN:HB2	1:C:3350:ARG:HE	1.78	0.48
1:C:3450:ASN:HA	1:C:3453:ARG:HE	1.78	0.48
1:C:4990:PHE:O	1:C:4993:MET:HG3	2.14	0.48
1:A:278:GLN:HA	1:A:328:LYS:HZ3	1.78	0.48
1:A:294:THR:N	1:A:298:GLY:O	2.35	0.48
1:A:515:TRP:HA	1:A:518:ILE:HD12	1.94	0.48
1:A:921:ASN:HA	1:A:924:MET:HG3	1.94	0.48
1:A:924:MET:O	1:A:928:THR:HG23	2.12	0.48
1:A:961:MET:N	1:A:961:MET:SD	2.86	0.48
1:A:1213:PHE:HA	1:A:1216:ILE:HD12	1.95	0.48
1:A:1681:VAL:O	1:A:1685:LEU:HG	2.12	0.48
1:A:2480:GLY:O	1:A:2481:LYS:HG2	2.13	0.48
1:A:3424:LEU:HD13	1:B:1216:ILE:HG23	1.95	0.48
1:A:3693:LYS:HZ3	1:A:3695:PRO:HA	1.78	0.48
1:A:4578:LEU:HD12	1:B:4879:MET:CG	2.39	0.48
1:A:4717:ASP:C	1:A:4718:LYS:HD3	2.38	0.48
2:H:59:TRP:O	2:H:63:VAL:HG23	2.13	0.48
1:B:935:LEU:HD22	1:B:987:ARG:CZ	2.43	0.48
1:B:1643:GLU:CD	1:B:1643:GLU:H	2.15	0.48
1:B:1695:LEU:O	1:B:1699:GLU:HG2	2.13	0.48
1:B:1839:VAL:O	1:B:1843:LYS:HG2	2.13	0.48
1:B:2358:ILE:HG13	1:B:2359:ARG:NE	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3762:ARG:HH12	1:B:4753:HIS:C	2.22	0.48
1:B:4732:PHE:HB3	1:B:4737:ILE:HD11	1.95	0.48
1:B:4755:GLU:OE1	1:B:4755:GLU:N	2.33	0.48
1:D:213:TYR:CE1	1:D:337:PRO:HB2	2.48	0.48
1:D:1040:CYS:HA	1:D:1043:VAL:HB	1.95	0.48
1:D:1227:ALA:HA	1:D:1230:MET:HG2	1.95	0.48
1:D:1608:MET:SD	1:D:1608:MET:N	2.84	0.48
1:D:2463:LEU:HB2	1:D:2510:TYR:CE1	2.48	0.48
1:D:2480:GLY:O	1:D:2481:LYS:HG2	2.13	0.48
1:D:2715:VAL:HG13	1:D:2953:LYS:HB2	1.95	0.48
1:D:2761:TYR:O	1:D:2765:LYS:HG2	2.13	0.48
1:D:3673:MET:HE1	1:D:3728:ILE:HD13	1.95	0.48
1:D:3766:GLN:HB3	1:D:3769:ARG:HH12	1.77	0.48
1:C:597:HIS:HB3	1:C:1661:ARG:HH11	1.78	0.48
1:C:1663:HIS:NE2	1:C:1711:TYR:OH	2.42	0.48
1:C:2761:TYR:O	1:C:2765:LYS:HG2	2.13	0.48
1:A:125:ARG:HH11	1:A:127:MET:HE1	1.78	0.48
1:A:456:SER:OG	1:A:458:GLU:HG3	2.14	0.48
1:A:838:HIS:ND1	1:A:1201:HIS:HB2	2.27	0.48
1:A:2283:ASN:ND2	1:A:2286:LEU:HG	2.29	0.48
1:A:2644:LEU:HA	1:A:2647:HIS:CE1	2.48	0.48
1:A:3534:MET:N	1:A:3534:MET:SD	2.86	0.48
1:A:3629:ARG:NE	1:A:3629:ARG:HA	2.27	0.48
1:A:3787:LYS:HB2	1:A:3787:LYS:HE3	1.57	0.48
1:A:4189:ARG:NH1	1:A:4190:ILE:O	2.45	0.48
1:A:4573:ILE:O	1:A:4577:LEU:HG	2.13	0.48
2:H:6:THR:HB	2:H:70:GLN:HE21	1.78	0.48
1:B:700:GLU:O	1:B:705:ASN:ND2	2.30	0.48
1:B:829:TYR:O	1:B:840:VAL:N	2.45	0.48
1:B:1227:ALA:HA	1:B:1230:MET:HG2	1.95	0.48
1:B:1574:PRO:HG2	1:B:1577:ALA:HB2	1.96	0.48
1:B:1726:SER:O	1:B:1729:SER:OG	2.24	0.48
1:B:2283:ASN:ND2	1:B:2286:LEU:HG	2.29	0.48
1:B:3014:CYS:SG	1:B:3074:SER:OG	2.59	0.48
1:B:3138:PRO:O	1:B:3141:THR:OG1	2.28	0.48
1:B:3594:ARG:O	1:B:3597:GLN:HG3	2.13	0.48
1:B:4081:VAL:HG22	1:B:4088:ILE:HD12	1.96	0.48
1:B:4578:LEU:HD12	1:C:4879:MET:CG	2.39	0.48
1:B:4717:ASP:C	1:B:4718:LYS:HD3	2.38	0.48
1:B:4933:GLN:O	1:B:4937:ILE:HG12	2.13	0.48
1:D:2272:PRO:O	1:D:2275:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2698:MET:O	1:D:2701:PRO:HD2	2.13	0.48
1:D:2742:THR:HG23	1:D:2745:VAL:HB	1.95	0.48
1:D:3534:MET:N	1:D:3534:MET:SD	2.86	0.48
1:D:4075:GLU:OE2	1:D:4075:GLU:N	2.46	0.48
1:D:4217:PHE:O	1:D:4221:VAL:HG22	2.13	0.48
1:C:213:TYR:CE1	1:C:337:PRO:HB2	2.48	0.48
1:C:456:SER:OG	1:C:458:GLU:HG3	2.14	0.48
1:C:529:LEU:HD22	1:C:536:ASN:HD21	1.79	0.48
1:C:564:LEU:O	1:C:568:LEU:HG	2.13	0.48
1:C:975:VAL:HG21	1:C:1048:GLY:HA2	1.94	0.48
1:C:2178:MET:HE1	1:C:2179:ILE:HG13	1.95	0.48
1:C:3320:LEU:O	1:C:3324:VAL:HG22	2.13	0.48
1:C:3373:VAL:HG11	1:C:3444:TYR:HB3	1.96	0.48
1:C:3805:LEU:O	1:C:3890:LEU:HD22	2.13	0.48
1:C:5019:TRP:HE3	1:C:5021:PHE:HE1	1.60	0.48
1:A:403:MET:HE1	1:A:478:PHE:CZ	2.48	0.48
1:A:891:TRP:CG	1:A:902:ARG:HH21	2.30	0.48
1:A:2698:MET:O	1:A:2701:PRO:HD2	2.13	0.48
1:A:2761:TYR:O	1:A:2765:LYS:HG2	2.13	0.48
1:A:3145:GLN:CG	1:A:3196:ARG:HE	2.25	0.48
1:A:3594:ARG:O	1:A:3597:GLN:HG3	2.13	0.48
1:A:4092:ASP:HA	1:A:4095:LYS:HE2	1.95	0.48
1:A:4732:PHE:HB3	1:A:4737:ILE:HD11	1.95	0.48
1:A:4769:MET:N	1:A:4769:MET:SD	2.86	0.48
2:F:23:VAL:HG22	2:F:45:PRO:HB2	1.94	0.48
1:B:35:LEU:HA	1:B:51:PRO:HA	1.94	0.48
1:B:322:LYS:NZ	1:B:354:GLY:O	2.41	0.48
1:B:456:SER:OG	1:B:458:GLU:HG3	2.14	0.48
1:B:731:THR:O	1:B:765:GLN:NE2	2.46	0.48
1:B:1213:PHE:HA	1:B:1216:ILE:HD12	1.95	0.48
1:B:2516:ASP:HA	1:B:2519:LEU:HD12	1.95	0.48
1:B:3320:LEU:O	1:B:3324:VAL:HG22	2.13	0.48
1:B:4047:MET:HE3	1:B:4048:LEU:HD23	1.95	0.48
1:B:4092:ASP:HA	1:B:4095:LYS:HE2	1.95	0.48
1:D:456:SER:OG	1:D:458:GLU:HG3	2.14	0.48
1:D:731:THR:O	1:D:765:GLN:NE2	2.46	0.48
1:D:921:ASN:HA	1:D:924:MET:HG3	1.94	0.48
1:D:975:VAL:HG21	1:D:1048:GLY:HA2	1.94	0.48
1:D:2283:ASN:ND2	1:D:2286:LEU:HG	2.29	0.48
1:D:2368:LEU:HG	1:D:2376:LEU:HB2	1.96	0.48
1:D:2765:LYS:HD2	1:D:2857:PRO:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3372:VAL:HG21	1:D:3401:LEU:HD21	1.94	0.48
1:D:3450:ASN:HA	1:D:3453:ARG:HE	1.78	0.48
1:D:3805:LEU:O	1:D:3890:LEU:HD22	2.13	0.48
1:D:3927:GLN:HG2	1:D:3992:PHE:CE2	2.48	0.48
1:D:4822:THR:O	1:D:4826:ILE:HG12	2.14	0.48
1:D:4843:LEU:HD13	1:C:4823:LEU:HD13	1.95	0.48
1:C:667:MET:HE3	1:C:668:VAL:N	2.28	0.48
1:C:688:LEU:HD12	1:C:689:THR:H	1.79	0.48
1:C:1106:ARG:NE	1:C:1120:LEU:HB3	2.24	0.48
1:C:1213:PHE:HA	1:C:1216:ILE:HD12	1.95	0.48
1:C:1715:LEU:HD12	1:C:1719:HIS:CD2	2.49	0.48
1:C:2886:TRP:CD1	1:C:2889:LYS:HZ2	2.31	0.48
1:C:2913:ALA:HA	1:C:2916:LYS:HG2	1.94	0.48
1:C:4162:ASN:O	1:C:4166:LEU:HG	2.14	0.48
1:C:4189:ARG:NH1	1:C:4190:ILE:O	2.45	0.48
1:A:564:LEU:O	1:A:568:LEU:HG	2.13	0.48
1:A:868:GLU:HA	1:A:871:ARG:HG3	1.94	0.48
1:A:1801:ALA:O	1:A:1802:ILE:HD13	2.13	0.48
1:A:3000:LYS:HD2	1:A:3000:LYS:H	1.79	0.48
1:A:3373:VAL:HG11	1:A:3444:TYR:HB3	1.95	0.48
1:A:3450:ASN:HA	1:A:3453:ARG:HE	1.78	0.48
1:A:3529:ASP:OD2	1:A:3595:ARG:NH1	2.47	0.48
1:A:3552:PHE:HA	1:A:3555:ASN:HD22	1.79	0.48
1:A:4047:MET:HE3	1:A:4048:LEU:HD23	1.95	0.48
2:E:82:TYR:CD2	2:E:87:HIS:HB2	2.48	0.48
1:B:108:LEU:HB2	1:B:147:TRP:CH2	2.48	0.48
1:B:819:GLU:OE1	1:B:819:GLU:N	2.42	0.48
1:B:1007:TYR:O	1:B:1017:ARG:NE	2.39	0.48
1:B:2004:GLU:HA	1:B:2007:ASN:ND2	2.29	0.48
1:B:2193:GLN:HG3	1:B:2194:HIS:CE1	2.49	0.48
1:B:3424:LEU:HD13	1:C:1216:ILE:HG23	1.96	0.48
1:B:3628:ARG:O	1:B:3628:ARG:HD3	2.13	0.48
1:B:3835:LEU:O	1:B:3838:THR:OG1	2.26	0.48
1:B:4822:THR:O	1:B:4826:ILE:HG12	2.14	0.48
1:B:4902:GLU:H	1:B:4902:GLU:CD	2.18	0.48
1:D:355:LEU:HB3	1:D:378:LEU:HD22	1.95	0.48
1:D:891:TRP:CG	1:D:902:ARG:HH21	2.30	0.48
1:D:1216:ILE:HG23	1:C:3424:LEU:HD13	1.95	0.48
1:D:1815:LEU:HD22	1:D:1845:VAL:HG21	1.95	0.48
1:D:1839:VAL:O	1:D:1843:LYS:HG2	2.13	0.48
1:D:2178:MET:HE1	1:D:2179:ILE:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2644:LEU:HA	1:D:2647:HIS:CE1	2.48	0.48
1:D:2777:TYR:HB3	1:D:2791:LEU:HD21	1.95	0.48
1:D:3313:ASN:HB2	1:D:3350:ARG:HE	1.78	0.48
1:D:3634:ALA:HA	1:D:3637:ARG:HB3	1.95	0.48
1:D:3896:ASN:O	1:D:3900:GLN:HG3	2.12	0.48
1:D:4207:MET:HE3	1:D:4207:MET:HA	1.96	0.48
1:C:2004:GLU:HA	1:C:2007:ASN:ND2	2.29	0.48
1:C:2244:ARG:HH22	1:C:3860:ASN:HD22	1.62	0.48
1:C:3141:THR:HG22	1:C:3193:CYS:HA	1.96	0.48
1:C:3513:THR:O	1:C:3517:MET:HG2	2.12	0.48
1:C:4207:MET:HA	1:C:4207:MET:HE3	1.96	0.48
1:C:4822:THR:O	1:C:4826:ILE:HG12	2.14	0.48
1:A:322:LYS:NZ	1:A:354:GLY:O	2.41	0.48
1:A:558:SER:O	1:A:562:GLU:HG2	2.13	0.48
1:A:1972:ASN:HB3	1:A:1976:ARG:HH21	1.78	0.48
1:A:2368:LEU:HG	1:A:2376:LEU:HB2	1.96	0.48
1:A:3187:ARG:NH2	1:A:3263:TYR:OH	2.38	0.48
1:A:3244:PRO:HB3	1:A:3248:ARG:HD3	1.94	0.48
1:A:4075:GLU:OE2	1:A:4075:GLU:N	2.46	0.48
1:A:4217:PHE:O	1:A:4221:VAL:HG22	2.14	0.48
1:A:4822:THR:O	1:A:4826:ILE:HG12	2.14	0.48
2:E:17:LYS:HG2	2:E:20:GLN:NE2	2.29	0.48
2:G:52:LYS:HE2	2:G:52:LYS:HA	1.95	0.48
2:F:87:HIS:HD2	2:F:88:PRO:HD2	1.78	0.48
1:B:529:LEU:HD22	1:B:536:ASN:HD21	1.79	0.48
1:B:558:SER:O	1:B:562:GLU:HG2	2.13	0.48
1:B:637:LEU:HD21	1:B:1696:HIS:ND1	2.27	0.48
1:B:893:TYR:HA	1:B:904:HIS:O	2.14	0.48
1:B:961:MET:N	1:B:961:MET:SD	2.86	0.48
1:B:1077:ALA:HB3	1:B:1189:LEU:HD22	1.94	0.48
1:B:1534:LYS:N	1:B:1534:LYS:HD3	2.29	0.48
1:B:1972:ASN:HB3	1:B:1976:ARG:HH21	1.78	0.48
1:B:2230:THR:O	1:B:2234:ARG:HG3	2.14	0.48
1:B:2368:LEU:HG	1:B:2376:LEU:HB2	1.96	0.48
1:B:3023:LYS:NZ	1:B:3024:VAL:O	2.42	0.48
1:B:3529:ASP:OD2	1:B:3595:ARG:NH1	2.47	0.48
1:B:3552:PHE:HA	1:B:3555:ASN:HD22	1.79	0.48
1:B:3927:GLN:HG2	1:B:3992:PHE:CE2	2.48	0.48
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.96	0.48
1:B:4963:ILE:HD13	1:B:5030:LYS:HZ1	1.78	0.48
1:B:5019:TRP:HE3	1:B:5021:PHE:HE1	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1253:PRO:O	1:D:1275:ARG:NH1	2.34	0.48
1:D:1514:LEU:HD21	1:D:1516:ILE:HG13	1.96	0.48
1:D:1715:LEU:HD12	1:D:1719:HIS:CD2	2.48	0.48
1:D:1759:ARG:NH1	1:D:1760:HIS:O	2.46	0.48
1:D:1972:ASN:HB3	1:D:1976:ARG:HH21	1.78	0.48
1:D:2440:MET:O	1:D:2444:GLN:HG3	2.13	0.48
1:D:2889:LYS:HD2	1:D:2890:LYS:N	2.27	0.48
1:D:3373:VAL:HG11	1:D:3444:TYR:HB3	1.96	0.48
1:D:3534:MET:O	1:D:3538:THR:HG23	2.13	0.48
1:D:4162:ASN:O	1:D:4166:LEU:HG	2.14	0.48
1:D:4717:ASP:C	1:D:4718:LYS:HD3	2.38	0.48
1:C:233:ILE:HA	1:C:245:VAL:HG12	1.95	0.48
1:C:558:SER:O	1:C:562:GLU:HG2	2.14	0.48
1:C:663:TYR:CE1	1:C:745:SER:HB2	2.44	0.48
1:C:1514:LEU:HD21	1:C:1516:ILE:HG13	1.96	0.48
1:C:1570:LYS:NZ	1:C:1571:ASN:OD1	2.45	0.48
1:C:2193:GLN:HG3	1:C:2194:HIS:CE1	2.49	0.48
1:C:2272:PRO:O	1:C:2275:VAL:HG12	2.13	0.48
1:C:3018:LEU:HB3	1:C:3025:LEU:HD12	1.96	0.48
1:C:3244:PRO:HB3	1:C:3248:ARG:HD3	1.94	0.48
1:C:3604:TYR:O	1:C:3608:GLN:HG2	2.14	0.48
1:C:4047:MET:HE3	1:C:4048:LEU:HD23	1.95	0.48
1:C:4776:GLN:HA	1:C:4779:LYS:HE2	1.95	0.48
1:A:108:LEU:HB2	1:A:147:TRP:CH2	2.48	0.48
1:A:283:ARG:HA	1:A:290:TYR:HA	1.94	0.48
1:A:597:HIS:HB3	1:A:1661:ARG:HH11	1.78	0.48
1:A:893:TYR:HA	1:A:904:HIS:O	2.14	0.48
1:A:1044:ARG:O	1:A:1044:ARG:NE	2.47	0.48
1:A:2244:ARG:HH22	1:A:3860:ASN:HD22	1.62	0.48
1:A:2272:PRO:O	1:A:2275:VAL:HG12	2.13	0.48
1:A:2440:MET:O	1:A:2444:GLN:HG3	2.13	0.48
1:A:2516:ASP:HA	1:A:2519:LEU:HD12	1.95	0.48
1:A:3628:ARG:O	1:A:3628:ARG:HD3	2.13	0.48
1:A:4677:LEU:HD12	1:A:4678:ALA:N	2.28	0.48
1:B:203:ASN:HD21	1:B:268:SER:HB2	1.79	0.48
1:B:394:GLN:OE1	1:B:397:GLU:N	2.32	0.48
1:B:403:MET:HE1	1:B:478:PHE:CZ	2.48	0.48
1:B:597:HIS:HB3	1:B:1661:ARG:HH11	1.78	0.48
1:B:688:LEU:HD12	1:B:689:THR:H	1.79	0.48
1:B:1229:ASN:OD1	1:B:1826:ALA:HA	2.12	0.48
1:B:1263:THR:N	1:B:1266:THR:O	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1715:LEU:HD12	1:B:1719:HIS:CD2	2.48	0.48
1:B:2419:GLY:O	1:B:2423:MET:HG2	2.13	0.48
1:B:2644:LEU:HA	1:B:2647:HIS:CE1	2.48	0.48
1:B:3373:VAL:HG11	1:B:3444:TYR:HB3	1.95	0.48
1:B:3379:LEU:HD11	1:B:3394:VAL:HG11	1.96	0.48
1:D:260:TRP:CE2	1:D:284:HIS:HD2	2.32	0.48
1:D:632:LEU:HD12	1:D:1666:THR:HG23	1.95	0.48
1:D:2004:GLU:HA	1:D:2007:ASN:ND2	2.29	0.48
1:D:4581:LYS:HE2	1:D:4633:GLU:HB2	1.96	0.48
1:D:4769:MET:N	1:D:4769:MET:SD	2.86	0.48
1:C:548:VAL:HA	1:C:551:LEU:HG	1.96	0.48
1:C:896:VAL:HB	1:C:901:LYS:HE2	1.95	0.48
1:C:979:PRO:O	1:C:982:THR:OG1	2.22	0.48
1:C:1007:TYR:O	1:C:1017:ARG:NE	2.39	0.48
1:C:1182:ILE:HD12	1:C:1182:ILE:H	1.79	0.48
1:C:1534:LYS:HD3	1:C:1534:LYS:N	2.29	0.48
1:C:1815:LEU:HD22	1:C:1845:VAL:HG21	1.95	0.48
1:C:2368:LEU:HG	1:C:2376:LEU:HB2	1.96	0.48
1:C:2419:GLY:O	1:C:2423:MET:HG2	2.13	0.48
1:C:2765:LYS:HD2	1:C:2857:PRO:HB3	1.95	0.48
1:C:3428:ASN:OD1	1:C:3431:ALA:N	2.45	0.48
1:C:3529:ASP:OD2	1:C:3595:ARG:NH1	2.47	0.48
1:C:3673:MET:HE1	1:C:3728:ILE:HD13	1.96	0.48
1:C:3702:VAL:O	1:C:3778:MET:HE1	2.12	0.48
1:C:3762:ARG:HH12	1:C:4753:HIS:C	2.22	0.48
1:C:4092:ASP:HA	1:C:4095:LYS:HE2	1.95	0.48
1:C:4581:LYS:HE2	1:C:4633:GLU:HB2	1.96	0.48
1:C:4682:GLU:O	1:C:4727:LYS:NZ	2.40	0.48
1:A:267:ILE:O	1:A:270:SER:OG	2.24	0.48
1:A:1182:ILE:H	1:A:1182:ILE:HD12	1.79	0.48
1:A:1457:TYR:O	1:A:1458:HIS:ND1	2.47	0.48
1:A:1514:LEU:HD21	1:A:1516:ILE:HG13	1.96	0.48
1:A:2107:GLN:HG3	1:A:3683:GLN:NE2	2.28	0.48
1:A:2178:MET:HE1	1:A:2179:ILE:HG13	1.95	0.48
1:A:2267:MET:HG3	1:A:2271:THR:HG22	1.95	0.48
1:A:2742:THR:HG23	1:A:2745:VAL:HB	1.95	0.48
1:A:3673:MET:HE1	1:A:3728:ILE:HD13	1.96	0.48
1:B:260:TRP:CE2	1:B:284:HIS:HD2	2.32	0.48
1:B:355:LEU:HB3	1:B:378:LEU:HD22	1.95	0.48
1:B:1478:ASP:OD1	1:B:1479:GLU:N	2.40	0.48
1:B:2913:ALA:HA	1:B:2916:LYS:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3171:SER:OG	1:B:3172:ILE:N	2.46	0.48
1:B:3450:ASN:HA	1:B:3453:ARG:HE	1.78	0.48
1:B:3533:ILE:HG22	1:B:3537:LYS:HZ2	1.79	0.48
1:B:3905:THR:HG23	1:B:3912:THR:HG21	1.96	0.48
1:B:4756:ARG:NH1	1:B:4757:LYS:H	2.12	0.48
1:D:108:LEU:HB2	1:D:147:TRP:CH2	2.48	0.48
1:D:667:MET:HE3	1:D:668:VAL:N	2.28	0.48
1:D:1478:ASP:OD1	1:D:1479:GLU:N	2.40	0.48
1:D:3138:PRO:O	1:D:3141:THR:OG1	2.28	0.48
1:D:3693:LYS:HZ3	1:D:3695:PRO:HA	1.78	0.48
1:C:403:MET:HE1	1:C:478:PHE:CZ	2.48	0.48
1:C:1839:VAL:O	1:C:1843:LYS:HG2	2.13	0.48
1:C:2267:MET:HG3	1:C:2271:THR:HG22	1.95	0.48
1:C:2271:THR:H	1:C:2274:ASP:HB2	1.79	0.48
1:C:2644:LEU:HA	1:C:2647:HIS:CE1	2.48	0.48
1:C:3573:MET:SD	1:C:3573:MET:N	2.87	0.48
1:C:3720:TYR:O	1:C:3723:MET:HB2	2.13	0.48
1:C:4214:LYS:HE3	1:C:4214:LYS:HB3	1.73	0.48
1:C:4732:PHE:CD2	1:C:4736:ARG:HB3	2.49	0.48
1:C:4769:MET:N	1:C:4769:MET:SD	2.86	0.48
1:C:4933:GLN:O	1:C:4937:ILE:HG12	2.13	0.48
1:A:213:TYR:CE1	1:A:337:PRO:HB2	2.48	0.48
1:A:260:TRP:CE2	1:A:284:HIS:HD2	2.32	0.48
1:A:925:SER:O	1:A:929:LEU:HG	2.14	0.48
1:A:979:PRO:O	1:A:982:THR:OG1	2.22	0.48
1:A:1227:ALA:HA	1:A:1230:MET:HG2	1.95	0.48
1:A:1726:SER:O	1:A:1729:SER:OG	2.24	0.48
1:A:1759:ARG:NH1	1:A:1760:HIS:O	2.46	0.48
1:A:1939:MET:O	1:A:1943:LEU:HG	2.14	0.48
1:A:2578:MET:HE3	1:A:2582:MET:HG3	1.96	0.48
1:A:3081:MET:C	1:A:3081:MET:HE2	2.39	0.48
1:A:3379:LEU:HD11	1:A:3394:VAL:HG11	1.96	0.48
1:A:3560:GLN:OE1	1:A:3560:GLN:N	2.30	0.48
1:A:3604:TYR:O	1:A:3608:GLN:HG2	2.14	0.48
1:A:3905:THR:HG23	1:A:3912:THR:HG21	1.96	0.48
1:A:3906:GLN:H	1:A:3912:THR:HG23	1.79	0.48
1:A:4697:VAL:HG23	1:A:4698:LYS:HD3	1.96	0.48
1:A:4933:GLN:O	1:A:4937:ILE:HG12	2.13	0.48
2:E:27:THR:HA	2:E:38:SER:HA	1.94	0.48
1:B:515:TRP:HA	1:B:518:ILE:HD12	1.95	0.48
1:B:632:LEU:HD12	1:B:1666:THR:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.95	0.48
1:B:2175:GLU:CB	1:B:2228:MET:HE1	2.34	0.48
1:B:2271:THR:H	1:B:2274:ASP:HB2	1.79	0.48
1:B:3018:LEU:HB3	1:B:3025:LEU:HD12	1.96	0.48
1:B:4769:MET:SD	1:B:4769:MET:N	2.86	0.48
1:D:803:LEU:HD12	1:D:804:PRO:O	2.12	0.48
1:D:893:TYR:HA	1:D:904:HIS:O	2.14	0.48
1:D:1457:TYR:O	1:D:1458:HIS:ND1	2.47	0.48
1:D:1574:PRO:HG2	1:D:1577:ALA:HB2	1.96	0.48
1:D:2417:HIS:HB2	1:D:2492:ALA:HA	1.96	0.48
1:D:2423:MET:CE	1:D:2494:PHE:HA	2.29	0.48
1:D:2797:PHE:HE1	1:D:2802:LYS:HG2	1.78	0.48
1:D:3081:MET:C	1:D:3081:MET:HE2	2.39	0.48
1:D:3533:ILE:HG22	1:D:3537:LYS:NZ	2.29	0.48
1:D:3628:ARG:O	1:D:3628:ARG:HD3	2.13	0.48
1:C:1093:GLU:N	1:C:1201:HIS:O	2.35	0.48
1:C:1727:ARG:HA	1:C:1730:MET:HE3	1.96	0.48
1:C:3545:THR:OG1	1:C:3547:GLU:OE1	2.21	0.48
1:C:4217:PHE:O	1:C:4221:VAL:HG22	2.13	0.48
1:C:4756:ARG:NH1	1:C:4757:LYS:H	2.12	0.48
1:A:103:TYR:OH	1:A:167:ASP:OD2	2.30	0.48
1:A:462:GLU:H	1:A:462:GLU:CD	2.18	0.48
1:A:529:LEU:HD22	1:A:536:ASN:HD21	1.79	0.48
1:A:588:SER:HB2	1:A:1582:SER:HB3	1.96	0.48
1:A:2760:GLU:HG2	1:A:2797:PHE:CE2	2.49	0.48
1:A:3018:LEU:HB3	1:A:3025:LEU:HD12	1.96	0.48
1:A:3320:LEU:O	1:A:3324:VAL:HG22	2.13	0.48
1:A:3812:VAL:O	1:A:3816:MET:HG2	2.14	0.48
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.29	0.48
2:G:24:VAL:HG12	2:G:103:LEU:HA	1.95	0.48
2:F:25:HIS:HB3	2:F:40:ARG:HE	1.79	0.48
1:B:588:SER:HB2	1:B:1582:SER:HB3	1.96	0.48
1:B:925:SER:O	1:B:929:LEU:HG	2.14	0.48
1:B:1514:LEU:HD21	1:B:1516:ILE:HG13	1.96	0.48
1:B:1608:MET:SD	1:B:1608:MET:N	2.84	0.48
1:B:2765:LYS:HD2	1:B:2857:PRO:HB3	1.95	0.48
1:B:2777:TYR:HB3	1:B:2791:LEU:HD21	1.95	0.48
1:B:2797:PHE:HE1	1:B:2802:LYS:HG2	1.78	0.48
1:B:2874:MET:HE3	1:B:2937:VAL:HG22	1.95	0.48
1:B:3361:THR:O	1:B:3365:LEU:HD23	2.14	0.48
1:B:4776:GLN:HA	1:B:4779:LYS:HE2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:67:PHE:CE2	1:D:111:HIS:HB2	2.49	0.48
1:D:103:TYR:OH	1:D:167:ASP:OD2	2.30	0.48
1:D:283:ARG:NH1	1:D:284:HIS:O	2.47	0.48
1:D:294:THR:N	1:D:298:GLY:O	2.35	0.48
1:D:896:VAL:HB	1:D:901:LYS:HE2	1.95	0.48
1:D:1463:ASN:OD1	1:D:1463:ASN:N	2.47	0.48
1:D:1596:GLU:OE1	1:D:1597:VAL:N	2.46	0.48
1:D:2874:MET:HE3	1:D:2937:VAL:HG22	1.96	0.48
1:D:3000:LYS:HD2	1:D:3000:LYS:H	1.79	0.48
1:D:3320:LEU:O	1:D:3324:VAL:HG22	2.13	0.48
1:D:3906:GLN:H	1:D:3912:THR:HG23	1.79	0.48
1:D:4047:MET:HE3	1:D:4048:LEU:HD23	1.95	0.48
1:C:203:ASN:HD21	1:C:268:SER:HB2	1.79	0.48
1:C:1574:PRO:HG2	1:C:1577:ALA:HB2	1.96	0.48
1:C:1690:ASP:CG	1:C:1693:GLN:H	2.22	0.48
1:C:1726:SER:O	1:C:1729:SER:OG	2.24	0.48
1:C:2226:PRO:HB2	1:C:2268[B]:GLN:HE21	1.79	0.48
1:C:2950:SER:HA	1:C:2953:LYS:HE2	1.95	0.48
1:C:3372:VAL:HG21	1:C:3401:LEU:HD21	1.94	0.48
1:C:3693:LYS:HZ3	1:C:3695:PRO:HA	1.78	0.48
1:C:3707:ARG:O	1:C:3711:THR:OG1	2.27	0.48
1:C:3841:VAL:C	1:C:3875:MET:HE1	2.39	0.48
1:A:688:LEU:HD12	1:A:689:THR:H	1.79	0.47
1:A:819:GLU:OE1	1:A:819:GLU:N	2.42	0.47
1:A:1534:LYS:HD3	1:A:1534:LYS:N	2.29	0.47
1:A:1574:PRO:HG2	1:A:1577:ALA:HB2	1.96	0.47
1:A:1839:VAL:O	1:A:1843:LYS:HG2	2.13	0.47
1:A:2189:LYS:HA	1:A:2192:TYR:CD2	2.49	0.47
1:A:2765:LYS:HD2	1:A:2857:PRO:HB3	1.95	0.47
1:A:2913:ALA:HA	1:A:2916:LYS:HG2	1.94	0.47
1:A:3535:LEU:O	1:A:3538:THR:OG1	2.30	0.47
1:A:3720:TYR:O	1:A:3723:MET:HB2	2.13	0.47
1:A:3927:GLN:HG2	1:A:3992:PHE:CE2	2.48	0.47
1:A:4902:GLU:O	1:A:4913:ARG:NH1	2.39	0.47
1:A:4990:PHE:O	1:A:4993:MET:HG3	2.14	0.47
2:H:29:MET:N	2:H:29:MET:HE3	2.29	0.47
2:F:8:SER:OG	2:F:71:ARG:HB3	2.13	0.47
1:B:157:ARG:HD3	1:B:157:ARG:HA	1.67	0.47
1:B:1215:ALA:HA	1:B:1219:LEU:HD22	1.96	0.47
1:B:2244:ARG:HH22	1:B:3860:ASN:HD22	1.62	0.47
1:B:2267:MET:HG3	1:B:2271:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2272:PRO:O	1:B:2275:VAL:HG12	2.13	0.47
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.14	0.47
1:B:3634:ALA:HA	1:B:3637:ARG:HB3	1.95	0.47
1:B:3693:LYS:HZ3	1:B:3695:PRO:HA	1.78	0.47
1:B:3841:VAL:C	1:B:3875:MET:HE1	2.39	0.47
1:B:4217:PHE:O	1:B:4221:VAL:HG22	2.14	0.47
1:D:529:LEU:HD22	1:D:536:ASN:HD21	1.79	0.47
1:D:558:SER:O	1:D:562:GLU:HG2	2.13	0.47
1:D:688:LEU:HD12	1:D:689:THR:H	1.79	0.47
1:D:1619:ARG:HH21	1:D:1626:TRP:HE1	1.60	0.47
1:D:1682:ALA:HA	1:D:1685:LEU:HD12	1.96	0.47
1:D:2230:THR:O	1:D:2234:ARG:HG3	2.14	0.47
1:D:3189:ALA:O	1:D:3192:GLU:HG3	2.14	0.47
1:D:3361:THR:O	1:D:3365:LEU:HD23	2.14	0.47
1:D:3552:PHE:HA	1:D:3555:ASN:HD22	1.79	0.47
1:D:3604:TYR:O	1:D:3608:GLN:HG2	2.14	0.47
1:D:3905:THR:HG23	1:D:3912:THR:HG21	1.96	0.47
1:D:4756:ARG:NH1	1:D:4757:LYS:H	2.12	0.47
1:C:283:ARG:NH1	1:C:284:HIS:O	2.47	0.47
1:C:995:VAL:HG22	1:C:998:ARG:NH2	2.29	0.47
1:C:1040:CYS:HA	1:C:1043:VAL:HB	1.95	0.47
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	1.94	0.47
1:C:2742:THR:HG23	1:C:2745:VAL:HB	1.95	0.47
1:C:3552:PHE:HA	1:C:3555:ASN:HD22	1.78	0.47
1:C:3812:VAL:O	1:C:3816:MET:HG2	2.14	0.47
1:C:3905:THR:HG23	1:C:3912:THR:HG21	1.96	0.47
1:C:4081:VAL:HG22	1:C:4088:ILE:HD12	1.95	0.47
1:C:4725:LEU:HA	1:C:4737:ILE:HG21	1.96	0.47
1:A:667:MET:HE3	1:A:668:VAL:N	2.28	0.47
1:A:935:LEU:HD22	1:A:987:ARG:CZ	2.43	0.47
1:A:1619:ARG:HH21	1:A:1626:TRP:HE1	1.60	0.47
1:A:1815:LEU:HD22	1:A:1845:VAL:HG21	1.95	0.47
1:A:2175:GLU:CB	1:A:2228:MET:HE1	2.34	0.47
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.14	0.47
1:A:2439:GLU:O	1:A:2443:ILE:HG12	2.14	0.47
1:A:3215:ALA:O	1:A:3220:THR:OG1	2.25	0.47
1:A:3396:ASP:O	1:A:3400:VAL:HG13	2.14	0.47
2:H:105:LYS:HZ3	2:H:106:LEU:H	1.60	0.47
1:B:170:ILE:HG13	1:B:179:TYR:CD1	2.49	0.47
1:B:548:VAL:HA	1:B:551:LEU:HG	1.96	0.47
1:B:1543:GLU:O	1:B:1546:THR:OG1	2.19	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1727:ARG:O	1:B:1731:LEU:HG	2.14	0.47
1:B:1838:PHE:O	1:B:1842:LEU:HD12	2.14	0.47
1:B:2178:MET:HE1	1:B:2179:ILE:HG13	1.95	0.47
1:B:2351:ASN:O	1:B:2355:ARG:HG2	2.15	0.47
1:B:3573:MET:SD	1:B:3573:MET:N	2.87	0.47
1:B:3604:TYR:O	1:B:3608:GLN:HG2	2.14	0.47
1:B:3920:VAL:O	1:B:3924:LEU:HG	2.14	0.47
1:B:4162:ASN:O	1:B:4166:LEU:HG	2.14	0.47
1:B:4662:ASN:O	1:B:4666:VAL:HB	2.14	0.47
1:B:4990:PHE:O	1:B:4993:MET:HG3	2.14	0.47
1:D:548:VAL:HA	1:D:551:LEU:HG	1.96	0.47
1:D:1007:TYR:CE1	1:D:1019:PRO:HA	2.49	0.47
1:D:1077:ALA:HB3	1:D:1189:LEU:HD22	1.94	0.47
1:D:1440:PHE:CZ	1:D:1563:GLN:HB2	2.49	0.47
1:D:1690:ASP:CG	1:D:1693:GLN:H	2.22	0.47
1:D:1838:PHE:O	1:D:1842:LEU:HD12	2.14	0.47
1:D:2909:ASP:OD1	1:D:2909:ASP:N	2.46	0.47
1:D:3141:THR:HG22	1:D:3193:CYS:HA	1.96	0.47
1:D:3379:LEU:HD11	1:D:3394:VAL:HG11	1.96	0.47
1:D:3573:MET:SD	1:D:3573:MET:N	2.87	0.47
1:D:4990:PHE:O	1:D:4993:MET:HG3	2.13	0.47
1:C:1215:ALA:HA	1:C:1219:LEU:HD22	1.96	0.47
1:C:1682:ALA:HA	1:C:1685:LEU:HD12	1.96	0.47
1:C:2230:THR:O	1:C:2234:ARG:HG3	2.14	0.47
1:C:2417:HIS:HB2	1:C:2492:ALA:HA	1.96	0.47
1:C:2559:LEU:HB2	1:C:2560:PRO:HD3	1.96	0.47
1:C:2797:PHE:HE1	1:C:2802:LYS:HG2	1.79	0.47
1:C:3249:LEU:O	1:C:3253:ILE:HG12	2.14	0.47
1:C:3396:ASP:O	1:C:3400:VAL:HG13	2.14	0.47
1:C:3594:ARG:O	1:C:3597:GLN:HG3	2.13	0.47
1:C:3920:VAL:O	1:C:3924:LEU:HG	2.14	0.47
1:A:175:SER:HA	1:D:2452:ARG:HH11	1.78	0.47
1:A:292:ALA:HB2	1:A:312:THR:HG23	1.97	0.47
1:A:1119:GLU:OE2	1:A:1119:GLU:N	2.47	0.47
1:A:1601:MET:CE	1:A:1604:SER:HB3	2.44	0.47
1:A:2271:THR:H	1:A:2274:ASP:HB2	1.79	0.47
1:A:3534:MET:O	1:A:3538:THR:HG23	2.13	0.47
1:A:3670:GLU:HG2	1:A:3728:ILE:HG12	1.96	0.47
1:A:4725:LEU:HA	1:A:4737:ILE:HG21	1.96	0.47
1:A:4756:ARG:NH1	1:A:4757:LYS:H	2.12	0.47
2:G:82:TYR:CD2	2:G:87:HIS:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:ARG:HH11	1:B:127:MET:HE1	1.78	0.47
1:B:877:ASN:O	1:B:880:GLU:HG3	2.15	0.47
1:B:904:HIS:CD2	1:B:906:CYS:HG	2.26	0.47
1:B:995:VAL:HG22	1:B:998:ARG:NH2	2.29	0.47
1:B:1182:ILE:H	1:B:1182:ILE:HD12	1.79	0.47
1:B:1682:ALA:HA	1:B:1685:LEU:HD12	1.96	0.47
1:B:2495:VAL:HG22	1:B:2498:HIS:ND1	2.29	0.47
1:B:3081:MET:C	1:B:3081:MET:HE2	2.39	0.47
1:B:3522:LEU:HD22	1:C:1220:GLN:OE1	2.14	0.47
1:B:3533:ILE:HG22	1:B:3537:LYS:NZ	2.29	0.47
1:B:3534:MET:O	1:B:3538:THR:HG23	2.13	0.47
1:B:3983:SER:OG	1:B:3985:LEU:HG	2.14	0.47
1:B:4207:MET:HA	1:B:4207:MET:HE3	1.96	0.47
1:B:4732:PHE:CD2	1:B:4736:ARG:HB3	2.49	0.47
1:D:233:ILE:HA	1:D:245:VAL:HG12	1.95	0.47
1:D:257:ARG:O	1:D:284:HIS:NE2	2.35	0.47
1:D:1182:ILE:H	1:D:1182:ILE:HD12	1.79	0.47
1:D:1727:ARG:HA	1:D:1730:MET:HE3	1.96	0.47
1:D:2157:GLU:O	1:D:2161:GLN:HG2	2.14	0.47
1:D:2226:PRO:HB2	1:D:2268[B]:GLN:HE21	1.79	0.47
1:D:2439:GLU:O	1:D:2443:ILE:HG12	2.14	0.47
1:D:3249:LEU:O	1:D:3253:ILE:HG12	2.14	0.47
1:D:3812:VAL:O	1:D:3816:MET:HG2	2.14	0.47
1:C:355:LEU:HB3	1:C:378:LEU:HD22	1.95	0.47
1:C:961:MET:SD	1:C:961:MET:N	2.86	0.47
1:C:1440:PHE:CZ	1:C:1563:GLN:HB2	2.49	0.47
1:C:1727:ARG:O	1:C:1731:LEU:HG	2.14	0.47
1:C:1939:MET:O	1:C:1943:LEU:HG	2.14	0.47
1:C:2463:LEU:HB2	1:C:2510:TYR:CE1	2.48	0.47
1:C:3189:ALA:O	1:C:3192:GLU:HG3	2.14	0.47
1:C:3361:THR:O	1:C:3365:LEU:HD23	2.14	0.47
1:C:3498:ARG:HB3	1:C:3499:ARG:H	1.51	0.47
1:C:3628:ARG:O	1:C:3628:ARG:HD3	2.13	0.47
1:C:3634:ALA:HA	1:C:3637:ARG:HB3	1.95	0.47
1:A:1255:TYR:HD1	1:A:1272:LEU:HD11	1.80	0.47
1:A:1463:ASN:OD1	1:A:1463:ASN:N	2.47	0.47
1:A:1727:ARG:O	1:A:1731:LEU:HG	2.14	0.47
1:A:2004:GLU:HA	1:A:2007:ASN:ND2	2.29	0.47
1:A:2495:VAL:HG22	1:A:2498:HIS:ND1	2.29	0.47
1:A:3145:GLN:HA	1:A:3196:ARG:HH21	1.80	0.47
1:A:3189:ALA:O	1:A:3192:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3361:THR:O	1:A:3365:LEU:HD23	2.14	0.47
1:A:3762:ARG:HH12	1:A:4753:HIS:C	2.22	0.47
1:A:4162:ASN:O	1:A:4166:LEU:HG	2.14	0.47
2:E:24:VAL:O	2:E:46:PHE:N	2.44	0.47
2:H:18:ARG:HH11	2:H:19:GLY:N	2.12	0.47
2:F:25:HIS:CG	2:F:40:ARG:HE	2.32	0.47
1:B:1007:TYR:CE1	1:B:1019:PRO:HA	2.49	0.47
1:B:1255:TYR:HD1	1:B:1272:LEU:HD11	1.80	0.47
1:B:2417:HIS:HB2	1:B:2492:ALA:HA	1.96	0.47
1:B:2547:ALA:HA	1:B:2550:LEU:HD23	1.96	0.47
1:B:2952:GLU:O	1:B:2957:PHE:HB3	2.15	0.47
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.15	0.47
1:B:4902:GLU:OE2	1:B:4902:GLU:N	2.26	0.47
1:D:403:MET:HE1	1:D:478:PHE:CZ	2.48	0.47
1:D:961:MET:N	1:D:961:MET:SD	2.86	0.47
1:D:1534:LYS:HD3	1:D:1534:LYS:N	2.29	0.47
1:D:2267:MET:HG3	1:D:2271:THR:HG22	1.95	0.47
1:D:2462:PRO:HB2	1:D:2465:ASP:HB2	1.97	0.47
1:D:2499:LYS:HA	1:D:2502:MET:HG2	1.96	0.47
1:D:2760:GLU:HG2	1:D:2797:PHE:CE2	2.49	0.47
1:D:3018:LEU:HB3	1:D:3025:LEU:HD12	1.96	0.47
1:D:3145:GLN:HA	1:D:3196:ARG:HH21	1.80	0.47
1:D:3920:VAL:O	1:D:3924:LEU:HG	2.14	0.47
1:D:4081:VAL:HG22	1:D:4088:ILE:HD12	1.96	0.47
1:D:4843:LEU:HD22	1:C:4823:LEU:HD13	1.97	0.47
1:C:108:LEU:HB2	1:C:147:TRP:CH2	2.48	0.47
1:C:588:SER:HB2	1:C:1582:SER:HB3	1.96	0.47
1:C:3504:SER:O	1:C:3508:SER:N	2.48	0.47
1:C:3670:GLU:HG2	1:C:3728:ILE:HG12	1.96	0.47
1:C:4677:LEU:HD12	1:C:4678:ALA:N	2.28	0.47
1:A:663:TYR:CE1	1:A:745:SER:HB2	2.44	0.47
1:A:1215:ALA:HA	1:A:1219:LEU:HD22	1.96	0.47
1:A:1254:HIS:HB3	1:A:1274:HIS:HE1	1.80	0.47
1:A:1422:ASP:N	1:A:1422:ASP:OD1	2.43	0.47
1:A:1838:PHE:O	1:A:1842:LEU:HD12	2.14	0.47
1:A:2230:THR:O	1:A:2234:ARG:HG3	2.14	0.47
1:A:2462:PRO:HB2	1:A:2465:ASP:HB2	1.97	0.47
1:A:2950:SER:HA	1:A:2953:LYS:HE2	1.96	0.47
1:A:3398:PHE:HA	1:A:3401:LEU:HG	1.97	0.47
1:A:3533:ILE:HG22	1:A:3537:LYS:NZ	2.29	0.47
1:A:3573:MET:SD	1:A:3573:MET:N	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3634:ALA:HA	1:A:3637:ARG:HB3	1.95	0.47
1:A:3997:ALA:HA	1:A:4000:MET:SD	2.55	0.47
1:A:4662:ASN:O	1:A:4666:VAL:HB	2.14	0.47
2:E:23:VAL:HG12	2:E:105:LYS:O	2.14	0.47
2:H:82:TYR:CD2	2:H:87:HIS:HB2	2.49	0.47
2:F:7:ILE:HD12	2:F:72:ALA:HA	1.95	0.47
1:B:11:VAL:HG11	1:B:164:ARG:HB3	1.96	0.47
1:B:1463:ASN:N	1:B:1463:ASN:OD1	2.47	0.47
1:B:2157:GLU:O	1:B:2161:GLN:HG2	2.14	0.47
1:B:2189:LYS:HA	1:B:2192:TYR:CD2	2.49	0.47
1:B:2760:GLU:HG2	1:B:2797:PHE:CE2	2.49	0.47
1:B:3532:LEU:HD23	1:B:3533:ILE:HD13	1.96	0.47
1:D:170:ILE:HG13	1:D:179:TYR:CD1	2.49	0.47
1:D:210:GLU:OE2	1:D:273:HIS:NE2	2.48	0.47
1:D:214:VAL:HG22	1:D:339:ILE:HB	1.97	0.47
1:D:887:ILE:HG23	1:D:888:GLU:OE1	2.15	0.47
1:D:1141:ARG:NH1	1:C:3478:MET:HE3	2.20	0.47
1:D:1215:ALA:HA	1:D:1219:LEU:HD22	1.96	0.47
1:D:1939:MET:O	1:D:1943:LEU:HG	2.14	0.47
1:D:2193:GLN:HG3	1:D:2194:HIS:CE1	2.49	0.47
1:D:2883:HIS:CE1	1:D:2905:LEU:HD22	2.48	0.47
1:D:2966:TRP:HB3	1:D:2998:PHE:HE2	1.79	0.47
1:D:3398:PHE:HA	1:D:3401:LEU:HG	1.97	0.47
1:D:3428:ASN:OD1	1:D:3431:ALA:N	2.45	0.47
1:D:4715:TYR:HE2	1:D:4717:ASP:HB3	1.79	0.47
1:D:4788:SER:O	1:D:4792:LEU:HG	2.15	0.47
1:C:639:ASN:N	1:C:678:GLN:OE1	2.40	0.47
1:C:1254:HIS:HB3	1:C:1274:HIS:HE1	1.80	0.47
1:C:1596:GLU:OE1	1:C:1597:VAL:N	2.46	0.47
1:C:2777:TYR:HB3	1:C:2791:LEU:HD21	1.95	0.47
1:C:3906:GLN:H	1:C:3912:THR:HG23	1.79	0.47
1:C:4555:LEU:HD21	1:C:4659:ILE:HG23	1.94	0.47
1:A:2496:PRO:HB3	1:A:2553:TYR:CZ	2.50	0.47
1:A:3249:LEU:O	1:A:3253:ILE:HG12	2.14	0.47
1:A:4207:MET:HA	1:A:4207:MET:HE3	1.96	0.47
2:E:8:SER:O	2:E:70:GLN:HG3	2.14	0.47
2:F:59:TRP:O	2:F:63:VAL:HG23	2.15	0.47
2:F:93:PRO:O	2:F:94:HIS:ND1	2.48	0.47
1:B:67:PHE:CE2	1:B:111:HIS:HB2	2.49	0.47
1:B:321:GLU:N	1:B:321:GLU:OE2	2.44	0.47
1:B:515:TRP:O	1:B:519:VAL:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:830:ARG:HD3	1:B:1612:PHE:CE1	2.50	0.47
1:B:1440:PHE:CZ	1:B:1563:GLN:HB2	2.49	0.47
1:B:1690:ASP:CG	1:B:1693:GLN:H	2.22	0.47
1:B:2226:PRO:HB2	1:B:2268[B]:GLN:HE21	1.79	0.47
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.14	0.47
1:B:2527:LEU:N	1:B:2528:PRO:HD2	2.30	0.47
1:B:3141:THR:HG22	1:B:3193:CYS:HA	1.96	0.47
1:B:3172:ILE:HA	1:B:3175:LEU:HD12	1.97	0.47
1:B:3396:ASP:O	1:B:3400:VAL:HG13	2.14	0.47
1:B:3673:MET:HE1	1:B:3728:ILE:HD13	1.96	0.47
1:D:11:VAL:HG11	1:D:164:ARG:HB3	1.96	0.47
1:D:183:SER:OG	1:D:186:SER:OG	2.32	0.47
1:D:2527:LEU:N	1:D:2528:PRO:HD2	2.30	0.47
1:D:3594:ARG:O	1:D:3597:GLN:HG3	2.13	0.47
1:D:3762:ARG:HH12	1:D:4753:HIS:C	2.22	0.47
1:D:4732:PHE:CD2	1:D:4736:ARG:HB3	2.49	0.47
1:D:4975:PHE:O	1:D:4979:THR:HG23	2.15	0.47
1:C:260:TRP:CE2	1:C:284:HIS:HD2	2.32	0.47
1:C:349:GLN:HE22	1:C:355:LEU:C	2.23	0.47
1:C:1255:TYR:HD1	1:C:1272:LEU:HD11	1.80	0.47
1:C:1838:PHE:O	1:C:1842:LEU:HD12	2.14	0.47
1:C:2287:ALA:HB1	1:C:2346:VAL:HG21	1.96	0.47
1:C:2423:MET:CE	1:C:2494:PHE:HA	2.29	0.47
1:C:2476:ILE:HD11	1:C:2541:PHE:HE2	1.80	0.47
1:C:3145:GLN:CG	1:C:3196:ARG:HE	2.25	0.47
1:C:3533:ILE:HG22	1:C:3537:LYS:NZ	2.29	0.47
1:C:3835:LEU:O	1:C:3838:THR:OG1	2.26	0.47
1:C:3950:ASN:HA	1:C:3953:LYS:HD3	1.97	0.47
1:A:210:GLU:OE2	1:A:273:HIS:NE2	2.48	0.47
1:A:214:VAL:HG22	1:A:339:ILE:HB	1.97	0.47
1:A:283:ARG:NH1	1:A:284:HIS:O	2.47	0.47
1:A:534:ARG:HD2	1:A:570:GLU:OE1	2.15	0.47
1:A:575:LEU:O	1:A:578:ILE:HG22	2.15	0.47
1:A:632:LEU:HD12	1:A:1666:THR:HG23	1.95	0.47
1:A:887:ILE:HG23	1:A:888:GLU:OE1	2.15	0.47
1:A:896:VAL:HB	1:A:901:LYS:HE2	1.95	0.47
1:A:1076:ARG:HB3	1:A:1191:VAL:HG23	1.97	0.47
1:A:1493:TYR:HB3	1:A:1540:PHE:CE2	2.50	0.47
1:A:1715:LEU:HD12	1:A:1719:HIS:CD2	2.48	0.47
1:A:1805:GLU:H	1:A:1805:GLU:CD	2.14	0.47
1:A:2031:LEU:HD12	1:A:2032:GLN:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2157:GLU:O	1:A:2161:GLN:HG2	2.14	0.47
1:A:2193:GLN:HG3	1:A:2194:HIS:CE1	2.49	0.47
1:A:2417:HIS:HB2	1:A:2492:ALA:HA	1.96	0.47
1:A:2490:MET:HE3	1:A:2493:SER:OG	2.15	0.47
1:A:2522:LEU:C	1:A:2527:LEU:HG	2.40	0.47
1:A:2797:PHE:HE1	1:A:2802:LYS:HG2	1.78	0.47
1:A:2874:MET:HE3	1:A:2937:VAL:HG22	1.96	0.47
1:A:2966:TRP:HB3	1:A:2998:PHE:HE2	1.79	0.47
1:A:3051:ARG:O	1:A:3053:ARG:NH2	2.45	0.47
1:A:3841:VAL:C	1:A:3875:MET:HE1	2.39	0.47
1:A:3983:SER:OG	1:A:3985:LEU:HG	2.14	0.47
1:A:4077:PHE:O	1:A:4081:VAL:HG23	2.15	0.47
1:A:4581:LYS:HE2	1:A:4633:GLU:HB2	1.96	0.47
1:A:4642:ALA:O	1:A:4646:LEU:HD23	2.15	0.47
1:B:534:ARG:HD2	1:B:570:GLU:OE1	2.15	0.47
1:B:661:LYS:HD2	1:B:808:TYR:CZ	2.50	0.47
1:B:887:ILE:HG23	1:B:888:GLU:OE1	2.15	0.47
1:B:1450:VAL:HA	1:B:1552:VAL:HG22	1.97	0.47
1:B:1805:GLU:H	1:B:1805:GLU:CD	2.14	0.47
1:B:2490:MET:HE3	1:B:2493:SER:OG	2.15	0.47
1:B:2496:PRO:HB3	1:B:2553:TYR:CZ	2.50	0.47
1:B:2522:LEU:C	1:B:2527:LEU:HG	2.40	0.47
1:B:2559:LEU:HB2	1:B:2560:PRO:HD3	1.96	0.47
1:B:2578:MET:HE3	1:B:2582:MET:HG3	1.96	0.47
1:B:2909:ASP:N	1:B:2909:ASP:OD1	2.46	0.47
1:B:3720:TYR:O	1:B:3723:MET:HB2	2.13	0.47
1:B:4085:ARG:NH2	1:B:4122:MET:HG3	2.30	0.47
1:B:4214:LYS:HE3	1:B:4214:LYS:HB3	1.73	0.47
1:B:4249:ALA:O	1:B:4252:SER:OG	2.28	0.47
1:B:4581:LYS:HE2	1:B:4633:GLU:HB2	1.96	0.47
1:D:29:LEU:HD12	1:D:31:GLU:HB3	1.97	0.47
1:D:283:ARG:HA	1:D:290:TYR:HA	1.94	0.47
1:D:534:ARG:HD2	1:D:570:GLU:OE1	2.15	0.47
1:D:2271:THR:H	1:D:2274:ASP:HB2	1.79	0.47
1:D:2490:MET:HE3	1:D:2493:SER:OG	2.15	0.47
1:D:2496:PRO:HB3	1:D:2553:TYR:CZ	2.50	0.47
1:D:2559:LEU:HB2	1:D:2560:PRO:HD3	1.96	0.47
1:D:2578:MET:HE3	1:D:2582:MET:HG3	1.96	0.47
1:D:2950:SER:HA	1:D:2953:LYS:HE2	1.96	0.47
1:D:3023:LYS:HD2	1:D:3023:LYS:C	2.40	0.47
1:D:3245:VAL:HG22	1:D:3246:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3433:GLU:OE2	1:D:3436:ARG:NE	2.36	0.47
1:D:3504:SER:O	1:D:3508:SER:N	2.48	0.47
1:D:3529:ASP:OD2	1:D:3595:ARG:NH1	2.47	0.47
1:D:3589:PRO:HA	1:D:3592:ILE:HG22	1.97	0.47
1:D:3670:GLU:HG2	1:D:3728:ILE:HG12	1.96	0.47
1:D:3841:VAL:C	1:D:3875:MET:HE1	2.39	0.47
1:D:4031:LEU:HG	1:D:4044:MET:HG3	1.96	0.47
1:D:4697:VAL:HG23	1:D:4698:LYS:HD3	1.96	0.47
1:C:210:GLU:OE2	1:C:273:HIS:NE2	2.48	0.47
1:C:579:GLN:O	1:C:583:ILE:HG13	2.15	0.47
1:C:714:TYR:HB3	1:C:768:PHE:HE2	1.80	0.47
1:C:877:ASN:O	1:C:880:GLU:HG3	2.15	0.47
1:C:1044:ARG:O	1:C:1044:ARG:NE	2.47	0.47
1:C:2189:LYS:HA	1:C:2192:TYR:CD2	2.49	0.47
1:C:2439:GLU:O	1:C:2443:ILE:HG12	2.14	0.47
1:C:2462:PRO:HB2	1:C:2465:ASP:HB2	1.96	0.47
1:C:2603:ILE:O	1:C:2607:LEU:HG	2.15	0.47
1:C:3000:LYS:HD2	1:C:3000:LYS:H	1.79	0.47
1:C:3349:ALA:HA	1:C:3350:ARG:NH2	2.30	0.47
1:C:3379:LEU:HD11	1:C:3394:VAL:HG11	1.96	0.47
1:C:4642:ALA:O	1:C:4646:LEU:HD23	2.15	0.47
1:C:4846:VAL:O	1:C:4850:LEU:HG	2.15	0.47
1:A:203:ASN:HD21	1:A:268:SER:HB2	1.78	0.47
1:A:515:TRP:O	1:A:519:VAL:HG22	2.15	0.47
1:A:1007:TYR:CE1	1:A:1019:PRO:HA	2.49	0.47
1:A:1440:PHE:CZ	1:A:1563:GLN:HB2	2.49	0.47
1:A:1810:LYS:HB2	1:A:1810:LYS:HE3	1.69	0.47
1:A:2476:ILE:HD11	1:A:2541:PHE:HE2	1.80	0.47
1:A:2603:ILE:O	1:A:2607:LEU:HG	2.15	0.47
1:A:2777:TYR:HB3	1:A:2791:LEU:HD21	1.95	0.47
1:A:4975:PHE:O	1:A:4979:THR:HG23	2.15	0.47
2:G:66:MET:HG2	2:G:72:ALA:HB2	1.97	0.47
1:B:210:GLU:OE2	1:B:273:HIS:NE2	2.48	0.47
1:B:575:LEU:O	1:B:578:ILE:HG22	2.15	0.47
1:B:637:LEU:HD21	1:B:1696:HIS:CE1	2.50	0.47
1:B:714:TYR:HB3	1:B:768:PHE:HE2	1.80	0.47
1:B:1254:HIS:HB3	1:B:1274:HIS:HE1	1.80	0.47
1:B:1739:THR:HB	1:B:1742:THR:H	1.80	0.47
1:B:2243:SER:OG	1:B:2245:GLN:OE1	2.18	0.47
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.80	0.47
1:B:3522:LEU:HB3	1:C:1220:GLN:CD	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3811:GLU:O	1:B:3815:LYS:HG3	2.15	0.47
1:D:349:GLN:HE22	1:D:355:LEU:C	2.23	0.47
1:D:579:GLN:O	1:D:583:ILE:HG13	2.15	0.47
1:D:588:SER:HB2	1:D:1582:SER:HB3	1.96	0.47
1:D:979:PRO:O	1:D:982:THR:OG1	2.22	0.47
1:D:1601:MET:CE	1:D:1604:SER:HB3	2.44	0.47
1:D:1660:GLN:O	1:D:1660:GLN:NE2	2.48	0.47
1:D:2189:LYS:HA	1:D:2192:TYR:CD2	2.49	0.47
1:D:2347:GLU:OE2	1:D:2347:GLU:N	2.33	0.47
1:D:2495:VAL:HG22	1:D:2498:HIS:ND1	2.29	0.47
1:D:3145:GLN:CG	1:D:3196:ARG:HE	2.25	0.47
1:D:3344:PRO:O	1:D:3347:SER:OG	2.23	0.47
1:D:3997:ALA:HA	1:D:4000:MET:SD	2.55	0.47
1:C:67:PHE:CE2	1:C:111:HIS:HB2	2.49	0.47
1:C:1426:ILE:O	1:C:1430:THR:HG22	2.15	0.47
1:C:2157:GLU:O	1:C:2161:GLN:HG2	2.14	0.47
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.15	0.47
1:C:2499:LYS:HA	1:C:2502:MET:HG2	1.96	0.47
1:C:2527:LEU:N	1:C:2528:PRO:HD2	2.30	0.47
1:C:2874:MET:HE3	1:C:2937:VAL:HG22	1.96	0.47
1:C:3172:ILE:HA	1:C:3175:LEU:HD12	1.97	0.47
1:C:3525:CYS:HA	1:C:3595:ARG:NH2	2.30	0.47
1:C:3735:LEU:HB3	1:C:3766:GLN:NE2	2.30	0.47
1:C:3959:LYS:HG3	1:C:4019:LEU:HD13	1.97	0.47
1:C:4561:THR:HA	1:C:4564:PHE:CE2	2.50	0.47
1:C:4697:VAL:HG23	1:C:4698:LYS:HD3	1.96	0.47
1:A:67:PHE:CE2	1:A:111:HIS:HB2	2.49	0.47
1:A:886:ARG:HG3	1:A:891:TRP:CE3	2.50	0.47
1:A:2191:PHE:O	1:A:2198:MET:HE3	2.15	0.47
1:A:3428:ASN:OD1	1:A:3431:ALA:N	2.45	0.47
1:A:4031:LEU:HG	1:A:4044:MET:HG3	1.96	0.47
2:E:47:LYS:N	2:E:47:LYS:HD3	2.30	0.47
1:B:283:ARG:NH1	1:B:284:HIS:O	2.47	0.47
1:B:323:LEU:HD23	1:B:324:ASP:H	1.80	0.47
1:B:886:ARG:HG3	1:B:891:TRP:CE3	2.50	0.47
1:B:1601:MET:CE	1:B:1604:SER:HB3	2.44	0.47
1:B:1727:ARG:HA	1:B:1730:MET:HE3	1.96	0.47
1:B:2165:LEU:HD12	1:B:2165:LEU:HA	1.71	0.47
1:B:2950:SER:HA	1:B:2953:LYS:HE2	1.96	0.47
1:B:2967:MET:HA	1:B:2970:SER:HB3	1.97	0.47
1:B:3189:ALA:O	1:B:3192:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3398:PHE:HA	1:B:3401:LEU:HG	1.97	0.47
1:B:3416:VAL:HA	1:B:3419:ASN:HB2	1.97	0.47
1:B:3950:ASN:HA	1:B:3953:LYS:HD3	1.97	0.47
1:B:4642:ALA:O	1:B:4646:LEU:HD23	2.15	0.47
1:D:158:SER:O	1:D:161:GLU:HG2	2.15	0.47
1:D:886:ARG:HG3	1:D:891:TRP:CE3	2.50	0.47
1:D:925:SER:O	1:D:929:LEU:HG	2.14	0.47
1:D:995:VAL:HG22	1:D:998:ARG:NH2	2.29	0.47
1:D:2500:ALA:HB2	1:D:2553:TYR:HD1	1.80	0.47
1:D:2642:LYS:O	1:D:2645:THR:OG1	2.30	0.47
1:D:3146:HIS:CD2	1:D:3147:ILE:HD12	2.37	0.47
1:D:3396:ASP:O	1:D:3400:VAL:HG13	2.14	0.47
1:D:4662:ASN:O	1:D:4666:VAL:HB	2.14	0.47
1:C:11:VAL:HG11	1:C:164:ARG:HB3	1.96	0.47
1:C:214:VAL:HG22	1:C:339:ILE:HB	1.97	0.47
1:C:575:LEU:O	1:C:578:ILE:HG22	2.15	0.47
1:C:1105:ALA:N	1:C:1189:LEU:O	2.39	0.47
1:C:2191:PHE:O	1:C:2198:MET:HE3	2.15	0.47
1:C:2358:ILE:HG13	1:C:2359:ARG:NE	2.28	0.47
1:C:2642:LYS:O	1:C:2645:THR:OG1	2.30	0.47
1:C:2966:TRP:HB3	1:C:2998:PHE:HE2	1.79	0.47
1:C:2967:MET:HA	1:C:2970:SER:HB3	1.97	0.47
1:C:3811:GLU:O	1:C:3815:LYS:HG3	2.15	0.47
1:C:3983:SER:OG	1:C:3985:LEU:HG	2.14	0.47
1:C:4975:PHE:O	1:C:4979:THR:HG23	2.15	0.47
1:A:155:LYS:N	1:A:155:LYS:HD2	2.30	0.47
1:A:170:ILE:HG13	1:A:179:TYR:CD1	2.49	0.47
1:A:637:LEU:HD21	1:A:1696:HIS:CE1	2.50	0.47
1:A:995:VAL:HG22	1:A:998:ARG:NH2	2.29	0.47
1:A:1208:VAL:CG1	1:D:3575:LEU:HD21	2.44	0.47
1:A:1450:VAL:HA	1:A:1552:VAL:HG22	1.97	0.47
1:A:1727:ARG:HA	1:A:1730:MET:HE3	1.96	0.47
1:A:2287:ALA:HB1	1:A:2346:VAL:HG21	1.96	0.47
1:A:2499:LYS:HA	1:A:2502:MET:HG2	1.96	0.47
1:A:2547:ALA:HA	1:A:2550:LEU:HD23	1.96	0.47
1:A:3589:PRO:HA	1:A:3592:ILE:HG22	1.97	0.47
1:A:3811:GLU:O	1:A:3815:LYS:HG3	2.15	0.47
1:A:4715:TYR:HE2	1:A:4717:ASP:HB3	1.79	0.47
1:A:4732:PHE:CD2	1:A:4736:ARG:HB3	2.49	0.47
2:H:20:GLN:HE22	2:H:106:LEU:HB3	1.80	0.47
1:B:681:HIS:N	1:B:784:SER:OG	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1457:TYR:O	1:B:1458:HIS:ND1	2.47	0.47
1:B:2287:ALA:HB1	1:B:2346:VAL:HG21	1.96	0.47
1:B:3051:ARG:O	1:B:3053:ARG:NH2	2.45	0.47
1:B:3498:ARG:HB3	1:B:3499:ARG:H	1.51	0.47
1:B:4561:THR:HA	1:B:4564:PHE:CE2	2.50	0.47
1:B:4975:PHE:O	1:B:4979:THR:HG23	2.15	0.47
1:D:1254:HIS:HB3	1:D:1274:HIS:HE1	1.80	0.47
1:D:2191:PHE:O	1:D:2198:MET:HE3	2.15	0.47
1:D:2476:ILE:HD11	1:D:2541:PHE:HE2	1.80	0.47
1:D:2603:ILE:O	1:D:2607:LEU:HG	2.15	0.47
1:D:3171:SER:OG	1:D:3172:ILE:N	2.46	0.47
1:D:3532:LEU:HD23	1:D:3533:ILE:HD13	1.96	0.47
1:D:3994:HIS:CE1	1:D:3995:VAL:HG23	2.51	0.47
1:D:5014:TYR:O	1:D:5017:ARG:HD2	2.15	0.47
1:C:170:ILE:HG13	1:C:179:TYR:CD1	2.49	0.47
1:C:830:ARG:HD3	1:C:1612:PHE:CE1	2.50	0.47
1:C:893:TYR:HA	1:C:904:HIS:O	2.14	0.47
1:C:1463:ASN:OD1	1:C:1463:ASN:N	2.47	0.47
1:C:1607:ARG:H	1:C:1652:GLU:CD	2.23	0.47
1:C:2547:ALA:HA	1:C:2550:LEU:HD23	1.96	0.47
1:C:2952:GLU:O	1:C:2957:PHE:HB3	2.15	0.47
1:C:3023:LYS:HD2	1:C:3023:LYS:C	2.40	0.47
1:C:3081:MET:C	1:C:3081:MET:HE2	2.39	0.47
1:C:3145:GLN:HA	1:C:3196:ARG:HH21	1.79	0.47
1:C:3245:VAL:HG22	1:C:3246:LEU:HD23	1.97	0.47
1:C:3344:PRO:O	1:C:3347:SER:OG	2.23	0.47
1:C:3532:LEU:HD23	1:C:3533:ILE:HD13	1.96	0.47
1:C:4031:LEU:HG	1:C:4044:MET:HG3	1.96	0.47
1:C:4662:ASN:O	1:C:4666:VAL:HB	2.14	0.47
1:C:4715:TYR:HE2	1:C:4717:ASP:HB3	1.79	0.47
1:C:4788:SER:O	1:C:4792:LEU:HG	2.15	0.47
1:A:548:VAL:HA	1:A:551:LEU:HG	1.96	0.46
1:A:670:GLU:OE2	1:A:788:LYS:HG3	2.15	0.46
1:A:719:LEU:HD21	2:E:7:ILE:HA	1.97	0.46
1:A:1220:GLN:OE1	1:D:3522:LEU:HD22	2.15	0.46
1:A:1833:SER:HB3	1:A:1836:PHE:HD2	1.80	0.46
1:A:1924:GLU:OE2	1:A:1924:GLU:N	2.48	0.46
1:A:2226:PRO:HB2	1:A:2268[B]:GLN:HE21	1.79	0.46
1:A:2770:LYS:HB3	1:A:2786:LYS:NZ	2.30	0.46
1:A:4081:VAL:HG22	1:A:4088:ILE:HD12	1.96	0.46
1:B:341:TYR:CE1	1:B:392:ARG:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1493:TYR:HB3	1:B:1540:PHE:CE2	2.50	0.46
1:B:3552:PHE:O	1:B:3556:ASN:HB2	2.16	0.46
1:B:3906:GLN:H	1:B:3912:THR:HG23	1.79	0.46
1:B:3959:LYS:HG3	1:B:4019:LEU:HD13	1.96	0.46
1:D:155:LYS:N	1:D:155:LYS:HD2	2.30	0.46
1:D:203:ASN:HD21	1:D:268:SER:HB2	1.79	0.46
1:D:320:LYS:NZ	1:D:386:ASP:OD2	2.34	0.46
1:D:697:GLY:HA2	1:D:1636:MET:HE2	1.97	0.46
1:D:978:THR:OG1	1:D:981:GLN:OE1	2.30	0.46
1:D:1091:GLU:OE2	1:D:1213:PHE:HB2	2.16	0.46
1:D:1493:TYR:HB3	1:D:1540:PHE:CE2	2.50	0.46
1:D:1727:ARG:O	1:D:1731:LEU:HG	2.15	0.46
1:D:2287:ALA:HB1	1:D:2346:VAL:HG21	1.96	0.46
1:D:2779:GLU:HA	1:D:2791:LEU:O	2.16	0.46
1:D:3254:GLY:O	1:D:3258:GLU:HG3	2.16	0.46
1:D:3811:GLU:O	1:D:3815:LYS:HG3	2.15	0.46
1:D:4642:ALA:O	1:D:4646:LEU:HD23	2.15	0.46
1:C:1091:GLU:OE2	1:C:1213:PHE:HB2	2.16	0.46
1:C:1450:VAL:HA	1:C:1552:VAL:HG22	1.97	0.46
1:C:1601:MET:CE	1:C:1604:SER:HB3	2.44	0.46
1:C:1762:LEU:HD23	1:C:1765:VAL:HG21	1.97	0.46
1:C:2031:LEU:HD12	1:C:2032:GLN:N	2.30	0.46
1:C:3416:VAL:HA	1:C:3419:ASN:HB2	1.97	0.46
1:A:341:TYR:CE1	1:A:392:ARG:HA	2.50	0.46
1:A:579:GLN:O	1:A:583:ILE:HG13	2.15	0.46
1:A:1091:GLU:OE2	1:A:1213:PHE:HB2	2.15	0.46
1:A:1596:GLU:OE1	1:A:1597:VAL:N	2.45	0.46
1:A:1859:VAL:HA	1:A:1862:ILE:HD12	1.97	0.46
1:A:2015:GLU:HA	1:A:2018:GLU:HB2	1.97	0.46
1:A:2433:LEU:HG	1:A:2505:PHE:HE2	1.80	0.46
1:A:2527:LEU:N	1:A:2528:PRO:HD2	2.30	0.46
1:A:2952:GLU:O	1:A:2957:PHE:HB3	2.15	0.46
1:A:3141:THR:HG22	1:A:3193:CYS:HA	1.96	0.46
1:A:3419:ASN:HA	1:A:3422[A]:HIS:ND1	2.30	0.46
1:A:3822:ASP:O	1:A:3824:LYS:NZ	2.30	0.46
1:A:3920:VAL:O	1:A:3924:LEU:HG	2.14	0.46
1:B:155:LYS:N	1:B:155:LYS:HD2	2.30	0.46
1:B:278:GLN:HA	1:B:328:LYS:HZ3	1.80	0.46
1:B:670:GLU:OE2	1:B:788:LYS:HG3	2.15	0.46
1:B:1091:GLU:OE2	1:B:1213:PHE:HB2	2.16	0.46
1:B:1833:SER:HB3	1:B:1836:PHE:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1859:VAL:HA	1:B:1862:ILE:HD12	1.97	0.46
1:B:1939:MET:O	1:B:1943:LEU:HG	2.14	0.46
1:B:2500:ALA:HB2	1:B:2553:TYR:HB2	1.98	0.46
1:B:2770:LYS:HB3	1:B:2786:LYS:NZ	2.30	0.46
1:B:3023:LYS:HD2	1:B:3023:LYS:C	2.40	0.46
1:B:3419:ASN:HA	1:B:3422[A]:HIS:ND1	2.30	0.46
1:B:3787:LYS:HE3	1:B:3787:LYS:HB2	1.57	0.46
1:B:3997:ALA:HA	1:B:4000:MET:SD	2.55	0.46
1:D:661:LYS:HD2	1:D:808:TYR:CZ	2.50	0.46
1:D:670:GLU:OE2	1:D:788:LYS:HG3	2.15	0.46
1:D:2312:MET:O	1:D:2316:LYS:N	2.46	0.46
1:D:3172:ILE:HA	1:D:3175:LEU:HD12	1.97	0.46
1:D:3349:ALA:HA	1:D:3350:ARG:NH2	2.30	0.46
1:D:3525:CYS:HA	1:D:3595:ARG:NH2	2.30	0.46
1:D:3787:LYS:HE3	1:D:3787:LYS:HB2	1.57	0.46
1:D:4085:ARG:NH2	1:D:4122:MET:HG3	2.30	0.46
1:D:4214:LYS:HE3	1:D:4214:LYS:HB3	1.73	0.46
1:C:323:LEU:HD23	1:C:324:ASP:H	1.80	0.46
1:C:1457:TYR:O	1:C:1458:HIS:ND1	2.47	0.46
1:C:1493:TYR:HB3	1:C:1540:PHE:CE2	2.50	0.46
1:C:1833:SER:HB3	1:C:1836:PHE:HD2	1.80	0.46
1:C:2490:MET:HE3	1:C:2493:SER:OG	2.15	0.46
1:C:2522:LEU:C	1:C:2527:LEU:HG	2.40	0.46
1:C:3367:LYS:HE2	1:C:3371:LYS:NZ	2.27	0.46
1:C:4207:MET:HB2	1:C:4210:VAL:HG12	1.97	0.46
1:C:4722:ARG:HH11	1:C:4748:LEU:HB3	1.80	0.46
1:C:4794:TRP:O	1:C:4798:MET:HG2	2.16	0.46
1:A:15:ARG:HD3	1:A:16:THR:N	2.31	0.46
1:A:29:LEU:HD12	1:A:31:GLU:HB3	1.97	0.46
1:A:758:ARG:NH1	1:A:761:GLY:H	2.08	0.46
1:A:830:ARG:HD3	1:A:1612:PHE:CE1	2.50	0.46
1:A:2301:TYR:HB3	1:A:2331:TYR:CE2	2.50	0.46
1:A:2480:GLY:C	1:A:2483:GLY:H	2.24	0.46
1:A:3349:ALA:HA	1:A:3350:ARG:NH2	2.30	0.46
1:A:3416:VAL:HA	1:A:3419:ASN:HB2	1.97	0.46
1:A:3467:MET:HA	1:A:3467:MET:HE2	1.97	0.46
1:A:4722:ARG:HH11	1:A:4748:LEU:HB3	1.80	0.46
1:A:4723:LYS:HB2	1:A:4723:LYS:HE2	1.79	0.46
1:B:66:CYS:O	1:B:111:HIS:ND1	2.41	0.46
1:B:214:VAL:HG22	1:B:339:ILE:HB	1.97	0.46
1:B:382:GLY:O	1:B:383:HIS:ND1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:579:GLN:O	1:B:583:ILE:HG13	2.15	0.46
1:B:954:LYS:HA	1:B:954:LYS:HD2	1.75	0.46
1:B:1426:ILE:O	1:B:1430:THR:HG22	2.15	0.46
1:B:1568:LYS:HA	1:B:1568:LYS:HE3	1.97	0.46
1:B:3349:ALA:HA	1:B:3350:ARG:NH2	2.30	0.46
1:D:229:GLU:OE2	1:D:247:TYR:HB3	2.16	0.46
1:D:382:GLY:O	1:D:383:HIS:ND1	2.48	0.46
1:D:1810:LYS:HB2	1:D:1810:LYS:HE3	1.69	0.46
1:D:1833:SER:HB3	1:D:1836:PHE:HD2	1.80	0.46
1:D:1924:GLU:OE2	1:D:1924:GLU:N	2.48	0.46
1:D:2031:LEU:HD12	1:D:2032:GLN:N	2.30	0.46
1:D:2247:GLN:HA	1:D:2250:MET:CE	2.45	0.46
1:D:2433:LEU:HG	1:D:2505:PHE:HE2	1.80	0.46
1:D:2967:MET:HA	1:D:2970:SER:HB3	1.97	0.46
1:D:3467:MET:HA	1:D:3467:MET:HE2	1.97	0.46
1:D:3959:LYS:HG3	1:D:4019:LEU:HD13	1.97	0.46
1:D:4725:LEU:HA	1:D:4737:ILE:HG21	1.96	0.46
1:C:155:LYS:N	1:C:155:LYS:HD2	2.30	0.46
1:C:276:TRP:H	1:C:338:GLU:HG2	1.81	0.46
1:C:637:LEU:HD21	1:C:1696:HIS:CE1	2.50	0.46
1:C:661:LYS:HD2	1:C:808:TYR:CZ	2.50	0.46
1:C:881:LEU:O	1:C:885:THR:HG23	2.16	0.46
1:C:1101:ARG:HD3	1:C:1125:ASN:HB2	1.98	0.46
1:C:2283:ASN:ND2	1:C:2286:LEU:HG	2.29	0.46
1:C:3588:ASP:H	1:C:3591:LYS:HE3	1.80	0.46
1:C:4184:MET:SD	1:C:4188:ARG:NH2	2.77	0.46
1:C:5014:TYR:O	1:C:5017:ARG:HD2	2.15	0.46
1:A:11:VAL:HG11	1:A:164:ARG:HB3	1.96	0.46
1:A:168:ASP:HB3	1:A:199:LEU:HD21	1.98	0.46
1:A:233:ILE:HD13	1:A:284:HIS:CE1	2.50	0.46
1:A:661:LYS:HD2	1:A:808:TYR:CZ	2.50	0.46
1:A:3023:LYS:HD2	1:A:3023:LYS:C	2.40	0.46
1:A:3522:LEU:HB3	1:B:1220:GLN:CD	2.38	0.46
1:A:4207:MET:O	1:A:4210:VAL:HG12	2.16	0.46
2:G:31:GLU:HG2	2:G:96:THR:OG1	2.15	0.46
1:B:29:LEU:HD12	1:B:31:GLU:HB3	1.97	0.46
1:B:881:LEU:O	1:B:885:THR:HG23	2.16	0.46
1:B:1252:HIS:HE1	1:B:1255:TYR:CD2	2.34	0.46
1:B:2121:PHE:CZ	1:B:3701:LEU:HB2	2.51	0.46
1:B:2966:TRP:HB3	1:B:2998:PHE:HE2	1.79	0.46
1:B:3000:LYS:HD2	1:B:3000:LYS:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3145:GLN:HA	1:B:3196:ARG:HH21	1.80	0.46
1:B:3812:VAL:O	1:B:3816:MET:HG2	2.14	0.46
1:D:1426:ILE:O	1:D:1430:THR:HG22	2.15	0.46
1:D:1762:LEU:HD23	1:D:1765:VAL:HG21	1.97	0.46
1:D:2113:SER:O	1:D:2117:VAL:HG23	2.16	0.46
1:D:2351:ASN:O	1:D:2355:ARG:HG2	2.14	0.46
1:D:3419:ASN:HA	1:D:3422[A]:HIS:ND1	2.30	0.46
1:D:3539:ARG:O	1:D:3539:ARG:HD3	2.16	0.46
1:D:4207:MET:HB2	1:D:4210:VAL:HG12	1.97	0.46
1:C:29:LEU:HD12	1:C:31:GLU:HB3	1.97	0.46
1:C:341:TYR:CE1	1:C:392:ARG:HA	2.50	0.46
1:C:1739:THR:HB	1:C:1742:THR:H	1.80	0.46
1:C:2301:TYR:HB3	1:C:2331:TYR:CE2	2.50	0.46
1:C:2627:VAL:HA	1:C:2678:LEU:HD11	1.98	0.46
1:C:2760:GLU:HG2	1:C:2797:PHE:CE2	2.49	0.46
1:C:3467:MET:HE2	1:C:3467:MET:HA	1.97	0.46
1:C:4077:PHE:O	1:C:4081:VAL:HG23	2.15	0.46
1:C:4698:LYS:HD3	1:C:4698:LYS:N	2.31	0.46
1:C:4755:GLU:OE1	1:C:4755:GLU:N	2.33	0.46
1:A:252:VAL:HA	1:A:255:HIS:CD2	2.51	0.46
1:A:595:ARG:HH22	1:A:1661:ARG:HH12	1.64	0.46
1:A:640:TYR:CD2	1:A:1634:LEU:HG	2.50	0.46
1:A:697:GLY:HA2	1:A:1636:MET:HE2	1.97	0.46
1:A:714:TYR:HB3	1:A:768:PHE:HE2	1.80	0.46
1:A:877:ASN:O	1:A:880:GLU:HG3	2.15	0.46
1:A:2559:LEU:HB2	1:A:2560:PRO:HD3	1.96	0.46
1:A:3674:ILE:HG23	1:A:3698:LEU:HD11	1.97	0.46
1:A:4846:VAL:O	1:A:4850:LEU:HG	2.15	0.46
1:A:4876:CYS:HB2	1:A:4882:CYS:HB2	1.37	0.46
2:H:105:LYS:NZ	2:H:106:LEU:H	2.14	0.46
1:B:252:VAL:HA	1:B:255:HIS:CD2	2.51	0.46
1:B:623:GLU:OE2	1:B:1680:ARG:NH1	2.49	0.46
1:B:1126:GLY:O	1:B:1142:PRO:HA	2.16	0.46
1:B:1607:ARG:H	1:B:1652:GLU:CD	2.23	0.46
1:B:2340:PHE:HE1	1:B:2345:SER:HB2	1.81	0.46
1:B:2779:GLU:HA	1:B:2791:LEU:O	2.16	0.46
1:B:3670:GLU:HG2	1:B:3728:ILE:HG12	1.96	0.46
1:B:4075:GLU:OE2	1:B:4075:GLU:N	2.46	0.46
1:B:4582:VAL:HG13	1:C:4856:PHE:CZ	2.50	0.46
1:B:4697:VAL:HG23	1:B:4698:LYS:HD3	1.96	0.46
1:B:4722:ARG:HH11	1:B:4748:LEU:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:15:ARG:NH1	1:D:98:HIS:HB3	2.31	0.46
1:D:877:ASN:O	1:D:880:GLU:HG3	2.15	0.46
1:D:1076:ARG:HB3	1:D:1191:VAL:HG23	1.97	0.46
1:D:1101:ARG:HD3	1:D:1125:ASN:HB2	1.98	0.46
1:D:1567:GLY:C	1:D:1568:LYS:HD2	2.41	0.46
1:D:3983:SER:OG	1:D:3985:LEU:HG	2.14	0.46
1:D:4668:LEU:O	1:D:4672:LYS:HG3	2.16	0.46
1:D:4722:ARG:HH11	1:D:4748:LEU:HB3	1.80	0.46
1:D:4794:TRP:O	1:D:4798:MET:HG2	2.16	0.46
1:C:15:ARG:NH1	1:C:98:HIS:HB3	2.31	0.46
1:C:856:VAL:HB	1:C:991:ASN:HD21	1.81	0.46
1:C:925:SER:O	1:C:929:LEU:HG	2.14	0.46
1:C:1007:TYR:CE1	1:C:1019:PRO:HA	2.49	0.46
1:C:1126:GLY:HA3	1:C:1143:TRP:CD2	2.51	0.46
1:C:2500:ALA:HB2	1:C:2553:TYR:HD1	1.80	0.46
1:C:2578:MET:HE3	1:C:2582:MET:HG3	1.96	0.46
1:C:2828:GLU:OE2	1:C:2935:TYR:OH	2.24	0.46
1:C:3138:PRO:O	1:C:3141:THR:OG1	2.27	0.46
1:C:3398:PHE:HA	1:C:3401:LEU:HG	1.97	0.46
1:C:3997:ALA:HA	1:C:4000:MET:SD	2.55	0.46
1:A:349:GLN:HE22	1:A:355:LEU:C	2.23	0.46
1:A:1126:GLY:O	1:A:1142:PRO:HA	2.16	0.46
1:A:1682:ALA:HA	1:A:1685:LEU:HD12	1.96	0.46
1:A:1690:ASP:CG	1:A:1693:GLN:H	2.22	0.46
1:A:1705:GLY:HA2	1:A:1708:ARG:HG2	1.97	0.46
1:A:2255:SER:O	1:A:2297:LYS:NZ	2.49	0.46
1:A:2779:GLU:HA	1:A:2791:LEU:O	2.16	0.46
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.50	0.46
1:A:3571:TRP:HE3	1:A:3575:LEU:HD23	1.81	0.46
1:A:3959:LYS:HG3	1:A:4019:LEU:HD13	1.96	0.46
1:A:4181:ILE:HD12	1:A:4181:ILE:HA	1.81	0.46
1:A:4668:LEU:O	1:A:4672:LYS:HG3	2.16	0.46
1:A:5014:TYR:O	1:A:5017:ARG:HD2	2.15	0.46
2:E:5:GLU:HB3	2:E:73:LYS:HB3	1.98	0.46
2:G:29:MET:N	2:G:29:MET:HE3	2.31	0.46
1:B:472:ARG:NH2	1:B:533:ASN:HA	2.31	0.46
1:B:630:GLU:OE2	1:B:630:GLU:N	2.34	0.46
1:B:640:TYR:CD2	1:B:1634:LEU:HG	2.50	0.46
1:B:1076:ARG:HB3	1:B:1191:VAL:HG23	1.97	0.46
1:B:1567:GLY:C	1:B:1568:LYS:HD2	2.41	0.46
1:B:1762:LEU:HD23	1:B:1765:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2191:PHE:O	1:B:2198:MET:HE3	2.15	0.46
1:B:2247:GLN:HA	1:B:2250:MET:CE	2.45	0.46
1:B:2255:SER:O	1:B:2297:LYS:NZ	2.49	0.46
1:B:2476:ILE:HD11	1:B:2541:PHE:HE2	1.80	0.46
1:B:2480:GLY:C	1:B:2483:GLY:H	2.23	0.46
1:B:3179:LYS:HD3	1:B:3179:LYS:N	2.31	0.46
1:B:3254:GLY:O	1:B:3258:GLU:HG3	2.16	0.46
1:B:3271:GLU:O	1:B:3275:PRO:HG2	2.15	0.46
1:B:3589:PRO:HA	1:B:3592:ILE:HG22	1.97	0.46
1:B:4031:LEU:HG	1:B:4044:MET:HG3	1.96	0.46
1:B:4715:TYR:HE2	1:B:4717:ASP:HB3	1.79	0.46
1:D:292:ALA:HB2	1:D:312:THR:HG23	1.97	0.46
1:D:296:ASP:OD1	1:D:296:ASP:N	2.47	0.46
1:D:623:GLU:OE2	1:D:1680:ARG:NH1	2.49	0.46
1:D:856:VAL:HB	1:D:991:ASN:HD21	1.81	0.46
1:D:1141:ARG:NH1	1:C:3478:MET:CE	2.77	0.46
1:D:2255:SER:O	1:D:2297:LYS:NZ	2.49	0.46
1:D:3368:ARG:HH22	1:D:3405:LEU:HD21	1.81	0.46
1:D:3735:LEU:HB3	1:D:3766:GLN:NE2	2.30	0.46
1:D:4846:VAL:O	1:D:4850:LEU:HG	2.15	0.46
1:C:515:TRP:O	1:C:519:VAL:HG22	2.15	0.46
1:C:1165:ASN:HA	1:C:1213:PHE:CE2	2.51	0.46
1:C:2113:SER:O	1:C:2117:VAL:HG23	2.16	0.46
1:C:2247:GLN:HA	1:C:2250:MET:CE	2.45	0.46
1:C:2340:PHE:HE1	1:C:2345:SER:HB2	1.81	0.46
1:C:3254:GLY:O	1:C:3258:GLU:HG3	2.16	0.46
1:C:3368:ARG:HH22	1:C:3405:LEU:HD21	1.81	0.46
1:C:3419:ASN:HA	1:C:3422[A]:HIS:ND1	2.30	0.46
1:C:3539:ARG:O	1:C:3542:LEU:HB2	2.16	0.46
1:C:4075:GLU:N	1:C:4075:GLU:OE2	2.46	0.46
1:A:1126:GLY:HA3	1:A:1143:TRP:CD2	2.51	0.46
1:A:1658:ASP:OD1	1:A:1659:LEU:N	2.48	0.46
1:A:1931:LEU:HB3	1:A:1935:VAL:HB	1.98	0.46
1:A:2121:PHE:CZ	1:A:3701:LEU:HB2	2.51	0.46
1:A:2247:GLN:HA	1:A:2250:MET:CE	2.45	0.46
1:A:2340:PHE:HE1	1:A:2345:SER:HB2	1.81	0.46
1:A:2500:ALA:HB2	1:A:2553:TYR:HB2	1.98	0.46
1:A:3245:VAL:HG22	1:A:3246:LEU:HD23	1.97	0.46
1:A:3254:GLY:O	1:A:3258:GLU:HG3	2.16	0.46
1:A:3411:LEU:HD12	1:A:3412:LEU:H	1.81	0.46
1:A:3608:GLN:HA	1:A:3611:HIS:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4174:PHE:HA	1:A:4177:TYR:CD2	2.51	0.46
1:A:4788:SER:O	1:A:4792:LEU:HG	2.15	0.46
1:A:4963:ILE:HD13	1:A:5030:LYS:HZ1	1.80	0.46
1:A:5000:GLU:O	1:A:5003:HIS:HB2	2.16	0.46
2:E:42:ARG:NE	2:E:42:ARG:HA	2.30	0.46
1:B:2015:GLU:HA	1:B:2018:GLU:HB2	1.97	0.46
1:B:2630:VAL:HG11	1:B:2678:LEU:HD22	1.98	0.46
1:B:3539:ARG:O	1:B:3539:ARG:HD3	2.16	0.46
1:B:4823:LEU:HD13	1:C:4843:LEU:HD13	1.98	0.46
1:B:4846:VAL:O	1:B:4850:LEU:HG	2.15	0.46
