



Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 07:05 AM EST

PDB ID : 7M6A
EMDB ID : EMD-23692
Title : High resolution structure of the membrane embedded skeletal muscle ryanodine receptor
Authors : Melville, Z.; Kim, K.; Clarke, O.B.; Marks, A.R.
Deposited on : 2021-03-25
Resolution : 3.36 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

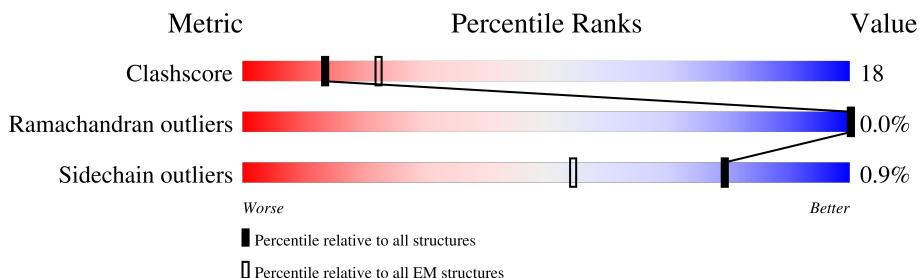
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.36 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	F	108	67% 29% ..
1	H	108	67% 30% ..
1	J	108	69% 28% ..
1	O	108	68% 28% ..
2	A	5037	11% 60% 25% 15%
2	B	5037	11% 60% 25% 15%
2	G	5037	11% 60% 25% 15%
2	I	5037	11% 60% 25% 15%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 140632 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 Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	F	107	818	516	144	154	4	0	0
1	H	107	818	516	144	154	4	0	0
1	J	107	818	516	144	154	4	0	0
1	O	107	818	516	144	154	4	0	0

- Molecule 2 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	A	4306	34293	21843	5903	6312	235	0	0
2	G	4306	34293	21843	5903	6312	235	0	0
2	B	4306	34293	21843	5903	6312	235	0	0
2	I	4306	34293	21843	5903	6312	235	0	0

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



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

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Ca	0
			1	1	
4	G	1	Total	Ca	0
			1	1	
4	B	1	Total	Ca	0
			1	1	
4	I	1	Total	Ca	0
			1	1	

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

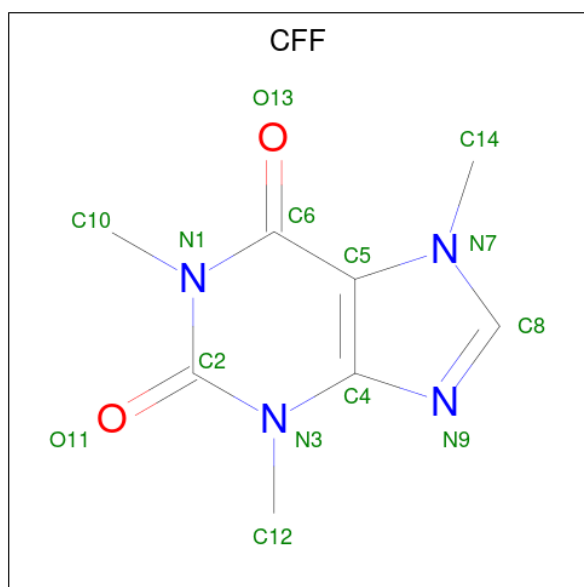
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
5	G	1	Total	Zn	0
			1	1	
5	B	1	Total	Zn	0
			1	1	
5	I	1	Total	Zn	0
			1	1	

- Molecule 6 is CAFFEINE (three-letter code: CFF) (formula: C₈H₁₀N₄O₂).

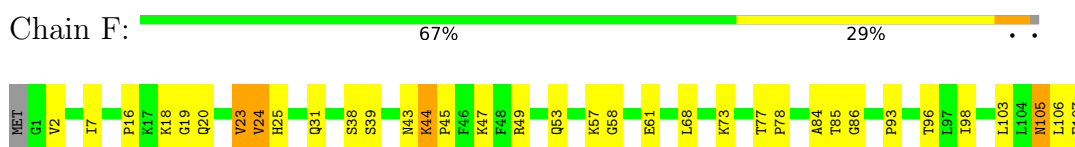


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	I	1	Total	C	N	O	0
			14	8	4	2	

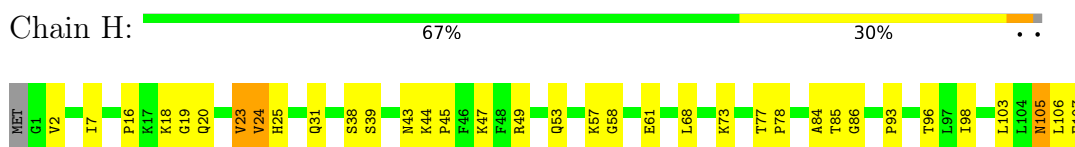
3 Residue-property plots [i](#)

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

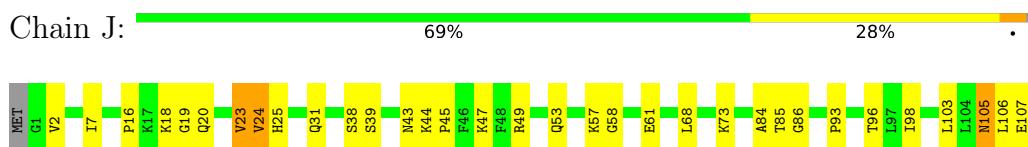
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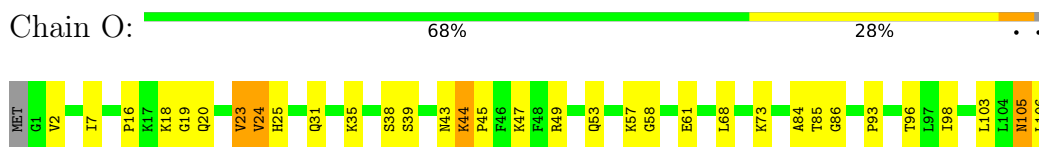
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



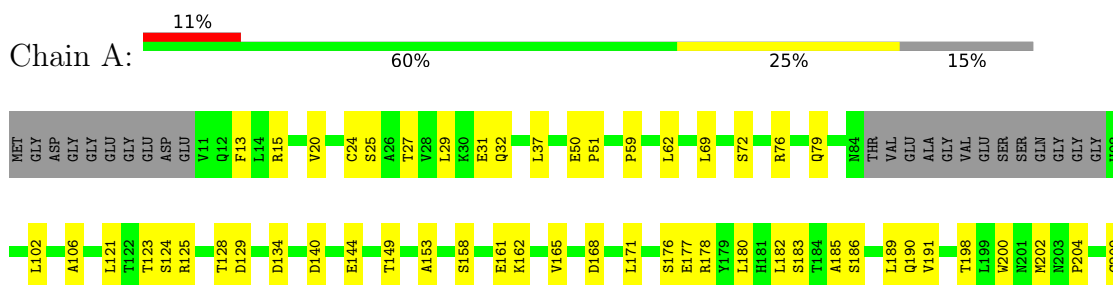
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

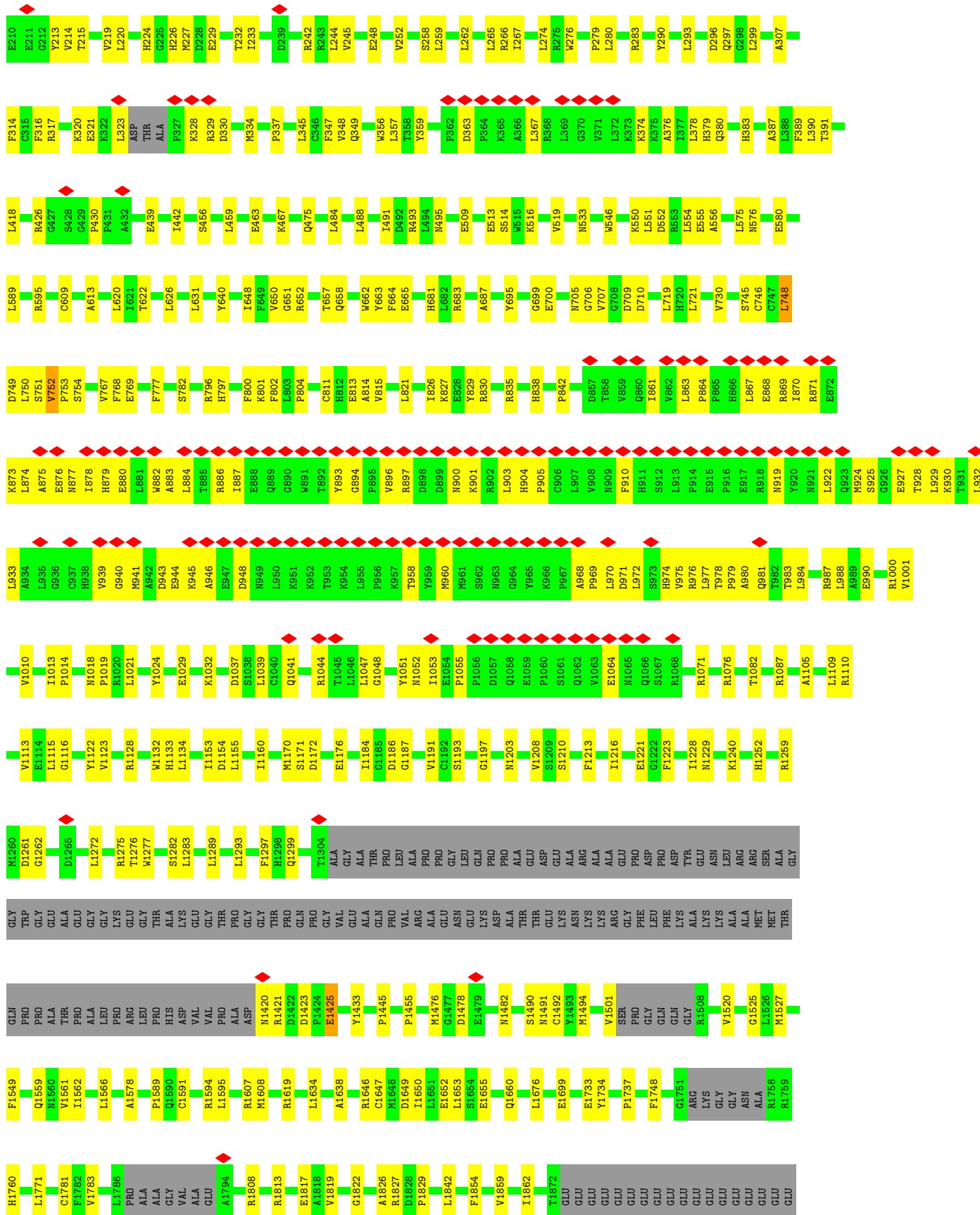


- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

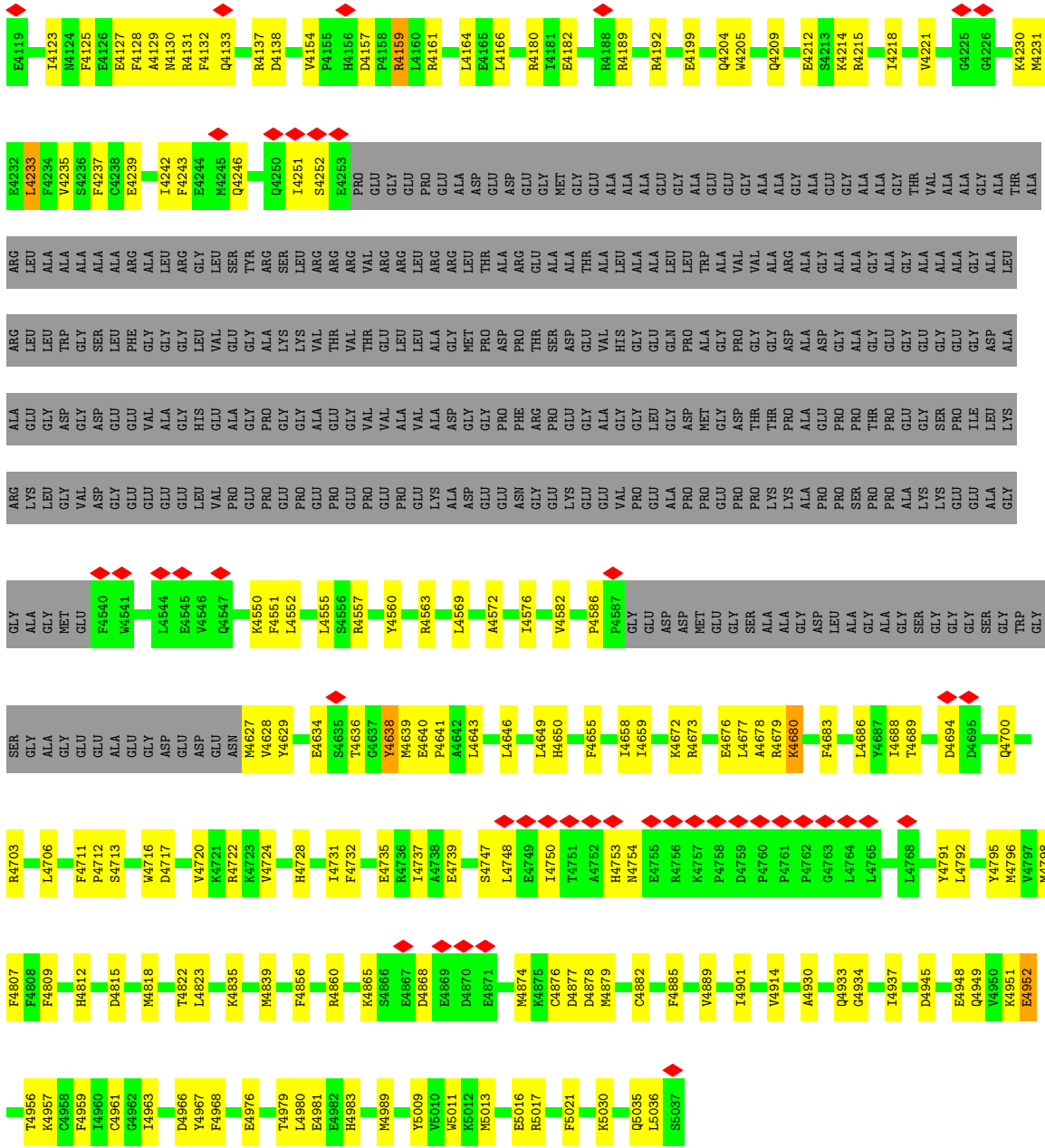


- Molecule 2: Ryanodine receptor 1

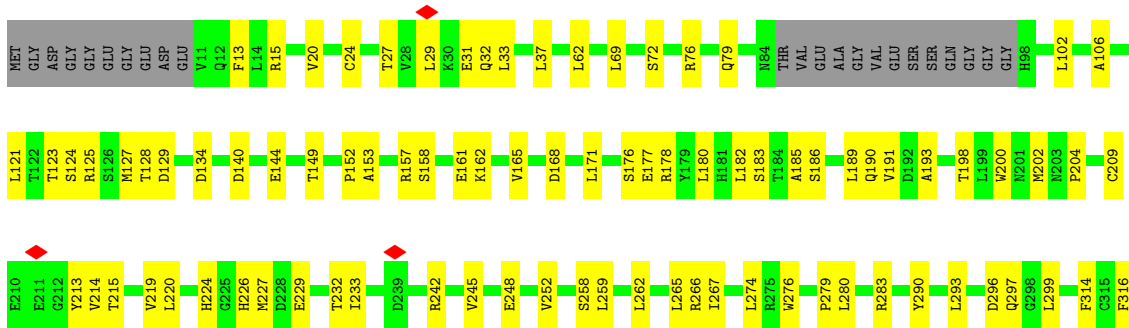


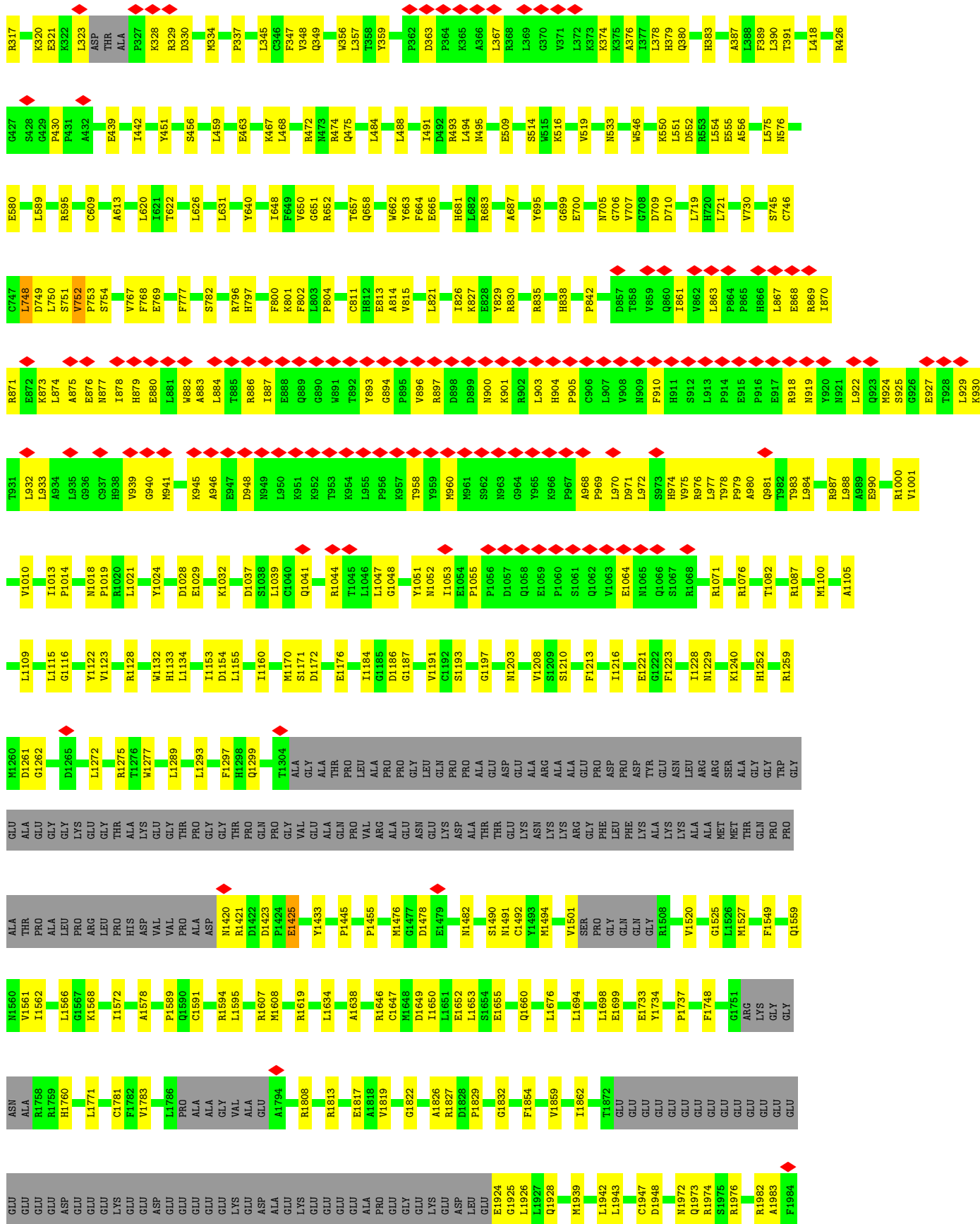


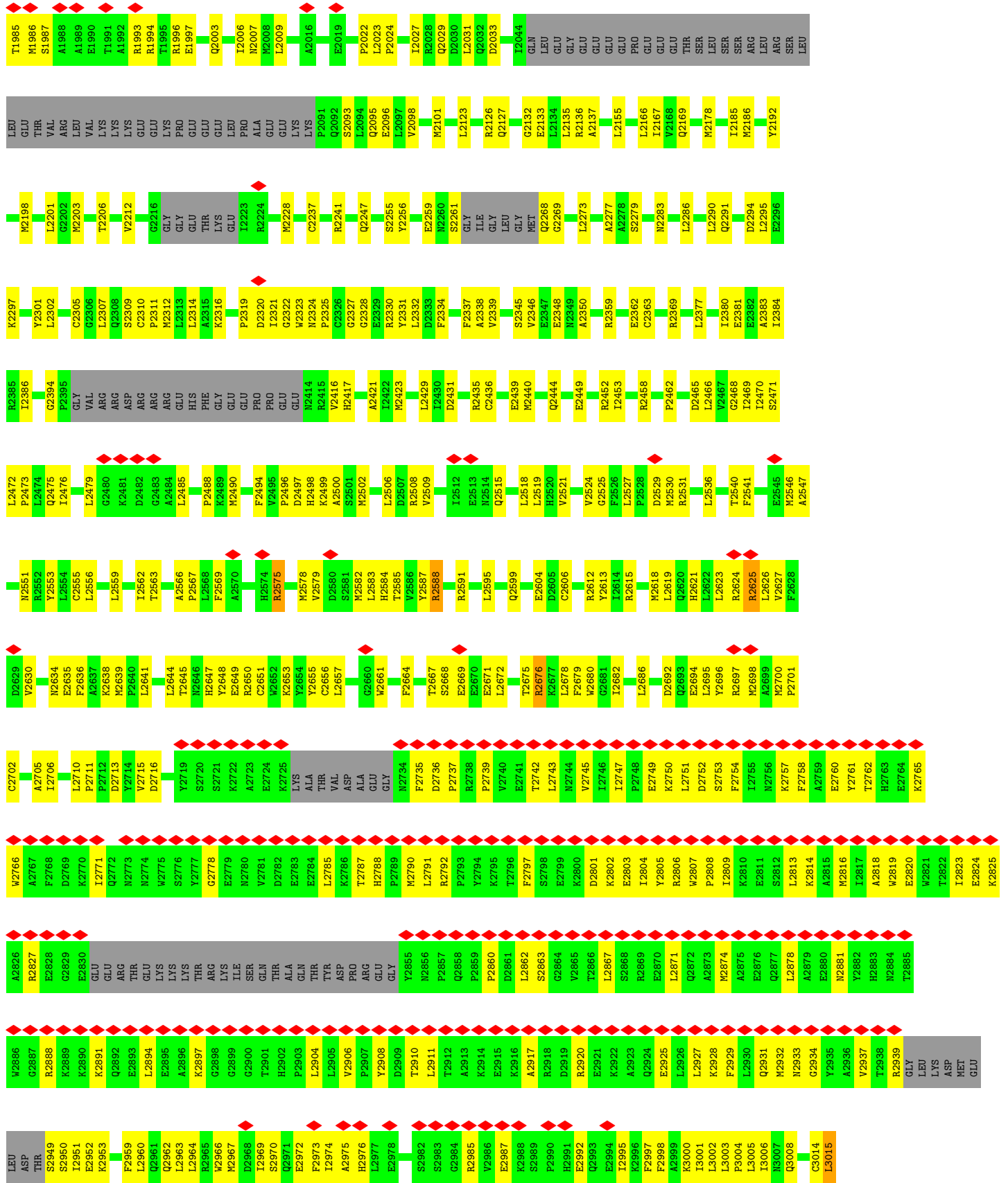
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GLY	E3872	K3873	D3883	L3884	F3885	Q3889	C3892	E3893	F3899	I3916	L3924	Q3927	I3930	F3933	Y3934	K3935	Y3936	D3941	V3942	E3943	E3944	Q3946	A3954	M3955	L3965	T3966	E3967	Y3968	I3969	Q3970	G3971	P3972	C3973	R3984	L3985	W3986	D3987	A3988	V3989	F3992	V3995	F3996														
R3762	Q3767	S3768	H3771	A3776	E3777	K3782	I3783	T3797	L3802	N3809	V3812	Q3813	Q3814	K3815	M3816	L3817	E3825	M3836	L3842	D3843	N3844	N3845	A3846	F3847	E3848	Q3849	N3850	N3851	E3854	G3855	L3856	G3857	M3858	V3859	N3860	W3861	A3862	D3862	G3863	R3864	V3865	L3866	ASN	ARG	GLN	ASN										
Y3642	R3648	Y3657	K3658	M3673	E3682	GLN	GLU	GLU	GLU	GLU	VAL	GLU	K3693	K3694	P3695	H3699	Q3700	L3701	F3705	A3709	K3715	E3718	M3723	A3724	Y3725	M3729	L3735	GLU	GLU	GLY	GLY	GLY	GLU	ASN	GLY	GLU	ALA	TRP	HIS	LYS	LEU	L3624	S3625	K3626	Q3627	R3628	F3629	R3630	A3631	V3632	V3633	A3634	C3635	F3636	R3637	M3638
V3563	E3564	R3570	L3575	V3576	L3579	F3580	G3581	R3582	E3583	E3584	D3585	A3586	D3587	V3593	R3594	R3595	V3596	Q3597	E3598	V3599	V3602	L3603	Y3604	E3607	H3611	Y3612	K3613	S3615	LYS	ALA	VAL	TRP	HIS	LYS	LEU	L3624	S3625	K3626	Q3627	R3628	F3629	R3630	A3631	V3632	V3633	A3634	C3635	F3636	R3637	M3638						
T425	E426	P427	N428	E432	E433	M437	F442	I443	A3443	Y3444	V3445	S448	H449	N450	F451	K452	R453	E454	E455	Q456	N457	F458	V459	Q460	Q461	N462	E463	I464	N465	N466	N467	F468	L470	T471	ALA	ASP	SER	LYS	LYS	MET	ALA	LYS	ALA	GLY	ASP	ALA	GLN	SER	GLY	GLY	ASP	GLN				
K3349	R3350	H3357	T3361	I3362	G3363	R3364	K3367	R3368	A3369	G3370	K3371	V3372	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	A3384	A3385	A3386	E3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	L3401	C3402	R3403	D3404	L3405	Y3409	L3412	T3413	R3414	T3415	D3416	N3417	N3419	R3420					
A3349	R3350	H3357	T3361	I3362	G3363	R3364	K3367	R3368	A3369	G3370	K3371	V3372	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	A3384	A3385	A3386	E3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	L3401	C3402	R3403	D3404	L3405	Y3409	L3412	T3413	R3414	T3415	D3416	N3417	N3419	R3420					
V3269	I3270	E3271	I3272	L3273	L3274	P3275	M3276	L3277	C3278	S3279	K3280	L3281	F3282	R3283	W3284	W3285	E3286	R3287	E3290	L3296	P3297	L3298	A3299	P3301	R3302	T3305	S3309	L3312	N3318	L3319	L3320	R3321	S3235	V3236	E3237	E3238	M3239	C3240	I3243	P3244	V3245	L3246	D3247	R3248	L3253	R3262	P3267	H3268								
L3186	R3187	F3188	C3193	L3194	L3197	A3198	K3201	F3202	V3203	A3204	F3205	L3206	T3207	Q3208	Q3209	A3215	C3216	S3217	V3218	Y3219	T3220	G3221	K3222	S3223	P3224	R3225	E3226	A3228	I3229	G3231	L3232	P3233	N3234	S3235	V3236	E3237	E3238	M3239	C3240	I3243	P3244	V3245	L3246	D3247	R3248	L3253	R3262	P3267	H3268							
L3112	G3113	LYS	VAL	SER	GLN	ALA	THR	GLN	VAL	K3123	G3124	A3125	G3126	T3130	L3136	V3139	L3140	T3141	L3142	L3143	F3144	Q3145	H3146	I3147	A3148	Q3149	H3150	Q3151	F3152	D3155	V3156	I3157	L3158	D3159	V3160	V3161	Q3162	Y3166	R3167	L3169	T3172	Y3173	S3174	L3175	G3176	T3177	Y3182	V3183	E3184	K3185						
K3033	K3034	E3035	K3036	E3037	M3038	I3039	T3040	S3041	L3042	F3043	C3044	K3045	L3046	L3049	V3050	R3051	H3052	L3056	F3057	D3060	A3061	V3064	C3067	L3068	H3069	L3070	L3071	D3076	A3077	R3078	T3079	V3080	M3081	P3085	V3088	L3089	L3092	A3099	S3100	E3104	K3105	M3106	V3107	E3108	N3109	L3110	R3111									
K2953	F2959	L2960	Q2961	Q2962	L2963	L2964	L2965	W2966	W2967	E2968	L2969	S2970	Q2971	E2972	F2973	L2974	A2975	E2976	L2977	E2978	S2982	S2983	G2984	R2985	V2986	E2987	F2990	H2991	E2992	W2993	E2994	L2995	K2996	F2997	F2998	A2999	K3000	I3001	L3002	L3003	F3004	L3005	I3006	N3007	Q3008	C3014	L3015	V3016	A3022	K3023	V3024	L3025	G3026	S3027		



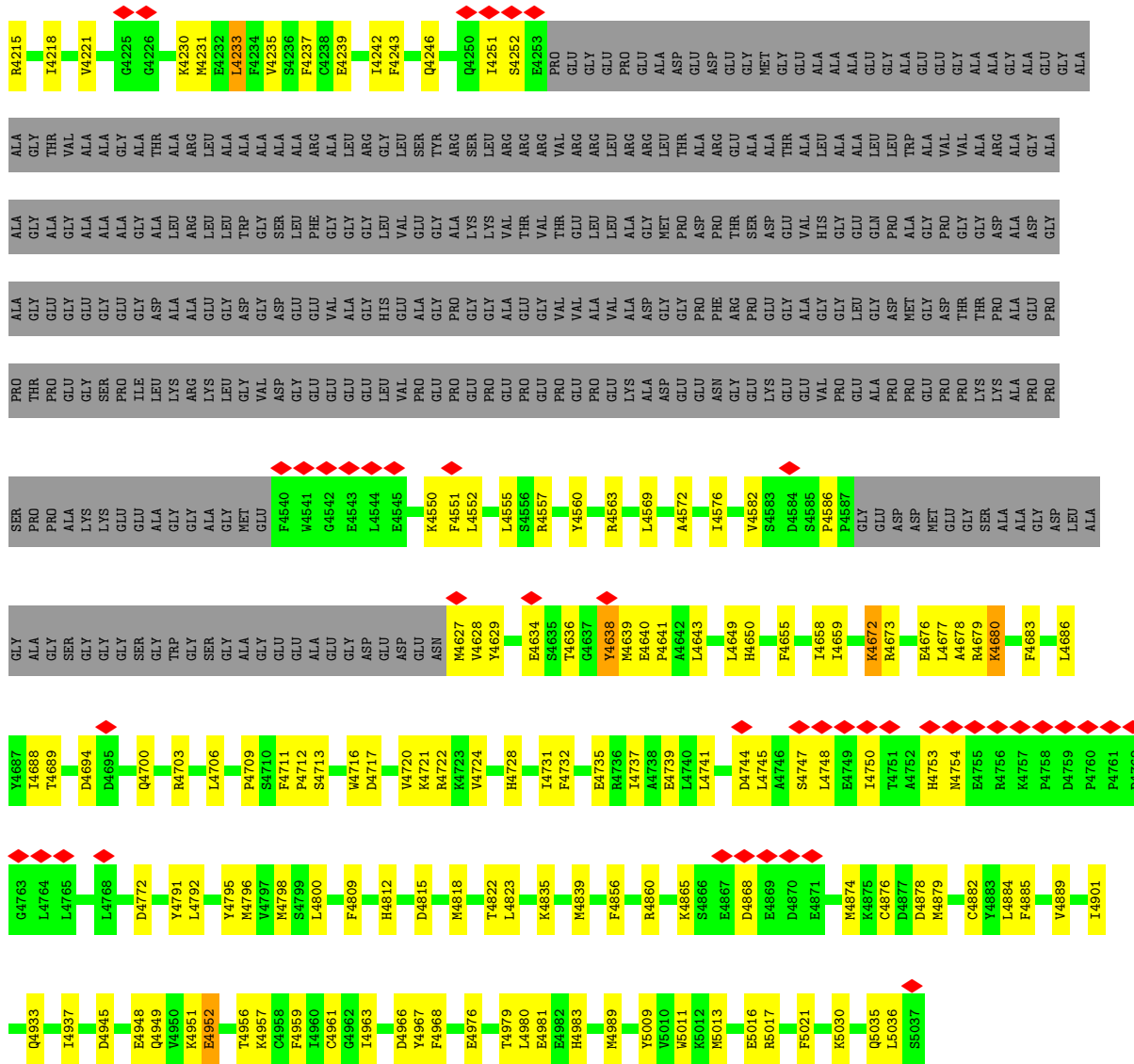
● Molecule 2: Ryanodine receptor 1







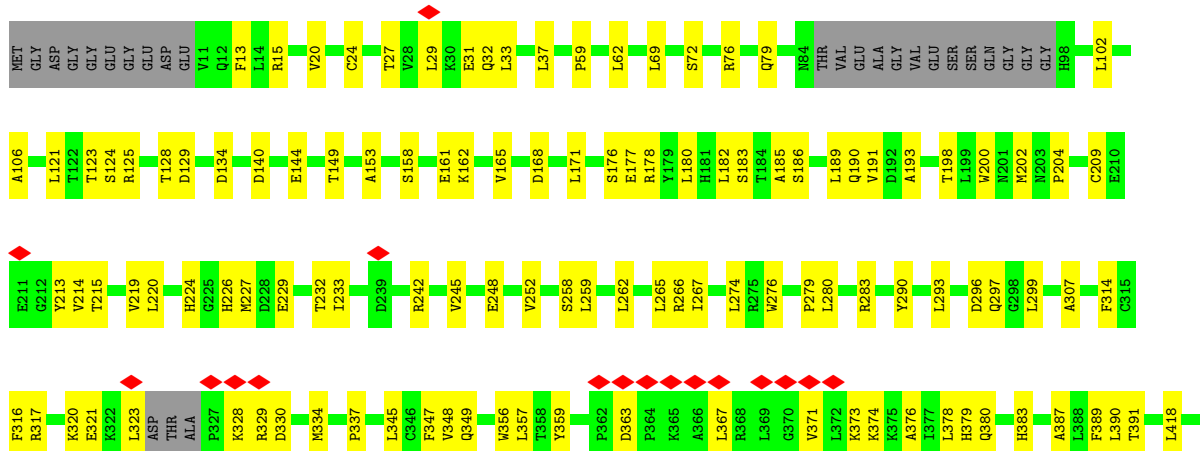
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S4114	M3999	ARG	Y3632	D3417	D3417	V3346	T3177	V3107	K3023
S4115	M4000	GLN	Y3632	N3418	N3418	V3346	Y3182	E3108	R3024
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A4117	M4002	GLY	A3634	N3420	N3420	R3348	L3186	L3110	G3026
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S4119	L4012	K3873	R3637	E3426	E3426	R3357	L3188	G3113	N3033
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F4125	K4021	T3772	Y3657	E3432	E3432	L3194	C3193	GLN	E3037
E4126	D4022	T3772	K3658	E3433	E3433	G3363	A3195	ALA	R3038
F4127	M4024	A3776	M3673	M3437	M3437	G3363	A3196	GLM	E3037
F4128	V4025	E3778	M3673	M3437	M3437	R3364	M3197	THR	R3038
A4129	L4031	M3782	E3682	S3448	S3448	K3367	A3198	GLN	R3039
R4130	L4036	M3802	GLN	N3449	N3449	M3201	C3193	VAL	T3040
F4132	V4036	L3802	GLU	N3450	N3450	P3202	C3193	VAL	S3041
Q4133	M4044	M3809	GLU	N3451	N3451	P3202	C3193	VAL	S3041
R4137	V4045	M3809	GLU	N3452	N3452	P3202	C3193	VAL	S3041
D4138	D4046	M3812	GLU	N3453	N3453	P3202	C3193	VAL	S3041
M4047	M4047	M3812	GLU	N3454	N3454	P3202	C3193	VAL	S3041
V4154	V4049	M3812	GLU	N3455	N3455	P3202	C3193	VAL	S3041
F4155	F4056	M3812	GLU	N3456	N3456	P3202	C3193	VAL	S3041
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R4159	F4061	M3812	GLU	N3460	N3460	P3202	C3193	VAL	S3041
L4160	V4072	M3812	GLU	N3461	N3461	P3202	C3193	VAL	S3041
R4161	G4073	M3812	GLU	N3462	N3462	P3202	C3193	VAL	S3041
L4164	S4074	M3812	GLU	N3463	N3463	P3202	C3193	VAL	S3041
E4165	F4077	M3812	GLU	N3464	N3464	P3202	C3193	VAL	S3041
L4166	Q4078	M3812	GLU	N3465	N3465	P3202	C3193	VAL	S3041
R4180	T4082	M3812	GLU	N3466	N3466	P3202	C3193	VAL	S3041
F4181	D4083	M3812	GLU	N3467	N3467	P3202	C3193	VAL	S3041
E4182	P4084	M3812	GLU	N3468	N3468	P3202	C3193	VAL	S3041
R4188	R4085	M3812	GLU	N3469	N3469	P3202	C3193	VAL	S3041
R4189	G4086	M3812	GLU	N3470	N3470	P3202	C3193	VAL	S3041
R4192	K4090	M3812	GLU	N3471	N3471	P3202	C3193	VAL	S3041
E4199	M4091	M3812	GLU	N3472	N3472	P3202	C3193	VAL	S3041
Q4204	D4092	M3812	GLU	N3473	N3473	P3202	C3193	VAL	S3041
W4205	K4095	M3812	GLU	N3474	N3474	P3202	C3193	VAL	S3041
Q4209	M4097	M3812	GLU	N3475	N3475	P3202	C3193	VAL	S3041
E4212	F4103	M3812	GLU	N3476	N3476	P3202	C3193	VAL	S3041
S4213	T4104	M3812	GLU	N3477	N3477	P3202	C3193	VAL	S3041
K4214		M3812	GLU	N3478	N3478	P3202	C3193	VAL	S3041

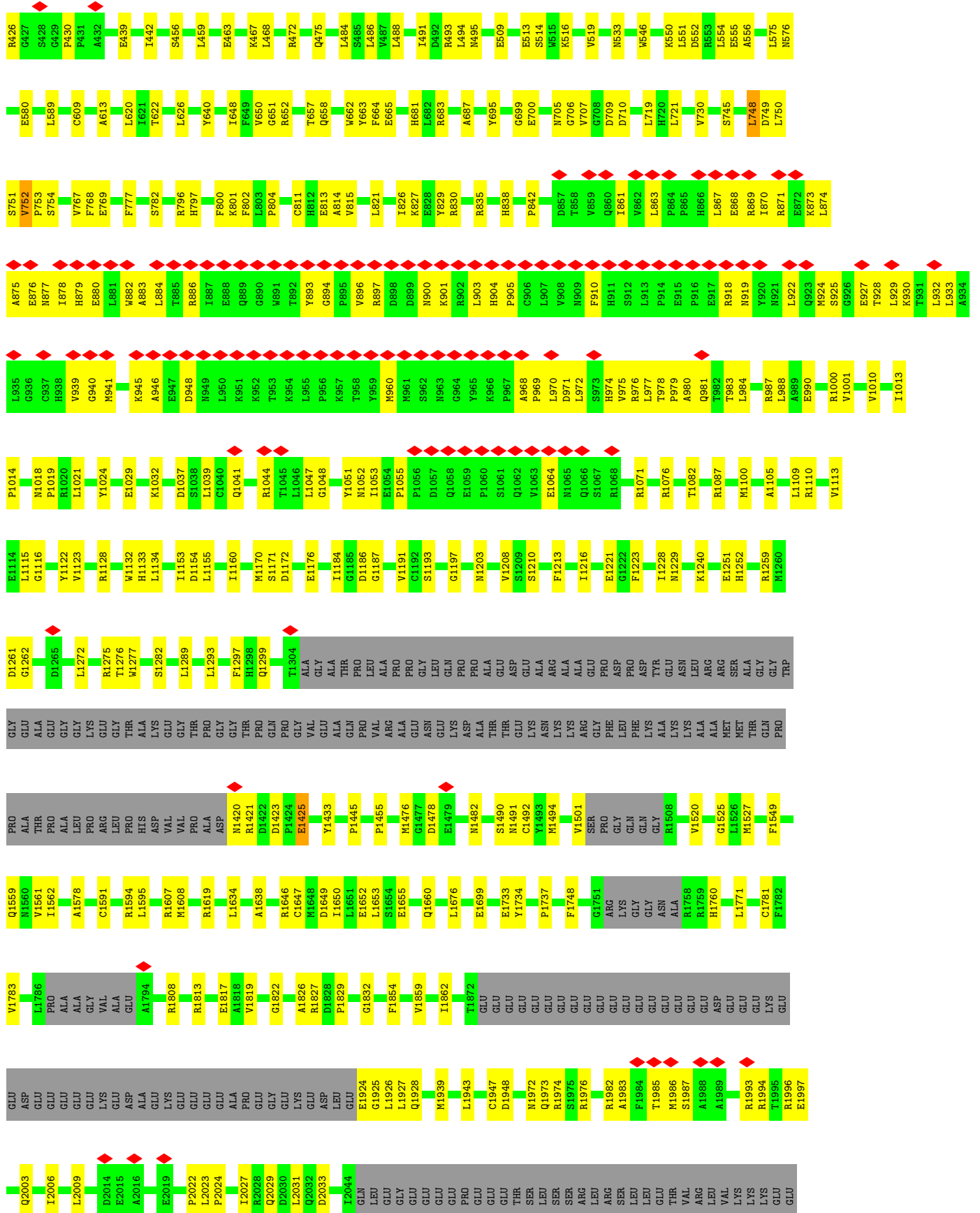


● Molecule 2: Ryanodine receptor 1



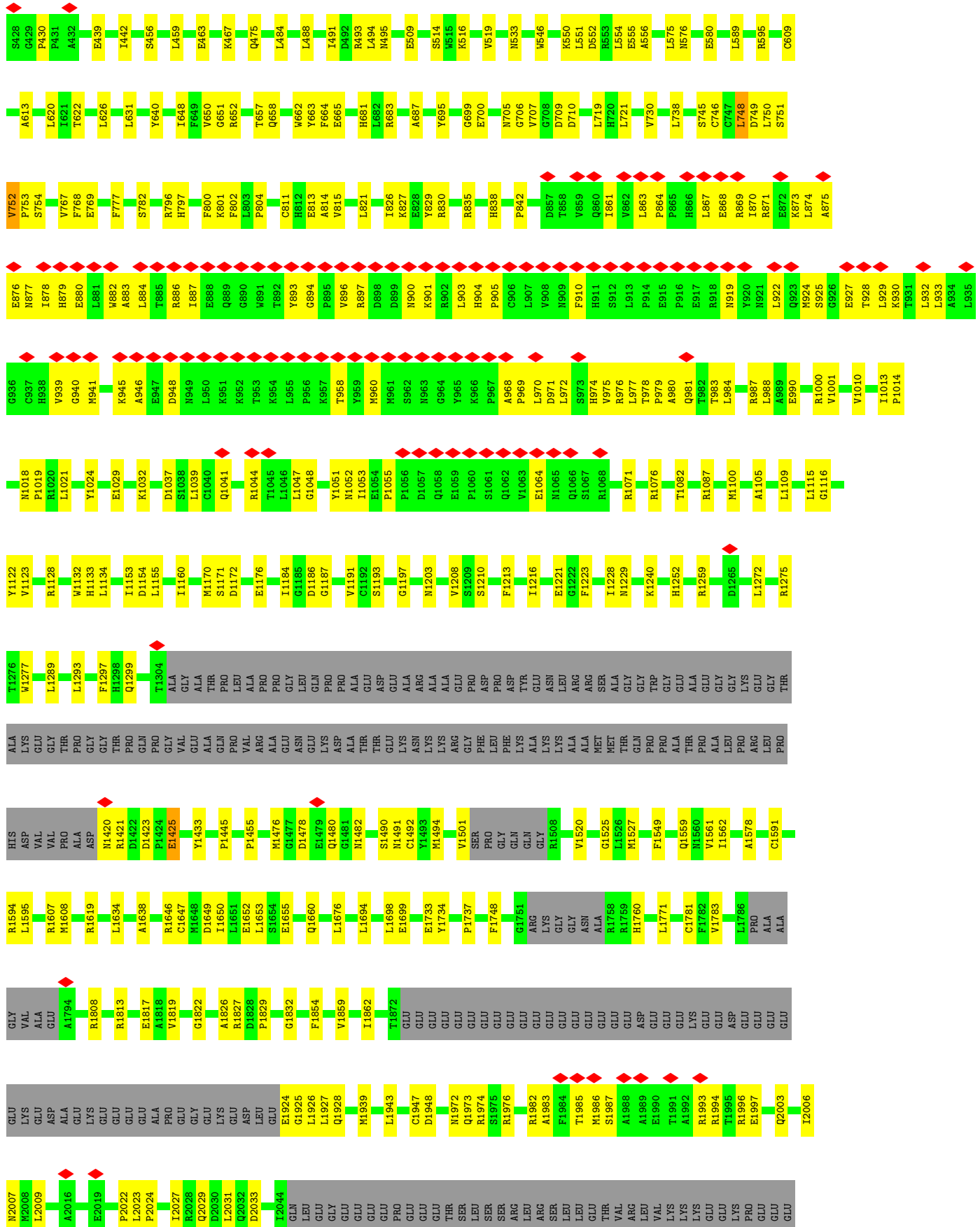
Chain B:





LYS	THR	P2319	F2494	A2570	R2650	E2724	E2784	GLN	L2904	D2968	F3043	GLN	L3044
PRO	LYS	D2320	V2495	H2574	C2651	K2725	L2785	THR	L2905	I2969	C3044	THR	K3045
GLU	GLU	I2223	K2653	R2575	K2652	ALA	K2786	ALA	V2906	S2970	S2970	ALA	L3046
LEU	GLU	R2224	Y2654	H2498	Y2655	THR	T2787	THR	P2907	Q2971	T2971	THR	L3049
PRO	GLU	M2228	H2499	K2499	Y2656	VAL	P2788	TYR	D2908	F2972	F2972	THR	V3050
ALA	ALA	C2237	A2800	A2800	L2657	ASP	P2789	ASP	T2910	P2909	I2974	PRO	R3051
GLU	GLU	M2241	S2501	S2502	L2660	ALA	M2790	ARG	L2911	T2910	A2975	ARG	H3052
LYS	LYS	R2241	M2502	L2583	V2660	GLU	L2791	GLU	L2912	L2911	L2977	GLU	L3056
	LYS	Q2247	L2506	L2584	V2661	GLY	R2792	GLY	T2912	T2912	E2978		F3057
		S2255	D2507	T2585	F2664		P2793		A2913	A2913	S2982		D3060
		L2094	R2330	Y2331	T2665		Y2794		K2914	K2914	S2982		A3061
		Q2095	Y2256	Y2587	T2667		K2795		E2915	E2915	S2983		L3068
		E2096	S2259	R2588	E2669		T2796		K2916	K2916	G2984		V3064
		L2097	E2259	R2591	E2670		F2797		A2917	A2917	G2984		L3069
		V2098	N2260	L2512	E2671		S2798		R2918	R2918	R2985		C3067
		M2101	S2261	M2513	E2672		E2799		D2919	D2919	V2986		L3070
		L2123	GLY	M2514	L2672		K2800		E2920	E2920	E2987		L3071
		R2126	ILE	Q2515	T2675		R2801		R2921	R2921	F2990		D3076
		Q2127	GLY	L2518	R2676		K2802		K2922	K2922	H2991		A3077
		G2132	ILE	H2520	K2677		E2803		A2923	A2923	E2992		R3078
		E2133	LEU	F2679	F2679		I2804		Q2924	Q2924	E2994		T3079
		L2134	LEU	W2680	W2680		R2806		L2926	L2926	K2996		V3080
		L2135	GLY	G2681	G2681		W2807		L2927	L2927	F2997		M3081
		R2136	GLY	L2682	L2682		P2808		K2928	K2928	A2998		
		A2137	MET	L2686	L2686		R2809		F2929	F2929	R2999		
		Q2268	GLY	R2612	R2612		L2871		L2930	L2930	K3000		
		C2269	GLY	Y2613	Y2613		Q2872		L2931	L2931	I3001		
		L2273	GLY	R2614	R2614		A2873		Q2931	Q2931	L3002		
		A2277	ILE	R2615	R2615		M2874		M2932	M2932	P3004		
		S2279	GLY	M2618	M2618		A2875		N2933	N2933	L3005		
		N2283	GLY	D2529	D2529		E2876		G2934	G2934	I3006		
		L2286	LEU	L2622	L2622		Q2877		Y2935	Y2935	M3007		
		L2290	LEU	L2623	L2623		A2879		A2936	A2936	Q3008		
		L2295	GLY	R2624	R2624		E2880		V2937	V2937	C3014		
		E2296	GLY	R2625	R2625		M2881		W2937	W2937	L3016		
		K2297	GLY	L2626	L2626		E2818		T2938	T2938	Y3016		
		Y2301	GLY	V2627	V2627		W2819		GLY	GLY	A3022		
		L2302	GLY	F2628	F2628		E2820		LEU	LEU	K3023		
		C2305	GLY	D2629	D2629		E2821		LYS	LYS	L2884		
		G2306	ARG	V2630	V2630		T2822		ASP	ASP	T2885		
		L2307	ARG	W2634	W2634		I2823		MET	MET	L2886		
		Q2308	ARG	E2635	E2635		E2824		GLU	GLU	G2887		
		S2309	ASP	F2636	F2636		K2825		ASP	ASP	R2888		
		C2310	ASP	L2637	L2637		A2826		THR	THR	K2889		
		P2311	ARG	K2638	K2638		R2827		THR	THR	K2890		
		M2312	ARG	M2639	M2639		E2827		ASP	ASP	K2890		
		L2313	ARG	L2641	L2641		K2827		THR	THR	L2894		
		A2314	GLU	L2644	L2644		E2827		THR	THR	E2895		
		E2315	PHE	T2645	T2645		E2828		ALA	ALA	K2895		
		K2316	GLY	H2646	H2646		G2829		S2949	S2949	A2896		
			GLY	M2647	M2647		E2830		S2950	S2950	R2897		
			GLY	L2648	L2648		GLU		T2951	T2951	K2897		
			GLY	E2649	E2649		GLU		E2952	E2952	L2898		
			GLY	F2569	F2569		THR		K2953	K2953	L2964		
							GLU		F2959	F2959	R2966		
							ARG		L2894	L2894	M2967		
							THR		E2895	E2895			
							GLU		K2899	K2899			
							THR		L2894	L2894			
							LYS		E2895	E2895			
							LYS		A2896	A2896			
							LYS		K2897	K2897			
							THR		G2898	G2898			
							LYS		G2899	G2899			
							ARG		G2900	G2900			
							ILE		T2901	T2901			
							SER		H2902	H2902			
									E2783	E2783			

R3123	R3124	R3125	R3126	T3130	L3136	V3139	L3140	T3141	T3142	L3143	L3144	R3145	R3146	L3147	R3148	R3149	R3150	R3151	F3152	D3155	V3156	L3157	L3158	D3159	D3160	V3161	R3162	V3166	R3167	T3168	L3169	L3172	V3173	S3174	L3175	G3176	T3177	Y3182	R3185	L3186	R3187	P3188	C3193	L3194	L3197	A3198	A3199	A3200	R3201					
P3202	V3203	A3204	F3205	L3206	E3207	A3215	C3216	S3217	R3218	Y3219	T3220	K3221	S3222	S3223	P3224	R3225	E3226	R3227	R3228	L3229	L3230	G3231	L3232	P3233	N3234	S3235	V3236	E3237	E3238	M3239	C3240	I3243	V3244	L3245	D3247	R3248	I3253	R3262	P3267	H3268	V3269	I3270	E3271	L3272	T3273	L3274	P3275	M3276	L3277	C3278	S3279	Y3280	L3281	
P3282	R3283	W3284	R3287	E3290	L3296	P3297	A3298	G3299	A3300	P3301	T3305	S3309	L3312	N3313	N3318	L3319	L3320	R3321	L3322	L3323	V3324	N3325	N3326	L3327	G3328	N3329	L3330	E3331	A3332	W3333	L3334	L3338	I3345	V3346	S3347	A3348	A3349	R3350	H3357	T3358	E3426	P3427	N3428	G3363	R3364	K3367	R3368	A3369	G3370					
K3371	V3372	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	R3382	A3383	K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	V3400	L3401	C3402	R3403	D3404	L3405	Y3409	L3412	R3413	R3414	Y3415	V3416	D3417	N3418	R3419	R3420	T3425	E3426	P3427	N3428	A3432	E3433	M3437	T3443	Y3444			
W3445	S3448	H3449	N3450	F3451	K3452	R3453	E3454	E3455	Q3456	F3458	V3459	V3460	Q3461	R3462	E3463	I3464	N3465	R3466	M3467	S3468	F3469	L3470	T3471	ALA	ASP	SER	LYS	SER	TRP	LYS	MET	ALA	LYS	ALA	ASP	GLN	SER	GLY	GLY	ASP	GLN	GLU	THR	LYS	LYS	LYS	ARG	ARG	GLY	ASP	ARG	Y3503	S3504	V3505
Q3506	T3507	S3508	L3509	L3510	V3511	M3517	L3520	G3521	L3522	N3523	K3524	S3525	A3526	D3529	L3530	D3531	L3532	L3533	M3534	K3537	A3541	L3542	K3543	D3544	T3545	D3546	E3547	E3548	V3549	R3550	E3551	L3553	Q3554	N3555	F3556	L3557	Q3560	V3563	E3564	P3567	R3570	L3575	Y3576	L3579	F3580	K3581	R3582							
E3583	E3584	D3585	A3586	R3587	D3588	V3593	R3594	R3595	V3596	Q3597	E3598	V3599	V3602	L3603	Y3604	E3607	H3611	P3612	Y3613	K3614	S3615	LYS	LYS	VAL	TRP	HIS	LYS	LEU	L3624	K3626	Q3627	R3628	R3629	R3630	A3631	V3633	A3634	C3635	F3636	R3637	M3638	Y3642	R3648	Y3657	K3658	E3682	GLU							
GLU	GLU	GLU	GLU	VAL	GLU	GLU	K3693	K3694	P3695	H3699	H3700	L3701	F3705	A3709	K3715	E3718	K3723	K3724	Y3725	M3729	L3735	GLU	GLU	GLY	GLY	GLU	ASN	GLY	ALA	ALA	GLU	GLU	GLU	ASN	GLY	V3751	R3762	Q3767	S3768	H3771	T3772	A3776	E3777	K3778										
M3782	I3802	N3809	V3812	Q3813	K3815	M3816	L3817	M3836	L3842	D3843	L3844	N3845	A3846	F3847	E3848	R3849	Q3850	N3851	M3858	V3859	N3860	E3861	G3862	G3863	T3864	V3865	I3866	ASN	ARG	GLN	ASN	E3872	K3873	D3883	L3884	F3885	Q3889	C3892	E3893	F3899	I3916	L3924	Q3927											
F3933	Y3934	W3935	L4160	R4161	L4164	E4166	F4176	R4180	I4181	E4182	R4189	R4192	E4199	R4202	Q4203	W4205	Q4209	E4212	S4213	R4214	R4215	I4218	W4221	Q4225	Q4226	K4230	M4231	E4232	L4233	F4234	V4235	S4236	F4237	W4238	E4239	I4242	F4243	E4244	M4245	Q4246	Q4250	I4251												
S4252	E4253	PRO	GLY	GLY	GLU	PRO	ALA	ASP	GLY	ASP	GLY	GLY	GLY	GLY	GLY	GLY	ALA	GLU	GLU	ALA	ALA	ALA	GLY	VAL	ALA	GLY	ALA	ARG	ARG	ALA	ALA	ALA	ALA	ALA	ARG	ALA	LEU	ARG	GLY	LEU	SER	TYR	ARG	SER										



LEU	PRO	ALA	GLU	GLY	LYS	P2091	Q2092	S2093	L2094	Q2095	E2096	L2097	V2098	W2101	L2103	R2126	Q2127	E2132	F2133	L2134	L2135	R2136	A2137	L2155	L2166	L2167	W2168	Q2169	W2178	L2185	W2186	Y2192	W2198	L2201	G2202	M2203	T2206	V2212	G2216	GLY	GLY	THR	LYS															
GLU	I2223	M2228	C2237	R2241	Q2247	S2255	E2256	L2259	N2260	S2261	GLY	ILE	GLY	LEU	GLY	MET	Q2268	G2269	L2273	A2277	A2278	S2279	N2283	L2286	L2290	Q2291	D2294	L2295	E2296	K2297	Y2301	L2302	C2305	G2306	L2307	Q2308	S2309	C2310	P2311	M2312	L2313	L2314	A2315	K2316														
P2319	D2320	I2321	G2322	W2323	N2324	P2325	C2326	Q2327	R2328	E2329	R2330	Y2331	L2332	F2333	F2337	A2338	V2339	S2345	E2348	W2349	A2350	R2359	E2362	C2363	R2369	L2377	I2380	E2381	G2382	A2383	I2384	R2385	I2386	G2394	GLY	VAL	ARG	ASP	ARG	ARG	GLU	HIS	PHE	GLY	GLU	GLU												
PRO	PRO	GLU	N2414	R2415	V2416	H2417	A2421	I2422	M2423	L2429	I2430	D2431	L2432	L2433	G2434	R2435	C2436	E2439	M2440	Q2444	E2449	R2452	I2453	R2458	P2462	D2465	L2466	V2467	G2468	I2469	I2470	S2471	L2472	P2473	L2474	Q2475	I2476	L2479	G2480	ASP	K2481	D2482	G2483	A2484	L2485	P2488	K2489	M2490										
F2494	W2495	P2496	D2497	H2498	K2499	A2500	S2501	M2502	L2503	P2507	R2508	V2509	I2512	E2513	G2514	Q2515	L2518	L2519	H2520	W2521	V2524	G2525	F2526	L2527	P2528	D2529	M2530	R2531	S2535	L2536	T2540	F2541	E2545	M2546	A2547	M2551	R2552	Y2553	L2554	C2555	L2559	I2562	T2563	A2566	P2567	L2568	F2569											
A2570	H2574	R2575	Y2578	M2579	D2580	S2581	M2582	L2583	H2584	T2585	V2586	R2588	R2591	L2595	Q2599	E2604	D2605	C2606	R2612	Y2613	L2614	R2615	M2618	L2619	H2620	G2621	L2622	L2623	R2624	R2625	L2626	F2628	D2629	V2630	M2634	E2635	F2636	A2637	K2638	M2639	L2640	L2641	L2644	T2645	Y2648	E2649												
R2650	C2651	W2652	K2653	Y2654	Y2655	C2656	L2657	G2660	W2661	F2664	T2667	S2668	E2669	E2670	E2671	L2672	T2675	R2676	K2677	L2678	F2679	W2680	G2681	L2682	L2686	D2692	Q2693	R2697	M2699	M2700	P2701	C2702	A2705	I2706	L2710	P2711	P2712	D2713	Y2714	Y2715	D2716	Y2719	S2720	S2721	K2722	A2723												
E2724	K2725	LYS	ALA	THR	VAL	ASP	ALA	GLU	GLY	N2734	F2735	D2736	P2737	R2738	P2739	V2740	E2741	T2742	L2743	K2744	L2745	L2746	I2747	P2748	E2749	K2750	L2751	D2752	S2753	F2754	I2755	N2756	K2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	D2769	K2770	I2771	Q2772	N2773	N2774	W2775	S2776	Y2777	G2778	E2779	N2780	V2781	D2782	E2783
E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	R2792	P2793	Y2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	I2804	Y2805	R2806	W2807	P2808	S2809	K2810	E2811	S2812	L2813	K2814	A2815	M2816	I2817	A2818	W2819	E2820	W2821	T2822	I2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLU	GLU	ARG	THR	GLU	LYS	LYS	THR	ARG	LYS	ILE	SER
GLN	THR	ALA	GLN	THR	TYR	ASP	PRO	ARG	GLY	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	S2862	S2863	G2864	Y2865	T2866	L2867	S2868	R2869	E2870	L2871	Q2872	A2873	A2875	E2876	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	N2884	T2885	W2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	E2894	L2895	E2895	A2896	K2897	G2898	G2899	G2900	L2901	H2902	P2903
L2904	L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	A2913	K2914	E2915	K2916	A2917	R2918	D2919	E2920	R2921	K2922	A2923	Q2924	E2925	L2926	L2927	K2928	F2929	F2929	L2930	Q2931	M2932	N2933	G2934	Y2935	A2936	V2937	T2938	R2939	GLY	LEU	LYS	ASP	MET	LEU	ASP	THR	S2949	I2951	E2952	K2953	F2959	L2960	Q2961	Q2962	L2963	L2964	R2965	M2967		
D2968	I2969	S2970	Q2971	E2972	F2973	L2974	A2975	H2976	L2977	E2978	S2982	S2983	G2984	R2985	V2986	E2987	P2990	H2991	E2992	Q2993	E2994	I2995	K2996	F2997	F2998	A2999	K3000	L3001	L3002	L3003	L3005	L3006	N3007	Q3008	C3014	L3015	Y3016	A3022	K3023	V3024	SER	GLU	LEU	ASP	N3033	K3034	E3035	K3036	E3037	M3038	I3039	T3040	S3041	L3042				
E3043	C3044	K3045	L3046	L3049	V3050	R3051	H3052	L3056	F3057	D3060	G3067	L3068	H3069	L3070	L3071	D3076	A3077	R3078	T3079	V3080	M3081	P3085	V3088	K3089	L3092	A3099	S3100	E3104	K3105	V3107	E3108	N3109	L3110	R3111	L3112	G3113	VAL	VAL	SER	GLN	ALA	ARG	THR	GLN	VAL	K3123	G3124	V3125										

Q4246	R4131	M4037	T3797	D3586	S3508	S3448	E3375	W3284	L3206	G3126
Q4250	F4132	G4038	I3802	A3596	L3509	H3449	E3376	R3287	E3207	T3130
I4251	Q4133	M4044	N3809	R3587	V3511	F3451	E3377	E3290	Q3209	L3136
S4252	D4137	D4046	V3812	V3593	M3517	K3452	Q3378	L3296	A3215	L3139
E4253	R4138	M4047	Q3813	R3594	L3520	R3453	L3379	L3296	C3216	L3140
PRD	V4154	V4048	Q3814	R3595	G3520	E3454	R3380	P3297	S3217	L3141
GLU	D4157	V4049	M3815	R3596	G3521	E3455	L3381	A3298	S3218	L3142
GLY	M3816	M3817	Q3597	R3598	N3523	Q3457	E3382	F3458	Y3219	L3143
GLU	L3817	L3817	V3599	V3599	K3524	F3459	A3383	G3299	T3220	L3144
ASP	D3822	D3822	V3602	A3526	A3526	Y3460	K3384	A3300	T3221	F3144
GLU	K3823	K3823	L3603	D3529	D3529	Q3461	A3385	A3301	S3223	H3146
ASP	M3836	M3836	L3604	O3530	O3530	N3462	E3386	T3305	L3147	L3147
GLY	L3842	L3842	Y3604	D3531	D3531	A3463	A3387	S3309	A3148	A3148
GLY	D3843	D3843	E3607	L3532	L3532	I3464	E3388	L3312	R3225	H3149
GLY	L3844	L3844	H3611	L3533	L3533	N3466	E3389	N3313	R3227	H3150
GLY	M3845	M3845	P3612	M3534	M3534	M3467	G3390	L3314	A3228	F3152
GLY	F3847	F3847	Y3613	K3537	K3537	S3467	E3391	N3318	I3229	D3155
GLY	E3848	E3848	K3614	A3541	A3541	F3469	L3392	T3319	G3231	V3156
GLY	R3849	R3849	S3615	L3542	L3542	L3470	L3393	L3320	L3232	L3157
GLY	N3851	N3851	L3624	K3543	K3543	T3471	V3394	R3321	P3233	L3158
GLY	L3856	L3856	L3625	D3544	D3544	ALA	R3395	I3322	N3234	D3159
GLY	G3857	G3857	L3626	L3545	L3545	ASP	E3396	I3323	S3235	N3160
GLY	M3858	M3858	S3626	V3546	V3546	SER	F3398	V3324	E3236	V3161
GLY	R3859	R3859	K3626	D3547	D3547	SER	S3399	N3325	E3237	Q3162
GLY	N3880	N3880	H3626	E3547	E3547	LYS	V3400	K3326	E3238	V3166
GLY	E3861	E3861	L3626	F3548	F3548	LYS	L3401	L3327	R3167	R3167
GLY	D3862	D3862	S3626	V3549	V3549	MET	C3402	G3328	C3240	T3168
GLY	G3863	G3863	K3626	M3550	M3550	ALA	R3403	I3329	L3169	L3169
GLY	T3864	T3864	S3626	E3551	E3551	LYS	D3404	D3330	T3243	T3172
GLY	V3865	V3865	K3626	F3552	F3552	ALA	L3405	E3331	P2244	V3173
ASN	I3866	I3866	Q3627	L3553	L3553	GLY	L3405	T3333	V2245	S3174
ARG	ASN	ASN	R3629	Q3554	Q3554	ASP	L3405	W3334	D3247	L3175
GLN	ARG	ARG	R3630	N3555	N3555	ALA	L3405	L3338	R2248	G3176
GLY	GLN	GLN	A3631	R3556	R3556	GLN	L3412	L3338	I3253	T3177
GLY	GLY	GLY	V3632	L3557	L3557	GLY	R3413	L3345	R3262	V3182
GLY	K3873	K3873	A3634	Q3560	Q3560	SER	R3414	V3346	H3267	K3185
GLY	D3883	D3883	F3636	V3563	V3563	ASP	Y3415	V3346	P3267	L3186
GLY	L3884	L3884	M3638	E3564	E3564	GLN	D3417	R3348	H3268	R3187
GLY	F3885	F3885	A3634	F3567	F3567	GLU	N3418	A3349	V3269	R3187
GLY	Q3889	Q3889	C3635	R3567	R3567	ARG	N3420	R3350	I3270	F3188
GLY	C3892	C3892	Y3642	R3570	R3570	THR	R3425	H3357	E3271	C3193
GLY	E3893	E3893	R3648	R3570	R3570	LYS	E3426	L3272	I3272	L3194
GLY	F3899	F3899	Y3657	L3575	L3575	LYS	P3427	T3361	T3273	L3194
GLY	I3916	I3916	K3658	Y3576	Y3576	ARG	N3428	I3362	L3274	L3197
GLY			E3682	L3579	L3579	GLY	ARG	R3364	P3275	A3198
GLY			GLN	F3680	F3680	ASP	GLY	K3364	M3276	A3198
GLY			GLU	G3581	G3581	ARG	ASP	K3367	L3277	K3201
GLY			GLU	R3658	R3658	ARG	ARG	R3368	C3278	F3202
GLY			E3682	E3583	E3583	ARG	ASP	R3369	S3279	V3203
GLY			GLU	F3584	F3584	ARG	ASP	K3370	Y3280	A3204
GLY			GLU	E3682	E3682	ARG	ASP	G3371	L3281	A3204
GLY			GLU	E3584	E3584	ARG	ASP	K3371	P3282	F3205
GLY			GLU	E3584	E3584	ARG	ASP	V3372	R3283	F3205

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	53882	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58.34	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.119	Depositor
Minimum map value	-0.032	Depositor
Average map value	0.016	Depositor
Map value standard deviation	0.031	Depositor
Recommended contour level	0.121	Depositor
Map size (Å)	425.472, 425.472, 425.472	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.831, 0.831, 0.831	Depositor

5 Model quality i

5.1 Standard geometry i

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

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	F	0.78	0/834	0.70	1/1123 (0.1%)
1	H	0.78	0/834	0.71	1/1123 (0.1%)
1	J	0.78	0/834	0.70	1/1123 (0.1%)
1	O	0.78	0/834	0.70	1/1123 (0.1%)
2	A	0.46	1/35070 (0.0%)	0.55	31/47504 (0.1%)
2	B	0.46	1/35070 (0.0%)	0.55	31/47504 (0.1%)
2	G	0.46	1/35070 (0.0%)	0.55	32/47504 (0.1%)
2	I	0.46	1/35070 (0.0%)	0.55	31/47504 (0.1%)
All	All	0.47	4/143616 (0.0%)	0.56	129/194508 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	A	0	1
2	B	0	1
2	G	0	1
2	I	0	1
All	All	0	4

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	3188	PRO	N-CD	-8.43	1.36	1.47
2	B	3188	PRO	N-CD	-8.43	1.36	1.47
2	I	3188	PRO	N-CD	-8.43	1.36	1.47
2	G	3188	PRO	N-CD	-8.37	1.36	1.47

All (129) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	3850	GLN	CA-CB-CG	8.89	132.95	113.40
2	A	3850	GLN	CA-CB-CG	8.88	132.94	113.40
2	I	3850	GLN	CA-CB-CG	8.87	132.92	113.40
2	G	3850	GLN	CA-CB-CG	8.86	132.90	113.40
2	B	2676	ARG	CB-CG-CD	-8.82	88.66	111.60
2	A	2676	ARG	CB-CG-CD	-8.81	88.68	111.60
2	I	2676	ARG	CB-CG-CD	-8.81	88.68	111.60
2	G	2676	ARG	CB-CG-CD	-8.80	88.71	111.60
2	I	4159	ARG	CG-CD-NE	8.49	129.62	111.80
2	B	4159	ARG	CG-CD-NE	8.48	129.62	111.80
2	A	4159	ARG	CG-CD-NE	8.47	129.60	111.80
2	A	752	VAL	N-CA-C	-8.47	88.13	111.00
2	B	752	VAL	N-CA-C	-8.46	88.14	111.00
2	G	752	VAL	N-CA-C	-8.46	88.15	111.00
2	G	4159	ARG	CG-CD-NE	8.45	129.55	111.80
2	I	752	VAL	N-CA-C	-8.46	88.17	111.00
2	A	2676	ARG	NE-CZ-NH1	-8.00	116.30	120.30
2	B	2676	ARG	NE-CZ-NH1	-7.97	116.32	120.30
2	G	2676	ARG	NE-CZ-NH1	-7.93	116.33	120.30
2	I	2676	ARG	NE-CZ-NH1	-7.93	116.33	120.30
2	B	3015	LEU	CA-CB-CG	7.45	132.44	115.30
2	G	3015	LEU	CA-CB-CG	7.45	132.44	115.30
2	A	3015	LEU	CA-CB-CG	7.44	132.42	115.30
2	I	3015	LEU	CA-CB-CG	7.44	132.42	115.30
2	I	2588	ARG	NE-CZ-NH1	7.39	123.99	120.30
2	A	2588	ARG	NE-CZ-NH1	7.38	123.99	120.30
2	G	2588	ARG	NE-CZ-NH1	7.36	123.98	120.30
2	B	2588	ARG	NE-CZ-NH1	7.34	123.97	120.30
2	G	3971	GLY	N-CA-C	-7.27	94.92	113.10
2	A	3971	GLY	N-CA-C	-7.27	94.93	113.10
2	B	3971	GLY	N-CA-C	-7.26	94.95	113.10
2	I	3971	GLY	N-CA-C	-7.26	94.95	113.10
2	G	752	VAL	C-N-CA	-7.09	92.21	122.00
2	B	752	VAL	C-N-CA	-7.09	92.21	122.00
2	A	752	VAL	C-N-CA	-7.09	92.23	122.00
2	I	752	VAL	C-N-CA	-7.09	92.23	122.00
2	B	2588	ARG	CG-CD-NE	7.00	126.50	111.80
2	A	2588	ARG	CG-CD-NE	6.99	126.48	111.80
2	G	2588	ARG	CG-CD-NE	6.99	126.48	111.80
2	I	2588	ARG	CG-CD-NE	6.96	126.42	111.80
2	B	752	VAL	CB-CA-C	-6.92	98.25	111.40
2	I	752	VAL	CB-CA-C	-6.92	98.25	111.40
2	G	752	VAL	CB-CA-C	-6.91	98.27	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	752	VAL	CB-CA-C	-6.90	98.29	111.40
2	B	3162	GLN	CA-CB-CG	6.68	128.10	113.40
2	I	3162	GLN	CA-CB-CG	6.68	128.09	113.40
2	G	3162	GLN	CA-CB-CG	6.67	128.08	113.40
2	A	3162	GLN	CA-CB-CG	6.67	128.07	113.40
2	I	4159	ARG	NE-CZ-NH2	6.56	123.58	120.30
2	G	4159	ARG	NE-CZ-NH2	6.50	123.55	120.30
2	A	4159	ARG	NE-CZ-NH2	6.47	123.53	120.30
2	B	4159	ARG	NE-CZ-NH2	6.46	123.53	120.30
2	G	4874	MET	CB-CG-SD	6.33	131.38	112.40
2	A	4874	MET	CB-CG-SD	6.31	131.32	112.40
2	I	4874	MET	CB-CG-SD	6.30	131.31	112.40
2	B	4874	MET	CB-CG-SD	6.30	131.30	112.40
2	I	3371	LYS	CA-CB-CG	6.19	127.01	113.40
2	G	3371	LYS	CA-CB-CG	6.18	126.99	113.40
2	B	3371	LYS	CA-CB-CG	6.18	126.99	113.40
2	B	2518	LEU	CB-CG-CD2	-6.17	100.51	111.00
2	A	2518	LEU	CB-CG-CD2	-6.17	100.51	111.00
2	A	3371	LYS	CA-CB-CG	6.17	126.96	113.40
2	G	2518	LEU	CB-CG-CD2	-6.17	100.52	111.00
2	I	2518	LEU	CB-CG-CD2	-6.16	100.53	111.00
2	B	2625	ARG	CG-CD-NE	6.13	124.68	111.80
2	A	2625	ARG	CG-CD-NE	6.13	124.67	111.80
2	I	2625	ARG	CG-CD-NE	6.12	124.65	111.80
2	G	2625	ARG	CG-CD-NE	6.11	124.62	111.80
2	I	2612	ARG	NE-CZ-NH2	5.97	123.29	120.30
2	B	2612	ARG	NE-CZ-NH2	5.96	123.28	120.30
2	A	2612	ARG	NE-CZ-NH2	5.93	123.26	120.30
2	G	2612	ARG	NE-CZ-NH2	5.90	123.25	120.30
2	G	749	ASP	N-CA-C	-5.82	95.28	111.00
2	B	749	ASP	N-CA-C	-5.81	95.33	111.00
2	A	749	ASP	N-CA-C	-5.80	95.34	111.00
2	I	749	ASP	N-CA-C	-5.79	95.37	111.00
2	G	2669	GLU	CA-CB-CG	5.70	125.94	113.40
2	I	2669	GLU	CA-CB-CG	5.69	125.93	113.40
2	A	2669	GLU	CA-CB-CG	5.69	125.91	113.40
2	B	2669	GLU	CA-CB-CG	5.68	125.89	113.40
2	I	4159	ARG	CB-CG-CD	5.48	125.84	111.60
2	B	4159	ARG	CB-CG-CD	5.46	125.80	111.60
2	A	4159	ARG	CB-CG-CD	5.45	125.78	111.60
2	G	752	VAL	C-N-CD	5.45	139.84	128.40
2	B	752	VAL	C-N-CD	5.45	139.84	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	4159	ARG	CB-CG-CD	5.44	125.74	111.60
2	I	1425	GLU	CA-CB-CG	5.43	125.35	113.40
2	A	752	VAL	C-N-CD	5.43	139.80	128.40
2	I	752	VAL	C-N-CD	5.42	139.79	128.40
2	A	1425	GLU	CA-CB-CG	5.42	125.31	113.40
2	G	1425	GLU	CA-CB-CG	5.42	125.31	113.40
2	B	1425	GLU	CA-CB-CG	5.42	125.31	113.40
2	I	4097	MET	CG-SD-CE	5.41	108.85	100.20
2	A	3348	ARG	CB-CG-CD	-5.40	97.56	111.60
2	I	3348	ARG	CB-CG-CD	-5.39	97.58	111.60
2	B	3348	ARG	CB-CG-CD	-5.39	97.58	111.60
2	A	4097	MET	CG-SD-CE	5.38	108.82	100.20
2	G	3348	ARG	CB-CG-CD	-5.38	97.60	111.60
2	G	4097	MET	CG-SD-CE	5.37	108.79	100.20
2	B	4097	MET	CG-SD-CE	5.37	108.78	100.20
2	I	4097	MET	CB-CG-SD	5.30	128.31	112.40
2	B	4097	MET	CB-CG-SD	5.30	128.30	112.40
2	G	4097	MET	CB-CG-SD	5.30	128.30	112.40
2	A	4097	MET	CB-CG-SD	5.30	128.29	112.40
2	I	2588	ARG	NE-CZ-NH2	-5.29	117.65	120.30
2	I	439	GLU	CA-CB-CG	5.28	125.01	113.40
2	A	439	GLU	CA-CB-CG	5.25	124.96	113.40
2	G	439	GLU	CA-CB-CG	5.25	124.96	113.40
2	B	439	GLU	CA-CB-CG	5.25	124.96	113.40
2	A	2588	ARG	NE-CZ-NH2	-5.22	117.69	120.30
2	B	2588	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	H	20	GLN	N-CA-C	-5.19	96.99	111.00
1	O	20	GLN	N-CA-C	-5.19	97.00	111.00
1	J	20	GLN	N-CA-C	-5.18	97.02	111.00
2	I	4952	GLU	CA-CB-CG	5.18	124.79	113.40
2	A	4952	GLU	CA-CB-CG	5.17	124.78	113.40
2	G	4952	GLU	CA-CB-CG	5.17	124.78	113.40
2	B	4952	GLU	CA-CB-CG	5.17	124.78	113.40
1	F	20	GLN	N-CA-C	-5.17	97.04	111.00
2	G	2588	ARG	NE-CZ-NH2	-5.15	117.72	120.30
2	B	2575	ARG	NE-CZ-NH1	5.12	122.86	120.30
2	A	2575	ARG	NE-CZ-NH1	5.09	122.84	120.30
2	G	2575	ARG	NE-CZ-NH1	5.09	122.84	120.30
2	I	2575	ARG	NE-CZ-NH1	5.09	122.84	120.30
2	B	748	LEU	CA-CB-CG	5.04	126.89	115.30
2	I	748	LEU	CA-CB-CG	5.04	126.89	115.30
2	G	748	LEU	CA-CB-CG	5.04	126.88	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	748	LEU	CA-CB-CG	5.02	126.84	115.30
2	G	2588	ARG	CD-NE-CZ	5.01	130.62	123.60

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A	4638	TYR	Peptide
2	B	4638	TYR	Peptide
2	G	4638	TYR	Peptide
2	I	4638	TYR	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	818	0	824	36	0
1	H	818	0	824	35	0
1	J	818	0	824	34	0
1	O	818	0	824	36	0
2	A	34293	0	33897	1228	0
2	B	34293	0	33897	1219	0
2	G	34293	0	33897	1242	0
2	I	34293	0	33897	1219	0
3	A	31	0	12	2	0
3	B	31	0	12	2	0
3	G	31	0	12	2	0
3	I	31	0	12	2	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	G	1	0	0	0	0
4	I	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	G	1	0	0	0	0
5	I	1	0	0	0	0
6	A	14	0	10	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	14	0	10	1	0
6	G	14	0	10	1	0
6	I	14	0	10	1	0
All	All	140632	0	138972	4997	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 18.

