



Full wwPDB EM Validation Report ⓘ

Nov 10, 2024 – 11:56 PM EST

PDB ID : 7M6L
EMDB ID : EMD-23699
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 : 3.98 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.dev113
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

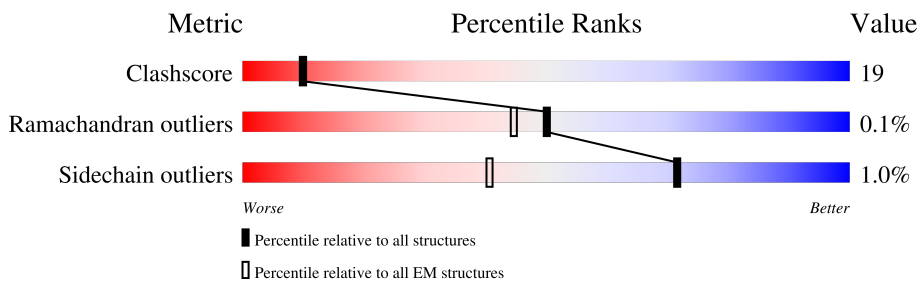
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.98 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	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	
1	H	108	
1	J	108	
1	O	108	
2	A	5037	
2	B	5037	
2	G	5037	
2	I	5037	

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 140412 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	4299	34238	21819	5882	6302	235	3	0
2	G	4299	34238	21819	5882	6302	235	3	0
2	B	4299	34238	21819	5882	6302	235	3	0
2	I	4299	34238	21819	5882	6302	235	3	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
			Total	C	N	O	P	
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
			Total	Ca	
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).

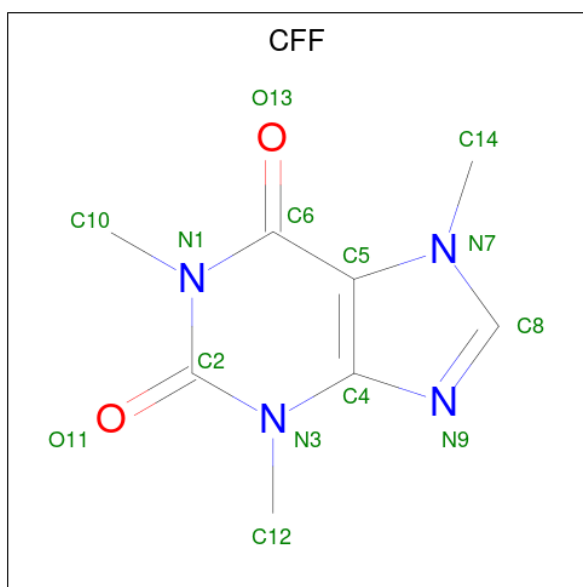
Mol	Chain	Residues	Atoms		AltConf
			Total	Zn	
5	A	1	Total	Zn	0
			1	1	

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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).

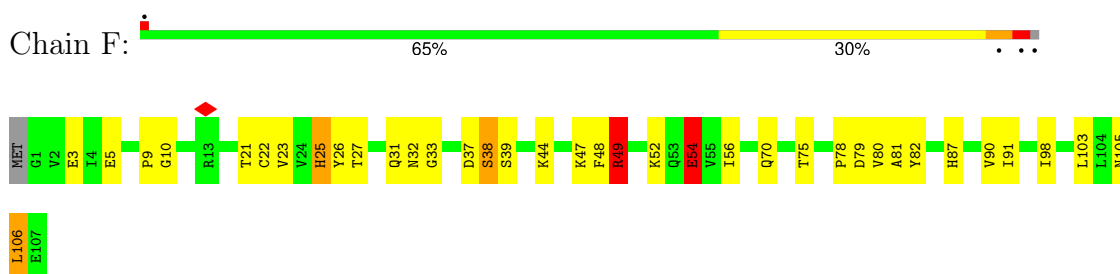


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	I	1	Total	C	N	O	0
			14	8	4	2	

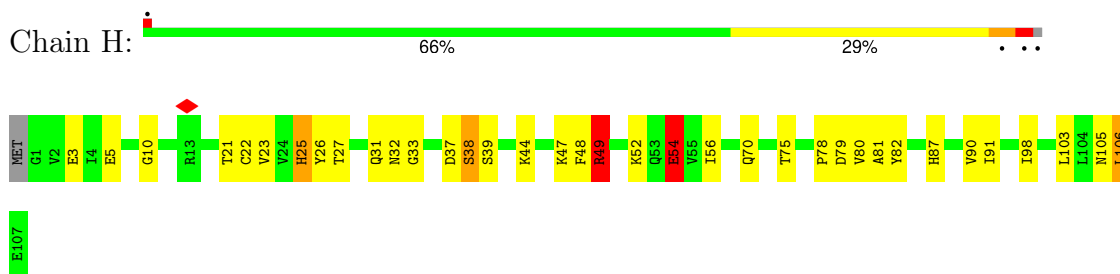
3 Residue-property plots [i](#)

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.

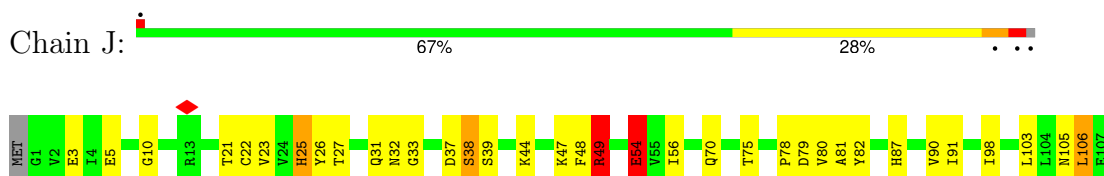
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



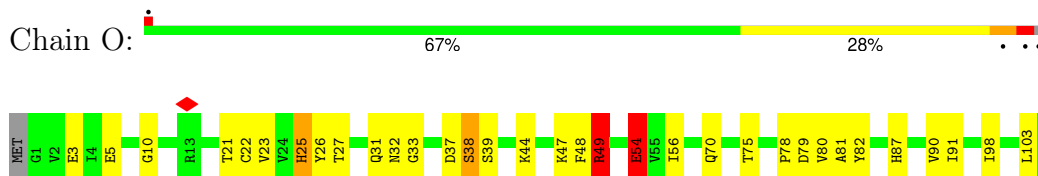
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



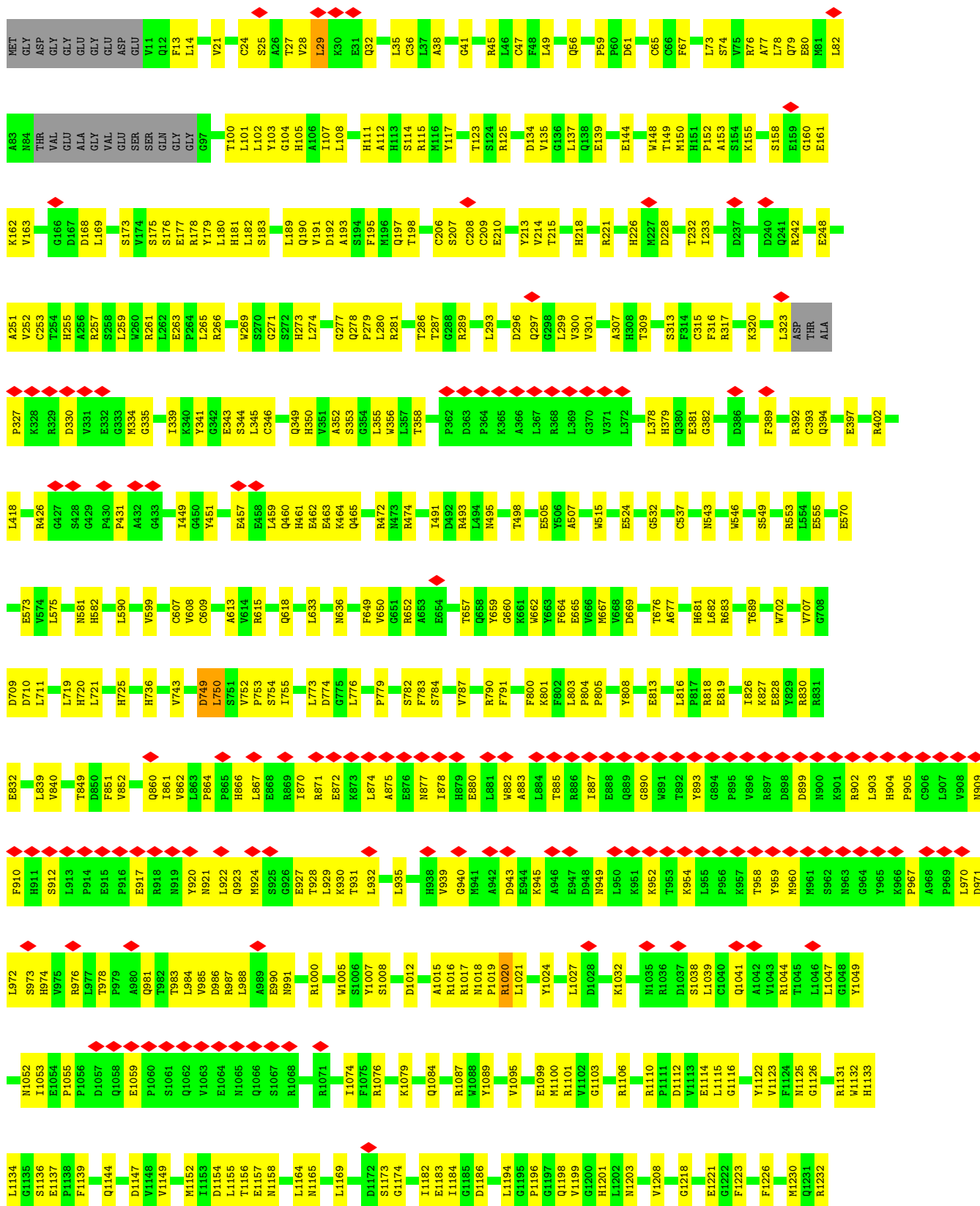
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



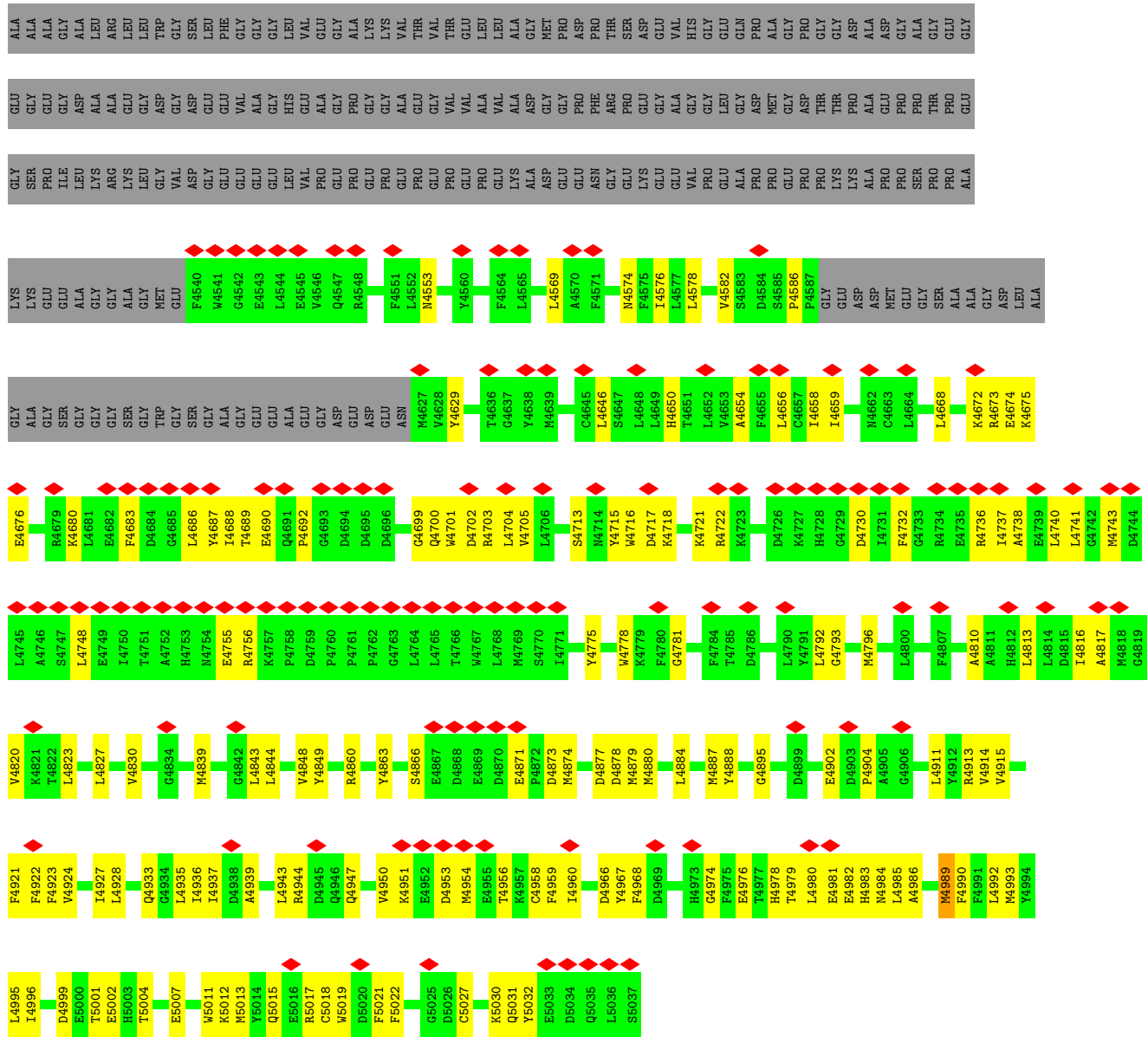
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



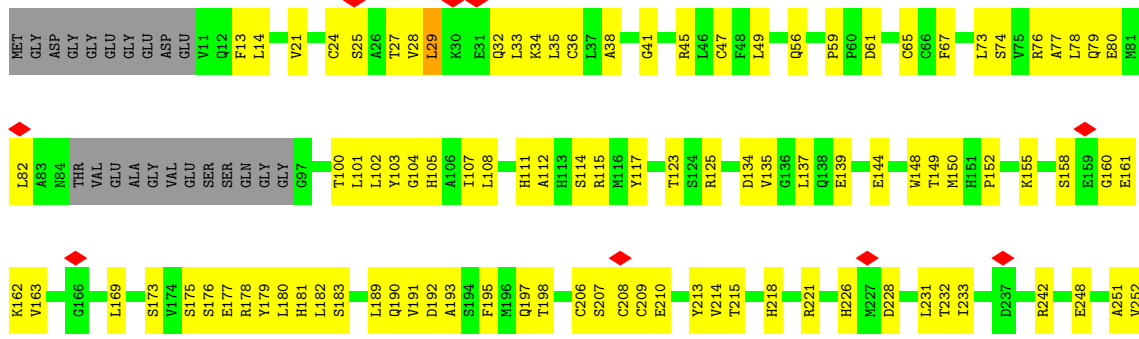
- Molecule 2: Ryanodine receptor 1



V2509	R2588	R2650	K2725	L2785	THR	L2905	W2666	M3038	R3111	V3183	D3252	I3322
V2510	R2589	C2651	LYS	K2786	ALA	V2906	M2667	I3039	L3112	E3184	I3253	I3323
G2511	L2589	L2652	ALA	T2787	GLN	P2907	D2668	K3185	G3113	K3185	A3257	V3324
I2512	R2590	K2653	THR	T2788	THR	Y2908	L2669	L3042	G3114	L3186	A3258	N3325
E2513	R2591	Y2654	VAL	H2789	TYR	D2909	S2670	F3043	VAL	R3187	E3259	N3326
N2514	G2592	W2655	ASP	P2789	ASP	Y2910	Q2971	C3044	SER	L3190	R3262	L3327
K2515	R2593	L2657	ALA	M2790	PRO	L2911	F2972	K3045	GLN	G3191	Y3263	L3328
D2516	S2594	D2658	THR	M2791	ARG	T2912	F2973	L3046	ALA	E3192	E3264	P3330
F2517	L2595	E2659	VAL	L2791	GLU	T2913	L2974	A3047	ARG	C3193	E3265	C3331
L2518	L2596	L2660	GLY	R2792	GLY	A2913	H2976	A3048	THR	L3194	M3266	M3334
L2519	T2596	L2661	GLY	R2793	GLY	K2914	L2977	V3050	VAL	A3195	P3267	W3335
H2520	Q2599	H2662	W2734	P2793	N2855	E2915	E2978	R3053	K3123	R3196	K3268	M3335
V2521	R2600	D2601	F2735	K2795	P2857	K2916	A2979	V3054	G3124	L3197	V3269	K3336
L2522	D2602	L2522	D2736	T2796	Q2858	A2917	V2980	S3055	Y3131	A3198	A3198	L3337
Q2523	V2603	V2523	R2738	T2797	P2859	R2918	V2981	L3056	T3132	F3199	E3271	L3338
V2524	L2603	V2524	P2739	S2798	P2860	R2919	S2982	F3057	F3133	A3199	I3272	A3339
G2525	E2604	F2526	V2740	E2799	D2861	R2920	S2983	F3058	L3136	T3273	T3273	F3340
F2526	C2605	L2606	E2741	K2800	D2862	R2921	G2984	T3059	L3137	L3274	L3274	L3341
L2527	C2606	L2607	T2742	K2801	S2863	E2921	R2985	D3060	L3137	A3200	P3275	M3276
F2528	L2607	M2608	L2743	D2802	G2864	E2922	V2986	A3061	P3138	F3205	M3276	
D2529	A2609	M2609	L2744	K2803	V2865	K2922	E2987	A3061	T3141	L3206	L3277	
M2530	M2610	C2611	L2745	E2803	V2866	K2923	E2987	V3065	T3142	L3207	C3278	
M2531	C2611	R2612	I2746	E2804	L2867	Q2924	K2988	L3068	L3143	E3208	C3278	
A2534	R2612	L2613	L2747	R2805	S2868	E2925	H2991	H3068	F3144	Q3209	Y3280	
S2535	L2614	L2614	P2748	R2806	E2869	L2926	Q2992	H3069	F3145	L3210	L3281	
L2536	R2615	L2615	P2748	R2807	E2870	L2927	Q2993	I3070	Q3145	Q3145	L3282	
D2537	R2616	S2617	E2749	P2808	E2871	K2928	Q2994	L3071	H3146	N3211	P3282	
T2538	S2617	M2618	K2750	P2808	L2870	F2929	E2994	L3072	I3147	E3212	R3283	
F2541	P2617	M2618	L2751	I2809	E2871	R2930	L2995	A3072	I3147	Y3213	W3284	
S2542	L2619	L2619	D2752	K2810	Q2872	Q2931	K2996	S3074	G3148	R3073	W3285	
E2545	Q2620	H2621	S2753	E2811	A2873	Q2932	A2999	S3074	G3149	S3074	E3286	
Y2553	H2622	H2622	F2754	S2812	M2874	M2932	K3000	D3076	H3150	D3076	R3287	
A2557	L2623	L2623	I2755	L2813	A2875	N2933	N3007	A3077	F3152	L3076	E3290	
L2558	R2624	R2624	N2756	K2814	E2876	G2934	Q3008	R3078	D3155	A3077	E3291	
L2559	L2626	L2626	K2757	A2815	Q2877	Y2935	Y3009	R3079	F3156	R3078	P3292	
P2560	V2627	V2627	F2758	M2816	Q2878	A2936	F3010	V3080	I3157	V3080	P3293	
L2561	F2628	F2628	A2759	I2817	L2879	R2937	F3011	M3081	L3158	K3081	R3294	
L2562	D2629	D2629	E2760	A2818	E2880	T2938	N3012	K3082	D3159	K3082	P3294	
C2563	V2630	V2630	Y2761	W2819	N2881	R2939	H3013	S3083	D3160	S3083	L3296	
C2565	N2634	N2634	A2709	W2820	L2882	GLY	C3014	G3084	V3161	G3084	P3297	
A2570	E2635	E2635	A2709	E2821	H2883	LEU	L3015	K3089	Q3162	K3089	A3298	
R2575	F2636	F2636	H2763	T2822	N2884	LYS	Y3016	A3090	R3166	A3090	G3299	
A2576	A2637	A2637	E2764	I2823	T2885	ASP	F3017	R3093	T3168	R3093	C3304	
M2579	K2638	M2639	K2765	E2824	W2886	LEU	S3019	F3096	T3169	W2886	C3304	
V2579	M2639	M2639	A2767	K2825	G2887	THR	A3024	E3097	C3170	C3170	T3305	
D2580	P2640	P2640	F2768	A2826	R2888	THR	L3025	E3097	S3171	E3237	T3305	
M2581	L2641	L2641	D2769	E2827	K2889	S2949	L3026	R3102	I3172	E3238	S3309	
L2583	L2642	L2642	D2770	E2828	K2890	S2950	G3026	I3103	Y3173	M3239	L3312	
H2584	L2644	L2644	K2770	E2829	K2891	I2951	S3027	K3104	S3174	C3240	L3313	
E2649	T2645	T2645	L2771	E2830	K2892	E2952	G3028	K3105	L3175	P3241	N3313	
			Q2772	GLU	E2893	R2954	G3029	V3107	G3176	D3242	S3314	E3382
			Q2773	GLU	E2894	F2955	H3030	E3108	T3177	P3244	L3315	E3383
			N2774	THR	E2895	G2956	N3033	E3109	G3177	V3245	L3316	K3384
			S2775	THR	E2895	F2957	K3036	N3109	N3180	L3246	M3317	A3385
			S2776	GLU	A2896	G2968	K3036	N3109	T3181	L3246	I3319	E3386
			S2777	LYS	K2897	F2959	E3037	L3110	Y3182	L3249	L3320	E3387
			Y2777	LYS	G2898	L2960				M3250	R3321	E3388
			G2778	THR	G2899	L2963				A3251		
			E2779	ARG	G2900	L2964						
			N2780	LYS	T2901	R2965						
			V2781	ILE	T2901							
			D2782	SER	P2903							
			E2783	GLN	L2904							



• Molecule 2: Ryanodine receptor 1

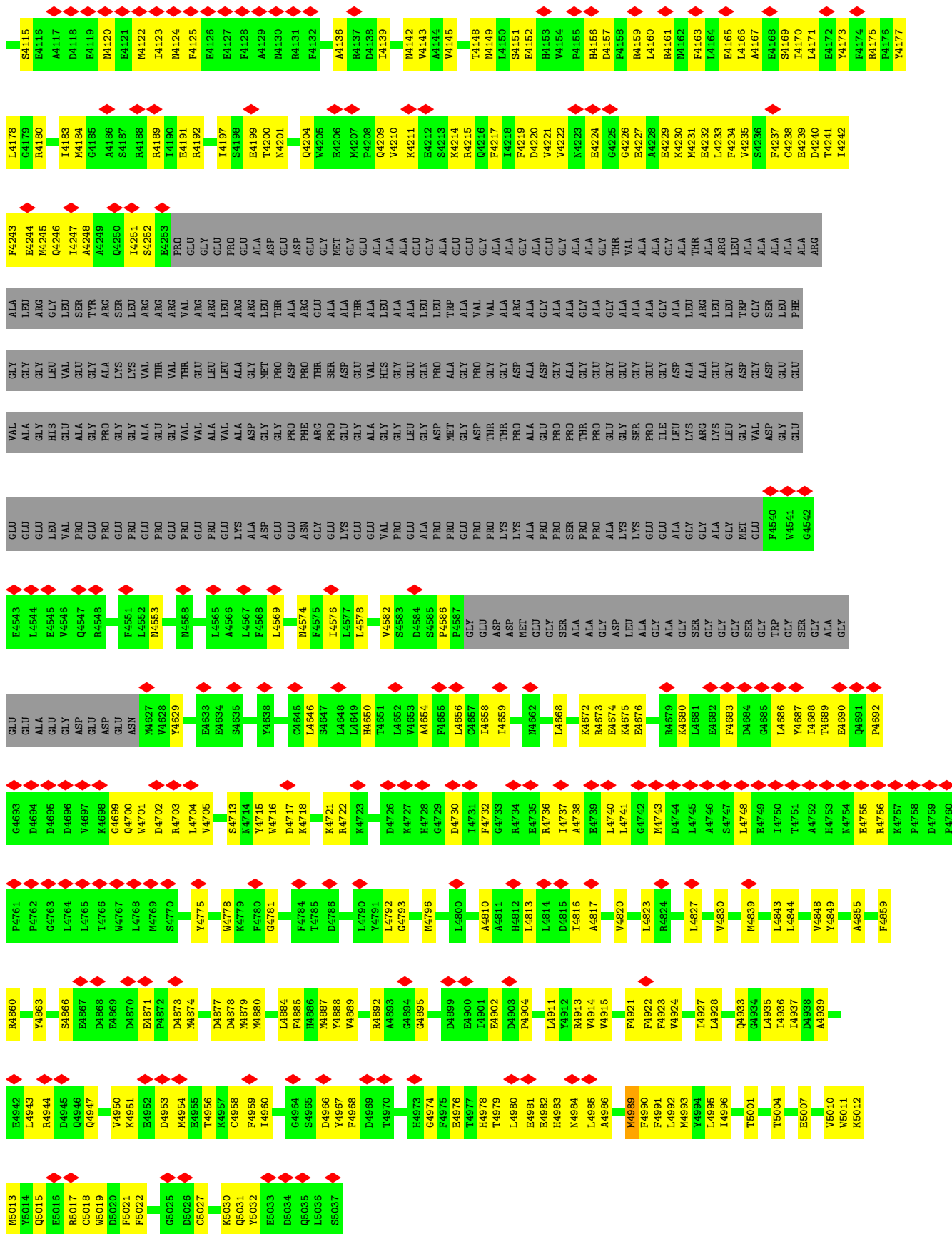


V1501	SER	V1509	PRO	S1510	GLY	C1518	ALA	G1525	LEU	E1543	GLY	T1546	HIS	L1547	ASP	F1548	VAL	F1549	VAL	V1552	PRO	F1553	GLY	V1554	GLY	T1557	THR	V1561	GLN	I1562	PRO	Q1563	GLY	K1568	GLU	Q1569	GLU	M1570	VAL	M1571	VAL	I1572	VAL	M1573	ARG	L1574	ALA	L1575	GLY	S1576	ASN	A1577	GLU	A1578	LEU	R1584	ALA	K1585	ALA	M1586	GLU	Q1590	GLU	C1591	ASP	L1595	LYS	E1596	ARG	V1597	GLY	Q1598	PHE	M1599	LEU	S1485	PHE	R1607	LYS	M1608	ALA																																		
L1595	LYS	E1596	ARG	V1597	GLY	Q1598	PHE	M1599	LEU	S1485	PHE	R1607	LYS	M1608	ALA	V1257	LYS	A1258	ALA	M1259	ALA	M1260	ALA	T1263	MET	V1264	GLN	D1265	GLN	T1266	THR	C1269	GLY	E1157	GLY	L1158	ALA	L1164	ALA	N1165	GLY	L1169	LEU	S1279	PRO	G1282	GLY	M1286	THR	L1287	GLY	F1288	GLY	L1289	GLY	R1290	PRO	L1291	PRO	S1292	GLY	F1297	THR	N1420	ASP	R1421	THR	I1427	PRO	Y1433	VAL	Y1434	VAL	Y1435	VAL	G1442	VAL	V1448	VAL	T1454	ALA	F1455	PRO	D1456	GLY	F1464	ASP	V1469	ALA	M1476	GLU	G1477	GLU	D1478	GLY	E1479	ASN	Q1480	LYS	G1481	ARG	V1482	GLY	V1483	ASP	H1484	PHE	S1485	ASP	M1491	LYS	C1492	GLU		
P1060	ASN	S1061	LEU	Q1062	ARG	V1063	SER	E1064	ALA	N1065	GLY	Q1066	GLY	S1067	THR	R1068	THR	R1071	THR	I1074	LEU	F1075	GLY	R1076	GLY	K1079	LEU	Q1084	THR	R1087	ALA	M1088	GLY	Y1089	GLY	V1095	GLY	E1099	GLN	M1100	PRO	R1101	PRO	V1102	GLY	G1103	GLU	R1106	PRO	F1111	VAL	D1112	VAL	E1114	ASN	L1115	GLY	G1116	LYS	Y1122	ASP	F1123	ALA	F1124	GLU	M1125	GLU	G1126	GLU	R1131	ASN	M1132	LYS	H1133	ARG	L1134	GLY	G1135	PRO	S1136	ASP	E1137	ASP	F1139	TYR	Q1144	GLY																												
R1018	PRO	N919	PRO	Y920	PRO	N921	PRO	L922	PRO	Q923	PRO	N924	PRO	S925	PRO	G926	PRO	E927	PRO	T928	PRO	L929	PRO	K930	PRO	T931	PRO	L932	PRO	L935	PRO	H936	PRO	V939	PRO	N941	PRO	A942	PRO	D943	PRO	E944	PRO	K945	PRO	L1021	PRO	Y1024	PRO	L1027	PRO	D1028	PRO	K1032	PRO	N1035	PRO	R1036	PRO	D1037	PRO	S1038	PRO	Q1041	PRO	A1042	PRO	V1043	PRO	R1044	PRO	T1045	PRO	L1046	PRO	L1047	PRO	N963	PRO	G964	PRO	K965	PRO	P967	PRO	A968	PRO	P969	PRO	D1057	PRO	L970	PRO	D971	PRO	S973	PRO	H974	PRO	V975	PRO	R976	PRO	L977	PRO	P979	PRO								
V852	PRO	Q860	PRO	I861	PRO	V862	PRO	P864	PRO	P865	PRO	H866	PRO	L867	PRO	E868	PRO	R869	PRO	I870	PRO	R871	PRO	E872	PRO	K873	PRO	L874	PRO	A875	PRO	N877	PRO	I878	PRO	H879	PRO	E880	PRO	L881	PRO	W882	PRO	A883	PRO	L884	PRO	T885	PRO	R886	PRO	I887	PRO	E888	PRO	Q889	PRO	G890	PRO	W891	PRO	L965	PRO	P966	PRO	K967	PRO	G894	PRO	P895	PRO	V896	PRO	R897	PRO	D898	PRO	D899	PRO	N900	PRO	K901	PRO	R902	PRO	L903	PRO	V940	PRO	T849	PRO	D850	PRO	E851	PRO	C906	PRO	L907	PRO	V908	PRO	F910	PRO	H911	PRO	S912	PRO	L913	PRO	E915	PRO	P916	PRO	E917	PRO
V852	PRO	Q860	PRO	I861	PRO	V862	PRO	P864	PRO	P865	PRO	H866	PRO	L867	PRO	E868	PRO	R869	PRO	I870	PRO	R871	PRO	E872	PRO	K873	PRO	L874	PRO	A875	PRO	N877	PRO	I878	PRO	H879	PRO	E880	PRO	L881	PRO	W882	PRO	A883	PRO	L884	PRO	T885	PRO	R886	PRO	I887	PRO	E888	PRO	Q889	PRO	G890	PRO	W891	PRO	L965	PRO	P966	PRO	K967	PRO	G894	PRO	P895	PRO	V896	PRO	R897	PRO	D898	PRO	D899	PRO	N900	PRO	K901	PRO	R902	PRO	L903	PRO	V940	PRO	T849	PRO	D850	PRO	E851	PRO	C906	PRO	L907	PRO	V908	PRO	F910	PRO	H911	PRO	S912	PRO	L913	PRO	E915	PRO	P916	PRO	E917	PRO
V331	PRO	E332	PRO	G333	PRO	M334	PRO	G335	PRO	I339	PRO	K340	PRO	Y341	PRO	G342	PRO	S344	PRO	L345	PRO	R266	PRO	W269	PRO	S270	PRO	G271	PRO	S972	PRO	H273	PRO	L274	PRO	G277	PRO	Q278	PRO	P279	PRO	L280	PRO	R281	PRO	T286	PRO	T287	PRO	G288	PRO	R289	PRO	L293	PRO	D296	PRO	Q297	PRO	L299	PRO	V300	PRO	V301	PRO	A307	PRO	H309	PRO	C315	PRO	F316	PRO	R317	PRO	K320	PRO	L323	PRO	ASP	THR	ALA	P327	PRO	K328	PRO	R329	PRO	D330	PRO																									
V331	PRO	E332	PRO	G333	PRO	M334	PRO	G335	PRO	I339	PRO	K340	PRO	Y341	PRO	G342	PRO	S344	PRO	L345	PRO	R266	PRO	W269	PRO	S270	PRO	G271	PRO	S972	PRO	H273	PRO	L274	PRO	G277	PRO	Q278	PRO	P279	PRO	L280	PRO	R281	PRO	T286	PRO	T287	PRO	G288	PRO	R289	PRO	L293	PRO	D296	PRO	Q297	PRO	L299	PRO	V300	PRO	V301	PRO	A307	PRO	H309	PRO	C315	PRO	F316	PRO	R317	PRO	K320	PRO	L323	PRO	ASP	THR	ALA	P327	PRO	K328	PRO	R329	PRO	D330	PRO																									
S428	PRO	G429	PRO	P430	PRO	P431	PRO	A432	PRO	G433	PRO	T449	PRO	G450	PRO	Y451	PRO	E457	PRO	L459	PRO	Q460	PRO	H461	PRO	E462	PRO	E463	PRO	K464	PRO	Q465	PRO	L459	PRO	Q460	PRO	H461	PRO	E462	PRO	E463	PRO	K464	PRO	Q465	PRO	L459	PRO	Q460	PRO	H461	PRO	E462	PRO	E463	PRO	K464	PRO	Q465	PRO	L459	PRO	Q460	PRO	H461	PRO	E462	PRO	E463	PRO	K464	PRO	Q465	PRO																																								
L719	PRO	H720	PRO	L721	PRO	H725	PRO	V743	PRO	D749	PRO	L750	PRO	S751	PRO	P752	PRO	P753	PRO	S754	PRO	L755	PRO	L773	PRO	D774	PRO	G775	PRO	L776	PRO	P779	PRO	F649	PRO	V650	PRO	G651	PRO	A653	PRO	E654	PRO	T657	PRO	Q658	PRO	V659	PRO	G660	PRO	Y661	PRO	W662	PRO	F664	PRO	M667	PRO	V668	PRO	D669	PRO	T676	PRO	A677	PRO	H681	PRO	L682	PRO	R683	PRO	T689	PRO	W702	PRO	V707	PRO	G708	PRO	D709	PRO	D710	PRO	L711	PRO																												
L719	PRO	H720	PRO	L721	PRO	H725	PRO	V743	PRO	D749	PRO	L750	PRO	S751	PRO	P752	PRO	P753	PRO	S754	PRO	L755	PRO	L773	PRO	D774	PRO	G775	PRO	L776	PRO	P779	PRO	F649	PRO	V650	PRO	G651	PRO	A653	PRO	E654	PRO	T657	PRO	Q658	PRO	V659	PRO	G660	PRO	Y661	PRO	W662	PRO	F664	PRO	M667	PRO	V668	PRO	D669	PRO	T676	PRO	A677	PRO	H681	PRO	L682	PRO	R683	PRO	T689	PRO	W702	PRO	V707	PRO	G708	PRO	D709	PRO	D710	PRO	L711	PRO																												

M4743	R4673	PRO	THR	GLY	ALA	PRO	THR	GLY	GLY	GLY	THR	R4161	Q4094	L4031	K3959	K3875
D4744	E4674	PRO	PRO	GLY	GLY	PRO	PRO	GLY	GLY	GLY	GLY	N4162	K4095	E4032	Q3960	A3876
L4745	K4675	ALA	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	F4163	A4096	G4033	F3961	D3877
A4746	E4676	LYS	SER	GLY	ALA	LYS	GLY	ALA	ALA	ALA	ALA	L4164	M4097	M4034	F3962	E3878
S4747	R4679	GLY	ILE	GLY	GLY	GLY	ILE	GLY	GLY	GLY	GLY	E4165	D4098	V4035	L3965	F3880
L4748	K4680	GLY	LEU	GLY	ASP	GLY	LEU	GLY	GLY	GLY	GLY	A4166	Q4100	V4036	T3966	E3879
E4749	F4683	GLY	LEU	GLY	ASP	LEU	LEU	GLY	GLY	GLY	GLY	E4168	Q4102	M4037	E3967	R3866
I4750	D4684	GLY	ARG	GLY	GLY	ARG	ARG	GLY	GLY	GLY	GLY	S4169	K4101	M4039	Y3968	F3887
T4751	G4685	GLY	LYS	GLY	ALA	LYS	LYS	GLY	GLY	GLY	GLY	I4170	Q4104	M4039	I3969	L3888
A4752	G4686	MET	LEU	GLY	ASP	LEU	LEU	GLY	GLY	GLY	GLY	L4171	F4103	L4040	Q3970	L3890
H4753	L4686	GLY	VAL	GLY	GLY	VAL	VAL	GLY	GLY	GLY	GLY	E4172	T4104	V4045	C3973	L3891
H4754	I4688	THR	ASP	GLY	THR	THR	THR	GLY	GLY	GLY	GLY	Y4173	T4104	D4046	T3974	R3896
E4755	T4689	ASP	GLY	ASP	GLY	ASP	ASP	GLY	GLY	GLY	GLY	F4174	G4105	M4047	G3975	N3897
R4756	T4689	W4541	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	R4175	P4106	L4048	N3976	D3898
K4757	G4690	W4542	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	P4176	E4107	V4049	N3976	F3899
P4758	E4691	G4542	GLY	GLY	VAL	GLY	GLY	GLY	GLY	GLY	GLY	Y4177	I4108	E4050	L3980	I3902
D4759	Q4691	E4543	GLY	GLY	VAL	GLY	GLY	GLY	GLY	GLY	GLY	E4178	Q4109	S4052	I3900	Y3902
P4760	P4692	L4544	LEU	HIS	GLY	LEU	LEU	GLY	GLY	GLY	GLY	G4179	Q4110	S4052	I3900	I3916
P4761	D4694	E4545	VAL	GLY	GLY	VAL	VAL	VAL	VAL	VAL	VAL	R4180	L4111	S4053	R3901	Y3902
P4762	D4695	R4548	PRO	ALA	GLY	GLY	PRO	GLY	GLY	GLY	GLY	E4182	L4112	M4054	R3902	R3904
G4763	D4696	F4551	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	M4183	E4116	V4055	A3988	N3909
L4764	V4697	L4552	PRO	GLY	GLY	PRO	PRO	GLY	GLY	GLY	GLY	M4184	A4117	E4056	V3989	N3914
L4765	K4698	M4553	GLY	LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS	G4185	D4118	M4057	V3990	I3915
T4766	Q4700	R4557	GLY	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	A4186	K4060	K4067	F3992	I3916
D4767	W4701	M4558	PRO	THR	VAL	VAL	VAL	THR	THR	THR	THR	S4187	F4061	F4062	H3994	V3920
L4768	D4702	Y4629	PRO	GLY	VAL	VAL	VAL	GLY	GLY	GLY	GLY	R4188	E4121	D4063	V3995	Y3920
L4769	R4703	E4634	PRO	ALA	VAL	VAL	VAL	GLY	GLY	GLY	GLY	E4189	M4122	M4064	F3996	L3923
S4770	L4704	A4639	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	E4191	F4065	F4065	A3997	L3924
D4771	W4705	M4638	ASP	GLY	ASP	ASP	ASP	GLY	GLY	GLY	GLY	R4192	L4066	K4067	H3998	S3929
L4772	V4705	A4639	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	E4192	L4066	K4067	H3998	S3929
Y4775	L4706	M4640	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	E4193	F4125	L4067	M4000	Y3934
H4778	W4714	E4640	ASN	PHE	PHE	ASN	ASN	ASP	ASP	ASP	ASP	S4199	E4126	K4069	M4001	Y3934
F4780	Y4715	L4646	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	E4199	E4127	E4127	K4002	Y3935
G4781	Y4716	S4647	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	T4200	F4128	L4003	L4003	Y3936
F4784	Y4717	L4648	LYS	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	M4201	M4129	A4004	A4004	Y3937
T4785	D4717	L4649	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	R4202	A4130	Q4005	Q4005	S3938
D4786	K4718	L4650	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	A4203	R4131	D4006	D4006	S3939
L4792	K4721	H4650	VAL	GLY	GLY	VAL	VAL	VAL	VAL	VAL	VAL	Q4204	F4132	Q4073	Q4073	K3941
G4793	R4722	T4651	PRO	GLY	GLY	PRO	PRO	PRO	PRO	PRO	PRO	E4206	A4136	S4074	Q4009	D3941
R4796	R4722	L4652	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	E4206	A4136	E4075	Q4009	D3941
A4810	D4726	Y4653	ALA	GLY	GLY	ALA	ALA	ALA	ALA	ALA	ALA	Q4209	R4137	A4076	I4010	Y3942
L4813	K4727	L4654	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	V4210	D4138	F4077	E4011	Y3942
L4814	H4728	F4655	THR	THR	THR	THR	THR	THR	THR	THR	THR	V4211	L4139	Q4078	L4012	E3944
D4815	W4729	C4657	LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS	K4211	T4139	D4079	L4013	E3945
L4816	D4730	I4659	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	K4211	T4139	D4079	L4013	E3945
A4817	I4731	I4659	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	K4211	T4139	D4079	L4013	E3945
G4818	G4732	M4662	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	K4211	T4139	D4079	L4013	E3945
V4820	G4733	L4668	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	K4211	T4139	D4079	L4013	E3945
L4823	E4735	K4672	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	K4211	T4139	D4079	L4013	E3945
	R4736		GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	K4211	T4139	D4079	L4013	E3945
	I4737		GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	K4211	T4139	D4079	L4013	E3945
	A4738		GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	K4211	T4139	D4079	L4013	E3945
	L4740		GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	K4211	T4139	D4079	L4013	E3945
	L4741		GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	K4211	T4139	D4079	L4013	E3945
	G4742		ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	K4211	T4139	D4079	L4013	E3945

A3061	V2986	G2864	Q2924	V2804	L2607	D2529	P2482	L2295	L2212
F3062	E2987	V2865	E2925	Y2805	H2608	M2530	L2463	E2296	H2213
V3065	K2988	T2866	L2926	R2806	A2609	R2531	D2464	K2297	V2214
H3066	L2927	L2867	L2927	V2807	C2611	A2534	D2393	L2466	L2215
E2992	K2928	S2868	K2928	P2808	R2612	L2535	G2394	V2467	G2216
H3068	F2929	R2869	F2929	L2809	L2613	L2536	G2395	S2300	GLY
Q2993	L2930	E2870	L2930	K2810	L2614	D2537	GLY	Y2301	GLY
L3071	Q2931	L2871	Q2931	E2811	L2615	T2538	VAL	L2302	THR
K2996	M2932	Q2872	M2932	S2812	F2616	F2541	ARG	A2303	LYS
A2999	G2934	A2873	G2934	K2814	S2617	Q2475	ASP	L2223	GLU
K3000	V2935	M2874	V2935	K2814	L2618	E2542	ARG	K2227	R2228
N3007	A2936	A2875	A2936	M2816	M2618	E2545	GLU	P2319	C2232
Q3008	V2937	E2876	V2937	L2817	L2623	Y2553	HIS	N2324	C2233
F3009	T2938	Q2877	T2938	M2818	R2624	A2557	PHE	R2334	R2334
F3010	R2939	L2878	R2939	A2818	R2625	V2558	GLY	F2235	F2235
T3011	GLY	A2879	T3011	V2819	R2626	L2559	GLU	G2328	L2236
N3012	LYS	E2880	N3012	E2820	V2627	L2561	PRO	Y2331	C2237
H3013	LYS	M2881	H3013	T2822	F2628	L2562	PRO	D2332	Y2238
C3014	ASP	Y2882	C3014	L2823	A2705	T2563	GLU	D2333	F2239
L3015	MET	H2883	L3015	E2824	A2706	T2563	GLU	F2334	R2241
Y3016	LEU	H2884	Y3016	K2825	A2707	R2564	GLU	T2242	C2240
F3017	ASP	T2885	F3017	K2825	G2708	F2569	R2414	R2241	R2241
L3018	THR	W2886	L3018	A2826	A2709	A2570	R2415	T2242	S2243
S3019	S2949	Q2887	S3019	E2827	E2634	A2570	H2417	Q2245	Q2245
V3024	S2950	R2888	V3024	G2829	E2635	R2575	M2422	M2246	M2246
L3025	L2951	K2888	L3025	E2830	K2638	A2575	M2423	M2250	M2250
G3026	K2953	K2889	G3026	K2890	P2640	M2577	M2423	V2256	V2256
S3027	R2954	K2891	S3027	K2891	L2641	M2578	I2430	R2355	E2259
G3028	F2955	Q2892	G3028	Q2892	L2644	V2579	D2431	M2260	M2260
G3029	A2956	E2893	G3029	E2893	T2645	L2581	L2433	S2261	S2261
N3033	F2957	L2894	N3033	L2894	H2646	L2582	G2434	GLY	GLY
K3036	L2960	E2895	K3036	E2895	H2647	L2583	R2435	ILE	ILE
E3037	L2963	A2896	E3037	A2896	E2648	T2585	P2438	LEU	LEU
M3038	L2964	K2897	M3038	K2897	E2649	R2588	E2439	GLY	GLY
I3039	R2965	G2898	I3039	G2898	C2651	S2590	I2443	MET	MET
L3042	M2966	G2899	L3042	G2899	H2652	S2592	G2447	Q2268	Q2268
F3043	M2967	G2900	F3043	G2900	Y2654	G2592	G2448	G2269	G2269
C3044	D2968	H2902	C3044	H2902	L2657	R2593	E2449	S2270	S2270
K3045	S2970	P2903	K3045	P2903	L2661	S2594	A2450	L2273	L2273
L3046	Q2971	L2904	L3046	L2904	W2661	S2595	E2451	A2277	A2277
A3047	Q2972	L2905	A3047	L2905	S2668	T2596	L2452	M2284	M2284
A3048	L2973	ASP	A3048	ASP	L2668	Q2599	R2454	E2285	E2285
L3049	L2974	PRO	L3049	PRO	L2672	R2600	L2457	L2286	L2286
V3050	A2975	ARG	V3050	ARG	H2674	D2601	R2458	K2287	K2287
R3053	H2976	THR	R3053	THR	L2675	V2602	L2460	L2288	L2288
V3054	L2977	GLY	V3054	GLY	K2676	V2603	L2461	I2386	I2386
L3056	V2980	T2912	L3056	T2912	K2677	E2604	V2461		
F3057	S2982	L2913	F3057	L2913	L2678	D2605			
G3058	S2984	K2914	G3058	K2914	L2678	C2606			
T3059	G2984	E2915	T3059	E2915	L2678				
D3060	R2985	K2916	D3060	K2916	L2678				
		A2917		A2917	L2678				
		R2918		R2918	L2678				
		D2919		D2919	L2678				
		R2920		R2920	L2678				
		E2921		E2921	L2678				
		K2922		K2922	L2678				
		A2923		A2923	L2678				

L3136	L3137	P3138	L3141	L3142	L3143	F3144	F3145	H3146	H3147	A3148	H3149	H3150	F3152	F3155	V3156	L3158	H3159	H3160	V3161	F3162	V3166	F3167	F3168	L3169	C3170	S3171	L3172	F3173	S3174	L3175	F3176	T3177	F3178	F3179	N3180	T3181	V3182	V3183	F3184	K3185	L3186	F3187	L3190	F3191	E3192	C3193	L3194	K3195	R3196	H3197	A3198	A3199							
A3200	A3204	F3205	L3206	E3207	Q3208	Q3209	L3210	N3211	E3212	Y3213	N3214	A3215	V3218	Y3219	T3220	T3221	R3225	E3226	R3227	A3228	L3229	L3230	G3231	P3232	E3237	E3238	M3239	C3240	P3241	D3242	L3243	P3244	V3245	L3246	L3249	M3250	A3251	D3252	I3253	A3257	E3258	R3262	T3263	Y3264	E3265	M3266	H3268	V3269	I3270	E3271									
T3272	T3273	F3274	P3275	M3276	L3277	C3278	S3279	L3280	L3281	P3282	R3283	W3284	W3285	E3286	R3287	E3290	A3291	P3292	P3293	P3294	A3295	L3296	P3297	A3298	G3299	A3300	C3304	T3305	S3309	L3312	N3313	S3314	L3315	L3316	G3317	N3318	L3319	L3320	R3321	I3322	L3323	V3324	N3325	N3326	L3327	G3328	L3329	D3330	E3331	W3334	M3335	K3336	R3337	L3338					
F3341	A3342	L3345	L3412	L3413	R3348	A3349	R3350	F3351	E3352	L3353	L3354	H3355	S3356	F3357	H3358	L3359	G3363	R3364	L3365	R3366	K3367	R3368	V3372	V3373	A3374	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	G3397	F3398	S3399	L3401	C3402	R3403	L3405					
L3408	F3409	P3410	L3411	L3412	R3348	A3349	R3350	F3351	E3352	L3353	L3354	H3355	S3356	F3357	H3358	L3359	G3363	R3364	L3365	R3366	K3367	R3368	V3372	V3373	A3374	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	G3397	F3398	S3399	L3401	C3402	R3403	L3405					
L3408	F3409	P3410	L3411	L3412	R3348	A3349	R3350	F3351	E3352	L3353	L3354	H3355	S3356	F3357	H3358	L3359	G3363	R3364	L3365	R3366	K3367	R3368	V3372	V3373	A3374	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	G3397	F3398	S3399	L3401	C3402	R3403	L3405					
L3408	F3409	P3410	L3411	L3412	R3348	A3349	R3350	F3351	E3352	L3353	L3354	H3355	S3356	F3357	H3358	L3359	G3363	R3364	L3365	R3366	K3367	R3368	V3372	V3373	A3374	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	G3397	F3398	S3399	L3401	C3402	R3403	L3405					
ASP	ALA	GLN	SER	GLY	GLY	SER	ASP	GLN	GLU	THR	LYS	LYS	ARG	ARG	GLY	ASP	ARG	S3503	S3504	V3505	Q3506	T3507	S3508	L3509	L3510	V3511	L3514	K3515	K3516	M3517	C3525	V3526	F3527	T3528	D3529	Q3530	D3531	L3532	T3533	H3534	L3535	A3536	K3537	T3538	R3539	Y3540	L3542	K3543	T3544	T3545	L3546	LYS	LYS	ALA	VAL	TRP	HIS	LYS	LEU
R3550	E3551	F3552	L3553	G3554	N3555	N3556	N3557	H3558	L3559	Q3560	G3561	E3564	L3569	R3570	L3575	L3579	P3580	G3581	R3582	E3583	E3584	D3585	A3586	D3587	D3588	K3591	I3592	V3593	R3594	R3595	V3596	Q3597	E3598	V3602	H3605	L3606	E3607	E3610	H3611	P3612	Y3613	L3614	S3615	LYS	LYS	ALA	VAL	TRP	HIS	LYS	LEU								
LEU	SER	LYN	GLN	ARG	ARG	ALA	V3632	V3633	A3634	C3635	F3636	R3637	M3638	T3639	P3640	L3641	Y3642	L3644	A3649	M3652	Y3657	L3663	S3668	F3669	R3672	M3673	L3674	D3675	L3677	E3682	GLN	GLU	GLU	GLU	GLU	GLU	GLU	GLU	VAL	T3802	S3803	L3804	N3805	Q3806	V3812	M3816	D3822												
T3711	E3712	K3713	S3714	K3715	L3716	D3719	Y3725	I3728	M3729	L3735	GLU	GLU	GLY	GLY	ASN	GLU	ALA	GLU	GLU	GLU	GLU	VAL	S3751	S3752	F3753	Q3767	S3768	H3771	T3772	R3773	A3776	L3780	G3788	M3793	T3802	S3803	L3804	N3805	Q3806	V3812	M3816	D3822																	
K3823	K3824	E3825	V3826	G3827	F3828	L3835	L3842	D3843	L3844	M3845	A3846	F3847	E3848	R3849	A3853	E3854	G3855	L3856	G3857	M3858	V3859	N3860	E3861	D3862	G3863	T3864	V3865	ASN	ARG	GLN	ASN	F3872	K3873	M3874	V3874	V3875	D3876	L3877	E3882	GLN	GLU	GLU	GLU	VAL	T3802	S3803	L3804	N3805	Q3806	V3812	M3816	D3822							
N3901	Y3902	L3903	R3904	N3909	N3914	T3915	L3916	V3920	L3923	L3924	S3929	Y3934	V3935	Y3936	Y3937	S3938	G3939	K3940	D3941	V3942	L3943	E3944	E3945	Q3946	G3947	K3948	R3949	N3950	F3951	S3952	K3953	A3954	A3958	R3959	Q3960	V3961	F3962	L3965	T3966	M4003	I4040	E3967	Y3968	L3969	Q3970	G3975	N3976	L3980	A3981	H3982	F3989	Q3990							
R3984	L3985	W3986	F3987	A3988	V3989	G3991	F3992	L3993	H3994	V3995	F3996	A3997	H3998	M3999	M4000	M4001	K4002	L4003	A4004	Q4005	Q4006	Q4009	L4012	L4013	D4018	L4019	Q4020	K4021	V4081	D4022	M4023	M4026	L4030	L4031	E4032	G4033	M4034	V4035	M4037	G4038	M4039	I4040	A4041	R4042	V4045	D4046	M4047	L4048	V4049	E4050	S4051	S4052							
S4053	M4054	F4055	M4057	L4058	L4059	K4060	F4061	F4062	P4063	M4064	F4065	L4066	K4067	L4068	M4001	K4002	L4003	A4004	Q4005	Q4006	Q4009	L4012	L4013	D4018	L4019	Q4020	K4021	V4081	D4022	M4023	M4026	L4030	L4031	E4032	G4033	M4034	V4035	M4037	G4038	M4039	I4040	A4041	R4042	V4045	D4046	M4047	L4048	V4049	E4050	S4051	S4052								
F4103	F4104	F4105	F4106	F4107	F4108	Q4109	F4110	L4111	L4112																																																		



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	31599	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	0.771	Depositor
Minimum map value	-0.034	Depositor
Average map value	0.012	Depositor
Map value standard deviation	0.023	Depositor
Recommended contour level	0.106	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: CFF, ZN, CA, ATP

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	F	0.72	1/834 (0.1%)	0.76	3/1123 (0.3%)
1	H	0.73	1/834 (0.1%)	0.76	3/1123 (0.3%)
1	J	0.73	1/834 (0.1%)	0.76	3/1123 (0.3%)
1	O	0.72	1/834 (0.1%)	0.76	3/1123 (0.3%)
2	A	0.40	0/35023	0.51	6/47448 (0.0%)
2	B	0.40	0/35023	0.51	6/47448 (0.0%)
2	G	0.40	0/35023	0.51	6/47448 (0.0%)
2	I	0.40	0/35023	0.51	6/47448 (0.0%)
All	All	0.41	4/143428 (0.0%)	0.52	36/194284 (0.0%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	39	SER	CA-CB	-5.12	1.45	1.52
1	J	39	SER	CA-CB	-5.11	1.45	1.52
1	F	39	SER	CA-CB	-5.08	1.45	1.52
1	O	39	SER	CA-CB	-5.06	1.45	1.52

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	752	VAL	C-N-CA	-9.43	82.41	122.00
2	G	752	VAL	C-N-CA	-9.42	82.42	122.00
2	B	752	VAL	C-N-CA	-9.42	82.42	122.00
2	I	752	VAL	C-N-CA	-9.42	82.42	122.00
2	B	752	VAL	N-CA-C	-7.32	91.23	111.00
2	G	752	VAL	N-CA-C	-7.32	91.25	111.00
2	A	752	VAL	N-CA-C	-7.30	91.28	111.00
2	I	752	VAL	N-CA-C	-7.30	91.28	111.00
1	O	49	ARG	NE-CZ-NH1	5.28	122.94	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	49	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	F	49	ARG	NE-CZ-NH1	5.23	122.91	120.30
2	I	29	LEU	CA-CB-CG	5.22	127.31	115.30
2	A	29	LEU	CA-CB-CG	5.22	127.31	115.30
2	G	29	LEU	CA-CB-CG	5.21	127.29	115.30
2	B	29	LEU	CA-CB-CG	5.21	127.29	115.30
1	J	49	ARG	NE-CZ-NH1	5.20	122.90	120.30
2	I	4989	MET	CB-CG-SD	5.20	128.01	112.40
2	A	4989	MET	CB-CG-SD	5.19	127.98	112.40
2	B	4989	MET	CB-CG-SD	5.19	127.98	112.40
2	G	4989	MET	CB-CG-SD	5.18	127.94	112.40
2	I	749	ASP	N-CA-C	-5.14	97.13	111.00
2	I	3999	MET	CA-CB-CG	5.13	122.02	113.30
2	G	749	ASP	N-CA-C	-5.13	97.16	111.00
2	A	749	ASP	N-CA-C	-5.12	97.17	111.00
2	B	749	ASP	N-CA-C	-5.12	97.19	111.00
2	G	3999	MET	CA-CB-CG	5.11	121.99	113.30
2	A	3999	MET	CA-CB-CG	5.11	121.98	113.30
1	J	25	HIS	N-CA-C	-5.10	97.22	111.00
1	F	25	HIS	N-CA-C	-5.10	97.23	111.00
1	O	25	HIS	N-CA-C	-5.10	97.23	111.00
2	B	3999	MET	CA-CB-CG	5.10	121.96	113.30
1	H	25	HIS	N-CA-C	-5.08	97.28	111.00
1	H	54	GLU	CA-CB-CG	5.06	124.53	113.40
1	J	54	GLU	CA-CB-CG	5.06	124.52	113.40
1	F	54	GLU	CA-CB-CG	5.05	124.52	113.40
1	O	54	GLU	CA-CB-CG	5.05	124.51	113.40

There are no chirality outliers.

There are no planarity outliers.

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	25	0
1	H	818	0	824	24	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	J	818	0	824	23	0
1	O	818	0	824	23	0
2	A	34238	0	33844	1330	0
2	B	34238	0	33844	1337	0
2	G	34238	0	33844	1326	0
2	I	34238	0	33844	1329	0
3	A	31	0	12	5	0
3	B	31	0	12	5	0
3	G	31	0	12	6	0
3	I	31	0	12	6	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	2	0
6	B	14	0	10	2	0
6	G	14	0	10	2	0
6	I	14	0	10	2	0
All	All	140412	0	138760	5318	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 19.