1:D:168:ASP:HB3	1:D:199:LEU:HD21	1.98	0.46
1:D:341:TYR:CE1	1:D:392:ARG:HA	2.50	0.46
1:D:575:LEU:O	1:D:578:ILE:HG22	2.15	0.46
1:D:582:HIS:O	1:D:585:SER:OG	2.28	0.46
1:D:637:LEU:HD21	1:D:1696:HIS:CE1	2.50	0.46
1:D:1126:GLY:O	1:D:1142:PRO:HA	2.16	0.46
1:D:2340:PHE:HE1	1:D:2345:SER:HB2	1.81	0.46
1:D:2478:THR:O	1:D:2486:VAL:N	2.41	0.46
1:D:2522:LEU:C	1:D:2527:LEU:HG	2.40	0.46
1:D:2770:LYS:HB3	1:D:2786:LYS:NZ	2.30	0.46
1:D:3571:TRP:HE3	1:D:3575:LEU:HD23	1.81	0.46
1:D:3608:GLN:HA	1:D:3611:HIS:CE1	2.51	0.46
1:D:3674:ILE:HG23	1:D:3698:LEU:HD11	1.97	0.46
1:D:4561:THR:HA	1:D:4564:PHE:CE2	2.50	0.46
1:D:5000:GLU:O	1:D:5003:HIS:HB2	2.16	0.46
1:C:28:VAL:N	1:C:31:GLU:O	2.31	0.46
1:C:252:VAL:HA	1:C:255:HIS:CD2	2.51	0.46
1:C:1126:GLY:O	1:C:1142:PRO:HA	2.16	0.46
1:C:2495:VAL:HG22	1:C:2498:HIS:ND1	2.29	0.46
1:C:2770:LYS:HB3	1:C:2786:LYS:NZ	2.30	0.46
1:C:3539:ARG:O	1:C:3539:ARG:HD3	2.16	0.46
1:C:3552:PHE:O	1:C:3556:ASN:HB2	2.16	0.46
1:C:4668:LEU:O	1:C:4672:LYS:HG3	2.16	0.46
1:C:4680:LYS:HE2	1:C:4680:LYS:HB2	1.67	0.46
1:C:5000:GLU:O	1:C:5003:HIS:HB2	2.16	0.46
1:A:158:SER:O	1:A:161:GLU:HG2	2.15	0.46
1:A:276:TRP:H	1:A:338:GLU:HG2	1.81	0.46
1:A:2113:SER:O	1:A:2117:VAL:HG23	2.16	0.46
1:A:3172:ILE:HA	1:A:3175:LEU:HD12	1.97	0.46
1:A:3187:ARG:CZ	1:A:3267:PRO:HB2	2.46	0.46
1:A:3344:PRO:O	1:A:3347:SER:OG	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3532:LEU:HD23	1:A:3533:ILE:HD13	1.96	0.46
1:A:3539:ARG:O	1:A:3539:ARG:HD3	2.16	0.46
1:A:3588:ASP:H	1:A:3591:LYS:HE3	1.80	0.46
1:A:4633:GLU:OE1	1:A:4633:GLU:N	2.49	0.46
2:E:57:ARG:HH11	2:E:57:ARG:HG2	1.80	0.46
2:H:47:LYS:HD3	2:H:47:LYS:N	2.30	0.46
1:B:229:GLU:OE2	1:B:247:TYR:HB3	2.16	0.46
1:B:1596:GLU:OE1	1:B:1597:VAL:N	2.46	0.46
1:B:2113:SER:O	1:B:2117:VAL:HG23	2.16	0.46
1:B:2389:ASP:OD1	1:B:2392:ARG:HB2	2.16	0.46
1:B:2433:LEU:HG	1:B:2505:PHE:HE2	1.81	0.46
1:B:2462:PRO:HB2	1:B:2465:ASP:HB2	1.97	0.46
1:B:2499:LYS:HA	1:B:2502:MET:HG2	1.96	0.46
1:B:2627:VAL:HA	1:B:2678:LEU:HD11	1.98	0.46
1:B:3573:MET:HA	1:B:3573:MET:HE3	1.98	0.46
1:B:3573:MET:HA	1:B:3576:TYR:HB2	1.98	0.46
1:B:3608:GLN:HA	1:B:3611:HIS:CE1	2.51	0.46
1:B:3994:HIS:CE1	1:B:3995:VAL:HG23	2.51	0.46
1:D:233:ILE:HD13	1:D:284:HIS:CE1	2.50	0.46
1:D:403:MET:HE3	1:D:403:MET:HB3	1.79	0.46
1:D:515:TRP:O	1:D:519:VAL:HG22	2.15	0.46
1:D:1607:ARG:H	1:D:1652:GLU:CD	2.23	0.46
1:D:2480:GLY:C	1:D:2483:GLY:H	2.23	0.46
1:D:2790:MET:HA	1:D:2792:ARG:NH2	2.31	0.46
1:D:3416:VAL:HA	1:D:3419:ASN:HB2	1.97	0.46
1:D:3539:ARG:O	1:D:3542:LEU:HB2	2.16	0.46
1:D:4077:PHE:O	1:D:4081:VAL:HG23	2.15	0.46
1:D:4680:LYS:HE2	1:D:4680:LYS:HB2	1.67	0.46
1:C:534:ARG:HD2	1:C:570:GLU:OE1	2.15	0.46
1:C:640:TYR:CD2	1:C:1634:LEU:HG	2.50	0.46
1:C:700:GLU:O	1:C:705:ASN:ND2	2.30	0.46
1:C:910:PHE:HB2	1:C:918:ARG:HD3	1.98	0.46
1:C:2131:LEU:O	1:C:2135:LEU:HG	2.16	0.46
1:C:2255:SER:O	1:C:2297:LYS:NZ	2.49	0.46
1:C:2927:LEU:HA	1:C:2927:LEU:HD13	1.71	0.46
1:C:3060:ASP:O	1:C:3064:VAL:HG23	2.15	0.46
1:C:3589:PRO:HA	1:C:3592:ILE:HG22	1.97	0.46
1:C:3608:GLN:HA	1:C:3611:HIS:CE1	2.51	0.46
1:C:4174:PHE:HA	1:C:4177:TYR:CD2	2.51	0.46
1:C:4633:GLU:OE1	1:C:4633:GLU:N	2.49	0.46
1:A:15:ARG:NH1	1:A:98:HIS:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:229:GLU:OE2	1:A:247:TYR:HB3	2.16	0.46
1:A:976:ARG:HA	1:A:976:ARG:HD3	1.66	0.46
1:A:1141:ARG:HB2	1:D:3478:MET:O	2.15	0.46
1:A:3504:SER:O	1:A:3508:SER:N	2.48	0.46
1:A:4202:ARG:O	1:A:4206:GLU:HG2	2.16	0.46
1:A:4553:ASN:C	1:A:4557:ARG:HE	2.24	0.46
1:A:4561:THR:HA	1:A:4564:PHE:CE2	2.50	0.46
2:H:49:MET:HE2	2:H:49:MET:HA	1.98	0.46
1:B:15:ARG:HD3	1:B:16:THR:N	2.31	0.46
1:B:158:SER:O	1:B:161:GLU:HG2	2.15	0.46
1:B:332:GLU:H	1:B:332:GLU:CD	2.24	0.46
1:B:474:ARG:O	1:B:478:PHE:HD1	1.99	0.46
1:B:695:TYR:OH	1:B:1073:ARG:NH2	2.49	0.46
1:B:979:PRO:O	1:B:982:THR:OG1	2.22	0.46
1:B:1044:ARG:O	1:B:1044:ARG:NE	2.47	0.46
1:B:1119:GLU:N	1:B:1119:GLU:OE2	2.47	0.46
1:B:1165:ASN:HA	1:B:1213:PHE:CE2	2.51	0.46
1:B:1433:TYR:CE2	1:B:1573:MET:HB2	2.51	0.46
1:B:1924:GLU:N	1:B:1924:GLU:OE2	2.48	0.46
1:B:2031:LEU:HD12	1:B:2032:GLN:N	2.30	0.46
1:B:2502:MET:SD	1:B:2502:MET:N	2.89	0.46
1:B:2615:ARG:HB2	1:B:2618:MET:HG3	1.98	0.46
1:B:2650:ARG:NH2	1:B:2651:CYS:SG	2.89	0.46
1:B:3467:MET:HE2	1:B:3467:MET:HA	1.97	0.46
1:B:3535:LEU:O	1:B:3538:THR:OG1	2.30	0.46
1:B:3535:LEU:HD23	1:B:3556:ASN:HD21	1.81	0.46
1:B:3735:LEU:HB3	1:B:3766:GLN:NE2	2.30	0.46
1:B:4207:MET:O	1:B:4210:VAL:HG12	2.16	0.46
1:B:4788:SER:O	1:B:4792:LEU:HG	2.15	0.46
1:B:5012:LYS:HE2	1:B:5012:LYS:HA	1.98	0.46
1:D:534:ARG:NH2	1:D:572:PRO:HD2	2.31	0.46
1:D:714:TYR:HB3	1:D:768:PHE:HE2	1.80	0.46
1:D:830:ARG:HD3	1:D:1612:PHE:CE1	2.50	0.46
1:D:874:LEU:HD22	1:D:1049:TYR:CE2	2.51	0.46
1:D:1044:ARG:O	1:D:1044:ARG:NE	2.47	0.46
1:D:1165:ASN:HA	1:D:1213:PHE:CE2	2.51	0.46
1:D:1716:ILE:HG23	1:D:1847:THR:HG21	1.98	0.46
1:D:1859:VAL:HA	1:D:1862:ILE:HD12	1.97	0.46
1:D:2165:LEU:HD12	1:D:2165:LEU:HA	1.71	0.46
1:D:2384:ILE:HG22	1:D:2388:GLU:OE2	2.16	0.46
1:D:2547:ALA:HA	1:D:2550:LEU:HD23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2788:HIS:CG	1:D:2789:PRO:HD2	2.51	0.46
1:D:2927:LEU:HA	1:D:2927:LEU:HD13	1.72	0.46
1:D:3562:LYS:HA	1:D:3562:LYS:HD3	1.60	0.46
1:D:3844:LEU:HD23	1:D:3844:LEU:HA	1.84	0.46
1:D:4580:TYR:OH	1:D:4630:TYR:O	2.29	0.46
1:D:4633:GLU:OE1	1:D:4633:GLU:N	2.49	0.46
1:C:229:GLU:OE2	1:C:247:TYR:HB3	2.16	0.46
1:C:233:ILE:HD13	1:C:284:HIS:CE1	2.50	0.46
1:C:695:TYR:OH	1:C:1073:ARG:NH2	2.49	0.46
1:C:1119:GLU:OE2	1:C:1119:GLU:N	2.47	0.46
1:C:1705:GLY:HA2	1:C:1708:ARG:HG2	1.97	0.46
1:C:2496:PRO:HB3	1:C:2553:TYR:CZ	2.50	0.46
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.51	0.46
1:C:3271:GLU:O	1:C:3275:PRO:HG2	2.15	0.46
1:C:3994:HIS:CE1	1:C:3995:VAL:HG23	2.50	0.46
1:C:4085:ARG:NH2	1:C:4122:MET:HG3	2.30	0.46
1:C:4627:MET:HE3	1:C:4627:MET:N	2.27	0.46
1:A:332:GLU:H	1:A:332:GLU:CD	2.24	0.46
1:A:749:ASP:O	1:A:754:SER:N	2.36	0.46
1:A:856:VAL:HB	1:A:991:ASN:HD21	1.81	0.46
1:A:881:LEU:O	1:A:885:THR:HG23	2.16	0.46
1:A:1101:ARG:HD3	1:A:1125:ASN:HB2	1.98	0.46
1:A:1454:THR:OG1	1:A:1491:ASN:O	2.27	0.46
1:A:1739:THR:HB	1:A:1742:THR:H	1.80	0.46
1:A:1785:ALA:HA	2:E:56:ILE:HD13	1.98	0.46
1:A:2131:LEU:O	1:A:2135:LEU:HG	2.16	0.46
1:A:2384:ILE:HG22	1:A:2388:GLU:OE2	2.16	0.46
1:A:3060:ASP:O	1:A:3064:VAL:HG23	2.15	0.46
1:A:3950:ASN:HA	1:A:3953:LYS:HD3	1.97	0.46
1:A:3994:HIS:CE1	1:A:3995:VAL:HG23	2.50	0.46
1:A:4794:TRP:O	1:A:4798:MET:HG2	2.16	0.46
2:E:2:VAL:HG23	2:E:80:TYR:CD2	2.50	0.46
2:E:26:TYR:OH	2:E:37:ASP:OD2	2.27	0.46
2:H:88:PRO:HB3	1:D:623:GLU:CD	2.40	0.46
2:F:10:GLY:HA3	2:F:70:GLN:HB2	1.98	0.46
1:B:233:ILE:HD13	1:B:284:HIS:CE1	2.50	0.46
1:B:874:LEU:HD22	1:B:1049:TYR:CE2	2.51	0.46
1:B:1105:ALA:O	1:B:1189:LEU:N	2.35	0.46
1:B:2603:ILE:O	1:B:2607:LEU:HG	2.15	0.46
1:B:3411:LEU:HD12	1:B:3412:LEU:H	1.81	0.46
1:B:3539:ARG:O	1:B:3542:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3588:ASP:H	1:B:3591:LYS:HE3	1.80	0.46
1:B:4207:MET:HB2	1:B:4210:VAL:HG12	1.97	0.46
1:B:4627:MET:HE3	1:B:4627:MET:N	2.27	0.46
1:B:4633:GLU:OE1	1:B:4633:GLU:N	2.49	0.46
1:B:4634:GLU:HG2	1:B:4639:MET:HG2	1.98	0.46
1:B:5014:TYR:O	1:B:5017:ARG:HD2	2.15	0.46
1:D:474:ARG:O	1:D:478:PHE:HD1	1.99	0.46
1:D:640:TYR:CD2	1:D:1634:LEU:HG	2.50	0.46
1:D:1450:VAL:HA	1:D:1552:VAL:HG22	1.97	0.46
1:D:1931:LEU:HB3	1:D:1935:VAL:HB	1.98	0.46
1:D:2301:TYR:HB3	1:D:2331:TYR:CE2	2.50	0.46
1:D:2952:GLU:O	1:D:2957:PHE:HB3	2.15	0.46
1:D:3187:ARG:CZ	1:D:3267:PRO:HB2	2.46	0.46
1:D:3368:ARG:HH22	1:D:3405:LEU:HD11	1.81	0.46
1:D:3573:MET:HA	1:D:3576:TYR:HB2	1.98	0.46
1:D:3588:ASP:H	1:D:3591:LYS:HE3	1.80	0.46
1:D:4664:LEU:HD12	1:D:4664:LEU:HA	1.77	0.46
1:C:158:SER:O	1:C:161:GLU:HG2	2.15	0.46
1:C:188:GLU:H	1:C:188:GLU:HG3	1.60	0.46
1:C:292:ALA:HB2	1:C:312:THR:HG23	1.97	0.46
1:C:382:GLY:O	1:C:383:HIS:ND1	2.48	0.46
1:C:534:ARG:NH2	1:C:572:PRO:HD2	2.31	0.46
1:C:887:ILE:HG23	1:C:888:GLU:OE1	2.15	0.46
1:C:1252:HIS:HE1	1:C:1255:TYR:CD2	2.34	0.46
1:C:1433:TYR:CE2	1:C:1573:MET:HB2	2.51	0.46
1:C:1476:MET:O	1:C:1484:HIS:N	2.49	0.46
1:C:1567:GLY:C	1:C:1568:LYS:HD2	2.41	0.46
1:C:2094:LEU:HD23	1:C:2094:LEU:H	1.81	0.46
1:C:2121:PHE:CZ	1:C:3701:LEU:HB2	2.51	0.46
1:C:2779:GLU:HA	1:C:2791:LEU:O	2.16	0.46
1:C:4902:GLU:H	1:C:4902:GLU:CD	2.18	0.46
1:A:125:ARG:NH1	1:A:126:SER:HA	2.31	0.45
1:A:320:LYS:NZ	1:A:386:ASP:OD2	2.34	0.45
1:A:472:ARG:NH2	1:A:533:ASN:HA	2.31	0.45
1:A:534:ARG:NH2	1:A:572:PRO:HD2	2.31	0.45
1:A:623:GLU:OE2	1:A:1680:ARG:NH1	2.49	0.45
1:A:1141:ARG:NH1	1:D:3478:MET:CE	2.74	0.45
1:A:1252:HIS:HE1	1:A:1255:TYR:CD2	2.34	0.45
1:A:1567:GLY:C	1:A:1568:LYS:HD2	2.41	0.45
1:A:2287:ALA:HA	1:A:2290:LEU:HD12	1.99	0.45
1:A:2389:ASP:OD1	1:A:2392:ARG:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2615:ARG:HB2	1:A:2618:MET:HG3	1.98	0.45
1:A:3271:GLU:O	1:A:3275:PRO:HG2	2.15	0.45
1:A:3368:ARG:HH22	1:A:3405:LEU:HD11	1.81	0.45
1:A:3525:CYS:HA	1:A:3595:ARG:NH2	2.30	0.45
1:A:4085:ARG:NH2	1:A:4122:MET:HG3	2.30	0.45
1:A:4627:MET:H	1:A:4627:MET:CE	2.26	0.45
1:A:4627:MET:HE3	1:A:4627:MET:N	2.27	0.45
1:A:4634:GLU:HG2	1:A:4639:MET:HG2	1.98	0.45
1:A:4715:TYR:CE2	1:A:4717:ASP:HB3	2.51	0.45
1:A:4856:PHE:CZ	1:D:4582:VAL:HG13	2.52	0.45
2:E:59:TRP:CH2	2:E:63:VAL:HG21	2.50	0.45
2:E:65:GLN:H	2:E:65:GLN:CD	2.24	0.45
2:G:56:ILE:HD11	1:C:1783:VAL:HA	1.97	0.45
2:G:97:LEU:HD12	2:G:97:LEU:HA	1.80	0.45
1:B:125:ARG:NH1	1:B:126:SER:HA	2.31	0.45
1:B:292:ALA:HB2	1:B:312:THR:HG23	1.97	0.45
1:B:856:VAL:HB	1:B:991:ASN:HD21	1.81	0.45
1:B:910:PHE:HB2	1:B:918:ARG:HD3	1.98	0.45
1:B:1111:PRO:HD3	1:B:1605:TRP:NE1	2.31	0.45
1:B:1843:LYS:HE2	1:B:1938:GLN:HG2	1.98	0.45
1:B:2107:GLN:NE2	1:B:3681:GLY:H	2.15	0.45
1:B:2131:LEU:O	1:B:2135:LEU:HG	2.16	0.45
1:B:2287:ALA:HA	1:B:2290:LEU:HD12	1.99	0.45
1:B:2328:GLY:HA3	1:B:2425:PHE:HE2	1.81	0.45
1:B:2952:GLU:HA	1:B:2957:PHE:CG	2.52	0.45
1:B:4715:TYR:CE2	1:B:4717:ASP:HB3	2.51	0.45
1:D:881:LEU:O	1:D:885:THR:HG23	2.16	0.45
1:D:1255:TYR:HD1	1:D:1272:LEU:HD11	1.80	0.45
1:D:3060:ASP:O	1:D:3064:VAL:HG23	2.15	0.45
1:D:4202:ARG:O	1:D:4206:GLU:HG2	2.16	0.45
1:C:2088:GLU:OE1	1:C:2088:GLU:N	2.50	0.45
1:C:2090:LYS:HZ2	1:C:2092:GLN:HG2	1.81	0.45
1:C:2231:SER:HB3	1:C:2234:ARG:HH21	1.81	0.45
1:C:2389:ASP:OD1	1:C:2392:ARG:HB2	2.16	0.45
1:C:2790:MET:HA	1:C:2792:ARG:NH2	2.31	0.45
1:C:3533:ILE:HG22	1:C:3537:LYS:HZ2	1.80	0.45
1:A:2952:GLU:HA	1:A:2957:PHE:CG	2.52	0.45
1:A:3352:GLU:OE2	1:A:3352:GLU:N	2.34	0.45
1:A:3368:ARG:HH22	1:A:3405:LEU:HD21	1.81	0.45
2:E:22:CYS:HB2	2:E:48:PHE:CE1	2.52	0.45
1:B:15:ARG:NH1	1:B:98:HIS:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:168:ASP:HB3	1:B:199:LEU:HD21	1.98	0.45
1:B:349:GLN:HE22	1:B:355:LEU:C	2.23	0.45
1:B:2788:HIS:CG	1:B:2789:PRO:HD2	2.51	0.45
1:B:3060:ASP:O	1:B:3064:VAL:HG23	2.15	0.45
1:B:3514:LEU:HA	1:B:3517:MET:CG	2.46	0.45
1:B:3525:CYS:HA	1:B:3595:ARG:NH2	2.30	0.45
1:B:3674:ILE:HG23	1:B:3698:LEU:HD11	1.98	0.45
1:B:5000:GLU:O	1:B:5003:HIS:HB2	2.16	0.45
1:D:15:ARG:HD3	1:D:16:THR:N	2.31	0.45
1:D:1476:MET:O	1:D:1484:HIS:N	2.50	0.45
1:D:2231:SER:HB3	1:D:2234:ARG:HH21	1.82	0.45
1:D:3179:LYS:HD3	1:D:3179:LYS:N	2.31	0.45
1:C:125:ARG:NH1	1:C:126:SER:HA	2.31	0.45
1:C:874:LEU:HD22	1:C:1049:TYR:CE2	2.51	0.45
1:C:904:HIS:NE2	1:C:906:CYS:SG	2.73	0.45
1:C:1859:VAL:HA	1:C:1862:ILE:HD12	1.97	0.45
1:C:1931:LEU:HB3	1:C:1935:VAL:HB	1.98	0.45
1:C:2500:ALA:HB2	1:C:2553:TYR:HB2	1.98	0.45
1:C:2502:MET:N	1:C:2502:MET:SD	2.89	0.45
1:C:2579:VAL:O	1:C:2582:MET:SD	2.74	0.45
1:C:2630:VAL:HG11	1:C:2678:LEU:HD22	1.98	0.45
1:C:2952:GLU:HA	1:C:2957:PHE:CG	2.52	0.45
1:C:4207:MET:O	1:C:4210:VAL:HG12	2.16	0.45
1:C:5012:LYS:HE2	1:C:5012:LYS:HA	1.98	0.45
1:A:1251:GLU:OE1	1:A:1251:GLU:N	2.34	0.45
1:A:1568:LYS:HA	1:A:1568:LYS:HE3	1.97	0.45
1:A:1607:ARG:H	1:A:1652:GLU:CD	2.24	0.45
1:A:1810:LYS:O	1:A:1814:MET:SD	2.75	0.45
1:A:2502:MET:N	1:A:2502:MET:SD	2.89	0.45
1:A:2790:MET:HA	1:A:2792:ARG:NH2	2.31	0.45
1:A:3368:ARG:HA	1:A:3371:LYS:HE2	1.99	0.45
1:A:4207:MET:HB2	1:A:4210:VAL:HG12	1.97	0.45
2:H:7:ILE:HD13	2:H:71:ARG:NE	2.18	0.45
2:H:21:THR:HG23	2:H:107:GLU:HB2	1.96	0.45
2:F:20:GLN:OE1	2:F:21:THR:N	2.49	0.45
1:B:595:ARG:HH22	1:B:1661:ARG:HH12	1.64	0.45
1:B:697:GLY:HA2	1:B:1636:MET:HE2	1.97	0.45
1:B:2496:PRO:HB3	1:B:2553:TYR:CE2	2.52	0.45
1:B:2555:CYS:CB	1:B:2599:GLN:HE21	2.26	0.45
1:B:3187:ARG:CZ	1:B:3267:PRO:HB2	2.46	0.45
1:B:3442:PHE:CZ	1:B:3605:HIS:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3950:ASN:O	1:B:3953:LYS:HG2	2.17	0.45
1:B:4174:PHE:HA	1:B:4177:TYR:CD2	2.51	0.45
1:B:4202:ARG:O	1:B:4206:GLU:HG2	2.16	0.45
1:D:125:ARG:NH1	1:D:126:SER:HA	2.31	0.45
1:D:904:HIS:NE2	1:D:906:CYS:SG	2.73	0.45
1:D:1105:ALA:N	1:D:1189:LEU:O	2.39	0.45
1:D:2131:LEU:O	1:D:2135:LEU:HG	2.16	0.45
1:D:2389:ASP:OD1	1:D:2392:ARG:HB2	2.16	0.45
1:D:3719:ASP:OD2	1:D:3722:TYR:N	2.49	0.45
1:D:3950:ASN:HA	1:D:3953:LYS:HD3	1.97	0.45
1:C:579:GLN:HB2	1:C:581:ASN:OD1	2.17	0.45
1:C:582:HIS:O	1:C:585:SER:OG	2.28	0.45
1:C:670:GLU:OE2	1:C:788:LYS:HG3	2.15	0.45
1:C:3573:MET:HA	1:C:3576:TYR:HB2	1.98	0.45
1:C:3674:ILE:HG23	1:C:3698:LEU:HD11	1.97	0.45
1:C:4664:LEU:HD23	1:C:4665:LYS:HZ1	1.81	0.45
1:C:4716:TRP:CG	6:C:5304:A1BD2:C4	3.00	0.45
1:C:4904:PRO:HB2	1:C:4910:GLU:HB2	1.99	0.45
1:A:579:GLN:HB2	1:A:581:ASN:OD1	2.17	0.45
1:A:695:TYR:OH	1:A:1073:ARG:NH2	2.49	0.45
1:A:931:THR:HG21	1:A:991:ASN:HD22	1.81	0.45
1:A:1039:LEU:O	1:A:1043:VAL:HG23	2.17	0.45
1:A:2328:GLY:HA3	1:A:2425:PHE:HE2	1.81	0.45
1:A:2579:VAL:O	1:A:2582:MET:SD	2.74	0.45
1:A:3563:VAL:HG23	1:A:3569:LEU:HB3	1.98	0.45
1:A:3644:LEU:HD21	1:A:3652:MET:SD	2.57	0.45
1:A:3707:ARG:O	1:A:3711:THR:OG1	2.27	0.45
1:A:5012:LYS:HE2	1:A:5012:LYS:HA	1.98	0.45
1:B:276:TRP:H	1:B:338:GLU:HG2	1.81	0.45
1:B:437:PRO:O	1:B:441:VAL:HG12	2.16	0.45
1:B:534:ARG:NH2	1:B:572:PRO:HD2	2.31	0.45
1:B:1039:LEU:O	1:B:1043:VAL:HG23	2.17	0.45
1:B:1126:GLY:HA3	1:B:1143:TRP:CD2	2.51	0.45
1:B:1658:ASP:OD1	1:B:1659:LEU:N	2.48	0.45
1:B:1810:LYS:O	1:B:1814:MET:SD	2.75	0.45
1:B:3245:VAL:HG22	1:B:3246:LEU:HD23	1.97	0.45
1:B:3368:ARG:HH22	1:B:3405:LEU:HD21	1.81	0.45
1:B:3560:GLN:OE1	1:B:3560:GLN:N	2.30	0.45
1:B:4716:TRP:CG	6:B:5304:A1BD2:C4	2.99	0.45
1:D:323:LEU:HD23	1:D:324:ASP:H	1.80	0.45
1:D:472:ARG:NH2	1:D:533:ASN:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:554:LEU:HD11	1:D:1593:PRO:HD3	1.99	0.45
1:D:695:TYR:OH	1:D:1073:ARG:NH2	2.49	0.45
1:D:2500:ALA:HB2	1:D:2553:TYR:HB2	1.98	0.45
1:D:3271:GLU:O	1:D:3275:PRO:HG2	2.15	0.45
1:D:4207:MET:O	1:D:4210:VAL:HG12	2.16	0.45
1:D:4698:LYS:HD3	1:D:4698:LYS:N	2.31	0.45
1:D:4904:PRO:HB2	1:D:4910:GLU:HB2	1.99	0.45
1:C:681:HIS:N	1:C:784:SER:OG	2.37	0.45
1:C:829:TYR:O	1:C:840:VAL:N	2.45	0.45
1:C:886:ARG:HG3	1:C:891:TRP:CE3	2.50	0.45
1:C:1076:ARG:HB3	1:C:1191:VAL:HG23	1.97	0.45
1:C:1237:TRP:HE3	1:C:1605:TRP:HB3	1.82	0.45
1:C:1613:LEU:HD23	1:C:1613:LEU:HA	1.81	0.45
1:C:2231:SER:HA	1:C:2234:ARG:NE	2.31	0.45
1:C:2480:GLY:C	1:C:2483:GLY:H	2.23	0.45
1:C:2585:THR:O	1:C:2589:LEU:HG	2.17	0.45
1:C:3187:ARG:CZ	1:C:3267:PRO:HB2	2.46	0.45
1:C:3411:LEU:HD12	1:C:3412:LEU:H	1.81	0.45
1:C:3433:GLU:OE2	1:C:3436:ARG:NE	2.36	0.45
1:A:323:LEU:HD23	1:A:324:ASP:H	1.80	0.45
1:A:1165:ASN:HA	1:A:1213:PHE:CE2	2.51	0.45
1:A:1452:TRP:CZ3	1:A:1550:PRO:HG3	2.52	0.45
1:A:1762:LEU:HD23	1:A:1765:VAL:HG21	1.97	0.45
1:A:2555:CYS:CB	1:A:2599:GLN:HE21	2.27	0.45
1:A:2650:ARG:NH2	1:A:2651:CYS:SG	2.89	0.45
1:A:2883:HIS:CE1	1:A:2905:LEU:HD22	2.48	0.45
1:A:3478:MET:O	1:B:1141:ARG:HB2	2.17	0.45
1:A:3535:LEU:HD23	1:A:3556:ASN:HD21	1.81	0.45
1:A:3573:MET:HA	1:A:3576:TYR:HB2	1.98	0.45
1:A:3821:LYS:O	1:A:3824:LYS:HE3	2.17	0.45
1:A:4673:ARG:NH1	1:A:4782:VAL:HG22	2.32	0.45
1:A:4823:LEU:HD13	1:B:4843:LEU:HD22	1.98	0.45
1:A:4843:LEU:HD13	1:D:4823:LEU:HD13	1.97	0.45
1:B:320:LYS:NZ	1:B:386:ASP:OD2	2.34	0.45
1:B:976:ARG:HA	1:B:976:ARG:HD3	1.66	0.45
1:B:1705:GLY:HA2	1:B:1708:ARG:HG2	1.97	0.45
1:B:1931:LEU:HB3	1:B:1935:VAL:HB	1.98	0.45
1:B:2579:VAL:O	1:B:2582:MET:SD	2.74	0.45
1:B:2790:MET:HA	1:B:2792:ARG:NH2	2.31	0.45
1:B:3185:LYS:HE3	1:B:3185:LYS:HB3	1.85	0.45
1:B:3644:LEU:HD21	1:B:3652:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3825:GLU:OE2	1:B:3827:GLY:N	2.48	0.45
1:B:4698:LYS:HD3	1:B:4698:LYS:N	2.31	0.45
1:B:4794:TRP:O	1:B:4798:MET:HG2	2.16	0.45
1:D:910:PHE:HB2	1:D:918:ARG:HD3	1.98	0.45
1:D:960:MET:HE3	1:D:960:MET:N	2.31	0.45
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.17	0.45
1:D:1237:TRP:HE3	1:D:1605:TRP:HB3	1.82	0.45
1:D:2107:GLN:NE2	1:D:3681:GLY:H	2.15	0.45
1:D:2122:SER:HA	1:D:3721:LEU:HD11	1.99	0.45
1:D:2552:ARG:HH11	1:D:2599:GLN:HE22	1.64	0.45
1:D:2952:GLU:HA	1:D:2957:PHE:CG	2.52	0.45
1:D:3552:PHE:O	1:D:3556:ASN:HB2	2.16	0.45
1:D:4174:PHE:HA	1:D:4177:TYR:CD2	2.51	0.45
1:D:4686:LEU:HA	1:D:4690:GLU:HB2	1.98	0.45
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.32	0.45
1:C:183:SER:OG	1:C:186:SER:OG	2.32	0.45
1:C:261:ARG:HB3	1:C:283:ARG:O	2.17	0.45
1:C:489:ASN:HB3	1:C:493:ARG:HH21	1.82	0.45
1:C:1154:ASP:HB3	1:C:1157:GLU:HB3	1.99	0.45
1:C:1286:MET:HG3	1:C:1288:PHE:CZ	2.52	0.45
1:C:1810:LYS:O	1:C:1814:MET:SD	2.75	0.45
1:C:2015:GLU:HA	1:C:2018:GLU:HB2	1.97	0.45
1:C:2107:GLN:NE2	1:C:3681:GLY:H	2.14	0.45
1:C:2433:LEU:HG	1:C:2505:PHE:HE2	1.80	0.45
1:C:2650:ARG:NH2	1:C:2651:CYS:SG	2.89	0.45
1:C:3174:SER:O	1:C:3177:THR:OG1	2.25	0.45
1:C:3185:LYS:HE3	1:C:3185:LYS:HB3	1.85	0.45
1:C:3750:GLU:H	1:C:3750:GLU:CD	2.25	0.45
1:C:4202:ARG:O	1:C:4206:GLU:HG2	2.16	0.45
1:C:4686:LEU:HA	1:C:4690:GLU:HB2	1.98	0.45
1:A:378:LEU:HD23	1:A:378:LEU:HA	1.86	0.45
1:A:554:LEU:HD11	1:A:1593:PRO:HD3	1.99	0.45
1:A:1426:ILE:O	1:A:1430:THR:HG22	2.15	0.45
1:A:1716:ILE:HG23	1:A:1847:THR:HG21	1.98	0.45
1:A:2130:GLY:HA2	1:A:2133:GLU:CD	2.42	0.45
1:A:2165:LEU:HD12	1:A:2165:LEU:HA	1.71	0.45
1:A:2287:ALA:O	1:A:2290:LEU:HB2	2.17	0.45
1:A:2423:MET:CE	1:A:2494:PHE:HA	2.29	0.45
1:A:2870[B]:GLU:OE2	1:A:2939:ARG:NE	2.50	0.45
1:A:3514:LEU:HA	1:A:3517:MET:CG	2.47	0.45
1:A:3522:LEU:CD2	1:B:1220:GLN:OE1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3552:PHE:O	1:A:3556:ASN:HB2	2.16	0.45
1:A:3735:LEU:HB3	1:A:3766:GLN:NE2	2.30	0.45
1:A:4755:GLU:OE1	1:A:4755:GLU:N	2.33	0.45
2:F:41:ASP:HB3	1:B:1690:ASP:OD1	2.16	0.45
1:B:441:VAL:O	1:B:445:LEU:HG	2.17	0.45
1:B:463:GLU:OE1	1:B:463:GLU:N	2.37	0.45
1:B:960:MET:HE3	1:B:960:MET:N	2.31	0.45
1:B:1000:ARG:HB3	1:B:1021:LEU:HD12	1.99	0.45
1:B:1085:SER:OG	1:B:1086:GLY:N	2.50	0.45
1:B:1237:TRP:HE3	1:B:1605:TRP:HB3	1.82	0.45
1:B:1252:HIS:CE1	1:B:1255:TYR:HD2	2.34	0.45
1:D:252:VAL:HA	1:D:255:HIS:CD2	2.51	0.45
1:D:595:ARG:HH22	1:D:1661:ARG:HH12	1.64	0.45
1:D:1039:LEU:O	1:D:1043:VAL:HG23	2.17	0.45
1:D:1126:GLY:HA3	1:D:1143:TRP:CD2	2.51	0.45
1:D:1141:ARG:NH2	1:C:3478:MET:CE	2.73	0.45
1:D:1220:GLN:CG	1:C:3522:LEU:HB3	2.47	0.45
1:D:1568:LYS:HE3	1:D:1568:LYS:HA	1.97	0.45
1:D:1705:GLY:HA2	1:D:1708:ARG:HG2	1.97	0.45
1:D:1739:THR:HB	1:D:1742:THR:H	1.80	0.45
1:D:2121:PHE:CZ	1:D:3701:LEU:HB2	2.51	0.45
1:D:2579:VAL:O	1:D:2582:MET:SD	2.74	0.45
1:D:2585:THR:O	1:D:2589:LEU:HG	2.17	0.45
1:D:2615:ARG:HB2	1:D:2618:MET:HG3	1.98	0.45
1:D:3411:LEU:HD12	1:D:3412:LEU:H	1.81	0.45
1:D:3644:LEU:HD21	1:D:3652:MET:SD	2.57	0.45
1:D:3813:GLN:NE2	1:D:3890:LEU:O	2.50	0.45
1:D:3950:ASN:O	1:D:3953:LYS:HG2	2.16	0.45
1:D:4837:LEU:HG	1:D:4935:LEU:HD22	1.99	0.45
1:C:168:ASP:HB3	1:C:199:LEU:HD21	1.98	0.45
1:C:623:GLU:OE2	1:C:1680:ARG:NH1	2.49	0.45
1:C:697:GLY:HA2	1:C:1636:MET:HE2	1.97	0.45
1:C:1111:PRO:HD3	1:C:1605:TRP:NE1	2.31	0.45
1:C:2130:GLY:HA2	1:C:2133:GLU:CD	2.42	0.45
1:C:2287:ALA:O	1:C:2290:LEU:HB2	2.17	0.45
1:C:2312:MET:O	1:C:2316:LYS:N	2.46	0.45
1:C:2574:HIS:CD2	1:C:2574:HIS:H	2.35	0.45
1:C:2883:HIS:CE1	1:C:2905:LEU:HD22	2.48	0.45
1:C:3179:LYS:HD3	1:C:3179:LYS:N	2.31	0.45
1:C:3308:THR:OG1	1:C:3310:ASP:OD2	2.16	0.45
1:C:3893:GLU:HA	1:C:3967:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:437:PRO:O	1:A:441:VAL:HG12	2.16	0.45
1:A:441:VAL:O	1:A:445:LEU:HG	2.17	0.45
1:A:579:GLN:HE22	1:A:582:HIS:CE1	2.35	0.45
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.17	0.45
1:A:1111:PRO:HD3	1:A:1605:TRP:NE1	2.31	0.45
1:A:1131:ARG:C	1:A:1132:TRP:HD1	2.25	0.45
1:A:1213:PHE:HD1	1:A:1216:ILE:HD12	1.82	0.45
1:A:1237:TRP:HE3	1:A:1605:TRP:HB3	1.82	0.45
1:A:1476:MET:O	1:A:1484:HIS:N	2.49	0.45
1:A:1691:GLN:O	1:A:1695:LEU:HG	2.17	0.45
1:A:1843:LYS:HE2	1:A:1938:GLN:HG2	1.98	0.45
1:A:2231:SER:HA	1:A:2234:ARG:NE	2.32	0.45
1:A:2496:PRO:HB3	1:A:2553:TYR:CE2	2.52	0.45
1:A:2500:ALA:HB2	1:A:2553:TYR:HD1	1.80	0.45
1:A:2751:LEU:O	1:A:2755:ILE:HG13	2.17	0.45
1:A:2819:TRP:C	1:A:2820:GLU:HG3	2.42	0.45
1:A:3369:ALA:O	1:A:3373:VAL:HG13	2.17	0.45
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.16	0.45
1:A:4698:LYS:HD3	1:A:4698:LYS:N	2.31	0.45
1:A:4961:CYS:SG	1:A:4963:ILE:HD12	2.57	0.45
1:B:23:GLN:HB3	1:B:34:LYS:HZ3	1.82	0.45
1:B:489:ASN:HB3	1:B:493:ARG:HH21	1.82	0.45
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.17	0.45
1:B:1101:ARG:HD3	1:B:1125:ASN:HB2	1.98	0.45
1:B:1280:GLN:OE1	1:B:1281:ASN:N	2.38	0.45
1:B:1716:ILE:HG23	1:B:1847:THR:HG21	1.98	0.45
1:B:2094:LEU:HD23	1:B:2094:LEU:H	1.81	0.45
1:B:2301:TYR:HB3	1:B:2331:TYR:CE2	2.51	0.45
1:B:2585:THR:O	1:B:2589:LEU:HG	2.17	0.45
1:B:2760:GLU:HG2	1:B:2797:PHE:CZ	2.52	0.45
1:B:3571:TRP:HE3	1:B:3575:LEU:HD23	1.81	0.45
1:B:4668:LEU:O	1:B:4672:LYS:HG3	2.16	0.45
1:B:4686:LEU:HA	1:B:4690:GLU:HB2	1.98	0.45
1:D:1119:GLU:OE2	1:D:1119:GLU:N	2.47	0.45
1:D:2036:GLN:NE2	1:D:2045:GLN:OE1	2.50	0.45
1:D:2094:LEU:HD23	1:D:2094:LEU:H	1.81	0.45
1:D:2130:GLY:HA2	1:D:2133:GLU:CD	2.42	0.45
1:D:3573:MET:HA	1:D:3573:MET:HE3	1.98	0.45
1:D:3999:MET:N	1:D:3999:MET:SD	2.90	0.45
1:D:4866:SER:OG	1:D:4868:ASP:O	2.33	0.45
1:C:230:CYS:SG	1:C:258:SER:HB2	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:474:ARG:O	1:C:478:PHE:HD1	1.99	0.45
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.17	0.45
1:C:1454:THR:OG1	1:C:1491:ASN:O	2.27	0.45
1:C:1691:GLN:O	1:C:1695:LEU:HG	2.17	0.45
1:C:1843:LYS:HE2	1:C:1938:GLN:HG2	1.98	0.45
1:C:1924:GLU:N	1:C:1924:GLU:OE2	2.48	0.45
1:C:2384:ILE:HG22	1:C:2388:GLU:OE2	2.16	0.45
1:C:2615:ARG:HB2	1:C:2618:MET:HG3	1.98	0.45
1:C:2870[B]:GLU:OE2	1:C:2939:ARG:NE	2.50	0.45
1:C:3253:ILE:HG22	1:C:3318:ASN:HB3	1.99	0.45
1:C:3368:ARG:HH22	1:C:3405:LEU:HD11	1.81	0.45
1:C:3644:LEU:HD21	1:C:3652:MET:SD	2.57	0.45
1:C:3768:SER:HA	1:C:3771:HIS:CD2	2.52	0.45
1:C:3787:LYS:HE3	1:C:3787:LYS:HB2	1.57	0.45
1:C:3813:GLN:NE2	1:C:3890:LEU:O	2.50	0.45
1:C:3821:LYS:O	1:C:3824:LYS:HE3	2.17	0.45
1:C:3950:ASN:O	1:C:3953:LYS:HG2	2.16	0.45
1:C:4634:GLU:HG2	1:C:4639:MET:HG2	1.98	0.45
1:C:4961:CYS:SG	1:C:4963:ILE:HD12	2.57	0.45
1:A:23:GLN:HB3	1:A:34:LYS:HZ3	1.82	0.45
1:A:421:PHE:HE2	1:A:436:LEU:HD21	1.82	0.45
1:A:874:LEU:HD22	1:A:1049:TYR:CE2	2.51	0.45
1:A:1000:ARG:HB3	1:A:1021:LEU:HD12	1.99	0.45
1:A:1237:TRP:CE2	1:A:1607:ARG:HB2	2.52	0.45
1:A:1447:CYS:HB3	1:A:1555:LEU:HB3	1.99	0.45
1:A:1973:GLN:OE1	1:A:3641:LEU:HG	2.17	0.45
1:A:2967:MET:HA	1:A:2970:SER:HB3	1.97	0.45
1:A:3768:SER:HA	1:A:3771:HIS:CD2	2.52	0.45
1:A:4184:MET:SD	1:A:4188:ARG:NH2	2.77	0.45
1:A:4879:MET:CG	1:D:4578:LEU:HD12	2.43	0.45
2:E:71:ARG:HA	2:E:102:GLU:OE2	2.16	0.45
2:G:7:ILE:CB	1:C:719:LEU:HD21	2.46	0.45
1:B:267:ILE:O	1:B:270:SER:OG	2.24	0.45
1:B:403:MET:HE3	1:B:403:MET:HB3	1.79	0.45
1:B:1476:MET:O	1:B:1484:HIS:N	2.49	0.45
1:B:1623:ARG:NH2	1:B:1624:LEU:HA	2.32	0.45
1:B:1966:VAL:HG11	1:B:3650:CYS:SG	2.57	0.45
1:B:2287:ALA:O	1:B:2290:LEU:HB2	2.17	0.45
1:B:2819:TRP:C	1:B:2820:GLU:HG3	2.42	0.45
1:B:2902:HIS:CD2	1:B:2905:LEU:HG	2.52	0.45
1:B:3369:ALA:O	1:B:3373:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3504:SER:O	1:B:3508:SER:N	2.48	0.45
1:B:4553:ASN:C	1:B:4557:ARG:HE	2.24	0.45
1:B:4673:ARG:NH1	1:B:4782:VAL:HG22	2.32	0.45
1:B:4961:CYS:SG	1:B:4963:ILE:HD12	2.57	0.45
1:D:244:LEU:HB2	1:D:246:TYR:CZ	2.52	0.45
1:D:1000:ARG:HB3	1:D:1021:LEU:HD12	1.99	0.45
1:D:1252:HIS:CE1	1:D:1255:TYR:HD2	2.34	0.45
1:D:1843:LYS:HE2	1:D:1938:GLN:HG2	1.98	0.45
1:D:2015:GLU:HA	1:D:2018:GLU:HB2	1.97	0.45
1:D:2088:GLU:OE1	1:D:2088:GLU:N	2.50	0.45
1:D:2358:ILE:HG13	1:D:2359:ARG:NE	2.28	0.45
1:D:2496:PRO:HB3	1:D:2553:TYR:CE2	2.52	0.45
1:D:2555:CYS:CB	1:D:2599:GLN:HE21	2.27	0.45
1:D:2574:HIS:H	1:D:2574:HIS:CD2	2.35	0.45
1:D:3062:PRO:O	1:D:3065:VAL:HG22	2.17	0.45
1:D:3243:ILE:H	1:D:3243:ILE:HD12	1.82	0.45
1:D:3821:LYS:O	1:D:3824:LYS:HE3	2.17	0.45
1:D:4562:LEU:HD23	1:D:4657:CYS:SG	2.57	0.45
1:D:4716:TRP:CG	6:D:5304:A1BD2:C4	2.99	0.45
1:D:4755:GLU:OE1	1:D:4755:GLU:N	2.33	0.45
1:D:4902:GLU:H	1:D:4902:GLU:CD	2.17	0.45
1:C:554:LEU:HD11	1:C:1593:PRO:HD3	1.99	0.45
1:C:1131:ARG:C	1:C:1132:TRP:HD1	2.25	0.45
1:C:2189:LYS:HZ1	1:C:2193:GLN:HB2	1.82	0.45
1:C:2496:PRO:HB3	1:C:2553:TYR:CE2	2.52	0.45
1:C:3053:ARG:HD3	1:C:3056:LEU:HD13	1.99	0.45
1:C:4682:GLU:OE1	1:C:4723:LYS:HE2	2.17	0.45
1:C:4715:TYR:CE2	1:C:4717:ASP:HB3	2.51	0.45
1:A:1230:MET:HG3	1:A:1234:VAL:HG23	1.99	0.45
1:A:1433:TYR:CE2	1:A:1573:MET:HB2	2.51	0.45
1:A:1660:GLN:O	1:A:1660:GLN:NE2	2.48	0.45
1:A:2122:SER:HA	1:A:3721:LEU:HD11	1.99	0.45
1:A:2170:MET:SD	1:A:2171:GLY:N	2.90	0.45
1:A:2312:MET:O	1:A:2316:LYS:N	2.46	0.45
1:A:2585:THR:O	1:A:2589:LEU:HG	2.17	0.45
1:A:2630:VAL:HG11	1:A:2678:LEU:HD22	1.98	0.45
1:A:3062:PRO:O	1:A:3065:VAL:HG22	2.17	0.45
1:A:3081:MET:HA	1:A:3089:LYS:HZ2	1.82	0.45
1:A:3172:ILE:HD12	1:A:3173:TYR:N	2.32	0.45
1:A:3442:PHE:CZ	1:A:3605:HIS:HB3	2.52	0.45
1:A:3533:ILE:HG22	1:A:3537:LYS:HZ2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4060:LYS:HA	1:A:4063:ASP:OD2	2.17	0.45
1:A:4189:ARG:HH12	1:A:4191:GLU:HG3	1.81	0.45
1:A:4813:LEU:O	1:A:4816:ILE:HG22	2.17	0.45
1:B:230:CYS:SG	1:B:258:SER:HB2	2.57	0.45
1:B:1213:PHE:HD1	1:B:1216:ILE:HD12	1.82	0.45
1:B:1251:GLU:OE1	1:B:1251:GLU:N	2.34	0.45
1:B:1601:MET:HE3	1:B:1604:SER:HB3	1.99	0.45
1:B:2130:GLY:HA2	1:B:2133:GLU:CD	2.42	0.45
1:B:2384:ILE:HG22	1:B:2388:GLU:OE2	2.16	0.45
1:B:2423:MET:CE	1:B:2494:PHE:HA	2.29	0.45
1:B:2552:ARG:HH11	1:B:2599:GLN:HE22	1.64	0.45
1:B:2870[B]:GLU:OE2	1:B:2939:ARG:NE	2.50	0.45
1:B:3035:GLU:O	1:B:3038:MET:HG3	2.17	0.45
1:B:3053:ARG:HD3	1:B:3056:LEU:HD13	1.99	0.45
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.17	0.45
1:D:954:LYS:HA	1:D:954:LYS:HD2	1.75	0.45
1:D:1154:ASP:HB3	1:D:1157:GLU:HB3	1.99	0.45
1:D:1433:TYR:CE2	1:D:1573:MET:HB2	2.51	0.45
1:D:2005:GLN:O	1:D:2009:LEU:HG	2.17	0.45
1:D:2627:VAL:HA	1:D:2678:LEU:HD11	1.98	0.45
1:D:2650:ARG:NH2	1:D:2651:CYS:SG	2.89	0.45
1:D:2960:LEU:HD12	1:D:3035:GLU:HG2	1.99	0.45
1:D:3015:LEU:HB3	1:D:3026:GLY:HA2	1.99	0.45
1:D:3051:ARG:HA	1:D:3131:TYR:OH	2.17	0.45
1:D:3172:ILE:HD12	1:D:3173:TYR:N	2.32	0.45
1:D:4715:TYR:CE2	1:D:4717:ASP:HB3	2.51	0.45
1:C:472:ARG:NH2	1:C:533:ASN:HA	2.31	0.45
1:C:579:GLN:HE22	1:C:582:HIS:CE1	2.35	0.45
1:C:765:GLN:H	1:C:765:GLN:CD	2.19	0.45
1:C:2608:MET:HE2	1:C:2643:LEU:HD23	1.98	0.45
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.17	0.45
1:C:3316:LEU:HD22	1:C:3346:VAL:HA	1.99	0.45
1:C:3514:LEU:HA	1:C:3517:MET:CG	2.47	0.45
1:C:3535:LEU:HD23	1:C:3556:ASN:HD21	1.81	0.45
1:C:3655:GLU:O	1:C:3658:LYS:HG2	2.17	0.45
1:C:3923:LEU:O	1:C:3927:GLN:HG3	2.17	0.45
1:C:4578:LEU:HD12	1:C:4579:PHE:H	1.82	0.45
1:C:4813:LEU:O	1:C:4816:ILE:HG22	2.17	0.45
1:A:244:LEU:HB2	1:A:246:TYR:CZ	2.52	0.45
1:A:382:GLY:O	1:A:383:HIS:ND1	2.48	0.45
1:A:474:ARG:O	1:A:478:PHE:HD1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1286:MET:HG3	1:A:1288:PHE:CZ	2.52	0.45
1:A:1452:TRP:CD1	1:A:1452:TRP:N	2.85	0.45
1:A:1623:ARG:NH2	1:A:1624:LEU:HA	2.32	0.45
1:A:2293:GLN:O	1:A:2296:GLU:HB2	2.17	0.45
1:A:2627:VAL:HA	1:A:2678:LEU:HD11	1.98	0.45
1:A:2902:HIS:CD2	1:A:2905:LEU:HG	2.52	0.45
1:A:2960:LEU:HD12	1:A:3035:GLU:HG2	1.99	0.45
1:A:2997:PHE:O	1:A:3001:ILE:HB	2.17	0.45
1:A:3035:GLU:O	1:A:3038:MET:HG3	2.17	0.45
1:A:3539:ARG:O	1:A:3542:LEU:HB2	2.16	0.45
1:A:3719:ASP:OD2	1:A:3722:TYR:N	2.49	0.45
1:A:3889:GLN:NE2	1:A:3967:GLU:HB2	2.32	0.45
1:A:4085:ARG:HB2	1:A:4087:LEU:HD23	1.99	0.45
1:A:4562:LEU:HD23	1:A:4657:CYS:SG	2.57	0.45
1:A:4584:ASP:OD1	1:A:4584:ASP:N	2.50	0.45
1:A:4686:LEU:HA	1:A:4690:GLU:HB2	1.98	0.45
1:A:4716:TRP:CG	6:A:5304:A1BD2:C4	2.99	0.45
2:H:40:ARG:HH21	2:H:102:GLU:HG2	1.81	0.45
1:B:244:LEU:HB2	1:B:246:TYR:CZ	2.52	0.45
1:B:342:GLY:HA2	1:B:390:LEU:O	2.17	0.45
1:B:1237:TRP:CE2	1:B:1607:ARG:HB2	2.52	0.45
1:B:2088:GLU:N	1:B:2088:GLU:OE1	2.50	0.45
1:B:2231:SER:HB3	1:B:2234:ARG:HH21	1.82	0.45
1:B:2608:MET:HE2	1:B:2643:LEU:HD23	1.99	0.45
1:B:3059:THR:O	1:B:3062:PRO:HD2	2.17	0.45
1:B:3062:PRO:O	1:B:3065:VAL:HG22	2.17	0.45
1:B:3327:LEU:HB2	1:B:3364:ARG:NH2	2.32	0.45
1:B:3368:ARG:HH22	1:B:3405:LEU:HD11	1.81	0.45
1:B:3428:ASN:OD1	1:B:3431:ALA:N	2.45	0.45
1:B:3923:LEU:O	1:B:3927:GLN:HG3	2.17	0.45
1:B:4627:MET:H	1:B:4627:MET:CE	2.26	0.45
1:B:4904:PRO:HB2	1:B:4910:GLU:HB2	1.99	0.45
1:D:276:TRP:H	1:D:338:GLU:HG2	1.81	0.45
1:D:332:GLU:H	1:D:332:GLU:CD	2.24	0.45
1:D:1085:SER:OG	1:D:1086:GLY:N	2.50	0.45
1:D:1220:GLN:CD	1:C:3522:LEU:HB3	2.42	0.45
1:D:1252:HIS:HE1	1:D:1255:TYR:CD2	2.34	0.45
1:D:1810:LYS:O	1:D:1814:MET:SD	2.75	0.45
1:D:2189:LYS:NZ	1:D:2192:TYR:HB2	2.29	0.45
1:D:2502:MET:N	1:D:2502:MET:SD	2.89	0.45
1:D:2608:MET:HE2	1:D:2643:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3514:LEU:HA	1:D:3517:MET:CG	2.46	0.45
1:D:3652:MET:HG2	1:D:3652:MET:H	1.60	0.45
1:D:4189:ARG:HH12	1:D:4191:GLU:HG3	1.81	0.45
1:D:4553:ASN:C	1:D:4557:ARG:HE	2.24	0.45
1:D:4634:GLU:HG2	1:D:4639:MET:HG2	1.98	0.45
1:D:4673:ARG:NH1	1:D:4782:VAL:HG22	2.32	0.45
1:D:4995:LEU:HD22	1:D:5003:HIS:CE1	2.52	0.45
1:C:15:ARG:HD3	1:C:16:THR:N	2.31	0.45
1:C:484:LEU:HD23	1:C:539:LEU:HD12	1.99	0.45
1:C:734:GLY:O	1:C:736:HIS:ND1	2.50	0.45
1:C:2760:GLU:HG2	1:C:2797:PHE:CZ	2.52	0.45
1:C:3573:MET:HA	1:C:3573:MET:HE3	1.98	0.45
1:C:4562:LEU:HD23	1:C:4657:CYS:SG	2.57	0.45
1:A:664:PHE:CE2	1:A:779:PRO:HB3	2.53	0.44
1:A:1966:VAL:HG11	1:A:3650:CYS:SG	2.57	0.44
1:A:2107:GLN:NE2	1:A:3681:GLY:H	2.15	0.44
1:A:2902:HIS:HB3	1:A:2905:LEU:HB2	1.99	0.44
1:A:3179:LYS:HD3	1:A:3179:LYS:N	2.31	0.44
1:A:3232:LEU:HD13	1:A:3232:LEU:HA	1.84	0.44
1:A:3253:ILE:HG22	1:A:3318:ASN:HB3	1.99	0.44
1:A:3944:GLU:CD	1:A:3946:GLN:H	2.23	0.44
1:A:4904:PRO:HB2	1:A:4910:GLU:HB2	1.99	0.44
1:B:510:GLU:OE1	1:B:510:GLU:N	2.49	0.44
1:B:931:THR:HG21	1:B:991:ASN:HD22	1.81	0.44
1:B:1496:TRP:CE2	1:B:1498:GLY:HA3	2.52	0.44
1:B:1691:GLN:O	1:B:1695:LEU:HG	2.17	0.44
1:B:2231:SER:HA	1:B:2234:ARG:NE	2.31	0.44
1:B:3368:ARG:HA	1:B:3371:LYS:HE2	1.98	0.44
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.52	0.44
1:B:3821:LYS:O	1:B:3824:LYS:HE3	2.17	0.44
1:B:3889:GLN:NE2	1:B:3967:GLU:HB2	2.32	0.44
1:B:4682:GLU:OE1	1:B:4723:LYS:HE2	2.17	0.44
1:D:579:GLN:HB2	1:D:581:ASN:OD1	2.17	0.44
1:D:1033:ARG:HA	1:D:1036:ARG:NH1	2.32	0.44
1:D:1973:GLN:OE1	1:D:3641:LEU:HG	2.17	0.44
1:D:2751:LEU:O	1:D:2755:ILE:HG13	2.17	0.44
1:D:3059:THR:O	1:D:3062:PRO:HD2	2.17	0.44
1:D:3621:HIS:CE1	1:D:3623:LEU:HD23	2.52	0.44
1:D:3893:GLU:HA	1:D:3967:GLU:OE1	2.17	0.44
1:D:4627:MET:H	1:D:4627:MET:CE	2.26	0.44
1:D:4723:LYS:HB2	1:D:4723:LYS:HE2	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4813:LEU:O	1:D:4816:ILE:HG22	2.17	0.44
1:C:342:GLY:HA2	1:C:390:LEU:O	2.17	0.44
1:C:613:ALA:HB3	1:C:1676:LEU:HD13	1.99	0.44
1:C:1085:SER:OG	1:C:1086:GLY:N	2.50	0.44
1:C:1252:HIS:CE1	1:C:1255:TYR:HD2	2.34	0.44
1:C:2328:GLY:HA3	1:C:2425:PHE:HE2	1.81	0.44
1:C:2819:TRP:C	1:C:2820:GLU:HG3	2.42	0.44
1:C:3172:ILE:HD12	1:C:3173:TYR:N	2.32	0.44
1:C:4189:ARG:HH12	1:C:4191:GLU:HG3	1.81	0.44
1:C:4553:ASN:C	1:C:4557:ARG:HE	2.24	0.44
1:A:910:PHE:HB2	1:A:918:ARG:HD3	1.98	0.44
1:A:1496:TRP:CE2	1:A:1498:GLY:HA3	2.52	0.44
1:A:2237:CYS:HA	1:A:2240:CYS:SG	2.57	0.44
1:A:3015:LEU:HB3	1:A:3026:GLY:HA2	1.99	0.44
1:A:3575:LEU:HD21	1:B:1208:VAL:CG1	2.47	0.44
1:A:3621:HIS:CE1	1:A:3623:LEU:HD23	2.52	0.44
1:A:3923:LEU:O	1:A:3927:GLN:HG3	2.17	0.44
1:A:4837:LEU:HG	1:A:4935:LEU:HD22	1.99	0.44
1:A:4995:LEU:HD22	1:A:5003:HIS:CE1	2.52	0.44
2:G:84:ALA:O	2:G:93:PRO:HB3	2.17	0.44
1:B:179:TYR:HB3	1:B:197:GLN:HA	1.99	0.44
1:B:411:TYR:HE1	1:B:441:VAL:HG23	1.83	0.44
1:B:579:GLN:HB2	1:B:581:ASN:OD1	2.17	0.44
1:B:613:ALA:HB3	1:B:1676:LEU:HD13	2.00	0.44
1:B:738:LEU:H	1:B:738:LEU:HD12	1.83	0.44
1:B:1033:ARG:HA	1:B:1036:ARG:NH1	2.32	0.44
1:B:2107:GLN:NE2	1:B:3683:GLN:OE1	2.31	0.44
1:B:2170:MET:SD	1:B:2171:GLY:N	2.90	0.44
1:B:2336:ARG:HG3	1:B:2431:ASP:OD2	2.17	0.44
1:B:2481:LYS:O	1:B:2482:ASP:CG	2.61	0.44
1:B:2997:PHE:O	1:B:3001:ILE:HB	2.17	0.44
1:B:3046:LEU:O	1:B:3050:VAL:HG12	2.17	0.44
1:B:3655:GLU:O	1:B:3658:LYS:HG2	2.17	0.44
1:B:3813:GLN:NE2	1:B:3890:LEU:O	2.50	0.44
1:B:4189:ARG:HH12	1:B:4191:GLU:HG3	1.81	0.44
1:B:4562:LEU:HD23	1:B:4657:CYS:SG	2.57	0.44
1:B:4864:ASN:O	1:B:4865:LYS:HD3	2.18	0.44
1:D:734:GLY:O	1:D:736:HIS:ND1	2.50	0.44
1:D:892:THR:O	1:D:904:HIS:N	2.50	0.44
1:D:1131:ARG:C	1:D:1132:TRP:HD1	2.25	0.44
1:D:1452:TRP:CD1	1:D:1452:TRP:N	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1452:TRP:CZ3	1:D:1550:PRO:HG3	2.52	0.44
1:D:1601:MET:HE3	1:D:1604:SER:HB3	1.99	0.44
1:D:2231:SER:HA	1:D:2234:ARG:NE	2.31	0.44
1:D:2381:GLU:HB2	1:D:2385:ARG:HH21	1.83	0.44
1:D:2503:VAL:HG11	1:D:2557:ALA:HB1	2.00	0.44
1:D:2630:VAL:HG11	1:D:2678:LEU:HD22	1.98	0.44
1:D:2870[B]:GLU:OE2	1:D:2939:ARG:NE	2.50	0.44
1:D:3384:LYS:HG3	1:D:3386:GLU:H	1.82	0.44
1:D:3906:GLN:NE2	1:D:3913:ILE:O	2.44	0.44
1:D:4060:LYS:HA	1:D:4063:ASP:OD2	2.17	0.44
1:D:4682:GLU:OE1	1:D:4723:LYS:HE2	2.17	0.44
1:D:4821:LYS:O	1:D:4821:LYS:HD3	2.18	0.44
1:D:4961:CYS:SG	1:D:4963:ILE:HD12	2.57	0.44
1:C:459:LEU:HB2	1:C:464:LYS:HG3	2.00	0.44
1:C:1033:ARG:HA	1:C:1036:ARG:NH1	2.32	0.44
1:C:1039:LEU:O	1:C:1043:VAL:HG23	2.17	0.44
1:C:1132:TRP:CG	1:C:1136:SER:HG	2.34	0.44
1:C:1452:TRP:CZ3	1:C:1550:PRO:HG3	2.52	0.44
1:C:1568:LYS:HA	1:C:1568:LYS:HE3	1.98	0.44
1:C:1623:ARG:NH2	1:C:1624:LEU:HA	2.32	0.44
1:C:1973:GLN:OE1	1:C:3641:LEU:HG	2.17	0.44
1:C:2094:LEU:HA	1:C:2097:LEU:HG	2.00	0.44
1:C:2336:ARG:HG3	1:C:2431:ASP:OD2	2.17	0.44
1:C:2555:CYS:CB	1:C:2599:GLN:HE21	2.27	0.44
1:C:2770:LYS:HA	1:C:2786:LYS:HZ3	1.82	0.44
1:C:2825:LYS:HE3	1:C:2936:ALA:H	1.82	0.44
1:C:3369:ALA:O	1:C:3373:VAL:HG13	2.17	0.44
1:C:3442:PHE:CZ	1:C:3605:HIS:HB3	2.52	0.44
1:C:3590:GLU:CD	1:C:3590:GLU:N	2.75	0.44
1:C:3629:ARG:O	1:C:3633:VAL:HG23	2.17	0.44
1:A:375:LYS:HD2	1:A:376:ALA:H	1.82	0.44
1:A:710:ASP:C	1:A:724:GLY:HA2	2.43	0.44
1:A:960:MET:HE3	1:A:960:MET:N	2.31	0.44
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.18	0.44
1:A:2088:GLU:OE1	1:A:2088:GLU:N	2.50	0.44
1:A:2760:GLU:HG2	1:A:2797:PHE:CZ	2.52	0.44
1:A:3080:VAL:O	1:A:3089:LYS:NZ	2.51	0.44
1:A:3243:ILE:H	1:A:3243:ILE:HD12	1.82	0.44
1:A:3384:LYS:HG3	1:A:3386:GLU:H	1.82	0.44
1:A:3384:LYS:CG	1:A:3386:GLU:HG3	2.48	0.44
1:A:3666:ASP:OD2	1:A:3667:HIS:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:21:THR:OG1	2:E:107:GLU:HB2	2.17	0.44
2:H:52:LYS:HB3	2:H:54:GLU:OE1	2.17	0.44
1:B:459:LEU:HB2	1:B:464:LYS:HG3	1.99	0.44
1:B:575:LEU:HD11	1:B:606:LEU:HD12	1.99	0.44
1:B:734:GLY:O	1:B:736:HIS:ND1	2.50	0.44
1:B:1581:LEU:HA	1:B:1584:ARG:HB2	1.99	0.44
1:B:2094:LEU:HA	1:B:2097:LEU:HG	2.00	0.44
1:B:3080:VAL:O	1:B:3089:LYS:NZ	2.51	0.44
1:B:3590:GLU:CD	1:B:3590:GLU:N	2.75	0.44
1:B:4150:LEU:HD23	1:B:4150:LEU:HA	1.76	0.44
1:B:4813:LEU:O	1:B:4816:ILE:HG22	2.17	0.44
1:D:179:TYR:HB3	1:D:197:GLN:HA	2.00	0.44
1:D:437:PRO:O	1:D:441:VAL:HG12	2.16	0.44
1:D:441:VAL:O	1:D:445:LEU:HG	2.17	0.44
1:D:459:LEU:HB2	1:D:464:LYS:HG3	2.00	0.44
1:D:579:GLN:HE22	1:D:582:HIS:CE1	2.35	0.44
1:D:681:HIS:O	1:D:784:SER:N	2.42	0.44
1:D:1111:PRO:HD3	1:D:1605:TRP:NE1	2.31	0.44
1:D:1237:TRP:CE2	1:D:1607:ARG:HB2	2.52	0.44
1:D:1581:LEU:HA	1:D:1584:ARG:HB2	1.99	0.44
1:D:1623:ARG:NH2	1:D:1624:LEU:HA	2.32	0.44
1:D:1658:ASP:OD1	1:D:1659:LEU:N	2.48	0.44
1:D:1966:VAL:HG11	1:D:3650:CYS:SG	2.57	0.44
1:D:2094:LEU:HA	1:D:2097:LEU:HG	2.00	0.44
1:D:2259:GLU:HB2	1:D:2297:LYS:HZ3	1.82	0.44
1:D:2287:ALA:HA	1:D:2290:LEU:HD12	1.99	0.44
1:D:2328:GLY:HA3	1:D:2425:PHE:HE2	1.81	0.44
1:D:3132:THR:HG23	1:D:3136:LEU:HB2	2.00	0.44
1:D:3253:ILE:HG22	1:D:3318:ASN:HB3	1.99	0.44
1:D:3316:LEU:HD22	1:D:3346:VAL:HA	1.99	0.44
1:D:3535:LEU:HD23	1:D:3556:ASN:HD21	1.81	0.44
1:D:3563:VAL:HG23	1:D:3569:LEU:HB3	1.98	0.44
1:D:3655:GLU:O	1:D:3658:LYS:HG2	2.17	0.44
1:D:3941:ASP:OD1	1:D:3941:ASP:N	2.51	0.44
1:D:4085:ARG:HB2	1:D:4087:LEU:HD23	1.99	0.44
1:C:229:GLU:CD	1:C:247:TYR:HB3	2.42	0.44
1:C:244:LEU:HB2	1:C:246:TYR:CZ	2.52	0.44
1:C:411:TYR:HE1	1:C:441:VAL:HG23	1.83	0.44
1:C:437:PRO:O	1:C:441:VAL:HG12	2.16	0.44
1:C:595:ARG:HH22	1:C:1661:ARG:HH12	1.64	0.44
1:C:1000:ARG:HB3	1:C:1021:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1966:VAL:HG11	1:C:3650:CYS:SG	2.57	0.44
1:C:2237:CYS:HA	1:C:2240:CYS:SG	2.57	0.44
1:C:2287:ALA:HA	1:C:2290:LEU:HD12	1.99	0.44
1:C:2980:VAL:HG11	1:C:2986:VAL:HG12	1.99	0.44
1:C:3384:LYS:HG3	1:C:3386:GLU:H	1.82	0.44
1:C:3889:GLN:NE2	1:C:3967:GLU:HB2	2.32	0.44
1:C:3941:ASP:OD1	1:C:3941:ASP:N	2.51	0.44
1:C:4821:LYS:O	1:C:4821:LYS:HD3	2.18	0.44
1:C:4866:SER:OG	1:C:4868:ASP:O	2.33	0.44
1:A:230:CYS:SG	1:A:258:SER:HB2	2.57	0.44
1:A:489:ASN:HB3	1:A:493:ARG:HH21	1.82	0.44
1:A:700:GLU:O	1:A:705:ASN:ND2	2.30	0.44
1:A:793:LEU:HD23	1:A:793:LEU:HA	1.83	0.44
1:A:1085:SER:OG	1:A:1086:GLY:N	2.50	0.44
1:A:1154:ASP:HB3	1:A:1157:GLU:HB3	1.99	0.44
1:A:1671:ARG:NE	1:A:1671:ARG:O	2.51	0.44
1:A:2094:LEU:HD23	1:A:2094:LEU:H	1.81	0.44
1:A:2825:LYS:HE3	1:A:2936:ALA:H	1.82	0.44
1:A:3172:ILE:HD13	1:A:3194:LEU:CD2	2.47	0.44
1:A:4645:CYS:O	1:A:4649:LEU:HG	2.17	0.44
1:A:4821:LYS:O	1:A:4821:LYS:HD3	2.18	0.44
2:F:74:LEU:N	2:F:99:PHE:O	2.32	0.44
1:B:229:GLU:CD	1:B:247:TYR:HB3	2.42	0.44
1:B:261:ARG:HB3	1:B:283:ARG:O	2.17	0.44
1:B:765:GLN:H	1:B:765:GLN:CD	2.19	0.44
1:B:1093:GLU:N	1:B:1201:HIS:O	2.35	0.44
1:B:1180:ARG:HB3	1:B:1181:GLU:CD	2.42	0.44
1:B:1748:PHE:CE1	1:B:1760:HIS:HA	2.53	0.44
1:B:1973:GLN:OE1	1:B:3641:LEU:HG	2.17	0.44
1:B:2825:LYS:HE3	1:B:2936:ALA:H	1.82	0.44
1:B:2883:HIS:CE1	1:B:2905:LEU:HD22	2.48	0.44
1:B:3384:LYS:CG	1:B:3386:GLU:HG3	2.48	0.44
1:B:3545:THR:OG1	1:B:3547:GLU:OE1	2.21	0.44
1:B:3750:GLU:CD	1:B:3750:GLU:H	2.25	0.44
1:B:4821:LYS:O	1:B:4821:LYS:HD3	2.18	0.44
1:D:38:ALA:HB2	1:D:65:CYS:SG	2.58	0.44
1:D:414:PHE:CZ	1:D:418:LEU:HD11	2.53	0.44
1:D:1131:ARG:NH1	1:D:1139:PHE:HB2	2.32	0.44
1:D:1671:ARG:NE	1:D:1671:ARG:O	2.51	0.44
1:D:1932:PRO:O	1:D:1936:LYS:HG3	2.18	0.44
1:D:2023:LEU:HD22	1:D:2027:ILE:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2420:HIS:O	1:D:2424:SER:OG	2.29	0.44
1:D:2474:LEU:HD13	1:D:2496:PRO:HG3	2.00	0.44
1:D:2579:VAL:HA	1:D:2582:MET:SD	2.58	0.44
1:D:2760:GLU:HG2	1:D:2797:PHE:CZ	2.52	0.44
1:D:2819:TRP:C	1:D:2820:GLU:HG3	2.42	0.44
1:D:3105:LYS:HB2	1:D:3105:LYS:HE2	1.80	0.44
1:D:3384:LYS:CG	1:D:3386:GLU:HG3	2.48	0.44
1:C:892:THR:O	1:C:904:HIS:N	2.50	0.44
1:C:931:THR:HG21	1:C:991:ASN:HD22	1.81	0.44
1:C:2005:GLN:O	1:C:2009:LEU:HG	2.17	0.44
1:C:3048:ALA:O	1:C:3051:ARG:HB3	2.18	0.44
1:C:3062:PRO:O	1:C:3065:VAL:HG22	2.17	0.44
1:C:3243:ILE:H	1:C:3243:ILE:HD12	1.82	0.44
1:C:3666:ASP:OD2	1:C:3667:HIS:N	2.50	0.44
1:C:4645:CYS:O	1:C:4649:LEU:HG	2.17	0.44
1:C:4673:ARG:NH1	1:C:4782:VAL:HG22	2.32	0.44
1:C:4864:ASN:O	1:C:4865:LYS:HD3	2.18	0.44
1:A:38:ALA:HB2	1:A:65:CYS:SG	2.58	0.44
1:A:484:LEU:HD23	1:A:539:LEU:HD12	1.99	0.44
1:A:1932:PRO:O	1:A:1936:LYS:HG3	2.18	0.44
1:A:2094:LEU:HA	1:A:2097:LEU:HG	2.00	0.44
1:A:2675:THR:HG22	1:A:2710:LEU:HD21	2.00	0.44
1:A:2980:VAL:HG11	1:A:2986:VAL:HG12	1.99	0.44
1:A:3134:VAL:O	1:A:3138:PRO:HG2	2.18	0.44
1:A:3219:TYR:OH	1:A:3235:SER:N	2.51	0.44
1:A:3445:TRP:HA	1:A:3451:PHE:CD2	2.53	0.44
1:A:3573:MET:HA	1:A:3573:MET:HE3	1.98	0.44
1:A:3813:GLN:NE2	1:A:3890:LEU:O	2.50	0.44
1:A:3999:MET:N	1:A:3999:MET:SD	2.90	0.44
2:H:55:VAL:HG13	1:D:1783:VAL:HG12	1.99	0.44
2:H:105:LYS:HD2	2:H:105:LYS:HA	1.68	0.44
1:B:414:PHE:CZ	1:B:418:LEU:HD11	2.53	0.44
1:B:579:GLN:HE22	1:B:582:HIS:CE1	2.35	0.44
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.52	0.44
1:B:663:TYR:CD2	1:B:804:PRO:HB3	2.53	0.44
1:B:892:THR:O	1:B:904:HIS:N	2.51	0.44
1:B:1154:ASP:HB3	1:B:1157:GLU:HB3	1.99	0.44
1:B:1230:MET:HG3	1:B:1234:VAL:HG23	1.99	0.44
1:B:1286:MET:HG3	1:B:1288:PHE:CZ	2.52	0.44
1:B:1660:GLN:O	1:B:1660:GLN:NE2	2.48	0.44
1:B:2005:GLN:O	1:B:2009:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2503:VAL:HG11	1:B:2557:ALA:HB1	2.00	0.44
1:B:2600:ARG:HA	1:B:2603:ILE:HD12	2.00	0.44
1:B:2770:LYS:HA	1:B:2786:LYS:HZ3	1.83	0.44
1:B:2960:LEU:HD12	1:B:3035:GLU:HG2	1.99	0.44
1:B:3132:THR:HG23	1:B:3136:LEU:HB2	2.00	0.44
1:B:3540:TYR:CZ	1:B:3549:VAL:HG21	2.53	0.44
1:B:3629:ARG:O	1:B:3633:VAL:HG23	2.18	0.44
1:D:392:ARG:HD2	1:D:393:CYS:N	2.33	0.44
1:D:551:LEU:HB3	1:D:589:LEU:HD11	1.99	0.44
1:D:829:TYR:O	1:D:840:VAL:N	2.45	0.44
1:D:2293:GLN:O	1:D:2296:GLU:HB2	2.17	0.44
1:D:2825:LYS:HE3	1:D:2936:ALA:H	1.82	0.44
1:D:3048:ALA:O	1:D:3051:ARG:HB3	2.18	0.44
1:D:5012:LYS:HE2	1:D:5012:LYS:HA	1.98	0.44
1:C:316:PHE:HB3	1:C:346:CYS:SG	2.58	0.44
1:C:575:LEU:HA	1:C:575:LEU:HD12	1.76	0.44
1:C:738:LEU:H	1:C:738:LEU:HD12	1.83	0.44
1:C:1932:PRO:O	1:C:1936:LYS:HG3	2.18	0.44
1:C:2552:ARG:HH11	1:C:2599:GLN:HE22	1.64	0.44
1:C:3035:GLU:O	1:C:3038:MET:HG3	2.17	0.44
1:C:3046:LEU:O	1:C:3050:VAL:HG12	2.17	0.44
1:C:3134:VAL:O	1:C:3138:PRO:HG2	2.18	0.44
1:C:3384:LYS:CG	1:C:3386:GLU:HG3	2.48	0.44
1:C:3571:TRP:HE3	1:C:3575:LEU:HD23	1.81	0.44
1:C:3999:MET:N	1:C:3999:MET:SD	2.90	0.44
1:A:316:PHE:HB3	1:A:346:CYS:SG	2.58	0.44
1:A:414:PHE:CZ	1:A:418:LEU:HD11	2.53	0.44
1:A:462:GLU:OE2	1:A:462:GLU:N	2.38	0.44
1:A:1033:ARG:HA	1:A:1036:ARG:NH1	2.32	0.44
1:A:1252:HIS:CE1	1:A:1255:TYR:HD2	2.34	0.44
1:A:2336:ARG:HG3	1:A:2431:ASP:OD2	2.17	0.44
1:A:2552:ARG:HH11	1:A:2599:GLN:HE22	1.64	0.44
1:A:2608:MET:HE2	1:A:2643:LEU:HD23	1.99	0.44
1:A:2770:LYS:HB3	1:A:2786:LYS:HZ2	1.83	0.44
1:A:3368:ARG:O	1:A:3372:VAL:HG22	2.18	0.44
1:A:3527:PRO:HA	1:A:3530:GLN:CG	2.48	0.44
1:A:3629:ARG:O	1:A:3633:VAL:HG23	2.18	0.44
1:A:4124:ASN:ND2	1:A:4126:GLU:OE2	2.51	0.44
1:A:4232:GLU:HB2	1:A:5019:TRP:HE1	1.83	0.44
1:A:4682:GLU:OE1	1:A:4723:LYS:HE2	2.17	0.44
1:B:421:PHE:HE2	1:B:436:LEU:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:LEU:HD23	1:B:539:LEU:HD12	1.99	0.44
1:B:983:THR:O	1:B:987:ARG:HG3	2.18	0.44
1:B:1452:TRP:CZ3	1:B:1550:PRO:HG3	2.52	0.44
1:B:1807:LEU:HD23	1:B:1848:LEU:HD21	2.00	0.44
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.18	0.44
1:B:2770:LYS:HB3	1:B:2786:LYS:HZ2	1.83	0.44
1:B:2902:HIS:HB3	1:B:2905:LEU:HB2	1.99	0.44
1:B:3068:LEU:HD13	1:B:3139:VAL:HG11	2.00	0.44
1:B:3253:ILE:HG22	1:B:3318:ASN:HB3	1.99	0.44
1:B:3445:TRP:HA	1:B:3451:PHE:CD2	2.53	0.44
1:B:3666:ASP:OD2	1:B:3667:HIS:N	2.50	0.44
1:D:23:GLN:HB3	1:D:34:LYS:HZ3	1.82	0.44
1:D:411:TYR:HE1	1:D:441:VAL:HG23	1.83	0.44
1:D:471:LEU:HA	1:D:474:ARG:NH1	2.33	0.44
1:D:489:ASN:HB3	1:D:493:ARG:HH21	1.82	0.44
1:D:1230:MET:HG3	1:D:1234:VAL:HG23	1.99	0.44
1:D:1691:GLN:O	1:D:1695:LEU:HG	2.17	0.44
1:D:1748:PHE:CE1	1:D:1760:HIS:HA	2.53	0.44
1:D:2336:ARG:HG3	1:D:2431:ASP:OD2	2.17	0.44
1:D:2798:SER:HB2	1:D:2800:LYS:NZ	2.33	0.44
1:D:3051:ARG:O	1:D:3053:ARG:NH2	2.45	0.44
1:D:3368:ARG:HA	1:D:3371:LYS:HE2	1.99	0.44
1:D:3369:ALA:O	1:D:3373:VAL:HG13	2.17	0.44
1:D:3525:CYS:SG	1:D:3599:VAL:HG11	2.58	0.44
1:D:3629:ARG:O	1:D:3633:VAL:HG23	2.18	0.44
1:D:4124:ASN:ND2	1:D:4126:GLU:OE2	2.51	0.44
1:D:4645:CYS:O	1:D:4649:LEU:HG	2.17	0.44
1:D:4843:LEU:HD22	1:C:4823:LEU:HD22	1.98	0.44
1:C:38:ALA:HB2	1:C:65:CYS:SG	2.58	0.44
1:C:283:ARG:HH11	1:C:288:GLY:HA2	1.83	0.44
1:C:414:PHE:CZ	1:C:418:LEU:HD11	2.53	0.44
1:C:1242:LEU:HD21	1:C:1458:HIS:CD2	2.53	0.44
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.18	0.44
1:C:2122:SER:HA	1:C:3721:LEU:HD11	1.99	0.44
1:C:2293:GLN:O	1:C:2296:GLU:HB2	2.18	0.44
1:C:3051:ARG:HA	1:C:3131:TYR:OH	2.17	0.44
1:C:3132:THR:HG23	1:C:3136:LEU:HB2	2.00	0.44
1:C:4584:ASP:OD1	1:C:4584:ASP:N	2.50	0.44
1:C:4995:LEU:HD22	1:C:5003:HIS:CE1	2.52	0.44
1:A:411:TYR:HE1	1:A:441:VAL:HG23	1.83	0.44
1:A:575:LEU:HD11	1:A:606:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:738:LEU:HD12	1:A:738:LEU:H	1.83	0.44
1:A:892:THR:O	1:A:904:HIS:N	2.50	0.44
1:A:2023:LEU:HD22	1:A:2027:ILE:HD13	2.00	0.44
1:A:2231:SER:HB3	1:A:2234:ARG:HH21	1.81	0.44
1:A:2288:LEU:HB3	1:A:3849:ARG:HG3	1.99	0.44
1:A:2770:LYS:HA	1:A:2786:LYS:HZ3	1.83	0.44
1:A:2798:SER:HB2	1:A:2800:LYS:NZ	2.33	0.44
1:A:3173:TYR:CG	1:A:3243:ILE:HG13	2.53	0.44
2:H:53:GLN:NE2	2:H:57:ARG:HB2	2.31	0.44
2:G:17:LYS:O	2:G:17:LYS:HD3	2.18	0.44
1:B:54:ASN:HB3	1:B:57:ASN:HB2	1.99	0.44
1:B:554:LEU:HD11	1:B:1593:PRO:HD3	1.99	0.44
1:B:582:HIS:O	1:B:585:SER:OG	2.28	0.44
1:B:2122:SER:HA	1:B:3721:LEU:HD11	1.99	0.44
1:B:2293:GLN:O	1:B:2296:GLU:HB2	2.17	0.44
1:B:2381:GLU:HB2	1:B:2385:ARG:HH21	1.83	0.44
1:B:3219:TYR:OH	1:B:3235:SER:N	2.51	0.44
1:B:3478:MET:O	1:C:1141:ARG:HB2	2.18	0.44
1:B:3621:HIS:CE1	1:B:3623:LEU:HD23	2.52	0.44
1:B:3829:PHE:CE2	1:B:3906:GLN:HG2	2.53	0.44
1:B:3893:GLU:HA	1:B:3967:GLU:OE1	2.17	0.44
1:B:4067:LYS:HB2	1:B:4067:LYS:HE3	1.75	0.44
1:B:4085:ARG:HB2	1:B:4087:LEU:HD23	1.99	0.44
1:B:4124:ASN:ND2	1:B:4126:GLU:OE2	2.51	0.44
1:B:4232:GLU:HB2	1:B:5019:TRP:HE1	1.83	0.44
1:D:469:ARG:NH2	1:D:3710:LEU:O	2.48	0.44
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.52	0.44
1:D:647:ASN:C	1:D:648:ILE:HD12	2.43	0.44
1:D:1093:GLU:N	1:D:1201:HIS:O	2.35	0.44
1:D:1242:LEU:HD21	1:D:1458:HIS:CD2	2.53	0.44
1:D:1286:MET:HG3	1:D:1288:PHE:CZ	2.52	0.44
1:D:2170:MET:SD	1:D:2171:GLY:N	2.90	0.44
1:D:2481:LYS:O	1:D:2482:ASP:CG	2.61	0.44
1:D:3046:LEU:O	1:D:3050:VAL:HG12	2.17	0.44
1:D:3172:ILE:HD13	1:D:3194:LEU:CD2	2.47	0.44
1:D:3219:TYR:OH	1:D:3235:SER:N	2.51	0.44
1:D:3442:PHE:CZ	1:D:3605:HIS:HB3	2.52	0.44
1:D:3750:GLU:CD	1:D:3750:GLU:H	2.25	0.44
1:D:3889:GLN:NE2	1:D:3967:GLU:HB2	2.32	0.44
1:D:4578:LEU:HD12	1:D:4579:PHE:H	1.82	0.44
1:D:4584:ASP:OD1	1:D:4584:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4877:ASP:HA	1:C:4582:VAL:HG22	2.00	0.44
1:C:332:GLU:CD	1:C:332:GLU:H	2.24	0.44
1:C:441:VAL:O	1:C:445:LEU:HG	2.17	0.44
1:C:663:TYR:CD2	1:C:804:PRO:HB3	2.53	0.44
1:C:860:GLN:O	1:C:930:LYS:HD3	2.17	0.44
1:C:875:ALA:C	1:C:879:HIS:HD1	2.16	0.44
1:C:1496:TRP:CE2	1:C:1498:GLY:HA3	2.52	0.44
1:C:1612:PHE:O	1:C:1614:GLN:NE2	2.44	0.44
1:C:2902:HIS:HB3	1:C:2905:LEU:HB2	1.99	0.44
1:C:2960:LEU:HD12	1:C:3035:GLU:HG2	1.99	0.44
1:C:3196:ARG:NH1	1:C:3196:ARG:HA	2.33	0.44
1:C:3219:TYR:OH	1:C:3235:SER:N	2.51	0.44
1:C:3540:TYR:CZ	1:C:3549:VAL:HG21	2.53	0.44
1:C:3563:VAL:HG23	1:C:3569:LEU:HB3	1.98	0.44
1:C:4060:LYS:HA	1:C:4063:ASP:OD2	2.17	0.44
1:C:5017:ARG:HG3	1:C:5017:ARG:HH11	1.83	0.44
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.52	0.44
1:A:734:GLY:O	1:A:736:HIS:ND1	2.50	0.44
1:A:884:LEU:HA	1:A:887:ILE:HG22	2.00	0.44
1:A:1261:ASP:OD2	1:A:1262:GLY:N	2.51	0.44
1:A:2313:LEU:HD12	1:A:2316:LYS:HE2	2.00	0.44
1:A:2579:VAL:HA	1:A:2582:MET:SD	2.58	0.44
1:A:2600:ARG:HA	1:A:2603:ILE:HD12	2.00	0.44
1:A:2757:LYS:HD3	1:A:2761:TYR:CD2	2.53	0.44
1:A:3525:CYS:SG	1:A:3599:VAL:HG11	2.58	0.44
1:A:3540:TYR:CZ	1:A:3549:VAL:HG21	2.53	0.44
1:A:3893:GLU:HA	1:A:3967:GLU:OE1	2.17	0.44
1:A:4243:PHE:O	1:A:4247:ILE:HG12	2.18	0.44
2:E:87:HIS:HB3	2:E:91:ILE:H	1.83	0.44
1:B:38:ALA:HB2	1:B:65:CYS:SG	2.58	0.44
1:B:469:ARG:NH2	1:B:3710:LEU:O	2.48	0.44
1:B:471:LEU:HA	1:B:474:ARG:NH1	2.33	0.44
1:B:892:THR:OG1	1:B:902:ARG:O	2.21	0.44
1:B:1290:ARG:HB3	1:B:1598:GLN:HB2	2.00	0.44
1:B:1640:HIS:HD1	1:B:1646:ARG:C	2.26	0.44
1:B:1932:PRO:O	1:B:1936:LYS:HG3	2.18	0.44
1:B:3172:ILE:HD12	1:B:3173:TYR:N	2.32	0.44
1:B:3243:ILE:HD12	1:B:3243:ILE:H	1.82	0.44
1:B:3384:LYS:HG3	1:B:3386:GLU:H	1.82	0.44
1:B:3451:PHE:HA	1:B:3454:GLU:OE2	2.18	0.44
1:B:3563:VAL:HG23	1:B:3569:LEU:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4185:GLY:HA3	1:B:4189:ARG:O	2.18	0.44
1:D:316:PHE:HB3	1:D:346:CYS:SG	2.58	0.44
1:D:421:PHE:HE2	1:D:436:LEU:HD21	1.82	0.44
1:D:575:LEU:HD11	1:D:606:LEU:HD12	2.00	0.44
1:D:589:LEU:HA	1:D:592:LYS:HD3	2.00	0.44
1:D:931:THR:HG21	1:D:991:ASN:HD22	1.81	0.44
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.18	0.44
1:D:2643:LEU:HA	1:D:2646:ASN:ND2	2.33	0.44
1:D:2770:LYS:HA	1:D:2786:LYS:HZ3	1.83	0.44
1:D:3035:GLU:O	1:D:3038:MET:HG3	2.17	0.44
1:D:3068:LEU:HD13	1:D:3139:VAL:HG11	2.00	0.44
1:D:3527:PRO:HA	1:D:3530:GLN:CG	2.48	0.44
1:D:3768:SER:HA	1:D:3771:HIS:CD2	2.52	0.44
1:D:3825:GLU:OE2	1:D:3827:GLY:N	2.48	0.44
1:C:54:ASN:HB3	1:C:57:ASN:HB2	2.00	0.44
1:C:403:MET:HE3	1:C:403:MET:HB3	1.80	0.44
1:C:471:LEU:HA	1:C:474:ARG:NH1	2.33	0.44
1:C:613:ALA:H	1:C:1676:LEU:HD13	1.83	0.44
1:C:772:ASN:HB2	1:C:1470:ARG:HH11	1.83	0.44
1:C:960:MET:HE3	1:C:960:MET:N	2.31	0.44
1:C:983:THR:O	1:C:987:ARG:HG3	2.18	0.44
1:C:1261:ASP:OD2	1:C:1262:GLY:N	2.51	0.44
1:C:1601:MET:HE3	1:C:1604:SER:HB3	1.99	0.44
1:C:1748:PHE:CE1	1:C:1760:HIS:HA	2.53	0.44
1:C:1980:LEU:HD13	1:C:1994:ARG:HD3	2.00	0.44
1:C:2368:LEU:N	1:C:2374:SER:O	2.34	0.44
1:C:2798:SER:HB2	1:C:2800:LYS:NZ	2.33	0.44
1:C:3397:GLU:O	1:C:3400:VAL:HG22	2.18	0.44
1:C:3451:PHE:HA	1:C:3454:GLU:OE2	2.18	0.44
1:A:37:LEU:HD12	1:A:37:LEU:HA	1.80	0.44
1:A:159:GLU:OE2	1:A:160:GLY:N	2.48	0.44
1:A:261:ARG:HB3	1:A:283:ARG:O	2.17	0.44
1:A:426:ARG:HG3	1:A:431:PRO:HA	2.00	0.44
1:A:860:GLN:O	1:A:930:LYS:HD3	2.17	0.44
1:A:1220:GLN:HA	1:D:3522:LEU:HD22	1.99	0.44
1:A:1263:THR:N	1:A:1266:THR:O	2.33	0.44
1:A:1731:LEU:HA	1:A:1772:ARG:NH1	2.33	0.44
1:A:2481:LYS:O	1:A:2482:ASP:CG	2.61	0.44
1:A:2503:VAL:HG11	1:A:2557:ALA:HB1	2.00	0.44