All (4997) 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:I:3989:VAL:HG23	2:I:4023:MET:CE	1.38	1.52
2:B:3989:VAL:HG23	2:B:4023:MET:CE	1.38	1.51
2:A:3989:VAL:HG23	2:A:4023:MET:CE	1.38	1.49
2:G:3989:VAL:HG23	2:G:4023:MET:CE	1.38	1.49
2:G:2615:ARG:NH2	2:G:2618:MET:HE1	1.16	1.48
2:I:2615:ARG:NH2	2:I:2618:MET:HE1	1.16	1.48
2:G:3051:ARG:NH1	2:G:3052:HIS:HD2	1.16	1.43
2:I:3051:ARG:NH1	2:I:3052:HIS:HD2	1.16	1.42
2:A:3051:ARG:NH1	2:A:3052:HIS:HD2	1.16	1.41
2:I:4092:ASP:HA	2:I:4095:LYS:NZ	1.31	1.41
2:G:2615:ARG:NH2	2:G:2618:MET:CE	1.84	1.40
2:B:4092:ASP:HA	2:B:4095:LYS:NZ	1.31	1.40
2:B:2615:ARG:NH2	2:B:2618:MET:HE1	1.21	1.39
2:G:4092:ASP:HA	2:G:4095:LYS:NZ	1.31	1.39
2:A:4092:ASP:HA	2:A:4095:LYS:NZ	1.31	1.39
2:I:2615:ARG:NH2	2:I:2618:MET:CE	1.84	1.39
2:A:2615:ARG:NH2	2:A:2618:MET:CE	1.84	1.38
2:B:3051:ARG:NH1	2:B:3052:HIS:HD2	1.16	1.36
2:A:2615:ARG:NH2	2:A:2618:MET:HE1	1.10	1.36
2:A:3051:ARG:NH1	2:A:3052:HIS:CD2	1.94	1.36
2:B:2615:ARG:NH2	2:B:2618:MET:CE	1.84	1.35
2:B:3051:ARG:NH1	2:B:3052:HIS:CD2	1.94	1.35
2:I:3051:ARG:NH1	2:I:3052:HIS:CD2	1.94	1.34
2:B:2566:ALA:HA	2:B:2569:PHE:CE1	1.63	1.34
2:A:2566:ALA:HA	2:A:2569:PHE:CE1	1.63	1.34
2:I:2566:ALA:HA	2:I:2569:PHE:CE1	1.63	1.34
2:G:2566:ALA:HA	2:G:2569:PHE:CE1	1.63	1.33
2:G:3051:ARG:NH1	2:G:3052:HIS:CD2	1.94	1.33
2:A:4791:TYR:CE1	2:A:4818:MET:CE	2.13	1.32
2:G:4791:TYR:CE1	2:G:4818:MET:CE	2.13	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4791:TYR:CE1	2:B:4818:MET:CE	2.13	1.31
2:I:4791:TYR:CZ	2:I:4818:MET:HE2	1.65	1.30
2:A:4791:TYR:CZ	2:A:4818:MET:HE2	1.65	1.30
2:B:4791:TYR:CZ	2:B:4818:MET:HE2	1.67	1.29
2:I:4791:TYR:CE1	2:I:4818:MET:CE	2.13	1.29
2:G:4791:TYR:CZ	2:G:4818:MET:HE2	1.67	1.29
2:G:2575:ARG:NH1	2:G:2578:MET:CE	1.98	1.27
2:A:2575:ARG:NH1	2:A:2578:MET:CE	1.98	1.26
2:B:2575:ARG:NH1	2:B:2578:MET:CE	1.98	1.26
2:I:2575:ARG:NH1	2:I:2578:MET:CE	1.98	1.26
2:A:3989:VAL:CG2	2:A:4023:MET:HE2	1.66	1.24
2:B:3309:SER:OG	2:B:3348:ARG:CZ	1.86	1.23
2:A:3309:SER:OG	2:A:3348:ARG:CZ	1.86	1.23
2:I:3309:SER:OG	2:I:3348:ARG:CZ	1.86	1.23
2:G:3309:SER:OG	2:G:3348:ARG:CZ	1.86	1.22
2:G:3201:MET:HE1	2:G:3205:PHE:CD1	1.75	1.20
2:I:3309:SER:CB	2:I:3348:ARG:NH1	2.05	1.20
2:A:3309:SER:CB	2:A:3348:ARG:NH1	2.05	1.20
2:G:4791:TYR:CE1	2:G:4818:MET:HE3	1.75	1.20
2:I:3201:MET:HE1	2:I:3205:PHE:CD1	1.75	1.20
2:G:3309:SER:CB	2:G:3348:ARG:NH1	2.05	1.19
2:B:3309:SER:CB	2:B:3348:ARG:NH1	2.05	1.19
2:A:2788:HIS:CD2	2:A:2790:MET:SD	2.36	1.19
2:B:2788:HIS:CD2	2:B:2790:MET:SD	2.36	1.19
2:I:2788:HIS:CD2	2:I:2790:MET:SD	2.36	1.19
2:A:3201:MET:HE1	2:A:3205:PHE:CD1	1.76	1.18
2:I:4092:ASP:CA	2:I:4095:LYS:HZ3	1.55	1.18
2:G:2788:HIS:CD2	2:G:2790:MET:SD	2.36	1.17
2:G:3989:VAL:CG2	2:G:4023:MET:HE2	1.74	1.16
2:I:2894:LEU:HA	2:I:2897:LYS:HZ2	1.10	1.16
2:I:4791:TYR:CE1	2:I:4818:MET:HE3	1.79	1.16
2:B:3989:VAL:CG2	2:B:4023:MET:HE2	1.74	1.15
2:I:3989:VAL:CG2	2:I:4023:MET:HE2	1.74	1.15
2:B:2816:MET:HE1	2:B:2927:LEU:HD22	1.28	1.15
2:B:4092:ASP:CA	2:B:4095:LYS:NZ	2.10	1.15
2:G:4092:ASP:CA	2:G:4095:LYS:NZ	2.10	1.15
2:B:3201:MET:HE1	2:B:3205:PHE:CD1	1.80	1.15
2:I:2894:LEU:HA	2:I:2897:LYS:NZ	1.62	1.15
2:B:4092:ASP:CA	2:B:4095:LYS:HZ3	1.58	1.14
2:B:3201:MET:HE1	2:B:3205:PHE:HD1	1.06	1.14
2:G:2816:MET:HE1	2:G:2927:LEU:HD22	1.28	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2894:LEU:HA	2:G:2897:LYS:NZ	1.62	1.14
2:G:3201:MET:HE1	2:G:3205:PHE:HD1	0.97	1.14
2:A:2894:LEU:HA	2:A:2897:LYS:NZ	1.62	1.13
2:B:4791:TYR:CE1	2:B:4818:MET:HE3	1.74	1.13
2:A:4092:ASP:CA	2:A:4095:LYS:NZ	2.10	1.13
2:I:4092:ASP:CA	2:I:4095:LYS:NZ	2.10	1.13
2:A:2967:MET:HE1	2:A:3045:LYS:HB2	1.31	1.13
2:G:2566:ALA:O	2:G:2569:PHE:HD1	1.32	1.13
2:G:2615:ARG:CZ	2:G:2618:MET:CE	2.27	1.13
2:B:2894:LEU:HA	2:B:2897:LYS:NZ	1.62	1.12
2:I:2469:ILE:HG22	2:I:2502:MET:HE3	1.30	1.13
2:G:1943:LEU:HD13	2:G:2101:MET:CE	1.79	1.12
2:G:2185:ILE:HD13	2:G:2203:MET:HE3	1.12	1.12
2:B:2566:ALA:O	2:B:2569:PHE:HD1	1.32	1.12
2:I:1943:LEU:HD13	2:I:2101:MET:CE	1.79	1.12
2:A:2566:ALA:O	2:A:2569:PHE:HD1	1.32	1.12
2:B:1943:LEU:HD13	2:B:2101:MET:CE	1.79	1.12
2:B:2185:ILE:HD13	2:B:2203:MET:HE3	1.20	1.12
2:A:2816:MET:HE1	2:A:2927:LEU:HD22	1.31	1.12
2:I:2615:ARG:CZ	2:I:2618:MET:CE	2.27	1.12
2:G:2575:ARG:HH12	2:G:2578:MET:HE1	1.14	1.11
2:B:2615:ARG:CZ	2:B:2618:MET:HE2	1.79	1.11
2:A:1943:LEU:HD13	2:A:2101:MET:CE	1.79	1.11
2:A:2615:ARG:CZ	2:A:2618:MET:CE	2.27	1.11
2:B:2469:ILE:CG2	2:B:2502:MET:CE	2.29	1.11
2:B:2615:ARG:CZ	2:B:2618:MET:CE	2.27	1.11
2:I:1943:LEU:HD13	2:I:2101:MET:HE3	1.31	1.11
2:A:2469:ILE:CG2	2:A:2502:MET:CE	2.29	1.10
2:G:1943:LEU:HD13	2:G:2101:MET:HE3	1.26	1.10
2:G:2894:LEU:HA	2:G:2897:LYS:HZ2	1.10	1.10
2:I:3201:MET:HE1	2:I:3205:PHE:HD1	0.97	1.10
2:B:1943:LEU:HD13	2:B:2101:MET:HE3	1.33	1.10
2:I:2469:ILE:CG2	2:I:2502:MET:CE	2.29	1.10
2:I:2566:ALA:O	2:I:2569:PHE:HD1	1.32	1.10
2:A:1943:LEU:HD13	2:A:2101:MET:HE3	1.26	1.10
2:B:2967:MET:HE1	2:B:3045:LYS:HB2	1.32	1.09
2:A:4961:CYS:SG	2:A:4983:HIS:CE1	2.45	1.09
2:G:2469:ILE:CG2	2:G:2502:MET:CE	2.29	1.09
1:J:2:VAL:HG11	1:J:61:GLU:HG2	1.35	1.09
2:I:2469:ILE:CG2	2:I:2502:MET:HE3	1.82	1.09
2:G:2615:ARG:CZ	2:G:2618:MET:HE2	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2816:MET:HE1	2:I:2927:LEU:HD22	1.35	1.09
2:A:4791:TYR:CE1	2:A:4818:MET:HE3	1.83	1.08
1:F:2:VAL:HG11	1:F:61:GLU:HG2	1.35	1.08
2:A:2894:LEU:HA	2:A:2897:LYS:HZ2	1.10	1.08
2:A:4045:VAL:HG12	2:A:4159:ARG:NE	1.69	1.08
2:G:3989:VAL:CG2	2:G:4023:MET:CE	2.29	1.08
1:H:2:VAL:HG11	1:H:61:GLU:HG2	1.35	1.08
2:A:3201:MET:HE1	2:A:3205:PHE:HD1	0.98	1.07
2:G:4045:VAL:HG12	2:G:4159:ARG:NE	1.69	1.07
2:I:2615:ARG:CZ	2:I:2618:MET:HE2	1.83	1.07
2:I:3327:LEU:HD12	2:I:3368:ARG:HH21	1.16	1.07
2:G:3320:LEU:HD23	2:G:3357:HIS:HB3	1.31	1.07
2:B:3989:VAL:CG2	2:B:4023:MET:CE	2.29	1.07
2:I:2575:ARG:HH12	2:I:2578:MET:HE1	1.18	1.07
2:G:4791:TYR:CZ	2:G:4818:MET:CE	2.36	1.07
2:I:4045:VAL:HG12	2:I:4159:ARG:NE	1.69	1.07
2:B:3051:ARG:HH11	2:B:3052:HIS:CD2	1.64	1.07
2:I:2575:ARG:NH1	2:I:2578:MET:HE3	1.69	1.07
2:B:4045:VAL:HG12	2:B:4159:ARG:NE	1.69	1.07
2:I:2967:MET:HE1	2:I:3045:LYS:HB2	1.37	1.07
2:A:3051:ARG:HH11	2:A:3052:HIS:CD2	1.64	1.06
2:I:3989:VAL:CG2	2:I:4023:MET:CE	2.29	1.06
2:A:2185:ILE:HD13	2:A:2203:MET:HE3	1.07	1.06
2:A:3320:LEU:HD23	2:A:3357:HIS:HB3	1.31	1.06
2:B:4961:CYS:SG	2:B:4983:HIS:CE1	2.45	1.06
2:I:3320:LEU:HD23	2:I:3357:HIS:HB3	1.31	1.06
2:A:2469:ILE:HG22	2:A:2502:MET:HE3	1.36	1.06
2:A:3309:SER:HB2	2:A:3348:ARG:NH1	1.69	1.06
2:G:2967:MET:HE1	2:G:3045:LYS:HB2	1.38	1.06
2:G:3327:LEU:HD12	2:G:3368:ARG:HH21	1.16	1.06
2:I:2185:ILE:HD13	2:I:2203:MET:HE3	1.12	1.06
2:A:4791:TYR:CZ	2:A:4818:MET:CE	2.36	1.06
1:O:2:VAL:HG11	1:O:61:GLU:HG2	1.35	1.06
2:G:4961:CYS:SG	2:G:4983:HIS:CE1	2.45	1.06
2:A:3309:SER:CB	2:A:3348:ARG:CZ	2.34	1.05
2:B:4791:TYR:CZ	2:B:4818:MET:CE	2.36	1.05
2:I:3051:ARG:HH11	2:I:3052:HIS:CD2	1.64	1.05
2:I:4961:CYS:SG	2:I:4983:HIS:CE1	2.45	1.05
2:B:3327:LEU:HD12	2:B:3368:ARG:HH21	1.16	1.05
2:I:3309:SER:HB2	2:I:3348:ARG:NH1	1.69	1.05
2:G:3309:SER:CB	2:G:3348:ARG:CZ	2.35	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3309:SER:CB	2:B:3348:ARG:CZ	2.34	1.05
2:A:2575:ARG:NH1	2:A:2578:MET:HE3	1.71	1.04
2:A:4092:ASP:CA	2:A:4095:LYS:HZ3	1.64	1.04
2:B:2575:ARG:HH12	2:B:2578:MET:HE1	1.16	1.04
2:G:2788:HIS:HD2	2:G:2790:MET:SD	1.76	1.04
2:B:3320:LEU:HD23	2:B:3357:HIS:HB3	1.31	1.04
2:I:2788:HIS:HD2	2:I:2790:MET:SD	1.76	1.04
2:I:2816:MET:HE2	2:I:2927:LEU:HD21	1.39	1.04
2:I:3309:SER:CB	2:I:3348:ARG:CZ	2.34	1.04
2:I:4791:TYR:CZ	2:I:4818:MET:CE	2.36	1.04
2:A:2575:ARG:HH12	2:A:2578:MET:HE1	1.17	1.04
2:G:3051:ARG:HH11	2:G:3052:HIS:CD2	1.64	1.04
2:G:3201:MET:CE	2:G:3205:PHE:CD1	2.41	1.04
2:G:3309:SER:HB2	2:G:3348:ARG:NH1	1.69	1.04
2:B:2894:LEU:HA	2:B:2897:LYS:HZ2	1.11	1.04
2:B:3309:SER:HB2	2:B:3348:ARG:NH1	1.69	1.04
2:A:3327:LEU:HD12	2:A:3368:ARG:HH21	1.16	1.04
2:I:4157:ASP:OD1	2:I:4159:ARG:HG2	1.58	1.04
2:A:3201:MET:CE	2:A:3205:PHE:CD1	2.41	1.03
2:B:2788:HIS:HD2	2:B:2790:MET:SD	1.76	1.03
2:I:2566:ALA:CA	2:I:2569:PHE:HE1	1.71	1.03
2:A:2566:ALA:CA	2:A:2569:PHE:HE1	1.71	1.03
2:B:4157:ASP:OD1	2:B:4159:ARG:HG2	1.58	1.03
2:A:2788:HIS:HD2	2:A:2790:MET:SD	1.76	1.03
2:A:4157:ASP:OD1	2:A:4159:ARG:HG2	1.58	1.03
2:G:2566:ALA:CA	2:G:2569:PHE:HE1	1.71	1.03
2:G:4157:ASP:OD1	2:G:4159:ARG:HG2	1.58	1.03
2:B:2575:ARG:NH1	2:B:2578:MET:HE3	1.72	1.03
2:B:3201:MET:CE	2:B:3205:PHE:CD1	2.41	1.03
2:B:2566:ALA:CA	2:B:2569:PHE:HE1	1.71	1.02
2:A:1943:LEU:CD1	2:A:2101:MET:HE3	1.90	1.02
2:A:2615:ARG:CZ	2:A:2618:MET:HE2	1.88	1.02
2:B:2499:LYS:HG2	2:B:2553:TYR:OH	1.59	1.02
2:I:3201:MET:CE	2:I:3205:PHE:CD1	2.41	1.02
2:G:4092:ASP:CA	2:G:4095:LYS:HZ3	1.69	1.02
2:B:2098:VAL:HA	2:B:2101:MET:HE2	1.41	1.02
2:G:2499:LYS:HG2	2:G:2553:TYR:OH	1.59	1.02
2:I:2098:VAL:HA	2:I:2101:MET:HE2	1.42	1.02
2:A:4650:HIS:HE1	2:A:4812:HIS:CE1	1.78	1.01
2:G:4650:HIS:HE1	2:G:4812:HIS:CE1	1.78	1.01
2:I:4650:HIS:HE1	2:I:4812:HIS:CE1	1.78	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2469:ILE:HG22	2:G:2502:MET:HE3	1.42	1.01
2:I:2499:LYS:HG2	2:I:2553:TYR:OH	1.59	1.01
2:A:3989:VAL:CG2	2:A:4023:MET:CE	2.29	1.01
2:G:1943:LEU:CD1	2:G:2101:MET:HE3	1.90	1.01
2:B:2469:ILE:HG22	2:B:2502:MET:HE3	1.43	1.00
2:A:2098:VAL:HG22	2:A:2101:MET:CE	1.91	1.00
2:A:2499:LYS:HG2	2:A:2553:TYR:OH	1.59	1.00
2:B:4092:ASP:HA	2:B:4095:LYS:HZ2	1.18	1.00
2:B:4650:HIS:HE1	2:B:4812:HIS:CE1	1.78	1.00
2:A:2469:ILE:CG2	2:A:2502:MET:HE3	1.89	1.00
2:G:2816:MET:HE1	2:G:2927:LEU:CD2	1.92	0.99
2:B:2098:VAL:HG22	2:B:2101:MET:CE	1.91	0.99
2:G:2575:ARG:NH1	2:G:2578:MET:HE3	1.74	0.99
2:A:2816:MET:HE2	2:A:2927:LEU:HD21	1.44	0.99
2:G:2098:VAL:HG22	2:G:2101:MET:CE	1.91	0.99
2:I:2098:VAL:HG22	2:I:2101:MET:CE	1.91	0.99
2:B:2566:ALA:O	2:B:2569:PHE:CD1	2.16	0.99
2:G:2469:ILE:HG21	2:G:2502:MET:HE1	1.45	0.99
2:G:2566:ALA:O	2:G:2569:PHE:CD1	2.16	0.99
2:G:2575:ARG:NH1	2:G:2578:MET:HE1	1.71	0.99
2:B:2816:MET:HE1	2:B:2927:LEU:CD2	1.92	0.98
2:B:3051:ARG:HH12	2:B:3052:HIS:CD2	1.73	0.98
2:A:2566:ALA:O	2:A:2569:PHE:CD1	2.16	0.98
2:I:2566:ALA:O	2:I:2569:PHE:CD1	2.16	0.98
2:G:1993:ARG:HB3	2:G:1994:ARG:HH21	1.29	0.97
2:I:4092:ASP:HA	2:I:4095:LYS:HZ2	1.23	0.97
2:A:3068:LEU:HG	2:A:3139:VAL:HG21	1.46	0.97
2:A:4791:TYR:CE1	2:A:4818:MET:HE2	1.91	0.97
2:I:3205:PHE:HE2	2:I:3276:MET:CE	1.78	0.97
2:G:3205:PHE:HE2	2:G:3276:MET:CE	1.78	0.97
2:G:3068:LEU:HG	2:G:3139:VAL:HG21	1.46	0.97
2:I:3068:LEU:HG	2:I:3139:VAL:HG21	1.46	0.97
2:B:1993:ARG:HB3	2:B:1994:ARG:HH21	1.29	0.97
2:B:3068:LEU:HG	2:B:3139:VAL:HG21	1.46	0.97
2:A:3205:PHE:HE2	2:A:3276:MET:CE	1.78	0.96
2:G:3051:ARG:HH12	2:G:3052:HIS:CD2	1.73	0.96
2:B:2816:MET:HE2	2:B:2927:LEU:HD21	1.47	0.96
2:B:2469:ILE:HG21	2:B:2502:MET:HE1	1.43	0.96
2:A:1993:ARG:HB3	2:A:1994:ARG:HH21	1.29	0.96
2:G:2967:MET:HE3	2:G:3045:LYS:HB3	1.42	0.96
2:G:2816:MET:HE2	2:G:2927:LEU:HD21	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2967:MET:HE3	2:I:3045:LYS:HB3	1.44	0.96
2:B:3813:GLN:O	2:B:3899:PHE:HZ	1.49	0.96
2:I:1943:LEU:CD1	2:I:2101:MET:HE3	1.95	0.96
2:I:2816:MET:HE3	2:I:2878:LEU:CD1	1.95	0.96
2:A:2816:MET:HE1	2:A:2927:LEU:CD2	1.96	0.96
2:A:2967:MET:CE	2:A:3045:LYS:CB	2.44	0.96
2:A:2816:MET:HE3	2:A:2878:LEU:CD1	1.96	0.96
2:I:3309:SER:OG	2:I:3348:ARG:NH2	1.98	0.96
2:G:3309:SER:OG	2:G:3348:ARG:NH2	1.98	0.95
2:G:3989:VAL:HG23	2:G:4023:MET:HE1	1.46	0.95
2:B:3205:PHE:HE2	2:B:3276:MET:CE	1.78	0.95
2:G:2967:MET:CE	2:G:3045:LYS:CB	2.44	0.95
2:B:2575:ARG:NH1	2:B:2578:MET:HE1	1.73	0.95
2:I:3989:VAL:HG23	2:I:4023:MET:HE1	1.46	0.95
2:G:2098:VAL:HA	2:G:2101:MET:HE2	1.46	0.95
2:B:2967:MET:CE	2:B:3045:LYS:CB	2.44	0.95
2:B:3309:SER:OG	2:B:3348:ARG:NH2	1.98	0.95
2:B:3989:VAL:HG23	2:B:4023:MET:HE1	1.46	0.95
2:I:2967:MET:CE	2:I:3045:LYS:CB	2.44	0.95
2:G:2816:MET:HE3	2:G:2878:LEU:CD1	1.97	0.95
2:G:4791:TYR:OH	2:G:4818:MET:HE2	1.66	0.95
2:I:1993:ARG:HB3	2:I:1994:ARG:HH21	1.29	0.95
2:I:2472:LEU:HD12	2:I:2473:PRO:HD2	1.49	0.95
2:A:3309:SER:OG	2:A:3348:ARG:NH2	1.98	0.95
2:B:2472:LEU:HD12	2:B:2473:PRO:HD2	1.49	0.94
2:B:2816:MET:HE3	2:B:2878:LEU:CD1	1.97	0.94
2:A:2098:VAL:HA	2:A:2101:MET:HE2	1.46	0.94
2:A:2472:LEU:HD12	2:A:2473:PRO:HD2	1.49	0.94
2:A:4823:LEU:HD11	2:B:4839:MET:HB3	1.49	0.94
2:B:2185:ILE:HD13	2:B:2203:MET:CE	1.97	0.94
2:I:2575:ARG:NH1	2:I:2578:MET:HE1	1.76	0.94
2:A:3201:MET:CE	2:A:3205:PHE:HD1	1.77	0.94
2:B:4791:TYR:OH	2:B:4818:MET:HE2	1.64	0.94
2:I:2816:MET:HE3	2:I:2878:LEU:HD12	1.47	0.94
2:A:2185:ILE:HD13	2:A:2203:MET:CE	1.97	0.94
2:G:2575:ARG:HH11	2:G:2578:MET:CE	1.78	0.94
2:I:3813:GLN:O	2:I:3899:PHE:HZ	1.49	0.94
2:G:2472:LEU:HD12	2:G:2473:PRO:HD2	1.49	0.94
2:G:2185:ILE:HD13	2:G:2203:MET:CE	1.97	0.94
2:G:3813:GLN:O	2:G:3899:PHE:HZ	1.49	0.94
2:B:1943:LEU:CD1	2:B:2101:MET:HE3	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2185:ILE:HD13	2:I:2203:MET:CE	1.97	0.94
2:A:2788:HIS:CD2	2:A:2790:MET:CG	2.52	0.93
2:B:2967:MET:HE3	2:B:3045:LYS:HB3	1.50	0.93
2:A:3813:GLN:O	2:A:3899:PHE:HZ	1.49	0.93
2:A:2967:MET:HE3	2:A:3045:LYS:HE2	1.51	0.93
2:G:2469:ILE:CG2	2:G:2502:MET:HE3	1.97	0.93
2:G:4092:ASP:HA	2:G:4095:LYS:HZ3	1.14	0.93
2:B:2788:HIS:CD2	2:B:2790:MET:CG	2.52	0.93
2:A:3051:ARG:HH12	2:A:3052:HIS:CD2	1.73	0.92
2:I:2788:HIS:CD2	2:I:2790:MET:CG	2.52	0.92
2:A:2575:ARG:HH11	2:A:2578:MET:CE	1.78	0.92
2:B:3201:MET:CE	2:B:3205:PHE:HD1	1.77	0.92
2:I:2469:ILE:HG21	2:I:2502:MET:CE	1.98	0.92
2:A:3107:VAL:HA	2:A:3110:LEU:HD12	1.51	0.92
2:G:2469:ILE:HG22	2:G:2502:MET:CE	1.98	0.92
2:G:3201:MET:CE	2:G:3205:PHE:HD1	1.77	0.92
2:I:2469:ILE:HG22	2:I:2502:MET:CE	1.97	0.92
1:F:19:GLY:HA2	1:F:49:ARG:HH21	1.35	0.92
2:A:2788:HIS:CD2	2:A:2790:MET:HG3	2.05	0.92
2:G:2098:VAL:HG22	2:G:2101:MET:HE1	1.51	0.92
2:G:2788:HIS:CD2	2:G:2790:MET:CG	2.52	0.92
2:G:2788:HIS:CD2	2:G:2790:MET:HG3	2.05	0.92
2:B:2964:LEU:HD21	2:B:3042:LEU:HD12	1.52	0.92
2:I:2788:HIS:CD2	2:I:2790:MET:HG3	2.05	0.92
2:I:2575:ARG:HH11	2:I:2578:MET:CE	1.78	0.92
2:B:3107:VAL:HA	2:B:3110:LEU:HD12	1.51	0.91
2:I:2964:LEU:HD21	2:I:3042:LEU:HD12	1.52	0.91
2:I:3051:ARG:HH12	2:I:3052:HIS:CD2	1.73	0.91
2:A:2967:MET:HE3	2:A:3045:LYS:HB3	1.51	0.91
2:B:2788:HIS:CD2	2:B:2790:MET:HG3	2.05	0.91
2:A:456:SER:HB3	2:A:459:LEU:HD23	1.53	0.91
2:I:2816:MET:CE	2:I:2927:LEU:CD2	2.48	0.91
2:I:3107:VAL:HA	2:I:3110:LEU:HD12	1.51	0.91
2:B:456:SER:HB3	2:B:459:LEU:HD23	1.53	0.91
2:A:2816:MET:CE	2:A:2927:LEU:CD2	2.48	0.91
2:G:456:SER:HB3	2:G:459:LEU:HD23	1.53	0.91
1:O:19:GLY:HA2	1:O:49:ARG:HH21	1.35	0.91
2:G:3107:VAL:HA	2:G:3110:LEU:HD12	1.51	0.91
2:A:2816:MET:HE3	2:A:2878:LEU:HD12	1.51	0.91
2:A:4092:ASP:HA	2:A:4095:LYS:HZ2	1.08	0.91
1:H:19:GLY:HA2	1:H:49:ARG:HH21	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:797:HIS:ND1	2:B:821:LEU:HD23	1.87	0.90
2:B:2575:ARG:HH11	2:B:2578:MET:CE	1.78	0.90
2:B:2816:MET:CE	2:B:2927:LEU:CD2	2.48	0.90
2:B:2967:MET:HE3	2:B:3045:LYS:HE2	1.52	0.90
2:I:456:SER:HB3	2:I:459:LEU:HD23	1.53	0.90
2:A:2469:ILE:HG21	2:A:2502:MET:CE	1.98	0.90
2:G:2469:ILE:HG21	2:G:2502:MET:CE	1.98	0.90
2:I:797:HIS:ND1	2:I:821:LEU:HD23	1.87	0.90
2:B:5013:MET:HE3	2:B:5021:PHE:HB3	1.54	0.90
2:A:3205:PHE:HE2	2:A:3276:MET:HE2	1.32	0.90
2:G:2816:MET:CE	2:G:2927:LEU:CD2	2.48	0.90
2:G:4092:ASP:CB	2:G:4095:LYS:HZ3	1.83	0.90
2:I:3201:MET:CE	2:I:3205:PHE:HD1	1.77	0.90
2:A:2964:LEU:HD21	2:A:3042:LEU:HD12	1.52	0.90
2:A:3836:MET:HE1	2:A:3885:PHE:HE1	1.36	0.90
2:G:2964:LEU:HD21	2:G:3042:LEU:HD12	1.52	0.90
2:I:2816:MET:HE1	2:I:2927:LEU:CD2	2.01	0.89
2:A:4092:ASP:CB	2:A:4095:LYS:HZ3	1.85	0.89
2:A:2185:ILE:CD1	2:A:2203:MET:HE3	2.00	0.89
2:B:3205:PHE:HE2	2:B:3276:MET:HE2	1.35	0.89
2:I:2098:VAL:HG22	2:I:2101:MET:HE1	1.55	0.89
2:I:3205:PHE:HE2	2:I:3276:MET:HE2	1.35	0.89
2:A:459:LEU:HD12	2:A:463:GLU:HG2	1.55	0.89
2:B:2967:MET:CE	2:B:3045:LYS:HB3	2.03	0.89
2:I:2894:LEU:CA	2:I:2897:LYS:NZ	2.36	0.89
2:A:797:HIS:ND1	2:A:821:LEU:HD23	1.87	0.89
2:A:2469:ILE:HG21	2:A:2502:MET:HE1	1.52	0.89
2:G:797:HIS:ND1	2:G:821:LEU:HD23	1.87	0.89
2:A:2566:ALA:HA	2:A:2569:PHE:HE1	0.77	0.89
2:G:2788:HIS:NE2	2:G:2790:MET:CG	2.36	0.89
2:G:3445:TRP:CH2	2:G:3452:LYS:HG2	2.09	0.89
2:B:3718:GLU:OE2	2:B:3723:MET:HE3	1.72	0.89
2:I:3718:GLU:OE2	2:I:3723:MET:HE1	1.73	0.89
2:A:2967:MET:HE1	2:A:3045:LYS:CB	2.02	0.88
2:G:459:LEU:HD12	2:G:463:GLU:HG2	1.55	0.88
2:B:2967:MET:HE1	2:B:3045:LYS:CB	2.03	0.88
2:B:4045:VAL:CG1	2:B:4159:ARG:HE	1.86	0.88
1:J:19:GLY:HA2	1:J:49:ARG:HH21	1.35	0.88
2:B:2816:MET:HE3	2:B:2878:LEU:HD12	1.54	0.88
2:B:2894:LEU:CA	2:B:2897:LYS:NZ	2.36	0.88
2:B:2816:MET:CE	2:B:2927:LEU:HD21	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2098:VAL:HG22	2:A:2101:MET:HE1	1.52	0.88
2:A:2894:LEU:CA	2:A:2897:LYS:NZ	2.36	0.88
2:A:3836:MET:HE1	2:A:3885:PHE:CE1	2.08	0.88
2:G:2566:ALA:HA	2:G:2569:PHE:HE1	0.77	0.88
2:B:459:LEU:HD12	2:B:463:GLU:HG2	1.55	0.88
2:B:3836:MET:HE3	2:B:3885:PHE:CZ	2.08	0.88
2:I:69:LEU:HD21	2:I:202:MET:CE	2.03	0.88
2:I:2967:MET:CE	2:I:3045:LYS:HB3	2.03	0.88
2:I:4045:VAL:CG1	2:I:4159:ARG:HE	1.86	0.88
2:A:2788:HIS:NE2	2:A:2790:MET:CG	2.36	0.88
2:G:69:LEU:HD21	2:G:202:MET:CE	2.04	0.88
2:B:2788:HIS:NE2	2:B:2790:MET:CG	2.36	0.88
2:I:2967:MET:HE3	2:I:3045:LYS:HE2	1.55	0.88
2:A:2816:MET:CE	2:A:2927:LEU:HD21	2.03	0.88
2:A:2967:MET:CE	2:A:3045:LYS:HB2	2.03	0.88
2:I:2816:MET:CE	2:I:2927:LEU:HD21	2.03	0.88
2:G:2967:MET:CE	2:G:3045:LYS:HB3	2.03	0.88
2:B:69:LEU:HD21	2:B:202:MET:CE	2.03	0.88
2:I:2788:HIS:NE2	2:I:2790:MET:CG	2.36	0.88
2:B:2469:ILE:CG2	2:B:2502:MET:HE1	2.00	0.88
2:B:2469:ILE:HG22	2:B:2502:MET:CE	1.98	0.88
2:I:2697:ARG:HA	2:I:2700:MET:HE1	1.54	0.88
2:G:2816:MET:HE3	2:G:2878:LEU:HD12	1.54	0.88
2:G:2894:LEU:CA	2:G:2897:LYS:NZ	2.36	0.88
2:G:2816:MET:CE	2:G:2927:LEU:HD21	2.03	0.88
2:G:4045:VAL:CG1	2:G:4159:ARG:HE	1.86	0.88
2:I:3445:TRP:CH2	2:I:3452:LYS:HG2	2.09	0.88
2:A:3445:TRP:CH2	2:A:3452:LYS:HG2	2.09	0.87
2:A:4045:VAL:CG1	2:A:4159:ARG:HE	1.86	0.87
2:A:4092:ASP:HA	2:A:4095:LYS:HZ3	1.07	0.87
2:I:459:LEU:HD12	2:I:463:GLU:HG2	1.55	0.87
2:G:2967:MET:HE3	2:G:3045:LYS:CB	2.02	0.87
2:A:3718:GLU:OE2	2:A:3723:MET:HE1	1.73	0.87
2:I:3836:MET:HE3	2:I:3885:PHE:CZ	2.09	0.87
2:A:2967:MET:CE	2:A:3045:LYS:HB3	2.03	0.87
2:I:2185:ILE:CD1	2:I:2203:MET:HE3	2.03	0.87
2:A:69:LEU:HD21	2:A:202:MET:CE	2.03	0.87
2:G:3836:MET:HE1	2:G:3885:PHE:HE1	1.38	0.87
2:I:2967:MET:HE3	2:I:3045:LYS:CB	2.03	0.87
2:I:2967:MET:CE	2:I:3045:LYS:HB2	2.03	0.87
2:G:2967:MET:CE	2:G:3045:LYS:HB2	2.03	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2967:MET:HE3	2:G:3045:LYS:HE2	1.56	0.86
2:G:2185:ILE:CD1	2:G:2203:MET:HE3	2.03	0.86
2:G:3205:PHE:HE2	2:G:3276:MET:HE2	1.39	0.86
2:B:4092:ASP:CB	2:B:4095:LYS:HZ3	1.88	0.86
2:A:2697:ARG:HA	2:A:2700:MET:HE1	1.57	0.86
2:B:3445:TRP:CH2	2:B:3452:LYS:HG2	2.09	0.86
2:I:897:ARG:HB2	2:I:903:LEU:HD11	1.58	0.86
2:A:3413:ILE:CD1	2:A:3469:PHE:O	2.24	0.86
2:A:4791:TYR:HE1	2:A:4818:MET:CE	1.89	0.86
2:B:2967:MET:CE	2:B:3045:LYS:HB2	2.03	0.86
2:A:3080:VAL:HG12	2:A:3081:MET:HE3	1.56	0.85
2:G:3836:MET:HE1	2:G:3885:PHE:CE1	2.10	0.85
2:B:2566:ALA:HA	2:B:2569:PHE:HE1	0.77	0.85
2:I:2615:ARG:CZ	2:I:2618:MET:HE1	2.01	0.85
2:A:981:GLN:HG2	2:A:1047:LEU:HD11	1.58	0.85
2:B:2098:VAL:HG22	2:B:2101:MET:HE1	1.55	0.85
2:I:3035:GLU:HA	2:I:3038:MET:HE3	1.57	0.85
2:G:981:GLN:HG2	2:G:1047:LEU:HD11	1.58	0.85
2:I:981:GLN:HG2	2:I:1047:LEU:HD11	1.58	0.85
2:G:3413:ILE:CD1	2:G:3469:PHE:O	2.24	0.85
2:B:981:GLN:HG2	2:B:1047:LEU:HD11	1.58	0.85
2:B:1064:GLU:O	2:B:1071:ARG:NH2	2.10	0.85
2:A:2469:ILE:HG22	2:A:2502:MET:CE	1.98	0.85
2:A:4650:HIS:CE1	2:A:4812:HIS:CE1	2.64	0.85
2:B:3413:ILE:CD1	2:B:3469:PHE:O	2.24	0.85
2:B:3445:TRP:CZ3	2:B:3452:LYS:HG2	2.12	0.85
2:I:2566:ALA:HA	2:I:2569:PHE:HE1	0.77	0.85
2:G:3445:TRP:CZ3	2:G:3452:LYS:HG2	2.12	0.85
2:A:1064:GLU:O	2:A:1071:ARG:NH2	2.10	0.85
2:A:2575:ARG:NH1	2:A:2578:MET:HE1	1.74	0.85
2:B:4650:HIS:CE1	2:B:4812:HIS:CE1	2.64	0.85
2:B:897:ARG:HB2	2:B:903:LEU:HD11	1.58	0.84
2:I:4650:HIS:CE1	2:I:4812:HIS:CE1	2.64	0.84
2:B:2469:ILE:CG2	2:B:2502:MET:HE3	1.99	0.84
2:I:3836:MET:HE1	2:I:3885:PHE:HE1	1.41	0.84
2:I:3413:ILE:CD1	2:I:3469:PHE:O	2.24	0.84
2:I:4791:TYR:OH	2:I:4818:MET:HE2	1.76	0.84
2:B:2469:ILE:HG21	2:B:2502:MET:CE	1.98	0.84
2:I:3141:THR:HG1	2:I:3193:CYS:HG	1.21	0.84
2:A:4839:MET:HB3	2:G:4823:LEU:HD11	1.59	0.84
2:G:3836:MET:HE3	2:G:3885:PHE:CZ	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2697:ARG:HA	2:B:2700:MET:HE1	1.59	0.84
2:A:3445:TRP:CZ3	2:A:3452:LYS:HG2	2.12	0.84
2:A:897:ARG:HB2	2:A:903:LEU:HD11	1.58	0.84
2:G:1064:GLU:O	2:G:1071:ARG:NH2	2.10	0.84
2:G:4839:MET:HB3	2:I:4823:LEU:HD11	1.59	0.84
2:G:2697:ARG:HA	2:G:2700:MET:CE	2.07	0.84
2:I:2469:ILE:HG21	2:I:2502:MET:HE1	1.60	0.84
2:B:3080:VAL:HG12	2:B:3081:MET:CE	2.08	0.83
2:G:4650:HIS:CE1	2:G:4812:HIS:CE1	2.64	0.83
2:I:2310:CYS:SG	2:I:2324:ASN:ND2	2.51	0.83
2:I:3445:TRP:CZ3	2:I:3452:LYS:HG2	2.12	0.83
2:A:2697:ARG:HA	2:A:2700:MET:CE	2.07	0.83
2:A:797:HIS:CE1	2:A:821:LEU:HD23	2.14	0.83
2:A:5013:MET:HE3	2:A:5021:PHE:HB3	1.60	0.83
2:I:5013:MET:HE3	2:I:5021:PHE:HB3	1.61	0.83
2:A:3989:VAL:HG23	2:A:4023:MET:HE1	1.54	0.83
2:G:5013:MET:HE3	2:G:5021:PHE:HB3	1.60	0.83
2:B:4823:LEU:HD11	2:I:4839:MET:HB3	1.61	0.83
2:B:797:HIS:CE1	2:B:821:LEU:HD23	2.14	0.83
2:I:2697:ARG:HA	2:I:2700:MET:CE	2.07	0.83
2:A:2310:CYS:SG	2:A:2324:ASN:ND2	2.51	0.83
2:G:4791:TYR:HE1	2:G:4818:MET:CE	1.89	0.83
2:B:2697:ARG:HA	2:B:2700:MET:CE	2.08	0.83
2:I:2469:ILE:HB	2:I:2502:MET:SD	2.19	0.83
2:I:4045:VAL:CG1	2:I:4159:ARG:NE	2.42	0.83
2:I:3836:MET:CE	2:I:3885:PHE:CE1	2.62	0.83
2:I:4092:ASP:CB	2:I:4095:LYS:HZ3	1.90	0.83
2:G:3080:VAL:HG12	2:G:3081:MET:HE3	1.57	0.83
2:A:4045:VAL:CG1	2:A:4159:ARG:NE	2.42	0.83
2:G:797:HIS:CE1	2:G:821:LEU:HD23	2.14	0.83
2:G:2472:LEU:HD23	2:G:2494:PHE:CE2	2.14	0.83
2:G:3836:MET:CE	2:G:3885:PHE:CE1	2.62	0.82
2:A:2472:LEU:HD23	2:A:2494:PHE:CE2	2.14	0.82
2:G:897:ARG:HB2	2:G:903:LEU:HD11	1.58	0.82
2:B:2469:ILE:HB	2:B:2502:MET:SD	2.19	0.82
2:B:3836:MET:HE1	2:B:3885:PHE:HE1	1.42	0.82
2:I:797:HIS:CE1	2:I:821:LEU:HD23	2.14	0.82
2:A:2469:ILE:HB	2:A:2502:MET:SD	2.19	0.82
2:G:2362:GLU:HA	2:G:2369:ARG:CZ	2.09	0.82
2:G:4092:ASP:HA	2:G:4095:LYS:HZ2	1.02	0.82
2:I:3989:VAL:HG23	2:I:4023:MET:HE2	0.82	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3080:VAL:HG12	2:A:3081:MET:CE	2.08	0.82
2:G:2469:ILE:HB	2:G:2502:MET:SD	2.19	0.82
2:G:4045:VAL:CG1	2:G:4159:ARG:NE	2.42	0.82
2:B:2472:LEU:HD23	2:B:2494:PHE:CE2	2.14	0.82
2:A:2362:GLU:HA	2:A:2369:ARG:CZ	2.09	0.82
2:G:3080:VAL:HG12	2:G:3081:MET:CE	2.08	0.82
2:B:3836:MET:CE	2:B:3885:PHE:CE1	2.62	0.82
2:I:1064:GLU:O	2:I:1071:ARG:NH2	2.10	0.82
2:I:3080:VAL:HG12	2:I:3081:MET:CE	2.08	0.82
2:A:3836:MET:CE	2:A:3885:PHE:CE1	2.62	0.82
2:B:2310:CYS:SG	2:B:2324:ASN:ND2	2.51	0.82
2:B:3989:VAL:HG23	2:B:4023:MET:HE2	0.83	0.82
2:B:4045:VAL:CG1	2:B:4159:ARG:NE	2.42	0.82
2:I:2362:GLU:HA	2:I:2369:ARG:CZ	2.10	0.82
2:B:2362:GLU:HA	2:B:2369:ARG:CZ	2.09	0.82
2:A:3035:GLU:HA	2:A:3038:MET:HE3	1.61	0.81
2:G:3989:VAL:HG23	2:G:4023:MET:HE2	0.82	0.81
2:G:2472:LEU:CD1	2:G:2473:PRO:HD2	2.10	0.81
2:I:3057:PHE:HB3	2:I:3060:ASP:HB2	1.63	0.81
2:A:3057:PHE:HB3	2:A:3060:ASP:HB2	1.63	0.81
2:G:2310:CYS:SG	2:G:2324:ASN:ND2	2.51	0.81
2:G:3413:ILE:HD11	2:G:3469:PHE:O	1.81	0.81
2:I:2472:LEU:HD23	2:I:2494:PHE:CE2	2.14	0.81
2:A:2908:TYR:HA	2:A:2911:LEU:HD23	1.63	0.81
2:B:2472:LEU:CD1	2:B:2473:PRO:HD2	2.10	0.81
2:I:3327:LEU:HD12	2:I:3368:ARG:NH2	1.96	0.81
2:A:3836:MET:HE3	2:A:3885:PHE:CZ	2.14	0.81
2:G:3327:LEU:HD12	2:G:3368:ARG:NH2	1.96	0.81
2:B:2155:LEU:HD11	2:B:2198:MET:HE3	1.63	0.81
2:I:3162:GLN:HG3	2:I:3218:VAL:HG13	1.62	0.81
2:A:2155:LEU:HD11	2:A:2198:MET:HE3	1.63	0.81
2:A:3162:GLN:HG3	2:A:3218:VAL:HG13	1.63	0.81
2:G:3162:GLN:HG3	2:G:3218:VAL:HG13	1.63	0.81
2:B:1943:LEU:HD13	2:B:2101:MET:HE1	1.61	0.81
2:B:3327:LEU:HD12	2:B:3368:ARG:NH2	1.96	0.81
2:A:3327:LEU:HD12	2:A:3368:ARG:NH2	1.96	0.81
2:I:3836:MET:HE1	2:I:3885:PHE:CE1	2.15	0.81
2:B:2185:ILE:CD1	2:B:2203:MET:HE3	2.08	0.81
2:B:3201:MET:SD	2:B:3203:VAL:HG12	2.21	0.81
2:A:2615:ARG:CZ	2:A:2618:MET:HE1	1.96	0.81
2:A:3201:MET:SD	2:A:3203:VAL:HG12	2.21	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3413:ILE:HD11	2:A:3469:PHE:O	1.81	0.81
2:G:2908:TYR:HA	2:G:2911:LEU:HD23	1.63	0.81
2:G:3057:PHE:HB3	2:G:3060:ASP:HB2	1.63	0.81
2:B:3057:PHE:HB3	2:B:3060:ASP:HB2	1.63	0.81
2:A:2472:LEU:CD1	2:A:2473:PRO:HD2	2.10	0.80
2:B:3413:ILE:HD11	2:B:3469:PHE:O	1.81	0.80
2:I:3413:ILE:HD11	2:I:3469:PHE:O	1.81	0.80
2:B:2908:TYR:HA	2:B:2911:LEU:HD23	1.63	0.80
2:I:2908:TYR:HA	2:I:2911:LEU:HD23	1.63	0.80
2:I:1943:LEU:HD13	2:I:2101:MET:HE1	1.62	0.80
2:B:2615:ARG:HH21	2:B:2618:MET:HE1	0.99	0.80
2:I:2472:LEU:CD1	2:I:2473:PRO:HD2	2.10	0.80
2:G:3201:MET:SD	2:G:3203:VAL:HG12	2.21	0.80
2:B:3205:PHE:CE2	2:B:3276:MET:CE	2.64	0.80
2:B:3989:VAL:CG2	2:B:4023:MET:HE1	2.08	0.80
2:I:3197:LEU:O	2:I:3197:LEU:HD23	1.83	0.79
2:I:3201:MET:SD	2:I:3203:VAL:HG12	2.21	0.79
2:I:4791:TYR:HE1	2:I:4818:MET:CE	1.89	0.79
2:A:3141:THR:OG1	2:A:3193:CYS:SG	2.40	0.79
2:G:3141:THR:OG1	2:G:3193:CYS:SG	2.40	0.79
2:B:3309:SER:HB2	2:B:3348:ARG:CZ	2.09	0.79
2:B:3162:GLN:HG3	2:B:3218:VAL:HG13	1.63	0.79
2:A:2469:ILE:CG2	2:A:2502:MET:HE1	2.10	0.79
2:B:3141:THR:OG1	2:B:3193:CYS:SG	2.40	0.79
2:A:2321:ILE:HG13	2:A:2322:GLY:H	1.48	0.79
2:A:3205:PHE:CE2	2:A:3276:MET:CE	2.64	0.79
2:B:2321:ILE:HG13	2:B:2322:GLY:H	1.48	0.79
2:B:3104:GLU:O	2:B:3108:GLU:HG2	1.83	0.79
2:B:3836:MET:HE1	2:B:3885:PHE:CE1	2.17	0.79
2:I:3141:THR:OG1	2:I:3193:CYS:SG	2.40	0.79
2:I:3205:PHE:CE2	2:I:3276:MET:CE	2.64	0.79
2:A:3104:GLU:O	2:A:3108:GLU:HG2	1.83	0.79
2:I:3104:GLU:O	2:I:3108:GLU:HG2	1.83	0.79
2:G:3104:GLU:O	2:G:3108:GLU:HG2	1.83	0.79
2:G:3197:LEU:O	2:G:3197:LEU:HD23	1.83	0.79
2:G:3205:PHE:CE2	2:G:3276:MET:CE	2.64	0.78
2:A:4049:VAL:HG21	2:A:4159:ARG:HD2	1.64	0.78
2:B:4092:ASP:HA	2:B:4095:LYS:HZ3	0.97	0.78
2:I:1943:LEU:CD1	2:I:2101:MET:CE	2.57	0.78
2:I:3309:SER:HB2	2:I:3348:ARG:CZ	2.09	0.78
2:G:2377:LEU:HA	2:G:2469:ILE:HD11	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3327:LEU:HD21	2:G:3364:ARG:NH1	1.98	0.78
2:A:3197:LEU:O	2:A:3197:LEU:HD23	1.83	0.78
2:G:3150:HIS:HB2	2:G:3152:PHE:CE1	2.18	0.78
2:I:2867:LEU:HD13	2:I:2928:LYS:HA	1.65	0.78
2:A:4823:LEU:CD1	2:B:4839:MET:HB3	2.14	0.78
2:B:1943:LEU:CD1	2:B:2101:MET:CE	2.57	0.78
2:B:3150:HIS:HB2	2:B:3152:PHE:CE1	2.18	0.78
2:I:4049:VAL:HG21	2:I:4159:ARG:HD2	1.64	0.78
2:A:2867:LEU:HD13	2:A:2928:LYS:HA	1.65	0.78
2:G:2697:ARG:HA	2:G:2700:MET:HE1	1.62	0.78
2:B:2595:LEU:HD22	2:B:2599:GLN:CD	2.04	0.78
2:B:3327:LEU:HD21	2:B:3364:ARG:NH1	1.98	0.78
2:A:1947:CYS:SG	2:A:2127:GLN:NE2	2.57	0.78
2:A:3150:HIS:HB2	2:A:3152:PHE:CE1	2.18	0.78
2:G:2615:ARG:HH21	2:G:2618:MET:HE1	0.97	0.78
2:G:3050:VAL:HG22	2:G:3057:PHE:HE2	1.49	0.78
2:B:3080:VAL:HG12	2:B:3081:MET:HE3	1.65	0.78
2:B:3197:LEU:O	2:B:3197:LEU:HD23	1.83	0.78
2:B:4049:VAL:HG21	2:B:4159:ARG:HD2	1.64	0.78
2:I:2615:ARG:HH21	2:I:2618:MET:HE1	0.97	0.78
2:A:2377:LEU:HA	2:A:2469:ILE:HD11	1.66	0.78
2:I:2321:ILE:HG13	2:I:2322:GLY:H	1.48	0.78
2:I:2967:MET:HE1	2:I:3045:LYS:CB	2.09	0.78
2:I:3187:ARG:NH1	2:I:3267:PRO:HB2	1.99	0.78
2:I:3989:VAL:CG2	2:I:4023:MET:HE1	2.08	0.78
2:B:2500:ALA:N	2:B:2553:TYR:HE1	1.82	0.78
2:I:2595:LEU:HD22	2:I:2599:GLN:CD	2.04	0.78
2:I:3080:VAL:HG12	2:I:3081:MET:HE3	1.65	0.78
2:A:4045:VAL:HG12	2:A:4159:ARG:HE	1.46	0.78
2:I:3150:HIS:HB2	2:I:3152:PHE:CE1	2.18	0.78
2:I:3395:ARG:HH21	2:I:3454:GLU:HB2	1.49	0.78
2:G:2595:LEU:HD22	2:G:2599:GLN:CD	2.04	0.77
2:B:2967:MET:HE3	2:B:3045:LYS:CB	2.09	0.77
2:I:1947:CYS:SG	2:I:2127:GLN:NE2	2.57	0.77
2:I:3050:VAL:HG22	2:I:3057:PHE:HE2	1.49	0.77
2:G:2867:LEU:HD13	2:G:2928:LYS:HA	1.65	0.77
2:G:3187:ARG:NH1	2:G:3267:PRO:HB2	1.99	0.77
2:I:3327:LEU:HD21	2:I:3364:ARG:NH1	1.98	0.77
2:A:3327:LEU:HD21	2:A:3364:ARG:NH1	1.98	0.77
2:A:4060:LYS:HE3	2:A:4107:GLU:OE1	1.84	0.77
2:B:2377:LEU:HA	2:B:2469:ILE:HD11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1947:CYS:SG	2:G:2127:GLN:NE2	2.57	0.77
2:G:2321:ILE:HG13	2:G:2322:GLY:H	1.48	0.77
2:G:3035:GLU:HA	2:G:3038:MET:HE3	1.65	0.77
2:G:3718:GLU:OE2	2:G:3723:MET:HE1	1.85	0.77
2:A:2595:LEU:HD22	2:A:2599:GLN:CD	2.04	0.77
2:G:4060:LYS:HE3	2:G:4107:GLU:OE1	1.84	0.77
2:B:1947:CYS:SG	2:B:2127:GLN:NE2	2.57	0.77
2:B:3035:GLU:HA	2:B:3038:MET:HE3	1.65	0.77
2:B:3050:VAL:HG22	2:B:3057:PHE:HE2	1.49	0.77
2:I:4092:ASP:CB	2:I:4095:LYS:NZ	2.47	0.77
2:A:2500:ALA:N	2:A:2553:TYR:HE1	1.82	0.77
2:A:3395:ARG:HH21	2:A:3454:GLU:HB2	1.49	0.77
2:G:3989:VAL:CG2	2:G:4023:MET:HE1	2.08	0.77
2:G:4049:VAL:HG21	2:G:4159:ARG:HD2	1.64	0.77
2:I:2377:LEU:HA	2:I:2469:ILE:HD11	1.66	0.77
2:A:3050:VAL:HG22	2:A:3057:PHE:HE2	1.49	0.77
2:A:1699:GLU:OE2	2:A:1813:ARG:NH1	2.18	0.77
2:A:3187:ARG:NH1	2:A:3267:PRO:HB2	1.99	0.77
2:B:2867:LEU:HD13	2:B:2928:LYS:HA	1.65	0.77
1:F:58:GLY:HA2	1:F:61:GLU:CD	2.06	0.76
2:A:2615:ARG:HH21	2:A:2618:MET:HE1	0.97	0.76
2:A:2967:MET:HE3	2:A:3045:LYS:CB	2.11	0.76
2:G:3395:ARG:HH21	2:G:3454:GLU:HB2	1.49	0.76
1:H:58:GLY:HA2	1:H:61:GLU:CD	2.06	0.76
1:J:2:VAL:CG1	1:J:61:GLU:HG2	2.15	0.76
1:O:2:VAL:CG1	1:O:61:GLU:HG2	2.15	0.76
2:A:4791:TYR:OH	2:A:4818:MET:HE2	1.85	0.76
2:B:2551:ASN:HB3	2:B:2599:GLN:HE22	1.50	0.76
1:F:2:VAL:CG1	1:F:61:GLU:HG2	2.15	0.76
2:A:3309:SER:HB2	2:A:3348:ARG:CZ	2.09	0.76
2:G:1228:ILE:HG22	2:G:1827:ARG:HH11	1.51	0.76
2:G:2500:ALA:N	2:G:2553:TYR:HE1	1.82	0.76
2:B:4796:MET:CE	2:B:4800:LEU:HG	2.16	0.76
2:B:4060:LYS:HE3	2:B:4107:GLU:OE1	1.84	0.76
2:I:2500:ALA:N	2:I:2553:TYR:HE1	1.82	0.76
2:G:1024:TYR:O	2:G:1032:LYS:NZ	2.19	0.76
2:B:2959:PHE:CE2	2:B:2963:LEU:HD11	2.20	0.76
2:B:4092:ASP:CB	2:B:4095:LYS:NZ	2.47	0.76
2:I:4060:LYS:HE3	2:I:4107:GLU:OE1	1.84	0.76
2:G:2959:PHE:CE2	2:G:2963:LEU:HD11	2.20	0.76
2:A:2551:ASN:HB3	2:A:2599:GLN:HE22	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2959:PHE:CE2	2:A:2963:LEU:HD11	2.20	0.76
2:G:2469:ILE:CG2	2:G:2502:MET:HE1	2.02	0.76
2:B:3187:ARG:NH1	2:B:3267:PRO:HB2	1.99	0.76
2:A:1228:ILE:HG22	2:A:1827:ARG:HH11	1.51	0.75
2:G:1943:LEU:CD1	2:G:2101:MET:CE	2.57	0.75
2:B:1024:TYR:O	2:B:1032:LYS:NZ	2.19	0.75
2:B:1228:ILE:HG22	2:B:1827:ARG:HH11	1.51	0.75
1:H:2:VAL:CG1	1:H:61:GLU:HG2	2.15	0.75
1:O:58:GLY:HA2	1:O:61:GLU:CD	2.06	0.75
2:G:1699:GLU:OE2	2:G:1813:ARG:NH1	2.18	0.75
2:B:3395:ARG:HH21	2:B:3454:GLU:HB2	1.49	0.75
2:I:1699:GLU:OE2	2:I:1813:ARG:NH1	2.18	0.75
2:A:3219:TYR:OH	2:A:3233:PRO:O	2.03	0.75
1:J:58:GLY:HA2	1:J:61:GLU:CD	2.06	0.75
2:B:1699:GLU:OE2	2:B:1813:ARG:NH1	2.18	0.75
2:G:3219:TYR:OH	2:G:3233:PRO:O	2.03	0.75
2:A:2283:ASN:HD22	2:A:2286:LEU:HD12	1.52	0.75
2:G:3309:SER:HB2	2:G:3348:ARG:HH11	1.49	0.75
2:I:2155:LEU:HD11	2:I:2198:MET:HE3	1.67	0.75
2:A:1024:TYR:O	2:A:1032:LYS:NZ	2.19	0.75
2:G:3205:PHE:CE2	2:G:3276:MET:HE3	2.20	0.75
2:G:3309:SER:HB2	2:G:3348:ARG:CZ	2.09	0.75
2:B:2283:ASN:HD22	2:B:2286:LEU:HD12	1.52	0.75
2:B:3219:TYR:OH	2:B:3233:PRO:O	2.03	0.75
2:I:1024:TYR:O	2:I:1032:LYS:NZ	2.19	0.75
2:I:3219:TYR:OH	2:I:3233:PRO:O	2.03	0.75
2:G:3416:VAL:HG21	2:G:3517:MET:HE2	1.69	0.75
2:B:3425:THR:HG23	2:B:3426:GLU:HG2	1.69	0.75
2:A:5013:MET:CE	2:A:5021:PHE:HB3	2.17	0.75
2:G:2155:LEU:HD11	2:G:2198:MET:HE3	1.68	0.75
2:G:4796:MET:CE	2:G:4800:LEU:HG	2.16	0.75
2:B:2566:ALA:CA	2:B:2569:PHE:CE1	2.56	0.75
2:I:2959:PHE:CE2	2:I:2963:LEU:HD11	2.20	0.75
2:I:3416:VAL:HG21	2:I:3517:MET:HE2	1.68	0.75
2:A:2967:MET:CE	2:A:3045:LYS:HE2	2.16	0.74
2:A:3309:SER:HB2	2:A:3348:ARG:HH11	1.49	0.74
2:A:3425:THR:HG23	2:A:3426:GLU:HG2	1.69	0.74
2:A:4796:MET:CE	2:A:4800:LEU:HG	2.16	0.74
2:G:2551:ASN:HB3	2:G:2599:GLN:HE22	1.50	0.74
2:I:3425:THR:HG23	2:I:3426:GLU:HG2	1.69	0.74
2:A:1943:LEU:HD13	2:A:2101:MET:HE1	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4092:ASP:CB	2:A:4095:LYS:NZ	2.47	0.74
2:G:3425:THR:HG23	2:G:3426:GLU:HG2	1.69	0.74
1:H:2:VAL:HG11	1:H:61:GLU:CG	2.15	0.74
2:I:2283:ASN:HD22	2:I:2286:LEU:HD12	1.52	0.74
2:I:2551:ASN:HB3	2:I:2599:GLN:HE22	1.50	0.74
2:I:4796:MET:CE	2:I:4800:LEU:HG	2.16	0.74
2:I:5013:MET:CE	2:I:5021:PHE:HB3	2.17	0.74
2:A:3416:VAL:HG21	2:A:3517:MET:HE2	1.69	0.74
2:G:2816:MET:CE	2:G:2878:LEU:HD12	2.17	0.74
2:B:276:TRP:O	2:B:328:LYS:NZ	2.20	0.74
2:B:2098:VAL:HG22	2:B:2101:MET:HE2	1.70	0.74
2:I:1228:ILE:HG22	2:I:1827:ARG:HH11	1.51	0.74
2:I:3035:GLU:HA	2:I:3038:MET:CE	2.17	0.74
2:G:5013:MET:CE	2:G:5021:PHE:HB3	2.17	0.74
2:I:4795:TYR:CE1	2:I:4812:HIS:ND1	2.56	0.74
2:G:4795:TYR:CE1	2:G:4812:HIS:ND1	2.56	0.74
2:B:4791:TYR:HE1	2:B:4818:MET:CE	1.89	0.74
2:I:2967:MET:CE	2:I:3045:LYS:HE2	2.16	0.74
1:J:2:VAL:HG11	1:J:61:GLU:CG	2.15	0.74
2:G:2967:MET:CE	2:G:3045:LYS:HE2	2.16	0.74
2:B:978:THR:OG1	2:B:981:GLN:OE1	2.06	0.74
2:B:2527:LEU:HA	2:B:2530:MET:HE3	1.69	0.74
2:B:2967:MET:CE	2:B:3045:LYS:HE2	2.16	0.74
2:I:978:THR:OG1	2:I:981:GLN:OE1	2.06	0.74
2:A:2816:MET:CE	2:A:2878:LEU:CD1	2.66	0.73
2:A:3309:SER:HB3	2:A:3348:ARG:NH1	2.01	0.73
2:A:475:GLN:OE1	2:A:533:ASN:ND2	2.21	0.73
2:A:1943:LEU:CD1	2:A:2101:MET:CE	2.57	0.73
2:A:3035:GLU:HA	2:A:3038:MET:CE	2.17	0.73
2:G:1943:LEU:HD13	2:G:2101:MET:HE1	1.68	0.73
2:G:2283:ASN:HD22	2:G:2286:LEU:HD12	1.52	0.73
2:G:2500:ALA:CA	2:G:2553:TYR:HE1	2.01	0.73
2:B:475:GLN:OE1	2:B:533:ASN:ND2	2.21	0.73
2:B:2309:SER:OG	2:B:2320:ASP:OD1	2.06	0.73
2:B:2500:ALA:CA	2:B:2553:TYR:HE1	2.01	0.73
2:B:3035:GLU:HA	2:B:3038:MET:CE	2.17	0.73
2:B:4948:GLU:HA	2:B:4951:LYS:CD	2.18	0.73
2:I:3309:SER:HB3	2:I:3348:ARG:NH1	2.01	0.73
2:G:475:GLN:OE1	2:G:533:ASN:ND2	2.21	0.73
2:G:3281:LEU:HB3	2:G:3312:LEU:HD21	1.70	0.73
2:B:2816:MET:CE	2:B:2878:LEU:HD12	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3309:SER:HB3	2:B:3348:ARG:NH1	2.01	0.73
2:A:4634:GLU:HG3	2:A:4639:MET:HG2	1.70	0.73
2:A:4795:TYR:CE1	2:A:4812:HIS:ND1	2.56	0.73
2:G:320:LYS:NZ	2:G:383:HIS:O	2.22	0.73
2:G:3051:ARG:HH11	2:G:3052:HIS:HD2	0.73	0.73
2:A:2739:PRO:HB3	2:A:2888:ARG:HG3	1.71	0.73
2:A:2816:MET:CE	2:A:2878:LEU:HD12	2.17	0.73
2:A:4948:GLU:HA	2:A:4951:LYS:CD	2.18	0.73
2:G:2309:SER:OG	2:G:2320:ASP:OD1	2.06	0.73
2:G:2466:LEU:HD21	2:G:2506:LEU:HB2	1.70	0.73
2:I:4092:ASP:HA	2:I:4095:LYS:HZ3	0.92	0.73
2:I:4948:GLU:HA	2:I:4951:LYS:CD	2.18	0.73
2:A:3281:LEU:HB3	2:A:3312:LEU:HD21	1.70	0.73
2:G:3035:GLU:HA	2:G:3038:MET:CE	2.17	0.73
2:B:4795:TYR:CE1	2:B:4812:HIS:ND1	2.56	0.73
2:I:475:GLN:OE1	2:I:533:ASN:ND2	2.21	0.73
2:B:2615:ARG:NH2	2:B:2618:MET:HE2	1.82	0.73
2:B:3205:PHE:CE2	2:B:3276:MET:HE3	2.23	0.73
2:B:3842:LEU:HD13	2:B:3954:ALA:HB2	1.71	0.73
2:I:4634:GLU:HG3	2:I:4639:MET:HG2	1.70	0.73
2:A:3934:TYR:HA	2:A:3999:MET:HE2	1.71	0.73
2:G:2739:PRO:HB3	2:G:2888:ARG:HG3	1.71	0.73
2:G:2816:MET:CE	2:G:2878:LEU:CD1	2.66	0.73
2:B:2816:MET:CE	2:B:2878:LEU:CD1	2.66	0.73
2:B:5013:MET:CE	2:B:5021:PHE:HB3	2.17	0.73
2:I:2816:MET:CE	2:I:2878:LEU:CD1	2.66	0.73
2:A:3989:VAL:HG23	2:A:4023:MET:HE2	0.73	0.73
2:G:2472:LEU:HD12	2:G:2473:PRO:CD	2.19	0.73
2:G:3309:SER:HB3	2:G:3348:ARG:NH1	2.02	0.73
2:I:3309:SER:HB2	2:I:3348:ARG:HH11	1.49	0.73
2:B:320:LYS:NZ	2:B:383:HIS:O	2.22	0.72
2:B:3416:VAL:HG21	2:B:3517:MET:HE2	1.71	0.72
2:I:2466:LEU:HD21	2:I:2506:LEU:HB2	1.70	0.72
2:A:2466:LEU:HD21	2:A:2506:LEU:HB2	1.69	0.72
2:I:2816:MET:CE	2:I:2878:LEU:HD12	2.17	0.72
2:I:3051:ARG:HH11	2:I:3052:HIS:HD2	0.73	0.72
2:G:978:THR:OG1	2:G:981:GLN:OE1	2.06	0.72
2:G:4948:GLU:HA	2:G:4951:LYS:CD	2.18	0.72
2:B:2472:LEU:HD12	2:B:2473:PRO:CD	2.19	0.72
2:I:2098:VAL:HG22	2:I:2101:MET:HE2	1.71	0.72
2:B:2739:PRO:HB3	2:B:2888:ARG:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2566:ALA:CA	2:I:2569:PHE:CE1	2.56	0.72
1:F:2:VAL:HG11	1:F:61:GLU:CG	2.15	0.72
2:A:276:TRP:O	2:A:328:LYS:NZ	2.20	0.72
2:A:2500:ALA:CA	2:A:2553:TYR:HE1	2.01	0.72
2:A:2527:LEU:HA	2:A:2530:MET:HE3	1.72	0.72
2:B:2466:LEU:HD21	2:B:2506:LEU:HB2	1.70	0.72
2:I:2309:SER:OG	2:I:2320:ASP:OD1	2.06	0.72
2:I:2739:PRO:HB3	2:I:2888:ARG:HG3	1.71	0.72
2:A:978:THR:OG1	2:A:981:GLN:OE1	2.06	0.72
2:A:4839:MET:HB3	2:G:4823:LEU:CD1	2.18	0.72
2:G:4092:ASP:CB	2:G:4095:LYS:NZ	2.47	0.72
2:I:3205:PHE:CE2	2:I:3276:MET:HE3	2.23	0.72
2:I:2527:LEU:HA	2:I:2530:MET:HE3	1.72	0.72
2:I:3281:LEU:HB3	2:I:3312:LEU:HD21	1.70	0.72
2:A:320:LYS:NZ	2:A:383:HIS:O	2.22	0.72
2:A:2309:SER:OG	2:A:2320:ASP:OD1	2.06	0.72
2:A:3051:ARG:HH11	2:A:3052:HIS:HD2	0.73	0.72
2:G:180:LEU:HB3	2:G:200:TRP:HE1	1.55	0.72
2:G:3842:LEU:HD13	2:G:3954:ALA:HB2	1.71	0.72
2:G:4634:GLU:HG3	2:G:4639:MET:HG2	1.70	0.72
2:B:180:LEU:HB3	2:B:200:TRP:HE1	1.55	0.72
2:B:3281:LEU:HB3	2:B:3312:LEU:HD21	1.70	0.72
2:I:2472:LEU:HD12	2:I:2473:PRO:CD	2.19	0.72
2:I:2579:VAL:O	2:I:2583:LEU:HG	1.90	0.72
2:I:3934:TYR:HA	2:I:3999:MET:HE2	1.72	0.72
2:B:2579:VAL:O	2:B:2583:LEU:HG	1.90	0.72
2:I:2500:ALA:CA	2:I:2553:TYR:HE1	2.01	0.72
2:G:2579:VAL:O	2:G:2583:LEU:HG	1.90	0.71
2:B:3309:SER:HB2	2:B:3348:ARG:HH11	1.49	0.71
2:I:4157:ASP:OD1	2:I:4159:ARG:CG	2.37	0.71
2:A:2579:VAL:O	2:A:2583:LEU:HG	1.90	0.71
2:G:4092:ASP:CA	2:G:4095:LYS:HZ2	1.85	0.71
2:B:3051:ARG:HH11	2:B:3052:HIS:HD2	0.73	0.71
2:B:4634:GLU:HG3	2:B:4639:MET:HG2	1.70	0.71
2:B:4638:TYR:HA	2:B:4641:PRO:HD2	1.73	0.71
2:I:180:LEU:HB3	2:I:200:TRP:HE1	1.55	0.71
2:I:3842:LEU:HD13	2:I:3954:ALA:HB2	1.71	0.71
2:B:3943:ILE:HD11	2:B:4002:LYS:HE3	1.72	0.71
2:A:4092:ASP:CA	2:A:4095:LYS:HZ2	1.90	0.71
2:A:4157:ASP:OD1	2:A:4159:ARG:CG	2.37	0.71
2:A:4638:TYR:HA	2:A:4641:PRO:HD2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2098:VAL:CA	2:B:2101:MET:HE2	2.20	0.71
2:I:320:LYS:NZ	2:I:383:HIS:O	2.22	0.71
2:A:2024:PRO:HD2	2:A:2027:ILE:HD12	1.73	0.71
2:A:2472:LEU:HD12	2:A:2473:PRO:CD	2.19	0.71
2:B:2906:VAL:HG23	2:B:2911:LEU:HD22	1.72	0.71
1:O:2:VAL:HG11	1:O:61:GLU:CG	2.15	0.71
2:G:2566:ALA:CA	2:G:2569:PHE:CE1	2.56	0.71
1:O:31:GLN:HA	1:O:98:ILE:CD1	2.21	0.71
2:I:2469:ILE:HG21	2:I:2502:MET:HE3	1.68	0.71
2:A:2566:ALA:CA	2:A:2569:PHE:CE1	2.56	0.70
2:B:2024:PRO:HD2	2:B:2027:ILE:HD12	1.73	0.70
2:I:2584:HIS:CD2	2:I:2625:ARG:HD2	2.26	0.70
2:I:4791:TYR:OH	2:I:4815:ASP:OD1	2.08	0.70
2:G:4791:TYR:OH	2:G:4815:ASP:OD1	2.08	0.70
2:B:3627:GLN:NE2	2:B:3859:VAL:O	2.24	0.70
2:I:2751:LEU:HG	2:I:2754:PHE:HB3	1.73	0.70