All (5318) 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:G:4983:HIS:HB2	3:G:5301:ATP:HN62	1.25	1.01
2:A:4880:MET:SD	2:G:4578:LEU:O	2.19	1.00
2:A:4983:HIS:HB2	3:A:5301:ATP:HN62	1.25	1.00
2:I:4983:HIS:HB2	3:I:5301:ATP:HN62	1.25	0.99
2:A:4935:LEU:CD2	2:G:4944:ARG:NH2	2.27	0.98
2:B:4983:HIS:HB2	3:B:5301:ATP:HN62	1.25	0.98
2:G:4935:LEU:CD2	2:I:4944:ARG:NH2	2.29	0.95
2:B:4944:ARG:NH2	2:I:4935:LEU:CD2	2.30	0.94
2:B:2604:GLU:HB2	2:B:2639:MET:HG3	1.52	0.92
2:I:2604:GLU:HB2	2:I:2639:MET:HG3	1.52	0.92
1:F:54:GLU:OE1	1:F:54:GLU:N	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2604:GLU:HB2	2:A:2639:MET:HG3	1.51	0.92
1:O:54:GLU:N	1:O:54:GLU:OE1	2.03	0.92
1:H:54:GLU:OE1	1:H:54:GLU:N	2.03	0.91
1:J:54:GLU:OE1	1:J:54:GLU:N	2.03	0.91
2:G:2604:GLU:HB2	2:G:2639:MET:HG3	1.51	0.90
2:A:4000:MET:HA	2:A:4003:LEU:HB2	1.54	0.90
2:G:4000:MET:HA	2:G:4003:LEU:HB2	1.54	0.89
2:A:4944:ARG:NH2	2:B:4935:LEU:CD2	2.36	0.89
2:I:4000:MET:HA	2:I:4003:LEU:HB2	1.54	0.89
2:I:4958:CYS:SG	2:I:4978:HIS:CD2	2.66	0.89
2:A:4958:CYS:SG	2:A:4978:HIS:CD2	2.66	0.88
2:B:4578:LEU:O	2:I:4880:MET:SD	2.32	0.88
2:B:4958:CYS:SG	2:B:4978:HIS:CD2	2.66	0.88
2:B:4000:MET:HA	2:B:4003:LEU:HB2	1.54	0.87
2:G:4958:CYS:SG	2:G:4978:HIS:CD2	2.67	0.87
2:A:4578:LEU:O	2:B:4880:MET:SD	2.33	0.87
2:G:4880:MET:SD	2:I:4578:LEU:O	2.32	0.87
2:B:3980:LEU:HD12	2:B:3985:LEU:HD13	1.57	0.86
2:A:4935:LEU:HD23	2:G:4944:ARG:NH2	1.91	0.85
2:A:3980:LEU:HD12	2:A:3985:LEU:HD13	1.57	0.85
2:B:2528:PRO:HA	2:B:2531:ARG:HG2	1.58	0.85
2:G:2528:PRO:HA	2:G:2531:ARG:HG2	1.58	0.85
2:I:2528:PRO:HA	2:I:2531:ARG:HG2	1.57	0.85
2:A:4000:MET:O	2:A:4004:ALA:N	2.10	0.84
2:G:3980:LEU:HD12	2:G:3985:LEU:HD13	1.57	0.84
2:G:4000:MET:O	2:G:4004:ALA:N	2.10	0.84
2:I:4239:GLU:HA	2:I:4242:ILE:HD12	1.59	0.84
2:G:1100:MET:HE2	2:G:1198:GLN:HB3	1.60	0.84
2:I:4000:MET:O	2:I:4004:ALA:N	2.10	0.84
2:A:2528:PRO:HA	2:A:2531:ARG:HG2	1.58	0.84
1:J:49:ARG:HB3	1:J:49:ARG:HH11	1.43	0.84
2:G:4935:LEU:HD21	2:I:4944:ARG:NH2	1.92	0.84
2:I:3980:LEU:HD12	2:I:3985:LEU:HD13	1.57	0.84
1:O:49:ARG:HB3	1:O:49:ARG:HH11	1.43	0.83
2:B:4000:MET:O	2:B:4004:ALA:N	2.10	0.83
2:A:4239:GLU:HA	2:A:4242:ILE:HD12	1.59	0.83
1:F:49:ARG:HB3	1:F:49:ARG:HH11	1.43	0.83
2:G:4239:GLU:HA	2:G:4242:ILE:HD12	1.59	0.82
2:B:4239:GLU:HA	2:B:4242:ILE:HD12	1.59	0.82
2:A:4935:LEU:HD21	2:G:4944:ARG:HH21	1.43	0.82
2:B:1100:MET:HE2	2:B:1198:GLN:HB3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4189:ARG:NE	2:A:5032:TYR:OH	2.13	0.82
1:H:49:ARG:HB3	1:H:49:ARG:HH11	1.43	0.82
2:G:4189:ARG:NE	2:G:5032:TYR:OH	2.13	0.81
2:I:2707:ALA:HB1	2:I:3009:TYR:HD1	1.45	0.81
2:A:4935:LEU:HD21	2:G:4944:ARG:NH2	1.95	0.81
2:G:2707:ALA:HB1	2:G:3009:TYR:HD1	1.45	0.81
2:A:4935:LEU:HD23	2:G:4944:ARG:HH22	1.44	0.81
2:A:3206:LEU:HA	2:A:3246:LEU:HD23	1.63	0.80
2:G:4935:LEU:HD21	2:I:4944:ARG:HH21	1.45	0.80
2:B:4189:ARG:NE	2:B:5032:TYR:OH	2.13	0.80
2:G:4935:LEU:HD23	2:I:4944:ARG:HH22	1.46	0.80
2:I:111:HIS:HD1	2:I:114:SER:HG	1.27	0.80
2:B:2707:ALA:HB1	2:B:3009:TYR:HD1	1.45	0.80
2:I:4189:ARG:NE	2:I:5032:TYR:OH	2.13	0.80
2:B:4944:ARG:NH2	2:I:4935:LEU:HD23	1.97	0.80
2:B:2619:LEU:HD23	2:B:2623:LEU:HB2	1.65	0.79
2:I:2619:LEU:HD23	2:I:2623:LEU:HB2	1.65	0.79
2:B:2165:LEU:HD13	2:B:2174:GLU:HG3	1.64	0.79
2:B:4944:ARG:NH2	2:I:4935:LEU:HD21	1.94	0.79
2:I:4978:HIS:CE1	2:I:4983:HIS:NE2	2.50	0.79
2:A:2707:ALA:HB1	2:A:3009:TYR:HD1	1.45	0.79
2:A:4978:HIS:CE1	2:A:4983:HIS:NE2	2.50	0.79
2:B:4978:HIS:CE1	2:B:4983:HIS:NE2	2.50	0.79
2:I:3206:LEU:HA	2:I:3246:LEU:HD23	1.63	0.79
2:G:4978:HIS:CE1	2:G:4983:HIS:NE2	2.50	0.79
2:I:2165:LEU:HD13	2:I:2174:GLU:HG3	1.64	0.79
2:B:2531:ARG:HA	2:B:2588:ARG:HH21	1.48	0.79
2:G:3206:LEU:HA	2:G:3246:LEU:HD23	1.63	0.78
2:B:3206:LEU:HA	2:B:3246:LEU:HD23	1.63	0.78
2:A:2619:LEU:HD23	2:A:2623:LEU:HB2	1.65	0.78
2:G:4935:LEU:HD23	2:I:4944:ARG:NH2	1.96	0.78
2:B:4944:ARG:HH21	2:I:4935:LEU:HD21	1.46	0.78
2:I:1100:MET:HE2	2:I:1198:GLN:HB3	1.65	0.78
2:G:2619:LEU:HD23	2:G:2623:LEU:HB2	1.65	0.78
2:A:4689:THR:HG22	2:A:4732:PHE:HE2	1.48	0.78
2:I:2640:PRO:O	2:I:2643:LEU:HB3	1.83	0.78
2:G:2165:LEU:HD13	2:G:2174:GLU:HG3	1.64	0.78
2:B:4944:ARG:HH22	2:I:4935:LEU:HD23	1.47	0.78
2:A:2640:PRO:O	2:A:2643:LEU:HB3	1.83	0.78
2:A:4578:LEU:HD13	2:B:4849:TYR:HE1	1.48	0.78
2:I:4689:THR:OG1	2:I:4690:GLU:OE1	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2531:ARG:HA	2:A:2588:ARG:HH21	1.48	0.77
2:B:2640:PRO:O	2:B:2643:LEU:HB3	1.83	0.77
2:I:3402:CYS:HA	2:I:3405:LEU:HD12	1.67	0.77
2:I:2447:LYS:HG3	2:I:2450:ALA:H	1.50	0.77
2:A:2165:LEU:HD13	2:A:2174:GLU:HG3	1.64	0.77
2:A:2447:LYS:HG3	2:A:2450:ALA:H	1.50	0.77
2:A:4877:ASP:O	2:G:4582:VAL:HG12	1.84	0.77
2:G:2531:ARG:HA	2:G:2588:ARG:HH21	1.48	0.77
2:B:3402:CYS:HA	2:B:3405:LEU:HD12	1.67	0.77
2:G:2640:PRO:O	2:G:2643:LEU:HB3	1.83	0.77
2:I:4189:ARG:NH1	2:I:4191:GLU:OE2	2.18	0.77
2:A:615:ARG:HH21	2:A:2168:VAL:HG21	1.51	0.76
2:A:4689:THR:OG1	2:A:4690:GLU:OE1	2.02	0.76
2:G:4689:THR:HG22	2:G:4732:PHE:HE2	1.48	0.76
2:G:3402:CYS:HA	2:G:3405:LEU:HD12	1.67	0.76
2:I:4990:PHE:HA	2:I:4993:MET:HE2	1.67	0.76
2:A:73:LEU:O	2:A:105:HIS:ND1	2.18	0.76
2:G:320:LYS:NZ	2:G:381:GLU:OE2	2.19	0.76
2:B:320:LYS:NZ	2:B:381:GLU:OE2	2.19	0.76
2:I:3965:LEU:HB3	2:I:4026:MET:HE1	1.67	0.76
2:A:667:MET:SD	2:A:790:ARG:NH2	2.59	0.76
2:G:4189:ARG:NH1	2:G:4191:GLU:OE2	2.18	0.76
2:I:320:LYS:NZ	2:I:381:GLU:OE2	2.19	0.76
2:I:2531:ARG:HA	2:I:2588:ARG:HH21	1.48	0.76
2:A:1269:CYS:SG	2:A:1563:GLN:NE2	2.59	0.76
2:B:2452:ARG:NH2	2:I:175:SER:O	2.18	0.76
2:I:4689:THR:HG22	2:I:4732:PHE:HE2	1.48	0.76
2:G:667:MET:SD	2:G:790:ARG:NH2	2.59	0.76
2:G:4715:TYR:O	2:G:4718:LYS:NZ	2.15	0.76
2:B:667:MET:SD	2:B:790:ARG:NH2	2.59	0.76
2:B:4189:ARG:NH1	2:B:4191:GLU:OE2	2.18	0.76
2:A:3402:CYS:HA	2:A:3405:LEU:HD12	1.67	0.76
2:G:73:LEU:O	2:G:105:HIS:ND1	2.18	0.76
2:B:615:ARG:HH21	2:B:2168:VAL:HG21	1.50	0.76
2:B:1269:CYS:SG	2:B:1563:GLN:NE2	2.59	0.76
2:A:3965:LEU:HB3	2:A:4026:MET:HE1	1.68	0.75
2:A:4944:ARG:NH2	2:B:4935:LEU:HD23	2.00	0.75
2:G:175:SER:O	2:I:2452:ARG:NH2	2.19	0.75
2:B:221:ARG:NH2	2:B:253:CYS:O	2.19	0.75
2:A:4990:PHE:HA	2:A:4993:MET:HE2	1.67	0.75
2:I:2495:VAL:HG12	2:I:2498:HIS:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2296:GLU:HA	2:A:2356:LEU:HD21	1.69	0.75
2:A:4944:ARG:NH2	2:B:4935:LEU:HD21	2.00	0.75
1:H:79:ASP:OD1	1:H:80:VAL:N	2.20	0.75
1:J:79:ASP:OD1	1:J:80:VAL:N	2.20	0.75
2:G:2495:VAL:HG12	2:G:2498:HIS:H	1.50	0.75
2:G:3965:LEU:HB3	2:G:4026:MET:HE1	1.69	0.75
2:G:4689:THR:OG1	2:G:4690:GLU:OE1	2.02	0.75
2:B:4990:PHE:HA	2:B:4993:MET:HE2	1.67	0.75
2:I:667:MET:SD	2:I:790:ARG:NH2	2.59	0.75
2:A:4673:ARG:HH22	2:A:4701:TRP:HB3	1.51	0.75
2:G:2447:LYS:HG3	2:G:2450:ALA:H	1.50	0.75
2:B:3053:ARG:NH1	2:B:3131:TYR:OH	2.20	0.75
2:A:3053:ARG:NH1	2:A:3131:TYR:OH	2.20	0.75
2:B:2296:GLU:HA	2:B:2356:LEU:HD21	1.69	0.75
2:I:4902:GLU:O	2:I:4913:ARG:NH2	2.20	0.75
2:A:1087:ARG:HG3	2:A:1154:ASP:HA	1.69	0.75
2:A:2239:PHE:HD2	2:A:2250:MET:HE2	1.52	0.75
2:G:615:ARG:HH21	2:G:2168:VAL:HG21	1.51	0.75
2:B:1087:ARG:HG3	2:B:1154:ASP:HA	1.69	0.75
2:B:4689:THR:OG1	2:B:4690:GLU:OE1	2.02	0.75
2:A:4902:GLU:O	2:A:4913:ARG:NH2	2.20	0.75
2:B:2239:PHE:HD2	2:B:2250:MET:HE2	1.51	0.75
2:B:4689:THR:HG22	2:B:4732:PHE:HE2	1.48	0.75
2:I:111:HIS:ND1	2:I:114:SER:OG	2.17	0.75
2:I:2754:PHE:HD2	2:I:2813:LEU:HD11	1.52	0.75
2:A:4241:THR:O	2:A:4245:MET:HG3	1.87	0.75
1:O:79:ASP:OD1	1:O:80:VAL:N	2.20	0.75
2:B:4241:THR:O	2:B:4245:MET:HG3	1.87	0.75
1:F:79:ASP:OD1	1:F:80:VAL:N	2.20	0.74
2:A:320:LYS:NZ	2:A:381:GLU:OE2	2.19	0.74
2:A:4189:ARG:NH1	2:A:4191:GLU:OE2	2.18	0.74
2:G:4673:ARG:HH22	2:G:4701:TRP:HB3	1.51	0.74
2:G:4990:PHE:HA	2:G:4993:MET:HE2	1.67	0.74
2:B:2447:LYS:HG3	2:B:2450:ALA:H	1.50	0.74
2:B:4673:ARG:HH22	2:B:4701:TRP:HB3	1.51	0.74
2:I:1087:ARG:HG3	2:I:1154:ASP:HA	1.69	0.74
2:A:2495:VAL:HG12	2:A:2498:HIS:H	1.50	0.74
2:A:4944:ARG:HH22	2:B:4935:LEU:HD23	1.52	0.74
2:G:2239:PHE:HD2	2:G:2250:MET:HE2	1.52	0.74
2:I:221:ARG:NH2	2:I:253:CYS:O	2.19	0.74
2:I:3053:ARG:NH1	2:I:3131:TYR:OH	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:221:ARG:NH2	2:A:253:CYS:O	2.19	0.74
2:G:3208:PRO:HA	2:G:3211:ASN:HB2	1.69	0.74
2:I:2239:PHE:HD2	2:I:2250:MET:HE2	1.51	0.74
2:G:1087:ARG:HG3	2:G:1154:ASP:HA	1.69	0.74
2:B:3965:LEU:HB3	2:B:4026:MET:HE1	1.70	0.74
2:I:1269:CYS:SG	2:I:1563:GLN:NE2	2.59	0.74
2:I:4673:ARG:HH22	2:I:4701:TRP:HB3	1.51	0.74
2:G:221:ARG:NH2	2:G:253:CYS:O	2.19	0.74
2:G:1269:CYS:SG	2:G:1563:GLN:NE2	2.59	0.74
2:G:3053:ARG:NH1	2:G:3131:TYR:OH	2.20	0.74
2:I:3208:PRO:HA	2:I:3211:ASN:HB2	1.69	0.74
2:I:4241:THR:O	2:I:4245:MET:HG3	1.87	0.74
2:A:2243:SER:OG	2:A:2246:ASN:OD1	2.05	0.74
2:A:2754:PHE:HD2	2:A:2813:LEU:HD11	1.51	0.74
1:F:23:VAL:HG12	1:F:47:LYS:HG2	1.70	0.73
2:A:111:HIS:ND1	2:A:114:SER:OG	2.17	0.73
2:B:2243:SER:OG	2:B:2246:ASN:OD1	2.05	0.73
2:B:4902:GLU:O	2:B:4913:ARG:NH2	2.20	0.73
2:I:615:ARG:HH21	2:I:2168:VAL:HG21	1.50	0.73
2:A:4944:ARG:HH21	2:B:4935:LEU:HD21	1.53	0.73
2:G:2754:PHE:HD2	2:G:2813:LEU:HD11	1.51	0.73
2:G:4241:THR:O	2:G:4245:MET:HG3	1.87	0.73
2:G:4902:GLU:O	2:G:4913:ARG:NH2	2.20	0.73
2:B:2288:LEU:HD22	2:B:3853:ALA:HB2	1.70	0.73
2:B:3208:PRO:HA	2:B:3211:ASN:HB2	1.69	0.73
1:H:23:VAL:HG12	1:H:47:LYS:HG2	1.70	0.73
1:O:23:VAL:HG12	1:O:47:LYS:HG2	1.70	0.73
2:G:2296:GLU:HA	2:G:2356:LEU:HD21	1.69	0.73
2:B:111:HIS:ND1	2:B:114:SER:OG	2.17	0.73
2:I:2296:GLU:HA	2:I:2356:LEU:HD21	1.69	0.73
2:I:2288:LEU:HD22	2:I:3853:ALA:HB2	1.70	0.73
2:I:2243:SER:OG	2:I:2246:ASN:OD1	2.05	0.73
1:J:23:VAL:HG12	1:J:47:LYS:HG2	1.70	0.73
2:B:2495:VAL:HG12	2:B:2498:HIS:H	1.50	0.73
2:I:4722:ARG:HG2	2:I:4748:LEU:HD11	1.70	0.73
2:A:3992:PHE:O	2:A:3996:PHE:N	2.22	0.73
2:I:2694:GLU:OE1	2:I:2694:GLU:N	2.22	0.73
2:G:111:HIS:ND1	2:G:114:SER:OG	2.17	0.73
2:B:2754:PHE:HD2	2:B:2813:LEU:HD11	1.51	0.73
2:G:2243:SER:OG	2:G:2246:ASN:OD1	2.05	0.72
2:G:4722:ARG:HG2	2:G:4748:LEU:HD11	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3208:PRO:HA	2:A:3211:ASN:HB2	1.69	0.72
2:G:4913:ARG:NH1	2:I:4888:TYR:OH	2.22	0.72
2:B:158:SER:N	2:B:161:GLU:OE2	2.22	0.72
2:B:4722:ARG:HG2	2:B:4748:LEU:HD11	1.71	0.72
2:I:4715:TYR:O	2:I:4718:LYS:NZ	2.15	0.72
2:A:2288:LEU:HD22	2:A:3853:ALA:HB2	1.70	0.72
2:A:2433:LEU:HD13	2:A:2460:LEU:HD21	1.72	0.72
2:A:4715:TYR:O	2:A:4718:LYS:NZ	2.15	0.72
2:G:101:LEU:HB2	2:G:163:VAL:HG21	1.72	0.72
2:G:3992:PHE:HA	2:G:3995:VAL:HB	1.72	0.72
2:B:1115:LEU:HD23	2:B:1123:VAL:HG11	1.72	0.72
2:I:2195:PRO:HA	2:I:2198:MET:HE2	1.72	0.72
2:G:2288:LEU:HD22	2:G:3853:ALA:HB2	1.70	0.71
2:A:1147:ASP:OD1	2:A:1165:ASN:ND2	2.24	0.71
2:B:3992:PHE:O	2:B:3996:PHE:N	2.22	0.71
2:I:1115:LEU:HD23	2:I:1123:VAL:HG11	1.72	0.71
2:I:1230:MET:SD	2:I:1827:ARG:NH2	2.63	0.71
2:A:4035:VAL:HA	2:A:4189:ARG:NH2	2.06	0.71
2:A:4722:ARG:HG2	2:A:4748:LEU:HD11	1.71	0.71
2:B:101:LEU:HB2	2:B:163:VAL:HG21	1.72	0.71
2:I:101:LEU:HB2	2:I:163:VAL:HG21	1.72	0.71
2:A:175:SER:O	2:G:2452:ARG:NH2	2.23	0.71
2:I:3992:PHE:O	2:I:3996:PHE:N	2.22	0.71
2:A:101:LEU:HB2	2:A:163:VAL:HG21	1.72	0.71
2:G:1230:MET:SD	2:G:1827:ARG:NH2	2.64	0.71
2:G:2694:GLU:OE1	2:G:2694:GLU:N	2.22	0.71
2:G:4035:VAL:HA	2:G:4189:ARG:NH2	2.06	0.71
2:I:3992:PHE:HA	2:I:3995:VAL:HB	1.72	0.71
2:G:1115:LEU:HD23	2:G:1123:VAL:HG11	1.72	0.71
2:A:158:SER:N	2:A:161:GLU:OE2	2.23	0.71
2:A:1101:ARG:NH1	2:A:1114:GLU:OE1	2.24	0.71
2:G:2433:LEU:HD13	2:G:2460:LEU:HD21	1.72	0.71
2:A:2195:PRO:HA	2:A:2198:MET:HE2	1.72	0.71
2:B:3550:ARG:HG3	2:B:3597:GLN:HG3	1.73	0.71
2:I:4035:VAL:HA	2:I:4189:ARG:NH2	2.06	0.71
2:A:3283:ARG:HH21	2:A:3287:ARG:HH22	1.37	0.71
2:G:3283:ARG:HH21	2:G:3287:ARG:HH22	1.37	0.71
2:B:2433:LEU:HD13	2:B:2460:LEU:HD21	1.72	0.71
2:B:4035:VAL:HA	2:B:4189:ARG:NH2	2.06	0.71
2:A:1115:LEU:HD23	2:A:1123:VAL:HG11	1.72	0.70
2:A:3992:PHE:HA	2:A:3995:VAL:HB	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:972:LEU:O	2:G:976:ARG:NH1	2.24	0.70
2:B:2694:GLU:OE1	2:B:2694:GLU:N	2.22	0.70
2:I:4688:ILE:HG23	2:I:4689:THR:HG23	1.73	0.70
2:A:2452:ARG:NH2	2:B:175:SER:O	2.24	0.70
2:B:1230:MET:SD	2:B:1827:ARG:NH2	2.64	0.70
2:G:1147:ASP:OD1	2:G:1165:ASN:ND2	2.24	0.70
2:B:2195:PRO:HA	2:B:2198:MET:HE2	1.72	0.70
2:B:3049:LEU:O	2:B:3053:ARG:NE	2.24	0.70
2:B:3992:PHE:HA	2:B:3995:VAL:HB	1.72	0.70
2:I:158:SER:N	2:I:161:GLU:OE2	2.22	0.70
2:I:1101:ARG:NH1	2:I:1114:GLU:OE1	2.24	0.70
2:A:1018:ASN:HB2	2:A:1021:LEU:HD23	1.73	0.70
2:G:1018:ASN:HB2	2:G:1021:LEU:HD23	1.73	0.70
2:G:3992:PHE:O	2:G:3996:PHE:N	2.22	0.70
2:A:1230:MET:SD	2:A:1827:ARG:NH2	2.64	0.70
2:A:3550:ARG:HG3	2:A:3597:GLN:HG3	1.73	0.70
2:A:4688:ILE:HG23	2:A:4689:THR:HG23	1.73	0.70
2:B:1147:ASP:OD1	2:B:1165:ASN:ND2	2.24	0.70
2:B:4688:ILE:HG23	2:B:4689:THR:HG23	1.74	0.70
2:I:4251:ILE:HA	2:I:4553:ASN:HB3	1.74	0.70
2:B:1101:ARG:NH1	2:B:1114:GLU:OE1	2.24	0.70
2:I:1147:ASP:OD1	2:I:1165:ASN:ND2	2.24	0.70
2:A:2646:ASN:O	2:A:2650:ARG:N	2.24	0.70
2:G:149:THR:HG22	2:G:150:MET:H	1.55	0.70
2:G:1101:ARG:NH1	2:G:1114:GLU:OE1	2.24	0.70
2:G:4688:ILE:HG23	2:G:4689:THR:HG23	1.73	0.70
2:B:4715:TYR:O	2:B:4718:LYS:NZ	2.15	0.70
2:A:149:THR:HG22	2:A:150:MET:H	1.55	0.70
2:B:73:LEU:O	2:B:105:HIS:ND1	2.18	0.70
2:B:3283:ARG:HH21	2:B:3287:ARG:HH22	1.37	0.70
2:I:972:LEU:O	2:I:976:ARG:NH1	2.25	0.70
2:A:3049:LEU:O	2:A:3053:ARG:NE	2.24	0.70
2:B:972:LEU:O	2:B:976:ARG:NH1	2.25	0.70
2:I:3550:ARG:HG3	2:I:3597:GLN:HG3	1.73	0.70
2:A:972:LEU:O	2:A:976:ARG:NH1	2.25	0.70
2:G:4049:VAL:HA	2:G:4052:SER:HB3	1.74	0.70
2:G:4251:ILE:HA	2:G:4553:ASN:HB3	1.74	0.70
2:B:149:THR:HG22	2:B:150:MET:H	1.55	0.70
2:I:73:LEU:O	2:I:105:HIS:ND1	2.18	0.70
2:I:149:THR:HG22	2:I:150:MET:H	1.55	0.69
2:I:1980:LEU:O	2:I:1984:PHE:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2433:LEU:HD13	2:I:2460:LEU:HD21	1.72	0.69
2:I:2827:ARG:NH2	2:I:2935:TYR:O	2.25	0.69
2:B:4658:ILE:HD13	2:B:4796:MET:HE3	1.75	0.69
1:O:3:GLU:OE1	1:O:75:THR:OG1	2.10	0.69
2:G:4732:PHE:HB3	2:G:4736:ARG:HH11	1.57	0.69
2:I:4049:VAL:HA	2:I:4052:SER:HB3	1.74	0.69
2:G:125:ARG:NH2	2:G:191:VAL:O	2.26	0.69
2:G:465:GLN:N	2:G:465:GLN:OE1	2.26	0.69
2:G:1980:LEU:O	2:G:1984:PHE:N	2.25	0.69
2:I:4658:ILE:HD13	2:I:4796:MET:HE3	1.75	0.69
2:G:3550:ARG:HG3	2:G:3597:GLN:HG3	1.74	0.69
2:G:4658:ILE:HD13	2:G:4796:MET:HE3	1.73	0.69
2:A:125:ARG:NH2	2:A:191:VAL:O	2.26	0.69
2:G:573:GLU:OE1	2:G:573:GLU:N	2.24	0.69
2:G:4843:LEU:HB2	2:I:4823:LEU:HD11	1.75	0.69
2:I:3283:ARG:HH21	2:I:3287:ARG:HH22	1.37	0.69
2:A:104:GLY:H	2:A:150:MET:HB3	1.57	0.69
2:G:2646:ASN:O	2:G:2650:ARG:N	2.24	0.69
2:G:2827:ARG:NH2	2:G:2935:TYR:O	2.25	0.69
2:B:465:GLN:OE1	2:B:465:GLN:N	2.26	0.69
2:B:3995:VAL:O	2:B:3999:MET:HG2	1.92	0.69
2:B:4888:TYR:OH	2:I:4913:ARG:NH1	2.25	0.69
2:I:465:GLN:OE1	2:I:465:GLN:N	2.26	0.69
2:I:2646:ASN:O	2:I:2650:ARG:N	2.24	0.69
2:I:2650:ARG:NH2	2:I:2651:CYS:SG	2.66	0.69
2:A:2608:MET:O	2:A:2612:ARG:NH2	2.26	0.69
2:A:2650:ARG:NH2	2:A:2651:CYS:SG	2.66	0.69
2:A:4049:VAL:HA	2:A:4052:SER:HB3	1.74	0.69
2:A:4732:PHE:HB3	2:A:4736:ARG:HH11	1.57	0.69
2:A:4860:ARG:O	2:A:4874:MET:HE1	1.92	0.69
1:J:3:GLU:OE1	1:J:75:THR:OG1	2.10	0.69
2:G:4860:ARG:O	2:G:4874:MET:HE1	1.93	0.69
2:B:1980:LEU:O	2:B:1984:PHE:N	2.25	0.69
2:B:2646:ASN:O	2:B:2650:ARG:N	2.24	0.69
2:B:2827:ARG:NH2	2:B:2935:TYR:O	2.25	0.69
2:B:4251:ILE:HA	2:B:4553:ASN:HB3	1.74	0.69
2:I:1018:ASN:HB2	2:I:1021:LEU:HD23	1.73	0.69
2:I:4732:PHE:HB3	2:I:4736:ARG:HH11	1.57	0.69
2:A:1100:MET:HE2	2:A:1198:GLN:HB3	1.74	0.69
2:A:2524:VAL:HA	2:A:2528:PRO:HG2	1.75	0.69
2:A:2694:GLU:OE1	2:A:2694:GLU:N	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2150:GLU:OE1	2:G:2150:GLU:N	2.25	0.69
2:G:2650:ARG:NH2	2:G:2651:CYS:SG	2.66	0.69
2:I:2608:MET:O	2:I:2612:ARG:NH2	2.26	0.69
2:A:3995:VAL:O	2:A:3999:MET:HG2	1.92	0.69
1:O:32:ASN:OD1	1:O:33:GLY:N	2.26	0.69
2:G:158:SER:N	2:G:161:GLU:OE2	2.22	0.69
1:J:32:ASN:OD1	1:J:33:GLY:N	2.26	0.68
2:G:1012:ASP:HB3	2:G:1015:ALA:HB3	1.74	0.68
2:G:1568:LYS:NZ	2:G:1569:GLN:O	2.26	0.68
2:G:2608:MET:O	2:G:2612:ARG:NH2	2.26	0.68
2:B:2524:VAL:HA	2:B:2528:PRO:HG2	1.75	0.68
2:B:2608:MET:O	2:B:2612:ARG:NH2	2.26	0.68
2:I:1260:MET:SD	2:I:1271:ARG:NH2	2.66	0.68
2:A:1260:MET:SD	2:A:1271:ARG:NH2	2.66	0.68
2:A:2827:ARG:NH2	2:A:2935:TYR:O	2.25	0.68
2:A:4251:ILE:HA	2:A:4553:ASN:HB3	1.74	0.68
2:G:3995:VAL:O	2:G:3999:MET:HG2	1.92	0.68
2:B:2650:ARG:NH2	2:B:2651:CYS:SG	2.66	0.68
2:I:3400:VAL:HG22	2:I:3403:ARG:HH12	1.59	0.68
1:F:3:GLU:OE1	1:F:75:THR:OG1	2.10	0.68
2:A:465:GLN:OE1	2:A:465:GLN:N	2.26	0.68
2:A:3950:ASN:OD1	2:A:3953:LYS:NZ	2.27	0.68
2:G:607:CYS:SG	2:G:608:VAL:N	2.67	0.68
2:G:2524:VAL:HA	2:G:2528:PRO:HG2	1.75	0.68
2:B:3950:ASN:OD1	2:B:3953:LYS:NZ	2.27	0.68
2:I:3995:VAL:O	2:I:3999:MET:HG2	1.92	0.68
1:F:32:ASN:OD1	1:F:33:GLY:N	2.26	0.68
2:A:573:GLU:OE1	2:A:573:GLU:N	2.25	0.68
2:A:1980:LEU:O	2:A:1984:PHE:N	2.25	0.68
2:A:2614:ILE:HD11	2:A:2618:MET:HG2	1.76	0.68
2:B:1568:LYS:NZ	2:B:1569:GLN:O	2.26	0.68
2:I:299:LEU:HD13	2:I:378:LEU:HG	1.76	0.68
2:I:1012:ASP:HB3	2:I:1015:ALA:HB3	1.74	0.68
2:I:3934:TYR:HB2	2:I:3999:MET:HE1	1.75	0.68
2:A:683:ARG:NH2	2:A:709:ASP:OD2	2.27	0.68
2:A:1568:LYS:NZ	2:A:1569:GLN:O	2.26	0.68
1:H:32:ASN:OD1	1:H:33:GLY:N	2.26	0.68
2:G:104:GLY:H	2:G:150:MET:HB3	1.57	0.68
2:G:299:LEU:HD13	2:G:378:LEU:HG	1.76	0.68
2:B:1018:ASN:HB2	2:B:1021:LEU:HD23	1.73	0.68
2:B:2614:ILE:HD11	2:B:2618:MET:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2461:VAL:O	2:A:2510:TYR:OH	2.10	0.68
2:A:3400:VAL:HG22	2:A:3403:ARG:HH12	1.59	0.68
2:G:2195:PRO:HA	2:G:2198:MET:HE2	1.73	0.68
2:B:1012:ASP:HB3	2:B:1015:ALA:HB3	1.74	0.68
2:B:1020:ARG:HB2	2:B:1027:LEU:HD11	1.75	0.68
2:B:4732:PHE:HB3	2:B:4736:ARG:HH11	1.57	0.68
2:I:104:GLY:H	2:I:150:MET:HB3	1.57	0.68
2:I:3950:ASN:OD1	2:I:3953:LYS:NZ	2.27	0.68
2:I:4860:ARG:O	2:I:4874:MET:HE1	1.93	0.68
2:A:2237:CYS:SG	2:A:2241:ARG:NH1	2.67	0.68
1:H:3:GLU:OE1	1:H:75:THR:OG1	2.10	0.68
2:G:3049:LEU:O	2:G:3053:ARG:NE	2.24	0.68
2:B:3934:TYR:HB2	2:B:3999:MET:HE1	1.74	0.68
2:B:4049:VAL:HA	2:B:4052:SER:HB3	1.74	0.68
2:I:1568:LYS:NZ	2:I:1569:GLN:O	2.26	0.68
2:A:1012:ASP:HB3	2:A:1015:ALA:HB3	1.74	0.68
2:A:4177:TYR:CE1	2:A:4199:GLU:HB3	2.29	0.68
2:B:3400:VAL:HG22	2:B:3403:ARG:HH12	1.59	0.68
2:I:4177:TYR:CE1	2:I:4199:GLU:HB3	2.29	0.68
2:A:3984:ARG:HH11	2:A:3986:TRP:HB2	1.59	0.68
2:I:607:CYS:SG	2:I:608:VAL:N	2.67	0.68
2:I:2524:VAL:HA	2:I:2528:PRO:HG2	1.75	0.68
2:I:3049:LEU:O	2:I:3053:ARG:NE	2.24	0.68
2:A:607:CYS:SG	2:A:608:VAL:N	2.67	0.68
2:A:711:LEU:HD12	2:A:1491:ASN:HB3	1.76	0.68
2:B:299:LEU:HD13	2:B:378:LEU:HG	1.76	0.68
2:B:3901:ASN:HA	2:B:3904:ARG:NH2	2.09	0.68
2:I:125:ARG:NH2	2:I:191:VAL:O	2.26	0.68
2:G:676:THR:HG22	2:G:677:ALA:H	1.60	0.67
2:G:3400:VAL:HG22	2:G:3403:ARG:HH12	1.59	0.67
2:G:3950:ASN:OD1	2:G:3953:LYS:NZ	2.27	0.67
2:G:4177:TYR:CE1	2:G:4199:GLU:HB3	2.29	0.67
2:B:125:ARG:NH2	2:B:191:VAL:O	2.26	0.67
2:I:676:THR:HG22	2:I:677:ALA:H	1.59	0.67
2:I:2237:CYS:SG	2:I:2241:ARG:NH1	2.67	0.67
2:G:24:CYS:HB3	2:G:182:LEU:HD22	1.76	0.67
2:G:2237:CYS:SG	2:G:2241:ARG:NH1	2.67	0.67
2:G:3901:ASN:HA	2:G:3904:ARG:NH2	2.09	0.67
2:B:104:GLY:H	2:B:150:MET:HB3	1.58	0.67
2:B:607:CYS:SG	2:B:608:VAL:N	2.67	0.67
2:B:3984:ARG:HH11	2:B:3986:TRP:HB2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4248:ALA:O	2:B:4252:SER:N	2.28	0.67
2:A:676:THR:HG22	2:A:677:ALA:H	1.59	0.67
2:A:3901:ASN:HA	2:A:3904:ARG:NH2	2.09	0.67
2:G:3984:ARG:HH11	2:G:3986:TRP:HB2	1.59	0.67
2:B:2128:TYR:OH	2:B:3676:ASP:OD2	2.11	0.67
2:I:1020:ARG:HB2	2:I:1027:LEU:HD11	1.75	0.67
2:A:1020:ARG:HB2	2:A:1027:LEU:HD11	1.75	0.67
2:A:3552:PHE:O	2:A:3556:ASN:ND2	2.28	0.67
2:A:4823:LEU:HD11	2:B:4843:LEU:HB2	1.75	0.67
2:B:1260:MET:SD	2:B:1271:ARG:NH2	2.66	0.67
2:B:4860:ARG:O	2:B:4874:MET:HE1	1.92	0.67
2:I:3984:ARG:HH11	2:I:3986:TRP:HB2	1.59	0.67
2:A:929:LEU:HD23	2:A:932:LEU:HD12	1.77	0.67
2:A:2128:TYR:OH	2:A:3676:ASP:OD2	2.11	0.67
2:G:711:LEU:HD12	2:G:1491:ASN:HB3	1.77	0.67
2:G:1020:ARG:HB2	2:G:1027:LEU:HD11	1.75	0.67
2:G:1260:MET:SD	2:G:1271:ARG:NH2	2.66	0.67
2:B:676:THR:HG22	2:B:677:ALA:H	1.60	0.67
2:B:4177:TYR:CE1	2:B:4199:GLU:HB3	2.29	0.67
2:I:24:CYS:HB3	2:I:182:LEU:HD22	1.76	0.67
2:G:2128:TYR:OH	2:G:3676:ASP:OD2	2.11	0.67
2:B:2150:GLU:OE1	2:B:2150:GLU:N	2.25	0.67
2:B:2237:CYS:SG	2:B:2241:ARG:NH1	2.67	0.67
2:I:2128:TYR:OH	2:I:3676:ASP:OD2	2.11	0.67
2:I:2461:VAL:O	2:I:2510:TYR:OH	2.10	0.67
2:A:2000:SER:O	2:A:2005:GLN:NE2	2.28	0.67
2:B:4578:LEU:HD13	2:I:4849:TYR:HE1	1.58	0.67
2:I:4248:ALA:O	2:I:4252:SER:N	2.28	0.67
2:A:753:PRO:HG3	2:A:773:LEU:HD11	1.77	0.67
2:A:4248:ALA:O	2:A:4252:SER:N	2.28	0.67
2:B:929:LEU:HD23	2:B:932:LEU:HD12	1.77	0.67
2:I:3552:PHE:O	2:I:3556:ASN:ND2	2.28	0.67
2:B:932:LEU:HD22	2:B:984:LEU:HD11	1.77	0.67
2:B:711:LEU:HD12	2:B:1491:ASN:HB3	1.76	0.67
2:B:3552:PHE:O	2:B:3556:ASN:ND2	2.28	0.67
2:A:299:LEU:HD13	2:A:378:LEU:HG	1.76	0.66
2:G:2000:SER:O	2:G:2005:GLN:NE2	2.28	0.66
2:G:4849:TYR:HE1	2:I:4578:LEU:HD13	1.58	0.66
2:I:711:LEU:HD12	2:I:1491:ASN:HB3	1.76	0.66
2:I:3901:ASN:HA	2:I:3904:ARG:NH2	2.09	0.66
2:A:983:THR:O	2:A:987:ARG:NH1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2823:ILE:HG13	2:A:2937:VAL:HG23	1.77	0.66
2:A:4888:TYR:OH	2:B:4913:ARG:NH1	2.28	0.66
2:G:753:PRO:HG3	2:G:773:LEU:HD11	1.77	0.66
2:B:2823:ILE:HG13	2:B:2937:VAL:HG23	1.78	0.66
2:I:2614:ILE:HD11	2:I:2618:MET:HG2	1.76	0.66
2:A:2165:LEU:HD11	2:A:2177:LEU:HD22	1.77	0.66
2:B:818:ARG:NH1	2:B:1027:LEU:O	2.28	0.66
2:B:2000:SER:O	2:B:2005:GLN:NE2	2.28	0.66
2:I:273:HIS:ND1	2:I:334:MET:O	2.27	0.66
2:I:983:THR:O	2:I:987:ARG:NH1	2.29	0.66
2:A:2150:GLU:N	2:A:2150:GLU:OE1	2.25	0.66
2:I:932:LEU:HD22	2:I:984:LEU:HD11	1.77	0.66
2:I:2000:SER:O	2:I:2005:GLN:NE2	2.28	0.66
2:G:929:LEU:HD23	2:G:932:LEU:HD12	1.77	0.66
2:G:2614:ILE:HD11	2:G:2618:MET:HG2	1.76	0.66
2:B:24:CYS:HB3	2:B:182:LEU:HD22	1.76	0.66
2:B:4823:LEU:HD11	2:I:4843:LEU:HB2	1.77	0.66
2:I:2150:GLU:N	2:I:2150:GLU:OE1	2.25	0.66
2:G:1821:ASP:HA	2:G:1824:GLN:HB2	1.78	0.66
2:B:978:THR:N	2:B:981:GLN:OE1	2.29	0.66
2:B:4582:VAL:HG12	2:I:4877:ASP:O	1.95	0.66
2:I:573:GLU:OE1	2:I:573:GLU:N	2.25	0.66
2:I:818:ARG:NH1	2:I:1027:LEU:O	2.28	0.66
2:I:1821:ASP:HA	2:I:1824:GLN:HB2	1.78	0.66
2:A:978:THR:N	2:A:981:GLN:OE1	2.29	0.66
2:G:932:LEU:HD22	2:G:984:LEU:HD11	1.77	0.66
2:G:2461:VAL:O	2:G:2510:TYR:OH	2.10	0.66
2:I:753:PRO:HG3	2:I:773:LEU:HD11	1.77	0.66
2:A:932:LEU:HD22	2:A:984:LEU:HD11	1.77	0.66
2:A:3010:PHE:O	2:A:3014:CYS:N	2.29	0.66
2:A:4839:MET:SD	2:G:4820:VAL:HG11	2.35	0.66
2:G:983:THR:O	2:G:987:ARG:NH1	2.28	0.66
2:G:2165:LEU:HD11	2:G:2177:LEU:HD22	1.78	0.66
2:G:3934:TYR:HB2	2:G:3999:MET:HE1	1.78	0.66
2:I:3010:PHE:O	2:I:3014:CYS:N	2.29	0.66
2:G:978:THR:N	2:G:981:GLN:OE1	2.29	0.66
2:G:3010:PHE:O	2:G:3014:CYS:N	2.29	0.66
2:G:3552:PHE:O	2:G:3556:ASN:ND2	2.28	0.66
2:I:683:ARG:NH2	2:I:709:ASP:OD2	2.27	0.66
2:I:929:LEU:HD23	2:I:932:LEU:HD12	1.77	0.66
2:I:978:THR:N	2:I:981:GLN:OE1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2823:ILE:HG13	2:I:2937:VAL:HG23	1.78	0.66
2:I:4701:TRP:HE1	2:I:4778:TRP:HA	1.61	0.66
2:A:1695:LEU:HB3	2:A:1810:LYS:HZ3	1.61	0.66
2:G:2788:HIS:HB3	2:G:2791:LEU:HG	1.78	0.66
2:B:4687:TYR:CE2	2:B:4692:PRO:HG3	2.32	0.66
2:B:4701:TRP:HE1	2:B:4778:TRP:HA	1.61	0.66
2:A:779:PRO:HB2	2:A:791:PHE:HZ	1.61	0.65
2:G:779:PRO:HB2	2:G:791:PHE:HZ	1.61	0.65
2:G:4248:ALA:O	2:G:4252:SER:N	2.28	0.65
2:I:2384:ILE:HD13	2:I:2494:PHE:CE1	2.32	0.65
2:I:2788:HIS:HB3	2:I:2791:LEU:HG	1.78	0.65
2:A:1095:VAL:HB	2:A:1199:VAL:HG23	1.78	0.65
2:A:4687:TYR:CE2	2:A:4692:PRO:HG3	2.32	0.65
2:A:4843:LEU:HB2	2:G:4823:LEU:HD11	1.77	0.65
2:G:683:ARG:NH2	2:G:709:ASP:OD2	2.27	0.65
2:G:3150:HIS:HB3	2:G:3152:PHE:CD2	2.31	0.65
2:I:2165:LEU:HD11	2:I:2177:LEU:HD22	1.77	0.65
2:A:24:CYS:HB3	2:A:182:LEU:HD22	1.76	0.65
2:A:818:ARG:NH1	2:A:1027:LEU:O	2.28	0.65
2:A:1821:ASP:HA	2:A:1824:GLN:HB2	1.78	0.65
2:A:4823:LEU:HD12	2:B:4843:LEU:HD22	1.78	0.65
2:B:683:ARG:NH2	2:B:709:ASP:OD2	2.27	0.65
2:B:983:THR:O	2:B:987:ARG:NH1	2.29	0.65
2:I:890:GLY:HA3	2:I:902:ARG:HD3	1.78	0.65
2:A:3950:ASN:HA	2:A:3953:LYS:HZ2	1.61	0.65
2:G:818:ARG:NH1	2:G:1027:LEU:O	2.28	0.65
2:G:1095:VAL:HB	2:G:1199:VAL:HG23	1.78	0.65
2:B:2165:LEU:HD11	2:B:2177:LEU:HD22	1.78	0.65
2:I:779:PRO:HB2	2:I:791:PHE:HZ	1.61	0.65
2:A:2151:ASP:OD2	2:A:2189:LYS:NZ	2.20	0.65
2:A:4578:LEU:HD13	2:B:4849:TYR:CE1	2.31	0.65
2:G:3997:ALA:HB2	2:G:4058:ILE:HG12	1.78	0.65
2:G:4687:TYR:CE2	2:G:4692:PRO:HG3	2.32	0.65
2:G:652:ARG:HD3	2:G:773:LEU:HD13	1.79	0.65
2:G:4715:TYR:HD1	2:G:4717:ASP:H	1.44	0.65
2:B:573:GLU:OE1	2:B:573:GLU:N	2.25	0.65
2:B:779:PRO:HB2	2:B:791:PHE:HZ	1.61	0.65
2:B:3997:ALA:HB2	2:B:4058:ILE:HG12	1.78	0.65
2:I:1095:VAL:HB	2:I:1199:VAL:HG23	1.79	0.65
2:I:4687:TYR:CE2	2:I:4692:PRO:HG3	2.32	0.65
2:A:273:HIS:ND1	2:A:334:MET:O	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2384:ILE:HD13	2:G:2494:PHE:CE1	2.32	0.65
2:B:273:HIS:ND1	2:B:334:MET:O	2.27	0.65
2:A:4658:ILE:HD13	2:A:4796:MET:HE3	1.77	0.65
2:G:890:GLY:HA3	2:G:902:ARG:HD3	1.78	0.65
2:G:2537:ASP:O	2:G:2593:ARG:NH2	2.30	0.65
2:G:4701:TRP:HE1	2:G:4778:TRP:HA	1.61	0.65
2:B:652:ARG:HD3	2:B:773:LEU:HD13	1.79	0.65
2:B:1821:ASP:HA	2:B:1824:GLN:HB2	1.78	0.65
2:B:2537:ASP:O	2:B:2593:ARG:NH2	2.30	0.65
2:B:3150:HIS:HB3	2:B:3152:PHE:CD2	2.31	0.65
2:A:3535:LEU:O	2:A:3538:THR:HB	1.97	0.65
2:B:753:PRO:HG3	2:B:773:LEU:HD11	1.77	0.65
2:B:1095:VAL:HB	2:B:1199:VAL:HG23	1.79	0.65
2:B:3535:LEU:O	2:B:3538:THR:HB	1.97	0.65
2:I:652:ARG:HD3	2:I:773:LEU:HD13	1.79	0.65
2:A:1099:GLU:OE2	2:A:1101:ARG:NH2	2.30	0.65
2:A:3150:HIS:HB3	2:A:3152:PHE:CD2	2.31	0.65
2:A:4701:TRP:HE1	2:A:4778:TRP:HA	1.61	0.65
2:G:1099:GLU:OE2	2:G:1101:ARG:NH2	2.30	0.65
2:B:3010:PHE:O	2:B:3014:CYS:N	2.29	0.65
2:B:4237:PHE:HA	2:B:4240:ASP:HB2	1.79	0.65
2:I:2375:GLY:O	2:I:2379:ALA:N	2.29	0.65
2:I:3150:HIS:HB3	2:I:3152:PHE:CD2	2.31	0.65
2:A:4913:ARG:NH1	2:G:4888:TYR:OH	2.29	0.64
2:I:1099:GLU:OE2	2:I:1101:ARG:NH2	2.30	0.64
2:I:2537:ASP:O	2:I:2593:ARG:NH2	2.30	0.64
2:A:3313:ASN:ND2	2:A:3350:ARG:H	1.96	0.64
2:G:3336:LYS:NZ	2:G:3462:ASN:O	2.30	0.64
2:G:4023:MET:HE3	2:G:4026:MET:HG3	1.79	0.64
2:B:1099:GLU:OE2	2:B:1101:ARG:NH2	2.30	0.64
2:I:978:THR:OG1	2:I:981:GLN:NE2	2.30	0.64
2:I:2751:LEU:HD13	2:I:2813:LEU:HB3	1.78	0.64
2:I:3313:ASN:ND2	2:I:3350:ARG:H	1.96	0.64
2:A:2703:LEU:HA	2:A:2706:ILE:HD12	1.80	0.64
2:A:3997:ALA:HB2	2:A:4058:ILE:HG12	1.78	0.64
2:G:2823:ILE:HG13	2:G:2937:VAL:HG23	1.77	0.64
2:I:3535:LEU:O	2:I:3538:THR:HB	1.97	0.64
2:A:2537:ASP:O	2:A:2593:ARG:NH2	2.30	0.64
2:A:3336:LYS:NZ	2:A:3462:ASN:O	2.30	0.64
2:B:890:GLY:HA3	2:B:902:ARG:HD3	1.78	0.64
2:I:3997:ALA:HB2	2:I:4058:ILE:HG12	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:652:ARG:HD3	2:A:773:LEU:HD13	1.79	0.64
2:A:890:GLY:HA3	2:A:902:ARG:HD3	1.78	0.64
2:A:978:THR:OG1	2:A:981:GLN:NE2	2.30	0.64
2:A:2375:GLY:O	2:A:2379:ALA:N	2.29	0.64
2:A:3374:ALA:O	2:A:3377:GLU:HG3	1.98	0.64
2:A:3632:VAL:O	2:A:3636:PHE:N	2.31	0.64
2:G:4866:SER:HB3	2:G:4873:ASP:HB3	1.79	0.64
2:B:2384:ILE:HD13	2:B:2494:PHE:CE1	2.32	0.64
2:B:2788:HIS:HB3	2:B:2791:LEU:HG	1.78	0.64
2:A:2751:LEU:HD13	2:A:2813:LEU:HB3	1.78	0.64
2:G:2285:GLU:OE1	2:G:2285:GLU:N	2.27	0.64
2:G:2751:LEU:HD13	2:G:2813:LEU:HB3	1.78	0.64
2:B:2151:ASP:OD2	2:B:2189:LYS:NZ	2.20	0.64
2:B:2358:ILE:HD12	2:I:195:PHE:CE1	2.33	0.64
2:B:2751:LEU:HD22	2:B:2813:LEU:HD22	1.80	0.64
2:B:4715:TYR:HD1	2:B:4717:ASP:H	1.44	0.64
2:I:2624:ARG:HH21	2:I:2906:VAL:HG21	1.63	0.64
2:I:3336:LYS:NZ	2:I:3462:ASN:O	2.30	0.64
2:A:1226:PHE:O	2:A:1827:ARG:NH1	2.31	0.64
2:A:2384:ILE:HD13	2:A:2494:PHE:CE1	2.32	0.64
2:A:2751:LEU:HD22	2:A:2813:LEU:HD22	1.80	0.64
2:A:2788:HIS:HB3	2:A:2791:LEU:HG	1.78	0.64
2:A:4023:MET:HE3	2:A:4026:MET:HG3	1.79	0.64
2:G:3535:LEU:O	2:G:3538:THR:HB	1.97	0.64
2:B:3336:LYS:NZ	2:B:3462:ASN:O	2.30	0.64
2:I:1226:PHE:O	2:I:1827:ARG:NH1	2.31	0.64
2:G:317:ARG:HH12	2:G:323:LEU:HD23	1.63	0.64
2:B:2703:LEU:HA	2:B:2706:ILE:HD12	1.80	0.64
2:B:3313:ASN:ND2	2:B:3350:ARG:H	1.96	0.64
2:B:3544:ASP:HB3	2:B:3548:GLU:HB3	1.80	0.64
2:I:2751:LEU:HD22	2:I:2813:LEU:HD22	1.80	0.64
2:I:4237:PHE:HA	2:I:4240:ASP:HB2	1.79	0.64
2:I:4715:TYR:HD1	2:I:4717:ASP:H	1.44	0.64
2:A:3776:ALA:HB1	2:A:3816:MET:HG2	1.80	0.64
2:A:4715:TYR:HD1	2:A:4717:ASP:H	1.44	0.64
2:G:2001:PRO:HA	2:G:3638:MET:HG2	1.80	0.64
2:G:4877:ASP:O	2:I:4582:VAL:HG12	1.97	0.64
2:B:2751:LEU:HD13	2:B:2813:LEU:HB3	1.78	0.64
2:I:2001:PRO:HA	2:I:3638:MET:HG2	1.80	0.64
2:A:2737:PRO:O	2:A:2888:ARG:NH2	2.32	0.63
2:A:5031:GLN:HG2	2:A:5032:TYR:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2703:LEU:HA	2:G:2706:ILE:HD12	1.80	0.63
2:B:61:ASP:OD2	2:B:402:ARG:NH2	2.31	0.63
2:B:978:THR:OG1	2:B:981:GLN:NE2	2.30	0.63
2:A:4215:ARG:NH2	3:A:5301:ATP:O2B	2.31	0.63
2:G:3374:ALA:O	2:G:3377:GLU:HG3	1.98	0.63
2:B:317:ARG:HH12	2:B:323:LEU:HD23	1.63	0.63
2:B:864:PRO:HD2	2:B:867:LEU:HD13	1.81	0.63
2:I:61:ASP:OD2	2:I:402:ARG:NH2	2.31	0.63
2:I:2703:LEU:HA	2:I:2706:ILE:HD12	1.80	0.63
2:I:2737:PRO:O	2:I:2888:ARG:NH2	2.31	0.63
2:I:4215:ARG:NH2	3:I:5301:ATP:O2B	2.31	0.63
2:A:317:ARG:HH12	2:A:323:LEU:HD23	1.63	0.63
2:A:3934:TYR:HB2	2:A:3999:MET:HE1	1.80	0.63
2:A:4089:SER:HA	2:A:4122:MET:HA	1.81	0.63
2:A:4866:SER:HB3	2:A:4873:ASP:HB3	1.79	0.63
2:B:2624:ARG:HH21	2:B:2906:VAL:HG21	1.63	0.63
2:I:5031:GLN:HG2	2:I:5032:TYR:CE1	2.33	0.63
2:A:4237:PHE:HA	2:A:4240:ASP:HB2	1.79	0.63
2:G:1226:PHE:O	2:G:1827:ARG:NH1	2.31	0.63
2:G:2624:ARG:HH21	2:G:2906:VAL:HG21	1.63	0.63
2:G:4157:ASP:H	2:G:4161:ARG:NH1	1.97	0.63
2:B:4023:MET:HE3	2:B:4026:MET:HG3	1.80	0.63
2:B:5031:GLN:HG2	2:B:5032:TYR:CE1	2.34	0.63
2:I:976:ARG:HA	2:I:1044:ARG:HH12	1.64	0.63
2:I:4242:ILE:HA	2:I:4245:MET:SD	2.39	0.63
2:A:2001:PRO:HA	2:A:3638:MET:HG2	1.80	0.63
2:A:3950:ASN:HA	2:A:3953:LYS:NZ	2.14	0.63
2:G:3632:VAL:O	2:G:3636:PHE:N	2.31	0.63
2:G:4215:ARG:NH2	3:G:5301:ATP:O2B	2.31	0.63
2:G:4242:ILE:HA	2:G:4245:MET:SD	2.39	0.63
2:B:3374:ALA:O	2:B:3377:GLU:HG3	1.98	0.63
2:B:4866:SER:HB3	2:B:4873:ASP:HB3	1.79	0.63
2:A:976:ARG:HA	2:A:1044:ARG:HH12	1.64	0.63
2:G:195:PHE:CE1	2:I:2358:ILE:HD12	2.33	0.63
2:G:2751:LEU:HD22	2:G:2813:LEU:HD22	1.80	0.63
2:B:1226:PHE:O	2:B:1827:ARG:NH1	2.31	0.63
2:I:317:ARG:HH12	2:I:323:LEU:HD23	1.63	0.63
2:I:2285:GLU:OE1	2:I:2285:GLU:N	2.27	0.63
2:I:3544:ASP:HB3	2:I:3548:GLU:HB3	1.80	0.63
2:I:4866:SER:HB3	2:I:4873:ASP:HB3	1.79	0.63
2:G:976:ARG:HA	2:G:1044:ARG:HH12	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2737:PRO:O	2:G:2888:ARG:NH2	2.32	0.63
2:B:976:ARG:HA	2:B:1044:ARG:HH12	1.64	0.63
2:I:2538:THR:HG23	2:I:2541:PHE:H	1.63	0.63
2:G:899:ASP:HA	2:G:904:HIS:HB3	1.81	0.63
2:G:3776:ALA:HB1	2:G:3816:MET:HG2	1.80	0.63
2:G:3934:TYR:HB2	2:G:3999:MET:CE	2.29	0.63
2:B:4215:ARG:NH2	3:B:5301:ATP:O2B	2.31	0.63
2:I:899:ASP:HA	2:I:904:HIS:HB3	1.81	0.63
2:I:3180:ASN:HB2	2:I:3183:VAL:HG13	1.81	0.63
2:A:4157:ASP:H	2:A:4161:ARG:NH1	1.97	0.63
2:G:173:SER:OG	2:G:176:SER:O	2.09	0.63
2:G:2375:GLY:O	2:G:2379:ALA:N	2.29	0.63
2:G:5031:GLN:HG2	2:G:5032:TYR:CE1	2.34	0.63
2:B:2001:PRO:HA	2:B:3638:MET:HG2	1.80	0.63
2:B:3527:PRO:HA	2:B:3530:GLN:HE22	1.64	0.63
2:B:4242:ILE:HA	2:B:4245:MET:SD	2.39	0.63
2:I:4157:ASP:H	2:I:4161:ARG:NH1	1.97	0.63
2:A:112:ALA:O	2:A:115:ARG:NH1	2.32	0.62
2:A:173:SER:OG	2:A:176:SER:O	2.09	0.62
2:A:180:LEU:O	2:A:198:THR:OG1	2.15	0.62
2:A:864:PRO:HD2	2:A:867:LEU:HD13	1.81	0.62
2:A:2358:ILE:HD12	2:B:195:PHE:CE1	2.34	0.62
2:G:1815:LEU:HD22	2:G:1845:VAL:HG21	1.81	0.62
2:G:3544:ASP:HB2	2:G:3549:VAL:HG13	1.81	0.62
2:B:112:ALA:O	2:B:115:ARG:NH1	2.32	0.62
2:B:2375:GLY:O	2:B:2379:ALA:N	2.29	0.62
2:I:864:PRO:HD2	2:I:867:LEU:HD13	1.81	0.62
2:I:3166:TYR:HA	2:I:3169:LEU:HD12	1.81	0.62
2:I:3374:ALA:O	2:I:3377:GLU:HG3	1.98	0.62
2:I:3527:PRO:O	2:I:3529:ASP:N	2.32	0.62
2:I:3544:ASP:HB2	2:I:3549:VAL:HG13	1.81	0.62
2:A:61:ASP:OD2	2:A:402:ARG:NH2	2.31	0.62
2:A:2538:THR:HG23	2:A:2541:PHE:H	1.63	0.62
2:A:3934:TYR:HB2	2:A:3999:MET:CE	2.29	0.62
2:G:61:ASP:OD2	2:G:402:ARG:NH2	2.31	0.62
2:G:2443:ILE:HD12	2:G:2454:ARG:HD2	1.81	0.62
2:G:2538:THR:HG23	2:G:2541:PHE:H	1.63	0.62
2:G:3313:ASN:ND2	2:G:3350:ARG:H	1.96	0.62
2:B:2737:PRO:O	2:B:2888:ARG:NH2	2.32	0.62
2:B:4088:ILE:O	2:B:4123:ILE:N	2.31	0.62
2:I:4023:MET:HE3	2:I:4026:MET:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3527:PRO:O	2:G:3529:ASP:N	2.32	0.62
2:B:3180:ASN:HB2	2:B:3183:VAL:HG13	1.81	0.62
2:B:3934:TYR:HB2	2:B:3999:MET:CE	2.29	0.62
2:A:899:ASP:HA	2:A:904:HIS:HB3	1.81	0.62
2:G:1717:SER:HA	2:G:1721:GLU:HG3	1.81	0.62
2:G:3180:ASN:HB2	2:G:3183:VAL:HG13	1.81	0.62
2:B:657:THR:OG1	2:B:851:PHE:O	2.18	0.62
2:I:1815:LEU:HD22	2:I:1845:VAL:HG21	1.81	0.62
2:A:1658:ASP:OD1	2:A:1659:LEU:N	2.33	0.62
1:H:49:ARG:HH11	1:H:49:ARG:CB	2.11	0.62
2:B:4089:SER:HA	2:B:4122:MET:HA	1.80	0.62
2:I:1717:SER:HA	2:I:1721:GLU:HG3	1.81	0.62
2:I:3527:PRO:HA	2:I:3530:GLN:HE22	1.64	0.62
2:I:3776:ALA:HB1	2:I:3816:MET:HG2	1.80	0.62
2:I:3934:TYR:HB2	2:I:3999:MET:CE	2.29	0.62
2:A:2359:ARG:NH2	2:B:177:GLU:OE2	2.32	0.62
2:A:2443:ILE:HD12	2:A:2454:ARG:HD2	1.81	0.62
2:A:3166:TYR:HA	2:A:3169:LEU:HD12	1.82	0.62
2:A:4072:VAL:HG13	2:A:4125:PHE:HB2	1.82	0.62
2:A:4209:GLN:OE1	2:A:4209:GLN:N	2.26	0.62
2:A:4582:VAL:HG12	2:B:4877:ASP:O	2.00	0.62
2:G:1658:ASP:OD1	2:G:1659:LEU:N	2.33	0.62
2:G:4157:ASP:N	2:G:4161:ARG:HH12	1.98	0.62
2:G:4237:PHE:HA	2:G:4240:ASP:HB2	1.79	0.62
2:B:3166:TYR:HA	2:B:3169:LEU:HD12	1.82	0.62
2:I:3206:LEU:HD13	2:I:3305:THR:HB	1.82	0.62
2:I:4072:VAL:HG13	2:I:4125:PHE:HB2	1.82	0.62
2:A:2794:TYR:HA	2:A:2797:PHE:HB2	1.82	0.62
2:A:3527:PRO:HA	2:A:3530:GLN:HE22	1.64	0.62
2:A:3544:ASP:HB2	2:A:3549:VAL:HG13	1.81	0.62
1:J:49:ARG:HH11	1:J:49:ARG:CB	2.11	0.62
2:G:2233:CYS:SG	2:G:2270:SER:OG	2.56	0.62
2:G:2430:ILE:HG21	2:G:2502:MET:HE1	1.81	0.62
2:G:4088:ILE:O	2:G:4123:ILE:N	2.32	0.62
2:G:4089:SER:HA	2:G:4122:MET:HA	1.81	0.62
2:B:899:ASP:HA	2:B:904:HIS:HB3	1.81	0.62
2:B:4157:ASP:N	2:B:4161:ARG:HH12	1.98	0.62
2:I:2006:ILE:HD12	2:I:3652:MET:HE3	1.82	0.62
2:I:3937:TYR:CZ	2:I:3943:ILE:HB	2.35	0.62
2:I:4088:ILE:O	2:I:4123:ILE:N	2.32	0.62
2:G:978:THR:OG1	2:G:981:GLN:NE2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3206:LEU:HD13	2:G:3305:THR:HB	1.82	0.62
2:G:3544:ASP:HB3	2:G:3548:GLU:HB3	1.80	0.62
2:B:4157:ASP:H	2:B:4161:ARG:NH1	1.97	0.62
2:I:657:THR:OG1	2:I:851:PHE:O	2.18	0.62
2:I:3950:ASN:HA	2:I:3953:LYS:NZ	2.14	0.62
2:A:1815:LEU:HD22	2:A:1845:VAL:HG21	1.81	0.62
2:A:2621:HIS:O	2:A:2624:ARG:HB3	1.99	0.62
2:A:3180:ASN:HB2	2:A:3183:VAL:HG13	1.81	0.62
2:G:273:HIS:ND1	2:G:334:MET:O	2.27	0.62
2:G:2205:GLU:OE1	2:G:2205:GLU:N	2.33	0.62
2:G:3527:PRO:HA	2:G:3530:GLN:HE22	1.64	0.62
2:B:3776:ALA:HB1	2:B:3816:MET:HG2	1.80	0.62
2:B:4072:VAL:HG13	2:B:4125:PHE:HB2	1.82	0.62
2:I:1658:ASP:OD1	2:I:1659:LEU:N	2.33	0.62
2:I:3632:VAL:O	2:I:3636:PHE:N	2.31	0.62
2:G:657:THR:OG1	2:G:851:PHE:O	2.18	0.62
2:B:173:SER:OG	2:B:176:SER:O	2.09	0.62
2:B:2205:GLU:OE1	2:B:2205:GLU:N	2.33	0.62
2:B:3950:ASN:HA	2:B:3953:LYS:NZ	2.14	0.62
2:I:917:GLU:O	2:I:921:ASN:ND2	2.29	0.62
2:I:2443:ILE:HD12	2:I:2454:ARG:HD2	1.81	0.62
2:I:2621:HIS:O	2:I:2624:ARG:HB3	1.99	0.62
2:I:4089:SER:HA	2:I:4122:MET:HA	1.80	0.62
2:A:2624:ARG:NH2	2:A:2911:LEU:HD12	2.15	0.61
2:G:2624:ARG:NH2	2:G:2911:LEU:HD12	2.15	0.61
2:B:2621:HIS:O	2:B:2624:ARG:HB3	1.99	0.61
2:B:2794:TYR:HA	2:B:2797:PHE:HB2	1.82	0.61
2:I:112:ALA:O	2:I:115:ARG:NH1	2.32	0.61
2:A:265:LEU:HD13	2:A:279:PRO:O	2.00	0.61
2:A:657:THR:OG1	2:A:851:PHE:O	2.18	0.61
2:A:1717:SER:HA	2:A:1721:GLU:HG3	1.81	0.61
2:A:2624:ARG:HH21	2:A:2906:VAL:HG21	1.63	0.61
2:A:4157:ASP:N	2:A:4161:ARG:HH12	1.98	0.61
2:G:2621:HIS:O	2:G:2624:ARG:HB3	1.99	0.61
2:G:2693:GLN:HB3	2:G:2697:ARG:HH12	1.65	0.61
2:B:2538:THR:HG23	2:B:2541:PHE:H	1.63	0.61
2:I:2233:CYS:SG	2:I:2270:SER:OG	2.56	0.61
2:A:2755:ILE:HA	2:A:2809:ILE:HG21	1.81	0.61
2:A:3527:PRO:O	2:A:3529:ASP:N	2.32	0.61
2:A:4242:ILE:HA	2:A:4245:MET:SD	2.39	0.61
2:G:265:LEU:HD13	2:G:279:PRO:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3937:TYR:CZ	2:G:3943:ILE:HB	2.35	0.61
2:G:3950:ASN:HA	2:G:3953:LYS:NZ	2.14	0.61
2:G:4072:VAL:HG13	2:G:4125:PHE:HB2	1.82	0.61
2:B:2624:ARG:NH2	2:B:2911:LEU:HD12	2.15	0.61
2:B:2755:ILE:HA	2:B:2809:ILE:HG21	1.81	0.61
2:B:3829:PHE:HE1	2:B:3902:TYR:HE2	1.49	0.61
2:A:2205:GLU:N	2:A:2205:GLU:OE1	2.33	0.61
2:A:2430:ILE:HG21	2:A:2502:MET:HE2	1.81	0.61
2:A:2693:GLN:HB3	2:A:2697:ARG:HH12	1.65	0.61
2:A:4849:TYR:HE1	2:G:4578:LEU:HD13	1.65	0.61
2:G:864:PRO:HD2	2:G:867:LEU:HD13	1.81	0.61
2:G:2750[B]:LYS:NZ	2:G:2823:ILE:O	2.28	0.61
2:B:3206:LEU:HD13	2:B:3305:THR:HB	1.82	0.61
2:B:3937:TYR:CZ	2:B:3943:ILE:HB	2.35	0.61
2:I:2205:GLU:N	2:I:2205:GLU:OE1	2.33	0.61
2:I:2430:ILE:HG21	2:I:2502:MET:HE1	1.81	0.61
2:I:3829:PHE:HE1	2:I:3902:TYR:HE2	1.49	0.61
2:I:4700:GLN:HA	2:I:4703:ARG:HG3	1.82	0.61
2:G:3166:TYR:HA	2:G:3169:LEU:HD12	1.82	0.61
2:B:265:LEU:HD13	2:B:279:PRO:O	2.00	0.61
2:A:4658:ILE:HD13	2:A:4796:MET:CE	2.31	0.61
2:G:2689:LYS:O	2:G:2993:GLN:NE2	2.34	0.61
2:G:2755:ILE:HA	2:G:2809:ILE:HG21	1.81	0.61
2:G:2794:TYR:HA	2:G:2797:PHE:HB2	1.82	0.61
2:B:2443:ILE:HD12	2:B:2454:ARG:HD2	1.81	0.61
2:I:2693:GLN:HB3	2:I:2697:ARG:HH12	1.65	0.61
2:I:2794:TYR:HA	2:I:2797:PHE:HB2	1.82	0.61
2:A:47:CYS:HB2	2:A:135:VAL:HG23	1.83	0.61
2:G:3386:GLU:HA	2:G:3389:GLU:HB2	1.83	0.61
2:B:180:LEU:O	2:B:198:THR:OG1	2.15	0.61
2:B:2430:ILE:HG21	2:B:2502:MET:HE1	1.81	0.61
2:B:2689:LYS:O	2:B:2993:GLN:NE2	2.34	0.61
2:B:2693:GLN:HB3	2:B:2697:ARG:HH12	1.65	0.61
2:I:1695:LEU:HB3	2:I:1810:LYS:HZ3	1.64	0.61
1:F:49:ARG:HH11	1:F:49:ARG:CB	2.11	0.61
2:A:3829:PHE:HE1	2:A:3902:TYR:HE2	1.49	0.61
2:A:3937:TYR:CZ	2:A:3943:ILE:HB	2.35	0.61
1:O:49:ARG:HH11	1:O:49:ARG:CB	2.11	0.61
2:G:180:LEU:O	2:G:198:THR:OG1	2.15	0.61
2:G:4700:GLN:HA	2:G:4703:ARG:HG3	1.82	0.61
2:B:1658:ASP:OD1	2:B:1659:LEU:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1695:LEU:HB3	2:B:1810:LYS:HZ3	1.66	0.61
2:B:2461:VAL:O	2:B:2510:TYR:OH	2.10	0.61
2:B:3527:PRO:O	2:B:3529:ASP:N	2.32	0.61
2:A:2458:ARG:NH1	2:A:2509:VAL:O	2.34	0.61
2:G:652:ARG:HH21	2:G:773:LEU:HD13	1.66	0.61
2:B:215:THR:HG22	2:B:273:HIS:HA	1.83	0.61
2:B:1815:LEU:HD22	2:B:1845:VAL:HG21	1.81	0.61
2:B:3544:ASP:HB2	2:B:3549:VAL:HG13	1.81	0.61
2:I:652:ARG:HH21	2:I:773:LEU:HD13	1.66	0.61
2:I:2624:ARG:NH2	2:I:2911:LEU:HD12	2.15	0.61
2:I:4157:ASP:N	2:I:4161:ARG:HH12	1.98	0.61
2:A:2006:ILE:HD12	2:A:3652:MET:HE3	1.82	0.61
2:A:3150:HIS:HB3	2:A:3152:PHE:HD2	1.66	0.61
2:G:3989:VAL:HA	2:G:3992:PHE:HB2	1.83	0.61
2:G:4658:ILE:HD13	2:G:4796:MET:CE	2.31	0.61
2:I:1084:GLN:NE2	2:I:1186:ASP:O	2.33	0.61
2:I:2627:VAL:HG21	2:I:2674:LEU:HD11	1.83	0.61
2:I:2689:LYS:O	2:I:2993:GLN:NE2	2.34	0.61
2:G:27:THR:OG1	2:G:32:GLN:OE1	2.19	0.60
2:G:2592:GLY:O	2:G:2600:ARG:NH2	2.34	0.60
2:B:47:CYS:HB2	2:B:135:VAL:HG23	1.83	0.60
2:B:2006:ILE:HD12	2:B:3652:MET:HE3	1.82	0.60
2:B:3150:HIS:HB3	2:B:3152:PHE:HD2	1.66	0.60
2:I:215:THR:HG22	2:I:273:HIS:HA	1.83	0.60
2:I:3150:HIS:HB3	2:I:3152:PHE:HD2	1.66	0.60
2:I:3534:MET:O	2:I:3538:THR:N	2.26	0.60
2:A:2627:VAL:HG21	2:A:2674:LEU:HD11	1.83	0.60
2:A:3386:GLU:HA	2:A:3389:GLU:HB2	1.83	0.60
2:A:3544:ASP:HB3	2:A:3548:GLU:HB3	1.80	0.60
2:G:112:ALA:O	2:G:115:ARG:NH1	2.33	0.60
2:G:2449:GLU:O	2:G:2453:ILE:HG12	2.02	0.60
2:G:2627:VAL:HG21	2:G:2674:LEU:HD11	1.83	0.60
2:G:2693:GLN:HG3	2:G:2996:LYS:HE3	1.84	0.60
2:G:4046:ASP:HA	2:G:4049:VAL:HG22	1.83	0.60
2:B:652:ARG:HH21	2:B:773:LEU:HD13	1.66	0.60
2:B:2596:THR:O	2:B:2599:GLN:N	2.31	0.60
2:I:27:THR:OG1	2:I:32:GLN:OE1	2.19	0.60
2:I:47:CYS:HB2	2:I:135:VAL:HG23	1.83	0.60
2:I:459:LEU:HD21	2:I:463:GLU:HB2	1.83	0.60
2:I:1770:SER:OG	2:I:1772:ARG:NH1	2.35	0.60
2:I:4046:ASP:HA	2:I:4049:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:215:THR:HG22	2:A:273:HIS:HA	1.83	0.60
2:G:215:THR:HG22	2:G:273:HIS:HA	1.83	0.60
2:G:2006:ILE:HD12	2:G:3652:MET:HE3	1.82	0.60
2:G:3825:GLU:OE2	2:G:3826:VAL:N	2.34	0.60
2:G:3829:PHE:HE1	2:G:3902:TYR:HE2	1.48	0.60
2:B:2333:ASP:HA	2:B:2336:ARG:HE	1.66	0.60
2:B:2868:SER:H	2:B:2871:LEU:HD12	1.67	0.60
2:B:3632:VAL:O	2:B:3636:PHE:N	2.31	0.60
2:B:4046:ASP:HA	2:B:4049:VAL:HG22	1.83	0.60
2:I:461:HIS:NE2	2:I:3707:ARG:HG3	2.17	0.60
2:I:2449:GLU:O	2:I:2453:ILE:HG12	2.01	0.60
2:I:3607:GLU:O	2:I:3611:HIS:ND1	2.34	0.60
2:A:652:ARG:HH21	2:A:773:LEU:HD13	1.66	0.60
2:A:1770:SER:OG	2:A:1772:ARG:NH1	2.34	0.60
2:A:2868:SER:H	2:A:2871:LEU:HD12	1.67	0.60
2:A:3989:VAL:HA	2:A:3992:PHE:HB2	1.83	0.60
2:G:707:VAL:HG23	2:G:782:SER:HB3	1.83	0.60
2:G:2868:SER:H	2:G:2871:LEU:HD12	1.67	0.60
2:B:27:THR:OG1	2:B:32:GLN:OE1	2.19	0.60
2:B:1717:SER:HA	2:B:1721:GLU:HG3	1.81	0.60
2:B:3090:ALA:HA	2:B:3093:ARG:HH21	1.66	0.60
2:B:4687:TYR:CD2	2:B:4692:PRO:HG3	2.36	0.60
2:I:3386:GLU:HA	2:I:3389:GLU:HB2	1.83	0.60
2:A:1084:GLN:NE2	2:A:1186:ASP:O	2.33	0.60
2:A:2333:ASP:HA	2:A:2336:ARG:HE	1.66	0.60
2:A:4046:ASP:HA	2:A:4049:VAL:HG22	1.83	0.60
2:A:4088:ILE:N	2:A:4123:ILE:O	2.29	0.60
2:G:1770:SER:OG	2:G:1772:ARG:NH1	2.34	0.60
2:G:2458:ARG:NH1	2:G:2509:VAL:O	2.34	0.60
2:B:459:LEU:HD21	2:B:463:GLU:HB2	1.83	0.60
2:B:461:HIS:NE2	2:B:3707:ARG:HG3	2.17	0.60
2:B:1770:SER:OG	2:B:1772:ARG:NH1	2.34	0.60
2:B:3607:GLU:O	2:B:3611:HIS:ND1	2.34	0.60
2:B:4700:GLN:HA	2:B:4703:ARG:HG3	1.82	0.60
2:I:707:VAL:HG23	2:I:782:SER:HB3	1.83	0.60
2:I:2693:GLN:HG3	2:I:2996:LYS:HE3	1.84	0.60
2:I:2755:ILE:HA	2:I:2809:ILE:HG21	1.81	0.60
2:I:2868:SER:H	2:I:2871:LEU:HD12	1.67	0.60
2:I:4658:ILE:HD13	2:I:4796:MET:CE	2.31	0.60
2:A:461:HIS:NE2	2:A:3707:ARG:HG3	2.17	0.60
2:A:3206:LEU:HD13	2:A:3305:THR:HB	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1695:LEU:HB3	2:G:1810:LYS:HZ3	1.65	0.60
2:B:2504:LEU:O	2:B:2508:ARG:HB2	2.02	0.60
2:B:3147:ILE:O	2:B:3151:GLN:N	2.35	0.60
2:B:4993:MET:HA	2:B:4996:ILE:HG22	1.84	0.60
2:I:265:LEU:HD13	2:I:279:PRO:O	2.01	0.60
2:I:2333:ASP:HA	2:I:2336:ARG:HE	1.66	0.60
2:A:27:THR:OG1	2:A:32:GLN:OE1	2.19	0.60
2:A:2504:LEU:O	2:A:2508:ARG:HB2	2.02	0.60
2:A:2592:GLY:O	2:A:2600:ARG:NH2	2.34	0.60
2:A:4687:TYR:CD2	2:A:4692:PRO:HG3	2.36	0.60
2:A:4700:GLN:HA	2:A:4703:ARG:HG3	1.82	0.60
2:G:47:CYS:HB2	2:G:135:VAL:HG23	1.83	0.60
2:G:261:ARG:NH1	2:G:263:GLU:OE2	2.35	0.60
2:G:2970:SER:HA	2:G:2973:PHE:HB3	1.84	0.60
2:B:1084:GLN:NE2	2:B:1186:ASP:O	2.33	0.60
2:I:261:ARG:NH1	2:I:263:GLU:OE2	2.35	0.60
2:I:3989:VAL:HA	2:I:3992:PHE:HB2	1.83	0.60
2:I:4993:MET:HA	2:I:4996:ILE:HG22	1.84	0.60
2:A:1543:GLU:O	2:A:1546:THR:OG1	2.17	0.60
2:A:2689:LYS:O	2:A:2993:GLN:NE2	2.34	0.60
2:G:3150:HIS:HB3	2:G:3152:PHE:HD2	1.66	0.60
2:G:4230:LYS:HA	2:G:4233:LEU:HB2	1.83	0.60
2:B:2175:GLU:HG3	2:B:2228:MET:HE1	1.83	0.60
2:B:2458:ARG:NH1	2:B:2509:VAL:O	2.34	0.60
2:B:2970:SER:HA	2:B:2973:PHE:HB3	1.84	0.60
2:I:2458:ARG:NH1	2:I:2509:VAL:O	2.34	0.60
2:A:2693:GLN:HG3	2:A:2996:LYS:HE3	1.84	0.60
2:G:459:LEU:HD21	2:G:463:GLU:HB2	1.83	0.60
2:B:1543:GLU:O	2:B:1546:THR:OG1	2.17	0.60
2:B:4088:ILE:N	2:B:4123:ILE:O	2.29	0.60
2:B:4658:ILE:HD13	2:B:4796:MET:CE	2.31	0.60
2:I:2592:GLY:O	2:I:2600:ARG:NH2	2.34	0.60
2:I:3147:ILE:O	2:I:3151:GLN:N	2.35	0.60
2:I:4687:TYR:CD2	2:I:4692:PRO:HG3	2.36	0.60
2:A:261:ARG:NH1	2:A:263:GLU:OE2	2.35	0.60
2:A:3607:GLU:O	2:A:3611:HIS:ND1	2.34	0.60
2:A:3825:GLU:OE2	2:A:3826:VAL:N	2.34	0.60
2:G:2559:LEU:HB3	2:G:2606:CYS:SG	2.42	0.60
2:G:4687:TYR:CD2	2:G:4692:PRO:HG3	2.36	0.60
2:A:2970:SER:HA	2:A:2973:PHE:HB3	1.84	0.59
2:A:3283:ARG:HD3	2:A:3287:ARG:NH2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3450:ASN:HA	2:A:3453:ARG:HG2	1.84	0.59
2:A:4049:VAL:HG11	2:A:4159:ARG:HD2	1.84	0.59
2:G:73:LEU:C	2:G:105:HIS:HD1	2.06	0.59
2:G:3090:ALA:HA	2:G:3093:ARG:HH21	1.66	0.59
2:G:3450:ASN:HA	2:G:3453:ARG:HG2	1.84	0.59
2:G:3607:GLU:O	2:G:3611:HIS:ND1	2.34	0.59
2:G:4049:VAL:HG11	2:G:4159:ARG:HD2	1.85	0.59
2:B:2449:GLU:O	2:B:2453:ILE:HG12	2.01	0.59
2:B:2592:GLY:O	2:B:2600:ARG:NH2	2.34	0.59
2:B:3283:ARG:HD3	2:B:3287:ARG:NH2	2.17	0.59
2:B:3386:GLU:HA	2:B:3389:GLU:HB2	1.83	0.59
2:B:4237:PHE:HD1	2:B:4672:LYS:HZ2	1.50	0.59
2:A:177:GLU:OE2	2:G:2359:ARG:NH2	2.35	0.59
2:G:2504:LEU:O	2:G:2508:ARG:HB2	2.02	0.59
2:G:3879:GLU:OE1	2:G:3879:GLU:N	2.33	0.59
2:B:3065:VAL:HA	2:B:3068:LEU:HD12	1.84	0.59
2:B:4049:VAL:HG11	2:B:4159:ARG:HD2	1.84	0.59
2:I:2504:LEU:O	2:I:2508:ARG:HB2	2.02	0.59
2:I:3825:GLU:OE2	2:I:3826:VAL:N	2.34	0.59
2:A:2449:GLU:O	2:A:2453:ILE:HG12	2.02	0.59
2:A:2596:THR:O	2:A:2599:GLN:N	2.31	0.59
2:A:3090:ALA:HA	2:A:3093:ARG:HH21	1.66	0.59
2:A:3147:ILE:O	2:A:3151:GLN:N	2.35	0.59
2:A:4088:ILE:O	2:A:4123:ILE:N	2.32	0.59
1:O:48:PHE:HB2	1:O:54:GLU:HG2	1.85	0.59
2:G:461:HIS:NE2	2:G:3707:ARG:HG3	2.17	0.59
2:B:261:ARG:NH1	2:B:263:GLU:OE2	2.35	0.59
2:B:2693:GLN:HG3	2:B:2996:LYS:HE3	1.84	0.59
2:B:4230:LYS:HA	2:B:4233:LEU:HB2	1.83	0.59
2:B:4951:LYS:HD2	2:B:4954:MET:HE3	1.84	0.59
2:I:3065:VAL:HA	2:I:3068:LEU:HD12	1.85	0.59
2:A:2285:GLU:OE1	2:A:2285:GLU:N	2.27	0.59
1:H:48:PHE:HB2	1:H:54:GLU:HG2	1.85	0.59
2:B:3825:GLU:OE2	2:B:3826:VAL:N	2.34	0.59
2:B:3934:TYR:O	2:B:3938:SER:HB3	2.02	0.59
2:I:3960:GLN:NE2	2:I:3960:GLN:O	2.35	0.59
2:A:3542:LEU:HD22	2:A:3544:ASP:OD1	2.02	0.59
2:G:3147:ILE:O	2:G:3151:GLN:N	2.35	0.59
2:G:3960:GLN:O	2:G:3960:GLN:NE2	2.35	0.59
2:B:707:VAL:HG23	2:B:782:SER:HB3	1.83	0.59
2:B:709:ASP:OD1	2:B:725:HIS:ND1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2559:LEU:HB3	2:B:2606:CYS:SG	2.42	0.59
2:B:3960:GLN:O	2:B:3960:GLN:NE2	2.35	0.59
2:I:3542:LEU:HD22	2:I:3544:ASP:OD1	2.02	0.59
2:A:3934:TYR:O	2:A:3938:SER:HB3	2.02	0.59
2:A:4230:LYS:HA	2:A:4233:LEU:HB2	1.83	0.59
2:G:2151:ASP:OD2	2:G:2189:LYS:NZ	2.20	0.59
2:G:2570:ALA:HB2	2:G:2613:TYR:HB3	1.84	0.59
2:G:3542:LEU:HD22	2:G:3544:ASP:OD1	2.02	0.59
2:G:4157:ASP:H	2:G:4161:ARG:HH12	1.49	0.59
2:G:4993:MET:HA	2:G:4996:ILE:HG22	1.84	0.59
2:B:2627:VAL:HG21	2:B:2674:LEU:HD11	1.83	0.59
2:B:3534:MET:O	2:B:3538:THR:N	2.26	0.59
2:B:3951:PHE:HD2	2:B:4012:LEU:HD21	1.68	0.59
2:I:173:SER:OG	2:I:176:SER:O	2.09	0.59
2:I:176:SER:OG	2:I:178:ARG:NE	2.36	0.59
2:I:2970:SER:HA	2:I:2973:PHE:HB3	1.84	0.59
2:I:4049:VAL:HG11	2:I:4159:ARG:HD2	1.84	0.59
2:A:73:LEU:C	2:A:105:HIS:HD1	2.06	0.59
2:A:459:LEU:HD21	2:A:463:GLU:HB2	1.83	0.59
2:A:2559:LEU:HB3	2:A:2606:CYS:SG	2.42	0.59
2:A:2750[B]:LYS:NZ	2:A:2823:ILE:O	2.28	0.59
2:A:3960:GLN:NE2	2:A:3960:GLN:O	2.35	0.59
2:B:2285:GLU:OE1	2:B:2285:GLU:N	2.27	0.59
2:B:3989:VAL:HA	2:B:3992:PHE:HB2	1.83	0.59
2:I:76:ARG:NH1	2:I:80:GLU:OE2	2.36	0.59
2:I:1183:GLU:OE1	2:I:1183:GLU:N	2.32	0.59
2:I:4157:ASP:H	2:I:4161:ARG:HH12	1.49	0.59
2:A:1183:GLU:OE1	2:A:1183:GLU:N	2.32	0.59
2:G:103:TYR:O	2:G:160:GLY:N	2.35	0.59
2:G:3380:ARG:HH21	2:G:3391:GLU:HG3	1.68	0.59
2:B:3313:ASN:HD22	2:B:3350:ARG:HE	1.51	0.59
2:B:3542:LEU:HD22	2:B:3544:ASP:OD1	2.02	0.59
2:I:3090:ALA:HA	2:I:3093:ARG:HH21	1.66	0.59
2:I:3380:ARG:HH21	2:I:3391:GLU:HG3	1.68	0.59
2:I:4087:LEU:HA	2:I:4124:ASN:HA	1.85	0.59
2:I:4863:TYR:HB2	2:I:4874:MET:HE3	1.85	0.59
2:A:2570:ALA:HB2	2:A:2613:TYR:HB3	1.84	0.59
2:G:4237:PHE:HD1	2:G:4672:LYS:HZ2	1.49	0.59
2:B:176:SER:OG	2:B:178:ARG:NE	2.36	0.59
1:F:48:PHE:HB2	1:F:54:GLU:HG2	1.85	0.59
2:A:176:SER:OG	2:A:178:ARG:NE	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3534:MET:O	2:A:3538:THR:N	2.26	0.59
2:A:3879:GLU:OE1	2:A:3879:GLU:N	2.33	0.59
2:A:4843:LEU:HD22	2:G:4823:LEU:HD12	1.84	0.59
2:B:277:GLY:HA2	2:B:315:CYS:HB3	1.85	0.59
2:B:949:ASN:HB3	2:B:974:HIS:NE2	2.18	0.59
2:B:3380:ARG:HH21	2:B:3391:GLU:HG3	1.68	0.59
2:I:103:TYR:O	2:I:160:GLY:N	2.35	0.59
2:A:3065:VAL:HA	2:A:3068:LEU:HD12	1.84	0.58
2:A:3380:ARG:HH21	2:A:3391:GLU:HG3	1.68	0.58
2:A:4237:PHE:HD1	2:A:4672:LYS:HZ2	1.50	0.58
2:A:4993:MET:HA	2:A:4996:ILE:HG22	1.84	0.58
2:G:4087:LEU:HA	2:G:4124:ASN:HA	1.85	0.58
2:I:2751:LEU:HB3	2:I:2813:LEU:HD13	1.85	0.58
2:A:3313:ASN:HD22	2:A:3350:ARG:HE	1.51	0.58
1:J:48:PHE:HB2	1:J:54:GLU:HG2	1.85	0.58
2:G:76:ARG:NH1	2:G:80:GLU:OE2	2.36	0.58
2:G:949:ASN:HB3	2:G:974:HIS:NE2	2.18	0.58
2:B:2751:LEU:HB3	2:B:2813:LEU:HD13	1.85	0.58
2:I:949:ASN:HB3	2:I:974:HIS:NE2	2.18	0.58
2:I:2175:GLU:HG3	2:I:2228:MET:HE1	1.83	0.58
2:I:3879:GLU:OE1	2:I:3879:GLU:N	2.33	0.58
2:I:4230:LYS:HA	2:I:4233:LEU:HB2	1.83	0.58
2:A:103:TYR:O	2:A:160:GLY:N	2.35	0.58
2:G:3283:ARG:HD3	2:G:3287:ARG:NH2	2.17	0.58
2:B:4087:LEU:HA	2:B:4124:ASN:HA	1.85	0.58
2:I:3283:ARG:HD3	2:I:3287:ARG:NH2	2.17	0.58
2:A:76:ARG:NH1	2:A:80:GLU:OE2	2.36	0.58
2:A:949:ASN:HB3	2:A:974:HIS:NE2	2.18	0.58
2:A:2377:LEU:HD21	2:A:2468:GLY:HA3	1.86	0.58