1:A:2522:LEU:HB3	1:A:2527:LEU:HG	2.00	0.44
1:A:3046:LEU:O	1:A:3050:VAL:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3105:LYS:HB2	1:A:3105:LYS:HE2	1.80	0.44
1:A:3132:THR:HG23	1:A:3136:LEU:HB2	2.00	0.44
1:A:3316:LEU:HD22	1:A:3346:VAL:HA	1.99	0.44
1:A:3829:PHE:CE2	1:A:3906:GLN:HG2	2.53	0.44
1:A:3892:CYS:SG	1:A:3967:GLU:HG3	2.58	0.44
1:A:4160:LEU:HD12	1:A:4160:LEU:HA	1.89	0.44
2:G:42:ARG:HB3	2:G:44:LYS:NZ	2.33	0.44
1:B:316:PHE:HB3	1:B:346:CYS:SG	2.58	0.44
1:B:681:HIS:O	1:B:784:SER:N	2.42	0.44
1:B:710:ASP:C	1:B:724:GLY:HA2	2.43	0.44
1:B:978:THR:O	1:B:982:THR:HG23	2.18	0.44
1:B:1101:ARG:HB3	1:B:1123:VAL:HB	2.00	0.44
1:B:1131:ARG:C	1:B:1132:TRP:HD1	2.25	0.44
1:B:1980:LEU:HD13	1:B:1994:ARG:HD3	2.00	0.44
1:B:1987:SER:O	1:B:1991:THR:OG1	2.20	0.44
1:B:2023:LEU:HD22	1:B:2027:ILE:HD13	2.00	0.44
1:B:2675:THR:HG22	1:B:2710:LEU:HD21	2.00	0.44
1:B:3628:ARG:HD3	1:B:3632:VAL:HG13	2.00	0.44
1:B:4995:LEU:HD22	1:B:5003:HIS:CE1	2.52	0.44
1:D:664:PHE:CE2	1:D:779:PRO:HB3	2.53	0.44
1:D:738:LEU:HD12	1:D:738:LEU:H	1.83	0.44
1:D:860:GLN:O	1:D:930:LYS:HD3	2.17	0.44
1:D:1516:ILE:HA	1:D:1531:ALA:HA	2.00	0.44
1:D:2237:CYS:HA	1:D:2240:CYS:SG	2.57	0.44
1:D:3134:VAL:O	1:D:3138:PRO:HG2	2.18	0.44
1:D:3540:TYR:CZ	1:D:3549:VAL:HG21	2.53	0.44
1:D:4864:ASN:O	1:D:4865:LYS:HD3	2.18	0.44
1:D:4961:CYS:SG	1:D:4983:HIS:CE1	3.11	0.44
1:C:426:ARG:HG3	1:C:431:PRO:HA	2.00	0.44
1:C:710:ASP:C	1:C:724:GLY:HA2	2.43	0.44
1:C:1263:THR:N	1:C:1266:THR:O	2.33	0.44
1:C:1716:ILE:HG23	1:C:1847:THR:HG21	1.98	0.44
1:C:2170:MET:SD	1:C:2171:GLY:N	2.90	0.44
1:C:2579:VAL:HA	1:C:2582:MET:SD	2.58	0.44
1:C:2600:ARG:HA	1:C:2603:ILE:HD12	2.00	0.44
1:C:2757:LYS:HD3	1:C:2761:TYR:CD2	2.53	0.44
1:C:3015:LEU:HB3	1:C:3026:GLY:HA2	1.99	0.44
1:C:3051:ARG:O	1:C:3053:ARG:NH2	2.45	0.44
1:C:3172:ILE:HD13	1:C:3194:LEU:CD2	2.47	0.44
1:C:3885:PHE:CE1	1:C:3919:THR:HG23	2.53	0.44
1:C:4563:ARG:HA	1:C:4563:ARG:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4627:MET:H	1:C:4627:MET:CE	2.26	0.44
1:C:4837:LEU:HG	1:C:4935:LEU:HD22	1.99	0.44
1:A:229:GLU:CD	1:A:247:TYR:HB3	2.42	0.43
1:A:471:LEU:HA	1:A:474:ARG:NH1	2.33	0.43
1:A:978:THR:O	1:A:982:THR:HG23	2.18	0.43
1:A:1280:GLN:OE1	1:A:1281:ASN:N	2.38	0.43
1:A:1577:ALA:HB1	1:A:1584:ARG:HA	2.00	0.43
1:A:1640:HIS:HD1	1:A:1646:ARG:C	2.26	0.43
1:A:1748:PHE:HE1	1:A:1760:HIS:HA	1.83	0.43
1:A:3825:GLU:OE2	1:A:3827:GLY:N	2.48	0.43
1:A:3844:LEU:HD23	1:A:3844:LEU:HA	1.84	0.43
1:A:4664:LEU:HD23	1:A:4665:LYS:HZ1	1.83	0.43
1:A:4732:PHE:CE1	1:A:4736:ARG:HD2	2.53	0.43
1:A:4960:ILE:HG21	1:A:4988:TYR:HE2	1.83	0.43
1:B:375:LYS:HD2	1:B:376:ALA:H	1.82	0.43
1:B:467:LYS:NZ	1:B:467:LYS:O	2.44	0.43
1:B:884:LEU:HA	1:B:887:ILE:HG22	2.00	0.43
1:B:1242:LEU:HD21	1:B:1458:HIS:CD2	2.53	0.43
1:B:1671:ARG:O	1:B:1671:ARG:NE	2.51	0.43
1:B:2313:LEU:HD12	1:B:2316:LYS:HE2	2.00	0.43
1:B:2534:ALA:HB2	1:B:2585:THR:HG23	2.00	0.43
1:B:2574:HIS:H	1:B:2574:HIS:CD2	2.35	0.43
1:B:3051:ARG:HA	1:B:3131:TYR:OH	2.17	0.43
1:B:3892:CYS:SG	1:B:3967:GLU:HG3	2.58	0.43
1:B:4578:LEU:HD12	1:B:4579:PHE:H	1.82	0.43
1:B:4651:THR:HG1	1:B:4803:HIS:CD2	2.36	0.43
1:B:4723:LYS:HE2	1:B:4723:LYS:HB2	1.79	0.43
1:B:4732:PHE:CE1	1:B:4736:ARG:HD2	2.53	0.43
1:D:229:GLU:CD	1:D:247:TYR:HB3	2.42	0.43
1:D:267:ILE:O	1:D:270:SER:OG	2.24	0.43
1:D:753:PRO:HB2	1:D:771:PHE:CZ	2.53	0.43
1:D:1106:ARG:CZ	1:D:1109:LEU:HA	2.48	0.43
1:D:1213:PHE:HD1	1:D:1216:ILE:HD12	1.82	0.43
1:D:1496:TRP:CE2	1:D:1498:GLY:HA3	2.52	0.43
1:D:2287:ALA:O	1:D:2290:LEU:HB2	2.17	0.43
1:D:2360:LYS:O	1:D:2363:CYS:HB2	2.18	0.43
1:D:2675:THR:HG22	1:D:2710:LEU:HD21	2.00	0.43
1:D:3397:GLU:O	1:D:3400:VAL:HG22	2.18	0.43
1:D:3666:ASP:OD2	1:D:3667:HIS:N	2.51	0.43
1:D:4069:LYS:HD2	1:D:4069:LYS:HA	1.78	0.43
1:D:4229:GLU:H	1:D:4229:GLU:CD	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4239:GLU:O	1:D:4240:ASP:C	2.61	0.43
1:C:111:HIS:HD2	1:C:114:SER:HB3	1.83	0.43
1:C:421:PHE:HE2	1:C:436:LEU:HD21	1.82	0.43
1:C:551:LEU:HB3	1:C:589:LEU:HD11	2.00	0.43
1:C:1447:CYS:HB3	1:C:1555:LEU:HB3	1.99	0.43
1:C:1807:LEU:HD23	1:C:1848:LEU:HD21	2.00	0.43
1:C:2503:VAL:HG11	1:C:2557:ALA:HB1	2.00	0.43
1:C:2751:LEU:O	1:C:2755:ILE:HG13	2.17	0.43
1:C:3105:LYS:HB2	1:C:3105:LYS:HE2	1.80	0.43
1:C:3270:ILE:O	1:C:3275:PRO:HD3	2.18	0.43
1:C:3562:LYS:HD3	1:C:3562:LYS:HA	1.60	0.43
1:C:3621:HIS:CE1	1:C:3623:LEU:HD23	2.52	0.43
1:C:4160:LEU:HD12	1:C:4160:LEU:HA	1.89	0.43
1:C:4732:PHE:CE1	1:C:4736:ARG:HD2	2.53	0.43
1:A:179:TYR:HB3	1:A:197:GLN:HA	2.00	0.43
1:A:183:SER:OG	1:A:186:SER:OG	2.32	0.43
1:A:259:LEU:HD21	1:A:393:CYS:SG	2.58	0.43
1:A:392:ARG:HD2	1:A:393:CYS:N	2.33	0.43
1:A:459:LEU:HB2	1:A:464:LYS:HG3	1.99	0.43
1:A:551:LEU:HB3	1:A:589:LEU:HD11	1.99	0.43
1:A:925:SER:O	1:A:928:THR:OG1	2.30	0.43
1:A:1590:GLN:OE1	1:A:1590:GLN:N	2.51	0.43
1:A:2005:GLN:O	1:A:2009:LEU:HG	2.17	0.43
1:A:2381:GLU:HB2	1:A:2385:ARG:HH21	1.83	0.43
1:A:2643:LEU:HA	1:A:2646:ASN:ND2	2.33	0.43
1:A:3398:PHE:HD1	1:A:3401:LEU:HD11	1.84	0.43
1:A:3451:PHE:HA	1:A:3454:GLU:OE2	2.18	0.43
1:A:3522:LEU:HB3	1:B:1220:GLN:CG	2.48	0.43
1:A:3750:GLU:CD	1:A:3750:GLU:H	2.25	0.43
1:A:4067:LYS:HB2	1:A:4067:LYS:HE3	1.75	0.43
2:E:22:CYS:HB2	2:E:48:PHE:CZ	2.53	0.43
2:H:63:VAL:O	2:H:66:MET:HB3	2.18	0.43
2:G:93:PRO:O	2:G:94:HIS:ND1	2.51	0.43
2:F:22:CYS:HB2	2:F:48:PHE:CE1	2.54	0.43
2:F:25:HIS:HB2	2:F:104:LEU:HD21	2.00	0.43
1:B:647:ASN:C	1:B:648:ILE:HD12	2.43	0.43
1:B:663:TYR:CE1	1:B:745:SER:HB2	2.44	0.43
1:B:664:PHE:CE2	1:B:779:PRO:HB3	2.53	0.43
1:B:1106:ARG:HH21	1:B:1120:LEU:HD13	1.83	0.43
1:B:1590:GLN:OE1	1:B:1590:GLN:N	2.51	0.43
1:B:1731:LEU:HA	1:B:1772:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2751:LEU:O	1:B:2755:ILE:HG13	2.17	0.43
1:B:3033:ASN:O	1:B:3037:GLU:HG2	2.18	0.43
1:B:3160:ASP:HA	1:B:3163:VAL:HG12	2.00	0.43
1:B:3196:ARG:NH1	1:B:3196:ARG:HA	2.33	0.43
1:B:3368:ARG:O	1:B:3372:VAL:HG22	2.18	0.43
1:B:3527:PRO:HA	1:B:3530:GLN:CG	2.48	0.43
1:B:3812:VAL:HG13	1:B:3816:MET:HE3	2.01	0.43
1:B:4069:LYS:HD2	1:B:4069:LYS:HA	1.78	0.43
1:B:4159:ARG:HA	1:B:4162:ASN:ND2	2.32	0.43
1:B:4664:LEU:HD23	1:B:4665:LYS:HZ1	1.82	0.43
1:D:157:ARG:HA	1:D:157:ARG:HD3	1.67	0.43
1:D:230:CYS:SG	1:D:258:SER:HB2	2.57	0.43
1:D:247:TYR:O	1:D:373:LYS:HA	2.18	0.43
1:D:663:TYR:CD2	1:D:804:PRO:HB3	2.53	0.43
1:D:663:TYR:CE1	1:D:745:SER:HB2	2.44	0.43
1:D:1074:ILE:HG12	1:D:1605:TRP:HH2	1.83	0.43
1:D:1274:HIS:CD2	1:D:1277:TRP:HB2	2.54	0.43
1:D:1640:HIS:HD1	1:D:1646:ARG:C	2.26	0.43
1:D:1731:LEU:HA	1:D:1772:ARG:NH1	2.33	0.43
1:D:1827:ARG:O	1:D:1829:PRO:HD3	2.18	0.43
1:D:2902:HIS:HB3	1:D:2905:LEU:HB2	1.99	0.43
1:D:2980:VAL:HG11	1:D:2986:VAL:HG12	1.99	0.43
1:D:3053:ARG:HD3	1:D:3056:LEU:HD13	1.99	0.43
1:D:3080:VAL:O	1:D:3089:LYS:NZ	2.51	0.43
1:D:3398:PHE:HD1	1:D:3401:LEU:HD11	1.84	0.43
1:D:3445:TRP:HA	1:D:3451:PHE:CD2	2.53	0.43
1:D:3589:PRO:O	1:D:3592:ILE:HG22	2.19	0.43
1:D:3892:CYS:SG	1:D:3967:GLU:HG3	2.58	0.43
1:D:4561:THR:O	1:D:4565:LEU:HG	2.18	0.43
1:C:157:ARG:HD3	1:C:157:ARG:HA	1.67	0.43
1:C:1180:ARG:HB3	1:C:1181:GLU:CD	2.43	0.43
1:C:1206:GLN:HA	1:C:1227:ALA:O	2.18	0.43
1:C:1671:ARG:NE	1:C:1671:ARG:O	2.51	0.43
1:C:1748:PHE:HE1	1:C:1760:HIS:HA	1.83	0.43
1:C:2023:LEU:HD22	1:C:2027:ILE:HD13	2.00	0.43
1:C:2381:GLU:HB2	1:C:2385:ARG:HH21	1.83	0.43
1:C:3812:VAL:HG13	1:C:3816:MET:HE3	2.00	0.43
1:C:4124:ASN:ND2	1:C:4126:GLU:OE2	2.51	0.43
1:C:4572:ALA:O	1:C:4576:ILE:HG13	2.19	0.43
1:C:4651:THR:HG1	1:C:4803:HIS:CD2	2.36	0.43
1:C:4961:CYS:SG	1:C:4983:HIS:CE1	3.11	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:TYR:O	1:A:373:LYS:HA	2.18	0.43
1:A:545:ASP:OD1	1:A:545:ASP:N	2.50	0.43
1:A:818:ARG:NE	1:A:1029:GLU:OE1	2.51	0.43
1:A:1141:ARG:NH1	1:D:3478:MET:HE3	2.19	0.43
1:A:1220:GLN:OE1	1:D:3522:LEU:CD2	2.66	0.43
1:A:1242:LEU:HD21	1:A:1458:HIS:CD2	2.53	0.43
1:A:1601:MET:HE3	1:A:1604:SER:HB3	1.99	0.43
1:A:1710:GLY:O	1:A:1714:LEU:HG	2.18	0.43
1:A:1748:PHE:CE1	1:A:1760:HIS:HA	2.53	0.43
1:A:2538:THR:O	1:A:2542:SER:N	2.40	0.43
1:A:3048:ALA:O	1:A:3051:ARG:HB3	2.18	0.43
1:A:3053:ARG:HD3	1:A:3056:LEU:HD13	1.99	0.43
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.17	0.43
1:A:3068:LEU:HD13	1:A:3139:VAL:HG11	2.00	0.43
1:A:3281:LEU:HB3	1:A:3282:PRO:HD3	2.00	0.43
1:A:3655:GLU:O	1:A:3658:LYS:HG2	2.17	0.43
1:A:4159:ARG:HA	1:A:4162:ASN:ND2	2.32	0.43
1:A:4864:ASN:O	1:A:4865:LYS:HD3	2.18	0.43
2:G:40:ARG:HD3	1:C:674:PHE:CE2	2.52	0.43
1:B:394:GLN:NE2	1:B:396:GLU:HG3	2.34	0.43
1:B:589:LEU:HA	1:B:592:LYS:HD3	2.00	0.43
1:B:1261:ASP:OD2	1:B:1262:GLY:N	2.51	0.43
1:B:2288:LEU:HB3	1:B:3849:ARG:HG3	1.99	0.43
1:B:2757:LYS:HD3	1:B:2761:TYR:CD2	2.53	0.43
1:B:3015:LEU:HB3	1:B:3026:GLY:HA2	1.99	0.43
1:B:3173:TYR:CG	1:B:3243:ILE:HG13	2.53	0.43
1:B:3352:GLU:OE2	1:B:3352:GLU:N	2.34	0.43
1:B:3522:LEU:HA	1:B:3525:CYS:SG	2.58	0.43
1:B:3885:PHE:CE1	1:B:3919:THR:HG23	2.53	0.43
1:B:3999:MET:N	1:B:3999:MET:SD	2.90	0.43
1:B:4546:VAL:HA	1:B:4549:VAL:HG22	2.01	0.43
1:B:4960:ILE:HG21	1:B:4988:TYR:HE2	1.83	0.43
1:D:261:ARG:HB3	1:D:283:ARG:O	2.17	0.43
1:D:283:ARG:HH11	1:D:288:GLY:HA2	1.83	0.43
1:D:342:GLY:HA2	1:D:390:LEU:O	2.17	0.43
1:D:375:LYS:HD2	1:D:376:ALA:H	1.82	0.43
1:D:484:LEU:HD23	1:D:539:LEU:HD12	1.99	0.43
1:D:580:GLU:OE1	1:D:624:ASN:ND2	2.52	0.43
1:D:772:ASN:HB2	1:D:1470:ARG:HH11	1.83	0.43
1:D:1206:GLN:HA	1:D:1227:ALA:O	2.18	0.43
1:D:1726:SER:O	1:D:1730:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3185:LYS:HE3	1:D:3185:LYS:HB3	1.85	0.43
1:D:3923:LEU:O	1:D:3927:GLN:HG3	2.17	0.43
1:D:4664:LEU:HD23	1:D:4665:LYS:HZ1	1.83	0.43
1:D:4677:LEU:HA	1:D:4680:LYS:HE2	2.00	0.43
1:C:392:ARG:HD2	1:C:393:CYS:N	2.33	0.43
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.52	0.43
1:C:667:MET:HE1	1:C:741:GLU:HA	2.01	0.43
1:C:1213:PHE:HD1	1:C:1216:ILE:HD12	1.82	0.43
1:C:1230:MET:HG3	1:C:1234:VAL:HG23	1.99	0.43
1:C:1237:TRP:CE2	1:C:1607:ARG:HB2	2.52	0.43
1:C:1640:HIS:HD1	1:C:1646:ARG:C	2.26	0.43
1:C:2481:LYS:O	1:C:2482:ASP:CG	2.61	0.43
1:C:2643:LEU:HA	1:C:2646:ASN:ND2	2.33	0.43
1:C:2766:TRP:O	1:C:2770:LYS:HG3	2.19	0.43
1:C:3281:LEU:HB3	1:C:3282:PRO:HD3	2.00	0.43
1:C:4085:ARG:HB2	1:C:4087:LEU:HD23	1.99	0.43
1:C:4677:LEU:HA	1:C:4680:LYS:HE2	2.00	0.43
1:A:365:LYS:NZ	1:A:365:LYS:O	2.32	0.43
1:A:580:GLU:OE1	1:A:624:ASN:ND2	2.52	0.43
1:A:652:ARG:HB2	1:A:750:LEU:HD13	2.00	0.43
1:A:829:TYR:O	1:A:840:VAL:N	2.45	0.43
1:A:1180:ARG:HB3	1:A:1181:GLU:CD	2.43	0.43
1:A:1807:LEU:HD23	1:A:1848:LEU:HD21	2.00	0.43
1:A:2176:ASN:O	1:A:2180:GLN:HG3	2.19	0.43
1:A:2927:LEU:HA	1:A:2927:LEU:HD13	1.72	0.43
1:A:3192:GLU:O	1:A:3196:ARG:HG2	2.19	0.43
1:A:3270:ILE:O	1:A:3275:PRO:HD3	2.18	0.43
1:A:3522:LEU:HA	1:A:3525:CYS:SG	2.58	0.43
1:A:3589:PRO:O	1:A:3592:ILE:HG22	2.19	0.43
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.52	0.43
1:A:3885:PHE:CE1	1:A:3919:THR:HG23	2.53	0.43
1:A:4147:LEU:HA	1:A:4147:LEU:HD23	1.80	0.43
1:A:4185:GLY:HA3	1:A:4189:ARG:O	2.18	0.43
1:A:4546:VAL:HA	1:A:4549:VAL:HG22	2.01	0.43
1:A:5017:ARG:HH11	1:A:5017:ARG:HG3	1.83	0.43
2:H:5:GLU:HB3	2:H:73:LYS:HD2	2.00	0.43
2:F:79:ASP:OD1	2:F:79:ASP:C	2.61	0.43
2:F:84:ALA:O	2:F:93:PRO:HB3	2.19	0.43
1:B:259:LEU:HD21	1:B:393:CYS:SG	2.58	0.43
1:B:283:ARG:HH11	1:B:288:GLY:HA2	1.83	0.43
1:B:772:ASN:HB2	1:B:1470:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:860:GLN:O	1:B:930:LYS:HD3	2.17	0.43
1:B:1274:HIS:CD2	1:B:1277:TRP:HB2	2.54	0.43
1:B:1447:CYS:HB3	1:B:1555:LEU:HB3	1.99	0.43
1:B:1752:ARG:CZ	1:B:1752:ARG:H	2.32	0.43
1:B:1950:GLU:O	1:B:1954:ARG:HG3	2.18	0.43
1:B:2155:LEU:HD12	1:B:2155:LEU:HA	1.75	0.43
1:B:2237:CYS:HA	1:B:2240:CYS:SG	2.57	0.43
1:B:2447:LYS:NZ	1:B:2449:GLU:H	2.17	0.43
1:B:2579:VAL:HA	1:B:2582:MET:SD	2.58	0.43
1:B:3134:VAL:O	1:B:3138:PRO:HG2	2.18	0.43
1:B:3316:LEU:HD22	1:B:3346:VAL:HA	1.99	0.43
1:B:3336:LYS:O	1:B:3340:VAL:HG13	2.19	0.43
1:B:3398:PHE:HD1	1:B:3401:LEU:HD11	1.83	0.43
1:B:4561:THR:O	1:B:4565:LEU:HG	2.18	0.43
1:B:5017:ARG:HH11	1:B:5017:ARG:HG3	1.83	0.43
1:D:54:ASN:HB3	1:D:57:ASN:HB2	1.99	0.43
1:D:597:HIS:HD2	1:D:1665:HIS:CE1	2.37	0.43
1:D:710:ASP:C	1:D:724:GLY:HA2	2.43	0.43
1:D:818:ARG:NE	1:D:1029:GLU:OE1	2.51	0.43
1:D:1141:ARG:HB2	1:C:3478:MET:O	2.18	0.43
1:D:1229:ASN:H	1:D:1827:ARG:CZ	2.32	0.43
1:D:1613:LEU:HA	1:D:1613:LEU:HD23	1.81	0.43
1:D:2336:ARG:HG3	1:D:2435:ARG:HE	1.83	0.43
1:D:2902:HIS:CD2	1:D:2905:LEU:HG	2.52	0.43
1:D:2919:ASP:OD1	1:D:2922:LYS:NZ	2.50	0.43
1:D:3174:SER:O	1:D:3177:THR:OG1	2.24	0.43
1:D:3196:ARG:NH1	1:D:3196:ARG:HA	2.33	0.43
1:D:3446:SER:HA	1:D:3452:LYS:HD3	2.00	0.43
1:D:3453:ARG:O	1:D:3456:GLN:HG2	2.19	0.43
1:D:4680:LYS:O	1:D:4685:GLY:N	2.31	0.43
1:C:134:ASP:OD2	1:C:134:ASP:N	2.42	0.43
1:C:179:TYR:HB3	1:C:197:GLN:HA	2.00	0.43
1:C:278:GLN:HA	1:C:328:LYS:HZ3	1.83	0.43
1:C:575:LEU:HD11	1:C:606:LEU:HD12	1.99	0.43
1:C:719:LEU:HA	1:C:735:GLN:HE21	1.84	0.43
1:C:753:PRO:HB2	1:C:771:PHE:CZ	2.53	0.43
1:C:1105:ALA:O	1:C:1189:LEU:N	2.35	0.43
1:C:2447:LYS:NZ	1:C:2449:GLU:H	2.17	0.43
1:C:2779:GLU:OE1	1:C:2779:GLU:N	2.51	0.43
1:C:2997:PHE:O	1:C:3001:ILE:HB	2.17	0.43
1:C:3445:TRP:HA	1:C:3451:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3446:SER:HA	1:C:3452:LYS:HD3	2.00	0.43
1:C:3829:PHE:CE2	1:C:3906:GLN:HG2	2.53	0.43
1:C:4097:MET:HG2	1:C:4097:MET:H	1.63	0.43
1:C:4239:GLU:O	1:C:4240:ASP:C	2.61	0.43
1:A:49:LEU:HD23	1:A:49:LEU:HA	1.84	0.43
1:A:283:ARG:HH11	1:A:288:GLY:HA2	1.83	0.43
1:A:342:GLY:HA2	1:A:390:LEU:O	2.17	0.43
1:A:613:ALA:HB3	1:A:1676:LEU:HD13	2.00	0.43
1:A:647:ASN:C	1:A:648:ILE:HD12	2.43	0.43
1:A:753:PRO:HB2	1:A:771:PHE:CZ	2.53	0.43
1:A:983:THR:O	1:A:987:ARG:HG3	2.18	0.43
1:A:1827:ARG:O	1:A:1829:PRO:HD3	2.19	0.43
1:A:1950:GLU:O	1:A:1954:ARG:HG3	2.18	0.43
1:A:1984:PHE:HB2	1:A:1991:THR:HG21	2.01	0.43
1:A:2360:LYS:O	1:A:2363:CYS:HB2	2.18	0.43
1:A:2574:HIS:CD2	1:A:2574:HIS:H	2.35	0.43
1:A:4877:ASP:HA	1:D:4582:VAL:HG22	2.00	0.43
2:E:97:LEU:HG	2:E:99:PHE:CE1	2.53	0.43
2:G:54:GLU:O	1:C:1784:ALA:HA	2.19	0.43
1:B:486:LEU:HD12	1:B:487:VAL:N	2.34	0.43
1:B:875:ALA:C	1:B:879:HIS:HD1	2.17	0.43
1:B:917:GLU:HA	1:B:920:TYR:CE2	2.54	0.43
1:B:1116:GLY:HA3	1:B:1132:TRP:HB3	2.01	0.43
1:B:1491:ASN:OD1	1:B:1491:ASN:N	2.52	0.43
1:B:1810:LYS:HE3	1:B:1810:LYS:HB2	1.69	0.43
1:B:2642:LYS:O	1:B:2645:THR:OG1	2.30	0.43
1:B:2980:VAL:HG11	1:B:2986:VAL:HG12	1.99	0.43
1:B:3525:CYS:SG	1:B:3599:VAL:HG11	2.58	0.43
1:B:3768:SER:HA	1:B:3771:HIS:CE1	2.54	0.43
1:B:4837:LEU:HG	1:B:4935:LEU:HD22	1.99	0.43
1:D:49:LEU:HD23	1:D:49:LEU:HA	1.84	0.43
1:D:234:SER:HG	1:D:238:SER:HG	1.65	0.43
1:D:545:ASP:OD1	1:D:545:ASP:N	2.50	0.43
1:D:583:ILE:HG13	1:D:583:ILE:H	1.66	0.43
1:D:613:ALA:HB3	1:D:1676:LEU:HD13	2.00	0.43
1:D:1106:ARG:HH21	1:D:1120:LEU:HD13	1.83	0.43
1:D:1180:ARG:HB3	1:D:1181:GLU:CD	2.43	0.43
1:D:1274:HIS:HB3	1:D:1277:TRP:HB2	2.01	0.43
1:D:1491:ASN:OD1	1:D:1491:ASN:N	2.52	0.43
1:D:1965:TYR:O	1:D:1969:LEU:HG	2.19	0.43
1:D:2175:GLU:CB	1:D:2228:MET:HE1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2703:LEU:HA	1:D:2706:ILE:HG12	2.01	0.43
1:D:2757:LYS:HD3	1:D:2761:TYR:CD2	2.53	0.43
1:D:3173:TYR:CG	1:D:3243:ILE:HG13	2.53	0.43
1:D:3591:LYS:HD2	1:D:3591:LYS:C	2.44	0.43
1:C:375:LYS:HD2	1:C:376:ALA:H	1.82	0.43
1:C:818:ARG:NE	1:C:1029:GLU:OE1	2.51	0.43
1:C:1731:LEU:HA	1:C:1772:ARG:NH1	2.33	0.43
1:C:1827:ARG:O	1:C:1829:PRO:HD3	2.19	0.43
1:C:2028:ARG:HA	1:C:2031:LEU:HG	2.01	0.43
1:C:2703:LEU:HA	1:C:2706:ILE:HG12	2.01	0.43
1:C:2902:HIS:CD2	1:C:2905:LEU:HG	2.52	0.43
1:C:3336:LYS:O	1:C:3340:VAL:HG13	2.18	0.43
1:C:3368:ARG:O	1:C:3372:VAL:HG22	2.18	0.43
1:C:3525:CYS:SG	1:C:3599:VAL:HG11	2.58	0.43
1:C:3554:GLN:HA	1:C:3557:LEU:HG	2.00	0.43
1:C:3823:LYS:C	1:C:3824:LYS:HG2	2.44	0.43
1:C:3969:ILE:CD1	1:C:3977:GLN:HG2	2.49	0.43
1:C:4087:LEU:HB3	1:C:4122:MET:HB3	2.01	0.43
1:C:4185:GLY:HA3	1:C:4189:ARG:O	2.18	0.43
1:C:4232:GLU:HB2	1:C:5019:TRP:HE1	1.83	0.43
1:A:115:ARG:NE	1:A:399:GLN:HE21	2.17	0.43
1:A:308:HIS:CD2	1:A:310:LYS:HB3	2.54	0.43
1:A:486:LEU:HD12	1:A:487:VAL:N	2.34	0.43
1:A:663:TYR:CD2	1:A:804:PRO:HB3	2.53	0.43
1:A:1101:ARG:HB3	1:A:1123:VAL:HB	2.00	0.43
1:A:1290:ARG:HB3	1:A:1598:GLN:HB2	2.00	0.43
1:A:2199:ARG:HA	1:A:2204:HIS:CE1	2.54	0.43
1:A:2244:ARG:HG2	1:A:2248:ARG:HH12	1.84	0.43
1:A:3051:ARG:HA	1:A:3131:TYR:OH	2.17	0.43
1:A:3159:ASP:HA	1:A:3218:VAL:HG12	2.00	0.43
1:A:4006:ASP:OD2	1:A:4008:SER:OG	2.37	0.43
1:A:4214:LYS:HB3	1:A:4214:LYS:HE3	1.73	0.43
2:H:8:SER:O	2:H:70:GLN:HG3	2.19	0.43
2:G:46:PHE:CZ	2:G:48:PHE:HB3	2.54	0.43
2:G:48:PHE:CZ	2:G:63:VAL:HG11	2.50	0.43
2:G:59:TRP:CE3	1:C:1783:VAL:CG1	3.01	0.43
2:F:7:ILE:HG13	1:B:719:LEU:HD21	2.00	0.43
1:B:109:LEU:H	1:B:117:TYR:HE1	1.66	0.43
1:B:575:LEU:HD12	1:B:575:LEU:HA	1.76	0.43
1:B:1808:ARG:HG3	1:B:1854:PHE:CE1	2.54	0.43
1:B:2036:GLN:NE2	1:B:2045:GLN:OE1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2097:LEU:HD12	1:B:2098:VAL:N	2.34	0.43
1:B:2522:LEU:HB3	1:B:2527:LEU:HG	2.00	0.43
1:B:3529:ASP:O	1:B:3532:LEU:N	2.52	0.43
1:B:3591:LYS:HD2	1:B:3591:LYS:C	2.44	0.43
1:B:4243:PHE:O	1:B:4247:ILE:HG12	2.18	0.43
1:B:4677:LEU:HA	1:B:4680:LYS:HE2	2.01	0.43
1:D:134:ASP:OD2	1:D:134:ASP:N	2.42	0.43
1:D:202:MET:C	1:D:202:MET:HE3	2.44	0.43
1:D:290:TYR:O	1:D:302:VAL:N	2.32	0.43
1:D:553:ARG:HG2	1:D:555:GLU:OE1	2.19	0.43
1:D:667:MET:HE1	1:D:741:GLU:HA	2.01	0.43
1:D:983:THR:O	1:D:987:ARG:HG3	2.18	0.43
1:D:1748:PHE:HE1	1:D:1760:HIS:HA	1.83	0.43
1:D:1807:LEU:HD23	1:D:1848:LEU:HD21	2.00	0.43
1:D:2028:ARG:HA	1:D:2031:LEU:HG	2.01	0.43
1:D:2288:LEU:HB3	1:D:3849:ARG:HG3	1.99	0.43
1:D:3529:ASP:O	1:D:3532:LEU:N	2.52	0.43
1:D:3842:LEU:HB3	1:D:3933:PHE:CE1	2.54	0.43
1:D:4006:ASP:OD2	1:D:4008:SER:OG	2.37	0.43
1:D:4232:GLU:HB2	1:D:5019:TRP:HE1	1.83	0.43
1:C:109:LEU:H	1:C:117:TYR:HE1	1.66	0.43
1:C:394:GLN:NE2	1:C:396:GLU:HG3	2.34	0.43
1:C:664:PHE:CE2	1:C:779:PRO:HB3	2.53	0.43
1:C:1106:ARG:CZ	1:C:1109:LEU:HA	2.48	0.43
1:C:1265:ASP:OD2	1:C:1265:ASP:N	2.48	0.43
1:C:1516:ILE:HA	1:C:1531:ALA:HA	2.00	0.43
1:C:1581:LEU:HA	1:C:1584:ARG:HB2	2.00	0.43
1:C:1590:GLN:OE1	1:C:1590:GLN:N	2.51	0.43
1:C:2036:GLN:NE2	1:C:2045:GLN:OE1	2.50	0.43
1:C:2097:LEU:HD12	1:C:2098:VAL:N	2.34	0.43
1:C:2474:LEU:HD13	1:C:2496:PRO:HG3	2.00	0.43
1:C:3173:TYR:CG	1:C:3243:ILE:HG13	2.53	0.43
1:C:3192:GLU:O	1:C:3196:ARG:HG2	2.18	0.43
1:C:3527:PRO:HA	1:C:3530:GLN:CG	2.48	0.43
1:C:3768:SER:HA	1:C:3771:HIS:CE1	2.54	0.43
1:C:3782:MET:SD	1:C:3782:MET:C	3.02	0.43
1:C:4229:GLU:H	1:C:4229:GLU:CD	2.25	0.43
1:C:4561:THR:O	1:C:4565:LEU:HG	2.18	0.43
1:A:54:ASN:HB3	1:A:57:ASN:HB2	2.00	0.43
1:A:510:GLU:OE1	1:A:510:GLU:N	2.49	0.43
1:A:667:MET:HE1	1:A:741:GLU:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1229:ASN:H	1:A:1827:ARG:CZ	2.32	0.43
1:A:1274:HIS:HB3	1:A:1277:TRP:HB2	2.01	0.43
1:A:1752:ARG:H	1:A:1752:ARG:CZ	2.32	0.43
1:A:2336:ARG:HG3	1:A:2435:ARG:HE	1.83	0.43
1:A:2347:GLU:OE2	1:A:2347:GLU:N	2.32	0.43
1:A:3546:ASP:C	1:A:3550:ARG:HH21	2.27	0.43
1:A:3628:ARG:HD3	1:A:3632:VAL:HG13	2.00	0.43
1:A:3782:MET:C	1:A:3782:MET:SD	3.02	0.43
1:A:3906:GLN:NE2	1:A:3913:ILE:O	2.44	0.43
1:A:4843:LEU:HD22	1:D:4823:LEU:HD13	2.01	0.43
2:H:90:ILE:HG12	1:D:1687:SER:HB3	2.00	0.43
1:B:247:TYR:O	1:B:373:LYS:HA	2.18	0.43
1:B:375:LYS:HD2	1:B:376:ALA:N	2.34	0.43
1:B:667:MET:HE1	1:B:741:GLU:HA	2.01	0.43
1:B:675:LEU:HD22	1:B:786:GLY:HA3	2.01	0.43
1:B:753:PRO:HB2	1:B:771:PHE:CZ	2.53	0.43
1:B:1274:HIS:HB3	1:B:1277:TRP:HB2	2.01	0.43
1:B:1511:HIS:ND1	1:B:1511:HIS:N	2.65	0.43
1:B:1726:SER:O	1:B:1730:MET:HG2	2.19	0.43
1:B:2028:ARG:HA	1:B:2031:LEU:HG	2.01	0.43
1:B:2268[A]:GLN:H	1:B:2268[A]:GLN:HG3	1.51	0.43
1:B:2919:ASP:OD1	1:B:2922:LYS:NZ	2.50	0.43
1:B:3081:MET:HA	1:B:3089:LYS:NZ	2.34	0.43
1:B:3281:LEU:HB3	1:B:3282:PRO:HD3	2.00	0.43
1:B:3440:GLU:HA	1:B:3443:ILE:HD12	2.01	0.43
1:D:115:ARG:HE	1:D:399:GLN:HE21	1.66	0.43
1:D:214:VAL:HG23	1:D:274:LEU:HB2	2.00	0.43
1:D:486:LEU:HD12	1:D:487:VAL:N	2.34	0.43
1:D:875:ALA:C	1:D:879:HIS:HD1	2.16	0.43
1:D:886:ARG:HG3	1:D:891:TRP:HE3	1.83	0.43
1:D:1590:GLN:N	1:D:1590:GLN:OE1	2.51	0.43
1:D:1752:ARG:H	1:D:1752:ARG:CZ	2.32	0.43
1:D:1980:LEU:HD13	1:D:1994:ARG:HD3	2.00	0.43
1:D:2090:LYS:HZ2	1:D:2092:GLN:HG2	1.82	0.43
1:D:2600:ARG:HA	1:D:2603:ILE:HD12	2.00	0.43
1:D:3159:ASP:HA	1:D:3218:VAL:HG12	2.00	0.43
1:D:3160:ASP:HA	1:D:3163:VAL:HG12	2.00	0.43
1:D:3892:CYS:SG	1:D:3968:TYR:HA	2.59	0.43
1:D:4087:LEU:HB3	1:D:4122:MET:HB3	2.01	0.43
1:D:4627:MET:HE3	1:D:4627:MET:N	2.27	0.43
1:D:4856:PHE:CZ	1:C:4582:VAL:HG13	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5006:GLN:O	1:D:5010:VAL:HG23	2.19	0.43
1:D:5034:ASP:OD1	1:D:5034:ASP:N	2.52	0.43
1:C:214:VAL:HG23	1:C:274:LEU:HB2	2.00	0.43
1:C:308:HIS:CD2	1:C:310:LYS:HB3	2.54	0.43
1:C:647:ASN:C	1:C:648:ILE:HD12	2.43	0.43
1:C:917:GLU:HA	1:C:920:TYR:CE2	2.54	0.43
1:C:1074:ILE:HG12	1:C:1605:TRP:HH2	1.83	0.43
1:C:2288:LEU:HB3	1:C:3849:ARG:HG3	1.99	0.43
1:C:3033:ASN:O	1:C:3037:GLU:HG2	2.18	0.43
1:C:3080:VAL:O	1:C:3089:LYS:NZ	2.51	0.43
1:C:3368:ARG:HA	1:C:3371:LYS:HE2	1.99	0.43
1:C:3398:PHE:HD1	1:C:3401:LEU:HD11	1.83	0.43
1:C:3522:LEU:HA	1:C:3525:CYS:SG	2.58	0.43
1:C:4006:ASP:OD2	1:C:4008:SER:OG	2.37	0.43
1:C:4237:PHE:O	1:C:4241:THR:OG1	2.33	0.43
1:A:613:ALA:H	1:A:1676:LEU:HD13	1.83	0.43
1:A:719:LEU:HA	1:A:735:GLN:HE21	1.84	0.43
1:A:886:ARG:HG3	1:A:891:TRP:HE3	1.83	0.43
1:A:1726:SER:O	1:A:1730:MET:HG2	2.19	0.43
1:A:1773:PRO:HA	1:A:1774:PRO:HD3	1.93	0.43
1:A:2028:ARG:HA	1:A:2031:LEU:HG	2.01	0.43
1:A:2244:ARG:HE	1:A:2248:ARG:HH22	1.67	0.43
1:A:2265:LEU:HB2	1:A:2330:ARG:HD3	2.01	0.43
1:A:2703:LEU:HA	1:A:2706:ILE:HG12	2.01	0.43
1:A:3033:ASN:O	1:A:3037:GLU:HG2	2.18	0.43
1:A:3196:ARG:HA	1:A:3196:ARG:NH1	2.33	0.43
1:A:3635:CYS:HA	1:A:3638:MET:HB2	2.01	0.43
1:A:3892:CYS:SG	1:A:3968:TYR:HA	2.59	0.43
1:A:4561:THR:O	1:A:4565:LEU:HG	2.18	0.43
1:A:4578:LEU:HD12	1:A:4579:PHE:H	1.83	0.43
2:H:100:ASP:OD1	2:H:100:ASP:N	2.52	0.43
1:B:49:LEU:HD23	1:B:49:LEU:HA	1.84	0.43
1:B:392:ARG:HD2	1:B:393:CYS:N	2.33	0.43
1:B:758:ARG:NH1	1:B:761:GLY:H	2.08	0.43
1:B:1710:GLY:O	1:B:1714:LEU:HG	2.18	0.43
1:B:2643:LEU:HA	1:B:2646:ASN:ND2	2.33	0.43
1:B:3478:MET:N	1:B:3478:MET:SD	2.92	0.43
1:B:3782:MET:SD	1:B:3782:MET:C	3.02	0.43
1:D:111:HIS:HD2	1:D:114:SER:HB3	1.83	0.43
1:D:467:LYS:NZ	1:D:467:LYS:O	2.44	0.43
1:D:1091:GLU:HG2	1:D:1148:VAL:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1808:ARG:HG3	1:D:1854:PHE:CE1	2.54	0.43
1:D:1950:GLU:O	1:D:1954:ARG:HG3	2.18	0.43
1:D:2251:PHE:CD1	1:D:2286:LEU:HD13	2.54	0.43
1:D:2997:PHE:O	1:D:3001:ILE:HB	2.17	0.43
1:D:3546:ASP:C	1:D:3550:ARG:HH21	2.27	0.43
1:D:3944:GLU:CD	1:D:3946:GLN:H	2.22	0.43
1:C:589:LEU:HA	1:C:592:LYS:HD3	2.00	0.43
1:C:909:ASN:O	1:C:913:LEU:N	2.42	0.43
1:C:1116:GLY:HA3	1:C:1132:TRP:HB3	2.01	0.43
1:C:1552:VAL:HB	1:C:1564:PHE:HZ	1.84	0.43
1:C:1710:GLY:O	1:C:1714:LEU:HG	2.18	0.43
1:C:2244:ARG:HE	1:C:2248:ARG:HH22	1.67	0.43
1:C:2251:PHE:CD1	1:C:2286:LEU:HD13	2.54	0.43
1:C:2360:LYS:O	1:C:2363:CYS:HB2	2.18	0.43
1:C:2536:LEU:HD13	1:C:2547:ALA:HB1	2.01	0.43
1:C:2550:LEU:HA	1:C:2553:TYR:CE2	2.54	0.43
1:C:3359:ILE:HG23	1:C:3434:LEU:HD21	2.01	0.43
1:C:3371:LYS:O	1:C:3375:GLU:HG3	2.19	0.43
1:C:3635:CYS:HA	1:C:3638:MET:HB2	2.01	0.43
1:C:3762:ARG:NH1	1:C:4752:ALA:O	2.52	0.43
1:C:4569:LEU:O	1:C:4573:ILE:HD12	2.19	0.43
1:C:4960:ILE:HG21	1:C:4988:TYR:HE2	1.83	0.43
1:A:1106:ARG:HH21	1:A:1120:LEU:HD13	1.83	0.43
1:A:1106:ARG:CZ	1:A:1109:LEU:HA	2.48	0.43
1:A:1521:ASP:HB3	1:A:1524:THR:HB	2.01	0.43
1:A:2097:LEU:HD12	1:A:2098:VAL:N	2.34	0.43
1:A:2251:PHE:CD1	1:A:2286:LEU:HD13	2.54	0.43
1:A:2447:LYS:NZ	1:A:2449:GLU:H	2.17	0.43
1:A:2536:LEU:HD13	1:A:2547:ALA:HB1	2.01	0.43
1:A:2819:TRP:HE1	1:A:2881:ASN:ND2	2.17	0.43
1:A:3336:LYS:O	1:A:3340:VAL:HG13	2.19	0.43
1:A:3397:GLU:O	1:A:3400:VAL:HG22	2.18	0.43
1:A:3402:CYS:SG	1:A:3451:PHE:HE1	2.42	0.43
1:A:3591:LYS:HD2	1:A:3591:LYS:C	2.44	0.43
1:A:3995:VAL:O	1:A:3999:MET:HG2	2.19	0.43
1:A:4087:LEU:HB3	1:A:4122:MET:HB3	2.01	0.43
1:A:4998:LYS:NZ	1:A:5002:GLU:O	2.43	0.43
1:B:273:HIS:CD2	1:B:334:MET:HE2	2.54	0.43
1:B:294:THR:N	1:B:298:GLY:O	2.35	0.43
1:B:652:ARG:HB2	1:B:750:LEU:HD13	2.00	0.43
1:B:719:LEU:HA	1:B:735:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:981:GLN:O	1:B:985:VAL:HG13	2.19	0.43
1:B:1427:ILE:HD12	1:B:1427:ILE:HA	1.89	0.43
1:B:1521:ASP:HB3	1:B:1524:THR:HB	2.01	0.43
1:B:1577:ALA:HB1	1:B:1584:ARG:HA	2.00	0.43
1:B:1984:PHE:HB2	1:B:1991:THR:HG21	2.01	0.43
1:B:2360:LYS:O	1:B:2363:CYS:HB2	2.18	0.43
1:B:2474:LEU:HD13	1:B:2496:PRO:HG3	2.00	0.43
1:B:2766:TRP:O	1:B:2770:LYS:HG3	2.19	0.43
1:B:2798:SER:HB2	1:B:2800:LYS:NZ	2.33	0.43
1:B:3035:GLU:HG3	1:B:3038:MET:HE3	2.01	0.43
1:B:3159:ASP:HA	1:B:3218:VAL:HG12	2.00	0.43
1:B:3270:ILE:O	1:B:3275:PRO:HD3	2.18	0.43
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.54	0.43
1:B:3522:LEU:HB3	1:C:1220:GLN:CG	2.49	0.43
1:B:3554:GLN:HA	1:B:3557:LEU:HG	2.00	0.43
1:B:3635:CYS:HA	1:B:3638:MET:HB2	2.01	0.43
1:B:3995:VAL:O	1:B:3999:MET:HG2	2.19	0.43
1:B:4569:LEU:O	1:B:4573:ILE:HD12	2.19	0.43
1:B:4645:CYS:O	1:B:4649:LEU:HG	2.18	0.43
1:D:259:LEU:HD21	1:D:393:CYS:SG	2.58	0.43
1:D:273:HIS:CD2	1:D:334:MET:HE2	2.54	0.43
1:D:426:ARG:HG3	1:D:431:PRO:HA	2.00	0.43
1:D:652:ARG:HB2	1:D:750:LEU:HD13	2.00	0.43
1:D:719:LEU:HA	1:D:735:GLN:HE21	1.84	0.43
1:D:875:ALA:O	1:D:878:ILE:HG12	2.19	0.43
1:D:1006:SER:OG	1:D:1007:TYR:N	2.52	0.43
1:D:1261:ASP:OD2	1:D:1262:GLY:N	2.51	0.43
1:D:1447:CYS:HB3	1:D:1555:LEU:HB3	1.99	0.43
1:D:2550:LEU:HA	1:D:2553:TYR:CE2	2.54	0.43
1:D:2766:TRP:O	1:D:2770:LYS:HG3	2.19	0.43
1:D:2880:GLU:OE2	1:D:2884:ASN:ND2	2.50	0.43
1:D:3270:ILE:O	1:D:3275:PRO:HD3	2.18	0.43
1:D:3368:ARG:O	1:D:3372:VAL:HG22	2.18	0.43
1:D:3478:MET:SD	1:D:3478:MET:N	2.92	0.43
1:D:3522:LEU:HA	1:D:3525:CYS:SG	2.58	0.43
1:D:3554:GLN:HA	1:D:3557:LEU:HG	2.00	0.43
1:D:3595:ARG:HA	1:D:3598:GLU:OE1	2.19	0.43
1:D:3823:LYS:C	1:D:3824:LYS:HG2	2.44	0.43
1:D:3829:PHE:CE2	1:D:3906:GLN:HG2	2.53	0.43
1:D:4085:ARG:HH21	1:D:4122:MET:HG3	1.84	0.43
1:D:4134:GLU:HB3	1:D:4135:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4147:LEU:HD23	1:D:4147:LEU:HA	1.80	0.43
1:D:4243:PHE:O	1:D:4247:ILE:HG12	2.18	0.43
1:C:290:TYR:O	1:C:302:VAL:N	2.32	0.43
1:C:314:PHE:CE2	1:C:350:HIS:HB2	2.54	0.43
1:C:1726:SER:O	1:C:1730:MET:HG2	2.19	0.43
1:C:2176:ASN:O	1:C:2180:GLN:HG3	2.19	0.43
1:C:2313:LEU:HD12	1:C:2316:LYS:HE2	2.00	0.43
1:C:2675:THR:HG22	1:C:2710:LEU:HD21	2.00	0.43
1:C:3068:LEU:HD13	1:C:3139:VAL:HG11	2.00	0.43
1:C:3589:PRO:O	1:C:3592:ILE:HG22	2.19	0.43
1:C:3882:GLN:OE1	1:C:3957:VAL:HA	2.19	0.43
1:C:4095:LYS:HA	1:C:4098:ASP:OD2	2.19	0.43
1:C:4134:GLU:HB3	1:C:4135:PRO:HD3	2.00	0.43
1:C:4243:PHE:O	1:C:4247:ILE:HG12	2.18	0.43
1:C:4249:ALA:O	1:C:4252:SER:OG	2.29	0.43
1:C:5034:ASP:OD1	1:C:5034:ASP:N	2.52	0.43
1:A:81:MET:C	1:A:81:MET:HE2	2.44	0.43
1:A:214:VAL:HG12	1:A:341:TYR:CG	2.54	0.43
1:A:314:PHE:CE2	1:A:350:HIS:HB2	2.54	0.43
1:A:332:GLU:OE1	1:A:332:GLU:N	2.52	0.43
1:A:394:GLN:NE2	1:A:396:GLU:HG3	2.34	0.43
1:A:403:MET:HE3	1:A:403:MET:HB3	1.80	0.43
1:A:553:ARG:HG2	1:A:555:GLU:OE1	2.19	0.43
1:A:589:LEU:HA	1:A:592:LYS:HD3	2.00	0.43
1:A:688:LEU:HD23	1:A:712:TYR:HD1	1.84	0.43
1:A:791:PHE:N	1:A:1626:TRP:O	2.49	0.43
1:A:809:ALA:HB2	1:A:1017:ARG:HH12	1.84	0.43
1:A:893:TYR:H	1:A:962:SER:H	1.67	0.43
1:A:917:GLU:HA	1:A:920:TYR:CE2	2.54	0.43
1:A:1206:GLN:HA	1:A:1227:ALA:O	2.18	0.43
1:A:2895:GLU:HG2	1:A:2895:GLU:H	1.69	0.43
1:A:3667:HIS:C	1:A:3667:HIS:HD1	2.27	0.43
1:A:3762:ARG:NH1	1:A:4752:ALA:O	2.52	0.43
1:A:3768:SER:HA	1:A:3771:HIS:CE1	2.54	0.43
1:A:4085:ARG:HH21	1:A:4122:MET:HG3	1.84	0.43
1:A:4866:SER:OG	1:A:4868:ASP:O	2.33	0.43
2:G:7:ILE:CA	1:C:719:LEU:HD21	2.47	0.43
1:B:159:GLU:OE2	1:B:160:GLY:N	2.48	0.43
1:B:553:ARG:HG2	1:B:555:GLU:OE1	2.19	0.43
1:B:982:THR:HA	1:B:985:VAL:HG22	2.00	0.43
1:B:1748:PHE:HE1	1:B:1760:HIS:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2377:LEU:HB2	1:B:2465:ASP:OD2	2.19	0.43
1:B:2478:THR:O	1:B:2486:VAL:N	2.41	0.43
1:B:2819:TRP:HE1	1:B:2881:ASN:ND2	2.17	0.43
1:B:3078:ARG:HA	1:B:3081:MET:SD	2.59	0.43
1:B:3882:GLN:OE1	1:B:3957:VAL:HA	2.19	0.43
1:B:4085:ARG:HH21	1:B:4122:MET:HG3	1.84	0.43
1:B:4159:ARG:HE	1:B:4159:ARG:HB2	1.66	0.43
1:B:4204:GLN:O	1:B:4207:MET:HG2	2.19	0.43
1:D:809:ALA:HB2	1:D:1017:ARG:HH12	1.84	0.43
1:D:846:LEU:HD23	1:D:847:SER:N	2.34	0.43
1:D:893:TYR:H	1:D:962:SER:H	1.67	0.43
1:D:1005:TRP:CZ2	1:D:1013:ILE:HD13	2.54	0.43
1:D:1092:PHE:HD1	1:D:1202:LEU:HB3	1.84	0.43
1:D:1101:ARG:HB3	1:D:1123:VAL:HB	2.00	0.43
1:D:1710:GLY:O	1:D:1714:LEU:HG	2.18	0.43
1:D:2097:LEU:HD12	1:D:2098:VAL:N	2.34	0.43
1:D:2244:ARG:HE	1:D:2248:ARG:HH22	1.67	0.43
1:D:2358:ILE:HG13	1:D:2359:ARG:NH2	2.34	0.43
1:D:2447:LYS:NZ	1:D:2449:GLU:H	2.17	0.43
1:D:2481:LYS:HZ2	1:D:2486:VAL:HG22	1.84	0.43
1:D:2536:LEU:HD13	1:D:2547:ALA:HB1	2.01	0.43
1:D:3023:LYS:NZ	1:D:3024:VAL:O	2.42	0.43
1:D:3081:MET:HA	1:D:3089:LYS:NZ	2.34	0.43
1:D:3440:GLU:HA	1:D:3443:ILE:HD12	2.01	0.43
1:D:3451:PHE:HA	1:D:3454:GLU:OE2	2.18	0.43
1:D:3628:ARG:HD3	1:D:3632:VAL:HG13	2.00	0.43
1:D:3768:SER:HA	1:D:3771:HIS:CE1	2.54	0.43
1:D:4095:LYS:HA	1:D:4098:ASP:OD2	2.19	0.43
1:D:4999:ASP:OD1	1:D:5000:GLU:N	2.52	0.43
1:C:202:MET:HE3	1:C:202:MET:C	2.44	0.43
1:C:486:LEU:HD12	1:C:487:VAL:N	2.34	0.43
1:C:1577:ALA:HB1	1:C:1584:ARG:HA	2.00	0.43
1:C:1658:ASP:OD1	1:C:1659:LEU:N	2.48	0.43
1:C:3159:ASP:HA	1:C:3218:VAL:HG12	2.00	0.43
1:C:3478:MET:N	1:C:3478:MET:SD	2.92	0.43
1:A:214:VAL:HG23	1:A:274:LEU:HB2	2.00	0.42
1:A:846:LEU:HD23	1:A:847:SER:N	2.34	0.42
1:A:1516:ILE:HA	1:A:1531:ALA:HA	2.00	0.42
1:A:1965:TYR:O	1:A:1969:LEU:HG	2.19	0.42
1:A:1980:LEU:HD13	1:A:1994:ARG:HD3	2.00	0.42
1:A:2224:ARG:HB2	1:A:2225:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2358:ILE:HG13	1:A:2359:ARG:NH2	2.33	0.42
1:A:2474:LEU:HD13	1:A:2496:PRO:HG3	2.00	0.42
1:A:3160:ASP:HA	1:A:3163:VAL:HG12	2.00	0.42
1:A:3354:LEU:HB2	1:A:3415:TYR:CE2	2.54	0.42
1:A:3842:LEU:HB3	1:A:3933:PHE:CE1	2.54	0.42
1:A:3882:GLN:OE1	1:A:3957:VAL:HA	2.19	0.42
1:A:4572:ALA:O	1:A:4576:ILE:HG13	2.19	0.42
1:A:4651:THR:HG1	1:A:4803:HIS:CD2	2.37	0.42
1:B:296:ASP:OD1	1:B:296:ASP:N	2.47	0.42
1:B:613:ALA:H	1:B:1676:LEU:HD13	1.83	0.42
1:B:818:ARG:NE	1:B:1029:GLU:OE1	2.51	0.42
1:B:1106:ARG:CZ	1:B:1109:LEU:HA	2.48	0.42
1:B:1452:TRP:CD1	1:B:1452:TRP:N	2.85	0.42
1:B:2244:ARG:HE	1:B:2248:ARG:HH22	1.67	0.42
1:B:2251:PHE:CD1	1:B:2286:LEU:HD13	2.54	0.42
1:B:2703:LEU:HA	1:B:2706:ILE:HG12	2.01	0.42
1:B:3371:LYS:O	1:B:3375:GLU:HG3	2.19	0.42
1:B:3402:CYS:SG	1:B:3451:PHE:HE1	2.42	0.42
1:B:3465:ASN:C	1:B:3467:MET:H	2.27	0.42
1:B:3546:ASP:C	1:B:3550:ARG:HH21	2.27	0.42
1:B:3589:PRO:O	1:B:3592:ILE:HG22	2.19	0.42
1:B:4031:LEU:HD23	1:B:4031:LEU:HA	1.87	0.42
1:B:4087:LEU:HB3	1:B:4122:MET:HB3	2.01	0.42
1:B:4101:LYS:HB2	1:C:4730:ASP:OD1	2.19	0.42
1:B:4181:ILE:HD12	1:B:4181:ILE:HA	1.81	0.42
1:B:5006:GLN:O	1:B:5010:VAL:HG23	2.19	0.42
1:D:110:ARG:HE	1:D:115:ARG:C	2.27	0.42
1:D:314:PHE:CE2	1:D:350:HIS:HB2	2.54	0.42
1:D:613:ALA:H	1:D:1676:LEU:HD13	1.83	0.42
1:D:688:LEU:HD23	1:D:712:TYR:HD1	1.84	0.42
1:D:981:GLN:O	1:D:985:VAL:HG13	2.19	0.42
1:D:1577:ALA:HB1	1:D:1584:ARG:HA	2.00	0.42
1:D:2244:ARG:HG2	1:D:2248:ARG:HH12	1.84	0.42
1:D:2265:LEU:HB2	1:D:2330:ARG:HD3	2.01	0.42
1:D:2313:LEU:HD12	1:D:2316:LYS:HE2	2.00	0.42
1:D:2630:VAL:HG21	1:D:2678:LEU:HD13	2.01	0.42
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.52	0.42
1:D:3812:VAL:HG13	1:D:3816:MET:HE3	2.01	0.42
1:D:3885:PHE:CE1	1:D:3919:THR:HG23	2.53	0.42
1:C:110:ARG:HE	1:C:115:ARG:C	2.27	0.42
1:C:247:TYR:O	1:C:373:LYS:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:GLU:OE1	1:C:624:ASN:ND2	2.52	0.42
1:C:886:ARG:HG3	1:C:891:TRP:HE3	1.83	0.42
1:C:893:TYR:H	1:C:962:SER:H	1.67	0.42
1:C:1752:ARG:H	1:C:1752:ARG:CZ	2.32	0.42
1:C:2244:ARG:HG2	1:C:2248:ARG:HH12	1.84	0.42
1:C:2336:ARG:HG3	1:C:2435:ARG:HE	1.84	0.42
1:C:3160:ASP:HA	1:C:3163:VAL:HG12	2.00	0.42
1:C:3327:LEU:HB2	1:C:3364:ARG:NH2	2.32	0.42
1:C:3453:ARG:O	1:C:3456:GLN:HG2	2.19	0.42
1:C:4085:ARG:HH21	1:C:4122:MET:HG3	1.84	0.42
1:A:111:HIS:HD2	1:A:114:SER:HB3	1.83	0.42
1:A:202:MET:C	1:A:202:MET:HE3	2.44	0.42
1:A:273:HIS:CD2	1:A:334:MET:HE2	2.54	0.42
1:A:981:GLN:O	1:A:985:VAL:HG13	2.19	0.42
1:A:1552:VAL:HB	1:A:1564:PHE:HZ	1.84	0.42
1:A:1747:LEU:HD23	1:A:1747:LEU:HA	1.90	0.42
1:A:1808:ARG:HG3	1:A:1854:PHE:CE1	2.54	0.42
1:A:2630:VAL:HG21	1:A:2678:LEU:HD13	2.01	0.42
1:A:2779:GLU:OE1	1:A:2779:GLU:N	2.51	0.42
1:A:3529:ASP:O	1:A:3532:LEU:N	2.52	0.42
1:A:4134:GLU:HB3	1:A:4135:PRO:HD3	2.00	0.42
2:F:18:ARG:HH21	2:F:19:GLY:N	2.17	0.42
1:B:1160:ILE:HG13	1:B:1182:ILE:HD13	2.01	0.42
1:B:1206:GLN:HA	1:B:1227:ALA:O	2.18	0.42
1:B:1552:VAL:HB	1:B:1564:PHE:HZ	1.84	0.42
1:B:1965:TYR:O	1:B:1969:LEU:HG	2.19	0.42
1:B:2224:ARG:HB2	1:B:2225:PHE:CD2	2.55	0.42
1:B:3171:SER:O	1:B:3175:LEU:HG	2.20	0.42
1:B:3172:ILE:HD13	1:B:3194:LEU:CD2	2.47	0.42
1:B:3355:HIS:HA	1:B:3359:ILE:HD12	2.01	0.42
1:B:4961:CYS:SG	1:B:4983:HIS:CE1	3.11	0.42
1:D:394:GLN:NE2	1:D:396:GLU:HG3	2.34	0.42
1:D:510:GLU:OE1	1:D:510:GLU:N	2.49	0.42
1:D:978:THR:O	1:D:982:THR:HG23	2.18	0.42
1:D:999:ASP:O	1:D:1003:GLN:HG3	2.19	0.42
1:D:1828:ASP:OD1	1:D:1828:ASP:N	2.48	0.42
1:D:1987:SER:O	1:D:1991:THR:OG1	2.20	0.42
1:D:2534:ALA:HB2	1:D:2585:THR:HG23	2.00	0.42
1:D:2758:PHE:HB3	1:D:2809:ILE:HG21	2.01	0.42
1:D:3371:LYS:O	1:D:3375:GLU:HG3	2.19	0.42
1:D:3635:CYS:HA	1:D:3638:MET:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3882:GLN:OE1	1:D:3957:VAL:HA	2.19	0.42
1:D:4185:GLY:HA3	1:D:4189:ARG:O	2.18	0.42
1:D:4546:VAL:HA	1:D:4549:VAL:HG22	2.01	0.42
1:C:375:LYS:HD2	1:C:376:ALA:N	2.34	0.42
1:C:663:TYR:HD2	1:C:804:PRO:HB3	1.84	0.42
1:C:675:LEU:HD22	1:C:786:GLY:HA3	2.01	0.42
1:C:954:LYS:HA	1:C:954:LYS:HD2	1.75	0.42
1:C:1005:TRP:CZ2	1:C:1013:ILE:HD13	2.54	0.42
1:C:1290:ARG:HB3	1:C:1598:GLN:HB2	2.00	0.42
1:C:1965:TYR:O	1:C:1969:LEU:HG	2.19	0.42
1:C:3078:ARG:HA	1:C:3081:MET:SD	2.59	0.42
1:C:3825:GLU:OE2	1:C:3827:GLY:N	2.48	0.42
1:C:3892:CYS:SG	1:C:3967:GLU:HG3	2.58	0.42
1:C:4060:LYS:HA	1:C:4060:LYS:HD2	1.83	0.42
1:A:598:LYS:HD2	1:A:598:LYS:HA	1.84	0.42
1:A:675:LEU:HD22	1:A:786:GLY:HA3	2.01	0.42
1:A:1006:SER:OG	1:A:1007:TYR:N	2.52	0.42
1:A:1771:LEU:O	1:A:1772:ARG:HD3	2.19	0.42
1:A:2116:LEU:O	1:A:2120:MET:HG2	2.19	0.42
1:A:2377:LEU:HD13	1:A:2469:ILE:HG13	2.01	0.42
1:A:3035:GLU:HG3	1:A:3038:MET:HE3	2.01	0.42
1:A:3355:HIS:HA	1:A:3359:ILE:HD12	2.01	0.42
1:A:3446:SER:HA	1:A:3452:LYS:HD3	2.00	0.42
1:A:3622:LYS:HE2	1:A:3622:LYS:HB2	1.71	0.42
1:A:3689:GLU:O	1:A:3693:LYS:N	2.52	0.42
1:A:3762:ARG:HH12	1:A:4754:ASN:N	2.18	0.42
1:A:3812:VAL:HG13	1:A:3816:MET:HE3	2.01	0.42
1:A:4239:GLU:O	1:A:4240:ASP:C	2.61	0.42
1:A:5034:ASP:OD1	1:A:5034:ASP:N	2.52	0.42
1:B:117:TYR:OH	1:B:146:CYS:O	2.31	0.42
1:B:214:VAL:HG12	1:B:341:TYR:CG	2.54	0.42
1:B:214:VAL:HG23	1:B:274:LEU:HB2	2.00	0.42
1:B:314:PHE:CE2	1:B:350:HIS:HB2	2.54	0.42
1:B:580:GLU:OE1	1:B:624:ASN:ND2	2.52	0.42
1:B:1827:ARG:O	1:B:1829:PRO:HD3	2.19	0.42
1:B:3048:ALA:O	1:B:3051:ARG:HB3	2.18	0.42
1:B:3762:ARG:HH12	1:B:4754:ASN:N	2.18	0.42
1:B:3842:LEU:HB3	1:B:3933:PHE:CE1	2.54	0.42
1:B:3906:GLN:NE2	1:B:3913:ILE:O	2.44	0.42
1:B:4095:LYS:HA	1:B:4098:ASP:OD2	2.19	0.42
1:B:4572:ALA:O	1:B:4576:ILE:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:117:TYR:O	1:D:138:GLN:N	2.31	0.42
1:D:663:TYR:HD2	1:D:804:PRO:HB3	1.85	0.42
1:D:1116:GLY:HA3	1:D:1132:TRP:HB3	2.01	0.42
1:D:1552:VAL:HB	1:D:1564:PHE:HZ	1.84	0.42
1:D:2199:ARG:HA	1:D:2204:HIS:CE1	2.54	0.42
1:D:2243:SER:OG	1:D:2245:GLN:OE1	2.18	0.42
1:D:2779:GLU:OE1	1:D:2779:GLU:N	2.51	0.42
1:D:2819:TRP:HE1	1:D:2881:ASN:ND2	2.17	0.42
1:D:3171:SER:O	1:D:3175:LEU:HG	2.20	0.42
1:D:3355:HIS:HA	1:D:3359:ILE:HD12	2.01	0.42
1:D:3431:ALA:HA	1:D:3434:LEU:HD12	2.01	0.42
1:D:3689:GLU:O	1:D:3693:LYS:N	2.52	0.42
1:D:3782:MET:C	1:D:3782:MET:SD	3.02	0.42
1:D:4185:GLY:O	1:D:4188:ARG:NH2	2.53	0.42
1:D:4572:ALA:O	1:D:4576:ILE:HG13	2.19	0.42
1:D:4732:PHE:CE1	1:D:4736:ARG:HD2	2.53	0.42
1:C:259:LEU:HD21	1:C:393:CYS:SG	2.58	0.42
1:C:553:ARG:HG2	1:C:555:GLU:OE1	2.19	0.42
1:C:597:HIS:HD2	1:C:1665:HIS:CE1	2.37	0.42
1:C:976:ARG:HD3	1:C:976:ARG:HA	1.66	0.42
1:C:978:THR:O	1:C:982:THR:HG23	2.18	0.42
1:C:1229:ASN:H	1:C:1827:ARG:CZ	2.32	0.42
1:C:1274:HIS:CD2	1:C:1277:TRP:HB2	2.53	0.42
1:C:1984:PHE:HB2	1:C:1991:THR:HG21	2.01	0.42
1:C:2165:LEU:HA	1:C:2165:LEU:HD12	1.71	0.42
1:C:2358:ILE:HG13	1:C:2359:ARG:NH2	2.33	0.42
1:C:2377:LEU:HD13	1:C:2469:ILE:HG13	2.01	0.42
1:C:2478:THR:O	1:C:2486:VAL:N	2.41	0.42
1:C:2522:LEU:HB3	1:C:2527:LEU:HG	2.00	0.42
1:C:2819:TRP:HE1	1:C:2881:ASN:ND2	2.17	0.42
1:C:3529:ASP:O	1:C:3532:LEU:N	2.52	0.42
1:C:3595:ARG:HA	1:C:3598:GLU:OE1	2.19	0.42
1:C:3842:LEU:HB3	1:C:3933:PHE:CE1	2.54	0.42
1:C:3892:CYS:SG	1:C:3968:TYR:HA	2.59	0.42
1:C:3995:VAL:O	1:C:3999:MET:HG2	2.19	0.42
1:C:4184:MET:HE3	1:C:5021:PHE:HA	2.01	0.42
1:C:4247:ILE:O	1:C:4251:ILE:HG23	2.19	0.42
1:C:4546:VAL:HA	1:C:4549:VAL:HG22	2.01	0.42
1:A:115:ARG:HE	1:A:399:GLN:HE21	1.66	0.42
1:A:596:ASN:ND2	1:A:599:VAL:HG23	2.35	0.42
1:A:681:HIS:O	1:A:784:SER:N	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:772:ASN:HB2	1:A:1470:ARG:HH11	1.83	0.42
1:A:875:ALA:O	1:A:878:ILE:HG12	2.19	0.42
1:A:1011:GLN:HB3	1:A:1019:PRO:HD2	2.01	0.42
1:A:1074:ILE:HG12	1:A:1605:TRP:HH2	1.84	0.42
1:A:1511:HIS:ND1	1:A:1511:HIS:N	2.65	0.42
1:A:2534:ALA:HB2	1:A:2585:THR:HG23	2.00	0.42
1:A:2647:HIS:HB2	1:A:2650:ARG:HE	1.84	0.42
1:A:2967:MET:O	1:A:2971:GLN:HG2	2.19	0.42
1:A:3453:ARG:HA	1:A:3456:GLN:NE2	2.35	0.42
1:A:3589:PRO:O	1:A:3593:VAL:HG13	2.20	0.42
1:A:3694:LYS:HA	1:A:3695:PRO:HD3	1.92	0.42
1:A:4677:LEU:HA	1:A:4680:LYS:HE2	2.00	0.42
1:A:4680:LYS:HE2	1:A:4680:LYS:HB2	1.67	0.42
1:A:4963:ILE:HD11	1:A:5026:ASP:N	2.35	0.42
2:E:25:HIS:HD1	2:E:40:ARG:HD2	1.85	0.42
2:H:56:ILE:HD12	2:H:56:ILE:H	1.85	0.42
2:G:52:LYS:HB3	2:G:54:GLU:OE1	2.20	0.42
1:B:41:GLY:O	1:B:45:ARG:NH2	2.47	0.42
1:B:81:MET:C	1:B:81:MET:HE2	2.44	0.42
1:B:111:HIS:HD2	1:B:114:SER:HB3	1.83	0.42
1:B:596:ASN:ND2	1:B:599:VAL:HG23	2.35	0.42
1:B:1011:GLN:HB3	1:B:1019:PRO:HD2	2.00	0.42
1:B:1229:ASN:H	1:B:1827:ARG:CZ	2.32	0.42
1:B:2967:MET:O	1:B:2971:GLN:HG2	2.19	0.42
1:B:3431:ALA:HA	1:B:3434:LEU:HD12	2.01	0.42
1:B:3702:VAL:HG13	1:B:3778:MET:SD	2.60	0.42
1:D:308:HIS:CD2	1:D:310:LYS:HB3	2.54	0.42
1:D:884:LEU:HA	1:D:887:ILE:HG22	2.00	0.42
1:D:928:THR:HG22	1:D:988:LEU:HD11	2.02	0.42
1:D:1980:LEU:O	1:D:1984:PHE:HB3	2.20	0.42
1:D:2176:ASN:O	1:D:2180:GLN:HG3	2.19	0.42
1:D:2522:LEU:HB3	1:D:2527:LEU:HG	2.00	0.42
1:D:2999:ALA:O	1:D:3003:LEU:HB2	2.20	0.42
1:D:3033:ASN:O	1:D:3037:GLU:HG2	2.18	0.42
1:D:3281:LEU:HB3	1:D:3282:PRO:HD3	2.00	0.42
1:D:3327:LEU:HB2	1:D:3364:ARG:NH2	2.33	0.42
1:D:3336:LYS:O	1:D:3340:VAL:HG13	2.18	0.42
1:D:3359:ILE:HG23	1:D:3434:LEU:HD21	2.01	0.42
1:D:3453:ARG:HA	1:D:3456:GLN:NE2	2.35	0.42
1:D:3969:ILE:CD1	1:D:3977:GLN:HG2	2.49	0.42
1:D:4159:ARG:HA	1:D:4162:ASN:ND2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4184:MET:HE3	1:D:5021:PHE:HA	2.01	0.42
1:D:4651:THR:HG1	1:D:4803:HIS:CD2	2.36	0.42
1:C:257:ARG:O	1:C:284:HIS:NE2	2.34	0.42
1:C:472:ARG:HA	1:C:472:ARG:HH11	1.85	0.42
1:C:493:ARG:O	1:C:496:VAL:HG22	2.20	0.42
1:C:652:ARG:HB2	1:C:750:LEU:HD13	2.00	0.42
1:C:688:LEU:HD23	1:C:712:TYR:HD1	1.84	0.42
1:C:1006:SER:C	1:C:1021:LEU:HD22	2.45	0.42
1:C:1006:SER:OG	1:C:1007:TYR:N	2.52	0.42
1:C:1749:PRO:HA	1:C:1750:PRO:HD3	1.96	0.42
1:C:2224:ARG:HB2	1:C:2225:PHE:CD2	2.55	0.42
1:C:2347:GLU:OE2	1:C:2347:GLU:N	2.32	0.42
1:C:2534:ALA:HB2	1:C:2585:THR:HG23	2.00	0.42
1:C:2643:LEU:HD12	1:C:2644:LEU:N	2.34	0.42
1:C:3171:SER:O	1:C:3175:LEU:HG	2.20	0.42
1:C:3440:GLU:HA	1:C:3443:ILE:HD12	2.01	0.42
1:C:3628:ARG:HD3	1:C:3632:VAL:HG13	2.00	0.42
1:A:375:LYS:HD2	1:A:376:ALA:N	2.34	0.42
1:A:597:HIS:HD2	1:A:1665:HIS:CE1	2.37	0.42
1:A:663:TYR:HD2	1:A:804:PRO:HB3	1.85	0.42
1:A:1005:TRP:CZ2	1:A:1013:ILE:HD13	2.54	0.42
1:A:1116:GLY:HA3	1:A:1132:TRP:HB3	2.01	0.42
1:A:1274:HIS:CD2	1:A:1277:TRP:HB2	2.54	0.42
1:A:2999:ALA:O	1:A:3003:LEU:HB2	2.20	0.42
1:A:3105:LYS:O	1:A:3108:GLU:HG2	2.19	0.42
1:A:3823:LYS:C	1:A:3824:LYS:HG2	2.44	0.42
1:A:4247:ILE:O	1:A:4251:ILE:HG23	2.19	0.42
1:A:4961:CYS:SG	1:A:4983:HIS:CE1	3.11	0.42
1:A:4974:GLY:O	1:A:4977:THR:OG1	2.32	0.42
1:A:4999:ASP:OD1	1:A:5000:GLU:N	2.52	0.42
1:A:5006:GLN:O	1:A:5010:VAL:HG23	2.19	0.42
2:E:84:ALA:O	2:E:93:PRO:HB3	2.19	0.42
2:H:8:SER:CB	2:H:71:ARG:HB3	2.48	0.42
2:H:84:ALA:O	2:H:93:PRO:HB3	2.19	0.42
2:F:47:LYS:HD3	2:F:47:LYS:N	2.35	0.42
1:B:597:HIS:HD2	1:B:1665:HIS:CE1	2.37	0.42
1:B:846:LEU:HD23	1:B:847:SER:N	2.34	0.42
1:B:904:HIS:HB3	1:B:907:LEU:HB3	2.02	0.42
1:B:999:ASP:O	1:B:1003:GLN:HG3	2.19	0.42
1:B:1005:TRP:CZ2	1:B:1013:ILE:HD13	2.54	0.42
1:B:1074:ILE:HG12	1:B:1605:TRP:HH2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1105:ALA:N	1:B:1189:LEU:O	2.39	0.42
1:B:1516:ILE:HA	1:B:1531:ALA:HA	2.00	0.42
1:B:1716:ILE:CG2	1:B:1847:THR:HG21	2.50	0.42
1:B:2176:ASN:O	1:B:2180:GLN:HG3	2.19	0.42
1:B:2227:LYS:O	1:B:2231:SER:OG	2.33	0.42
1:B:2377:LEU:HD13	1:B:2469:ILE:HG13	2.01	0.42
1:B:2630:VAL:HG21	1:B:2678:LEU:HD13	2.01	0.42
1:B:3204:ALA:HB2	1:B:3284:TRP:CD2	2.55	0.42
1:B:3514:LEU:HA	1:B:3517:MET:HG2	2.02	0.42
1:B:3522:LEU:CD2	1:C:1220:GLN:OE1	2.68	0.42
1:B:3589:PRO:O	1:B:3593:VAL:HG13	2.20	0.42
1:B:3667:HIS:HD1	1:B:3667:HIS:C	2.27	0.42
1:B:5034:ASP:OD1	1:B:5034:ASP:N	2.52	0.42
1:D:1984:PHE:HB2	1:D:1991:THR:HG21	2.01	0.42
1:D:3078:ARG:HA	1:D:3081:MET:SD	2.59	0.42
1:D:3348:ARG:CZ	1:D:3348:ARG:HA	2.50	0.42
1:D:4150:LEU:HD23	1:D:4150:LEU:HA	1.76	0.42
1:D:4204:GLN:O	1:D:4207:MET:HG2	2.19	0.42
1:D:4960:ILE:HG21	1:D:4988:TYR:HE2	1.83	0.42
1:C:214:VAL:HG12	1:C:341:TYR:CG	2.54	0.42
1:C:875:ALA:O	1:C:878:ILE:HG12	2.19	0.42
1:C:884:LEU:HA	1:C:887:ILE:HG22	2.00	0.42
1:C:1021:LEU:HD23	1:C:1021:LEU:O	2.20	0.42
1:C:1106:ARG:HH21	1:C:1120:LEU:HD13	1.83	0.42
1:C:1491:ASN:OD1	1:C:1491:ASN:N	2.52	0.42
1:C:1660:GLN:NE2	1:C:1660:GLN:O	2.48	0.42
1:C:1808:ARG:HG3	1:C:1854:PHE:CE1	2.54	0.42
1:C:1950:GLU:O	1:C:1954:ARG:HG3	2.18	0.42
1:C:2012:PHE:HD1	1:C:3661:TRP:HZ2	1.68	0.42
1:C:2155:LEU:HD22	1:C:2188:ASN:OD1	2.20	0.42
1:C:2189:LYS:NZ	1:C:2192:TYR:HB2	2.29	0.42
1:C:2377:LEU:HB2	1:C:2465:ASP:OD2	2.19	0.42
1:C:3348:ARG:HA	1:C:3348:ARG:CZ	2.50	0.42
1:C:3352:GLU:OE2	1:C:3352:GLU:N	2.34	0.42
1:C:3514:LEU:HA	1:C:3517:MET:HG2	2.02	0.42
1:C:3591:LYS:HD2	1:C:3591:LYS:C	2.44	0.42
1:C:3702:VAL:HG13	1:C:3778:MET:SD	2.60	0.42
1:C:4999:ASP:OD1	1:C:5000:GLU:N	2.52	0.42
1:A:214:VAL:CG2	1:A:339:ILE:HB	2.50	0.42
1:A:469:ARG:NH2	1:A:3710:LEU:O	2.48	0.42
1:A:493:ARG:O	1:A:496:VAL:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1568:LYS:CD	1:A:1574:PRO:HA	2.50	0.42
1:A:1612:PHE:O	1:A:1614:GLN:NE2	2.44	0.42
1:A:2036:GLN:NE2	1:A:2045:GLN:OE1	2.50	0.42
1:A:2643:LEU:HD12	1:A:2644:LEU:N	2.34	0.42
1:A:2758:PHE:HB3	1:A:2809:ILE:HG21	2.01	0.42
1:A:3078:ARG:HA	1:A:3081:MET:SD	2.59	0.42
1:A:3081:MET:HA	1:A:3089:LYS:NZ	2.34	0.42
1:A:3204:ALA:HB2	1:A:3284:TRP:CD2	2.55	0.42
1:A:3269:VAL:HA	1:A:3273:THR:OG1	2.20	0.42
1:A:3478:MET:N	1:A:3478:MET:SD	2.92	0.42
1:A:3614:LYS:H	1:A:3614:LYS:HG2	1.56	0.42
1:A:4165:GLU:HA	1:A:4168:GLU:HG2	2.02	0.42
1:A:4902:GLU:H	1:A:4902:GLU:CD	2.18	0.42
2:E:36:PHE:CE1	2:E:97:LEU:HD11	2.55	0.42
2:F:18:ARG:C	2:F:18:ARG:HD3	2.44	0.42
1:B:115:ARG:NE	1:B:399:GLN:HE21	2.17	0.42
1:B:214:VAL:CG2	1:B:339:ILE:HB	2.50	0.42
1:B:886:ARG:HG3	1:B:891:TRP:HE3	1.83	0.42
1:B:893:TYR:H	1:B:962:SER:H	1.67	0.42
1:B:1130:GLN:HG2	1:B:1132:TRP:CD1	2.55	0.42
1:B:1586:ASN:HD21	1:B:1588:ALA:HB3	1.85	0.42
1:B:2647:HIS:HB2	1:B:2650:ARG:HE	1.84	0.42
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.19	0.42
1:B:3348:ARG:CZ	1:B:3348:ARG:HA	2.50	0.42
1:B:3478:MET:HE3	1:C:1141:ARG:NH1	2.26	0.42
1:B:3629:ARG:HE	1:B:3632:VAL:HG21	1.85	0.42
1:B:3667:HIS:C	1:B:3667:HIS:ND1	2.78	0.42
1:B:3892:CYS:SG	1:B:3968:TYR:HA	2.59	0.42
1:D:239:ASP:O	1:D:241:GLN:NE2	2.51	0.42
1:D:917:GLU:HA	1:D:920:TYR:CE2	2.54	0.42
1:D:957:LYS:HD3	1:D:957:LYS:HA	1.81	0.42
1:D:1006:SER:C	1:D:1021:LEU:HD22	2.45	0.42
1:D:2155:LEU:HD22	1:D:2188:ASN:OD1	2.20	0.42
1:D:2647:HIS:HB2	1:D:2650:ARG:HE	1.84	0.42
1:D:3192:GLU:O	1:D:3196:ARG:HG2	2.19	0.42
1:D:3391:GLU:HG3	1:D:3395:ARG:CZ	2.50	0.42
1:D:3667:HIS:HD1	1:D:3667:HIS:C	2.27	0.42
1:D:3762:ARG:NH1	1:D:4752:ALA:O	2.52	0.42
1:D:3995:VAL:O	1:D:3999:MET:HG2	2.19	0.42
1:D:4184:MET:SD	1:D:4188:ARG:NH2	2.77	0.42
1:D:4634:GLU:OE2	1:D:4637:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5017:ARG:HH11	1:D:5017:ARG:HG3	1.83	0.42
1:C:81:MET:C	1:C:81:MET:HE2	2.44	0.42
1:C:115:ARG:HE	1:C:399:GLN:HE21	1.66	0.42
1:C:214:VAL:CG2	1:C:339:ILE:HB	2.50	0.42
1:C:276:TRP:HZ3	1:C:346:CYS:SG	2.43	0.42
1:C:846:LEU:HD23	1:C:847:SER:N	2.34	0.42
1:C:982:THR:HA	1:C:985:VAL:HG22	2.00	0.42
1:C:1101:ARG:HB3	1:C:1123:VAL:HB	2.00	0.42
1:C:1586:ASN:HD21	1:C:1588:ALA:HB3	1.85	0.42
1:C:1716:ILE:CG2	1:C:1847:THR:HG21	2.50	0.42
1:C:2014:ASP:OD1	1:C:2014:ASP:N	2.53	0.42
1:C:3465:ASN:C	1:C:3467:MET:H	2.27	0.42
1:C:3629:ARG:HE	1:C:3632:VAL:HG21	1.85	0.42
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.52	0.42
1:C:4159:ARG:HA	1:C:4162:ASN:ND2	2.32	0.42
1:C:4634:GLU:OE2	1:C:4637:GLY:N	2.53	0.42
1:C:4718:LYS:HD3	1:C:4718:LYS:N	2.35	0.42
1:C:4958:CYS:CB	1:C:4961:CYS:HB2	2.50	0.42
1:A:438:ILE:H	1:A:438:ILE:HG13	1.67	0.42
1:A:645:ARG:CZ	1:A:826:ILE:HD13	2.50	0.42
1:A:875:ALA:C	1:A:879:HIS:HD1	2.16	0.42
1:A:1091:GLU:HG2	1:A:1148:VAL:HG12	2.01	0.42
1:A:1100:MET:HB3	1:A:1193:SER:O	2.20	0.42
1:A:1613:LEU:HD23	1:A:1613:LEU:HA	1.81	0.42
1:A:2550:LEU:HA	1:A:2553:TYR:CE2	2.54	0.42
1:A:3327:LEU:HB2	1:A:3364:ARG:NH2	2.33	0.42
1:A:3554:GLN:HA	1:A:3557:LEU:HG	2.00	0.42
1:A:3836:MET:HE1	1:A:3837:GLN:HE21	1.85	0.42
1:A:4634:GLU:OE2	1:A:4637:GLY:N	2.53	0.42
1:A:4823:LEU:HD22	1:B:4843:LEU:HD22	2.00	0.42
1:B:182:LEU:HD13	1:B:182:LEU:HA	1.88	0.42
1:B:332:GLU:OE1	1:B:332:GLU:N	2.52	0.42
1:B:484:LEU:O	1:B:488:LEU:HG	2.20	0.42
1:B:551:LEU:HB3	1:B:589:LEU:HD11	1.99	0.42
1:B:875:ALA:O	1:B:878:ILE:HG12	2.19	0.42
1:B:1153:ILE:CD1	1:B:1160:ILE:HG12	2.50	0.42
1:B:2199:ARG:HA	1:B:2204:HIS:CE1	2.54	0.42
1:B:2336:ARG:HG3	1:B:2435:ARG:HE	1.83	0.42
1:B:2358:ILE:HG13	1:B:2359:ARG:NH2	2.34	0.42
1:B:2536:LEU:HD13	1:B:2547:ALA:HB1	2.01	0.42
1:B:3397:GLU:O	1:B:3400:VAL:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3595:ARG:HA	1:B:3598:GLU:OE1	2.19	0.42
1:B:3762:ARG:NH1	1:B:4752:ALA:O	2.52	0.42
1:B:4134:GLU:HB3	1:B:4135:PRO:HD3	2.00	0.42
1:B:4160:LEU:HD12	1:B:4160:LEU:HA	1.89	0.42
1:B:4185:GLY:O	1:B:4188:ARG:NH2	2.53	0.42
1:B:4229:GLU:H	1:B:4229:GLU:CD	2.25	0.42
1:B:4239:GLU:O	1:B:4240:ASP:C	2.61	0.42
1:B:4718:LYS:HD3	1:B:4718:LYS:N	2.35	0.42
1:B:4720:VAL:O	1:B:4724:VAL:HG23	2.20	0.42
1:D:172:VAL:HG12	1:D:178:ARG:C	2.45	0.42
1:D:332:GLU:OE1	1:D:332:GLU:N	2.52	0.42
1:D:375:LYS:HD2	1:D:376:ALA:N	2.34	0.42
1:D:596:ASN:ND2	1:D:599:VAL:HG23	2.35	0.42
1:D:982:THR:HA	1:D:985:VAL:HG22	2.00	0.42
1:D:1220:GLN:OE1	1:C:3522:LEU:HD22	2.19	0.42
1:D:1771:LEU:O	1:D:1772:ARG:HD3	2.19	0.42
1:D:2643:LEU:HD12	1:D:2644:LEU:N	2.34	0.42
1:D:2686:LEU:HD22	1:D:2997:PHE:CD1	2.55	0.42
1:D:2761:TYR:HA	1:D:2764:GLU:HB2	2.02	0.42
1:D:2871:LEU:HA	1:D:2874:MET:HE2	2.02	0.42
1:D:3836:MET:HE1	1:D:3837:GLN:HE21	1.85	0.42
1:D:4579:PHE:O	1:D:4632:LEU:HG	2.20	0.42
1:C:545:ASP:OD1	1:C:545:ASP:N	2.50	0.42
1:C:904:HIS:HB3	1:C:907:LEU:HB3	2.02	0.42
1:C:1130:GLN:HG2	1:C:1132:TRP:CD1	2.55	0.42
1:C:1521:ASP:HB3	1:C:1524:THR:HB	2.01	0.42
1:C:2630:VAL:HG21	1:C:2678:LEU:HD13	2.01	0.42
1:C:2967:MET:O	1:C:2971:GLN:HG2	2.19	0.42
1:C:3081:MET:HA	1:C:3089:LYS:NZ	2.34	0.42
1:C:3354:LEU:HB2	1:C:3415:TYR:CE2	2.54	0.42
1:C:3355:HIS:HA	1:C:3359:ILE:HD12	2.02	0.42
1:C:3546:ASP:C	1:C:3550:ARG:HH21	2.27	0.42
1:A:418:LEU:HA	1:A:421:PHE:CE2	2.55	0.42
1:A:999:ASP:O	1:A:1003:GLN:HG3	2.19	0.42
1:A:1491:ASN:OD1	1:A:1491:ASN:N	2.52	0.42
1:A:2006:ILE:O	1:A:2010:LEU:HD23	2.20	0.42
1:A:2686:LEU:HD22	1:A:2997:PHE:CD1	2.55	0.42
1:A:3285:TRP:HA	1:A:3307:VAL:HB	2.02	0.42
1:A:3348:ARG:CZ	1:A:3348:ARG:HA	2.50	0.42
1:A:3453:ARG:O	1:A:3456:GLN:HG2	2.19	0.42
2:E:79:ASP:OD2	2:E:79:ASP:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:110:ARG:HE	1:B:115:ARG:C	2.27	0.42
1:B:125:ARG:O	1:B:125:ARG:HD2	2.20	0.42
1:B:308:HIS:O	1:B:308:HIS:CG	2.73	0.42
1:B:493:ARG:O	1:B:496:VAL:HG22	2.20	0.42
1:B:809:ALA:HB2	1:B:1017:ARG:HH12	1.84	0.42
1:B:817:PRO:C	1:B:1028:ASP:HB3	2.45	0.42
1:B:1006:SER:OG	1:B:1007:TYR:N	2.52	0.42
1:B:1012:ASP:CG	1:B:1014:PRO:HD2	2.45	0.42
1:B:1747:LEU:HD23	1:B:1747:LEU:HA	1.89	0.42
1:B:2550:LEU:HA	1:B:2553:TYR:CE2	2.54	0.42
1:B:3290:GLU:OE1	1:B:3308:THR:HA	2.20	0.42
1:B:3446:SER:HA	1:B:3452:LYS:HD3	2.00	0.42
1:B:5026:ASP:OD1	1:B:5027:CYS:N	2.52	0.42
1:D:109:LEU:H	1:D:117:TYR:HE1	1.66	0.42
1:D:418:LEU:HA	1:D:421:PHE:CE2	2.55	0.42
1:D:675:LEU:HD22	1:D:786:GLY:HA3	2.01	0.42
1:D:793:LEU:HD23	1:D:793:LEU:HA	1.83	0.42
1:D:887:ILE:HG12	1:D:959:TYR:CG	2.55	0.42
1:D:904:HIS:HB3	1:D:907:LEU:HB3	2.02	0.42
1:D:2351:ASN:HB3	1:D:2355:ARG:NH2	2.35	0.42
1:D:3105:LYS:O	1:D:3108:GLU:HG2	2.19	0.42
1:D:3762:ARG:HH12	1:D:4754:ASN:N	2.18	0.42
1:D:4569:LEU:O	1:D:4573:ILE:HD12	2.19	0.42
1:D:4720:VAL:O	1:D:4724:VAL:HG23	2.20	0.42
1:C:172:VAL:HG12	1:C:178:ARG:C	2.45	0.42
1:C:928:THR:HG22	1:C:988:LEU:HD11	2.02	0.42
1:C:1274:HIS:HB3	1:C:1277:TRP:HB2	2.01	0.42
1:C:2265:LEU:HB2	1:C:2330:ARG:HD3	2.01	0.42
1:C:2479:LEU:H	1:C:2479:LEU:HD22	1.85	0.42
1:C:3202:PRO:C	1:C:3284:TRP:HH2	2.28	0.42
1:C:3442:PHE:CE2	1:C:3605:HIS:HB3	2.55	0.42
1:C:3762:ARG:HH12	1:C:4754:ASN:N	2.18	0.42
1:C:4963:ILE:HD11	1:C:5026:ASP:N	2.35	0.42
1:A:904:HIS:HB3	1:A:907:LEU:HB3	2.02	0.42