2:A:180:LEU:HB3	2:A:200:TRP:HE1	1.55	0.70
2:A:1993:ARG:CB	2:A:1994:ARG:HH21	2.04	0.70
2:A:3842:LEU:HD13	2:A:3954:ALA:HB2	1.71	0.70
2:G:3205:PHE:HE2	2:G:3276:MET:HE3	1.54	0.70
2:G:3627:GLN:NE2	2:G:3859:VAL:O	2.24	0.70
2:G:3934:TYR:HA	2:G:3999:MET:HE2	1.73	0.70
2:G:3943:ILE:HD11	2:G:4002:LYS:HE3	1.72	0.70
2:I:3627:GLN:NE2	2:I:3859:VAL:O	2.24	0.70
2:A:3141:THR:HG1	2:A:3193:CYS:HG	1.38	0.70
1:J:31:GLN:HA	1:J:98:ILE:CD1	2.21	0.70
2:G:4638:TYR:HA	2:G:4641:PRO:HD2	1.73	0.70
2:B:3227:ARG:HA	2:B:3232:LEU:HD13	1.74	0.70
2:I:3943:ILE:HD11	2:I:4002:LYS:HE3	1.72	0.70
2:A:29:LEU:O	2:A:31:GLU:OE1	2.10	0.70
2:A:2584:HIS:CD2	2:A:2625:ARG:HD2	2.26	0.70
1:J:58:GLY:HA2	1:J:61:GLU:OE2	1.92	0.70
1:O:58:GLY:HA2	1:O:61:GLU:OE2	1.92	0.70
2:G:2024:PRO:HD2	2:G:2027:ILE:HD12	1.73	0.70
2:B:1993:ARG:CB	2:B:1994:ARG:HH21	2.04	0.70
2:B:4157:ASP:OD1	2:B:4159:ARG:CG	2.37	0.70
2:I:2098:VAL:HA	2:I:2101:MET:CE	2.21	0.70
2:A:707:VAL:HG23	2:A:782:SER:HB3	1.73	0.70
2:A:3943:ILE:HD11	2:A:4002:LYS:HE3	1.72	0.70
2:A:4627:MET:HG3	2:A:4628:VAL:H	1.57	0.70
1:H:31:GLN:HA	1:H:98:ILE:CD1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2751:LEU:HG	2:B:2754:PHE:HB3	1.74	0.70
2:I:29:LEU:O	2:I:31:GLU:OE1	2.10	0.70
2:A:2906:VAL:HG23	2:A:2911:LEU:HD22	1.72	0.70
2:A:4791:TYR:OH	2:A:4818:MET:CE	2.38	0.70
1:F:31:GLN:HA	1:F:98:ILE:CD1	2.21	0.70
2:A:3627:GLN:NE2	2:A:3859:VAL:O	2.24	0.70
2:G:29:LEU:O	2:G:31:GLU:OE1	2.10	0.70
2:G:4157:ASP:OD1	2:G:4159:ARG:CG	2.37	0.70
2:B:707:VAL:HG23	2:B:782:SER:HB3	1.73	0.70
2:I:3836:MET:HE3	2:I:3885:PHE:CE1	2.26	0.70
2:B:2584:HIS:CD2	2:B:2625:ARG:HD2	2.26	0.70
2:B:4791:TYR:OH	2:B:4815:ASP:OD1	2.08	0.70
2:I:3843:ASP:OD1	2:I:3844:LEU:N	2.25	0.70
2:I:4979:THR:HG21	3:I:5301:ATP:H2'	1.73	0.70
2:A:2098:VAL:HG22	2:A:2101:MET:HE2	1.74	0.70
2:A:3205:PHE:CE2	2:A:3276:MET:HE3	2.26	0.70
2:A:4791:TYR:OH	2:A:4815:ASP:OD1	2.08	0.70
2:G:2584:HIS:CD2	2:G:2625:ARG:HD2	2.26	0.70
2:B:4979:THR:HG21	3:B:5301:ATP:H2'	1.73	0.70
2:I:2788:HIS:NE2	2:I:2790:MET:HG3	2.06	0.70
2:I:2906:VAL:HG23	2:I:2911:LEU:HD22	1.72	0.70
2:A:3843:ASP:OD1	2:A:3844:LEU:N	2.25	0.69
2:G:3843:ASP:OD1	2:G:3844:LEU:N	2.25	0.69
2:G:4627:MET:HG3	2:G:4628:VAL:H	1.57	0.69
2:I:3227:ARG:HA	2:I:3232:LEU:HD13	1.74	0.69
2:A:3227:ARG:HA	2:A:3232:LEU:HD13	1.74	0.69
1:H:58:GLY:HA2	1:H:61:GLU:OE2	1.92	0.69
2:G:1170:MET:CE	2:G:1176:GLU:OE2	2.41	0.69
2:G:2906:VAL:HG23	2:G:2911:LEU:HD22	1.72	0.69
2:B:4627:MET:HG3	2:B:4628:VAL:H	1.57	0.69
2:B:29:LEU:O	2:B:31:GLU:OE1	2.10	0.69
2:B:886:ARG:HE	2:B:904:HIS:HB2	1.56	0.69
2:G:924:MET:HA	2:G:924:MET:CE	2.23	0.69
2:B:1170:MET:CE	2:B:1176:GLU:OE2	2.41	0.69
2:I:317:ARG:NH1	2:I:321:GLU:O	2.26	0.69
2:I:886:ARG:HE	2:I:904:HIS:HB2	1.56	0.69
2:I:924:MET:HA	2:I:924:MET:CE	2.23	0.69
2:I:2024:PRO:HD2	2:I:2027:ILE:HD12	1.73	0.69
2:I:4638:TYR:HA	2:I:4641:PRO:HD2	1.73	0.69
1:F:58:GLY:HA2	1:F:61:GLU:OE2	1.92	0.69
2:A:886:ARG:HE	2:A:904:HIS:HB2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:924:MET:HA	2:A:924:MET:CE	2.23	0.69
2:G:317:ARG:NH1	2:G:321:GLU:O	2.26	0.69
2:G:1993:ARG:CB	2:G:1994:ARG:HH21	2.04	0.69
2:G:2788:HIS:NE2	2:G:2790:MET:SD	2.65	0.69
2:I:1170:MET:CE	2:I:1176:GLU:OE2	2.40	0.69
2:A:2788:HIS:NE2	2:A:2790:MET:SD	2.65	0.69
2:G:707:VAL:HG23	2:G:782:SER:HB3	1.73	0.69
2:B:2098:VAL:HA	2:B:2101:MET:CE	2.21	0.69
2:B:3843:ASP:OD1	2:B:3844:LEU:N	2.25	0.69
2:B:4074:SER:O	2:B:4078:GLN:NE2	2.26	0.69
2:A:2452:ARG:NH2	2:B:144:GLU:OE1	2.25	0.69
2:A:2751:LEU:HG	2:A:2754:PHE:HB3	1.74	0.69
2:G:2760:GLU:OE2	2:G:2802:LYS:NZ	2.26	0.69
2:G:4074:SER:O	2:G:4078:GLN:NE2	2.26	0.69
2:B:2760:GLU:OE2	2:B:2802:LYS:NZ	2.26	0.69
2:I:1993:ARG:CB	2:I:1994:ARG:HH21	2.04	0.69
2:A:1170:MET:CE	2:A:1176:GLU:OE2	2.40	0.69
2:A:2760:GLU:OE2	2:A:2802:LYS:NZ	2.26	0.69
2:G:4979:THR:HG21	3:G:5301:ATP:H2'	1.73	0.69
2:G:3813:GLN:O	2:G:3899:PHE:CZ	2.40	0.69
2:I:4074:SER:O	2:I:4078:GLN:NE2	2.26	0.69
2:G:886:ARG:HE	2:G:904:HIS:HB2	1.56	0.68
2:I:2302:LEU:HD23	2:I:2363:CYS:HB3	1.75	0.68
2:I:2788:HIS:NE2	2:I:2790:MET:SD	2.65	0.68
2:A:4979:THR:HG21	3:A:5301:ATP:H2'	1.73	0.68
2:G:276:TRP:O	2:G:328:LYS:NZ	2.20	0.68
2:G:2098:VAL:HA	2:G:2101:MET:CE	2.21	0.68
2:G:4036:VAL:HB	2:G:5035:GLN:HG3	1.74	0.68
2:B:317:ARG:NH1	2:B:321:GLU:O	2.26	0.68
2:A:2470:ILE:HG22	2:A:2525:GLY:HA3	1.76	0.68
2:G:3227:ARG:HA	2:G:3232:LEU:HD13	1.74	0.68
2:B:2499:LYS:NZ	2:B:2529:ASP:OD2	2.27	0.68
2:B:2645:THR:OG1	2:B:2702:CYS:SG	2.51	0.68
2:B:2788:HIS:NE2	2:B:2790:MET:SD	2.65	0.68
2:B:2470:ILE:HG22	2:B:2525:GLY:HA3	1.76	0.68
2:I:707:VAL:HG23	2:I:782:SER:HB3	1.73	0.68
2:A:317:ARG:NH1	2:A:321:GLU:O	2.26	0.68
2:G:2645:THR:OG1	2:G:2702:CYS:SG	2.51	0.68
2:G:2751:LEU:HG	2:G:2754:PHE:HB3	1.74	0.68
2:B:924:MET:HA	2:B:924:MET:CE	2.23	0.68
2:B:2754:PHE:HA	2:B:2758:PHE:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:796:ARG:O	2:I:1619:ARG:NH2	2.27	0.68
2:I:2527:LEU:HA	2:I:2530:MET:CE	2.24	0.68
2:G:882:TRP:O	2:G:886:ARG:NH2	2.27	0.68
2:B:3836:MET:HE3	2:B:3885:PHE:CE1	2.25	0.68
2:B:4823:LEU:CD1	2:I:4839:MET:HB3	2.23	0.68
2:I:2754:PHE:HA	2:I:2758:PHE:HB2	1.76	0.68
2:A:882:TRP:O	2:A:886:ARG:NH2	2.27	0.68
2:A:2348:GLU:N	2:A:2348:GLU:OE2	2.26	0.68
2:G:2615:ARG:CZ	2:G:2618:MET:HE1	2.01	0.68
2:B:2302:LEU:HD23	2:B:2363:CYS:HB3	1.75	0.68
2:I:4627:MET:HG3	2:I:4628:VAL:H	1.57	0.68
2:A:2754:PHE:HA	2:A:2758:PHE:HB2	1.76	0.68
2:G:2754:PHE:HA	2:G:2758:PHE:HB2	1.76	0.68
2:G:2788:HIS:NE2	2:G:2790:MET:HG3	2.06	0.68
2:I:2645:THR:OG1	2:I:2702:CYS:SG	2.51	0.68
2:G:2470:ILE:HG22	2:G:2525:GLY:HA3	1.76	0.68
2:G:4791:TYR:OH	2:G:4818:MET:CE	2.38	0.68
2:I:4036:VAL:HB	2:I:5035:GLN:HG3	1.74	0.68
2:I:4876:CYS:HA	2:I:4882:CYS:HB2	1.76	0.68
2:A:4036:VAL:HB	2:A:5035:GLN:HG3	1.74	0.67
2:B:3416:VAL:HG22	2:B:3517:MET:HE1	1.76	0.67
2:A:2098:VAL:HA	2:A:2101:MET:CE	2.21	0.67
2:A:2527:LEU:HA	2:A:2530:MET:CE	2.24	0.67
1:O:19:GLY:CA	1:O:49:ARG:HH21	2.07	0.67
2:A:2998:PHE:HA	2:A:3002:LEU:HD12	1.76	0.67
2:G:2302:LEU:HD23	2:G:2363:CYS:HB3	1.75	0.67
2:G:4839:MET:HB3	2:I:4823:LEU:CD1	2.23	0.67
2:I:2615:ARG:HG2	2:I:2664:PHE:CE2	2.29	0.67
2:A:4074:SER:O	2:A:4078:GLN:NE2	2.26	0.67
2:G:2348:GLU:OE2	2:G:2348:GLU:N	2.26	0.67
2:G:2527:LEU:HA	2:G:2530:MET:CE	2.24	0.67
2:B:2527:LEU:HA	2:B:2530:MET:CE	2.24	0.67
2:I:2760:GLU:OE2	2:I:2802:LYS:NZ	2.26	0.67
2:B:2452:ARG:NH2	2:I:144:GLU:OE1	2.28	0.67
2:B:2615:ARG:HG2	2:B:2664:PHE:CE2	2.30	0.67
2:B:2998:PHE:HA	2:B:3002:LEU:HD12	1.76	0.67
2:B:4036:VAL:HB	2:B:5035:GLN:HG3	1.75	0.67
2:I:4791:TYR:OH	2:I:4818:MET:CE	2.38	0.67
2:A:24:CYS:SG	2:A:200:TRP:CZ3	2.88	0.67
2:G:4876:CYS:HA	2:G:4882:CYS:HB2	1.76	0.67
2:I:2348:GLU:N	2:I:2348:GLU:OE2	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2470:ILE:HG22	2:I:2525:GLY:HA3	1.76	0.67
2:A:2302:LEU:HD23	2:A:2363:CYS:HB3	1.75	0.67
2:A:2499:LYS:NZ	2:A:2529:ASP:OD2	2.27	0.67
2:G:796:ARG:O	2:G:1619:ARG:NH2	2.27	0.67
2:I:2750:LYS:HD3	2:I:2823:ILE:HA	1.77	0.67
2:A:144:GLU:OE1	2:G:2452:ARG:NH2	2.28	0.67
2:I:4189:ARG:NH1	2:I:4189:ARG:HB2	2.10	0.67
2:A:796:ARG:O	2:A:1619:ARG:NH2	2.27	0.67
2:A:2788:HIS:NE2	2:A:2790:MET:HG3	2.06	0.67
2:G:24:CYS:SG	2:G:200:TRP:CZ3	2.88	0.67
2:G:2098:VAL:HG22	2:G:2101:MET:HE2	1.74	0.67
2:G:2615:ARG:HG2	2:G:2664:PHE:CE2	2.29	0.67
2:B:2499:LYS:O	2:B:2502:MET:HG2	1.95	0.67
2:B:2788:HIS:NE2	2:B:2790:MET:HG3	2.06	0.67
2:B:4791:TYR:OH	2:B:4818:MET:CE	2.38	0.67
2:A:2615:ARG:HG2	2:A:2664:PHE:CE2	2.30	0.67
2:G:2499:LYS:NZ	2:G:2529:ASP:OD2	2.27	0.67
2:I:868:GLU:HA	2:I:871:ARG:HB2	1.77	0.67
2:I:882:TRP:O	2:I:886:ARG:NH2	2.27	0.67
2:I:2499:LYS:O	2:I:2502:MET:HG2	1.95	0.67
2:A:2499:LYS:O	2:A:2502:MET:HG2	1.95	0.66
2:G:2778:GLY:HA3	2:G:2788:HIS:H	1.60	0.66
2:B:868:GLU:HA	2:B:871:ARG:HB2	1.77	0.66
2:B:882:TRP:O	2:B:886:ARG:NH2	2.27	0.66
2:B:2750:LYS:HD3	2:B:2823:ILE:HA	1.77	0.66
2:I:2499:LYS:NZ	2:I:2529:ASP:OD2	2.27	0.66
2:A:2713:ASP:OD1	2:A:3016:TYR:OH	2.12	0.66
2:G:2527:LEU:HA	2:G:2530:MET:HE3	1.77	0.66
2:B:24:CYS:SG	2:B:200:TRP:CZ3	2.88	0.66
2:I:69:LEU:HD21	2:I:202:MET:HE1	1.77	0.66
2:G:868:GLU:HA	2:G:871:ARG:HB2	1.77	0.66
2:G:939:VAL:HB	2:G:1051:TYR:HB3	1.78	0.66
2:B:4189:ARG:NH1	2:B:4189:ARG:HB2	2.10	0.66
2:I:939:VAL:HB	2:I:1051:TYR:HB3	1.78	0.66
2:I:3817:LEU:HB2	2:I:3899:PHE:CE1	2.31	0.66
2:G:144:GLU:OE1	2:I:2452:ARG:NH2	2.28	0.66
2:G:4189:ARG:HB2	2:G:4189:ARG:NH1	2.10	0.66
2:B:4876:CYS:HA	2:B:4882:CYS:HB2	1.76	0.66
2:I:2998:PHE:HA	2:I:3002:LEU:HD12	1.76	0.66
2:G:2499:LYS:O	2:G:2502:MET:HG2	1.95	0.66
2:I:276:TRP:O	2:I:328:LYS:NZ	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2778:GLY:HA3	2:I:2788:HIS:H	1.60	0.66
2:A:4189:ARG:NH1	2:A:4189:ARG:HB2	2.10	0.66
2:G:622:THR:HG23	2:G:626:LEU:HD12	1.78	0.66
2:B:3813:GLN:O	2:B:3899:PHE:CZ	2.40	0.66
2:I:622:THR:HG23	2:I:626:LEU:HD12	1.78	0.66
2:I:3230:LEU:HB2	2:I:3232:LEU:HD11	1.78	0.66
2:A:868:GLU:HA	2:A:871:ARG:HB2	1.77	0.66
1:F:19:GLY:CA	1:F:49:ARG:HH21	2.07	0.66
2:A:69:LEU:HD21	2:A:202:MET:HE1	1.77	0.66
2:A:177:GLU:O	2:G:2359:ARG:NH2	2.28	0.66
2:A:3230:LEU:HB2	2:A:3232:LEU:HD11	1.78	0.66
2:A:3813:GLN:O	2:A:3899:PHE:CZ	2.40	0.66
1:O:2:VAL:CG1	1:O:61:GLU:CG	2.74	0.66
2:G:3230:LEU:HB2	2:G:3232:LEU:HD11	1.78	0.66
2:B:69:LEU:HD21	2:B:202:MET:HE1	1.77	0.66
2:B:939:VAL:HB	2:B:1051:TYR:HB3	1.78	0.66
2:A:2750:LYS:HD3	2:A:2823:ILE:HA	1.77	0.66
2:G:2998:PHE:HA	2:G:3002:LEU:HD12	1.76	0.66
2:I:24:CYS:SG	2:I:200:TRP:CZ3	2.88	0.66
2:I:3813:GLN:O	2:I:3899:PHE:CZ	2.40	0.66
2:A:3312:LEU:HD12	2:A:3348:ARG:HG2	1.78	0.66
1:H:2:VAL:CG1	1:H:61:GLU:CG	2.74	0.66
2:G:2750:LYS:HD3	2:G:2823:ILE:HA	1.77	0.66
2:G:3817:LEU:HB2	2:G:3899:PHE:CE1	2.31	0.66
2:G:3847:PHE:O	2:G:3851:ASN:ND2	2.29	0.66
2:B:1948:ASP:OD2	2:B:2126:ARG:NH2	2.22	0.66
2:A:622:THR:HG23	2:A:626:LEU:HD12	1.78	0.65
2:A:3551:GLU:HA	2:A:3554:GLN:OE1	1.97	0.65
2:A:4876:CYS:HA	2:A:4882:CYS:HB2	1.76	0.65
2:G:2713:ASP:OD1	2:G:3016:TYR:OH	2.12	0.65
2:B:2348:GLU:N	2:B:2348:GLU:OE2	2.26	0.65
2:I:2098:VAL:CA	2:I:2101:MET:HE2	2.21	0.65
2:B:3817:LEU:HB2	2:B:3899:PHE:CE1	2.31	0.65
2:A:939:VAL:HB	2:A:1051:TYR:HB3	1.78	0.65
2:A:3817:LEU:HB2	2:A:3899:PHE:CE1	2.31	0.65
2:A:3847:PHE:O	2:A:3851:ASN:ND2	2.30	0.65
2:A:3989:VAL:CG2	2:A:4023:MET:HE1	2.17	0.65
2:B:2753:SER:O	2:B:2757:LYS:N	2.29	0.65
2:I:2470:ILE:CD1	2:I:2502:MET:HG3	2.27	0.65
2:I:3551:GLU:HA	2:I:3554:GLN:OE1	1.97	0.65
1:F:2:VAL:CG1	1:F:61:GLU:CG	2.74	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2778:GLY:HA3	2:A:2788:HIS:H	1.60	0.65
2:G:3312:LEU:HD12	2:G:3348:ARG:HG2	1.78	0.65
2:I:2469:ILE:CG2	2:I:2502:MET:HE1	2.17	0.65
2:G:1115:LEU:HD23	2:G:1123:VAL:HG11	1.79	0.65
2:G:2470:ILE:CD1	2:G:2502:MET:HG3	2.27	0.65
2:B:2778:GLY:HA3	2:B:2788:HIS:H	1.60	0.65
2:B:3551:GLU:HA	2:B:3554:GLN:OE1	1.97	0.65
2:B:3847:PHE:O	2:B:3851:ASN:ND2	2.30	0.65
2:A:663:TYR:OH	2:A:665:GLU:OE2	2.13	0.65
2:A:1115:LEU:HD23	2:A:1123:VAL:HG11	1.79	0.65
2:A:2470:ILE:CD1	2:A:2502:MET:HG3	2.27	0.65
2:A:3812:VAL:O	2:A:3816:MET:HG3	1.97	0.65
2:G:924:MET:HA	2:G:924:MET:HE1	1.79	0.65
2:G:2753:SER:O	2:G:2757:LYS:N	2.29	0.65
2:B:2470:ILE:CD1	2:B:2502:MET:HG3	2.27	0.65
2:G:1170:MET:HE3	2:G:1176:GLU:OE2	1.96	0.65
2:G:4677:LEU:HD12	2:G:4677:LEU:O	1.97	0.65
2:B:796:ARG:O	2:B:1619:ARG:NH2	2.27	0.65
2:I:317:ARG:NH2	2:I:349:GLN:OE1	2.29	0.65
2:I:981:GLN:HE21	2:I:1047:LEU:HD21	1.62	0.65
2:I:2627:VAL:HG12	2:I:2678:LEU:HD13	1.79	0.65
2:G:3812:VAL:O	2:G:3816:MET:HG3	1.97	0.65
2:I:4677:LEU:HD12	2:I:4677:LEU:O	1.97	0.65
2:B:1272:LEU:HD22	2:B:1289:LEU:HD11	1.79	0.65
2:B:3312:LEU:HD12	2:B:3348:ARG:HG2	1.78	0.65
2:B:3812:VAL:O	2:B:3816:MET:HG3	1.97	0.65
2:B:4878:ASP:OD1	2:B:4879:MET:N	2.30	0.65
2:I:1115:LEU:HD23	2:I:1123:VAL:HG11	1.79	0.65
2:I:1272:LEU:HD22	2:I:1289:LEU:HD11	1.79	0.65
2:I:3812:VAL:O	2:I:3816:MET:HG3	1.97	0.65
2:I:4878:ASP:OD1	2:I:4879:MET:N	2.30	0.65
1:J:2:VAL:CG1	1:J:61:GLU:CG	2.74	0.64
2:G:4045:VAL:HG11	2:G:4159:ARG:HE	1.61	0.64
2:B:622:THR:HG23	2:B:626:LEU:HD12	1.78	0.64
2:B:1115:LEU:HD23	2:B:1123:VAL:HG11	1.79	0.64
2:I:2595:LEU:CD2	2:I:2599:GLN:NE2	2.60	0.64
2:G:2627:VAL:HG12	2:G:2678:LEU:HD13	1.79	0.64
2:B:317:ARG:NH2	2:B:349:GLN:OE1	2.29	0.64
2:B:3230:LEU:HB2	2:B:3232:LEU:HD11	1.78	0.64
1:H:19:GLY:CA	1:H:49:ARG:HH21	2.07	0.64
2:B:3817:LEU:HB2	2:B:3899:PHE:CZ	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1420:ASN:OD1	2:I:1421:ARG:N	2.30	0.64
2:I:3312:LEU:HD12	2:I:3348:ARG:HG2	1.78	0.64
2:A:2595:LEU:CD2	2:A:2599:GLN:NE2	2.60	0.64
2:B:2962:GLN:O	2:B:2966:TRP:HE3	1.81	0.64
2:I:3817:LEU:HB2	2:I:3899:PHE:CZ	2.32	0.64
2:A:2098:VAL:CA	2:A:2101:MET:HE2	2.25	0.64
2:B:1420:ASN:OD1	2:B:1421:ARG:N	2.30	0.64
2:B:2595:LEU:CD2	2:B:2599:GLN:NE2	2.60	0.64
2:B:3173:TYR:HE1	2:B:3244:PRO:HD3	1.63	0.64
2:I:3847:PHE:O	2:I:3851:ASN:ND2	2.30	0.64
2:A:317:ARG:NH2	2:A:349:GLN:OE1	2.29	0.64
2:A:2962:GLN:O	2:A:2966:TRP:HE3	1.81	0.64
2:A:3817:LEU:HB2	2:A:3899:PHE:CZ	2.32	0.64
2:G:3551:GLU:HA	2:G:3554:GLN:OE1	1.97	0.64
2:B:2627:VAL:HG12	2:B:2678:LEU:HD13	1.79	0.64
2:I:2962:GLN:O	2:I:2966:TRP:HE3	1.81	0.64
2:I:3327:LEU:CD1	2:I:3368:ARG:HH21	2.04	0.64
2:I:4045:VAL:HG11	2:I:4159:ARG:HE	1.61	0.64
2:G:69:LEU:HD21	2:G:202:MET:HE1	1.77	0.64
2:G:1420:ASN:OD1	2:G:1421:ARG:N	2.30	0.64
2:G:3817:LEU:HB2	2:G:3899:PHE:CZ	2.32	0.64
2:G:4878:ASP:OD1	2:G:4879:MET:N	2.30	0.64
2:A:1948:ASP:OD2	2:A:2126:ARG:NH2	2.22	0.64
2:A:3270:ILE:HA	2:A:3274:LEU:CD1	2.28	0.64
2:G:2595:LEU:CD2	2:G:2599:GLN:NE2	2.60	0.64
2:B:4677:LEU:HD12	2:B:4677:LEU:O	1.97	0.64
2:B:4796:MET:HE3	2:B:4800:LEU:HG	1.80	0.64
2:I:4056:GLU:HG2	2:I:4166:LEU:HD22	1.80	0.64
2:A:2753:SER:O	2:A:2757:LYS:N	2.29	0.64
2:A:2754:PHE:CE1	2:A:2813:LEU:HB2	2.33	0.64
2:A:3205:PHE:CE2	2:A:3276:MET:HE2	2.24	0.64
2:G:2754:PHE:CE1	2:G:2813:LEU:HB2	2.33	0.64
2:B:4056:GLU:HG2	2:B:4166:LEU:HD22	1.80	0.64
2:I:3270:ILE:HA	2:I:3274:LEU:CD1	2.28	0.64
2:I:3416:VAL:HG22	2:I:3517:MET:HE1	1.80	0.64
2:A:883:ALA:HB1	2:A:905:PRO:HA	1.80	0.64
2:A:2627:VAL:HG12	2:A:2678:LEU:HD13	1.79	0.64
2:G:3836:MET:HE3	2:G:3885:PHE:CE1	2.32	0.64
2:A:981:GLN:HE21	2:A:1047:LEU:HD21	1.62	0.63
2:A:3173:TYR:HE1	2:A:3244:PRO:HD3	1.63	0.63
2:G:1948:ASP:OD2	2:G:2126:ARG:NH2	2.22	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2754:PHE:CE1	2:B:2813:LEU:HB2	2.33	0.63
2:B:4045:VAL:HG11	2:B:4159:ARG:HE	1.61	0.63
2:B:4563:ARG:NH2	2:B:4815:ASP:OD1	2.31	0.63
2:A:1272:LEU:HD22	2:A:1289:LEU:HD11	1.79	0.63
2:A:4563:ARG:NH2	2:A:4815:ASP:OD1	2.31	0.63
2:A:4878:ASP:OD1	2:A:4879:MET:N	2.30	0.63
2:G:981:GLN:HE21	2:G:1047:LEU:HD21	1.62	0.63
2:G:2962:GLN:O	2:G:2966:TRP:HE3	1.81	0.63
2:G:3204:ALA:HB1	2:G:3207:GLU:HB2	1.81	0.63
2:G:4563:ARG:NH2	2:G:4815:ASP:OD1	2.31	0.63
2:B:3270:ILE:HA	2:B:3274:LEU:CD1	2.28	0.63
2:I:663:TYR:OH	2:I:665:GLU:OE2	2.14	0.63
2:I:2754:PHE:CE1	2:I:2813:LEU:HB2	2.33	0.63
2:I:3204:ALA:HB1	2:I:3207:GLU:HB2	1.81	0.63
2:G:4092:ASP:CG	2:G:4095:LYS:HZ3	2.00	0.63
2:I:3173:TYR:HE1	2:I:3244:PRO:HD3	1.63	0.63
2:A:1420:ASN:OD1	2:A:1421:ARG:N	2.30	0.63
2:A:4677:LEU:HD12	2:A:4677:LEU:O	1.97	0.63
2:A:4791:TYR:HE1	2:A:4818:MET:HE3	1.50	0.63
2:G:2697:ARG:HA	2:G:2700:MET:HE2	1.80	0.63
2:B:2469:ILE:CB	2:B:2502:MET:SD	2.87	0.63
2:G:883:ALA:HB1	2:G:905:PRO:HA	1.80	0.63
2:I:4563:ARG:NH2	2:I:4815:ASP:OD1	2.31	0.63
2:G:317:ARG:NH2	2:G:349:GLN:OE1	2.29	0.63
2:G:1272:LEU:HD22	2:G:1289:LEU:HD11	1.79	0.63
2:G:2155:LEU:HD11	2:G:2198:MET:CE	2.28	0.63
2:G:3270:ILE:HA	2:G:3274:LEU:CD1	2.28	0.63
2:G:3416:VAL:HG22	2:G:3517:MET:HE1	1.79	0.63
2:B:981:GLN:HE21	2:B:1047:LEU:HD21	1.62	0.63
2:B:4092:ASP:CA	2:B:4095:LYS:HZ2	1.98	0.63
2:I:3111:ARG:NH1	2:I:3174:SER:O	2.32	0.63
2:A:1974:ARG:NH2	2:A:3642:TYR:HB2	2.14	0.63
2:G:248:GLU:HG2	2:G:252:VAL:HG11	1.81	0.63
2:B:883:ALA:HB1	2:B:905:PRO:HA	1.80	0.63
2:A:3944:GLU:OE1	2:A:3946:GLN:HG3	1.99	0.63
2:I:248:GLU:HG2	2:I:252:VAL:HG11	1.81	0.63
2:I:2500:ALA:HB2	2:I:2553:TYR:CD1	2.34	0.63
2:A:2500:ALA:HB2	2:A:2553:TYR:CD1	2.34	0.63
2:A:3416:VAL:HG22	2:A:3517:MET:HE1	1.79	0.63
2:G:2500:ALA:HB2	2:G:2553:TYR:CD1	2.34	0.63
2:G:3173:TYR:HE1	2:G:3244:PRO:HD3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4056:GLU:HG2	2:G:4166:LEU:HD22	1.80	0.63
2:G:4180:ARG:NH2	2:G:4981:GLU:OE1	2.32	0.63
2:I:2469:ILE:CB	2:I:2502:MET:SD	2.87	0.63
2:A:2515:GLN:HG2	2:A:2519:LEU:CD1	2.28	0.62
2:A:3842:LEU:HD21	2:A:3933:PHE:CD2	2.34	0.62
2:G:663:TYR:OH	2:G:665:GLU:OE2	2.13	0.62
2:B:3541:ALA:HA	2:B:3604:TYR:OH	1.99	0.62
2:I:2753:SER:O	2:I:2757:LYS:N	2.29	0.62
2:B:2515:GLN:HG2	2:B:2519:LEU:CD1	2.29	0.62
2:I:883:ALA:HB1	2:I:905:PRO:HA	1.80	0.62
2:I:2515:GLN:HG2	2:I:2519:LEU:CD1	2.28	0.62
2:I:3413:ILE:HD12	2:I:3469:PHE:O	1.99	0.62
2:A:2469:ILE:CB	2:A:2502:MET:SD	2.87	0.62
2:A:3541:ALA:HA	2:A:3604:TYR:CZ	2.35	0.62
2:A:4056:GLU:HG2	2:A:4166:LEU:HD22	1.80	0.62
2:G:1974:ARG:NH2	2:G:3642:TYR:HB2	2.14	0.62
2:G:2515:GLN:HG2	2:G:2519:LEU:CD1	2.28	0.62
2:G:3842:LEU:HD21	2:G:3933:PHE:CD2	2.34	0.62
2:B:3204:ALA:HB1	2:B:3207:GLU:HB2	1.80	0.62
2:B:5035:GLN:HG2	2:B:5036:LEU:N	2.15	0.62
2:I:2638:LYS:HE3	2:I:2698:MET:HG3	1.82	0.62
2:I:3541:ALA:HA	2:I:3604:TYR:CZ	2.34	0.62
2:I:3541:ALA:HA	2:I:3604:TYR:OH	1.99	0.62
2:A:3204:ALA:HB1	2:A:3207:GLU:HB2	1.81	0.62
2:G:3944:GLU:OE1	2:G:3946:GLN:HG3	1.99	0.62
2:G:4677:LEU:HA	2:G:4680:LYS:HE2	1.82	0.62
2:B:3413:ILE:HD12	2:B:3469:PHE:O	1.99	0.62
2:I:3187:ARG:HH12	2:I:3267:PRO:HB2	1.64	0.62
2:A:2155:LEU:HD11	2:A:2198:MET:CE	2.28	0.62
2:A:2440:MET:O	2:A:2444:GLN:NE2	2.33	0.62
2:A:4180:ARG:NH2	2:A:4981:GLU:OE1	2.32	0.62
2:A:4189:ARG:NH1	2:A:4189:ARG:CB	2.63	0.62
1:J:19:GLY:CA	1:J:49:ARG:HH21	2.07	0.62
2:G:2638:LYS:HE3	2:G:2698:MET:HG3	1.82	0.62
2:G:3541:ALA:HA	2:G:3604:TYR:OH	1.99	0.62
2:G:4796:MET:HE2	2:G:4800:LEU:HG	1.80	0.62
2:B:2531:ARG:NH2	2:B:2585:THR:OG1	2.33	0.62
2:I:2155:LEU:HD11	2:I:2198:MET:CE	2.29	0.62
2:B:1972:ASN:HD21	2:B:2023:LEU:HD23	1.65	0.62
2:B:3842:LEU:HD21	2:B:3933:PHE:CD2	2.34	0.62
2:I:1170:MET:HE3	2:I:1176:GLU:OE2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1974:ARG:NH2	2:I:3642:TYR:HB2	2.14	0.62
2:I:3996:PHE:O	2:I:4000:MET:HG3	2.00	0.62
2:I:5035:GLN:HG2	2:I:5036:LEU:N	2.14	0.62
2:A:248:GLU:HG2	2:A:252:VAL:HG11	1.81	0.62
2:A:3106:MET:O	2:A:3110:LEU:HG	2.00	0.62
2:G:2268:GLN:HG3	2:G:2269:GLY:H	1.64	0.62
2:G:3050:VAL:O	2:G:3050:VAL:HG12	2.00	0.62
2:G:5035:GLN:HG2	2:G:5036:LEU:N	2.15	0.62
2:B:1974:ARG:NH2	2:B:3642:TYR:HB2	2.14	0.62
2:B:2500:ALA:HB2	2:B:2553:TYR:CD1	2.34	0.62
2:I:158:SER:N	2:I:161:GLU:OE2	2.29	0.62
2:A:4677:LEU:HA	2:A:4680:LYS:HE2	1.82	0.62
2:G:2469:ILE:CB	2:G:2502:MET:SD	2.87	0.62
2:G:3106:MET:O	2:G:3110:LEU:HG	2.00	0.62
2:G:3541:ALA:HA	2:G:3604:TYR:CZ	2.34	0.62
2:G:4189:ARG:NH1	2:G:4189:ARG:CB	2.63	0.62
2:I:1972:ASN:HD21	2:I:2023:LEU:HD23	1.65	0.62
2:I:3944:GLU:OE1	2:I:3946:GLN:HG3	1.99	0.62
2:I:4189:ARG:NH1	2:I:4189:ARG:CB	2.63	0.62
2:A:2651:CYS:HA	2:A:2661:TRP:CZ2	2.35	0.62
2:G:3068:LEU:HG	2:G:3139:VAL:CG2	2.28	0.62
2:B:2440:MET:O	2:B:2444:GLN:NE2	2.33	0.62
2:B:3106:MET:O	2:B:3110:LEU:HG	2.00	0.62
2:I:3320:LEU:CD2	2:I:3357:HIS:HB3	2.21	0.62
2:A:2247:GLN:NE2	2:A:2279:SER:O	2.33	0.62
2:A:2531:ARG:NH2	2:A:2585:THR:OG1	2.33	0.62
2:A:2638:LYS:HE3	2:A:2698:MET:HG3	1.82	0.62
2:G:2651:CYS:HA	2:G:2661:TRP:CZ2	2.35	0.62
2:B:3541:ALA:HA	2:B:3604:TYR:CZ	2.35	0.62
2:B:3996:PHE:O	2:B:4000:MET:HG3	2.00	0.62
2:B:4650:HIS:CE1	2:B:4812:HIS:ND1	2.68	0.62
2:I:551:LEU:HB3	2:I:589:LEU:HD11	1.82	0.62
2:I:2268:GLN:HG3	2:I:2269:GLY:H	1.64	0.62
2:I:2713:ASP:OD1	2:I:3016:TYR:OH	2.12	0.62
2:A:2268:GLN:HG3	2:A:2269:GLY:H	1.64	0.61
2:B:3934:TYR:HA	2:B:3999:MET:HE1	1.80	0.61
2:B:4180:ARG:NH2	2:B:4981:GLU:OE1	2.32	0.61
2:A:2585:THR:O	2:A:2588:ARG:HG2	2.00	0.61
1:H:31:GLN:HE21	1:H:96:THR:HB	1.65	0.61
2:G:2440:MET:O	2:G:2444:GLN:NE2	2.33	0.61
2:G:4945:ASP:O	2:G:4949:GLN:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2268:GLN:HG3	2:B:2269:GLY:H	1.64	0.61
2:B:2563:THR:OG1	2:B:2606:CYS:SG	2.58	0.61
2:B:3944:GLU:OE1	2:B:3946:GLN:HG3	1.99	0.61
2:B:4189:ARG:NH1	2:B:4189:ARG:CB	2.63	0.61
2:I:4180:ARG:NH2	2:I:4981:GLU:OE1	2.32	0.61
2:I:4948:GLU:HA	2:I:4951:LYS:HD3	1.82	0.61
2:A:3521:GLY:O	2:A:3524:MET:HG2	2.01	0.61
2:G:2531:ARG:NH2	2:G:2585:THR:OG1	2.33	0.61
2:G:2585:THR:O	2:G:2588:ARG:HG2	2.00	0.61
2:B:3037:GLU:HG2	2:B:3085:PRO:HD2	1.82	0.61
2:B:4945:ASP:O	2:B:4949:GLN:HG2	2.00	0.61
2:I:3842:LEU:HD21	2:I:3933:PHE:CD2	2.34	0.61
2:A:3111:ARG:NH1	2:A:3174:SER:O	2.32	0.61
2:A:4161:ARG:HA	2:A:4164:LEU:HD12	1.82	0.61
2:G:265:LEU:HD22	2:G:279:PRO:HB2	1.82	0.61
2:G:3187:ARG:HH12	2:G:3267:PRO:HB2	1.64	0.61
2:I:13:PHE:HB2	2:I:15:ARG:HH12	1.65	0.61
2:I:2585:THR:O	2:I:2588:ARG:HG2	2.00	0.61
2:A:2470:ILE:HD11	2:A:2502:MET:HG3	1.83	0.61
2:G:3327:LEU:CD1	2:G:3368:ARG:HH21	2.03	0.61
2:G:4189:ARG:CB	2:G:4189:ARG:HH11	2.14	0.61
2:B:2638:LYS:HE3	2:B:2698:MET:HG3	1.82	0.61
2:B:4161:ARG:HA	2:B:4164:LEU:HD12	1.82	0.61
2:I:2651:CYS:HA	2:I:2661:TRP:CZ2	2.35	0.61
2:I:3037:GLU:HG2	2:I:3085:PRO:HD2	1.82	0.61
2:I:4677:LEU:HA	2:I:4680:LYS:HE2	1.82	0.61
2:A:2359:ARG:NH2	2:B:177:GLU:O	2.30	0.61
2:A:5035:GLN:HG2	2:A:5036:LEU:N	2.15	0.61
2:G:3111:ARG:NH1	2:G:3174:SER:O	2.32	0.61
2:A:3230:LEU:HB2	2:A:3232:LEU:CD1	2.31	0.61
2:A:3318:ASN:O	2:A:3322:ILE:HG12	2.00	0.61
2:A:4045:VAL:HG11	2:A:4159:ARG:HE	1.61	0.61
2:G:2563:THR:OG1	2:G:2606:CYS:SG	2.58	0.61
2:G:4650:HIS:CE1	2:G:4812:HIS:ND1	2.68	0.61
2:G:4948:GLU:HA	2:G:4951:LYS:HD3	1.82	0.61
2:B:248:GLU:HG2	2:B:252:VAL:HG11	1.81	0.61
2:B:2470:ILE:HD11	2:B:2502:MET:HG3	1.83	0.61
2:B:2585:THR:O	2:B:2588:ARG:HG2	2.00	0.61
2:B:3111:ARG:NH1	2:B:3174:SER:O	2.32	0.61
2:B:3532:LEU:HD22	2:B:3596:VAL:HG21	1.83	0.61
2:I:265:LEU:HD22	2:I:279:PRO:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2247:GLN:NE2	2:I:2279:SER:O	2.33	0.61
2:I:3532:LEU:HD22	2:I:3596:VAL:HG21	1.83	0.61
1:J:31:GLN:HE21	1:J:96:THR:HB	1.66	0.61
2:B:3187:ARG:HH12	2:B:3267:PRO:HB2	1.64	0.61
2:I:2440:MET:O	2:I:2444:GLN:NE2	2.33	0.61
2:I:3106:MET:O	2:I:3110:LEU:HG	2.00	0.61
2:I:4945:ASP:O	2:I:4949:GLN:HG2	2.00	0.61
1:F:16:PRO:HB3	1:F:106:LEU:HD21	1.83	0.61
2:A:3541:ALA:HA	2:A:3604:TYR:OH	1.99	0.61
2:A:4945:ASP:O	2:A:4949:GLN:HG2	2.00	0.61
2:G:2247:GLN:NE2	2:G:2279:SER:O	2.33	0.61
2:G:3521:GLY:O	2:G:3524:MET:HG2	2.01	0.61
2:B:551:LEU:HB3	2:B:589:LEU:HD11	1.82	0.61
2:B:2359:ARG:NH2	2:I:177:GLU:O	2.30	0.61
2:B:3205:PHE:CE2	2:B:3276:MET:HE2	2.27	0.61
2:B:4189:ARG:CB	2:B:4189:ARG:HH11	2.14	0.61
2:I:2470:ILE:HD11	2:I:2502:MET:HG3	1.83	0.61
2:I:2563:THR:OG1	2:I:2606:CYS:SG	2.58	0.61
2:A:1972:ASN:HD21	2:A:2023:LEU:HD23	1.65	0.61
2:A:3050:VAL:O	2:A:3050:VAL:HG12	2.00	0.61
2:A:3157:ILE:HA	2:A:3161:VAL:HG23	1.83	0.61
2:G:1972:ASN:HD21	2:G:2023:LEU:HD23	1.65	0.61
2:G:2624:ARG:HH21	2:G:2911:LEU:HA	1.65	0.61
2:B:2651:CYS:HA	2:B:2661:TRP:CZ2	2.35	0.61
2:B:3050:VAL:O	2:B:3050:VAL:HG12	2.00	0.61
2:A:1252:HIS:O	2:A:1275:ARG:NH1	2.34	0.60
2:G:2212:VAL:HG22	2:G:2256:TYR:CZ	2.36	0.60
2:G:2311:PRO:HA	2:G:2314:LEU:HD12	1.83	0.60
2:G:3413:ILE:HD12	2:G:3469:PHE:O	1.99	0.60
2:B:4948:GLU:HA	2:B:4951:LYS:HD3	1.82	0.60
2:I:2531:ARG:NH2	2:I:2585:THR:OG1	2.33	0.60
2:I:3050:VAL:HG22	2:I:3057:PHE:CE2	2.34	0.60
2:I:3080:VAL:HG12	2:I:3081:MET:HE2	1.83	0.60
2:A:2563:THR:OG1	2:A:2606:CYS:SG	2.58	0.60
2:G:2098:VAL:CA	2:G:2101:MET:HE2	2.25	0.60
2:G:2470:ILE:HD11	2:G:2502:MET:HG3	1.83	0.60
2:G:3996:PHE:O	2:G:4000:MET:HG3	2.00	0.60
2:B:4689:THR:HG22	2:B:4732:PHE:CZ	2.36	0.60
2:A:2311:PRO:HA	2:A:2314:LEU:HD12	1.83	0.60
2:A:2615:ARG:NH2	2:A:2618:MET:HE2	1.95	0.60
2:A:3037:GLU:HG2	2:A:3085:PRO:HD2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4092:ASP:CG	2:A:4095:LYS:HZ3	2.04	0.60
2:A:4650:HIS:CE1	2:A:4812:HIS:ND1	2.68	0.60
2:G:227:MET:CE	2:G:389:PHE:HD2	2.15	0.60
2:G:2472:LEU:HD23	2:G:2494:PHE:CD2	2.36	0.60
2:G:2615:ARG:NH2	2:G:2618:MET:HE2	1.88	0.60
2:B:13:PHE:HB2	2:B:15:ARG:HH12	1.65	0.60
2:B:2212:VAL:HG22	2:B:2256:TYR:CZ	2.37	0.60
2:B:2624:ARG:HH21	2:B:2911:LEU:HA	1.65	0.60
2:B:2697:ARG:HA	2:B:2700:MET:HE2	1.83	0.60
2:B:4677:LEU:HA	2:B:4680:LYS:HE2	1.82	0.60
2:B:4933:GLN:O	2:B:4937:ILE:HG12	2.01	0.60
2:I:1252:HIS:O	2:I:1275:ARG:NH1	2.34	0.60
2:I:3150:HIS:HB2	2:I:3152:PHE:CD1	2.35	0.60
2:A:2472:LEU:HD23	2:A:2494:PHE:CD2	2.36	0.60
2:A:3150:HIS:HB2	2:A:3152:PHE:CD1	2.35	0.60
2:A:4948:GLU:HA	2:A:4951:LYS:HD3	1.82	0.60
2:G:551:LEU:HB3	2:G:589:LEU:HD11	1.82	0.60
2:G:1252:HIS:O	2:G:1275:ARG:NH1	2.34	0.60
2:G:3230:LEU:HB2	2:G:3232:LEU:CD1	2.31	0.60
2:B:3230:LEU:HB2	2:B:3232:LEU:CD1	2.31	0.60
2:I:3318:ASN:O	2:I:3322:ILE:HG12	2.00	0.60
2:A:13:PHE:HB2	2:A:15:ARG:HH12	1.65	0.60
2:A:3996:PHE:O	2:A:4000:MET:HG3	2.00	0.60
2:G:13:PHE:HB2	2:G:15:ARG:HH12	1.65	0.60
2:G:3157:ILE:HA	2:G:3161:VAL:HG23	1.83	0.60
2:G:4161:ARG:HA	2:G:4164:LEU:HD12	1.82	0.60
2:B:1252:HIS:O	2:B:1275:ARG:NH1	2.34	0.60
2:I:869:ARG:CZ	2:I:870:ILE:HB	2.32	0.60
2:I:2212:VAL:HG22	2:I:2256:TYR:CZ	2.37	0.60
2:I:4650:HIS:CE1	2:I:4812:HIS:ND1	2.68	0.60
2:A:3327:LEU:CD1	2:A:3368:ARG:HH21	2.03	0.60
2:A:3464:ILE:O	2:A:3466:ASN:ND2	2.35	0.60
2:A:4576:ILE:HG21	2:A:4643:LEU:HB2	1.84	0.60
1:H:16:PRO:HB3	1:H:106:LEU:HD21	1.83	0.60
2:G:214:VAL:C	2:G:274:LEU:HD13	2.22	0.60
2:G:3037:GLU:HG2	2:G:3085:PRO:HD2	1.82	0.60
2:G:3318:ASN:O	2:G:3322:ILE:HG12	2.00	0.60
2:B:227:MET:CE	2:B:389:PHE:HD2	2.14	0.60
2:B:4576:ILE:HG21	2:B:4643:LEU:HB2	1.84	0.60
2:I:4161:ARG:HA	2:I:4164:LEU:HD12	1.82	0.60
2:I:4933:GLN:O	2:I:4937:ILE:HG12	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:31:GLN:HE21	1:F:96:THR:HB	1.65	0.60
2:A:227:MET:CE	2:A:389:PHE:HD2	2.14	0.60
2:A:265:LEU:HD22	2:A:279:PRO:HB2	1.82	0.60
2:A:3413:ILE:HD12	2:A:3469:PHE:O	1.99	0.60
2:A:4189:ARG:CB	2:A:4189:ARG:HH11	2.14	0.60
2:A:4933:GLN:O	2:A:4937:ILE:HG12	2.01	0.60
2:G:4576:ILE:HG21	2:G:4643:LEU:HB2	1.84	0.60
2:G:4948:GLU:O	2:G:4951:LYS:HG2	2.02	0.60
2:B:869:ARG:CZ	2:B:870:ILE:HB	2.32	0.60
2:B:3150:HIS:HB2	2:B:3152:PHE:CD1	2.36	0.60
2:B:3521:GLY:O	2:B:3524:MET:HG2	2.01	0.60
2:I:4627:MET:HG3	2:I:4628:VAL:N	2.17	0.60
2:I:4796:MET:HE3	2:I:4800:LEU:HG	1.83	0.60
2:G:3150:HIS:HB2	2:G:3152:PHE:CD1	2.36	0.60
2:G:3320:LEU:CD2	2:G:3357:HIS:HB3	2.21	0.60
2:B:2155:LEU:HD11	2:B:2198:MET:CE	2.28	0.60
2:B:3037:GLU:O	2:B:3040:THR:OG1	2.19	0.60
2:I:214:VAL:C	2:I:274:LEU:HD13	2.22	0.60
2:A:551:LEU:HB3	2:A:589:LEU:HD11	1.83	0.60
2:A:3187:ARG:HH12	2:A:3267:PRO:HB2	1.64	0.60
2:A:3414:ARG:O	2:A:3418:ASN:ND2	2.32	0.60
2:G:3532:LEU:HD22	2:G:3596:VAL:HG21	1.83	0.60
2:B:265:LEU:HD22	2:B:279:PRO:HB2	1.82	0.60
2:I:3464:ILE:O	2:I:3466:ASN:ND2	2.35	0.60
2:I:3521:GLY:O	2:I:3524:MET:HG2	2.01	0.60
2:I:4189:ARG:CB	2:I:4189:ARG:HH11	2.14	0.60
2:A:893:TYR:HB3	2:A:960:MET:HE1	1.84	0.60
2:A:2624:ARG:HH21	2:A:2911:LEU:HA	1.65	0.60
2:A:2645:THR:OG1	2:A:2702:CYS:SG	2.51	0.60
2:A:4689:THR:HG22	2:A:4732:PHE:CZ	2.36	0.60
2:G:990:GLU:HG3	2:G:1024:TYR:HB3	1.84	0.60
2:G:3050:VAL:HG22	2:G:3057:PHE:CE2	2.34	0.60
2:G:3464:ILE:O	2:G:3466:ASN:ND2	2.35	0.60
2:B:214:VAL:C	2:B:274:LEU:HD13	2.22	0.60
2:B:2311:PRO:HA	2:B:2314:LEU:HD12	1.83	0.60
2:B:3318:ASN:O	2:B:3322:ILE:HG12	2.00	0.60
2:I:2472:LEU:HD23	2:I:2494:PHE:CD2	2.36	0.60
2:I:3050:VAL:O	2:I:3050:VAL:HG12	2.00	0.60
2:I:3157:ILE:HA	2:I:3161:VAL:HG23	1.83	0.60
2:I:4576:ILE:HG21	2:I:4643:LEU:HB2	1.84	0.60
2:A:4948:GLU:O	2:A:4951:LYS:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4689:THR:HG22	2:G:4732:PHE:CZ	2.36	0.59
2:B:990:GLU:HG3	2:B:1024:TYR:HB3	1.84	0.59
2:B:2472:LEU:HD23	2:B:2494:PHE:CD2	2.36	0.59
2:I:3230:LEU:HB2	2:I:3232:LEU:CD1	2.31	0.59
2:A:2827:ARG:H	2:A:2934:GLY:HA3	1.67	0.59
2:A:3532:LEU:HD22	2:A:3596:VAL:HG21	1.83	0.59
1:O:16:PRO:HB3	1:O:106:LEU:HD21	1.83	0.59
2:G:3718:GLU:OE2	2:G:3723:MET:CE	2.50	0.59
2:B:2247:GLN:NE2	2:B:2279:SER:O	2.33	0.59
2:I:227:MET:CE	2:I:389:PHE:HD2	2.14	0.59
2:A:1819:VAL:O	2:A:1822:GLY:N	2.36	0.59
2:A:3718:GLU:OE2	2:A:3723:MET:CE	2.50	0.59
2:G:2827:ARG:H	2:G:2934:GLY:HA3	1.67	0.59
2:G:4049:VAL:CG2	2:G:4159:ARG:HD2	2.32	0.59
2:B:24:CYS:SG	2:B:200:TRP:CH2	2.96	0.59
2:B:1819:VAL:O	2:B:1822:GLY:N	2.36	0.59
2:B:3464:ILE:O	2:B:3466:ASN:ND2	2.35	0.59
2:B:4627:MET:HG3	2:B:4628:VAL:N	2.17	0.59
2:I:4658:ILE:CD1	2:I:4792:LEU:HB3	2.32	0.59
2:A:1170:MET:HE3	2:A:1176:GLU:OE2	2.02	0.59
2:A:2212:VAL:HG22	2:A:2256:TYR:CZ	2.37	0.59
2:A:4823:LEU:HD11	2:B:4839:MET:CB	2.29	0.59
2:G:4933:GLN:O	2:G:4937:ILE:HG12	2.01	0.59
2:B:3157:ILE:HA	2:B:3161:VAL:HG23	1.83	0.59
2:I:24:CYS:SG	2:I:200:TRP:CH2	2.96	0.59
2:I:2500:ALA:HB2	2:I:2553:TYR:CE1	2.38	0.59
2:I:3205:PHE:CE2	2:I:3276:MET:HE2	2.27	0.59
2:I:4689:THR:HG22	2:I:4732:PHE:CZ	2.36	0.59
2:A:3050:VAL:HG22	2:A:3057:PHE:CE2	2.34	0.59
2:A:3575:LEU:HD11	2:B:1208:VAL:HG11	1.83	0.59
1:O:31:GLN:HE21	1:O:96:THR:HB	1.66	0.59
1:O:85:THR:HG23	1:O:86:GLY:N	2.17	0.59
2:G:4551:PHE:CD1	2:G:4552:LEU:HD12	2.38	0.59
2:I:2302:LEU:HD11	2:I:2332:LEU:HD13	1.84	0.59
2:I:3068:LEU:HG	2:I:3139:VAL:CG2	2.28	0.59
2:A:1208:VAL:HG11	2:G:3575:LEU:HD11	1.84	0.59
2:A:2500:ALA:HB2	2:A:2553:TYR:CE1	2.38	0.59
2:A:2973:PHE:CD2	2:A:2995:ILE:HG22	2.38	0.59
1:J:16:PRO:HB3	1:J:106:LEU:HD21	1.83	0.59
2:I:1819:VAL:O	2:I:1822:GLY:N	2.36	0.59
2:I:2595:LEU:CD2	2:I:2599:GLN:CD	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2624:ARG:HH21	2:I:2911:LEU:HA	1.66	0.59
2:I:2973:PHE:CD2	2:I:2995:ILE:HG22	2.38	0.59
2:I:4948:GLU:O	2:I:4951:LYS:HG2	2.02	0.59
2:A:869:ARG:CZ	2:A:870:ILE:HB	2.32	0.59
2:A:3068:LEU:HG	2:A:3139:VAL:CG2	2.28	0.59
2:A:4796:MET:HE2	2:A:4800:LEU:HG	1.85	0.59
2:G:869:ARG:CZ	2:G:870:ILE:HB	2.32	0.59
2:G:2973:PHE:CD2	2:G:2995:ILE:HG22	2.38	0.59
2:G:4627:MET:HG3	2:G:4628:VAL:N	2.17	0.59
2:B:2827:ARG:H	2:B:2934:GLY:HA3	1.67	0.59
2:B:2997:PHE:HA	2:B:3001:ILE:HD13	1.85	0.59
2:I:2311:PRO:HA	2:I:2314:LEU:HD12	1.83	0.59
2:I:2638:LYS:NZ	2:I:2698:MET:HG3	2.18	0.59
1:F:85:THR:HG23	1:F:86:GLY:N	2.17	0.59
2:B:2500:ALA:HB2	2:B:2553:TYR:CE1	2.38	0.59
2:B:2638:LYS:NZ	2:B:2698:MET:HG3	2.18	0.59
2:B:3414:ARG:O	2:B:3418:ASN:ND2	2.32	0.59
2:I:2747:ILE:HD11	2:I:2751:LEU:HD23	1.85	0.59
2:I:2997:PHE:HA	2:I:3001:ILE:HD13	1.85	0.59
2:A:24:CYS:SG	2:A:200:TRP:CH2	2.96	0.59
2:A:4551:PHE:CD1	2:A:4552:LEU:HD12	2.38	0.59
1:H:85:THR:HG23	1:H:86:GLY:N	2.17	0.59
2:G:2302:LEU:HD11	2:G:2332:LEU:HD13	1.84	0.59
2:G:2638:LYS:NZ	2:G:2698:MET:HG3	2.18	0.59
2:G:2747:ILE:HD11	2:G:2751:LEU:HD23	1.85	0.59
2:B:3080:VAL:HG12	2:B:3081:MET:HE2	1.83	0.59
2:B:4658:ILE:CD1	2:B:4792:LEU:HB3	2.32	0.59
2:I:491:ILE:O	2:I:495:ASN:HB2	2.03	0.59
2:I:3081:MET:HE1	2:I:3089:LYS:HA	1.84	0.59
2:A:3705:PHE:HB2	2:A:3778:MET:SD	2.42	0.59
2:A:4627:MET:HG3	2:A:4628:VAL:N	2.17	0.59
2:G:2500:ALA:HB2	2:G:2553:TYR:CE1	2.38	0.59
2:G:4658:ILE:CD1	2:G:4792:LEU:HB3	2.32	0.59
2:B:491:ILE:O	2:B:495:ASN:HB2	2.03	0.59
2:B:3081:MET:HE1	2:B:3089:LYS:HA	1.84	0.59
2:B:4551:PHE:CD1	2:B:4552:LEU:HD12	2.38	0.59
2:I:128:THR:HG21	2:I:185:ALA:HB3	1.85	0.59
2:I:1520:VAL:HG12	2:I:1527:MET:HG2	1.85	0.59
2:I:2827:ARG:H	2:I:2934:GLY:HA3	1.67	0.59
2:A:214:VAL:C	2:A:274:LEU:HD13	2.22	0.58
2:A:3215:ALA:O	2:A:3221:THR:OG1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:24:CYS:SG	2:G:200:TRP:CH2	2.96	0.58
2:G:3705:PHE:HB2	2:G:3778:MET:SD	2.42	0.58
2:G:4127:GLU:O	2:G:4131:ARG:HG3	2.03	0.58
2:B:2595:LEU:CD2	2:B:2599:GLN:CD	2.71	0.58
2:I:3705:PHE:HB2	2:I:3778:MET:SD	2.42	0.58
2:A:2638:LYS:NZ	2:A:2698:MET:HG3	2.18	0.58
2:G:128:THR:HG21	2:G:185:ALA:HB3	1.85	0.58
2:G:3215:ALA:O	2:G:3221:THR:OG1	2.21	0.58
2:B:128:THR:HG21	2:B:185:ALA:HB3	1.85	0.58
2:A:2997:PHE:HA	2:A:3001:ILE:HD13	1.85	0.58
2:A:5009:TYR:CE2	2:A:5013:MET:HE2	2.39	0.58
1:J:85:THR:HG23	1:J:86:GLY:N	2.17	0.58
2:G:227:MET:HE1	2:G:389:PHE:HD2	1.68	0.58
2:B:296:ASP:OD1	2:B:297:GLN:N	2.36	0.58
2:B:1520:VAL:HG12	2:B:1527:MET:HG2	1.85	0.58
2:B:3718:GLU:OE2	2:B:3723:MET:CE	2.50	0.58
2:B:4678:ALA:HB1	2:B:4720:VAL:HG21	1.85	0.58
2:I:706:GLY:N	2:I:709:ASP:OD2	2.31	0.58
2:I:924:MET:HA	2:I:924:MET:HE1	1.84	0.58
2:I:990:GLU:HG3	2:I:1024:TYR:HB3	1.84	0.58
2:I:2686:LEU:HG	2:I:2696:TYR:CE2	2.39	0.58
2:I:3233:PRO:HD2	2:I:3239:MET:SD	2.43	0.58
2:A:296:ASP:OD1	2:A:297:GLN:N	2.36	0.58
2:A:977:LEU:HD11	2:A:1044:ARG:HG3	1.84	0.58
2:G:1229:ASN:HB3	2:G:1826:ALA:HB1	1.84	0.58
2:G:1520:VAL:HG12	2:G:1527:MET:HG2	1.85	0.58
2:B:4948:GLU:O	2:B:4951:LYS:HG2	2.02	0.58
2:I:2696:TYR:CD2	2:I:3001:ILE:HG12	2.38	0.58
2:I:2960:LEU:HD23	2:I:2963:LEU:HD12	1.86	0.58
2:I:4551:PHE:CD1	2:I:4552:LEU:HD12	2.38	0.58
2:I:5009:TYR:CE2	2:I:5013:MET:HE2	2.38	0.58
2:A:990:GLU:HG3	2:A:1024:TYR:HB3	1.84	0.58
2:A:2302:LEU:HD11	2:A:2332:LEU:HD13	1.84	0.58
2:G:977:LEU:HD11	2:G:1044:ARG:HG3	1.84	0.58
2:G:1208:VAL:HG11	2:I:3575:LEU:HD11	1.86	0.58
2:G:2595:LEU:CD2	2:G:2599:GLN:CD	2.71	0.58
2:G:2686:LEU:HG	2:G:2696:TYR:CE2	2.39	0.58
2:G:4189:ARG:HH11	2:G:4189:ARG:HB3	1.69	0.58
2:B:3705:PHE:HB2	2:B:3778:MET:SD	2.43	0.58
2:B:4658:ILE:HD13	2:B:4792:LEU:HB3	1.86	0.58
2:I:1229:ASN:HB3	2:I:1826:ALA:HB1	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4658:ILE:CD1	2:A:4792:LEU:HB3	2.32	0.58
2:G:3233:PRO:HD2	2:G:3239:MET:SD	2.43	0.58
2:G:5009:TYR:CE2	2:G:5013:MET:HE2	2.38	0.58
2:B:1229:ASN:HB3	2:B:1826:ALA:HB1	1.84	0.58
2:B:2747:ILE:HD11	2:B:2751:LEU:HD23	1.85	0.58
2:B:3050:VAL:HG22	2:B:3057:PHE:CE2	2.34	0.58
2:B:3233:PRO:HD2	2:B:3239:MET:SD	2.43	0.58
2:I:296:ASP:OD1	2:I:297:GLN:N	2.36	0.58
2:A:2644:LEU:HD12	2:A:2648:TYR:CE2	2.39	0.58
2:A:4127:GLU:O	2:A:4131:ARG:HG3	2.03	0.58
2:G:37:LEU:HD21	2:G:191:VAL:HG21	1.86	0.58
2:G:2997:PHE:HA	2:G:3001:ILE:HD13	1.85	0.58
2:B:37:LEU:HD21	2:B:191:VAL:HG21	1.86	0.58
2:B:924:MET:HA	2:B:924:MET:HE2	1.83	0.58
2:B:2302:LEU:HD11	2:B:2332:LEU:HD13	1.84	0.58
2:B:2973:PHE:CD2	2:B:2995:ILE:HG22	2.38	0.58
2:I:176:SER:HB2	2:I:178:ARG:HH21	1.69	0.58
2:A:37:LEU:HD21	2:A:191:VAL:HG21	1.86	0.58
2:A:924:MET:HA	2:A:924:MET:HE1	1.84	0.58
2:A:2696:TYR:CD2	2:A:3001:ILE:HG12	2.38	0.58
2:A:2697:ARG:HA	2:A:2700:MET:HE2	1.85	0.58
2:A:4796:MET:HE3	2:A:4800:LEU:HG	1.84	0.58
2:G:176:SER:HB2	2:G:178:ARG:HH21	1.69	0.58
2:G:177:GLU:O	2:I:2359:ARG:NH2	2.32	0.58
2:G:491:ILE:O	2:G:495:ASN:HB2	2.03	0.58
2:G:2696:TYR:CD2	2:G:3001:ILE:HG12	2.38	0.58
2:G:4658:ILE:HD13	2:G:4792:LEU:HB3	1.86	0.58
2:B:4049:VAL:CG2	2:B:4159:ARG:HD2	2.32	0.58
2:B:4127:GLU:O	2:B:4131:ARG:HG3	2.03	0.58
2:I:977:LEU:HD11	2:I:1044:ARG:HG3	1.84	0.58
2:I:2644:LEU:HD12	2:I:2648:TYR:CE2	2.39	0.58
2:A:128:THR:HG21	2:A:185:ALA:HB3	1.85	0.58
2:A:924:MET:HE1	2:A:927:GLU:HB2	1.86	0.58
2:A:2747:ILE:HD11	2:A:2751:LEU:HD23	1.85	0.58
2:A:4658:ILE:HD13	2:A:4792:LEU:HB3	1.86	0.58
1:J:31:GLN:HE21	1:J:96:THR:CG2	2.17	0.58
2:G:296:ASP:OD1	2:G:297:GLN:N	2.36	0.58
2:G:861:ILE:HG21	2:G:933:LEU:HD12	1.86	0.58
2:G:4056:GLU:HG2	2:G:4166:LEU:CD2	2.34	0.58
2:B:4056:GLU:HG2	2:B:4166:LEU:CD2	2.34	0.58
2:I:37:LEU:HD21	2:I:191:VAL:HG21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4127:GLU:O	2:I:4131:ARG:HG3	2.03	0.58
2:I:4658:ILE:HD13	2:I:4792:LEU:HB3	1.86	0.58
2:A:233:ILE:HD12	2:A:242:ARG:HB3	1.86	0.58
2:A:681:HIS:HE2	2:A:683:ARG:NE	2.02	0.58
2:A:2595:LEU:CD2	2:A:2599:GLN:CD	2.71	0.58
2:A:4049:VAL:CG2	2:A:4159:ARG:HD2	2.32	0.58
2:G:233:ILE:HD12	2:G:242:ARG:HB3	1.86	0.58
2:G:2715:VAL:HG11	2:G:2950:SER:HB2	1.86	0.58
2:G:2960:LEU:HD23	2:G:2963:LEU:HD12	1.86	0.58
2:B:176:SER:HB2	2:B:178:ARG:HH21	1.69	0.58
2:I:681:HIS:HE2	2:I:683:ARG:NE	2.02	0.58
2:I:4678:ALA:HB1	2:I:4720:VAL:HG21	1.85	0.58
2:A:3413:ILE:HG13	2:A:3414:ARG:N	2.19	0.57
2:A:3836:MET:HE3	2:A:3885:PHE:CE1	2.34	0.57
2:A:4678:ALA:HB1	2:A:4720:VAL:HG21	1.85	0.57
2:G:4678:ALA:HB1	2:G:4720:VAL:HG21	1.85	0.57
2:B:2644:LEU:HD12	2:B:2648:TYR:CE2	2.39	0.57
2:I:2500:ALA:CA	2:I:2553:TYR:CE1	2.87	0.57
2:I:3416:VAL:CG2	2:I:3517:MET:CE	2.83	0.57
1:F:31:GLN:HE21	1:F:96:THR:CG2	2.17	0.57
2:A:1229:ASN:HB3	2:A:1826:ALA:HB1	1.84	0.57
2:G:158:SER:N	2:G:161:GLU:OE2	2.29	0.57
2:G:1819:VAL:O	2:G:1822:GLY:N	2.36	0.57
2:G:3414:ARG:O	2:G:3418:ASN:ND2	2.32	0.57
2:B:977:LEU:HD11	2:B:1044:ARG:HG3	1.84	0.57
2:B:2686:LEU:HG	2:B:2696:TYR:CE2	2.39	0.57
2:B:2696:TYR:CD2	2:B:3001:ILE:HG12	2.38	0.57
2:B:2762:THR:O	2:B:2766:TRP:N	2.35	0.57
2:I:3413:ILE:HG13	2:I:3414:ARG:N	2.19	0.57
2:A:158:SER:N	2:A:161:GLU:OE2	2.29	0.57
2:A:491:ILE:O	2:A:495:ASN:HB2	2.03	0.57
2:A:1781:CYS:SG	2:A:1783:VAL:HG22	2.45	0.57
2:A:2500:ALA:CA	2:A:2553:TYR:CE1	2.86	0.57
2:A:2762:THR:O	2:A:2766:TRP:N	2.35	0.57
2:A:3173:TYR:CE1	2:A:3244:PRO:HD3	2.39	0.57
2:A:3233:PRO:HD2	2:A:3239:MET:SD	2.43	0.57
2:G:1781:CYS:SG	2:G:1783:VAL:HG22	2.45	0.57
2:G:3413:ILE:HG13	2:G:3414:ARG:N	2.19	0.57
2:B:4189:ARG:HH11	2:B:4189:ARG:HB3	1.69	0.57
2:I:861:ILE:HG21	2:I:933:LEU:HD12	1.86	0.57
2:I:3215:ALA:O	2:I:3221:THR:OG1	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4056:GLU:HG2	2:A:4166:LEU:CD2	2.34	0.57
2:G:2644:LEU:HD12	2:G:2648:TYR:CE2	2.39	0.57
2:G:2972:GLU:OE2	2:G:2976:HIS:NE2	2.38	0.57
2:B:1170:MET:HE3	2:B:1176:GLU:OE2	2.03	0.57
2:B:2615:ARG:CZ	2:B:2618:MET:HE1	2.05	0.57
2:B:3173:TYR:CE1	2:B:3244:PRO:HD3	2.39	0.57
2:B:3416:VAL:CG2	2:B:3517:MET:CE	2.83	0.57
2:I:2972:GLU:OE2	2:I:2976:HIS:NE2	2.38	0.57
2:I:3173:TYR:CE1	2:I:3244:PRO:HD3	2.39	0.57
2:I:4049:VAL:CG2	2:I:4159:ARG:HD2	2.32	0.57
2:A:2970:SER:HA	2:A:2973:PHE:CE1	2.39	0.57
1:H:31:GLN:HE21	1:H:96:THR:CG2	2.17	0.57
1:O:31:GLN:HE21	1:O:96:THR:CG2	2.17	0.57
2:G:3147:ILE:HG13	2:G:3152:PHE:HB2	1.87	0.57
2:G:3205:PHE:CE2	2:G:3276:MET:HE2	2.30	0.57
2:B:2098:VAL:HA	2:B:2101:MET:HG2	1.87	0.57
2:B:2960:LEU:HD23	2:B:2963:LEU:HD12	1.86	0.57
2:I:1948:ASP:OD2	2:I:2126:ARG:NH2	2.22	0.57
2:I:3038:MET:O	2:I:3042:LEU:HD13	2.04	0.57
2:G:3927:GLN:HB3	2:G:3992:PHE:CE1	2.40	0.57
2:B:1781:CYS:SG	2:B:1783:VAL:HG22	2.45	0.57
2:B:2970:SER:HA	2:B:2973:PHE:CE1	2.39	0.57
2:B:3215:ALA:O	2:B:3221:THR:OG1	2.21	0.57
2:I:2715:VAL:HG11	2:I:2950:SER:HB2	1.86	0.57
2:A:3147:ILE:HG13	2:A:3152:PHE:HB2	1.86	0.57
2:A:3416:VAL:CG2	2:A:3517:MET:CE	2.83	0.57
2:B:233:ILE:HD12	2:B:242:ARG:HB3	1.86	0.57
2:B:2972:GLU:OE2	2:B:2976:HIS:NE2	2.38	0.57
2:B:3038:MET:O	2:B:3042:LEU:HD13	2.05	0.57
2:B:3201:MET:HE3	2:B:3205:PHE:CD1	2.34	0.57
2:A:357:LEU:HD11	2:A:376:ALA:HB1	1.87	0.57