2:A:2954:ARG:HB3	2:A:2957:PHE:HB2	1.86	0.58
2:A:4087:LEU:HA	2:A:4124:ASN:HA	1.85	0.58
2:G:2333:ASP:HA	2:G:2336:ARG:HE	1.66	0.58
2:B:3822:ASP:OD1	2:B:3823:LYS:N	2.37	0.58
2:I:180:LEU:O	2:I:198:THR:OG1	2.15	0.58
2:A:1652:GLU:OE2	2:A:1656:ARG:NH2	2.36	0.58
2:G:176:SER:OG	2:G:178:ARG:NE	2.36	0.58
2:G:1089:TYR:HD2	2:G:1152:MET:HG3	1.69	0.58
2:G:3065:VAL:HA	2:G:3068:LEU:HD12	1.84	0.58
2:G:3323:ILE:HG21	2:G:3408:LEU:HD21	1.85	0.58
2:G:3934:TYR:O	2:G:3938:SER:HB3	2.02	0.58
2:B:2562:ILE:HG22	2:B:2610:LEU:HD21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1089:TYR:HD2	2:I:1152:MET:HG3	1.69	0.58
2:I:2559:LEU:HB3	2:I:2606:CYS:SG	2.42	0.58
2:I:2596:THR:O	2:I:2599:GLN:N	2.31	0.58
2:I:3380:ARG:HA	2:I:3387:ALA:HB1	1.84	0.58
2:I:3951:PHE:HD2	2:I:4012:LEU:HD21	1.68	0.58
2:A:195:PHE:CE1	2:G:2358:ILE:HD12	2.39	0.58
2:A:707:VAL:HG23	2:A:782:SER:HB3	1.83	0.58
2:A:1279:SER:N	2:A:1282:SER:OG	2.36	0.58
2:A:2751:LEU:HB3	2:A:2813:LEU:HD13	1.85	0.58
2:A:3951:PHE:HD2	2:A:4012:LEU:HD21	1.68	0.58
2:G:277:GLY:HA2	2:G:315:CYS:HB3	1.85	0.58
2:G:1084:GLN:NE2	2:G:1186:ASP:O	2.33	0.58
2:G:2377:LEU:HD21	2:G:2468:GLY:HA3	1.86	0.58
2:G:2751:LEU:HB3	2:G:2813:LEU:HD13	1.85	0.58
2:B:1183:GLU:OE1	2:B:1183:GLU:N	2.32	0.58
2:B:3450:ASN:HA	2:B:3453:ARG:HG2	1.84	0.58
2:B:3451:PHE:O	2:B:3455:GLU:HG2	2.03	0.58
2:I:277:GLY:HA2	2:I:315:CYS:HB3	1.85	0.58
2:A:3323:ILE:HG21	2:A:3408:LEU:HD21	1.85	0.58
2:A:3380:ARG:HA	2:A:3387:ALA:HB1	1.84	0.58
2:G:2301:TYR:HB3	2:G:2331:TYR:CZ	2.39	0.58
2:I:1652:GLU:OE2	2:I:1656:ARG:NH2	2.36	0.58
2:A:3053:ARG:HG2	2:A:3056:LEU:HD21	1.85	0.58
2:A:4569:LEU:HD22	2:A:4650:HIS:HB2	1.85	0.58
2:G:4951:LYS:HD2	2:G:4954:MET:HE3	1.85	0.58
2:B:76:ARG:NH1	2:B:80:GLU:OE2	2.36	0.58
2:B:1652:GLU:OE2	2:B:1656:ARG:NH2	2.36	0.58
2:I:2336:ARG:NH1	2:I:2431:ASP:OD2	2.36	0.58
2:A:2336:ARG:NH1	2:A:2431:ASP:OD2	2.36	0.58
2:G:2211:MET:HB2	2:G:2232:CYS:SG	2.44	0.58
2:G:3822:ASP:OD1	2:G:3823:LYS:N	2.37	0.58
2:G:4843:LEU:HD22	2:I:4823:LEU:HD12	1.86	0.58
2:B:917:GLU:O	2:B:921:ASN:ND2	2.29	0.58
2:I:2570:ALA:HB2	2:I:2613:TYR:HB3	1.84	0.58
2:I:3314:SER:O	2:I:3318:ASN:ND2	2.34	0.58
2:I:3450:ASN:HA	2:I:3453:ARG:HG2	1.84	0.58
2:I:3934:TYR:O	2:I:3938:SER:HB3	2.02	0.58
2:G:394:GLN:N	2:G:397:GLU:OE2	2.36	0.58
2:G:3951:PHE:HD2	2:G:4012:LEU:HD21	1.68	0.58
2:B:4157:ASP:H	2:B:4161:ARG:HH12	1.49	0.58
2:I:3313:ASN:HD22	2:I:3350:ARG:HE	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4105:GLY:O	2:I:4109:GLN:NE2	2.37	0.58
2:A:1089:TYR:HD2	2:A:1152:MET:HG3	1.69	0.57
2:A:2301:TYR:HB3	2:A:2331:TYR:CZ	2.39	0.57
2:A:3536:ALA:HB2	2:A:3553:LEU:HD11	1.86	0.57
2:G:3380:ARG:HA	2:G:3387:ALA:HB1	1.84	0.57
2:G:3950:ASN:HA	2:G:3953:LYS:HZ2	1.68	0.57
2:B:2750[B]:LYS:NZ	2:B:2823:ILE:O	2.28	0.57
2:B:3536:ALA:HB2	2:B:3553:LEU:HD11	1.86	0.57
2:B:4059:LEU:HD23	2:B:4167:ALA:HB2	1.86	0.57
2:I:2151:ASP:OD2	2:I:2189:LYS:NZ	2.20	0.57
2:I:2954:ARG:HB3	2:I:2957:PHE:HB2	1.86	0.57
2:I:3451:PHE:O	2:I:3455:GLU:HG2	2.04	0.57
2:A:277:GLY:HA2	2:A:315:CYS:HB3	1.85	0.57
2:A:3435:PHE:HD1	2:A:3517:MET:HG3	1.69	0.57
2:A:3822:ASP:OD1	2:A:3823:LYS:N	2.37	0.57
2:G:830:ARG:NH1	2:G:832:GLU:OE1	2.37	0.57
2:G:4105:GLY:O	2:G:4109:GLN:NE2	2.37	0.57
2:B:830:ARG:NH1	2:B:832:GLU:OE1	2.37	0.57
2:B:2211:MET:HB2	2:B:2232:CYS:SG	2.44	0.57
2:B:3380:ARG:HA	2:B:3387:ALA:HB1	1.84	0.57
2:B:3842:LEU:HB3	2:B:3929:SER:OG	2.04	0.57
2:B:4569:LEU:HD22	2:B:4650:HIS:HB2	1.86	0.57
2:I:830:ARG:NH1	2:I:832:GLU:OE1	2.37	0.57
2:I:2377:LEU:HD21	2:I:2468:GLY:HA3	1.86	0.57
2:I:3536:ALA:HB2	2:I:3553:LEU:HD11	1.86	0.57
2:A:266:ARG:NH1	2:A:269:TRP:O	2.37	0.57
2:A:893:TYR:HA	2:A:903:LEU:HD22	1.87	0.57
2:A:4136:ALA:HA	2:A:4139:ILE:HG22	1.87	0.57
2:G:3313:ASN:HD22	2:G:3350:ARG:HE	1.51	0.57
2:G:4059:LEU:HD23	2:G:4167:ALA:HB2	1.86	0.57
2:B:2570:ALA:HB2	2:B:2613:TYR:HB3	1.84	0.57
2:B:2954:ARG:HB3	2:B:2957:PHE:HB2	1.85	0.57
2:B:3435:PHE:HD1	2:B:3517:MET:HG3	1.69	0.57
2:B:3879:GLU:N	2:B:3879:GLU:OE1	2.33	0.57
2:B:4578:LEU:HD13	2:I:4849:TYR:CE1	2.39	0.57
2:I:2562:ILE:HG22	2:I:2610:LEU:HD21	1.86	0.57
2:I:3435:PHE:HD1	2:I:3517:MET:HG3	1.69	0.57
2:I:4136:ALA:HA	2:I:4139:ILE:HG22	1.86	0.57
2:A:849:THR:O	2:A:852:VAL:HG12	2.05	0.57
2:A:2211:MET:HB2	2:A:2232:CYS:SG	2.44	0.57
2:A:2562:ILE:HG22	2:A:2610:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4157:ASP:H	2:A:4161:ARG:HH12	1.49	0.57
2:A:4878:ASP:OD1	2:A:4880:MET:N	2.37	0.57
2:G:613:ALA:HB2	2:G:1676:LEU:HD12	1.87	0.57
2:G:3536:ALA:HB2	2:G:3553:LEU:HD11	1.86	0.57
2:G:4136:ALA:HA	2:G:4139:ILE:HG22	1.86	0.57
2:B:1173:SER:OG	2:B:1174:GLY:N	2.37	0.57
2:B:2696:TYR:HB3	2:B:3000:LYS:HG2	1.87	0.57
2:B:3053:ARG:HG2	2:B:3056:LEU:HD21	1.85	0.57
2:B:3323:ILE:HG21	2:B:3408:LEU:HD21	1.85	0.57
2:B:3324:VAL:O	2:B:3327:LEU:HG	2.05	0.57
2:I:266:ARG:NH1	2:I:269:TRP:O	2.37	0.57
2:I:1173:SER:OG	2:I:1174:GLY:N	2.37	0.57
2:I:4059:LEU:HD23	2:I:4167:ALA:HB2	1.86	0.57
2:I:4951:LYS:HD2	2:I:4954:MET:HE3	1.85	0.57
2:A:3137:LEU:O	2:A:3141:THR:HG23	2.05	0.57
2:A:3451:PHE:O	2:A:3455:GLU:HG2	2.04	0.57
2:G:266:ARG:NH1	2:G:269:TRP:O	2.37	0.57
2:G:618:GLN:OE1	2:G:1678:ASN:ND2	2.38	0.57
2:G:2596:THR:O	2:G:2599:GLN:N	2.31	0.57
2:G:3451:PHE:O	2:G:3455:GLU:HG2	2.04	0.57
2:G:3583:GLU:O	2:G:3585:ASP:N	2.37	0.57
2:B:4823:LEU:HD12	2:I:4843:LEU:HD22	1.87	0.57
2:I:2696:TYR:HB3	2:I:3000:LYS:HG2	1.87	0.57
2:I:4569:LEU:HD22	2:I:4650:HIS:HB2	1.86	0.57
2:A:882:TRP:O	2:A:885:THR:OG1	2.23	0.57
2:A:3583:GLU:O	2:A:3585:ASP:N	2.37	0.57
2:G:1652:GLU:OE2	2:G:1656:ARG:NH2	2.36	0.57
2:G:2531:ARG:HD2	2:G:2588:ARG:HH22	1.69	0.57
2:G:3435:PHE:HD1	2:G:3517:MET:HG3	1.69	0.57
2:G:4085:ARG:HB2	2:G:4087:LEU:HD13	1.87	0.57
2:B:893:TYR:HA	2:B:903:LEU:HD22	1.87	0.57
2:B:1089:TYR:HD2	2:B:1152:MET:HG3	1.69	0.57
2:B:2377:LEU:HD21	2:B:2468:GLY:HA3	1.86	0.57
2:B:2522:LEU:HA	2:B:2526:PHE:HB2	1.86	0.57
2:B:3137:LEU:O	2:B:3141:THR:HG23	2.05	0.57
2:I:3323:ILE:HG21	2:I:3408:LEU:HD21	1.85	0.57
2:A:917:GLU:O	2:A:921:ASN:ND2	2.29	0.57
2:A:1196:PRO:O	2:A:1198:GLN:NE2	2.19	0.57
2:A:2992:GLU:HA	2:A:2995:ILE:HB	1.86	0.57
2:G:4721:LYS:HB3	2:G:4743:MET:SD	2.45	0.57
2:I:2301:TYR:HB3	2:I:2331:TYR:CZ	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3822:ASP:OD1	2:I:3823:LYS:N	2.37	0.57
2:I:4087:LEU:O	2:I:4122:MET:HE3	2.05	0.57
2:I:4721:LYS:HB3	2:I:4743:MET:SD	2.45	0.57
2:A:613:ALA:HB2	2:A:1676:LEU:HD12	1.87	0.57
2:A:2522:LEU:HA	2:A:2526:PHE:HB2	1.86	0.57
2:A:3842:LEU:HB3	2:A:3929:SER:OG	2.05	0.57
2:A:4085:ARG:HB2	2:A:4087:LEU:HD13	1.87	0.57
2:G:709:ASP:OD1	2:G:725:HIS:ND1	2.31	0.57
2:G:3842:LEU:HB3	2:G:3929:SER:OG	2.05	0.57
2:G:3997:ALA:O	2:G:4001:MET:HG3	2.04	0.57
2:G:4863:TYR:HB2	2:G:4874:MET:HE3	1.87	0.57
2:B:3368:ARG:HH12	2:B:3401:LEU:HD13	1.69	0.57
2:I:940:GLY:O	2:I:1052:ASN:N	2.38	0.57
2:I:3368:ARG:HH12	2:I:3401:LEU:HD13	1.69	0.57
2:I:3583:GLU:O	2:I:3585:ASP:N	2.37	0.57
2:A:4105:GLY:O	2:A:4109:GLN:NE2	2.37	0.57
2:G:893:TYR:HA	2:G:903:LEU:HD22	1.87	0.57
2:G:2175:GLU:HG3	2:G:2228:MET:HE1	1.87	0.57
2:G:4003:LEU:HD11	2:G:4012:LEU:HD22	1.87	0.57
2:B:575:LEU:HD22	2:B:609:CYS:HB3	1.87	0.57
2:B:849:THR:O	2:B:852:VAL:HG12	2.05	0.57
2:B:2531:ARG:HD2	2:B:2588:ARG:HH22	1.69	0.57
2:B:3950:ASN:HA	2:B:3953:LYS:HZ2	1.68	0.57
2:I:893:TYR:HA	2:I:903:LEU:HD22	1.87	0.57
2:I:3053:ARG:HG2	2:I:3056:LEU:HD21	1.85	0.57
2:I:4209:GLN:OE1	2:I:4209:GLN:N	2.26	0.57
2:A:618:GLN:OE1	2:A:1678:ASN:ND2	2.38	0.57
2:A:830:ARG:NH1	2:A:832:GLU:OE1	2.37	0.57
2:A:4022:ASP:O	2:A:4026:MET:HG2	2.05	0.57
2:G:59:PRO:HB3	2:G:281:ARG:HH11	1.70	0.57
2:G:1116:GLY:O	2:G:1134:LEU:N	2.38	0.57
2:G:2954:ARG:HB3	2:G:2957:PHE:HB2	1.86	0.57
2:B:3887:PHE:O	2:B:3891:LEU:HG	2.05	0.57
2:B:4878:ASP:OD1	2:B:4880:MET:N	2.37	0.57
2:I:952:LYS:HA	2:I:970:LEU:HA	1.87	0.57
2:I:2211:MET:HB2	2:I:2232:CYS:SG	2.44	0.57
2:I:2531:ARG:HD2	2:I:2588:ARG:HH22	1.69	0.57
2:I:3324:VAL:O	2:I:3327:LEU:HG	2.05	0.57
2:I:4085:ARG:HB2	2:I:4087:LEU:HD13	1.87	0.57
2:A:4097:MET:HE2	2:A:4108:ILE:HD13	1.87	0.56
2:G:4569:LEU:HD22	2:G:4650:HIS:HB2	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4849:TYR:CE1	2:I:4578:LEU:HD13	2.39	0.56
2:B:266:ARG:NH1	2:B:269:TRP:O	2.37	0.56
2:B:2359:ARG:NH2	2:I:177:GLU:OE2	2.38	0.56
2:B:2382:GLU:O	2:B:2386:ILE:HG12	2.05	0.56
2:B:4136:ALA:HA	2:B:4139:ILE:HG22	1.87	0.56
2:I:3842:LEU:HB3	2:I:3929:SER:OG	2.05	0.56
2:I:4239:GLU:HG2	6:I:5304:CFF:N9	2.20	0.56
2:A:2464:ASP:O	2:A:2467:VAL:HG22	2.05	0.56
2:A:3324:VAL:O	2:A:3327:LEU:HG	2.05	0.56
2:G:652:ARG:HD2	2:G:750:LEU:HB2	1.86	0.56
2:G:849:THR:O	2:G:852:VAL:HG12	2.05	0.56
2:G:923:GLN:NE2	2:G:927:GLU:OE1	2.39	0.56
2:G:2464:ASP:O	2:G:2467:VAL:HG22	2.05	0.56
2:G:2562:ILE:HG22	2:G:2610:LEU:HD21	1.86	0.56
2:G:3053:ARG:HG2	2:G:3056:LEU:HD21	1.85	0.56
2:G:4239:GLU:HG2	6:G:5304:CFF:N9	2.20	0.56
2:B:59:PRO:HB3	2:B:281:ARG:HH11	1.70	0.56
2:B:2301:TYR:HB3	2:B:2331:TYR:CZ	2.39	0.56
2:B:4085:ARG:HB2	2:B:4087:LEU:HD13	1.87	0.56
2:B:4238:CYS:SG	2:B:4989:MET:HG3	2.46	0.56
2:B:4721:LYS:HB3	2:B:4743:MET:SD	2.45	0.56
2:B:4793:GLY:O	2:B:4796:MET:HB2	2.05	0.56
2:I:3997:ALA:O	2:I:4001:MET:HG3	2.04	0.56
2:A:100:THR:OG1	2:A:162:LYS:NZ	2.38	0.56
2:A:923:GLN:NE2	2:A:927:GLU:OE1	2.39	0.56
2:A:940:GLY:O	2:A:1052:ASN:N	2.38	0.56
2:A:2654:TYR:HB2	2:A:2661:TRP:CD1	2.41	0.56
2:A:2696:TYR:HB3	2:A:3000:LYS:HG2	1.87	0.56
2:A:3368:ARG:HH12	2:A:3401:LEU:HD13	1.69	0.56
2:A:3532:LEU:HB3	2:A:3553:LEU:HD22	1.87	0.56
2:A:3725:TYR:O	2:A:3729:MET:HG3	2.06	0.56
2:A:3997:ALA:O	2:A:4001:MET:HG3	2.04	0.56
2:G:840:VAL:HG23	2:G:1199:VAL:HG12	1.87	0.56
2:G:2608:MET:O	2:G:2612:ARG:HG2	2.06	0.56
2:G:2819:TRP:HZ3	2:G:2878:LEU:HD23	1.71	0.56
2:G:4022:ASP:O	2:G:4026:MET:HG2	2.05	0.56
2:B:74:SER:HG	2:B:77:ALA:H	1.52	0.56
2:B:2608:MET:O	2:B:2612:ARG:HG2	2.05	0.56
2:B:2992:GLU:HA	2:B:2995:ILE:HB	1.86	0.56
2:B:4022:ASP:O	2:B:4026:MET:HG2	2.05	0.56
2:B:4105:GLY:O	2:B:4109:GLN:NE2	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:59:PRO:HB3	2:I:281:ARG:HH11	1.70	0.56
2:I:923:GLN:NE2	2:I:927:GLU:OE1	2.39	0.56
2:I:2992:GLU:HA	2:I:2995:ILE:HB	1.86	0.56
2:I:3137:LEU:O	2:I:3141:THR:HG23	2.05	0.56
2:I:3725:TYR:O	2:I:3729:MET:HG3	2.06	0.56
2:I:4003:LEU:HD11	2:I:4012:LEU:HD22	1.87	0.56
2:A:251:ALA:HB1	2:A:255:HIS:HE2	1.71	0.56
2:A:1230:MET:SD	2:A:1827:ARG:HG3	2.46	0.56
2:A:2531:ARG:HD2	2:A:2588:ARG:HH22	1.69	0.56
2:A:2626:LEU:HA	2:A:2629:ASP:HB2	1.88	0.56
2:A:4059:LEU:HD23	2:A:4167:ALA:HB2	1.86	0.56
2:A:4238:CYS:SG	2:A:4989:MET:HG3	2.46	0.56
2:G:882:TRP:O	2:G:885:THR:OG1	2.23	0.56
2:G:2654:TYR:HB2	2:G:2661:TRP:CD1	2.41	0.56
2:G:5013:MET:HG3	2:G:5018:CYS:HB3	1.87	0.56
2:B:618:GLN:OE1	2:B:1678:ASN:ND2	2.38	0.56
2:B:652:ARG:HD2	2:B:750:LEU:HB2	1.86	0.56
2:B:840:VAL:HG23	2:B:1199:VAL:HG12	1.87	0.56
2:B:882:TRP:O	2:B:885:THR:OG1	2.23	0.56
2:B:923:GLN:NE2	2:B:927:GLU:OE1	2.39	0.56
2:B:2464:ASP:O	2:B:2467:VAL:HG22	2.05	0.56
2:B:2654:TYR:HB2	2:B:2661:TRP:CD1	2.41	0.56
2:B:3314:SER:O	2:B:3318:ASN:ND2	2.34	0.56
2:B:3532:LEU:HB3	2:B:3553:LEU:HD22	1.88	0.56
2:B:4239:GLU:HG2	6:B:5304:CFF:N9	2.19	0.56
2:I:575:LEU:HD22	2:I:609:CYS:HB3	1.87	0.56
2:I:849:THR:O	2:I:852:VAL:HG12	2.05	0.56
2:A:59:PRO:HB3	2:A:281:ARG:HH11	1.70	0.56
2:G:74:SER:HG	2:G:77:ALA:H	1.53	0.56
2:G:2635:GLU:OE1	2:G:2635:GLU:N	2.32	0.56
2:G:4839:MET:SD	2:I:4820:VAL:HG11	2.46	0.56
2:B:872:GLU:OE2	2:B:872:GLU:N	2.36	0.56
2:B:952:LYS:HA	2:B:970:LEU:HA	1.87	0.56
2:B:3725:TYR:O	2:B:3729:MET:HG3	2.06	0.56
2:I:709:ASP:OD1	2:I:725:HIS:ND1	2.31	0.56
2:I:1265:ASP:OD1	2:I:1266:THR:N	2.39	0.56
2:A:4239:GLU:HG2	6:A:5304:CFF:N9	2.20	0.56
2:A:4721:LYS:HB3	2:A:4743:MET:SD	2.45	0.56
2:A:4793:GLY:O	2:A:4796:MET:HB2	2.06	0.56
2:G:177:GLU:OE2	2:I:2359:ARG:NH2	2.38	0.56
2:G:2382:GLU:O	2:G:2386:ILE:HG12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2560:PRO:O	2:G:2563:THR:OG1	2.23	0.56
2:G:2992:GLU:HA	2:G:2995:ILE:HB	1.86	0.56
2:G:3137:LEU:O	2:G:3141:THR:HG23	2.05	0.56
2:G:3368:ARG:HH12	2:G:3401:LEU:HD13	1.69	0.56
2:B:280:LEU:HD21	2:B:316:PHE:CD2	2.41	0.56
2:B:4209:GLN:OE1	2:B:4209:GLN:N	2.26	0.56
2:I:613:ALA:HB2	2:I:1676:LEU:HD12	1.87	0.56
2:I:618:GLN:OE1	2:I:1678:ASN:ND2	2.38	0.56
2:I:1230:MET:SD	2:I:1827:ARG:HG3	2.46	0.56
2:I:2382:GLU:O	2:I:2386:ILE:HG12	2.05	0.56
2:I:2750[B]:LYS:NZ	2:I:2823:ILE:O	2.28	0.56
2:I:4793:GLY:O	2:I:4796:MET:HB2	2.06	0.56
2:A:2191:PHE:CD1	2:A:2198:MET:HE3	2.41	0.56
2:A:2382:GLU:O	2:A:2386:ILE:HG12	2.05	0.56
2:A:2608:MET:O	2:A:2612:ARG:HG2	2.06	0.56
2:A:3886:ARG:HH21	2:A:3890:LEU:HD21	1.70	0.56
1:H:79:ASP:OD1	1:H:80:VAL:HG13	2.05	0.56
1:J:79:ASP:OD1	1:J:80:VAL:HG13	2.05	0.56
2:G:575:LEU:HD22	2:G:609:CYS:HB3	1.87	0.56
2:G:2495:VAL:HG12	2:G:2498:HIS:N	2.21	0.56
2:G:2696:TYR:HB3	2:G:3000:LYS:HG2	1.87	0.56
2:G:3725:TYR:O	2:G:3729:MET:HG3	2.06	0.56
2:G:3826:VAL:HG12	2:G:3909:ASN:HB3	1.88	0.56
2:B:100:THR:OG1	2:B:162:LYS:NZ	2.38	0.56
2:B:4031:LEU:HD11	2:B:4149:ASN:HB3	1.88	0.56
2:B:4820:VAL:HG11	2:I:4839:MET:SD	2.45	0.56
2:I:882:TRP:O	2:I:885:THR:OG1	2.23	0.56
2:I:2654:TYR:HB2	2:I:2661:TRP:CD1	2.41	0.56
2:I:2819:TRP:HZ3	2:I:2878:LEU:HD23	1.71	0.56
2:I:3887:PHE:O	2:I:3891:LEU:HG	2.05	0.56
2:I:5013:MET:HG3	2:I:5018:CYS:HB3	1.88	0.56
2:A:952:LYS:HA	2:A:970:LEU:HA	1.87	0.56
2:A:1116:GLY:O	2:A:1134:LEU:N	2.38	0.56
2:A:3887:PHE:O	2:A:3891:LEU:HG	2.05	0.56
2:A:5013:MET:HG3	2:A:5018:CYS:HB3	1.87	0.56
2:G:251:ALA:HB1	2:G:255:HIS:HE2	1.71	0.56
2:G:940:GLY:O	2:G:1052:ASN:N	2.38	0.56
2:G:952:LYS:HA	2:G:970:LEU:HA	1.87	0.56
2:G:1125:ASN:OD1	2:G:1126:GLY:N	2.39	0.56
2:B:1116:GLY:O	2:B:1134:LEU:N	2.38	0.56
2:B:1156:THR:OG1	2:B:1157:GLU:OE1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1279:SER:N	2:B:1282:SER:OG	2.36	0.56
2:B:3046:LEU:O	2:B:3050:VAL:HG12	2.06	0.56
2:B:3826:VAL:HG12	2:B:3909:ASN:HB3	1.88	0.56
2:B:3997:ALA:O	2:B:4001:MET:HG3	2.04	0.56
2:I:4238:CYS:SG	2:I:4989:MET:HG3	2.46	0.56
2:A:840:VAL:HG23	2:A:1199:VAL:HG12	1.87	0.56
2:G:1607:ARG:NH1	2:G:1610:ASN:OD1	2.39	0.56
2:G:2522:LEU:HA	2:G:2526:PHE:HB2	1.86	0.56
2:G:3324:VAL:O	2:G:3327:LEU:HG	2.05	0.56
2:G:4209:GLN:OE1	2:G:4209:GLN:N	2.26	0.56
2:B:613:ALA:HB2	2:B:1676:LEU:HD12	1.87	0.56
2:B:1196:PRO:O	2:B:1198:GLN:NE2	2.19	0.56
2:B:2626:LEU:HA	2:B:2629:ASP:HB2	1.88	0.56
2:B:4003:LEU:HD11	2:B:4012:LEU:HD22	1.87	0.56
2:B:4863:TYR:HB2	2:B:4874:MET:HE3	1.88	0.56
2:I:3046:LEU:O	2:I:3050:VAL:HG12	2.06	0.56
2:I:4022:ASP:O	2:I:4026:MET:HG2	2.05	0.56
2:I:4049:VAL:HG11	2:I:4159:ARG:CD	2.36	0.56
2:I:4237:PHE:HD1	2:I:4672:LYS:HZ2	1.52	0.56
2:A:182:LEU:HB2	2:A:189:LEU:HD23	1.87	0.56
2:A:652:ARG:HD2	2:A:750:LEU:HB2	1.86	0.56
2:A:1125:ASN:OD1	2:A:1126:GLY:N	2.39	0.56
2:A:2478:THR:HG21	2:A:2485:LEU:HA	1.88	0.56
2:A:2620:GLN:O	2:A:2624:ARG:N	2.37	0.56
2:A:3506:GLN:HA	2:A:3511:VAL:HG21	1.88	0.56
2:A:4003:LEU:HD11	2:A:4012:LEU:HD22	1.87	0.56
1:O:79:ASP:OD1	1:O:80:VAL:HG13	2.05	0.56
2:G:1173:SER:OG	2:G:1174:GLY:N	2.37	0.56
2:G:2778:GLY:HA3	2:G:2787:THR:HB	1.88	0.56
2:G:4238:CYS:SG	2:G:4989:MET:HG3	2.45	0.56
2:G:4793:GLY:O	2:G:4796:MET:HB2	2.06	0.56
2:B:3309:SER:HB2	2:B:3348:ARG:HG2	1.87	0.56
2:B:4049:VAL:HG11	2:B:4159:ARG:CD	2.36	0.56
2:I:3532:LEU:HB3	2:I:3553:LEU:HD22	1.87	0.56
2:A:280:LEU:HD21	2:A:316:PHE:CD2	2.41	0.55
2:A:633:LEU:HB3	2:A:1639:LEU:HD11	1.88	0.55
2:G:3532:LEU:HB3	2:G:3553:LEU:HD22	1.88	0.55
2:B:103:TYR:O	2:B:160:GLY:N	2.35	0.55
2:B:1230:MET:SD	2:B:1827:ARG:HG3	2.46	0.55
2:I:652:ARG:HD2	2:I:750:LEU:HB2	1.86	0.55
2:I:2464:ASP:O	2:I:2467:VAL:HG22	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2522:LEU:HA	2:I:2526:PHE:HB2	1.86	0.55
2:I:2608:MET:O	2:I:2612:ARG:HG2	2.06	0.55
2:I:3826:VAL:HG12	2:I:3909:ASN:HB3	1.88	0.55
2:I:3886:ARG:HH21	2:I:3890:LEU:HD21	1.70	0.55
2:I:4979:THR:HG23	3:I:5301:ATP:C4	2.41	0.55
2:A:2175:GLU:HG3	2:A:2228:MET:HE1	1.89	0.55
2:A:2296:GLU:O	2:A:2300:SER:N	2.32	0.55
2:A:3358:PHE:HZ	2:A:3412:LEU:HB2	1.71	0.55
2:G:1230:MET:SD	2:G:1827:ARG:HG3	2.46	0.55
2:G:2626:LEU:HA	2:G:2629:ASP:HB2	1.88	0.55
2:B:251:ALA:HB1	2:B:255:HIS:HE2	1.71	0.55
2:B:1125:ASN:OD1	2:B:1126:GLY:N	2.39	0.55
2:B:2495:VAL:HG12	2:B:2498:HIS:N	2.21	0.55
2:I:3950:ASN:HA	2:I:3953:LYS:HZ2	1.72	0.55
2:A:575:LEU:HD22	2:A:609:CYS:HB3	1.87	0.55
2:A:2819:TRP:HZ3	2:A:2878:LEU:HD23	1.71	0.55
2:G:182:LEU:HB2	2:G:189:LEU:HD23	1.87	0.55
2:G:3886:ARG:HH21	2:G:3890:LEU:HD21	1.70	0.55
2:G:4059:LEU:HD22	2:G:4166:LEU:HD23	1.88	0.55
2:B:2478:THR:HG21	2:B:2485:LEU:HA	1.88	0.55
2:B:3886:ARG:HH21	2:B:3890:LEU:HD21	1.70	0.55
2:B:4060:LYS:O	2:B:4064:MET:HG3	2.07	0.55
2:I:280:LEU:HD21	2:I:316:PHE:CD2	2.41	0.55
2:I:1116:GLY:O	2:I:1134:LEU:N	2.38	0.55
2:I:1125:ASN:OD1	2:I:1126:GLY:N	2.39	0.55
2:G:917:GLU:O	2:G:921:ASN:ND2	2.29	0.55
2:G:2191:PHE:CD1	2:G:2198:MET:HE3	2.41	0.55
2:G:4088:ILE:N	2:G:4123:ILE:O	2.29	0.55
2:B:2778:GLY:HA3	2:B:2787:THR:HB	1.88	0.55
2:B:2819:TRP:HZ3	2:B:2878:LEU:HD23	1.71	0.55
2:I:3887:PHE:CZ	2:I:3891:LEU:HD21	2.42	0.55
1:F:79:ASP:OD1	1:F:80:VAL:HG13	2.05	0.55
2:A:1208:VAL:HG11	2:G:3575:LEU:HD11	1.88	0.55
2:A:2751:LEU:O	2:A:2755:ILE:HG13	2.06	0.55
2:A:3046:LEU:O	2:A:3050:VAL:HG12	2.06	0.55
2:A:3309:SER:HB2	2:A:3348:ARG:HG2	1.88	0.55
2:A:3826:VAL:HG12	2:A:3909:ASN:HB3	1.88	0.55
2:A:4031:LEU:HD11	2:A:4149:ASN:HB3	1.88	0.55
2:G:280:LEU:HD21	2:G:316:PHE:CD2	2.41	0.55
2:G:3046:LEU:O	2:G:3050:VAL:HG12	2.06	0.55
2:G:3887:PHE:O	2:G:3891:LEU:HG	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:59:PRO:HD3	2:B:307:ALA:HB3	1.89	0.55
2:B:2096:GLU:O	2:B:2100:HIS:ND1	2.39	0.55
2:B:2751:LEU:O	2:B:2755:ILE:HG13	2.06	0.55
2:B:3315:LEU:O	2:B:3319:ILE:HG12	2.07	0.55
2:B:3358:PHE:HZ	2:B:3412:LEU:HB2	1.71	0.55
2:B:4979:THR:HG23	3:B:5301:ATP:C4	2.41	0.55
2:I:2419:GLY:O	2:I:2423:MET:N	2.28	0.55
2:I:2495:VAL:HG12	2:I:2498:HIS:N	2.21	0.55
2:A:4059:LEU:HD22	2:A:4166:LEU:HD23	1.88	0.55
2:A:4060:LYS:O	2:A:4064:MET:HG3	2.07	0.55
2:A:4219:PHE:HE1	2:A:4947:GLN:HG3	1.72	0.55
1:H:90:VAL:HG12	1:H:91:ILE:HD13	1.88	0.55
2:G:2638:LYS:HZ1	2:G:2694:GLU:HB2	1.71	0.55
2:G:4878:ASP:OD1	2:G:4880:MET:N	2.37	0.55
2:B:3506:GLN:HA	2:B:3511:VAL:HG21	1.89	0.55
2:B:3887:PHE:CZ	2:B:3891:LEU:HD21	2.42	0.55
2:I:4060:LYS:O	2:I:4064:MET:HG3	2.07	0.55
2:I:4088:ILE:N	2:I:4123:ILE:O	2.29	0.55
1:F:90:VAL:HG12	1:F:91:ILE:HD13	1.88	0.55
2:A:3995:VAL:HG13	2:A:3999:MET:HE3	1.88	0.55
1:J:90:VAL:HG12	1:J:91:ILE:HD13	1.88	0.55
2:G:2475:GLN:OE1	2:G:2493:SER:OG	2.17	0.55
2:B:182:LEU:HB2	2:B:189:LEU:HD23	1.87	0.55
2:B:1265:ASP:OD1	2:B:1266:THR:N	2.39	0.55
2:B:1607:ARG:NH1	2:B:1610:ASN:OD1	2.39	0.55
2:I:56:GLN:O	2:I:309:THR:OG1	2.25	0.55
2:I:100:THR:OG1	2:I:162:LYS:NZ	2.38	0.55
2:I:394:GLN:N	2:I:397:GLU:OE2	2.36	0.55
2:I:2693:GLN:HB3	2:I:2697:ARG:NH1	2.22	0.55
2:A:59:PRO:HD3	2:A:307:ALA:HB3	1.89	0.55
2:A:1607:ARG:NH1	2:A:1610:ASN:OD1	2.39	0.55
2:A:3315:LEU:O	2:A:3319:ILE:HG12	2.07	0.55
2:G:1208:VAL:HG11	2:I:3575:LEU:HD11	1.88	0.55
2:G:3358:PHE:HZ	2:G:3412:LEU:HB2	1.71	0.55
2:G:4979:THR:HG23	3:G:5301:ATP:C4	2.41	0.55
2:B:2615:ARG:NH1	2:B:2617:SER:OG	2.40	0.55
2:I:182:LEU:HB2	2:I:189:LEU:HD23	1.87	0.55
2:I:1607:ARG:NH1	2:I:1610:ASN:OD1	2.39	0.55
2:I:2475:GLN:OE1	2:I:2493:SER:OG	2.17	0.55
2:I:4049:VAL:HG12	2:I:4163:PHE:CZ	2.42	0.55
2:A:3937:TYR:OH	2:A:3943:ILE:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4142:ASN:HA	2:A:4145:VAL:HG22	1.89	0.55
2:A:4240:ASP:O	2:A:4243:PHE:HB3	2.07	0.55
2:A:4820:VAL:HG11	2:B:4839:MET:SD	2.47	0.55
2:G:633:LEU:HB3	2:G:1639:LEU:HD11	1.88	0.55
2:G:2096:GLU:O	2:G:2100:HIS:ND1	2.39	0.55
2:G:3514:LEU:HD21	2:G:3602:VAL:HG13	1.89	0.55
2:G:4049:VAL:HG11	2:G:4159:ARG:CD	2.36	0.55
2:G:4142:ASN:HA	2:G:4145:VAL:HG22	1.89	0.55
2:B:2191:PHE:CD1	2:B:2198:MET:HE3	2.42	0.55
2:B:2693:GLN:HB3	2:B:2697:ARG:NH1	2.22	0.55
2:B:4219:PHE:HE1	2:B:4947:GLN:HG3	1.72	0.55
2:I:2478:THR:HG21	2:I:2485:LEU:HA	1.88	0.55
2:I:2626:LEU:HA	2:I:2629:ASP:HB2	1.88	0.55
2:I:3309:SER:HB2	2:I:3348:ARG:HG2	1.87	0.55
2:I:4059:LEU:HD22	2:I:4166:LEU:HD23	1.88	0.55
2:I:4104:THR:O	2:I:4108:ILE:HG12	2.07	0.55
2:I:4878:ASP:OD1	2:I:4880:MET:N	2.37	0.55
2:A:1173:SER:OG	2:A:1174:GLY:N	2.37	0.55
2:A:2575:ARG:NH2	2:A:2578:MET:SD	2.80	0.55
2:A:2868:SER:O	2:A:2872:GLN:N	2.36	0.55
2:A:3514:LEU:HD21	2:A:3602:VAL:HG13	1.89	0.55
2:A:4979:THR:HG23	3:A:5301:ATP:C4	2.41	0.55
2:G:2478:THR:HG21	2:G:2485:LEU:HA	1.88	0.55
2:G:3309:SER:HB2	2:G:3348:ARG:HG2	1.87	0.55
2:G:3506:GLN:HA	2:G:3511:VAL:HG21	1.88	0.55
2:G:3965:LEU:HB3	2:G:4026:MET:CE	2.37	0.55
2:B:2423:MET:SD	2:B:2494:PHE:HD1	2.30	0.55
2:B:3575:LEU:HD11	2:I:1208:VAL:HG11	1.87	0.55
2:I:226:HIS:ND1	2:I:226:HIS:O	2.39	0.55
2:I:1263:THR:OG1	2:I:1265:ASP:OD1	2.25	0.55
2:I:2560:PRO:O	2:I:2563:THR:OG1	2.23	0.55
2:I:3358:PHE:HZ	2:I:3412:LEU:HB2	1.71	0.55
2:A:1106:ARG:NH2	2:A:1183:GLU:OE2	2.40	0.54
2:A:2096:GLU:O	2:A:2100:HIS:ND1	2.39	0.54
2:A:2182:ILE:O	2:A:2186:MET:HG2	2.08	0.54
2:A:4104:THR:O	2:A:4108:ILE:HG12	2.07	0.54
2:A:4658:ILE:HG12	2:A:4792:LEU:HB3	1.89	0.54
2:B:2182:ILE:O	2:B:2186:MET:HG2	2.08	0.54
2:B:2575:ARG:NH2	2:B:2578:MET:SD	2.80	0.54
2:B:4059:LEU:HD22	2:B:4166:LEU:HD23	1.88	0.54
2:I:1038:SER:O	2:I:1041:GLN:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2615:ARG:NH1	2:I:2617:SER:OG	2.40	0.54
2:I:3534:MET:HA	2:I:3537:LYS:HB2	1.89	0.54
2:A:4049:VAL:HG12	2:A:4163:PHE:CZ	2.42	0.54
2:A:4951:LYS:HD2	2:A:4954:MET:HE3	1.88	0.54
2:G:1106:ARG:NH2	2:G:1183:GLU:OE2	2.40	0.54
2:G:1263:THR:OG1	2:G:1265:ASP:OD1	2.25	0.54
2:G:1433:TYR:CD2	2:G:1578:ALA:HB2	2.43	0.54
2:G:2336:ARG:NH1	2:G:2431:ASP:OD2	2.36	0.54
2:G:3534:MET:HA	2:G:3537:LYS:HB2	1.89	0.54
2:G:4031:LEU:HD11	2:G:4149:ASN:HB3	1.88	0.54
2:G:4060:LYS:O	2:G:4064:MET:HG3	2.07	0.54
2:G:4240:ASP:O	2:G:4243:PHE:HB3	2.07	0.54
2:B:350:HIS:HD2	2:B:352:ALA:H	1.55	0.54
2:B:1106:ARG:NH2	2:B:1183:GLU:OE2	2.40	0.54
2:B:3534:MET:HA	2:B:3537:LYS:HB2	1.89	0.54
2:B:4142:ASN:HA	2:B:4145:VAL:HG22	1.89	0.54
2:B:4240:ASP:O	2:B:4243:PHE:HB3	2.07	0.54
2:I:251:ALA:HB1	2:I:255:HIS:HE2	1.71	0.54
2:I:840:VAL:HG23	2:I:1199:VAL:HG12	1.87	0.54
2:I:872:GLU:OE2	2:I:872:GLU:N	2.36	0.54
2:I:2751:LEU:O	2:I:2755:ILE:HG13	2.06	0.54
2:I:3315:LEU:O	2:I:3319:ILE:HG12	2.07	0.54
2:I:4142:ASN:HA	2:I:4145:VAL:HG22	1.89	0.54
2:A:1038:SER:O	2:A:1041:GLN:HG3	2.08	0.54
2:A:2495:VAL:HB	2:A:2498:HIS:HB2	1.89	0.54
2:A:2615:ARG:NH1	2:A:2617:SER:OG	2.40	0.54
2:A:3018:LEU:HD13	2:A:3150:HIS:CE1	2.43	0.54
2:A:4823:LEU:CD1	2:B:4843:LEU:HD22	2.36	0.54
2:G:3887:PHE:CZ	2:G:3891:LEU:HD21	2.42	0.54
2:G:4049:VAL:HG12	2:G:4163:PHE:CZ	2.42	0.54
2:B:5013:MET:HG3	2:B:5018:CYS:HB3	1.88	0.54
2:I:350:HIS:HD2	2:I:352:ALA:H	1.55	0.54
2:I:3018:LEU:HD13	2:I:3150:HIS:CE1	2.43	0.54
2:I:3215:ALA:O	2:I:3221:THR:OG1	2.20	0.54
2:I:3514:LEU:HD21	2:I:3602:VAL:HG13	1.89	0.54
2:I:4031:LEU:HD11	2:I:4149:ASN:HB3	1.88	0.54
2:G:2615:ARG:NH1	2:G:2617:SER:OG	2.40	0.54
2:G:2693:GLN:HB3	2:G:2697:ARG:NH1	2.22	0.54
2:G:2751:LEU:O	2:G:2755:ILE:HG13	2.06	0.54
2:G:3097:GLU:OE2	2:G:3167:ARG:NH2	2.41	0.54
2:G:3937:TYR:OH	2:G:3943:ILE:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:226:HIS:ND1	2:B:226:HIS:O	2.39	0.54
2:B:633:LEU:HB3	2:B:1639:LEU:HD11	1.88	0.54
2:B:1263:THR:OG1	2:B:1265:ASP:OD1	2.25	0.54
2:I:73:LEU:C	2:I:105:HIS:HD1	2.06	0.54
2:I:2778:GLY:HA3	2:I:2787:THR:HB	1.88	0.54
2:A:56:GLN:O	2:A:309:THR:OG1	2.25	0.54
2:A:1248:VAL:HG22	2:A:1599:MET:HE3	1.90	0.54
2:A:2693:GLN:HB3	2:A:2697:ARG:NH1	2.22	0.54
2:G:100:THR:OG1	2:G:162:LYS:NZ	2.38	0.54
2:G:4097:MET:HE2	2:G:4108:ILE:HD13	1.88	0.54
2:G:4219:PHE:HE1	2:G:4947:GLN:HG3	1.72	0.54
2:B:4049:VAL:HG12	2:B:4163:PHE:CZ	2.42	0.54
2:I:59:PRO:HD3	2:I:307:ALA:HB3	1.89	0.54
2:I:633:LEU:HB3	2:I:1639:LEU:HD11	1.88	0.54
2:A:2778:GLY:HA3	2:A:2787:THR:HB	1.88	0.54
2:A:3084:GLY:O	2:A:3089:LYS:NZ	2.40	0.54
2:A:3887:PHE:CZ	2:A:3891:LEU:HD21	2.42	0.54
1:O:90:VAL:HG12	1:O:91:ILE:HD13	1.88	0.54
2:G:2575:ARG:NH2	2:G:2578:MET:SD	2.80	0.54
2:G:3527:PRO:HB3	2:G:3569:LEU:HD12	1.90	0.54
2:G:3534:MET:O	2:G:3538:THR:N	2.26	0.54
2:B:3937:TYR:OH	2:B:3943:ILE:N	2.40	0.54
2:B:4104:THR:O	2:B:4108:ILE:HG12	2.07	0.54
2:I:2182:ILE:O	2:I:2186:MET:HG2	2.08	0.54
2:I:2191:PHE:CD1	2:I:2198:MET:HE3	2.42	0.54
2:I:2423:MET:SD	2:I:2494:PHE:HD1	2.30	0.54
2:I:3506:GLN:HA	2:I:3511:VAL:HG21	1.88	0.54
2:I:4097:MET:HE2	2:I:4108:ILE:HD13	1.90	0.54
2:A:228:ASP:OD1	2:A:228:ASP:N	2.40	0.54
2:A:1433:TYR:CD2	2:A:1578:ALA:HB2	2.43	0.54
2:A:2212:VAL:HG22	2:A:2256:TYR:CZ	2.43	0.54
2:A:3090:ALA:HA	2:A:3093:ARG:NH2	2.23	0.54
2:G:1038:SER:O	2:G:1041:GLN:HG3	2.07	0.54
2:G:4658:ILE:HG12	2:G:4792:LEU:HB3	1.89	0.54
2:B:73:LEU:C	2:B:105:HIS:HD1	2.06	0.54
2:B:2336:ARG:NH1	2:B:2431:ASP:OD2	2.36	0.54
2:B:2638:LYS:HZ1	2:B:2694:GLU:HB2	1.72	0.54
2:A:74:SER:HG	2:A:77:ALA:H	1.55	0.54
2:A:3780:LEU:HD11	2:A:3816:MET:HB3	1.90	0.54
2:A:4049:VAL:HG11	2:A:4159:ARG:CD	2.36	0.54
2:A:4888:TYR:CD1	2:B:4914:VAL:HG13	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2495:VAL:HB	2:B:2498:HIS:HB2	1.89	0.54
2:B:4238:CYS:HA	2:B:4241:THR:OG1	2.08	0.54
2:I:74:SER:HG	2:I:77:ALA:H	1.53	0.54
2:I:1106:ARG:NH2	2:I:1183:GLU:OE2	2.40	0.54
2:I:2096:GLU:O	2:I:2100:HIS:ND1	2.39	0.54
2:I:2495:VAL:HB	2:I:2498:HIS:HB2	1.89	0.54
2:I:2575:ARG:NH2	2:I:2578:MET:SD	2.80	0.54
2:I:3084:GLY:O	2:I:3089:LYS:NZ	2.41	0.54
2:I:3097:GLU:OE2	2:I:3167:ARG:NH2	2.41	0.54
2:I:3103:ILE:HD13	2:I:3168:THR:HG23	1.90	0.54
2:A:2423:MET:SD	2:A:2494:PHE:HD1	2.30	0.54
2:G:59:PRO:HD3	2:G:307:ALA:HB3	1.89	0.54
2:G:1279:SER:N	2:G:1282:SER:OG	2.36	0.54
2:G:2212:VAL:HG22	2:G:2256:TYR:CZ	2.43	0.54
2:G:3018:LEU:HD13	2:G:3150:HIS:CE1	2.43	0.54
2:G:3103:ILE:HD13	2:G:3168:THR:HG23	1.90	0.54
2:B:2620:GLN:O	2:B:2624:ARG:N	2.37	0.54
2:B:3812:VAL:O	2:B:3816:MET:HG3	2.08	0.54
2:I:2212:VAL:HG22	2:I:2256:TYR:CZ	2.43	0.54
2:I:2296:GLU:O	2:I:2300:SER:N	2.31	0.54
2:I:2920:ARG:O	2:I:2924:GLN:HG2	2.08	0.54
2:I:3527:PRO:HB3	2:I:3569:LEU:HD12	1.90	0.54
2:A:14:LEU:H	2:A:163:VAL:HG23	1.73	0.54
2:A:226:HIS:ND1	2:A:226:HIS:O	2.39	0.54
2:A:3812:VAL:O	2:A:3816:MET:HG3	2.08	0.54
2:G:1005:TRP:HA	2:G:1016:ARG:O	2.09	0.54
2:G:2495:VAL:HB	2:G:2498:HIS:HB2	1.89	0.54
2:B:14:LEU:H	2:B:163:VAL:HG23	1.73	0.54
2:B:228:ASP:OD1	2:B:228:ASP:N	2.40	0.54
2:B:1433:TYR:CD2	2:B:1578:ALA:HB2	2.43	0.54
2:B:3527:PRO:HB3	2:B:3569:LEU:HD12	1.90	0.54
2:I:883:ALA:HB1	2:I:905:PRO:HA	1.91	0.54
2:I:3812:VAL:O	2:I:3816:MET:HG3	2.08	0.54
2:I:4219:PHE:HE1	2:I:4947:GLN:HG3	1.72	0.54
2:A:1263:THR:OG1	2:A:1265:ASP:OD1	2.25	0.53
2:A:2635:GLU:OE1	2:A:2635:GLU:N	2.32	0.53
2:G:45:ARG:NH2	2:G:139:GLU:OE2	2.41	0.53
2:G:3084:GLY:O	2:G:3089:LYS:NZ	2.40	0.53
2:B:649:PHE:HB3	2:B:776:LEU:HD13	1.90	0.53
2:B:3018:LEU:HD13	2:B:3150:HIS:CE1	2.43	0.53
2:B:3097:GLU:OE2	2:B:3167:ARG:NH2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3583:GLU:O	2:B:3585:ASP:N	2.37	0.53
2:I:1433:TYR:CD2	2:I:1578:ALA:HB2	2.43	0.53
1:F:22:CYS:HB3	1:F:103:LEU:HD11	1.91	0.53
2:A:41:GLY:HA2	2:A:137:LEU:HD12	1.90	0.53
2:A:1005:TRP:HA	2:A:1016:ARG:O	2.08	0.53
2:A:3097:GLU:OE2	2:A:3167:ARG:NH2	2.41	0.53
2:A:3314:SER:O	2:A:3318:ASN:ND2	2.34	0.53
2:G:2620:GLN:O	2:G:2624:ARG:N	2.37	0.53
2:G:2920:ARG:O	2:G:2924:GLN:HG2	2.08	0.53
2:G:3812:VAL:O	2:G:3816:MET:HG3	2.08	0.53
2:G:4237:PHE:HE1	2:G:4668:LEU:HD11	1.73	0.53
2:B:41:GLY:HA2	2:B:137:LEU:HD12	1.90	0.53
2:B:2560:PRO:O	2:B:2563:THR:OG1	2.23	0.53
2:B:2868:SER:O	2:B:2872:GLN:N	2.36	0.53
2:B:3514:LEU:HD21	2:B:3602:VAL:HG13	1.89	0.53
2:B:3995:VAL:HG13	2:B:3999:MET:HE3	1.90	0.53
2:B:4087:LEU:O	2:B:4122:MET:HE3	2.07	0.53
2:I:920:TYR:HA	2:I:923:GLN:HB3	1.90	0.53
2:I:3090:ALA:HA	2:I:3093:ARG:NH2	2.23	0.53
2:A:350:HIS:CD2	2:A:352:ALA:H	2.27	0.53
1:O:22:CYS:HB3	1:O:103:LEU:HD11	1.91	0.53
2:G:649:PHE:HB3	2:G:776:LEU:HD13	1.90	0.53
2:G:1719:HIS:CD2	2:G:1802:ILE:HB	2.44	0.53
2:G:3314:SER:O	2:G:3318:ASN:ND2	2.34	0.53
2:G:3780:LEU:HD11	2:G:3816:MET:HB3	1.90	0.53
2:G:4104:THR:O	2:G:4108:ILE:HG12	2.07	0.53
2:G:5007:GLU:OE1	2:G:5007:GLU:N	2.41	0.53
2:B:76:ARG:NH2	2:B:79:GLN:OE1	2.42	0.53
2:B:1719:HIS:CD2	2:B:1802:ILE:HB	2.44	0.53
2:I:2239:PHE:CD2	2:I:2250:MET:HE2	2.38	0.53
2:I:3937:TYR:OH	2:I:3943:ILE:N	2.40	0.53
2:I:3995:VAL:HG13	2:I:3999:MET:HE3	1.90	0.53
2:I:4658:ILE:HG12	2:I:4792:LEU:HB3	1.89	0.53
2:I:5007:GLU:OE1	2:I:5007:GLU:N	2.41	0.53
2:A:214:VAL:HG22	2:A:341:TYR:CZ	2.44	0.53
2:A:350:HIS:HD2	2:A:352:ALA:H	1.55	0.53
2:A:491:ILE:O	2:A:495:ASN:ND2	2.41	0.53
2:A:4238:CYS:HA	2:A:4241:THR:OG1	2.08	0.53
1:H:54:GLU:H	1:H:54:GLU:CD	2.08	0.53
2:G:2296:GLU:O	2:G:2300:SER:N	2.31	0.53
2:G:2827:ARG:HE	2:G:2934:GLY:HA2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:491:ILE:O	2:B:495:ASN:ND2	2.41	0.53
2:B:1038:SER:O	2:B:1041:GLN:HG3	2.08	0.53
2:B:2920:ARG:O	2:B:2924:GLN:HG2	2.08	0.53
2:B:3780:LEU:HD11	2:B:3816:MET:HB3	1.90	0.53
2:I:491:ILE:O	2:I:495:ASN:ND2	2.41	0.53
2:I:1005:TRP:HA	2:I:1016:ARG:O	2.08	0.53
2:I:1279:SER:N	2:I:1282:SER:OG	2.36	0.53
2:I:2827:ARG:HE	2:I:2934:GLY:HA2	1.74	0.53
2:I:2868:SER:O	2:I:2872:GLN:N	2.36	0.53
2:I:4000:MET:HE1	2:I:4061:PHE:HB2	1.90	0.53
2:I:4238:CYS:HA	2:I:4241:THR:OG1	2.08	0.53
2:I:4240:ASP:O	2:I:4243:PHE:HB3	2.07	0.53
2:A:209:CYS:HB2	2:A:273:HIS:NE2	2.24	0.53
2:A:676:THR:HG22	2:A:677:ALA:N	2.23	0.53
2:A:2239:PHE:CD2	2:A:2250:MET:HE2	2.40	0.53
2:A:2495:VAL:HG12	2:A:2498:HIS:N	2.21	0.53
2:A:2920:ARG:O	2:A:2924:GLN:HG2	2.08	0.53
2:A:3534:MET:HA	2:A:3537:LYS:HB2	1.89	0.53
2:A:3965:LEU:HB3	2:A:4026:MET:CE	2.37	0.53
1:J:27:THR:HG23	1:J:38:SER:HB3	1.90	0.53
2:G:76:ARG:NH2	2:G:79:GLN:OE1	2.42	0.53
2:G:107:ILE:HG13	2:G:148:TRP:HB2	1.91	0.53
2:G:1196:PRO:O	2:G:1198:GLN:NE2	2.19	0.53
2:G:3995:VAL:HG13	2:G:3999:MET:HE3	1.89	0.53
2:B:209:CYS:HB2	2:B:273:HIS:NE2	2.24	0.53
2:B:883:ALA:HB1	2:B:905:PRO:HA	1.91	0.53
2:B:2578:MET:O	2:B:2581:SER:OG	2.22	0.53
2:B:3090:ALA:HA	2:B:3093:ARG:NH2	2.23	0.53
2:B:4658:ILE:HG12	2:B:4792:LEU:HB3	1.89	0.53
2:I:14:LEU:H	2:I:163:VAL:HG23	1.74	0.53
2:I:41:GLY:HA2	2:I:137:LEU:HD12	1.90	0.53
2:I:228:ASP:N	2:I:228:ASP:OD1	2.40	0.53
2:I:2929:PHE:HA	2:I:2932:MET:HB2	1.91	0.53
2:I:3206:LEU:HD23	2:I:3207:GLU:HG3	1.91	0.53
1:F:27:THR:HG23	1:F:38:SER:HB3	1.90	0.53
2:A:257:ARG:HA	2:A:286:THR:HG21	1.91	0.53
1:J:22:CYS:HB3	1:J:103:LEU:HD11	1.91	0.53
2:G:289:ARG:HD2	2:G:301:VAL:HG23	1.91	0.53
2:G:491:ILE:O	2:G:495:ASN:ND2	2.41	0.53
2:G:2423:MET:SD	2:G:2494:PHE:HD1	2.30	0.53
2:G:2929:PHE:HA	2:G:2932:MET:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3350:ARG:NH2	2:G:3353:LEU:HD21	2.24	0.53
2:B:1509:ILE:H	2:B:1509:ILE:HD12	1.73	0.53
2:B:3084:GLY:O	2:B:3089:LYS:NZ	2.40	0.53
2:B:3206:LEU:HD23	2:B:3207:GLU:HG3	1.91	0.53
2:B:4701:TRP:CZ2	2:B:4781:GLY:HA3	2.44	0.53
2:I:1196:PRO:O	2:I:1198:GLN:NE2	2.19	0.53
2:I:1509:ILE:HD12	2:I:1509:ILE:H	1.73	0.53
2:I:3038:MET:O	2:I:3042:LEU:HG	2.09	0.53
2:A:920:TYR:HA	2:A:923:GLN:HB3	1.90	0.53
2:A:2827:ARG:HE	2:A:2934:GLY:HA2	1.74	0.53
2:A:3036:LYS:HA	2:A:3039:ILE:HD12	1.91	0.53
2:A:4701:TRP:CZ2	2:A:4781:GLY:HA3	2.44	0.53
2:A:4895:GLY:O	2:G:4892:ARG:NH1	2.40	0.53
2:G:14:LEU:H	2:G:163:VAL:HG23	1.74	0.53
2:G:214:VAL:HG22	2:G:341:TYR:CZ	2.44	0.53
2:G:228:ASP:OD1	2:G:228:ASP:N	2.40	0.53
2:G:1509:ILE:H	2:G:1509:ILE:HD12	1.73	0.53
2:G:2182:ILE:O	2:G:2186:MET:HG2	2.08	0.53
2:G:3676:ASP:OD1	2:G:3677:LEU:N	2.42	0.53
2:B:45:ARG:NH2	2:B:139:GLU:OE2	2.41	0.53
2:B:56:GLN:O	2:B:309:THR:OG1	2.25	0.53
2:B:296:ASP:OD1	2:B:297:GLN:N	2.42	0.53
2:B:350:HIS:CD2	2:B:352:ALA:H	2.27	0.53
2:B:4884:LEU:HD11	2:I:4914:VAL:HG11	1.91	0.53
2:I:76:ARG:NH2	2:I:79:GLN:OE1	2.42	0.53
2:I:3036:LYS:HA	2:I:3039:ILE:HD12	1.91	0.53
2:A:76:ARG:NH2	2:A:79:GLN:OE1	2.42	0.53
2:A:872:GLU:OE2	2:A:872:GLU:N	2.36	0.53
2:A:3212:GLU:OE1	2:A:3212:GLU:N	2.42	0.53
2:G:2648:TYR:HE2	2:G:2706:ILE:HG12	1.74	0.53
2:G:3315:LEU:O	2:G:3319:ILE:HG12	2.07	0.53
2:G:3875:MET:O	2:G:3876:ALA:C	2.47	0.53
2:G:4238:CYS:HA	2:G:4241:THR:OG1	2.08	0.53
2:B:257:ARG:HA	2:B:286:THR:HG21	1.91	0.53
2:B:920:TYR:HA	2:B:923:GLN:HB3	1.90	0.53
2:B:940:GLY:O	2:B:1052:ASN:N	2.38	0.53
2:B:2296:GLU:O	2:B:2300:SER:N	2.32	0.53
2:B:3380:ARG:HD2	2:B:3391:GLU:HG3	1.91	0.53
2:I:350:HIS:CD2	2:I:352:ALA:H	2.27	0.53
2:I:1629:GLN:NE2	2:I:1631:GLN:OE1	2.41	0.53
2:I:3103:ILE:O	2:I:3106:MET:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3182:TYR:HA	2:I:3185:LYS:HD3	1.91	0.53
2:I:3380:ARG:HD2	2:I:3391:GLU:HG3	1.91	0.53
2:I:4035:VAL:HA	2:I:4189:ARG:HH21	1.74	0.53
2:A:1509:ILE:HD12	2:A:1509:ILE:H	1.73	0.53
2:A:3206:LEU:HD23	2:A:3207:GLU:HG3	1.91	0.53
2:A:3527:PRO:HB3	2:A:3569:LEU:HD12	1.90	0.53
2:A:3875:MET:O	2:A:3876:ALA:C	2.47	0.53
1:H:22:CYS:HB3	1:H:103:LEU:HD11	1.91	0.53
2:G:209:CYS:HB2	2:G:273:HIS:NE2	2.24	0.53
2:G:350:HIS:HD2	2:G:352:ALA:H	1.55	0.53
2:G:2115:GLU:OE1	2:G:2115:GLU:N	2.38	0.53
2:G:3038:MET:O	2:G:3042:LEU:HG	2.09	0.53
2:G:3182:TYR:HA	2:G:3185:LYS:HD3	1.91	0.53
2:G:3391:GLU:HA	2:G:3394:VAL:HG22	1.90	0.53
2:B:2590:SER:O	2:B:2600:ARG:NH1	2.42	0.53
2:B:3036:LYS:HA	2:B:3039:ILE:HD12	1.91	0.53
2:B:3103:ILE:HD13	2:B:3168:THR:HG23	1.90	0.53
2:B:3391:GLU:HA	2:B:3394:VAL:HG22	1.90	0.53
2:B:3875:MET:O	2:B:3876:ALA:C	2.47	0.53
2:I:273:HIS:ND1	2:I:335:GLY:O	2.42	0.53
2:I:676:THR:HG22	2:I:677:ALA:N	2.23	0.53
2:I:3532:LEU:HD23	2:I:3535:LEU:HD12	1.91	0.53
2:I:3780:LEU:HD11	2:I:3816:MET:HB3	1.90	0.53
2:A:45:ARG:NH2	2:A:139:GLU:OE2	2.41	0.53
2:A:3182:TYR:HA	2:A:3185:LYS:HD3	1.91	0.53
2:A:3391:GLU:HA	2:A:3394:VAL:HG22	1.90	0.53
2:G:3036:LYS:HA	2:G:3039:ILE:HD12	1.91	0.53
2:G:3137:LEU:HB3	2:G:3138:PRO:HD3	1.91	0.53
2:G:4224:GLU:O	2:G:4230:LYS:HE2	2.09	0.53
2:B:394:GLN:N	2:B:397:GLU:OE2	2.36	0.53
2:B:2212:VAL:HG22	2:B:2256:TYR:CZ	2.43	0.53
2:B:2635:GLU:OE1	2:B:2635:GLU:N	2.32	0.53
2:B:2648:TYR:HE2	2:B:2706:ILE:HG12	1.74	0.53
2:B:3669:PHE:HA	2:B:3672:ARG:HH21	1.74	0.53
2:B:4197:ILE:HD13	2:B:4990:PHE:HB3	1.91	0.53
2:B:4968:PHE:O	2:B:4974:GLY:HA3	2.09	0.53
2:I:214:VAL:HG22	2:I:341:TYR:CZ	2.44	0.53
2:I:2912:THR:HG23	2:I:2915:GLU:H	1.74	0.53
2:A:296:ASP:OD1	2:A:297:GLN:N	2.42	0.52
2:A:649:PHE:HB3	2:A:776:LEU:HD13	1.90	0.52
2:A:1719:HIS:CD2	2:A:1802:ILE:HB	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:41:GLY:HA2	2:G:137:LEU:HD12	1.90	0.52
2:G:883:ALA:HB1	2:G:905:PRO:HA	1.91	0.52
2:G:2590:SER:O	2:G:2600:ARG:NH1	2.42	0.52
2:G:2912:THR:HG23	2:G:2915:GLU:H	1.74	0.52
2:B:273:HIS:ND1	2:B:335:GLY:O	2.42	0.52
2:B:3107:VAL:O	2:B:3111:ARG:HG2	2.09	0.52
2:B:4237:PHE:HE1	2:B:4668:LEU:HD11	1.74	0.52
2:I:289:ARG:HD2	2:I:301:VAL:HG23	1.91	0.52
2:I:3107:VAL:O	2:I:3111:ARG:HG2	2.09	0.52
2:I:3198:ALA:HB2	2:I:3276:MET:HG3	1.91	0.52
2:I:3391:GLU:HA	2:I:3394:VAL:HG22	1.90	0.52
2:A:883:ALA:HB1	2:A:905:PRO:HA	1.90	0.52
2:A:1260:MET:HB2	2:A:1269:CYS:SG	2.50	0.52
2:A:2648:TYR:HE2	2:A:2706:ILE:HG12	1.74	0.52
2:A:2912:THR:HG23	2:A:2915:GLU:H	1.74	0.52
2:A:4224:GLU:O	2:A:4230:LYS:HE2	2.09	0.52
2:G:350:HIS:CD2	2:G:352:ALA:H	2.27	0.52
2:G:920:TYR:HA	2:G:923:GLN:HB3	1.90	0.52
2:B:2752:ASP:HA	2:B:2755:ILE:HD12	1.90	0.52
2:B:3038:MET:O	2:B:3042:LEU:HG	2.09	0.52
2:B:3212:GLU:OE1	2:B:3212:GLU:N	2.42	0.52
2:B:5007:GLU:N	2:B:5007:GLU:OE1	2.41	0.52
2:I:45:ARG:NH2	2:I:139:GLU:OE2	2.41	0.52
2:I:3137:LEU:HB3	2:I:3138:PRO:HD3	1.91	0.52
2:I:4197:ILE:HD13	2:I:4990:PHE:HB3	1.92	0.52
2:A:2115:GLU:OE1	2:A:2115:GLU:N	2.39	0.52
2:A:2634:ASN:HD21	2:A:2636:PHE:HB2	1.75	0.52
2:A:3038:MET:O	2:A:3042:LEU:HG	2.09	0.52
2:A:3107:VAL:O	2:A:3111:ARG:HG2	2.09	0.52
2:A:4237:PHE:HE1	2:A:4668:LEU:HD11	1.73	0.52
2:A:4243:PHE:O	2:A:4247:ILE:HD12	2.10	0.52
2:A:4968:PHE:O	2:A:4974:GLY:HA3	2.09	0.52
1:H:27:THR:HG23	1:H:38:SER:HB3	1.90	0.52
2:G:1867:GLU:OE2	2:G:1928:GLN:NE2	2.42	0.52
2:G:2634:ASN:HD21	2:G:2636:PHE:HB2	1.75	0.52
2:G:2716:ASP:HB2	2:G:2719:TYR:HD1	1.75	0.52
2:G:3532:LEU:HD23	2:G:3535:LEU:HD12	1.91	0.52
2:G:3669:PHE:HA	2:G:3672:ARG:HH21	1.74	0.52
2:B:289:ARG:HD2	2:B:301:VAL:HG23	1.91	0.52
2:B:3676:ASP:OD1	2:B:3677:LEU:N	2.42	0.52
2:B:4035:VAL:HA	2:B:4189:ARG:HH21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:209:CYS:HB2	2:I:273:HIS:NE2	2.24	0.52
2:I:1149:VAL:HG13	2:I:1149:VAL:O	2.10	0.52
2:I:2590:SER:O	2:I:2600:ARG:NH1	2.42	0.52
2:I:4237:PHE:HE1	2:I:4668:LEU:HD11	1.73	0.52
2:I:4968:PHE:O	2:I:4974:GLY:HA3	2.09	0.52
2:I:4976:GLU:O	2:I:4980:LEU:N	2.41	0.52
2:A:862:VAL:O	2:A:864:PRO:HD3	2.10	0.52
2:A:3103:ILE:HD13	2:A:3168:THR:HG23	1.90	0.52
2:A:3350:ARG:NH2	2:A:3353:LEU:HD21	2.24	0.52
2:A:4000:MET:SD	2:A:4001:MET:N	2.83	0.52
2:G:862:VAL:O	2:G:864:PRO:HD3	2.10	0.52
2:G:3148:ALA:HB2	2:G:3196:ARG:HH22	1.75	0.52
2:G:3719:ASP:H	2:G:3793:MET:CE	2.23	0.52
2:G:4035:VAL:HA	2:G:4189:ARG:HH21	1.74	0.52
2:B:1259:ARG:HD2	2:B:1270:LEU:HD22	1.92	0.52
2:B:1867:GLU:OE2	2:B:1928:GLN:NE2	2.43	0.52
2:B:2827:ARG:HE	2:B:2934:GLY:HA2	1.74	0.52
2:B:3350:ARG:NH2	2:B:3353:LEU:HD21	2.24	0.52
2:I:649:PHE:HB3	2:I:776:LEU:HD13	1.90	0.52
2:I:1719:HIS:CD2	2:I:1802:ILE:HB	2.44	0.52
2:I:2175:GLU:OE2	2:I:2227:LYS:NZ	2.42	0.52
2:I:2648:TYR:HE2	2:I:2706:ILE:HG12	1.74	0.52
2:I:3212:GLU:OE1	2:I:3212:GLU:N	2.42	0.52
2:I:3719:ASP:H	2:I:3793:MET:CE	2.23	0.52
2:I:4243:PHE:O	2:I:4247:ILE:HD12	2.10	0.52
2:A:2590:SER:O	2:A:2600:ARG:NH1	2.42	0.52
2:A:2638:LYS:HZ1	2:A:2694:GLU:HB2	1.73	0.52
2:A:2716:ASP:HB2	2:A:2719:TYR:HD1	1.75	0.52
2:A:3103:ILE:O	2:A:3106:MET:HG2	2.09	0.52
2:A:3141:THR:HG22	2:A:3193:CYS:HA	1.92	0.52
2:A:3669:PHE:HA	2:A:3672:ARG:HH21	1.74	0.52
2:A:4197:ILE:HD13	2:A:4990:PHE:HB3	1.91	0.52
2:A:5007:GLU:OE1	2:A:5007:GLU:N	2.41	0.52
2:G:286:THR:HG23	2:G:287:THR:HG23	1.92	0.52
2:G:3206:LEU:HD23	2:G:3207:GLU:HG3	1.91	0.52
2:G:4701:TRP:CZ2	2:G:4781:GLY:HA3	2.44	0.52
2:B:214:VAL:HG22	2:B:341:TYR:CZ	2.44	0.52
2:B:3103:ILE:O	2:B:3106:MET:HG2	2.09	0.52
2:B:4054:ASN:O	2:B:4058:ILE:HG13	2.10	0.52
2:B:4658:ILE:CG1	2:B:4792:LEU:HB3	2.40	0.52
2:I:296:ASP:OD1	2:I:297:GLN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1867:GLU:OE2	2:I:1928:GLN:NE2	2.42	0.52
2:I:4054:ASN:O	2:I:4058:ILE:HG13	2.10	0.52
2:I:4142:ASN:OD1	2:I:4143:VAL:N	2.43	0.52
2:A:2560:PRO:O	2:A:2563:THR:OG1	2.23	0.52
2:A:3019:SER:O	2:A:3036:LYS:NZ	2.42	0.52
2:A:3050:VAL:HG23	2:A:3131:TYR:OH	2.10	0.52
2:A:3637:ARG:HH21	2:A:3640:PRO:HD3	1.75	0.52
2:G:56:GLN:O	2:G:309:THR:OG1	2.25	0.52
2:G:296:ASP:OD1	2:G:297:GLN:N	2.42	0.52
2:G:1260:MET:HB2	2:G:1269:CYS:SG	2.49	0.52
2:G:1561:VAL:HG23	2:G:1562:ILE:H	1.74	0.52
2:G:4914:VAL:HG11	2:I:4884:LEU:HD11	1.92	0.52
2:B:1005:TRP:HA	2:B:1016:ARG:O	2.08	0.52
2:I:1259:ARG:HD2	2:I:1270:LEU:HD22	1.92	0.52
2:I:1260:MET:HB2	2:I:1269:CYS:SG	2.49	0.52
2:I:4701:TRP:CZ2	2:I:4781:GLY:HA3	2.44	0.52
2:A:1867:GLU:OE2	2:A:1928:GLN:NE2	2.43	0.52
2:A:2752:ASP:HA	2:A:2755:ILE:HD12	1.90	0.52
2:A:3532:LEU:HD23	2:A:3535:LEU:HD12	1.91	0.52
2:G:1149:VAL:O	2:G:1149:VAL:HG13	2.10	0.52
2:G:1629:GLN:NE2	2:G:1631:GLN:OE1	2.41	0.52
2:G:2992:GLU:HA	2:G:2995:ILE:HD12	1.92	0.52
2:G:3050:VAL:HG23	2:G:3131:TYR:OH	2.10	0.52
2:G:3103:ILE:O	2:G:3106:MET:HG2	2.09	0.52
2:G:3637:ARG:HH21	2:G:3640:PRO:HD3	1.75	0.52
2:G:4054:ASN:O	2:G:4058:ILE:HG13	2.10	0.52
2:B:676:THR:HG22	2:B:677:ALA:N	2.23	0.52
2:I:107:ILE:HG13	2:I:148:TRP:HB2	1.91	0.52
2:I:1928:GLN:OE1	2:I:1928:GLN:N	2.42	0.52
2:I:4000:MET:SD	2:I:4001:MET:N	2.83	0.52
2:I:4658:ILE:CG1	2:I:4792:LEU:HB3	2.40	0.52
2:A:1927:LEU:HD13	2:A:2101:MET:HG3	1.92	0.52
2:A:3148:ALA:HB2	2:A:3196:ARG:HH22	1.75	0.52
2:A:3380:ARG:HD2	2:A:3391:GLU:HG3	1.91	0.52
2:A:4654:ALA:HB1	2:A:4796:MET:HE1	1.92	0.52
2:A:4688:ILE:HD11	2:A:4737:ILE:HG21	1.92	0.52
2:G:3090:ALA:HA	2:G:3093:ARG:NH2	2.23	0.52
2:G:3380:ARG:HD2	2:G:3391:GLU:HG3	1.91	0.52
2:B:652:ARG:HB3	2:B:750:LEU:HD13	1.92	0.52
2:B:1260:MET:HB2	2:B:1269:CYS:SG	2.49	0.52
2:B:3198:ALA:HB2	2:B:3276:MET:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4142:ASN:OD1	2:B:4143:VAL:N	2.43	0.52
2:I:102:LEU:HB2	2:I:105:HIS:CD2	2.45	0.52
2:I:257:ARG:HA	2:I:286:THR:HG21	1.91	0.52
2:I:2466:LEU:O	2:I:2470:ILE:HG12	2.10	0.52
2:I:2647:HIS:O	2:I:2651:CYS:N	2.34	0.52
2:I:3050:VAL:HG23	2:I:3131:TYR:OH	2.10	0.52
2:I:3267:PRO:HB2	2:I:3270:ILE:HG12	1.92	0.52
2:I:3875:MET:O	2:I:3876:ALA:C	2.47	0.52
2:I:4229:GLU:HG2	2:I:5019:TRP:HD1	1.75	0.52
2:A:1149:VAL:HG13	2:A:1149:VAL:O	2.10	0.52
2:A:3676:ASP:OD1	2:A:3677:LEU:N	2.42	0.52
2:A:4087:LEU:O	2:A:4122:MET:HE3	2.09	0.52
1:O:27:THR:HG23	1:O:38:SER:HB3	1.90	0.52
2:G:273:HIS:ND1	2:G:335:GLY:O	2.42	0.52
2:G:1927:LEU:HD13	2:G:2101:MET:HG3	1.92	0.52
2:G:2747:ILE:HG12	2:G:2814:LYS:HG3	1.92	0.52
2:G:2758:PHE:HD2	2:G:2809:ILE:HG12	1.75	0.52
2:G:3198:ALA:HB2	2:G:3276:MET:HG3	1.91	0.52
2:G:3212:GLU:OE1	2:G:3212:GLU:N	2.42	0.52
2:G:4914:VAL:HG13	2:I:4888:TYR:CD1	2.45	0.52
2:B:1149:VAL:O	2:B:1149:VAL:HG13	2.10	0.52
2:B:1248:VAL:HG22	2:B:1599:MET:HE3	1.92	0.52
2:B:1928:GLN:N	2:B:1928:GLN:OE1	2.42	0.52
2:B:2466:LEU:O	2:B:2470:ILE:HG12	2.10	0.52
2:B:4000:MET:HE1	2:B:4061:PHE:HB2	1.91	0.52
2:B:4097:MET:HE2	2:B:4108:ILE:HD13	1.90	0.52
2:I:2752:ASP:HA	2:I:2755:ILE:HD12	1.91	0.52
2:A:213:TYR:HA	2:A:339:ILE:O	2.10	0.52
2:A:394:GLN:N	2:A:397:GLU:OE2	2.36	0.52
2:A:2012:PHE:CE2	2:A:2028:ARG:HB2	2.45	0.52
2:A:2992:GLU:HA	2:A:2995:ILE:HD12	1.92	0.52
2:A:4035:VAL:HA	2:A:4189:ARG:HH21	1.74	0.52
2:G:2012:PHE:CE2	2:G:2028:ARG:HB2	2.45	0.52
2:G:2239:PHE:CD2	2:G:2250:MET:HE2	2.40	0.52
2:G:3107:VAL:O	2:G:3111:ARG:HG2	2.09	0.52
2:G:4059:LEU:CD2	2:G:4167:ALA:HB2	2.40	0.52
2:G:4142:ASN:OD1	2:G:4143:VAL:N	2.43	0.52
2:G:4197:ILE:HD13	2:G:4990:PHE:HB3	1.91	0.52
2:G:4968:PHE:O	2:G:4974:GLY:HA3	2.09	0.52
2:B:1935:VAL:HG12	2:B:1939:MET:HE1	1.91	0.52
2:B:2623:LEU:HD21	2:B:2678:LEU:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4654:ALA:HB1	2:B:4796:MET:HE1	1.92	0.52
2:B:4976:GLU:O	2:B:4980:LEU:N	2.41	0.52
2:I:1935:VAL:HG12	2:I:1939:MET:HE1	1.92	0.52
2:I:2747:ILE:HG12	2:I:2814:LYS:HG3	1.92	0.52
2:I:2758:PHE:HD2	2:I:2809:ILE:HG12	1.75	0.52
2:I:3637:ARG:HH21	2:I:3640:PRO:HD3	1.75	0.52
2:I:4068:LEU:HD13	2:I:4111:LEU:HD13	1.92	0.52
2:I:4224:GLU:O	2:I:4230:LYS:HE2	2.09	0.52
2:A:289:ARG:HD2	2:A:301:VAL:HG23	1.91	0.51
2:A:4658:ILE:CG1	2:A:4792:LEU:HB3	2.40	0.51
2:G:213:TYR:HA	2:G:339:ILE:O	2.10	0.51
2:G:257:ARG:HA	2:G:286:THR:HG21	1.91	0.51
2:G:676:THR:HG22	2:G:677:ALA:N	2.23	0.51
2:G:4000:MET:SD	2:G:4001:MET:N	2.83	0.51
2:G:4674:GLU:OE2	2:G:4715:TYR:N	2.28	0.51
2:B:107:ILE:HG13	2:B:148:TRP:HB2	1.91	0.51
2:B:3637:ARG:HH21	2:B:3640:PRO:HD3	1.75	0.51
2:B:4221:VAL:HG23	2:B:4230:LYS:HZ3	1.76	0.51
2:B:4224:GLU:O	2:B:4230:LYS:HE2	2.09	0.51
2:I:3676:ASP:OD1	2:I:3677:LEU:N	2.42	0.51
2:I:3994:HIS:CD2	2:I:4054:ASN:HD21	2.28	0.51
2:I:4059:LEU:CD2	2:I:4167:ALA:HB2	2.40	0.51
1:F:56:ILE:HD12	1:F:81:ALA:HA	1.92	0.51
2:A:107:ILE:HG13	2:A:148:TRP:HB2	1.91	0.51
2:A:273:HIS:ND1	2:A:335:GLY:O	2.42	0.51
2:A:3994:HIS:CD2	2:A:4054:ASN:HD21	2.28	0.51
2:A:4054:ASN:HD22	2:A:4057:MET:HE2	1.75	0.51
2:A:4087:LEU:HD23	2:A:4122:MET:O	2.11	0.51
2:A:4578:LEU:CD1	2:B:4849:TYR:HE1	2.20	0.51
2:A:4863:TYR:HB2	2:A:4874:MET:HE3	1.92	0.51
2:G:515:TRP:CZ3	2:G:555:GLU:HG2	2.45	0.51
2:G:1259:ARG:HD2	2:G:1270:LEU:HD22	1.92	0.51
2:G:1265:ASP:OD1	2:G:1266:THR:N	2.39	0.51
2:G:4000:MET:HE1	2:G:4061:PHE:HB2	1.91	0.51
2:G:4658:ILE:CG1	2:G:4792:LEU:HB3	2.40	0.51
2:B:102:LEU:HB2	2:B:105:HIS:CD2	2.45	0.51
2:B:515:TRP:CZ3	2:B:555:GLU:HG2	2.45	0.51
2:B:3182:TYR:HA	2:B:3185:LYS:HD3	1.91	0.51
2:B:3719:ASP:H	2:B:3793:MET:CE	2.23	0.51
2:B:3994:HIS:CD2	2:B:4054:ASN:HD21	2.28	0.51
2:I:3669:PHE:HA	2:I:3672:ARG:HH21	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:102:LEU:HB2	2:A:105:HIS:CD2	2.45	0.51
2:A:1259:ARG:HD2	2:A:1270:LEU:HD22	1.92	0.51
2:A:2867:LEU:HD13	2:A:2927:LEU:HD23	1.93	0.51
2:A:3719:ASP:H	2:A:3793:MET:CE	2.23	0.51
2:A:3904:ARG:NH1	2:A:3975:GLY:HA3	2.26	0.51
2:A:5017:ARG:HD2	2:A:5019:TRP:HZ2	1.76	0.51
1:H:56:ILE:HD12	1:H:81:ALA:HA	1.92	0.51
2:G:1156:THR:OG1	2:G:1157:GLU:OE1	2.20	0.51
2:G:2868:SER:O	2:G:2872:GLN:N	2.36	0.51
2:G:4243:PHE:O	2:G:4247:ILE:HD12	2.10	0.51
2:B:210:GLU:OE1	2:B:210:GLU:N	2.43	0.51
2:B:1629:GLN:NE2	2:B:1631:GLN:OE1	2.41	0.51
2:B:3965:LEU:HB3	2:B:4026:MET:CE	2.37	0.51
2:I:2867:LEU:HD13	2:I:2927:LEU:HD23	1.93	0.51
2:I:3904:ARG:NH1	2:I:3975:GLY:HA3	2.26	0.51
2:A:2623:LEU:HD21	2:A:2678:LEU:HD11	1.92	0.51
2:A:3958:ALA:O	2:A:3961:VAL:HG12	2.10	0.51
2:G:813:GLU:OE1	2:G:1017:ARG:NH2	2.44	0.51
2:G:2466:LEU:O	2:G:2470:ILE:HG12	2.10	0.51
2:B:1561:VAL:HG23	2:B:1562:ILE:H	1.74	0.51
2:B:2758:PHE:HD2	2:B:2809:ILE:HG12	1.75	0.51
2:B:3148:ALA:HB2	2:B:3196:ARG:HH22	1.75	0.51
2:B:3445:TRP:HA	2:B:3451:PHE:HD1	1.76	0.51
2:B:3904:ARG:NH1	2:B:3975:GLY:HA3	2.26	0.51
2:B:4054:ASN:HD22	2:B:4057:MET:HE2	1.75	0.51
2:B:4068:LEU:HD13	2:B:4111:LEU:HD13	1.92	0.51
2:B:4676:GLU:HB3	2:B:4680:LYS:NZ	2.26	0.51
2:B:5017:ARG:HD2	2:B:5019:TRP:HZ2	1.76	0.51
2:I:213:TYR:HA	2:I:339:ILE:O	2.10	0.51
2:I:286:THR:HG23	2:I:287:THR:HG23	1.92	0.51
2:I:2012:PHE:CE2	2:I:2028:ARG:HB2	2.45	0.51
2:I:2992:GLU:HA	2:I:2995:ILE:HD12	1.92	0.51
2:I:3148:ALA:HB2	2:I:3196:ARG:HH22	1.75	0.51
2:I:3958:ALA:O	2:I:3961:VAL:HG12	2.10	0.51
2:I:4674:GLU:OE2	2:I:4715:TYR:N	2.28	0.51
2:A:2346:VAL:HG12	2:A:2349:ASN:H	1.76	0.51
2:A:2466:LEU:O	2:A:2470:ILE:HG12	2.10	0.51
2:A:2929:PHE:HA	2:A:2932:MET:HB2	1.91	0.51
2:A:3445:TRP:HA	2:A:3451:PHE:HD1	1.75	0.51
2:A:4142:ASN:OD1	2:A:4143:VAL:N	2.43	0.51
2:G:207:SER:H	2:G:334:MET:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2752:ASP:HA	2:G:2755:ILE:HD12	1.90	0.51
2:G:3904:ARG:NH1	2:G:3975:GLY:HA3	2.26	0.51
2:G:3994:HIS:CD2	2:G:4054:ASN:HD21	2.28	0.51
2:G:4087:LEU:HD23	2:G:4122:MET:O	2.11	0.51
2:G:4221:VAL:HG21	2:G:4959:PHE:HZ	1.76	0.51
2:G:4976:GLU:O	2:G:4980:LEU:N	2.41	0.51
2:G:5017:ARG:HD2	2:G:5019:TRP:HZ2	1.76	0.51
2:B:317:ARG:HG3	2:B:349:GLN:OE1	2.11	0.51
2:B:813:GLU:OE1	2:B:1017:ARG:NH2	2.44	0.51
2:B:2115:GLU:OE1	2:B:2115:GLU:N	2.38	0.51
2:B:3141:THR:HG22	2:B:3193:CYS:HA	1.92	0.51
2:B:3532:LEU:HD23	2:B:3535:LEU:HD12	1.91	0.51
2:B:4243:PHE:O	2:B:4247:ILE:HD12	2.10	0.51
2:B:4688:ILE:HD11	2:B:4737:ILE:HG21	1.92	0.51
2:A:1265:ASP:OD1	2:A:1266:THR:N	2.39	0.51
2:A:3198:ALA:HB2	2:A:3276:MET:HG3	1.91	0.51
2:A:3267:PRO:HB2	2:A:3270:ILE:HG12	1.92	0.51
2:A:3410:PRO:HD3	2:A:3509:LEU:HD13	1.93	0.51
2:A:4229:GLU:HG2	2:A:5019:TRP:HD1	1.75	0.51
2:G:102:LEU:HB2	2:G:105:HIS:CD2	2.45	0.51
2:G:2623:LEU:HD21	2:G:2678:LEU:HD11	1.92	0.51
2:G:2695:LEU:HA	2:G:2698:MET:HG3	1.93	0.51
2:G:4087:LEU:O	2:G:4122:MET:HE3	2.11	0.51
2:G:4654:ALA:HB1	2:G:4796:MET:HE1	1.93	0.51
2:B:1977:TYR:O	2:B:1981:MET:HG2	2.10	0.51
2:B:3137:LEU:HB3	2:B:3138:PRO:HD3	1.91	0.51
2:B:4000:MET:SD	2:B:4001:MET:N	2.83	0.51
2:I:862:VAL:O	2:I:864:PRO:HD3	2.10	0.51
2:I:1561:VAL:HG23	2:I:1562:ILE:H	1.74	0.51
2:I:3350:ARG:NH2	2:I:3353:LEU:HD21	2.24	0.51
2:A:266:ARG:NH2	2:A:330:ASP:HB3	2.26	0.51
2:A:286:THR:HG23	2:A:287:THR:HG23	1.92	0.51
2:A:317:ARG:HG3	2:A:349:GLN:OE1	2.11	0.51
2:A:1144:GLN:N	2:A:1147:ASP:OD2	2.43	0.51
2:A:1561:VAL:HG23	2:A:1562:ILE:H	1.74	0.51
2:A:2695:LEU:HA	2:A:2698:MET:HG3	1.93	0.51
2:A:2747:ILE:HG12	2:A:2814:LYS:HG3	1.92	0.51
2:A:2758:PHE:HD2	2:A:2809:ILE:HG12	1.75	0.51
2:A:2867:LEU:HD23	2:A:2867:LEU:H	1.76	0.51
2:A:2980:VAL:O	2:A:2984:GLY:N	2.43	0.51
2:A:4676:GLU:HB3	2:A:4680:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2259:GLU:HB3	2:G:2297:LYS:HZ1	1.76	0.51
2:G:2648:TYR:O	2:G:2652:TRP:N	2.44	0.51
2:G:3141:THR:HG22	2:G:3193:CYS:HA	1.92	0.51
2:G:3445:TRP:HA	2:G:3451:PHE:HD1	1.76	0.51
2:G:4229:GLU:HG2	2:G:5019:TRP:HD1	1.75	0.51
2:B:213:TYR:HA	2:B:339:ILE:O	2.10	0.51
2:B:286:THR:HG23	2:B:287:THR:HG23	1.92	0.51
2:B:1157:GLU:OE1	2:B:1157:GLU:N	2.44	0.51
2:B:2929:PHE:HA	2:B:2932:MET:HB2	1.91	0.51
2:I:210:GLU:OE1	2:I:210:GLU:N	2.43	0.51
2:I:317:ARG:HG3	2:I:349:GLN:OE1	2.11	0.51
2:I:1218:GLY:O	2:I:1223:PHE:HB2	2.11	0.51
2:I:1977:TYR:O	2:I:1981:MET:HG2	2.11	0.51
2:I:3445:TRP:HA	2:I:3451:PHE:HD1	1.75	0.51
2:I:4221:VAL:HG21	2:I:4959:PHE:HZ	1.76	0.51
2:A:515:TRP:CZ3	2:A:555:GLU:HG2	2.45	0.51
2:A:1000:ARG:HB2	2:A:1021:LEU:HD11	1.93	0.51
2:A:1218:GLY:O	2:A:1223:PHE:HB2	2.11	0.51
2:A:1935:VAL:HG12	2:A:1939:MET:HE1	1.92	0.51
2:A:4000:MET:HE1	2:A:4061:PHE:HB2	1.92	0.51
2:A:4059:LEU:CD2	2:A:4167:ALA:HB2	2.40	0.51
2:A:4094:GLN:NE2	2:A:4098:ASP:OD2	2.44	0.51
1:J:56:ILE:HD12	1:J:81:ALA:HA	1.92	0.51
2:G:4676:GLU:HB3	2:G:4680:LYS:NZ	2.26	0.51
2:G:4688:ILE:HD11	2:G:4737:ILE:HG21	1.92	0.51
2:B:1000:ARG:HB2	2:B:1021:LEU:HD11	1.93	0.51
2:B:1218:GLY:O	2:B:1223:PHE:HB2	2.11	0.51