1:A:928:THR:HG22	1:A:988:LEU:HD11	2.02	0.42
1:A:982:THR:HA	1:A:985:VAL:HG22	2.00	0.42
1:A:1092:PHE:HD1	1:A:1202:LEU:HB3	1.84	0.42
1:A:1581:LEU:HA	1:A:1584:ARG:HB2	1.99	0.42
1:A:2766:TRP:O	1:A:2770:LYS:HG3	2.19	0.42
1:A:3371:LYS:O	1:A:3375:GLU:HG3	2.19	0.42
1:A:3595:ARG:HA	1:A:3598:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3652:MET:HG2	1:A:3652:MET:H	1.60	0.42
1:A:4835:LYS:O	1:A:4839:MET:SD	2.78	0.42
2:E:100:ASP:N	2:E:100:ASP:OD1	2.52	0.42
1:B:202:MET:C	1:B:202:MET:HE3	2.44	0.42
1:B:426:ARG:HG3	1:B:431:PRO:HA	2.00	0.42
1:B:603:LEU:HD11	1:B:621:ILE:HG12	2.02	0.42
1:B:683:ARG:HG2	1:B:707:VAL:O	2.20	0.42
1:B:790:ARG:HA	1:B:1627:ALA:HA	2.02	0.42
1:B:1092:PHE:HD1	1:B:1202:LEU:HB3	1.84	0.42
1:B:1100:MET:HB3	1:B:1193:SER:O	2.20	0.42
1:B:1229:ASN:ND2	1:B:1827:ARG:HG3	2.35	0.42
1:B:2116:LEU:O	1:B:2120:MET:HG2	2.19	0.42
1:B:2265:LEU:HB2	1:B:2330:ARG:HD3	2.01	0.42
1:B:2889:LYS:HA	1:B:2892:GLN:HG2	2.02	0.42
1:B:3202:PRO:C	1:B:3284:TRP:HH2	2.28	0.42
1:B:3614:LYS:H	1:B:3614:LYS:HG2	1.56	0.42
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.52	0.42
1:B:4003:LEU:HD21	1:B:4012:LEU:HD23	2.02	0.42
1:B:4247:ILE:O	1:B:4251:ILE:HG23	2.19	0.42
1:B:4999:ASP:OD1	1:B:5000:GLU:N	2.52	0.42
1:D:214:VAL:HG12	1:D:341:TYR:CG	2.54	0.42
1:D:308:HIS:O	1:D:308:HIS:CG	2.73	0.42
1:D:598:LYS:HD2	1:D:598:LYS:HA	1.84	0.42
1:D:1021:LEU:O	1:D:1021:LEU:HD23	2.20	0.42
1:D:1290:ARG:HB3	1:D:1598:GLN:HB2	2.00	0.42
1:D:1481:GLY:O	1:D:1482:ASN:C	2.63	0.42
1:D:1521:ASP:HB3	1:D:1524:THR:HB	2.01	0.42
1:D:2006:ILE:O	1:D:2010:LEU:HD23	2.20	0.42
1:D:2377:LEU:HD13	1:D:2469:ILE:HG13	2.01	0.42
1:D:2527:LEU:O	1:D:2531:ARG:HG2	2.20	0.42
1:D:2914:LYS:H	1:D:2914:LYS:HG3	1.69	0.42
1:D:3402:CYS:SG	1:D:3451:PHE:HE1	2.42	0.42
1:D:3589:PRO:O	1:D:3593:VAL:HG13	2.20	0.42
1:D:3985:LEU:O	1:D:3989:VAL:HG23	2.20	0.42
1:C:273:HIS:CD2	1:C:334:MET:HE2	2.54	0.42
1:C:418:LEU:HA	1:C:421:PHE:CE2	2.55	0.42
1:C:469:ARG:NH2	1:C:3710:LEU:O	2.48	0.42
1:C:598:LYS:HD2	1:C:598:LYS:HA	1.84	0.42
1:C:809:ALA:HB2	1:C:1017:ARG:HH12	1.84	0.42
1:C:817:PRO:C	1:C:1028:ASP:HB3	2.45	0.42
1:C:897:ARG:HG3	1:C:904:HIS:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1092:PHE:HD1	1:C:1202:LEU:HB3	1.84	0.42
1:C:1131:ARG:NH1	1:C:1139:PHE:HB2	2.32	0.42
1:C:1452:TRP:CD1	1:C:1452:TRP:N	2.85	0.42
1:C:2608:MET:HG2	1:C:2608:MET:H	1.74	0.42
1:C:2647:HIS:HB2	1:C:2650:ARG:HE	1.84	0.42
1:C:3402:CYS:SG	1:C:3451:PHE:HE1	2.42	0.42
1:C:3527:PRO:HA	1:C:3530:GLN:HG3	2.02	0.42
1:C:5006:GLN:O	1:C:5010:VAL:HG23	2.19	0.42
1:A:840:VAL:HG13	1:A:1199:VAL:HG22	2.02	0.42
1:A:1153:ILE:CD1	1:A:1160:ILE:HG12	2.50	0.42
1:A:1481:GLY:O	1:A:1482:ASN:C	2.63	0.42
1:A:1586:ASN:HD21	1:A:1588:ALA:HB3	1.85	0.42
1:A:2349:ASN:OD1	1:A:3849:ARG:NH2	2.53	0.42
1:A:2785:LEU:HD23	1:A:2785:LEU:HA	1.94	0.42
1:A:3431:ALA:HA	1:A:3434:LEU:HD12	2.01	0.42
1:A:3440:GLU:HA	1:A:3443:ILE:HD12	2.01	0.42
1:A:3629:ARG:HE	1:A:3632:VAL:HG21	1.85	0.42
1:A:4031:LEU:HD23	1:A:4031:LEU:HA	1.88	0.42
1:A:4150:LEU:HA	1:A:4150:LEU:HD23	1.76	0.42
1:A:4185:GLY:O	1:A:4188:ARG:NH2	2.53	0.42
1:A:4204:GLN:O	1:A:4207:MET:HG2	2.19	0.42
1:A:4720:VAL:O	1:A:4724:VAL:HG23	2.20	0.42
1:A:4767:TRP:O	1:A:4770:SER:OG	2.33	0.42
1:A:4796:MET:O	1:A:4800:LEU:HG	2.20	0.42
2:G:8:SER:OG	2:G:71:ARG:HB3	2.20	0.42
2:G:59:TRP:HE1	2:G:99:PHE:HB2	1.84	0.42
1:B:663:TYR:HD2	1:B:804:PRO:HB3	1.85	0.42
1:B:699:GLY:N	1:B:1647:CYS:SG	2.84	0.42
1:B:1082:THR:HG21	1:B:1107:PRO:HG3	2.02	0.42
1:B:1968:LYS:HE2	1:B:1968:LYS:HB2	1.80	0.42
1:B:2244:ARG:HG2	1:B:2248:ARG:HH12	1.84	0.42
1:B:2630:VAL:O	1:B:2633:LEU:HD22	2.20	0.42
1:B:3105:LYS:O	1:B:3108:GLU:HG2	2.19	0.42
1:B:3232:LEU:HD13	1:B:3232:LEU:HA	1.84	0.42
1:B:3453:ARG:HA	1:B:3456:GLN:NE2	2.35	0.42
1:B:3453:ARG:O	1:B:3456:GLN:HG2	2.19	0.42
1:B:3527:PRO:HA	1:B:3530:GLN:HG3	2.02	0.42
1:B:3823:LYS:C	1:B:3824:LYS:HG2	2.44	0.42
1:B:3941:ASP:OD1	1:B:3941:ASP:N	2.51	0.42
1:B:4634:GLU:OE2	1:B:4637:GLY:N	2.53	0.42
1:B:4865:LYS:HB2	1:B:4875:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4958:CYS:CB	1:B:4961:CYS:HB2	2.50	0.42
1:D:81:MET:HE2	1:D:81:MET:C	2.44	0.42
1:D:115:ARG:NE	1:D:399:GLN:HE21	2.17	0.42
1:D:645:ARG:CZ	1:D:826:ILE:HD13	2.50	0.42
1:D:663:TYR:OH	1:D:665:GLU:OE2	2.34	0.42
1:D:817:PRO:C	1:D:1028:ASP:HB3	2.45	0.42
1:D:909:ASN:O	1:D:913:LEU:N	2.42	0.42
1:D:1153:ILE:CD1	1:D:1160:ILE:HG12	2.50	0.42
1:D:1207:ASP:CG	1:D:1209:SER:HG	2.22	0.42
1:D:1265:ASP:OD2	1:D:1265:ASP:N	2.48	0.42
1:D:2233:CYS:O	1:D:2236:LEU:N	2.53	0.42
1:D:3178:THR:C	1:D:3179:LYS:HD3	2.45	0.42
1:D:3352:GLU:OE2	1:D:3352:GLU:N	2.34	0.42
1:D:3366:ARG:HH12	1:D:3370:GLY:HA3	1.85	0.42
1:D:4147:LEU:HD13	1:D:4164:LEU:HD23	2.02	0.42
1:D:4718:LYS:HD3	1:D:4718:LYS:N	2.35	0.42
1:D:4963:ILE:HD11	1:D:5026:ASP:N	2.35	0.42
1:D:5026:ASP:OD1	1:D:5027:CYS:N	2.52	0.42
1:C:159:GLU:OE2	1:C:160:GLY:N	2.48	0.42
1:C:438:ILE:H	1:C:438:ILE:HG13	1.67	0.42
1:C:1011:GLN:HB3	1:C:1019:PRO:HD2	2.01	0.42
1:C:1228:ILE:HG22	1:C:1827:ARG:NH1	2.34	0.42
1:C:1259:ARG:HH12	1:C:1593:PRO:HA	1.85	0.42
1:C:1786:LEU:HD12	1:C:1786:LEU:HA	1.92	0.42
1:C:2716:ASP:OD1	1:C:2716:ASP:N	2.53	0.42
1:C:2999:ALA:O	1:C:3003:LEU:HB2	2.20	0.42
1:C:3178:THR:C	1:C:3179:LYS:HD3	2.45	0.42
1:C:3391:GLU:HG3	1:C:3395:ARG:CZ	2.50	0.42
1:C:3667:HIS:ND1	1:C:3667:HIS:C	2.78	0.42
1:C:4147:LEU:HD13	1:C:4164:LEU:HD23	2.02	0.42
1:C:4185:GLY:O	1:C:4188:ARG:NH2	2.53	0.42
1:C:4579:PHE:O	1:C:4632:LEU:HG	2.20	0.42
1:C:4998:LYS:NZ	1:C:5002:GLU:O	2.43	0.42
1:A:39:ALA:O	1:A:64:ILE:HD11	2.20	0.41
1:A:109:LEU:H	1:A:117:TYR:HE1	1.66	0.41
1:A:117:TYR:OH	1:A:146:CYS:O	2.31	0.41
1:A:359:TYR:HB2	1:A:374:LYS:HD2	2.02	0.41
1:A:603:LEU:HD11	1:A:621:ILE:HG12	2.02	0.41
1:A:664:PHE:HB3	1:A:811:CYS:SG	2.60	0.41
1:A:683:ARG:HG2	1:A:707:VAL:O	2.20	0.41
1:A:954:LYS:HD2	1:A:954:LYS:HA	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1228:ILE:HG22	1:A:1827:ARG:NH1	2.34	0.41
1:A:1980:LEU:O	1:A:1984:PHE:HB3	2.20	0.41
1:A:2608:MET:HG2	1:A:2608:MET:H	1.74	0.41
1:A:2630:VAL:O	1:A:2633:LEU:HD22	2.20	0.41
1:A:2963:LEU:HD23	1:A:2963:LEU:HA	1.84	0.41
1:A:3634:ALA:O	1:A:3637:ARG:NH2	2.53	0.41
1:A:3702:VAL:HG13	1:A:3778:MET:SD	2.60	0.41
2:H:40:ARG:HD2	2:H:40:ARG:N	2.34	0.41
2:G:56:ILE:HD12	2:G:56:ILE:H	1.85	0.41
2:F:21:THR:HB	2:F:107:GLU:HB2	2.02	0.41
1:B:183:SER:OG	1:B:186:SER:OG	2.32	0.41
1:B:418:LEU:HA	1:B:421:PHE:CE2	2.55	0.41
1:B:793:LEU:HD23	1:B:793:LEU:HA	1.83	0.41
1:B:891:TRP:CA	1:B:902:ARG:HE	2.32	0.41
1:B:897:ARG:HG3	1:B:904:HIS:CE1	2.55	0.41
1:B:1089:TYR:HD2	1:B:1152:MET:SD	2.43	0.41
1:B:1091:GLU:HG2	1:B:1148:VAL:HG12	2.01	0.41
1:B:2224:ARG:H	1:B:2224:ARG:HG2	1.70	0.41
1:B:2349:ASN:OD1	1:B:3849:ARG:NH2	2.53	0.41
1:B:2351:ASN:HB3	1:B:2355:ARG:NH2	2.35	0.41
1:B:3392:LEU:HB3	1:B:3395:ARG:HH21	1.85	0.41
1:B:3506:GLN:H	1:B:3506:GLN:CD	2.21	0.41
1:B:3543:LYS:N	1:B:3543:LYS:HD3	2.35	0.41
1:B:3707:ARG:O	1:B:3711:THR:OG1	2.27	0.41
1:B:4183:ILE:HD12	1:B:5021:PHE:O	2.20	0.41
1:B:4680:LYS:O	1:B:4685:GLY:N	2.31	0.41
1:B:4876:CYS:HB2	1:B:4882:CYS:HB2	1.37	0.41
1:D:315:CYS:SG	1:D:349:GLN:HB3	2.60	0.41
1:D:359:TYR:HB2	1:D:374:LYS:HD2	2.02	0.41
1:D:493:ARG:O	1:D:496:VAL:HG22	2.20	0.41
1:D:897:ARG:HG3	1:D:904:HIS:CE1	2.55	0.41
1:D:953:THR:O	1:D:968:ALA:HB1	2.20	0.41
1:D:1263:THR:N	1:D:1266:THR:O	2.33	0.41
1:D:1953:HIS:O	1:D:1957:SER:OG	2.36	0.41
1:D:2349:ASN:OD1	1:D:3849:ARG:NH2	2.53	0.41
1:D:2630:VAL:O	1:D:2633:LEU:HD22	2.20	0.41
1:D:2716:ASP:N	1:D:2716:ASP:OD1	2.53	0.41
1:D:3035:GLU:HG3	1:D:3038:MET:HE3	2.01	0.41
1:D:3158:LEU:HD23	1:D:3158:LEU:H	1.85	0.41
1:D:3403:ARG:HA	1:D:3458:PHE:CZ	2.55	0.41
1:D:3442:PHE:CE2	1:D:3605:HIS:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3543:LYS:HD3	1:D:3543:LYS:N	2.35	0.41
1:D:4796:MET:O	1:D:4800:LEU:HG	2.20	0.41
1:D:4963:ILE:HD13	1:D:5030:LYS:HZ1	1.82	0.41
1:C:359:TYR:HB2	1:C:374:LYS:HD2	2.02	0.41
1:C:887:ILE:HG12	1:C:959:TYR:CG	2.55	0.41
1:C:1091:GLU:HG2	1:C:1148:VAL:HG12	2.01	0.41
1:C:1100:MET:HB3	1:C:1193:SER:O	2.20	0.41
1:C:1771:LEU:O	1:C:1772:ARG:HD3	2.19	0.41
1:C:2116:LEU:O	1:C:2120:MET:HG2	2.19	0.41
1:C:2199:ARG:HA	1:C:2204:HIS:CE1	2.54	0.41
1:C:2871:LEU:HA	1:C:2874:MET:HE2	2.02	0.41
1:C:2889:LYS:HA	1:C:2892:GLN:HG2	2.02	0.41
1:C:3290:GLU:OE1	1:C:3308:THR:HA	2.20	0.41
1:C:3431:ALA:HA	1:C:3434:LEU:HD12	2.01	0.41
1:C:3453:ARG:HA	1:C:3456:GLN:NE2	2.35	0.41
1:C:3560:GLN:OE1	1:C:3560:GLN:N	2.30	0.41
1:C:3836:MET:HE1	1:C:3837:GLN:HE21	1.85	0.41
1:C:3946:GLN:OE1	1:C:3949:ARG:NE	2.49	0.41
1:A:41:GLY:O	1:A:45:ARG:NH2	2.47	0.41
1:A:276:TRP:HZ3	1:A:346:CYS:SG	2.43	0.41
1:A:477:LEU:O	1:A:480:GLU:HG3	2.20	0.41
1:A:957:LYS:HD3	1:A:957:LYS:HA	1.80	0.41
1:A:960:MET:H	1:A:960:MET:CE	2.33	0.41
1:A:1160:ILE:HG13	1:A:1182:ILE:HD13	2.01	0.41
1:A:1552:VAL:HB	1:A:1564:PHE:CZ	2.56	0.41
1:A:1968:LYS:HE2	1:A:1968:LYS:HB2	1.80	0.41
1:A:2090:LYS:HA	1:A:2091:PRO:HD3	1.96	0.41
1:A:2716:ASP:OD1	1:A:2716:ASP:N	2.53	0.41
1:A:3005:LEU:O	1:A:3008:GLN:NE2	2.54	0.41
1:A:3312:LEU:O	1:A:3345:ILE:HD11	2.21	0.41
1:A:3410:PRO:O	1:A:3414:ARG:NH1	2.54	0.41
1:A:4028:LEU:HG	1:A:4146:LEU:HD13	2.03	0.41
1:A:4569:LEU:O	1:A:4573:ILE:HD12	2.19	0.41
2:F:29:MET:HA	2:F:35:LYS:HA	2.02	0.41
1:B:115:ARG:HE	1:B:399:GLN:HE21	1.66	0.41
1:B:359:TYR:HB2	1:B:374:LYS:HD2	2.02	0.41
1:B:645:ARG:CZ	1:B:826:ILE:HD13	2.50	0.41
1:B:840:VAL:HG13	1:B:1199:VAL:HG22	2.02	0.41
1:B:887:ILE:HG12	1:B:959:TYR:CG	2.55	0.41
1:B:1021:LEU:O	1:B:1021:LEU:HD23	2.20	0.41
1:B:1771:LEU:O	1:B:1772:ARG:HD3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2014:ASP:OD1	1:B:2014:ASP:N	2.53	0.41
1:B:2199:ARG:HA	1:B:2204:HIS:HE1	1.86	0.41
1:B:2643:LEU:HD12	1:B:2644:LEU:N	2.34	0.41
1:B:3836:MET:HE1	1:B:3837:GLN:HE21	1.85	0.41
1:B:4041:ALA:O	1:B:4045:VAL:HG12	2.21	0.41
1:B:4866:SER:OG	1:B:4868:ASP:O	2.33	0.41
1:B:4943:LEU:O	1:B:4947:GLN:NE2	2.34	0.41
1:D:276:TRP:HZ3	1:D:346:CYS:SG	2.43	0.41
1:D:477:LEU:O	1:D:480:GLU:HG3	2.21	0.41
1:D:1160:ILE:HG13	1:D:1182:ILE:HD13	2.01	0.41
1:D:1786:LEU:HD12	1:D:1786:LEU:HA	1.91	0.41
1:D:1848:LEU:HD23	1:D:1848:LEU:HA	1.88	0.41
1:D:2377:LEU:HB2	1:D:2465:ASP:OD2	2.19	0.41
1:D:3112:LEU:HD11	1:D:3182:TYR:CE2	2.55	0.41
1:D:3354:LEU:HB2	1:D:3415:TYR:CE2	2.54	0.41
1:D:3412:LEU:O	1:D:3416:VAL:HG22	2.20	0.41
1:D:3590:GLU:CD	1:D:3590:GLU:N	2.75	0.41
1:D:3629:ARG:HE	1:D:3632:VAL:HG21	1.85	0.41
1:D:3812:VAL:O	1:D:3816:MET:HE2	2.20	0.41
1:C:39:ALA:O	1:C:64:ILE:HD11	2.20	0.41
1:C:125:ARG:HD2	1:C:125:ARG:O	2.20	0.41
1:C:332:GLU:OE1	1:C:332:GLU:N	2.52	0.41
1:C:462:GLU:OE2	1:C:462:GLU:N	2.38	0.41
1:C:484:LEU:O	1:C:488:LEU:HG	2.20	0.41
1:C:596:ASN:ND2	1:C:599:VAL:HG23	2.34	0.41
1:C:1089:TYR:HD2	1:C:1152:MET:SD	2.43	0.41
1:C:2155:LEU:HD12	1:C:2155:LEU:HA	1.76	0.41
1:C:2349:ASN:OD1	1:C:3849:ARG:NH2	2.53	0.41
1:C:2351:ASN:HB3	1:C:2355:ARG:NH2	2.35	0.41
1:C:2630:VAL:O	1:C:2633:LEU:HD22	2.20	0.41
1:C:2895:GLU:HG2	1:C:2895:GLU:H	1.70	0.41
1:C:3035:GLU:HG3	1:C:3038:MET:HE3	2.01	0.41
1:C:3105:LYS:O	1:C:3108:GLU:HG2	2.19	0.41
1:C:3232:LEU:HD13	1:C:3232:LEU:HA	1.84	0.41
1:C:4147:LEU:HA	1:C:4147:LEU:HD23	1.81	0.41
1:C:4204:GLN:O	1:C:4207:MET:HG2	2.19	0.41
1:A:305:CYS:SG	1:A:306:LYS:N	2.93	0.41
1:A:575:LEU:HA	1:A:575:LEU:HD12	1.76	0.41
1:A:1006:SER:C	1:A:1021:LEU:HD22	2.45	0.41
1:A:1079:LYS:NZ	1:A:1108:GLU:HA	2.36	0.41
1:A:1953:HIS:O	1:A:1957:SER:OG	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2325:PRO:HG3	1:A:2422:ILE:HG22	2.02	0.41
1:A:2332:LEU:HD23	1:A:2332:LEU:HA	1.95	0.41
1:A:2880:GLU:OE2	1:A:2884:ASN:ND2	2.50	0.41
1:A:3290:GLU:OE1	1:A:3308:THR:HA	2.20	0.41
1:A:3630:ARG:HE	1:A:3630:ARG:HB2	1.74	0.41
1:A:4095:LYS:HA	1:A:4098:ASP:OD2	2.19	0.41
1:A:4649:LEU:O	1:A:4652:LEU:HD12	2.21	0.41
2:H:79:ASP:OD2	2:H:79:ASP:C	2.62	0.41
2:G:67:SER:HB3	2:G:70:GLN:OE1	2.20	0.41
2:F:52:LYS:HB3	2:F:54:GLU:OE1	2.20	0.41
1:B:39:ALA:O	1:B:64:ILE:HD11	2.20	0.41
1:B:308:HIS:CD2	1:B:310:LYS:HB3	2.54	0.41
1:B:545:ASP:N	1:B:545:ASP:OD1	2.50	0.41
1:B:688:LEU:HD23	1:B:712:TYR:HD1	1.84	0.41
1:B:957:LYS:HA	1:B:957:LYS:HD3	1.81	0.41
1:B:1006:SER:C	1:B:1021:LEU:HD22	2.45	0.41
1:B:1252:HIS:CE1	1:B:1255:TYR:H	2.39	0.41
1:B:2010:LEU:HD11	1:B:3653:PHE:CE1	2.56	0.41
1:B:2012:PHE:HD1	1:B:3661:TRP:HZ2	1.68	0.41
1:B:3178:THR:C	1:B:3179:LYS:HD3	2.45	0.41
1:B:3391:GLU:HG3	1:B:3395:ARG:CZ	2.50	0.41
1:B:4563:ARG:HD2	1:B:4563:ARG:HA	1.82	0.41
1:B:4664:LEU:HD12	1:B:4664:LEU:HA	1.77	0.41
1:B:4963:ILE:HD11	1:B:5026:ASP:N	2.35	0.41
1:D:214:VAL:CG2	1:D:339:ILE:HB	2.50	0.41
1:D:462:GLU:OE2	1:D:462:GLU:N	2.38	0.41
1:D:683:ARG:HG2	1:D:707:VAL:O	2.20	0.41
1:D:840:VAL:HG13	1:D:1199:VAL:HG22	2.02	0.41
1:D:1585:LYS:O	1:D:1585:LYS:HD3	2.20	0.41
1:D:1716:ILE:CG2	1:D:1847:THR:HG21	2.50	0.41
1:D:1749:PRO:HA	1:D:1750:PRO:HD3	1.96	0.41
1:D:2116:LEU:O	1:D:2120:MET:HG2	2.19	0.41
1:D:2861:ASP:HB3	1:D:2928:LYS:HG3	2.02	0.41
1:D:2904:LEU:O	1:D:2906:VAL:HG22	2.21	0.41
1:D:2967:MET:O	1:D:2971:GLN:HG2	2.19	0.41
1:D:3005:LEU:O	1:D:3008:GLN:NE2	2.54	0.41
1:D:3202:PRO:C	1:D:3284:TRP:HH2	2.28	0.41
1:D:3269:VAL:HA	1:D:3273:THR:OG1	2.20	0.41
1:D:3392:LEU:HB3	1:D:3395:ARG:HH21	1.85	0.41
1:D:3566:SER:N	1:D:3569:LEU:HD12	2.35	0.41
1:D:3634:ALA:O	1:D:3637:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:LEU:HD12	1:C:37:LEU:HA	1.80	0.41
1:C:115:ARG:NE	1:C:399:GLN:HE21	2.17	0.41
1:C:790:ARG:HA	1:C:1627:ALA:HA	2.02	0.41
1:C:999:ASP:O	1:C:1003:GLN:HG3	2.19	0.41
1:C:1526:LEU:HD12	1:C:1527:MET:H	1.86	0.41
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.20	0.41
1:C:2423:MET:HE3	1:C:2498:HIS:HE1	1.80	0.41
1:C:2481:LYS:HZ2	1:C:2486:VAL:HG22	1.86	0.41
1:C:2761:TYR:HA	1:C:2764:GLU:HB2	2.02	0.41
1:C:3005:LEU:O	1:C:3008:GLN:NE2	2.54	0.41
1:C:3285:TRP:HA	1:C:3307:VAL:HB	2.02	0.41
1:C:3535:LEU:O	1:C:3538:THR:OG1	2.30	0.41
1:C:3667:HIS:C	1:C:3667:HIS:HD1	2.27	0.41
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.20	0.41
1:C:4041:ALA:O	1:C:4045:VAL:HG12	2.21	0.41
1:C:4067:LYS:HE3	1:C:4067:LYS:HB2	1.75	0.41
1:C:4183:ILE:HD12	1:C:5021:PHE:O	2.21	0.41
1:C:4649:LEU:O	1:C:4652:LEU:HD12	2.21	0.41
1:C:4827:LEU:HD12	1:C:4828:SER:N	2.36	0.41
1:A:16:THR:HA	1:A:69:LEU:CD1	2.50	0.41
1:A:110:ARG:HE	1:A:115:ARG:C	2.27	0.41
1:A:241:GLN:HB2	1:A:243:ARG:HE	1.86	0.41
1:A:308:HIS:O	1:A:308:HIS:CG	2.73	0.41
1:A:315:CYS:SG	1:A:349:GLN:HB3	2.60	0.41
1:A:484:LEU:O	1:A:488:LEU:HG	2.20	0.41
1:A:790:ARG:HA	1:A:1627:ALA:HA	2.02	0.41
1:A:887:ILE:HG12	1:A:959:TYR:CG	2.55	0.41
1:A:1012:ASP:CG	1:A:1014:PRO:HD2	2.45	0.41
1:A:1089:TYR:HD2	1:A:1152:MET:SD	2.43	0.41
1:A:1130:GLN:HG2	1:A:1132:TRP:CD1	2.55	0.41
1:A:1252:HIS:CE1	1:A:1255:TYR:H	2.39	0.41
1:A:2233:CYS:O	1:A:2236:LEU:N	2.53	0.41
1:A:2351:ASN:HB3	1:A:2355:ARG:NH2	2.35	0.41
1:A:2479:LEU:H	1:A:2479:LEU:HD22	1.85	0.41
1:A:2761:TYR:HA	1:A:2764:GLU:HB2	2.02	0.41
1:A:2889:LYS:HA	1:A:2892:GLN:HG2	2.02	0.41
1:A:3158:LEU:HD23	1:A:3158:LEU:H	1.85	0.41
1:A:3590:GLU:CD	1:A:3590:GLU:N	2.75	0.41
1:A:4101:LYS:HB2	1:B:4730:ASP:OD1	2.21	0.41
1:A:4126:GLU:H	1:A:4126:GLU:CD	2.29	0.41
1:A:4958:CYS:CB	1:A:4961:CYS:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5026:ASP:OD1	1:A:5027:CYS:N	2.52	0.41
2:F:5:GLU:HB3	2:F:73:LYS:HE3	2.02	0.41
1:B:477:LEU:O	1:B:480:GLU:HG3	2.20	0.41
1:B:3082:LYS:HE2	1:B:3082:LYS:HB2	1.80	0.41
1:B:3403:ARG:HA	1:B:3458:PHE:CZ	2.55	0.41
1:B:3410:PRO:O	1:B:3414:ARG:NH1	2.54	0.41
1:B:3454:GLU:HG3	1:B:3454:GLU:H	1.72	0.41
1:B:3478:MET:CE	1:C:1141:ARG:NH1	2.81	0.41
1:B:3622:LYS:HB2	1:B:3622:LYS:HE2	1.71	0.41
1:B:3634:ALA:O	1:B:3637:ARG:NH2	2.53	0.41
1:B:4006:ASP:OD2	1:B:4008:SER:OG	2.37	0.41
1:B:4184:MET:HE3	1:B:5021:PHE:HA	2.01	0.41
1:D:19:GLU:OE1	1:D:206:CYS:HB3	2.20	0.41
1:D:196:MET:SD	1:D:196:MET:N	2.88	0.41
1:D:664:PHE:HB3	1:D:811:CYS:SG	2.60	0.41
1:D:894:GLY:HA3	1:D:903:LEU:HD23	2.03	0.41
1:D:1089:TYR:HD2	1:D:1152:MET:SD	2.43	0.41
1:D:1130:GLN:HG2	1:D:1132:TRP:CD1	2.55	0.41
1:D:1229:ASN:ND2	1:D:1827:ARG:HG3	2.35	0.41
1:D:2224:ARG:HB2	1:D:2225:PHE:CD2	2.54	0.41
1:D:3290:GLU:OE1	1:D:3308:THR:HA	2.20	0.41
1:D:3465:ASN:C	1:D:3467:MET:H	2.27	0.41
1:D:4028:LEU:HG	1:D:4146:LEU:HD13	2.03	0.41
1:D:4827:LEU:HD12	1:D:4828:SER:N	2.36	0.41
1:C:407:THR:HG23	1:C:411:TYR:CE2	2.56	0.41
1:C:840:VAL:HG13	1:C:1199:VAL:HG22	2.02	0.41
1:C:1012:ASP:CG	1:C:1014:PRO:HD2	2.45	0.41
1:C:1252:HIS:CE1	1:C:1255:TYR:H	2.39	0.41
1:C:1954:ARG:NH1	1:C:2042:CYS:HA	2.36	0.41
1:C:1980:LEU:O	1:C:1984:PHE:HB3	2.20	0.41
1:C:2010:LEU:HD11	1:C:3653:PHE:CE1	2.56	0.41
1:C:2527:LEU:O	1:C:2531:ARG:HG2	2.20	0.41
1:C:2758:PHE:HB3	1:C:2809:ILE:HG21	2.01	0.41
1:C:3124:GLY:O	1:C:3127:GLN:HG3	2.20	0.41
1:C:3204:ALA:HB2	1:C:3284:TRP:CD2	2.55	0.41
1:C:3589:PRO:O	1:C:3593:VAL:HG13	2.20	0.41
1:C:4720:VAL:O	1:C:4724:VAL:HG23	2.20	0.41
1:C:4876:CYS:HB2	1:C:4882:CYS:HB2	1.37	0.41
1:A:172:VAL:HG12	1:A:178:ARG:C	2.45	0.41
1:A:207:SER:OG	1:A:208:CYS:N	2.53	0.41
1:A:603:LEU:HG	1:A:1669:LEU:CD1	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1021:LEU:O	1:A:1021:LEU:HD23	2.20	0.41
1:A:1229:ASN:ND2	1:A:1827:ARG:HG3	2.35	0.41
1:A:2377:LEU:HB2	1:A:2465:ASP:OD2	2.19	0.41
1:A:2765:LYS:HZ1	1:A:2856:ASN:N	2.19	0.41
1:A:2786:LYS:HE3	1:A:2786:LYS:HB3	1.86	0.41
1:A:3112:LEU:HD11	1:A:3182:TYR:CE2	2.55	0.41
1:A:3183:VAL:O	1:A:3187:ARG:HG3	2.21	0.41
1:A:3442:PHE:CE2	1:A:3605:HIS:HB3	2.55	0.41
1:A:3543:LYS:HD3	1:A:3543:LYS:N	2.35	0.41
1:A:3815:LYS:HB2	1:A:3816:MET:CE	2.50	0.41
1:A:4184:MET:HE3	1:A:5021:PHE:HA	2.01	0.41
1:B:276:TRP:HZ3	1:B:346:CYS:SG	2.43	0.41
1:B:1079:LYS:NZ	1:B:1108:GLU:HA	2.36	0.41
1:B:1265:ASP:OD2	1:B:1265:ASP:N	2.48	0.41
1:B:1568:LYS:CD	1:B:1574:PRO:HA	2.50	0.41
1:B:2644:LEU:HD23	1:B:2647:HIS:CE1	2.56	0.41
1:B:2761:TYR:HA	1:B:2764:GLU:HB2	2.02	0.41
1:B:3005:LEU:O	1:B:3008:GLN:NE2	2.54	0.41
1:B:3227:ARG:NH2	1:B:3231:GLY:O	2.54	0.41
1:B:3269:VAL:HA	1:B:3273:THR:OG1	2.20	0.41
1:B:3689:GLU:O	1:B:3693:LYS:N	2.52	0.41
1:B:3969:ILE:CD1	1:B:3977:GLN:HG2	2.49	0.41
1:B:4165:GLU:HA	1:B:4168:GLU:HG2	2.02	0.41
1:B:4184:MET:SD	1:B:4188:ARG:NH2	2.77	0.41
1:B:4835:LYS:O	1:B:4839:MET:SD	2.78	0.41
1:D:308:HIS:CD2	1:D:311:ALA:H	2.37	0.41
1:D:1011:GLN:HB3	1:D:1019:PRO:HD2	2.00	0.41
1:D:1012:ASP:CG	1:D:1014:PRO:HD2	2.45	0.41
1:D:1100:MET:HB3	1:D:1193:SER:O	2.20	0.41
1:D:1220:GLN:HA	1:C:3522:LEU:HD22	2.02	0.41
1:D:1259:ARG:HH12	1:D:1593:PRO:HA	1.85	0.41
1:D:1586:ASN:HD21	1:D:1588:ALA:HB3	1.85	0.41
1:D:1968:LYS:HE2	1:D:1968:LYS:HB2	1.80	0.41
1:D:2765:LYS:HZ1	1:D:2856:ASN:N	2.18	0.41
1:D:2770:LYS:HB3	1:D:2786:LYS:HZ2	1.84	0.41
1:D:3056:LEU:H	1:D:3056:LEU:HD12	1.86	0.41
1:D:3204:ALA:HB2	1:D:3284:TRP:CD2	2.55	0.41
1:D:3312:LEU:O	1:D:3345:ILE:HD11	2.21	0.41
1:D:3514:LEU:HA	1:D:3517:MET:HG2	2.02	0.41
1:D:3702:VAL:HG13	1:D:3778:MET:SD	2.60	0.41
1:D:4865:LYS:HB2	1:D:4875:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:418:LEU:HA	1:C:421:PHE:CZ	2.56	0.41
1:C:795:GLY:HA3	1:C:812:HIS:CE1	2.56	0.41
1:C:881:LEU:HA	1:C:884:LEU:HD13	2.03	0.41
1:C:981:GLN:O	1:C:985:VAL:HG13	2.19	0.41
1:C:1082:THR:HG21	1:C:1107:PRO:HG3	2.02	0.41
1:C:1585:LYS:O	1:C:1585:LYS:HD3	2.20	0.41
1:C:1954:ARG:HH12	1:C:2042:CYS:HA	1.86	0.41
1:C:2233:CYS:O	1:C:2236:LEU:N	2.53	0.41
1:C:2325:PRO:HG3	1:C:2422:ILE:HG22	2.02	0.41
1:C:3543:LYS:HD3	1:C:3543:LYS:N	2.35	0.41
1:C:3689:GLU:O	1:C:3693:LYS:N	2.52	0.41
1:C:4028:LEU:HG	1:C:4146:LEU:HD13	2.03	0.41
1:C:4835:LYS:O	1:C:4839:MET:SD	2.78	0.41
1:A:57:ASN:OD1	1:A:57:ASN:N	2.54	0.41
1:A:407:THR:HG23	1:A:411:TYR:CE2	2.56	0.41
1:A:817:PRO:C	1:A:1028:ASP:HB3	2.45	0.41
1:A:1954:ARG:NH1	1:A:2042:CYS:HA	2.36	0.41
1:A:3178:THR:C	1:A:3179:LYS:HD3	2.45	0.41
1:A:3403:ARG:HA	1:A:3458:PHE:CZ	2.55	0.41
1:A:3465:ASN:C	1:A:3467:MET:H	2.27	0.41
1:A:3750:GLU:CD	1:A:3750:GLU:N	2.79	0.41
1:A:4041:ALA:O	1:A:4045:VAL:HG12	2.21	0.41
1:A:4582:VAL:HG13	1:B:4856:PHE:CZ	2.55	0.41
1:A:4799:SER:HA	1:A:4812:HIS:HE1	1.86	0.41
2:H:71:ARG:HA	2:H:102:GLU:OE2	2.21	0.41
2:G:42:ARG:HB3	2:G:44:LYS:HZ1	1.86	0.41
2:G:105:LYS:HA	2:G:105:LYS:HD2	1.69	0.41
1:B:207:SER:OG	1:B:208:CYS:N	2.53	0.41
1:B:928:THR:HG22	1:B:988:LEU:HD11	2.02	0.41
1:B:953:THR:O	1:B:968:ALA:HB1	2.20	0.41
1:B:1259:ARG:HH12	1:B:1593:PRO:HA	1.85	0.41
1:B:1552:VAL:HB	1:B:1564:PHE:CZ	2.56	0.41
1:B:1954:ARG:NH1	1:B:2042:CYS:HA	2.36	0.41
1:B:1980:LEU:O	1:B:1984:PHE:HB3	2.20	0.41
1:B:2368:LEU:N	1:B:2374:SER:O	2.34	0.41
1:B:2441:HIS:CA	1:B:2444:GLN:HE21	2.30	0.41
1:B:2527:LEU:O	1:B:2531:ARG:HG2	2.20	0.41
1:B:3112:LEU:HD11	1:B:3182:TYR:CE2	2.55	0.41
1:B:3124:GLY:O	1:B:3127:GLN:HG3	2.21	0.41
1:B:3812:VAL:O	1:B:3816:MET:HE2	2.20	0.41
1:B:4796:MET:O	1:B:4800:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:LEU:HD12	1:D:180:LEU:HA	1.89	0.41
1:D:407:THR:HG23	1:D:411:TYR:CE2	2.56	0.41
1:D:645:ARG:HG3	1:D:646:PRO:O	2.20	0.41
1:D:790:ARG:HA	1:D:1627:ALA:HA	2.02	0.41
1:D:1079:LYS:NZ	1:D:1108:GLU:HA	2.36	0.41
1:D:1153:ILE:HD12	1:D:1153:ILE:HA	1.82	0.41
1:D:1427:ILE:HD12	1:D:1427:ILE:HA	1.89	0.41
1:D:1612:PHE:O	1:D:1614:GLN:NE2	2.44	0.41
1:D:1973:GLN:NE2	1:D:3642:TYR:CD2	2.89	0.41
1:D:3750:GLU:CD	1:D:3750:GLU:N	2.79	0.41
1:D:4031:LEU:HD23	1:D:4031:LEU:HA	1.88	0.41
1:D:4649:LEU:O	1:D:4652:LEU:HD12	2.21	0.41
1:C:19:GLU:OE1	1:C:206:CYS:HB3	2.20	0.41
1:C:196:MET:SD	1:C:196:MET:N	2.88	0.41
1:C:645:ARG:CZ	1:C:826:ILE:HD13	2.50	0.41
1:C:663:TYR:OH	1:C:665:GLU:OE2	2.34	0.41
1:C:894:GLY:HA3	1:C:903:LEU:HD23	2.03	0.41
1:C:953:THR:O	1:C:968:ALA:HB1	2.20	0.41
1:C:1023:PRO:HB3	1:C:1025:ARG:NH1	2.36	0.41
1:C:2686:LEU:HD22	1:C:2997:PHE:CD1	2.55	0.41
1:C:3596:VAL:O	1:C:3600:SER:OG	2.22	0.41
1:C:4003:LEU:HD21	1:C:4012:LEU:HD23	2.02	0.41
1:A:19:GLU:OE1	1:A:206:CYS:HB3	2.20	0.41
1:A:78:LEU:HA	1:A:81:MET:SD	2.61	0.41
1:A:645:ARG:HG3	1:A:646:PRO:O	2.20	0.41
1:A:3171:SER:O	1:A:3175:LEU:HG	2.20	0.41
1:A:3366:ARG:HH12	1:A:3370:GLY:HA3	1.85	0.41
1:A:3391:GLU:HG3	1:A:3395:ARG:CZ	2.50	0.41
1:A:3822:ASP:C	1:A:3824:LYS:HZ1	2.24	0.41
1:A:4664:LEU:HA	1:A:4664:LEU:HD12	1.77	0.41
1:A:4865:LYS:HB2	1:A:4875:LYS:NZ	2.35	0.41
2:F:73:LYS:HA	2:F:100:ASP:HA	2.03	0.41
2:F:82:TYR:OH	1:B:1784:ALA:O	2.35	0.41
1:B:180:LEU:O	1:B:198:THR:HB	2.21	0.41
1:B:881:LEU:HA	1:B:884:LEU:HD13	2.03	0.41
1:B:1294:PRO:HB3	1:B:1549:PHE:CZ	2.56	0.41
1:B:2155:LEU:HD22	1:B:2188:ASN:OD1	2.20	0.41
1:B:2233:CYS:O	1:B:2236:LEU:N	2.53	0.41
1:B:2479:LEU:HD22	1:B:2479:LEU:H	1.85	0.41
1:B:2963:LEU:HD23	1:B:2963:LEU:HA	1.84	0.41
1:B:3359:ILE:HG23	1:B:3434:LEU:HD21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3540:TYR:CZ	1:B:3601:ALA:HB2	2.56	0.41
1:B:3568:SER:HA	1:B:3571:TRP:NE1	2.36	0.41
1:B:3652:MET:HG2	1:B:3652:MET:H	1.60	0.41
1:B:4686:LEU:O	1:B:4690:GLU:N	2.54	0.41
1:D:16:THR:HA	1:D:69:LEU:CD1	2.50	0.41
1:D:41:GLY:O	1:D:45:ARG:NH2	2.47	0.41
1:D:78:LEU:HA	1:D:81:MET:SD	2.61	0.41
1:D:472:ARG:HA	1:D:472:ARG:HH11	1.85	0.41
1:D:891:TRP:CA	1:D:902:ARG:HE	2.32	0.41
1:D:919:ASN:OD1	1:D:922:LEU:HD22	2.21	0.41
1:D:960:MET:H	1:D:960:MET:CE	2.33	0.41
1:D:1270:LEU:CD1	1:D:1564:PHE:HB2	2.51	0.41
1:D:1526:LEU:HD12	1:D:1527:MET:H	1.86	0.41
1:D:2012:PHE:HD1	1:D:3661:TRP:HZ2	1.68	0.41
1:D:2095:GLN:OE1	1:D:2095:GLN:N	2.51	0.41
1:D:2797:PHE:CE1	1:D:2802:LYS:HG2	2.56	0.41
1:D:2977:LEU:HA	1:D:2980:VAL:HG22	2.03	0.41
1:D:3023:LYS:HE3	1:D:3025:LEU:HD23	2.03	0.41
1:D:3183:VAL:O	1:D:3187:ARG:HG3	2.21	0.41
1:D:3667:HIS:C	1:D:3667:HIS:ND1	2.78	0.41
1:D:3927:GLN:OE1	1:D:3988:ALA:HA	2.21	0.41
1:D:4247:ILE:O	1:D:4251:ILE:HG23	2.19	0.41
1:D:4835:LYS:O	1:D:4839:MET:SD	2.78	0.41
1:C:78:LEU:HA	1:C:81:MET:SD	2.61	0.41
1:C:426:ARG:NH1	1:C:426:ARG:HB3	2.36	0.41
1:C:935:LEU:HD23	1:C:1056:PRO:HG3	2.03	0.41
1:C:996:TRP:O	1:C:996:TRP:HD1	2.04	0.41
1:C:2471:SER:HA	1:C:2524:VAL:O	2.21	0.41
1:C:2694:GLU:HG2	1:C:2697:ARG:NE	2.33	0.41
1:C:2861:ASP:HB3	1:C:2928:LYS:HG3	2.02	0.41
1:C:3112:LEU:HD11	1:C:3182:TYR:CE2	2.55	0.41
1:C:3412:LEU:O	1:C:3416:VAL:HG22	2.20	0.41
1:C:3499:ARG:HE	1:C:3499:ARG:HB2	1.58	0.41
1:C:3566:SER:N	1:C:3569:LEU:HD12	2.35	0.41
1:C:3634:ALA:O	1:C:3637:ARG:NH2	2.53	0.41
1:C:3901:ASN:OD1	1:C:3904:ARG:NH2	2.47	0.41
1:C:4069:LYS:HD2	1:C:4069:LYS:HA	1.78	0.41
1:C:5026:ASP:OD1	1:C:5027:CYS:N	2.52	0.41
1:A:953:THR:O	1:A:968:ALA:HB1	2.20	0.41
1:A:1141:ARG:NH2	1:D:3478:MET:CE	2.75	0.41
1:A:1293:LEU:HB2	1:A:1579:MET:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2199:ARG:HA	1:A:2204:HIS:HE1	1.86	0.41
1:A:2871:LEU:HA	1:A:2874:MET:HE2	2.02	0.41
1:A:3359:ILE:HG23	1:A:3434:LEU:HD21	2.01	0.41
1:A:3392:LEU:HB3	1:A:3395:ARG:HH21	1.85	0.41
1:A:3412:LEU:O	1:A:3416:VAL:HG22	2.20	0.41
1:A:3527:PRO:HA	1:A:3530:GLN:HG3	2.02	0.41
1:A:3568:SER:HA	1:A:3571:TRP:NE1	2.36	0.41
1:A:3667:HIS:C	1:A:3667:HIS:ND1	2.78	0.41
1:A:3812:VAL:O	1:A:3816:MET:HE2	2.20	0.41
1:A:4023:MET:O	1:A:4027:LEU:HG	2.21	0.41
2:E:1:GLY:HA2	2:E:77:SER:HB3	2.02	0.41
2:E:82:TYR:HB3	2:E:86:GLY:HA2	2.03	0.41
2:G:53:GLN:HE21	2:G:57:ARG:HB2	1.85	0.41
1:B:19:GLU:OE1	1:B:206:CYS:HB3	2.20	0.41
1:B:20:VAL:HG13	1:B:202:MET:SD	2.61	0.41
1:B:315:CYS:SG	1:B:349:GLN:HB3	2.60	0.41
1:B:426:ARG:NH1	1:B:426:ARG:HB3	2.36	0.41
1:B:664:PHE:HB3	1:B:811:CYS:SG	2.60	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HD23	2.03	0.41
1:B:1023:PRO:HB3	1:B:1025:ARG:NH1	2.36	0.41
1:B:1131:ARG:NH1	1:B:1139:PHE:HB2	2.32	0.41
1:B:1585:LYS:HD3	1:B:1585:LYS:O	2.20	0.41
1:B:1640:HIS:NE2	1:B:1642:PRO:HA	2.36	0.41
1:B:2099:SER:HA	1:B:2124:LEU:HD12	2.03	0.41
1:B:2758:PHE:HB3	1:B:2809:ILE:HG21	2.02	0.41
1:B:3442:PHE:CE2	1:B:3605:HIS:HB3	2.55	0.41
1:B:3504:SER:N	1:B:3507:THR:OG1	2.28	0.41
1:D:39:ALA:O	1:D:64:ILE:HD11	2.20	0.41
1:D:241:GLN:HB2	1:D:243:ARG:HE	1.86	0.41
1:D:305:CYS:SG	1:D:306:LYS:N	2.93	0.41
1:D:717:ASP:HB2	1:D:722:TRP:HD1	1.84	0.41
1:D:1568:LYS:CD	1:D:1574:PRO:HA	2.50	0.41
1:D:1568:LYS:HG2	1:D:1589:PRO:HG3	2.03	0.41
1:D:2014:ASP:OD1	1:D:2014:ASP:N	2.53	0.41
1:D:2441:HIS:CA	1:D:2444:GLN:HE21	2.30	0.41
1:D:2530:MET:CE	1:D:2531:ARG:HD2	2.51	0.41
1:D:2608:MET:O	1:D:2612[B]:ARG:HG3	2.21	0.41
1:D:3285:TRP:HA	1:D:3307:VAL:HB	2.02	0.41
1:D:4023:MET:O	1:D:4027:LEU:HG	2.21	0.41
1:D:4041:ALA:O	1:D:4045:VAL:HG12	2.21	0.41
1:D:4165:GLU:HA	1:D:4168:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:296:ASP:OD1	1:C:296:ASP:N	2.47	0.41
1:C:315:CYS:SG	1:C:349:GLN:HB3	2.60	0.41
1:C:683:ARG:HG2	1:C:707:VAL:O	2.20	0.41
1:C:710:ASP:OD1	1:C:713:SER:OG	2.32	0.41
1:C:919:ASN:OD1	1:C:922:LEU:HD22	2.21	0.41
1:C:1160:ILE:HG13	1:C:1182:ILE:HD13	2.01	0.41
1:C:1481:GLY:O	1:C:1482:ASN:C	2.63	0.41
1:C:1568:LYS:CD	1:C:1574:PRO:HA	2.50	0.41
1:C:1747:LEU:HD23	1:C:1747:LEU:HA	1.90	0.41
1:C:1973:GLN:NE2	1:C:3642:TYR:CD2	2.89	0.41
1:C:2006:ILE:O	1:C:2010:LEU:HD23	2.20	0.41
1:C:2313:LEU:HG	1:C:2318:TYR:HB3	2.03	0.41
1:C:2763:HIS:CD2	1:C:2790:MET:HE2	2.56	0.41
1:C:2785:LEU:HD23	1:C:2785:LEU:HA	1.94	0.41
1:C:2952:GLU:HG3	1:C:2957:PHE:CD1	2.56	0.41
1:C:3187:ARG:HH21	1:C:3263:TYR:HH	1.68	0.41
1:C:3227:ARG:NH2	1:C:3231:GLY:O	2.54	0.41
1:C:3366:ARG:HH12	1:C:3370:GLY:HA3	1.85	0.41
1:C:3392:LEU:HB3	1:C:3395:ARG:HH21	1.85	0.41
1:C:3403:ARG:HA	1:C:3458:PHE:CZ	2.55	0.41
1:C:3442:PHE:CD1	1:C:3514:LEU:HD11	2.56	0.41
1:C:4072:VAL:HG11	1:C:4125:PHE:HB2	2.03	0.41
1:C:4796:MET:O	1:C:4800:LEU:HG	2.20	0.41
1:C:4958:CYS:HA	3:C:5301:ATP:N7	2.36	0.41
1:A:426:ARG:NH1	1:A:426:ARG:HB3	2.36	0.41
1:A:563:VAL:O	1:A:567:VAL:HG23	2.21	0.41
1:A:795:GLY:HA3	1:A:812:HIS:CE1	2.56	0.41
1:A:879:HIS:NE2	1:A:921:ASN:OD1	2.54	0.41
1:A:894:GLY:HA3	1:A:903:LEU:HD23	2.03	0.41
1:A:1449:TRP:CD1	1:A:1466:LEU:HD13	2.56	0.41
1:A:1496:TRP:CZ2	1:A:1498:GLY:HA3	2.56	0.41
1:A:1716:ILE:CG2	1:A:1847:THR:HG21	2.50	0.41
1:A:2014:ASP:OD1	1:A:2014:ASP:N	2.53	0.41
1:A:2181:SER:O	1:A:2185:ILE:HG13	2.21	0.41
1:A:2797:PHE:CE1	1:A:2802:LYS:HG2	2.56	0.41
1:A:3202:PRO:C	1:A:3284:TRP:HH2	2.28	0.41
1:A:3514:LEU:HA	1:A:3517:MET:HG2	2.02	0.41
1:A:3540:TYR:CZ	1:A:3601:ALA:HB2	2.56	0.41
1:A:3959:LYS:HG2	1:A:4022:ASP:OD2	2.21	0.41
1:A:3969:ILE:CD1	1:A:3977:GLN:HG2	2.49	0.41
1:A:4183:ILE:HD12	1:A:5021:PHE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4579:PHE:O	1:A:4632:LEU:HG	2.20	0.41
1:A:4718:LYS:HD3	1:A:4718:LYS:N	2.35	0.41
1:A:4843:LEU:HD22	1:D:4823:LEU:HD22	2.03	0.41
2:E:24:VAL:HG13	2:E:48:PHE:HE1	1.85	0.41
2:E:48:PHE:CE1	2:E:59:TRP:HH2	2.38	0.41
2:G:27:THR:HA	2:G:38:SER:HA	2.03	0.41
2:G:56:ILE:HD12	1:C:1783:VAL:O	2.21	0.41
2:G:57:ARG:NH2	2:G:80:TYR:CD1	2.89	0.41
1:B:57:ASN:OD1	1:B:57:ASN:N	2.54	0.41
1:B:78:LEU:HA	1:B:81:MET:SD	2.61	0.41
1:B:172:VAL:HG12	1:B:178:ARG:C	2.45	0.41
1:B:418:LEU:HA	1:B:421:PHE:CZ	2.56	0.41
1:B:603:LEU:HG	1:B:1669:LEU:CD1	2.49	0.41
1:B:993:HIS:ND1	1:B:1024:TYR:HD2	2.19	0.41
1:B:996:TRP:HD1	1:B:996:TRP:O	2.04	0.41
1:B:1007:TYR:N	1:B:1021:LEU:HD22	2.36	0.41
1:B:1228:ILE:HG22	1:B:1827:ARG:NH1	2.34	0.41
1:B:1449:TRP:CD1	1:B:1466:LEU:HD13	2.56	0.41
1:B:2313:LEU:HG	1:B:2318:TYR:HB3	2.03	0.41
1:B:2420:HIS:O	1:B:2424:SER:OG	2.29	0.41
1:B:2779:GLU:OE1	1:B:2779:GLU:N	2.51	0.41
1:B:3285:TRP:HA	1:B:3307:VAL:HB	2.02	0.41
1:B:3312:LEU:O	1:B:3345:ILE:HD11	2.21	0.41
1:B:3314:SER:O	1:B:3318:ASN:ND2	2.54	0.41
1:B:3412:LEU:O	1:B:3416:VAL:HG22	2.20	0.41
1:B:3575:LEU:HD21	1:C:1208:VAL:CG1	2.48	0.41
1:B:3721:LEU:HD12	1:B:3721:LEU:HA	1.93	0.41
1:B:3927:GLN:OE1	1:B:3988:ALA:HA	2.21	0.41
1:B:3959:LYS:HG2	1:B:4022:ASP:OD2	2.21	0.41
1:B:3985:LEU:O	1:B:3989:VAL:HG23	2.20	0.41
1:B:4579:PHE:O	1:B:4632:LEU:HG	2.20	0.41
1:B:4584:ASP:OD1	1:B:4584:ASP:N	2.50	0.41
1:B:4799:SER:HA	1:B:4812:HIS:HE1	1.86	0.41
1:D:110:ARG:HA	1:D:117:TYR:HA	2.03	0.41
1:D:207:SER:OG	1:D:208:CYS:N	2.53	0.41
1:D:846:LEU:HD11	1:D:1026:LEU:HD13	2.03	0.41
1:D:879:HIS:NE2	1:D:921:ASN:OD1	2.54	0.41
1:D:908:VAL:HG13	1:D:909:ASN:N	2.36	0.41
1:D:935:LEU:HD23	1:D:1056:PRO:HG3	2.03	0.41
1:D:996:TRP:HD1	1:D:996:TRP:O	2.04	0.41
1:D:1007:TYR:N	1:D:1021:LEU:HD22	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1023:PRO:HB3	1:D:1025:ARG:NH1	2.36	0.41
1:D:1496:TRP:CZ2	1:D:1498:GLY:HA3	2.56	0.41
1:D:1552:VAL:HB	1:D:1564:PHE:CZ	2.56	0.41
1:D:1694:LEU:O	1:D:1698:LEU:HG	2.20	0.41
1:D:1954:ARG:NH1	1:D:2042:CYS:HA	2.36	0.41
1:D:2142:TYR:CE2	1:D:2197:LEU:HB2	2.56	0.41
1:D:2199:ARG:HA	1:D:2204:HIS:HE1	1.86	0.41
1:D:2325:PRO:HG3	1:D:2422:ILE:HG22	2.02	0.41
1:D:2471:SER:HA	1:D:2524:VAL:O	2.21	0.41
1:D:2785:LEU:HD23	1:D:2785:LEU:HA	1.94	0.41
1:D:2915:GLU:HG3	1:D:2915:GLU:H	1.71	0.41
1:D:4090:LYS:H	1:D:4090:LYS:HG2	1.68	0.41
1:D:4181:ILE:HD12	1:D:4181:ILE:HA	1.80	0.41
1:D:4729:GLY:C	1:D:4734:ARG:HH12	2.29	0.41
1:D:4974:GLY:O	1:D:4977:THR:OG1	2.32	0.41
1:C:34:LYS:H	1:C:53:SER:HG	1.65	0.41
1:C:180:LEU:HD12	1:C:180:LEU:HA	1.89	0.41
1:C:415:ILE:HD11	1:C:490:CYS:SG	2.61	0.41
1:C:645:ARG:HG3	1:C:646:PRO:O	2.20	0.41
1:C:879:HIS:NE2	1:C:921:ASN:OD1	2.54	0.41
1:C:908:VAL:HG13	1:C:909:ASN:N	2.36	0.41
1:C:937:CYS:HB3	1:C:1056:PRO:HD3	2.03	0.41
1:C:993:HIS:ND1	1:C:1024:TYR:HD2	2.19	0.41
1:C:1496:TRP:CZ2	1:C:1498:GLY:HA3	2.56	0.41
1:C:2142:TYR:CZ	1:C:2197:LEU:HB2	2.56	0.41
1:C:2142:TYR:CE2	1:C:2197:LEU:HB2	2.56	0.41
1:C:2199:ARG:HA	1:C:2204:HIS:HE1	1.85	0.41
1:C:2326:CYS:O	1:C:2330:ARG:HG3	2.21	0.41
1:C:2332:LEU:HD23	1:C:2332:LEU:HA	1.95	0.41
1:C:2440:MET:SD	1:C:2440:MET:C	3.04	0.41
1:C:2538:THR:O	1:C:2542:SER:N	2.40	0.41
1:C:2786:LYS:HD2	1:C:2786:LYS:C	2.46	0.41
1:C:2904:LEU:O	1:C:2906:VAL:HG22	2.21	0.41
1:C:3056:LEU:HD12	1:C:3056:LEU:H	1.86	0.41
1:C:3410:PRO:O	1:C:3414:ARG:NH1	2.54	0.41
1:C:3540:TYR:CZ	1:C:3601:ALA:HB2	2.56	0.41
1:C:3647:HIS:CG	1:C:3648:ARG:N	2.89	0.41
1:C:3844:LEU:HD23	1:C:3844:LEU:HA	1.84	0.41
1:C:3927:GLN:OE1	1:C:3988:ALA:HA	2.21	0.41
1:C:4023:MET:O	1:C:4027:LEU:HG	2.21	0.41
1:C:4251:ILE:HD13	1:C:4664:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:ARG:HA	1:A:117:TYR:HA	2.03	0.41
1:A:111:HIS:CD2	1:A:114:SER:H	2.39	0.41
1:A:180:LEU:O	1:A:198:THR:HB	2.21	0.41
1:A:415:ILE:HD11	1:A:490:CYS:SG	2.61	0.41
1:A:897:ARG:HG3	1:A:904:HIS:CE1	2.55	0.41
1:A:1259:ARG:HH12	1:A:1593:PRO:HA	1.85	0.41
1:A:1585:LYS:HD3	1:A:1585:LYS:O	2.20	0.41
1:A:2005:GLN:HE22	1:A:3638:MET:CE	2.34	0.41
1:A:2010:LEU:HD11	1:A:3653:PHE:CE1	2.56	0.41
1:A:2294:ASP:OD1	1:A:2297:LYS:HE3	2.21	0.41
1:A:2919:ASP:OD1	1:A:2922:LYS:NZ	2.50	0.41
1:A:3566:SER:N	1:A:3569:LEU:HD12	2.35	0.41
1:A:4003:LEU:HD21	1:A:4012:LEU:HD23	2.02	0.41
2:H:67:SER:C	2:H:103:LEU:HD23	2.46	0.41
2:G:77:SER:O	2:G:81:ALA:N	2.50	0.41
1:B:935:LEU:HD23	1:B:1056:PRO:HG3	2.03	0.41
1:B:1973:GLN:NE2	1:B:3642:TYR:CD2	2.89	0.41
1:B:2010:LEU:HD11	1:B:3653:PHE:HE1	1.86	0.41
1:B:2142:TYR:CZ	1:B:2197:LEU:HB2	2.56	0.41
1:B:2608:MET:HE2	1:B:2643:LEU:HB3	2.03	0.41
1:B:2765:LYS:HZ1	1:B:2856:ASN:N	2.18	0.41
1:B:2786:LYS:HD2	1:B:2786:LYS:C	2.46	0.41
1:B:3158:LEU:H	1:B:3158:LEU:HD23	1.85	0.41
1:B:3442:PHE:CD1	1:B:3514:LEU:HD11	2.56	0.41
1:B:3647:HIS:CG	1:B:3648:ARG:N	2.89	0.41
1:B:3750:GLU:CD	1:B:3750:GLU:N	2.79	0.41
1:B:3805:LEU:HB3	1:B:3890:LEU:HB3	2.03	0.41
1:B:4060:LYS:HA	1:B:4060:LYS:HD2	1.82	0.41
1:B:4159:ARG:HB3	1:B:4163:PHE:CZ	2.56	0.41
1:B:4879:MET:HB3	1:B:4880:MET:CE	2.51	0.41
1:D:484:LEU:O	1:D:488:LEU:HG	2.20	0.41
1:D:1082:THR:HG21	1:D:1107:PRO:HG3	2.02	0.41
1:D:2230:THR:OG1	1:D:2268[A]:GLN:NE2	2.48	0.41
1:D:2268[B]:GLN:H	1:D:2268[B]:GLN:HG3	1.55	0.41
1:D:2294:ASP:OD1	1:D:2297:LYS:HE3	2.21	0.41
1:D:3815:LYS:HB2	1:D:3816:MET:CE	2.50	0.41
1:D:4060:LYS:HA	1:D:4060:LYS:HD2	1.83	0.41
1:D:4072:VAL:HG11	1:D:4125:PHE:HB2	2.03	0.41
1:D:4126:GLU:H	1:D:4126:GLU:CD	2.29	0.41
1:D:4686:LEU:O	1:D:4690:GLU:N	2.54	0.41
1:D:4708:THR:HA	1:D:4709:PRO:HD3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:241:GLN:HB2	1:C:243:ARG:HE	1.86	0.41
1:C:1153:ILE:CD1	1:C:1160:ILE:HG12	2.50	0.41
1:C:1511:HIS:ND1	1:C:1511:HIS:N	2.65	0.41
1:C:2336:ARG:HD2	1:C:2337:PHE:CD1	2.56	0.41
1:C:2361:PRO:C	1:C:2369[B]:ARG:HH22	2.29	0.41
1:C:2530:MET:CE	1:C:2531:ARG:HD2	2.51	0.41
1:C:2672:LEU:HD23	1:C:2672:LEU:HA	1.87	0.41
1:C:3158:LEU:H	1:C:3158:LEU:HD23	1.85	0.41
1:C:3269:VAL:HA	1:C:3273:THR:OG1	2.20	0.41
1:C:4865:LYS:HB2	1:C:4875:LYS:NZ	2.35	0.41
1:A:20:VAL:HG13	1:A:202:MET:SD	2.61	0.40
1:A:21:VAL:HG13	1:A:205:ILE:HG13	2.03	0.40
1:A:1619:ARG:HB3	1:A:1626:TRP:CE2	2.56	0.40
1:A:2012:PHE:HD1	1:A:3661:TRP:HZ2	1.68	0.40
1:A:2694:GLU:HG2	1:A:2697:ARG:NE	2.33	0.40
1:A:2861:ASP:HB3	1:A:2928:LYS:HG3	2.02	0.40
1:A:2888:ARG:NH2	1:A:2891:LYS:HD2	2.36	0.40
1:A:2952:GLU:HG3	1:A:2957:PHE:CD1	2.56	0.40
1:A:2977:LEU:HA	1:A:2980:VAL:HG22	2.03	0.40
1:A:3562:LYS:HD3	1:A:3562:LYS:HA	1.60	0.40
1:A:3670:GLU:HA	1:A:3673:MET:HB2	2.02	0.40
1:A:3985:LEU:O	1:A:3989:VAL:HG23	2.20	0.40
1:A:4587:PRO:HD3	1:A:4631:PHE:HD1	1.86	0.40
1:A:4729:GLY:C	1:A:4734:ARG:HH12	2.29	0.40
1:A:4827:LEU:HD12	1:A:4828:SER:N	2.36	0.40
1:A:4879:MET:HB3	1:A:4880:MET:CE	2.51	0.40
2:G:28:GLY:N	2:G:37:ASP:O	2.34	0.40
2:F:17:LYS:CD	2:F:20:GLN:HB2	2.51	0.40
1:B:645:ARG:HG3	1:B:646:PRO:O	2.20	0.40
1:B:908:VAL:HG13	1:B:909:ASN:N	2.36	0.40
1:B:919:ASN:OD1	1:B:922:LEU:HD22	2.21	0.40
1:B:1526:LEU:HD12	1:B:1527:MET:H	1.85	0.40
1:B:2336:ARG:HD2	1:B:2337:PHE:CD1	2.56	0.40
1:B:2361:PRO:C	1:B:2369[B]:ARG:HH22	2.29	0.40
1:B:2871:LEU:HA	1:B:2874:MET:HE2	2.02	0.40
1:B:2999:ALA:O	1:B:3003:LEU:HB2	2.20	0.40
1:B:3102:ASP:HA	1:B:3105:LYS:HD3	2.03	0.40
1:B:3670:GLU:HA	1:B:3673:MET:HB2	2.03	0.40
1:B:3966:THR:HG21	1:B:4025:VAL:HG12	2.04	0.40
1:B:4072:VAL:HG11	1:B:4125:PHE:HB2	2.03	0.40
1:D:247:TYR:HE1	1:D:376:ALA:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:ARG:HH21	1:D:328:LYS:HB2	1.86	0.40
1:D:308:HIS:HE2	1:D:310:LYS:HB3	1.85	0.40
1:D:700:GLU:O	1:D:705:ASN:ND2	2.30	0.40
1:D:993:HIS:ND1	1:D:1024:TYR:HD2	2.19	0.40
1:D:1954:ARG:HH12	1:D:2042:CYS:HA	1.86	0.40
1:D:2010:LEU:HD11	1:D:3653:PHE:CE1	2.56	0.40
1:D:2332:LEU:HD23	1:D:2332:LEU:HA	1.95	0.40
1:D:2557:ALA:C	1:D:2560:PRO:HD2	2.46	0.40
1:D:2889:LYS:HA	1:D:2892:GLN:HG2	2.02	0.40
1:D:3402:CYS:HG	1:D:3451:PHE:HE1	1.69	0.40
1:D:3410:PRO:O	1:D:3414:ARG:NH1	2.54	0.40
1:D:3527:PRO:HA	1:D:3530:GLN:HG3	2.02	0.40
1:D:3540:TYR:CZ	1:D:3601:ALA:HB2	2.56	0.40
1:D:3670:GLU:HA	1:D:3673:MET:HB2	2.03	0.40
1:D:3805:LEU:HB3	1:D:3890:LEU:HB3	2.03	0.40
1:D:4003:LEU:HD21	1:D:4012:LEU:HD23	2.02	0.40
1:D:4799:SER:HA	1:D:4812:HIS:HE1	1.86	0.40
1:D:4958:CYS:CB	1:D:4961:CYS:HB2	2.50	0.40
1:C:110:ARG:HA	1:C:117:TYR:HA	2.03	0.40
1:C:207:SER:OG	1:C:208:CYS:N	2.53	0.40
1:C:267:ILE:O	1:C:270:SER:OG	2.24	0.40
1:C:281:ARG:NH1	1:C:309:THR:OG1	2.54	0.40
1:C:603:LEU:HD11	1:C:621:ILE:HG12	2.02	0.40
1:C:891:TRP:CA	1:C:902:ARG:HE	2.32	0.40
1:C:1270:LEU:CD1	1:C:1564:PHE:HB2	2.51	0.40
1:C:2181:SER:O	1:C:2185:ILE:HG13	2.21	0.40
1:C:2294:ASP:OD1	1:C:2297:LYS:HE3	2.21	0.40
1:C:2977:LEU:HA	1:C:2980:VAL:HG22	2.03	0.40
1:C:3312:LEU:O	1:C:3345:ILE:HD11	2.21	0.40
1:C:3402:CYS:HG	1:C:3451:PHE:HE1	1.69	0.40
1:C:3815:LYS:HB2	1:C:3816:MET:CE	2.50	0.40
1:C:4059:LEU:HD13	1:C:4167:ALA:HB2	2.03	0.40
1:C:4799:SER:HA	1:C:4812:HIS:HE1	1.86	0.40
1:C:4999:ASP:OD1	1:C:5001:THR:HG23	2.22	0.40
1:A:125:ARG:HD2	1:A:125:ARG:O	2.20	0.40
1:A:489:ASN:HB3	1:A:493:ARG:NH2	2.37	0.40
1:A:710:ASP:OD1	1:A:713:SER:OG	2.32	0.40
1:A:717:ASP:HB2	1:A:722:TRP:HD1	1.84	0.40
1:A:846:LEU:HD11	1:A:1026:LEU:HD13	2.03	0.40
1:A:887:ILE:HG12	1:A:959:TYR:HB3	2.04	0.40
1:A:919:ASN:OD1	1:A:922:LEU:HD22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:996:TRP:O	1:A:996:TRP:HD1	2.04	0.40
1:A:1220:GLN:HG3	1:D:3522:LEU:HB3	2.01	0.40
1:A:1568:LYS:HG2	1:A:1589:PRO:HG3	2.03	0.40
1:A:2240:CYS:SG	1:A:2250:MET:HE1	2.62	0.40
1:A:2368:LEU:N	1:A:2374:SER:O	2.34	0.40
1:A:2530:MET:CE	1:A:2531:ARG:HD2	2.51	0.40
1:A:2905:LEU:HD23	1:A:2905:LEU:HA	1.82	0.40
1:A:3001:ILE:C	1:A:3004:PRO:HD2	2.46	0.40
1:A:3498:ARG:HB3	1:A:3499:ARG:H	1.51	0.40
1:A:3647:HIS:CG	1:A:3648:ARG:N	2.89	0.40
1:A:4147:LEU:HD13	1:A:4164:LEU:HD23	2.02	0.40
2:G:42:ARG:HH21	1:C:1691:GLN:HB3	1.86	0.40
2:F:73:LYS:HD2	2:F:73:LYS:C	2.46	0.40
2:F:77:SER:O	2:F:81:ALA:N	2.54	0.40
1:B:378:LEU:HD23	1:B:378:LEU:HA	1.86	0.40
1:B:758:ARG:HG2	1:B:763:PRO:HA	2.03	0.40
1:B:846:LEU:HD11	1:B:1026:LEU:HD13	2.03	0.40
1:B:925:SER:O	1:B:928:THR:OG1	2.30	0.40
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.20	0.40
1:B:2006:ILE:O	1:B:2010:LEU:HD23	2.20	0.40
1:B:2326:CYS:O	1:B:2330:ARG:HG3	2.21	0.40
1:B:2686:LEU:HD22	1:B:2997:PHE:CD1	2.55	0.40
1:B:3062:PRO:HA	1:B:3065:VAL:HG22	2.04	0.40
1:B:3815:LYS:HB2	1:B:3816:MET:CE	2.50	0.40
1:B:4028:LEU:HG	1:B:4146:LEU:HD13	2.03	0.40
1:B:4999:ASP:OD1	1:B:5001:THR:HG23	2.22	0.40
1:D:125:ARG:O	1:D:125:ARG:HD2	2.20	0.40
1:D:603:LEU:HD11	1:D:621:ILE:HG12	2.02	0.40
1:D:795:GLY:HA3	1:D:812:HIS:CE1	2.56	0.40
1:D:937:CYS:HB3	1:D:1056:PRO:HD3	2.03	0.40
1:D:1131:ARG:HD2	1:D:1178:ALA:HB1	2.03	0.40
1:D:1252:HIS:CE1	1:D:1255:TYR:H	2.39	0.40
1:D:1293:LEU:HB2	1:D:1579:MET:HE3	2.03	0.40
1:D:1433:TYR:CD2	1:D:1573:MET:HB2	2.57	0.40
1:D:1449:TRP:CD1	1:D:1466:LEU:HD13	2.56	0.40
1:D:1952:GLN:HG3	1:D:1956:GLU:OE1	2.21	0.40
1:D:2005:GLN:HE22	1:D:3638:MET:CE	2.34	0.40
1:D:2131:LEU:HD11	1:D:3662:ILE:HG13	2.04	0.40
1:D:2447:LYS:HZ2	1:D:2449:GLU:H	1.69	0.40
1:D:3378:GLN:HE21	1:D:3378:GLN:C	2.29	0.40
1:D:3560:GLN:OE1	1:D:3560:GLN:N	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4183:ILE:HD12	1:D:5021:PHE:O	2.21	0.40
1:D:4570:ALA:HA	1:D:4573:ILE:HD12	2.04	0.40
1:C:111:HIS:CD2	1:C:114:SER:H	2.39	0.40
1:C:234:SER:HG	1:C:238:SER:HG	1.64	0.40
1:C:664:PHE:HB3	1:C:811:CYS:SG	2.60	0.40
1:C:1007:TYR:N	1:C:1021:LEU:HD22	2.36	0.40
1:C:1229:ASN:ND2	1:C:1827:ARG:HG3	2.35	0.40
1:C:1703:LEU:HG	1:C:1704:PRO:HD2	2.03	0.40
1:C:2644:LEU:HD23	1:C:2647:HIS:CE1	2.56	0.40
1:C:3023:LYS:HE3	1:C:3025:LEU:HD23	2.03	0.40
1:C:3358:PHE:CE1	1:C:3362:ILE:HD11	2.57	0.40
1:C:3750:GLU:CD	1:C:3750:GLU:N	2.79	0.40
1:C:4989:MET:C	1:C:4989:MET:SD	3.05	0.40
1:A:281:ARG:NH1	1:A:309:THR:OG1	2.54	0.40
1:A:472:ARG:HA	1:A:472:ARG:HH11	1.85	0.40
1:A:534:ARG:NE	1:A:534:ARG:HA	2.37	0.40
1:A:881:LEU:HA	1:A:884:LEU:HD13	2.03	0.40
1:A:1007:TYR:N	1:A:1021:LEU:HD22	2.36	0.40
1:A:1082:THR:HG21	1:A:1107:PRO:HG3	2.02	0.40
1:A:1153:ILE:HA	1:A:1153:ILE:HD12	1.82	0.40
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.20	0.40
1:A:1952:GLN:HG3	1:A:1956:GLU:OE1	2.21	0.40
1:A:1954:ARG:HH12	1:A:2042:CYS:HA	1.86	0.40
1:A:2110:TYR:HB2	1:A:3695:PRO:HD2	2.04	0.40
1:A:2527:LEU:O	1:A:2531:ARG:HG2	2.20	0.40
1:A:2904:LEU:O	1:A:2906:VAL:HG22	2.21	0.40
1:A:3227:ARG:NH2	1:A:3231:GLY:O	2.54	0.40
1:A:3314:SER:O	1:A:3318:ASN:ND2	2.54	0.40
1:A:3563:VAL:HG21	1:A:3573:MET:HG2	2.03	0.40
1:A:3835:LEU:O	1:A:3838:THR:OG1	2.26	0.40
1:A:4095:LYS:HE2	1:A:4095:LYS:HB2	1.91	0.40
1:A:4681:LEU:HA	1:A:4685:GLY:HA2	2.03	0.40
2:H:27:THR:HA	2:H:38:SER:HA	2.02	0.40
1:B:241:GLN:HB2	1:B:243:ARG:HE	1.86	0.40
1:B:407:THR:HG23	1:B:411:TYR:CE2	2.56	0.40
1:B:937:CYS:HB3	1:B:1056:PRO:HD3	2.03	0.40
1:B:960:MET:H	1:B:960:MET:CE	2.33	0.40
1:B:1433:TYR:CD2	1:B:1573:MET:HB2	2.56	0.40
1:B:1481:GLY:O	1:B:1482:ASN:C	2.63	0.40
1:B:1619:ARG:HB3	1:B:1626:TRP:CE2	2.56	0.40
1:B:2325:PRO:HG3	1:B:2422:ILE:HG22	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2557:ALA:C	1:B:2560:PRO:HD2	2.46	0.40
1:B:2608:MET:O	1:B:2612[B]:ARG:HG3	2.21	0.40
1:B:2861:ASP:HB3	1:B:2928:LYS:HG3	2.02	0.40
1:B:2904:LEU:O	1:B:2906:VAL:HG22	2.20	0.40
1:B:2992:GLU:HA	1:B:2995:ILE:HB	2.02	0.40
1:B:3366:ARG:HH12	1:B:3370:GLY:HA3	1.85	0.40
1:B:3598:GLU:OE1	1:B:3598:GLU:N	2.55	0.40
1:B:3719:ASP:OD2	1:B:3722:TYR:N	2.49	0.40
1:B:3997:ALA:O	1:B:4001:MET:HE3	2.21	0.40
1:B:4587:PRO:HD3	1:B:4631:PHE:HD1	1.86	0.40
1:B:4649:LEU:O	1:B:4652:LEU:HD12	2.21	0.40
1:B:4884:LEU:HA	1:B:4887:MET:SD	2.62	0.40
1:B:4958:CYS:HA	3:B:5301:ATP:N7	2.36	0.40
1:D:57:ASN:OD1	1:D:57:ASN:N	2.54	0.40
1:D:289:ARG:HB3	1:D:302:VAL:O	2.22	0.40
1:D:534:ARG:HA	1:D:534:ARG:NE	2.37	0.40
1:D:816:LEU:HD11	1:D:851:PHE:CZ	2.57	0.40
1:D:952:LYS:NZ	1:D:968:ALA:O	2.35	0.40
1:D:976:ARG:HA	1:D:976:ARG:HD3	1.66	0.40
1:D:2326:CYS:O	1:D:2330:ARG:HG3	2.21	0.40
1:D:2336:ARG:HD2	1:D:2337:PHE:CD1	2.56	0.40
1:D:2361:PRO:C	1:D:2369[B]:ARG:HH22	2.29	0.40
1:D:2763:HIS:CD2	1:D:2790:MET:HE2	2.56	0.40
1:D:2785:LEU:O	1:D:2786:LYS:HB3	2.21	0.40
1:D:2888:ARG:NH2	1:D:2891:LYS:HD2	2.36	0.40
1:D:3062:PRO:HA	1:D:3065:VAL:HG22	2.04	0.40
1:D:3358:PHE:CE1	1:D:3362:ILE:HD11	2.57	0.40
1:D:3442:PHE:CD1	1:D:3514:LEU:HD11	2.56	0.40
1:C:16:THR:HA	1:C:69:LEU:CD1	2.50	0.40
1:C:180:LEU:O	1:C:198:THR:HB	2.21	0.40
1:C:275:ARG:O	1:C:278:GLN:HB2	2.22	0.40
1:C:305:CYS:SG	1:C:306:LYS:N	2.93	0.40
1:C:887:ILE:HG12	1:C:959:TYR:HB3	2.04	0.40
1:C:893:TYR:HB3	1:C:962:SER:HB3	2.04	0.40
1:C:1079:LYS:NZ	1:C:1108:GLU:HA	2.36	0.40
1:C:2005:GLN:HE22	1:C:3638:MET:CE	2.34	0.40
1:C:2012:PHE:CD1	1:C:3661:TRP:HZ2	2.40	0.40
1:C:2608:MET:HE2	1:C:2643:LEU:HB3	2.03	0.40
1:C:3552:PHE:HA	1:C:3555:ASN:ND2	2.37	0.40
1:C:3670:GLU:HA	1:C:3673:MET:HB2	2.03	0.40
1:C:3721:LEU:HD12	1:C:3721:LEU:HA	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4570:ALA:HA	1:C:4573:ILE:HD12	2.04	0.40
1:C:4580:TYR:CE1	1:C:4630:TYR:HB3	2.56	0.40
1:C:4686:LEU:O	1:C:4690:GLU:N	2.54	0.40
1:A:111:HIS:CE1	1:A:113:HIS:HB3	2.57	0.40
1:A:132:ALA:HA	1:A:193:ALA:O	2.22	0.40
1:A:349:GLN:HB2	1:A:356:TRP:CZ3	2.57	0.40
1:A:1526:LEU:HD12	1:A:1527:MET:H	1.85	0.40
1:A:1588:ALA:HA	1:A:1589:PRO:HD3	1.95	0.40
1:A:1753:LYS:HB3	1:A:1758:ARG:HG3	2.04	0.40
1:A:2131:LEU:HD11	1:A:3662:ILE:HG13	2.04	0.40
1:A:2142:TYR:CZ	1:A:2197:LEU:HB2	2.56	0.40
1:A:2189:LYS:NZ	1:A:2192:TYR:HB2	2.30	0.40
1:A:2268[A]:GLN:H	1:A:2268[A]:GLN:HG3	1.51	0.40
1:A:2471:SER:HA	1:A:2524:VAL:O	2.21	0.40
1:A:2644:LEU:HD23	1:A:2647:HIS:CE1	2.56	0.40
1:A:2954:ARG:NH1	1:A:3030:HIS:O	2.55	0.40
1:A:3102:ASP:HA	1:A:3105:LYS:HD3	2.03	0.40
1:A:3283:ARG:HA	1:A:3286:GLU:OE1	2.21	0.40
1:A:4072:VAL:HG11	1:A:4125:PHE:HB2	2.03	0.40
1:B:111:HIS:CD2	1:B:114:SER:H	2.39	0.40
1:B:111:HIS:CE1	1:B:113:HIS:HB3	2.57	0.40
1:B:124:SER:HB2	1:B:133:PHE:CE1	2.57	0.40
1:B:281:ARG:NH1	1:B:309:THR:OG1	2.54	0.40
1:B:534:ARG:NE	1:B:534:ARG:HA	2.37	0.40
1:B:795:GLY:HA3	1:B:812:HIS:CE1	2.56	0.40
1:B:879:HIS:NE2	1:B:921:ASN:OD1	2.54	0.40
1:B:895:PRO:HD2	1:B:903:LEU:HD23	2.03	0.40
1:B:996:TRP:HE1	1:B:1000:ARG:HH11	1.68	0.40
1:B:1468:LYS:HE3	1:B:1468:LYS:HB2	1.89	0.40
1:B:1753:LYS:HB3	1:B:1758:ARG:HG3	2.04	0.40
1:B:1954:ARG:HH12	1:B:2042:CYS:HA	1.86	0.40
1:B:3402:CYS:HG	1:B:3451:PHE:HE1	1.70	0.40
1:B:3654:LEU:HD23	1:B:3654:LEU:HA	1.88	0.40
1:B:4147:LEU:HD13	1:B:4164:LEU:HD23	2.02	0.40
1:B:4827:LEU:HD12	1:B:4828:SER:N	2.36	0.40
1:D:180:LEU:O	1:D:198:THR:HB	2.21	0.40
1:D:349:GLN:HB2	1:D:356:TRP:CZ3	2.57	0.40
1:D:426:ARG:NH1	1:D:426:ARG:HB3	2.36	0.40
1:D:457:GLU:OE1	1:D:457:GLU:N	2.54	0.40
1:D:575:LEU:HD12	1:D:575:LEU:HA	1.76	0.40
1:D:1679:ASN:ND2	1:D:1797:ARG:O	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1753:LYS:HB3	1:D:1758:ARG:HG3	2.04	0.40
1:D:2608:MET:HE2	1:D:2643:LEU:HB3	2.03	0.40
1:D:2644:LEU:HD23	1:D:2647:HIS:CE1	2.56	0.40
1:D:3227:ARG:NH2	1:D:3231:GLY:O	2.54	0.40
1:D:3598:GLU:OE1	1:D:3598:GLU:N	2.55	0.40
1:D:3934:TYR:O	1:D:3938:SER:HB3	2.22	0.40
1:D:4249:ALA:O	1:D:4252:SER:OG	2.29	0.40
1:D:4681:LEU:HA	1:D:4685:GLY:HA2	2.03	0.40
1:D:4999:ASP:OD1	1:D:5001:THR:HG23	2.21	0.40
1:C:23:GLN:HB3	1:C:34:LYS:HZ3	1.86	0.40
1:C:132:ALA:HA	1:C:193:ALA:O	2.22	0.40
1:C:247:TYR:HE1	1:C:376:ALA:HA	1.86	0.40
1:C:275:ARG:HH21	1:C:328:LYS:HB2	1.86	0.40
1:C:308:HIS:O	1:C:308:HIS:CG	2.73	0.40
1:C:349:GLN:HB2	1:C:356:TRP:CZ3	2.57	0.40
1:C:477:LEU:O	1:C:480:GLU:HG3	2.20	0.40
1:C:534:ARG:HA	1:C:534:ARG:NE	2.37	0.40
1:C:699:GLY:N	1:C:1647:CYS:SG	2.84	0.40
1:C:846:LEU:HD11	1:C:1026:LEU:HD13	2.02	0.40
1:C:1131:ARG:HD2	1:C:1178:ALA:HB1	2.03	0.40
1:C:1552:VAL:HB	1:C:1564:PHE:CZ	2.56	0.40
1:C:1640:HIS:NE2	1:C:1642:PRO:HA	2.36	0.40
1:C:1719:HIS:CE1	1:C:1802:ILE:HD11	2.57	0.40
1:C:1952:GLN:HG3	1:C:1956:GLU:OE1	2.21	0.40
1:C:2099:SER:HA	1:C:2124:LEU:HD12	2.03	0.40
1:C:2110:TYR:HB2	1:C:3695:PRO:HD2	2.03	0.40
1:C:2765:LYS:HZ1	1:C:2856:ASN:N	2.18	0.40
1:C:3754:GLU:CD	1:C:4718:LYS:HG2	2.47	0.40
1:C:3812:VAL:O	1:C:3816:MET:HE2	2.20	0.40
1:C:3937:TYR:CE2	1:C:3943:ILE:HG23	2.57	0.40
1:C:3966:THR:HG21	1:C:4025:VAL:HG12	2.03	0.40
1:C:4729:GLY:C	1:C:4734:ARG:HH12	2.29	0.40
1:A:103:TYR:HB2	1:A:161:GLU:H	1.87	0.40
1:A:308:HIS:CD2	1:A:311:ALA:H	2.38	0.40
1:A:418:LEU:HA	1:A:421:PHE:CZ	2.56	0.40
1:A:577:ILE:H	1:A:577:ILE:HG12	1.75	0.40
1:A:583:ILE:HG13	1:A:583:ILE:H	1.65	0.40
1:A:1045:THR:HG22	1:A:1049:TYR:CZ	2.57	0.40
1:A:1105:ALA:N	1:A:1189:LEU:O	2.39	0.40
1:A:1270:LEU:CD1	1:A:1564:PHE:HB2	2.51	0.40
1:A:1848:LEU:HD23	1:A:1848:LEU:HA	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2010:LEU:HD11	1:A:3653:PHE:HE1	1.86	0.40
1:A:2155:LEU:HD22	1:A:2188:ASN:OD1	2.20	0.40
1:A:2478:THR:O	1:A:2486:VAL:N	2.41	0.40
1:A:2481:LYS:HZ2	1:A:2486:VAL:HG22	1.87	0.40
1:A:3056:LEU:H	1:A:3056:LEU:HD12	1.86	0.40
1:A:3144:PHE:HB2	1:A:3196:ARG:HB3	2.03	0.40
1:A:3702:VAL:HG11	1:A:3773:ARG:HB3	2.04	0.40
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	2.03	0.40
1:A:4037:ASN:ND2	1:A:5035:GLN:HE22	2.19	0.40
1:A:4999:ASP:OD1	1:A:5001:THR:HG23	2.22	0.40
2:E:67:SER:HB3	2:E:70:GLN:OE1	2.22	0.40
2:G:100:ASP:OD1	2:G:100:ASP:N	2.55	0.40
1:B:110:ARG:HA	1:B:117:TYR:HA	2.03	0.40
1:B:305:CYS:SG	1:B:306:LYS:N	2.93	0.40
1:B:563:VAL:O	1:B:567:VAL:HG23	2.21	0.40
1:B:1270:LEU:CD1	1:B:1564:PHE:HB2	2.51	0.40
1:B:2440:MET:SD	1:B:2440:MET:C	3.04	0.40
1:B:2763:HIS:CD2	1:B:2790:MET:HE2	2.56	0.40
1:B:2825:LYS:NZ	1:B:2931:GLN:HA	2.37	0.40
1:B:2825:LYS:HZ1	1:B:2931:GLN:HA	1.87	0.40
1:B:3283:ARG:HA	1:B:3286:GLU:OE1	2.21	0.40
1:B:3355:HIS:HA	1:B:3359:ILE:CD1	2.52	0.40
1:B:3754:GLU:CD	1:B:4718:LYS:HG2	2.47	0.40
1:B:4760:PRO:HA	1:B:4761:PRO:HD3	1.94	0.40
1:D:132:ALA:HA	1:D:193:ALA:O	2.22	0.40
1:D:563:VAL:O	1:D:567:VAL:HG23	2.21	0.40
1:D:893:TYR:HB3	1:D:962:SER:HB3	2.04	0.40
1:D:1251:GLU:OE1	1:D:1251:GLU:N	2.34	0.40
1:D:1619:ARG:HB3	1:D:1626:TRP:CE2	2.56	0.40
1:D:2012:PHE:CD1	1:D:3661:TRP:HZ2	2.40	0.40
1:D:2099:SER:HA	1:D:2124:LEU:HD12	2.03	0.40
1:D:2313:LEU:HG	1:D:2318:TYR:HB3	2.03	0.40
1:D:2321:ILE:HG12	1:D:2322:GLY:N	2.37	0.40
1:D:2479:LEU:HD22	1:D:2479:LEU:H	1.85	0.40
1:D:3552:PHE:HA	1:D:3555:ASN:ND2	2.37	0.40
1:D:4209:GLN:NE2	1:D:4244:GLU:OE1	2.52	0.40
1:D:4958:CYS:HA	3:D:5301:ATP:N7	2.36	0.40
1:D:4989:MET:C	1:D:4989:MET:SD	3.05	0.40
1:C:103:TYR:HB2	1:C:161:GLU:H	1.87	0.40
1:C:266:ARG:HD2	1:C:268:SER:O	2.22	0.40
1:C:457:GLU:OE1	1:C:457:GLU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:743:VAL:O	1:C:759:ILE:HD12	2.22	0.40
1:C:895:PRO:HD2	1:C:903:LEU:HD23	2.03	0.40
1:C:1159:THR:HG22	1:C:1180:ARG:HA	2.03	0.40
1:C:1205:GLY:HA3	1:C:1225:PRO:HB3	2.04	0.40
1:C:1293:LEU:HB2	1:C:1579:MET:HE3	2.03	0.40
1:C:1427:ILE:HD12	1:C:1427:ILE:HA	1.89	0.40
1:C:1753:LYS:HB3	1:C:1758:ARG:HG3	2.04	0.40
1:C:1810:LYS:HE3	1:C:1810:LYS:HB2	1.69	0.40
1:C:2095:GLN:HB3	1:C:2127:GLN:HB3	2.04	0.40
1:C:2420:HIS:O	1:C:2424:SER:OG	2.29	0.40
1:C:3283:ARG:HA	1:C:3286:GLU:OE1	2.20	0.40
1:C:3663:LEU:HD23	1:C:3663:LEU:HA	1.90	0.40
1:C:3997:ALA:O	1:C:4001:MET:HE3	2.21	0.40
1:C:4159:ARG:HB3	1:C:4163:PHE:CZ	2.56	0.40
1:C:4165:GLU:HA	1:C:4168:GLU:HG2	2.02	0.40
1:C:4543:GLU:H	1:C:4543:GLU:CD	2.24	0.40
1:C:4796:MET:O	1:C:4799:SER:OG	2.36	0.40
1:C:4974:GLY:O	1:C:4977:THR:OG1	2.32	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%)	4250 (97%)	129 (3%)	6 (0%)	48	83
1	B	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48	83
1	C	4385/5037 (87%)	4249 (97%)	130 (3%)	6 (0%)	48	83
1	D	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48	83
2	E	105/108 (97%)	97 (92%)	8 (8%)	0	100	100
2	F	105/108 (97%)	102 (97%)	3 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
All	All	17960/20580 (87%)	17404 (97%)	532 (3%)	24 (0%)	49	83