2:A:1520:VAL:HG12	2:A:1527:MET:HG2	1.85	0.57
2:A:2686:LEU:HG	2:A:2696:TYR:CE2	2.39	0.57
2:A:2972:GLU:OE2	2:A:2976:HIS:NE2	2.38	0.57
2:A:3320:LEU:CD2	2:A:3357:HIS:HB3	2.21	0.57
2:A:3927:GLN:HB3	2:A:3992:PHE:CE1	2.40	0.57
2:G:215:THR:HA	2:G:274:LEU:HD12	1.87	0.57
2:G:357:LEU:HD11	2:G:376:ALA:HB1	1.87	0.57
2:G:3416:VAL:CG2	2:G:3517:MET:CE	2.83	0.57
2:B:363:ASP:HA	2:B:367:LEU:HD12	1.87	0.57
2:A:2540:THR:HG1	2:A:2541:PHE:HD2	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2644:LEU:HD12	2:A:2648:TYR:HE2	1.70	0.57
2:A:2960:LEU:HD23	2:A:2963:LEU:HD12	1.86	0.57
2:A:3037:GLU:O	2:A:3040:THR:OG1	2.19	0.57
2:G:3140:LEU:HG	2:G:3144:PHE:CZ	2.40	0.57
2:G:3725:TYR:O	2:G:3729:MET:HG3	2.05	0.57
2:B:3413:ILE:HG13	2:B:3414:ARG:N	2.19	0.57
2:I:897:ARG:HH11	2:I:901:LYS:HD2	1.70	0.57
2:I:215:THR:HA	2:I:274:LEU:HD12	1.87	0.57
2:I:2762:THR:O	2:I:2766:TRP:N	2.35	0.57
2:I:4735:GLU:OE1	2:I:4735:GLU:N	2.34	0.57
2:A:215:THR:CA	2:A:274:LEU:CD1	2.83	0.56
2:A:363:ASP:HA	2:A:367:LEU:HD12	1.87	0.56
2:G:2362:GLU:HA	2:G:2369:ARG:NH1	2.20	0.56
2:G:2621:HIS:O	2:G:2624:ARG:HB3	2.05	0.56
2:G:2964:LEU:CD2	2:G:3042:LEU:HD12	2.32	0.56
2:G:3173:TYR:CE1	2:G:3244:PRO:HD3	2.39	0.56
2:B:158:SER:N	2:B:161:GLU:OE2	2.29	0.56
2:B:681:HIS:HE2	2:B:683:ARG:NE	2.02	0.56
2:B:897:ARG:HH11	2:B:901:LYS:HD2	1.70	0.56
2:B:3327:LEU:CD1	2:B:3368:ARG:HH21	2.03	0.56
2:B:3416:VAL:HG21	2:B:3517:MET:CE	2.35	0.56
2:I:233:ILE:HD12	2:I:242:ARG:HB3	1.86	0.56
2:I:1781:CYS:SG	2:I:1783:VAL:HG22	2.45	0.56
2:I:3927:GLN:HB3	2:I:3992:PHE:CE1	2.40	0.56
2:A:2621:HIS:O	2:A:2624:ARG:HB3	2.05	0.56
2:A:3038:MET:O	2:A:3042:LEU:HD13	2.04	0.56
2:A:3725:TYR:O	2:A:3729:MET:HG3	2.05	0.56
2:A:4189:ARG:HH11	2:A:4189:ARG:HB3	1.69	0.56
2:G:363:ASP:HA	2:G:367:LEU:HD12	1.87	0.56
2:G:2644:LEU:HD12	2:G:2648:TYR:HE2	1.70	0.56
2:I:363:ASP:HA	2:I:367:LEU:HD12	1.87	0.56
2:I:2964:LEU:CD2	2:I:3042:LEU:HD12	2.32	0.56
2:I:3533:ILE:HG22	2:I:3537:LYS:HE2	1.86	0.56
2:I:3725:TYR:O	2:I:3729:MET:HG3	2.05	0.56
2:A:176:SER:HB2	2:A:178:ARG:HH21	1.69	0.56
2:A:2098:VAL:HA	2:A:2101:MET:HG2	1.87	0.56
2:A:2736:ASP:OD1	2:A:2891:LYS:NZ	2.39	0.56
2:A:3533:ILE:HG22	2:A:3537:LYS:HE2	1.86	0.56
2:G:897:ARG:HH11	2:G:901:LYS:HD2	1.70	0.56
2:G:1116:GLY:HA3	2:G:1132:TRP:HB3	1.88	0.56
2:G:2332:LEU:HD23	2:G:2429:LEU:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2992:GLU:O	2:G:2995:ILE:HG12	2.06	0.56
2:G:3038:MET:O	2:G:3042:LEU:HD13	2.04	0.56
2:B:357:LEU:HD11	2:B:376:ALA:HB1	1.87	0.56
2:B:861:ILE:HG21	2:B:933:LEU:HD12	1.86	0.56
2:B:2621:HIS:O	2:B:2624:ARG:HB3	2.05	0.56
2:B:3147:ILE:HG13	2:B:3152:PHE:HB2	1.86	0.56
2:B:3533:ILE:HG22	2:B:3537:LYS:HE2	1.86	0.56
2:B:3927:GLN:HB3	2:B:3992:PHE:CE1	2.40	0.56
2:I:924:MET:HE1	2:I:927:GLU:HB2	1.86	0.56
2:I:1748:PHE:HE1	2:I:1760:HIS:HD2	1.53	0.56
2:I:2644:LEU:HD12	2:I:2648:TYR:HE2	1.70	0.56
2:I:3140:LEU:HG	2:I:3144:PHE:CZ	2.40	0.56
2:I:4056:GLU:HG2	2:I:4166:LEU:CD2	2.34	0.56
2:A:2472:LEU:HD23	2:A:2494:PHE:CZ	2.41	0.56
2:A:3240:CYS:HB3	2:A:3243:ILE:HD12	1.88	0.56
2:G:681:HIS:HE2	2:G:683:ARG:NE	2.02	0.56
2:G:2500:ALA:CA	2:G:2553:TYR:CE1	2.86	0.56
2:B:2332:LEU:HD23	2:B:2429:LEU:N	2.21	0.56
2:B:3240:CYS:HB3	2:B:3243:ILE:HD12	1.88	0.56
2:I:357:LEU:HD11	2:I:376:ALA:HB1	1.87	0.56
2:I:1116:GLY:HA3	2:I:1132:TRP:HB3	1.88	0.56
2:I:2098:VAL:HA	2:I:2101:MET:HG2	1.87	0.56
2:I:2621:HIS:O	2:I:2624:ARG:HB3	2.05	0.56
2:I:4796:MET:HE2	2:I:4800:LEU:HG	1.86	0.56
2:A:861:ILE:HG21	2:A:933:LEU:HD12	1.86	0.56
2:A:2332:LEU:HD23	2:A:2429:LEU:N	2.21	0.56
2:G:3533:ILE:HG22	2:G:3537:LYS:HE2	1.86	0.56
2:I:215:THR:CA	2:I:274:LEU:CD1	2.83	0.56
2:I:2970:SER:HA	2:I:2973:PHE:CE1	2.40	0.56
2:I:4189:ARG:HH11	2:I:4189:ARG:HB3	1.69	0.56
2:B:2362:GLU:HA	2:B:2369:ARG:NH1	2.20	0.56
2:B:3068:LEU:HG	2:B:3139:VAL:CG2	2.28	0.56
2:G:2970:SER:HA	2:G:2973:PHE:CE1	2.39	0.56
2:G:3844:LEU:O	2:G:3848:GLU:HG2	2.06	0.56
2:B:215:THR:HA	2:B:274:LEU:HD12	1.87	0.56
2:B:215:THR:CA	2:B:274:LEU:CD1	2.83	0.56
2:B:924:MET:HE2	2:B:927:GLU:HB2	1.87	0.56
2:I:2332:LEU:HD23	2:I:2429:LEU:N	2.21	0.56
2:I:3240:CYS:HB3	2:I:3243:ILE:HD12	1.88	0.56
2:I:3844:LEU:O	2:I:3848:GLU:HG2	2.06	0.56
2:A:2715:VAL:HG11	2:A:2950:SER:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:215:THR:CA	2:G:274:LEU:CD1	2.83	0.56
2:B:1748:PHE:HE1	2:B:1760:HIS:HD2	1.53	0.56
2:B:3235:SER:O	2:B:3238:GLU:HG2	2.06	0.56
2:B:3324:VAL:O	2:B:3327:LEU:HD22	2.06	0.56
2:A:3522:LEU:HD21	2:A:3603:LEU:HD21	1.88	0.56
2:G:924:MET:HE1	2:G:927:GLU:HB2	1.88	0.56
2:G:3037:GLU:O	2:G:3040:THR:OG1	2.19	0.56
2:G:3240:CYS:HB3	2:G:3243:ILE:HD12	1.88	0.56
2:B:2638:LYS:CE	2:B:2698:MET:HG3	2.36	0.56
2:B:2715:VAL:HG11	2:B:2950:SER:HB2	1.86	0.56
2:B:3522:LEU:HD21	2:B:3603:LEU:HD21	1.88	0.56
2:B:3725:TYR:O	2:B:3729:MET:HG3	2.05	0.56
2:I:2496:PRO:HD3	2:I:2546:MET:CE	2.36	0.56
2:A:128:THR:OG1	2:A:186:SER:OG	2.24	0.56
2:A:1748:PHE:HE1	2:A:1760:HIS:HD2	1.53	0.56
2:A:2496:PRO:HD3	2:A:2546:MET:CE	2.36	0.56
2:A:3000:LYS:HB2	2:A:3001:ILE:HD12	1.88	0.56
2:G:1748:PHE:HE1	2:G:1760:HIS:HD2	1.53	0.56
2:B:128:THR:OG1	2:B:186:SER:OG	2.24	0.56
2:B:495:ASN:HD22	2:B:550:LYS:HE3	1.71	0.56
2:B:3140:LEU:HG	2:B:3144:PHE:CZ	2.40	0.56
2:I:1827:ARG:O	2:I:1829:PRO:HD3	2.06	0.56
2:I:2029:GLN:NE2	2:I:2033:ASP:OD1	2.39	0.56
2:I:3416:VAL:HG21	2:I:3517:MET:CE	2.35	0.56
2:A:2992:GLU:O	2:A:2995:ILE:HG12	2.06	0.55
2:B:2472:LEU:HD23	2:B:2494:PHE:CZ	2.41	0.55
2:B:3000:LYS:HB2	2:B:3001:ILE:HD12	1.88	0.55
2:I:695:TYR:HD2	2:I:1240:LYS:HE3	1.71	0.55
2:I:2992:GLU:O	2:I:2995:ILE:HG12	2.06	0.55
2:A:215:THR:HA	2:A:274:LEU:HD12	1.87	0.55
2:A:897:ARG:HH11	2:A:901:LYS:HD2	1.70	0.55
2:A:3844:LEU:O	2:A:3848:GLU:HG2	2.06	0.55
2:B:379:HIS:CD2	2:B:380:GLN:H	2.24	0.55
2:B:3281:LEU:CB	2:B:3312:LEU:HD21	2.37	0.55
2:I:379:HIS:CD2	2:I:380:GLN:H	2.24	0.55
2:I:3235:SER:O	2:I:3238:GLU:HG2	2.06	0.55
2:I:4104:THR:HG22	2:I:4107:GLU:HG2	1.88	0.55
2:A:2638:LYS:CE	2:A:2698:MET:HG3	2.36	0.55
2:G:20:VAL:HG21	2:G:202:MET:CE	2.37	0.55
2:G:2305:CYS:SG	2:G:2328:GLY:N	2.80	0.55
2:G:2472:LEU:HD23	2:G:2494:PHE:CZ	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2700:MET:HB2	2:G:2701:PRO:HD3	1.89	0.55
2:G:2967:MET:HE1	2:G:3045:LYS:CB	2.11	0.55
2:G:3235:SER:O	2:G:3238:GLU:HG2	2.06	0.55
2:B:1116:GLY:HA3	2:B:1132:TRP:HB3	1.88	0.55
2:B:2644:LEU:HD12	2:B:2648:TYR:HE2	1.70	0.55
2:I:2362:GLU:HA	2:I:2369:ARG:NH1	2.20	0.55
2:I:2736:ASP:OD1	2:I:2891:LYS:NZ	2.39	0.55
2:I:3000:LYS:HB2	2:I:3001:ILE:HD12	1.88	0.55
2:A:800:PHE:O	2:A:802:PHE:N	2.40	0.55
2:A:1827:ARG:O	2:A:1829:PRO:HD3	2.06	0.55
2:A:2305:CYS:SG	2:A:2328:GLY:N	2.80	0.55
2:G:706:GLY:N	2:G:709:ASP:OD2	2.31	0.55
2:G:800:PHE:O	2:G:802:PHE:N	2.40	0.55
2:G:870:ILE:HG13	2:G:874:LEU:HD23	1.89	0.55
2:G:886:ARG:NE	2:G:904:HIS:HB2	2.22	0.55
2:B:215:THR:C	2:B:274:LEU:CD1	2.75	0.55
2:B:1827:ARG:O	2:B:1829:PRO:HD3	2.06	0.55
2:B:2283:ASN:HB2	2:B:2286:LEU:HB2	1.88	0.55
2:B:2634:ASN:HD21	2:B:2636:PHE:HB2	1.72	0.55
2:B:3269:VAL:O	2:B:3274:LEU:HG	2.07	0.55
2:B:4104:THR:HG22	2:B:4107:GLU:HG2	1.88	0.55
2:B:4963:ILE:HB	2:B:4968:PHE:HE2	1.71	0.55
2:I:2283:ASN:HB2	2:I:2286:LEU:HB2	1.88	0.55
2:I:2638:LYS:CE	2:I:2698:MET:HG3	2.36	0.55
2:I:3269:VAL:O	2:I:3274:LEU:HG	2.07	0.55
2:A:2700:MET:HB2	2:A:2701:PRO:HD3	1.89	0.55
2:A:3529:ASP:OD2	2:A:3595:ARG:NH2	2.30	0.55
2:A:4655:PHE:CE2	2:A:4659:ILE:HD11	2.42	0.55
2:A:4963:ILE:HB	2:A:4968:PHE:HE2	1.71	0.55
2:G:379:HIS:CD2	2:G:380:GLN:H	2.24	0.55
2:G:1638:ALA:HB1	2:G:1647:CYS:SG	2.47	0.55
2:G:1827:ARG:O	2:G:1829:PRO:HD3	2.06	0.55
2:B:663:TYR:OH	2:B:665:GLU:OE2	2.13	0.55
2:B:800:PHE:O	2:B:802:PHE:N	2.40	0.55
2:B:1490:SER:OG	2:B:1491:ASN:N	2.40	0.55
2:B:3575:LEU:HD11	2:I:1208:VAL:HG11	1.88	0.55
2:B:3844:LEU:O	2:B:3848:GLU:HG2	2.06	0.55
2:B:5009:TYR:CE2	2:B:5013:MET:HE2	2.42	0.55
2:I:20:VAL:HG21	2:I:202:MET:CE	2.37	0.55
2:I:3147:ILE:HG13	2:I:3152:PHE:HB2	1.87	0.55
2:I:3281:LEU:CB	2:I:3312:LEU:HD21	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:379:HIS:CD2	2:A:380:GLN:H	2.24	0.55
2:A:1116:GLY:HA3	2:A:1132:TRP:HB3	1.88	0.55
2:A:2575:ARG:HH12	2:A:2578:MET:CE	1.79	0.55
2:A:3140:LEU:HG	2:A:3144:PHE:CZ	2.40	0.55
2:A:3235:SER:O	2:A:3238:GLU:HG2	2.06	0.55
2:G:2496:PRO:HD3	2:G:2546:MET:CE	2.36	0.55
2:G:2634:ASN:HD21	2:G:2636:PHE:HB2	1.72	0.55
2:G:2736:ASP:OD1	2:G:2891:LYS:NZ	2.39	0.55
2:G:3000:LYS:HB2	2:G:3001:ILE:HD12	1.88	0.55
2:G:4963:ILE:HB	2:G:4968:PHE:HE2	1.71	0.55
2:B:870:ILE:HG13	2:B:874:LEU:HD23	1.89	0.55
2:B:2992:GLU:O	2:B:2995:ILE:HG12	2.06	0.55
2:B:3554:GLN:NE2	2:B:3593:VAL:HG11	2.22	0.55
2:B:4976:GLU:O	2:B:4980:LEU:HD23	2.07	0.55
2:I:2634:ASN:HD21	2:I:2636:PHE:HB2	1.72	0.55
2:I:3414:ARG:O	2:I:3418:ASN:ND2	2.32	0.55
2:I:3718:GLU:OE2	2:I:3723:MET:CE	2.50	0.55
2:I:4092:ASP:CA	2:I:4095:LYS:HZ2	2.02	0.55
2:I:4655:PHE:CE2	2:I:4659:ILE:HD11	2.42	0.55
2:A:2029:GLN:NE2	2:A:2033:ASP:OD1	2.39	0.55
2:A:2031:LEU:HD11	2:A:3657:TYR:CE1	2.42	0.55
2:A:3324:VAL:O	2:A:3327:LEU:HD22	2.06	0.55
2:A:3554:GLN:NE2	2:A:3593:VAL:HG11	2.22	0.55
2:A:3768:SER:HA	2:A:3771:HIS:CE1	2.41	0.55
2:A:4128:PHE:HD1	2:A:4131:ARG:HH21	1.55	0.55
2:G:495:ASN:HD22	2:G:550:LYS:HE3	1.71	0.55
2:G:664:PHE:HB3	2:G:811:CYS:SG	2.47	0.55
2:G:2098:VAL:HA	2:G:2101:MET:HG2	1.87	0.55
2:G:2638:LYS:CE	2:G:2698:MET:HG3	2.36	0.55
2:B:664:PHE:HB3	2:B:811:CYS:SG	2.46	0.55
2:B:2700:MET:HB2	2:B:2701:PRO:HD3	1.89	0.55
2:B:3320:LEU:CD2	2:B:3357:HIS:HB3	2.21	0.55
2:I:4103:PHE:HB3	2:I:4107:GLU:HG3	1.88	0.55
2:I:4976:GLU:O	2:I:4980:LEU:HD23	2.07	0.55
1:F:31:GLN:HG3	1:F:98:ILE:HD11	1.89	0.55
2:G:3324:VAL:O	2:G:3327:LEU:HD22	2.06	0.55
2:B:2029:GLN:NE2	2:B:2033:ASP:OD1	2.39	0.55
2:B:2496:PRO:HD3	2:B:2546:MET:CE	2.36	0.55
2:B:2653:LYS:HG3	2:B:2661:TRP:CD1	2.42	0.55
2:I:1638:ALA:HB1	2:I:1647:CYS:SG	2.47	0.55
2:I:2635:GLU:HA	2:I:2635:GLU:OE2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2700:MET:HB2	2:I:2701:PRO:HD3	1.89	0.55
2:A:695:TYR:HD2	2:A:1240:LYS:HE3	1.71	0.55
2:A:3206:LEU:HD21	2:A:3276:MET:CE	2.37	0.55
2:A:3269:VAL:O	2:A:3274:LEU:HG	2.07	0.55
2:A:4103:PHE:HB3	2:A:4107:GLU:HG3	1.88	0.55
2:G:875:ALA:O	2:G:879:HIS:ND1	2.40	0.55
2:B:153:ALA:HB2	2:B:168:ASP:HB2	1.89	0.55
2:B:2497:ASP:OD1	2:B:2498:HIS:N	2.40	0.55
2:B:4636:THR:HG21	2:B:4639:MET:HE3	1.89	0.55
2:B:4967:TYR:CE2	2:B:5030:LYS:HG3	2.42	0.55
2:I:800:PHE:O	2:I:802:PHE:N	2.40	0.55
2:I:2439:GLU:OE2	2:I:2508:ARG:NH2	2.40	0.55
2:I:3324:VAL:O	2:I:3327:LEU:HD22	2.06	0.55
2:A:870:ILE:HG13	2:A:874:LEU:HD23	1.89	0.55
2:A:2362:GLU:HA	2:A:2369:ARG:NH1	2.20	0.55
2:G:215:THR:C	2:G:274:LEU:CD1	2.75	0.55
2:G:2031:LEU:HD11	2:G:3657:TYR:CE1	2.42	0.55
2:G:2439:GLU:OE2	2:G:2508:ARG:NH2	2.40	0.55
2:G:3206:LEU:HD21	2:G:3276:MET:CE	2.37	0.55
2:G:4045:VAL:HB	2:G:4159:ARG:HH11	1.72	0.55
2:B:1478:ASP:OD1	2:B:1482:ASN:N	2.40	0.55
2:B:1638:ALA:HB1	2:B:1647:CYS:SG	2.47	0.55
2:B:2305:CYS:SG	2:B:2328:GLY:N	2.80	0.55
2:B:2736:ASP:OD1	2:B:2891:LYS:NZ	2.39	0.55
2:B:4809:PHE:O	2:B:4812:HIS:HB2	2.07	0.55
2:I:128:THR:OG1	2:I:186:SER:OG	2.24	0.55
2:I:495:ASN:HD22	2:I:550:LYS:HE3	1.71	0.55
2:I:875:ALA:O	2:I:879:HIS:ND1	2.40	0.55
2:I:3206:LEU:HD21	2:I:3276:MET:CE	2.37	0.55
2:I:3522:LEU:HD21	2:I:3603:LEU:HD21	1.88	0.55
2:I:3768:SER:HA	2:I:3771:HIS:CE1	2.41	0.55
2:I:4700:GLN:OE1	2:I:4703:ARG:NH2	2.40	0.55
2:A:20:VAL:HG21	2:A:202:MET:CE	2.37	0.54
2:A:2283:ASN:HB2	2:A:2286:LEU:HB2	1.88	0.54
2:A:2439:GLU:OE2	2:A:2508:ARG:NH2	2.40	0.54
2:A:3416:VAL:HG21	2:A:3517:MET:CE	2.35	0.54
1:J:31:GLN:HG3	1:J:98:ILE:HD11	1.89	0.54
1:O:31:GLN:HB3	2:B:1299:GLN:OE1	2.07	0.54
2:G:1490:SER:OG	2:G:1491:ASN:N	2.40	0.54
2:G:2497:ASP:OD1	2:G:2498:HIS:N	2.40	0.54
2:G:3522:LEU:HD21	2:G:3603:LEU:HD21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3768:SER:HA	2:G:3771:HIS:CE1	2.41	0.54
2:B:2894:LEU:CA	2:B:2897:LYS:HZ1	2.18	0.54
2:B:3274:LEU:HB2	2:B:3275:PRO:HD3	1.89	0.54
2:I:695:TYR:CD2	2:I:1240:LYS:HE3	2.43	0.54
2:I:2305:CYS:SG	2:I:2328:GLY:N	2.80	0.54
2:I:2472:LEU:HD23	2:I:2494:PHE:CZ	2.41	0.54
2:I:4967:TYR:CE2	2:I:5030:LYS:HG3	2.42	0.54
2:A:153:ALA:HB2	2:A:168:ASP:HB2	1.89	0.54
2:A:875:ALA:O	2:A:879:HIS:ND1	2.40	0.54
2:G:2029:GLN:NE2	2:G:2033:ASP:OD1	2.39	0.54
2:G:4967:TYR:CE2	2:G:5030:LYS:HG3	2.42	0.54
2:B:2031:LEU:HD11	2:B:3657:TYR:CE1	2.42	0.54
2:B:3768:SER:HA	2:B:3771:HIS:CE1	2.42	0.54
2:B:4655:PHE:CE2	2:B:4659:ILE:HD11	2.42	0.54
2:B:4700:GLN:OE1	2:B:4703:ARG:NH2	2.40	0.54
2:I:215:THR:C	2:I:274:LEU:CD1	2.75	0.54
2:I:870:ILE:HG13	2:I:874:LEU:HD23	1.89	0.54
2:I:4077:PHE:CE1	2:I:4097:MET:HE1	2.43	0.54
2:A:877:ASN:HA	2:A:970:LEU:H	1.73	0.54
2:A:1122:TYR:HE1	2:A:1133:HIS:CE1	2.26	0.54
2:A:4045:VAL:HB	2:A:4159:ARG:HH11	1.72	0.54
2:A:4976:GLU:O	2:A:4980:LEU:HD23	2.07	0.54
2:G:695:TYR:HD2	2:G:1240:LYS:HE3	1.71	0.54
2:G:3269:VAL:O	2:G:3274:LEU:HG	2.07	0.54
2:G:3274:LEU:HB2	2:G:3275:PRO:HD3	1.89	0.54
2:G:3320:LEU:O	2:G:3324:VAL:HG23	2.08	0.54
2:B:875:ALA:O	2:B:879:HIS:ND1	2.40	0.54
2:B:4077:PHE:CE1	2:B:4097:MET:HE1	2.43	0.54
2:I:3554:GLN:NE2	2:I:3593:VAL:HG11	2.22	0.54
1:F:31:GLN:HB3	2:A:1299:GLN:OE1	2.07	0.54
2:A:215:THR:C	2:A:274:LEU:CD1	2.75	0.54
2:A:2497:ASP:OD1	2:A:2498:HIS:N	2.40	0.54
2:G:128:THR:OG1	2:G:186:SER:OG	2.24	0.54
2:G:695:TYR:CD2	2:G:1240:LYS:HE3	2.43	0.54
2:G:1122:TYR:HE1	2:G:1133:HIS:CE1	2.26	0.54
2:G:4103:PHE:HB3	2:G:4107:GLU:HG3	1.88	0.54
2:G:4655:PHE:CE2	2:G:4659:ILE:HD11	2.42	0.54
2:G:4976:GLU:O	2:G:4980:LEU:HD23	2.07	0.54
2:B:695:TYR:CD2	2:B:1240:LYS:HE3	2.43	0.54
2:B:3553:LEU:HB2	2:B:3593:VAL:HG13	1.89	0.54
2:I:877:ASN:HA	2:I:970:LEU:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1122:TYR:HE1	2:I:1133:HIS:CE1	2.26	0.54
2:I:3320:LEU:O	2:I:3324:VAL:HG23	2.08	0.54
2:A:495:ASN:HD22	2:A:550:LYS:HE3	1.71	0.54
2:A:695:TYR:CD2	2:A:1240:LYS:HE3	2.43	0.54
2:A:1638:ALA:HB1	2:A:1647:CYS:SG	2.47	0.54
2:A:2635:GLU:HA	2:A:2635:GLU:OE2	2.07	0.54
2:A:3227:ARG:HA	2:A:3232:LEU:CD1	2.37	0.54
2:A:4104:THR:HG22	2:A:4107:GLU:HG2	1.88	0.54
2:A:4636:THR:HG21	2:A:4639:MET:HE3	1.89	0.54
2:G:2653:LYS:HG3	2:G:2661:TRP:CD1	2.42	0.54
2:B:873:LYS:HG2	2:B:970:LEU:HD13	1.89	0.54
2:B:877:ASN:HA	2:B:970:LEU:H	1.73	0.54
2:B:3206:LEU:HD21	2:B:3276:MET:CE	2.37	0.54
2:I:664:PHE:HB3	2:I:811:CYS:SG	2.46	0.54
2:I:1490:SER:OG	2:I:1491:ASN:N	2.40	0.54
2:I:2497:ASP:OD1	2:I:2498:HIS:N	2.40	0.54
2:I:2697:ARG:HA	2:I:2700:MET:HE2	1.88	0.54
2:I:3262:ARG:HA	2:I:3326:ASN:OD1	2.08	0.54
2:I:4045:VAL:HB	2:I:4159:ARG:HH11	1.72	0.54
2:I:4809:PHE:O	2:I:4812:HIS:HB2	2.07	0.54
2:A:886:ARG:NE	2:A:904:HIS:HB2	2.22	0.54
2:A:2653:LYS:HG3	2:A:2661:TRP:CD1	2.42	0.54
2:G:877:ASN:HA	2:G:970:LEU:H	1.73	0.54
2:G:1478:ASP:OD1	2:G:1482:ASN:N	2.40	0.54
2:G:2635:GLU:HA	2:G:2635:GLU:OE2	2.07	0.54
2:G:4182:GLU:HB2	2:G:4983:HIS:HE2	1.73	0.54
2:B:695:TYR:HD2	2:B:1240:LYS:HE3	1.71	0.54
2:B:3067:CYS:O	2:B:3071:LEU:HD23	2.07	0.54
2:B:3227:ARG:HA	2:B:3232:LEU:CD1	2.37	0.54
2:I:2031:LEU:HD11	2:I:3657:TYR:CE1	2.42	0.54
2:I:2653:LYS:HG3	2:I:2661:TRP:CD1	2.42	0.54
2:I:2807:TRP:HB2	2:I:2808:PRO:HD3	1.89	0.54
2:I:3762:ARG:HH11	2:I:3762:ARG:HG3	1.73	0.54
1:H:31:GLN:HG3	1:H:98:ILE:HD11	1.89	0.54
2:G:2653:LYS:HB2	2:G:2657:LEU:HD12	1.89	0.54
2:G:4104:THR:HG22	2:G:4107:GLU:HG2	1.88	0.54
2:B:182:LEU:HD22	2:B:198:THR:HG21	1.90	0.54
2:B:1122:TYR:HE1	2:B:1133:HIS:CE1	2.26	0.54
2:B:3320:LEU:O	2:B:3324:VAL:HG23	2.08	0.54
2:B:4045:VAL:HB	2:B:4159:ARG:HH11	1.72	0.54
2:B:4092:ASP:CG	2:B:4095:LYS:HZ3	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:873:LYS:HG2	2:I:970:LEU:HD13	1.89	0.54
2:I:2369:ARG:NE	2:I:2369:ARG:HA	2.23	0.54
2:I:4963:ILE:HB	2:I:4968:PHE:HE2	1.71	0.54
2:A:1490:SER:OG	2:A:1491:ASN:N	2.40	0.54
2:A:2634:ASN:HD21	2:A:2636:PHE:HB2	1.72	0.54
2:A:4809:PHE:O	2:A:4812:HIS:HB2	2.07	0.54
2:A:4839:MET:CB	2:G:4823:LEU:HD11	2.35	0.54
2:G:182:LEU:HD22	2:G:198:THR:HG21	1.90	0.54
2:G:3227:ARG:HA	2:G:3232:LEU:CD1	2.37	0.54
2:G:3554:GLN:NE2	2:G:3593:VAL:HG11	2.22	0.54
2:G:3813:GLN:HB3	2:G:3899:PHE:CE2	2.43	0.54
2:B:2439:GLU:OE2	2:B:2508:ARG:NH2	2.40	0.54
2:B:3044:CYS:SG	2:B:3092:LEU:HD22	2.48	0.54
2:B:4103:PHE:HB3	2:B:4107:GLU:HG3	1.88	0.54
2:B:4796:MET:HE2	2:B:4800:LEU:HG	1.90	0.54
2:I:182:LEU:HD22	2:I:198:THR:HG21	1.90	0.54
2:I:2624:ARG:O	2:I:2627:VAL:HG22	2.08	0.54
2:I:3067:CYS:O	2:I:3071:LEU:HD23	2.08	0.54
2:I:3553:LEU:HB2	2:I:3593:VAL:HG13	1.89	0.54
2:A:664:PHE:HB3	2:A:811:CYS:SG	2.46	0.54
2:A:1985:THR:O	2:A:1986:MET:HG3	2.08	0.54
2:A:3813:GLN:HB3	2:A:3899:PHE:CE2	2.43	0.54
2:A:4967:TYR:CE2	2:A:5030:LYS:HG3	2.42	0.54
2:G:2369:ARG:HA	2:G:2369:ARG:NE	2.23	0.54
2:G:3107:VAL:HG22	2:G:3175:LEU:HD21	1.90	0.54
2:B:20:VAL:HG21	2:B:202:MET:CE	2.36	0.54
2:B:2098:VAL:CG2	2:B:2101:MET:HE2	2.38	0.54
2:I:3037:GLU:O	2:I:3040:THR:OG1	2.19	0.54
2:I:3157:ILE:HA	2:I:3161:VAL:CG2	2.38	0.54
2:A:182:LEU:HD22	2:A:198:THR:HG21	1.90	0.54
2:A:4735:GLU:OE1	2:A:4735:GLU:N	2.34	0.54
1:J:31:GLN:HA	1:J:98:ILE:HD11	1.90	0.54
2:G:153:ALA:HB2	2:G:168:ASP:HB2	1.89	0.54
2:G:2862:LEU:HD22	2:G:2929:PHE:HA	1.90	0.54
2:G:4077:PHE:CE1	2:G:4097:MET:HE1	2.43	0.54
2:B:2653:LYS:HB2	2:B:2657:LEU:HD12	1.89	0.54
2:A:1478:ASP:OD1	2:A:1482:ASN:N	2.40	0.53
2:A:2807:TRP:HB2	2:A:2808:PRO:HD3	1.90	0.53
2:A:3107:VAL:HG22	2:A:3175:LEU:HD21	1.90	0.53
2:A:3262:ARG:HA	2:A:3326:ASN:OD1	2.08	0.53
2:A:3274:LEU:HB2	2:A:3275:PRO:HD3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3320:LEU:O	2:A:3324:VAL:HG23	2.08	0.53
2:G:2307:LEU:HD11	2:G:2362:GLU:HB2	1.91	0.53
2:G:4636:THR:HG21	2:G:4639:MET:HE3	1.89	0.53
2:G:4735:GLU:OE1	2:G:4735:GLU:N	2.34	0.53
2:B:3107:VAL:HG22	2:B:3175:LEU:HD21	1.90	0.53
2:B:3262:ARG:HA	2:B:3326:ASN:OD1	2.08	0.53
2:I:2098:VAL:CG2	2:I:2101:MET:HE2	2.39	0.53
2:I:2653:LYS:HB2	2:I:2657:LEU:HD12	1.89	0.53
2:I:3813:GLN:HB3	2:I:3899:PHE:CE2	2.43	0.53
2:A:2964:LEU:CD2	2:A:3042:LEU:HD12	2.32	0.53
2:A:3044:CYS:SG	2:A:3092:LEU:HD22	2.48	0.53
2:A:4552:LEU:HA	2:A:4555:LEU:HD12	1.91	0.53
2:A:4677:LEU:HD21	2:A:4706:LEU:HD21	1.90	0.53
2:G:3067:CYS:O	2:G:3071:LEU:HD23	2.07	0.53
2:G:3281:LEU:CB	2:G:3312:LEU:HD21	2.37	0.53
2:G:3524:MET:HG3	2:G:3595:ARG:HD2	1.89	0.53
2:B:2862:LEU:HD22	2:B:2929:PHE:HA	1.90	0.53
2:B:3762:ARG:HG3	2:B:3762:ARG:HH11	1.73	0.53
2:B:3813:GLN:HB3	2:B:3899:PHE:CE2	2.43	0.53
2:I:2587:TYR:OH	2:I:2591:ARG:NH2	2.36	0.53
2:I:3529:ASP:OD2	2:I:3595:ARG:NH2	2.30	0.53
2:A:215:THR:C	2:A:274:LEU:HD11	2.29	0.53
2:A:706:GLY:N	2:A:709:ASP:OD2	2.31	0.53
2:A:2653:LYS:HB2	2:A:2657:LEU:HD12	1.89	0.53
2:A:4077:PHE:CE1	2:A:4097:MET:HE1	2.44	0.53
2:G:215:THR:C	2:G:274:LEU:HD11	2.29	0.53
2:G:1985:THR:O	2:G:1986:MET:HG3	2.08	0.53
2:G:3553:LEU:HB2	2:G:3593:VAL:HG13	1.89	0.53
2:G:4688:ILE:HD12	2:G:4737:ILE:HD12	1.91	0.53
2:B:2624:ARG:O	2:B:2627:VAL:HG22	2.08	0.53
2:B:4688:ILE:HD12	2:B:4737:ILE:HD12	1.91	0.53
2:A:4700:GLN:OE1	2:A:4703:ARG:NH2	2.40	0.53
1:O:31:GLN:HG3	1:O:98:ILE:HD11	1.89	0.53
2:G:1018:ASN:OD1	2:G:1019:PRO:HD2	2.09	0.53
2:G:2098:VAL:CG2	2:G:2101:MET:CE	2.79	0.53
2:G:2283:ASN:HB2	2:G:2286:LEU:HB2	1.88	0.53
2:G:2623:LEU:O	2:G:2627:VAL:HG13	2.08	0.53
2:G:2807:TRP:HB2	2:G:2808:PRO:HD3	1.90	0.53
2:G:3557:LEU:HD23	2:G:3557:LEU:H	1.74	0.53
2:G:3941:ASP:OD1	2:G:3942:VAL:N	2.42	0.53
2:B:2635:GLU:HA	2:B:2635:GLU:OE2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3157:ILE:HA	2:B:3161:VAL:CG2	2.38	0.53
2:I:2867:LEU:HD22	2:I:2928:LYS:HG2	1.89	0.53
2:I:3107:VAL:HG22	2:I:3175:LEU:HD21	1.90	0.53
2:I:3524:MET:HG3	2:I:3595:ARG:HD2	1.89	0.53
2:I:4182:GLU:HB2	2:I:4983:HIS:HE2	1.73	0.53
2:A:3524:MET:HG3	2:A:3595:ARG:HD2	1.89	0.53
2:G:229:GLU:N	2:G:229:GLU:OE1	2.42	0.53
2:G:2515:GLN:O	2:G:2519:LEU:HD12	2.09	0.53
2:G:3262:ARG:HA	2:G:3326:ASN:OD1	2.08	0.53
2:G:4552:LEU:HA	2:G:4555:LEU:HD12	1.90	0.53
2:G:4809:PHE:O	2:G:4812:HIS:HB2	2.07	0.53
2:B:2496:PRO:HD3	2:B:2546:MET:HE1	1.90	0.53
2:B:2623:LEU:O	2:B:2627:VAL:HG13	2.08	0.53
2:B:2656:CYS:HA	2:B:2711:PRO:HG3	1.91	0.53
2:B:3524:MET:HG3	2:B:3595:ARG:HD2	1.89	0.53
2:B:4128:PHE:HD1	2:B:4131:ARG:HH21	1.55	0.53
2:B:4677:LEU:HD21	2:B:4706:LEU:HD21	1.90	0.53
2:I:1076:ARG:NH2	2:I:1655:GLU:OE1	2.41	0.53
2:I:2307:LEU:HD11	2:I:2362:GLU:HB2	1.91	0.53
2:I:3227:ARG:HA	2:I:3232:LEU:CD1	2.37	0.53
2:I:4636:THR:HG21	2:I:4639:MET:HE3	1.89	0.53
2:A:2023:LEU:HD22	2:A:2027:ILE:HG21	1.91	0.53
2:A:2515:GLN:O	2:A:2519:LEU:HD12	2.09	0.53
2:A:2624:ARG:O	2:A:2627:VAL:HG22	2.08	0.53
2:A:3067:CYS:O	2:A:3071:LEU:HD23	2.08	0.53
2:A:3416:VAL:CG2	2:A:3517:MET:HE2	2.38	0.53
1:O:31:GLN:HA	1:O:98:ILE:HD11	1.91	0.53
2:G:981:GLN:OE1	2:G:981:GLN:N	2.41	0.53
2:G:2624:ARG:O	2:G:2627:VAL:HG22	2.08	0.53
2:G:2960:LEU:HA	2:G:2963:LEU:HD12	1.91	0.53
2:G:3044:CYS:SG	2:G:3092:LEU:HD22	2.48	0.53
2:G:4677:LEU:HD21	2:G:4706:LEU:HD21	1.90	0.53
2:B:215:THR:C	2:B:274:LEU:HD11	2.29	0.53
2:B:2960:LEU:HA	2:B:2963:LEU:HD12	1.91	0.53
2:I:1478:ASP:OD1	2:I:1482:ASN:N	2.40	0.53
2:I:2515:GLN:O	2:I:2519:LEU:HD12	2.09	0.53
2:I:2623:LEU:O	2:I:2627:VAL:HG13	2.08	0.53
2:I:3274:LEU:HB2	2:I:3275:PRO:HD3	1.89	0.53
2:A:283:ARG:NH1	2:A:290:TYR:OH	2.42	0.53
2:A:981:GLN:OE1	2:A:981:GLN:N	2.41	0.53
2:A:2960:LEU:HA	2:A:2963:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3414:ARG:HH11	2:A:3414:ARG:HG3	1.74	0.53
2:A:3553:LEU:HB2	2:A:3593:VAL:HG13	1.89	0.53
2:A:3557:LEU:HD23	2:A:3557:LEU:H	1.74	0.53
2:G:2023:LEU:HD22	2:G:2027:ILE:HG21	1.91	0.53
2:B:990:GLU:HG3	2:B:1024:TYR:CB	2.39	0.53
2:I:981:GLN:OE1	2:I:981:GLN:N	2.41	0.53
2:I:1018:ASN:OD1	2:I:1019:PRO:HD2	2.09	0.53
2:A:229:GLU:OE1	2:A:229:GLU:N	2.42	0.53
2:A:873:LYS:HG2	2:A:970:LEU:HD13	1.89	0.53
2:A:990:GLU:HG3	2:A:1024:TYR:CB	2.39	0.53
2:A:1076:ARG:NH2	2:A:1655:GLU:OE1	2.41	0.53
2:A:2867:LEU:HD22	2:A:2928:LYS:HG2	1.89	0.53
2:A:3218:VAL:HG23	2:A:3219:TYR:HD1	1.74	0.53
2:A:3281:LEU:CB	2:A:3312:LEU:HD21	2.37	0.53
2:A:3762:ARG:HH11	2:A:3762:ARG:HG3	1.73	0.53
2:A:4182:GLU:HB2	2:A:4983:HIS:HE2	1.73	0.53
2:G:721:LEU:HG	2:G:730:VAL:HG11	1.91	0.53
2:G:873:LYS:HG2	2:G:970:LEU:HD13	1.89	0.53
2:G:4128:PHE:HD1	2:G:4131:ARG:HH21	1.55	0.53
2:B:213:TYR:CD1	2:B:337:PRO:HB2	2.44	0.53
2:B:2023:LEU:HD22	2:B:2027:ILE:HG21	1.91	0.53
2:B:2307:LEU:HD11	2:B:2362:GLU:HB2	1.91	0.53
2:B:4182:GLU:HB2	2:B:4983:HIS:HE2	1.73	0.53
2:B:4563:ARG:NH1	2:B:4792:LEU:HD22	2.24	0.53
2:I:229:GLU:OE1	2:I:229:GLU:N	2.42	0.53
2:I:459:LEU:HD12	2:I:463:GLU:CG	2.34	0.53
2:I:1985:THR:O	2:I:1986:MET:HG3	2.08	0.53
2:I:2023:LEU:HD22	2:I:2027:ILE:HG21	1.91	0.53
2:I:3044:CYS:SG	2:I:3092:LEU:HD22	2.48	0.53
2:G:2966:TRP:HA	2:G:2969:ILE:HD12	1.91	0.53
2:G:3246:LEU:HD11	2:G:3281:LEU:HD21	1.91	0.53
2:G:3391:GLU:HA	2:G:3394:VAL:HG12	1.91	0.53
2:I:153:ALA:HB2	2:I:168:ASP:HB2	1.89	0.53
2:I:990:GLU:HG3	2:I:1024:TYR:CB	2.39	0.53
2:I:3391:GLU:HA	2:I:3394:VAL:HG12	1.91	0.53
2:A:3157:ILE:HA	2:A:3161:VAL:CG2	2.38	0.53
2:A:4563:ARG:NH1	2:A:4792:LEU:HD22	2.24	0.53
1:H:31:GLN:HA	1:H:98:ILE:HD11	1.91	0.53
2:B:1985:THR:O	2:B:1986:MET:HG3	2.08	0.53
2:B:2515:GLN:O	2:B:2519:LEU:HD12	2.09	0.53
2:B:4735:GLU:OE1	2:B:4735:GLU:N	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2966:TRP:HA	2:I:2969:ILE:HD12	1.91	0.53
2:A:2500:ALA:N	2:A:2553:TYR:CE1	2.72	0.52
2:G:2867:LEU:HD22	2:G:2928:LYS:HG2	1.89	0.52
2:G:4563:ARG:NH1	2:G:4792:LEU:HD22	2.24	0.52
2:B:62:LEU:HD21	2:B:267:ILE:HG23	1.91	0.52
2:B:1018:ASN:OD1	2:B:1019:PRO:HD2	2.09	0.52
2:B:2500:ALA:CA	2:B:2553:TYR:CE1	2.86	0.52
2:B:2867:LEU:HD22	2:B:2928:LYS:HG2	1.90	0.52
2:B:3557:LEU:HD23	2:B:3557:LEU:H	1.74	0.52
2:I:62:LEU:HD21	2:I:267:ILE:HG23	1.91	0.52
2:I:3941:ASP:OD1	2:I:3942:VAL:N	2.42	0.52
2:A:213:TYR:CD1	2:A:337:PRO:HB2	2.44	0.52
2:A:2992:GLU:HA	2:A:2995:ILE:HG12	1.92	0.52
2:A:3290:GLU:HG3	2:A:3309:SER:H	1.75	0.52
2:G:283:ARG:NH1	2:G:290:TYR:OH	2.42	0.52
2:G:990:GLU:HG3	2:G:1024:TYR:CB	2.39	0.52
2:G:3290:GLU:HG3	2:G:3309:SER:H	1.75	0.52
2:B:2807:TRP:HB2	2:B:2808:PRO:HD3	1.90	0.52
2:B:3290:GLU:HG3	2:B:3309:SER:H	1.75	0.52
2:B:3771:HIS:O	2:B:3815:LYS:NZ	2.38	0.52
2:I:213:TYR:CD1	2:I:337:PRO:HB2	2.44	0.52
2:I:3414:ARG:HH11	2:I:3414:ARG:HG3	1.74	0.52
2:A:2623:LEU:O	2:A:2627:VAL:HG13	2.08	0.52
2:A:2966:TRP:HA	2:A:2969:ILE:HD12	1.91	0.52
2:G:2656:CYS:HA	2:G:2711:PRO:HG3	1.91	0.52
2:G:2803:GLU:HA	2:G:2806:ARG:HB3	1.91	0.52
2:G:3281:LEU:HB3	2:G:3312:LEU:CD2	2.38	0.52
2:G:3414:ARG:HG3	2:G:3414:ARG:HH11	1.74	0.52
2:B:894:GLY:N	2:B:903:LEU:HD13	2.25	0.52
2:B:3414:ARG:HH11	2:B:3414:ARG:HG3	1.74	0.52
2:B:3529:ASP:OD2	2:B:3595:ARG:NH2	2.30	0.52
2:I:220:LEU:HB2	2:I:391:THR:O	2.10	0.52
2:I:2123:LEU:O	2:I:2127:GLN:HG2	2.09	0.52
2:I:2656:CYS:HA	2:I:2711:PRO:HG3	1.91	0.52
2:I:4677:LEU:HD21	2:I:4706:LEU:HD21	1.90	0.52
2:A:1653:LEU:O	2:A:1660:GLN:NE2	2.38	0.52
2:A:2307:LEU:HD11	2:A:2362:GLU:HB2	1.91	0.52
2:A:3402:CYS:HA	2:A:3405:LEU:HD12	1.92	0.52
2:A:4948:GLU:HA	2:A:4951:LYS:HG2	1.91	0.52
2:G:2540:THR:HG1	2:G:2541:PHE:HD2	1.58	0.52
2:G:3157:ILE:HA	2:G:3161:VAL:CG2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4700:GLN:OE1	2:G:4703:ARG:NH2	2.40	0.52
2:B:981:GLN:OE1	2:B:981:GLN:N	2.41	0.52
2:B:3941:ASP:OD1	2:B:3942:VAL:N	2.42	0.52
2:B:4552:LEU:HA	2:B:4555:LEU:HD12	1.91	0.52
2:I:3290:GLU:HG3	2:I:3309:SER:H	1.75	0.52
2:I:4235:VAL:HG13	2:I:4989:MET:HG3	1.91	0.52
2:I:4563:ARG:NH1	2:I:4792:LEU:HD22	2.24	0.52
2:A:459:LEU:HD12	2:A:463:GLU:CG	2.34	0.52
2:A:2656:CYS:HA	2:A:2711:PRO:HG3	1.91	0.52
2:A:2862:LEU:HD22	2:A:2929:PHE:HA	1.90	0.52
2:A:2862:LEU:HB2	2:A:2929:PHE:CD2	2.45	0.52
2:A:3648:ARG:NH2	2:A:3862:ASP:OD2	2.42	0.52
2:G:894:GLY:N	2:G:903:LEU:HD13	2.25	0.52
2:G:2123:LEU:O	2:G:2127:GLN:HG2	2.09	0.52
2:G:2760:GLU:HG2	2:G:2797:PHE:CE2	2.44	0.52
2:G:2959:PHE:O	2:G:2963:LEU:HG	2.10	0.52
2:G:3762:ARG:HH11	2:G:3762:ARG:HG3	1.73	0.52
2:G:4235:VAL:HG13	2:G:4989:MET:HG3	1.91	0.52
2:B:232:THR:HG22	2:B:258:SER:HB3	1.92	0.52
2:B:283:ARG:NH1	2:B:290:TYR:OH	2.42	0.52
2:B:4104:THR:HG22	2:B:4107:GLU:CD	2.30	0.52
2:I:484:LEU:O	2:I:488:LEU:HG	2.10	0.52
2:I:3557:LEU:HD23	2:I:3557:LEU:H	1.74	0.52
2:A:220:LEU:HB2	2:A:391:THR:O	2.10	0.52
2:A:232:THR:HG22	2:A:258:SER:HB3	1.92	0.52
2:A:721:LEU:HG	2:A:730:VAL:HG11	1.91	0.52
2:A:2760:GLU:HG2	2:A:2797:PHE:CE2	2.44	0.52
2:A:3246:LEU:HD11	2:A:3281:LEU:HD21	1.91	0.52
2:A:3281:LEU:HB3	2:A:3312:LEU:CD2	2.38	0.52
2:A:3941:ASP:OD1	2:A:3942:VAL:N	2.42	0.52
2:G:232:THR:HG22	2:G:258:SER:HB3	1.92	0.52
2:G:3332:ALA:HB1	2:G:3334:TRP:CD1	2.45	0.52
2:G:3402:CYS:HA	2:G:3405:LEU:HD12	1.92	0.52
2:G:3416:VAL:HG21	2:G:3517:MET:CE	2.35	0.52
2:B:220:LEU:HD21	2:B:262:LEU:HG	1.92	0.52
2:B:706:GLY:N	2:B:709:ASP:OD2	2.31	0.52
2:B:2369:ARG:HA	2:B:2369:ARG:NE	2.23	0.52
2:B:2966:TRP:HA	2:B:2969:ILE:HD12	1.91	0.52
2:I:215:THR:C	2:I:274:LEU:HD11	2.29	0.52
2:I:220:LEU:HD21	2:I:262:LEU:HG	1.92	0.52
2:I:2960:LEU:HA	2:I:2963:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4128:PHE:HD1	2:I:4131:ARG:HH21	1.55	0.52
2:I:4791:TYR:CE1	2:I:4818:MET:HE1	2.36	0.52
2:A:2369:ARG:NE	2:A:2369:ARG:HA	2.23	0.52
2:A:3332:ALA:HB1	2:A:3334:TRP:CD1	2.45	0.52
2:A:3357:HIS:O	2:A:3361:THR:HG23	2.10	0.52
2:A:3391:GLU:HA	2:A:3394:VAL:HG12	1.91	0.52
2:G:1649:ASP:OD1	2:G:1650:ILE:N	2.43	0.52
2:G:2992:GLU:HA	2:G:2995:ILE:HG12	1.91	0.52
2:B:2894:LEU:HG	2:B:2897:LYS:HZ1	1.74	0.52
2:I:1996:ARG:NE	2:I:1996:ARG:HA	2.25	0.52
2:I:4552:LEU:HA	2:I:4555:LEU:HD12	1.90	0.52
2:A:2888:ARG:HA	2:A:2888:ARG:NE	2.25	0.52
2:A:3637:ARG:NH1	2:A:3638:MET:SD	2.83	0.52
2:G:213:TYR:CD1	2:G:337:PRO:HB2	2.44	0.52
2:G:484:LEU:O	2:G:488:LEU:HG	2.10	0.52
2:G:3416:VAL:CG2	2:G:3517:MET:HE2	2.38	0.52
2:G:4948:GLU:HA	2:G:4951:LYS:HG2	1.91	0.52
2:B:459:LEU:HD12	2:B:463:GLU:CG	2.34	0.52
2:B:2123:LEU:O	2:B:2127:GLN:HG2	2.09	0.52
2:B:3218:VAL:HG23	2:B:3219:TYR:HD1	1.74	0.52
2:B:3246:LEU:HD11	2:B:3281:LEU:HD21	1.91	0.52
2:B:3402:CYS:HA	2:B:3405:LEU:HD12	1.92	0.52
2:I:886:ARG:NE	2:I:904:HIS:HB2	2.22	0.52
2:I:893:TYR:HB3	2:I:960:MET:CE	2.40	0.52
2:I:2760:GLU:HG2	2:I:2797:PHE:CE2	2.44	0.52
2:I:2959:PHE:O	2:I:2963:LEU:HG	2.10	0.52
2:I:3332:ALA:HB1	2:I:3334:TRP:CD1	2.45	0.52
2:I:3648:ARG:NH2	2:I:3862:ASP:OD2	2.42	0.52
2:A:3045:LYS:O	2:A:3049:LEU:HD23	2.10	0.52
2:A:4077:PHE:HE1	2:A:4097:MET:CE	2.23	0.52
2:G:220:LEU:HB2	2:G:391:THR:O	2.10	0.52
2:G:3045:LYS:O	2:G:3049:LEU:HD23	2.10	0.52
2:G:3218:VAL:HG23	2:G:3219:TYR:HD1	1.74	0.52
2:B:229:GLU:OE1	2:B:229:GLU:N	2.42	0.52
2:B:867:LEU:HD13	2:B:929:LEU:HB3	1.92	0.52
2:B:1976:ARG:NH1	2:B:1997:GLU:OE1	2.26	0.52
2:B:1996:ARG:HA	2:B:1996:ARG:NE	2.25	0.52
2:B:3332:ALA:HB1	2:B:3334:TRP:CD1	2.45	0.52
2:B:4077:PHE:HE1	2:B:4097:MET:CE	2.23	0.52
2:I:894:GLY:N	2:I:903:LEU:HD13	2.25	0.52
2:I:2098:VAL:CG2	2:I:2101:MET:CE	2.79	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3955:MET:HE1	2:I:4016:LEU:HD13	1.92	0.52
2:A:752:VAL:O	2:A:753:PRO:C	2.40	0.52
2:A:1018:ASN:OD1	2:A:1019:PRO:HD2	2.09	0.52
2:A:4688:ILE:HD12	2:A:4737:ILE:HD12	1.91	0.52
2:G:1996:ARG:NE	2:G:1996:ARG:HA	2.25	0.52
2:G:3718:GLU:CD	2:G:3723:MET:HE1	2.29	0.52
2:B:886:ARG:NE	2:B:904:HIS:HB2	2.22	0.52
2:B:1649:ASP:OD1	2:B:1650:ILE:N	2.43	0.52
2:B:3045:LYS:O	2:B:3049:LEU:HD23	2.10	0.52
2:I:1649:ASP:OD1	2:I:1650:ILE:N	2.43	0.52
2:I:2862:LEU:HD22	2:I:2929:PHE:HA	1.91	0.52
2:I:3368:ARG:HB3	2:I:3401:LEU:HD11	1.92	0.52
2:I:3579:LEU:HB2	2:I:3582:ARG:HB2	1.92	0.52
2:I:4688:ILE:HD12	2:I:4737:ILE:HD12	1.91	0.52
2:A:62:LEU:HD21	2:A:267:ILE:HG23	1.91	0.51
2:A:484:LEU:O	2:A:488:LEU:HG	2.10	0.51
2:A:1649:ASP:OD1	2:A:1650:ILE:N	2.43	0.51
2:A:2932:MET:O	2:A:2934:GLY:N	2.43	0.51
2:G:2862:LEU:HB2	2:G:2929:PHE:CD2	2.45	0.51
2:G:3637:ARG:NH1	2:G:3638:MET:SD	2.83	0.51
2:B:893:TYR:HB3	2:B:960:MET:CE	2.40	0.51
2:B:2959:PHE:O	2:B:2963:LEU:HG	2.10	0.51
2:B:2992:GLU:HA	2:B:2995:ILE:HG12	1.92	0.51
2:I:232:THR:HG22	2:I:258:SER:HB3	1.92	0.51
2:I:283:ARG:NH1	2:I:290:TYR:OH	2.42	0.51
2:I:721:LEU:HG	2:I:730:VAL:HG11	1.91	0.51
2:I:1813:ARG:NH2	2:I:1817:GLU:OE2	2.43	0.51
2:I:4077:PHE:HE1	2:I:4097:MET:CE	2.23	0.51
1:F:31:GLN:HA	1:F:98:ILE:HD11	1.91	0.51
2:A:2123:LEU:O	2:A:2127:GLN:HG2	2.09	0.51
2:A:2624:ARG:NH2	2:A:2911:LEU:HA	2.25	0.51
2:G:62:LEU:HD21	2:G:267:ILE:HG23	1.91	0.51
2:G:2932:MET:O	2:G:2934:GLY:N	2.43	0.51
2:B:220:LEU:HB2	2:B:391:THR:O	2.10	0.51
2:B:484:LEU:O	2:B:488:LEU:HG	2.10	0.51
2:B:4948:GLU:HA	2:B:4951:LYS:HG2	1.91	0.51
2:I:3218:VAL:HG23	2:I:3219:TYR:HD1	1.74	0.51
2:I:3357:HIS:O	2:I:3361:THR:HG23	2.10	0.51
2:I:4104:THR:HG22	2:I:4107:GLU:CD	2.30	0.51
2:A:329:ARG:HA	2:A:329:ARG:NE	2.26	0.51
2:A:1996:ARG:NE	2:A:1996:ARG:HA	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:893:TYR:HB3	2:G:960:MET:CE	2.40	0.51
2:G:3329:ILE:HG21	2:G:3332:ALA:HB3	1.93	0.51
2:G:4104:THR:HG22	2:G:4107:GLU:CD	2.30	0.51
2:B:748:LEU:HG	2:B:750:LEU:HG	1.93	0.51
2:B:2888:ARG:NE	2:B:2888:ARG:HA	2.25	0.51
2:B:2917:ALA:HA	2:B:2920:ARG:HB2	1.93	0.51
2:B:3357:HIS:O	2:B:3361:THR:HG23	2.10	0.51
2:B:3637:ARG:NH1	2:B:3638:MET:SD	2.83	0.51
2:B:4097:MET:HB3	2:B:4108:ILE:HG12	1.93	0.51
2:I:262:LEU:HB3	2:I:280:LEU:HD12	1.91	0.51
2:I:4092:ASP:CG	2:I:4095:LYS:HZ3	2.14	0.51
2:A:894:GLY:N	2:A:903:LEU:HD13	2.25	0.51
2:A:1155:LEU:HD22	2:A:1184:ILE:HG12	1.93	0.51
2:A:2959:PHE:O	2:A:2963:LEU:HG	2.10	0.51
2:A:3155:ASP:O	2:A:3155:ASP:OD1	2.29	0.51
2:A:4104:THR:HG22	2:A:4107:GLU:CD	2.30	0.51
2:G:974:HIS:HB2	2:G:976:ARG:NH2	2.26	0.51
2:G:2888:ARG:NE	2:G:2888:ARG:HA	2.25	0.51
2:G:2917:ALA:HA	2:G:2920:ARG:HB2	1.93	0.51
2:G:3843:ASP:OD1	2:G:3845:ASN:N	2.44	0.51
2:G:4077:PHE:HE1	2:G:4097:MET:CE	2.23	0.51
2:B:2862:LEU:HB2	2:B:2929:PHE:CD2	2.45	0.51
2:B:3329:ILE:HG21	2:B:3332:ALA:HB3	1.93	0.51
2:I:3099:ALA:HA	2:I:3136:LEU:HD11	1.93	0.51
2:I:3246:LEU:HD11	2:I:3281:LEU:HD21	1.91	0.51
2:A:3329:ILE:HG21	2:A:3332:ALA:HB3	1.93	0.51
2:G:984:LEU:HA	2:G:987:ARG:CZ	2.41	0.51
2:G:4097:MET:HB3	2:G:4108:ILE:HG12	1.93	0.51
2:B:2587:TYR:OH	2:B:2591:ARG:NH2	2.36	0.51
2:B:2760:GLU:HG2	2:B:2797:PHE:CE2	2.44	0.51
2:B:4235:VAL:HG13	2:B:4989:MET:HG3	1.91	0.51
2:I:974:HIS:HB2	2:I:976:ARG:NH2	2.26	0.51
2:I:2803:GLU:HA	2:I:2806:ARG:HB3	1.91	0.51
2:I:2932:MET:O	2:I:2934:GLY:N	2.43	0.51
2:I:3329:ILE:HG21	2:I:3332:ALA:HB3	1.93	0.51
2:I:3889:GLN:HG3	2:I:3967:GLU:HG3	1.93	0.51
2:A:984:LEU:HA	2:A:987:ARG:CZ	2.41	0.51
2:A:1813:ARG:NH2	2:A:1817:GLU:OE2	2.43	0.51
2:A:2917:ALA:HA	2:A:2920:ARG:HB2	1.93	0.51
2:A:3099:ALA:HA	2:A:3136:LEU:HD11	1.93	0.51
2:A:3579:LEU:HB2	2:A:3582:ARG:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:23:VAL:HG13	1:H:47:LYS:HG2	1.93	0.51
2:G:1653:LEU:O	2:G:1660:GLN:NE2	2.38	0.51
2:G:2771:ILE:HG21	2:G:2791:LEU:HG	1.93	0.51
2:G:3357:HIS:O	2:G:3361:THR:HG23	2.10	0.51
2:B:940:GLY:H	2:B:1052:ASN:H	1.59	0.51
2:B:1813:ARG:NH2	2:B:1817:GLU:OE2	2.43	0.51
2:B:2301:TYR:HB3	2:B:2331:TYR:CE2	2.46	0.51
2:B:2559:LEU:HB3	2:B:2606:CYS:SG	2.51	0.51
2:B:3155:ASP:OD1	2:B:3155:ASP:O	2.28	0.51
2:B:3391:GLU:HA	2:B:3394:VAL:HG12	1.91	0.51
2:B:3579:LEU:HB2	2:B:3582:ARG:HB2	1.92	0.51
2:B:3648:ARG:NH2	2:B:3862:ASP:OD2	2.41	0.51
2:B:3889:GLN:HG3	2:B:3967:GLU:HG3	1.93	0.51
2:I:2615:ARG:NH2	2:I:2618:MET:HE2	1.88	0.51
2:I:2917:ALA:HA	2:I:2920:ARG:HB2	1.93	0.51
2:I:3402:CYS:HA	2:I:3405:LEU:HD12	1.92	0.51
2:A:2803:GLU:HA	2:A:2806:ARG:HB3	1.91	0.51
2:A:3186:LEU:O	2:A:3188:PRO:HD2	2.11	0.51
2:A:3201:MET:HE3	2:A:3205:PHE:CD1	2.42	0.51
2:A:4204:GLN:HB3	2:A:4242:ILE:HD12	1.93	0.51
1:O:23:VAL:HG13	1:O:47:LYS:HG2	1.93	0.51
2:G:418:LEU:HD13	2:G:493:ARG:HB3	1.93	0.51
2:G:1813:ARG:NH2	2:G:1817:GLU:OE2	2.43	0.51
2:G:2624:ARG:NH2	2:G:2911:LEU:HA	2.25	0.51
2:G:3099:ALA:HA	2:G:3136:LEU:HD11	1.93	0.51
2:B:2321:ILE:HG13	2:B:2322:GLY:N	2.21	0.51
2:B:2750:LYS:HD3	2:B:2824:GLU:H	1.76	0.51
2:B:4204:GLN:HB3	2:B:4242:ILE:HD12	1.93	0.51
2:B:4856:PHE:O	2:B:4860:ARG:NH1	2.44	0.51
2:I:4204:GLN:HB3	2:I:4242:ILE:HD12	1.93	0.51
2:I:4948:GLU:HA	2:I:4951:LYS:HG2	1.91	0.51
2:A:209:CYS:SG	2:A:334:MET:HE1	2.50	0.51
2:A:262:LEU:HB3	2:A:280:LEU:HD12	1.91	0.51
2:A:279:PRO:HA	2:A:314:PHE:O	2.11	0.51
2:A:893:TYR:HB3	2:A:960:MET:CE	2.40	0.51
2:A:3376:GLU:OE2	2:A:3450:ASN:ND2	2.40	0.51
2:A:3771:HIS:O	2:A:3815:LYS:NZ	2.38	0.51
2:G:24:CYS:SG	2:G:200:TRP:CE3	3.04	0.51
2:G:329:ARG:NE	2:G:329:ARG:HA	2.26	0.51
2:G:2301:TYR:HB3	2:G:2331:TYR:CE2	2.46	0.51
2:G:3529:ASP:OD2	2:G:3595:ARG:NH2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3533:ILE:O	2:G:3537:LYS:HG2	2.11	0.51
2:G:3648:ARG:NH2	2:G:3862:ASP:OD2	2.41	0.51
2:B:227:MET:HE1	2:B:389:PHE:HD2	1.76	0.51
2:B:984:LEU:HA	2:B:987:ARG:CZ	2.41	0.51
2:B:1155:LEU:HD22	2:B:1184:ILE:HG12	1.93	0.51
2:B:2894:LEU:CB	2:B:2897:LYS:HZ1	2.23	0.51
2:B:3955:MET:HE1	2:B:4016:LEU:HD13	1.92	0.51
2:I:2301:TYR:HB3	2:I:2331:TYR:CE2	2.46	0.51
2:I:2626:LEU:HD13	2:I:2644:LEU:HD21	1.93	0.51
2:I:2668:SER:OG	2:I:2671:GLU:HB2	2.11	0.51
2:I:2862:LEU:HB2	2:I:2929:PHE:CD2	2.45	0.51
2:I:3533:ILE:O	2:I:3537:LYS:HG2	2.11	0.51
2:I:3637:ARG:NH1	2:I:3638:MET:SD	2.83	0.51
2:A:220:LEU:HD21	2:A:262:LEU:HG	1.92	0.51
2:A:418:LEU:HD13	2:A:493:ARG:HB3	1.93	0.51
2:A:748:LEU:HG	2:A:750:LEU:HG	1.92	0.51
2:A:2301:TYR:HB3	2:A:2331:TYR:CE2	2.46	0.51
2:A:2750:LYS:HD3	2:A:2824:GLU:H	1.76	0.51
2:A:3206:LEU:HD21	2:A:3276:MET:HE1	1.92	0.51
2:G:1155:LEU:HD22	2:G:1184:ILE:HG12	1.93	0.51
2:G:1259:ARG:NH1	2:G:1591:CYS:SG	2.84	0.51
2:G:1976:ARG:NH1	2:G:1997:GLU:OE1	2.26	0.51
2:G:2496:PRO:HD3	2:G:2546:MET:HE1	1.93	0.51
2:G:3368:ARG:HB3	2:G:3401:LEU:HD11	1.92	0.51
2:B:2713:ASP:OD1	2:B:3016:TYR:OH	2.12	0.51
2:I:883:ALA:HA	2:I:886:ARG:CZ	2.41	0.51
2:I:2500:ALA:N	2:I:2553:TYR:CE1	2.72	0.51
2:I:3155:ASP:OD1	2:I:3155:ASP:O	2.29	0.51
2:A:20:VAL:HG21	2:A:202:MET:HE2	1.92	0.51
2:A:2559:LEU:HB3	2:A:2606:CYS:SG	2.51	0.51
2:A:4735:GLU:O	2:A:4739:GLU:HG2	2.11	0.51
2:A:4856:PHE:O	2:A:4860:ARG:NH1	2.44	0.51
1:J:23:VAL:HG13	1:J:47:LYS:HG2	1.93	0.51
2:G:876:GLU:HA	2:G:879:HIS:HD1	1.76	0.51
2:G:2321:ILE:HG13	2:G:2322:GLY:N	2.21	0.51
2:G:3186:LEU:O	2:G:3188:PRO:HD2	2.11	0.51
2:B:974:HIS:HB2	2:B:976:ARG:NH2	2.26	0.51
2:B:2686:LEU:HG	2:B:2696:TYR:HE2	1.77	0.51
2:B:2771:ILE:HG21	2:B:2791:LEU:HG	1.93	0.51
2:I:940:GLY:H	2:I:1052:ASN:H	1.59	0.51
2:I:4856:PHE:O	2:I:4860:ARG:NH1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:23:VAL:HG13	1:F:47:LYS:HG2	1.93	0.50
2:A:893:TYR:HA	2:A:903:LEU:O	2.11	0.50
2:A:2867:LEU:HD21	2:A:2927:LEU:HB3	1.93	0.50
2:A:3533:ILE:O	2:A:3537:LYS:HG2	2.11	0.50
2:A:3889:GLN:HG3	2:A:3967:GLU:HG3	1.93	0.50
2:A:4835:LYS:HE3	2:G:4822:THR:HG21	1.93	0.50
2:G:262:LEU:HB3	2:G:280:LEU:HD12	1.91	0.50
2:G:980:ALA:HB1	2:G:1055:PRO:HG3	1.94	0.50
2:G:1213:PHE:HD1	2:G:1216:ILE:HD12	1.77	0.50
2:G:2668:SER:OG	2:G:2671:GLU:HB2	2.11	0.50
2:G:3836:MET:HE3	2:G:3885:PHE:HZ	1.74	0.50
2:G:3844:LEU:HD21	2:G:3936:TYR:HB2	1.93	0.50
2:B:721:LEU:HG	2:B:730:VAL:HG11	1.91	0.50
2:B:3836:MET:HE3	2:B:3885:PHE:HZ	1.73	0.50
2:I:2992:GLU:HA	2:I:2995:ILE:HG12	1.92	0.50
2:A:941:MET:HB2	2:A:1051:TYR:CE1	2.47	0.50
2:A:4235:VAL:HG13	2:A:4989:MET:HG3	1.91	0.50
1:J:31:GLN:HE21	1:J:96:THR:CB	2.24	0.50
1:O:31:GLN:HE21	1:O:96:THR:CB	2.24	0.50
2:G:220:LEU:HD21	2:G:262:LEU:HG	1.92	0.50
2:G:459:LEU:HD12	2:G:463:GLU:CG	2.34	0.50
2:G:3376:GLU:OE2	2:G:3450:ASN:ND2	2.40	0.50
2:G:3579:LEU:HB2	2:G:3582:ARG:HB2	1.92	0.50
2:G:4204:GLN:HB3	2:G:4242:ILE:HD12	1.93	0.50
2:B:262:LEU:HB3	2:B:280:LEU:HD12	1.91	0.50
2:B:279:PRO:HA	2:B:314:PHE:O	2.11	0.50
2:B:941:MET:HB2	2:B:1051:TYR:CE1	2.47	0.50
2:B:2626:LEU:HD13	2:B:2644:LEU:HD21	1.93	0.50
2:B:2932:MET:O	2:B:2934:GLY:N	2.43	0.50
2:B:3843:ASP:OD1	2:B:3845:ASN:N	2.44	0.50
2:I:748:LEU:HG	2:I:750:LEU:HG	1.92	0.50
2:I:867:LEU:HD13	2:I:929:LEU:HB3	1.92	0.50
2:I:941:MET:HB2	2:I:1051:TYR:CE1	2.46	0.50
2:I:1155:LEU:HD22	2:I:1184:ILE:HG12	1.93	0.50
2:I:3033:ASN:O	2:I:3036:LYS:N	2.45	0.50
2:I:3281:LEU:HB3	2:I:3312:LEU:CD2	2.38	0.50
2:I:3844:LEU:HD21	2:I:3936:TYR:HB2	1.93	0.50
2:A:883:ALA:HA	2:A:886:ARG:CZ	2.41	0.50
2:A:974:HIS:HB2	2:A:976:ARG:NH2	2.26	0.50
2:A:3955:MET:HE1	2:A:4016:LEU:HD13	1.93	0.50
2:G:893:TYR:HA	2:G:903:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3037:GLU:HB3	2:G:3088:VAL:HG21	1.93	0.50
2:G:3172:ILE:HD13	2:G:3194:LEU:HB2	1.94	0.50
2:G:3850:GLN:HB2	2:G:3873:LYS:NZ	2.27	0.50
2:B:752:VAL:O	2:B:753:PRO:C	2.40	0.50