2:B:1927:LEU:HD13	2:B:2101:MET:HG3	1.92	0.51
2:B:2026:ASP:N	2:B:2026:ASP:OD1	2.43	0.51
2:B:2239:PHE:CD2	2:B:2250:MET:HE2	2.38	0.51
2:B:2867:LEU:HD23	2:B:2867:LEU:H	1.76	0.51
2:B:4161:ARG:HB3	2:B:4165:GLU:OE2	2.11	0.51
2:B:4229:GLU:HG2	2:B:5019:TRP:HD1	1.75	0.51
2:I:152:PRO:HA	2:I:169:LEU:HA	1.93	0.51
2:I:652:ARG:HB3	2:I:750:LEU:HD13	1.92	0.51
2:I:2634:ASN:HD21	2:I:2636:PHE:HB2	1.75	0.51
2:I:4688:ILE:HD11	2:I:4737:ILE:HG21	1.92	0.51
2:A:103:TYR:CE1	2:A:163:VAL:HG12	2.46	0.51
2:A:3137:LEU:HB3	2:A:3138:PRO:HD3	1.91	0.51
2:G:266:ARG:NH2	2:G:330:ASP:HB3	2.26	0.51
2:G:652:ARG:HB3	2:G:750:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2346:VAL:HG12	2:B:2349:ASN:H	1.76	0.51
2:B:2687:ALA:HB1	2:B:2966:TRP:CZ2	2.46	0.51
2:B:2912:THR:HG23	2:B:2915:GLU:H	1.74	0.51
2:B:3050:VAL:HG23	2:B:3131:TYR:OH	2.10	0.51
2:I:1157:GLU:OE1	2:I:1157:GLU:N	2.44	0.51
2:A:155:LYS:O	2:A:158:SER:OG	2.29	0.51
2:A:215:THR:HG1	2:A:218:HIS:CE1	2.29	0.51
2:A:1076:ARG:HH22	2:A:1655:GLU:CD	2.15	0.51
1:O:31:GLN:HA	1:O:98:ILE:HD13	1.93	0.51
1:O:56:ILE:HD12	1:O:81:ALA:HA	1.92	0.51
2:G:317:ARG:HG3	2:G:349:GLN:OE1	2.11	0.51
2:G:3267:PRO:HB2	2:G:3270:ILE:HG12	1.92	0.51
2:G:4094:GLN:NE2	2:G:4098:ASP:OD2	2.44	0.51
2:B:2175:GLU:OE2	2:B:2227:LYS:NZ	2.42	0.51
2:B:2747:ILE:HG12	2:B:2814:LYS:HG3	1.92	0.51
2:B:4097:MET:HE1	2:B:4108:ILE:HA	1.93	0.51
2:I:1248:VAL:HG22	2:I:1599:MET:HE3	1.93	0.51
2:I:1927:LEU:HD13	2:I:2101:MET:HG3	1.92	0.51
2:I:1974:ARG:HB2	2:I:3642:TYR:CE2	2.46	0.51
2:I:2638:LYS:HZ1	2:I:2694:GLU:HB2	1.76	0.51
2:I:2792:ARG:HH21	2:I:2798:SER:H	1.59	0.51
2:I:2980:VAL:O	2:I:2984:GLY:N	2.43	0.51
2:I:3668:SER:O	2:I:3668:SER:OG	2.28	0.51
2:I:4161:ARG:HB3	2:I:4165:GLU:OE2	2.11	0.51
2:A:3323:ILE:HG23	2:A:3335:MET:HE1	1.92	0.50
2:A:3422:HIS:HA	2:A:3425:THR:HG22	1.93	0.50
1:J:31:GLN:HA	1:J:98:ILE:HD13	1.93	0.50
2:G:155:LYS:O	2:G:158:SER:OG	2.30	0.50
2:G:226:HIS:O	2:G:226:HIS:ND1	2.39	0.50
2:G:1000:ARG:HB2	2:G:1021:LEU:HD11	1.93	0.50
2:G:1928:GLN:OE1	2:G:1928:GLN:N	2.42	0.50
2:B:232:THR:HG21	2:B:252:VAL:HB	1.93	0.50
2:B:862:VAL:O	2:B:864:PRO:HD3	2.10	0.50
2:B:1076:ARG:HH22	2:B:1655:GLU:CD	2.14	0.50
2:B:1926:LEU:O	2:B:1929:MET:HG2	2.11	0.50
2:B:2634:ASN:HD21	2:B:2636:PHE:HB2	1.75	0.50
2:B:2980:VAL:O	2:B:2984:GLY:N	2.43	0.50
2:B:2992:GLU:HA	2:B:2995:ILE:HD12	1.92	0.50
2:I:1543:GLU:O	2:I:1546:THR:OG1	2.17	0.50
2:I:2716:ASP:HB2	2:I:2719:TYR:HD1	1.75	0.50
2:I:2862:LEU:HD21	2:I:2929:PHE:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4087:LEU:HD23	2:I:4122:MET:O	2.11	0.50
2:I:5017:ARG:HD2	2:I:5019:TRP:HZ2	1.76	0.50
2:A:152:PRO:HA	2:A:169:LEU:HA	1.93	0.50
2:A:1157:GLU:OE1	2:A:1157:GLU:N	2.44	0.50
1:H:31:GLN:HA	1:H:98:ILE:HD13	1.93	0.50
2:G:152:PRO:HA	2:G:169:LEU:HA	1.93	0.50
2:G:1974:ARG:HB2	2:G:3642:TYR:CE2	2.46	0.50
2:G:2300:SER:O	2:G:2301:TYR:HB2	2.12	0.50
2:G:2582:MET:HA	2:G:2585:THR:HG22	1.94	0.50
2:G:3422:HIS:HA	2:G:3425:THR:HG22	1.94	0.50
2:G:3958:ALA:O	2:G:3961:VAL:HG12	2.10	0.50
2:B:1144:GLN:N	2:B:1147:ASP:OD2	2.43	0.50
2:B:2012:PHE:CE2	2:B:2028:ARG:HB2	2.45	0.50
2:B:2582:MET:HA	2:B:2585:THR:HG22	1.94	0.50
2:B:2862:LEU:HD21	2:B:2929:PHE:HB2	1.94	0.50
2:B:3267:PRO:HB2	2:B:3270:ILE:CG1	2.41	0.50
2:B:3267:PRO:HB2	2:B:3270:ILE:HG12	1.92	0.50
2:B:3958:ALA:O	2:B:3961:VAL:HG12	2.10	0.50
2:B:4087:LEU:HD23	2:B:4122:MET:O	2.11	0.50
2:I:183:SER:HB2	2:I:190:GLN:HB2	1.93	0.50
2:I:813:GLU:OE1	2:I:1017:ARG:NH2	2.44	0.50
2:I:1000:ARG:HB2	2:I:1021:LEU:HD11	1.93	0.50
2:I:3410:PRO:HD3	2:I:3509:LEU:HD13	1.93	0.50
2:A:1926:LEU:O	2:A:1929:MET:HG2	2.12	0.50
2:A:1977:TYR:O	2:A:1981:MET:HG2	2.10	0.50
2:A:2648:TYR:O	2:A:2652:TRP:N	2.44	0.50
2:G:4068:LEU:HD13	2:G:4111:LEU:HD13	1.92	0.50
2:B:152:PRO:HA	2:B:169:LEU:HA	1.93	0.50
2:B:4059:LEU:CD2	2:B:4167:ALA:HB2	2.40	0.50
2:I:515:TRP:CZ3	2:I:555:GLU:HG2	2.45	0.50
2:I:2582:MET:O	2:I:2585:THR:HG22	2.11	0.50
2:I:3111:ARG:HH12	2:I:3175:LEU:HD13	1.76	0.50
2:I:3141:THR:HG22	2:I:3193:CYS:HA	1.92	0.50
2:I:3267:PRO:HB2	2:I:3270:ILE:CG1	2.41	0.50
2:A:232:THR:HG21	2:A:252:VAL:HB	1.93	0.50
2:A:650:VAL:HG21	2:A:662:TRP:CD1	2.47	0.50
2:A:828:GLU:OE2	2:A:828:GLU:N	2.44	0.50
2:A:1629:GLN:NE2	2:A:1631:GLN:OE1	2.41	0.50
2:A:2582:MET:HA	2:A:2585:THR:HG22	1.93	0.50
2:A:4054:ASN:O	2:A:4058:ILE:HG13	2.10	0.50
1:O:78:PRO:HA	1:O:81:ALA:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:210:GLU:OE1	2:G:210:GLU:N	2.43	0.50
2:G:232:THR:HG21	2:G:252:VAL:HB	1.93	0.50
2:G:959:TYR:CD2	2:G:960:MET:N	2.80	0.50
2:G:1144:GLN:N	2:G:1147:ASP:OD2	2.43	0.50
2:G:1248:VAL:HG22	2:G:1599:MET:HE3	1.94	0.50
2:G:1977:TYR:O	2:G:1981:MET:HG2	2.10	0.50
2:G:2031:LEU:HD11	2:G:3657:TYR:CE1	2.47	0.50
2:G:2346:VAL:HG12	2:G:2349:ASN:H	1.76	0.50
2:G:2867:LEU:HD13	2:G:2927:LEU:HD23	1.93	0.50
2:G:3564:GLU:OE1	2:G:3570:ARG:NH1	2.45	0.50
2:B:660:GLY:HA2	2:B:750:LEU:HD11	1.94	0.50
2:B:959:TYR:CD2	2:B:960:MET:N	2.80	0.50
2:B:2695:LEU:HA	2:B:2698:MET:HG3	1.93	0.50
2:B:3422:HIS:HA	2:B:3425:THR:HG22	1.94	0.50
2:B:3637:ARG:NH2	2:B:3640:PRO:HD3	2.27	0.50
2:I:232:THR:HG21	2:I:252:VAL:HB	1.94	0.50
2:I:2300:SER:O	2:I:2301:TYR:HB2	2.12	0.50
2:I:2623:LEU:HD21	2:I:2678:LEU:HD11	1.92	0.50
2:I:2648:TYR:O	2:I:2652:TRP:N	2.44	0.50
2:A:1008:SER:N	2:A:1018:ASN:O	2.45	0.50
2:A:1928:GLN:OE1	2:A:1928:GLN:N	2.42	0.50
2:A:2582:MET:O	2:A:2585:THR:HG22	2.12	0.50
2:A:2640:PRO:O	2:A:2643:LEU:CB	2.58	0.50
2:A:3416:VAL:HG22	2:A:3423:TRP:HZ3	1.77	0.50
2:A:4068:LEU:HD13	2:A:4111:LEU:HD13	1.92	0.50
2:A:4221:VAL:HG21	2:A:4959:PHE:HZ	1.76	0.50
1:H:78:PRO:HA	1:H:81:ALA:HB3	1.93	0.50
2:G:1183:GLU:OE1	2:G:1183:GLU:N	2.32	0.50
2:G:1543:GLU:O	2:G:1546:THR:OG1	2.17	0.50
2:G:1771:LEU:HG	2:G:2153:MET:HE1	1.93	0.50
2:G:4161:ARG:HB3	2:G:4165:GLU:OE2	2.11	0.50
2:B:103:TYR:CE1	2:B:163:VAL:HG12	2.46	0.50
2:B:183:SER:HB2	2:B:190:GLN:HB2	1.93	0.50
2:B:266:ARG:NH2	2:B:330:ASP:HB3	2.26	0.50
2:B:1155:LEU:HD22	2:B:1184:ILE:HG12	1.94	0.50
2:B:1974:ARG:HB2	2:B:3642:TYR:CE2	2.46	0.50
2:B:2300:SER:O	2:B:2301:TYR:HB2	2.12	0.50
2:B:2828:GLU:OE1	2:B:2828:GLU:N	2.43	0.50
2:B:3111:ARG:HH12	2:B:3175:LEU:HD13	1.76	0.50
2:B:3410:PRO:HD3	2:B:3509:LEU:HD13	1.93	0.50
2:B:3984:ARG:HG3	2:B:3984:ARG:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:103:TYR:CE1	2:I:163:VAL:HG12	2.46	0.50
2:I:233:ILE:O	2:I:257:ARG:NH1	2.41	0.50
2:I:660:GLY:HA2	2:I:750:LEU:HD11	1.94	0.50
2:I:880:GLU:OE2	2:I:910:PHE:HB3	2.12	0.50
2:I:1248:VAL:HG22	2:I:1599:MET:CE	2.42	0.50
2:I:2366:PRO:HA	2:I:2369:ARG:CZ	2.41	0.50
2:I:3422:HIS:HA	2:I:3425:THR:HG22	1.93	0.50
2:I:3965:LEU:HB3	2:I:4026:MET:CE	2.37	0.50
2:I:4654:ALA:HB1	2:I:4796:MET:HE1	1.92	0.50
2:A:356:TRP:N	2:A:379:HIS:O	2.45	0.50
2:A:652:ARG:HB3	2:A:750:LEU:HD13	1.92	0.50
2:A:813:GLU:OE1	2:A:1017:ARG:NH2	2.44	0.50
2:A:959:TYR:CD2	2:A:960:MET:N	2.80	0.50
2:A:1815:LEU:HG	2:A:1865:MET:SD	2.52	0.50
2:A:2031:LEU:HD11	2:A:3657:TYR:CE1	2.47	0.50
2:A:2578:MET:O	2:A:2581:SER:OG	2.22	0.50
2:A:2687:ALA:HB1	2:A:2966:TRP:CZ2	2.46	0.50
2:A:3637:ARG:NH2	2:A:3640:PRO:HD3	2.27	0.50
2:A:4914:VAL:HG11	2:G:4884:LEU:HD11	1.93	0.50
2:G:3633:VAL:HA	2:G:3636:PHE:HB2	1.93	0.50
2:B:880:GLU:OE2	2:B:910:PHE:HB3	2.12	0.50
2:B:2648:TYR:O	2:B:2652:TRP:N	2.44	0.50
2:I:4094:GLN:NE2	2:I:4098:ASP:OD2	2.44	0.50
2:A:1870:VAL:HG11	2:A:2091:PRO:HB2	1.94	0.50
2:A:2419:GLY:O	2:A:2423:MET:N	2.28	0.50
2:A:2828:GLU:OE1	2:A:2828:GLU:N	2.43	0.50
2:A:4221:VAL:HG23	2:A:4230:LYS:NZ	2.26	0.50
2:G:358:THR:HG21	2:G:382:GLY:HA3	1.94	0.50
2:G:1076:ARG:HH22	2:G:1655:GLU:CD	2.15	0.50
2:G:2336:ARG:O	2:G:2435:ARG:NH1	2.43	0.50
2:G:2582:MET:O	2:G:2585:THR:HG22	2.12	0.50
2:G:2687:ALA:HB1	2:G:2966:TRP:CZ2	2.46	0.50
2:G:2862:LEU:HD21	2:G:2929:PHE:HB2	1.94	0.50
2:G:2867:LEU:HD23	2:G:2867:LEU:H	1.76	0.50
2:G:2980:VAL:O	2:G:2984:GLY:N	2.43	0.50
2:G:3410:PRO:HD3	2:G:3509:LEU:HD13	1.93	0.50
2:B:358:THR:HG21	2:B:382:GLY:HA3	1.94	0.50
2:B:920:TYR:O	2:B:924:MET:HG3	2.12	0.50
2:B:1815:LEU:HG	2:B:1865:MET:SD	2.52	0.50
2:B:2792:ARG:HH21	2:B:2798:SER:H	1.59	0.50
2:B:2867:LEU:HD13	2:B:2927:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3019:SER:O	2:B:3036:LYS:NZ	2.42	0.50
2:B:4221:VAL:HG23	2:B:4230:LYS:NZ	2.26	0.50
2:I:266:ARG:NH2	2:I:330:ASP:HB3	2.26	0.50
2:I:1144:GLN:N	2:I:1147:ASP:OD2	2.43	0.50
2:I:2695:LEU:HA	2:I:2698:MET:HG3	1.93	0.50
2:I:2828:GLU:OE1	2:I:2828:GLU:N	2.43	0.50
1:F:31:GLN:HA	1:F:98:ILE:HD13	1.92	0.50
2:A:920:TYR:O	2:A:924:MET:HG3	2.12	0.50
2:A:1991:THR:O	2:A:1995:THR:HG23	2.12	0.50
2:A:2366:PRO:HA	2:A:2369:ARG:CZ	2.41	0.50
2:A:2862:LEU:HD21	2:A:2929:PHE:HB2	1.94	0.50
2:A:3103:ILE:HA	2:A:3106:MET:SD	2.52	0.50
2:G:103:TYR:CE1	2:G:163:VAL:HG12	2.46	0.50
2:G:872:GLU:OE2	2:G:872:GLU:N	2.36	0.50
2:G:2770:LYS:HE2	2:G:2791:LEU:HD11	1.94	0.50
2:G:4221:VAL:HG23	2:G:4230:LYS:NZ	2.26	0.50
2:B:36:CYS:SG	2:B:65:CYS:HB3	2.52	0.50
2:B:449:ILE:HG12	2:B:524:GLU:OE1	2.12	0.50
2:B:2716:ASP:HB2	2:B:2719:TYR:HD1	1.75	0.50
2:B:3354:LEU:HD11	2:B:3434:LEU:HD22	1.93	0.50
2:B:3416:VAL:HG22	2:B:3423:TRP:HZ3	1.77	0.50
2:B:4094:GLN:NE2	2:B:4098:ASP:OD2	2.44	0.50
2:I:920:TYR:O	2:I:924:MET:HG3	2.12	0.50
2:I:1076:ARG:HH22	2:I:1655:GLU:CD	2.14	0.50
2:I:1155:LEU:HD22	2:I:1184:ILE:HG12	1.94	0.50
2:I:2692:ASP:H	2:I:2696:TYR:HE2	1.60	0.50
2:I:2867:LEU:HD23	2:I:2867:LEU:H	1.76	0.50
2:I:3637:ARG:NH2	2:I:3640:PRO:HD3	2.27	0.50
2:A:2498:HIS:O	2:A:2501:SER:OG	2.28	0.50
2:G:1218:GLY:O	2:G:1223:PHE:HB2	2.11	0.50
2:G:1987:SER:OG	2:G:1990:GLU:HB2	2.12	0.50
2:G:2792:ARG:HH21	2:G:2798:SER:H	1.59	0.50
2:G:3354:LEU:HD11	2:G:3434:LEU:HD22	1.93	0.50
2:B:2582:MET:O	2:B:2585:THR:HG22	2.12	0.50
2:B:4221:VAL:HG21	2:B:4959:PHE:HZ	1.76	0.50
2:I:828:GLU:OE2	2:I:828:GLU:N	2.44	0.50
2:I:986:ASP:OD1	2:I:986:ASP:N	2.44	0.50
2:I:2346:VAL:HG12	2:I:2349:ASN:H	1.76	0.50
2:I:2770:LYS:HE2	2:I:2791:LEU:HD11	1.94	0.50
2:I:4676:GLU:HB3	2:I:4680:LYS:NZ	2.26	0.50
1:F:78:PRO:HA	1:F:81:ALA:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:449:ILE:HG12	2:A:524:GLU:OE1	2.12	0.49
2:A:2300:SER:O	2:A:2301:TYR:HB2	2.12	0.49
2:A:3354:LEU:O	2:A:3359:ILE:HG12	2.12	0.49
2:A:4813:LEU:O	2:A:4816:ILE:HG22	2.12	0.49
2:G:650:VAL:HG21	2:G:662:TRP:CD1	2.47	0.49
2:G:920:TYR:O	2:G:924:MET:HG3	2.12	0.49
2:G:1110:ARG:NH2	2:G:1112:ASP:OD2	2.45	0.49
2:G:1155:LEU:HD22	2:G:1184:ILE:HG12	1.94	0.49
2:G:1248:VAL:HG22	2:G:1599:MET:CE	2.42	0.49
2:G:1991:THR:O	2:G:1995:THR:HG23	2.12	0.49
2:G:2366:PRO:HA	2:G:2369:ARG:CZ	2.41	0.49
2:G:3267:PRO:HB2	2:G:3270:ILE:CG1	2.42	0.49
2:B:2366:PRO:HA	2:B:2369:ARG:CZ	2.41	0.49
2:B:4237:PHE:CE1	2:B:4668:LEU:HD11	2.47	0.49
2:B:4878:ASP:OD1	2:B:4879:MET:N	2.46	0.49
2:I:13:PHE:HA	2:I:163:VAL:O	2.12	0.49
2:I:1870:VAL:HG11	2:I:2091:PRO:HB2	1.94	0.49
2:I:2348:GLU:HG2	2:I:3849:ARG:HG3	1.94	0.49
2:I:2582:MET:HA	2:I:2585:THR:HG22	1.93	0.49
2:I:2916:LYS:HD2	2:I:2920:ARG:NH2	2.27	0.49
2:I:3984:ARG:HG3	2:I:3984:ARG:O	2.12	0.49
2:I:4221:VAL:HG23	2:I:4230:LYS:NZ	2.26	0.49
2:I:4830:VAL:HA	2:I:4936:ILE:HD12	1.94	0.49
2:A:650:VAL:HG11	2:A:662:TRP:CE2	2.47	0.49
2:A:981:GLN:O	2:A:985:VAL:HG23	2.12	0.49
2:A:3111:ARG:HH12	2:A:3175:LEU:HD13	1.76	0.49
2:A:3465:ASN:OD1	2:A:3468:SER:N	2.46	0.49
2:G:356:TRP:N	2:G:379:HIS:O	2.45	0.49
2:B:13:PHE:HA	2:B:163:VAL:O	2.12	0.49
2:B:870:ILE:HD11	2:B:1049:TYR:CE2	2.48	0.49
2:B:2770:LYS:HE2	2:B:2791:LEU:HD11	1.94	0.49
2:B:4813:LEU:O	2:B:4816:ILE:HG22	2.12	0.49
2:B:4830:VAL:HA	2:B:4936:ILE:HD12	1.94	0.49
2:I:3465:ASN:OD1	2:I:3468:SER:N	2.46	0.49
2:I:4237:PHE:CE1	2:I:4668:LEU:HD11	2.47	0.49
1:F:10:GLY:HA3	1:F:70:GLN:HB2	1.95	0.49
1:F:82:TYR:CE1	1:F:87:HIS:HB2	2.47	0.49
2:A:277:GLY:HA3	2:A:327:PRO:HD3	1.94	0.49
2:A:358:THR:HG21	2:A:382:GLY:HA3	1.94	0.49
2:A:875:ALA:HA	2:A:878:ILE:HG12	1.94	0.49
2:A:2792:ARG:HH21	2:A:2798:SER:H	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3354:LEU:HD11	2:A:3434:LEU:HD22	1.94	0.49
2:A:4161:ARG:HB3	2:A:4165:GLU:OE2	2.11	0.49
2:A:4878:ASP:OD1	2:A:4879:MET:N	2.45	0.49
1:H:82:TYR:CE1	1:H:87:HIS:HB2	2.47	0.49
1:J:78:PRO:HA	1:J:81:ALA:HB3	1.93	0.49
2:G:870:ILE:HD11	2:G:1049:TYR:CE2	2.47	0.49
2:G:986:ASP:OD1	2:G:986:ASP:N	2.44	0.49
2:G:1157:GLU:OE1	2:G:1157:GLU:N	2.44	0.49
2:G:1448:VAL:HG12	2:G:1554:VAL:HG23	1.94	0.49
2:G:3033:ASN:O	2:G:3037:GLU:HG2	2.12	0.49
2:G:3065:VAL:O	2:G:3068:LEU:HB2	2.13	0.49
2:G:3637:ARG:NH2	2:G:3640:PRO:HD3	2.27	0.49
2:G:4830:VAL:HA	2:G:4936:ILE:HD12	1.94	0.49
2:G:4878:ASP:OD1	2:G:4879:MET:N	2.45	0.49
2:B:986:ASP:OD1	2:B:986:ASP:N	2.44	0.49
2:B:1248:VAL:HG22	2:B:1599:MET:CE	2.42	0.49
2:B:1991:THR:O	2:B:1995:THR:HG23	2.12	0.49
2:B:2692:ASP:H	2:B:2696:TYR:HE2	1.60	0.49
2:B:2916:LYS:HD2	2:B:2920:ARG:NH2	2.27	0.49
2:B:3103:ILE:HA	2:B:3106:MET:SD	2.52	0.49
2:B:4888:TYR:CD1	2:I:4914:VAL:HG13	2.47	0.49
2:I:356:TRP:N	2:I:379:HIS:O	2.45	0.49
2:I:358:THR:HG21	2:I:382:GLY:HA3	1.94	0.49
2:I:1815:LEU:HG	2:I:1865:MET:SD	2.52	0.49
2:I:2031:LEU:HD11	2:I:3657:TYR:CE1	2.47	0.49
2:I:4054:ASN:HD22	2:I:4057:MET:HE2	1.75	0.49
2:I:4878:ASP:OD1	2:I:4879:MET:N	2.46	0.49
2:I:4983:HIS:CB	3:I:5301:ATP:HN62	2.12	0.49
1:F:54:GLU:H	1:F:54:GLU:CD	2.08	0.49
2:A:1155:LEU:HD22	2:A:1184:ILE:HG12	1.94	0.49
2:A:1987:SER:OG	2:A:1990:GLU:HB2	2.12	0.49
2:A:2175:GLU:OE2	2:A:2227:LYS:NZ	2.42	0.49
2:G:36:CYS:SG	2:G:65:CYS:HB3	2.52	0.49
2:G:449:ILE:HG12	2:G:524:GLU:OE1	2.12	0.49
2:G:660:GLY:HA2	2:G:750:LEU:HD11	1.94	0.49
2:G:2692:ASP:H	2:G:2696:TYR:HE2	1.60	0.49
2:G:3103:ILE:HA	2:G:3106:MET:SD	2.52	0.49
2:G:3354:LEU:O	2:G:3359:ILE:HG12	2.12	0.49
2:G:4054:ASN:HD22	2:G:4057:MET:HE2	1.77	0.49
2:G:4980:LEU:O	2:G:4984:ASN:ND2	2.46	0.49
2:B:2419:GLY:O	2:B:2423:MET:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:155:LYS:O	2:I:158:SER:OG	2.30	0.49
2:I:1110:ARG:NH2	2:I:1112:ASP:OD2	2.45	0.49
2:I:1980:LEU:HD13	2:I:1995:THR:HG22	1.95	0.49
2:I:3354:LEU:HD11	2:I:3434:LEU:HD22	1.94	0.49
2:I:3354:LEU:O	2:I:3359:ILE:HG12	2.12	0.49
2:I:3633:VAL:HA	2:I:3636:PHE:HB2	1.93	0.49
2:A:36:CYS:SG	2:A:65:CYS:HB3	2.52	0.49
2:A:927:GLU:HA	2:A:930:LYS:HD3	1.94	0.49
2:A:2328:GLY:O	2:A:2332:LEU:HG	2.13	0.49
2:A:2336:ARG:O	2:A:2435:ARG:NH1	2.43	0.49
2:A:2770:LYS:HE2	2:A:2791:LEU:HD11	1.94	0.49
2:A:3984:ARG:O	2:A:3984:ARG:HG3	2.12	0.49
2:G:183:SER:HB2	2:G:190:GLN:HB2	1.93	0.49
2:G:1926:LEU:O	2:G:1929:MET:HG2	2.12	0.49
2:G:3465:ASN:OD1	2:G:3468:SER:N	2.46	0.49
2:G:4675:LYS:HA	2:G:4715:TYR:CD2	2.48	0.49
2:B:356:TRP:N	2:B:379:HIS:O	2.45	0.49
2:B:4980:LEU:O	2:B:4984:ASN:ND2	2.46	0.49
2:B:5017:ARG:HD2	2:B:5019:TRP:CZ2	2.48	0.49
2:I:1987:SER:OG	2:I:1990:GLU:HB2	2.12	0.49
2:A:826:ILE:HG22	2:A:827:LYS:HG2	1.95	0.49
2:A:2026:ASP:OD1	2:A:2026:ASP:N	2.43	0.49
2:A:2692:ASP:H	2:A:2696:TYR:HE2	1.60	0.49
2:A:4227:GLU:O	2:A:4231:MET:HB2	2.13	0.49
2:A:4674:GLU:OE2	2:A:4715:TYR:N	2.28	0.49
2:G:826:ILE:HG22	2:G:827:LYS:HG2	1.95	0.49
2:G:4983:HIS:HB2	3:G:5301:ATP:N6	2.10	0.49
2:B:650:VAL:HG11	2:B:662:TRP:CE2	2.47	0.49
2:B:875:ALA:HA	2:B:878:ILE:HG12	1.94	0.49
2:B:1154:ASP:O	2:B:1158:ASN:N	2.46	0.49
2:B:3511:VAL:O	2:B:3515:LYS:HG2	2.13	0.49
2:I:1154:ASP:O	2:I:1158:ASN:N	2.46	0.49
2:I:2434:GLY:O	2:I:2508:ARG:NE	2.45	0.49
2:I:3103:ILE:HA	2:I:3106:MET:SD	2.52	0.49
2:I:3511:VAL:O	2:I:3515:LYS:HG2	2.13	0.49
2:I:4227:GLU:O	2:I:4231:MET:HB2	2.13	0.49
2:I:4813:LEU:O	2:I:4816:ILE:HG22	2.12	0.49
2:A:210:GLU:OE1	2:A:210:GLU:N	2.43	0.49
2:A:1110:ARG:NH2	2:A:1112:ASP:OD2	2.45	0.49
2:A:1448:VAL:HG12	2:A:1554:VAL:HG23	1.94	0.49
2:A:3033:ASN:O	2:A:3037:GLU:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3267:PRO:HB2	2:A:3270:ILE:CG1	2.41	0.49
2:A:3511:VAL:O	2:A:3515:LYS:HG2	2.13	0.49
2:A:4830:VAL:HA	2:A:4936:ILE:HD12	1.94	0.49
2:A:4976:GLU:O	2:A:4980:LEU:N	2.41	0.49
2:A:4980:LEU:O	2:A:4984:ASN:ND2	2.46	0.49
2:G:1297:PHE:CE2	2:G:1525:GLY:HA2	2.48	0.49
2:G:2755:ILE:HG22	2:G:2806:ARG:HG2	1.95	0.49
2:G:3111:ARG:HH12	2:G:3175:LEU:HD13	1.76	0.49
2:G:4227:GLU:O	2:G:4231:MET:HB2	2.13	0.49
2:B:650:VAL:HG21	2:B:662:TRP:CD1	2.47	0.49
2:B:1870:VAL:HG11	2:B:2091:PRO:HB2	1.94	0.49
2:B:3564:GLU:OE1	2:B:3570:ARG:NH1	2.45	0.49
2:I:449:ILE:HG12	2:I:524:GLU:OE1	2.12	0.49
2:I:3564:GLU:OE1	2:I:3570:ARG:NH1	2.45	0.49
2:I:4097:MET:HE1	2:I:4108:ILE:HA	1.95	0.49
2:I:4966:ASP:N	2:I:4966:ASP:OD1	2.46	0.49
2:A:13:PHE:HA	2:A:163:VAL:O	2.12	0.49
2:A:709:ASP:OD1	2:A:725:HIS:ND1	2.31	0.49
2:A:3242:ASP:OD1	2:A:3243:ILE:N	2.46	0.49
2:A:4237:PHE:CE1	2:A:4668:LEU:HD11	2.47	0.49
2:A:4242:ILE:O	2:A:4246:GLN:HG3	2.13	0.49
2:A:4675:LYS:HA	2:A:4715:TYR:CD2	2.48	0.49
2:G:1154:ASP:O	2:G:1158:ASN:N	2.46	0.49
2:G:2828:GLU:OE1	2:G:2828:GLU:N	2.43	0.49
2:G:4056:GLU:O	2:G:4060:LYS:HG2	2.13	0.49
2:G:4966:ASP:OD1	2:G:4966:ASP:N	2.46	0.49
2:G:5017:ARG:HD2	2:G:5019:TRP:CZ2	2.47	0.49
2:B:155:LYS:O	2:B:158:SER:OG	2.29	0.49
2:B:1248:VAL:HG21	2:B:1257:VAL:HG21	1.95	0.49
2:B:2328:GLY:O	2:B:2332:LEU:HG	2.13	0.49
2:B:4056:GLU:O	2:B:4060:LYS:HG2	2.13	0.49
2:B:4675:LYS:HA	2:B:4715:TYR:CD2	2.48	0.49
2:I:192:ASP:OD1	2:I:192:ASP:N	2.45	0.49
2:I:826:ILE:HG22	2:I:827:LYS:HG2	1.95	0.49
2:I:1248:VAL:HG21	2:I:1257:VAL:HG21	1.95	0.49
2:I:1820:ARG:O	2:I:1823:GLY:N	2.46	0.49
2:I:2336:ARG:O	2:I:2435:ARG:NH1	2.43	0.49
2:I:3033:ASN:O	2:I:3037:GLU:HG2	2.12	0.49
2:A:660:GLY:HA2	2:A:750:LEU:HD11	1.94	0.49
2:A:870:ILE:HD11	2:A:1049:TYR:CE2	2.48	0.49
2:A:1974:ARG:HB2	2:A:3642:TYR:CE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2309:SER:HA	2:A:2324:ASN:HB2	1.95	0.49
2:A:3227:ARG:NH2	2:A:3232:LEU:O	2.46	0.49
2:A:4056:GLU:O	2:A:4060:LYS:HG2	2.13	0.49
2:G:13:PHE:HA	2:G:163:VAL:O	2.12	0.49
2:G:1008:SER:N	2:G:1018:ASN:O	2.45	0.49
2:G:1820:ARG:O	2:G:1823:GLY:N	2.46	0.49
2:G:2026:ASP:N	2:G:2026:ASP:OD1	2.43	0.49
2:G:2175:GLU:OE2	2:G:2227:LYS:NZ	2.42	0.49
2:G:2348:GLU:HG2	2:G:3849:ARG:HG3	1.94	0.49
2:G:2626:LEU:O	2:G:2630:VAL:HG22	2.13	0.49
2:G:4237:PHE:CE1	2:G:4668:LEU:HD11	2.47	0.49
2:G:4813:LEU:O	2:G:4816:ILE:HG22	2.12	0.49
2:B:207:SER:H	2:B:334:MET:HE1	1.78	0.49
2:B:981:GLN:O	2:B:985:VAL:HG23	2.12	0.49
2:B:1110:ARG:NH2	2:B:1112:ASP:OD2	2.45	0.49
2:B:1820:ARG:O	2:B:1823:GLY:N	2.46	0.49
2:B:3233:PRO:HG2	2:B:3239:MET:HB2	1.94	0.49
2:B:3354:LEU:O	2:B:3359:ILE:HG12	2.12	0.49
2:B:3432:GLU:OE2	2:B:3436:ARG:NH2	2.46	0.49
2:I:232:THR:OG1	2:I:248:GLU:OE2	2.30	0.49
2:I:277:GLY:HA3	2:I:327:PRO:HD3	1.94	0.49
2:I:870:ILE:HD11	2:I:1049:TYR:CE2	2.48	0.49
2:I:1156:THR:OG1	2:I:1157:GLU:OE1	2.20	0.49
2:I:1547:LYS:NZ	2:I:1642:PRO:O	2.46	0.49
2:I:2309:SER:HA	2:I:2324:ASN:HB2	1.95	0.49
2:I:2620:GLN:O	2:I:2624:ARG:N	2.37	0.49
2:I:2687:ALA:HB1	2:I:2966:TRP:CZ2	2.46	0.49
2:I:4021:LYS:HG3	2:I:4142:ASN:ND2	2.28	0.49
2:I:4980:LEU:O	2:I:4984:ASN:ND2	2.46	0.49
2:A:2348:GLU:HG2	2:A:3849:ARG:HG3	1.94	0.49
2:A:2755:ILE:HG22	2:A:2806:ARG:HG2	1.95	0.49
2:A:3065:VAL:O	2:A:3068:LEU:HB2	2.13	0.49
2:A:3633:VAL:HA	2:A:3636:PHE:HB2	1.93	0.49
2:A:4214:LYS:HD3	2:A:4234:PHE:HZ	1.78	0.49
2:A:5017:ARG:HD2	2:A:5019:TRP:CZ2	2.48	0.49
2:G:875:ALA:HA	2:G:878:ILE:HG12	1.94	0.49
2:G:2954:ARG:O	2:G:2957:PHE:HB3	2.13	0.49
2:G:3984:ARG:HG3	2:G:3984:ARG:O	2.12	0.49
2:B:206:CYS:SG	2:B:207:SER:N	2.86	0.49
2:B:2792:ARG:HE	2:B:2797:PHE:HA	1.77	0.49
2:B:3227:ARG:NH2	2:B:3232:LEU:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4674:GLU:OE2	2:B:4715:TYR:N	2.28	0.49
2:B:4892:ARG:NH1	2:I:4895:GLY:O	2.41	0.49
2:I:36:CYS:SG	2:I:65:CYS:HB3	2.52	0.49
2:I:1926:LEU:O	2:I:1929:MET:HG2	2.11	0.49
2:I:1991:THR:O	2:I:1995:THR:HG23	2.12	0.49
2:I:2438:PRO:HG2	2:I:2443:ILE:HD11	1.94	0.49
2:I:2954:ARG:O	2:I:2957:PHE:HB3	2.13	0.49
2:I:3190:LEU:HD21	2:I:3272:ILE:HG23	1.95	0.49
2:I:3233:PRO:HG2	2:I:3239:MET:HB2	1.95	0.49
2:I:4960:ILE:HD11	2:I:4985:LEU:HD23	1.94	0.49
2:A:1561:VAL:HG23	2:A:1562:ILE:N	2.29	0.48
2:A:2384:ILE:HA	2:A:2494:PHE:CE1	2.48	0.48
2:A:2767:ALA:O	2:A:2771:ILE:HG12	2.13	0.48
2:A:4021:LYS:HG3	2:A:4142:ASN:ND2	2.28	0.48
2:G:1980:LEU:HD13	2:G:1995:THR:HG22	1.95	0.48
2:G:2640:PRO:O	2:G:2643:LEU:CB	2.58	0.48
2:G:4960:ILE:HD11	2:G:4985:LEU:HD23	1.94	0.48
2:B:1827:ARG:O	2:B:1829:PRO:HD3	2.13	0.48
2:B:2031:LEU:HD11	2:B:3657:TYR:CE1	2.47	0.48
2:B:2384:ILE:HA	2:B:2494:PHE:CE1	2.48	0.48
2:B:2434:GLY:O	2:B:2508:ARG:NE	2.45	0.48
2:B:3465:ASN:OD1	2:B:3468:SER:N	2.46	0.48
2:I:650:VAL:HG21	2:I:662:TRP:CD1	2.47	0.48
2:I:650:VAL:HG11	2:I:662:TRP:CE2	2.47	0.48
2:I:1008:SER:N	2:I:1018:ASN:O	2.45	0.48
2:I:2153:MET:HA	2:I:2153:MET:HE2	1.95	0.48
2:I:2498:HIS:O	2:I:2501:SER:OG	2.28	0.48
2:A:1156:THR:OG1	2:A:1157:GLU:OE1	2.20	0.48
2:A:2500:ALA:HB2	2:A:2553:TYR:HD1	1.78	0.48
2:A:3053:ARG:CG	2:A:3056:LEU:HD21	2.43	0.48
2:A:3180:ASN:O	2:A:3183:VAL:HG22	2.13	0.48
2:A:3528:THR:OG1	2:A:3561:GLY:N	2.46	0.48
2:A:4849:TYR:CE1	2:G:4578:LEU:HD13	2.46	0.48
2:A:4966:ASP:OD1	2:A:4966:ASP:N	2.46	0.48
1:O:82:TYR:CE1	1:O:87:HIS:HB2	2.47	0.48
2:G:650:VAL:HG11	2:G:662:TRP:CE2	2.47	0.48
2:G:2767:ALA:O	2:G:2771:ILE:HG12	2.13	0.48
2:G:2916:LYS:HD2	2:G:2920:ARG:NH2	2.27	0.48
2:G:3511:VAL:O	2:G:3515:LYS:HG2	2.13	0.48
2:G:3528:THR:OG1	2:G:3561:GLY:N	2.46	0.48
2:B:927:GLU:HA	2:B:930:LYS:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1987:SER:OG	2:B:1990:GLU:HB2	2.12	0.48
2:B:2626:LEU:O	2:B:2630:VAL:HG22	2.13	0.48
2:B:3077:ALA:HB3	2:B:3156:VAL:HG12	1.95	0.48
2:B:3242:ASP:OD1	2:B:3243:ILE:N	2.46	0.48
2:I:875:ALA:HA	2:I:878:ILE:HG12	1.94	0.48
2:I:1131:ARG:HB3	2:I:1139:PHE:CD1	2.48	0.48
2:I:1448:VAL:HG12	2:I:1554:VAL:HG23	1.94	0.48
2:I:2687:ALA:HB1	2:I:2966:TRP:CH2	2.48	0.48
2:I:2755:ILE:HG22	2:I:2806:ARG:HG2	1.95	0.48
2:I:3065:VAL:O	2:I:3068:LEU:HB2	2.13	0.48
2:I:3242:ASP:OD1	2:I:3243:ILE:N	2.46	0.48
2:I:5017:ARG:HD2	2:I:5019:TRP:CZ2	2.48	0.48
2:A:183:SER:HB2	2:A:190:GLN:HB2	1.93	0.48
2:A:206:CYS:SG	2:A:207:SER:N	2.86	0.48
2:A:1255:TYR:CD1	2:A:1287:LEU:HD22	2.49	0.48
2:A:2626:LEU:O	2:A:2630:VAL:HG22	2.13	0.48
2:A:2954:ARG:O	2:A:2957:PHE:HB3	2.13	0.48
2:A:4222:VAL:HG21	2:A:4950:VAL:HG13	1.95	0.48
2:G:880:GLU:OE2	2:G:910:PHE:HB3	2.12	0.48
2:G:927:GLU:HA	2:G:930:LYS:HD3	1.94	0.48
2:G:2384:ILE:HA	2:G:2494:PHE:CE1	2.48	0.48
2:G:2434:GLY:O	2:G:2508:ARG:NE	2.45	0.48
2:G:2736:ASP:OD2	2:G:2738:ARG:NH2	2.46	0.48
2:G:3227:ARG:NH2	2:G:3232:LEU:O	2.46	0.48
2:G:3242:ASP:OD1	2:G:3243:ILE:N	2.46	0.48
2:G:3316:LEU:HD13	2:G:3345:ILE:HG23	1.96	0.48
2:G:3943:ILE:HG23	2:G:3948:LYS:HG3	1.96	0.48
2:G:4021:LYS:HG3	2:G:4142:ASN:ND2	2.28	0.48
2:B:2954:ARG:O	2:B:2957:PHE:HB3	2.13	0.48
2:B:3033:ASN:O	2:B:3037:GLU:HG2	2.12	0.48
2:B:3172:ILE:HG21	2:B:3194:LEU:HD13	1.95	0.48
2:B:4021:LYS:HG3	2:B:4142:ASN:ND2	2.28	0.48
2:I:2792:ARG:HE	2:I:2797:PHE:HA	1.77	0.48
2:I:3009:TYR:HD2	2:I:3010:PHE:CD1	2.32	0.48
2:I:3528:THR:OG1	2:I:3561:GLY:N	2.46	0.48
2:I:3943:ILE:HG23	2:I:3948:LYS:HG3	1.95	0.48
2:I:4222:VAL:HG21	2:I:4950:VAL:HG13	1.95	0.48
2:I:4675:LYS:HA	2:I:4715:TYR:CD2	2.48	0.48
2:A:1297:PHE:CE2	2:A:1525:GLY:HA2	2.48	0.48
2:A:1827:ARG:O	2:A:1829:PRO:HD3	2.13	0.48
2:A:2916:LYS:HD2	2:A:2920:ARG:HH21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2916:LYS:HD2	2:A:2920:ARG:NH2	2.27	0.48
2:A:3077:ALA:HB3	2:A:3156:VAL:HG12	1.95	0.48
2:A:3172:ILE:HG21	2:A:3194:LEU:HD13	1.95	0.48
2:A:3334:TRP:O	2:A:3338:LEU:HB2	2.14	0.48
1:O:10:GLY:HA3	1:O:70:GLN:HB2	1.94	0.48
2:G:1547:LYS:NZ	2:G:1642:PRO:O	2.46	0.48
2:G:1815:LEU:HG	2:G:1865:MET:SD	2.52	0.48
2:G:3416:VAL:HG22	2:G:3423:TRP:HZ3	1.77	0.48
2:G:4183:ILE:HD11	2:G:5021:PHE:HB2	1.96	0.48
2:B:826:ILE:HG22	2:B:827:LYS:HG2	1.95	0.48
2:B:1547:LYS:NZ	2:B:1642:PRO:O	2.46	0.48
2:B:3053:ARG:CG	2:B:3056:LEU:HD21	2.43	0.48
2:B:3180:ASN:O	2:B:3183:VAL:HG22	2.13	0.48
2:B:3528:THR:OG1	2:B:3561:GLY:N	2.46	0.48
2:B:3633:VAL:HA	2:B:3636:PHE:HB2	1.93	0.48
2:B:4960:ILE:HD11	2:B:4985:LEU:HD23	1.94	0.48
2:I:2635:GLU:OE1	2:I:2635:GLU:N	2.32	0.48
2:I:2977:LEU:O	2:I:2981:VAL:HG23	2.14	0.48
2:I:4058:ILE:HA	2:I:4061:PHE:CE1	2.48	0.48
2:A:880:GLU:OE2	2:A:910:PHE:HB3	2.12	0.48
2:A:1131:ARG:HB3	2:A:1139:PHE:CD1	2.48	0.48
2:A:2005:GLN:O	2:A:2009:LEU:HD23	2.13	0.48
2:A:2259:GLU:HB3	2:A:2297:LYS:HZ1	1.79	0.48
2:A:2693:GLN:N	2:A:2996:LYS:HZ1	2.10	0.48
2:A:3269:VAL:O	2:A:3272:ILE:N	2.47	0.48
2:A:3432:GLU:OE2	2:A:3436:ARG:NH2	2.46	0.48
2:A:3845:ASN:HA	2:A:3848:GLU:OE1	2.14	0.48
2:A:4686:LEU:HG	2:A:4687:TYR:CD2	2.49	0.48
1:J:82:TYR:CE1	1:J:87:HIS:HB2	2.47	0.48
2:G:277:GLY:HA3	2:G:327:PRO:HD3	1.94	0.48
2:G:2438:PRO:HG2	2:G:2443:ILE:HD11	1.94	0.48
2:G:3190:LEU:HD21	2:G:3272:ILE:HG23	1.95	0.48
2:G:3334:TRP:O	2:G:3338:LEU:HB2	2.13	0.48
2:G:4242:ILE:O	2:G:4246:GLN:HG3	2.13	0.48
2:G:4904:PRO:HB3	2:G:4913:ARG:HD2	1.96	0.48
2:B:1297:PHE:CE2	2:B:1525:GLY:HA2	2.48	0.48
2:B:1561:VAL:HG23	2:B:1562:ILE:N	2.29	0.48
2:B:2640:PRO:O	2:B:2643:LEU:CB	2.58	0.48
2:B:2687:ALA:HB1	2:B:2966:TRP:CH2	2.48	0.48
2:B:3009:TYR:HD2	2:B:3010:PHE:CD1	2.32	0.48
2:B:3363:GLY:O	2:B:3367:LYS:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4738:ALA:O	2:B:4743:MET:HB2	2.14	0.48
2:I:2463:LEU:HA	2:I:2510:TYR:CE2	2.49	0.48
2:I:3432:GLU:OE2	2:I:3436:ARG:NH2	2.46	0.48
2:I:4056:GLU:O	2:I:4060:LYS:HG2	2.13	0.48
2:A:103:TYR:CD1	2:A:163:VAL:HG12	2.49	0.48
2:A:1820:ARG:O	2:A:1823:GLY:N	2.46	0.48
2:A:2463:LEU:HA	2:A:2510:TYR:CE2	2.49	0.48
2:A:2736:ASP:OD2	2:A:2738:ARG:NH2	2.46	0.48
2:A:2776:SER:OG	2:A:2777:TYR:N	2.47	0.48
2:A:3984:ARG:NH1	2:A:3986:TRP:HB2	2.29	0.48
1:J:10:GLY:HA3	1:J:70:GLN:HB2	1.95	0.48
2:G:1248:VAL:HG21	2:G:1257:VAL:HG21	1.95	0.48
2:G:1255:TYR:CD1	2:G:1287:LEU:HD22	2.48	0.48
2:G:2498:HIS:O	2:G:2501:SER:OG	2.28	0.48
2:G:2792:ARG:HE	2:G:2797:PHE:HA	1.77	0.48
2:G:2967:MET:CE	2:G:3045:LYS:HB3	2.43	0.48
2:G:3363:GLY:O	2:G:3367:LYS:HG2	2.14	0.48
2:B:103:TYR:CD1	2:B:163:VAL:HG12	2.49	0.48
2:B:1008:SER:N	2:B:1018:ASN:O	2.45	0.48
2:B:2755:ILE:HG22	2:B:2806:ARG:HG2	1.95	0.48
2:B:2967:MET:CE	2:B:3045:LYS:HB3	2.43	0.48
2:B:3269:VAL:O	2:B:3272:ILE:N	2.47	0.48
2:I:959:TYR:CD2	2:I:960:MET:N	2.80	0.48
2:I:981:GLN:O	2:I:985:VAL:HG23	2.12	0.48
2:I:3156:VAL:HG23	2:I:3157:ILE:HD12	1.96	0.48
2:I:3172:ILE:HG21	2:I:3194:LEU:HD13	1.95	0.48
2:I:4088:ILE:HG23	2:I:4093:PHE:HB2	1.95	0.48
2:I:4183:ILE:HD11	2:I:5021:PHE:HB2	1.96	0.48
2:I:4686:LEU:HG	2:I:4687:TYR:CD2	2.49	0.48
2:A:1248:VAL:HG22	2:A:1599:MET:CE	2.42	0.48
2:A:4960:ILE:HD11	2:A:4985:LEU:HD23	1.94	0.48
1:H:10:GLY:HA3	1:H:70:GLN:HB2	1.95	0.48
2:G:981:GLN:O	2:G:985:VAL:HG23	2.12	0.48
2:G:1720:LEU:HD22	2:G:1851:MET:SD	2.54	0.48
2:G:2463:LEU:HA	2:G:2510:TYR:CE2	2.49	0.48
2:G:3172:ILE:HG21	2:G:3194:LEU:HD13	1.95	0.48
2:B:2005:GLN:O	2:B:2009:LEU:HD23	2.13	0.48
2:B:2277:ALA:HB1	2:B:2337:PHE:HD2	1.79	0.48
2:B:4214:LYS:HD3	2:B:4234:PHE:HZ	1.78	0.48
2:B:4217:PHE:CZ	2:B:4234:PHE:HB2	2.49	0.48
2:I:1297:PHE:CE2	2:I:1525:GLY:HA2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1561:VAL:HG23	2:I:1562:ILE:N	2.28	0.48
2:I:1827:ARG:O	2:I:1829:PRO:HD3	2.13	0.48
2:I:2578:MET:O	2:I:2581:SER:OG	2.22	0.48
2:I:2626:LEU:O	2:I:2630:VAL:HG22	2.13	0.48
2:I:3132:THR:HG23	2:I:3136:LEU:HD13	1.96	0.48
2:I:3227:ARG:NH2	2:I:3232:LEU:O	2.46	0.48
2:I:4018:ASP:OD1	2:I:4019:LEU:N	2.47	0.48
2:I:4217:PHE:CZ	2:I:4234:PHE:HB2	2.49	0.48
2:A:1154:ASP:O	2:A:1158:ASN:N	2.46	0.48
2:A:1248:VAL:HG21	2:A:1257:VAL:HG21	1.95	0.48
2:A:1821:ASP:OD1	2:A:1822:GLY:N	2.47	0.48
2:A:2792:ARG:HE	2:A:2797:PHE:HA	1.77	0.48
2:A:3233:PRO:HG2	2:A:3239:MET:HB2	1.94	0.48
2:A:3363:GLY:O	2:A:3367:LYS:HG2	2.14	0.48
2:A:3564:GLU:OE1	2:A:3570:ARG:NH1	2.45	0.48
2:A:4018:ASP:OD1	2:A:4019:LEU:N	2.47	0.48
2:A:4058:ILE:HA	2:A:4061:PHE:CE1	2.49	0.48
2:A:4217:PHE:CZ	2:A:4234:PHE:HB2	2.49	0.48
2:G:543:ASN:O	2:G:546:TRP:HB3	2.14	0.48
2:G:1827:ARG:O	2:G:1829:PRO:HD3	2.13	0.48
2:G:2328:GLY:O	2:G:2332:LEU:HG	2.13	0.48
2:G:2977:LEU:O	2:G:2981:VAL:HG23	2.14	0.48
2:G:3009:TYR:HD2	2:G:3010:PHE:CD1	2.32	0.48
2:G:3132:THR:HG23	2:G:3136:LEU:HD13	1.96	0.48
2:G:3352:GLU:OE1	2:G:3352:GLU:N	2.41	0.48
2:G:4018:ASP:OD1	2:G:4019:LEU:N	2.47	0.48
2:B:232:THR:OG1	2:B:248:GLU:OE2	2.30	0.48
2:B:472:ARG:NH2	2:B:532:GLY:HA3	2.29	0.48
2:B:1255:TYR:CD1	2:B:1287:LEU:HD22	2.49	0.48
2:B:1980:LEU:HD13	2:B:1995:THR:HG22	1.95	0.48
2:B:2438:PRO:HG2	2:B:2443:ILE:HD11	1.94	0.48
2:B:2500:ALA:HB2	2:B:2553:TYR:HD1	1.79	0.48
2:B:2767:ALA:O	2:B:2771:ILE:HG12	2.13	0.48
2:B:3943:ILE:HG23	2:B:3948:LYS:HG3	1.96	0.48
2:B:4222:VAL:HG21	2:B:4950:VAL:HG13	1.95	0.48
2:B:4686:LEU:HG	2:B:4687:TYR:CD2	2.49	0.48
2:I:1182:ILE:HG13	2:I:1182:ILE:O	2.14	0.48
2:I:2277:ALA:HB1	2:I:2337:PHE:HD2	1.79	0.48
2:I:4904:PRO:HB3	2:I:4913:ARG:HD2	1.96	0.48
2:A:1182:ILE:HG13	2:A:1182:ILE:O	2.14	0.48
2:A:4675:LYS:HA	2:A:4715:TYR:HD2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1870:VAL:HG11	2:G:2091:PRO:HB2	1.94	0.48
2:G:2340:PHE:HB2	2:G:2435:ARG:HB3	1.96	0.48
2:G:2419:GLY:O	2:G:2423:MET:N	2.28	0.48
2:G:3053:ARG:CG	2:G:3056:LEU:HD21	2.44	0.48
2:G:3233:PRO:HG2	2:G:3239:MET:HB2	1.94	0.48
2:G:4217:PHE:CZ	2:G:4234:PHE:HB2	2.49	0.48
2:G:4895:GLY:O	2:I:4892:ARG:NH1	2.43	0.48
2:B:1131:ARG:HB3	2:B:1139:PHE:CD1	2.48	0.48
2:B:1448:VAL:HG12	2:B:1554:VAL:HG23	1.94	0.48
2:B:2463:LEU:HA	2:B:2510:TYR:CE2	2.49	0.48
2:B:3065:VAL:O	2:B:3068:LEU:HB2	2.13	0.48
2:B:4675:LYS:HA	2:B:4715:TYR:HD2	1.79	0.48
2:I:1272:LEU:HD22	2:I:1289:LEU:HD11	1.96	0.48
2:I:2384:ILE:HA	2:I:2494:PHE:CE1	2.48	0.48
2:I:2736:ASP:OD2	2:I:2738:ARG:NH2	2.47	0.48
2:I:3334:TRP:O	2:I:3338:LEU:HB2	2.14	0.48
2:I:3363:GLY:O	2:I:3367:LYS:HG2	2.14	0.48
2:I:3845:ASN:HA	2:I:3848:GLU:OE1	2.14	0.48
2:I:3873:LYS:HD2	2:I:3953:LYS:HE3	1.96	0.48
2:I:4738:ALA:O	2:I:4743:MET:HB2	2.14	0.48
2:A:1053:ILE:HD12	2:A:1053:ILE:H	1.79	0.48
2:A:3215:ALA:O	2:A:3221:THR:OG1	2.20	0.48
2:A:3943:ILE:HG23	2:A:3948:LYS:HG3	1.95	0.48
2:G:1053:ILE:HD12	2:G:1053:ILE:H	1.79	0.48
2:G:1821:ASP:OD1	2:G:1822:GLY:N	2.47	0.48
2:G:2500:ALA:HB2	2:G:2553:TYR:HD1	1.78	0.48
2:G:3156:VAL:HG23	2:G:3157:ILE:HD12	1.96	0.48
2:G:3180:ASN:O	2:G:3183:VAL:HG22	2.13	0.48
2:G:3215:ALA:O	2:G:3221:THR:OG1	2.20	0.48
2:G:4157:ASP:HB3	2:G:4160:LEU:HD12	1.95	0.48
2:B:277:GLY:HA3	2:B:327:PRO:HD3	1.94	0.48
2:B:990:GLU:HG2	2:B:1024:TYR:CG	2.49	0.48
2:B:1272:LEU:HD22	2:B:1289:LEU:HD11	1.96	0.48
2:B:2647:HIS:O	2:B:2651:CYS:N	2.34	0.48
2:B:2916:LYS:HD2	2:B:2920:ARG:HH21	1.78	0.48
2:B:2977:LEU:O	2:B:2981:VAL:HG23	2.14	0.48
2:B:3358:PHE:CE2	2:B:3412:LEU:HD13	2.49	0.48
2:B:4018:ASP:OD1	2:B:4019:LEU:N	2.47	0.48
2:B:4227:GLU:O	2:B:4231:MET:HB2	2.13	0.48
2:B:4904:PRO:HB3	2:B:4913:ARG:HD2	1.96	0.48
2:I:103:TYR:CD1	2:I:163:VAL:HG12	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:206:CYS:SG	2:I:207:SER:N	2.86	0.48
2:I:214:VAL:HG22	2:I:341:TYR:CE2	2.49	0.48
2:I:990:GLU:HG2	2:I:1024:TYR:CG	2.49	0.48
2:I:1821:ASP:OD1	2:I:1822:GLY:N	2.47	0.48
2:I:2500:ALA:HB2	2:I:2553:TYR:HD1	1.79	0.48
2:I:2640:PRO:O	2:I:2643:LEU:CB	2.58	0.48
2:I:2767:ALA:O	2:I:2771:ILE:HG12	2.13	0.48
2:I:3358:PHE:CE2	2:I:3412:LEU:HD13	2.49	0.48
2:I:3416:VAL:HG22	2:I:3423:TRP:HZ3	1.77	0.48
2:I:4675:LYS:HA	2:I:4715:TYR:HD2	1.79	0.48
2:A:1132:TRP:CZ2	2:A:1136:SER:HB3	2.49	0.47
2:A:1547:LYS:NZ	2:A:1642:PRO:O	2.46	0.47
2:A:1980:LEU:HD13	2:A:1995:THR:HG22	1.95	0.47
2:A:3009:TYR:HD2	2:A:3010:PHE:CD1	2.32	0.47
2:A:4904:PRO:HB3	2:A:4913:ARG:HD2	1.96	0.47
2:G:103:TYR:CD1	2:G:163:VAL:HG12	2.49	0.47
2:G:1733:GLU:HG2	2:G:2201:LEU:HD23	1.96	0.47
2:G:2005:GLN:O	2:G:2009:LEU:HD23	2.13	0.47
2:G:3432:GLU:OE2	2:G:3436:ARG:NH2	2.46	0.47
2:G:4686:LEU:HG	2:G:4687:TYR:CD2	2.49	0.47
2:B:1720:LEU:HD22	2:B:1851:MET:SD	2.54	0.47
2:B:3334:TRP:O	2:B:3338:LEU:HB2	2.14	0.47
2:B:3845:ASN:HA	2:B:3848:GLU:OE1	2.14	0.47
2:B:4058:ILE:HA	2:B:4061:PHE:CE1	2.49	0.47
2:B:4966:ASP:OD1	2:B:4966:ASP:N	2.46	0.47
2:I:927:GLU:HA	2:I:930:LYS:HD3	1.94	0.47
2:I:1255:TYR:CD1	2:I:1287:LEU:HD22	2.48	0.47
2:I:2328:GLY:O	2:I:2332:LEU:HG	2.13	0.47
2:I:3316:LEU:HD13	2:I:3345:ILE:HG23	1.96	0.47
2:I:3533:ILE:HG12	2:I:3596:VAL:HG23	1.96	0.47
2:A:309:THR:O	2:A:313:SER:OG	2.29	0.47
2:A:2340:PHE:HB2	2:A:2435:ARG:HB3	1.96	0.47
2:A:2967:MET:CE	2:A:3045:LYS:HB3	2.43	0.47
2:A:3316:LEU:HD13	2:A:3345:ILE:HG23	1.96	0.47
2:A:4183:ILE:HD11	2:A:5021:PHE:HB2	1.96	0.47
2:A:4221:VAL:HG23	2:A:4230:LYS:HZ3	1.78	0.47
1:O:54:GLU:H	1:O:54:GLU:CD	2.08	0.47
2:G:192:ASP:OD1	2:G:192:ASP:N	2.45	0.47
2:G:1272:LEU:HD22	2:G:1289:LEU:HD11	1.96	0.47
2:G:1561:VAL:HG23	2:G:1562:ILE:N	2.29	0.47
2:G:3845:ASN:HA	2:G:3848:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4235:VAL:HG12	2:G:4992:LEU:HD13	1.97	0.47
2:G:4738:ALA:O	2:G:4743:MET:HB2	2.14	0.47
2:B:457:GLU:OE2	2:B:464:LYS:NZ	2.47	0.47
2:B:1132:TRP:CZ2	2:B:1136:SER:HB3	2.49	0.47
2:B:1821:ASP:OD1	2:B:1822:GLY:N	2.47	0.47
2:B:2336:ARG:O	2:B:2435:ARG:NH1	2.43	0.47
2:B:2340:PHE:HB2	2:B:2435:ARG:HB3	1.96	0.47
2:B:2750[B]:LYS:O	2:B:2935:TYR:OH	2.31	0.47
2:B:3323:ILE:HG23	2:B:3335:MET:HE1	1.96	0.47
2:B:4183:ILE:HD11	2:B:5021:PHE:HB2	1.96	0.47
2:I:1076:ARG:NH1	2:I:1079:LYS:HG3	2.29	0.47
2:I:1771:LEU:HD22	2:I:2144:ILE:HD11	1.96	0.47
2:I:2032:GLN:O	2:I:2036:GLN:HG2	2.14	0.47
2:I:2115:GLU:OE1	2:I:2115:GLU:N	2.38	0.47
2:I:2916:LYS:HD2	2:I:2920:ARG:HH21	1.78	0.47
2:A:1720:LEU:HD22	2:A:1851:MET:SD	2.54	0.47
2:A:2620:GLN:N	2:A:2620:GLN:OE1	2.48	0.47
2:A:2980:VAL:HG13	2:A:2984:GLY:HA2	1.97	0.47
2:A:2992:GLU:O	2:A:2995:ILE:HB	2.15	0.47
2:A:3270:ILE:HG23	2:A:3274:LEU:HD13	1.95	0.47
2:A:3409:TYR:O	2:A:3413:ILE:HG12	2.14	0.47
2:A:3987:ASP:HA	2:A:3990:VAL:HB	1.96	0.47
2:A:4088:ILE:HG23	2:A:4093:PHE:HB2	1.95	0.47
2:A:4189:ARG:NE	2:A:5032:TYR:HH	2.08	0.47
2:G:1076:ARG:NH1	2:G:1079:LYS:HG3	2.29	0.47
2:G:1131:ARG:HB3	2:G:1139:PHE:CD1	2.48	0.47
2:G:3169:LEU:O	2:G:3172:ILE:HG22	2.14	0.47
2:G:3269:VAL:O	2:G:3272:ILE:N	2.47	0.47
2:G:3409:TYR:O	2:G:3413:ILE:HG12	2.14	0.47
2:G:4152:GLU:HG2	2:G:4192:ARG:HH11	1.79	0.47
2:G:4239:GLU:O	2:G:4242:ILE:HB	2.14	0.47
2:B:1442:GLY:O	2:B:1557:THR:OG1	2.30	0.47
2:B:2032:GLN:O	2:B:2036:GLN:HG2	2.14	0.47
2:B:3987:ASP:HA	2:B:3990:VAL:HB	1.97	0.47
2:B:4087:LEU:HB3	2:B:4122:MET:O	2.14	0.47
2:I:1132:TRP:CZ2	2:I:1136:SER:HB3	2.49	0.47
2:I:3053:ARG:CG	2:I:3056:LEU:HD21	2.43	0.47
2:I:3169:LEU:O	2:I:3172:ILE:HG22	2.14	0.47
2:I:3180:ASN:O	2:I:3183:VAL:HG22	2.13	0.47
2:A:2277:ALA:HB1	2:A:2337:PHE:HD2	1.79	0.47
2:A:3132:THR:HG23	2:A:3136:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3358:PHE:CE2	2:A:3412:LEU:HD13	2.49	0.47
2:A:4235:VAL:HG12	2:A:4992:LEU:HD13	1.97	0.47
1:J:106:LEU:HD12	1:J:106:LEU:HA	1.72	0.47
2:G:1074:ILE:HG23	2:G:1115:LEU:HD11	1.97	0.47
2:G:1182:ILE:O	2:G:1182:ILE:HG13	2.14	0.47
2:G:2309:SER:HA	2:G:2324:ASN:HB2	1.95	0.47
2:G:2355:ARG:O	2:G:2359:ARG:HG2	2.14	0.47
2:G:2916:LYS:HD2	2:G:2920:ARG:HH21	1.78	0.47
2:G:2980:VAL:HG13	2:G:2984:GLY:HA2	1.97	0.47
2:G:4214:LYS:HD3	2:G:4234:PHE:HZ	1.78	0.47
2:G:4222:VAL:HG21	2:G:4950:VAL:HG13	1.95	0.47
2:B:1076:ARG:NH1	2:B:1079:LYS:HG3	2.29	0.47
2:B:1182:ILE:O	2:B:1182:ILE:HG13	2.14	0.47
2:B:2309:SER:HA	2:B:2324:ASN:HB2	1.95	0.47
2:B:2487:GLN:NE2	2:B:2545:GLU:OE2	2.44	0.47
2:B:2595:LEU:O	2:B:2596:THR:OG1	2.30	0.47
2:B:3270:ILE:HG23	2:B:3274:LEU:HD13	1.95	0.47
2:B:3873:LYS:HD2	2:B:3953:LYS:HE3	1.96	0.47
2:B:4170:ILE:HG13	2:B:4171:LEU:N	2.30	0.47
2:B:4235:VAL:HG12	2:B:4992:LEU:HD13	1.96	0.47
2:I:457:GLU:OE2	2:I:464:LYS:NZ	2.47	0.47
2:I:2005:GLN:O	2:I:2009:LEU:HD23	2.13	0.47
2:I:2340:PHE:HB2	2:I:2435:ARG:HB3	1.96	0.47
2:I:2620:GLN:N	2:I:2620:GLN:OE1	2.48	0.47
2:I:3409:TYR:O	2:I:3413:ILE:HG12	2.14	0.47
2:I:4180:ARG:NE	2:I:4981:GLU:OE1	2.40	0.47
2:A:214:VAL:HG22	2:A:341:TYR:CE2	2.49	0.47
2:A:543:ASN:O	2:A:546:TRP:HB3	2.14	0.47
2:A:1272:LEU:HD22	2:A:1289:LEU:HD11	1.96	0.47
2:A:1420:ASN:OD1	2:A:1421:ARG:N	2.47	0.47
2:A:2687:ALA:HB1	2:A:2966:TRP:CH2	2.49	0.47
2:A:4152:GLU:HG2	2:A:4192:ARG:HH11	1.79	0.47
2:A:4239:GLU:O	2:A:4242:ILE:HB	2.14	0.47
2:G:1771:LEU:HD22	2:G:2144:ILE:HD11	1.97	0.47
2:G:4087:LEU:HB3	2:G:4122:MET:O	2.14	0.47
2:B:2894:LEU:HD12	2:B:2897:LYS:HE3	1.97	0.47
2:B:4088:ILE:HG23	2:B:4093:PHE:HB2	1.95	0.47
2:B:4569:LEU:CD2	2:B:4650:HIS:HB2	2.44	0.47
2:I:472:ARG:NH2	2:I:532:GLY:HA3	2.29	0.47
2:I:543:ASN:O	2:I:546:TRP:HB3	2.14	0.47
2:I:1720:LEU:HD22	2:I:1851:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4157:ASP:HB3	2:I:4160:LEU:HD12	1.95	0.47
2:I:4235:VAL:HG12	2:I:4992:LEU:HD13	1.96	0.47
2:I:4569:LEU:CD2	2:I:4650:HIS:HB2	2.44	0.47
2:I:4701:TRP:CE2	2:I:4781:GLY:HA3	2.50	0.47
2:A:990:GLU:HG2	2:A:1024:TYR:CG	2.49	0.47
2:A:1609:PRO:HD2	2:A:1612:PHE:CE2	2.50	0.47
2:A:2438:PRO:HG2	2:A:2443:ILE:HD11	1.94	0.47
2:A:2487:GLN:NE2	2:A:2545:GLU:OE2	2.44	0.47
2:A:2894:LEU:HD12	2:A:2897:LYS:HE3	1.97	0.47
2:A:3190:LEU:HD21	2:A:3272:ILE:HG23	1.95	0.47
2:G:214:VAL:HG22	2:G:341:TYR:CE2	2.49	0.47
2:G:457:GLU:OE2	2:G:464:LYS:NZ	2.47	0.47
2:G:1008:SER:O	2:G:1019:PRO:HA	2.15	0.47
2:G:1122:TYR:CE1	2:G:1133:HIS:CD2	3.03	0.47
2:G:2277:ALA:HB1	2:G:2337:PHE:HD2	1.79	0.47
2:G:2474:LEU:HD23	2:G:2499:LYS:HZ3	1.79	0.47
2:G:2687:ALA:HB1	2:G:2966:TRP:CH2	2.49	0.47
2:G:2992:GLU:O	2:G:2995:ILE:HB	2.15	0.47
2:G:3533:ILE:HG12	2:G:3596:VAL:HG23	1.96	0.47
2:G:3898:ASP:OD1	2:G:3899:PHE:N	2.48	0.47
2:G:3941:ASP:OD1	2:G:3942:VAL:N	2.48	0.47
2:G:4058:ILE:HA	2:G:4061:PHE:CE1	2.49	0.47
2:B:108:LEU:HD11	2:B:117:TYR:HB3	1.96	0.47
2:B:1720:LEU:O	2:B:1722:SER:N	2.47	0.47
2:I:108:LEU:HD11	2:I:117:TYR:HB3	1.96	0.47
2:I:215:THR:HG1	2:I:218:HIS:CE1	2.32	0.47
2:I:4242:ILE:O	2:I:4246:GLN:HG3	2.13	0.47
2:A:108:LEU:HD11	2:A:117:TYR:HB3	1.97	0.47
2:A:1087:ARG:HB3	2:A:1223:PHE:CD2	2.50	0.47
2:A:1131:ARG:HE	2:A:1137:GLU:HB2	1.80	0.47
2:A:2032:GLN:O	2:A:2036:GLN:HG2	2.14	0.47
2:A:3668:SER:O	2:A:3668:SER:OG	2.27	0.47
2:A:3873:LYS:HD2	2:A:3953:LYS:HE3	1.96	0.47
2:A:3898:ASP:OD1	2:A:3899:PHE:N	2.48	0.47
2:A:4157:ASP:HB3	2:A:4160:LEU:HD12	1.95	0.47
2:A:4170:ILE:HG13	2:A:4171:LEU:N	2.30	0.47
2:A:4211:LYS:O	2:A:4215:ARG:HG2	2.15	0.47
2:A:4672:LYS:HE2	2:A:4672:LYS:HA	1.96	0.47
2:A:4738:ALA:O	2:A:4743:MET:HB2	2.14	0.47
2:G:108:LEU:HD11	2:G:117:TYR:HB3	1.96	0.47
2:G:206:CYS:SG	2:G:207:SER:N	2.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2032:GLN:O	2:G:2036:GLN:HG2	2.14	0.47
2:G:2300:SER:C	2:G:2302:LEU:H	2.18	0.47
2:G:2620:GLN:OE1	2:G:2620:GLN:N	2.47	0.47
2:G:2750[B]:LYS:O	2:G:2935:TYR:OH	2.31	0.47
2:G:2929:PHE:O	2:G:2933:ASN:N	2.48	0.47
2:G:3270:ILE:HG23	2:G:3274:LEU:HD13	1.95	0.47
2:G:3844:LEU:O	2:G:3847:PHE:HB3	2.15	0.47
2:G:4067:LYS:HE3	2:G:4169:SER:HB2	1.97	0.47
2:G:4088:ILE:HG23	2:G:4093:PHE:HB2	1.95	0.47
2:G:4170:ILE:HG13	2:G:4171:LEU:N	2.30	0.47
2:G:4675:LYS:HA	2:G:4715:TYR:HD2	1.79	0.47
2:G:4701:TRP:CE2	2:G:4781:GLY:HA3	2.50	0.47
2:G:4843:LEU:HD22	2:I:4823:LEU:CD1	2.44	0.47
2:G:4983:HIS:CB	3:G:5301:ATP:HN62	2.12	0.47
2:B:192:ASP:N	2:B:192:ASP:OD1	2.45	0.47
2:B:828:GLU:OE2	2:B:828:GLU:N	2.44	0.47
2:B:1053:ILE:H	2:B:1053:ILE:HD12	1.79	0.47
2:B:1087:ARG:HB3	2:B:1223:PHE:CD2	2.50	0.47
2:B:1122:TYR:CE1	2:B:1133:HIS:CD2	3.02	0.47
2:B:1131:ARG:HE	2:B:1137:GLU:HB2	1.80	0.47
2:B:2348:GLU:HG2	2:B:3849:ARG:HG3	1.94	0.47
2:B:2449:GLU:HA	2:B:2452:ARG:HE	1.80	0.47
2:B:2620:GLN:OE1	2:B:2620:GLN:N	2.48	0.47
2:B:2719:TYR:OH	2:B:2953:LYS:O	2.26	0.47
2:B:2740:VAL:HG12	2:B:2881:ASN:ND2	2.29	0.47
2:B:2929:PHE:O	2:B:2933:ASN:N	2.48	0.47
2:B:2992:GLU:O	2:B:2995:ILE:HB	2.15	0.47
2:B:3132:THR:HG23	2:B:3136:LEU:HD13	1.96	0.47
2:B:3156:VAL:HG23	2:B:3157:ILE:HD12	1.96	0.47
2:B:3409:TYR:O	2:B:3413:ILE:HG12	2.14	0.47
2:B:3844:LEU:O	2:B:3847:PHE:HB3	2.15	0.47
2:B:3941:ASP:OD1	2:B:3942:VAL:N	2.48	0.47
2:B:4180:ARG:NE	2:B:4981:GLU:OE1	2.40	0.47
2:B:4239:GLU:O	2:B:4242:ILE:HB	2.14	0.47
2:B:4242:ILE:O	2:B:4246:GLN:HG3	2.13	0.47
2:I:779:PRO:HB2	2:I:791:PHE:CZ	2.48	0.47
2:I:917:GLU:HA	2:I:920:TYR:CE1	2.50	0.47
2:I:1008:SER:O	2:I:1019:PRO:HA	2.15	0.47
2:I:1087:ARG:HB3	2:I:1223:PHE:CD2	2.50	0.47
2:I:1733:GLU:HG2	2:I:2201:LEU:HD23	1.96	0.47
2:I:2449:GLU:HA	2:I:2452:ARG:HE	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2601:ASP:O	2:I:2604:GLU:HG3	2.15	0.47
2:I:2894:LEU:HD12	2:I:2897:LYS:HE3	1.97	0.47
2:I:2980:VAL:HG13	2:I:2984:GLY:HA2	1.97	0.47
2:I:3077:ALA:HB3	2:I:3156:VAL:HG12	1.95	0.47
2:I:3269:VAL:O	2:I:3272:ILE:N	2.47	0.47
2:I:3270:ILE:HG23	2:I:3274:LEU:HD13	1.96	0.47
2:I:3844:LEU:O	2:I:3847:PHE:HB3	2.15	0.47
2:I:3898:ASP:OD1	2:I:3899:PHE:N	2.48	0.47
2:I:3962:PHE:CE1	2:I:4023:MET:SD	3.08	0.47
2:I:4170:ILE:HG13	2:I:4171:LEU:N	2.30	0.47
2:A:1733:GLU:HG2	2:A:2201:LEU:HD23	1.96	0.47
2:A:2449:GLU:HA	2:A:2452:ARG:HE	1.80	0.47
2:A:3844:LEU:O	2:A:3847:PHE:HB3	2.15	0.47
2:G:1442:GLY:O	2:G:1557:THR:OG1	2.30	0.47
2:G:1720:LEU:O	2:G:1722:SER:N	2.47	0.47
2:G:4569:LEU:CD2	2:G:4650:HIS:HB2	2.44	0.47
2:G:4699:GLY:O	2:G:4703:ARG:HG3	2.15	0.47
2:B:1276:THR:O	2:B:1282:SER:OG	2.22	0.47
2:B:2355:ARG:O	2:B:2359:ARG:HG2	2.14	0.47
2:B:3282:PRO:HA	2:B:3312:LEU:HD21	1.97	0.47
2:B:3316:LEU:HD13	2:B:3345:ILE:HG23	1.96	0.47
2:I:1053:ILE:H	2:I:1053:ILE:HD12	1.79	0.47
2:I:2026:ASP:OD1	2:I:2026:ASP:N	2.43	0.47
2:I:2300:SER:C	2:I:2302:LEU:H	2.18	0.47
2:I:2776:SER:OG	2:I:2777:TYR:N	2.47	0.47
2:I:3282:PRO:HA	2:I:3312:LEU:HD21	1.97	0.47
2:I:4152:GLU:HG2	2:I:4192:ARG:HH11	1.79	0.47
2:I:4699:GLY:O	2:I:4703:ARG:HG3	2.15	0.47
2:A:192:ASP:OD1	2:A:192:ASP:N	2.45	0.47
2:A:207:SER:H	2:A:334:MET:HE1	1.80	0.47
2:A:2601:ASP:O	2:A:2604:GLU:HG3	2.15	0.47
2:A:2740:VAL:HG12	2:A:2881:ASN:ND2	2.30	0.47
2:A:2977:LEU:O	2:A:2981:VAL:HG23	2.14	0.47
2:A:3045:LYS:O	2:A:3049:LEU:HG	2.15	0.47
2:A:4034:ASN:OD1	2:A:4040:ILE:HB	2.15	0.47
2:G:1132:TRP:CZ2	2:G:1136:SER:HB3	2.49	0.47
2:G:2601:ASP:O	2:G:2604:GLU:HG3	2.15	0.47
2:G:2693:GLN:N	2:G:2996:LYS:HZ1	2.13	0.47
2:G:2776:SER:OG	2:G:2777:TYR:N	2.47	0.47
2:G:3984:ARG:NH1	2:G:3986:TRP:HB2	2.28	0.47
2:G:4672:LYS:HE2	2:G:4672:LYS:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:451:TYR:CZ	2:B:474:ARG:HD2	2.50	0.47
2:B:1201:HIS:CE1	2:B:1203:ASN:HB2	2.50	0.47
2:B:3045:LYS:O	2:B:3049:LEU:HG	2.15	0.47
2:B:3530:GLN:O	2:B:3533:ILE:HB	2.15	0.47
2:I:1122:TYR:CE1	2:I:1133:HIS:CD2	3.02	0.47
2:I:1609:PRO:HD2	2:I:1612:PHE:CE2	2.50	0.47
2:I:2967:MET:CE	2:I:3045:LYS:HB3	2.44	0.47
2:I:4211:LYS:O	2:I:4215:ARG:HG2	2.15	0.47
2:A:3352:GLU:OE1	2:A:3352:GLU:N	2.41	0.47
2:G:472:ARG:NH2	2:G:532:GLY:HA3	2.29	0.47
2:G:1609:PRO:HD2	2:G:1612:PHE:CE2	2.50	0.47
2:G:2449:GLU:HA	2:G:2452:ARG:HE	1.80	0.47
2:G:2578:MET:O	2:G:2581:SER:OG	2.22	0.47
2:G:3077:ALA:HB3	2:G:3156:VAL:HG12	1.95	0.47
2:G:4034:ASN:OD1	2:G:4040:ILE:HB	2.15	0.47
2:G:4062:PHE:HZ	2:G:4143:VAL:HG11	1.80	0.47
2:G:4690:GLU:OE1	2:G:4690:GLU:N	2.49	0.47
2:B:1732:SER:O	2:B:1732:SER:OG	2.30	0.47
2:B:3888:LEU:HD13	2:B:3891:LEU:HD12	1.97	0.47
2:B:4152:GLU:HG2	2:B:4192:ARG:HH11	1.79	0.47
2:B:4156:HIS:HA	2:B:4161:ARG:HH12	1.80	0.47
2:B:4576:ILE:HD12	2:B:4646:LEU:HD12	1.97	0.47
2:I:1201:HIS:CE1	2:I:1203:ASN:HB2	2.50	0.47
2:I:1820:ARG:HD2	2:I:1820:ARG:HA	1.69	0.47
2:I:2750[B]:LYS:H	2:I:2750[B]:LYS:HG3	1.36	0.47
2:I:2992:GLU:O	2:I:2995:ILE:HB	2.15	0.47
2:I:3941:ASP:OD1	2:I:3942:VAL:N	2.48	0.47
2:I:3984:ARG:NH1	2:I:3986:TRP:HB2	2.28	0.47
2:I:4003:LEU:HB3	2:I:4013:LEU:HD12	1.97	0.47
2:I:4214:LYS:HD3	2:I:4234:PHE:HZ	1.78	0.47
2:I:4239:GLU:O	2:I:4242:ILE:HB	2.14	0.47
2:I:4672:LYS:HE2	2:I:4672:LYS:HA	1.96	0.47
2:I:4701:TRP:HA	2:I:4704:LEU:HD23	1.97	0.47
2:A:67:PHE:CD1	2:A:111:HIS:HA	2.50	0.46
2:A:917:GLU:HA	2:A:920:TYR:CE1	2.50	0.46
2:A:1008:SER:O	2:A:1019:PRO:HA	2.15	0.46
2:A:1771:LEU:HD22	2:A:2144:ILE:HD11	1.97	0.46
2:A:2616:PRO:HB3	2:A:2651:CYS:SG	2.56	0.46
2:A:2627:VAL:HG21	2:A:2674:LEU:CD1	2.44	0.46
2:A:2716:ASP:HB2	2:A:2719:TYR:CD1	2.50	0.46
2:A:3941:ASP:OD1	2:A:3942:VAL:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:106:LEU:HD12	1:O:106:LEU:HA	1.72	0.46
2:G:828:GLU:OE2	2:G:828:GLU:N	2.44	0.46
2:G:990:GLU:HG2	2:G:1024:TYR:CG	2.49	0.46
2:G:2579:VAL:HB	2:G:2618:MET:HE1	1.97	0.46
2:G:3358:PHE:CE2	2:G:3412:LEU:HD13	2.49	0.46
2:G:3525:CYS:HA	2:G:3595:ARG:HH12	1.81	0.46
2:G:3873:LYS:HD2	2:G:3953:LYS:HE3	1.96	0.46
2:B:67:PHE:CD1	2:B:111:HIS:HA	2.51	0.46
2:B:543:ASN:O	2:B:546:TRP:HB3	2.14	0.46
2:B:1232:ARG:NH2	2:B:1828:ASP:OD1	2.48	0.46
2:B:2894:LEU:O	2:B:2898:GLY:N	2.48	0.46
2:B:2980:VAL:HG13	2:B:2984:GLY:HA2	1.97	0.46
2:B:3190:LEU:HD21	2:B:3272:ILE:HG23	1.95	0.46
2:B:4003:LEU:HB3	2:B:4013:LEU:HD12	1.97	0.46
2:B:4211:LYS:O	2:B:4215:ARG:HG2	2.15	0.46
2:B:4672:LYS:HE2	2:B:4672:LYS:HA	1.96	0.46
2:B:4690:GLU:OE1	2:B:4690:GLU:N	2.49	0.46
2:B:4699:GLY:O	2:B:4703:ARG:HG3	2.15	0.46
2:I:1074:ILE:HG23	2:I:1115:LEU:HD11	1.97	0.46
2:I:2740:VAL:HG12	2:I:2881:ASN:ND2	2.30	0.46
2:I:3096:PHE:HD2	2:I:3161:VAL:CG1	2.29	0.46
2:I:4690:GLU:OE1	2:I:4690:GLU:N	2.49	0.46
2:A:457:GLU:OE2	2:A:464:LYS:NZ	2.47	0.46
2:A:1074:ILE:HG23	2:A:1115:LEU:HD11	1.97	0.46
2:A:1122:TYR:CE1	2:A:1133:HIS:CD2	3.02	0.46
2:A:1164:LEU:HB2	2:A:1169:LEU:HD11	1.98	0.46
2:A:1714:LEU:O	2:A:1718:ILE:HG12	2.15	0.46
2:A:3156:VAL:HG23	2:A:3157:ILE:HD12	1.96	0.46
2:G:1087:ARG:HB3	2:G:1223:PHE:CD2	2.50	0.46
2:G:1131:ARG:HE	2:G:1137:GLU:HB2	1.80	0.46
2:G:1714:LEU:O	2:G:1718:ILE:HG12	2.16	0.46
2:G:1966:VAL:HG21	2:G:3649:ALA:HB1	1.98	0.46
2:G:2558:VAL:O	2:G:2562:ILE:HG13	2.15	0.46
2:G:2616:PRO:HB3	2:G:2651:CYS:SG	2.55	0.46
2:G:3096:PHE:HD2	2:G:3161:VAL:CG1	2.29	0.46
2:G:3668:SER:O	2:G:3668:SER:OG	2.27	0.46
2:B:214:VAL:HG22	2:B:341:TYR:CE2	2.49	0.46
2:B:2601:ASP:O	2:B:2604:GLU:HG3	2.15	0.46
2:B:3169:LEU:O	2:B:3172:ILE:HG22	2.14	0.46
2:B:3673:MET:SD	2:B:3728:ILE:HD13	2.56	0.46
2:I:67:PHE:CD1	2:I:111:HIS:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:546:TRP:O	2:I:549:SER:OG	2.32	0.46
2:I:1131:ARG:HE	2:I:1137:GLU:HB2	1.80	0.46
2:I:1442:GLY:O	2:I:1557:THR:OG1	2.30	0.46
2:I:2616:PRO:HB3	2:I:2651:CYS:SG	2.56	0.46
2:I:4827:LEU:O	2:I:4830:VAL:HG22	2.16	0.46
2:A:943:ASP:OD1	2:A:945:LYS:HE3	2.16	0.46
2:A:1059:GLU:OE1	2:A:1059:GLU:N	2.49	0.46
2:A:1076:ARG:NH1	2:A:1079:LYS:HG3	2.29	0.46
2:A:2383:ALA:O	2:A:2387:SER:OG	2.27	0.46
2:A:3673:MET:SD	2:A:3728:ILE:HD13	2.56	0.46
2:A:3888:LEU:HD13	2:A:3891:LEU:HD12	1.97	0.46
2:A:3962:PHE:CE1	2:A:4023:MET:SD	3.08	0.46
2:A:4067:LYS:HE3	2:A:4169:SER:HB2	1.97	0.46
2:A:4569:LEU:CD2	2:A:4650:HIS:HB2	2.44	0.46
2:G:67:PHE:CD1	2:G:111:HIS:HA	2.50	0.46
2:G:2716:ASP:HB2	2:G:2719:TYR:CD1	2.50	0.46
2:G:2740:VAL:HG12	2:G:2881:ASN:ND2	2.29	0.46
2:G:2819:TRP:CH2	2:G:2881:ASN:HB2	2.51	0.46
2:G:2880:GLU:O	2:G:2884:ASN:HB2	2.16	0.46
2:G:2894:LEU:HD12	2:G:2897:LYS:HE3	1.97	0.46
2:G:3326:ASN:OD1	2:G:3329:ILE:HB	2.16	0.46
2:G:3436:ARG:NE	2:G:3598:GLU:OE1	2.30	0.46
2:G:3673:MET:SD	2:G:3728:ILE:HD13	2.56	0.46
2:G:3962:PHE:CE1	2:G:4023:MET:SD	3.08	0.46
2:G:4021:LYS:HA	2:G:4142:ASN:HD21	1.81	0.46
2:G:4211:LYS:O	2:G:4215:ARG:HG2	2.15	0.46
2:B:1771:LEU:HD22	2:B:2144:ILE:HD11	1.96	0.46
2:B:3962:PHE:CE1	2:B:4023:MET:SD	3.08	0.46
2:B:4157:ASP:HB3	2:B:4160:LEU:HD12	1.95	0.46
2:B:4701:TRP:CE2	2:B:4781:GLY:HA3	2.50	0.46
2:I:1575:LEU:HD23	2:I:1575:LEU:HA	1.76	0.46
2:I:1966:VAL:HG21	2:I:3649:ALA:HB1	1.98	0.46
2:I:2366:PRO:HA	2:I:2369:ARG:NH1	2.31	0.46
2:I:2819:TRP:CH2	2:I:2881:ASN:HB2	2.51	0.46
2:I:2929:PHE:O	2:I:2933:ASN:N	2.48	0.46
2:I:3944:GLU:HG3	2:I:3947:GLY:H	1.81	0.46
2:I:3951:PHE:CD2	2:I:4012:LEU:HD21	2.49	0.46
2:I:4817:ALA:HB1	2:I:4827:LEU:HD11	1.98	0.46
2:A:2474:LEU:HD23	2:A:2499:LYS:HZ3	1.79	0.46
2:A:2750[B]:LYS:NZ	2:A:2824:GLU:OE1	2.49	0.46
2:A:2750[B]:LYS:O	2:A:2935:TYR:OH	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3169:LEU:O	2:A:3172:ILE:HG22	2.14	0.46
2:A:3525:CYS:HA	2:A:3595:ARG:HH12	1.81	0.46
2:A:4021:LYS:HA	2:A:4142:ASN:HD21	1.81	0.46
2:A:4156:HIS:HA	2:A:4161:ARG:HH12	1.80	0.46
2:G:943:ASP:OD1	2:G:945:LYS:HE3	2.16	0.46
2:G:1164:LEU:HB2	2:G:1169:LEU:HD11	1.98	0.46
2:G:1201:HIS:CE1	2:G:1203:ASN:HB2	2.50	0.46
2:G:1232:ARG:NH2	2:G:1828:ASP:OD1	2.48	0.46
2:G:1420:ASN:OD1	2:G:1421:ARG:N	2.47	0.46
2:G:2767:ALA:HB3	2:G:2857:PRO:HG3	1.97	0.46
2:G:4576:ILE:HD12	2:G:4646:LEU:HD12	1.97	0.46
2:B:233:ILE:O	2:B:257:ARG:NH1	2.41	0.46
2:B:917:GLU:HA	2:B:920:TYR:CE1	2.50	0.46
2:B:1714:LEU:O	2:B:1718:ILE:HG12	2.15	0.46
2:B:2474:LEU:HD23	2:B:2499:LYS:HZ3	1.79	0.46
2:B:2776:SER:OG	2:B:2777:TYR:N	2.47	0.46
2:B:2880:GLU:O	2:B:2884:ASN:HB2	2.16	0.46
2:B:3533:ILE:HG12	2:B:3596:VAL:HG23	1.96	0.46
2:I:1059:GLU:OE1	2:I:1059:GLU:N	2.49	0.46
2:I:2694:GLU:HG2	2:I:2695:LEU:N	2.31	0.46
2:I:2880:GLU:HG2	2:I:2908:TYR:HB3	1.97	0.46
2:I:3987:ASP:HA	2:I:3990:VAL:HB	1.96	0.46
2:I:4087:LEU:HB3	2:I:4122:MET:O	2.14	0.46
2:A:215:THR:H	2:A:218:HIS:CE1	2.34	0.46
2:A:233:ILE:HD12	2:A:242:ARG:HB3	1.98	0.46