All (24) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	908	VAL
1	A	3300	ALA
1	A	4711	PHE
1	B	908	VAL
1	B	3300	ALA
1	B	4711	PHE
1	D	908	VAL
1	D	3300	ALA
1	D	4711	PHE
1	C	908	VAL
1	C	3300	ALA
1	C	4711	PHE
1	A	55	ALA
1	B	55	ALA
1	D	55	ALA
1	C	55	ALA
1	A	2702	CYS
1	B	2702	CYS
1	D	2702	CYS
1	C	2702	CYS
1	A	1930	LYS
1	B	1930	LYS
1	D	1930	LYS
1	C	1930	LYS

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%)	3747 (98%)	89 (2%)	44	63
1	B	3836/4276 (90%)	3748 (98%)	88 (2%)	44	63
1	C	3836/4276 (90%)	3750 (98%)	86 (2%)	45	64
1	D	3836/4276 (90%)	3748 (98%)	88 (2%)	44	63
2	E	89/90 (99%)	87 (98%)	2 (2%)	45	64
2	F	89/90 (99%)	85 (96%)	4 (4%)	24	46
2	G	89/90 (99%)	85 (96%)	4 (4%)	24	46
2	H	89/90 (99%)	83 (93%)	6 (7%)	15	37
All	All	15700/17464 (90%)	15333 (98%)	367 (2%)	45	63