2:B:3099:ALA:HA	2:B:3136:LEU:HD11	1.93	0.50
2:B:3172:ILE:HD13	2:B:3194:LEU:HB2	1.94	0.50
2:B:3850:GLN:HB2	2:B:3873:LYS:NZ	2.27	0.50
2:I:209:CYS:SG	2:I:334:MET:HE1	2.52	0.50
2:I:279:PRO:HA	2:I:314:PHE:O	2.11	0.50
2:I:663:TYR:CD2	2:I:804:PRO:HB3	2.47	0.50
2:I:2888:ARG:HA	2:I:2888:ARG:NE	2.25	0.50
2:I:3045:LYS:O	2:I:3049:LEU:HD23	2.10	0.50
2:I:3850:GLN:HB2	2:I:3873:LYS:NZ	2.27	0.50
1:F:31:GLN:NE2	1:F:96:THR:HB	2.26	0.50
2:A:1259:ARG:NH1	2:A:1591:CYS:SG	2.84	0.50
2:A:2696:TYR:CD2	2:A:3001:ILE:HD11	2.47	0.50
2:A:3844:LEU:HD21	2:A:3936:TYR:HB2	1.93	0.50
1:H:31:GLN:HE21	1:H:96:THR:CB	2.24	0.50
2:G:3033:ASN:O	2:G:3036:LYS:N	2.45	0.50
2:G:4796:MET:HE3	2:G:4800:LEU:HG	1.89	0.50
2:B:842:PRO:O	2:B:1197:GLY:N	2.32	0.50
2:B:2624:ARG:NH2	2:B:2911:LEU:HA	2.25	0.50
2:B:2668:SER:OG	2:B:2671:GLU:HB2	2.11	0.50
2:B:2803:GLU:HA	2:B:2806:ARG:HB3	1.91	0.50
2:B:3844:LEU:HD21	2:B:3936:TYR:HB2	1.93	0.50
2:B:4735:GLU:O	2:B:4739:GLU:HG2	2.11	0.50
2:I:2771:ILE:HG21	2:I:2791:LEU:HG	1.93	0.50
2:I:3843:ASP:OD1	2:I:3845:ASN:N	2.44	0.50
2:I:4045:VAL:HG12	2:I:4159:ARG:CZ	2.40	0.50
2:A:2771:ILE:HG21	2:A:2791:LEU:HG	1.93	0.50
2:A:3346:VAL:HG21	2:A:3414:ARG:HB3	1.94	0.50
2:A:3368:ARG:HB3	2:A:3401:LEU:HD11	1.92	0.50
2:A:3709:ALA:HB2	2:A:3782:MET:SD	2.52	0.50
2:A:4865:LYS:HZ1	2:A:4901:ILE:HA	1.77	0.50
2:G:663:TYR:CD2	2:G:804:PRO:HB3	2.47	0.50
2:G:748:LEU:HG	2:G:750:LEU:HG	1.92	0.50
2:G:2559:LEU:HB3	2:G:2606:CYS:SG	2.51	0.50
2:G:3155:ASP:O	2:G:3155:ASP:OD1	2.29	0.50
2:G:3889:GLN:HG3	2:G:3967:GLU:HG3	1.93	0.50
2:B:883:ALA:HA	2:B:886:ARG:CZ	2.41	0.50
2:B:2951:ILE:H	2:B:2951:ILE:HD12	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:329:ARG:HA	2:I:329:ARG:NE	2.26	0.50
2:I:984:LEU:HA	2:I:987:ARG:CZ	2.41	0.50
2:I:1259:ARG:NH1	2:I:1591:CYS:SG	2.84	0.50
2:A:980:ALA:HB1	2:A:1055:PRO:HG3	1.94	0.50
2:A:2626:LEU:HD13	2:A:2644:LEU:HD21	1.93	0.50
2:G:867:LEU:HD13	2:G:929:LEU:HB3	1.92	0.50
2:G:883:ALA:HA	2:G:886:ARG:CZ	2.41	0.50
2:G:2951:ILE:H	2:G:2951:ILE:HD12	1.77	0.50
2:G:3080:VAL:CG1	2:G:3081:MET:HE3	2.36	0.50
2:G:4856:PHE:O	2:G:4860:ARG:NH1	2.44	0.50
2:B:2527:LEU:HD12	2:B:2530:MET:CE	2.42	0.50
2:B:3281:LEU:HB3	2:B:3312:LEU:CD2	2.38	0.50
2:B:3368:ARG:HB3	2:B:3401:LEU:HD11	1.92	0.50
2:B:3416:VAL:CG2	2:B:3517:MET:HE1	2.41	0.50
2:I:876:GLU:HA	2:I:879:HIS:HD1	1.76	0.50
2:I:893:TYR:HA	2:I:903:LEU:O	2.11	0.50
2:I:1976:ARG:NH1	2:I:1997:GLU:OE1	2.26	0.50
2:I:2750:LYS:HD3	2:I:2824:GLU:H	1.76	0.50
2:A:24:CYS:SG	2:A:200:TRP:CE3	3.04	0.50
2:A:2630:VAL:HG13	2:A:2682:ILE:HD11	1.94	0.50
2:A:3005:LEU:HD12	2:A:3008:GLN:NE2	2.27	0.50
2:A:3037:GLU:HB3	2:A:3088:VAL:HG21	1.93	0.50
2:A:3595:ARG:O	2:A:3598:GLU:HG2	2.12	0.50
2:A:4097:MET:HB3	2:A:4108:ILE:HG12	1.93	0.50
2:G:984:LEU:HA	2:G:987:ARG:NH1	2.27	0.50
2:G:1676:LEU:HD22	2:G:2167:ILE:HD12	1.94	0.50
2:G:3327:LEU:CD1	2:G:3368:ARG:NH2	2.71	0.50
2:G:3984:ARG:NH1	2:G:3987:ASP:OD2	2.27	0.50
2:B:980:ALA:HB1	2:B:1055:PRO:HG3	1.94	0.50
2:B:984:LEU:HA	2:B:987:ARG:NH1	2.27	0.50
2:A:2496:PRO:HD3	2:A:2546:MET:HE1	1.94	0.50
2:A:3850:GLN:HB2	2:A:3873:LYS:NZ	2.27	0.50
1:J:31:GLN:HB3	2:I:1299:GLN:OE1	2.12	0.50
2:G:279:PRO:HA	2:G:314:PHE:O	2.11	0.50
2:G:2762:THR:O	2:G:2766:TRP:N	2.35	0.50
2:G:3080:VAL:HG12	2:G:3081:MET:HE2	1.92	0.50
2:G:3595:ARG:O	2:G:3598:GLU:HG2	2.12	0.50
2:B:329:ARG:NE	2:B:329:ARG:HA	2.26	0.50
2:B:509:GLU:N	2:B:509:GLU:OE2	2.45	0.50
2:B:876:GLU:HA	2:B:879:HIS:HD1	1.76	0.50
2:B:877:ASN:ND2	2:B:970:LEU:HB3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4072:VAL:HG13	2:B:4125:PHE:HD2	1.76	0.50
2:I:2527:LEU:HD12	2:I:2530:MET:CE	2.42	0.50
2:I:2696:TYR:CD2	2:I:3001:ILE:HD11	2.47	0.50
2:I:3172:ILE:HD13	2:I:3194:LEU:HB2	1.94	0.50
2:A:227:MET:HE3	2:A:389:PHE:CD2	2.47	0.50
2:A:932:LEU:HD22	2:A:984:LEU:HD21	1.94	0.50
2:A:2527:LEU:HD12	2:A:2530:MET:CE	2.42	0.50
2:A:2668:SER:OG	2:A:2671:GLU:HB2	2.11	0.50
2:A:3172:ILE:HD13	2:A:3194:LEU:HB2	1.94	0.50
1:O:31:GLN:NE2	1:O:96:THR:HB	2.26	0.50
2:G:877:ASN:ND2	2:G:970:LEU:HB3	2.27	0.50
2:G:940:GLY:H	2:G:1052:ASN:H	1.59	0.50
2:G:2686:LEU:HG	2:G:2696:TYR:HE2	1.77	0.50
2:G:2867:LEU:HD21	2:G:2927:LEU:HB3	1.93	0.50
2:B:2696:TYR:CD2	2:B:3001:ILE:HD11	2.47	0.50
2:B:3033:ASN:O	2:B:3036:LYS:N	2.45	0.50
2:B:3595:ARG:O	2:B:3598:GLU:HG2	2.12	0.50
2:I:418:LEU:HD13	2:I:493:ARG:HB3	1.93	0.50
2:I:2559:LEU:HB3	2:I:2606:CYS:SG	2.51	0.50
2:I:2624:ARG:NH2	2:I:2911:LEU:HA	2.25	0.50
2:I:3158:LEU:HD23	2:I:3159:ASP:H	1.77	0.50
2:I:3186:LEU:O	2:I:3188:PRO:HD2	2.11	0.50
2:I:3595:ARG:O	2:I:3598:GLU:HG2	2.12	0.50
2:I:4072:VAL:HG13	2:I:4125:PHE:HD2	1.77	0.50
2:I:4233:LEU:HD11	2:I:4679:ARG:HH22	1.77	0.50
2:A:1213:PHE:HD1	2:A:1216:ILE:HD12	1.77	0.49
2:A:3033:ASN:O	2:A:3036:LYS:N	2.45	0.49
2:G:2527:LEU:HA	2:G:2530:MET:HE2	1.94	0.49
2:G:2527:LEU:HD12	2:G:2530:MET:CE	2.42	0.49
2:G:3158:LEU:HD23	2:G:3159:ASP:H	1.77	0.49
2:G:4735:GLU:O	2:G:4739:GLU:HG2	2.11	0.49
2:B:663:TYR:CD2	2:B:804:PRO:HB3	2.47	0.49
2:B:878:ILE:HD11	2:B:925:SER:HB2	1.94	0.49
2:B:1213:PHE:HD1	2:B:1216:ILE:HD12	1.77	0.49
2:B:1259:ARG:NH1	2:B:1591:CYS:SG	2.84	0.49
2:B:2750:LYS:NZ	2:B:2824:GLU:OE1	2.37	0.49
2:B:3533:ILE:O	2:B:3537:LYS:HG2	2.11	0.49
2:I:2496:PRO:HD3	2:I:2546:MET:HE1	1.93	0.49
2:I:2686:LEU:HG	2:I:2696:TYR:HE2	1.76	0.49
2:I:4097:MET:HB3	2:I:4108:ILE:HG12	1.93	0.49
2:A:984:LEU:HA	2:A:987:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2469:ILE:CB	2:A:2502:MET:CE	2.89	0.49
2:A:2863:SER:OG	2:A:2925:GLU:OE2	2.30	0.49
2:A:3080:VAL:CG1	2:A:3081:MET:HE3	2.35	0.49
2:G:2500:ALA:N	2:G:2553:TYR:CE1	2.72	0.49
2:G:2750:LYS:HD3	2:G:2824:GLU:H	1.76	0.49
2:I:227:MET:HE3	2:I:389:PHE:CD2	2.47	0.49
2:I:2540:THR:HG1	2:I:2541:PHE:HD2	1.59	0.49
1:F:31:GLN:HE21	1:F:96:THR:CB	2.24	0.49
2:A:663:TYR:CD2	2:A:804:PRO:HB3	2.47	0.49
2:A:2641:LEU:HD12	2:A:2698:MET:HB3	1.93	0.49
2:A:3971:GLY:O	2:A:3973:CYS:N	2.45	0.49
2:G:3346:VAL:HG21	2:G:3414:ARG:HB3	1.94	0.49
2:B:2469:ILE:CB	2:B:2502:MET:CE	2.89	0.49
2:B:2985:ARG:HG2	2:B:2987:GLU:H	1.77	0.49
2:B:3186:LEU:O	2:B:3188:PRO:HD2	2.11	0.49
2:I:1653:LEU:O	2:I:1660:GLN:NE2	2.38	0.49
2:I:2321:ILE:HG13	2:I:2322:GLY:N	2.21	0.49
2:I:2630:VAL:HG13	2:I:2682:ILE:HD11	1.94	0.49
2:I:2641:LEU:HD12	2:I:2698:MET:HB3	1.93	0.49
2:I:3194:LEU:HD21	2:I:3276:MET:HB2	1.94	0.49
2:A:2951:ILE:H	2:A:2951:ILE:HD12	1.77	0.49
2:A:2985:ARG:HG2	2:A:2987:GLU:H	1.77	0.49
1:H:31:GLN:NE2	1:H:96:THR:HB	2.26	0.49
2:G:2696:TYR:CD2	2:G:3001:ILE:HD11	2.47	0.49
2:G:3709:ALA:HB2	2:G:3782:MET:SD	2.52	0.49
2:G:3771:HIS:O	2:G:3815:LYS:NZ	2.38	0.49
2:G:4233:LEU:HD11	2:G:4679:ARG:HH22	1.77	0.49
2:B:893:TYR:HA	2:B:903:LEU:O	2.11	0.49
2:I:877:ASN:ND2	2:I:970:LEU:HB3	2.27	0.49
2:I:984:LEU:HA	2:I:987:ARG:NH1	2.27	0.49
2:I:2867:LEU:HD21	2:I:2927:LEU:HB3	1.93	0.49
2:I:2951:ILE:H	2:I:2951:ILE:HD12	1.77	0.49
2:I:3187:ARG:HH12	2:I:3267:PRO:CB	2.26	0.49
2:I:3851:ASN:OD1	2:I:3946:GLN:NE2	2.46	0.49
2:A:1105:ALA:HB1	2:A:1109:LEU:HD22	1.95	0.49
2:A:2186:MET:O	2:A:2192:TYR:OH	2.22	0.49
2:A:2575:ARG:HH11	2:A:2578:MET:HE3	1.55	0.49
2:G:509:GLU:N	2:G:509:GLU:OE2	2.45	0.49
2:G:835:ARG:NH1	2:G:1210:SER:O	2.46	0.49
2:G:2641:LEU:HD12	2:G:2698:MET:HB3	1.93	0.49
2:G:2894:LEU:CA	2:G:2897:LYS:HZ1	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3594:ARG:NH2	2:G:3598:GLU:OE1	2.46	0.49
2:G:3767:GLN:OE1	2:G:3809:ASN:ND2	2.46	0.49
2:B:2863:SER:OG	2:B:2925:GLU:OE2	2.30	0.49
2:B:2867:LEU:HD21	2:B:2927:LEU:HB3	1.93	0.49
2:B:3158:LEU:HD23	2:B:3159:ASP:H	1.77	0.49
2:I:1676:LEU:HD22	2:I:2167:ILE:HD12	1.94	0.49
2:I:2863:SER:OG	2:I:2925:GLU:OE2	2.30	0.49
2:I:3709:ALA:HB2	2:I:3782:MET:SD	2.52	0.49
2:A:509:GLU:OE2	2:A:509:GLU:N	2.45	0.49
2:A:867:LEU:HD13	2:A:929:LEU:HB3	1.92	0.49
2:A:1676:LEU:HD22	2:A:2167:ILE:HD12	1.94	0.49
2:A:2575:ARG:NH1	2:A:2578:MET:SD	2.76	0.49
2:A:2644:LEU:O	2:A:2648:TYR:CD2	2.66	0.49
2:A:2929:PHE:HB2	2:A:2932:MET:SD	2.53	0.49
2:A:3327:LEU:HD21	2:A:3364:ARG:HH12	1.75	0.49
2:A:3718:GLU:CD	2:A:3723:MET:HE1	2.33	0.49
2:A:3843:ASP:OD1	2:A:3845:ASN:N	2.44	0.49
2:G:941:MET:HB2	2:G:1051:TYR:CE1	2.46	0.49
2:G:1105:ALA:HB1	2:G:1109:LEU:HD22	1.94	0.49
2:G:2626:LEU:HD13	2:G:2644:LEU:HD21	1.93	0.49
2:G:2630:VAL:HG13	2:G:2682:ILE:HD11	1.94	0.49
2:G:2802:LYS:O	2:G:2806:ARG:HB2	2.13	0.49
2:G:2929:PHE:HB2	2:G:2932:MET:SD	2.53	0.49
2:G:3005:LEU:HD12	2:G:3008:GLN:NE2	2.27	0.49
2:B:418:LEU:HD13	2:B:493:ARG:HB3	1.93	0.49
2:B:3005:LEU:HD12	2:B:3008:GLN:NE2	2.27	0.49
2:B:3599:VAL:O	2:B:3603:LEU:HD23	2.13	0.49
2:B:3709:ALA:HB2	2:B:3782:MET:SD	2.52	0.49
2:I:1213:PHE:HD1	2:I:1216:ILE:HD12	1.77	0.49
2:I:2186:MET:O	2:I:2192:TYR:OH	2.22	0.49
2:I:3346:VAL:HG21	2:I:3414:ARG:HB3	1.94	0.49
2:I:3416:VAL:CG2	2:I:3517:MET:HE2	2.37	0.49
2:I:3594:ARG:NH2	2:I:3598:GLU:OE1	2.46	0.49
2:I:3971:GLY:O	2:I:3973:CYS:N	2.45	0.49
2:A:209:CYS:SG	2:A:334:MET:CE	3.01	0.49
2:A:3767:GLN:OE1	2:A:3809:ASN:ND2	2.46	0.49
2:G:1926:LEU:HD13	2:G:1939:MET:SD	2.53	0.49
2:G:2863:SER:OG	2:G:2925:GLU:OE2	2.30	0.49
2:G:2985:ARG:HG2	2:G:2987:GLU:H	1.78	0.49
2:B:835:ARG:NH1	2:B:1210:SER:O	2.46	0.49
2:I:227:MET:HE1	2:I:389:PHE:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3599:VAL:O	2:I:3603:LEU:HD23	2.13	0.49
2:I:3776:ALA:HB1	2:I:3816:MET:HG2	1.94	0.49
2:I:4735:GLU:O	2:I:4739:GLU:HG2	2.11	0.49
2:A:972:LEU:HD11	2:A:975:VAL:HG21	1.95	0.49
2:A:3158:LEU:HD23	2:A:3159:ASP:H	1.77	0.49
2:G:183:SER:O	2:G:183:SER:OG	2.28	0.49
2:G:2469:ILE:CB	2:G:2502:MET:CE	2.89	0.49
2:G:3327:LEU:HD21	2:G:3364:ARG:HH12	1.75	0.49
2:G:3851:ASN:OD1	2:G:3946:GLN:NE2	2.46	0.49
2:G:3955:MET:HE1	2:G:4016:LEU:HD13	1.93	0.49
2:G:4072:VAL:HG13	2:G:4125:PHE:HD2	1.77	0.49
2:G:4251:ILE:HG13	2:G:4252:SER:N	2.28	0.49
2:B:552:ASP:O	2:B:554:LEU:HD12	2.13	0.49
2:B:919:ASN:HA	2:B:922:LEU:HD13	1.95	0.49
2:B:2641:LEU:HD12	2:B:2698:MET:HB3	1.93	0.49
2:B:3327:LEU:CD1	2:B:3368:ARG:NH2	2.71	0.49
2:B:3851:ASN:OD1	2:B:3946:GLN:NE2	2.46	0.49
2:B:4885:PHE:O	2:B:4889:VAL:HG22	2.13	0.49
2:I:980:ALA:HB1	2:I:1055:PRO:HG3	1.94	0.49
2:I:4586:PRO:HG3	2:I:4629:TYR:CE2	2.48	0.49
2:A:876:GLU:HA	2:A:879:HIS:HD1	1.76	0.49
2:G:972:LEU:HD11	2:G:975:VAL:HG21	1.95	0.49
2:G:1076:ARG:NH2	2:G:1655:GLU:OE1	2.41	0.49
2:G:1455:PRO:HB3	2:G:1549:PHE:HE2	1.78	0.49
2:G:3194:LEU:HD21	2:G:3276:MET:HB2	1.94	0.49
2:G:3524:MET:SD	2:G:3595:ARG:HG3	2.53	0.49
2:G:3768:SER:O	2:G:3772:THR:OG1	2.21	0.49
2:B:209:CYS:SG	2:B:334:MET:HE1	2.52	0.49
2:B:316:PHE:CE1	2:B:348:VAL:HG22	2.48	0.49
2:B:1076:ARG:NH2	2:B:1655:GLU:OE1	2.41	0.49
2:B:1455:PRO:HB3	2:B:1549:PHE:HE2	1.78	0.49
2:B:2500:ALA:N	2:B:2553:TYR:CE1	2.72	0.49
2:B:2595:LEU:HD22	2:B:2599:GLN:NE2	2.27	0.49
2:B:3037:GLU:HB3	2:B:3088:VAL:HG21	1.94	0.49
2:B:3050:VAL:O	2:B:3050:VAL:CG1	2.61	0.49
2:I:209:CYS:SG	2:I:334:MET:CE	3.01	0.49
2:I:1186:ASP:OD1	2:I:1186:ASP:N	2.45	0.49
2:A:316:PHE:CE1	2:A:348:VAL:HG22	2.48	0.49
2:A:919:ASN:HA	2:A:922:LEU:HD13	1.95	0.49
2:A:3050:VAL:O	2:A:3050:VAL:CG1	2.61	0.49
2:A:3194:LEU:HD21	2:A:3276:MET:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4233:LEU:HD11	2:A:4679:ARG:HH22	1.77	0.49
2:A:4885:PHE:O	2:A:4889:VAL:HG22	2.13	0.49
1:J:31:GLN:NE2	1:J:96:THR:HB	2.27	0.49
2:G:209:CYS:SG	2:G:334:MET:HE1	2.53	0.49
2:G:3445:TRP:CH2	2:G:3452:LYS:HA	2.48	0.49
2:G:4721:LYS:NZ	2:G:4741:LEU:O	2.44	0.49
2:B:1676:LEU:HD22	2:B:2167:ILE:HD12	1.94	0.49
2:B:3145:GLN:O	2:B:3149:GLN:HG2	2.13	0.49
2:B:3187:ARG:HH12	2:B:3267:PRO:CB	2.26	0.49
2:B:4045:VAL:HG12	2:B:4159:ARG:CZ	2.40	0.49
2:B:4251:ILE:HG13	2:B:4252:SER:N	2.28	0.49
2:I:158:SER:O	2:I:161:GLU:HG2	2.13	0.49
2:I:651:GLY:N	2:I:658:GLN:OE1	2.46	0.49
2:I:730:VAL:HG12	2:I:1476:MET:SD	2.53	0.49
2:I:4885:PHE:O	2:I:4889:VAL:HG22	2.13	0.49
1:F:31:GLN:NE2	1:F:96:THR:HG21	2.28	0.48
2:A:1455:PRO:HB3	2:A:1549:PHE:HE2	1.78	0.48
2:A:1926:LEU:HD13	2:A:1939:MET:SD	2.53	0.48
2:A:3034:LYS:O	2:A:3038:MET:HG3	2.13	0.48
2:G:209:CYS:SG	2:G:334:MET:CE	3.01	0.48
2:G:878:ILE:HD11	2:G:925:SER:HB2	1.94	0.48
2:G:2644:LEU:O	2:G:2648:TYR:CD2	2.66	0.48
2:G:2967:MET:HE3	2:G:3045:LYS:CE	2.38	0.48
2:G:4045:VAL:HG12	2:G:4159:ARG:CZ	2.40	0.48
2:B:2630:VAL:HG13	2:B:2682:ILE:HD11	1.94	0.48
2:B:3194:LEU:HD21	2:B:3276:MET:HB2	1.94	0.48
2:B:3715:LYS:HD2	2:B:3715:LYS:C	2.34	0.48
2:B:3767:GLN:OE1	2:B:3809:ASN:ND2	2.46	0.48
2:I:932:LEU:HD22	2:I:984:LEU:HD21	1.94	0.48
2:I:2323:TRP:CZ3	2:I:2325:PRO:HB3	2.48	0.48
2:I:2644:LEU:O	2:I:2648:TYR:CD2	2.66	0.48
2:A:158:SER:O	2:A:161:GLU:HG2	2.13	0.48
2:A:940:GLY:H	2:A:1052:ASN:H	1.59	0.48
2:A:2323:TRP:CZ3	2:A:2325:PRO:HB3	2.48	0.48
2:A:3715:LYS:HD2	2:A:3715:LYS:C	2.34	0.48
2:A:4104:THR:CG2	2:A:4107:GLU:HG2	2.43	0.48
2:A:4582:VAL:HG12	2:B:4877:ASP:O	2.13	0.48
2:G:767:VAL:HG12	2:G:769:GLU:HG3	1.96	0.48
2:G:3715:LYS:HD2	2:G:3715:LYS:C	2.34	0.48
2:B:209:CYS:SG	2:B:334:MET:CE	3.01	0.48
2:B:215:THR:HA	2:B:274:LEU:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2644:LEU:O	2:B:2648:TYR:CD2	2.66	0.48
2:B:2929:PHE:HB2	2:B:2932:MET:SD	2.53	0.48
2:B:3034:LYS:O	2:B:3038:MET:HG3	2.13	0.48
2:B:3445:TRP:CH2	2:B:3452:LYS:HA	2.48	0.48
2:B:3701:LEU:HD21	2:B:3725:TYR:CD1	2.49	0.48
2:B:4233:LEU:HD11	2:B:4679:ARG:HH22	1.77	0.48
2:I:1455:PRO:HB3	2:I:1549:PHE:HE2	1.78	0.48
2:I:2802:LYS:O	2:I:2806:ARG:HB2	2.13	0.48
2:I:3037:GLU:HB3	2:I:3088:VAL:HG21	1.93	0.48
2:I:3201:MET:HE3	2:I:3205:PHE:CD1	2.43	0.48
2:I:3445:TRP:CH2	2:I:3452:LYS:HA	2.49	0.48
2:A:227:MET:HE1	2:A:389:PHE:HD2	1.77	0.48
2:A:842:PRO:O	2:A:1197:GLY:N	2.32	0.48
2:A:2624:ARG:HG3	2:A:2910:THR:HG22	1.96	0.48
2:A:2686:LEU:HG	2:A:2696:TYR:HE2	1.76	0.48
2:A:2862:LEU:HB2	2:A:2929:PHE:CE2	2.48	0.48
2:A:3524:MET:SD	2:A:3595:ARG:HG3	2.53	0.48
2:A:3776:ALA:HB1	2:A:3816:MET:HG2	1.94	0.48
2:G:158:SER:O	2:G:161:GLU:HG2	2.13	0.48
2:G:2765:LYS:HA	2:G:2860:PRO:HD2	1.95	0.48
2:G:3050:VAL:O	2:G:3050:VAL:CG1	2.61	0.48
2:G:3081:MET:HE1	2:G:3089:LYS:HA	1.95	0.48
2:G:3599:VAL:O	2:G:3603:LEU:HD23	2.13	0.48
2:G:3836:MET:CE	2:G:3885:PHE:CZ	2.86	0.48
2:B:893:TYR:HB3	2:B:960:MET:HE1	1.94	0.48
2:B:972:LEU:HD11	2:B:975:VAL:HG21	1.95	0.48
2:B:1653:LEU:O	2:B:1660:GLN:NE2	2.38	0.48
2:B:2802:LYS:O	2:B:2806:ARG:HB2	2.13	0.48
2:B:3368:ARG:NH2	2:B:3404:ASP:OD2	2.46	0.48
2:B:3594:ARG:NH2	2:B:3598:GLU:OE1	2.46	0.48
2:I:640:TYR:HD2	2:I:1634:LEU:HB3	1.78	0.48
2:I:2765:LYS:HA	2:I:2860:PRO:HD2	1.96	0.48
2:I:3005:LEU:HD12	2:I:3008:GLN:NE2	2.27	0.48
2:I:3145:GLN:O	2:I:3149:GLN:HG2	2.13	0.48
2:I:3767:GLN:OE1	2:I:3809:ASN:ND2	2.46	0.48
2:A:730:VAL:HG12	2:A:1476:MET:SD	2.53	0.48
2:A:835:ARG:NH1	2:A:1210:SER:O	2.46	0.48
2:A:2742:THR:HG23	2:A:2743:LEU:HG	1.95	0.48
2:A:3599:VAL:O	2:A:3603:LEU:HD23	2.13	0.48
2:A:3836:MET:CE	2:A:3885:PHE:CZ	2.86	0.48
1:J:31:GLN:NE2	1:J:96:THR:HG21	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:31:GLN:NE2	1:O:96:THR:HG21	2.28	0.48
2:G:730:VAL:HG12	2:G:1476:MET:SD	2.53	0.48
2:G:2469:ILE:CG2	2:G:2502:MET:SD	3.02	0.48
2:G:2624:ARG:HG3	2:G:2910:THR:HG22	1.96	0.48
2:G:4104:THR:CG2	2:G:4107:GLU:HG2	2.43	0.48
2:G:4885:PHE:O	2:G:4889:VAL:HG22	2.13	0.48
2:B:2742:THR:HG23	2:B:2743:LEU:HG	1.96	0.48
2:B:2862:LEU:HB2	2:B:2929:PHE:CE2	2.48	0.48
2:B:3247:ASP:OD1	2:B:3248:ARG:N	2.47	0.48
2:I:317:ARG:NH1	2:I:323:LEU:H	2.12	0.48
2:I:3050:VAL:O	2:I:3050:VAL:CG1	2.61	0.48
2:I:3524:MET:SD	2:I:3595:ARG:HG3	2.53	0.48
2:A:878:ILE:HD11	2:A:925:SER:HB2	1.94	0.48
2:A:2765:LYS:HA	2:A:2860:PRO:HD2	1.96	0.48
2:A:3445:TRP:CH2	2:A:3452:LYS:HA	2.48	0.48
2:A:3851:ASN:OD1	2:A:3946:GLN:NE2	2.46	0.48
2:G:3145:GLN:O	2:G:3149:GLN:HG2	2.13	0.48
2:G:4586:PRO:HG3	2:G:4629:TYR:CE2	2.48	0.48
2:B:24:CYS:SG	2:B:200:TRP:CE3	3.04	0.48
2:B:730:VAL:HG12	2:B:1476:MET:SD	2.53	0.48
2:B:1105:ALA:HB1	2:B:1109:LEU:HD22	1.95	0.48
2:B:3971:GLY:O	2:B:3973:CYS:N	2.45	0.48
2:B:4104:THR:CG2	2:B:4107:GLU:HG2	2.43	0.48
2:B:4586:PRO:HG3	2:B:4629:TYR:CE2	2.48	0.48
2:I:878:ILE:HD11	2:I:925:SER:HB2	1.94	0.48
2:I:2624:ARG:HG3	2:I:2910:THR:HG22	1.96	0.48
2:I:2656:CYS:SG	2:I:2657:LEU:N	2.87	0.48
2:I:3036:LYS:NZ	2:I:3076:ASP:OD1	2.33	0.48
2:A:2321:ILE:HG13	2:A:2322:GLY:N	2.21	0.48
2:A:2802:LYS:O	2:A:2806:ARG:HB2	2.13	0.48
2:A:3145:GLN:O	2:A:3149:GLN:HG2	2.13	0.48
2:A:4586:PRO:HG3	2:A:4629:TYR:CE2	2.48	0.48
1:J:31:GLN:HA	1:J:98:ILE:HD13	1.96	0.48
2:G:215:THR:HA	2:G:274:LEU:CD1	2.43	0.48
2:G:940:GLY:O	2:G:1051:TYR:HA	2.14	0.48
2:G:2742:THR:HG23	2:G:2743:LEU:HG	1.96	0.48
2:G:2894:LEU:CB	2:G:2897:LYS:HZ1	2.26	0.48
2:G:3416:VAL:CG2	2:G:3517:MET:HE1	2.43	0.48
2:G:4722:ARG:HE	2:G:4722:ARG:HB2	1.45	0.48
2:B:2323:TRP:CZ3	2:B:2325:PRO:HB3	2.48	0.48
2:B:2964:LEU:CD2	2:B:3042:LEU:HD12	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3718:GLU:CD	2:B:3723:MET:HE3	2.34	0.48
2:I:215:THR:HA	2:I:274:LEU:CD1	2.44	0.48
2:I:316:PHE:CE1	2:I:348:VAL:HG22	2.48	0.48
2:I:4251:ILE:HG13	2:I:4252:SER:N	2.28	0.48
2:A:877:ASN:ND2	2:A:970:LEU:HB3	2.27	0.48
2:G:1492:CYS:SG	2:G:1494:MET:HG3	2.54	0.48
2:G:2737:PRO:HG2	2:G:2888:ARG:HH12	1.79	0.48
2:G:4251:ILE:HG21	2:G:4550:LYS:HA	1.96	0.48
2:B:932:LEU:HD22	2:B:984:LEU:HD21	1.94	0.48
2:B:1926:LEU:HD13	2:B:1939:MET:SD	2.53	0.48
2:B:2469:ILE:CG2	2:B:2502:MET:SD	3.02	0.48
2:B:2765:LYS:HA	2:B:2860:PRO:HD2	1.96	0.48
2:I:1105:ALA:HB1	2:I:1109:LEU:HD22	1.95	0.48
2:I:1926:LEU:HD13	2:I:1939:MET:SD	2.53	0.48
2:I:3718:GLU:CD	2:I:3723:MET:HE1	2.33	0.48
2:I:4221:VAL:HG23	2:I:4230:LYS:HE3	1.96	0.48
2:A:3218:VAL:HG23	2:A:3219:TYR:CD1	2.49	0.48
2:A:3594:ARG:NH2	2:A:3598:GLU:OE1	2.46	0.48
2:A:3701:LEU:HD21	2:A:3725:TYR:CD1	2.49	0.48
2:G:316:PHE:CE1	2:G:348:VAL:HG22	2.48	0.48
2:G:3701:LEU:HD21	2:G:3725:TYR:CD1	2.49	0.48
2:B:767:VAL:HG12	2:B:769:GLU:HG3	1.95	0.48
2:B:1087:ARG:HG2	2:B:1154:ASP:HA	1.96	0.48
2:B:2624:ARG:HG3	2:B:2910:THR:HG22	1.96	0.48
2:B:3776:ALA:HB1	2:B:3816:MET:HG2	1.94	0.48
2:I:183:SER:O	2:I:183:SER:OG	2.28	0.48
2:I:919:ASN:HA	2:I:922:LEU:HD13	1.95	0.48
2:I:2470:ILE:HD13	2:I:2502:MET:HG3	1.96	0.48
2:I:2985:ARG:HG2	2:I:2987:GLU:H	1.78	0.48
2:A:4045:VAL:HG12	2:A:4159:ARG:CD	2.43	0.48
2:G:266:ARG:NH1	2:G:330:ASP:HB2	2.29	0.48
2:G:932:LEU:HD22	2:G:984:LEU:HD21	1.94	0.48
2:B:125:ARG:NH2	2:B:190:GLN:OE1	2.47	0.48
2:B:317:ARG:NH1	2:B:323:LEU:H	2.12	0.48
2:B:2031:LEU:HD11	2:B:3657:TYR:HE1	1.79	0.48
2:B:2475:GLN:HG3	2:B:2488:PRO:HG2	1.95	0.48
2:B:2540:THR:HG1	2:B:2541:PHE:HD2	1.60	0.48
2:B:3524:MET:SD	2:B:3595:ARG:HG3	2.53	0.48
2:I:3206:LEU:HD21	2:I:3276:MET:HE1	1.96	0.48
2:A:3080:VAL:HG12	2:A:3081:MET:HE2	1.93	0.48
2:G:183:SER:O	2:G:189:LEU:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2323:TRP:CZ3	2:G:2325:PRO:HB3	2.48	0.48
2:G:3140:LEU:HG	2:G:3144:PHE:CE1	2.49	0.48
2:G:3776:ALA:HB1	2:G:3816:MET:HG2	1.94	0.48
2:B:227:MET:HE3	2:B:389:PHE:CD2	2.48	0.48
2:I:552:ASP:O	2:I:554:LEU:HD12	2.13	0.48
2:I:3403:ARG:HA	2:I:3458:PHE:CE1	2.49	0.48
2:I:4104:THR:CG2	2:I:4107:GLU:HG2	2.43	0.48
2:A:767:VAL:HG12	2:A:769:GLU:HG3	1.95	0.47
2:A:894:GLY:H	2:A:903:LEU:HD13	1.79	0.47
2:A:2093:SER:HB3	2:A:2096:GLU:HG3	1.96	0.47
2:A:2380:ILE:O	2:A:2384:ILE:HG12	2.14	0.47
2:A:3247:ASP:OD1	2:A:3248:ARG:N	2.47	0.47
2:A:4137:ARG:NH1	2:A:4199:GLU:OE2	2.47	0.47
2:G:125:ARG:NH2	2:G:190:GLN:OE1	2.47	0.47
2:G:552:ASP:O	2:G:554:LEU:HD12	2.13	0.47
2:G:3100:SER:HB3	2:G:3167:ARG:HH11	1.79	0.47
2:G:3971:GLY:O	2:G:3973:CYS:N	2.45	0.47
2:B:158:SER:O	2:B:161:GLU:HG2	2.13	0.47
2:B:894:GLY:H	2:B:903:LEU:HD13	1.79	0.47
2:B:3346:VAL:HG21	2:B:3414:ARG:HB3	1.94	0.47
2:I:835:ARG:NH1	2:I:1210:SER:O	2.46	0.47
2:I:1733:GLU:HG2	2:I:2201:LEU:HD23	1.96	0.47
2:I:3034:LYS:O	2:I:3038:MET:HG3	2.14	0.47
2:I:3442:PHE:O	2:I:3445:TRP:HB3	2.14	0.47
2:I:3715:LYS:HD2	2:I:3715:LYS:C	2.34	0.47
2:I:4251:ILE:HG21	2:I:4550:LYS:HA	1.96	0.47
2:A:215:THR:HA	2:A:274:LEU:CD1	2.43	0.47
2:A:1733:GLU:HG2	2:A:2201:LEU:HD23	1.96	0.47
2:A:1808:ARG:HG3	2:A:1854:PHE:CE1	2.50	0.47
2:A:3081:MET:HE1	2:A:3089:LYS:HA	1.97	0.47
2:A:3442:PHE:O	2:A:3445:TRP:HB3	2.14	0.47
2:A:3987:ASP:OD2	2:B:162:LYS:NZ	2.34	0.47
2:A:4072:VAL:HG13	2:A:4125:PHE:HD2	1.76	0.47
2:A:4251:ILE:HD11	2:A:4557:ARG:HH12	1.79	0.47
1:H:31:GLN:NE2	1:H:96:THR:HG21	2.28	0.47
2:G:1808:ARG:HG3	2:G:1854:PHE:CE1	2.49	0.47
2:G:2093:SER:HB3	2:G:2096:GLU:HG3	1.96	0.47
2:G:2380:ILE:O	2:G:2384:ILE:HG12	2.14	0.47
2:G:2656:CYS:SG	2:G:2657:LEU:N	2.87	0.47
2:G:3247:ASP:OD1	2:G:3248:ARG:N	2.47	0.47
2:B:640:TYR:HD2	2:B:1634:LEU:HB3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2735:PHE:CZ	2:B:2737:PRO:HG3	2.50	0.47
2:B:2754:PHE:HA	2:B:2758:PHE:CB	2.44	0.47
2:B:3442:PHE:O	2:B:3445:TRP:HB3	2.14	0.47
2:I:183:SER:O	2:I:189:LEU:HA	2.14	0.47
2:I:580:GLU:HG3	2:I:620:LEU:HD22	1.97	0.47
2:I:767:VAL:HG12	2:I:769:GLU:HG3	1.96	0.47
2:I:972:LEU:HD11	2:I:975:VAL:HG21	1.95	0.47
2:I:987:ARG:HG2	2:I:987:ARG:HH11	1.79	0.47
2:I:2742:THR:HG23	2:I:2743:LEU:HG	1.96	0.47
2:I:3376:GLU:OE2	2:I:3450:ASN:ND2	2.40	0.47
2:I:3416:VAL:HG22	2:I:3517:MET:CE	2.45	0.47
2:I:3433:GLU:O	2:I:3437:MET:HG3	2.15	0.47
2:A:552:ASP:O	2:A:554:LEU:HD12	2.13	0.47
2:A:3100:SER:HB3	2:A:3167:ARG:HH11	1.79	0.47
2:A:4221:VAL:HG23	2:A:4230:LYS:HE3	1.96	0.47
2:A:4680:LYS:HE2	2:A:4680:LYS:HB2	1.66	0.47
1:O:7:ILE:HG23	2:B:719:LEU:HD11	1.94	0.47
2:G:873:LYS:HE2	2:G:970:LEU:HD22	1.97	0.47
2:G:1087:ARG:HG2	2:G:1154:ASP:HA	1.96	0.47
2:G:2470:ILE:HD13	2:G:2502:MET:HG3	1.96	0.47
2:G:2650:ARG:O	2:G:2661:TRP:HZ2	1.98	0.47
2:G:2862:LEU:HB2	2:G:2929:PHE:CE2	2.48	0.47
2:B:266:ARG:NH1	2:B:330:ASP:HB2	2.29	0.47
2:B:463:GLU:OE1	2:B:467:LYS:HE2	2.15	0.47
2:B:2273:LEU:HD11	2:B:2334:PHE:HB2	1.95	0.47
2:B:2319:PRO:HD3	2:B:2394:GLY:HA2	1.96	0.47
2:B:2465:ASP:O	2:B:2469:ILE:HG12	2.13	0.47
2:B:2656:CYS:SG	2:B:2657:LEU:N	2.87	0.47
2:B:3206:LEU:HD21	2:B:3276:MET:HE1	1.96	0.47
2:I:2469:ILE:CG2	2:I:2502:MET:SD	3.02	0.47
2:I:2475:GLN:HG3	2:I:2488:PRO:HG2	1.95	0.47
2:I:2595:LEU:HD22	2:I:2599:GLN:NE2	2.27	0.47
2:I:2735:PHE:CZ	2:I:2737:PRO:HG3	2.49	0.47
2:I:2929:PHE:HB2	2:I:2932:MET:SD	2.53	0.47
2:A:516:LYS:HA	2:A:519:VAL:HG12	1.96	0.47
2:A:940:GLY:O	2:A:1051:TYR:HA	2.14	0.47
2:A:1087:ARG:HG2	2:A:1154:ASP:HA	1.96	0.47
2:A:2465:ASP:O	2:A:2469:ILE:HG12	2.13	0.47
2:G:919:ASN:HA	2:G:922:LEU:HD13	1.95	0.47
2:G:2465:ASP:O	2:G:2469:ILE:HG12	2.13	0.47
2:G:2624:ARG:HH21	2:G:2906:VAL:HG21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3034:LYS:O	2:G:3038:MET:HG3	2.13	0.47
2:G:3403:ARG:HA	2:G:3458:PHE:CE1	2.49	0.47
2:B:873:LYS:HE2	2:B:970:LEU:HD22	1.97	0.47
2:B:4694:ASP:HA	2:B:4700:GLN:HE21	1.79	0.47
2:I:2031:LEU:HD11	2:I:3657:TYR:HE1	1.79	0.47
2:I:2862:LEU:HB2	2:I:2929:PHE:CE2	2.48	0.47
2:I:3140:LEU:HG	2:I:3144:PHE:CE1	2.49	0.47
2:A:710:ASP:N	2:A:710:ASP:OD1	2.47	0.47
2:A:873:LYS:HE2	2:A:970:LEU:HD22	1.97	0.47
2:A:1492:CYS:SG	2:A:1494:MET:HG3	2.54	0.47
2:A:1976:ARG:NH1	2:A:1997:GLU:OE1	2.26	0.47
2:A:2735:PHE:CZ	2:A:2737:PRO:HG3	2.49	0.47
2:A:4045:VAL:HG12	2:A:4159:ARG:CZ	2.40	0.47
1:O:31:GLN:HA	1:O:98:ILE:HD13	1.96	0.47
2:G:227:MET:CE	2:G:389:PHE:CD2	2.97	0.47
2:G:1829:PRO:O	2:G:1832:GLY:N	2.44	0.47
2:G:2273:LEU:HD11	2:G:2334:PHE:HB2	1.95	0.47
2:G:2735:PHE:CZ	2:G:2737:PRO:HG3	2.50	0.47
2:G:2894:LEU:HG	2:G:2897:LYS:HZ1	1.80	0.47
2:G:3201:MET:HE3	2:G:3205:PHE:CD1	2.43	0.47
2:G:3218:VAL:HG23	2:G:3219:TYR:CD1	2.49	0.47
2:B:1492:CYS:SG	2:B:1494:MET:HG3	2.54	0.47
2:B:3140:LEU:HG	2:B:3144:PHE:CE1	2.49	0.47
2:B:4104:THR:HG22	2:B:4107:GLU:CG	2.45	0.47
2:I:227:MET:CE	2:I:389:PHE:CD2	2.97	0.47
2:I:940:GLY:O	2:I:1051:TYR:HA	2.14	0.47
2:I:1492:CYS:SG	2:I:1494:MET:HG3	2.54	0.47
2:I:2307:LEU:HD11	2:I:2362:GLU:HG3	1.97	0.47
2:I:2319:PRO:HD3	2:I:2394:GLY:HA2	1.96	0.47
2:I:2380:ILE:O	2:I:2384:ILE:HG12	2.14	0.47
2:I:3420:ARG:HG3	2:I:3520:ILE:HD11	1.96	0.47
2:I:3771:HIS:O	2:I:3815:LYS:NZ	2.38	0.47
2:A:266:ARG:NH1	2:A:330:ASP:HB2	2.29	0.47
2:A:2562:ILE:HG21	2:A:2582:MET:CE	2.44	0.47
2:A:2656:CYS:SG	2:A:2657:LEU:N	2.87	0.47
2:A:3847:PHE:HE2	2:A:3936:TYR:HE2	1.63	0.47
2:A:4130:ASN:HA	2:A:4133:GLN:HB2	1.96	0.47
2:A:4251:ILE:HG13	2:A:4252:SER:N	2.28	0.47
2:G:2471:SER:HB2	2:G:2524:VAL:HG22	1.97	0.47
2:G:3037:GLU:HG3	2:G:3080:VAL:HG22	1.97	0.47
2:B:183:SER:O	2:B:189:LEU:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:516:LYS:HA	2:B:519:VAL:HG12	1.96	0.47
2:B:940:GLY:O	2:B:1051:TYR:HA	2.14	0.47
2:B:987:ARG:HH11	2:B:987:ARG:HG2	1.80	0.47
2:B:2650:ARG:O	2:B:2661:TRP:HZ2	1.98	0.47
2:I:20:VAL:HG12	2:I:204:PRO:HA	1.97	0.47
2:I:125:ARG:NH2	2:I:190:GLN:OE1	2.47	0.47
2:I:2093:SER:HB3	2:I:2096:GLU:HG3	1.96	0.47
2:I:2465:ASP:O	2:I:2469:ILE:HG12	2.13	0.47
2:I:2469:ILE:CB	2:I:2502:MET:CE	2.89	0.47
2:I:2624:ARG:HH21	2:I:2906:VAL:HG21	1.80	0.47
2:I:4694:ASP:HA	2:I:4700:GLN:HE21	1.79	0.47
2:A:580:GLU:HG3	2:A:620:LEU:HD22	1.97	0.47
2:A:974:HIS:HB2	2:A:976:ARG:HH22	1.80	0.47
2:A:2470:ILE:HD13	2:A:2502:MET:HG3	1.96	0.47
2:A:2650:ARG:O	2:A:2661:TRP:HZ2	1.98	0.47
2:A:2737:PRO:HG2	2:A:2888:ARG:HH12	1.79	0.47
2:A:2894:LEU:O	2:A:2897:LYS:NZ	2.48	0.47
2:A:2904:LEU:HD23	2:A:2904:LEU:H	1.80	0.47
2:A:3140:LEU:HG	2:A:3144:PHE:CE1	2.49	0.47
2:A:3187:ARG:HH12	2:A:3267:PRO:CB	2.26	0.47
2:A:3368:ARG:NH2	2:A:3404:ASP:OD2	2.46	0.47
2:A:3403:ARG:HA	2:A:3458:PHE:CE1	2.49	0.47
2:A:3530:GLN:OE1	2:A:3534:MET:CE	2.63	0.47
2:G:20:VAL:HG12	2:G:204:PRO:HA	1.97	0.47
2:G:463:GLU:OE1	2:G:467:LYS:HE2	2.15	0.47
2:G:640:TYR:HD2	2:G:1634:LEU:HB3	1.79	0.47
2:G:987:ARG:HG2	2:G:987:ARG:HH11	1.79	0.47
2:G:2268:GLN:HG3	2:G:2269:GLY:N	2.30	0.47
2:G:3433:GLU:O	2:G:3437:MET:HG3	2.15	0.47
2:G:4683:PHE:CE2	2:G:5017:ARG:HG3	2.50	0.47
2:B:183:SER:O	2:B:183:SER:OG	2.28	0.47
2:B:1261:ASP:OD1	2:B:1262:GLY:N	2.39	0.47
2:B:1748:PHE:HE1	2:B:1760:HIS:CD2	2.32	0.47
2:B:2093:SER:HB3	2:B:2096:GLU:HG3	1.96	0.47
2:B:2521:VAL:HA	2:B:2524:VAL:HG12	1.97	0.47
2:B:2679:PHE:HB2	2:B:2706:ILE:HG21	1.97	0.47
2:B:3037:GLU:HG3	2:B:3080:VAL:HG22	1.97	0.47
2:B:3403:ARG:HA	2:B:3458:PHE:CE1	2.49	0.47
2:B:3433:GLU:O	2:B:3437:MET:HG3	2.15	0.47
2:B:3530:GLN:OE1	2:B:3534:MET:CE	2.63	0.47
2:B:4077:PHE:CE1	2:B:4097:MET:CE	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4130:ASN:HA	2:B:4133:GLN:HB2	1.96	0.47
2:B:4251:ILE:HG21	2:B:4550:LYS:HA	1.96	0.47
2:B:4683:PHE:CE2	2:B:5017:ARG:HG3	2.50	0.47
2:I:140:ASP:N	2:I:140:ASP:OD1	2.47	0.47
2:I:359:TYR:HB2	2:I:374:LYS:HB3	1.97	0.47
2:I:752:VAL:O	2:I:753:PRO:C	2.40	0.47
2:I:873:LYS:HE2	2:I:970:LEU:HD22	1.97	0.47
2:I:894:GLY:H	2:I:903:LEU:HD13	1.79	0.47
2:I:1087:ARG:HG2	2:I:1154:ASP:HA	1.96	0.47
2:I:2471:SER:HB2	2:I:2524:VAL:HG22	1.97	0.47
2:I:2650:ARG:O	2:I:2661:TRP:HZ2	1.98	0.47
2:I:2904:LEU:HD23	2:I:2904:LEU:H	1.80	0.47
2:I:3080:VAL:CG1	2:I:3081:MET:HE3	2.41	0.47
2:I:3218:VAL:HG23	2:I:3219:TYR:CD1	2.49	0.47
2:I:3247:ASP:OD1	2:I:3248:ARG:N	2.47	0.47
2:I:3445:TRP:CZ3	2:I:3452:LYS:HA	2.50	0.47
2:I:3701:LEU:HD21	2:I:3725:TYR:CD1	2.49	0.47
2:I:4137:ARG:NH1	2:I:4199:GLU:OE2	2.47	0.47
2:I:4251:ILE:HD11	2:I:4557:ARG:HH12	1.79	0.47
2:I:4683:PHE:CE2	2:I:5017:ARG:HG3	2.50	0.47
1:F:7:ILE:HG23	2:A:719:LEU:HD11	1.96	0.47
2:A:140:ASP:N	2:A:140:ASP:OD1	2.47	0.47
2:A:317:ARG:NH1	2:A:323:LEU:H	2.12	0.47
2:A:2469:ILE:CG2	2:A:2502:MET:SD	3.02	0.47
2:A:3037:GLU:HG3	2:A:3080:VAL:HG22	1.97	0.47
2:A:4104:THR:HG22	2:A:4107:GLU:CG	2.45	0.47
2:A:4683:PHE:CE2	2:A:5017:ARG:HG3	2.50	0.47
2:G:894:GLY:H	2:G:903:LEU:HD13	1.79	0.47
2:G:2562:ILE:HG21	2:G:2582:MET:CE	2.44	0.47
2:G:2678:LEU:O	2:G:2682:ILE:HG12	2.15	0.47
2:G:2816:MET:HA	2:G:2819:TRP:CE3	2.50	0.47
2:G:2819:TRP:CH2	2:G:2881:ASN:HB2	2.50	0.47
2:G:2959:PHE:CD2	2:G:2963:LEU:HD11	2.49	0.47
2:B:2380:ILE:O	2:B:2384:ILE:HG12	2.14	0.47
2:B:2470:ILE:HD13	2:B:2502:MET:HG3	1.96	0.47
2:B:2819:TRP:CH2	2:B:2881:ASN:HB2	2.50	0.47
2:B:2959:PHE:CD2	2:B:2963:LEU:HD11	2.49	0.47
2:B:3218:VAL:HG23	2:B:3219:TYR:CD1	2.49	0.47
2:B:3420:ARG:HG3	2:B:3520:ILE:HD11	1.96	0.47
2:B:3934:TYR:HA	2:B:3999:MET:CE	2.45	0.47
2:B:4045:VAL:HG12	2:B:4159:ARG:CD	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:266:ARG:NH1	2:I:330:ASP:HB2	2.29	0.47
2:I:648:ILE:HG23	2:I:814:ALA:HB3	1.97	0.47
2:I:2521:VAL:HA	2:I:2524:VAL:HG12	1.97	0.47
2:I:2562:ILE:HG21	2:I:2582:MET:CE	2.44	0.47
2:I:2615:ARG:NH1	2:I:2618:MET:HE2	2.27	0.47
2:I:2737:PRO:HG2	2:I:2888:ARG:HH12	1.79	0.47
2:I:2963:LEU:HD22	2:I:3006:ILE:HD11	1.97	0.47
2:I:3100:SER:HB3	2:I:3167:ARG:HH11	1.79	0.47
2:A:227:MET:CE	2:A:389:PHE:CD2	2.97	0.47
2:A:1748:PHE:HE1	2:A:1760:HIS:CD2	2.32	0.47
2:A:2098:VAL:CG2	2:A:2101:MET:HE2	2.43	0.47
2:A:2754:PHE:HA	2:A:2758:PHE:CB	2.44	0.47
1:O:85:THR:CG2	1:O:86:GLY:N	2.78	0.47
2:G:317:ARG:NH1	2:G:323:LEU:H	2.12	0.47
2:G:580:GLU:HG3	2:G:620:LEU:HD22	1.97	0.47
2:B:1186:ASP:OD1	2:B:1186:ASP:N	2.44	0.47
2:B:2970:SER:O	2:B:2974:ILE:HG23	2.15	0.47
2:I:516:LYS:HA	2:I:519:VAL:HG12	1.96	0.47
2:I:4077:PHE:CE1	2:I:4097:MET:CE	2.98	0.47
2:A:320:LYS:HA	2:A:356:TRP:CH2	2.51	0.47
2:A:826:ILE:HG22	2:A:827:LYS:H	1.80	0.47
2:A:2273:LEU:HD11	2:A:2334:PHE:HB2	1.95	0.47
2:A:2678:LEU:O	2:A:2682:ILE:HG12	2.15	0.47
2:A:2816:MET:HA	2:A:2819:TRP:CE3	2.50	0.47
2:G:516:LYS:HA	2:G:519:VAL:HG12	1.96	0.47
2:G:648:ILE:HG23	2:G:814:ALA:HB3	1.97	0.47
2:G:3442:PHE:O	2:G:3445:TRP:HB3	2.14	0.47
2:G:4251:ILE:HD11	2:G:4557:ARG:HH12	1.79	0.47
2:B:140:ASP:OD1	2:B:140:ASP:N	2.47	0.47
2:B:815:VAL:HG11	2:B:821:LEU:HB2	1.97	0.47
2:B:2963:LEU:HD22	2:B:3006:ILE:HD11	1.97	0.47
2:I:24:CYS:SG	2:I:200:TRP:CE3	3.04	0.47
2:I:2273:LEU:HD11	2:I:2334:PHE:HB2	1.95	0.47
2:I:2678:LEU:O	2:I:2682:ILE:HG12	2.15	0.47
2:I:4791:TYR:HE1	2:I:4818:MET:HE3	1.52	0.47
2:A:125:ARG:NH2	2:A:190:GLN:OE1	2.47	0.46
2:A:2475:GLN:HG3	2:A:2488:PRO:HG2	1.95	0.46
2:A:2624:ARG:HH21	2:A:2906:VAL:HG21	1.80	0.46
2:A:4930:ALA:HB2	2:G:4933:GLN:HG2	1.97	0.46
2:G:72:SER:HA	2:G:106:ALA:O	2.16	0.46
2:G:974:HIS:HB2	2:G:976:ARG:HH22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:981:GLN:NE2	2:G:1053:ILE:HB	2.30	0.46
2:G:1028:ASP:OD1	2:G:1028:ASP:N	2.46	0.46
2:G:1087:ARG:HB3	2:G:1223:PHE:CD2	2.51	0.46
2:G:3368:ARG:NH2	2:G:3404:ASP:OD2	2.46	0.46
2:G:3989:VAL:HA	2:G:4023:MET:CE	2.45	0.46
2:G:4104:THR:HG22	2:G:4107:GLU:CG	2.45	0.46
2:G:4221:VAL:HG23	2:G:4230:LYS:HE3	1.96	0.46
2:G:4948:GLU:HA	2:G:4951:LYS:CG	2.45	0.46
2:B:224:HIS:O	2:B:226:HIS:N	2.49	0.46
2:B:580:GLU:HG3	2:B:620:LEU:HD22	1.97	0.46
2:B:1733:GLU:HG2	2:B:2201:LEU:HD23	1.96	0.46
2:B:1808:ARG:HG3	2:B:1854:PHE:CE1	2.50	0.46
2:B:2469:ILE:HG22	2:B:2502:MET:SD	2.55	0.46
2:B:2471:SER:HB2	2:B:2524:VAL:HG22	1.97	0.46
2:B:2624:ARG:HH21	2:B:2906:VAL:HG21	1.80	0.46
2:B:2737:PRO:HG2	2:B:2888:ARG:HH12	1.79	0.46
2:I:1808:ARG:HG3	2:I:1854:PHE:CE1	2.50	0.46
2:I:2816:MET:HA	2:I:2819:TRP:CE3	2.50	0.46
2:I:3037:GLU:HG3	2:I:3080:VAL:HG22	1.97	0.46
2:I:3992:PHE:HB3	2:I:3996:PHE:CE2	2.51	0.46
2:I:4049:VAL:O	2:I:4052:SER:OG	2.24	0.46
2:I:4104:THR:HG22	2:I:4107:GLU:CG	2.45	0.46
2:I:4130:ASN:HA	2:I:4133:GLN:HB2	1.96	0.46
2:A:640:TYR:HD2	2:A:1634:LEU:HB3	1.79	0.46
2:A:815:VAL:HG11	2:A:821:LEU:HB2	1.97	0.46
2:A:1037:ASP:O	2:A:1041:GLN:HG2	2.16	0.46
2:A:2132:GLY:O	2:A:2136:ARG:HG3	2.15	0.46
2:A:2521:VAL:HA	2:A:2524:VAL:HG12	1.97	0.46
2:A:2788:HIS:NE2	2:A:2790:MET:HG2	2.29	0.46
2:A:3989:VAL:HA	2:A:4023:MET:CE	2.45	0.46
2:G:651:GLY:N	2:G:658:GLN:OE1	2.46	0.46
2:G:2475:GLN:HG3	2:G:2488:PRO:HG2	1.95	0.46
2:G:2788:HIS:NE2	2:G:2790:MET:HG2	2.29	0.46
2:G:2904:LEU:H	2:G:2904:LEU:HD23	1.80	0.46
2:G:3206:LEU:HD21	2:G:3276:MET:HE2	1.96	0.46
2:G:3934:TYR:HA	2:G:3999:MET:CE	2.45	0.46
2:G:4694:ASP:HA	2:G:4700:GLN:HE21	1.79	0.46
2:B:651:GLY:N	2:B:658:GLN:OE1	2.46	0.46
2:B:1037:ASP:O	2:B:1041:GLN:HG2	2.16	0.46
2:B:1829:PRO:O	2:B:1832:GLY:N	2.44	0.46
2:B:3100:SER:HB3	2:B:3167:ARG:HH11	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3445:TRP:CZ3	2:B:3452:LYS:HA	2.50	0.46
2:B:3847:PHE:HE2	2:B:3936:TYR:HE2	1.63	0.46
2:B:3989:VAL:HA	2:B:4023:MET:CE	2.45	0.46
2:B:4137:ARG:NH1	2:B:4199:GLU:OE2	2.47	0.46
2:B:4251:ILE:HD11	2:B:4557:ARG:HH12	1.79	0.46
2:I:219:VAL:HG12	2:I:259:LEU:HD22	1.98	0.46
2:I:463:GLU:OE1	2:I:467:LYS:HE2	2.15	0.46
2:I:509:GLU:N	2:I:509:GLU:OE2	2.45	0.46
2:I:2750:LYS:NZ	2:I:2824:GLU:OE1	2.37	0.46
2:I:3989:VAL:HA	2:I:4023:MET:CE	2.45	0.46
1:F:24:VAL:HG12	1:F:103:LEU:HA	1.97	0.46
1:F:31:GLN:HA	1:F:98:ILE:HD13	1.96	0.46
2:A:1228:ILE:HG22	2:A:1827:ARG:NH1	2.27	0.46
2:A:1229:ASN:OD1	2:G:3570:ARG:NH1	2.48	0.46
2:A:2297:LYS:HE3	2:A:2301:TYR:HE2	1.81	0.46
2:A:2735:PHE:CE1	2:A:2737:PRO:HG3	2.51	0.46
2:A:2819:TRP:CH2	2:A:2881:ASN:HB2	2.50	0.46
2:A:3218:VAL:O	2:A:3222:LYS:HB2	2.16	0.46
1:J:24:VAL:HG12	1:J:103:LEU:HA	1.97	0.46
1:J:106:LEU:HD23	1:J:106:LEU:HA	1.83	0.46
2:G:884:LEU:HB2	2:G:969:PRO:HD3	1.97	0.46
2:G:2132:GLY:O	2:G:2136:ARG:HG3	2.15	0.46
2:G:2307:LEU:HD11	2:G:2362:GLU:HG3	1.97	0.46
2:G:2521:VAL:HA	2:G:2524:VAL:HG12	1.97	0.46
2:G:3445:TRP:CZ3	2:G:3452:LYS:HA	2.50	0.46
2:G:3836:MET:CE	2:G:3885:PHE:HE1	2.09	0.46
2:G:4045:VAL:HG12	2:G:4159:ARG:CD	2.43	0.46
2:B:359:TYR:HB2	2:B:374:LYS:HB3	1.97	0.46
2:B:884:LEU:HB2	2:B:969:PRO:HD3	1.97	0.46
2:B:1924:GLU:HA	2:B:1928:GLN:CD	2.36	0.46
2:B:2098:VAL:CG2	2:B:2101:MET:CE	2.79	0.46
2:B:2562:ILE:HG21	2:B:2582:MET:CE	2.44	0.46
2:B:2816:MET:HA	2:B:2819:TRP:CE3	2.50	0.46
2:B:3376:GLU:OE2	2:B:3450:ASN:ND2	2.40	0.46
2:I:2584:HIS:NE2	2:I:2625:ARG:HD2	2.31	0.46
2:I:3155:ASP:O	2:I:3158:LEU:HD22	2.15	0.46
2:I:3445:TRP:CH2	2:I:3452:LYS:CG	2.93	0.46
2:A:219:VAL:HG12	2:A:259:LEU:HD22	1.98	0.46
2:A:227:MET:HE3	2:A:389:PHE:HD2	1.81	0.46
2:A:2471:SER:HB2	2:A:2524:VAL:HG22	1.97	0.46
2:A:3420:ARG:HG3	2:A:3520:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3445:TRP:CZ3	2:A:3452:LYS:HA	2.50	0.46
2:A:4791:TYR:OH	2:A:4818:MET:HE1	2.14	0.46
2:G:320:LYS:HA	2:G:356:TRP:CH2	2.50	0.46
2:G:2587:TYR:OH	2:G:2591:ARG:NH2	2.36	0.46
2:G:3218:VAL:O	2:G:3222:LYS:HB2	2.16	0.46
2:G:3530:GLN:OE1	2:G:3534:MET:CE	2.63	0.46
2:B:219:VAL:HG12	2:B:259:LEU:HD22	1.98	0.46
2:B:648:ILE:HG23	2:B:814:ALA:HB3	1.97	0.46
2:B:826:ILE:HG22	2:B:827:LYS:H	1.80	0.46
2:B:2678:LEU:O	2:B:2682:ILE:HG12	2.15	0.46
2:B:4221:VAL:HG23	2:B:4230:LYS:HE3	1.96	0.46
2:I:320:LYS:HA	2:I:356:TRP:CH2	2.50	0.46
2:I:826:ILE:HG22	2:I:827:LYS:H	1.80	0.46
2:I:2458:ARG:HD3	2:I:2509:VAL:HG12	1.98	0.46
2:I:2679:PHE:HB2	2:I:2706:ILE:HG21	1.97	0.46
2:I:3100:SER:HB3	2:I:3167:ARG:NH1	2.31	0.46
2:I:4045:VAL:HG12	2:I:4159:ARG:CD	2.43	0.46
2:I:4948:GLU:HA	2:I:4951:LYS:CG	2.45	0.46
2:A:648:ILE:HG23	2:A:814:ALA:HB3	1.97	0.46
2:A:880:GLU:HB2	2:A:968:ALA:O	2.16	0.46
2:A:987:ARG:HG2	2:A:987:ARG:HH11	1.79	0.46
2:A:1087:ARG:HB3	2:A:1223:PHE:CD2	2.51	0.46
2:A:1261:ASP:OD1	2:A:1262:GLY:N	2.39	0.46
2:A:2676:ARG:NH1	2:A:2716:ASP:OD1	2.49	0.46
2:A:2970:SER:O	2:A:2974:ILE:HG23	2.15	0.46
2:A:3836:MET:HE3	2:A:3885:PHE:HZ	1.75	0.46
2:A:4722:ARG:HE	2:A:4722:ARG:HB2	1.45	0.46
2:G:1039:LEU:HD23	2:G:1039:LEU:N	2.31	0.46
2:G:1228:ILE:HG22	2:G:1827:ARG:NH1	2.27	0.46
2:G:2696:TYR:O	2:G:2700:MET:HE2	2.15	0.46
2:G:2735:PHE:CE1	2:G:2737:PRO:HG3	2.51	0.46
2:G:3100:SER:HB3	2:G:3167:ARG:NH1	2.31	0.46
2:B:2307:LEU:HD11	2:B:2362:GLU:HG3	1.97	0.46
2:B:2584:HIS:NE2	2:B:2625:ARG:HD2	2.31	0.46
2:B:3077:ALA:C	2:B:3079:THR:H	2.19	0.46
2:B:4823:LEU:HD11	2:I:4839:MET:CB	2.39	0.46
2:I:1087:ARG:HB3	2:I:1223:PHE:CD2	2.51	0.46
2:I:1924:GLU:HA	2:I:1928:GLN:CD	2.36	0.46
2:I:2132:GLY:O	2:I:2136:ARG:HG3	2.15	0.46
2:I:2819:TRP:CH2	2:I:2881:ASN:HB2	2.50	0.46
2:I:3218:VAL:O	2:I:3222:LYS:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3530:GLN:OE1	2:I:3534:MET:CE	2.63	0.46
1:F:85:THR:CG2	1:F:86:GLY:N	2.78	0.46
2:A:224:HIS:O	2:A:226:HIS:N	2.49	0.46
2:A:2237:CYS:O	2:A:2241:ARG:HG3	2.16	0.46
2:A:2476:ILE:HG23	2:A:2536:LEU:HD11	1.98	0.46
2:A:3155:ASP:O	2:A:3158:LEU:HD22	2.15	0.46
2:A:4753:HIS:CG	2:A:4754:ASN:N	2.84	0.46
1:J:85:THR:CG2	1:J:86:GLY:N	2.78	0.46
2:G:1733:GLU:HG2	2:G:2201:LEU:HD23	1.96	0.46
2:G:1924:GLU:HA	2:G:1928:GLN:CD	2.36	0.46
2:G:2894:LEU:O	2:G:2897:LYS:NZ	2.48	0.46
2:G:3847:PHE:HE2	2:G:3936:TYR:HE2	1.63	0.46
2:G:3850:GLN:HB2	2:G:3873:LYS:HZ1	1.80	0.46
2:G:3992:PHE:HB3	2:G:3996:PHE:CE2	2.51	0.46
2:B:320:LYS:HA	2:B:356:TRP:CH2	2.51	0.46
2:B:546:TRP:CE2	2:B:550:LYS:HE2	2.51	0.46
2:B:1595:LEU:HD12	2:B:1595:LEU:HA	1.78	0.46
2:B:2237:CYS:O	2:B:2241:ARG:HG3	2.16	0.46
2:B:2325:PRO:HG2	2:B:2421:ALA:HB1	1.97	0.46
2:B:2458:ARG:HD3	2:B:2509:VAL:HG12	1.98	0.46
2:B:3327:LEU:HD21	2:B:3364:ARG:HH12	1.75	0.46
2:B:3537:LYS:NZ	2:B:3603:LEU:HB2	2.31	0.46
2:I:2676:ARG:NH1	2:I:2716:ASP:OD1	2.49	0.46
2:I:3984:ARG:NH1	2:I:3987:ASP:OD2	2.27	0.46
1:F:44:LYS:HB3	1:F:44:LYS:HE3	1.63	0.46
2:A:359:TYR:HB2	2:A:374:LYS:HB3	1.97	0.46
2:A:4251:ILE:HG21	2:A:4550:LYS:HA	1.96	0.46
2:G:219:VAL:HG12	2:G:259:LEU:HD22	1.98	0.46
2:G:815:VAL:HG11	2:G:821:LEU:HB2	1.97	0.46
2:G:1229:ASN:OD1	2:I:3570:ARG:NH1	2.49	0.46
2:G:1748:PHE:HE1	2:G:1760:HIS:CD2	2.32	0.46
2:G:2003:GLN:HA	2:G:2006:ILE:HG22	1.98	0.46
2:G:3420:ARG:HG3	2:G:3520:ILE:HD11	1.96	0.46
2:G:4130:ASN:HA	2:G:4133:GLN:HB2	1.96	0.46
2:B:2297:LYS:HE3	2:B:2301:TYR:HE2	1.81	0.46
2:B:2604:GLU:HB2	2:B:2639:MET:HG3	1.98	0.46
2:I:2325:PRO:HG2	2:I:2421:ALA:HB1	1.97	0.46
2:I:3327:LEU:HD21	2:I:3364:ARG:HH12	1.75	0.46
2:A:72:SER:HA	2:A:106:ALA:O	2.16	0.46
2:A:903:LEU:O	2:A:903:LEU:HD12	2.16	0.46
2:A:3427:PRO:HD2	2:A:3581:GLY:HA3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3433:GLU:O	2:A:3437:MET:HG3	2.15	0.46
2:A:4948:GLU:HA	2:A:4951:LYS:CG	2.45	0.46
1:H:31:GLN:HB3	2:G:1299:GLN:OE1	2.15	0.46
1:O:24:VAL:HG12	1:O:103:LEU:HA	1.97	0.46
2:G:710:ASP:N	2:G:710:ASP:OD1	2.47	0.46
2:G:1122:TYR:HE1	2:G:1133:HIS:NE2	2.14	0.46
2:G:2031:LEU:HD11	2:G:3657:TYR:HE1	1.79	0.46
2:G:2584:HIS:NE2	2:G:2625:ARG:HD2	2.31	0.46
2:G:2604:GLU:HB2	2:G:2639:MET:HG3	1.98	0.46
2:B:903:LEU:O	2:B:903:LEU:HD12	2.16	0.46
2:B:3428:ASN:O	2:B:3432:GLU:HG2	2.16	0.46
2:B:3530:GLN:OE1	2:B:3534:MET:HE3	2.16	0.46
2:I:815:VAL:HG11	2:I:821:LEU:HB2	1.97	0.46
2:I:2449:GLU:O	2:I:2453:ILE:HG12	2.16	0.46
2:I:2894:LEU:O	2:I:2897:LYS:NZ	2.48	0.46
2:I:2970:SER:O	2:I:2974:ILE:HG23	2.15	0.46
2:I:4753:HIS:CG	2:I:4754:ASN:N	2.84	0.46
2:A:1122:TYR:HE1	2:A:1133:HIS:NE2	2.14	0.46
2:A:1650:ILE:O	2:A:1653:LEU:HB2	2.16	0.46
2:A:2469:ILE:HG22	2:A:2502:MET:SD	2.55	0.46
2:A:2587:TYR:OH	2:A:2591:ARG:NH2	2.36	0.46
2:A:2963:LEU:HD22	2:A:3006:ILE:HD11	1.97	0.46