2:A:986:ASP:OD1	2:A:986:ASP:N	2.44	0.46
2:A:1232:ARG:NH2	2:A:1828:ASP:OD1	2.48	0.46
2:A:2650:ARG:O	2:A:2661:TRP:HZ2	1.99	0.46
2:A:2750[B]:LYS:H	2:A:2750[B]:LYS:HG3	1.36	0.46
2:A:3078:ARG:HG3	2:A:3079:THR:H	1.81	0.46
2:A:3274:LEU:HD21	2:A:3319:ILE:HD12	1.98	0.46
2:A:4701:TRP:CE2	2:A:4781:GLY:HA3	2.50	0.46
2:G:928:THR:O	2:G:932:LEU:HG	2.16	0.46
2:G:2366:PRO:HA	2:G:2369:ARG:NH1	2.31	0.46
2:G:2514:ASN:ND2	2:G:2516:ASP:HB3	2.31	0.46
2:G:4227:GLU:HA	2:G:4230:LYS:NZ	2.31	0.46
2:B:3553:LEU:HD13	2:B:3596:VAL:HG13	1.98	0.46
2:B:4702:ASP:O	2:B:4705:VAL:HG12	2.16	0.46
2:I:774:ASP:OD1	2:I:774:ASP:N	2.47	0.46
2:I:1232:ARG:NH2	2:I:1828:ASP:OD1	2.48	0.46
2:I:1427:ILE:HD13	2:I:1571:ASN:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2355:ARG:O	2:I:2359:ARG:HG2	2.14	0.46
2:I:2474:LEU:HD23	2:I:2499:LYS:HZ3	1.79	0.46
2:I:2767:ALA:HB3	2:I:2857:PRO:HG3	1.97	0.46
2:I:2880:GLU:O	2:I:2884:ASN:HB2	2.16	0.46
2:I:3246:LEU:HD13	2:I:3249:LEU:HD11	1.98	0.46
2:I:3530:GLN:O	2:I:3533:ILE:HB	2.15	0.46
2:I:4067:LYS:HE3	2:I:4169:SER:HB2	1.96	0.46
2:A:451:TYR:CZ	2:A:474:ARG:HD2	2.50	0.46
2:A:472:ARG:NH2	2:A:532:GLY:HA3	2.29	0.46
2:A:928:THR:O	2:A:932:LEU:HG	2.16	0.46
2:A:1771:LEU:HG	2:A:2153:MET:HE1	1.97	0.46
2:A:2929:PHE:O	2:A:2933:ASN:N	2.48	0.46
2:A:3070:ILE:O	2:A:3074:SER:N	2.46	0.46
2:A:3530:GLN:O	2:A:3533:ILE:HB	2.15	0.46
2:A:4683:PHE:CE2	2:A:5017:ARG:HG3	2.51	0.46
2:A:4690:GLU:OE1	2:A:4690:GLU:N	2.49	0.46
1:J:54:GLU:H	1:J:54:GLU:CD	2.08	0.46
2:G:2694:GLU:HG2	2:G:2695:LEU:N	2.31	0.46
2:G:3987:ASP:HA	2:G:3990:VAL:HB	1.96	0.46
2:G:4003:LEU:HB3	2:G:4013:LEU:HD12	1.97	0.46
2:G:4817:ALA:HB1	2:G:4827:LEU:HD11	1.98	0.46
2:B:215:THR:HG1	2:B:218:HIS:CE1	2.32	0.46
2:B:581:ASN:OD1	2:B:582:HIS:N	2.49	0.46
2:B:943:ASP:OD1	2:B:945:LYS:HE3	2.16	0.46
2:B:2693:GLN:N	2:B:2996:LYS:HZ1	2.13	0.46
2:B:2694:GLU:HG2	2:B:2695:LEU:N	2.31	0.46
2:B:2716:ASP:HB2	2:B:2719:TYR:CD1	2.51	0.46
2:B:3058:GLY:O	2:B:3061:ALA:HB3	2.16	0.46
2:B:4701:TRP:HA	2:B:4704:LEU:HD23	1.97	0.46
2:I:2558:VAL:O	2:I:2562:ILE:HG13	2.16	0.46
2:I:2585:THR:HA	2:I:2588:ARG:NH1	2.31	0.46
2:I:3326:ASN:OD1	2:I:3329:ILE:HB	2.16	0.46
2:I:3673:MET:SD	2:I:3728:ILE:HD13	2.56	0.46
2:A:2355:ARG:O	2:A:2359:ARG:HG2	2.14	0.46
2:A:2479:LEU:HD13	2:A:2541:PHE:CD2	2.51	0.46
2:A:3058:GLY:O	2:A:3061:ALA:HB3	2.16	0.46
2:A:3282:PRO:HA	2:A:3312:LEU:HD21	1.97	0.46
2:A:3533:ILE:HG12	2:A:3596:VAL:HG23	1.96	0.46
2:A:3901:ASN:HA	2:A:3904:ARG:HH21	1.81	0.46
2:A:4062:PHE:HZ	2:A:4143:VAL:HG11	1.80	0.46
2:A:4227:GLU:HA	2:A:4230:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4702:ASP:O	2:A:4705:VAL:HG12	2.16	0.46
2:A:4844:LEU:HD11	2:A:4924:VAL:HG13	1.97	0.46
2:G:451:TYR:CZ	2:G:474:ARG:HD2	2.50	0.46
2:G:4827:LEU:O	2:G:4830:VAL:HG22	2.16	0.46
2:B:659:TYR:HB2	2:B:1017:ARG:HH12	1.81	0.46
2:B:774:ASP:OD1	2:B:774:ASP:N	2.47	0.46
2:B:2616:PRO:HB3	2:B:2651:CYS:SG	2.56	0.46
2:B:2880:GLU:HG2	2:B:2908:TYR:HB3	1.98	0.46
2:B:3096:PHE:HD2	2:B:3161:VAL:CG1	2.29	0.46
2:I:1047:LEU:O	2:I:1049:TYR:N	2.49	0.46
2:I:1720:LEU:O	2:I:1722:SER:N	2.47	0.46
2:I:1732:SER:O	2:I:1732:SER:OG	2.30	0.46
2:I:2750[B]:LYS:NZ	2:I:2824:GLU:OE1	2.49	0.46
2:I:2954:ARG:HB3	2:I:2957:PHE:CB	2.46	0.46
2:I:4062:PHE:HZ	2:I:4143:VAL:HG11	1.80	0.46
2:I:4576:ILE:HD12	2:I:4646:LEU:HD12	1.97	0.46
2:A:1987:SER:OG	2:A:1987:SER:O	2.34	0.46
2:A:3096:PHE:HD2	2:A:3161:VAL:CG1	2.29	0.46
2:A:3326:ASN:OD1	2:A:3329:ILE:HB	2.16	0.46
2:A:3365:LEU:HA	2:A:3368:ARG:HG2	1.98	0.46
2:A:3553:LEU:HD13	2:A:3596:VAL:HG13	1.98	0.46
2:A:3944:GLU:HG3	2:A:3947:GLY:H	1.81	0.46
2:G:233:ILE:HD12	2:G:242:ARG:HB3	1.98	0.46
2:G:233:ILE:O	2:G:257:ARG:NH1	2.41	0.46
2:G:2238:TYR:HA	2:G:2241:ARG:NH2	2.31	0.46
2:G:2775:TRP:HA	2:G:2786:LYS:HB3	1.98	0.46
2:G:2871:LEU:HA	2:G:2874:MET:HG2	1.97	0.46
2:G:3045:LYS:O	2:G:3049:LEU:HG	2.15	0.46
2:G:3282:PRO:HA	2:G:3312:LEU:HD21	1.97	0.46
2:G:3530:GLN:O	2:G:3533:ILE:HB	2.15	0.46
2:G:4066:LEU:HD11	2:G:4173:TYR:HB3	1.98	0.46
2:B:928:THR:O	2:B:932:LEU:HG	2.16	0.46
2:B:1733:GLU:HG2	2:B:2201:LEU:HD23	1.96	0.46
2:B:2366:PRO:HA	2:B:2369:ARG:NH1	2.31	0.46
2:B:2650:ARG:O	2:B:2661:TRP:HZ2	1.99	0.46
2:B:3207:GLU:O	2:B:3210:LEU:N	2.45	0.46
2:B:3898:ASP:OD1	2:B:3899:PHE:N	2.48	0.46
2:B:3944:GLU:HG3	2:B:3947:GLY:H	1.81	0.46
2:B:4227:GLU:HA	2:B:4230:LYS:NZ	2.31	0.46
2:I:2238:TYR:HA	2:I:2241:ARG:NH2	2.31	0.46
2:I:2959:PHE:O	2:I:2963:LEU:HD23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3365:LEU:HA	2:I:3368:ARG:HG2	1.98	0.46
2:I:4227:GLU:HA	2:I:4230:LYS:NZ	2.31	0.46
2:I:4232:GLU:HG2	2:I:5022:PHE:CZ	2.51	0.46
2:I:4737:ILE:HA	2:I:4740:LEU:HD12	1.98	0.46
2:A:581:ASN:OD1	2:A:582:HIS:N	2.49	0.46
2:A:1147:ASP:HB3	2:A:1164:LEU:HD11	1.98	0.46
2:A:2819:TRP:CH2	2:A:2881:ASN:HB2	2.51	0.46
2:A:2871:LEU:HA	2:A:2874:MET:HG2	1.97	0.46
2:A:3096:PHE:HD2	2:A:3161:VAL:HG13	1.81	0.46
2:A:3246:LEU:HD13	2:A:3249:LEU:HD11	1.98	0.46
2:A:4087:LEU:HB3	2:A:4122:MET:O	2.14	0.46
2:G:1433:TYR:CE2	2:G:1578:ALA:HB2	2.51	0.46
2:G:2959:PHE:O	2:G:2963:LEU:HD23	2.16	0.46
2:G:3078:ARG:HG3	2:G:3079:THR:H	1.81	0.46
2:G:3246:LEU:HD13	2:G:3249:LEU:HD11	1.98	0.46
2:G:3455:GLU:OE1	2:G:3510:ILE:HD11	2.16	0.46
2:G:3904:ARG:HB2	2:G:3914:ASN:ND2	2.31	0.46
2:B:233:ILE:HD12	2:B:242:ARG:HB3	1.98	0.46
2:B:546:TRP:O	2:B:549:SER:OG	2.32	0.46
2:B:652:ARG:HD2	2:B:750:LEU:HD13	1.97	0.46
2:B:1059:GLU:OE1	2:B:1059:GLU:N	2.49	0.46
2:B:1609:PRO:HD2	2:B:1612:PHE:CE2	2.50	0.46
2:B:2627:VAL:HG21	2:B:2674:LEU:CD1	2.44	0.46
2:B:2750[A]:LYS:O	2:B:2935:TYR:OH	2.33	0.46
2:B:2871:LEU:HA	2:B:2874:MET:HG2	1.97	0.46
2:B:2959:PHE:O	2:B:2963:LEU:HD23	2.16	0.46
2:B:4574:ASN:ND2	2:B:4810:ALA:HA	2.31	0.46
2:B:4737:ILE:HA	2:B:4740:LEU:HD12	1.98	0.46
2:B:4827:LEU:O	2:B:4830:VAL:HG22	2.16	0.46
2:I:659:TYR:HB2	2:I:1017:ARG:HH12	1.81	0.46
2:I:1714:LEU:O	2:I:1718:ILE:HG12	2.15	0.46
2:I:2627:VAL:HG21	2:I:2674:LEU:CD1	2.44	0.46
2:I:2871:LEU:HA	2:I:2874:MET:HG2	1.97	0.46
2:I:3284:TRP:HA	2:I:3287:ARG:HH21	1.81	0.46
2:A:1201:HIS:CE1	2:A:1203:ASN:HB2	2.50	0.46
2:A:1966:VAL:HG21	2:A:3649:ALA:HB1	1.98	0.46
2:A:2419:GLY:HA2	2:A:2422:ILE:HB	1.98	0.46
2:A:3207:GLU:O	2:A:3210:LEU:N	2.45	0.46
2:A:3419:ASN:OD1	2:A:3422:HIS:HB3	2.16	0.46
2:A:3455:GLU:OE1	2:A:3510:ILE:HD11	2.16	0.46
2:A:4003:LEU:HB3	2:A:4013:LEU:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4817:ALA:HB1	2:A:4827:LEU:HD11	1.98	0.46
2:A:4827:LEU:O	2:A:4830:VAL:HG22	2.16	0.46
2:G:2419:GLY:HA2	2:G:2422:ILE:HB	1.98	0.46
2:G:3400:VAL:HG13	2:G:3403:ARG:HH22	1.81	0.46
2:G:4702:ASP:O	2:G:4705:VAL:HG12	2.16	0.46
2:B:2300:SER:C	2:B:2302:LEU:H	2.18	0.46
2:B:2458:ARG:HA	2:B:2510:TYR:CE1	2.51	0.46
2:B:2775:TRP:HA	2:B:2786:LYS:HB3	1.98	0.46
2:B:3078:ARG:HG3	2:B:3079:THR:H	1.81	0.46
2:B:3274:LEU:HD21	2:B:3319:ILE:HD12	1.98	0.46
2:B:3400:VAL:HG13	2:B:3403:ARG:HH22	1.81	0.46
2:B:3525:CYS:HA	2:B:3595:ARG:HH12	1.81	0.46
2:B:3901:ASN:HA	2:B:3904:ARG:HH21	1.81	0.46
2:B:4080:TYR:HD2	2:B:4096:ALA:HA	1.81	0.46
2:I:2716:ASP:HB2	2:I:2719:TYR:CD1	2.50	0.46
2:I:3320:LEU:O	2:I:3324:VAL:HG23	2.16	0.46
2:I:3400:VAL:HG13	2:I:3403:ARG:HH22	1.81	0.46
2:I:3545:THR:O	2:I:3548:GLU:N	2.49	0.46
2:I:3553:LEU:HD13	2:I:3596:VAL:HG13	1.98	0.46
2:I:4683:PHE:CE2	2:I:5017:ARG:HG3	2.51	0.46
2:A:652:ARG:HD2	2:A:750:LEU:HD13	1.97	0.45
2:A:1464:PHE:CE1	2:A:1553:PHE:HD2	2.34	0.45
2:A:2159:LEU:HD13	2:A:2203:MET:SD	2.56	0.45
1:H:75:THR:HG22	1:H:98:ILE:HG13	1.98	0.45
2:G:659:TYR:HB2	2:G:1017:ARG:HH12	1.81	0.45
2:G:1147:ASP:HB3	2:G:1164:LEU:HD11	1.98	0.45
2:G:2750[B]:LYS:NZ	2:G:2824:GLU:OE1	2.49	0.45
2:G:2954:ARG:HB3	2:G:2957:PHE:CB	2.46	0.45
2:G:3058:GLY:O	2:G:3061:ALA:HB3	2.16	0.45
2:G:3206:LEU:HA	2:G:3246:LEU:CD2	2.42	0.45
2:B:721:LEU:HA	2:B:721:LEU:HD23	1.85	0.45
2:B:887:ILE:HG12	2:B:958:THR:HG23	1.98	0.45
2:B:1074:ILE:HG23	2:B:1115:LEU:HD11	1.97	0.45
2:B:1164:LEU:HB2	2:B:1169:LEU:HD11	1.98	0.45
2:B:1436:SER:HG	2:B:1516:ILE:C	2.18	0.45
2:B:1464:PHE:CE1	2:B:1553:PHE:HD2	2.34	0.45
2:B:1966:VAL:HG21	2:B:3649:ALA:HB1	1.98	0.45
2:B:2479:LEU:HD13	2:B:2541:PHE:CD2	2.51	0.45
2:B:2514:ASN:ND2	2:B:2516:ASP:HB3	2.31	0.45
2:B:2819:TRP:CH2	2:B:2881:ASN:HB2	2.51	0.45
2:B:3903:LEU:HD22	2:B:3915:ILE:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4120:ASN:OD1	2:B:4122:MET:HB3	2.17	0.45
2:I:78:LEU:HD23	2:I:82:LEU:HD23	1.99	0.45
2:I:928:THR:O	2:I:932:LEU:HG	2.16	0.45
2:I:3058:GLY:O	2:I:3061:ALA:HB3	2.16	0.45
2:I:4120:ASN:OD1	2:I:4122:MET:HB3	2.17	0.45
2:A:1100:MET:HE2	2:A:1100:MET:HB3	1.84	0.45
2:A:2775:TRP:HA	2:A:2786:LYS:HB3	1.97	0.45
2:A:2880:GLU:HG2	2:A:2908:TYR:HB3	1.97	0.45
2:A:2976:HIS:O	2:A:2980:VAL:HG23	2.16	0.45
2:A:3284:TRP:HA	2:A:3287:ARG:HH21	1.81	0.45
2:A:3873:LYS:HE3	2:A:3873:LYS:HB3	1.45	0.45
2:A:3916:ILE:O	2:A:3920:VAL:HG23	2.17	0.45
2:A:4175:ARG:HG2	2:A:4175:ARG:HH21	1.82	0.45
2:A:4839:MET:HB3	2:G:4823:LEU:HD21	1.97	0.45
1:J:75:THR:HG22	1:J:98:ILE:HG13	1.99	0.45
2:G:917:GLU:HA	2:G:920:TYR:CE1	2.50	0.45
2:G:1047:LEU:O	2:G:1049:TYR:N	2.49	0.45
2:G:1427:ILE:HD13	2:G:1571:ASN:HA	1.98	0.45
2:G:2458:ARG:HA	2:G:2510:TYR:CE1	2.51	0.45
2:G:2650:ARG:O	2:G:2661:TRP:HZ2	1.99	0.45
2:G:2951:ILE:H	2:G:2951:ILE:HD12	1.81	0.45
2:G:3284:TRP:HA	2:G:3287:ARG:HH21	1.81	0.45
2:G:3545:THR:O	2:G:3548:GLU:N	2.49	0.45
2:G:4683:PHE:CE2	2:G:5017:ARG:HG3	2.51	0.45
2:B:215:THR:H	2:B:218:HIS:CE1	2.34	0.45
2:B:1076:ARG:NH2	2:B:1655:GLU:OE1	2.45	0.45
2:B:1771:LEU:HG	2:B:2153:MET:HE1	1.99	0.45
2:B:2259:GLU:HB3	2:B:2297:LYS:HZ3	1.81	0.45
2:B:2951:ILE:H	2:B:2951:ILE:HD12	1.81	0.45
2:B:3246:LEU:HD13	2:B:3249:LEU:HD11	1.98	0.45
2:B:4034:ASN:OD1	2:B:4040:ILE:HB	2.15	0.45
2:B:4817:ALA:HB1	2:B:4827:LEU:HD11	1.98	0.45
2:I:2650:ARG:O	2:I:2661:TRP:HZ2	1.99	0.45
2:I:2775:TRP:HA	2:I:2786:LYS:HB3	1.98	0.45
2:I:2951:ILE:H	2:I:2951:ILE:HD12	1.82	0.45
2:I:4217:PHE:O	2:I:4220:ASP:N	2.49	0.45
2:I:4844:LEU:HD11	2:I:4924:VAL:HG13	1.97	0.45
1:F:75:THR:HG22	1:F:98:ILE:HG13	1.98	0.45
2:A:1076:ARG:NH2	2:A:1655:GLU:OE1	2.45	0.45
2:A:1427:ILE:HD13	2:A:1571:ASN:HA	1.98	0.45
2:A:1577:ALA:O	2:A:1584:ARG:NE	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2175:GLU:HA	2:A:2228:MET:HE1	1.99	0.45
2:A:2299:VAL:HG11	2:A:2356:LEU:HG	1.99	0.45
2:A:2366:PRO:HA	2:A:2369:ARG:NH1	2.31	0.45
2:A:2595:LEU:O	2:A:2596:THR:OG1	2.31	0.45
2:A:2641:LEU:O	2:A:2644:LEU:HG	2.17	0.45
2:A:4232:GLU:HG2	2:A:5022:PHE:CZ	2.51	0.45
2:A:4843:LEU:HD22	2:G:4823:LEU:CD1	2.46	0.45
1:O:75:THR:HG22	1:O:98:ILE:HG13	1.99	0.45
2:G:581:ASN:OD1	2:G:582:HIS:N	2.49	0.45
2:G:721:LEU:HA	2:G:721:LEU:HD23	1.85	0.45
2:G:2479:LEU:HD13	2:G:2541:PHE:CD2	2.51	0.45
2:G:2627:VAL:HG21	2:G:2674:LEU:CD1	2.45	0.45
2:G:2894:LEU:O	2:G:2898:GLY:N	2.48	0.45
2:G:3096:PHE:HD2	2:G:3161:VAL:HG13	1.81	0.45
2:G:4730:ASP:OD1	2:G:4730:ASP:N	2.50	0.45
2:B:1427:ILE:HD13	2:B:1571:ASN:HA	1.97	0.45
2:B:2159:LEU:HD13	2:B:2203:MET:SD	2.56	0.45
2:B:2750[B]:LYS:NZ	2:B:2824:GLU:OE1	2.49	0.45
2:B:2816:MET:HE1	2:B:2823:ILE:HG12	1.98	0.45
2:B:3096:PHE:HD2	2:B:3161:VAL:HG13	1.81	0.45
2:B:3455:GLU:OE1	2:B:3510:ILE:HD11	2.17	0.45
2:B:3916:ILE:O	2:B:3920:VAL:HG23	2.17	0.45
2:B:4201:ASN:HB3	2:B:4993:MET:HE3	1.97	0.45
2:I:1164:LEU:HB2	2:I:1169:LEU:HD11	1.98	0.45
2:I:1987:SER:OG	2:I:1987:SER:O	2.34	0.45
2:I:2458:ARG:HA	2:I:2510:TYR:CE1	2.51	0.45
2:I:2479:LEU:HD13	2:I:2541:PHE:CD2	2.51	0.45
2:I:3078:ARG:CG	2:I:3079:THR:H	2.30	0.45
2:I:3078:ARG:HG3	2:I:3079:THR:H	1.81	0.45
2:I:3888:LEU:HD13	2:I:3891:LEU:HD12	1.97	0.45
2:I:4702:ASP:O	2:I:4705:VAL:HG12	2.16	0.45
2:I:5011:TRP:CE2	2:I:5015:GLN:NE2	2.85	0.45
2:A:779:PRO:HB2	2:A:791:PHE:CZ	2.48	0.45
2:A:2434:GLY:O	2:A:2508:ARG:NE	2.45	0.45
2:A:2514:ASN:ND2	2:A:2516:ASP:HB3	2.31	0.45
2:A:2694:GLU:HG2	2:A:2695:LEU:N	2.31	0.45
2:A:2767:ALA:HB3	2:A:2857:PRO:HG3	1.97	0.45
2:A:2880:GLU:O	2:A:2884:ASN:HB2	2.16	0.45
2:A:3409:TYR:OH	2:A:3441:ILE:HG21	2.16	0.45
2:A:4574:ASN:ND2	2:A:4810:ALA:HA	2.31	0.45
2:G:652:ARG:HD2	2:G:750:LEU:HD13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:816:LEU:HD21	2:G:851:PHE:HE2	1.82	0.45
2:G:2585:THR:HA	2:G:2588:ARG:NH1	2.31	0.45
2:G:4701:TRP:HA	2:G:4704:LEU:HD23	1.97	0.45
2:G:4863:TYR:HB2	2:G:4874:MET:CE	2.46	0.45
2:B:929:LEU:HA	2:B:932:LEU:HG	1.99	0.45
2:B:988:LEU:HD12	2:B:988:LEU:HA	1.80	0.45
2:B:1008:SER:O	2:B:1019:PRO:HA	2.15	0.45
2:B:2736:ASP:OD2	2:B:2738:ARG:NH2	2.47	0.45
2:B:3365:LEU:HA	2:B:3368:ARG:HG2	1.98	0.45
2:B:3771:HIS:CD2	2:B:3812:VAL:HG22	2.52	0.45
2:B:4067:LYS:HE3	2:B:4169:SER:HB2	1.97	0.45
2:B:4683:PHE:CE2	2:B:5017:ARG:HG3	2.51	0.45
2:I:581:ASN:OD1	2:I:582:HIS:N	2.49	0.45
2:I:2487:GLN:NE2	2:I:2545:GLU:OE2	2.44	0.45
2:I:2883:HIS:NE2	2:I:2906:VAL:O	2.39	0.45
2:A:887:ILE:HG12	2:A:958:THR:HG23	1.99	0.45
2:A:1270:LEU:HD21	2:A:1591:CYS:SG	2.56	0.45
2:A:2153:MET:HA	2:A:2153:MET:HE2	1.99	0.45
2:A:2558:VAL:O	2:A:2562:ILE:HG13	2.15	0.45
2:A:3545:THR:O	2:A:3548:GLU:N	2.49	0.45
2:A:3771:HIS:CD2	2:A:3812:VAL:HG22	2.52	0.45
2:A:3903:LEU:HD22	2:A:3915:ILE:HG21	1.98	0.45
2:A:4066:LEU:HD11	2:A:4173:TYR:HB3	1.98	0.45
2:A:4210:VAL:O	2:A:4214:LYS:HG2	2.17	0.45
2:A:4217:PHE:O	2:A:4220:ASP:N	2.50	0.45
2:A:4699:GLY:O	2:A:4703:ARG:HG3	2.15	0.45
2:A:4701:TRP:HA	2:A:4704:LEU:HD23	1.97	0.45
2:G:849:THR:O	2:G:851:PHE:N	2.50	0.45
2:G:1464:PHE:CE1	2:G:1553:PHE:HD2	2.34	0.45
2:G:2750[A]:LYS:O	2:G:2935:TYR:OH	2.33	0.45
2:G:3274:LEU:HD21	2:G:3319:ILE:HD12	1.98	0.45
2:G:3771:HIS:CD2	2:G:3812:VAL:HG22	2.52	0.45
2:G:3888:LEU:HD13	2:G:3891:LEU:HD12	1.97	0.45
2:G:4156:HIS:HA	2:G:4161:ARG:HH12	1.80	0.45
2:G:4217:PHE:O	2:G:4220:ASP:N	2.49	0.45
2:B:78:LEU:HD23	2:B:82:LEU:HD23	1.99	0.45
2:B:130:LYS:HD2	2:B:130:LYS:HA	1.69	0.45
2:B:1420:ASN:OD1	2:B:1421:ARG:N	2.47	0.45
2:B:1552:VAL:HG21	2:B:1562:ILE:CD1	2.47	0.45
2:B:2641:LEU:O	2:B:2644:LEU:HG	2.17	0.45
2:B:3078:ARG:CG	2:B:3079:THR:H	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3320:LEU:O	2:B:3324:VAL:HG23	2.16	0.45
2:B:3419:ASN:OD1	2:B:3422:HIS:HB3	2.16	0.45
2:B:3545:THR:O	2:B:3548:GLU:N	2.49	0.45
2:B:4150:LEU:HD23	2:B:4150:LEU:HA	1.82	0.45
2:I:215:THR:H	2:I:218:HIS:CE1	2.34	0.45
2:I:451:TYR:CZ	2:I:474:ARG:HD2	2.50	0.45
2:I:1433:TYR:CE1	2:I:1573:MET:HB2	2.52	0.45
2:I:2534:ALA:HB3	2:I:2588:ARG:HE	1.81	0.45
2:I:3096:PHE:HD2	2:I:3161:VAL:HG13	1.81	0.45
2:I:3455:GLU:OE1	2:I:3510:ILE:HD11	2.16	0.45
2:I:4034:ASN:OD1	2:I:4040:ILE:HB	2.15	0.45
2:I:4221:VAL:HG23	2:I:4230:LYS:HZ3	1.82	0.45
2:I:4863:TYR:HB2	2:I:4874:MET:CE	2.46	0.45
1:F:9:PRO:HD3	2:A:736:HIS:HB2	1.98	0.45
2:A:1047:LEU:O	2:A:1049:TYR:N	2.49	0.45
2:A:2458:ARG:HA	2:A:2510:TYR:CE1	2.51	0.45
2:A:2585:THR:HA	2:A:2588:ARG:NH1	2.31	0.45
2:A:2959:PHE:O	2:A:2963:LEU:HD23	2.16	0.45
2:A:3389:GLU:OE2	2:A:3392:LEU:HD12	2.17	0.45
2:A:3877:ASP:OD2	2:A:3877:ASP:N	2.48	0.45
2:A:3946:GLN:O	2:A:3949:ARG:HD3	2.17	0.45
2:A:4080:TYR:HD2	2:A:4096:ALA:HA	1.81	0.45
2:G:123:THR:OG1	2:G:134:ASP:OD2	2.34	0.45
2:G:1059:GLU:OE1	2:G:1059:GLU:N	2.49	0.45
2:G:1987:SER:OG	2:G:1987:SER:O	2.34	0.45
2:G:2534:ALA:HB3	2:G:2588:ARG:HE	1.81	0.45
2:G:3944:GLU:HG3	2:G:3947:GLY:H	1.81	0.45
2:G:4232:GLU:HG2	2:G:5022:PHE:CZ	2.51	0.45
2:G:4574:ASN:ND2	2:G:4810:ALA:HA	2.31	0.45
2:B:2558:VAL:O	2:B:2562:ILE:HG13	2.15	0.45
2:B:3873:LYS:HE3	2:B:3873:LYS:HB3	1.45	0.45
2:B:4062:PHE:HZ	2:B:4143:VAL:HG11	1.80	0.45
2:I:206:CYS:HB2	2:I:271:GLY:HA3	1.99	0.45
2:I:2207:VAL:HG22	2:I:2232:CYS:SG	2.57	0.45
2:I:2419:GLY:HA2	2:I:2422:ILE:HB	1.98	0.45
2:I:3419:ASN:OD1	2:I:3422:HIS:HB3	2.16	0.45
2:I:4021:LYS:HA	2:I:4142:ASN:HD21	1.81	0.45
2:A:909:ASN:ND2	2:A:912:SER:OG	2.50	0.45
2:A:2300:SER:C	2:A:2302:LEU:H	2.18	0.45
2:A:3320:LEU:O	2:A:3324:VAL:HG23	2.16	0.45
2:A:4576:ILE:HD12	2:A:4646:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:5011:TRP:CE2	2:A:5015:GLN:NE2	2.85	0.45
2:G:134:ASP:N	2:G:134:ASP:OD1	2.50	0.45
2:G:929:LEU:HA	2:G:932:LEU:HG	1.99	0.45
2:G:2159:LEU:HD13	2:G:2203:MET:SD	2.56	0.45
2:G:2487:GLN:NE2	2:G:2545:GLU:OE2	2.44	0.45
2:G:3078:ARG:CG	2:G:3079:THR:H	2.30	0.45
2:G:3320:LEU:O	2:G:3324:VAL:HG23	2.16	0.45
2:G:3409:TYR:OH	2:G:3441:ILE:HG21	2.16	0.45
2:G:4844:LEU:HD11	2:G:4924:VAL:HG13	1.97	0.45
2:G:4986:ALA:HB1	2:G:4990:PHE:CZ	2.52	0.45
2:B:134:ASP:N	2:B:134:ASP:OD1	2.50	0.45
2:B:849:THR:O	2:B:851:PHE:N	2.50	0.45
2:B:1047:LEU:O	2:B:1049:TYR:N	2.49	0.45
2:B:1433:TYR:CE2	2:B:1578:ALA:HB2	2.51	0.45
2:B:1577:ALA:O	2:B:1584:ARG:NE	2.45	0.45
2:B:2419:GLY:HA2	2:B:2422:ILE:HB	1.98	0.45
2:B:3284:TRP:HA	2:B:3287:ARG:HH21	1.81	0.45
2:B:3326:ASN:OD1	2:B:3329:ILE:HB	2.16	0.45
2:B:3904:ARG:HB2	2:B:3914:ASN:ND2	2.31	0.45
2:B:3958:ALA:O	2:B:3962:PHE:CD2	2.70	0.45
2:B:4183:ILE:HD12	2:B:4183:ILE:HA	1.89	0.45
2:B:4730:ASP:OD1	2:B:4730:ASP:N	2.50	0.45
2:B:4986:ALA:HB1	2:B:4990:PHE:CZ	2.52	0.45
2:B:5011:TRP:CE2	2:B:5015:GLN:NE2	2.85	0.45
2:I:233:ILE:HD12	2:I:242:ARG:HB3	1.98	0.45
2:I:652:ARG:HD2	2:I:750:LEU:HD13	1.97	0.45
2:I:909:ASN:ND2	2:I:912:SER:OG	2.50	0.45
2:I:1577:ALA:O	2:I:1584:ARG:NE	2.45	0.45
2:I:2913:ALA:HA	2:I:2916:LYS:HB2	1.99	0.45
2:I:3045:LYS:O	2:I:3049:LEU:HG	2.15	0.45
2:I:3903:LEU:HD22	2:I:3915:ILE:HG21	1.98	0.45
2:I:3904:ARG:HB2	2:I:3914:ASN:ND2	2.31	0.45
2:I:3958:ALA:O	2:I:3962:PHE:CD2	2.70	0.45
2:I:4066:LEU:HD11	2:I:4173:TYR:HB3	1.98	0.45
2:I:4156:HIS:HA	2:I:4161:ARG:HH12	1.80	0.45
2:I:4175:ARG:HG2	2:I:4175:ARG:HH21	1.82	0.45
2:A:659:TYR:HB2	2:A:1017:ARG:HH12	1.81	0.45
2:A:929:LEU:HA	2:A:932:LEU:HG	1.99	0.45
2:A:1552:VAL:HG21	2:A:1562:ILE:CD1	2.47	0.45
2:A:3206:LEU:HA	2:A:3246:LEU:CD2	2.42	0.45
2:A:3372:VAL:HG11	2:A:3397:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:206:CYS:HB2	2:G:271:GLY:HA3	1.99	0.45
2:G:779:PRO:HB2	2:G:791:PHE:CZ	2.48	0.45
2:G:1552:VAL:HG21	2:G:1562:ILE:CD1	2.47	0.45
2:G:1575:LEU:HD23	2:G:1575:LEU:HA	1.76	0.45
2:G:2018:GLU:OE1	2:G:2018:GLU:N	2.49	0.45
2:G:2641:LEU:O	2:G:2644:LEU:HG	2.17	0.45
2:G:3916:ILE:O	2:G:3920:VAL:HG23	2.17	0.45
2:G:4097:MET:HE1	2:G:4108:ILE:HA	1.99	0.45
2:G:4120:ASN:OD1	2:G:4122:MET:HB3	2.17	0.45
2:G:4201:ASN:HB3	2:G:4993:MET:HE3	1.99	0.45
2:G:4843:LEU:HB2	2:I:4823:LEU:CD1	2.45	0.45
2:B:38:ALA:HB2	2:B:65:CYS:SG	2.57	0.45
2:B:181:HIS:HA	2:B:198:THR:HG21	1.99	0.45
2:B:839:LEU:O	2:B:1194:LEU:HD22	2.17	0.45
2:B:1270:LEU:HD21	2:B:1591:CYS:SG	2.56	0.45
2:B:2233:CYS:SG	2:B:2270:SER:OG	2.56	0.45
2:B:2238:TYR:HA	2:B:2241:ARG:NH2	2.31	0.45
2:B:2531:ARG:HA	2:B:2588:ARG:NH2	2.26	0.45
2:B:2767:ALA:HB3	2:B:2857:PRO:HG3	1.97	0.45
2:B:3389:GLU:OE2	2:B:3392:LEU:HD12	2.17	0.45
2:I:134:ASP:OD1	2:I:134:ASP:N	2.50	0.45
2:I:943:ASP:OD1	2:I:945:LYS:HE3	2.16	0.45
2:I:2514:ASN:ND2	2:I:2516:ASP:HB3	2.31	0.45
2:I:3771:HIS:CD2	2:I:3812:VAL:HG22	2.52	0.45
2:I:4210:VAL:O	2:I:4214:LYS:HG2	2.17	0.45
2:A:38:ALA:HB2	2:A:65:CYS:SG	2.57	0.45
2:A:232:THR:OG1	2:A:248:GLU:OE2	2.30	0.45
2:A:2954:ARG:HB3	2:A:2957:PHE:CB	2.46	0.45
2:A:3078:ARG:CG	2:A:3079:THR:H	2.30	0.45
2:A:3889:GLN:HG3	2:A:3967:GLU:HG2	1.98	0.45
2:G:181:HIS:HA	2:G:198:THR:HG21	1.99	0.45
2:G:215:THR:H	2:G:218:HIS:CE1	2.34	0.45
2:G:909:ASN:ND2	2:G:912:SER:OG	2.50	0.45
2:G:1270:LEU:HD21	2:G:1591:CYS:SG	2.56	0.45
2:G:2478:THR:HB	2:G:2487:GLN:H	1.82	0.45
2:G:2816:MET:CE	2:G:2823:ILE:HG12	2.47	0.45
2:G:3553:LEU:HD13	2:G:3596:VAL:HG13	1.98	0.45
2:G:3994:HIS:CE1	2:G:3998:HIS:CE1	3.05	0.45
2:G:4217:PHE:CD2	2:G:4234:PHE:CD2	3.05	0.45
2:G:4923:PHE:HA	2:G:4927:ILE:HD11	1.99	0.45
2:B:123:THR:OG1	2:B:134:ASP:OD2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:392:ARG:HD2	2:B:393:CYS:H	1.82	0.45
2:B:2153:MET:HE2	2:B:2153:MET:HA	1.98	0.45
2:B:2207:VAL:HG22	2:B:2232:CYS:SG	2.57	0.45
2:B:2585:THR:HA	2:B:2588:ARG:NH1	2.31	0.45
2:B:2913:ALA:HA	2:B:2916:LYS:HB2	1.99	0.45
2:B:2976:HIS:O	2:B:2980:VAL:HG23	2.16	0.45
2:B:4217:PHE:O	2:B:4220:ASP:N	2.49	0.45
2:B:4823:LEU:CD1	2:I:4843:LEU:HD22	2.46	0.45
2:I:1147:ASP:HB3	2:I:1164:LEU:HD11	1.98	0.45
2:I:1270:LEU:HD21	2:I:1591:CYS:SG	2.56	0.45
2:I:1276:THR:O	2:I:1282:SER:OG	2.22	0.45
2:I:1433:TYR:CE2	2:I:1578:ALA:HB2	2.51	0.45
2:I:1464:PHE:CE1	2:I:1553:PHE:HD2	2.34	0.45
2:I:1552:VAL:HG21	2:I:1562:ILE:CD1	2.47	0.45
2:I:2693:GLN:N	2:I:2996:LYS:HZ1	2.15	0.45
2:I:3389:GLU:OE2	2:I:3392:LEU:HD12	2.17	0.45
2:I:4730:ASP:N	2:I:4730:ASP:OD1	2.50	0.45
2:A:181:HIS:HA	2:A:198:THR:HG21	1.99	0.45
2:A:426:ARG:HB3	2:A:431:PRO:HA	1.99	0.45
2:A:774:ASP:OD1	2:A:774:ASP:N	2.47	0.45
2:A:1221:GLU:OE1	2:A:1221:GLU:N	2.50	0.45
2:A:2694:GLU:O	2:A:2698:MET:HG3	2.17	0.45
2:A:2816:MET:CE	2:A:2823:ILE:HG12	2.47	0.45
2:A:2883:HIS:NE2	2:A:2906:VAL:O	2.39	0.45
2:A:2902:HIS:HB2	2:A:2905:LEU:HB2	1.99	0.45
2:A:2951:ILE:H	2:A:2951:ILE:HD12	1.82	0.45
2:A:3904:ARG:HB2	2:A:3914:ASN:ND2	2.31	0.45
2:G:38:ALA:HB2	2:G:65:CYS:SG	2.57	0.45
2:G:883:ALA:HA	2:G:904:HIS:CE1	2.52	0.45
2:G:2207:VAL:HG22	2:G:2232:CYS:SG	2.57	0.45
2:G:2624:ARG:O	2:G:2627:VAL:HB	2.17	0.45
2:G:2902:HIS:HB2	2:G:2905:LEU:HB2	1.99	0.45
2:G:3054:VAL:HG22	2:G:3131:TYR:CG	2.52	0.45
2:G:3958:ALA:O	2:G:3962:PHE:CD2	2.70	0.45
2:G:4080:TYR:HD2	2:G:4096:ALA:HA	1.81	0.45
2:B:816:LEU:HD21	2:B:851:PHE:HE2	1.82	0.45
2:B:2954:ARG:HB3	2:B:2957:PHE:CB	2.46	0.45
2:B:3531:ASP:OD1	2:B:3532:LEU:N	2.46	0.45
2:B:4021:LYS:HA	2:B:4142:ASN:HD21	1.81	0.45
2:B:4175:ARG:HH21	2:B:4175:ARG:HG2	1.82	0.45
2:B:4217:PHE:CD2	2:B:4234:PHE:CD2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:839:LEU:O	2:I:1194:LEU:HD22	2.17	0.45
2:I:929:LEU:HA	2:I:932:LEU:HG	1.99	0.45
2:I:1942:LEU:HD23	2:I:1942:LEU:HA	1.83	0.45
2:I:2894:LEU:O	2:I:2898:GLY:N	2.48	0.45
2:I:2902:HIS:HB2	2:I:2905:LEU:HB2	1.99	0.45
2:I:3946:GLN:O	2:I:3949:ARG:HD3	2.17	0.45
2:I:4574:ASN:ND2	2:I:4810:ALA:HA	2.31	0.45
2:A:3400:VAL:HG13	2:A:3403:ARG:HH22	1.81	0.44
2:A:3994:HIS:CE1	2:A:3998:HIS:CE1	3.05	0.44
2:A:4157:ASP:N	2:A:4161:ARG:NH1	2.62	0.44
2:A:4730:ASP:OD1	2:A:4730:ASP:N	2.50	0.44
2:G:2215:LEU:HD23	2:G:2215:LEU:HA	1.87	0.44
2:G:2976:HIS:O	2:G:2980:VAL:HG23	2.16	0.44
2:G:3365:LEU:HA	2:G:3368:ARG:HG2	1.98	0.44
2:G:5011:TRP:CE2	2:G:5015:GLN:NE2	2.85	0.44
2:B:783:PHE:HB2	2:B:787:VAL:HG21	1.99	0.44
2:B:928:THR:O	2:B:931:THR:OG1	2.30	0.44
2:B:2478:THR:HB	2:B:2487:GLN:H	1.82	0.44
2:B:2694:GLU:O	2:B:2698:MET:HG3	2.17	0.44
2:B:3368:ARG:HH11	2:B:3368:ARG:HG3	1.83	0.44
2:B:4210:VAL:O	2:B:4214:LYS:HG2	2.17	0.44
2:I:123:THR:OG1	2:I:134:ASP:OD2	2.34	0.44
2:I:2159:LEU:HD13	2:I:2203:MET:SD	2.56	0.44
2:I:2273:LEU:HD21	2:I:2331:TYR:HA	2.00	0.44
2:I:4083:ASP:HB2	2:I:4122:MET:CE	2.47	0.44
2:I:4217:PHE:CD2	2:I:4234:PHE:CD2	3.05	0.44
2:I:4923:PHE:HA	2:I:4927:ILE:HD11	1.99	0.44
1:F:52:LYS:HE2	1:F:52:LYS:HB3	1.76	0.44
2:A:123:THR:OG1	2:A:134:ASP:OD2	2.34	0.44
2:A:682:LEU:HA	2:A:782:SER:O	2.18	0.44
2:A:959:TYR:CG	2:A:960:MET:N	2.85	0.44
2:A:2238:TYR:HA	2:A:2241:ARG:NH2	2.31	0.44
2:A:2960:LEU:HD22	2:A:3042:LEU:HD11	1.98	0.44
2:A:4120:ASN:OD1	2:A:4122:MET:HB3	2.17	0.44
2:A:4217:PHE:CD2	2:A:4234:PHE:CD2	3.05	0.44
2:A:4953:ASP:HA	2:A:4956:THR:HG22	2.00	0.44
2:G:78:LEU:HD23	2:G:82:LEU:HD23	1.98	0.44
2:G:924:MET:O	2:G:928:THR:OG1	2.30	0.44
2:G:2821:TRP:CZ3	2:G:2874:MET:HB2	2.53	0.44
2:G:2880:GLU:HG2	2:G:2908:TYR:HB3	1.97	0.44
2:G:2883:HIS:NE2	2:G:2906:VAL:O	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3419:ASN:OD1	2:G:3422:HIS:HB3	2.16	0.44
2:G:3873:LYS:HB3	2:G:3873:LYS:HE3	1.45	0.44
2:G:3951:PHE:CD2	2:G:4012:LEU:HD21	2.49	0.44
2:G:4210:VAL:O	2:G:4214:LYS:HG2	2.17	0.44
2:B:883:ALA:HA	2:B:904:HIS:CE1	2.52	0.44
2:B:1221:GLU:N	2:B:1221:GLU:OE1	2.50	0.44
2:B:2299:VAL:HG11	2:B:2356:LEU:HG	1.99	0.44
2:B:2960:LEU:HD22	2:B:3042:LEU:HD11	1.98	0.44
2:B:3352:GLU:OE1	2:B:3352:GLU:N	2.41	0.44
2:B:3877:ASP:OD2	2:B:3877:ASP:N	2.48	0.44
2:I:38:ALA:HB2	2:I:65:CYS:SG	2.57	0.44
2:I:378:LEU:HD23	2:I:378:LEU:HA	1.85	0.44
2:I:590:LEU:HG	2:I:599:VAL:HG11	1.99	0.44
2:I:783:PHE:HB2	2:I:787:VAL:HG21	2.00	0.44
2:I:959:TYR:CG	2:I:960:MET:N	2.85	0.44
2:I:2694:GLU:O	2:I:2698:MET:HG3	2.17	0.44
2:I:3158:LEU:O	2:I:3162:GLN:NE2	2.50	0.44
2:I:3274:LEU:HD21	2:I:3319:ILE:HD12	1.98	0.44
2:A:78:LEU:HD23	2:A:82:LEU:HD23	1.99	0.44
2:A:353:SER:O	2:A:355:LEU:N	2.51	0.44
2:A:816:LEU:HD21	2:A:851:PHE:HE2	1.82	0.44
2:A:849:THR:O	2:A:851:PHE:N	2.50	0.44
2:A:2207:VAL:HG22	2:A:2232:CYS:SG	2.57	0.44
2:A:2750[A]:LYS:O	2:A:2935:TYR:OH	2.33	0.44
2:A:4083:ASP:HB2	2:A:4122:MET:CE	2.47	0.44
2:A:4843:LEU:HB2	2:G:4823:LEU:CD1	2.44	0.44
2:G:2299:VAL:HG11	2:G:2356:LEU:HG	1.99	0.44
2:G:2821:TRP:CD1	2:G:2939:ARG:HG3	2.53	0.44
2:G:3171:SER:O	2:G:3174:SER:OG	2.32	0.44
2:G:3372:VAL:HG11	2:G:3397:GLU:OE1	2.17	0.44
2:G:3788:GLY:HA2	2:G:3835:LEU:HD22	1.99	0.44
2:G:3946:GLN:O	2:G:3949:ARG:HD3	2.17	0.44
2:B:682:LEU:HA	2:B:782:SER:O	2.18	0.44
2:B:959:TYR:CG	2:B:960:MET:N	2.85	0.44
2:B:3575:LEU:HD21	2:I:1208:VAL:HG12	2.00	0.44
2:B:3951:PHE:CD2	2:B:4012:LEU:HD21	2.49	0.44
2:B:4232:GLU:HG2	2:B:5022:PHE:CZ	2.51	0.44
2:B:4923:PHE:HA	2:B:4927:ILE:HD11	1.99	0.44
2:I:426:ARG:HB3	2:I:431:PRO:HA	1.99	0.44
2:I:849:THR:O	2:I:851:PHE:N	2.50	0.44
2:I:1221:GLU:OE1	2:I:1221:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1469:VAL:HG23	2:I:1492:CYS:HB3	1.99	0.44
2:I:2641:LEU:O	2:I:2644:LEU:HG	2.17	0.44
2:I:2749:GLU:OE2	2:I:2749:GLU:N	2.46	0.44
2:I:3037:GLU:OE2	2:I:3078:ARG:NH2	2.50	0.44
2:I:3409:TYR:OH	2:I:3441:ILE:HG21	2.16	0.44
2:I:3916:ILE:O	2:I:3920:VAL:HG23	2.17	0.44
2:I:4080:TYR:HD2	2:I:4096:ALA:HA	1.81	0.44
2:A:1433:TYR:CE1	2:A:1573:MET:HB2	2.52	0.44
2:A:1433:TYR:CE2	2:A:1578:ALA:HB2	2.51	0.44
2:A:1733:GLU:OE1	2:A:1733:GLU:N	2.51	0.44
2:A:2285:GLU:HG2	2:A:2286:LEU:N	2.33	0.44
2:A:2478:THR:HB	2:A:2487:GLN:H	1.82	0.44
2:A:2821:TRP:CD1	2:A:2939:ARG:HG3	2.53	0.44
2:A:4214:LYS:HD3	2:A:4234:PHE:CZ	2.53	0.44
2:A:4986:ALA:HB1	2:A:4990:PHE:CZ	2.52	0.44
2:G:2285:GLU:HG2	2:G:2286:LEU:N	2.33	0.44
2:G:4148:THR:O	2:G:4151:SER:N	2.51	0.44
2:B:1942:LEU:HD23	2:B:1942:LEU:HA	1.83	0.44
2:B:2534:ALA:HB3	2:B:2588:ARG:HE	1.81	0.44
2:B:2624:ARG:NH2	2:B:2906:VAL:HG21	2.32	0.44
2:B:2821:TRP:CZ3	2:B:2874:MET:HB2	2.53	0.44
2:B:2902:HIS:HB2	2:B:2905:LEU:HB2	1.99	0.44
2:B:3206:LEU:HA	2:B:3246:LEU:CD2	2.42	0.44
2:B:3409:TYR:OH	2:B:3441:ILE:HG21	2.16	0.44
2:B:3984:ARG:NH1	2:B:3986:TRP:HB2	2.29	0.44
2:I:2121:PHE:CZ	2:I:3701:LEU:HB2	2.53	0.44
2:I:2439:GLU:O	2:I:2443:ILE:HG12	2.18	0.44
2:I:2531:ARG:HA	2:I:2588:ARG:NH2	2.26	0.44
2:I:2821:TRP:CZ3	2:I:2874:MET:HB2	2.53	0.44
2:I:3525:CYS:HA	2:I:3595:ARG:HH12	1.81	0.44
2:I:3994:HIS:CE1	2:I:3998:HIS:CE1	3.05	0.44
2:I:5012:LYS:O	2:I:5015:GLN:N	2.51	0.44
2:A:783:PHE:HB2	2:A:787:VAL:HG21	2.00	0.44
2:A:3054:VAL:HG22	2:A:3131:TYR:CG	2.52	0.44
2:A:3071:LEU:O	2:A:3075:LEU:N	2.51	0.44
2:A:4175:ARG:HA	2:A:4178:LEU:HG	2.00	0.44
2:A:4923:PHE:HA	2:A:4927:ILE:HD11	1.99	0.44
2:G:426:ARG:HB3	2:G:431:PRO:HA	1.99	0.44
2:G:971:ASP:N	2:G:971:ASP:OD1	2.51	0.44
2:G:1221:GLU:N	2:G:1221:GLU:OE1	2.50	0.44
2:G:2273:LEU:HD21	2:G:2331:TYR:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2647:HIS:O	2:G:2651:CYS:N	2.34	0.44
2:G:2912:THR:O	2:G:2916:LYS:N	2.46	0.44
2:G:3050:VAL:HG13	2:G:3050:VAL:O	2.17	0.44
2:G:3143:LEU:O	2:G:3147:ILE:HG12	2.18	0.44
2:G:3534:MET:HA	2:G:3537:LYS:HD3	1.99	0.44
2:G:3889:GLN:HG3	2:G:3967:GLU:HG2	1.98	0.44
2:G:4112:LEU:O	2:G:4115:SER:OG	2.29	0.44
2:B:418:LEU:HD13	2:B:493:ARG:HB3	1.98	0.44
2:B:3054:VAL:HG22	2:B:3131:TYR:CG	2.52	0.44
2:B:3889:GLN:HG3	2:B:3967:GLU:HG2	1.98	0.44
2:B:3994:HIS:CE1	2:B:3998:HIS:CE1	3.05	0.44
2:B:4214:LYS:HD3	2:B:4234:PHE:CZ	2.53	0.44
2:B:4844:LEU:HD11	2:B:4924:VAL:HG13	1.97	0.44
2:B:5012:LYS:O	2:B:5015:GLN:N	2.51	0.44
2:I:392:ARG:HD2	2:I:393:CYS:H	1.82	0.44
2:I:883:ALA:HA	2:I:904:HIS:CE1	2.52	0.44
2:I:2467:VAL:HG12	2:I:2521:VAL:HG22	2.00	0.44
2:I:2750[B]:LYS:O	2:I:2935:TYR:OH	2.31	0.44
2:I:3143:LEU:O	2:I:3147:ILE:HG12	2.18	0.44
2:I:3531:ASP:OD1	2:I:3532:LEU:N	2.46	0.44
2:I:4967:TYR:HD2	2:I:4968:PHE:CE1	2.36	0.44
1:F:26:TYR:HD1	1:F:26:TYR:H	1.66	0.44
2:A:418:LEU:HD13	2:A:493:ARG:HB3	1.98	0.44
2:A:2475:GLN:OE1	2:A:2493:SER:OG	2.17	0.44
2:A:2534:ALA:HB3	2:A:2588:ARG:HE	1.81	0.44
2:A:4080:TYR:CE2	2:A:4095:LYS:HB3	2.53	0.44
2:G:1469:VAL:HG23	2:G:1492:CYS:HB3	1.99	0.44
2:G:1820:ARG:HD2	2:G:1820:ARG:HA	1.69	0.44
2:G:3835:LEU:HD12	2:G:3880:PHE:CZ	2.53	0.44
2:G:3903:LEU:HD22	2:G:3915:ILE:HG21	1.98	0.44
2:G:4175:ARG:HH21	2:G:4175:ARG:HG2	1.82	0.44
2:B:104:GLY:N	2:B:150:MET:HB3	2.30	0.44
2:B:317:ARG:HH12	2:B:323:LEU:HA	1.83	0.44
2:B:931:THR:O	2:B:935:LEU:HD13	2.17	0.44
2:B:1433:TYR:CE1	2:B:1573:MET:HB2	2.52	0.44
2:B:1987:SER:OG	2:B:1987:SER:O	2.34	0.44
2:B:2672:LEU:HD23	2:B:2672:LEU:HA	1.85	0.44
2:B:3037:GLU:OE2	2:B:3078:ARG:NH2	2.50	0.44
2:B:4863:TYR:HB2	2:B:4874:MET:CE	2.47	0.44
2:B:4967:TYR:HD2	2:B:4968:PHE:CE1	2.35	0.44
2:I:181:HIS:HA	2:I:198:THR:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2960:LEU:HD22	2:I:3042:LEU:HD11	1.98	0.44
2:I:3019:SER:O	2:I:3036:LYS:NZ	2.42	0.44
2:I:3534:MET:HA	2:I:3537:LYS:HD3	1.99	0.44
2:I:3835:LEU:HD12	2:I:3880:PHE:CZ	2.53	0.44
2:A:67:PHE:HE1	2:A:111:HIS:CD2	2.36	0.44
2:A:378:LEU:HD23	2:A:378:LEU:HA	1.85	0.44
2:A:2624:ARG:O	2:A:2627:VAL:HB	2.18	0.44
2:A:2913:ALA:HA	2:A:2916:LYS:HB2	1.99	0.44
2:A:3534:MET:HA	2:A:3537:LYS:HD3	1.99	0.44
2:A:3958:ALA:O	2:A:3962:PHE:CD2	2.70	0.44
2:A:4737:ILE:HA	2:A:4740:LEU:HD12	1.98	0.44
2:G:459:LEU:HD23	2:G:460:GLN:N	2.33	0.44
2:G:783:PHE:HB2	2:G:787:VAL:HG21	2.00	0.44
2:G:887:ILE:HG12	2:G:958:THR:HG23	1.98	0.44
2:G:1208:VAL:HG12	2:I:3575:LEU:HD21	2.00	0.44
2:G:1433:TYR:CE1	2:G:1573:MET:HB2	2.52	0.44
2:G:1577:ALA:O	2:G:1584:ARG:NE	2.45	0.44
2:G:3983:SER:HB3	2:G:3985:LEU:HD22	2.00	0.44
2:G:4238:CYS:HB3	2:G:4989:MET:HG3	2.00	0.44
2:G:4737:ILE:HA	2:G:4740:LEU:HD12	1.98	0.44
2:B:1733:GLU:OE1	2:B:1733:GLU:N	2.51	0.44
2:B:2273:LEU:HD21	2:B:2331:TYR:HA	2.00	0.44
2:B:4080:TYR:CE2	2:B:4095:LYS:HB3	2.53	0.44
2:I:130:LYS:HA	2:I:130:LYS:HD2	1.69	0.44
2:I:317:ARG:HH12	2:I:323:LEU:HA	1.83	0.44
2:I:515:TRP:CH2	2:I:555:GLU:HG2	2.53	0.44
2:I:971:ASP:OD1	2:I:971:ASP:N	2.51	0.44
2:I:2821:TRP:CD1	2:I:2939:ARG:HG3	2.53	0.44
2:I:3788:GLY:HA2	2:I:3835:LEU:HD22	1.99	0.44
2:I:3889:GLN:HG3	2:I:3967:GLU:HG2	1.98	0.44
2:I:4200:THR:O	2:I:4204:GLN:HG3	2.18	0.44
2:I:4238:CYS:HB3	2:I:4989:MET:HG3	2.00	0.44
2:A:459:LEU:HD23	2:A:460:GLN:N	2.33	0.44
2:A:2381:GLU:HA	2:A:2384:ILE:HG13	1.99	0.44
2:A:2439:GLU:O	2:A:2443:ILE:HG12	2.18	0.44
2:A:2467:VAL:HG12	2:A:2521:VAL:HG22	2.00	0.44
2:A:3368:ARG:HG3	2:A:3368:ARG:HH11	1.82	0.44
2:A:4148:THR:O	2:A:4151:SER:N	2.51	0.44
2:A:4863:TYR:HB2	2:A:4874:MET:CE	2.46	0.44
2:G:317:ARG:HH12	2:G:323:LEU:HA	1.83	0.44
2:G:636:ASN:HB2	2:G:702:TRP:CZ3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:931:THR:O	2:G:935:LEU:HD13	2.17	0.44
2:G:2121:PHE:CZ	2:G:3701:LEU:HB2	2.53	0.44
2:G:2694:GLU:O	2:G:2698:MET:HG3	2.17	0.44
2:G:3842:LEU:HD12	2:G:3954:ALA:HB2	2.00	0.44
2:G:4999:ASP:OD2	2:G:5002:GLU:N	2.49	0.44
2:B:426:ARG:HB3	2:B:431:PRO:HA	1.99	0.44
2:B:459:LEU:HD23	2:B:460:GLN:N	2.33	0.44
2:B:909:ASN:ND2	2:B:912:SER:OG	2.50	0.44
2:B:1147:ASP:HB3	2:B:1164:LEU:HD11	1.98	0.44
2:B:2285:GLU:HG2	2:B:2286:LEU:N	2.33	0.44
2:B:2475:GLN:OE1	2:B:2493:SER:OG	2.17	0.44
2:B:3071:LEU:O	2:B:3075:LEU:N	2.51	0.44
2:B:4066:LEU:HD11	2:B:4173:TYR:HB3	1.98	0.44
2:I:418:LEU:HD13	2:I:493:ARG:HB3	1.98	0.44
2:I:816:LEU:HD21	2:I:851:PHE:HE2	1.82	0.44
2:I:1634:LEU:HD12	2:I:1634:LEU:HA	1.79	0.44
2:I:2478:THR:HB	2:I:2487:GLN:H	1.82	0.44
2:I:3054:VAL:HG22	2:I:3131:TYR:CG	2.52	0.44
2:I:3368:ARG:NH2	2:I:3401:LEU:HA	2.33	0.44
2:I:3877:ASP:N	2:I:3877:ASP:OD2	2.48	0.44
2:I:3983:SER:HB3	2:I:3985:LEU:HD22	2.00	0.44
2:A:839:LEU:O	2:A:1194:LEU:HD22	2.17	0.44
2:A:3143:LEU:O	2:A:3147:ILE:HG12	2.18	0.44
2:A:3835:LEU:HD12	2:A:3880:PHE:CZ	2.53	0.44
2:A:4967:TYR:HD2	2:A:4968:PHE:CE1	2.35	0.44
2:G:590:LEU:HG	2:G:599:VAL:HG11	1.99	0.44
2:G:959:TYR:CG	2:G:960:MET:N	2.85	0.44
2:G:2439:GLU:O	2:G:2443:ILE:HG12	2.18	0.44
2:G:3368:ARG:HH11	2:G:3368:ARG:HG3	1.82	0.44
2:G:3389:GLU:OE2	2:G:3392:LEU:HD12	2.17	0.44
2:G:4083:ASP:HB2	2:G:4122:MET:HE3	1.99	0.44
2:G:4967:TYR:HD2	2:G:4968:PHE:CE1	2.35	0.44
2:B:206:CYS:HB2	2:B:271:GLY:HA3	1.99	0.44
2:B:3668:SER:O	2:B:3668:SER:OG	2.27	0.44
2:B:3835:LEU:HD12	2:B:3880:PHE:CZ	2.53	0.44
2:B:4157:ASP:N	2:B:4161:ARG:NH1	2.62	0.44
2:B:4892:ARG:HA	2:I:4921:PHE:CE2	2.53	0.44
2:I:667:MET:HG3	2:I:743:VAL:HG22	2.00	0.44
2:I:2624:ARG:O	2:I:2627:VAL:HB	2.17	0.44
2:I:2625:ARG:HA	2:I:2628:PHE:CE1	2.53	0.44
2:I:2976:HIS:O	2:I:2980:VAL:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3323:ILE:HG23	2:I:3335:MET:HE1	2.00	0.44
2:I:3998:HIS:O	2:I:3999:MET:C	2.57	0.44
2:A:25:SER:OG	2:A:32:GLN:NE2	2.51	0.43
2:A:206:CYS:HB2	2:A:271:GLY:HA3	1.99	0.43
2:A:1152:MET:HB3	2:A:1223:PHE:CE2	2.53	0.43
2:A:3050:VAL:O	2:A:3050:VAL:HG13	2.17	0.43
2:A:3436:ARG:NE	2:A:3598:GLU:OE1	2.30	0.43
2:G:232:THR:OG1	2:G:248:GLU:OE2	2.30	0.43
2:G:353:SER:O	2:G:355:LEU:N	2.51	0.43
2:G:418:LEU:HD13	2:G:493:ARG:HB3	1.98	0.43
2:G:2381:GLU:HA	2:G:2384:ILE:HG13	1.99	0.43
2:G:4157:ASP:N	2:G:4161:ARG:NH1	2.62	0.43
2:B:590:LEU:HG	2:B:599:VAL:HG11	1.99	0.43
2:B:615:ARG:NH2	2:B:2168:VAL:HG21	2.28	0.43
2:B:2816:MET:CE	2:B:2823:ILE:HG12	2.47	0.43
2:B:3143:LEU:O	2:B:3147:ILE:HG12	2.18	0.43
2:B:3372:VAL:HG11	2:B:3397:GLU:OE1	2.17	0.43
2:B:3534:MET:HA	2:B:3537:LYS:HD3	1.99	0.43
2:B:3788:GLY:HA2	2:B:3835:LEU:HD22	1.99	0.43
2:B:4953:ASP:HA	2:B:4956:THR:HG22	2.00	0.43
2:I:636:ASN:HB2	2:I:702:TRP:CZ3	2.53	0.43
2:I:931:THR:O	2:I:935:LEU:HD13	2.17	0.43
2:I:2299:VAL:HG11	2:I:2356:LEU:HG	1.99	0.43
2:I:2816:MET:CE	2:I:2823:ILE:HG12	2.47	0.43
2:I:3859:VAL:O	2:I:3859:VAL:HG13	2.18	0.43
2:A:392:ARG:HD2	2:A:393:CYS:H	1.82	0.43
2:A:636:ASN:HB2	2:A:702:TRP:CZ3	2.53	0.43
2:A:883:ALA:HA	2:A:904:HIS:CE1	2.52	0.43
2:A:1208:VAL:HG12	2:G:3575:LEU:HD21	2.00	0.43
2:A:2273:LEU:HD21	2:A:2331:TYR:HA	2.00	0.43
2:A:3859:VAL:O	2:A:3859:VAL:HG13	2.18	0.43
2:G:392:ARG:HD2	2:G:393:CYS:H	1.82	0.43
2:G:682:LEU:HA	2:G:782:SER:O	2.18	0.43
2:G:935:LEU:HD11	2:G:991:ASN:ND2	2.33	0.43
2:G:1972:ASN:OD1	2:G:1973:GLN:N	2.51	0.43
2:G:2159:LEU:O	2:G:2163:ARG:HG2	2.18	0.43
2:G:3527:PRO:HA	2:G:3530:GLN:NE2	2.32	0.43
2:G:3825:GLU:HG3	2:G:3827:GLY:H	1.83	0.43
2:G:4083:ASP:HB2	2:G:4122:MET:CE	2.47	0.43
2:B:607:CYS:SG	2:B:1672:ALA:HB1	2.58	0.43
2:B:1469:VAL:HG23	2:B:1492:CYS:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2599:GLN:O	2:B:2603:ILE:HG13	2.18	0.43
2:B:3018:LEU:HA	2:B:3036:LYS:HE3	2.01	0.43
2:B:3368:ARG:NH2	2:B:3401:LEU:HA	2.33	0.43
2:B:3946:GLN:O	2:B:3949:ARG:HD3	2.17	0.43
2:B:4201:ASN:HB3	2:B:4993:MET:CE	2.48	0.43
2:I:67:PHE:HE1	2:I:111:HIS:CD2	2.36	0.43
2:I:462:GLU:HG2	2:I:463:GLU:OE2	2.18	0.43
2:I:682:LEU:HA	2:I:782:SER:O	2.18	0.43
2:I:2285:GLU:HG2	2:I:2286:LEU:N	2.33	0.43
2:I:2928:LYS:O	2:I:2932:MET:HG2	2.18	0.43
2:I:4080:TYR:CE2	2:I:4095:LYS:HB3	2.53	0.43
2:I:4686:LEU:HD12	2:I:4690:GLU:OE2	2.18	0.43
2:I:4953:ASP:HA	2:I:4956:THR:HG22	2.00	0.43
2:I:4986:ALA:HB1	2:I:4990:PHE:CZ	2.52	0.43
2:A:819:GLU:OE1	2:A:819:GLU:N	2.51	0.43
2:A:3007:ASN:HA	2:A:3070:ILE:HD11	2.00	0.43
2:A:3842:LEU:HD12	2:A:3954:ALA:HB2	1.99	0.43
2:A:3983:SER:HB3	2:A:3985:LEU:HD22	2.00	0.43
2:A:4983:HIS:HB2	3:A:5301:ATP:N6	2.10	0.43
2:A:5027:CYS:H	2:A:5030:LYS:HB3	1.83	0.43
2:G:839:LEU:O	2:G:1194:LEU:HD22	2.17	0.43
2:G:2531:ARG:HA	2:G:2588:ARG:NH2	2.26	0.43
2:G:2960:LEU:HD22	2:G:3042:LEU:HD11	1.98	0.43
2:G:3046:LEU:O	2:G:3050:VAL:N	2.49	0.43
2:G:3269:VAL:O	2:G:3273:THR:N	2.51	0.43
2:G:3368:ARG:NH2	2:G:3401:LEU:HA	2.33	0.43
2:G:4175:ARG:HA	2:G:4178:LEU:HG	2.00	0.43
2:G:4978:HIS:CE1	2:G:4982:GLU:OE1	2.71	0.43
2:G:5027:CYS:H	2:G:5030:LYS:HB3	1.84	0.43
2:B:67:PHE:HE1	2:B:111:HIS:CD2	2.36	0.43
2:B:860:GLN:OE1	2:B:860:GLN:N	2.52	0.43
2:B:2821:TRP:CD1	2:B:2939:ARG:HG3	2.53	0.43
2:B:2825:LYS:HG2	2:B:2935:TYR:CZ	2.54	0.43
2:B:3215:ALA:O	2:B:3221:THR:OG1	2.20	0.43
2:B:3641:LEU:HD13	2:B:3641:LEU:HA	1.91	0.43
2:B:3983:SER:HB3	2:B:3985:LEU:HD22	2.00	0.43
2:B:4083:ASP:HB2	2:B:4122:MET:CE	2.47	0.43
2:B:5027:CYS:H	2:B:5030:LYS:HB3	1.84	0.43
2:I:887:ILE:HG12	2:I:958:THR:HG23	1.98	0.43
2:I:2825:LYS:HG2	2:I:2935:TYR:CZ	2.53	0.43
2:I:2967:MET:HE1	2:I:3045:LYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3545:THR:O	2:I:3549:VAL:HG22	2.18	0.43
2:I:4148:THR:O	2:I:4151:SER:N	2.51	0.43
2:I:5027:CYS:H	2:I:5030:LYS:HB3	1.84	0.43
2:A:515:TRP:CH2	2:A:555:GLU:HG2	2.53	0.43
2:A:590:LEU:HG	2:A:599:VAL:HG11	1.99	0.43
2:A:607:CYS:SG	2:A:1672:ALA:HB1	2.58	0.43
2:A:860:GLN:OE1	2:A:860:GLN:N	2.52	0.43
2:A:935:LEU:HD11	2:A:991:ASN:ND2	2.33	0.43
2:A:1720:LEU:O	2:A:1722:SER:N	2.47	0.43
2:A:2159:LEU:O	2:A:2163:ARG:HG2	2.18	0.43
2:A:2616:PRO:HD3	2:A:2650:ARG:HH22	1.84	0.43
2:A:2821:TRP:CZ3	2:A:2874:MET:HB2	2.53	0.43
2:A:3018:LEU:HA	2:A:3036:LYS:HE3	2.00	0.43
2:A:3283:ARG:NH2	2:A:3287:ARG:HH22	2.10	0.43
2:A:4586:PRO:HG3	2:A:4629:TYR:CE1	2.54	0.43
1:H:23:VAL:CG2	1:H:105:ASN:H	2.32	0.43
1:O:26:TYR:H	1:O:26:TYR:HD1	1.66	0.43
2:G:231:LEU:O	2:G:260:TRP:NE1	2.45	0.43
2:G:551:LEU:HD23	2:G:551:LEU:HA	1.83	0.43
2:G:2625:ARG:HA	2:G:2628:PHE:CE1	2.53	0.43
2:G:2913:ALA:HA	2:G:2916:LYS:HB2	1.99	0.43
2:G:3071:LEU:O	2:G:3075:LEU:N	2.51	0.43
2:G:4058:ILE:HA	2:G:4061:PHE:CD1	2.54	0.43
2:G:5012:LYS:O	2:G:5015:GLN:N	2.51	0.43
2:B:462:GLU:HG2	2:B:463:GLU:OE2	2.18	0.43
2:B:2439:GLU:O	2:B:2443:ILE:HG12	2.18	0.43
2:B:2616:PRO:HD3	2:B:2650:ARG:HH22	1.84	0.43
2:B:3007:ASN:HA	2:B:3070:ILE:HD11	2.00	0.43
2:B:3768:SER:HA	2:B:3771:HIS:HB3	2.01	0.43
2:B:4983:HIS:HB2	3:B:5301:ATP:N6	2.10	0.43
2:I:607:CYS:SG	2:I:1672:ALA:HB1	2.58	0.43
2:I:1738:LEU:HB3	2:I:1963:GLU:OE2	2.19	0.43
2:I:2298:VAL:HG21	2:I:2334:PHE:CD1	2.54	0.43
2:I:2641:LEU:HD11	2:I:2698:MET:SD	2.59	0.43
2:I:3050:VAL:O	2:I:3050:VAL:HG13	2.17	0.43
2:I:3070:ILE:O	2:I:3074:SER:N	2.46	0.43
2:I:3352:GLU:OE1	2:I:3352:GLU:N	2.41	0.43
2:I:3368:ARG:HG3	2:I:3368:ARG:HH11	1.83	0.43
2:I:3374:ALA:O	2:I:3377:GLU:N	2.51	0.43
2:I:4058:ILE:HA	2:I:4061:PHE:CD1	2.54	0.43
2:A:931:THR:O	2:A:935:LEU:HD13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1297:PHE:HE1	2:A:1548:LEU:HD12	1.84	0.43
2:A:1732:SER:O	2:A:1732:SER:OG	2.30	0.43
2:A:3283:ARG:O	2:A:3287:ARG:NE	2.52	0.43
2:A:3368:ARG:NH2	2:A:3401:LEU:HA	2.33	0.43
2:A:4058:ILE:HA	2:A:4061:PHE:CD1	2.54	0.43
2:A:4184:MET:HB3	2:A:5021:PHE:HA	2.01	0.43
2:G:515:TRP:CH2	2:G:555:GLU:HG2	2.53	0.43
2:G:1733:GLU:N	2:G:1733:GLU:OE1	2.51	0.43
2:G:1738:LEU:HB3	2:G:1963:GLU:OE2	2.19	0.43
2:G:3158:LEU:O	2:G:3162:GLN:NE2	2.50	0.43
2:G:3545:THR:O	2:G:3549:VAL:HG22	2.18	0.43
2:G:4201:ASN:HB3	2:G:4993:MET:CE	2.48	0.43
2:G:4586:PRO:HG3	2:G:4629:TYR:CE1	2.54	0.43
2:G:4939:ALA:O	2:G:4943:LEU:HD23	2.19	0.43
2:G:4953:ASP:HA	2:G:4956:THR:HG22	2.00	0.43
2:B:353:SER:O	2:B:355:LEU:N	2.51	0.43
2:B:935:LEU:HD11	2:B:991:ASN:ND2	2.33	0.43
2:B:1972:ASN:OD1	2:B:1973:GLN:N	2.52	0.43
2:B:2624:ARG:O	2:B:2627:VAL:HB	2.18	0.43
2:B:2625:ARG:HA	2:B:2628:PHE:CE1	2.54	0.43
2:B:2641:LEU:HD11	2:B:2698:MET:SD	2.58	0.43
2:B:2743:LEU:HD12	2:B:2743:LEU:H	1.83	0.43
2:B:3545:THR:O	2:B:3549:VAL:HG22	2.18	0.43
2:B:3825:GLU:HG3	2:B:3827:GLY:H	1.83	0.43
2:I:2024:PRO:HB2	2:I:2026:ASP:OD1	2.18	0.43
2:I:3036:LYS:HD2	2:I:3078:ARG:HD3	2.01	0.43
2:I:3380:ARG:NH2	2:I:3388:GLU:OE1	2.52	0.43
2:I:3842:LEU:HD12	2:I:3954:ALA:HB2	1.99	0.43
2:A:743:VAL:HG11	2:A:801:LYS:HB2	2.01	0.43
2:A:867:LEU:HG	2:A:929:LEU:HD13	2.00	0.43
2:A:870:ILE:O	2:A:874:LEU:HG	2.19	0.43
2:A:949:ASN:HB3	2:A:974:HIS:HE2	1.84	0.43
2:A:1137:GLU:OE1	2:A:1137:GLU:N	2.52	0.43
2:A:1469:VAL:HG23	2:A:1492:CYS:HB3	1.99	0.43
2:A:1738:LEU:HB3	2:A:1963:GLU:OE2	2.19	0.43
2:A:3637:ARG:HD2	2:A:3638:MET:H	1.84	0.43
2:A:4200:THR:O	2:A:4204:GLN:HG3	2.18	0.43
2:A:4939:ALA:O	2:A:4943:LEU:HD23	2.18	0.43
1:J:23:VAL:CG2	1:J:105:ASN:H	2.32	0.43
1:O:23:VAL:CG2	1:O:105:ASN:H	2.32	0.43
2:G:431:PRO:HB3	2:G:507:ALA:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:819:GLU:N	2:G:819:GLU:OE1	2.51	0.43
2:G:2599:GLN:O	2:G:2603:ILE:HG13	2.18	0.43
2:G:2825:LYS:HG2	2:G:2935:TYR:CZ	2.53	0.43
2:G:3036:LYS:HD2	2:G:3078:ARG:HD3	2.01	0.43
2:G:3540:TYR:CE2	2:G:3549:VAL:HG11	2.54	0.43
2:B:664:PHE:CE1	2:B:779:PRO:HB3	2.53	0.43
2:B:819:GLU:OE1	2:B:819:GLU:N	2.51	0.43
2:B:1137:GLU:OE1	2:B:1137:GLU:N	2.52	0.43
2:B:2121:PHE:CZ	2:B:3701:LEU:HB2	2.53	0.43
2:B:2467:VAL:HG12	2:B:2521:VAL:HG22	2.00	0.43
2:B:3380:ARG:NH2	2:B:3388:GLU:OE1	2.52	0.43
2:B:3903:LEU:HD23	2:B:3903:LEU:HA	1.80	0.43
2:I:459:LEU:HD23	2:I:460:GLN:N	2.33	0.43
2:I:870:ILE:O	2:I:874:LEU:HG	2.19	0.43
2:I:1288:PHE:HA	2:I:1553:PHE:CD1	2.54	0.43
2:I:1733:GLU:OE1	2:I:1733:GLU:N	2.51	0.43
2:I:2599:GLN:O	2:I:2603:ILE:HG13	2.19	0.43
2:I:3018:LEU:HA	2:I:3036:LYS:HE3	2.01	0.43
2:I:3071:LEU:O	2:I:3075:LEU:N	2.51	0.43
2:I:4201:ASN:HB3	2:I:4993:MET:CE	2.48	0.43
2:I:4935:LEU:HD23	2:I:4935:LEU:HA	1.86	0.43
2:I:4983:HIS:HB2	3:I:5301:ATP:N6	2.10	0.43
2:A:134:ASP:OD1	2:A:134:ASP:N	2.50	0.43
2:A:954:LYS:HD2	2:A:967:PRO:HG2	2.00	0.43
2:A:1477:GLY:HA2	2:A:1483:VAL:HA	2.01	0.43
2:A:2478:THR:HG22	2:A:2487:GLN:HB2	2.01	0.43
2:A:2825:LYS:HG2	2:A:2935:TYR:CZ	2.54	0.43
2:A:3540:TYR:CE2	2:A:3549:VAL:HG11	2.54	0.43
2:A:3545:THR:O	2:A:3549:VAL:HG22	2.18	0.43
2:A:3788:GLY:HA2	2:A:3835:LEU:HD22	1.99	0.43
2:A:3825:GLU:HG3	2:A:3827:GLY:H	1.83	0.43
2:A:4180:ARG:NE	2:A:4981:GLU:OE1	2.40	0.43
2:A:4201:ASN:HB3	2:A:4993:MET:CE	2.48	0.43
2:A:4686:LEU:HD12	2:A:4690:GLU:OE2	2.18	0.43
2:G:667:MET:HG3	2:G:743:VAL:HG22	2.00	0.43
2:G:2024:PRO:HB2	2:G:2026:ASP:OD1	2.18	0.43
2:G:2616:PRO:HD3	2:G:2650:ARG:HH22	1.84	0.43
2:G:3998:HIS:O	2:G:3999:MET:C	2.57	0.43
2:G:4646:LEU:HD23	2:G:4646:LEU:HA	1.85	0.43
2:B:431:PRO:HB3	2:B:507:ALA:HA	2.00	0.43
2:B:1738:LEU:HB3	2:B:1963:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2024:PRO:HB2	2:B:2026:ASP:OD1	2.18	0.43
2:B:2758:PHE:HB3	2:B:2809:ILE:HD13	2.00	0.43
2:B:3540:TYR:CE2	2:B:3549:VAL:HG11	2.54	0.43
2:B:3842:LEU:HD12	2:B:3954:ALA:HB2	2.00	0.43
2:B:4148:THR:O	2:B:4151:SER:N	2.51	0.43
2:B:4175:ARG:HA	2:B:4178:LEU:HG	2.00	0.43
2:B:4200:THR:O	2:B:4204:GLN:HG3	2.18	0.43
2:B:4978:HIS:CE1	2:B:4982:GLU:OE1	2.72	0.43
2:I:353:SER:O	2:I:355:LEU:N	2.51	0.43
2:I:2116:LEU:O	2:I:2120:MET:HG3	2.19	0.43
2:I:2758:PHE:HB3	2:I:2809:ILE:HD13	2.00	0.43
2:I:3283:ARG:O	2:I:3287:ARG:NE	2.52	0.43
2:I:3873:LYS:HE3	2:I:3873:LYS:HB3	1.45	0.43
2:I:3901:ASN:HA	2:I:3904:ARG:HH21	1.81	0.43
2:I:4183:ILE:HD12	2:I:4183:ILE:HA	1.88	0.43
2:I:4231:MET:CG	2:I:4959:PHE:HE2	2.32	0.43
2:I:4978:HIS:CE1	2:I:4982:GLU:OE1	2.71	0.43
1:F:23:VAL:CG2	1:F:105:ASN:H	2.32	0.43
2:A:179:TYR:CD2	2:A:197:GLN:HB3	2.54	0.43
2:A:664:PHE:CE1	2:A:779:PRO:HB3	2.54	0.43
2:A:988:LEU:HD12	2:A:988:LEU:HA	1.79	0.43
2:A:2091:PRO:HB2	2:A:2092:GLN:H	1.69	0.43
2:A:2599:GLN:O	2:A:2603:ILE:HG13	2.18	0.43
2:A:2743:LEU:H	2:A:2743:LEU:HD12	1.83	0.43
2:A:2758:PHE:HB3	2:A:2809:ILE:HD13	2.00	0.43
2:A:3445:TRP:HA	2:A:3451:PHE:CD1	2.54	0.43
2:A:3527:PRO:HA	2:A:3530:GLN:NE2	2.32	0.43
2:A:3614:LYS:HE3	2:A:3614:LYS:HB2	1.76	0.43
2:A:3924:LEU:HD23	2:A:3924:LEU:HA	1.89	0.43
2:A:4201:ASN:HB3	2:A:4993:MET:HE3	2.00	0.43
2:G:67:PHE:HE1	2:G:111:HIS:CD2	2.36	0.43
2:G:207:SER:N	2:G:334:MET:HE1	2.32	0.43
2:G:664:PHE:CE1	2:G:779:PRO:HB3	2.54	0.43
2:G:1137:GLU:OE1	2:G:1137:GLU:N	2.52	0.43
2:G:2116:LEU:O	2:G:2120:MET:HG3	2.19	0.43
2:G:2758:PHE:HB3	2:G:2809:ILE:HD13	2.00	0.43
2:G:4231:MET:CG	2:G:4959:PHE:HE2	2.32	0.43
2:G:4849:TYR:HE1	2:I:4578:LEU:CD1	2.28	0.43
2:B:515:TRP:CH2	2:B:555:GLU:HG2	2.53	0.43
2:B:867:LEU:HG	2:B:929:LEU:HD13	2.00	0.43
2:B:924:MET:O	2:B:928:THR:OG1	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:983:THR:HB	2:B:1055:PRO:HG3	2.01	0.43
2:B:3171:SER:O	2:B:3174:SER:OG	2.32	0.43
2:B:3283:ARG:NH2	2:B:3287:ARG:HH22	2.10	0.43
2:B:3637:ARG:HD2	2:B:3638:MET:H	1.84	0.43
2:B:4058:ILE:HA	2:B:4061:PHE:CD1	2.54	0.43
2:B:4686:LEU:HD12	2:B:4690:GLU:OE2	2.18	0.43
2:I:1985:THR:O	2:I:1986:MET:HB3	2.19	0.43
2:I:2124:LEU:HD12	2:I:2124:LEU:HA	1.87	0.43
2:I:2460:LEU:HG	2:I:2461:VAL:HG13	2.01	0.43
2:I:2743:LEU:H	2:I:2743:LEU:HD12	1.83	0.43
2:I:3269:VAL:O	2:I:3273:THR:N	2.51	0.43
2:I:3436:ARG:NE	2:I:3598:GLU:OE1	2.30	0.43
2:I:3540:TYR:CE2	2:I:3549:VAL:HG11	2.54	0.43
2:I:4175:ARG:HA	2:I:4178:LEU:HG	2.00	0.43
2:I:4184:MET:HB3	2:I:5021:PHE:HA	2.01	0.43
2:A:2121:PHE:CZ	2:A:3701:LEU:HB2	2.53	0.43
2:A:2298:VAL:HG21	2:A:2334:PHE:CD1	2.54	0.43
2:A:2625:ARG:HA	2:A:2628:PHE:CE1	2.53	0.43
2:A:2860:PRO:HG3	2:A:2929:PHE:HE1	1.84	0.43
2:A:3008:GLN:HG2	2:A:3012:ASN:ND2	2.34	0.43
2:A:3157:ILE:O	2:A:3162:GLN:HG3	2.19	0.43
2:A:3281:LEU:N	2:A:3282:PRO:HD2	2.34	0.43
2:A:3641:LEU:HD13	2:A:3644:LEU:HD12	2.01	0.43
2:A:3951:PHE:CD2	2:A:4012:LEU:HD21	2.49	0.43
2:A:4921:PHE:CE2	2:G:4892:ARG:HA	2.54	0.43
2:G:462:GLU:HG2	2:G:463:GLU:OE2	2.18	0.43
2:G:607:CYS:SG	2:G:1672:ALA:HB1	2.58	0.43
2:G:2362:GLU:HB2	2:G:2369:ARG:NH2	2.34	0.43
2:G:2467:VAL:HG12	2:G:2521:VAL:HG22	2.00	0.43
2:G:2928:LYS:O	2:G:2932:MET:HG2	2.18	0.43
2:G:3007:ASN:HA	2:G:3070:ILE:HD11	2.00	0.43
2:G:3070:ILE:O	2:G:3074:SER:N	2.46	0.43
2:G:4093:PHE:CG	2:G:4123:ILE:HD11	2.54	0.43
2:G:4214:LYS:HD3	2:G:4234:PHE:CZ	2.53	0.43
2:G:4686:LEU:HD12	2:G:4690:GLU:OE2	2.18	0.43
2:B:667:MET:HG3	2:B:743:VAL:HG22	2.01	0.43
2:B:2018:GLU:OE1	2:B:2018:GLU:N	2.49	0.43
2:B:2116:LEU:O	2:B:2120:MET:HG3	2.19	0.43
2:B:2928:LYS:O	2:B:2932:MET:HG2	2.18	0.43
2:B:3050:VAL:HG13	2:B:3050:VAL:O	2.17	0.43
2:B:3998:HIS:O	2:B:3999:MET:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:25:SER:OG	2:I:32:GLN:NE2	2.51	0.43
2:I:104:GLY:N	2:I:150:MET:HB3	2.30	0.43
2:I:867:LEU:HG	2:I:929:LEU:HD13	2.00	0.43
2:I:2259:GLU:HB3	2:I:2297:LYS:HZ1	1.84	0.43
2:I:3132:THR:HG23	2:I:3136:LEU:HB2	2.01	0.43
2:I:3157:ILE:O	2:I:3162:GLN:HG3	2.19	0.43
2:I:3768:SER:HA	2:I:3771:HIS:HB3	2.01	0.43
2:I:4093:PHE:CG	2:I:4123:ILE:HD11	2.54	0.43
2:I:4586:PRO:HG3	2:I:4629:TYR:CE1	2.54	0.43
2:I:4922:PHE:O	2:I:4927:ILE:HG12	2.19	0.43
2:A:233:ILE:O	2:A:257:ARG:NH1	2.41	0.43
2:A:1972:ASN:OD1	2:A:1973:GLN:N	2.51	0.43
2:A:2024:PRO:HB2	2:A:2026:ASP:OD1	2.18	0.43
2:A:2116:LEU:O	2:A:2120:MET:HG3	2.19	0.43
2:A:2452:ARG:NH2	2:B:144:GLU:OE2	2.45	0.43
2:A:3069:HIS:NE2	2:A:3138:PRO:HB2	2.34	0.43
2:A:3751:VAL:O	2:A:3756:LYS:NZ	2.37	0.43
2:A:4995:LEU:HD21	2:A:5007:GLU:HG3	2.01	0.43
2:G:867:LEU:HG	2:G:929:LEU:HD13	2.00	0.43
2:G:954:LYS:HD2	2:G:967:PRO:HG2	2.00	0.43
2:G:1152:MET:HB3	2:G:1223:PHE:CE2	2.53	0.43
2:G:2298:VAL:HG21	2:G:2334:PHE:CD1	2.54	0.43
2:G:2478:THR:HG22	2:G:2487:GLN:HB2	2.01	0.43
2:G:3018:LEU:HA	2:G:3036:LYS:HE3	2.01	0.43
2:G:3157:ILE:O	2:G:3162:GLN:HG3	2.19	0.43
2:G:4080:TYR:CE2	2:G:4095:LYS:HB3	2.53	0.43
2:G:4200:THR:O	2:G:4204:GLN:HG3	2.18	0.43
2:B:1288:PHE:HA	2:B:1553:PHE:CD1	2.54	0.43
2:B:2381:GLU:HA	2:B:2384:ILE:HG13	1.99	0.43
2:B:3158:LEU:O	2:B:3162:GLN:NE2	2.50	0.43
2:B:3847:PHE:HZ	2:B:3943:ILE:HD11	1.84	0.43
2:B:4586:PRO:HG3	2:B:4629:TYR:CE1	2.54	0.43
2:I:144:GLU:HG3	2:I:175:SER:HA	2.01	0.43
2:I:207:SER:H	2:I:334:MET:HE1	1.82	0.43
2:I:431:PRO:HB3	2:I:507:ALA:HA	2.00	0.43
2:I:1152:MET:HB3	2:I:1223:PHE:CE2	2.53	0.43
2:I:3007:ASN:HA	2:I:3070:ILE:HD11	2.00	0.43
2:I:3016:TYR:O	2:I:3019:SER:OG	2.23	0.43
2:I:3281:LEU:N	2:I:3282:PRO:HD2	2.34	0.43
2:I:3372:VAL:HG11	2:I:3397:GLU:OE1	2.17	0.43
2:I:3525:CYS:HA	2:I:3595:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3825:GLU:HG3	2:I:3827:GLY:H	1.83	0.43
2:I:3923:LEU:HD11	2:I:3962:PHE:CZ	2.54	0.43
2:I:4214:LYS:HD3	2:I:4234:PHE:CZ	2.53	0.43
2:I:4939:ALA:O	2:I:4943:LEU:HD23	2.19	0.43
2:I:4995:LEU:HD21	2:I:5007:GLU:HG3	2.01	0.43
2:A:973:SER:HA	2:A:976:ARG:HH22	1.84	0.42
2:A:1288:PHE:HA	2:A:1553:PHE:CD1	2.54	0.42
2:A:2460:LEU:HG	2:A:2461:VAL:HG13	2.01	0.42
2:A:2712:PRO:HB3	2:A:2956:ALA:HB2	2.01	0.42
2:A:3342:ALA:O	2:A:3345:ILE:HG22	2.19	0.42
2:A:4241:THR:HA	2:A:4244:GLU:OE1	2.19	0.42
2:G:743:VAL:HG11	2:G:801:LYS:HB2	2.01	0.42
2:G:870:ILE:O	2:G:874:LEU:HG	2.19	0.42
2:G:983:THR:HB	2:G:1055:PRO:HG3	2.01	0.42
2:G:1248:VAL:HG23	2:G:1597:VAL:O	2.19	0.42
2:G:1595:LEU:HD12	2:G:1595:LEU:HA	1.78	0.42
2:G:2001:PRO:O	2:G:2005:GLN:HG3	2.19	0.42
2:G:2460:LEU:HG	2:G:2461:VAL:HG13	2.01	0.42
2:G:2860:PRO:HG3	2:G:2929:PHE:HE1	1.84	0.42
2:G:3069:HIS:NE2	2:G:3138:PRO:HB2	2.34	0.42
2:G:3281:LEU:N	2:G:3282:PRO:HD2	2.34	0.42
2:G:3445:TRP:HA	2:G:3451:PHE:CD1	2.54	0.42
2:G:3641:LEU:HD13	2:G:3644:LEU:HD12	2.01	0.42
2:G:3859:VAL:O	2:G:3859:VAL:HG13	2.18	0.42
2:G:4180:ARG:NE	2:G:4981:GLU:OE1	2.40	0.42
2:G:4922:PHE:O	2:G:4927:ILE:HG12	2.19	0.42