All (367) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	58	VAL
1	A	134	ASP
1	A	150	MET
1	A	172	VAL
1	A	173	SER
1	A	243	ARG
1	A	246	TYR
1	A	294	THR
1	A	312	THR
1	A	514	SER
1	A	649	PHE
1	A	730	VAL
1	A	850	ASP
1	A	881	LEU
1	A	999	ASP
1	A	1018	ASN
1	A	1022	VAL
1	A	1172	ASP
1	A	1212	ARG
1	A	1231[A]	GLN
1	A	1231[B]	GLN
1	A	1422	ASP
1	A	1463	ASN
1	A	1465	ASP
1	A	1485	SER
1	A	1508	ARG
1	A	1573	MET

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Mol	Chain	Res	Type
1	A	1619	ARG
1	A	1676	LEU
1	A	1730	MET
1	A	1752	ARG
1	A	1812	LEU
1	A	2093	SER
1	A	2227	LYS
1	A	2233	CYS
1	A	2243	SER
1	A	2256	TYR
1	A	2267	MET
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2313	LEU
1	A	2342	ASN
1	A	2369[A]	ARG
1	A	2369[B]	ARG
1	A	2442	LEU
1	A	2443	ILE
1	A	2461	VAL
1	A	2490	MET
1	A	2517	PHE
1	A	2577	ILE
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2634	ASN
1	A	2647	HIS
1	A	2667	THR
1	A	2683	PHE
1	A	2747	ILE
1	A	2782	ASP
1	A	2870[A]	GLU
1	A	2870[B]	GLU
1	A	2937	VAL
1	A	3078	ARG
1	A	3131	TYR
1	A	3155	ASP
1	A	3161	VAL
1	A	3181	THR
1	A	3225	ARG
1	A	3232	LEU
1	A	3367	LYS