2:A:3100:SER:HB3	2:A:3167:ARG:NH1	2.31	0.46
2:A:3147:ILE:CD1	2:A:3156:VAL:HB	2.46	0.46
2:A:4694:ASP:HA	2:A:4700:GLN:HE21	1.79	0.46
2:G:140:ASP:OD1	2:G:140:ASP:N	2.47	0.46
2:G:224:HIS:O	2:G:226:HIS:N	2.49	0.46
2:G:1595:LEU:HD12	2:G:1595:LEU:HA	1.79	0.46
2:G:1650:ILE:O	2:G:1653:LEU:HB2	2.16	0.46
2:G:2155:LEU:CD1	2:G:2198:MET:CE	2.94	0.46
2:G:2319:PRO:HD3	2:G:2394:GLY:HA2	1.96	0.46
2:G:3155:ASP:O	2:G:3158:LEU:HD22	2.15	0.46
2:B:72:SER:HA	2:B:106:ALA:O	2.15	0.46
2:B:345:LEU:HD22	2:B:387:ALA:HB3	1.98	0.46
2:B:880:GLU:HB2	2:B:968:ALA:O	2.16	0.46
2:B:1087:ARG:HB3	2:B:1223:PHE:CD2	2.50	0.46
2:B:2676:ARG:NH1	2:B:2716:ASP:OD1	2.49	0.46
2:B:3155:ASP:O	2:B:3158:LEU:HD22	2.15	0.46
2:B:4753:HIS:CG	2:B:4754:ASN:N	2.84	0.46
2:I:981:GLN:NE2	2:I:1053:ILE:HB	2.30	0.46
2:I:4231:MET:HG3	2:I:4959:PHE:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:347:PHE:CE2	2:A:387:ALA:HB2	2.51	0.46
2:A:463:GLU:OE1	2:A:467:LYS:HE2	2.15	0.46
2:A:546:TRP:CE2	2:A:550:LYS:HE2	2.51	0.46
2:A:687:ALA:O	2:A:777:PHE:HA	2.16	0.46
2:A:1924:GLU:HA	2:A:1928:GLN:CD	2.36	0.46
2:A:2584:HIS:NE2	2:A:2625:ARG:HD2	2.31	0.46
2:A:2679:PHE:HB2	2:A:2706:ILE:HG21	1.97	0.46
2:A:3077:ALA:C	2:A:3079:THR:H	2.19	0.46
2:A:4077:PHE:CE1	2:A:4097:MET:CE	2.98	0.46
2:A:4807:PHE:HE1	2:B:4879:MET:CE	2.29	0.46
2:G:546:TRP:CE2	2:G:550:LYS:HE2	2.51	0.46
2:G:2297:LYS:HE3	2:G:2301:TYR:HE2	1.81	0.46
2:G:2595:LEU:HD22	2:G:2599:GLN:CG	2.46	0.46
2:G:3147:ILE:CD1	2:G:3156:VAL:HB	2.46	0.46
2:G:4077:PHE:CE1	2:G:4097:MET:CE	2.98	0.46
2:B:20:VAL:HG12	2:B:204:PRO:HA	1.97	0.46
2:B:1115:LEU:HD13	2:B:1193:SER:HB2	1.98	0.46
2:B:1650:ILE:O	2:B:1653:LEU:HB2	2.16	0.46
2:B:2735:PHE:CE1	2:B:2737:PRO:HG3	2.51	0.46
2:B:2904:LEU:HD23	2:B:2904:LEU:H	1.80	0.46
2:B:3100:SER:HB3	2:B:3167:ARG:NH1	2.31	0.46
2:B:3992:PHE:HB3	2:B:3996:PHE:CE2	2.51	0.46
2:I:880:GLU:HB2	2:I:968:ALA:O	2.16	0.46
2:I:884:LEU:HB2	2:I:969:PRO:HD3	1.97	0.46
2:I:1039:LEU:N	2:I:1039:LEU:HD23	2.31	0.46
2:I:2003:GLN:HA	2:I:2006:ILE:HG22	1.98	0.46
2:I:2469:ILE:HG22	2:I:2502:MET:SD	2.55	0.46
2:I:2595:LEU:HD22	2:I:2599:GLN:CG	2.46	0.46
2:I:2604:GLU:HB2	2:I:2639:MET:HG3	1.98	0.46
2:A:20:VAL:HG12	2:A:204:PRO:HA	1.97	0.45
2:A:183:SER:O	2:A:189:LEU:HA	2.14	0.45
2:A:981:GLN:NE2	2:A:1053:ILE:HB	2.30	0.45
2:A:1972:ASN:OD1	2:A:1973:GLN:N	2.50	0.45
2:A:2319:PRO:HD3	2:A:2394:GLY:HA2	1.96	0.45
2:A:2595:LEU:HD22	2:A:2599:GLN:CG	2.46	0.45
2:A:2604:GLU:HB2	2:A:2639:MET:HG3	1.98	0.45
2:A:2974:ILE:HG13	2:A:2975:ALA:N	2.32	0.45
2:A:3204:ALA:HB2	2:A:3305:THR:HG22	1.98	0.45
2:A:3537:LYS:NZ	2:A:3603:LEU:HB2	2.31	0.45
2:A:3846:ALA:HB1	2:A:3873:LYS:HG3	1.98	0.45
2:A:3984:ARG:HH22	2:B:161:GLU:HA	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4044:MET:O	2:A:4047:MET:HB3	2.16	0.45
2:A:4212:GLU:CD	2:A:4215:ARG:HH12	2.20	0.45
1:O:44:LYS:HB3	1:O:44:LYS:HE3	1.63	0.45
2:G:880:GLU:HB2	2:G:968:ALA:O	2.16	0.45
2:G:1037:ASP:O	2:G:1041:GLN:HG2	2.15	0.45
2:G:2166:LEU:HD11	2:G:2206:THR:HG23	1.98	0.45
2:G:2458:ARG:HD3	2:G:2509:VAL:HG12	1.98	0.45
2:G:2567:PRO:HA	2:G:2613:TYR:CG	2.51	0.45
2:G:2970:SER:O	2:G:2974:ILE:HG23	2.15	0.45
2:G:4753:HIS:CG	2:G:4754:ASN:N	2.84	0.45
2:B:576:ASN:ND2	2:B:2169:GLN:OE1	2.49	0.45
2:B:981:GLN:NE2	2:B:1053:ILE:HB	2.30	0.45
2:B:1859:VAL:HA	2:B:1862:ILE:HD12	1.98	0.45
2:B:2469:ILE:CB	2:B:2502:MET:HE1	2.47	0.45
2:B:2595:LEU:HD22	2:B:2599:GLN:CG	2.46	0.45
2:B:4948:GLU:HA	2:B:4951:LYS:CG	2.45	0.45
2:I:924:MET:HE1	2:I:927:GLU:CB	2.46	0.45
2:I:1293:LEU:HD11	2:I:1594:ARG:HD3	1.98	0.45
2:I:2959:PHE:CD2	2:I:2963:LEU:HD11	2.49	0.45
2:I:3077:ALA:C	2:I:3079:THR:H	2.19	0.45
2:I:3147:ILE:CD1	2:I:3156:VAL:HB	2.46	0.45
2:A:576:ASN:ND2	2:A:2169:GLN:OE1	2.49	0.45
2:A:2959:PHE:CD2	2:A:2963:LEU:HD11	2.49	0.45
2:A:3634:ALA:HA	2:A:3637:ARG:HD3	1.99	0.45
2:A:3992:PHE:HB3	2:A:3996:PHE:CE2	2.51	0.45
2:A:5011:TRP:CH2	6:A:5304:CFF:H142	2.52	0.45
2:G:1972:ASN:OD1	2:G:1973:GLN:N	2.50	0.45
2:G:2237:CYS:O	2:G:2241:ARG:HG3	2.16	0.45
2:G:2676:ARG:NH1	2:G:2716:ASP:OD1	2.49	0.45
2:G:2963:LEU:HD22	2:G:3006:ILE:HD11	1.97	0.45
2:B:1000:ARG:HB2	2:B:1021:LEU:HD21	1.98	0.45
2:B:1421:ARG:HE	2:B:1421:ARG:HB2	1.46	0.45
2:B:2132:GLY:O	2:B:2136:ARG:HG3	2.15	0.45
2:B:3147:ILE:CD1	2:B:3156:VAL:HB	2.46	0.45
2:B:3204:ALA:HB2	2:B:3305:THR:HG22	1.98	0.45
2:I:224:HIS:O	2:I:226:HIS:N	2.49	0.45
2:I:345:LEU:HD22	2:I:387:ALA:HB3	1.98	0.45
2:I:347:PHE:CE2	2:I:387:ALA:HB2	2.51	0.45
2:I:903:LEU:O	2:I:903:LEU:HD12	2.16	0.45
2:I:1037:ASP:O	2:I:1041:GLN:HG2	2.15	0.45
2:I:1115:LEU:HD13	2:I:1193:SER:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1972:ASN:OD1	2:I:1973:GLN:N	2.49	0.45
2:I:4104:THR:HG22	2:I:4107:GLU:OE2	2.16	0.45
2:A:1039:LEU:N	2:A:1039:LEU:HD23	2.31	0.45
2:A:2595:LEU:HD21	2:A:2599:GLN:NE2	2.31	0.45
2:A:4967:TYR:HE2	2:A:5030:LYS:HG3	1.80	0.45
1:H:24:VAL:HG12	1:H:103:LEU:HA	1.97	0.45
1:J:31:GLN:NE2	1:J:96:THR:CG2	2.79	0.45
2:G:576:ASN:ND2	2:G:2169:GLN:OE1	2.49	0.45
2:G:1153:ILE:HG13	2:G:1160:ILE:HG12	1.99	0.45
2:G:2449:GLU:O	2:G:2453:ILE:HG12	2.16	0.45
2:G:2679:PHE:HB2	2:G:2706:ILE:HG21	1.97	0.45
2:G:3204:ALA:HB2	2:G:3305:THR:HG22	1.98	0.45
2:G:4021:LYS:NZ	2:G:4138:ASP:HB2	2.31	0.45
2:G:4967:TYR:HE2	2:G:5030:LYS:HG3	1.80	0.45
2:G:5011:TRP:CH2	6:G:5304:CFF:H142	2.52	0.45
2:B:2449:GLU:O	2:B:2453:ILE:HG12	2.16	0.45
2:B:2476:ILE:HG23	2:B:2536:LEU:HD11	1.98	0.45
2:B:4044:MET:O	2:B:4047:MET:HB3	2.16	0.45
2:B:5011:TRP:CH2	6:B:5304:CFF:H142	2.52	0.45
2:I:266:ARG:CZ	2:I:330:ASP:HB2	2.46	0.45
2:I:546:TRP:CE2	2:I:550:LYS:HE2	2.51	0.45
2:I:1650:ILE:O	2:I:1653:LEU:HB2	2.16	0.45
2:I:3182:TYR:HA	2:I:3185:LYS:HD3	1.99	0.45
2:I:3537:LYS:NZ	2:I:3603:LEU:HB2	2.31	0.45
2:I:3847:PHE:HE2	2:I:3936:TYR:HE2	1.63	0.45
2:A:245:VAL:HG21	2:A:299:LEU:HD23	1.98	0.45
2:A:813:GLU:HG2	2:A:1010:VAL:HG22	1.99	0.45
2:A:2166:LEU:HD11	2:A:2206:THR:HG23	1.98	0.45
2:A:2268:GLN:HG3	2:A:2269:GLY:N	2.30	0.45
2:A:2290:LEU:HD13	2:A:2295:LEU:HD21	1.99	0.45
2:A:3327:LEU:CD1	2:A:3368:ARG:NH2	2.71	0.45
2:G:149:THR:O	2:G:171:LEU:HA	2.16	0.45
2:G:347:PHE:CE2	2:G:387:ALA:HB2	2.51	0.45
2:G:903:LEU:O	2:G:903:LEU:HD12	2.16	0.45
2:G:3187:ARG:HH12	2:G:3267:PRO:CB	2.26	0.45
2:G:3846:ALA:HB1	2:G:3873:LYS:HG3	1.98	0.45
2:G:4189:ARG:HB2	2:G:4189:ARG:CZ	2.46	0.45
2:G:4212:GLU:CD	2:G:4215:ARG:HH12	2.20	0.45
2:B:687:ALA:O	2:B:777:PHE:HA	2.17	0.45
2:B:1276:THR:O	2:B:1282:SER:OG	2.28	0.45
2:B:1420:ASN:OD1	2:B:1421:ARG:NE	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2567:PRO:HA	2:B:2613:TYR:CG	2.51	0.45
2:B:2595:LEU:HD21	2:B:2599:GLN:NE2	2.31	0.45
2:B:4189:ARG:HB2	2:B:4189:ARG:CZ	2.46	0.45
2:B:4212:GLU:CD	2:B:4215:ARG:HH12	2.20	0.45
2:I:72:SER:HA	2:I:106:ALA:O	2.16	0.45
2:I:293:LEU:HD12	2:I:378:LEU:HD13	1.98	0.45
2:I:710:ASP:N	2:I:710:ASP:OD1	2.47	0.45
2:I:2237:CYS:O	2:I:2241:ARG:HG3	2.16	0.45
2:I:2595:LEU:HD21	2:I:2599:GLN:NE2	2.31	0.45
2:I:2967:MET:HE3	2:I:3045:LYS:CE	2.37	0.45
2:I:3428:ASN:O	2:I:3432:GLU:HG2	2.16	0.45
2:A:2307:LEU:HD11	2:A:2362:GLU:HG3	1.97	0.45
2:A:2894:LEU:CB	2:A:2897:LYS:HZ1	2.29	0.45
2:A:3445:TRP:CH2	2:A:3452:LYS:CG	2.93	0.45
2:G:266:ARG:CZ	2:G:330:ASP:HB2	2.46	0.45
2:G:359:TYR:HB2	2:G:374:LYS:HB3	1.97	0.45
2:G:1115:LEU:HD13	2:G:1193:SER:HB2	1.99	0.45
2:G:1261:ASP:OD1	2:G:1262:GLY:N	2.39	0.45
2:G:2423:MET:HE3	2:G:2494:PHE:HD1	1.82	0.45
2:G:2476:ILE:HG23	2:G:2536:LEU:HD11	1.98	0.45
2:G:2615:ARG:NH1	2:G:2618:MET:HE2	2.27	0.45
2:G:3077:ALA:C	2:G:3079:THR:H	2.19	0.45
2:G:3111:ARG:HH22	2:G:3175:LEU:HD13	1.82	0.45
2:G:3537:LYS:NZ	2:G:3603:LEU:HB2	2.31	0.45
2:G:4044:MET:O	2:G:4047:MET:HB3	2.16	0.45
2:B:2894:LEU:O	2:B:2897:LYS:NZ	2.48	0.45
2:I:1122:TYR:HE1	2:I:1133:HIS:NE2	2.14	0.45
2:I:1153:ILE:HG13	2:I:1160:ILE:HG12	1.99	0.45
2:I:2470:ILE:HD13	2:I:2502:MET:SD	2.57	0.45
2:I:2567:PRO:HA	2:I:2613:TYR:CG	2.51	0.45
2:I:2735:PHE:CE1	2:I:2737:PRO:HG3	2.51	0.45
2:I:4956:THR:HG23	2:I:4957:LYS:HG3	1.99	0.45
2:I:4967:TYR:HE2	2:I:5030:LYS:HG3	1.80	0.45
1:F:68:LEU:HA	1:F:103:LEU:HD22	1.98	0.45
2:A:293:LEU:HD12	2:A:378:LEU:HD13	1.98	0.45
2:A:1000:ARG:HB2	2:A:1021:LEU:HD21	1.98	0.45
2:A:1420:ASN:OD1	2:A:1421:ARG:NE	2.50	0.45
2:A:2098:VAL:CG2	2:A:2101:MET:HE1	2.35	0.45
2:A:3547:GLU:O	2:A:3550:ARG:HD3	2.17	0.45
1:O:31:GLN:NE2	1:O:96:THR:CG2	2.79	0.45
1:O:106:LEU:HD23	1:O:106:LEU:HA	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:797:HIS:CG	2:G:821:LEU:HD23	2.52	0.45
2:G:2290:LEU:HD13	2:G:2295:LEU:HD21	1.99	0.45
2:G:2383:ALA:O	2:G:2386:ILE:HG22	2.17	0.45
2:G:2469:ILE:HG22	2:G:2502:MET:SD	2.55	0.45
2:G:2754:PHE:HA	2:G:2758:PHE:CB	2.44	0.45
2:G:4231:MET:HG3	2:G:4959:PHE:HE2	1.81	0.45
2:B:3218:VAL:O	2:B:3222:LYS:HB2	2.16	0.45
2:B:4021:LYS:NZ	2:B:4138:ASP:HB2	2.31	0.45
2:B:4104:THR:HG22	2:B:4107:GLU:OE2	2.16	0.45
2:B:4231:MET:HG3	2:B:4959:PHE:HE2	1.81	0.45
2:I:893:TYR:HB3	2:I:960:MET:HE2	1.98	0.45
2:I:1421:ARG:HE	2:I:1421:ARG:HB2	1.46	0.45
2:I:1829:PRO:O	2:I:1832:GLY:N	2.44	0.45
2:I:5011:TRP:CH2	6:I:5304:CFF:H142	2.52	0.45
2:A:345:LEU:HD22	2:A:387:ALA:HB3	1.98	0.45
2:A:1115:LEU:HD13	2:A:1193:SER:HB2	1.99	0.45
2:A:1827:ARG:C	2:A:1829:PRO:HD3	2.37	0.45
2:A:2031:LEU:HD11	2:A:3657:TYR:HE1	1.79	0.45
2:A:2155:LEU:CD1	2:A:2198:MET:CE	2.94	0.45
2:A:2377:LEU:O	2:A:2381:GLU:HG2	2.17	0.45
2:A:2470:ILE:HD13	2:A:2502:MET:SD	2.57	0.45
2:A:2894:LEU:CA	2:A:2897:LYS:HZ1	2.23	0.45
2:A:4021:LYS:NZ	2:A:4138:ASP:HB2	2.31	0.45
2:A:4214:LYS:O	2:A:4218:ILE:HG12	2.17	0.45
1:H:31:GLN:HA	1:H:98:ILE:HD13	1.96	0.45
1:J:23:VAL:HG12	1:J:45:PRO:HB3	1.99	0.45
2:G:924:MET:CE	2:G:924:MET:CA	2.95	0.45
2:G:1827:ARG:C	2:G:1829:PRO:HD3	2.37	0.45
2:G:3110:LEU:HD13	2:G:3175:LEU:HD11	1.99	0.45
2:G:3634:ALA:HA	2:G:3637:ARG:HD3	1.99	0.45
2:G:4104:THR:HG22	2:G:4107:GLU:OE2	2.16	0.45
2:G:4672:LYS:HB2	2:G:4672:LYS:HE2	1.63	0.45
2:B:347:PHE:CE2	2:B:387:ALA:HB2	2.51	0.45
2:B:1029:GLU:N	2:B:1029:GLU:OE2	2.50	0.45
2:B:1122:TYR:HE1	2:B:1133:HIS:NE2	2.14	0.45
2:B:1153:ILE:HG13	2:B:1160:ILE:HG12	1.99	0.45
2:B:1827:ARG:C	2:B:1829:PRO:HD3	2.37	0.45
2:B:2155:LEU:CD1	2:B:2198:MET:CE	2.94	0.45
2:B:2470:ILE:HD13	2:B:2502:MET:SD	2.57	0.45
2:B:2792:ARG:NH1	2:B:2801:ASP:OD2	2.50	0.45
2:B:2825:LYS:HD2	2:B:2933:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3768:SER:O	2:B:3772:THR:OG1	2.21	0.45
1:F:84:ALA:O	1:F:93:PRO:HB3	2.17	0.45
2:A:183:SER:O	2:A:183:SER:OG	2.28	0.45
2:A:869:ARG:HE	2:A:869:ARG:HB3	1.54	0.45
2:A:884:LEU:HB2	2:A:969:PRO:HD3	1.97	0.45
2:A:2003:GLN:HA	2:A:2006:ILE:HG22	1.98	0.45
2:A:2644:LEU:O	2:A:2648:TYR:HD2	2.00	0.45
2:A:3428:ASN:O	2:A:3432:GLU:HG2	2.16	0.45
2:A:4104:THR:HG22	2:A:4107:GLU:OE2	2.16	0.45
2:A:4189:ARG:HB2	2:A:4189:ARG:CZ	2.46	0.45
1:H:85:THR:CG2	1:H:86:GLY:N	2.78	0.45
1:O:84:ALA:O	1:O:93:PRO:HB3	2.17	0.45
2:G:575:LEU:HD22	2:G:609:CYS:HB2	1.99	0.45
2:G:826:ILE:HG22	2:G:827:LYS:H	1.80	0.45
2:G:2325:PRO:HG2	2:G:2421:ALA:HB1	1.97	0.45
2:G:2595:LEU:HD21	2:G:2599:GLN:NE2	2.31	0.45
2:G:3182:TYR:HA	2:G:3185:LYS:HD3	1.99	0.45
2:B:149:THR:O	2:B:171:LEU:HA	2.16	0.45
2:B:974:HIS:HB2	2:B:976:ARG:HH22	1.80	0.45
2:B:2742:THR:OG1	2:B:2814:LYS:HB3	2.17	0.45
2:B:3198:ALA:HB3	2:B:3279:SER:HB3	1.99	0.45
2:B:4721:LYS:NZ	2:B:4741:LEU:O	2.44	0.45
2:I:371:VAL:HG13	2:I:373:LYS:HZ1	1.82	0.45
2:I:974:HIS:HB2	2:I:976:ARG:HH22	1.80	0.45
2:I:1748:PHE:HE1	2:I:1760:HIS:CD2	2.32	0.45
2:I:1859:VAL:HA	2:I:1862:ILE:HD12	1.98	0.45
2:I:2261:SER:OG	2:I:2273:LEU:HB2	2.17	0.45
2:I:2297:LYS:HE3	2:I:2301:TYR:HE2	1.81	0.45
2:I:2555:CYS:CB	2:I:2599:GLN:HG3	2.47	0.45
2:I:2742:THR:OG1	2:I:2814:LYS:HB3	2.17	0.45
2:I:3110:LEU:HD13	2:I:3175:LEU:HD11	1.99	0.45
2:I:3198:ALA:HB3	2:I:3279:SER:HB3	1.99	0.45
2:I:3327:LEU:CD1	2:I:3368:ARG:NH2	2.71	0.45
2:I:3334:TRP:HZ3	2:I:3338:LEU:HD23	1.82	0.45
2:I:3427:PRO:HD2	2:I:3581:GLY:HA3	1.98	0.45
2:I:3547:GLU:O	2:I:3550:ARG:HD3	2.17	0.45
2:I:4214:LYS:O	2:I:4218:ILE:HG12	2.17	0.45
2:A:27:THR:OG1	2:A:32:GLN:OE1	2.35	0.45
2:A:266:ARG:CZ	2:A:330:ASP:HB2	2.46	0.45
2:A:575:LEU:HD22	2:A:609:CYS:HB2	1.99	0.45
2:A:651:GLY:N	2:A:658:GLN:OE1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1013:ILE:HB	2:A:1014:PRO:HD3	1.99	0.45
2:A:1153:ILE:HG13	2:A:1160:ILE:HG12	1.99	0.45
2:A:1595:LEU:HD12	2:A:1595:LEU:HA	1.78	0.45
2:A:2449:GLU:O	2:A:2453:ILE:HG12	2.16	0.45
2:A:2458:ARG:HD3	2:A:2509:VAL:HG12	1.98	0.45
2:A:2485:LEU:HD23	2:A:2541:PHE:CZ	2.52	0.45
2:A:3182:TYR:HA	2:A:3185:LYS:HD3	1.99	0.45
1:H:31:GLN:NE2	1:H:96:THR:CG2	2.79	0.45
1:J:84:ALA:O	1:J:93:PRO:HB3	2.17	0.45
2:G:345:LEU:HD22	2:G:387:ALA:HB3	1.98	0.45
2:G:1293:LEU:HD11	2:G:1594:ARG:HD3	1.97	0.45
2:G:2098:VAL:CG2	2:G:2101:MET:HE2	2.43	0.45
2:G:2462:PRO:HD2	2:G:2465:ASP:OD2	2.17	0.45
2:G:2973:PHE:CE2	2:G:2995:ILE:HG22	2.52	0.45
2:G:3081:MET:CE	2:G:3089:LYS:HA	2.47	0.45
2:G:3459:VAL:HG21	2:G:3503:TYR:CD2	2.52	0.45
2:G:3547:GLU:O	2:G:3550:ARG:HD3	2.17	0.45
2:B:266:ARG:CZ	2:B:330:ASP:HB2	2.46	0.45
2:B:813:GLU:HG2	2:B:1010:VAL:HG22	1.99	0.45
2:B:924:MET:HE2	2:B:927:GLU:CB	2.47	0.45
2:B:1293:LEU:HD11	2:B:1594:ARG:HD3	1.98	0.45
2:B:2003:GLN:HA	2:B:2006:ILE:HG22	1.98	0.45
2:B:2290:LEU:HD13	2:B:2295:LEU:HD21	1.99	0.45
2:B:2377:LEU:O	2:B:2381:GLU:HG2	2.17	0.45
2:B:2469:ILE:C	2:B:2502:MET:SD	2.95	0.45
2:B:2644:LEU:O	2:B:2648:TYR:HD2	2.00	0.45
2:B:3042:LEU:O	2:B:3046:LEU:HG	2.17	0.45
2:B:3068:LEU:CG	2:B:3139:VAL:HG21	2.33	0.45
2:B:3459:VAL:HG21	2:B:3503:TYR:CD2	2.52	0.45
2:B:4214:LYS:O	2:B:4218:ILE:HG12	2.17	0.45
2:B:4966:ASP:OD1	2:B:4967:TYR:N	2.50	0.45
2:I:576:ASN:ND2	2:I:2169:GLN:OE1	2.49	0.45
2:I:2383:ALA:O	2:I:2386:ILE:HG22	2.17	0.45
2:I:3144:PHE:O	2:I:3147:ILE:HG22	2.17	0.45
2:I:3204:ALA:HB2	2:I:3305:THR:HG22	1.99	0.45
2:I:3368:ARG:NH2	2:I:3404:ASP:OD2	2.46	0.45
2:I:3550:ARG:O	2:I:3554:GLN:OE1	2.35	0.45
2:I:4044:MET:O	2:I:4047:MET:HB3	2.16	0.45
2:A:1029:GLU:N	2:A:1029:GLU:OE2	2.50	0.45
2:A:2325:PRO:HG2	2:A:2421:ALA:HB1	1.97	0.45
2:A:2567:PRO:HA	2:A:2613:TYR:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2973:PHE:CE2	2:A:2995:ILE:HG22	2.52	0.45
2:A:3081:MET:CE	2:A:3089:LYS:HA	2.47	0.45
2:A:3110:LEU:HD13	2:A:3175:LEU:HD11	1.99	0.45
2:A:3459:VAL:HG21	2:A:3503:TYR:CD2	2.52	0.45
2:G:293:LEU:HD12	2:G:378:LEU:HD13	1.98	0.45
2:G:2261:SER:OG	2:G:2273:LEU:HB2	2.17	0.45
2:G:2377:LEU:O	2:G:2381:GLU:HG2	2.17	0.45
2:G:2470:ILE:HD13	2:G:2502:MET:SD	2.57	0.45
2:G:2825:LYS:HD2	2:G:2933:ASN:O	2.17	0.45
2:G:3150:HIS:CB	2:G:3152:PHE:CE1	2.97	0.45
2:G:3363:GLY:O	2:G:3367:LYS:HG3	2.17	0.45
2:G:4137:ARG:NH1	2:G:4199:GLU:OE2	2.47	0.45
2:B:293:LEU:HD12	2:B:378:LEU:HD13	1.98	0.45
2:B:2696:TYR:O	2:B:2700:MET:HE2	2.17	0.45
2:B:2967:MET:HE3	2:B:3045:LYS:CE	2.35	0.45
2:B:3846:ALA:HB1	2:B:3873:LYS:HG3	1.98	0.45
2:B:4868:ASP:OD1	2:B:4868:ASP:N	2.50	0.45
2:B:4967:TYR:HE2	2:B:5030:LYS:HG3	1.80	0.45
2:I:149:THR:O	2:I:171:LEU:HA	2.16	0.45
2:I:924:MET:CE	2:I:924:MET:CA	2.95	0.45
2:I:1000:ARG:HB2	2:I:1021:LEU:HD21	1.98	0.45
2:I:2431:ASP:O	2:I:2435:ARG:HG2	2.17	0.45
2:I:2469:ILE:C	2:I:2502:MET:SD	2.96	0.45
2:I:4189:ARG:HB2	2:I:4189:ARG:CZ	2.46	0.45
2:I:4212:GLU:CD	2:I:4215:ARG:HH12	2.20	0.45
2:A:1293:LEU:HD11	2:A:1594:ARG:HD3	1.98	0.44
2:A:2423:MET:HE3	2:A:2494:PHE:HD1	1.82	0.44
2:A:2742:THR:OG1	2:A:2814:LYS:HB3	2.17	0.44
2:A:3139:VAL:HA	2:A:3142:THR:HG22	2.00	0.44
1:J:68:LEU:HA	1:J:103:LEU:HD22	1.98	0.44
1:O:23:VAL:HG12	1:O:45:PRO:HB3	1.98	0.44
2:G:2339:VAL:HG21	2:G:2436:CYS:SG	2.57	0.44
2:G:2527:LEU:HG	2:G:2530:MET:HE3	1.99	0.44
2:G:2676:ARG:HE	2:G:2676:ARG:HB2	1.56	0.44
2:G:2792:ARG:NH1	2:G:2801:ASP:OD2	2.50	0.44
2:G:3428:ASN:O	2:G:3432:GLU:HG2	2.16	0.44
2:B:27:THR:OG1	2:B:32:GLN:OE1	2.35	0.44
2:B:2166:LEU:HD11	2:B:2206:THR:HG23	1.98	0.44
2:B:2555:CYS:CB	2:B:2599:GLN:HG3	2.47	0.44
2:B:3081:MET:CE	2:B:3089:LYS:HA	2.47	0.44
2:B:3110:LEU:HD13	2:B:3175:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:245:VAL:HG21	2:I:299:LEU:HD23	1.98	0.44
2:I:842:PRO:O	2:I:1197:GLY:N	2.32	0.44
2:I:1013:ILE:HB	2:I:1014:PRO:HD3	1.99	0.44
2:I:2290:LEU:HD13	2:I:2295:LEU:HD21	1.99	0.44
2:I:2792:ARG:NH1	2:I:2801:ASP:OD2	2.50	0.44
2:I:3363:GLY:O	2:I:3367:LYS:HG3	2.17	0.44
2:I:4021:LYS:NZ	2:I:4138:ASP:HB2	2.31	0.44
2:I:4721:LYS:NZ	2:I:4741:LEU:O	2.44	0.44
2:A:244:LEU:HD23	2:A:244:LEU:HA	1.85	0.44
2:A:797:HIS:CG	2:A:821:LEU:HD23	2.52	0.44
2:A:1859:VAL:HA	2:A:1862:ILE:HD12	1.98	0.44
2:A:2469:ILE:C	2:A:2502:MET:SD	2.95	0.44
2:A:3334:TRP:HZ3	2:A:3338:LEU:HD23	1.82	0.44
2:A:3550:ARG:O	2:A:3554:GLN:OE1	2.35	0.44
2:G:245:VAL:HG21	2:G:299:LEU:HD23	1.99	0.44
2:G:813:GLU:HG2	2:G:1010:VAL:HG22	1.99	0.44
2:G:1000:ARG:HB2	2:G:1021:LEU:HD21	1.98	0.44
2:G:1013:ILE:HB	2:G:1014:PRO:HD3	1.99	0.44
2:G:1029:GLU:OE2	2:G:1029:GLU:N	2.50	0.44
2:G:2133:GLU:OE1	2:G:2136:ARG:NH2	2.51	0.44
2:G:3395:ARG:HH22	2:G:3398:PHE:HD2	1.65	0.44
2:G:3545:THR:O	2:G:3548:GLU:HG3	2.16	0.44
2:G:4956:THR:HG23	2:G:4957:LYS:HG3	1.99	0.44
2:B:1972:ASN:OD1	2:B:1973:GLN:N	2.50	0.44
2:B:2261:SER:OG	2:B:2273:LEU:HB2	2.17	0.44
2:I:945:LYS:HB2	2:I:948:ASP:OD1	2.17	0.44
2:I:1827:ARG:C	2:I:1829:PRO:HD3	2.37	0.44
2:I:2166:LEU:HD11	2:I:2206:THR:HG23	1.98	0.44
2:I:2268:GLN:HG3	2:I:2269:GLY:N	2.30	0.44
2:I:2362:GLU:O	2:I:2369:ARG:NH1	2.51	0.44
2:I:2377:LEU:O	2:I:2381:GLU:HG2	2.17	0.44
2:I:2465:ASP:N	2:I:2465:ASP:OD1	2.50	0.44
2:I:2476:ILE:HG23	2:I:2536:LEU:HD11	1.98	0.44
2:I:3545:THR:O	2:I:3548:GLU:HG3	2.16	0.44
2:I:4979:THR:HG23	3:I:5301:ATP:C4	2.52	0.44
1:F:23:VAL:HG12	1:F:45:PRO:HB3	1.99	0.44
2:A:924:MET:HE1	2:A:927:GLU:CB	2.46	0.44
2:A:2098:VAL:CG2	2:A:2101:MET:CE	2.79	0.44
2:A:2339:VAL:HG23	2:A:2350:ALA:HA	1.99	0.44
2:A:2555:CYS:CB	2:A:2599:GLN:HG3	2.47	0.44
2:A:3042:LEU:O	2:A:3046:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3395:ARG:HH22	2:A:3398:PHE:HD2	1.65	0.44
1:H:84:ALA:O	1:H:93:PRO:HB3	2.17	0.44
1:J:7:ILE:HG23	2:I:719:LEU:HD11	1.99	0.44
2:G:161:GLU:HA	2:I:3984:ARG:HH22	1.83	0.44
2:G:687:ALA:O	2:G:777:PHE:HA	2.17	0.44
2:G:2339:VAL:HG23	2:G:2350:ALA:HA	1.99	0.44
2:G:2431:ASP:O	2:G:2435:ARG:HG2	2.17	0.44
2:G:2555:CYS:CB	2:G:2599:GLN:HG3	2.47	0.44
2:G:3427:PRO:HD2	2:G:3581:GLY:HA3	1.97	0.44
2:B:245:VAL:HG21	2:B:299:LEU:HD23	1.98	0.44
2:B:1039:LEU:N	2:B:1039:LEU:HD23	2.31	0.44
2:B:1423:ASP:OD1	2:B:1425:GLU:OE2	2.36	0.44
2:B:2485:LEU:HD23	2:B:2541:PHE:CZ	2.52	0.44
2:B:3363:GLY:O	2:B:3367:LYS:HG3	2.17	0.44
2:B:3545:THR:O	2:B:3548:GLU:HG3	2.16	0.44
2:B:4791:TYR:CE1	2:B:4818:MET:HE1	2.34	0.44
2:I:3846:ALA:HB1	2:I:3873:LYS:HG3	1.98	0.44
2:I:4680:LYS:HE2	2:I:4680:LYS:HB2	1.66	0.44
2:I:4731:ILE:HB	2:I:4732:PHE:CD2	2.53	0.44
2:A:699:GLY:HA3	2:A:705:ASN:ND2	2.32	0.44
2:A:2383:ALA:O	2:A:2386:ILE:HG22	2.17	0.44
2:A:2825:LYS:HD2	2:A:2933:ASN:O	2.17	0.44
2:A:3111:ARG:HH22	2:A:3175:LEU:HD13	1.82	0.44
2:A:3144:PHE:O	2:A:3147:ILE:HG22	2.18	0.44
2:A:3230:LEU:CB	2:A:3232:LEU:HD11	2.47	0.44
2:A:3330:ASP:OD1	2:A:3331:GLU:N	2.50	0.44
2:A:3545:THR:O	2:A:3548:GLU:HG3	2.16	0.44
2:A:4877:ASP:O	2:G:4582:VAL:HG12	2.17	0.44
2:A:4956:THR:HG23	2:A:4957:LYS:HG3	1.99	0.44
1:H:23:VAL:HG12	1:H:45:PRO:HB3	1.99	0.44
2:G:863:LEU:CD2	2:G:868:GLU:HB3	2.47	0.44
2:G:2362:GLU:O	2:G:2369:ARG:NH1	2.50	0.44
2:G:2469:ILE:CB	2:G:2502:MET:HE1	2.48	0.44
2:G:3369:ALA:HA	2:G:3372:VAL:HG12	2.00	0.44
2:G:4731:ILE:HB	2:G:4732:PHE:CD2	2.53	0.44
2:B:863:LEU:CD2	2:B:868:GLU:HB3	2.47	0.44
2:B:2268:GLN:HG3	2:B:2269:GLY:N	2.30	0.44
2:B:2465:ASP:OD1	2:B:2465:ASP:N	2.50	0.44
2:B:3080:VAL:CG1	2:B:3081:MET:HE3	2.41	0.44
2:B:3427:PRO:HD2	2:B:3581:GLY:HA3	1.98	0.44
2:B:3547:GLU:O	2:B:3550:ARG:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3634:ALA:HA	2:B:3637:ARG:HD3	1.99	0.44
2:B:4045:VAL:HB	2:B:4159:ARG:NH1	2.32	0.44
2:I:687:ALA:O	2:I:777:PHE:HA	2.17	0.44
2:I:1423:ASP:OD1	2:I:1425:GLU:OE2	2.36	0.44
2:I:1607:ARG:HB2	2:I:1652:GLU:HG2	1.99	0.44
2:I:2098:VAL:CB	2:I:2101:MET:HE2	2.48	0.44
2:I:2133:GLU:OE1	2:I:2136:ARG:NH2	2.51	0.44
2:I:2973:PHE:CE2	2:I:2995:ILE:HG22	2.52	0.44
2:I:3459:VAL:HG21	2:I:3503:TYR:CD2	2.52	0.44
2:I:3634:ALA:HA	2:I:3637:ARG:HD3	1.99	0.44
2:I:4868:ASP:N	2:I:4868:ASP:OD1	2.50	0.44
1:F:31:GLN:NE2	1:F:96:THR:CG2	2.79	0.44
2:A:2259:GLU:HA	2:A:2297:LYS:HE2	2.00	0.44
2:A:2339:VAL:HG21	2:A:2436:CYS:SG	2.57	0.44
2:G:1445:PRO:HG2	2:G:1501:VAL:HG11	2.00	0.44
2:G:2469:ILE:C	2:G:2502:MET:SD	2.95	0.44
2:G:3334:TRP:HZ3	2:G:3338:LEU:HD23	1.82	0.44
2:G:4680:LYS:HE3	2:G:4686:LEU:HD13	2.00	0.44
2:G:4868:ASP:N	2:G:4868:ASP:OD1	2.50	0.44
2:B:182:LEU:HA	2:B:190:GLN:O	2.18	0.44
2:B:945:LYS:HB2	2:B:948:ASP:OD1	2.17	0.44
2:B:1013:ILE:HB	2:B:1014:PRO:HD3	1.99	0.44
2:B:2098:VAL:CB	2:B:2101:MET:HE2	2.47	0.44
2:B:2133:GLU:OE1	2:B:2136:ARG:NH2	2.51	0.44
2:B:2339:VAL:HG21	2:B:2436:CYS:SG	2.57	0.44
2:B:2462:PRO:HD2	2:B:2465:ASP:OD2	2.17	0.44
2:B:2479:LEU:HA	2:B:2541:PHE:HZ	1.83	0.44
2:B:3139:VAL:HA	2:B:3142:THR:HG22	2.00	0.44
2:B:3169:LEU:HA	2:B:3172:ILE:HG22	1.99	0.44
2:B:4090:LYS:HG2	2:B:4123:ILE:HD11	1.99	0.44
2:I:1116:GLY:O	2:I:1134:LEU:N	2.51	0.44
2:I:2009:LEU:HD23	2:I:2022:PRO:HD2	2.00	0.44
2:I:2339:VAL:HG23	2:I:2350:ALA:HA	1.99	0.44
2:I:3111:ARG:HH22	2:I:3175:LEU:HD13	1.82	0.44
2:I:3230:LEU:CB	2:I:3232:LEU:HD11	2.47	0.44
2:I:4680:LYS:HE3	2:I:4686:LEU:HD13	2.00	0.44
2:A:299:LEU:HD12	2:A:299:LEU:HA	1.81	0.44
2:A:863:LEU:CD2	2:A:868:GLU:HB3	2.47	0.44
2:A:1737:PRO:HD3	2:A:1771:LEU:CD1	2.48	0.44
2:A:2462:PRO:HD2	2:A:2465:ASP:OD2	2.17	0.44
2:A:2479:LEU:HA	2:A:2541:PHE:HZ	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3150:HIS:CB	2:A:3152:PHE:CE1	2.97	0.44
2:A:3398:PHE:CD1	2:A:3451:PHE:HD1	2.36	0.44
2:A:4231:MET:HG3	2:A:4959:PHE:HE2	1.81	0.44
2:A:4680:LYS:HE3	2:A:4686:LEU:HD13	2.00	0.44
2:G:27:THR:OG1	2:G:32:GLN:OE1	2.35	0.44
2:G:875:ALA:HB1	2:G:922:LEU:HA	2.00	0.44
2:G:1737:PRO:HD3	2:G:1771:LEU:CD1	2.48	0.44
2:G:2479:LEU:HA	2:G:2541:PHE:HZ	1.83	0.44
2:G:2644:LEU:O	2:G:2648:TYR:HD2	2.00	0.44
2:G:3139:VAL:HA	2:G:3142:THR:HG22	2.00	0.44
2:G:4214:LYS:O	2:G:4218:ILE:HG12	2.17	0.44
2:B:575:LEU:HD22	2:B:609:CYS:HB2	1.99	0.44
2:B:1116:GLY:O	2:B:1134:LEU:N	2.51	0.44
2:B:2383:ALA:O	2:B:2386:ILE:HG22	2.17	0.44
2:B:2575:ARG:HH11	2:B:2578:MET:HE3	1.56	0.44
2:B:2619:LEU:HD23	2:B:2623:LEU:HG	2.00	0.44
2:B:2973:PHE:CE2	2:B:2995:ILE:HG22	2.52	0.44
2:B:2974:ILE:HG13	2:B:2975:ALA:N	2.32	0.44
2:B:3416:VAL:CG2	2:B:3517:MET:HE2	2.40	0.44
2:I:863:LEU:CD2	2:I:868:GLU:HB3	2.47	0.44
2:I:1029:GLU:N	2:I:1029:GLU:OE2	2.50	0.44
2:I:1420:ASN:OD1	2:I:1421:ARG:NE	2.49	0.44
2:I:2462:PRO:HD2	2:I:2465:ASP:OD2	2.17	0.44
2:I:2566:ALA:HA	2:I:2569:PHE:CD1	2.39	0.44
2:I:3369:ALA:HA	2:I:3372:VAL:HG12	2.00	0.44
2:I:4763:GLY:O	2:I:4766:THR:OG1	2.29	0.44
2:A:182:LEU:HA	2:A:190:GLN:O	2.18	0.44
2:A:1423:ASP:OD1	2:A:1425:GLU:OE2	2.36	0.44
2:A:2178:MET:HG3	2:A:2228:MET:SD	2.58	0.44
2:A:2327:GLY:HA2	2:A:2330:ARG:HE	1.83	0.44
2:A:2345:SER:OG	2:A:2508:ARG:NH2	2.51	0.44
2:A:2431:ASP:O	2:A:2435:ARG:HG2	2.17	0.44
2:A:2696:TYR:O	2:A:2700:MET:HE2	2.18	0.44
2:A:3169:LEU:HA	2:A:3172:ILE:HG22	1.99	0.44
2:A:4807:PHE:CE1	2:B:4879:MET:CE	3.01	0.44
2:G:699:GLY:HA3	2:G:705:ASN:ND2	2.32	0.44
2:G:1607:ARG:HB2	2:G:1652:GLU:HG2	1.99	0.44
2:B:2362:GLU:O	2:B:2369:ARG:NH1	2.51	0.44
2:B:2500:ALA:HA	2:B:2553:TYR:CE1	2.53	0.44
2:B:3284:TRP:CZ3	2:B:3287:ARG:HD2	2.53	0.44
2:B:3850:GLN:HB2	2:B:3873:LYS:HZ1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:699:GLY:HA3	2:I:705:ASN:ND2	2.32	0.44
2:I:2676:ARG:HE	2:I:2676:ARG:HB2	1.56	0.44
2:I:3284:TRP:CZ3	2:I:3287:ARG:HD2	2.53	0.44
2:A:149:THR:O	2:A:171:LEU:HA	2.16	0.44
2:A:875:ALA:HB1	2:A:922:LEU:HA	2.00	0.44
2:A:3145:GLN:NE2	2:A:3149:GLN:OE1	2.51	0.44
2:A:3363:GLY:O	2:A:3367:LYS:HG3	2.17	0.44
2:A:4979:THR:HG23	3:A:5301:ATP:C4	2.52	0.44
1:J:68:LEU:HD11	1:J:105:ASN:HA	1.99	0.44
1:O:68:LEU:HA	1:O:103:LEU:HD22	1.99	0.44
2:G:1859:VAL:HA	2:G:1862:ILE:HD12	1.98	0.44
2:G:2485:LEU:HD23	2:G:2541:PHE:CZ	2.52	0.44
2:G:2647:HIS:O	2:G:2651:CYS:N	2.51	0.44
2:G:3169:LEU:HA	2:G:3172:ILE:HG22	1.99	0.44
2:G:3284:TRP:CZ3	2:G:3287:ARG:HD2	2.53	0.44
2:G:3330:ASP:OD1	2:G:3331:GLU:N	2.50	0.44
2:G:3409:TYR:O	2:G:3412:LEU:N	2.51	0.44
2:B:2345:SER:OG	2:B:2508:ARG:NH2	2.51	0.44
2:B:3144:PHE:O	2:B:3147:ILE:HG22	2.18	0.44
2:B:3550:ARG:O	2:B:3554:GLN:OE1	2.35	0.44
2:B:4731:ILE:HB	2:B:4732:PHE:CD2	2.53	0.44
2:I:1228:ILE:HG22	2:I:1827:ARG:NH1	2.27	0.44
2:I:2485:LEU:HD23	2:I:2541:PHE:CZ	2.52	0.44
2:I:2619:LEU:HD23	2:I:2623:LEU:HG	2.00	0.44
2:I:2672:LEU:HD22	2:I:2710:LEU:HD23	2.00	0.44
2:I:2825:LYS:HD2	2:I:2933:ASN:O	2.17	0.44
2:I:3409:TYR:O	2:I:3412:LEU:N	2.51	0.44
2:I:4045:VAL:HB	2:I:4159:ARG:NH1	2.32	0.44
2:A:657:THR:HG22	2:A:1001:VAL:HG21	2.00	0.44
2:A:1445:PRO:HG2	2:A:1501:VAL:HG11	2.00	0.44
2:A:2792:ARG:NH1	2:A:2801:ASP:OD2	2.50	0.44
2:A:2804:ILE:HA	2:A:2807:TRP:CZ3	2.53	0.44
2:A:3198:ALA:HB3	2:A:3279:SER:HB3	1.99	0.44
2:A:3284:TRP:CZ3	2:A:3287:ARG:HD2	2.53	0.44
2:G:182:LEU:HA	2:G:190:GLN:O	2.18	0.44
2:G:945:LYS:HB2	2:G:948:ASP:OD1	2.17	0.44
2:G:979:PRO:O	2:G:983:THR:HG23	2.18	0.44
2:G:1983:ALA:C	2:G:1985:THR:H	2.22	0.44
2:G:2327:GLY:HA2	2:G:2330:ARG:HE	1.83	0.44
2:G:2785:LEU:HB3	2:G:2787:THR:HG22	2.00	0.44
2:G:3042:LEU:O	2:G:3046:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3550:ARG:O	2:G:3554:GLN:OE1	2.35	0.44
2:G:4839:MET:CB	2:I:4823:LEU:HD11	2.38	0.44
2:G:4865:LYS:NZ	2:G:4901:ILE:HA	2.33	0.44
2:G:4979:THR:HG23	3:G:5301:ATP:C4	2.52	0.44
2:B:869:ARG:NH1	2:B:870:ILE:HB	2.33	0.44
2:B:2672:LEU:HD22	2:B:2710:LEU:HD23	2.00	0.44
2:B:3182:TYR:HA	2:B:3185:LYS:HD3	1.99	0.44
2:B:3206:LEU:HD21	2:B:3276:MET:HE2	2.00	0.44
2:B:3965:LEU:O	2:B:3969:ILE:HG12	2.18	0.44
2:I:613:ALA:HB2	2:I:1676:LEU:HB2	2.00	0.44
2:I:797:HIS:CG	2:I:821:LEU:HD23	2.52	0.44
2:I:2500:ALA:HA	2:I:2553:TYR:CE1	2.53	0.44
2:I:2974:ILE:HG13	2:I:2975:ALA:N	2.32	0.44
2:I:3081:MET:CE	2:I:3089:LYS:HA	2.47	0.44
2:A:945:LYS:HB2	2:A:948:ASP:OD1	2.17	0.43
2:A:1170:MET:SD	2:A:1176:GLU:OE2	2.76	0.43
2:A:2135:LEU:CD1	2:A:3658:LYS:HG3	2.48	0.43
2:A:2302:LEU:HD21	2:A:2332:LEU:HD11	2.00	0.43
2:A:2465:ASP:N	2:A:2465:ASP:OD1	2.50	0.43
2:A:2785:LEU:HB3	2:A:2787:THR:HG22	2.00	0.43
2:A:3965:LEU:O	2:A:3969:ILE:HG12	2.18	0.43
2:A:4731:ILE:HB	2:A:4732:PHE:CD2	2.53	0.43
2:G:13:PHE:O	2:G:15:ARG:NH1	2.52	0.43
2:G:924:MET:HE1	2:G:927:GLU:CB	2.48	0.43
2:G:2696:TYR:CD2	2:G:3001:ILE:CD1	3.01	0.43
2:G:2974:ILE:HG13	2:G:2975:ALA:N	2.32	0.43
2:G:3145:GLN:NE2	2:G:3149:GLN:OE1	2.51	0.43
2:G:3456:GLN:O	2:G:3459:VAL:HG22	2.17	0.43
2:B:293:LEU:HD12	2:B:378:LEU:CD1	2.48	0.43
2:B:1737:PRO:HD3	2:B:1771:LEU:CD1	2.48	0.43
2:B:2615:ARG:NH1	2:B:2618:MET:HE2	2.24	0.43
2:B:2804:ILE:HA	2:B:2807:TRP:CZ3	2.53	0.43
2:B:3145:GLN:NE2	2:B:3149:GLN:OE1	2.51	0.43
2:B:3334:TRP:HZ3	2:B:3338:LEU:HD23	1.82	0.43
2:B:4677:LEU:HD23	2:B:4711:PHE:CZ	2.53	0.43
2:B:4688:ILE:HG21	2:B:4728:HIS:HB3	2.00	0.43
2:I:875:ALA:HB1	2:I:922:LEU:HA	2.00	0.43
2:I:1445:PRO:HG2	2:I:1501:VAL:HG11	2.00	0.43
2:I:1737:PRO:HD3	2:I:1771:LEU:CD1	2.48	0.43
2:I:3934:TYR:HA	2:I:3999:MET:CE	2.45	0.43
2:I:3965:LEU:O	2:I:3969:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4966:ASP:OD1	2:I:4967:TYR:N	2.50	0.43
1:F:106:LEU:HD23	1:F:106:LEU:HA	1.83	0.43
2:A:293:LEU:HD12	2:A:378:LEU:CD1	2.49	0.43
2:A:3003:LEU:HB2	2:A:3004:PRO:HD3	2.01	0.43
1:H:68:LEU:HA	1:H:103:LEU:HD22	1.99	0.43
1:H:68:LEU:HD11	1:H:105:ASN:HA	1.99	0.43
1:O:68:LEU:HD11	1:O:105:ASN:HA	1.99	0.43
2:G:293:LEU:HD12	2:G:378:LEU:CD1	2.49	0.43
2:G:1420:ASN:OD1	2:G:1421:ARG:NE	2.49	0.43
2:G:1433:TYR:CD2	2:G:1578:ALA:HB2	2.53	0.43
2:G:2466:LEU:O	2:G:2470:ILE:HG12	2.19	0.43
2:G:2500:ALA:HA	2:G:2553:TYR:CE1	2.53	0.43
2:G:2749:GLU:O	2:G:2752:ASP:HB2	2.18	0.43
2:G:3198:ALA:HB3	2:G:3279:SER:HB3	1.99	0.43
2:B:613:ALA:HB2	2:B:1676:LEU:HB2	2.00	0.43
2:B:699:GLY:HA3	2:B:705:ASN:ND2	2.32	0.43
2:B:2178:MET:HG3	2:B:2228:MET:SD	2.58	0.43
2:B:2339:VAL:HG23	2:B:2350:ALA:HA	1.99	0.43
2:B:2431:ASP:O	2:B:2435:ARG:HG2	2.17	0.43
2:B:2638:LYS:O	2:B:2698:MET:HE3	2.18	0.43
2:B:3078:ARG:HB2	2:B:3152:PHE:HD2	1.84	0.43
2:B:3111:ARG:HH22	2:B:3175:LEU:HD13	1.82	0.43
2:B:3194:LEU:HD13	2:B:3272:ILE:HG23	1.99	0.43
2:B:3398:PHE:CD1	2:B:3451:PHE:HD1	2.36	0.43
2:B:4979:THR:HG23	3:B:5301:ATP:C4	2.53	0.43
2:I:182:LEU:HA	2:I:190:GLN:O	2.18	0.43
2:I:379:HIS:CD2	2:I:380:GLN:N	2.87	0.43
2:I:575:LEU:HD22	2:I:609:CYS:HB2	1.99	0.43
2:I:869:ARG:NH1	2:I:870:ILE:HB	2.33	0.43
2:I:979:PRO:O	2:I:983:THR:HG23	2.18	0.43
2:I:2339:VAL:HG21	2:I:2436:CYS:SG	2.57	0.43
2:I:2749:GLU:O	2:I:2752:ASP:HB2	2.18	0.43
2:I:3003:LEU:HB2	2:I:3004:PRO:HD3	2.00	0.43
2:I:3139:VAL:HA	2:I:3142:THR:HG22	2.00	0.43
2:I:3169:LEU:HA	2:I:3172:ILE:HG22	1.99	0.43
2:I:4688:ILE:HG21	2:I:4728:HIS:HB3	2.00	0.43
2:A:979:PRO:O	2:A:983:THR:HG23	2.18	0.43
2:A:2466:LEU:O	2:A:2470:ILE:HG12	2.18	0.43
2:A:3002:LEU:O	2:A:3006:ILE:HG12	2.19	0.43
2:A:3544:ASP:HB2	2:A:3548:GLU:OE2	2.19	0.43
2:G:475:GLN:HB2	2:G:533:ASN:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1116:GLY:O	2:G:1134:LEU:N	2.51	0.43
2:G:2135:LEU:CD1	2:G:3658:LYS:HG3	2.49	0.43
2:G:2259:GLU:HA	2:G:2297:LYS:HE2	2.00	0.43
2:G:3194:LEU:HD13	2:G:3272:ILE:HG23	1.99	0.43
2:B:875:ALA:HB1	2:B:922:LEU:HA	2.00	0.43
2:B:2327:GLY:HA2	2:B:2330:ARG:HE	1.83	0.43
2:B:2696:TYR:CD2	2:B:3001:ILE:CD1	3.01	0.43
2:B:3036:LYS:NZ	2:B:3076:ASP:OD1	2.33	0.43
2:B:4680:LYS:HE3	2:B:4686:LEU:HD13	2.00	0.43
2:B:4865:LYS:NZ	2:B:4901:ILE:HA	2.33	0.43
2:B:4956:THR:HG23	2:B:4957:LYS:HG3	1.99	0.43
2:I:213:TYR:CE1	2:I:337:PRO:HB2	2.54	0.43
2:I:293:LEU:HD12	2:I:378:LEU:CD1	2.48	0.43
2:I:813:GLU:HG2	2:I:1010:VAL:HG22	1.99	0.43
2:I:3042:LEU:O	2:I:3046:LEU:HG	2.17	0.43
2:I:3456:GLN:O	2:I:3459:VAL:HG22	2.17	0.43
2:I:4090:LYS:HG2	2:I:4123:ILE:HD11	1.99	0.43
2:I:4677:LEU:HD23	2:I:4711:PHE:CZ	2.53	0.43
2:I:4865:LYS:NZ	2:I:4901:ILE:HA	2.33	0.43
2:A:25:SER:O	2:A:25:SER:OG	2.34	0.43
2:A:76:ARG:O	2:A:79:GLN:N	2.52	0.43
2:A:379:HIS:CD2	2:A:380:GLN:N	2.87	0.43
2:A:924:MET:CE	2:A:924:MET:CA	2.95	0.43
2:A:2133:GLU:OE1	2:A:2136:ARG:NH2	2.51	0.43
2:A:3530:GLN:OE1	2:A:3534:MET:HE2	2.18	0.43
2:A:4090:LYS:HG2	2:A:4123:ILE:HD11	1.99	0.43
2:G:20:VAL:HG21	2:G:202:MET:HE3	1.99	0.43
2:G:76:ARG:O	2:G:79:GLN:N	2.52	0.43
2:G:220:LEU:HD12	2:G:390:LEU:HB3	2.01	0.43
2:G:1297:PHE:CE2	2:G:1525:GLY:HA2	2.54	0.43
2:G:2178:MET:HG3	2:G:2228:MET:SD	2.58	0.43
2:G:2255:SER:O	2:G:2259:GLU:HG3	2.19	0.43
2:G:2742:THR:OG1	2:G:2814:LYS:HB3	2.17	0.43
2:G:3144:PHE:O	2:G:3147:ILE:HG22	2.18	0.43
2:G:3414:ARG:NH1	2:G:3469:PHE:O	2.52	0.43
2:G:4680:LYS:HE2	2:G:4680:LYS:HB2	1.66	0.43
2:B:426:ARG:HG3	2:B:430:PRO:O	2.19	0.43
2:B:710:ASP:OD1	2:B:710:ASP:N	2.47	0.43
2:B:1607:ARG:HB2	2:B:1652:GLU:HG2	1.99	0.43
2:B:2009:LEU:HD23	2:B:2022:PRO:HD2	2.00	0.43
2:B:3456:GLN:O	2:B:3459:VAL:HG22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3544:ASP:HB2	2:B:3548:GLU:OE2	2.19	0.43
2:B:3858:MET:HE3	2:B:3865:VAL:HB	2.00	0.43
2:B:4640:GLU:HB3	2:B:4641:PRO:HD3	2.00	0.43
2:I:1994:ARG:HE	2:I:1994:ARG:N	2.16	0.43
2:I:2255:SER:O	2:I:2259:GLU:HG3	2.19	0.43
2:I:2655:TYR:HA	2:I:2667:THR:OG1	2.19	0.43
2:I:2680:TRP:HH2	2:I:2959:PHE:HA	1.83	0.43
2:I:4209:GLN:NE2	2:I:4560:TYR:CE1	2.87	0.43
1:F:68:LEU:HD11	1:F:105:ASN:HA	1.99	0.43
2:A:13:PHE:O	2:A:15:ARG:NH1	2.51	0.43
2:A:2261:SER:OG	2:A:2273:LEU:HB2	2.17	0.43
2:A:3078:ARG:HB2	2:A:3152:PHE:HD2	1.84	0.43
2:A:3369:ALA:HA	2:A:3372:VAL:HG12	2.00	0.43
2:A:3634:ALA:O	2:A:3638:MET:HG2	2.19	0.43
2:A:3718:GLU:CD	2:A:3723:MET:CE	2.87	0.43
1:H:106:LEU:HD23	1:H:106:LEU:HA	1.83	0.43
2:G:1994:ARG:HE	2:G:1994:ARG:N	2.16	0.43
2:G:2186:MET:O	2:G:2192:TYR:OH	2.22	0.43
2:G:3003:LEU:HB2	2:G:3004:PRO:HD3	2.00	0.43
2:G:3206:LEU:HD21	2:G:3276:MET:HE1	2.00	0.43
2:G:3398:PHE:CD1	2:G:3451:PHE:HD1	2.36	0.43
2:B:213:TYR:CE1	2:B:337:PRO:HB2	2.54	0.43
2:B:1170:MET:SD	2:B:1176:GLU:OE2	2.77	0.43
2:B:1994:ARG:HE	2:B:1994:ARG:N	2.16	0.43
2:B:2680:TRP:HH2	2:B:2959:PHE:HA	1.84	0.43
2:B:2700:MET:HE2	2:B:2700:MET:HB2	1.93	0.43
2:I:2479:LEU:HA	2:I:2541:PHE:HZ	1.83	0.43
2:I:3145:GLN:NE2	2:I:3149:GLN:OE1	2.51	0.43
2:A:213:TYR:CE1	2:A:337:PRO:HB2	2.54	0.43
2:A:652:ARG:NH2	2:A:750:LEU:O	2.52	0.43
2:A:1297:PHE:CE2	2:A:1525:GLY:HA2	2.54	0.43
2:A:1421:ARG:HE	2:A:1421:ARG:HB2	1.46	0.43
2:A:2556:LEU:HD23	2:A:2556:LEU:HA	1.87	0.43
2:A:3194:LEU:HD13	2:A:3272:ILE:HG23	1.99	0.43
2:A:3414:ARG:NH1	2:A:3469:PHE:O	2.52	0.43
2:A:3456:GLN:O	2:A:3459:VAL:HG22	2.17	0.43
2:G:379:HIS:CD2	2:G:380:GLN:N	2.87	0.43
2:G:1423:ASP:OD1	2:G:1425:GLU:OE2	2.36	0.43
2:G:2302:LEU:HD21	2:G:2332:LEU:HD11	2.00	0.43
2:G:2655:TYR:HA	2:G:2667:THR:OG1	2.19	0.43
2:G:2680:TRP:HH2	2:G:2959:PHE:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3718:GLU:CD	2:G:3723:MET:CE	2.87	0.43
2:G:4640:GLU:HB3	2:G:4641:PRO:HD3	2.00	0.43
2:B:797:HIS:CG	2:B:821:LEU:HD23	2.52	0.43
2:B:1228:ILE:HG22	2:B:1827:ARG:NH1	2.27	0.43
2:B:1445:PRO:HG2	2:B:1501:VAL:HG11	2.00	0.43
2:B:3002:LEU:O	2:B:3006:ILE:HG12	2.19	0.43
2:B:3230:LEU:CB	2:B:3232:LEU:HD11	2.47	0.43
2:B:3395:ARG:HH22	2:B:3398:PHE:HD2	1.65	0.43
2:B:3718:GLU:CD	2:B:3723:MET:CE	2.87	0.43
2:I:1433:TYR:CD2	2:I:1578:ALA:HB2	2.53	0.43
2:I:2155:LEU:CD1	2:I:2198:MET:CE	2.94	0.43
2:I:2277:ALA:HB1	2:I:2337:PHE:HD2	1.84	0.43
2:I:2466:LEU:O	2:I:2470:ILE:HG12	2.18	0.43
2:I:2696:TYR:CD2	2:I:3001:ILE:CD1	3.01	0.43
2:I:3078:ARG:HB2	2:I:3152:PHE:HD2	1.84	0.43
2:I:3395:ARG:HH22	2:I:3398:PHE:HD2	1.65	0.43
2:I:3634:ALA:O	2:I:3638:MET:HG2	2.19	0.43
2:A:869:ARG:NH1	2:A:870:ILE:HB	2.33	0.43
2:A:1607:ARG:HB2	2:A:1652:GLU:HG2	1.99	0.43
2:A:2283:ASN:ND2	2:A:2286:LEU:HD12	2.28	0.43
2:A:2562:ILE:HG21	2:A:2582:MET:HE3	2.00	0.43
2:A:2619:LEU:HD23	2:A:2623:LEU:HG	2.00	0.43
2:A:4209:GLN:NE2	2:A:4560:TYR:CE1	2.87	0.43
2:G:1170:MET:SD	2:G:1176:GLU:OE2	2.76	0.43
2:G:2277:ALA:HB1	2:G:2337:PHE:HD2	1.84	0.43
2:G:2762:THR:HB	2:G:2805:TYR:HE2	1.84	0.43
2:G:3544:ASP:HB2	2:G:3548:GLU:OE2	2.19	0.43
2:G:3705:PHE:CB	2:G:3778:MET:SD	3.07	0.43
2:G:4012:LEU:HD12	2:G:4012:LEU:HA	1.84	0.43
2:G:4677:LEU:HD23	2:G:4711:PHE:CZ	2.53	0.43
2:B:76:ARG:O	2:B:79:GLN:N	2.52	0.43
2:B:2302:LEU:HD21	2:B:2332:LEU:HD11	2.00	0.43
2:B:3369:ALA:HA	2:B:3372:VAL:HG12	2.00	0.43
2:B:3414:ARG:NH1	2:B:3469:PHE:O	2.52	0.43
2:B:3705:PHE:CB	2:B:3778:MET:SD	3.07	0.43
2:B:4209:GLN:NE2	2:B:4560:TYR:CE1	2.87	0.43
2:I:220:LEU:HD12	2:I:390:LEU:HB3	2.01	0.43
2:I:2259:GLU:HA	2:I:2297:LYS:HE2	2.00	0.43
2:I:2806:ARG:NH2	2:I:2809:ILE:HG22	2.34	0.43
2:I:2862:LEU:HD21	2:I:2931:GLN:HE21	1.83	0.43
2:A:220:LEU:HD12	2:A:390:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:475:GLN:HB2	2:A:533:ASN:HD21	1.83	0.43
2:A:1116:GLY:O	2:A:1134:LEU:N	2.51	0.43
2:A:2490:MET:CE	2:A:2546:MET:SD	3.07	0.43
2:A:2500:ALA:HA	2:A:2553:TYR:CE1	2.53	0.43
2:A:3014:CYS:SG	2:A:3015:LEU:N	2.92	0.43
2:A:4072:VAL:HG21	2:A:4129:ALA:HB2	2.00	0.43
2:A:4677:LEU:HD23	2:A:4711:PHE:CZ	2.53	0.43
2:A:4747:SER:HA	2:A:4750:ILE:HB	2.01	0.43
2:G:213:TYR:CE1	2:G:337:PRO:HB2	2.53	0.43
2:G:426:ARG:HG3	2:G:430:PRO:O	2.19	0.43
2:G:2098:VAL:CG2	2:G:2101:MET:HE1	2.35	0.43
2:G:2547:ALA:O	2:G:2551:ASN:OD1	2.37	0.43
2:G:4966:ASP:OD1	2:G:4967:TYR:N	2.50	0.43
2:B:379:HIS:CD2	2:B:380:GLN:N	2.86	0.43
2:B:2369:ARG:HA	2:B:2369:ARG:HE	1.84	0.43
2:B:2967:MET:O	2:B:2970:SER:OG	2.29	0.43
2:I:20:VAL:HG21	2:I:202:MET:HE2	2.00	0.43
2:I:76:ARG:O	2:I:79:GLN:N	2.52	0.43
2:I:700:GLU:H	2:I:705:ASN:HD21	1.67	0.43
2:I:870:ILE:HD12	2:I:870:ILE:HA	1.88	0.43
2:I:2178:MET:HG3	2:I:2228:MET:SD	2.58	0.43
2:I:2302:LEU:HD21	2:I:2332:LEU:HD11	2.00	0.43
2:I:2490:MET:CE	2:I:2546:MET:SD	3.07	0.43
2:I:2644:LEU:O	2:I:2648:TYR:HD2	2.00	0.43
2:I:3194:LEU:HD13	2:I:3272:ILE:HG23	1.99	0.43
2:I:3197:LEU:HD23	2:I:3197:LEU:C	2.39	0.43
2:I:4747:SER:HA	2:I:4750:ILE:HB	2.01	0.43
1:F:57:LYS:O	1:F:61:GLU:OE1	2.37	0.43
2:A:555:GLU:HG2	2:A:556:ALA:N	2.34	0.43
2:A:861:ILE:CG2	2:A:933:LEU:CD1	2.97	0.43
2:A:2009:LEU:HD23	2:A:2022:PRO:HD2	2.00	0.43
2:A:2647:HIS:O	2:A:2651:CYS:N	2.51	0.43
2:G:657:THR:HG22	2:G:1001:VAL:HG21	2.00	0.43
2:G:2566:ALA:HA	2:G:2569:PHE:CD1	2.39	0.43
2:G:2638:LYS:O	2:G:2698:MET:HE3	2.18	0.43
2:G:3965:LEU:O	2:G:3969:ILE:HG12	2.18	0.43
2:G:4569:LEU:HD11	2:G:4649:LEU:HD23	2.01	0.43
2:G:4688:ILE:HG21	2:G:4728:HIS:HB3	2.00	0.43
2:B:220:LEU:HD12	2:B:390:LEU:HB3	2.01	0.43
2:B:299:LEU:HD12	2:B:299:LEU:HA	1.81	0.43
2:B:555:GLU:HG2	2:B:556:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2135:LEU:CD1	2:B:3658:LYS:HG3	2.48	0.43
2:B:2547:ALA:O	2:B:2551:ASN:OD1	2.37	0.43
2:B:3140:LEU:HD12	2:B:3140:LEU:HA	1.81	0.43
2:B:4791:TYR:HE1	2:B:4818:MET:HE1	1.76	0.43
2:I:27:THR:OG1	2:I:32:GLN:OE1	2.35	0.43
2:I:3002:LEU:O	2:I:3006:ILE:HG12	2.19	0.43
2:I:3206:LEU:HD21	2:I:3276:MET:HE2	2.00	0.43
2:I:4072:VAL:HG21	2:I:4129:ALA:HB2	2.00	0.43
2:A:1283:LEU:HD12	2:A:1283:LEU:HA	1.93	0.43
2:A:2362:GLU:O	2:A:2369:ARG:NH1	2.51	0.43
2:A:2440:MET:HB3	2:A:2444:GLN:HE22	1.84	0.43
2:A:2696:TYR:CD2	2:A:3001:ILE:CD1	3.01	0.43
2:A:2749:GLU:O	2:A:2752:ASP:HB2	2.19	0.43
2:A:4045:VAL:HB	2:A:4159:ARG:NH1	2.32	0.43
2:A:4753:HIS:CG	2:A:4754:ASN:H	2.37	0.43
1:H:57:LYS:O	1:H:61:GLU:OE1	2.37	0.43
2:G:555:GLU:HG2	2:G:556:ALA:N	2.34	0.43
2:G:2009:LEU:HD23	2:G:2022:PRO:HD2	2.00	0.43
2:G:2804:ILE:HA	2:G:2807:TRP:CZ3	2.53	0.43
2:G:4061:PHE:HZ	2:G:4132:PHE:CD1	2.37	0.43
2:G:4636:THR:CG2	2:G:4639:MET:HE3	2.49	0.43
2:B:1433:TYR:CD2	2:B:1578:ALA:HB2	2.53	0.43
2:B:2290:LEU:HD11	2:B:2338:ALA:HB1	2.01	0.43
2:B:2749:GLU:O	2:B:2752:ASP:HB2	2.18	0.43
2:B:3219:TYR:HE1	2:B:3232:LEU:HD22	1.84	0.43
2:I:227:MET:HE3	2:I:389:PHE:HD2	1.80	0.43
2:I:555:GLU:HG2	2:I:556:ALA:N	2.34	0.43
2:I:861:ILE:CG2	2:I:933:LEU:CD1	2.97	0.43
2:I:2135:LEU:CD1	2:I:3658:LYS:HG3	2.49	0.43
2:I:2423:MET:HE3	2:I:2494:PHE:HD1	1.84	0.43
2:I:2655:TYR:CE1	2:I:2675:THR:HG21	2.54	0.43
2:I:2754:PHE:HA	2:I:2758:PHE:CB	2.44	0.43
2:I:3330:ASP:OD1	2:I:3331:GLU:N	2.50	0.43
2:I:3398:PHE:CD1	2:I:3451:PHE:HD1	2.36	0.43
2:I:3417:ASP:OD1	2:I:3418:ASN:N	2.52	0.43
2:I:3858:MET:HE3	2:I:3865:VAL:HB	2.01	0.43
2:A:1994:ARG:HE	2:A:1994:ARG:N	2.16	0.42
2:A:2255:SER:O	2:A:2259:GLU:HG3	2.19	0.42
2:A:2369:ARG:HA	2:A:2369:ARG:HE	1.84	0.42
2:A:2696:TYR:CD2	2:A:3001:ILE:CG1	3.02	0.42