2:B:25:SER:OG	2:B:32:GLN:NE2	2.51	0.42
2:B:971:ASP:N	2:B:971:ASP:OD1	2.51	0.42
2:B:1297:PHE:HE1	2:B:1548:LEU:HD12	1.83	0.42
2:B:1595:LEU:HD12	2:B:1595:LEU:HA	1.78	0.42
2:I:179:TYR:CD2	2:I:197:GLN:HB3	2.54	0.42
2:I:2362:GLU:HB2	2:I:2369:ARG:NH2	2.34	0.42
2:I:2478:THR:HG22	2:I:2487:GLN:HB2	2.01	0.42
2:I:3008:GLN:HG2	2:I:3012:ASN:ND2	2.34	0.42
2:I:3637:ARG:HD2	2:I:3638:MET:H	1.84	0.42
2:I:4112:LEU:O	2:I:4115:SER:OG	2.29	0.42
2:A:104:GLY:N	2:A:150:MET:HB3	2.30	0.42
2:A:163:VAL:HG23	2:A:163:VAL:O	2.19	0.42
2:A:317:ARG:HH12	2:A:323:LEU:HA	1.83	0.42
2:A:431:PRO:HB3	2:A:507:ALA:HA	2.00	0.42
2:A:462:GLU:HG2	2:A:463:GLU:OE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1442:GLY:O	2:A:1557:THR:OG1	2.30	0.42
2:A:2579:VAL:O	2:A:2583:LEU:HG	2.19	0.42
2:A:2928:LYS:O	2:A:2932:MET:HG2	2.18	0.42
2:A:4093:PHE:CG	2:A:4123:ILE:HD11	2.54	0.42
2:A:4978:HIS:CE1	2:A:4982:GLU:OE1	2.71	0.42
2:A:4984:ASN:C	2:A:4986:ALA:H	2.23	0.42
2:A:4999:ASP:OD2	2:A:5002:GLU:N	2.49	0.42
2:A:5012:LYS:O	2:A:5015:GLN:N	2.51	0.42
2:G:860:GLN:OE1	2:G:860:GLN:N	2.52	0.42
2:G:2579:VAL:O	2:G:2583:LEU:HG	2.19	0.42
2:G:2641:LEU:HD11	2:G:2698:MET:SD	2.59	0.42
2:G:2711:PRO:HA	2:G:2712:PRO:HD3	1.89	0.42
2:G:3283:ARG:NH2	2:G:3287:ARG:HH22	2.10	0.42
2:G:3901:ASN:HA	2:G:3904:ARG:HH21	1.81	0.42
2:G:3923:LEU:HD11	2:G:3962:PHE:CZ	2.54	0.42
2:B:973:SER:HA	2:B:976:ARG:HH22	1.85	0.42
2:B:2159:LEU:O	2:B:2163:ARG:HG2	2.18	0.42
2:B:2298:VAL:HG21	2:B:2334:PHE:CD1	2.54	0.42
2:B:2460:LEU:HG	2:B:2461:VAL:HG13	2.01	0.42
2:B:2477:PRO:HD2	2:B:2536:LEU:HD11	2.01	0.42
2:B:3157:ILE:O	2:B:3162:GLN:HG3	2.19	0.42
2:B:3281:LEU:N	2:B:3282:PRO:HD2	2.34	0.42
2:B:3859:VAL:O	2:B:3859:VAL:HG13	2.18	0.42
2:B:4231:MET:CG	2:B:4959:PHE:HE2	2.32	0.42
2:I:163:VAL:HG23	2:I:163:VAL:O	2.19	0.42
2:I:819:GLU:OE1	2:I:819:GLU:N	2.51	0.42
2:I:860:GLN:OE1	2:I:860:GLN:N	2.52	0.42
2:I:988:LEU:HD12	2:I:988:LEU:HA	1.79	0.42
2:I:1137:GLU:OE1	2:I:1137:GLU:N	2.52	0.42
2:I:1290:ARG:HD2	2:I:1549:PHE:CD2	2.55	0.42
2:I:3170:CYS:SG	2:I:3240:CYS:HB2	2.60	0.42
2:I:3542:LEU:O	2:I:3542:LEU:HD23	2.19	0.42
2:I:3641:LEU:HD13	2:I:3644:LEU:HD12	2.00	0.42
2:A:1595:LEU:HD12	2:A:1595:LEU:HA	1.78	0.42
2:A:2233:CYS:SG	2:A:2270:SER:OG	2.56	0.42
2:A:2653:LYS:O	2:A:2657:LEU:HB2	2.20	0.42
2:A:2692:ASP:CG	2:A:2695:LEU:HB2	2.40	0.42
2:A:3036:LYS:HD2	2:A:3078:ARG:HD3	2.01	0.42
2:A:3274:LEU:HB3	2:A:3275:PRO:HD3	2.01	0.42
2:A:4238:CYS:HB3	2:A:4989:MET:HG3	2.00	0.42
2:A:4884:LEU:HD11	2:B:4914:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:973:SER:HA	2:G:976:ARG:HH22	1.84	0.42
2:G:1288:PHE:HA	2:G:1553:PHE:CD1	2.54	0.42
2:G:1297:PHE:HE1	2:G:1548:LEU:HD12	1.83	0.42
2:G:1586:ASN:ND2	2:G:1590:GLN:OE1	2.53	0.42
2:G:2692:ASP:CG	2:G:2695:LEU:HB2	2.40	0.42
2:G:3170:CYS:SG	2:G:3240:CYS:HB2	2.60	0.42
2:G:3283:ARG:O	2:G:3287:ARG:NE	2.52	0.42
2:G:3374:ALA:O	2:G:3377:GLU:N	2.51	0.42
2:G:3380:ARG:NH2	2:G:3388:GLU:OE1	2.52	0.42
2:G:3531:ASP:OD1	2:G:3532:LEU:N	2.46	0.42
2:G:3696:ASP:CG	2:G:3773:ARG:HE	2.23	0.42
2:G:3847:PHE:HZ	2:G:3943:ILE:HD11	1.84	0.42
2:G:4713:SER:HB3	2:G:4775:TYR:OH	2.19	0.42
2:G:4933:GLN:O	2:G:4937:ILE:HG12	2.20	0.42
2:B:498:THR:HA	2:B:553:ARG:HH22	1.84	0.42
2:B:636:ASN:HB2	2:B:702:TRP:CZ3	2.53	0.42
2:B:743:VAL:HG11	2:B:801:LYS:HB2	2.01	0.42
2:B:954:LYS:HD2	2:B:967:PRO:HG2	2.00	0.42
2:B:1152:MET:HB3	2:B:1223:PHE:CE2	2.53	0.42
2:B:1290:ARG:HD2	2:B:1549:PHE:CD2	2.55	0.42
2:B:1469:VAL:CG2	2:B:1492:CYS:HB3	2.50	0.42
2:B:1985:THR:O	2:B:1986:MET:HB3	2.19	0.42
2:B:2822:THR:OG1	2:B:2938:THR:OG1	2.36	0.42
2:B:3283:ARG:O	2:B:3287:ARG:NE	2.52	0.42
2:B:3991:GLY:O	2:B:3995:VAL:HG23	2.19	0.42
2:B:4184:MET:HB3	2:B:5021:PHE:HA	2.01	0.42
2:I:935:LEU:HD11	2:I:991:ASN:ND2	2.33	0.42
2:I:1420:ASN:OD1	2:I:1421:ARG:N	2.47	0.42
2:I:1972:ASN:OD1	2:I:1973:GLN:N	2.51	0.42
2:I:2381:GLU:HA	2:I:2384:ILE:CG1	2.49	0.42
2:I:2381:GLU:HA	2:I:2384:ILE:HG13	1.99	0.42
2:I:2616:PRO:HD3	2:I:2650:ARG:HH22	1.84	0.42
2:I:2714:TYR:HE2	2:I:2716:ASP:OD1	2.02	0.42
2:A:144:GLU:HG3	2:A:175:SER:HA	2.01	0.42
2:A:710:ASP:N	2:A:710:ASP:OD1	2.53	0.42
2:A:983:THR:HG22	2:A:987:ARG:HH12	1.85	0.42
2:A:1739:THR:O	2:A:1742:THR:HG22	2.20	0.42
2:A:3046:LEU:O	2:A:3050:VAL:N	2.49	0.42
2:A:3542:LEU:O	2:A:3542:LEU:HD23	2.19	0.42
2:A:3768:SER:HA	2:A:3771:HIS:HB3	2.01	0.42
1:H:26:TYR:H	1:H:26:TYR:HD1	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:25:SER:OG	2:G:32:GLN:NE2	2.51	0.42
2:G:451:TYR:OH	2:G:474:ARG:HD2	2.20	0.42
2:G:928:THR:O	2:G:931:THR:OG1	2.30	0.42
2:G:1435:TYR:CE1	2:G:1518:CYS:HB2	2.54	0.42
2:G:2712:PRO:HB3	2:G:2956:ALA:HB2	2.01	0.42
2:G:2874:MET:O	2:G:2878:LEU:HG	2.19	0.42
2:G:3542:LEU:O	2:G:3542:LEU:HD23	2.19	0.42
2:B:179:TYR:CD2	2:B:197:GLN:HB3	2.54	0.42
2:B:949:ASN:HB3	2:B:974:HIS:CE1	2.55	0.42
2:B:983:THR:HG22	2:B:987:ARG:HH12	1.85	0.42
2:B:1586:ASN:ND2	2:B:1590:GLN:OE1	2.53	0.42
2:B:1805:GLU:OE1	2:B:1805:GLU:N	2.52	0.42
2:B:3008:GLN:HG2	2:B:3012:ASN:ND2	2.34	0.42
2:B:3069:HIS:NE2	2:B:3138:PRO:HB2	2.34	0.42
2:B:3132:THR:HG23	2:B:3136:LEU:HB2	2.01	0.42
2:B:3947:GLY:HA2	2:B:3950:ASN:HD22	1.84	0.42
2:I:664:PHE:CE1	2:I:779:PRO:HB3	2.53	0.42
2:I:2750[A]:LYS:O	2:I:2935:TYR:OH	2.33	0.42
2:I:2874:MET:O	2:I:2878:LEU:HG	2.19	0.42
2:I:3046:LEU:O	2:I:3050:VAL:N	2.49	0.42
2:I:4177:TYR:HE1	2:I:4199:GLU:HB3	1.82	0.42
2:A:14:LEU:N	2:A:163:VAL:HG23	2.35	0.42
2:A:971:ASP:OD1	2:A:971:ASP:N	2.51	0.42
2:A:1248:VAL:HG23	2:A:1597:VAL:O	2.19	0.42
2:A:1435:TYR:CE1	2:A:1518:CYS:HB2	2.54	0.42
2:A:1717:SER:HA	2:A:1721:GLU:CG	2.48	0.42
2:A:2021:CYS:HB2	2:A:2023:LEU:HD13	2.01	0.42
2:A:2155:LEU:HD12	2:A:2185:ILE:HD13	2.02	0.42
2:A:2332:LEU:O	2:A:2336:ARG:HG3	2.20	0.42
2:A:2576:ALA:HA	2:A:2618:MET:HE1	2.00	0.42
2:A:2641:LEU:HD11	2:A:2698:MET:SD	2.58	0.42
2:A:2714:TYR:HE2	2:A:2716:ASP:OD1	2.02	0.42
2:A:3374:ALA:O	2:A:3377:GLU:N	2.51	0.42
2:A:3388:GLU:O	2:A:3392:LEU:HG	2.20	0.42
2:A:3525:CYS:HA	2:A:3595:ARG:NH1	2.34	0.42
2:A:3923:LEU:HD11	2:A:3962:PHE:CZ	2.54	0.42
2:A:4586:PRO:HG3	2:A:4629:TYR:CZ	2.54	0.42
2:A:4721:LYS:HG3	2:A:4741:LEU:HD22	2.02	0.42
2:G:163:VAL:HG23	2:G:163:VAL:O	2.19	0.42
2:G:689:THR:OG1	2:G:776:LEU:HB2	2.20	0.42
2:G:1286:MET:HE2	2:G:1286:MET:HB3	1.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1717:SER:HA	2:G:1721:GLU:CG	2.48	0.42
2:G:1805:GLU:OE1	2:G:1805:GLU:N	2.52	0.42
2:G:2380:ILE:HD13	2:G:2380:ILE:HA	1.88	0.42
2:G:3342:ALA:O	2:G:3345:ILE:HG22	2.19	0.42
2:G:3637:ARG:HD2	2:G:3638:MET:H	1.84	0.42
2:G:4090:LYS:NZ	2:G:4112:LEU:HD12	2.34	0.42
2:G:4184:MET:HB3	2:G:5021:PHE:HA	2.01	0.42
2:G:4995:LEU:HD21	2:G:5007:GLU:HG3	2.01	0.42
2:B:949:ASN:HB3	2:B:974:HIS:HE2	1.84	0.42
2:B:1477:GLY:HA2	2:B:1483:VAL:HA	2.01	0.42
2:B:3170:CYS:SG	2:B:3240:CYS:HB2	2.60	0.42
2:B:4238:CYS:HB3	2:B:4989:MET:HG3	2.00	0.42
2:B:4646:LEU:HD23	2:B:4646:LEU:HA	1.85	0.42
2:I:1248:VAL:HG23	2:I:1597:VAL:O	2.19	0.42
2:I:1739:THR:O	2:I:1742:THR:HG22	2.20	0.42
2:I:2579:VAL:O	2:I:2583:LEU:HG	2.20	0.42
2:I:3847:PHE:HZ	2:I:3943:ILE:HD11	1.84	0.42
2:I:3991:GLY:O	2:I:3995:VAL:HG23	2.19	0.42
2:A:181:HIS:HA	2:A:198:THR:CG2	2.50	0.42
2:A:949:ASN:HB3	2:A:974:HIS:CE1	2.55	0.42
2:A:1805:GLU:OE1	2:A:1805:GLU:N	2.52	0.42
2:A:2001:PRO:O	2:A:2005:GLN:HG3	2.19	0.42
2:A:2368:LEU:HD12	2:A:2368:LEU:HA	1.86	0.42
2:A:2381:GLU:HA	2:A:2384:ILE:CG1	2.49	0.42
2:A:3991:GLY:O	2:A:3995:VAL:HG23	2.19	0.42
1:O:82:TYR:CD1	1:O:87:HIS:HB2	2.55	0.42
2:G:179:TYR:CD2	2:G:197:GLN:HB3	2.54	0.42
2:G:1089:TYR:CD2	2:G:1152:MET:HG3	2.52	0.42
2:G:1739:THR:O	2:G:1742:THR:HG22	2.20	0.42
2:G:2381:GLU:HA	2:G:2384:ILE:CG1	2.49	0.42
2:G:3008:GLN:HG2	2:G:3012:ASN:ND2	2.34	0.42
2:G:3525:CYS:HA	2:G:3595:ARG:NH1	2.34	0.42
2:G:3962:PHE:O	2:G:4026:MET:SD	2.78	0.42
2:G:4911:LEU:O	2:G:4915:VAL:HG23	2.19	0.42
2:B:1247:PRO:HA	2:B:1598:GLN:HG2	2.01	0.42
2:B:1248:VAL:HG23	2:B:1597:VAL:O	2.19	0.42
2:B:1698:LEU:HG	2:B:1712:TYR:CZ	2.55	0.42
2:B:2001:PRO:O	2:B:2005:GLN:HG3	2.19	0.42
2:B:2579:VAL:O	2:B:2583:LEU:HG	2.19	0.42
2:B:2874:MET:O	2:B:2878:LEU:HG	2.19	0.42
2:B:3725:TYR:HA	2:B:3728:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3923:LEU:HD11	2:B:3962:PHE:CZ	2.54	0.42
2:B:4586:PRO:HG3	2:B:4629:TYR:CZ	2.54	0.42
2:B:4911:LEU:O	2:B:4915:VAL:HG23	2.19	0.42
2:I:871:ARG:NE	2:I:922:LEU:HD12	2.35	0.42
2:I:954:LYS:HD2	2:I:967:PRO:HG2	2.00	0.42
2:I:973:SER:HA	2:I:976:ARG:HH22	1.85	0.42
2:I:1469:VAL:CG2	2:I:1492:CYS:HB3	2.50	0.42
2:I:2968:ASP:O	2:I:2971:GLN:HB2	2.20	0.42
2:I:3015:LEU:HB3	2:I:3025:LEU:O	2.20	0.42
2:I:3033:ASN:OD1	2:I:3033:ASN:N	2.53	0.42
2:I:3696:ASP:CG	2:I:3773:ARG:HE	2.23	0.42
2:I:4201:ASN:HB3	2:I:4993:MET:HE3	2.00	0.42
2:A:451:TYR:OH	2:A:474:ARG:HD2	2.20	0.42
2:A:667:MET:HG3	2:A:743:VAL:HG22	2.00	0.42
2:A:1586:ASN:ND2	2:A:1590:GLN:OE1	2.53	0.42
2:A:1668:ARG:HE	2:A:1668:ARG:HB3	1.69	0.42
2:A:1942:LEU:HD23	2:A:1942:LEU:HA	1.83	0.42
2:A:3269:VAL:O	2:A:3273:THR:N	2.51	0.42
2:A:3380:ARG:NH2	2:A:3388:GLU:OE1	2.52	0.42
2:A:3947:GLY:HA2	2:A:3950:ASN:HD22	1.85	0.42
2:G:345:LEU:HD21	2:G:389:PHE:CZ	2.55	0.42
2:G:1290:ARG:HD2	2:G:1549:PHE:CD2	2.55	0.42
2:G:2021:CYS:HB2	2:G:2023:LEU:HD13	2.01	0.42
2:G:3107:VAL:O	2:G:3111:ARG:NH2	2.53	0.42
2:G:3388:GLU:O	2:G:3392:LEU:HG	2.20	0.42
2:B:297:GLN:HB3	2:B:300:VAL:HG13	2.02	0.42
2:B:870:ILE:O	2:B:874:LEU:HG	2.19	0.42
2:B:1007:TYR:CG	2:B:1008:SER:N	2.88	0.42
2:B:2478:THR:HG22	2:B:2487:GLN:HB2	2.01	0.42
2:B:2576:ALA:HA	2:B:2618:MET:HE1	2.01	0.42
2:B:3036:LYS:HD2	2:B:3078:ARG:HD3	2.01	0.42
2:B:3445:TRP:HA	2:B:3451:PHE:CD1	2.54	0.42
2:B:3525:CYS:HA	2:B:3595:ARG:NH1	2.34	0.42
2:B:3614:LYS:HB2	2:B:3614:LYS:HE3	1.77	0.42
2:B:4090:LYS:NZ	2:B:4112:LEU:HD12	2.34	0.42
2:B:4093:PHE:CG	2:B:4123:ILE:HD11	2.54	0.42
2:I:345:LEU:HD21	2:I:389:PHE:CZ	2.55	0.42
2:I:451:TYR:OH	2:I:474:ARG:HD2	2.20	0.42
2:I:949:ASN:HB3	2:I:974:HIS:HE2	1.84	0.42
2:I:1297:PHE:HE1	2:I:1548:LEU:HD12	1.83	0.42
2:I:1586:ASN:ND2	2:I:1590:GLN:OE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1694:LEU:HD23	2:I:1694:LEU:HA	1.85	0.42
2:I:2159:LEU:O	2:I:2163:ARG:HG2	2.18	0.42
2:I:2562:ILE:HA	2:I:2565:CYS:SG	2.60	0.42
2:I:2672:LEU:HD23	2:I:2672:LEU:HA	1.85	0.42
2:I:2692:ASP:CG	2:I:2695:LEU:HB2	2.40	0.42
2:I:3263:TYR:H	2:I:3326:ASN:HD21	1.67	0.42
2:I:3342:ALA:O	2:I:3345:ILE:HG22	2.19	0.42
2:I:3388:GLU:O	2:I:3392:LEU:HG	2.20	0.42
2:I:3965:LEU:HA	2:I:3968:TYR:CD2	2.55	0.42
2:I:4713:SER:HB3	2:I:4775:TYR:OH	2.20	0.42
2:I:4911:LEU:O	2:I:4915:VAL:HG23	2.19	0.42
2:I:4933:GLN:O	2:I:4937:ILE:HG12	2.20	0.42
2:A:183:SER:HB2	2:A:190:GLN:N	2.35	0.42
2:A:297:GLN:HB3	2:A:300:VAL:HG13	2.02	0.42
2:A:803:LEU:HD23	2:A:804:PRO:O	2.20	0.42
2:A:1252:HIS:CG	2:A:1253:PRO:HD2	2.55	0.42
2:A:2519:LEU:HD21	2:A:2575:ARG:HE	1.85	0.42
2:A:2874:MET:O	2:A:2878:LEU:HG	2.19	0.42
2:A:2894:LEU:O	2:A:2898:GLY:N	2.48	0.42
2:A:2894:LEU:HG	2:A:2899:GLY:HA2	2.02	0.42
2:A:3107:VAL:O	2:A:3111:ARG:NH2	2.53	0.42
2:A:4090:LYS:NZ	2:A:4112:LEU:HD12	2.34	0.42
2:G:144:GLU:HG3	2:G:175:SER:HA	2.01	0.42
2:G:537:CYS:SG	2:G:570:GLU:HB3	2.60	0.42
2:G:1101:ARG:HD2	2:G:1115:LEU:HB2	2.01	0.42
2:G:1247:PRO:HA	2:G:1598:GLN:HG2	2.01	0.42
2:G:1469:VAL:CG2	2:G:1492:CYS:HB3	2.50	0.42
2:G:1479:GLU:HG3	2:G:1480:GLN:H	1.85	0.42
2:G:2383:ALA:O	2:G:2387:SER:OG	2.27	0.42
2:G:2653:LYS:O	2:G:2657:LEU:HB2	2.20	0.42
2:G:3965:LEU:HA	2:G:3968:TYR:CD2	2.55	0.42
2:G:4586:PRO:HG3	2:G:4629:TYR:CZ	2.54	0.42
2:G:4721:LYS:HG3	2:G:4741:LEU:HD22	2.02	0.42
2:G:4921:PHE:CE2	2:I:4892:ARG:HA	2.54	0.42
2:B:14:LEU:N	2:B:163:VAL:HG23	2.35	0.42
2:B:215:THR:OG1	2:B:218:HIS:NE2	2.53	0.42
2:B:231:LEU:O	2:B:260:TRP:NE1	2.45	0.42
2:B:451:TYR:OH	2:B:474:ARG:HD2	2.20	0.42
2:B:710:ASP:OD1	2:B:710:ASP:N	2.53	0.42
2:B:1039:LEU:HD13	2:B:1039:LEU:HA	1.89	0.42
2:B:1479:GLU:HG3	2:B:1480:GLN:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2155:LEU:HD12	2:B:2185:ILE:HD13	2.02	0.42
2:B:2381:GLU:HA	2:B:2384:ILE:CG1	2.49	0.42
2:B:2519:LEU:HD21	2:B:2575:ARG:HE	1.85	0.42
2:B:3527:PRO:HA	2:B:3530:GLN:NE2	2.32	0.42
2:B:4241:THR:HA	2:B:4244:GLU:OE1	2.20	0.42
2:B:4939:ALA:O	2:B:4943:LEU:HD23	2.18	0.42
2:B:4979:THR:HG23	3:B:5301:ATP:N3	2.35	0.42
2:I:183:SER:HB2	2:I:190:GLN:N	2.35	0.42
2:I:259:LEU:HD22	2:I:393:CYS:SG	2.60	0.42
2:I:689:THR:OG1	2:I:776:LEU:HB2	2.20	0.42
2:I:1479:GLU:HG3	2:I:1480:GLN:H	1.85	0.42
2:I:2001:PRO:O	2:I:2005:GLN:HG3	2.19	0.42
2:I:2332:LEU:O	2:I:2336:ARG:HG3	2.20	0.42
2:I:2418:LEU:HG	2:I:2419:GLY:H	1.85	0.42
2:I:2653:LYS:O	2:I:2657:LEU:HB2	2.19	0.42
2:I:3283:ARG:NH2	2:I:3287:ARG:HH22	2.10	0.42
2:I:3725:TYR:HA	2:I:3728:ILE:HD12	2.02	0.42
2:I:4090:LYS:NZ	2:I:4112:LEU:HD12	2.34	0.42
2:I:4656:LEU:HA	2:I:4659:ILE:HG12	2.02	0.42
2:I:4721:LYS:HG3	2:I:4741:LEU:HD22	2.02	0.42
2:A:1155:LEU:HA	2:A:1155:LEU:HD23	1.69	0.42
2:A:1479:GLU:HG3	2:A:1480:GLN:H	1.85	0.42
2:A:2018:GLU:OE1	2:A:2018:GLU:N	2.49	0.42
2:A:2477:PRO:HD2	2:A:2536:LEU:HD11	2.01	0.42
2:A:2968:ASP:O	2:A:2971:GLN:HB2	2.20	0.42
2:A:3033:ASN:N	2:A:3033:ASN:OD1	2.53	0.42
2:A:3132:THR:HG23	2:A:3136:LEU:HB2	2.01	0.42
2:A:3372:VAL:HG21	2:A:3397:GLU:HB3	2.02	0.42
2:A:3802:ILE:O	2:A:3806:ASN:N	2.53	0.42
2:A:4911:LEU:O	2:A:4915:VAL:HG23	2.19	0.42
1:J:82:TYR:CD1	1:J:87:HIS:HB2	2.55	0.42
2:G:669:ASP:CG	2:G:790:ARG:HH12	2.23	0.42
2:G:710:ASP:N	2:G:710:ASP:OD1	2.53	0.42
2:G:803:LEU:HD23	2:G:804:PRO:O	2.20	0.42
2:G:871:ARG:NE	2:G:922:LEU:HD12	2.35	0.42
2:G:3768:SER:HA	2:G:3771:HIS:HB3	2.01	0.42
2:G:3802:ILE:O	2:G:3806:ASN:N	2.53	0.42
2:G:3947:GLY:HA2	2:G:3950:ASN:HD22	1.85	0.42
2:B:183:SER:HB2	2:B:190:GLN:N	2.35	0.42
2:B:779:PRO:HB2	2:B:791:PHE:CZ	2.48	0.42
2:B:2333:ASP:HA	2:B:2336:ARG:NE	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2562:ILE:HA	2:B:2565:CYS:SG	2.60	0.42
2:B:2714:TYR:HE2	2:B:2716:ASP:OD1	2.02	0.42
2:B:2860:PRO:HG3	2:B:2929:PHE:HE1	1.84	0.42
2:B:2894:LEU:HG	2:B:2899:GLY:HA2	2.02	0.42
2:B:3263:TYR:H	2:B:3326:ASN:HD21	1.67	0.42
2:B:3342:ALA:O	2:B:3345:ILE:HG22	2.19	0.42
2:B:4177:TYR:HE1	2:B:4199:GLU:HB3	1.82	0.42
2:I:498:THR:HA	2:I:553:ARG:HH22	1.84	0.42
2:I:537:CYS:SG	2:I:570:GLU:HB3	2.60	0.42
2:I:669:ASP:CG	2:I:790:ARG:HH12	2.23	0.42
2:I:2021:CYS:HB2	2:I:2023:LEU:HD13	2.01	0.42
2:I:2536:LEU:O	2:I:2542:SER:OG	2.38	0.42
2:I:3069:HIS:NE2	2:I:3138:PRO:HB2	2.34	0.42
2:I:3071:LEU:HA	2:I:3074:SER:OG	2.20	0.42
2:I:3445:TRP:CE2	2:I:3452:LYS:HG2	2.55	0.42
2:I:3962:PHE:O	2:I:4026:MET:SD	2.78	0.42
2:I:4586:PRO:HG3	2:I:4629:TYR:CZ	2.54	0.42
2:A:345:LEU:HD21	2:A:389:PHE:CZ	2.55	0.42
2:A:498:THR:HA	2:A:553:ARG:HH22	1.84	0.42
2:A:2634:ASN:ND2	2:A:2636:PHE:HB2	2.35	0.42
2:A:3445:TRP:CE2	2:A:3452:LYS:HG2	2.55	0.42
2:A:3825:GLU:OE2	2:A:3827:GLY:N	2.53	0.42
2:A:3962:PHE:O	2:A:4026:MET:SD	2.78	0.42
2:G:41:GLY:O	2:G:45:ARG:NH1	2.50	0.42
2:G:183:SER:HB2	2:G:190:GLN:N	2.35	0.42
2:G:543:ASN:O	2:G:546:TRP:CB	2.68	0.42
2:G:568:LEU:HD23	2:G:568:LEU:HA	1.93	0.42
2:G:1634:LEU:HA	2:G:1634:LEU:HD12	1.79	0.42
2:G:1935:VAL:HG12	2:G:1939:MET:HE1	2.02	0.42
2:G:2138:LEU:HA	2:G:2138:LEU:HD23	1.84	0.42
2:G:2175:GLU:HA	2:G:2228:MET:HE1	2.01	0.42
2:G:2332:LEU:O	2:G:2336:ARG:HG3	2.20	0.42
2:G:3249:LEU:O	2:G:3253:ILE:HG23	2.20	0.42
2:G:3445:TRP:CE2	2:G:3452:LYS:HG2	2.55	0.42
2:G:3991:GLY:O	2:G:3995:VAL:HG23	2.19	0.42
2:G:4039:MET:SD	2:G:4040:ILE:HG12	2.60	0.42
2:G:4979:THR:HG23	3:G:5301:ATP:N3	2.35	0.42
2:B:163:VAL:HG23	2:B:163:VAL:O	2.19	0.42
2:B:1435:TYR:CE1	2:B:1518:CYS:HB2	2.54	0.42
2:B:2198:MET:N	2:B:2198:MET:SD	2.93	0.42
2:B:2332:LEU:O	2:B:2336:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2418:LEU:HG	2:B:2419:GLY:H	1.85	0.42
2:B:2912:THR:O	2:B:2916:LYS:N	2.46	0.42
2:B:3374:ALA:O	2:B:3377:GLU:N	2.51	0.42
2:B:3388:GLU:O	2:B:3392:LEU:HG	2.20	0.42
2:B:3696:ASP:CG	2:B:3773:ARG:HE	2.23	0.42
2:B:4071:ILE:HG13	2:B:4072:VAL:N	2.35	0.42
2:B:4848:VAL:HG11	2:B:4887:MET:HG2	2.02	0.42
2:B:4855:ALA:O	2:B:4859:PHE:N	2.52	0.42
2:I:543:ASN:O	2:I:546:TRP:CB	2.68	0.42
2:I:710:ASP:N	2:I:710:ASP:OD1	2.53	0.42
2:I:1076:ARG:NH2	2:I:1655:GLU:OE1	2.45	0.42
2:I:1252:HIS:CG	2:I:1253:PRO:HD2	2.55	0.42
2:I:1286:MET:HE2	2:I:1286:MET:HB3	1.99	0.42
2:I:1734:TYR:HB2	2:I:2140:ARG:O	2.20	0.42
2:I:2612:ARG:NE	2:I:2612:ARG:HA	2.35	0.42
2:I:3171:SER:O	2:I:3174:SER:OG	2.32	0.42
2:I:3947:GLY:HA2	2:I:3950:ASN:HD22	1.84	0.42
2:A:102:LEU:HB2	2:A:105:HIS:HD2	1.85	0.41
2:A:214:VAL:HG22	2:A:341:TYR:CE1	2.55	0.41
2:A:681:HIS:HB3	2:A:784:SER:HB3	2.02	0.41
2:A:1297:PHE:CE1	2:A:1548:LEU:HD12	2.55	0.41
2:A:2700:MET:HB3	2:A:2701:PRO:HD3	2.02	0.41
2:A:3037:GLU:OE2	2:A:3078:ARG:NH2	2.50	0.41
2:A:3170:CYS:SG	2:A:3240:CYS:HB2	2.60	0.41
2:A:3847:PHE:HZ	2:A:3943:ILE:HD11	1.84	0.41
2:A:3998:HIS:O	2:A:3999:MET:C	2.57	0.41
2:G:215:THR:HG1	2:G:218:HIS:CE1	2.38	0.41
2:G:719:LEU:HB2	2:G:720:HIS:CE1	2.55	0.41
2:G:1698:LEU:HG	2:G:1712:TYR:CZ	2.55	0.41
2:G:2634:ASN:ND2	2:G:2636:PHE:HB2	2.35	0.41
2:G:2714:TYR:HE2	2:G:2716:ASP:OD1	2.02	0.41
2:G:2743:LEU:HD12	2:G:2743:LEU:H	1.84	0.41
2:G:2822:THR:OG1	2:G:2938:THR:OG1	2.36	0.41
2:G:3015:LEU:HB3	2:G:3025:LEU:O	2.20	0.41
2:G:3443:ILE:HG23	2:G:3605:HIS:CE1	2.55	0.41
2:B:21:VAL:HB	2:B:36:CYS:SG	2.61	0.41
2:B:74:SER:OG	2:B:77:ALA:N	2.45	0.41
2:B:345:LEU:HD21	2:B:389:PHE:CZ	2.55	0.41
2:B:2362:GLU:HB2	2:B:2369:ARG:NH2	2.34	0.41
2:B:2536:LEU:O	2:B:2542:SER:OG	2.38	0.41
2:B:2653:LYS:O	2:B:2657:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2692:ASP:CG	2:B:2695:LEU:HB2	2.40	0.41
2:B:2712:PRO:HB3	2:B:2956:ALA:HB2	2.01	0.41
2:B:3962:PHE:O	2:B:4026:MET:SD	2.78	0.41
2:B:4049:VAL:HG12	2:B:4163:PHE:HZ	1.85	0.41
2:B:4721:LYS:HG3	2:B:4741:LEU:HD22	2.02	0.41
2:B:4772:ASP:OD2	2:B:4772:ASP:N	2.46	0.41
2:B:4922:PHE:O	2:B:4927:ILE:HG12	2.19	0.41
2:B:4927:ILE:HG13	2:B:4928:LEU:H	1.85	0.41
2:B:4984:ASN:C	2:B:4986:ALA:H	2.23	0.41
2:I:355:LEU:HB3	2:I:378:LEU:HB3	2.02	0.41
2:I:983:THR:HB	2:I:1055:PRO:HG3	2.01	0.41
2:I:1007:TYR:CG	2:I:1008:SER:N	2.88	0.41
2:I:1679:ASN:ND2	2:I:1797:ARG:O	2.53	0.41
2:I:2198:MET:SD	2:I:2198:MET:N	2.93	0.41
2:I:2297:LYS:O	2:I:2301:TYR:HD2	2.03	0.41
2:I:2333:ASP:HA	2:I:2336:ARG:NE	2.34	0.41
2:I:2712:PRO:HB3	2:I:2956:ALA:HB2	2.01	0.41
2:I:2933:ASN:HB3	2:I:2935:TYR:CD1	2.55	0.41
2:I:3107:VAL:O	2:I:3111:ARG:NH2	2.53	0.41
2:I:3802:ILE:O	2:I:3806:ASN:N	2.53	0.41
2:A:1039:LEU:HD13	2:A:1039:LEU:HA	1.89	0.41
2:A:1236:THR:OG1	2:A:1608:MET:SD	2.74	0.41
2:A:1290:ARG:HD2	2:A:1549:PHE:CD2	2.55	0.41
2:A:1985:THR:O	2:A:1986:MET:HB3	2.19	0.41
2:A:2822:THR:OG1	2:A:2938:THR:OG1	2.36	0.41
2:A:3313:ASN:HD22	2:A:3350:ARG:HB2	1.86	0.41
2:A:3390:GLY:HA2	2:A:3393:LEU:HD12	2.03	0.41
2:A:3965:LEU:HA	2:A:3968:TYR:CD2	2.55	0.41
2:A:4231:MET:CG	2:A:4959:PHE:HE2	2.32	0.41
2:A:4860:ARG:HG2	2:A:4874:MET:HE2	2.01	0.41
1:H:82:TYR:CD1	1:H:87:HIS:HB2	2.55	0.41
1:J:26:TYR:HD1	1:J:26:TYR:H	1.66	0.41
2:G:14:LEU:N	2:G:163:VAL:HG23	2.35	0.41
2:G:181:HIS:HA	2:G:198:THR:CG2	2.50	0.41
2:G:274:LEU:HA	2:G:278:GLN:NE2	2.35	0.41
2:G:2595:LEU:O	2:G:2596:THR:OG1	2.30	0.41
2:G:3071:LEU:HA	2:G:3074:SER:OG	2.20	0.41
2:G:3132:THR:HG23	2:G:3136:LEU:HB2	2.01	0.41
2:G:3903:LEU:HD23	2:G:3903:LEU:HA	1.80	0.41
2:G:4241:THR:HA	2:G:4244:GLU:OE1	2.20	0.41
2:G:4656:LEU:HA	2:G:4659:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:28:VAL:O	2:B:29:LEU:HD23	2.21	0.41
2:B:355:LEU:HB3	2:B:378:LEU:HB3	2.03	0.41
2:B:871:ARG:NE	2:B:922:LEU:HD12	2.35	0.41
2:B:2021:CYS:HB2	2:B:2023:LEU:HD13	2.01	0.41
2:B:2512:ILE:HG22	2:B:2517:PHE:CD2	2.55	0.41
2:B:2933:ASN:HB3	2:B:2935:TYR:CD1	2.56	0.41
2:B:3071:LEU:HA	2:B:3074:SER:OG	2.20	0.41
2:B:3269:VAL:O	2:B:3273:THR:N	2.51	0.41
2:B:3274:LEU:HB3	2:B:3275:PRO:HD3	2.02	0.41
2:B:3641:LEU:HD13	2:B:3644:LEU:HD12	2.01	0.41
2:B:3802:ILE:O	2:B:3806:ASN:N	2.53	0.41
2:B:3965:LEU:HA	2:B:3968:TYR:CD2	2.55	0.41
2:B:4578:LEU:CD1	2:I:4849:TYR:HE1	2.27	0.41
2:I:21:VAL:HB	2:I:36:CYS:SG	2.61	0.41
2:I:28:VAL:O	2:I:29:LEU:HD23	2.20	0.41
2:I:215:THR:OG1	2:I:218:HIS:NE2	2.53	0.41
2:I:274:LEU:HA	2:I:278:GLN:NE2	2.35	0.41
2:I:293:LEU:HD11	2:I:355:LEU:HD12	2.02	0.41
2:I:721:LEU:HD23	2:I:721:LEU:HA	1.85	0.41
2:I:1202:LEU:HD12	2:I:1202:LEU:HA	1.79	0.41
2:I:1717:SER:HA	2:I:1721:GLU:CG	2.48	0.41
2:I:2700:MET:HB3	2:I:2701:PRO:HD3	2.02	0.41
2:I:3141:THR:HG21	2:I:3192:GLU:OE1	2.20	0.41
2:I:3249:LEU:O	2:I:3253:ILE:HG23	2.20	0.41
2:I:3257:ALA:HB2	2:I:3322:ILE:HG13	2.03	0.41
2:I:3965:LEU:HD13	2:I:3968:TYR:HD2	1.86	0.41
2:I:4083:ASP:HB2	2:I:4122:MET:HE2	2.01	0.41
2:I:4848:VAL:HG11	2:I:4887:MET:HG2	2.02	0.41
1:F:82:TYR:CD1	1:F:87:HIS:HB2	2.55	0.41
2:A:35:LEU:CB	2:A:49:LEU:HD12	2.51	0.41
2:A:259:LEU:HD22	2:A:393:CYS:SG	2.60	0.41
2:A:543:ASN:O	2:A:546:TRP:CB	2.68	0.41
2:A:871:ARG:NE	2:A:922:LEU:HD12	2.35	0.41
2:A:983:THR:HB	2:A:1055:PRO:HG3	2.01	0.41
2:A:1469:VAL:CG2	2:A:1492:CYS:HB3	2.50	0.41
2:A:1698:LEU:HG	2:A:1712:TYR:CZ	2.55	0.41
2:A:2198:MET:SD	2:A:2198:MET:N	2.93	0.41
2:A:2362:GLU:HB2	2:A:2369:ARG:NH2	2.34	0.41
2:A:2647:HIS:O	2:A:2651:CYS:N	2.34	0.41
2:A:3158:LEU:O	2:A:3162:GLN:NE2	2.50	0.41
2:A:3354:LEU:O	2:A:3358:PHE:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3508:SER:O	2:A:3511:VAL:HG22	2.21	0.41
2:A:4045:VAL:O	2:A:4049:VAL:HG13	2.21	0.41
2:A:4823:LEU:CD1	2:B:4843:LEU:HB2	2.47	0.41
2:A:4933:GLN:O	2:A:4937:ILE:HG12	2.20	0.41
2:A:4979:THR:HG23	3:A:5301:ATP:N3	2.35	0.41
2:G:293:LEU:HD11	2:G:355:LEU:HD12	2.02	0.41
2:G:378:LEU:HD23	2:G:378:LEU:HA	1.85	0.41
2:G:2211:MET:HA	2:G:2214:VAL:HG12	2.03	0.41
2:G:2477:PRO:HD2	2:G:2536:LEU:HD11	2.01	0.41
2:G:2894:LEU:HG	2:G:2899:GLY:HA2	2.02	0.41
2:G:3246:LEU:HA	2:G:3249:LEU:HG	2.03	0.41
2:G:3372:VAL:HG21	2:G:3397:GLU:HB3	2.02	0.41
2:G:3508:SER:O	2:G:3511:VAL:HG22	2.21	0.41
2:B:343:GLU:HG2	2:B:344:SER:N	2.35	0.41
2:B:537:CYS:SG	2:B:570:GLU:HB3	2.60	0.41
2:B:689:THR:OG1	2:B:776:LEU:HB2	2.20	0.41
2:B:1252:HIS:CG	2:B:1253:PRO:HD2	2.55	0.41
2:B:1476:MET:HB2	2:B:1485:SER:OG	2.21	0.41
2:B:1679:ASN:ND2	2:B:1797:ARG:O	2.53	0.41
2:B:2138:LEU:HD23	2:B:2138:LEU:HA	1.84	0.41
2:B:3046:LEU:O	2:B:3050:VAL:N	2.49	0.41
2:B:3141:THR:HG21	2:B:3192:GLU:OE1	2.20	0.41
2:B:3313:ASN:HD22	2:B:3350:ARG:HB2	1.86	0.41
2:B:3542:LEU:O	2:B:3542:LEU:HD23	2.19	0.41
2:B:3580:PRO:HA	2:B:3582:ARG:HH11	1.86	0.41
2:I:149:THR:HG22	2:I:150:MET:N	2.30	0.41
2:I:341:TYR:OH	2:I:392:ARG:HD3	2.20	0.41
2:I:343:GLU:HG2	2:I:344:SER:N	2.35	0.41
2:I:904:HIS:N	2:I:905:PRO:HD3	2.35	0.41
2:I:1101:ARG:HD2	2:I:1115:LEU:HB2	2.02	0.41
2:I:2576:ALA:HA	2:I:2618:MET:HE1	2.02	0.41
2:I:2894:LEU:HG	2:I:2899:GLY:HA2	2.02	0.41
2:I:3246:LEU:HA	2:I:3249:LEU:HG	2.03	0.41
2:I:4157:ASP:N	2:I:4161:ARG:NH1	2.62	0.41
2:I:4241:THR:HA	2:I:4244:GLU:OE1	2.20	0.41
2:I:4984:ASN:C	2:I:4986:ALA:H	2.23	0.41
2:A:343:GLU:HG2	2:A:344:SER:N	2.35	0.41
2:A:689:THR:OG1	2:A:776:LEU:HB2	2.20	0.41
2:A:1575:LEU:HA	2:A:1575:LEU:HD23	1.77	0.41
2:A:2418:LEU:HG	2:A:2419:GLY:H	1.85	0.41
2:A:2512:ILE:HG22	2:A:2517:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2531:ARG:HA	2:A:2588:ARG:NH2	2.26	0.41
2:A:2624:ARG:NH2	2:A:2906:VAL:HG21	2.32	0.41
2:A:2670:GLU:HG2	2:A:2913:ALA:H	1.86	0.41
2:A:2886:TRP:O	2:A:2890:LYS:HG2	2.21	0.41
2:A:3162:GLN:CD	2:A:3218:VAL:HB	2.41	0.41
2:A:4039:MET:SD	2:A:4040:ILE:HG12	2.60	0.41
2:A:4922:PHE:O	2:A:4927:ILE:HG12	2.19	0.41
2:G:35:LEU:CB	2:G:49:LEU:HD12	2.51	0.41
2:G:207:SER:OG	2:G:208:CYS:N	2.54	0.41
2:G:259:LEU:HD22	2:G:393:CYS:SG	2.60	0.41
2:G:426:ARG:HG3	2:G:505:GLU:O	2.21	0.41
2:G:498:THR:HA	2:G:553:ARG:HH22	1.84	0.41
2:G:774:ASP:OD1	2:G:774:ASP:N	2.47	0.41
2:G:904:HIS:N	2:G:905:PRO:HD3	2.36	0.41
2:G:1076:ARG:NH2	2:G:1655:GLU:OE1	2.45	0.41
2:G:1985:THR:O	2:G:1986:MET:HB3	2.19	0.41
2:G:2562:ILE:HA	2:G:2565:CYS:SG	2.60	0.41
2:G:3033:ASN:OD1	2:G:3033:ASN:N	2.53	0.41
2:G:3274:LEU:HB3	2:G:3275:PRO:HD3	2.01	0.41
2:G:3313:ASN:HD22	2:G:3350:ARG:HB2	1.86	0.41
2:G:3465:ASN:OD1	2:G:3467:MET:N	2.54	0.41
2:G:4071:ILE:HG13	2:G:4072:VAL:N	2.35	0.41
2:G:4185:GLY:HA3	2:G:4189:ARG:N	2.36	0.41
2:G:4755:GLU:O	2:G:4756:ARG:NE	2.54	0.41
2:G:4984:ASN:C	2:G:4986:ALA:H	2.23	0.41
2:B:1297:PHE:CE1	2:B:1548:LEU:HD12	2.55	0.41
2:B:2968:ASP:O	2:B:2971:GLN:HB2	2.20	0.41
2:B:3067:CYS:HA	2:B:3070:ILE:HG12	2.02	0.41
2:B:3301:PRO:HA	2:B:3302:PRO:HD3	1.91	0.41
2:B:3354:LEU:O	2:B:3358:PHE:HB3	2.21	0.41
2:B:3443:ILE:HG23	2:B:3605:HIS:CE1	2.55	0.41
2:B:4755:GLU:O	2:B:4756:ARG:NE	2.54	0.41
2:B:4933:GLN:O	2:B:4937:ILE:HG12	2.20	0.41
2:I:743:VAL:HG11	2:I:801:LYS:HB2	2.01	0.41
2:I:983:THR:HG22	2:I:987:ARG:HH12	1.85	0.41
2:I:1435:TYR:CE1	2:I:1518:CYS:HB2	2.54	0.41
2:I:1477:GLY:HA2	2:I:1483:VAL:HA	2.01	0.41
2:I:1698:LEU:HG	2:I:1712:TYR:CZ	2.55	0.41
2:I:2156:LEU:HD23	2:I:2156:LEU:HA	1.93	0.41
2:I:2477:PRO:HD2	2:I:2536:LEU:HD11	2.01	0.41
2:I:2886:TRP:O	2:I:2890:LYS:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3162:GLN:CD	2:I:3218:VAL:HB	2.41	0.41
2:I:3586:ALA:HA	2:I:3591:LYS:HE2	2.03	0.41
2:I:4979:THR:HG23	3:I:5301:ATP:N3	2.35	0.41
2:A:904:HIS:N	2:A:905:PRO:HD3	2.36	0.41
2:A:1247:PRO:HA	2:A:1598:GLN:HG2	2.02	0.41
2:A:2284:ASN:HB2	2:A:3858:MET:SD	2.61	0.41
2:A:2816:MET:HE1	2:A:2823:ILE:HG12	2.03	0.41
2:A:3263:TYR:H	2:A:3326:ASN:HD21	1.67	0.41
2:A:4713:SER:HB3	2:A:4775:TYR:OH	2.20	0.41
2:A:4848:VAL:HG11	2:A:4887:MET:HG2	2.02	0.41
2:A:4860:ARG:NH2	2:G:4630:TYR:OH	2.45	0.41
2:G:21:VAL:HB	2:G:36:CYS:SG	2.60	0.41
2:G:214:VAL:HG22	2:G:341:TYR:CE1	2.55	0.41
2:G:355:LEU:HB3	2:G:378:LEU:HB3	2.03	0.41
2:G:949:ASN:HB3	2:G:974:HIS:HE2	1.84	0.41
2:G:1476:MET:HB2	2:G:1485:SER:OG	2.21	0.41
2:G:2153:MET:HE2	2:G:2153:MET:HA	2.02	0.41
2:G:2198:MET:N	2:G:2198:MET:SD	2.93	0.41
2:G:2512:ILE:HG22	2:G:2517:PHE:CD2	2.55	0.41
2:G:2612:ARG:HA	2:G:2612:ARG:NE	2.35	0.41
2:G:2700:MET:HB3	2:G:2701:PRO:HD3	2.02	0.41
2:G:3103:ILE:O	2:G:3107:VAL:HG22	2.21	0.41
2:G:4848:VAL:HG11	2:G:4887:MET:HG2	2.02	0.41
2:B:543:ASN:O	2:B:546:TRP:CB	2.68	0.41
2:B:1202:LEU:HD12	2:B:1202:LEU:HA	1.79	0.41
2:B:2290:LEU:HD23	2:B:2290:LEU:HA	1.85	0.41
2:B:2748:PRO:HD2	2:B:2751:LEU:HD12	2.03	0.41
2:B:4045:VAL:O	2:B:4049:VAL:HG13	2.21	0.41
2:I:1247:PRO:HA	2:I:1598:GLN:HG2	2.02	0.41
2:I:2135:LEU:HD11	2:I:3663:LEU:HG	2.03	0.41
2:I:2748:PRO:HD2	2:I:2751:LEU:HD12	2.03	0.41
2:I:3067:CYS:HA	2:I:3070:ILE:HG12	2.03	0.41
2:I:3274:LEU:HB3	2:I:3275:PRO:HD3	2.02	0.41
2:I:3313:ASN:HD22	2:I:3350:ARG:HB2	1.86	0.41
2:I:3719:ASP:H	2:I:3793:MET:HE1	1.85	0.41
2:I:3767:GLN:NE2	2:I:3804:ILE:O	2.54	0.41
2:A:215:THR:OG1	2:A:218:HIS:NE2	2.53	0.41
2:A:355:LEU:HB3	2:A:378:LEU:HB3	2.02	0.41
2:A:669:ASP:CG	2:A:790:ARG:HH12	2.23	0.41
2:A:1476:MET:HB2	2:A:1485:SER:OG	2.21	0.41
2:A:3103:ILE:O	2:A:3107:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3443:ILE:HG23	2:A:3605:HIS:CE1	2.55	0.41
2:A:3540:TYR:HE2	2:A:3549:VAL:HG21	1.86	0.41
2:A:3767:GLN:NE2	2:A:3804:ILE:O	2.54	0.41
2:A:4927:ILE:HG13	2:A:4928:LEU:H	1.85	0.41
2:G:28:VAL:O	2:G:29:LEU:HD23	2.20	0.41
2:G:866:HIS:NE2	2:G:939:VAL:HG23	2.36	0.41
2:G:1297:PHE:CE1	2:G:1548:LEU:HD12	2.55	0.41
2:G:1433:TYR:CD1	2:G:1573:MET:HB2	2.56	0.41
2:G:1839:VAL:HB	2:G:1840:PRO:HD3	2.03	0.41
2:G:2135:LEU:HD11	2:G:3663:LEU:HG	2.03	0.41
2:G:2366:PRO:HA	2:G:2369:ARG:NE	2.36	0.41
2:G:2754:PHE:CZ	2:G:2930:LEU:HG	2.56	0.41
2:G:3067:CYS:HA	2:G:3070:ILE:HG12	2.02	0.41
2:G:3162:GLN:CD	2:G:3218:VAL:HB	2.41	0.41
2:G:3632:VAL:HG22	2:G:3633:VAL:H	1.86	0.41
2:G:3723:MET:HE3	2:G:3723:MET:HB3	1.94	0.41
2:G:4045:VAL:O	2:G:4049:VAL:HG13	2.21	0.41
2:B:35:LEU:CB	2:B:49:LEU:HD12	2.51	0.41
2:B:144:GLU:HG3	2:B:175:SER:HA	2.01	0.41
2:B:1101:ARG:HD2	2:B:1115:LEU:HB2	2.02	0.41
2:B:2284:ASN:HB2	2:B:3858:MET:SD	2.61	0.41
2:B:3033:ASN:OD1	2:B:3033:ASN:N	2.53	0.41
2:B:3107:VAL:O	2:B:3111:ARG:NH2	2.53	0.41
2:B:3465:ASN:OD1	2:B:3467:MET:N	2.54	0.41
2:B:4026:MET:HE3	2:B:4026:MET:HB3	1.64	0.41
2:B:4995:LEU:HD21	2:B:5007:GLU:HG3	2.01	0.41
2:I:14:LEU:N	2:I:163:VAL:HG23	2.35	0.41
2:I:719:LEU:HB2	2:I:720:HIS:CE1	2.56	0.41
2:I:906:CYS:HA	2:I:963:ASN:OD1	2.21	0.41
2:I:1297:PHE:CE1	2:I:1548:LEU:HD12	2.55	0.41
2:I:1476:MET:HB2	2:I:1485:SER:OG	2.21	0.41
2:I:2519:LEU:HD21	2:I:2575:ARG:HE	1.85	0.41
2:I:2595:LEU:O	2:I:2596:THR:OG1	2.30	0.41
2:I:2770:LYS:HD3	2:I:2791:LEU:HD21	2.02	0.41
2:A:28:VAL:O	2:A:29:LEU:HD23	2.21	0.41
2:A:293:LEU:HD11	2:A:355:LEU:HD12	2.02	0.41
2:A:426:ARG:HG3	2:A:505:GLU:O	2.21	0.41
2:A:537:CYS:SG	2:A:570:GLU:HB3	2.60	0.41
2:A:719:LEU:HB2	2:A:720:HIS:CE1	2.55	0.41
2:A:1024:TYR:CZ	2:A:1032:LYS:HG2	2.56	0.41
2:A:1101:ARG:HD2	2:A:1115:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1839:VAL:HB	2:A:1840:PRO:HD3	2.03	0.41
2:A:2186:MET:SD	2:A:2235:PHE:HD2	2.44	0.41
2:A:2244:ARG:CZ	2:A:3860:ASN:HD21	2.34	0.41
2:A:2371:GLU:HA	2:B:128:THR:O	2.19	0.41
2:A:2457:LEU:HD22	2:A:2505:PHE:HE1	1.86	0.41
2:A:2562:ILE:HA	2:A:2565:CYS:SG	2.60	0.41
2:A:2711:PRO:HA	2:A:2712:PRO:HD3	1.89	0.41
2:A:2770:LYS:HD3	2:A:2791:LEU:HD21	2.02	0.41
2:A:3141:THR:HG21	2:A:3192:GLU:OE1	2.20	0.41
2:A:3170:CYS:HA	2:A:3240:CYS:SG	2.61	0.41
2:A:3903:LEU:HD23	2:A:3903:LEU:HA	1.80	0.41
2:G:1252:HIS:CG	2:G:1253:PRO:HD2	2.55	0.41
2:G:2186:MET:SD	2:G:2235:PHE:HD2	2.44	0.41
2:G:2290:LEU:HD23	2:G:2290:LEU:HA	1.85	0.41
2:G:2307:LEU:O	2:G:2307:LEU:HG	2.21	0.41
2:G:2536:LEU:O	2:G:2542:SER:OG	2.38	0.41
2:G:2750[B]:LYS:H	2:G:2750[B]:LYS:HG3	1.36	0.41
2:G:2933:ASN:HB3	2:G:2935:TYR:CD1	2.56	0.41
2:G:3170:CYS:HA	2:G:3240:CYS:SG	2.61	0.41
2:G:3390:GLY:HA2	2:G:3393:LEU:HD12	2.03	0.41
2:G:3540:TYR:HE2	2:G:3549:VAL:HG21	1.86	0.41
2:G:4871:GLU:HG2	2:G:4871:GLU:O	2.21	0.41
2:B:181:HIS:HA	2:B:198:THR:CG2	2.50	0.41
2:B:259:LEU:HD22	2:B:393:CYS:SG	2.60	0.41
2:B:669:ASP:CG	2:B:790:ARG:HH12	2.23	0.41
2:B:1292:SER:HB3	2:B:1596:GLU:HG2	2.03	0.41
2:B:2110:TYR:O	2:B:2112:GLN:NE2	2.53	0.41
2:B:2314:LEU:HA	2:B:2318:TYR:HD2	1.85	0.41
2:B:2475:GLN:HB2	2:B:2488:PRO:HG2	2.03	0.41
2:B:2612:ARG:HA	2:B:2612:ARG:NE	2.35	0.41
2:B:3103:ILE:O	2:B:3107:VAL:HG22	2.21	0.41
2:B:3162:GLN:CD	2:B:3218:VAL:HB	2.41	0.41
2:B:3445:TRP:CE2	2:B:3452:LYS:HG2	2.55	0.41
2:B:3825:GLU:OE2	2:B:3827:GLY:N	2.53	0.41
2:B:4713:SER:HB3	2:B:4775:TYR:OH	2.20	0.41
2:B:4823:LEU:CD1	2:I:4843:LEU:HB2	2.47	0.41
2:I:803:LEU:HD23	2:I:804:PRO:O	2.20	0.41
2:I:1695:LEU:HB3	2:I:1810:LYS:NZ	2.35	0.41
2:I:1805:GLU:OE1	2:I:1805:GLU:N	2.52	0.41
2:I:3354:LEU:O	2:I:3358:PHE:HB3	2.21	0.41
2:I:4039:MET:SD	2:I:4040:ILE:HG12	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4189:ARG:NE	2:I:5032:TYR:HH	2.18	0.41
2:I:4927:ILE:HG13	2:I:4928:LEU:H	1.85	0.41
1:F:106:LEU:HD12	1:F:106:LEU:HA	1.72	0.41
2:A:887:ILE:HD12	2:A:887:ILE:HA	1.94	0.41
2:A:2748:PRO:HD2	2:A:2751:LEU:HD12	2.03	0.41
2:A:2766:TRP:CE2	2:A:2770:LYS:HD2	2.56	0.41
2:A:2933:ASN:HB3	2:A:2935:TYR:CD1	2.56	0.41
2:A:3632:VAL:HG22	2:A:3633:VAL:H	1.86	0.41
2:A:3696:ASP:CG	2:A:3773:ARG:HE	2.23	0.41
2:G:1103:GLY:HA3	2:G:1123:VAL:HA	2.03	0.41
2:G:1202:LEU:HD12	2:G:1202:LEU:HA	1.79	0.41
2:G:1454:THR:OG1	2:G:1456:ASP:OD2	2.24	0.41
2:G:1679:ASN:ND2	2:G:1797:ARG:O	2.53	0.41
2:G:2155:LEU:HD12	2:G:2185:ILE:HD13	2.02	0.41
2:G:2314:LEU:HA	2:G:2318:TYR:HD2	1.85	0.41
2:G:2319:PRO:HD3	2:G:2393:ASP:HA	2.03	0.41
2:G:2475:GLN:HB2	2:G:2488:PRO:HG2	2.03	0.41
2:G:2886:TRP:O	2:G:2890:LYS:HG2	2.21	0.41
2:G:3225:ARG:NH2	2:G:3225:ARG:O	2.54	0.41
2:G:3263:TYR:H	2:G:3326:ASN:HD21	1.67	0.41
2:G:4927:ILE:HG13	2:G:4928:LEU:H	1.85	0.41
2:B:214:VAL:HG22	2:B:341:TYR:CE1	2.55	0.41
2:B:274:LEU:HA	2:B:278:GLN:NE2	2.35	0.41
2:B:681:HIS:HB3	2:B:784:SER:HB3	2.02	0.41
2:B:861:ILE:HG21	2:B:930:LYS:HA	2.03	0.41
2:B:906:CYS:HA	2:B:963:ASN:OD1	2.21	0.41
2:B:1433:TYR:CD1	2:B:1573:MET:HB2	2.56	0.41
2:B:2883:HIS:NE2	2:B:2906:VAL:O	2.39	0.41
2:B:3246:LEU:HA	2:B:3249:LEU:HG	2.02	0.41
2:B:3372:VAL:HG21	2:B:3397:GLU:HB3	2.02	0.41
2:B:3390:GLY:HA2	2:B:3393:LEU:HD12	2.02	0.41
2:B:3924:LEU:HA	2:B:3924:LEU:HD23	1.89	0.41
2:B:3970:GLN:HE22	2:B:5004:THR:HA	1.86	0.41
2:B:4049:VAL:HG12	2:B:4163:PHE:CE2	2.56	0.41
2:I:805:PRO:O	2:I:808:TYR:HB2	2.21	0.41
2:I:1024:TYR:CZ	2:I:1032:LYS:HG2	2.56	0.41
2:I:1103:GLY:HA3	2:I:1123:VAL:HA	2.03	0.41
2:I:1292:SER:HB3	2:I:1596:GLU:HG2	2.03	0.41
2:I:1808:ARG:HG3	2:I:1854:PHE:CE1	2.56	0.41
2:I:2138:LEU:HA	2:I:2138:LEU:HD23	1.84	0.41
2:I:2296:GLU:HG3	2:I:2356:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2623:LEU:HD22	2:I:2674:LEU:HG	2.03	0.41
2:I:3206:LEU:HB2	2:I:3280:TYR:OH	2.21	0.41
2:I:3445:TRP:HA	2:I:3451:PHE:CD1	2.54	0.41
2:I:4855:ALA:O	2:I:4859:PHE:N	2.52	0.41
2:A:274:LEU:HA	2:A:278:GLN:NE2	2.35	0.41
2:A:546:TRP:O	2:A:549:SER:OG	2.32	0.41
2:A:721:LEU:HD23	2:A:721:LEU:HA	1.85	0.41
2:A:805:PRO:O	2:A:808:TYR:HB2	2.21	0.41
2:A:870:ILE:HD11	2:A:1049:TYR:CD2	2.56	0.41
2:A:1103:GLY:HA3	2:A:1123:VAL:HA	2.03	0.41
2:A:1122:TYR:HE1	2:A:1133:HIS:CD2	2.39	0.41
2:A:1433:TYR:CD1	2:A:1573:MET:HB2	2.56	0.41
2:A:1996:ARG:HD2	2:A:1997:GLU:N	2.36	0.41
2:A:2110:TYR:O	2:A:2112:GLN:NE2	2.53	0.41
2:A:2138:LEU:HA	2:A:2138:LEU:HD23	1.84	0.41
2:A:2307:LEU:HG	2:A:2307:LEU:O	2.21	0.41
2:A:2457:LEU:O	2:A:2460:LEU:HB3	2.21	0.41
2:A:2475:GLN:HB2	2:A:2488:PRO:HG2	2.03	0.41
2:A:2536:LEU:O	2:A:2542:SER:OG	2.38	0.41
2:A:2754:PHE:CZ	2:A:2930:LEU:HG	2.56	0.41
2:A:3015:LEU:HB3	2:A:3025:LEU:O	2.20	0.41
2:A:3246:LEU:HA	2:A:3249:LEU:HG	2.03	0.41
2:A:3249:LEU:O	2:A:3253:ILE:HG23	2.20	0.41
2:A:3465:ASN:OD1	2:A:3467:MET:N	2.54	0.41
2:A:4185:GLY:HA3	2:A:4189:ARG:N	2.36	0.41
2:A:4843:LEU:HD23	2:A:4928:LEU:HD11	2.03	0.41
1:H:106:LEU:HD12	1:H:106:LEU:HA	1.72	0.41
2:G:320:LYS:HD3	2:G:356:TRP:CZ3	2.56	0.41
2:G:343:GLU:HG2	2:G:344:SER:N	2.35	0.41
2:G:681:HIS:HB3	2:G:784:SER:HB3	2.02	0.41
2:G:983:THR:HG22	2:G:987:ARG:HH12	1.85	0.41
2:G:1734:TYR:HB2	2:G:2140:ARG:O	2.20	0.41
2:G:2296:GLU:HG3	2:G:2356:LEU:HD11	2.03	0.41
2:G:2418:LEU:HG	2:G:2419:GLY:H	1.85	0.41
2:G:2457:LEU:O	2:G:2460:LEU:HB3	2.21	0.41
2:G:2620:GLN:O	2:G:2623:LEU:HB3	2.21	0.41
2:G:2623:LEU:HD22	2:G:2674:LEU:HG	2.03	0.41
2:G:2624:ARG:NH2	2:G:2911:LEU:HA	2.36	0.41
2:G:2748:PRO:HD2	2:G:2751:LEU:HD12	2.03	0.41
2:G:2816:MET:HG2	2:G:2878:LEU:HD21	2.03	0.41
2:G:2968:ASP:O	2:G:2971:GLN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3141:THR:HG21	2:G:3192:GLU:OE1	2.20	0.41
2:G:3206:LEU:HB2	2:G:3280:TYR:OH	2.21	0.41
2:G:3225:ARG:HB3	2:G:3225:ARG:CZ	2.51	0.41
2:G:3586:ALA:HA	2:G:3591:LYS:HE2	2.03	0.41
2:G:3767:GLN:NE2	2:G:3804:ILE:O	2.54	0.41
2:G:3877:ASP:OD2	2:G:3877:ASP:N	2.48	0.41
2:B:207:SER:N	2:B:334:MET:HE1	2.36	0.41
2:B:719:LEU:HB2	2:B:720:HIS:CE1	2.55	0.41
2:B:803:LEU:HD23	2:B:804:PRO:O	2.20	0.41
2:B:805:PRO:O	2:B:808:TYR:HB2	2.21	0.41
2:B:1024:TYR:CZ	2:B:1032:LYS:HG2	2.56	0.41
2:B:1089:TYR:CD2	2:B:1152:MET:HG3	2.52	0.41
2:B:1103:GLY:HA3	2:B:1123:VAL:HA	2.03	0.41
2:B:1734:TYR:HB2	2:B:2140:ARG:O	2.20	0.41
2:B:1839:VAL:HB	2:B:1840:PRO:HD3	2.03	0.41
2:B:2447:LYS:HG3	2:B:2449:GLU:HB3	2.03	0.41
2:B:2498:HIS:O	2:B:2501:SER:OG	2.28	0.41
2:B:2700:MET:HB3	2:B:2701:PRO:HD3	2.03	0.41
2:B:2707:ALA:HB1	2:B:3009:TYR:CD1	2.37	0.41
2:B:3592:ILE:O	2:B:3596:VAL:HG12	2.21	0.41
2:B:3767:GLN:NE2	2:B:3804:ILE:O	2.54	0.41
2:B:3990:VAL:O	2:B:3993:LEU:HB2	2.21	0.41
2:B:4066:LEU:HD11	2:B:4173:TYR:CB	2.51	0.41
2:B:4226:GLY:O	2:B:4230:LYS:HG2	2.21	0.41
2:B:4656:LEU:HA	2:B:4659:ILE:HG12	2.02	0.41
2:I:35:LEU:CB	2:I:49:LEU:HD12	2.51	0.41
2:I:214:VAL:HG22	2:I:341:TYR:CE1	2.55	0.41
2:I:426:ARG:HG3	2:I:505:GLU:O	2.21	0.41
2:I:2155:LEU:HD12	2:I:2185:ILE:HD13	2.02	0.41
2:I:2211:MET:HA	2:I:2214:VAL:HG12	2.02	0.41
2:I:2475:GLN:HB2	2:I:2488:PRO:HG2	2.03	0.41
2:I:2754:PHE:CZ	2:I:2930:LEU:HG	2.56	0.41
2:I:2766:TRP:CE2	2:I:2770:LYS:HD2	2.56	0.41
2:I:3170:CYS:HA	2:I:3240:CYS:SG	2.61	0.41
2:I:3206:LEU:HA	2:I:3246:LEU:CD2	2.42	0.41
2:I:3358:PHE:CZ	2:I:3412:LEU:HD13	2.56	0.41
2:I:3372:VAL:HG21	2:I:3397:GLU:HB3	2.02	0.41
2:I:3465:ASN:OD1	2:I:3467:MET:N	2.54	0.41
2:I:3527:PRO:HA	2:I:3530:GLN:NE2	2.32	0.41
2:I:3825:GLU:OE2	2:I:3827:GLY:N	2.53	0.41
2:I:3924:LEU:HD23	2:I:3924:LEU:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3990:VAL:O	2:I:3993:LEU:HB2	2.21	0.41
2:I:4871:GLU:HG2	2:I:4871:GLU:O	2.21	0.41
2:A:21:VAL:HB	2:A:36:CYS:SG	2.61	0.41
2:A:665:GLU:OE1	2:A:800:PHE:HA	2.21	0.41
2:A:861:ILE:HG21	2:A:930:LYS:HA	2.03	0.41
2:A:1007:TYR:CG	2:A:1008:SER:N	2.88	0.41
2:A:1821:ASP:C	2:A:1824:GLN:H	2.24	0.41
2:A:2319:PRO:HD3	2:A:2393:ASP:HA	2.03	0.41
2:A:2447:LYS:HG3	2:A:2449:GLU:HB3	2.03	0.41
2:A:2612:ARG:NE	2:A:2612:ARG:HA	2.35	0.41
2:A:2620:GLN:O	2:A:2623:LEU:HB3	2.21	0.41
2:A:2623:LEU:HD22	2:A:2674:LEU:HG	2.03	0.41
2:A:2624:ARG:NH2	2:A:2911:LEU:HA	2.36	0.41
2:A:2912:THR:O	2:A:2916:LYS:N	2.46	0.41
2:A:3206:LEU:HB2	2:A:3280:TYR:OH	2.21	0.41
2:A:3733:CYS:HB2	2:A:3803:SER:HB2	2.03	0.41
2:A:3886:ARG:HA	2:A:3886:ARG:HD2	1.93	0.41
2:A:3990:VAL:O	2:A:3993:LEU:HB2	2.21	0.41
2:A:4049:VAL:HG12	2:A:4163:PHE:CE2	2.56	0.41
2:A:4152:GLU:HG2	2:A:4192:ARG:NH1	2.36	0.41
2:A:4755:GLU:O	2:A:4756:ARG:NE	2.54	0.41
2:G:820:ARG:HH11	2:G:820:ARG:HG2	1.86	0.41
2:G:949:ASN:HB3	2:G:974:HIS:CE1	2.55	0.41
2:G:1122:TYR:HE1	2:G:1133:HIS:CD2	2.39	0.41
2:G:1692:ALA:O	2:G:1693:GLN:C	2.59	0.41
2:G:1996:ARG:HD2	2:G:1997:GLU:N	2.36	0.41
2:G:2766:TRP:CE2	2:G:2770:LYS:HD2	2.56	0.41
2:G:3037:GLU:OE2	2:G:3078:ARG:NH2	2.50	0.41
2:G:3257:ALA:HB2	2:G:3322:ILE:HG13	2.03	0.41
2:G:3354:LEU:O	2:G:3358:PHE:HB3	2.20	0.41
2:G:3580:PRO:HA	2:G:3582:ARG:HH11	1.86	0.41
2:G:4049:VAL:HG12	2:G:4163:PHE:CE2	2.56	0.41
2:G:4716:TRP:CZ2	6:G:5304:CFF:H143	2.56	0.41
2:G:4960:ILE:HD13	2:G:4983:HIS:HB3	2.03	0.41
2:B:102:LEU:HB2	2:B:105:HIS:HD2	1.85	0.41
2:B:207:SER:OG	2:B:208:CYS:N	2.54	0.41
2:B:341:TYR:OH	2:B:392:ARG:HD3	2.20	0.41
2:B:378:LEU:HD23	2:B:378:LEU:HA	1.85	0.41
2:B:1739:THR:O	2:B:1742:THR:HG22	2.20	0.41
2:B:1808:ARG:HG3	2:B:1854:PHE:CE1	2.56	0.41
2:B:1996:ARG:HD2	2:B:1997:GLU:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2186:MET:SD	2:B:2235:PHE:HD2	2.44	0.41
2:B:2457:LEU:HD22	2:B:2505:PHE:HE1	1.86	0.41
2:B:2624:ARG:HH21	2:B:2911:LEU:HA	1.86	0.41
2:B:2670:GLU:HG2	2:B:2913:ALA:H	1.86	0.41
2:B:3540:TYR:CD2	2:B:3549:VAL:HG11	2.56	0.41
2:B:3577:ARG:NE	2:B:3577:ARG:HA	2.36	0.41
2:B:3586:ALA:HA	2:B:3591:LYS:HE2	2.03	0.41
2:B:4039:MET:SD	2:B:4040:ILE:HG12	2.60	0.41
2:I:297:GLN:HB3	2:I:300:VAL:HG13	2.02	0.41
2:I:980:ALA:O	2:I:983:THR:HB	2.21	0.41
2:I:1692:ALA:O	2:I:1693:GLN:C	2.59	0.41
2:I:2186:MET:SD	2:I:2235:PHE:HD2	2.44	0.41
2:I:2319:PRO:HD3	2:I:2393:ASP:HA	2.03	0.41
2:I:2620:GLN:O	2:I:2623:LEU:HB3	2.21	0.41
2:I:2860:PRO:HG3	2:I:2929:PHE:HE1	1.84	0.41
2:I:3390:GLY:HA2	2:I:3393:LEU:HD12	2.02	0.41
2:I:3903:LEU:HD23	2:I:3903:LEU:HA	1.80	0.41
2:I:3944:GLU:CG	2:I:3947:GLY:H	2.34	0.41
2:A:207:SER:OG	2:A:208:CYS:N	2.54	0.40
2:A:990:GLU:HG2	2:A:1024:TYR:CB	2.52	0.40
2:A:1286:MET:HE2	2:A:1286:MET:HB3	1.97	0.40
2:A:2648:TYR:HB2	2:A:2705:ALA:HB1	2.03	0.40
2:A:2967:MET:O	2:A:2971:GLN:HG2	2.21	0.40
2:A:3069:HIS:ND1	2:A:3142:THR:HG21	2.36	0.40
2:A:3358:PHE:CZ	2:A:3412:LEU:HD13	2.56	0.40
2:A:3934:TYR:HB2	2:A:3999:MET:HE2	2.01	0.40
2:A:4071:ILE:HG13	2:A:4072:VAL:N	2.35	0.40
2:A:4656:LEU:HA	2:A:4659:ILE:HG12	2.02	0.40
2:G:861:ILE:HG21	2:G:930:LYS:HA	2.03	0.40
2:G:1007:TYR:CG	2:G:1008:SER:N	2.88	0.40
2:G:1024:TYR:CZ	2:G:1032:LYS:HG2	2.56	0.40
2:G:1691:GLN:NE2	2:G:1695:LEU:HD11	2.36	0.40
2:G:2719:TYR:OH	2:G:2953:LYS:O	2.26	0.40
2:G:3577:ARG:HA	2:G:3577:ARG:NE	2.36	0.40
2:G:3725:TYR:HA	2:G:3728:ILE:HD12	2.02	0.40
2:G:3965:LEU:HD13	2:G:3968:TYR:HD2	1.86	0.40
2:G:4229:GLU:HG2	2:G:5019:TRP:CD1	2.56	0.40
2:B:320:LYS:HD3	2:B:356:TRP:CZ3	2.56	0.40
2:B:870:ILE:HD11	2:B:1049:TYR:CD2	2.56	0.40
2:B:2244:ARG:CZ	2:B:3860:ASN:HD21	2.34	0.40
2:B:2297:LYS:O	2:B:2301:TYR:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2368:LEU:HD12	2:B:2368:LEU:HA	1.86	0.40
2:B:2967:MET:HE1	2:B:3045:LYS:HB3	2.03	0.40
2:B:3225:ARG:O	2:B:3225:ARG:NH2	2.54	0.40
2:B:3249:LEU:O	2:B:3253:ILE:HG23	2.20	0.40
2:B:3937:TYR:CE1	2:B:3943:ILE:HB	2.57	0.40
2:B:3965:LEU:HD13	2:B:3968:TYR:HD2	1.86	0.40
2:I:181:HIS:HA	2:I:198:THR:CG2	2.50	0.40
2:I:861:ILE:HG21	2:I:930:LYS:HA	2.03	0.40
2:I:949:ASN:HB3	2:I:974:HIS:CE1	2.55	0.40
2:I:1433:TYR:CD1	2:I:1573:MET:HB2	2.56	0.40
2:I:2457:LEU:O	2:I:2460:LEU:HB3	2.21	0.40
2:I:2512:ILE:HG22	2:I:2517:PHE:CD2	2.55	0.40
2:I:2648:TYR:HB2	2:I:2705:ALA:HB1	2.03	0.40
2:I:3123:LYS:HB2	2:I:3124:GLY:H	1.76	0.40
2:I:3540:TYR:HE2	2:I:3549:VAL:HG21	1.86	0.40
2:I:3580:PRO:HA	2:I:3582:ARG:HH11	1.86	0.40
2:I:4152:GLU:HG2	2:I:4192:ARG:NH1	2.36	0.40
2:A:320:LYS:HD3	2:A:356:TRP:CZ3	2.56	0.40
2:A:866:HIS:NE2	2:A:939:VAL:HG23	2.36	0.40
2:A:1692:ALA:O	2:A:1693:GLN:C	2.59	0.40
2:A:2290:LEU:HA	2:A:2290:LEU:HD23	1.85	0.40
2:A:2624:ARG:HH21	2:A:2911:LEU:HA	1.86	0.40
2:A:3225:ARG:CZ	2:A:3225:ARG:HB3	2.51	0.40
2:A:3723:MET:HE3	2:A:3723:MET:HB3	1.96	0.40
2:A:4716:TRP:CZ2	6:A:5304:CFF:H143	2.56	0.40
2:A:4871:GLU:HG2	2:A:4871:GLU:O	2.21	0.40
2:G:178:ARG:HB2	2:G:193:ALA:HB1	2.03	0.40
2:G:297:GLN:HB3	2:G:300:VAL:HG13	2.02	0.40
2:G:615:ARG:NH2	2:G:2168:VAL:HG21	2.28	0.40
2:G:1292:SER:HB3	2:G:1596:GLU:HG2	2.03	0.40
2:G:1477:GLY:HA2	2:G:1483:VAL:HA	2.01	0.40
2:G:2284:ASN:HB2	2:G:3858:MET:SD	2.61	0.40
2:G:2416:VAL:HG22	2:G:2417:HIS:N	2.37	0.40
2:G:3540:TYR:CD2	2:G:3549:VAL:HG11	2.57	0.40
2:G:3554:GLN:OE1	2:G:3593:VAL:HG11	2.22	0.40
2:G:3990:VAL:O	2:G:3993:LEU:HB2	2.21	0.40
2:B:33:LEU:O	2:B:34:LYS:HD2	2.21	0.40
2:B:178:ARG:HB2	2:B:193:ALA:HB1	2.03	0.40
2:B:316:PHE:HD1	2:B:346:CYS:SG	2.45	0.40
2:B:990:GLU:HG2	2:B:1024:TYR:CB	2.52	0.40
2:B:1634:LEU:HD12	2:B:1634:LEU:HA	1.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1691:GLN:NE2	2:B:1695:LEU:HD11	2.36	0.40
2:B:1692:ALA:O	2:B:1693:GLN:C	2.59	0.40
2:B:1771:LEU:HD12	2:B:1771:LEU:HA	1.97	0.40
2:B:2620:GLN:O	2:B:2623:LEU:HB3	2.21	0.40
2:B:2623:LEU:O	2:B:2627:VAL:HG23	2.21	0.40
2:B:2766:TRP:CE2	2:B:2770:LYS:HD2	2.56	0.40
2:B:3015:LEU:HB3	2:B:3025:LEU:O	2.20	0.40
2:B:3733:CYS:HB2	2:B:3803:SER:HB2	2.03	0.40
2:B:4234:PHE:CD1	2:B:4237:PHE:HD2	2.39	0.40
2:B:4885:PHE:O	2:B:4889:VAL:HG12	2.21	0.40
2:I:1771:LEU:HG	2:I:2153:MET:HE1	2.03	0.40
2:I:1839:VAL:HB	2:I:1840:PRO:HD3	2.03	0.40
2:I:2096:GLU:HB3	2:I:2100:HIS:CE1	2.57	0.40
2:I:2284:ASN:HB2	2:I:3858:MET:SD	2.61	0.40
2:I:2416:VAL:HG22	2:I:2417:HIS:N	2.37	0.40
2:I:2624:ARG:NH2	2:I:2911:LEU:HA	2.36	0.40
2:I:2967:MET:O	2:I:2971:GLN:HG2	2.21	0.40
2:I:4242:ILE:HD11	2:I:4989:MET:SD	2.61	0.40
2:I:4755:GLU:O	2:I:4756:ARG:NE	2.54	0.40
2:I:4885:PHE:O	2:I:4889:VAL:HG12	2.21	0.40
2:A:341:TYR:OH	2:A:392:ARG:HD3	2.20	0.40
2:A:1679:ASN:ND2	2:A:1797:ARG:O	2.53	0.40
2:A:1734:TYR:HB2	2:A:2140:ARG:O	2.20	0.40
2:A:1808:ARG:HG3	2:A:1854:PHE:CE1	2.56	0.40
2:A:2366:PRO:HA	2:A:2369:ARG:NE	2.36	0.40
2:A:3257:ALA:HB2	2:A:3322:ILE:HG13	2.03	0.40
2:A:4150:LEU:HA	2:A:4150:LEU:HD23	1.82	0.40
2:A:4221:VAL:HG13	2:A:4222:VAL:N	2.36	0.40
2:A:4960:ILE:HD13	2:A:4983:HIS:HB3	2.03	0.40
2:G:906:CYS:HA	2:G:963:ASN:OD1	2.21	0.40
2:G:2519:LEU:HD21	2:G:2575:ARG:HE	1.85	0.40
2:G:2749:GLU:OE2	2:G:2749:GLU:N	2.46	0.40
2:G:3970:GLN:HE22	2:G:5004:THR:HA	1.86	0.40
2:B:866:HIS:NE2	2:B:939:VAL:HG23	2.36	0.40
2:B:1668:ARG:HE	2:B:1668:ARG:HB3	1.69	0.40
2:B:2096:GLU:HB3	2:B:2100:HIS:CE1	2.57	0.40
2:B:2886:TRP:O	2:B:2890:LYS:HG2	2.21	0.40
2:B:3123:LYS:HB2	2:B:3124:GLY:H	1.76	0.40
2:B:3170:CYS:HA	2:B:3240:CYS:SG	2.61	0.40
2:B:3604:TYR:O	2:B:3608:GLN:HG2	2.21	0.40
2:B:4242:ILE:HD11	2:B:4989:MET:SD	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4843:LEU:HD23	2:B:4928:LEU:HD11	2.03	0.40
2:I:320:LYS:HD3	2:I:356:TRP:CZ3	2.56	0.40
2:I:820:ARG:HH11	2:I:820:ARG:HG2	1.86	0.40
2:I:887:ILE:HD11	2:I:960:MET:CE	2.51	0.40
2:I:3225:ARG:HB3	2:I:3225:ARG:CZ	2.51	0.40
2:I:3527:PRO:O	2:I:3530:GLN:OE1	2.40	0.40
2:I:4049:VAL:HG12	2:I:4163:PHE:CE2	2.56	0.40
2:I:4066:LEU:HD11	2:I:4173:TYR:CB	2.51	0.40
2:I:4221:VAL:HG13	2:I:4222:VAL:N	2.36	0.40
2:I:4226:GLY:O	2:I:4230:LYS:HG2	2.21	0.40
2:I:4716:TRP:CZ2	6:I:5304:CFF:H143	2.56	0.40
2:I:4960:ILE:HD13	2:I:4983:HIS:HB3	2.03	0.40
2:A:149:THR:HG22	2:A:150:MET:N	2.30	0.40
2:A:153:ALA:HB3	2:A:168:ASP:HB2	2.04	0.40
2:A:178:ARG:HB2	2:A:193:ALA:HB1	2.03	0.40
2:A:316:PHE:HD1	2:A:346:CYS:SG	2.45	0.40
2:A:887:ILE:HD11	2:A:960:MET:CE	2.51	0.40
2:A:3225:ARG:NH2	2:A:3225:ARG:O	2.54	0.40
2:A:3580:PRO:HA	2:A:3582:ARG:HH11	1.86	0.40
2:A:3725:TYR:HA	2:A:3728:ILE:HD12	2.02	0.40
2:A:4242:ILE:HD11	2:A:4989:MET:SD	2.62	0.40
2:A:4646:LEU:HD23	2:A:4646:LEU:HA	1.85	0.40
1:H:52:LYS:HB3	1:H:52:LYS:HE2	1.76	0.40
2:G:33:LEU:O	2:G:34:LYS:HD2	2.21	0.40
2:G:215:THR:OG1	2:G:218:HIS:NE2	2.53	0.40
2:G:1821:ASP:C	2:G:1824:GLN:H	2.24	0.40
2:G:2670:GLU:HG2	2:G:2913:ALA:H	1.86	0.40
2:G:3358:PHE:CZ	2:G:3412:LEU:HD13	2.56	0.40
2:G:3825:GLU:OE2	2:G:3827:GLY:N	2.53	0.40
2:G:4650:HIS:ND1	2:G:4799:SER:OG	2.46	0.40
2:B:800:PHE:HB3	2:B:802:PHE:O	2.22	0.40
2:B:1820:ARG:HA	2:B:1820:ARG:HD2	1.69	0.40
2:B:2296:GLU:HG3	2:B:2356:LEU:HD11	2.03	0.40
2:B:2416:VAL:HG22	2:B:2417:HIS:N	2.37	0.40
2:B:2457:LEU:O	2:B:2460:LEU:HB3	2.21	0.40
2:B:2555:CYS:SG	2:B:2599:GLN:HG3	2.62	0.40
2:B:3106:MET:O	2:B:3110:LEU:HG	2.22	0.40
2:B:3508:SER:O	2:B:3511:VAL:HG22	2.21	0.40
2:B:3554:GLN:OE1	2:B:3593:VAL:HG11	2.22	0.40
2:B:4716:TRP:CZ2	6:B:5304:CFF:H143	2.56	0.40
2:I:207:SER:OG	2:I:208:CYS:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:990:GLU:HG2	2:I:1024:TYR:CB	2.52	0.40
2:I:1089:TYR:CD2	2:I:1152:MET:HG3	2.52	0.40
2:I:1691:GLN:NE2	2:I:1695:LEU:HD11	2.36	0.40
2:I:2457:LEU:HD22	2:I:2505:PHE:HE1	1.86	0.40
2:I:3061:ALA:N	2:I:3062:PRO:HD2	2.37	0.40
2:I:3225:ARG:NH2	2:I:3225:ARG:O	2.54	0.40
2:I:3540:TYR:CD2	2:I:3549:VAL:HG11	2.57	0.40
2:I:4229:GLU:HG2	2:I:5019:TRP:CD1	2.56	0.40
2:I:4991:PHE:CZ	2:I:5010:VAL:HG21	2.57	0.40
2:A:1131:ARG:HB3	2:A:1139:PHE:HD1	1.87	0.40
2:A:2135:LEU:HD11	2:A:3663:LEU:HG	2.03	0.40
2:A:2416:VAL:HG22	2:A:2417:HIS:N	2.37	0.40
2:A:2449:GLU:O	2:A:2452:ARG:HG2	2.22	0.40
2:A:2531:ARG:HD2	2:A:2588:ARG:NH2	2.37	0.40
2:A:3033:ASN:HB2	2:A:3078:ARG:HH21	1.87	0.40
2:A:3402:CYS:SG	2:A:3455:GLU:HA	2.62	0.40
2:A:3586:ALA:HA	2:A:3591:LYS:HE2	2.03	0.40
2:A:3937:TYR:CE1	2:A:3943:ILE:HB	2.57	0.40
2:A:4226:GLY:O	2:A:4230:LYS:HG2	2.21	0.40
2:G:24:CYS:HB3	2:G:182:LEU:CD2	2.49	0.40
2:G:316:PHE:HD1	2:G:346:CYS:SG	2.45	0.40
2:G:341:TYR:OH	2:G:392:ARG:HD3	2.20	0.40
2:G:818:ARG:HH22	2:G:1028:ASP:HA	1.87	0.40
2:G:1649:ASP:O	2:G:1652:GLU:HB2	2.22	0.40
2:G:1808:ARG:HG3	2:G:1854:PHE:CE1	2.56	0.40
2:G:2470:ILE:HD11	2:G:2502:MET:HB2	2.03	0.40
2:G:2967:MET:O	2:G:2971:GLN:HG2	2.21	0.40
2:G:3016:TYR:O	2:G:3019:SER:OG	2.23	0.40
2:G:3214:ASN:OD1	2:G:3215:ALA:N	2.55	0.40
2:G:3944:GLU:CG	2:G:3947:GLY:H	2.34	0.40
2:G:4226:GLY:O	2:G:4230:LYS:HG2	2.21	0.40
2:G:4242:ILE:HD11	2:G:4989:MET:SD	2.62	0.40
2:G:4843:LEU:HD23	2:G:4928:LEU:HD11	2.03	0.40
2:B:49:LEU:HD13	2:B:49:LEU:HA	1.98	0.40
2:B:183:SER:HB2	2:B:190:GLN:CA	2.52	0.40
2:B:904:HIS:N	2:B:905:PRO:HD3	2.36	0.40
2:B:980:ALA:O	2:B:983:THR:HB	2.21	0.40
2:B:2199:ARG:NH2	2:B:2245:GLN:HG3	2.37	0.40
2:B:2758:PHE:CD2	2:B:2809:ILE:HG12	2.54	0.40
2:B:3070:ILE:O	2:B:3074:SER:N	2.46	0.40
2:B:3358:PHE:CZ	2:B:3412:LEU:HD13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3402:CYS:SG	2:B:3455:GLU:HA	2.62	0.40
2:B:3944:GLU:CG	2:B:3947:GLY:H	2.34	0.40
2:B:4185:GLY:HA3	2:B:4189:ARG:N	2.36	0.40
2:B:4991:PHE:CZ	2:B:5010:VAL:HG21	2.56	0.40
2:I:33:LEU:O	2:I:34:LYS:HD2	2.21	0.40
2:I:102:LEU:HB2	2:I:105:HIS:HD2	1.85	0.40
2:I:183:SER:HB2	2:I:190:GLN:CA	2.52	0.40
2:I:1668:ARG:HE	2:I:1668:ARG:HB3	1.69	0.40
2:I:2244:ARG:CZ	2:I:3860:ASN:HD21	2.34	0.40
2:I:2366:PRO:HA	2:I:2369:ARG:NE	2.36	0.40
2:I:3323:ILE:HG23	2:I:3335:MET:CE	2.52	0.40
2:I:3443:ILE:HG23	2:I:3605:HIS:CE1	2.55	0.40
2:I:3592:ILE:O	2:I:3596:VAL:HG12	2.21	0.40
2:I:3937:TYR:CE1	2:I:3943:ILE:HB	2.57	0.40
2:I:4045:VAL:O	2:I:4049:VAL:HG13	2.21	0.40
2:I:4093:PHE:O	2:I:4097:MET:HG2	2.22	0.40
2:I:4111:LEU:HD23	2:I:4111:LEU:HA	1.84	0.40
2:I:4646:LEU:HD23	2:I:4646:LEU:HA	1.85	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%)	96 (91%)	9 (9%)	0	100	100
1	H	105/108 (97%)	96 (91%)	9 (9%)	0	100	100
1	J	105/108 (97%)	96 (91%)	9 (9%)	0	100	100
1	O	105/108 (97%)	96 (91%)	9 (9%)	0	100	100
2	A	4256/5037 (84%)	3938 (92%)	314 (7%)	4 (0%)	48	81
2	B	4256/5037 (84%)	3936 (92%)	316 (7%)	4 (0%)	48	81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	G	4256/5037 (84%)	3939 (93%)	313 (7%)	4 (0%)	48	81
2	I	4256/5037 (84%)	3940 (93%)	312 (7%)	4 (0%)	48	81
All	All	17444/20580 (85%)	16137 (92%)	1291 (7%)	16 (0%)	50	81