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Mol	Chain	Res	Type
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3446	SER
1	A	3531	ASP
1	A	3543	LYS
1	A	3558	HIS
1	A	3672	ARG
1	A	3753	PHE
1	A	3790	THR
1	A	3859	VAL
1	A	3934	TYR
1	A	3955	MET
1	A	4104	THR
1	A	4239	GLU
1	A	4662	ASN
1	A	4684	ASP
1	A	4786	ASP
1	A	4803	HIS
1	A	4807	PHE
1	A	4913	ARG
2	E	6	THR
2	E	25	HIS
2	H	6	THR
2	H	27	THR
2	H	38	SER
2	H	61	GLU
2	H	98	VAL
2	H	102	GLU
2	G	2	VAL
2	G	6	THR
2	G	55	VAL
2	G	104	LEU
2	F	2	VAL
2	F	25	HIS
2	F	61	GLU
2	F	85	THR
1	B	58	VAL
1	B	134	ASP
1	B	150	MET
1	B	172	VAL
1	B	173	SER
1	B	211	GLU

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Mol	Chain	Res	Type
1	B	243	ARG
1	B	246	TYR
1	B	294	THR
1	B	312	THR
1	B	514	SER
1	B	649	PHE
1	B	730	VAL
1	B	850	ASP
1	B	881	LEU
1	B	999	ASP
1	B	1018	ASN
1	B	1022	VAL
1	B	1172	ASP
1	B	1212	ARG
1	B	1231[A]	GLN
1	B	1231[B]	GLN
1	B	1422	ASP
1	B	1463	ASN
1	B	1465	ASP
1	B	1485	SER
1	B	1508	ARG
1	B	1573	MET
1	B	1619	ARG
1	B	1676	LEU
1	B	1752	ARG
1	B	1812	LEU
1	B	2093	SER
1	B	2227	LYS
1	B	2233	CYS
1	B	2243	SER
1	B	2256	TYR
1	B	2267	MET
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2313	LEU
1	B	2342	ASN
1	B	2369[A]	ARG
1	B	2369[B]	ARG
1	B	2442	LEU
1	B	2461	VAL
1	B	2490	MET
1	B	2517	PHE

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Mol	Chain	Res	Type
1	B	2577	ILE
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2634	ASN
1	B	2647	HIS
1	B	2667	THR
1	B	2683	PHE
1	B	2747	ILE
1	B	2782	ASP
1	B	2870[A]	GLU
1	B	2870[B]	GLU
1	B	2937	VAL
1	B	3078	ARG
1	B	3131	TYR
1	B	3155	ASP
1	B	3161	VAL
1	B	3181	THR
1	B	3225	ARG
1	B	3232	LEU
1	B	3367	LYS
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3446	SER
1	B	3531	ASP
1	B	3543	LYS
1	B	3558	HIS
1	B	3672	ARG
1	B	3753	PHE
1	B	3790	THR
1	B	3859	VAL
1	B	3934	TYR
1	B	3955	MET
1	B	4104	THR
1	B	4239	GLU
1	B	4662	ASN
1	B	4684	ASP
1	B	4786	ASP
1	B	4803	HIS
1	B	4807	PHE
1	B	4913	ARG
1	D	58	VAL
1	D	134	ASP

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Mol	Chain	Res	Type
1	D	150	MET
1	D	172	VAL
1	D	173	SER
1	D	243	ARG
1	D	246	TYR
1	D	294	THR
1	D	312	THR
1	D	514	SER
1	D	649	PHE
1	D	730	VAL
1	D	850	ASP
1	D	881	LEU
1	D	999	ASP
1	D	1018	ASN
1	D	1022	VAL
1	D	1172	ASP
1	D	1212	ARG
1	D	1231[A]	GLN
1	D	1231[B]	GLN
1	D	1422	ASP
1	D	1463	ASN
1	D	1465	ASP
1	D	1485	SER
1	D	1508	ARG
1	D	1573	MET
1	D	1619	ARG
1	D	1676	LEU
1	D	1730	MET
1	D	1752	ARG
1	D	1812	LEU
1	D	2093	SER
1	D	2227	LYS
1	D	2233	CYS
1	D	2243	SER
1	D	2256	TYR
1	D	2267	MET
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2313	LEU
1	D	2342	ASN
1	D	2369[A]	ARG
1	D	2369[B]	ARG

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Mol	Chain	Res	Type
1	D	2442	LEU
1	D	2461	VAL
1	D	2490	MET
1	D	2517	PHE
1	D	2577	ILE
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2634	ASN
1	D	2647	HIS
1	D	2667	THR
1	D	2683	PHE
1	D	2747	ILE
1	D	2782	ASP
1	D	2870[A]	GLU
1	D	2870[B]	GLU
1	D	2937	VAL
1	D	3014	CYS
1	D	3078	ARG
1	D	3131	TYR
1	D	3155	ASP
1	D	3161	VAL
1	D	3181	THR
1	D	3225	ARG
1	D	3232	LEU
1	D	3367	LYS
1	D	3422[A]	HIS
1	D	3422[B]	HIS
1	D	3446	SER
1	D	3531	ASP
1	D	3543	LYS
1	D	3558	HIS
1	D	3672	ARG
1	D	3753	PHE
1	D	3790	THR
1	D	3859	VAL
1	D	3934	TYR
1	D	3955	MET
1	D	4239	GLU
1	D	4662	ASN
1	D	4684	ASP
1	D	4786	ASP
1	D	4803	HIS

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Mol	Chain	Res	Type
1	D	4807	PHE
1	D	4913	ARG
1	C	58	VAL
1	C	134	ASP
1	C	150	MET
1	C	172	VAL
1	C	173	SER
1	C	243	ARG
1	C	246	TYR
1	C	312	THR
1	C	514	SER
1	C	649	PHE
1	C	730	VAL
1	C	850	ASP
1	C	881	LEU
1	C	999	ASP
1	C	1018	ASN
1	C	1022	VAL
1	C	1172	ASP
1	C	1212	ARG
1	C	1231[A]	GLN
1	C	1231[B]	GLN
1	C	1422	ASP
1	C	1463	ASN
1	C	1465	ASP
1	C	1485	SER
1	C	1508	ARG
1	C	1573	MET
1	C	1619	ARG
1	C	1676	LEU
1	C	1752	ARG
1	C	1812	LEU
1	C	2093	SER
1	C	2227	LYS
1	C	2233	CYS
1	C	2243	SER
1	C	2256	TYR
1	C	2267	MET
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2313	LEU
1	C	2342	ASN

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Mol	Chain	Res	Type
1	C	2369[A]	ARG
1	C	2369[B]	ARG
1	C	2442	LEU
1	C	2443	ILE
1	C	2461	VAL
1	C	2490	MET
1	C	2517	PHE
1	C	2577	ILE
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2634	ASN
1	C	2647	HIS
1	C	2667	THR
1	C	2683	PHE
1	C	2747	ILE
1	C	2782	ASP
1	C	2870[A]	GLU
1	C	2870[B]	GLU
1	C	2937	VAL
1	C	3078	ARG
1	C	3131	TYR
1	C	3155	ASP
1	C	3161	VAL
1	C	3181	THR
1	C	3225	ARG
1	C	3232	LEU
1	C	3367	LYS
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3446	SER
1	C	3543	LYS
1	C	3558	HIS
1	C	3672	ARG
1	C	3753	PHE
1	C	3790	THR
1	C	3859	VAL
1	C	3934	TYR
1	C	3955	MET
1	C	4104	THR
1	C	4239	GLU
1	C	4662	ASN
1	C	4684	ASP

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Mol	Chain	Res	Type
1	C	4786	ASP
1	C	4803	HIS
1	C	4807	PHE
1	C	4913	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (275) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	138	GLN
1	A	218	HIS
1	A	308	HIS
1	A	479	GLN
1	A	597	HIS
1	A	634	GLN
1	A	658	GLN
1	A	681	HIS
1	A	900	ASN
1	A	909	ASN
1	A	919	ASN
1	A	991	ASN
1	A	1003	GLN
1	A	1065	ASN
1	A	1066	GLN
1	A	1206	GLN
1	A	1252	HIS
1	A	1254	HIS
1	A	1505	GLN
1	A	1506	GLN
1	A	1586	ASN
1	A	1631	GLN
1	A	1702	HIS
1	A	1719	HIS
1	A	1837	GLN
1	A	1861	GLN
1	A	2003	GLN
1	A	2005	GLN
1	A	2007	ASN
1	A	2029	GLN
1	A	2107	GLN
1	A	2176	ASN
1	A	2180	GLN
1	A	2260	ASN

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Mol	Chain	Res	Type
1	A	2417	HIS
1	A	2444	GLN
1	A	2514	ASN
1	A	2599	GLN
1	A	2646	ASN
1	A	2663	ASN
1	A	2756	ASN
1	A	2774	ASN
1	A	2881	ASN
1	A	2884	ASN
1	A	2902	HIS
1	A	3008	GLN
1	A	3146	HIS
1	A	3149	GLN
1	A	3180	ASN
1	A	3211	ASN
1	A	3234	ASN
1	A	3318	ASN
1	A	3325	ASN
1	A	3555	ASN
1	A	3734	HIS
1	A	3837	GLN
1	A	3860	ASN
1	A	3870	ASN
1	A	3927	GLN
1	A	3970	GLN
1	A	3998	HIS
1	A	4009	GLN
1	A	4037	ASN
1	A	4078	GLN
1	A	4162	ASN
1	A	4216	GLN
1	A	4728	HIS
1	A	4754	ASN
1	A	4978	HIS
2	E	53	GLN
2	E	70	GLN
2	G	25	HIS
2	G	53	GLN
2	F	87	HIS
1	B	138	GLN
1	B	218	HIS

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Mol	Chain	Res	Type
1	B	308	HIS
1	B	479	GLN
1	B	495	ASN
1	B	597	HIS
1	B	634	GLN
1	B	658	GLN
1	B	681	HIS
1	B	919	ASN
1	B	963	ASN
1	B	991	ASN
1	B	1003	GLN
1	B	1201	HIS
1	B	1206	GLN
1	B	1252	HIS
1	B	1254	HIS
1	B	1505	GLN
1	B	1506	GLN
1	B	1586	ASN
1	B	1631	GLN
1	B	1702	HIS
1	B	1719	HIS
1	B	1837	GLN
1	B	2003	GLN
1	B	2005	GLN
1	B	2007	ASN
1	B	2029	GLN
1	B	2107	GLN
1	B	2176	ASN
1	B	2180	GLN
1	B	2260	ASN
1	B	2417	HIS
1	B	2444	GLN
1	B	2514	ASN
1	B	2599	GLN
1	B	2646	ASN
1	B	2663	ASN
1	B	2756	ASN
1	B	2773	ASN
1	B	2774	ASN
1	B	2877	GLN
1	B	2881	ASN
1	B	2884	ASN

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Mol	Chain	Res	Type
1	B	2902	HIS
1	B	3008	GLN
1	B	3052	HIS
1	B	3146	HIS
1	B	3149	GLN
1	B	3180	ASN
1	B	3211	ASN
1	B	3234	ASN
1	B	3318	ASN
1	B	3325	ASN
1	B	3555	ASN
1	B	3734	HIS
1	B	3837	GLN
1	B	3860	ASN
1	B	3870	ASN
1	B	3927	GLN
1	B	3970	GLN
1	B	3998	HIS
1	B	4009	GLN
1	B	4037	ASN
1	B	4078	GLN
1	B	4156	HIS
1	B	4162	ASN
1	B	4216	GLN
1	B	4707	ASN
1	B	4728	HIS
1	B	4754	ASN
1	B	4978	HIS
1	B	5031	GLN
1	D	138	GLN
1	D	308	HIS
1	D	479	GLN
1	D	495	ASN
1	D	597	HIS
1	D	634	GLN
1	D	681	HIS
1	D	919	ASN
1	D	963	ASN
1	D	991	ASN
1	D	1003	GLN
1	D	1206	GLN
1	D	1252	HIS

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Mol	Chain	Res	Type
1	D	1254	HIS
1	D	1505	GLN
1	D	1506	GLN
1	D	1586	ASN
1	D	1631	GLN
1	D	1702	HIS
1	D	1719	HIS
1	D	1861	GLN
1	D	2003	GLN
1	D	2005	GLN
1	D	2007	ASN
1	D	2029	GLN
1	D	2107	GLN
1	D	2176	ASN
1	D	2180	GLN
1	D	2260	ASN
1	D	2417	HIS
1	D	2444	GLN
1	D	2514	ASN
1	D	2599	GLN
1	D	2646	ASN
1	D	2756	ASN
1	D	2881	ASN
1	D	2884	ASN
1	D	2902	HIS
1	D	3008	GLN
1	D	3052	HIS
1	D	3146	HIS
1	D	3149	GLN
1	D	3180	ASN
1	D	3211	ASN
1	D	3234	ASN
1	D	3318	ASN
1	D	3555	ASN
1	D	3734	HIS
1	D	3837	GLN
1	D	3860	ASN
1	D	3870	ASN
1	D	3927	GLN
1	D	3970	GLN
1	D	3998	HIS
1	D	4037	ASN

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Mol	Chain	Res	Type
1	D	4078	GLN
1	D	4156	HIS
1	D	4162	ASN
1	D	4216	GLN
1	D	4707	ASN
1	D	4728	HIS
1	D	4978	HIS
1	C	138	GLN
1	C	218	HIS
1	C	308	HIS
1	C	479	GLN
1	C	597	HIS
1	C	634	GLN
1	C	658	GLN
1	C	681	HIS
1	C	909	ASN
1	C	919	ASN
1	C	963	ASN
1	C	991	ASN
1	C	1003	GLN
1	C	1206	GLN
1	C	1252	HIS
1	C	1254	HIS
1	C	1505	GLN
1	C	1506	GLN
1	C	1586	ASN
1	C	1631	GLN
1	C	1702	HIS
1	C	1719	HIS
1	C	1837	GLN
1	C	2003	GLN
1	C	2005	GLN
1	C	2007	ASN
1	C	2029	GLN
1	C	2107	GLN
1	C	2176	ASN
1	C	2180	GLN
1	C	2260	ASN
1	C	2417	HIS
1	C	2444	GLN
1	C	2514	ASN
1	C	2599	GLN

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Mol	Chain	Res	Type
1	C	2646	ASN
1	C	2663	ASN
1	C	2756	ASN
1	C	2773	ASN
1	C	2774	ASN
1	C	2881	ASN
1	C	2884	ASN
1	C	2902	HIS
1	C	3008	GLN
1	C	3146	HIS
1	C	3149	GLN
1	C	3180	ASN
1	C	3211	ASN
1	C	3234	ASN
1	C	3318	ASN
1	C	3555	ASN
1	C	3734	HIS
1	C	3837	GLN
1	C	3860	ASN
1	C	3870	ASN
1	C	3927	GLN
1	C	3970	GLN
1	C	3998	HIS
1	C	4009	GLN
1	C	4037	ASN
1	C	4078	GLN
1	C	4156	HIS
1	C	4162	ASN
1	C	4216	GLN
1	C	4728	HIS
1	C	4978	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
6	A1BD2	C	5304	-	19,19,19	0.34	0	28,28,28	0.47	0
6	A1BD2	B	5304	-	19,19,19	0.34	0	28,28,28	0.49	0
3	ATP	D	5301	-	32,33,33	0.37	0	48,52,52	0.40	0
3	ATP	B	5301	-	32,33,33	0.37	0	48,52,52	0.40	0
3	ATP	A	5301	-	32,33,33	0.36	0	48,52,52	0.40	0
3	ATP	C	5301	-	32,33,33	0.37	0	48,52,52	0.40	0
6	A1BD2	A	5304	-	19,19,19	0.34	0	28,28,28	0.48	0
6	A1BD2	D	5304	-	19,19,19	0.34	0	28,28,28	0.48	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	A1BD2	C	5304	-	-	0/6/6/6	0/2/2/2
6	A1BD2	B	5304	-	-	0/6/6/6	0/2/2/2
3	ATP	D	5301	-	-	6/22/38/38	0/3/3/3
3	ATP	B	5301	-	-	6/22/38/38	0/3/3/3
3	ATP	A	5301	-	-	6/22/38/38	0/3/3/3
3	ATP	C	5301	-	-	6/22/38/38	0/3/3/3
6	A1BD2	A	5304	-	-	0/6/6/6	0/2/2/2
6	A1BD2	D	5304	-	-	0/6/6/6	0/2/2/2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (24) torsion outliers are listed below:

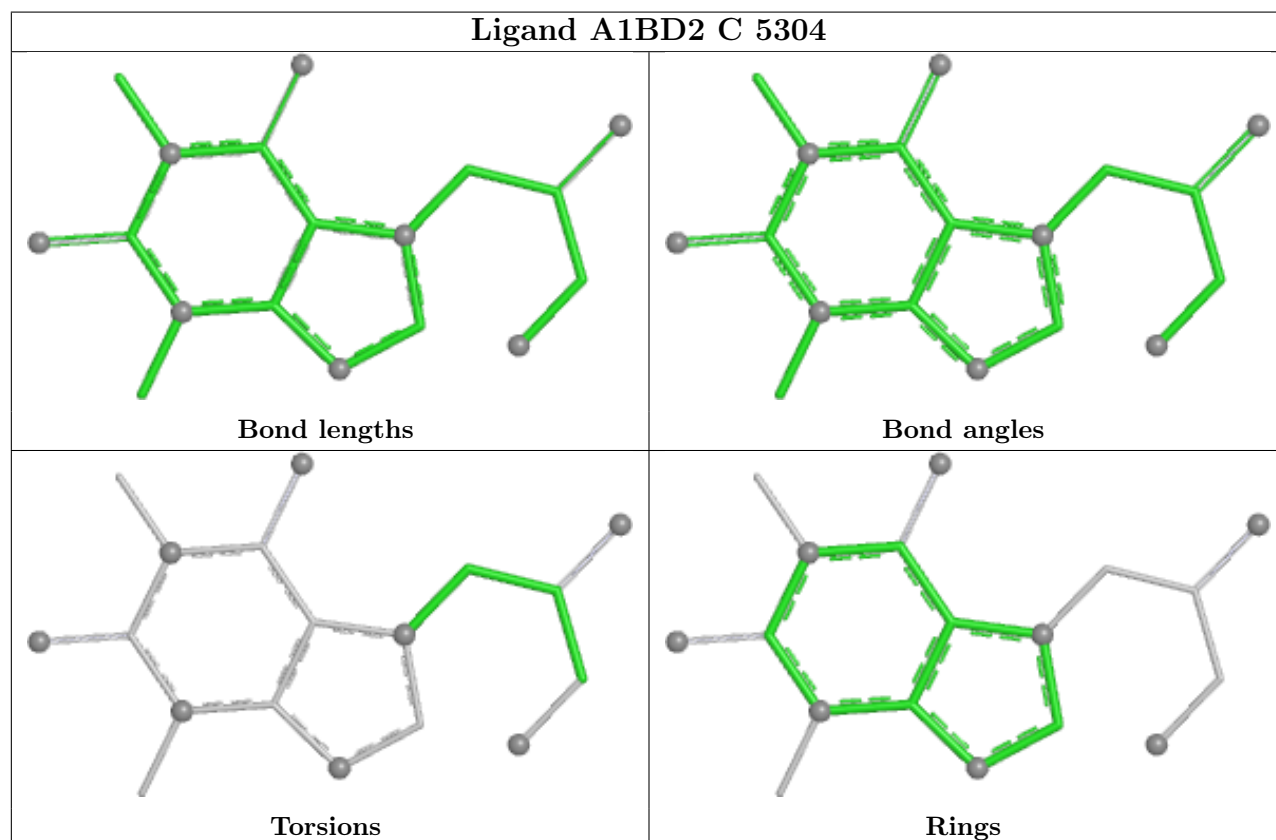
Mol	Chain	Res	Type	Atoms
3	D	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	C	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	PG-O3B-PB-O3A
3	B	5301	ATP	PG-O3B-PB-O3A
3	D	5301	ATP	PG-O3B-PB-O3A
3	C	5301	ATP	PG-O3B-PB-O3A
3	A	5301	ATP	PB-O3A-PA-O1A
3	A	5301	ATP	PB-O3A-PA-O2A
3	B	5301	ATP	PB-O3A-PA-O1A
3	B	5301	ATP	PB-O3A-PA-O2A
3	D	5301	ATP	PB-O3A-PA-O1A
3	D	5301	ATP	PB-O3A-PA-O2A
3	C	5301	ATP	PB-O3A-PA-O1A
3	C	5301	ATP	PB-O3A-PA-O2A
3	A	5301	ATP	O4'-C1'-N9-C8
3	B	5301	ATP	O4'-C1'-N9-C8
3	D	5301	ATP	O4'-C1'-N9-C8
3	C	5301	ATP	O4'-C1'-N9-C8
3	A	5301	ATP	PG-O3B-PB-O1B
3	B	5301	ATP	PG-O3B-PB-O1B
3	D	5301	ATP	PG-O3B-PB-O1B
3	C	5301	ATP	PG-O3B-PB-O1B

There are no ring outliers.

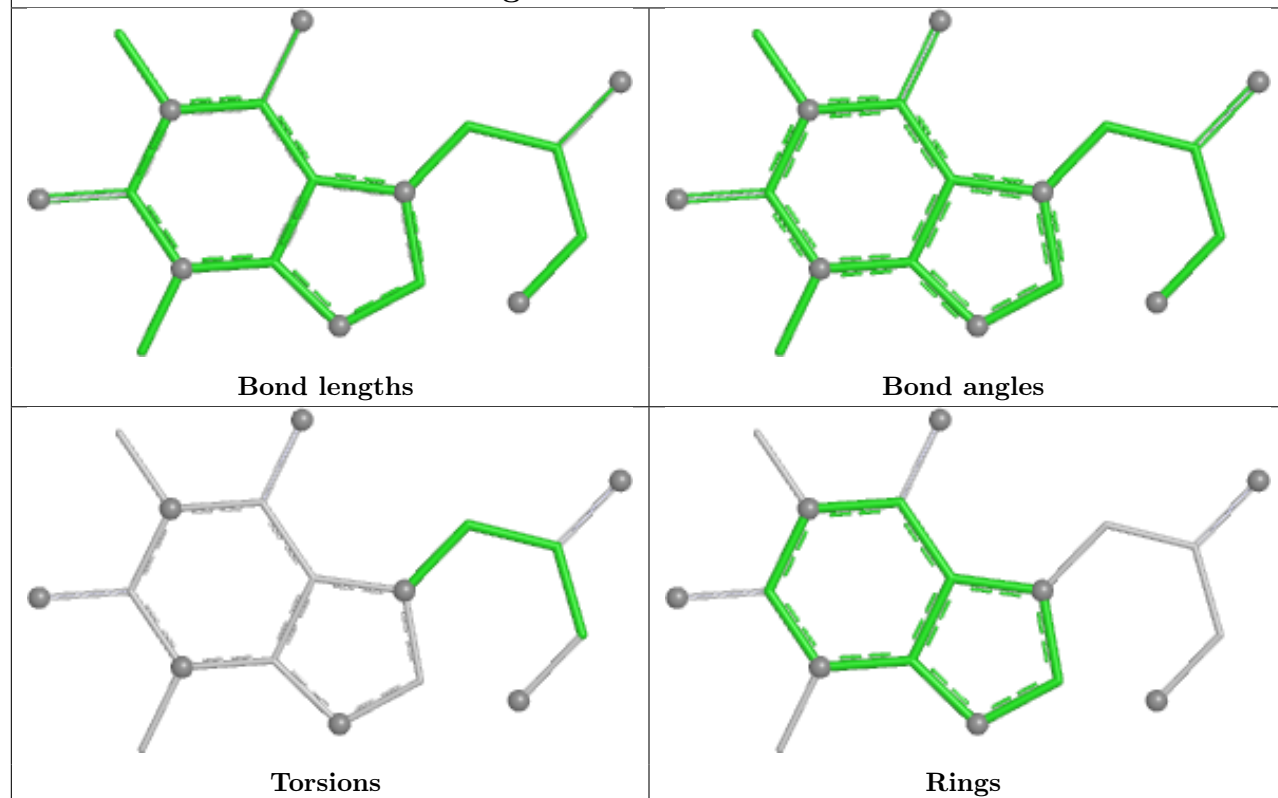
8 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	C	5304	A1BD2	1	0
6	B	5304	A1BD2	1	0
3	D	5301	ATP	2	0
3	B	5301	ATP	2	0
3	A	5301	ATP	1	0
3	C	5301	ATP	2	0
6	A	5304	A1BD2	1	0
6	D	5304	A1BD2	1	0

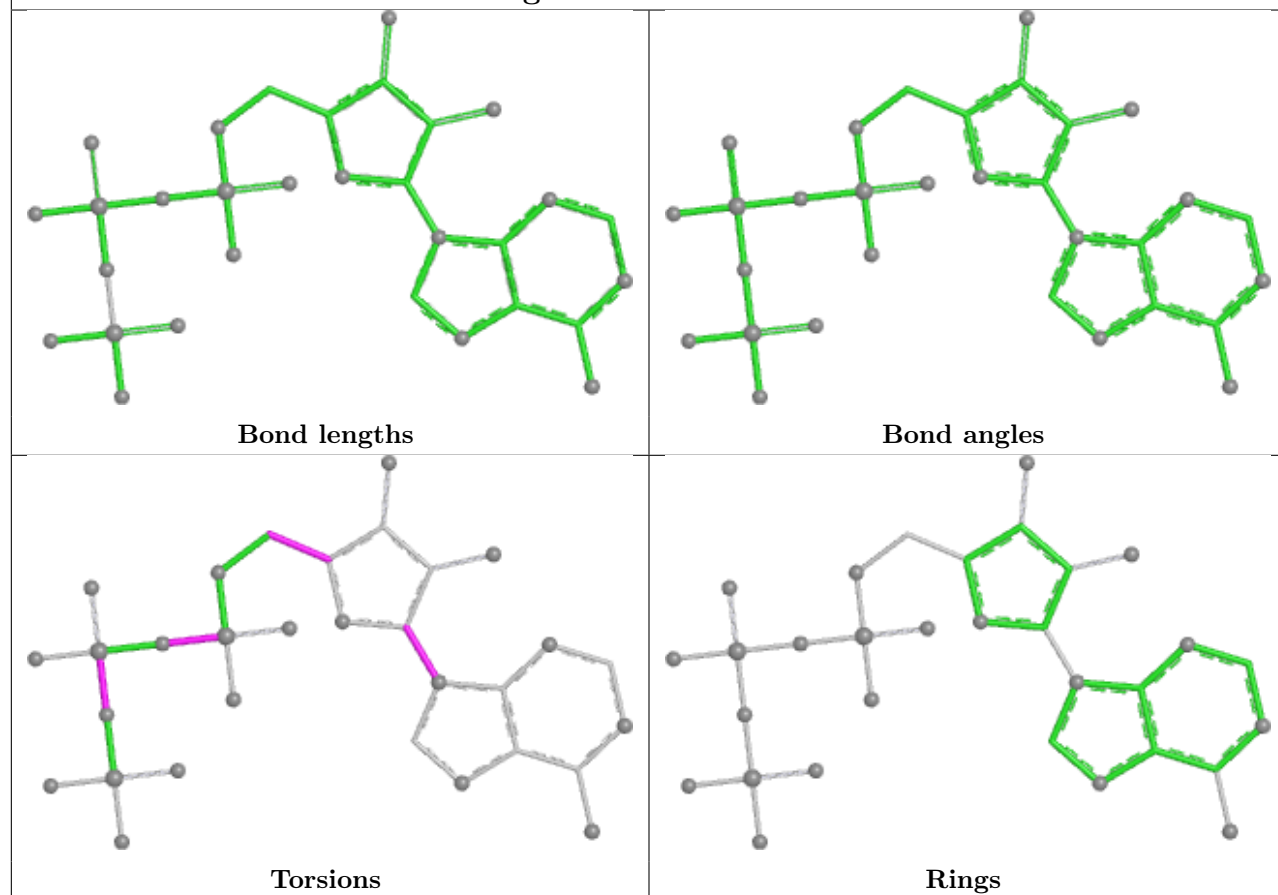
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