2:A:3417:ASP:OD1	2:A:3418:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4061:PHE:HZ	2:A:4132:PHE:CD1	2.37	0.42
2:A:4914:VAL:HG11	2:G:4884:LEU:HD11	2.00	0.42
1:O:7:ILE:HD11	1:O:73:LYS:HB2	2.01	0.42
2:G:652:ARG:NH2	2:G:750:LEU:O	2.52	0.42
2:G:900:ASN:O	2:G:901:LYS:HE2	2.19	0.42
2:G:2655:TYR:CE1	2:G:2675:THR:HG21	2.54	0.42
2:G:2672:LEU:HD22	2:G:2710:LEU:HD23	2.00	0.42
2:G:3078:ARG:HB2	2:G:3152:PHE:HD2	1.84	0.42
2:G:3230:LEU:CB	2:G:3232:LEU:HD11	2.47	0.42
2:G:4045:VAL:HB	2:G:4159:ARG:NH1	2.32	0.42
2:B:700:GLU:H	2:B:705:ASN:HD21	1.66	0.42
2:B:861:ILE:CG2	2:B:933:LEU:CD1	2.97	0.42
2:B:979:PRO:O	2:B:983:THR:HG23	2.18	0.42
2:B:1985:THR:C	2:B:1987:SER:H	2.23	0.42
2:B:2259:GLU:HA	2:B:2297:LYS:HE2	2.00	0.42
2:B:2862:LEU:HD21	2:B:2931:GLN:HE21	1.83	0.42
2:B:2950:SER:O	2:B:2953:LYS:HG2	2.19	0.42
2:B:3417:ASP:OD1	2:B:3418:ASN:N	2.52	0.42
2:B:3984:ARG:HE	2:B:3984:ARG:HB2	1.53	0.42
2:B:4072:VAL:HG21	2:B:4129:ALA:HB2	2.00	0.42
2:I:426:ARG:HG3	2:I:430:PRO:O	2.19	0.42
2:I:1170:MET:SD	2:I:1176:GLU:OE2	2.76	0.42
2:I:2785:LEU:HB3	2:I:2787:THR:HG22	2.00	0.42
2:I:2804:ILE:HA	2:I:2807:TRP:CZ3	2.53	0.42
2:I:3718:GLU:CD	2:I:3723:MET:CE	2.87	0.42
2:A:426:ARG:HG3	2:A:430:PRO:O	2.19	0.42
2:A:3695:PRO:HB3	2:A:3699:HIS:CD2	2.54	0.42
1:H:7:ILE:HD11	1:H:73:LYS:HB2	2.01	0.42
2:G:2619:LEU:HD23	2:G:2623:LEU:HG	2.00	0.42
2:G:3002:LEU:O	2:G:3006:ILE:HG12	2.19	0.42
2:G:3400:VAL:HG22	2:G:3403:ARG:HH11	1.84	0.42
2:G:3634:ALA:O	2:G:3638:MET:HG2	2.19	0.42
2:G:4072:VAL:HG21	2:G:4129:ALA:HB2	2.00	0.42
2:G:4209:GLN:NE2	2:G:4560:TYR:CE1	2.87	0.42
2:B:2377:LEU:HD12	2:B:2468:GLY:HA3	2.01	0.42
2:B:2466:LEU:O	2:B:2470:ILE:HG12	2.18	0.42
2:B:2490:MET:CE	2:B:2546:MET:SD	3.07	0.42
2:B:2655:TYR:HA	2:B:2667:THR:OG1	2.19	0.42
2:B:3003:LEU:HB2	2:B:3004:PRO:HD3	2.01	0.42
2:B:3197:LEU:HD23	2:B:3197:LEU:C	2.39	0.42
2:B:3695:PRO:HB3	2:B:3699:HIS:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3980:LEU:HA	2:B:3980:LEU:HD23	1.77	0.42
2:I:299:LEU:HD12	2:I:299:LEU:HA	1.81	0.42
2:I:2649:GLU:HG3	2:I:2705:ALA:HB2	2.01	0.42
2:I:3705:PHE:CB	2:I:3778:MET:SD	3.07	0.42
2:I:4636:THR:CG2	2:I:4639:MET:HE3	2.49	0.42
2:A:2290:LEU:HD11	2:A:2338:ALA:HB1	2.01	0.42
2:A:2547:ALA:O	2:A:2551:ASN:OD1	2.37	0.42
2:A:2649:GLU:HG3	2:A:2705:ALA:HB2	2.01	0.42
2:A:2694:GLU:HA	2:A:2697:ARG:HB3	2.00	0.42
2:A:3858:MET:HE3	2:A:3865:VAL:HB	2.02	0.42
2:G:2750:LYS:NZ	2:G:2824:GLU:OE1	2.37	0.42
2:G:2862:LEU:HD21	2:G:2931:GLN:HE21	1.83	0.42
2:G:3078:ARG:HG3	2:G:3155:ASP:OD2	2.20	0.42
2:G:3695:PRO:HB3	2:G:3699:HIS:CD2	2.54	0.42
2:G:4090:LYS:HG2	2:G:4123:ILE:HD11	1.99	0.42
2:B:475:GLN:CB	2:B:533:ASN:HD21	2.33	0.42
2:B:2255:SER:O	2:B:2259:GLU:HG3	2.19	0.42
2:B:2297:LYS:HE3	2:B:2301:TYR:CE2	2.55	0.42
2:B:2440:MET:HB3	2:B:2444:GLN:HE22	1.84	0.42
2:B:2647:HIS:O	2:B:2651:CYS:N	2.51	0.42
2:B:2785:LEU:HB3	2:B:2787:THR:HG22	2.00	0.42
2:B:4569:LEU:HD11	2:B:4649:LEU:HD23	2.01	0.42
2:B:4753:HIS:CG	2:B:4754:ASN:H	2.37	0.42
2:I:13:PHE:O	2:I:15:ARG:NH1	2.52	0.42
2:I:475:GLN:HB2	2:I:533:ASN:HD21	1.83	0.42
2:I:494:LEU:HD23	2:I:494:LEU:HA	1.79	0.42
2:I:900:ASN:O	2:I:901:LYS:HE2	2.19	0.42
2:I:1927:LEU:HD23	2:I:1927:LEU:HA	1.87	0.42
2:I:2377:LEU:HD12	2:I:2468:GLY:HA3	2.01	0.42
2:I:2527:LEU:HG	2:I:2530:MET:HE3	2.02	0.42
2:I:2696:TYR:O	2:I:2700:MET:HG3	2.19	0.42
2:I:3219:TYR:HE1	2:I:3232:LEU:HD22	1.84	0.42
2:I:3531:ASP:N	2:I:3531:ASP:OD1	2.52	0.42
2:I:4205:TRP:CZ3	2:I:4989:MET:CE	3.03	0.42
2:A:177:GLU:HB3	2:G:2359:ARG:HH12	1.85	0.42
2:A:2093:SER:OG	2:A:2095:GLN:OE1	2.38	0.42
2:A:2297:LYS:HE3	2:A:2301:TYR:CE2	2.55	0.42
2:A:2655:TYR:HA	2:A:2667:THR:OG1	2.19	0.42
2:A:2696:TYR:O	2:A:2700:MET:HG3	2.19	0.42
2:A:2967:MET:HE3	2:A:3045:LYS:CE	2.35	0.42
2:A:4640:GLU:HB3	2:A:4641:PRO:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4865:LYS:NZ	2:A:4901:ILE:HA	2.33	0.42
2:A:4966:ASP:OD1	2:A:4967:TYR:N	2.50	0.42
2:G:842:PRO:O	2:G:1197:GLY:N	2.32	0.42
2:G:1561:VAL:HG12	2:G:1562:ILE:HG23	2.01	0.42
2:G:2291:GLN:O	2:G:2294:ASP:N	2.48	0.42
2:G:2440:MET:HB3	2:G:2444:GLN:HE22	1.84	0.42
2:G:2551:ASN:HB3	2:G:2599:GLN:NE2	2.26	0.42
2:G:2649:GLU:HG3	2:G:2705:ALA:HB2	2.01	0.42
2:G:3570:ARG:HE	2:G:3570:ARG:HB3	1.74	0.42
2:G:4753:HIS:CG	2:G:4754:ASN:H	2.37	0.42
2:B:371:VAL:HG13	2:B:373:LYS:HZ1	1.84	0.42
2:B:1228:ILE:HD12	2:B:1228:ILE:HA	1.77	0.42
2:B:2093:SER:OG	2:B:2095:GLN:OE1	2.38	0.42
2:B:2655:TYR:CE1	2:B:2675:THR:HG21	2.54	0.42
2:B:2806:ARG:NH2	2:B:2809:ILE:HG22	2.34	0.42
2:B:2964:LEU:HD21	2:B:3042:LEU:CD1	2.38	0.42
2:B:3330:ASP:OD1	2:B:3331:GLU:N	2.50	0.42
2:B:4572:ALA:O	2:B:4576:ILE:HG12	2.20	0.42
2:B:4747:SER:HA	2:B:4750:ILE:HB	2.00	0.42
2:I:29:LEU:C	2:I:31:GLU:OE1	2.58	0.42
2:I:475:GLN:CB	2:I:533:ASN:HD21	2.33	0.42
2:I:1087:ARG:NH2	2:I:1221:GLU:O	2.53	0.42
2:I:1983:ALA:C	2:I:1985:THR:H	2.22	0.42
2:I:2290:LEU:HD11	2:I:2338:ALA:HB1	2.01	0.42
2:I:2345:SER:OG	2:I:2508:ARG:NH2	2.51	0.42
2:I:2433:LEU:HD23	2:I:2433:LEU:HA	1.89	0.42
2:I:2967:MET:O	2:I:2970:SER:OG	2.30	0.42
2:I:3544:ASP:HB2	2:I:3548:GLU:OE2	2.19	0.42
2:I:4640:GLU:HB3	2:I:4641:PRO:HD3	2.00	0.42
2:A:700:GLU:H	2:A:705:ASN:HD21	1.66	0.42
2:A:1433:TYR:CD2	2:A:1578:ALA:HB2	2.53	0.42
2:A:1985:THR:C	2:A:1987:SER:H	2.23	0.42
2:A:2485:LEU:CD2	2:A:2541:PHE:CZ	3.03	0.42
2:A:2871:LEU:HD23	2:A:2874:MET:SD	2.60	0.42
2:A:3219:TYR:HE1	2:A:3232:LEU:HD22	1.84	0.42
2:A:4114:CYS:O	2:A:4131:ARG:NH2	2.52	0.42
2:A:4868:ASP:OD1	2:A:4868:ASP:N	2.50	0.42
2:A:5013:MET:HE1	2:A:5021:PHE:HB3	2.00	0.42
1:H:7:ILE:HG23	2:G:719:LEU:HD11	2.00	0.42
2:G:861:ILE:CG2	2:G:933:LEU:CD1	2.97	0.42
2:G:869:ARG:NH1	2:G:870:ILE:HB	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:927:GLU:HA	2:G:930:LYS:HD3	2.01	0.42
2:G:2490:MET:CE	2:G:2546:MET:SD	3.07	0.42
2:G:2696:TYR:O	2:G:2700:MET:HG3	2.19	0.42
2:B:227:MET:CE	2:B:389:PHE:CD2	2.97	0.42
2:B:900:ASN:O	2:B:901:LYS:HE2	2.19	0.42
2:B:946:ALA:HB2	2:B:1048:GLY:O	2.20	0.42
2:B:1983:ALA:C	2:B:1985:THR:H	2.22	0.42
2:B:2485:LEU:CD2	2:B:2541:PHE:CZ	3.03	0.42
2:B:2540:THR:OG1	2:B:2541:PHE:HD2	2.03	0.42
2:B:4061:PHE:HZ	2:B:4132:PHE:CD1	2.37	0.42
2:B:4711:PHE:HB3	2:B:4712:PRO:HD3	2.02	0.42
2:I:1595:LEU:HD12	2:I:1595:LEU:HA	1.78	0.42
2:I:2950:SER:O	2:I:2953:LYS:HG2	2.20	0.42
2:I:3203:VAL:HG13	2:I:3205:PHE:N	2.35	0.42
2:I:3414:ARG:NH1	2:I:3469:PHE:O	2.52	0.42
2:I:4061:PHE:HZ	2:I:4132:PHE:CD1	2.37	0.42
2:I:4722:ARG:NE	2:I:4748:LEU:HD11	2.35	0.42
2:A:1105:ALA:HB2	2:A:1191:VAL:HG11	2.01	0.42
2:A:1277:TRP:HB3	2:A:1559:GLN:HB3	2.01	0.42
2:A:2672:LEU:HD22	2:A:2710:LEU:HD23	2.00	0.42
2:A:2862:LEU:HD21	2:A:2931:GLN:HE21	1.83	0.42
2:A:3570:ARG:NH1	2:B:1229:ASN:OD1	2.53	0.42
2:A:3934:TYR:HA	2:A:3999:MET:CE	2.45	0.42
2:A:4688:ILE:HG21	2:A:4728:HIS:HB3	2.00	0.42
2:A:4815:ASP:HA	2:A:4818:MET:HE1	2.00	0.42
2:G:613:ALA:HB2	2:G:1676:LEU:HB2	2.00	0.42
2:G:721:LEU:HD22	2:G:768:PHE:CE2	2.55	0.42
2:G:2645:THR:HG1	2:G:2702:CYS:HG	1.54	0.42
2:G:3014:CYS:SG	2:G:3015:LEU:N	2.92	0.42
2:G:3203:VAL:HG13	2:G:3205:PHE:N	2.35	0.42
2:G:4791:TYR:CD1	2:G:4818:MET:HE3	2.44	0.42
2:B:652:ARG:NH2	2:B:750:LEU:O	2.52	0.42
2:B:829:TYR:CE1	2:B:1608:MET:HG2	2.55	0.42
2:B:870:ILE:HD12	2:B:870:ILE:HA	1.88	0.42
2:B:1087:ARG:NH2	2:B:1221:GLU:O	2.53	0.42
2:B:1561:VAL:HG12	2:B:1562:ILE:HG23	2.01	0.42
2:B:2423:MET:CE	2:B:2494:PHE:HD1	2.33	0.42
2:B:2745:VAL:HG21	2:B:2818:ALA:HA	2.01	0.42
2:B:2762:THR:HB	2:B:2805:TYR:HE2	1.84	0.42
2:B:3014:CYS:SG	2:B:3015:LEU:N	2.92	0.42
2:B:3203:VAL:HG13	2:B:3205:PHE:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4205:TRP:CZ3	2:B:4989:MET:CE	3.03	0.42
2:I:829:TYR:CE1	2:I:1608:MET:HG2	2.55	0.42
2:I:1297:PHE:CE2	2:I:1525:GLY:HA2	2.54	0.42
2:I:2696:TYR:CD2	2:I:3001:ILE:CG1	3.02	0.42
2:I:3014:CYS:SG	2:I:3015:LEU:N	2.92	0.42
2:I:3400:VAL:HG22	2:I:3403:ARG:HH11	1.84	0.42
2:I:4634:GLU:HG3	2:I:4639:MET:CG	2.46	0.42
2:A:29:LEU:C	2:A:31:GLU:OE1	2.58	0.42
2:A:900:ASN:O	2:A:901:LYS:HE2	2.19	0.42
2:A:900:ASN:HA	2:A:904:HIS:CE1	2.55	0.42
2:A:927:GLU:HA	2:A:930:LYS:HD3	2.01	0.42
2:A:1925:GLY:H	2:A:1928:GLN:HB2	1.85	0.42
2:A:1983:ALA:C	2:A:1985:THR:H	2.22	0.42
2:A:2155:LEU:CD1	2:A:2198:MET:HE3	2.43	0.42
2:A:2377:LEU:HD12	2:A:2468:GLY:HA3	2.01	0.42
2:A:2527:LEU:HG	2:A:2530:MET:HE3	2.02	0.42
2:A:3078:ARG:HG3	2:A:3155:ASP:OD2	2.20	0.42
2:A:3409:TYR:O	2:A:3412:LEU:N	2.51	0.42
2:A:3705:PHE:CB	2:A:3778:MET:SD	3.07	0.42
2:A:3836:MET:CE	2:A:3885:PHE:HE1	2.09	0.42
2:G:29:LEU:C	2:G:31:GLU:OE1	2.58	0.42
2:G:829:TYR:CE1	2:G:1608:MET:HG2	2.55	0.42
2:G:900:ASN:HA	2:G:904:HIS:CE1	2.55	0.42
2:G:1277:TRP:HB3	2:G:1559:GLN:HB3	2.01	0.42
2:G:2283:ASN:ND2	2:G:2286:LEU:HD12	2.28	0.42
2:G:2696:TYR:CD2	2:G:3001:ILE:CG1	3.02	0.42
2:G:3916:ILE:HD12	2:G:3916:ILE:H	1.85	0.42
2:B:13:PHE:O	2:B:15:ARG:NH1	2.51	0.42
2:B:657:THR:HG22	2:B:1001:VAL:HG21	2.00	0.42
2:B:2332:LEU:HD23	2:B:2429:LEU:CA	2.50	0.42
2:B:2556:LEU:HD23	2:B:2556:LEU:HA	1.87	0.42
2:B:2649:GLU:HG3	2:B:2705:ALA:HB2	2.01	0.42
2:B:2871:LEU:HD23	2:B:2874:MET:SD	2.60	0.42
2:I:657:THR:HG22	2:I:1001:VAL:HG21	2.00	0.42
2:I:2297:LYS:HE3	2:I:2301:TYR:CE2	2.55	0.42
2:I:2327:GLY:HA2	2:I:2330:ARG:HE	1.83	0.42
2:I:2440:MET:HB3	2:I:2444:GLN:HE22	1.84	0.42
2:I:2692:ASP:HB3	2:I:2695:LEU:HB3	2.02	0.42
2:I:3166:TYR:OH	2:I:3203:VAL:HG11	2.20	0.42
2:I:4182:GLU:HG2	2:I:4192:ARG:HG2	2.02	0.42
2:A:721:LEU:HD22	2:A:768:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:929:LEU:HD23	2:A:932:LEU:HD12	2.02	0.42
2:A:2277:ALA:HB1	2:A:2337:PHE:HD2	1.84	0.42
2:A:2423:MET:CE	2:A:2494:PHE:HD1	2.33	0.42
2:A:2433:LEU:HD23	2:A:2433:LEU:HA	1.89	0.42
2:A:2655:TYR:CE1	2:A:2675:THR:HG21	2.54	0.42
2:A:4636:THR:CG2	2:A:4639:MET:HE3	2.49	0.42
2:A:4934:GLY:CA	2:G:4937:ILE:HD12	2.50	0.42
2:G:165:VAL:HG13	2:G:204:PRO:HD3	2.02	0.42
2:G:946:ALA:HB2	2:G:1048:GLY:O	2.20	0.42
2:G:1925:GLY:H	2:G:1928:GLN:HB2	1.85	0.42
2:G:2377:LEU:HB2	2:G:2465:ASP:HA	2.02	0.42
2:G:2950:SER:O	2:G:2953:LYS:HG2	2.20	0.42
2:G:4001:MET:HE1	2:G:4061:PHE:HB2	2.01	0.42
2:B:721:LEU:HD22	2:B:768:PHE:CE2	2.55	0.42
2:B:1297:PHE:CE2	2:B:1525:GLY:HA2	2.54	0.42
2:B:2345:SER:HG	2:B:2508:ARG:HH22	1.68	0.42
2:B:3984:ARG:HH22	2:I:161:GLU:HA	1.84	0.42
2:B:5009:TYR:CE2	2:B:5013:MET:CE	3.03	0.42
2:I:663:TYR:CE1	2:I:745:SER:HB3	2.55	0.42
2:I:721:LEU:HD22	2:I:768:PHE:CE2	2.55	0.42
2:I:2500:ALA:CB	2:I:2553:TYR:CE1	3.03	0.42
2:I:2694:GLU:HA	2:I:2697:ARG:HB3	2.00	0.42
2:A:475:GLN:CB	2:A:533:ASN:HD21	2.33	0.42
2:A:663:TYR:CE1	2:A:745:SER:HB3	2.55	0.42
2:A:1734:TYR:HE2	2:A:2137:ALA:HB1	1.85	0.42
2:A:2762:THR:HB	2:A:2805:TYR:HE2	1.84	0.42
2:A:2806:ARG:NH2	2:A:2809:ILE:HG22	2.34	0.42
2:A:3203:VAL:HG13	2:A:3205:PHE:N	2.35	0.42
2:A:4569:LEU:HD11	2:A:4649:LEU:HD23	2.01	0.42
2:A:4634:GLU:HG3	2:A:4639:MET:CG	2.46	0.42
2:G:299:LEU:HD12	2:G:299:LEU:HA	1.81	0.42
2:G:700:GLU:H	2:G:705:ASN:HD21	1.66	0.42
2:G:929:LEU:HD23	2:G:932:LEU:HD12	2.02	0.42
2:G:1985:THR:C	2:G:1987:SER:H	2.23	0.42
2:G:2093:SER:OG	2:G:2095:GLN:OE1	2.38	0.42
2:G:3068:LEU:CG	2:G:3139:VAL:HG21	2.33	0.42
2:G:3219:TYR:HE1	2:G:3232:LEU:HD22	1.84	0.42
2:G:3417:ASP:OD1	2:G:3418:ASN:N	2.52	0.42
2:G:4205:TRP:CZ3	2:G:4989:MET:CE	3.03	0.42
2:B:227:MET:HE3	2:B:389:PHE:HD2	1.82	0.42
2:B:648:ILE:HD11	2:B:821:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:929:LEU:HD23	2:B:932:LEU:HD12	2.02	0.42
2:B:1277:TRP:HB3	2:B:1559:GLN:HB3	2.01	0.42
2:B:2277:ALA:HB1	2:B:2337:PHE:HD2	1.84	0.42
2:B:2694:GLU:HA	2:B:2697:ARG:HB3	2.00	0.42
2:B:3061:ALA:HA	2:B:3064:VAL:HG12	2.02	0.42
2:B:3409:TYR:O	2:B:3412:LEU:N	2.51	0.42
2:B:4001:MET:HE1	2:B:4061:PHE:HB2	2.02	0.42
2:B:4722:ARG:NE	2:B:4748:LEU:HD11	2.35	0.42
2:I:102:LEU:HA	2:I:162:LYS:HA	2.02	0.42
2:I:1105:ALA:HB2	2:I:1191:VAL:HG11	2.01	0.42
2:I:1277:TRP:HB3	2:I:1559:GLN:HB3	2.01	0.42
2:I:2490:MET:SD	2:I:2546:MET:SD	3.18	0.42
2:I:2547:ALA:O	2:I:2551:ASN:OD1	2.37	0.42
2:I:2762:THR:HB	2:I:2805:TYR:HE2	1.84	0.42
2:I:3290:GLU:HG3	2:I:3309:SER:N	2.35	0.42
2:I:4114:CYS:O	2:I:4131:ARG:NH2	2.52	0.42
2:I:4569:LEU:HD11	2:I:4649:LEU:HD23	2.01	0.42
2:A:121:LEU:HB2	2:A:134:ASP:O	2.20	0.42
2:A:613:ALA:HB2	2:A:1676:LEU:HB2	2.00	0.42
2:A:1561:VAL:HG12	2:A:1562:ILE:HG23	2.01	0.42
2:A:2332:LEU:HD23	2:A:2429:LEU:CA	2.50	0.42
2:A:2469:ILE:HG21	2:A:2502:MET:HE3	1.75	0.42
2:A:4154:VAL:HG12	2:A:4157:ASP:HB2	2.02	0.42
2:A:4205:TRP:CZ3	2:A:4989:MET:CE	3.03	0.42
2:A:4646:LEU:HD23	2:A:4646:LEU:HA	1.89	0.42
2:G:121:LEU:HD23	2:G:121:LEU:HA	1.88	0.42
2:G:245:VAL:HG23	2:G:376:ALA:HB3	2.02	0.42
2:G:475:GLN:CB	2:G:533:ASN:HD21	2.33	0.42
2:G:893:TYR:HB3	2:G:960:MET:HE2	2.01	0.42
2:G:1171:SER:OG	2:G:1172:ASP:N	2.53	0.42
2:G:2540:THR:OG1	2:G:2541:PHE:HD2	2.03	0.42
2:G:2694:GLU:HA	2:G:2697:ARG:HB3	2.00	0.42
2:G:2754:PHE:O	2:G:2806:ARG:NH2	2.53	0.42
2:G:3550:ARG:HD2	2:G:3597:GLN:OE1	2.20	0.42
2:G:4036:VAL:CB	2:G:5035:GLN:HG3	2.46	0.42
2:G:4114:CYS:O	2:G:4131:ARG:NH2	2.52	0.42
2:G:4572:ALA:O	2:G:4576:ILE:HG12	2.20	0.42
2:B:121:LEU:HB2	2:B:134:ASP:O	2.20	0.42
2:B:245:VAL:HG23	2:B:376:ALA:HB3	2.02	0.42
2:B:663:TYR:CE1	2:B:745:SER:HB3	2.55	0.42
2:B:861:ILE:CG2	2:B:933:LEU:HD12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:896:VAL:HG23	2:B:897:ARG:HG2	2.02	0.42
2:B:2500:ALA:CB	2:B:2553:TYR:CE1	3.03	0.42
2:B:3984:ARG:NH1	2:B:3987:ASP:OD2	2.28	0.42
2:I:2416:VAL:O	2:I:2417:HIS:HD2	2.03	0.42
2:I:3822:ASP:OD2	2:I:3823:LYS:NZ	2.40	0.42
2:I:3916:ILE:H	2:I:3916:ILE:HD12	1.85	0.42
2:I:4722:ARG:HE	2:I:4722:ARG:HB2	1.45	0.42
2:A:165:VAL:HG13	2:A:204:PRO:HD3	2.02	0.41
2:A:829:TYR:CE1	2:A:1608:MET:HG2	2.55	0.41
2:A:861:ILE:CG2	2:A:933:LEU:HD12	2.50	0.41
2:A:863:LEU:HA	2:A:864:PRO:HD3	1.91	0.41
2:A:1276:THR:O	2:A:1282:SER:OG	2.28	0.41
2:A:2244:ARG:HE	2:A:2244:ARG:HB3	1.74	0.41
2:A:2680:TRP:HH2	2:A:2959:PHE:HA	1.84	0.41
2:A:2754:PHE:O	2:A:2806:ARG:NH2	2.53	0.41
1:J:57:LYS:O	1:J:61:GLU:OE1	2.37	0.41
1:O:35:LYS:HE3	1:O:35:LYS:HB3	1.88	0.41
2:G:861:ILE:CG2	2:G:933:LEU:HD12	2.50	0.41
2:G:876:GLU:HG2	2:G:910:PHE:CE1	2.55	0.41
2:G:1082:THR:OG1	2:G:1187:GLY:HA3	2.20	0.41
2:G:2416:VAL:O	2:G:2417:HIS:HD2	2.03	0.41
2:G:2754:PHE:O	2:G:2806:ARG:NH1	2.53	0.41
2:G:3290:GLU:HG3	2:G:3309:SER:N	2.35	0.41
2:G:4722:ARG:NE	2:G:4748:LEU:HD11	2.35	0.41
2:B:2377:LEU:HB2	2:B:2465:ASP:HA	2.02	0.41
2:B:2696:TYR:CD2	2:B:3001:ILE:CG1	3.02	0.41
2:B:2994:GLU:O	2:B:2998:PHE:N	2.51	0.41
2:B:3634:ALA:O	2:B:3638:MET:HG2	2.19	0.41
2:B:4114:CYS:O	2:B:4131:ARG:NH2	2.52	0.41
2:B:4182:GLU:HG2	2:B:4192:ARG:HG2	2.02	0.41
2:B:4791:TYR:CD1	2:B:4818:MET:HE3	2.43	0.41
2:I:927:GLU:HA	2:I:930:LYS:HD3	2.02	0.41
2:I:946:ALA:HB2	2:I:1048:GLY:O	2.20	0.41
2:I:1996:ARG:HA	2:I:1996:ARG:HE	1.85	0.41
2:I:2093:SER:OG	2:I:2095:GLN:OE1	2.38	0.41
2:I:2499:LYS:HG2	2:I:2553:TYR:HH	1.77	0.41
2:I:2540:THR:OG1	2:I:2541:PHE:HD2	2.03	0.41
2:I:3570:ARG:HE	2:I:3570:ARG:HB3	1.74	0.41
2:I:4753:HIS:CG	2:I:4754:ASN:H	2.37	0.41
2:A:245:VAL:HG23	2:A:376:ALA:HB3	2.02	0.41
2:A:1082:THR:OG1	2:A:1187:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1087:ARG:NH2	2:A:1221:GLU:O	2.53	0.41
2:A:2416:VAL:O	2:A:2417:HIS:HD2	2.03	0.41
2:A:3126:GLY:O	2:A:3130:THR:HG23	2.21	0.41
2:A:3320:LEU:HD21	2:A:3361:THR:HG21	2.02	0.41
2:A:3550:ARG:HD2	2:A:3597:GLN:OE1	2.20	0.41
2:A:3673:MET:HE2	2:A:3725:TYR:HE1	1.83	0.41
2:A:4711:PHE:HB3	2:A:4712:PRO:HD3	2.02	0.41
1:J:7:ILE:HD11	1:J:73:LYS:HB2	2.01	0.41
2:G:374:LYS:HE2	2:G:374:LYS:HB2	1.83	0.41
2:G:663:TYR:CE1	2:G:745:SER:HB3	2.55	0.41
2:G:2290:LEU:HD11	2:G:2338:ALA:HB1	2.01	0.41
2:G:2346:VAL:O	2:G:2350:ALA:N	2.51	0.41
2:G:2377:LEU:HD12	2:G:2468:GLY:HA3	2.01	0.41
2:G:2423:MET:CE	2:G:2494:PHE:HD1	2.33	0.41
2:G:2465:ASP:OD1	2:G:2465:ASP:N	2.51	0.41
2:G:2500:ALA:CB	2:G:2553:TYR:CE1	3.03	0.41
2:G:2697:ARG:CA	2:G:2700:MET:HE2	2.48	0.41
2:G:2745:VAL:HG21	2:G:2818:ALA:HA	2.01	0.41
2:G:2871:LEU:HD23	2:G:2874:MET:SD	2.60	0.41
2:B:378:LEU:HD23	2:B:378:LEU:HA	1.89	0.41
2:B:900:ASN:HA	2:B:904:HIS:CE1	2.55	0.41
2:B:2490:MET:SD	2:B:2546:MET:SD	3.18	0.41
2:B:2696:TYR:O	2:B:2700:MET:HG3	2.19	0.41
2:B:3166:TYR:OH	2:B:3203:VAL:HG11	2.20	0.41
2:B:3400:VAL:HG22	2:B:3403:ARG:HH11	1.84	0.41
2:B:3916:ILE:H	2:B:3916:ILE:HD12	1.85	0.41
2:B:4563:ARG:HD2	2:B:4563:ARG:HA	1.84	0.41
2:I:1561:VAL:HG12	2:I:1562:ILE:HG23	2.01	0.41
2:I:2423:MET:CE	2:I:2494:PHE:HD1	2.33	0.41
2:I:2485:LEU:CD2	2:I:2541:PHE:CZ	3.03	0.41
2:I:3348:ARG:HA	2:I:3348:ARG:HD2	1.80	0.41
2:I:3695:PRO:HB3	2:I:3699:HIS:CD2	2.54	0.41
2:I:4001:MET:HE1	2:I:4061:PHE:HB2	2.01	0.41
2:I:4036:VAL:CB	2:I:5035:GLN:HG3	2.46	0.41
2:I:4572:ALA:O	2:I:4576:ILE:HG12	2.20	0.41
2:I:5009:TYR:CE2	2:I:5013:MET:CE	3.03	0.41
2:I:5035:GLN:HG2	2:I:5036:LEU:H	1.86	0.41
2:A:896:VAL:HG23	2:A:897:ARG:HG2	2.01	0.41
2:A:2555:CYS:HB3	2:A:2599:GLN:HG3	2.02	0.41
2:A:2692:ASP:HB3	2:A:2695:LEU:HB3	2.02	0.41
2:A:3850:GLN:HB2	2:A:3873:LYS:HZ1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:58:GLY:HA2	1:J:61:GLU:OE1	2.20	0.41
2:G:752:VAL:O	2:G:753:PRO:C	2.40	0.41
2:G:2471:SER:O	2:G:2471:SER:OG	2.34	0.41
2:G:2595:LEU:HD22	2:G:2599:GLN:NE2	2.27	0.41
2:G:2806:ARG:NH2	2:G:2809:ILE:HG22	2.34	0.41
2:G:3445:TRP:CH2	2:G:3452:LYS:CG	2.93	0.41
2:G:3514:LEU:HA	2:G:3514:LEU:HD12	1.82	0.41
2:G:4709:PRO:HD2	2:G:4772:ASP:OD1	2.20	0.41
2:G:4798:MET:HE2	2:G:4798:MET:HA	2.03	0.41
2:B:29:LEU:C	2:B:31:GLU:OE1	2.58	0.41
2:B:2809:ILE:HD13	2:B:2809:ILE:HA	1.95	0.41
2:B:3309:SER:HB2	2:B:3348:ARG:NE	2.36	0.41
2:B:3448:SER:O	2:B:3452:LYS:HE2	2.21	0.41
2:B:3633:VAL:HA	2:B:3636:PHE:CD1	2.55	0.41
2:B:4636:THR:CG2	2:B:4639:MET:HE3	2.49	0.41
2:I:129:ASP:N	2:I:129:ASP:OD1	2.53	0.41
2:I:245:VAL:HG23	2:I:376:ALA:HB3	2.02	0.41
2:I:648:ILE:HD11	2:I:821:LEU:HD13	2.02	0.41
2:I:900:ASN:HA	2:I:904:HIS:CE1	2.55	0.41
2:I:1171:SER:OG	2:I:1172:ASP:N	2.53	0.41
2:I:2003:GLN:O	2:I:2007:ASN:N	2.51	0.41
2:I:2283:ASN:ND2	2:I:2286:LEU:HD12	2.28	0.41
2:I:2291:GLN:O	2:I:2294:ASP:N	2.48	0.41
2:I:2332:LEU:HD23	2:I:2429:LEU:CA	2.50	0.41
2:I:2345:SER:HG	2:I:2508:ARG:HH22	1.68	0.41
2:I:2745:VAL:HG21	2:I:2818:ALA:HA	2.01	0.41
2:I:2754:PHE:O	2:I:2806:ARG:NH2	2.53	0.41
2:A:123:THR:OG1	2:A:124:SER:N	2.53	0.41
2:A:214:VAL:O	2:A:274:LEU:HD13	2.20	0.41
2:A:2490:MET:SD	2:A:2546:MET:SD	3.18	0.41
2:A:2540:THR:OG1	2:A:2541:PHE:HD2	2.03	0.41
2:A:4572:ALA:O	2:A:4576:ILE:HG12	2.20	0.41
2:A:4798:MET:HE2	2:A:4798:MET:HA	2.02	0.41
1:O:57:LYS:O	1:O:61:GLU:OE1	2.37	0.41
2:G:494:LEU:HA	2:G:494:LEU:HD23	1.79	0.41
2:G:721:LEU:HD23	2:G:721:LEU:HA	1.86	0.41
2:G:932:LEU:HD21	2:G:988:LEU:HD22	2.03	0.41
2:G:1734:TYR:HE2	2:G:2137:ALA:HB1	1.85	0.41
2:G:2345:SER:HG	2:G:2508:ARG:HH22	1.67	0.41
2:G:2485:LEU:CD2	2:G:2541:PHE:CZ	3.03	0.41
2:G:3611:HIS:ND1	2:G:3611:HIS:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3633:VAL:HA	2:G:3636:PHE:CD1	2.55	0.41
2:G:4118:ASP:OD1	2:G:4118:ASP:N	2.52	0.41
2:B:129:ASP:OD1	2:B:129:ASP:N	2.53	0.41
2:B:721:LEU:HD23	2:B:721:LEU:HA	1.86	0.41
2:B:2346:VAL:O	2:B:2350:ALA:N	2.51	0.41
2:B:3445:TRP:CH2	2:B:3452:LYS:CG	2.93	0.41
2:B:3771:HIS:HD2	2:B:3815:LYS:NZ	2.19	0.41
2:I:1100:MET:HA	2:I:1193:SER:O	2.21	0.41
2:I:2754:PHE:O	2:I:2806:ARG:NH1	2.53	0.41
2:I:2819:TRP:CZ2	2:I:2881:ASN:HB2	2.56	0.41
2:I:3448:SER:O	2:I:3452:LYS:HE2	2.21	0.41
2:A:932:LEU:HD21	2:A:988:LEU:HD22	2.03	0.41
2:A:946:ALA:HB2	2:A:1048:GLY:O	2.20	0.41
2:A:1000:ARG:HA	2:A:1000:ARG:HD3	1.79	0.41
2:A:2949:SER:O	2:A:2952:GLU:HG2	2.21	0.41
2:A:2950:SER:O	2:A:2953:LYS:HG2	2.20	0.41
2:A:3061:ALA:HA	2:A:3064:VAL:HG12	2.02	0.41
2:A:3771:HIS:HD2	2:A:3815:LYS:NZ	2.19	0.41
2:A:5009:TYR:CE2	2:A:5013:MET:CE	3.03	0.41
1:H:58:GLY:HA2	1:H:61:GLU:OE1	2.20	0.41
2:G:214:VAL:O	2:G:274:LEU:HD13	2.20	0.41
2:G:1087:ARG:NH2	2:G:1221:GLU:O	2.53	0.41
2:G:1996:ARG:HA	2:G:1996:ARG:HE	1.86	0.41
2:G:3197:LEU:HD23	2:G:3197:LEU:C	2.39	0.41
2:G:3395:ARG:NH1	2:G:3450:ASN:HB2	2.36	0.41
2:G:4720:VAL:O	2:G:4724:VAL:HG23	2.21	0.41
2:G:4747:SER:HA	2:G:4750:ILE:HB	2.01	0.41
2:B:475:GLN:HB2	2:B:533:ASN:HD21	1.83	0.41
2:B:494:LEU:HD23	2:B:494:LEU:HA	1.79	0.41
2:B:1925:GLY:H	2:B:1928:GLN:HB2	1.85	0.41
2:B:2098:VAL:CG2	2:B:2101:MET:HE1	2.40	0.41
2:B:3320:LEU:HD21	2:B:3361:THR:HG21	2.02	0.41
2:B:3550:ARG:HD2	2:B:3597:GLN:OE1	2.20	0.41
2:B:3570:ARG:NH1	2:I:1229:ASN:OD1	2.53	0.41
2:B:4154:VAL:HG12	2:B:4157:ASP:HB2	2.02	0.41
2:I:800:PHE:C	2:I:802:PHE:N	2.74	0.41
2:I:893:TYR:O	2:I:960:MET:HE1	2.20	0.41
2:I:2696:TYR:O	2:I:2700:MET:HE2	2.20	0.41
2:I:2700:MET:HB2	2:I:2700:MET:HE2	1.88	0.41
2:I:3320:LEU:HD21	2:I:3361:THR:HG21	2.02	0.41
2:I:3530:GLN:OE1	2:I:3534:MET:HE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3550:ARG:HD2	2:I:3597:GLN:OE1	2.20	0.41
1:F:7:ILE:HD11	1:F:73:LYS:HB2	2.01	0.41
2:A:2551:ASN:HB3	2:A:2599:GLN:NE2	2.26	0.41
2:A:4822:THR:HG21	2:B:4835:LYS:HE3	2.02	0.41
2:G:134:ASP:OD1	2:G:134:ASP:N	2.53	0.41
2:G:1186:ASP:N	2:G:1186:ASP:OD1	2.45	0.41
2:G:2595:LEU:HD23	2:G:2595:LEU:HA	1.87	0.41
2:G:2962:GLN:OE1	2:G:2966:TRP:HZ3	2.03	0.41
2:G:3126:GLY:O	2:G:3130:THR:HG23	2.21	0.41
2:G:3196:ARG:HA	2:G:3196:ARG:HD3	1.90	0.41
2:G:4791:TYR:CE1	2:G:4818:MET:HE1	2.34	0.41
2:B:800:PHE:C	2:B:802:PHE:N	2.74	0.41
2:B:800:PHE:C	2:B:802:PHE:H	2.24	0.41
2:B:1082:THR:OG1	2:B:1187:GLY:HA3	2.20	0.41
2:B:1105:ALA:HB2	2:B:1191:VAL:HG11	2.01	0.41
2:B:1171:SER:OG	2:B:1172:ASP:N	2.53	0.41
2:B:2651:CYS:O	2:B:2655:TYR:HD2	2.04	0.41
2:B:3278:CYS:CB	2:B:3345:ILE:HD11	2.51	0.41
2:B:3526:ALA:HB2	2:B:3576:TYR:CZ	2.56	0.41
2:B:3531:ASP:N	2:B:3531:ASP:OD1	2.53	0.41
2:B:4036:VAL:CB	2:B:5035:GLN:HG3	2.46	0.41
2:B:4243:PHE:O	2:B:4246:GLN:HG2	2.21	0.41
2:I:800:PHE:C	2:I:802:PHE:H	2.24	0.41
2:I:971:ASP:OD1	2:I:972:LEU:N	2.54	0.41
2:I:1000:ARG:HD3	2:I:1000:ARG:HA	1.79	0.41
2:I:2758:PHE:HA	2:I:2761:TYR:HB3	2.03	0.41
2:I:3312:LEU:HA	2:I:3312:LEU:HD23	1.89	0.41
2:I:3602:VAL:HG23	2:I:3603:LEU:HD22	2.03	0.41
2:I:4646:LEU:HD23	2:I:4646:LEU:HA	1.89	0.41
2:I:4798:MET:HA	2:I:4798:MET:HE2	2.03	0.41
2:A:650:VAL:HG21	2:A:662:TRP:CD1	2.56	0.41
2:A:800:PHE:C	2:A:802:PHE:N	2.74	0.41
2:A:971:ASP:OD1	2:A:972:LEU:N	2.54	0.41
2:A:1186:ASP:OD1	2:A:1186:ASP:N	2.45	0.41
2:A:2377:LEU:HB2	2:A:2465:ASP:HA	2.02	0.41
2:A:2994:GLU:O	2:A:2998:PHE:N	2.51	0.41
2:A:3166:TYR:OH	2:A:3203:VAL:HG11	2.20	0.41
2:A:4182:GLU:HG2	2:A:4192:ARG:HG2	2.02	0.41
2:A:4720:VAL:O	2:A:4724:VAL:HG23	2.21	0.41
2:G:227:MET:HE3	2:G:389:PHE:CD2	2.55	0.41
2:G:442:ILE:HD11	2:G:514:SER:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:800:PHE:C	2:G:802:PHE:H	2.24	0.41
2:G:910:PHE:HD2	2:G:918:ARG:HE	1.68	0.41
2:G:2297:LYS:HE3	2:G:2301:TYR:CE2	2.55	0.41
2:G:2651:CYS:O	2:G:2655:TYR:HD2	2.04	0.41
2:G:4963:ILE:HB	2:G:4968:PHE:CE2	2.55	0.41
2:B:165:VAL:HG13	2:B:204:PRO:HD3	2.02	0.41
2:B:650:VAL:HG21	2:B:662:TRP:CD1	2.56	0.41
2:B:910:PHE:HD2	2:B:918:ARG:HE	1.68	0.41
2:B:927:GLU:HA	2:B:930:LYS:HD3	2.02	0.41
2:B:2692:ASP:HB3	2:B:2695:LEU:HB3	2.02	0.41
2:B:3078:ARG:HG3	2:B:3155:ASP:OD2	2.20	0.41
2:B:4012:LEU:HD12	2:B:4012:LEU:HA	1.84	0.41
2:B:4071:ILE:O	2:B:4074:SER:OG	2.32	0.41
2:B:4634:GLU:HG3	2:B:4639:MET:CG	2.46	0.41
2:I:121:LEU:HB2	2:I:134:ASP:O	2.20	0.41
2:I:442:ILE:HD11	2:I:514:SER:HB3	2.03	0.41
2:I:929:LEU:HD23	2:I:932:LEU:HD12	2.02	0.41
2:I:932:LEU:HD21	2:I:988:LEU:HD22	2.03	0.41
2:I:2527:LEU:HA	2:I:2530:MET:HE2	2.00	0.41
2:I:2894:LEU:HG	2:I:2897:LYS:NZ	2.36	0.41
2:I:3526:ALA:HB2	2:I:3576:TYR:CZ	2.56	0.41
2:I:4709:PRO:HD2	2:I:4772:ASP:OD1	2.20	0.41
2:A:102:LEU:HA	2:A:162:LYS:HA	2.02	0.41
2:A:129:ASP:N	2:A:129:ASP:OD1	2.53	0.41
2:A:161:GLU:HA	2:G:3984:ARG:HH22	1.84	0.41
2:A:2345:SER:HG	2:A:2508:ARG:HH22	1.67	0.41
2:A:2754:PHE:O	2:A:2806:ARG:NH1	2.53	0.41
2:A:3301:PRO:HA	2:A:3302:PRO:HD3	1.95	0.41
2:A:3448:SER:O	2:A:3452:LYS:HE2	2.21	0.41
2:A:3602:VAL:HG23	2:A:3603:LEU:HD22	2.03	0.41
2:A:3802:ILE:HD11	2:A:3883:ASP:O	2.21	0.41
2:G:102:LEU:HA	2:G:162:LYS:HA	2.02	0.41
2:G:123:THR:OG1	2:G:124:SER:N	2.53	0.41
2:G:129:ASP:N	2:G:129:ASP:OD1	2.53	0.41
2:G:800:PHE:C	2:G:802:PHE:N	2.74	0.41
2:G:971:ASP:OD1	2:G:972:LEU:N	2.54	0.41
2:G:1105:ALA:HB2	2:G:1191:VAL:HG11	2.01	0.41
2:G:2490:MET:SD	2:G:2546:MET:SD	3.18	0.41
2:G:2758:PHE:HA	2:G:2761:TYR:HB3	2.03	0.41
2:G:3166:TYR:OH	2:G:3203:VAL:HG11	2.20	0.41
2:G:3376:GLU:CD	2:G:3450:ASN:HD21	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3924:LEU:O	2:G:3927:GLN:HG3	2.21	0.41
2:G:4711:PHE:HB3	2:G:4712:PRO:HD3	2.02	0.41
2:B:876:GLU:HG2	2:B:910:PHE:CE1	2.55	0.41
2:B:932:LEU:HD21	2:B:988:LEU:HD22	2.03	0.41
2:B:988:LEU:HG	2:B:1039:LEU:HD13	2.03	0.41
2:B:2675:THR:O	2:B:2678:LEU:HB3	2.21	0.41
2:B:2819:TRP:CZ2	2:B:2881:ASN:HB2	2.56	0.41
2:B:3007:ASN:HA	2:B:3070:ILE:HG21	2.03	0.41
2:B:3144:PHE:HA	2:B:3147:ILE:HG22	2.03	0.41
2:B:3376:GLU:CD	2:B:3450:ASN:HD21	2.24	0.41
2:I:896:VAL:HG23	2:I:897:ARG:HG2	2.01	0.41
2:I:1925:GLY:H	2:I:1928:GLN:HB2	1.85	0.41
2:I:2555:CYS:HB3	2:I:2599:GLN:HG3	2.02	0.41
2:I:2562:ILE:HG21	2:I:2582:MET:HE3	2.02	0.41
2:I:2871:LEU:HD23	2:I:2874:MET:SD	2.60	0.41
2:I:3531:ASP:OD1	2:I:3532:LEU:N	2.53	0.41
2:I:3633:VAL:HA	2:I:3636:PHE:CD1	2.55	0.41
2:A:664:PHE:CE1	2:A:746:CYS:HB2	2.56	0.41
2:A:876:GLU:HG2	2:A:910:PHE:CE1	2.55	0.41
2:A:988:LEU:HG	2:A:1039:LEU:HD13	2.03	0.41
2:A:1171:SER:OG	2:A:1172:ASP:N	2.53	0.41
2:A:1993:ARG:O	2:A:1996:ARG:HG2	2.21	0.41
2:A:2500:ALA:CB	2:A:2553:TYR:CE1	3.03	0.41
2:A:2595:LEU:HD22	2:A:2599:GLN:NE2	2.27	0.41
2:A:2651:CYS:HA	2:A:2661:TRP:HZ2	1.83	0.41
2:A:2651:CYS:O	2:A:2655:TYR:HD2	2.04	0.41
2:A:2745:VAL:HG21	2:A:2818:ALA:HA	2.01	0.41
2:A:2962:GLN:OE1	2:A:2966:TRP:HZ3	2.03	0.41
2:A:3007:ASN:HA	2:A:3070:ILE:HG21	2.03	0.41
2:A:3197:LEU:HD23	2:A:3197:LEU:C	2.39	0.41
2:A:3278:CYS:CB	2:A:3345:ILE:HD11	2.51	0.41
2:A:3290:GLU:HG3	2:A:3309:SER:N	2.35	0.41
2:A:3395:ARG:NH1	2:A:3450:ASN:HB2	2.36	0.41
2:A:3400:VAL:HG22	2:A:3403:ARG:HH11	1.84	0.41
2:A:3854:GLU:OE2	2:A:3946:GLN:OE1	2.39	0.41
2:A:3916:ILE:H	2:A:3916:ILE:HD12	1.85	0.41
2:A:3930:ILE:HG22	2:A:3995:VAL:HG11	2.03	0.41
2:A:4001:MET:HE1	2:A:4061:PHE:HB2	2.02	0.41
2:A:4673:ARG:HA	2:A:4676:GLU:HG2	2.03	0.41
1:O:58:GLY:HA2	1:O:61:GLU:OE1	2.20	0.41
2:G:664:PHE:CE1	2:G:746:CYS:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:887:ILE:CG2	2:G:958:THR:HA	2.51	0.41
2:G:1993:ARG:O	2:G:1996:ARG:HG2	2.21	0.41
2:G:2003:GLN:O	2:G:2007:ASN:N	2.51	0.41
2:G:2098:VAL:CB	2:G:2101:MET:HE2	2.51	0.41
2:G:2555:CYS:HB3	2:G:2599:GLN:HG3	2.02	0.41
2:G:2556:LEU:HD23	2:G:2556:LEU:HA	1.87	0.41
2:G:2692:ASP:HB3	2:G:2695:LEU:HB3	2.02	0.41
2:G:2819:TRP:CZ2	2:G:2881:ASN:HB2	2.56	0.41
2:G:2949:SER:O	2:G:2952:GLU:HG2	2.21	0.41
2:G:3144:PHE:HA	2:G:3147:ILE:HG22	2.03	0.41
2:G:3243:ILE:HA	2:G:3244:PRO:HD3	1.95	0.41
2:G:3448:SER:O	2:G:3452:LYS:HE2	2.21	0.41
2:G:3531:ASP:OD1	2:G:3531:ASP:N	2.53	0.41
2:G:3854:GLU:OE2	2:G:3946:GLN:OE1	2.39	0.41
2:G:3980:LEU:HD23	2:G:3980:LEU:HA	1.77	0.41
2:G:4007:SER:HB3	2:G:4116:GLU:CD	2.42	0.41
2:G:4243:PHE:O	2:G:4246:GLN:HG2	2.21	0.41
2:G:5009:TYR:CE2	2:G:5013:MET:CE	3.03	0.41
2:B:20:VAL:HG21	2:B:202:MET:HE2	2.01	0.41
2:B:102:LEU:HA	2:B:162:LYS:HA	2.02	0.41
2:B:468:LEU:O	2:B:472:ARG:HG2	2.21	0.41
2:B:486:LEU:HD12	2:B:486:LEU:HA	1.93	0.41
2:B:924:MET:CE	2:B:924:MET:CA	2.95	0.41
2:B:971:ASP:OD1	2:B:972:LEU:N	2.54	0.41
2:B:1927:LEU:HD23	2:B:1927:LEU:HA	1.87	0.41
2:B:2471:SER:O	2:B:2471:SER:OG	2.34	0.41
2:B:2555:CYS:HB3	2:B:2599:GLN:HG3	2.02	0.41
2:B:2638:LYS:HD2	2:B:2638:LYS:HA	1.96	0.41
2:B:2754:PHE:O	2:B:2806:ARG:NH1	2.53	0.41
2:B:2758:PHE:HA	2:B:2761:TYR:HB3	2.03	0.41
2:B:2816:MET:CE	2:B:2878:LEU:HD13	2.51	0.41
2:B:2949:SER:O	2:B:2952:GLU:HG2	2.21	0.41
2:B:2962:GLN:OE1	2:B:2966:TRP:HZ3	2.03	0.41
2:B:3602:VAL:HG23	2:B:3603:LEU:HD22	2.03	0.41
2:B:3611:HIS:ND1	2:B:3611:HIS:O	2.54	0.41
2:B:5035:GLN:HG2	2:B:5036:LEU:H	1.86	0.41
2:I:123:THR:OG1	2:I:124:SER:N	2.53	0.41
2:I:165:VAL:HG13	2:I:204:PRO:HD3	2.02	0.41
2:I:738:LEU:HD23	2:I:738:LEU:HA	1.83	0.41
2:I:928:THR:O	2:I:932:LEU:HG	2.21	0.41
2:I:1082:THR:OG1	2:I:1187:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1228:ILE:HD12	2:I:1228:ILE:HA	1.77	0.41
2:I:1985:THR:C	2:I:1987:SER:H	2.23	0.41
2:I:1993:ARG:O	2:I:1996:ARG:HG2	2.21	0.41
2:I:2551:ASN:HB3	2:I:2599:GLN:NE2	2.26	0.41
2:I:3078:ARG:HG3	2:I:3155:ASP:OD2	2.20	0.41
2:I:3126:GLY:O	2:I:3130:THR:HG23	2.21	0.41
2:I:3144:PHE:HA	2:I:3147:ILE:HG22	2.03	0.41
2:I:3611:HIS:O	2:I:3611:HIS:ND1	2.54	0.41
2:I:3802:ILE:HD11	2:I:3883:ASP:O	2.21	0.41
2:I:3924:LEU:O	2:I:3927:GLN:HG3	2.21	0.41
2:I:4673:ARG:HA	2:I:4676:GLU:HG2	2.03	0.41
2:I:4711:PHE:HB3	2:I:4712:PRO:HD3	2.02	0.41
2:I:4720:VAL:O	2:I:4724:VAL:HG23	2.21	0.41
2:A:595:ARG:NH1	2:A:631:LEU:O	2.54	0.41
2:A:3526:ALA:HB2	2:A:3576:TYR:CZ	2.56	0.41
2:A:3531:ASP:N	2:A:3531:ASP:OD1	2.53	0.41
2:A:3611:HIS:ND1	2:A:3611:HIS:O	2.54	0.41
2:A:3986:TRP:CZ3	2:A:4044:MET:HG2	2.56	0.41
2:A:4722:ARG:NE	2:A:4748:LEU:HD11	2.35	0.41
2:A:4951:LYS:HG3	2:A:4952:GLU:N	2.36	0.41
1:H:77:THR:OG1	1:H:78:PRO:HD2	2.21	0.41
2:G:121:LEU:HB2	2:G:134:ASP:O	2.20	0.41
2:G:451:TYR:O	2:G:474:ARG:NH1	2.50	0.41
2:G:988:LEU:HG	2:G:1039:LEU:HD13	2.03	0.41
2:G:2332:LEU:HD23	2:G:2429:LEU:CA	2.50	0.41
2:G:2369:ARG:HA	2:G:2369:ARG:HE	1.84	0.41
2:G:2894:LEU:HG	2:G:2897:LYS:NZ	2.36	0.41
2:G:3530:GLN:OE1	2:G:3534:MET:HE2	2.20	0.41
2:B:178:ARG:HD3	2:B:193:ALA:O	2.21	0.41
2:B:1734:TYR:HE2	2:B:2137:ALA:HB1	1.85	0.41
2:B:2312:MET:O	2:B:2316:LYS:HG2	2.21	0.41
2:B:2894:LEU:CG	2:B:2897:LYS:HZ1	2.34	0.41
2:B:3126:GLY:O	2:B:3130:THR:HG23	2.21	0.41
2:B:3147:ILE:HD11	2:B:3156:VAL:HB	2.03	0.41
2:B:3327:LEU:CG	2:B:3368:ARG:NH2	2.84	0.41
2:B:3442:PHE:HE1	2:B:3511:VAL:HG12	1.86	0.41
2:B:4798:MET:HE2	2:B:4798:MET:HA	2.02	0.41
2:B:4951:LYS:HG3	2:B:4952:GLU:N	2.36	0.41
2:I:49:LEU:HD23	2:I:49:LEU:HA	1.87	0.41
2:I:2377:LEU:HB2	2:I:2465:ASP:HA	2.02	0.41
2:I:2894:LEU:CB	2:I:2897:LYS:HZ1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3147:ILE:HD11	2:I:3156:VAL:HB	2.03	0.41
2:I:3278:CYS:CB	2:I:3345:ILE:HD11	2.51	0.41
2:I:3442:PHE:HE1	2:I:3511:VAL:HG12	1.86	0.41
2:I:4007:SER:HB3	2:I:4116:GLU:CD	2.42	0.41
2:I:4243:PHE:O	2:I:4246:GLN:HG2	2.21	0.41
2:A:648:ILE:HD11	2:A:821:LEU:HD13	2.02	0.40
2:A:2675:THR:O	2:A:2678:LEU:HB3	2.21	0.40
2:A:3312:LEU:CD1	2:A:3348:ARG:HG2	2.49	0.40
2:A:3442:PHE:HE1	2:A:3511:VAL:HG12	1.86	0.40
2:A:3633:VAL:HA	2:A:3636:PHE:CD1	2.55	0.40
2:A:4034:ASN:OD1	2:A:4038:GLY:HA3	2.21	0.40
2:A:4243:PHE:O	2:A:4246:GLN:HG2	2.21	0.40
2:G:896:VAL:HG23	2:G:897:ARG:HG2	2.02	0.40
2:G:1100:MET:HA	2:G:1193:SER:O	2.21	0.40
2:G:3061:ALA:HA	2:G:3064:VAL:HG12	2.02	0.40
2:G:3140:LEU:HA	2:G:3140:LEU:HD12	1.80	0.40
2:G:3278:CYS:CB	2:G:3345:ILE:HD11	2.51	0.40
2:G:3442:PHE:HE1	2:G:3511:VAL:HG12	1.86	0.40
2:G:3802:ILE:HD11	2:G:3883:ASP:O	2.21	0.40
2:G:4182:GLU:HG2	2:G:4192:ARG:HG2	2.02	0.40
2:G:4677:LEU:O	2:G:4677:LEU:CD1	2.69	0.40
2:B:1100:MET:HA	2:B:1193:SER:O	2.21	0.40
2:B:1996:ARG:HA	2:B:1996:ARG:HE	1.86	0.40
2:B:2527:LEU:HG	2:B:2530:MET:HE3	2.03	0.40
2:B:4036:VAL:CG1	2:B:5035:GLN:HG3	2.51	0.40
2:B:4176:PRO:O	2:B:4202:ARG:NE	2.54	0.40
2:I:152:PRO:HB3	2:I:157:ARG:HB2	2.03	0.40
2:I:652:ARG:NH2	2:I:750:LEU:O	2.52	0.40
2:I:887:ILE:CG2	2:I:958:THR:HA	2.51	0.40
2:I:1694:LEU:O	2:I:1698:LEU:HG	2.22	0.40
2:I:2962:GLN:OE1	2:I:2966:TRP:HZ3	2.03	0.40
2:I:3327:LEU:CG	2:I:3368:ARG:NH2	2.84	0.40
2:I:4154:VAL:HG12	2:I:4157:ASP:HB2	2.02	0.40
2:I:4963:ILE:HB	2:I:4968:PHE:CE2	2.55	0.40
2:I:5013:MET:HE1	2:I:5021:PHE:HB3	1.99	0.40
1:F:2:VAL:HG12	1:F:61:GLU:CG	2.52	0.40
1:F:53:GLN:OE1	1:F:53:GLN:N	2.55	0.40
1:F:77:THR:OG1	1:F:78:PRO:HD2	2.21	0.40
2:A:928:THR:O	2:A:932:LEU:HG	2.21	0.40
2:A:2499:LYS:HG2	2:A:2553:TYR:HH	1.76	0.40
2:A:3270:ILE:HA	2:A:3274:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3327:LEU:CG	2:A:3368:ARG:NH2	2.84	0.40
2:A:3537:LYS:HZ1	2:A:3603:LEU:HB2	1.86	0.40
2:A:3544:ASP:OD2	2:A:3549:VAL:HG22	2.21	0.40
2:A:4036:VAL:CB	2:A:5035:GLN:HG3	2.46	0.40
1:J:53:GLN:OE1	1:J:53:GLN:N	2.55	0.40
2:G:69:LEU:HD21	2:G:202:MET:HE2	1.99	0.40
2:G:2345:SER:OG	2:G:2508:ARG:NH2	2.51	0.40
2:G:2820:GLU:HB3	2:G:2937:VAL:HG21	2.04	0.40
2:G:3320:LEU:HD21	2:G:3361:THR:HG21	2.02	0.40
2:G:3673:MET:HE2	2:G:3725:TYR:HE1	1.85	0.40
2:G:3858:MET:HE3	2:G:3865:VAL:HB	2.03	0.40
2:G:3986:TRP:CZ3	2:G:4044:MET:HG2	2.56	0.40
2:G:4154:VAL:HG12	2:G:4157:ASP:HB2	2.02	0.40
2:G:4683:PHE:HE2	2:G:5017:ARG:HG3	1.87	0.40
2:G:4791:TYR:HE1	2:G:4818:MET:HE1	1.77	0.40
2:B:59:PRO:HD3	2:B:307:ALA:HB3	2.04	0.40
2:B:928:THR:O	2:B:932:LEU:HG	2.21	0.40
2:B:2575:ARG:NH1	2:B:2578:MET:SD	2.76	0.40
2:B:2754:PHE:O	2:B:2806:ARG:NH2	2.53	0.40
2:B:4673:ARG:HA	2:B:4676:GLU:HG2	2.03	0.40
2:I:33:LEU:HD23	2:I:33:LEU:H	1.87	0.40
2:I:595:ARG:NH1	2:I:631:LEU:O	2.54	0.40
2:I:664:PHE:CE1	2:I:746:CYS:HB2	2.56	0.40
2:I:863:LEU:HA	2:I:864:PRO:HD3	1.91	0.40
2:I:2651:CYS:O	2:I:2655:TYR:HD2	2.04	0.40
2:I:2820:GLU:HB3	2:I:2937:VAL:HG21	2.03	0.40
2:I:3567:PRO:O	2:I:3570:ARG:HB3	2.22	0.40
2:I:3634:ALA:HA	2:I:3637:ARG:CD	2.52	0.40
2:A:800:PHE:C	2:A:802:PHE:H	2.24	0.40
2:A:887:ILE:CG2	2:A:958:THR:HA	2.51	0.40
2:A:943:ASP:OD2	2:A:944:GLU:N	2.39	0.40
2:A:1927:LEU:HD23	2:A:1927:LEU:HA	1.87	0.40
2:A:2676:ARG:HE	2:A:2676:ARG:HB2	1.56	0.40
2:A:3144:PHE:HA	2:A:3147:ILE:HG22	2.03	0.40
2:A:3825:GLU:OE1	2:A:3825:GLU:N	2.41	0.40
1:H:53:GLN:OE1	1:H:53:GLN:N	2.55	0.40
2:G:33:LEU:H	2:G:33:LEU:HD23	1.87	0.40
2:G:1115:LEU:HD21	2:G:1191:VAL:HG22	2.03	0.40
2:G:2312:MET:O	2:G:2316:LYS:HG2	2.21	0.40
2:G:3147:ILE:HD11	2:G:3156:VAL:HB	2.03	0.40
2:G:3327:LEU:CG	2:G:3368:ARG:NH2	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4563:ARG:HD2	2:G:4563:ARG:HA	1.84	0.40
2:B:33:LEU:H	2:B:33:LEU:HD23	1.87	0.40
2:B:123:THR:OG1	2:B:124:SER:N	2.53	0.40
2:B:2416:VAL:O	2:B:2417:HIS:HD2	2.03	0.40
2:B:2623:LEU:O	2:B:2624:ARG:C	2.60	0.40
2:B:3544:ASP:OD2	2:B:3549:VAL:HG22	2.21	0.40
2:I:650:VAL:HG21	2:I:662:TRP:CD1	2.56	0.40
2:I:1734:TYR:HE2	2:I:2137:ALA:HB1	1.85	0.40
2:I:2212:VAL:HG13	2:I:2256:TYR:OH	2.21	0.40
2:I:2312:MET:O	2:I:2316:LYS:HG2	2.21	0.40
2:I:2675:THR:O	2:I:2678:LEU:HB3	2.21	0.40
2:I:3544:ASP:OD2	2:I:3549:VAL:HG22	2.21	0.40
2:I:3984:ARG:HE	2:I:3984:ARG:HB2	1.52	0.40
2:I:4791:TYR:CE1	2:I:4818:MET:HE2	1.95	0.40
2:A:59:PRO:HD3	2:A:307:ALA:HB3	2.04	0.40
2:A:378:LEU:HA	2:A:378:LEU:HD23	1.89	0.40
2:A:442:ILE:HD11	2:A:514:SER:HB3	2.03	0.40
2:A:1566:LEU:O	2:A:1589:PRO:HB3	2.22	0.40
2:A:1842:LEU:HD23	2:A:1842:LEU:HA	1.93	0.40
2:A:3147:ILE:HD11	2:A:3156:VAL:HB	2.03	0.40
2:A:3783:ILE:HG13	2:A:3797:THR:HG21	2.03	0.40
2:A:4036:VAL:CG1	2:A:5035:GLN:HG3	2.51	0.40
1:O:53:GLN:N	1:O:53:GLN:OE1	2.55	0.40
2:G:178:ARG:HD3	2:G:193:ALA:O	2.21	0.40
2:G:648:ILE:HD11	2:G:821:LEU:HD13	2.02	0.40
2:G:1566:LEU:O	2:G:1589:PRO:HB3	2.22	0.40
2:G:1568:LYS:HB2	2:G:1572:ILE:O	2.22	0.40
2:G:1694:LEU:O	2:G:1698:LEU:HG	2.22	0.40
2:G:2651:CYS:HA	2:G:2661:TRP:HZ2	1.83	0.40
2:G:2675:THR:O	2:G:2678:LEU:HB3	2.21	0.40
2:G:3106:MET:HE3	2:G:3182:TYR:HE2	1.86	0.40
2:G:3312:LEU:CD1	2:G:3348:ARG:HG2	2.49	0.40
2:G:3526:ALA:HB2	2:G:3576:TYR:CZ	2.56	0.40
2:G:3771:HIS:HD2	2:G:3815:LYS:NZ	2.18	0.40
2:G:4036:VAL:CG1	2:G:5035:GLN:HG3	2.51	0.40
2:G:4673:ARG:HA	2:G:4676:GLU:HG2	2.03	0.40
2:G:4744:ASP:OD1	2:G:4745:LEU:N	2.55	0.40
2:G:4835:LYS:HE3	2:I:4822:THR:HG21	2.02	0.40
2:B:442:ILE:HD11	2:B:514:SER:HB3	2.03	0.40
2:B:2383:ALA:HA	2:B:2386:ILE:HG22	2.04	0.40
2:B:3802:ILE:HD11	2:B:3883:ASP:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3924:LEU:O	2:B:3927:GLN:HG3	2.21	0.40
2:B:3927:GLN:HG2	2:B:3988:ALA:HA	2.04	0.40
2:B:4034:ASN:OD1	2:B:4038:GLY:HA3	2.21	0.40
2:B:4744:ASP:OD1	2:B:4745:LEU:N	2.55	0.40
2:I:214:VAL:O	2:I:274:LEU:HD13	2.20	0.40
2:I:876:GLU:HG2	2:I:910:PHE:CE1	2.55	0.40
2:I:988:LEU:HG	2:I:1039:LEU:HD13	2.03	0.40
2:I:3313:ASN:OD1	2:I:3350:ARG:N	2.37	0.40
2:I:3927:GLN:HG2	2:I:3988:ALA:HA	2.04	0.40
2:I:4034:ASN:OD1	2:I:4038:GLY:HA3	2.21	0.40
2:I:4036:VAL:CG1	2:I:5035:GLN:HG3	2.51	0.40
2:I:4744:ASP:OD1	2:I:4745:LEU:N	2.55	0.40
2:A:50:GLU:HA	2:A:51:PRO:HD3	1.90	0.40
2:A:509:GLU:O	2:A:513:GLU:HG2	2.22	0.40
2:A:870:ILE:HD12	2:A:870:ILE:HA	1.88	0.40
2:A:1110:ARG:HB2	2:A:1113:VAL:HG22	2.04	0.40
2:A:2258:LEU:HD23	2:A:2258:LEU:HA	1.82	0.40
2:A:2819:TRP:CZ2	2:A:2881:ASN:HB2	2.56	0.40
2:A:3183:VAL:O	2:A:3187:ARG:HG2	2.22	0.40
2:A:3327:LEU:HB2	2:A:3368:ARG:NH2	2.37	0.40
2:A:3924:LEU:O	2:A:3927:GLN:HG3	2.21	0.40
2:A:3927:GLN:HG2	2:A:3988:ALA:HA	2.04	0.40
2:G:127:MET:HG2	2:G:128:THR:N	2.37	0.40
2:G:152:PRO:HB3	2:G:157:ARG:HB2	2.04	0.40
2:G:468:LEU:O	2:G:472:ARG:HG2	2.21	0.40
2:G:595:ARG:NH1	2:G:631:LEU:O	2.54	0.40
2:G:650:VAL:HG21	2:G:662:TRP:CD1	2.56	0.40
2:G:893:TYR:HB3	2:G:960:MET:HE1	2.03	0.40
2:G:1942:LEU:HD23	2:G:1942:LEU:HA	1.92	0.40
2:G:2383:ALA:HA	2:G:2386:ILE:HG22	2.04	0.40
2:G:3567:PRO:O	2:G:3570:ARG:HB3	2.22	0.40
2:G:4951:LYS:HG3	2:G:4952:GLU:N	2.36	0.40
2:B:509:GLU:O	2:B:513:GLU:HG2	2.22	0.40
2:B:1110:ARG:HB2	2:B:1113:VAL:HG22	2.04	0.40
2:B:1251:GLU:OE1	2:B:1251:GLU:N	2.53	0.40
2:B:3567:PRO:O	2:B:3570:ARG:HB3	2.22	0.40
2:B:4705:VAL:HG23	2:B:4775:TYR:HD1	1.87	0.40
2:B:4720:VAL:O	2:B:4724:VAL:HG23	2.21	0.40
2:I:861:ILE:CG2	2:I:933:LEU:HD12	2.50	0.40
2:I:1480:GLN:N	2:I:1480:GLN:CD	2.75	0.40
2:I:2656:CYS:SG	2:I:2657:LEU:HG	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2949:SER:O	2:I:2952:GLU:HG2	2.21	0.40
2:I:3007:ASN:HA	2:I:3070:ILE:HG21	2.03	0.40
2:I:3771:HIS:HD2	2:I:3815:LYS:NZ	2.19	0.40
2:I:3783:ILE:HG13	2:I:3797:THR:HG21	2.03	0.40
2:I:4563:ARG:HD2	2:I:4563:ARG:HA	1.84	0.40
2:I:4976:GLU:OE1	2:I:4976:GLU:N	2.45	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	F	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	H	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	J	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	O	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
2	A	4260/5037 (85%)	4079 (96%)	179 (4%)	2 (0%)	100	100
2	B	4260/5037 (85%)	4078 (96%)	180 (4%)	2 (0%)	100	100
2	G	4260/5037 (85%)	4080 (96%)	178 (4%)	2 (0%)	100	100
2	I	4260/5037 (85%)	4079 (96%)	179 (4%)	2 (0%)	100	100
All	All	17460/20580 (85%)	16720 (96%)	732 (4%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	801	LYS
2	G	801	LYS
2	B	801	LYS
2	I	801	LYS