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	3876	ALA
2	G	3876	ALA
2	B	3876	ALA
2	I	3876	ALA
2	A	1783	VAL
2	G	1783	VAL
2	B	1783	VAL
2	I	1783	VAL
2	A	3896	ASN
2	G	3896	ASN
2	B	3896	ASN
2	I	3896	ASN
2	A	1780	PRO
2	G	1780	PRO
2	B	1780	PRO
2	I	1780	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%)	79 (90%)	9 (10%)	6	22
1	H	88/89 (99%)	79 (90%)	9 (10%)	6	22
1	J	88/89 (99%)	79 (90%)	9 (10%)	6	22
1	O	88/89 (99%)	79 (90%)	9 (10%)	6	22
2	A	3732/4276 (87%)	3702 (99%)	30 (1%)	79	84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	3732/4276 (87%)	3702 (99%)	30 (1%)	79	84
2	G	3732/4276 (87%)	3702 (99%)	30 (1%)	79	84
2	I	3732/4276 (87%)	3702 (99%)	30 (1%)	79	84
All	All	15280/17460 (88%)	15124 (99%)	156 (1%)	71	81

All (156) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	5	GLU
1	F	21	THR
1	F	25	HIS
1	F	37	ASP
1	F	38	SER
1	F	44	LYS
1	F	49	ARG
1	F	54	GLU
1	F	106	LEU
2	A	749	ASP
2	A	750	LEU
2	A	754	SER
2	A	755	ILE
2	A	877	ASN
2	A	1020	ARG
2	A	1623	ARG
2	A	1687	SER
2	A	1690	ASP
2	A	1691	GLN
2	A	1778	SER
2	A	1783	VAL
2	A	3053	ARG
2	A	3287	ARG
2	A	3854	GLU
2	A	3864	THR
2	A	3865	VAL
2	A	3874	VAL
2	A	3875	MET
2	A	3904	ARG
2	A	3949	ARG
2	A	3965	LEU
2	A	3966	THR
2	A	3967	GLU