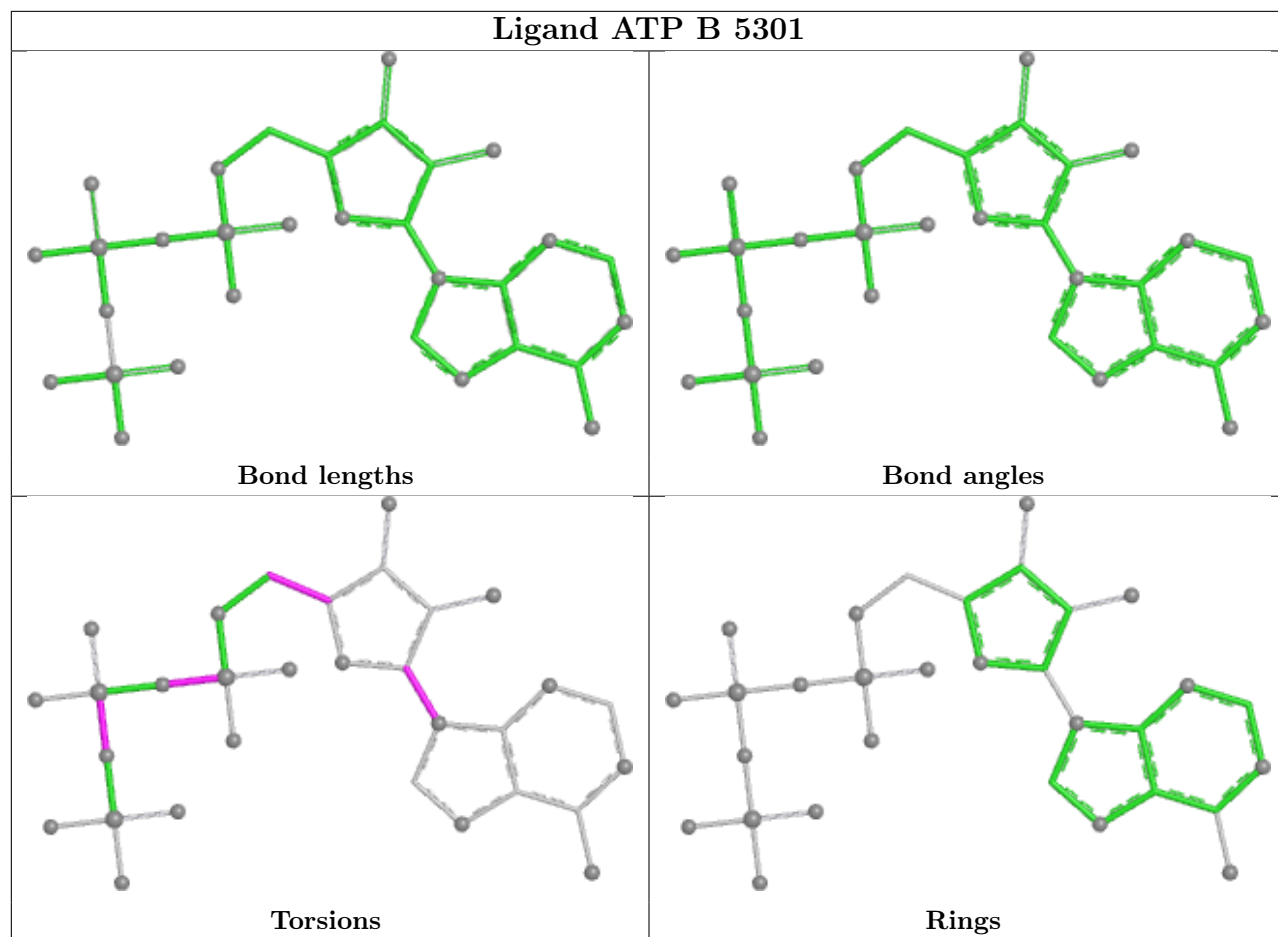


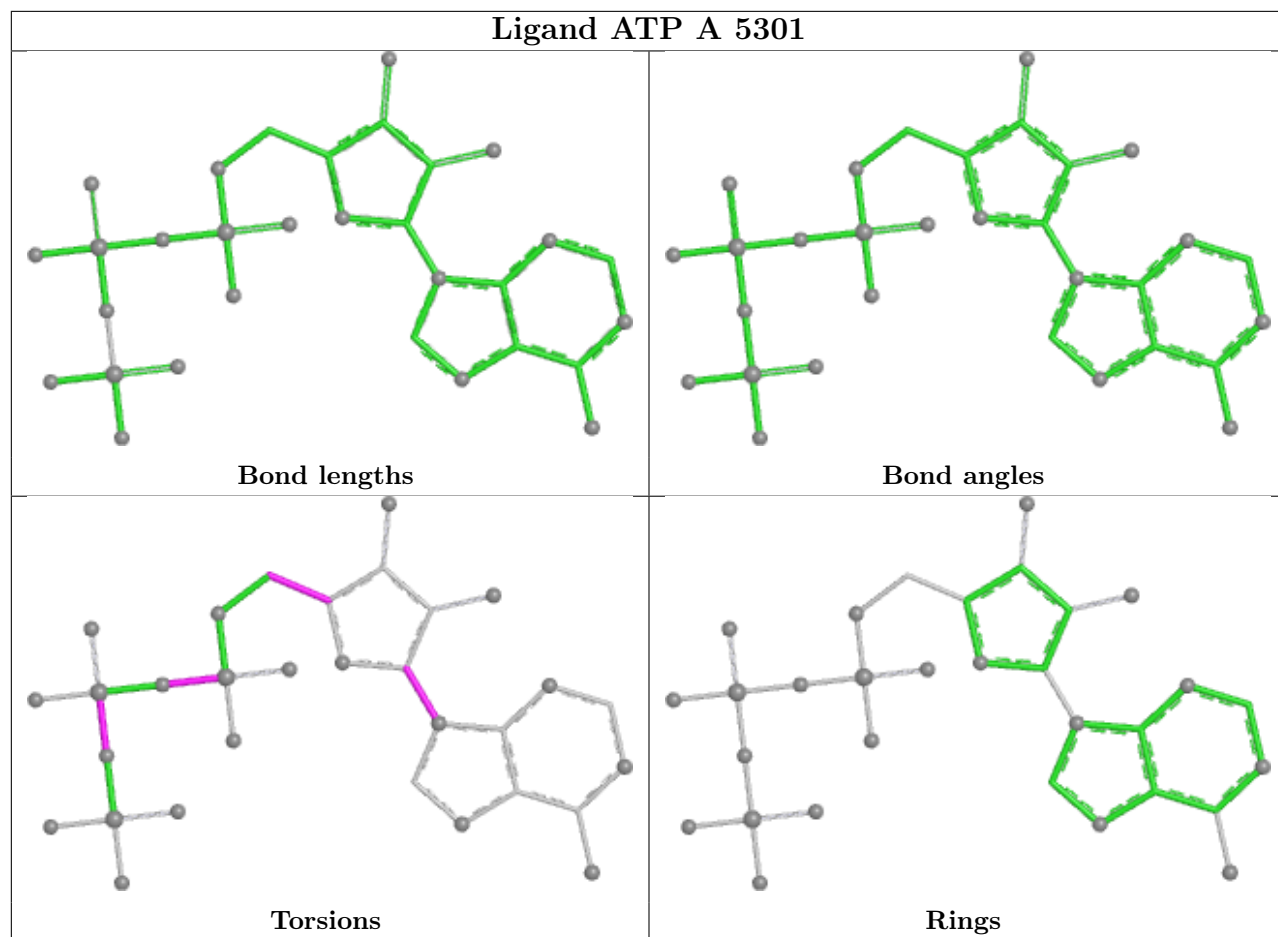
Ligand A1BD2 B 5304

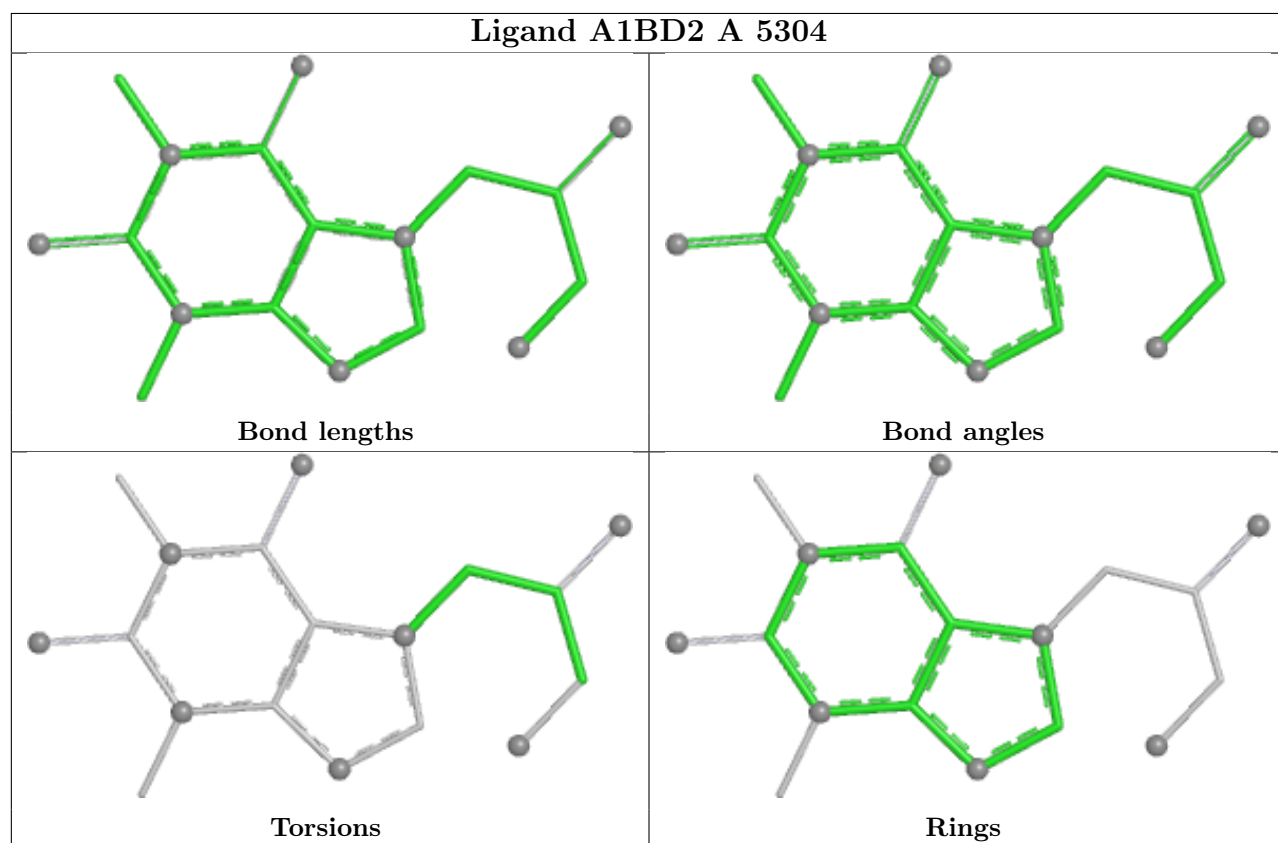
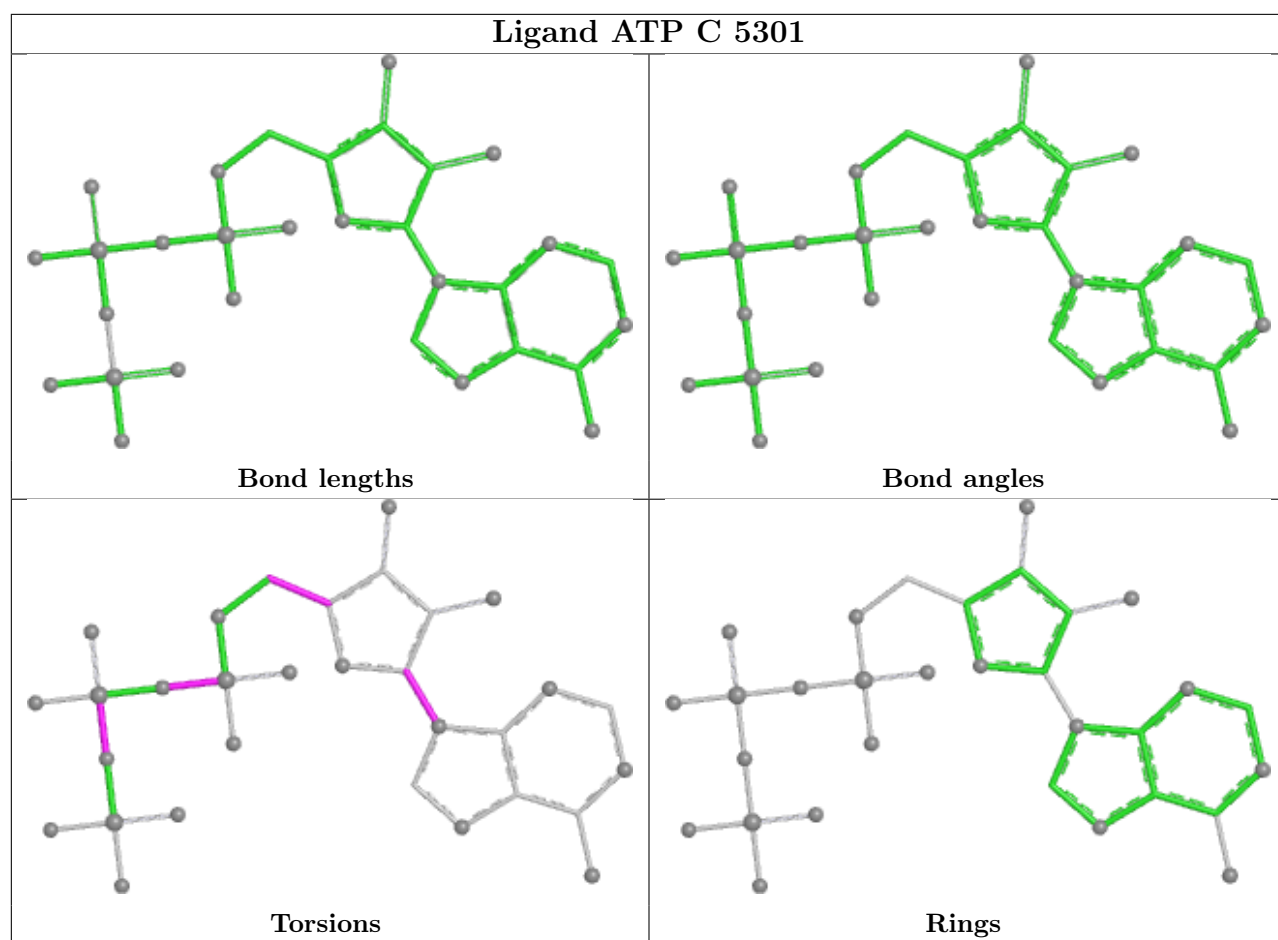


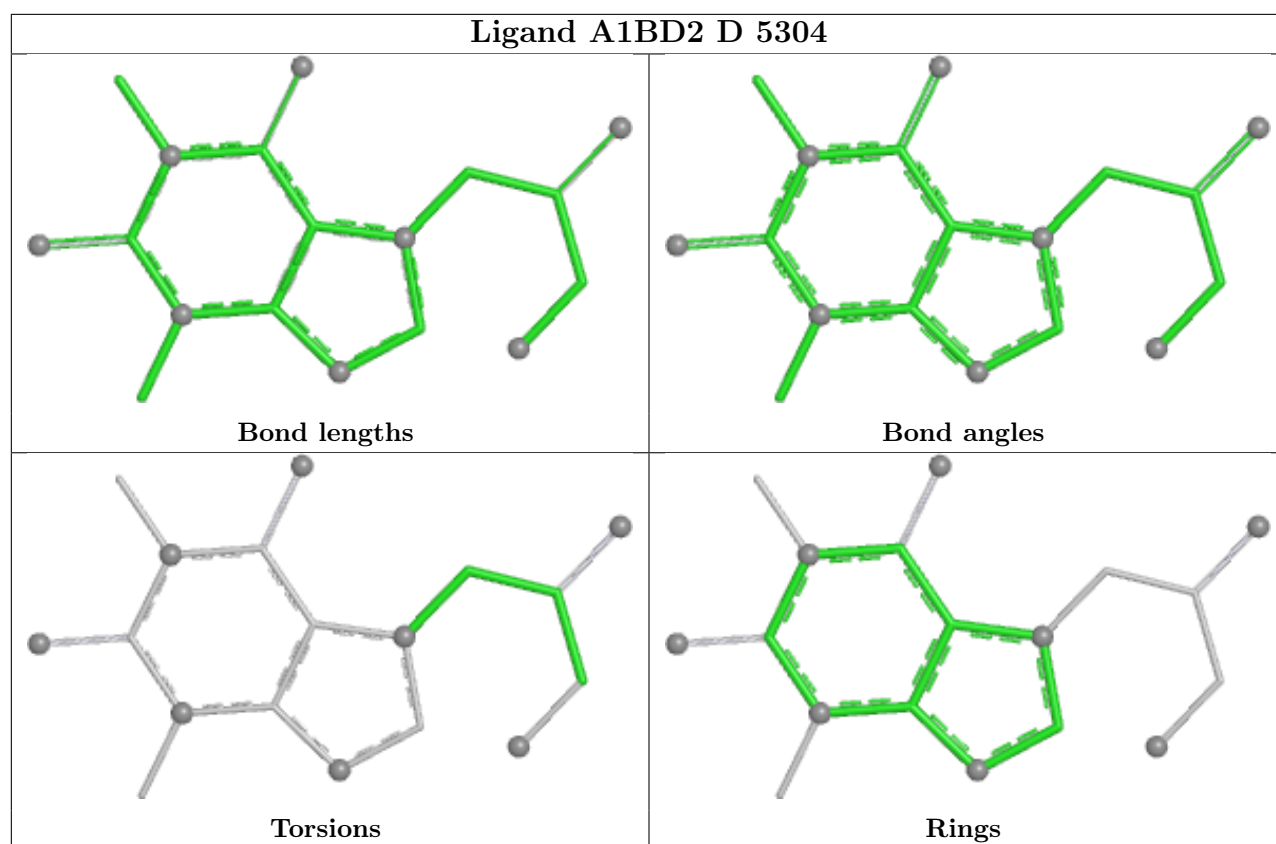
Ligand ATP D 5301











5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

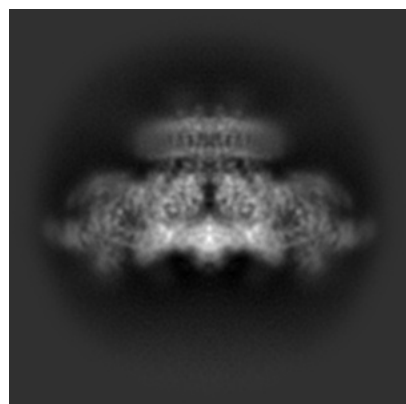
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47388. These allow visual inspection of the internal detail of the map and identification of artifacts.

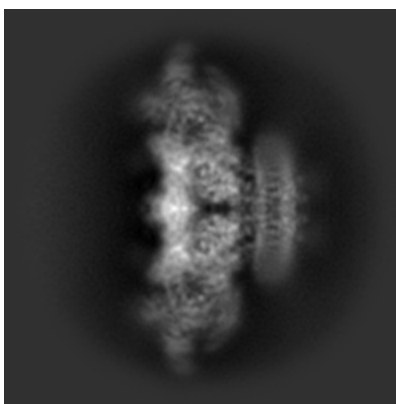
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

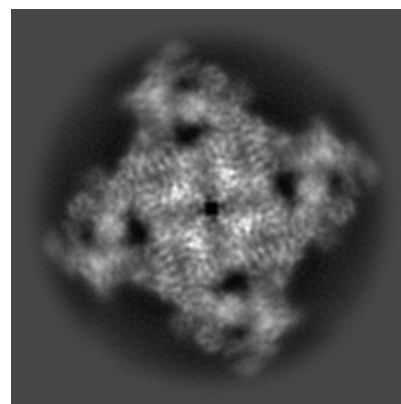
6.1.1 Primary map



X

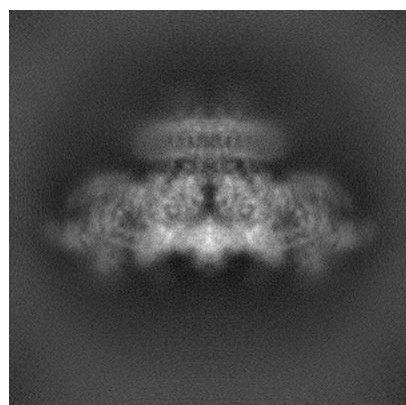


Y

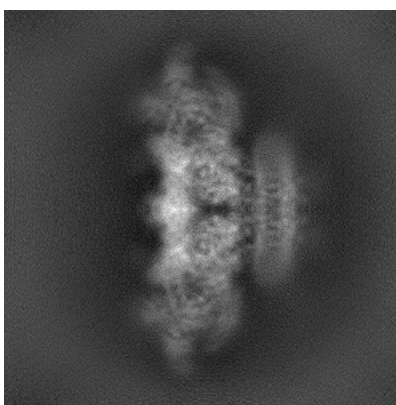


Z

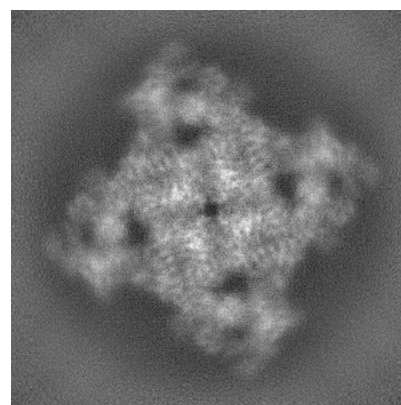
6.1.2 Raw map



X



Y

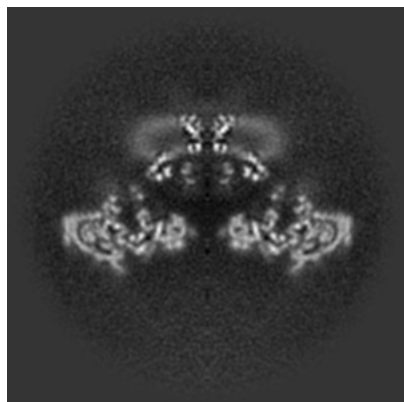


Z

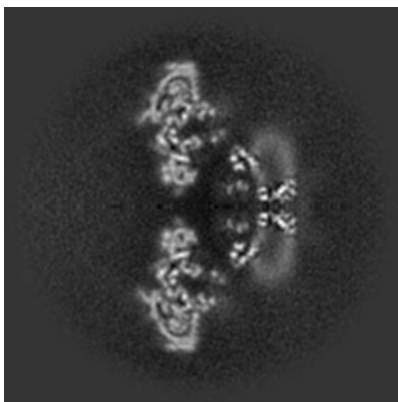
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

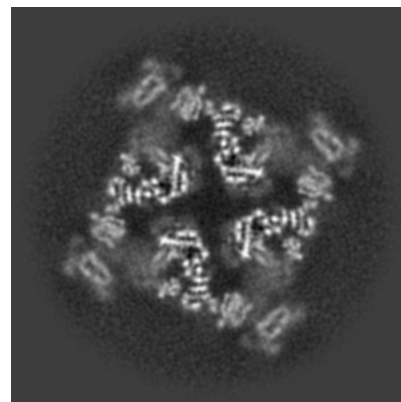
6.2.1 Primary map



X Index: 256

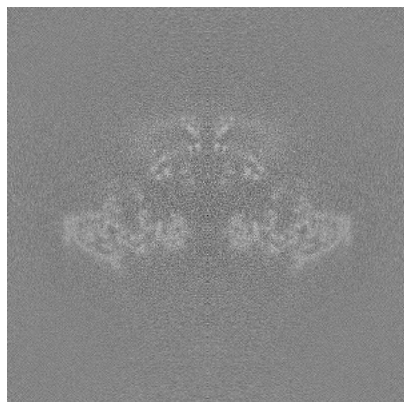


Y Index: 256

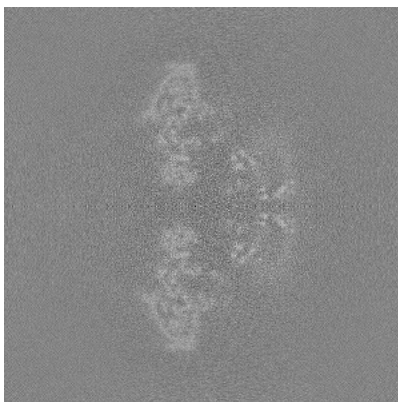


Z Index: 256

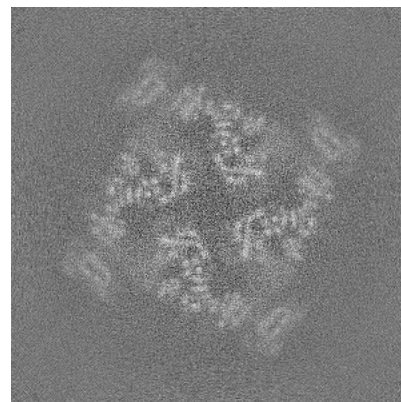
6.2.2 Raw map



X Index: 256



Y Index: 256

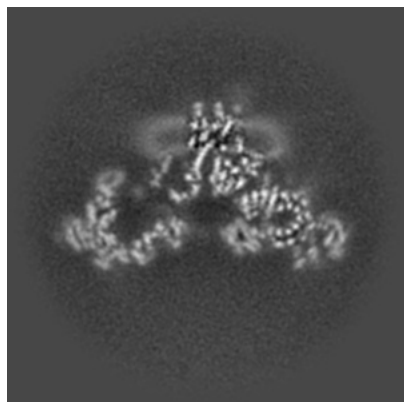


Z Index: 256

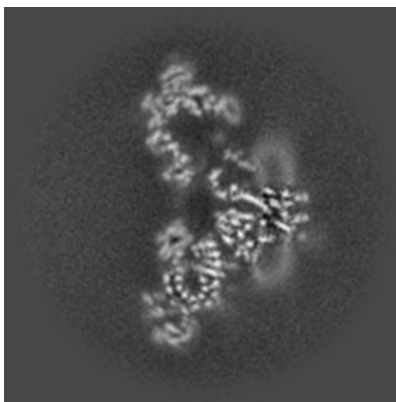
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

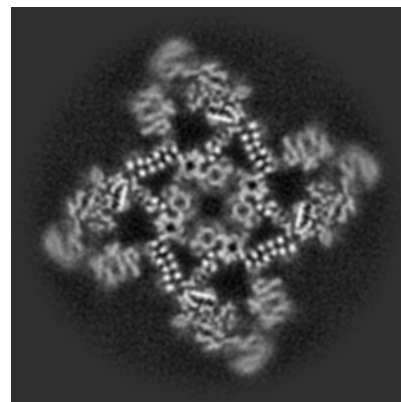
6.3.1 Primary map



X Index: 269

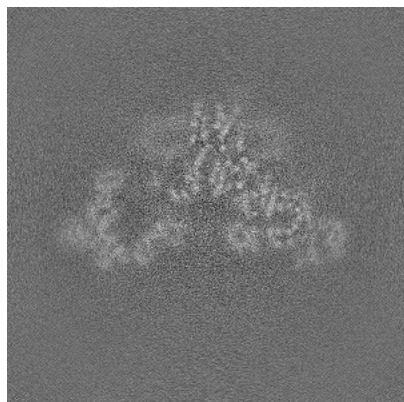


Y Index: 269

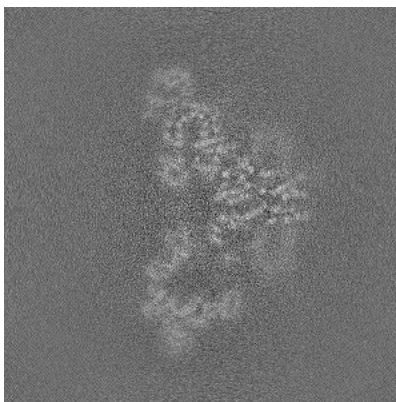


Z Index: 229

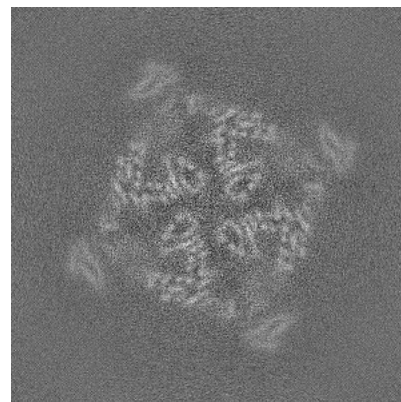
6.3.2 Raw map



X Index: 271



Y Index: 241

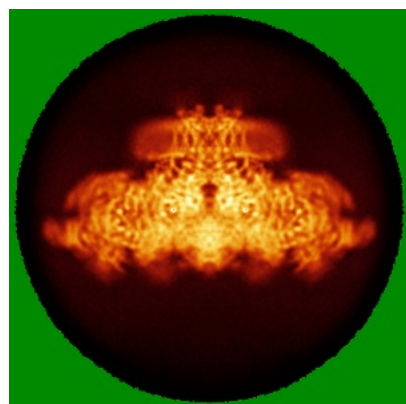


Z Index: 268

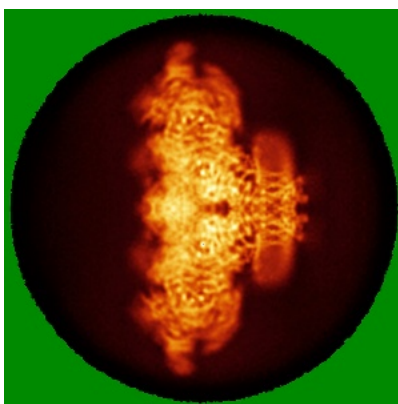
The images above show the largest variance slices of the map in three orthogonal directions.

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

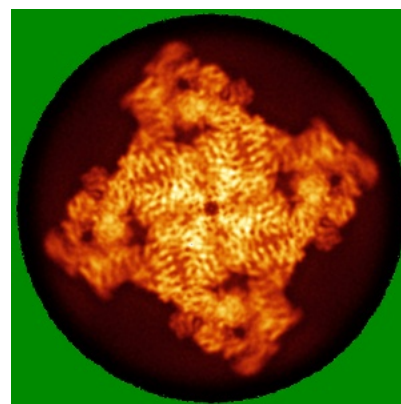
6.4.1 Primary map



X

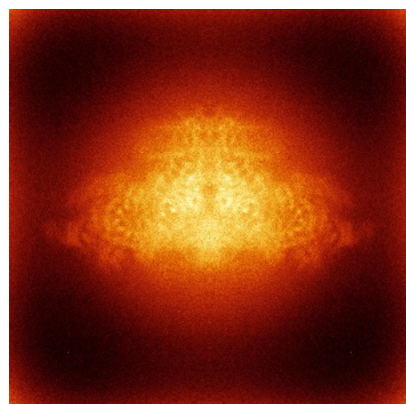


Y

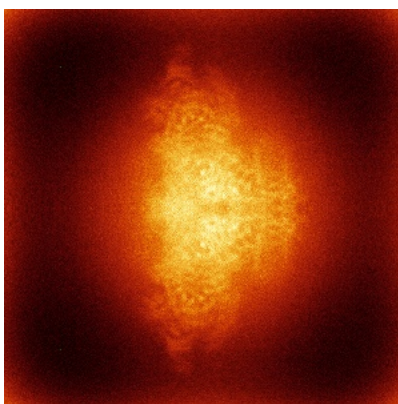


Z

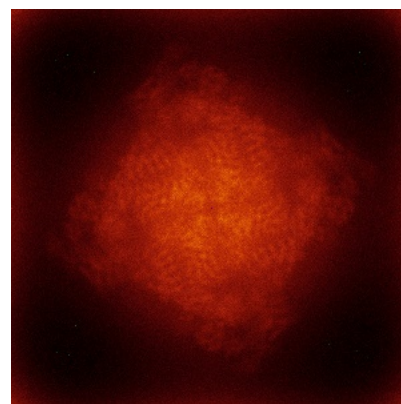
6.4.2 Raw map



X



Y

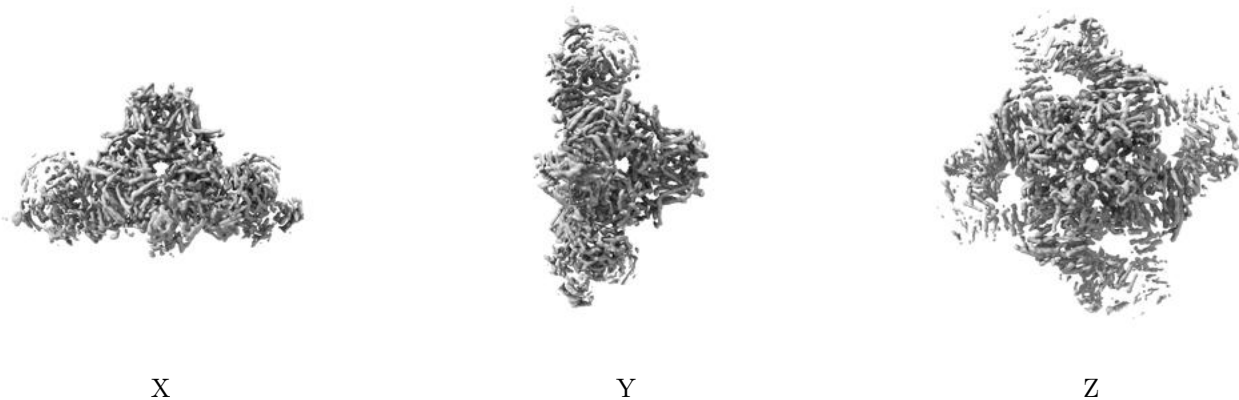


Z

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.

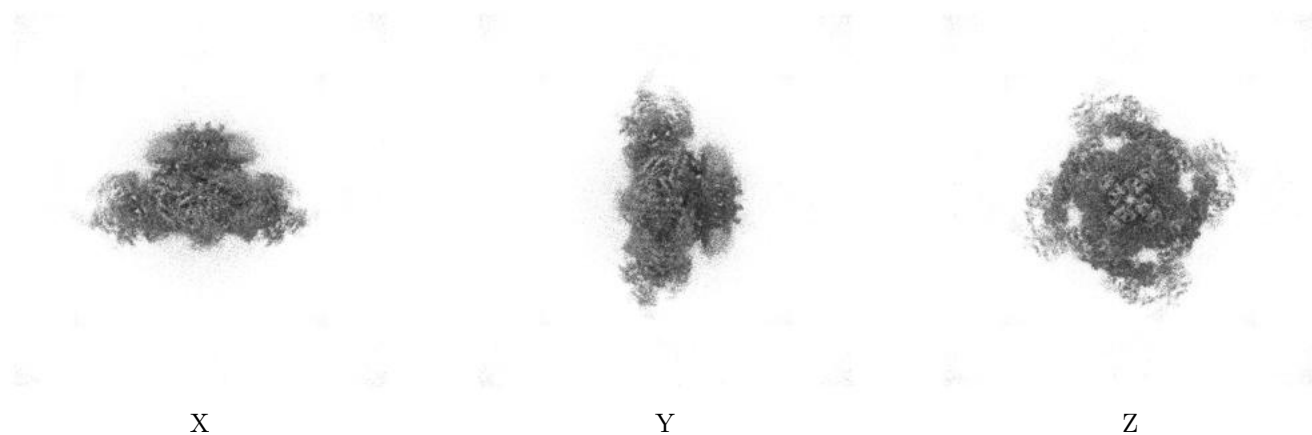
6.5 Orthogonal surface views [i](#)

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.

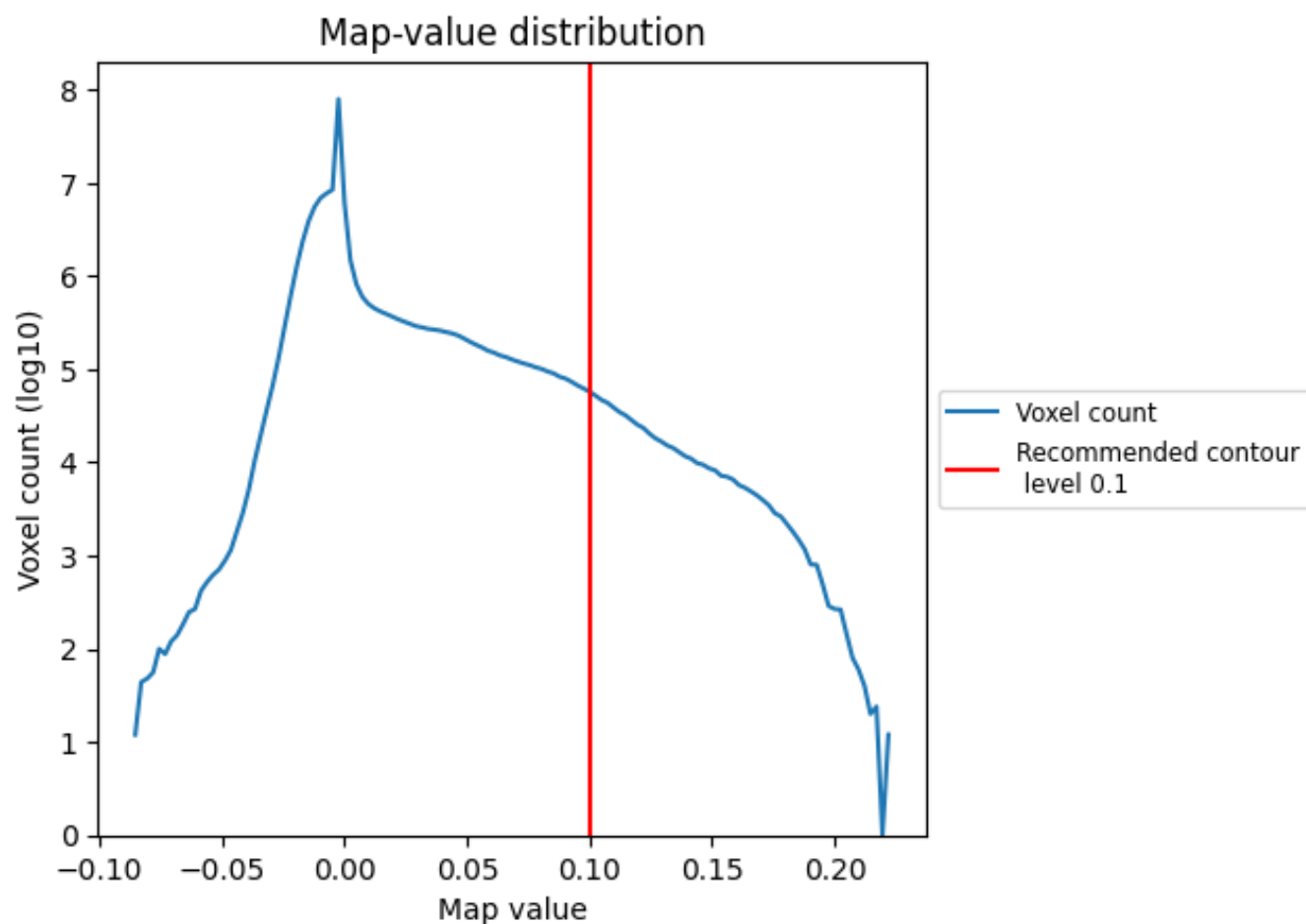
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

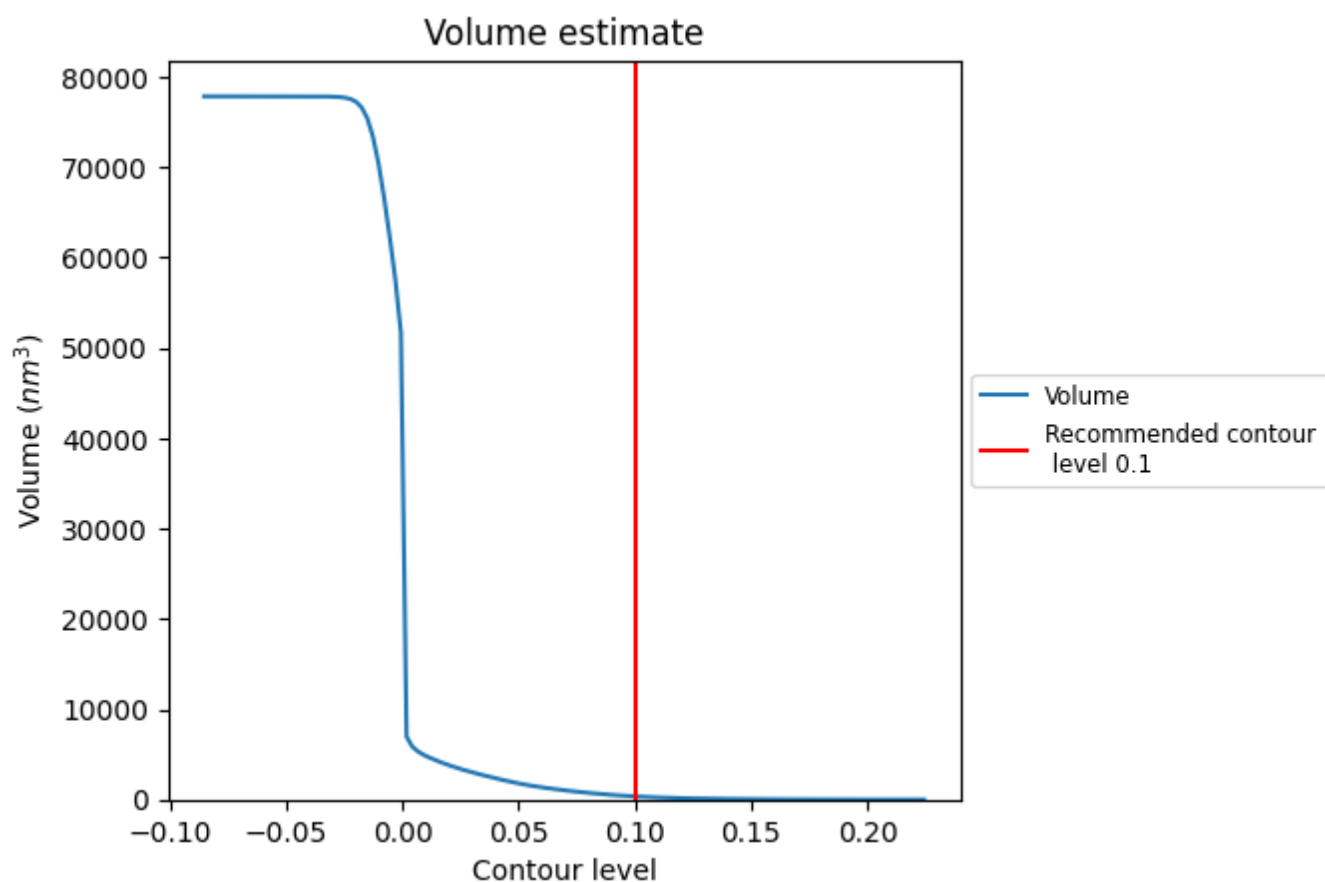
This section contains the results of statistical analysis of the map.

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.

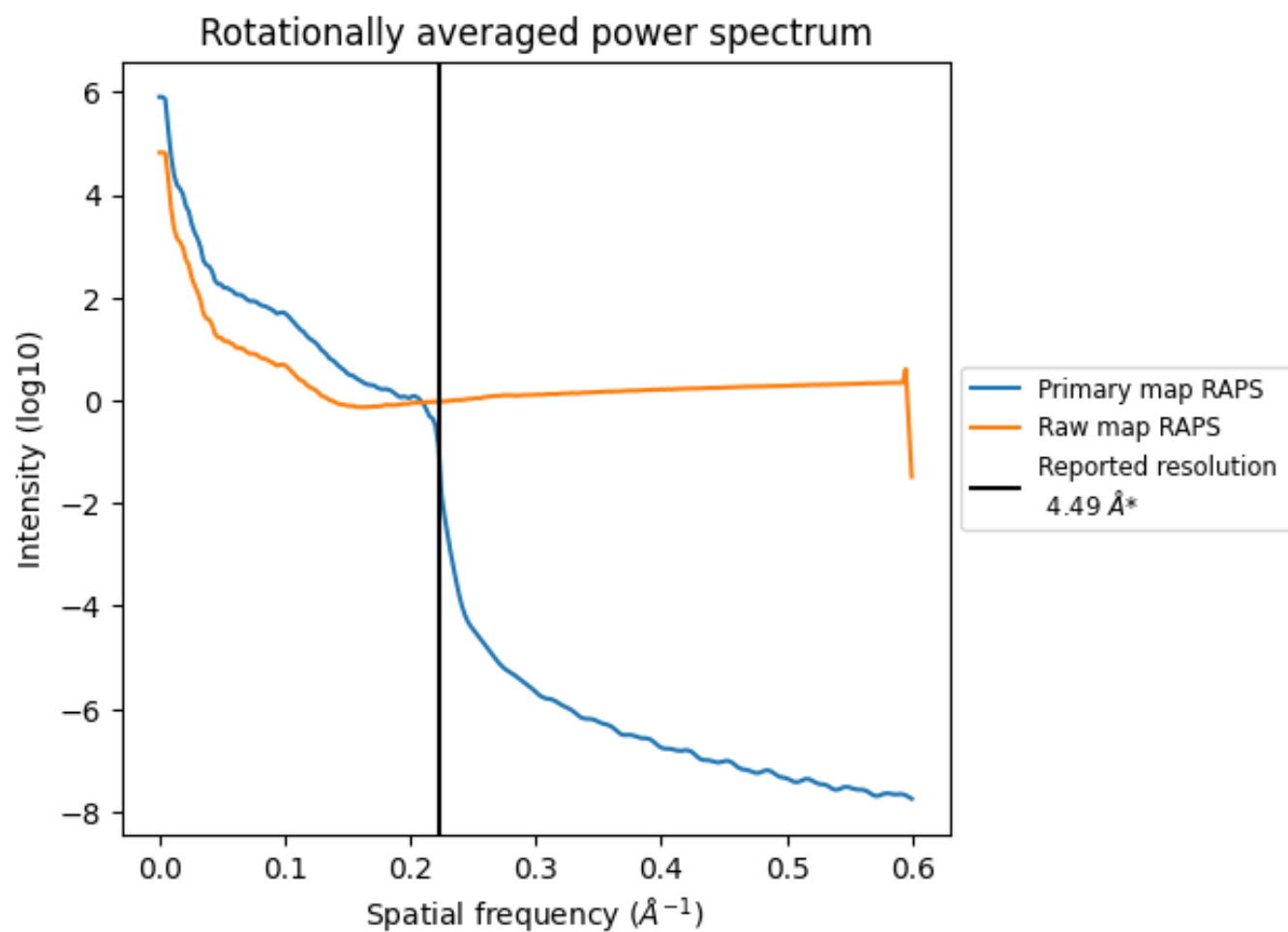
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 352 nm³; this corresponds to an approximate mass of 318 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 ⓘ

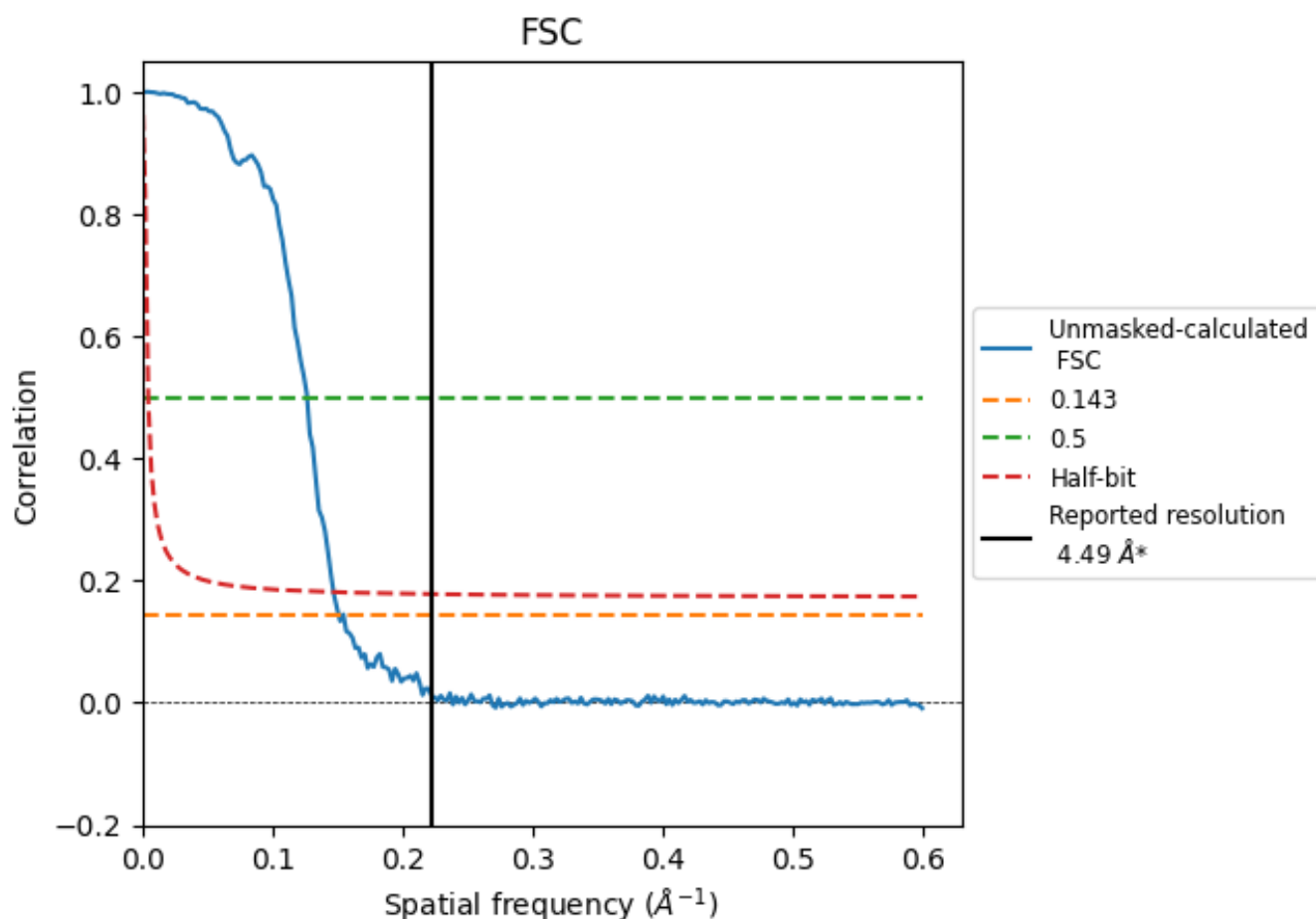


*Reported resolution corresponds to spatial frequency of 0.223 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.223 Å⁻¹

8.2 Resolution estimates [i](#)

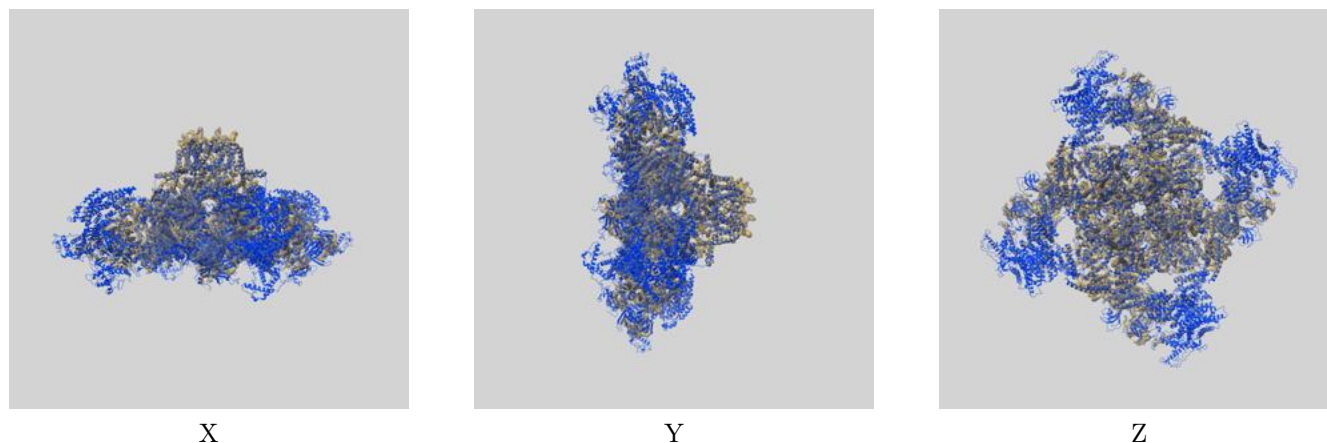
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.49	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	6.62	7.89	6.80

*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 6.62 differs from the reported value 4.49 by more than 10 %

9 Map-model fit [i](#)

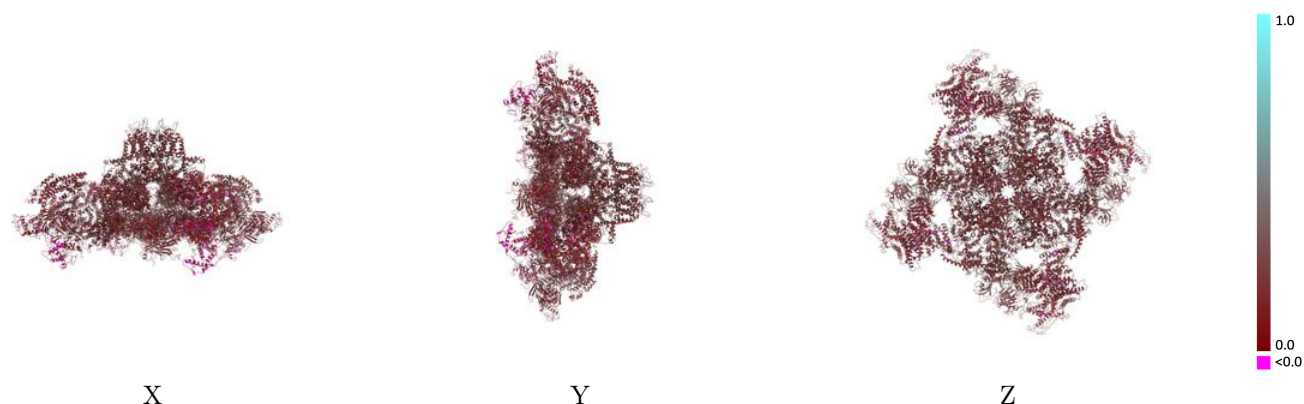
This section contains information regarding the fit between EMDB map EMD-47388 and PDB model 9E1B. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



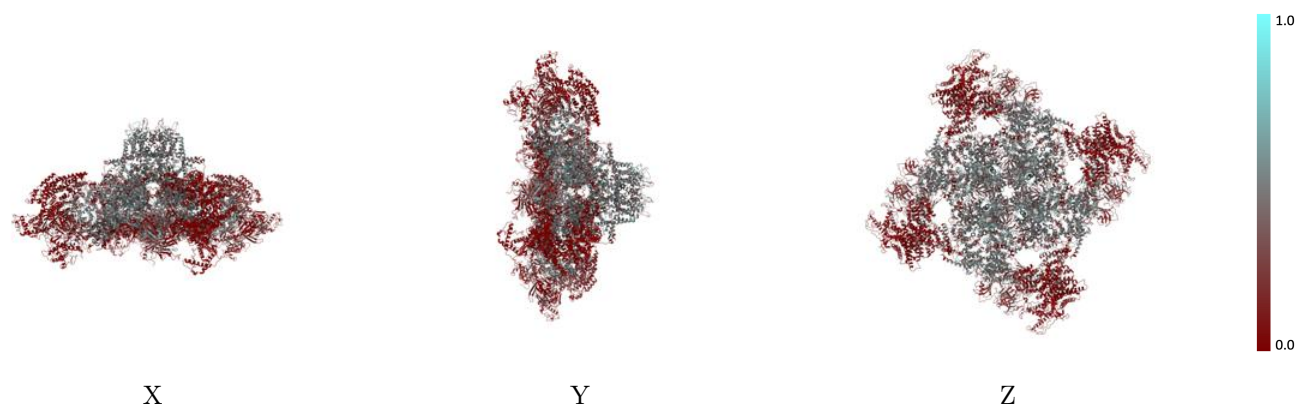
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



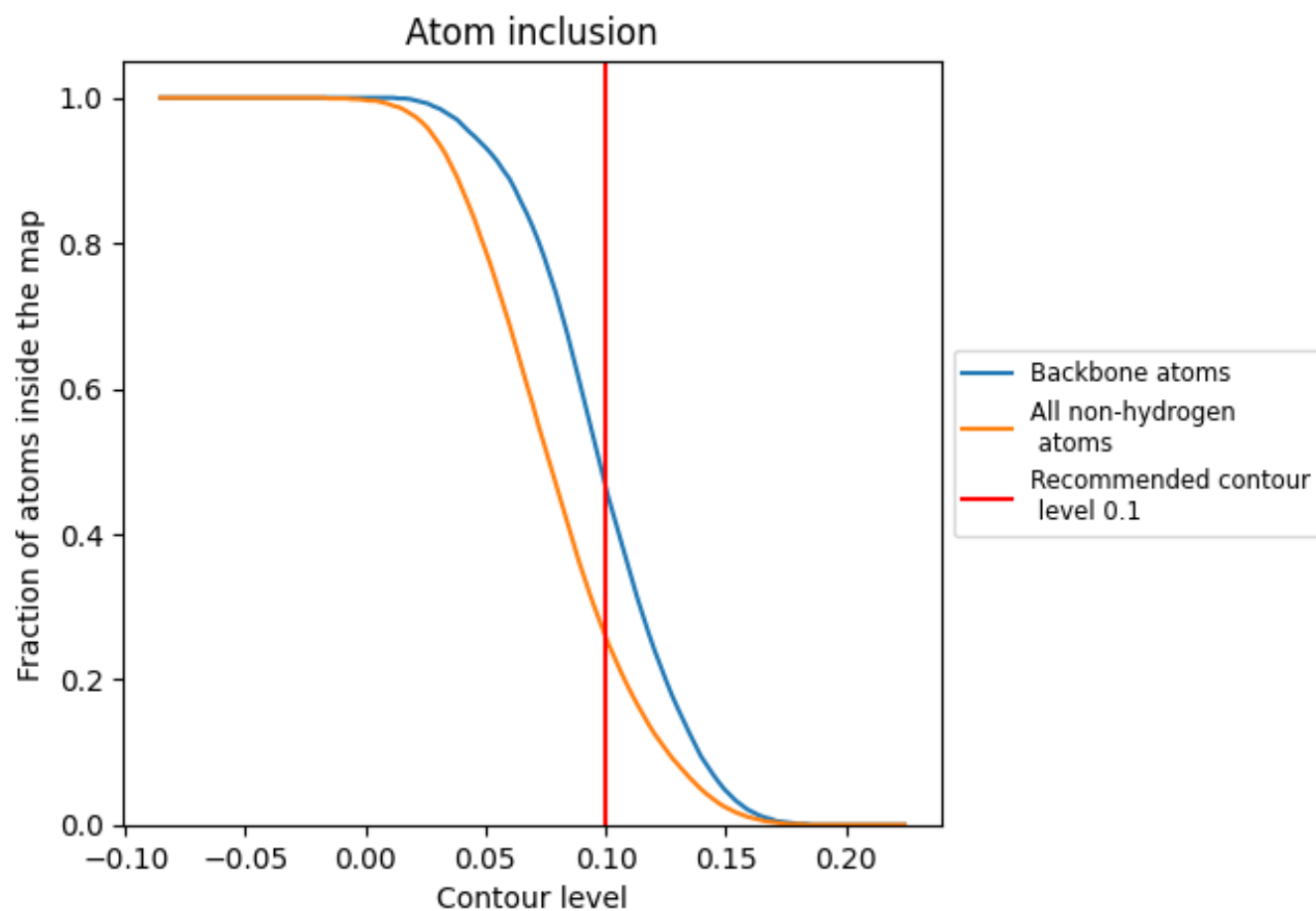
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 47% of all backbone atoms, 26% 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	0.2590	0.2100
A	0.2640	0.2100
B	0.2640	0.2090
C	0.2640	0.2090
D	0.2640	0.2090
E	0.0360	0.2600
F	0.0310	0.2560
G	0.0320	0.2630
H	0.0360	0.2580

1.0

0.0

<0.0