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Mol	Chain	Res	Type
2	A	3267	PRO
2	G	3267	PRO
2	B	3267	PRO
2	I	3267	PRO

5.3.2 Protein sidechains [i](#)

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	F	88/89 (99%)	78 (89%)	10 (11%)	5	22
1	H	88/89 (99%)	78 (89%)	10 (11%)	5	22
1	J	88/89 (99%)	78 (89%)	10 (11%)	5	22
1	O	88/89 (99%)	78 (89%)	10 (11%)	5	22
2	A	3738/4276 (87%)	3713 (99%)	25 (1%)	84	92
2	B	3738/4276 (87%)	3713 (99%)	25 (1%)	84	92
2	G	3738/4276 (87%)	3713 (99%)	25 (1%)	84	92
2	I	3738/4276 (87%)	3713 (99%)	25 (1%)	84	92
All	All	15304/17460 (88%)	15164 (99%)	140 (1%)	79	89

All (140) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	18	LYS
1	F	23	VAL
1	F	24	VAL
1	F	25	HIS
1	F	38	SER
1	F	39	SER
1	F	43	ASN
1	F	44	LYS
1	F	105	ASN
1	F	107	GLU
2	A	751	SER

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Mol	Chain	Res	Type
2	A	754	SER
2	A	830	ARG
2	A	838	HIS
2	A	1128	ARG
2	A	1203	ASN
2	A	1646	ARG
2	A	1982	ARG
2	A	2939	ARG
2	A	3051	ARG
2	A	3637	ARG
2	A	3715	LYS
2	A	3892	CYS
2	A	3893	GLU
2	A	4025	VAL
2	A	4031	LEU
2	A	4233	LEU
2	A	4237	PHE
2	A	4239	GLU
2	A	4672	LYS
2	A	4680	LYS
2	A	4713	SER
2	A	4716	TRP
2	A	4717	ASP
2	A	5016	GLU
1	H	18	LYS
1	H	23	VAL
1	H	24	VAL
1	H	25	HIS
1	H	38	SER
1	H	39	SER
1	H	43	ASN
1	H	44	LYS
1	H	105	ASN
1	H	107	GLU
1	J	18	LYS
1	J	23	VAL
1	J	24	VAL
1	J	25	HIS
1	J	38	SER
1	J	39	SER
1	J	43	ASN
1	J	44	LYS

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Mol	Chain	Res	Type
1	J	105	ASN
1	J	107	GLU
1	O	18	LYS
1	O	23	VAL
1	O	24	VAL
1	O	25	HIS
1	O	38	SER
1	O	39	SER
1	O	43	ASN
1	O	44	LYS
1	O	105	ASN
1	O	107	GLU
2	G	751	SER
2	G	754	SER
2	G	830	ARG
2	G	838	HIS
2	G	1128	ARG
2	G	1203	ASN
2	G	1646	ARG
2	G	1982	ARG
2	G	2939	ARG
2	G	3051	ARG
2	G	3637	ARG
2	G	3715	LYS
2	G	3892	CYS
2	G	3893	GLU
2	G	4025	VAL
2	G	4031	LEU
2	G	4233	LEU
2	G	4237	PHE
2	G	4239	GLU
2	G	4672	LYS
2	G	4680	LYS
2	G	4713	SER
2	G	4716	TRP
2	G	4717	ASP
2	G	5016	GLU
2	B	751	SER
2	B	754	SER
2	B	830	ARG
2	B	838	HIS
2	B	1128	ARG

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Mol	Chain	Res	Type
2	B	1203	ASN
2	B	1646	ARG
2	B	1982	ARG
2	B	2939	ARG
2	B	3051	ARG
2	B	3637	ARG
2	B	3715	LYS
2	B	3892	CYS
2	B	3893	GLU
2	B	4025	VAL
2	B	4031	LEU
2	B	4233	LEU
2	B	4237	PHE
2	B	4239	GLU
2	B	4672	LYS
2	B	4680	LYS
2	B	4713	SER
2	B	4716	TRP
2	B	4717	ASP
2	B	5016	GLU
2	I	751	SER
2	I	754	SER
2	I	830	ARG
2	I	838	HIS
2	I	1128	ARG
2	I	1203	ASN
2	I	1646	ARG
2	I	1982	ARG
2	I	2939	ARG
2	I	3051	ARG
2	I	3637	ARG
2	I	3715	LYS
2	I	3892	CYS
2	I	3893	GLU
2	I	4025	VAL
2	I	4031	LEU
2	I	4233	LEU
2	I	4237	PHE
2	I	4239	GLU
2	I	4672	LYS
2	I	4680	LYS
2	I	4713	SER

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Mol	Chain	Res	Type
2	I	4716	TRP
2	I	4717	ASP
2	I	5016	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	31	GLN
2	A	479	GLN
2	A	533	ASN
2	A	705	ASN
2	A	877	ASN
2	A	2127	GLN
2	A	2283	ASN
2	A	2444	GLN
2	A	2599	GLN
2	A	2788	HIS
2	A	2881	ASN
2	A	3052	HIS
2	A	3771	HIS
2	A	3946	GLN
2	A	4078	GLN
2	A	4650	HIS
2	A	4978	HIS
1	H	31	GLN
1	J	31	GLN
1	O	31	GLN
2	G	479	GLN
2	G	533	ASN
2	G	705	ASN
2	G	877	ASN
2	G	2127	GLN
2	G	2283	ASN
2	G	2444	GLN
2	G	2599	GLN
2	G	2788	HIS
2	G	2881	ASN
2	G	2931	GLN
2	G	3052	HIS
2	G	3771	HIS
2	G	3946	GLN
2	G	4078	GLN

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Mol	Chain	Res	Type
2	G	4650	HIS
2	G	4978	HIS
2	B	479	GLN
2	B	533	ASN
2	B	705	ASN
2	B	877	ASN
2	B	1203	ASN
2	B	2127	GLN
2	B	2444	GLN
2	B	2599	GLN
2	B	2788	HIS
2	B	2881	ASN
2	B	3052	HIS
2	B	3771	HIS
2	B	3946	GLN
2	B	4078	GLN
2	B	4650	HIS
2	B	4978	HIS
2	I	479	GLN
2	I	533	ASN
2	I	705	ASN
2	I	877	ASN
2	I	2127	GLN
2	I	2283	ASN
2	I	2324	ASN
2	I	2444	GLN
2	I	2599	GLN
2	I	2788	HIS
2	I	2881	ASN
2	I	2931	GLN
2	I	3052	HIS
2	I	3771	HIS
2	I	3946	GLN
2	I	4078	GLN
2	I	4650	HIS
2	I	4978	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	CFF	A	5304	-	8,15,15	2.29	2 (25%)	8,23,23	1.16	1 (12%)
3	ATP	A	5301	2	26,33,33	0.86	1 (3%)	31,52,52	1.60	5 (16%)
3	ATP	G	5301	2	26,33,33	0.86	1 (3%)	31,52,52	1.60	5 (16%)
3	ATP	I	5301	2	26,33,33	0.86	1 (3%)	31,52,52	1.60	5 (16%)
6	CFF	B	5304	-	8,15,15	2.29	2 (25%)	8,23,23	1.16	1 (12%)
3	ATP	B	5301	2	26,33,33	0.87	1 (3%)	31,52,52	1.60	5 (16%)
6	CFF	G	5304	-	8,15,15	2.29	2 (25%)	8,23,23	1.15	1 (12%)
6	CFF	I	5304	-	8,15,15	2.28	2 (25%)	8,23,23	1.15	1 (12%)

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	CFF	A	5304	-	-	-	0/2/2/2
3	ATP	A	5301	2	-	3/18/38/38	0/3/3/3
3	ATP	G	5301	2	-	3/18/38/38	0/3/3/3
3	ATP	I	5301	2	-	3/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	CFF	B	5304	-	-	-	0/2/2/2
3	ATP	B	5301	2	-	3/18/38/38	0/3/3/3
6	CFF	G	5304	-	-	-	0/2/2/2
6	CFF	I	5304	-	-	-	0/2/2/2

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	5304	CFF	C5-C4	4.36	1.45	1.39
6	G	5304	CFF	C5-C4	4.36	1.45	1.39
6	B	5304	CFF	C5-C4	4.36	1.45	1.39
6	I	5304	CFF	C5-C4	4.36	1.45	1.39
6	G	5304	CFF	C5-C6	4.33	1.48	1.41
6	A	5304	CFF	C5-C6	4.33	1.48	1.41
6	B	5304	CFF	C5-C6	4.33	1.48	1.41
6	I	5304	CFF	C5-C6	4.29	1.48	1.41
3	I	5301	ATP	C5-C4	2.11	1.46	1.40
3	A	5301	ATP	C5-C4	2.10	1.46	1.40
3	G	5301	ATP	C5-C4	2.09	1.46	1.40
3	B	5301	ATP	C5-C4	2.09	1.46	1.40

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	5301	ATP	PA-O3A-PB	-4.22	118.35	132.83
3	A	5301	ATP	PA-O3A-PB	-4.21	118.38	132.83
3	B	5301	ATP	PA-O3A-PB	-4.21	118.38	132.83
3	G	5301	ATP	PA-O3A-PB	-4.21	118.39	132.83
3	G	5301	ATP	PB-O3B-PG	-3.58	120.56	132.83
3	B	5301	ATP	PB-O3B-PG	-3.57	120.56	132.83
3	A	5301	ATP	PB-O3B-PG	-3.57	120.57	132.83
3	I	5301	ATP	PB-O3B-PG	-3.57	120.58	132.83
3	G	5301	ATP	N3-C2-N1	-3.25	123.59	128.68
3	B	5301	ATP	N3-C2-N1	-3.25	123.59	128.68
3	A	5301	ATP	N3-C2-N1	-3.25	123.59	128.68
3	I	5301	ATP	N3-C2-N1	-3.23	123.63	128.68
3	B	5301	ATP	C3'-C2'-C1'	2.70	105.05	100.98
3	A	5301	ATP	C3'-C2'-C1'	2.68	105.02	100.98
3	I	5301	ATP	C3'-C2'-C1'	2.68	105.02	100.98
3	G	5301	ATP	C3'-C2'-C1'	2.66	104.99	100.98
3	B	5301	ATP	C4-C5-N7	-2.45	106.85	109.40
3	A	5301	ATP	C4-C5-N7	-2.44	106.85	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	5301	ATP	C4-C5-N7	-2.42	106.88	109.40
3	G	5301	ATP	C4-C5-N7	-2.42	106.88	109.40
6	G	5304	CFE	C5-C6-N1	-2.18	115.87	118.20
6	A	5304	CFE	C5-C6-N1	-2.12	115.94	118.20
6	B	5304	CFE	C5-C6-N1	-2.12	115.94	118.20
6	I	5304	CFE	C5-C6-N1	-2.08	115.98	118.20

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O3A
3	G	5301	ATP	C5'-O5'-PA-O3A
3	B	5301	ATP	C5'-O5'-PA-O3A
3	I	5301	ATP	C5'-O5'-PA-O3A
3	A	5301	ATP	PA-O3A-PB-O1B
3	G	5301	ATP	PA-O3A-PB-O1B
3	B	5301	ATP	PA-O3A-PB-O1B
3	I	5301	ATP	PA-O3A-PB-O1B
3	A	5301	ATP	C5'-O5'-PA-O1A
3	G	5301	ATP	C5'-O5'-PA-O1A
3	B	5301	ATP	C5'-O5'-PA-O1A
3	I	5301	ATP	C5'-O5'-PA-O1A

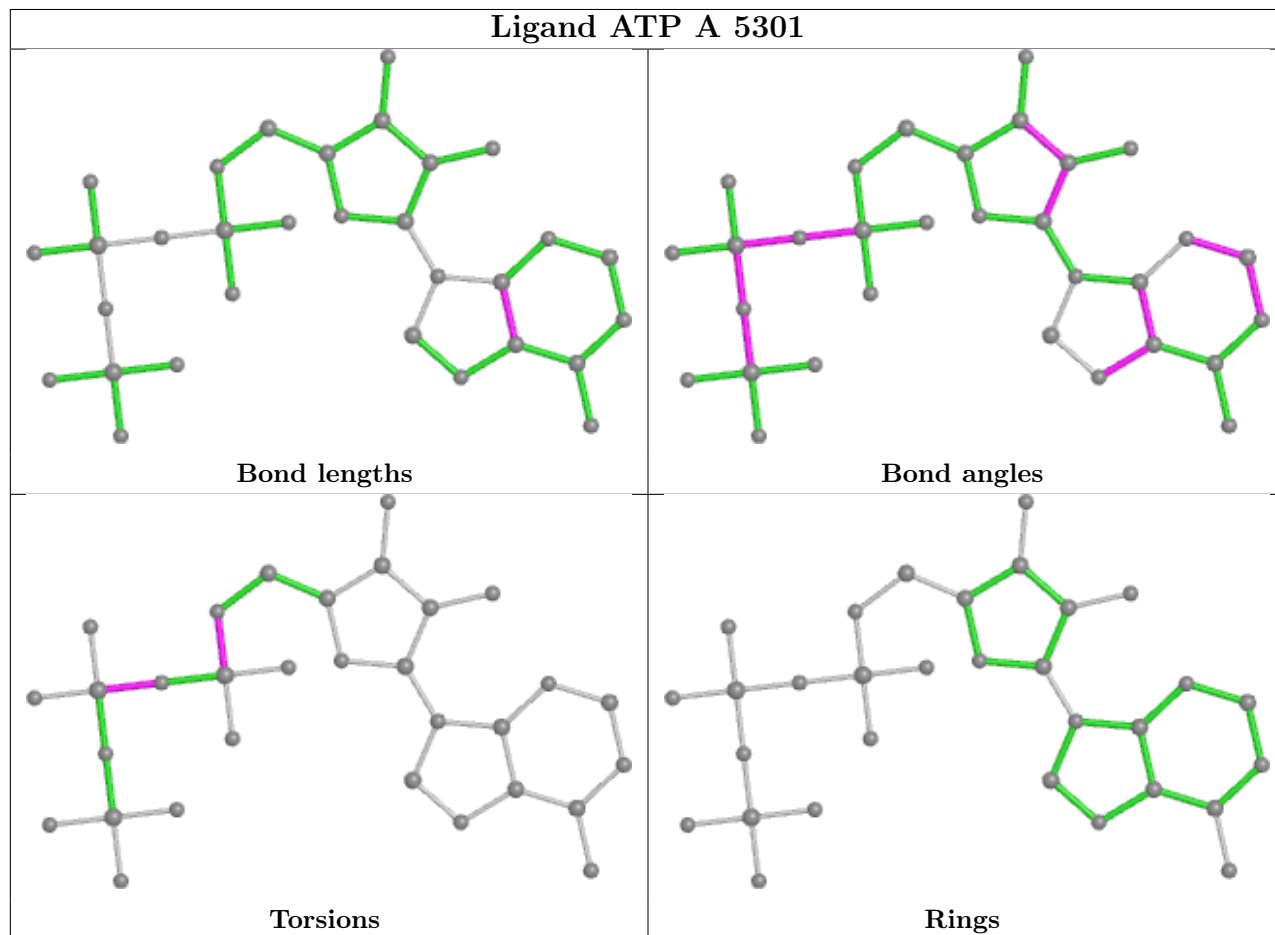
There are no ring outliers.

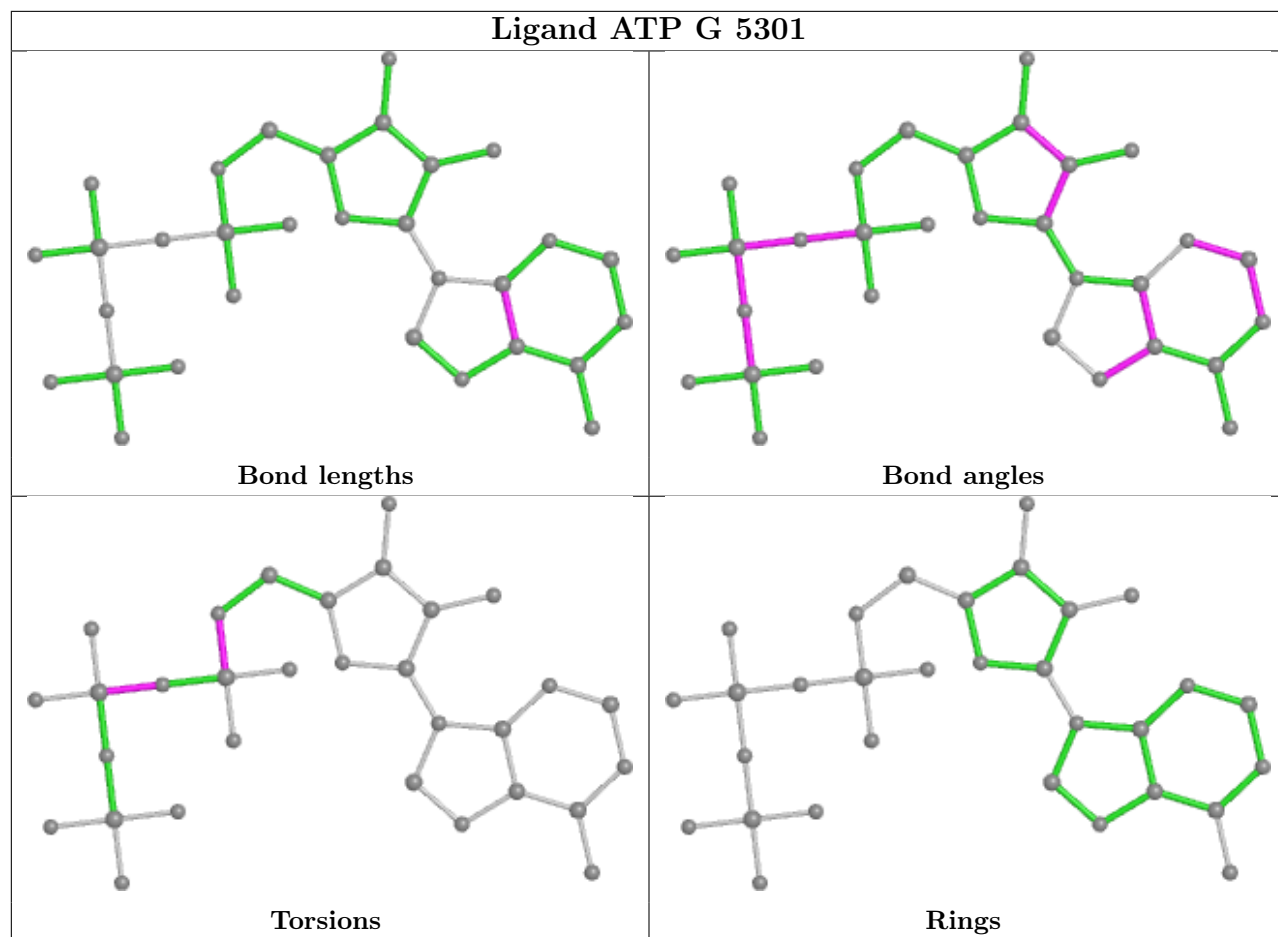
8 monomers are involved in 12 short contacts:

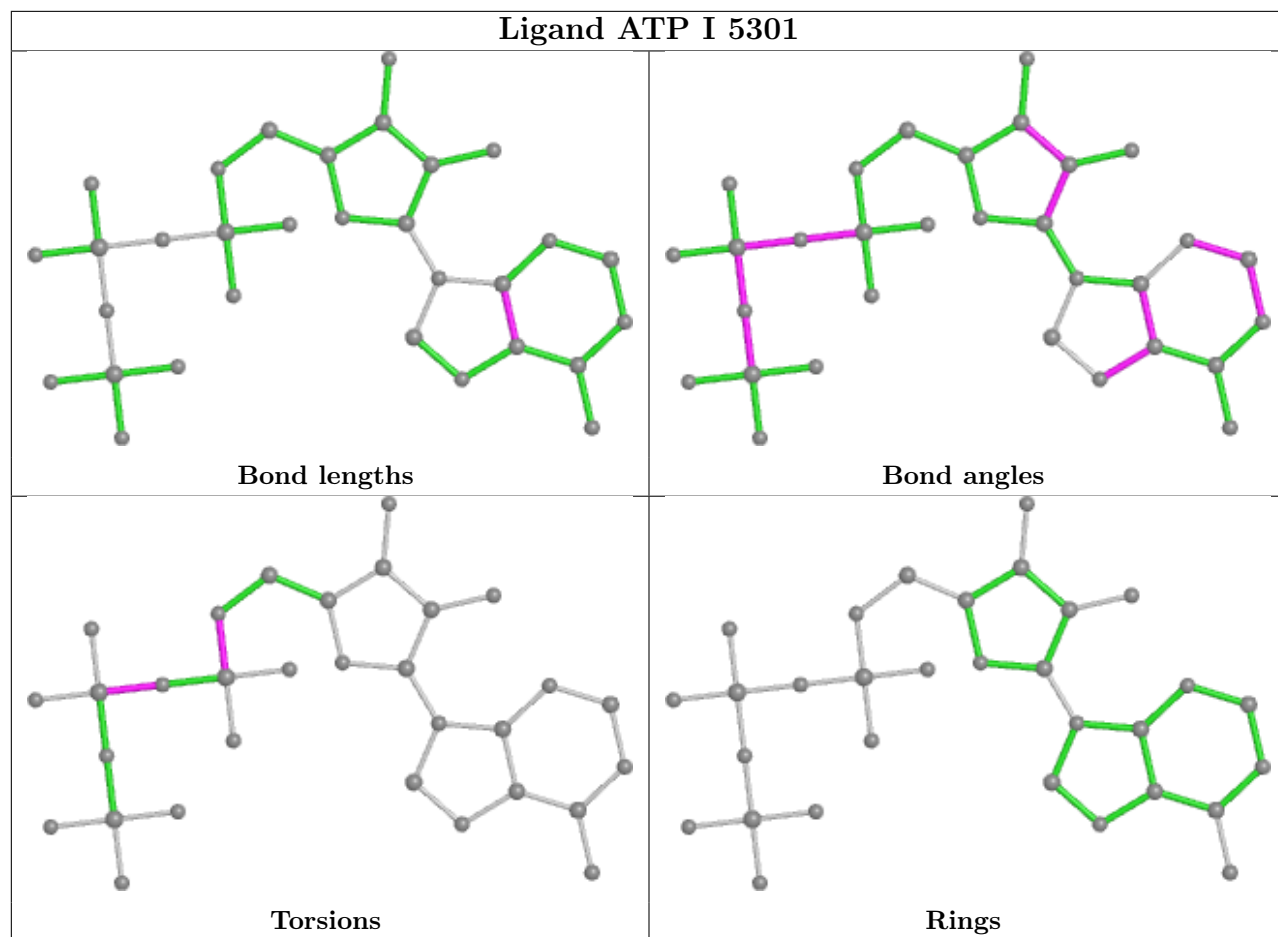
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	5304	CFE	1	0
3	A	5301	ATP	2	0
3	G	5301	ATP	2	0
3	I	5301	ATP	2	0
6	B	5304	CFE	1	0
3	B	5301	ATP	2	0
6	G	5304	CFE	1	0
6	I	5304	CFE	1	0

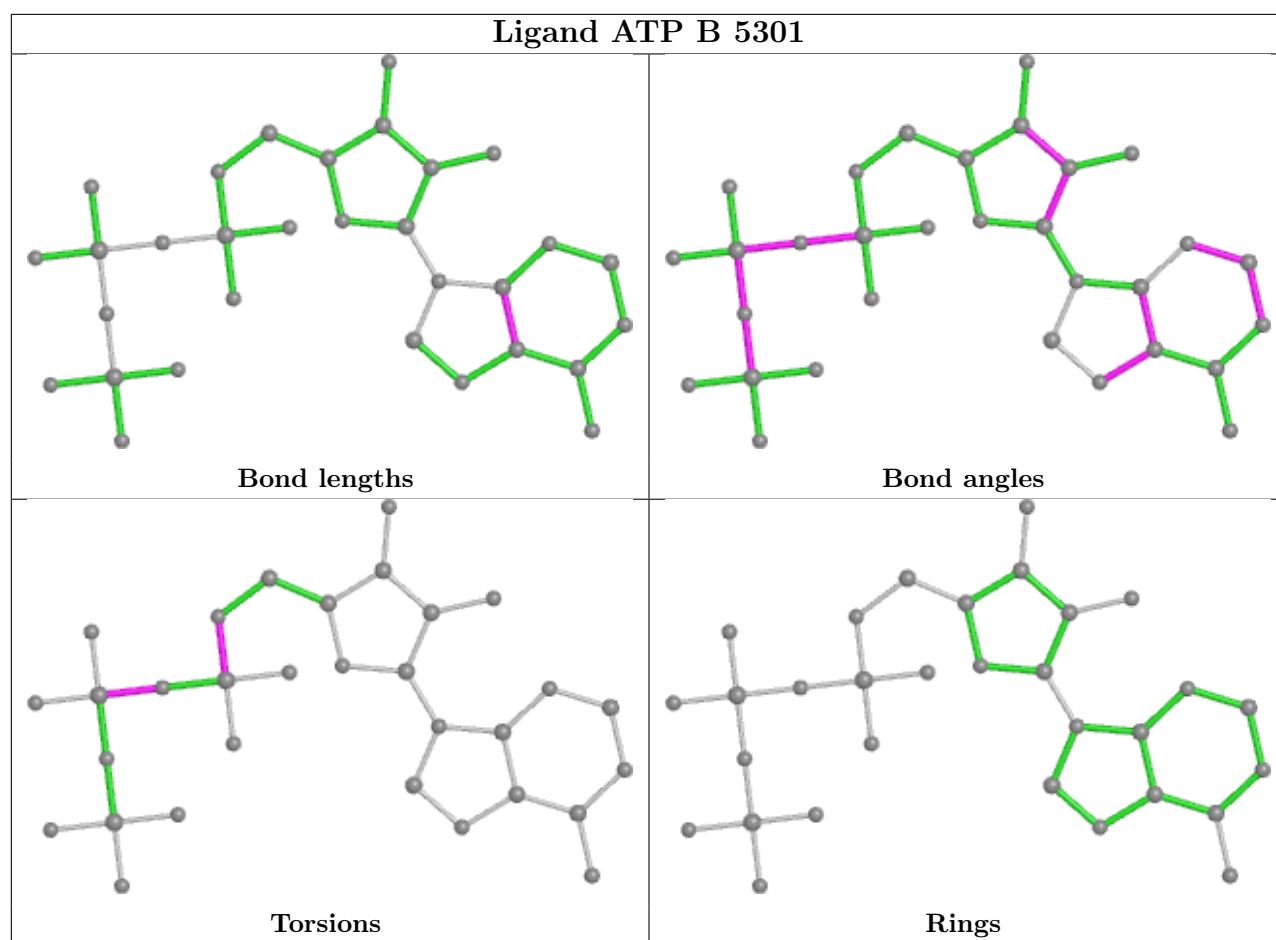
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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









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.

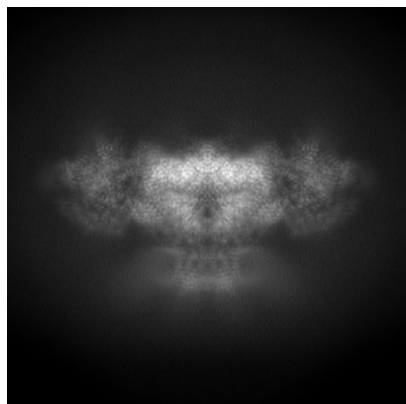
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23692. These allow visual inspection of the internal detail of the map and identification of artifacts.

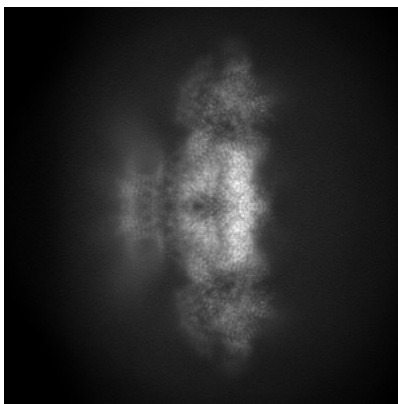
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

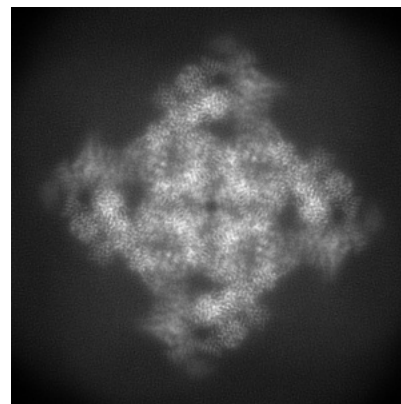
6.1.1 Primary map



X

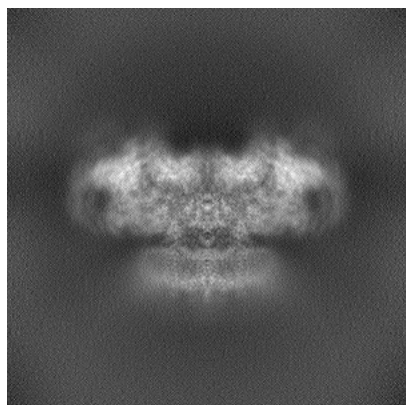


Y

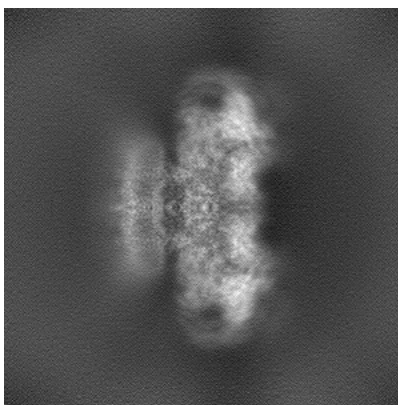


Z

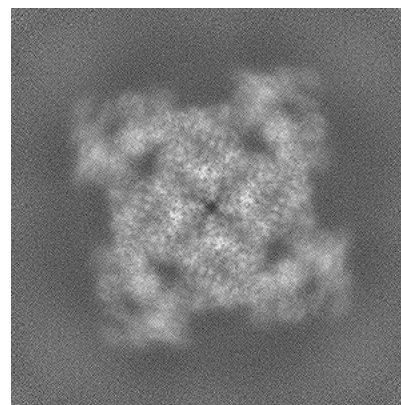
6.1.2 Raw map



X



Y

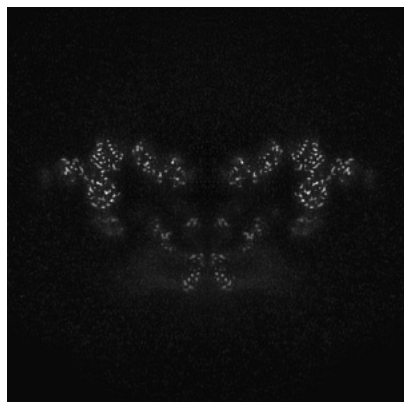


Z

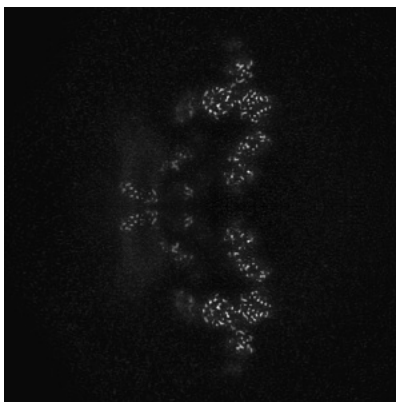
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

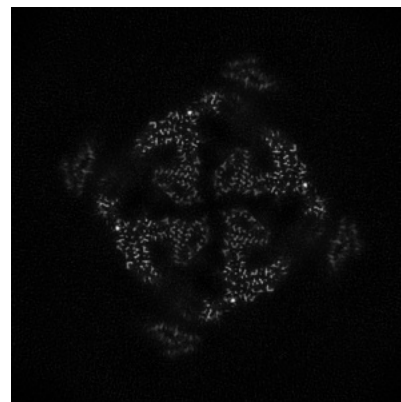
6.2.1 Primary map



X Index: 256

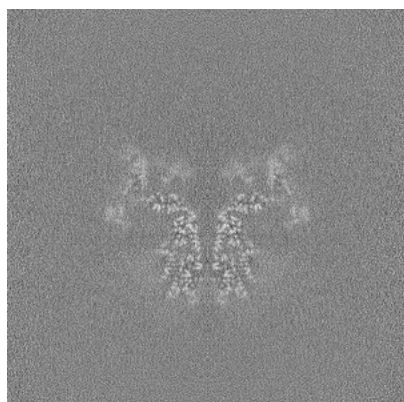


Y Index: 256

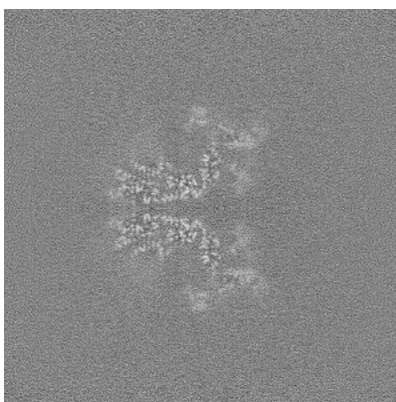


Z Index: 256

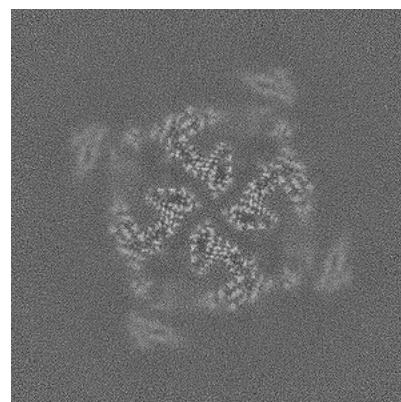
6.2.2 Raw map



X Index: 256



Y Index: 256

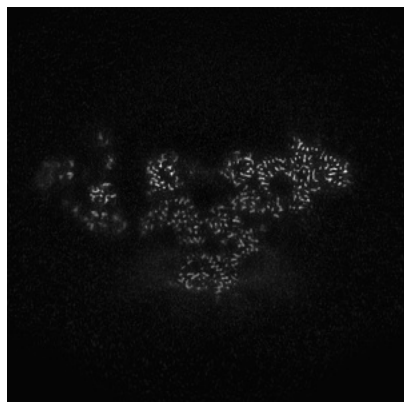


Z Index: 256

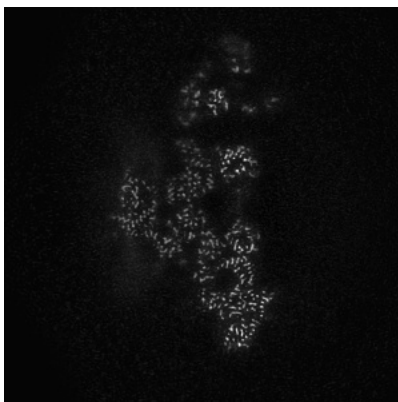
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

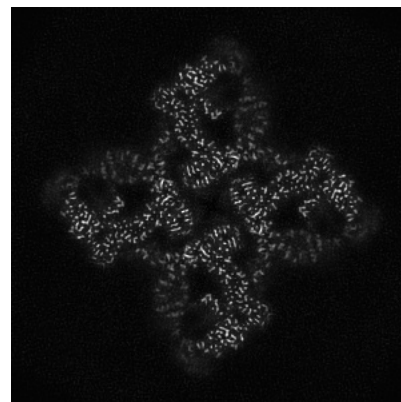
6.3.1 Primary map



X Index: 236

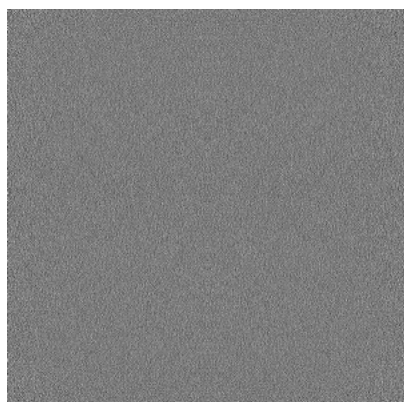


Y Index: 236

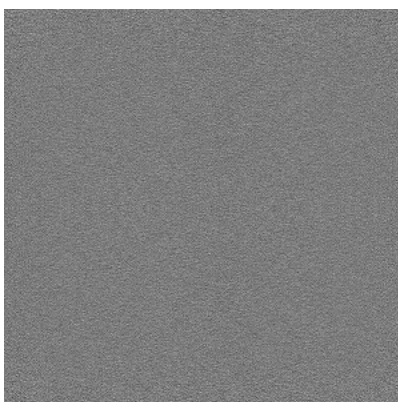


Z Index: 304

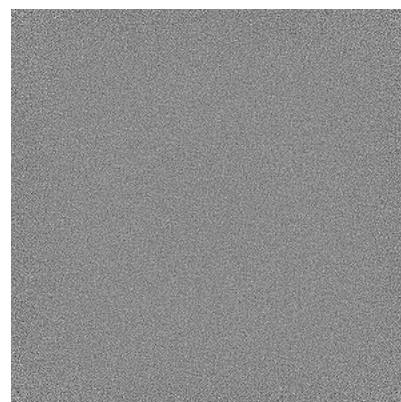
6.3.2 Raw map



X Index: 0



Y Index: 0

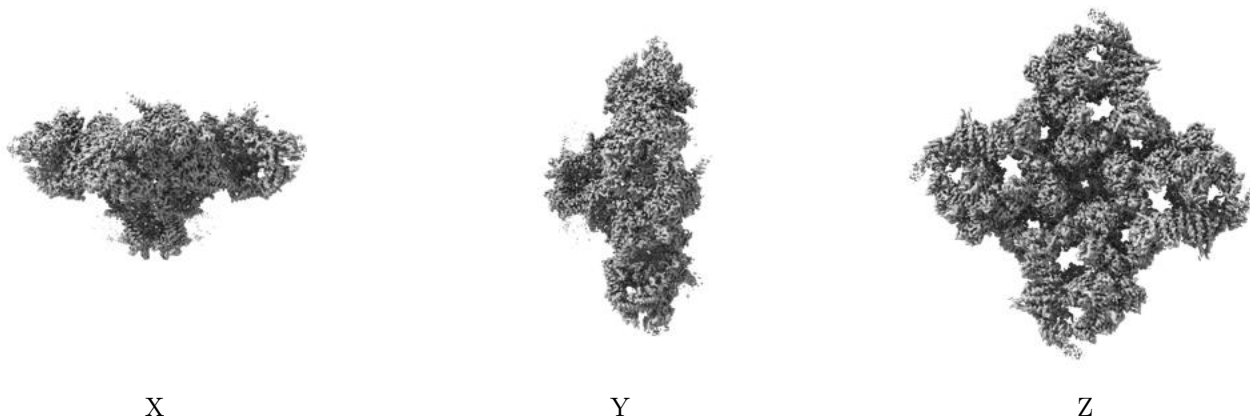


Z Index: 0

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

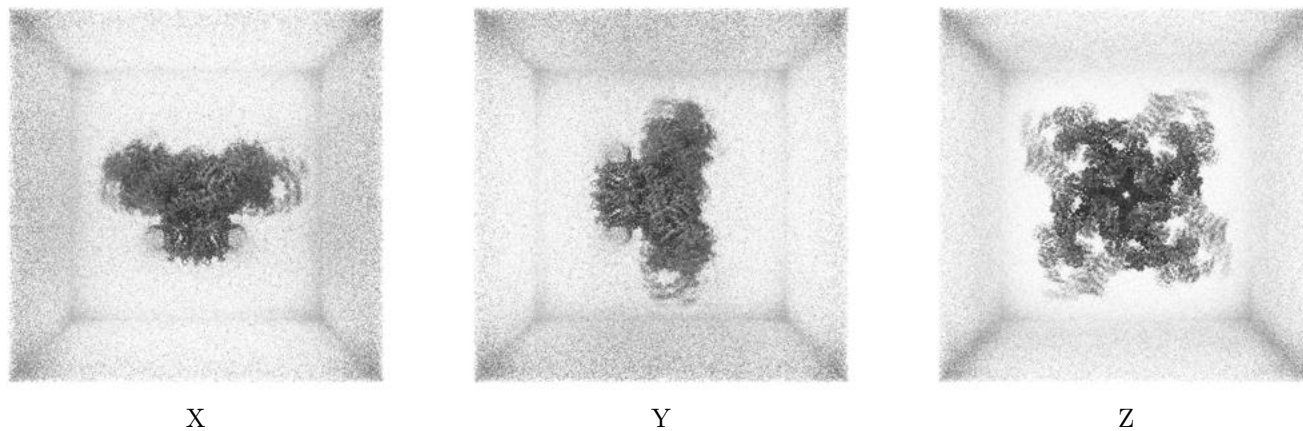
6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.121. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.4.2 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.

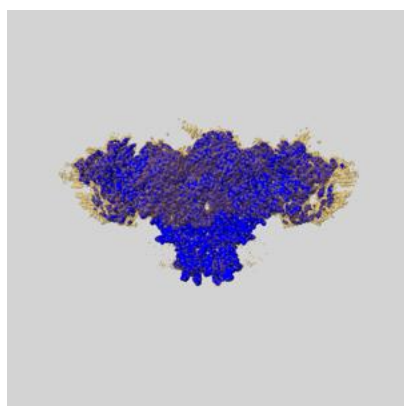
6.5 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

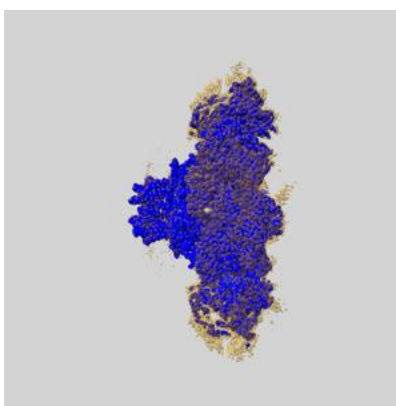
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

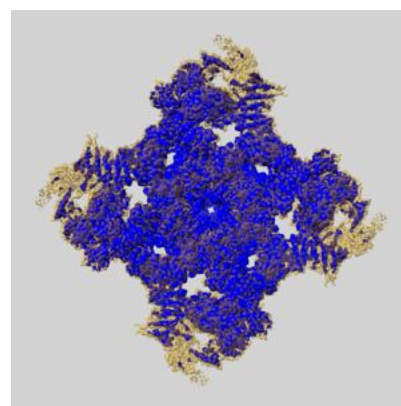
6.5.1 emd_23692_msk_1.map [i](#)



X



Y

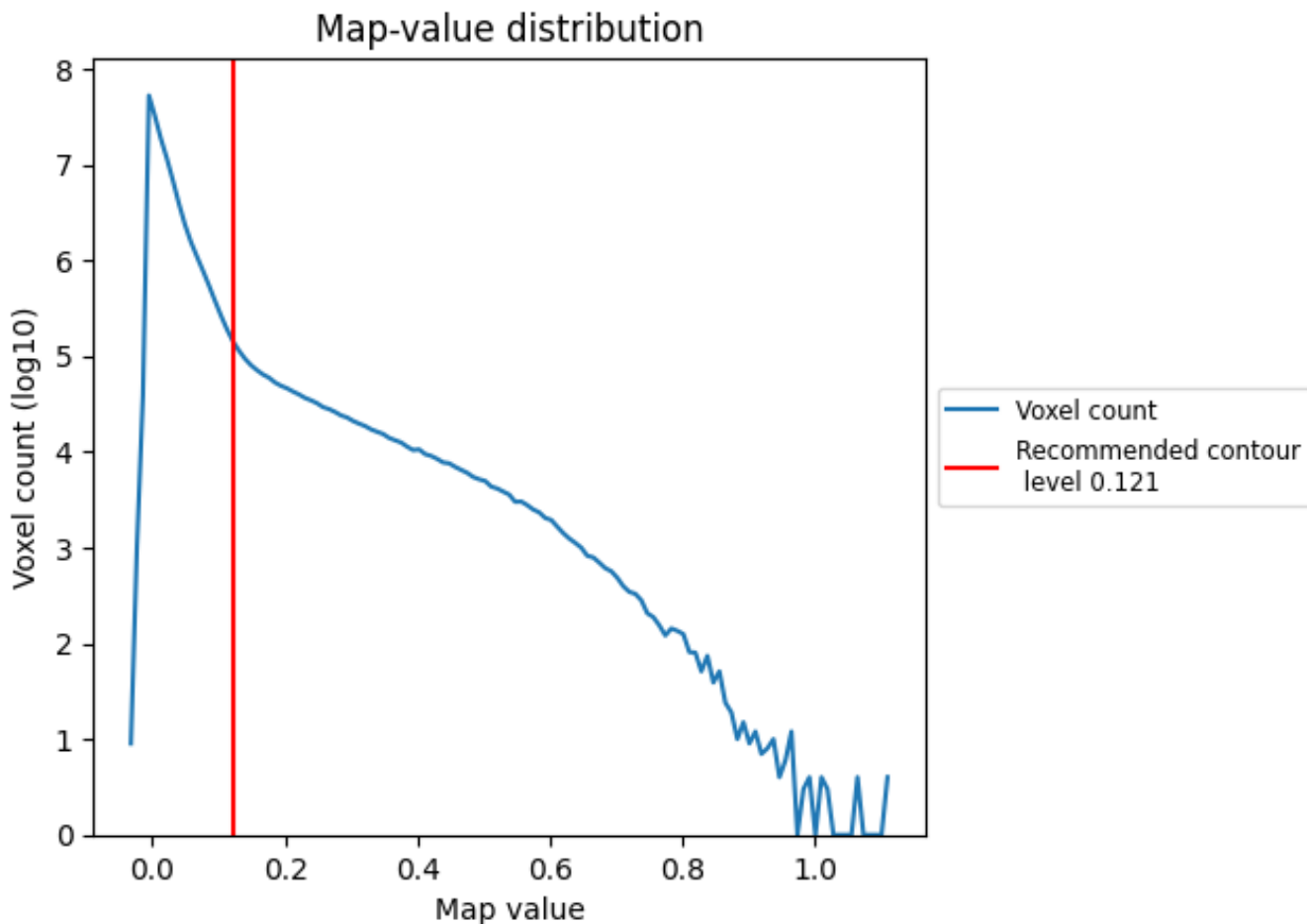


Z

7 Map analysis [i](#)

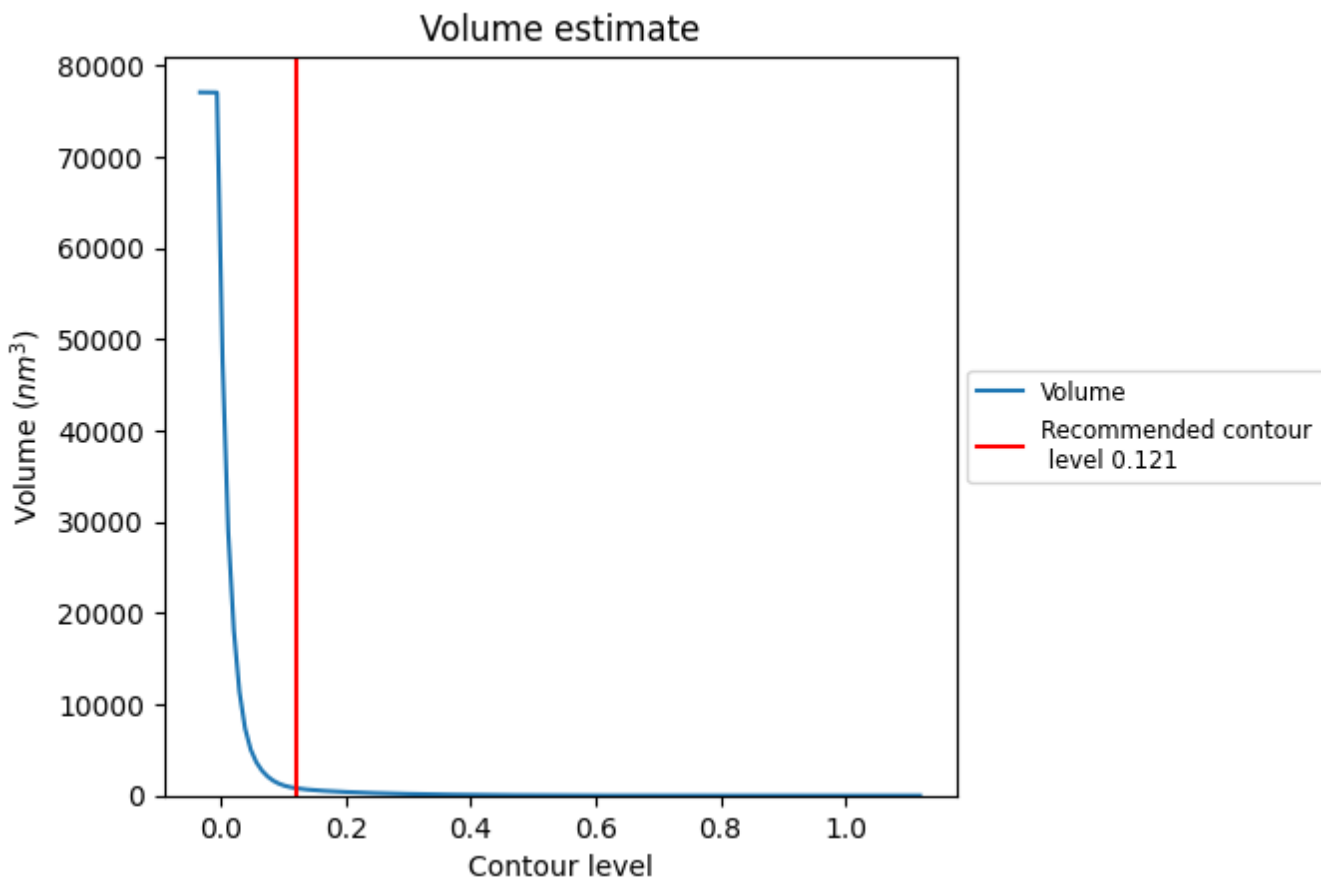
This section contains the results of statistical analysis of the map.

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.

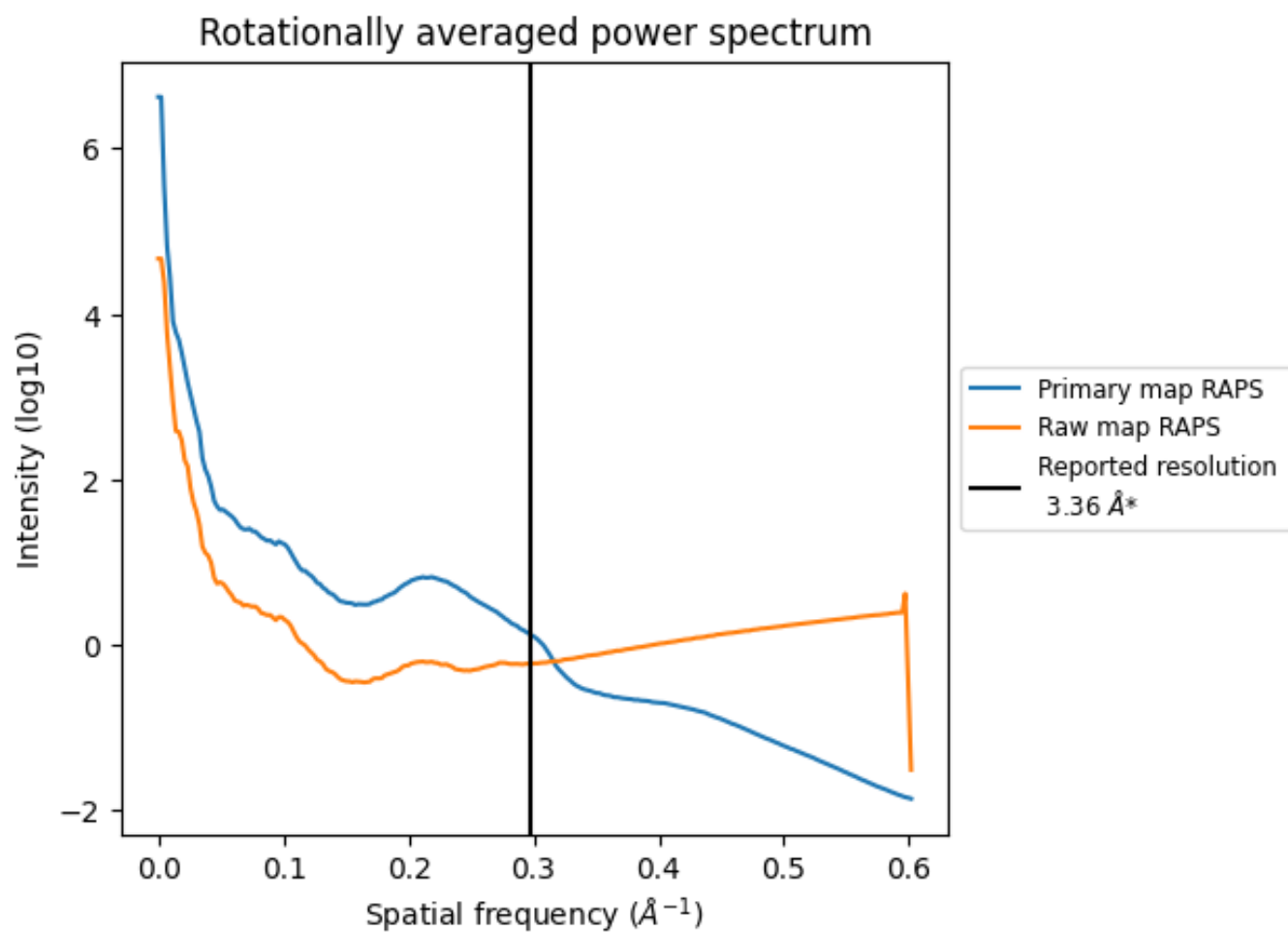
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 808 nm³; this corresponds to an approximate mass of 730 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 i

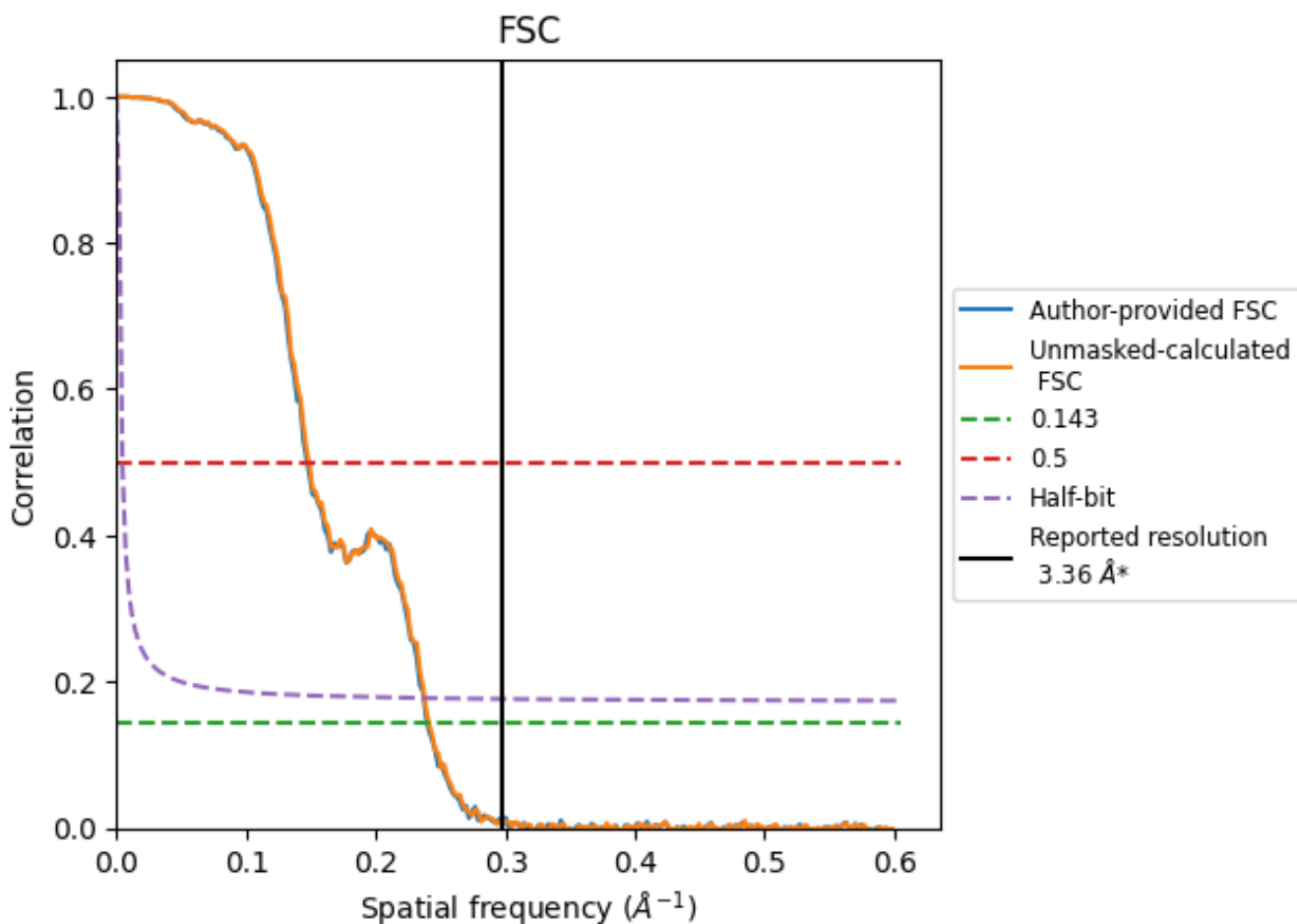


*Reported resolution corresponds to spatial frequency of 0.298 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.298 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.36	-	-
Author-provided FSC curve	4.17	6.79	4.22
Unmasked-calculated*	4.15	6.73	4.21

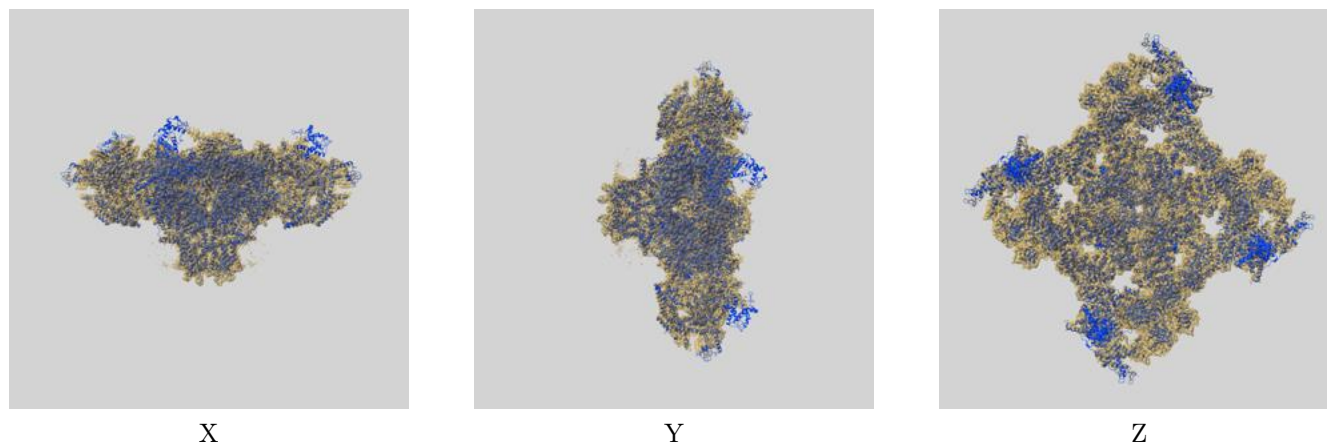
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 4.17 differs from the reported value 3.36 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.15 differs from the reported value 3.36 by more than 10 %

9 Map-model fit [i](#)

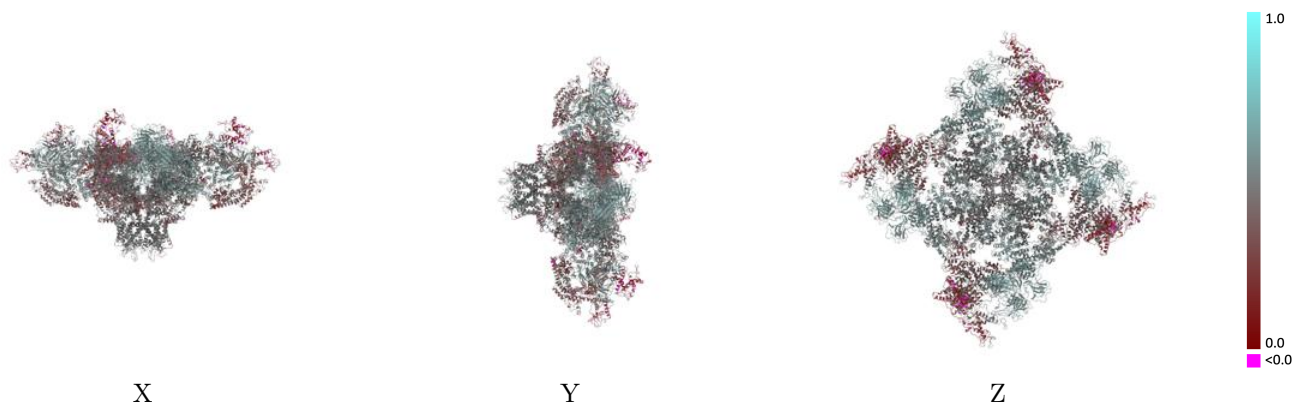
This section contains information regarding the fit between EMDB map EMD-23692 and PDB model 7M6A. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



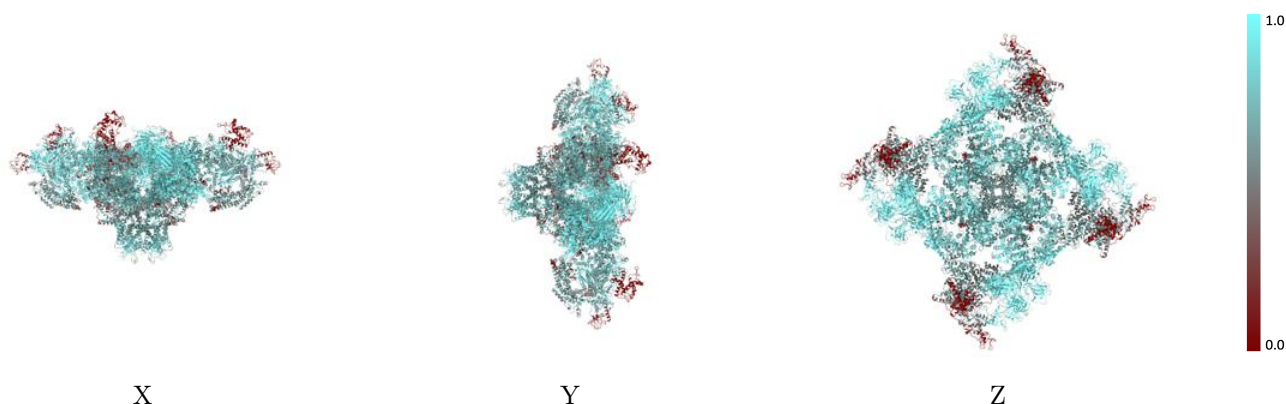
The images above show the 3D surface view of the map at the recommended contour level 0.121 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



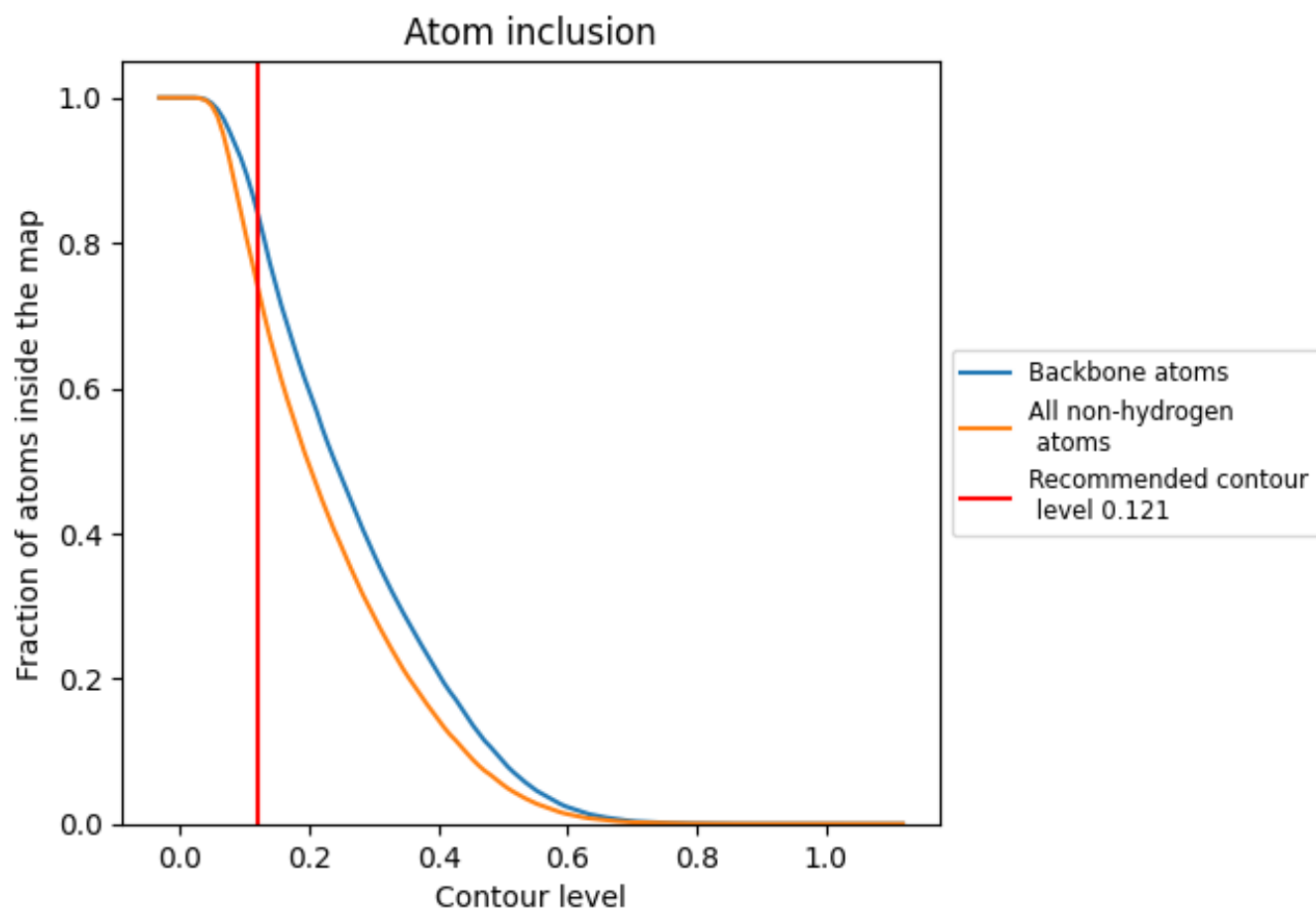
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.121).



















9.4 Atom inclusion [i](#)



At the recommended contour level, 84% of all backbone atoms, 73% 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 (0.121) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7349	 0.4570
A	 0.7324	 0.4580
B	 0.7300	 0.4530
F	 0.8821	 0.5530
G	 0.7324	 0.4540
H	 0.8672	 0.5530
I	 0.7313	 0.4530
J	 0.8784	 0.5500
O	 0.8821	 0.5520