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Mol	Chain	Res	Type
2	A	3969	ILE
2	A	3970	GLN
2	A	4031	LEU
2	A	4032	GLU
2	A	5001	THR
2	A	5004	THR
1	H	5	GLU
1	H	21	THR
1	H	25	HIS
1	H	37	ASP
1	H	38	SER
1	H	44	LYS
1	H	49	ARG
1	H	54	GLU
1	H	106	LEU
1	J	5	GLU
1	J	21	THR
1	J	25	HIS
1	J	37	ASP
1	J	38	SER
1	J	44	LYS
1	J	49	ARG
1	J	54	GLU
1	J	106	LEU
1	O	5	GLU
1	O	21	THR
1	O	25	HIS
1	O	37	ASP
1	O	38	SER
1	O	44	LYS
1	O	49	ARG
1	O	54	GLU
1	O	106	LEU
2	G	749	ASP
2	G	750	LEU
2	G	754	SER
2	G	755	ILE
2	G	877	ASN
2	G	1020	ARG
2	G	1623	ARG
2	G	1687	SER
2	G	1690	ASP

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Mol	Chain	Res	Type
2	G	1691	GLN
2	G	1778	SER
2	G	1783	VAL
2	G	3053	ARG
2	G	3287	ARG
2	G	3854	GLU
2	G	3864	THR
2	G	3865	VAL
2	G	3874	VAL
2	G	3875	MET
2	G	3904	ARG
2	G	3949	ARG
2	G	3965	LEU
2	G	3966	THR
2	G	3967	GLU
2	G	3969	ILE
2	G	3970	GLN
2	G	4031	LEU
2	G	4032	GLU
2	G	5001	THR
2	G	5004	THR
2	B	749	ASP
2	B	750	LEU
2	B	754	SER
2	B	755	ILE
2	B	877	ASN
2	B	1020	ARG
2	B	1623	ARG
2	B	1687	SER
2	B	1690	ASP
2	B	1691	GLN
2	B	1778	SER
2	B	1783	VAL
2	B	3053	ARG
2	B	3287	ARG
2	B	3854	GLU
2	B	3864	THR
2	B	3865	VAL
2	B	3874	VAL
2	B	3875	MET
2	B	3904	ARG
2	B	3949	ARG

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Mol	Chain	Res	Type
2	B	3965	LEU
2	B	3966	THR
2	B	3967	GLU
2	B	3969	ILE
2	B	3970	GLN
2	B	4031	LEU
2	B	4032	GLU
2	B	5001	THR
2	B	5004	THR
2	I	749	ASP
2	I	750	LEU
2	I	754	SER
2	I	755	ILE
2	I	877	ASN
2	I	1020	ARG
2	I	1623	ARG
2	I	1687	SER
2	I	1690	ASP
2	I	1691	GLN
2	I	1778	SER
2	I	1783	VAL
2	I	3053	ARG
2	I	3287	ARG
2	I	3854	GLU
2	I	3864	THR
2	I	3865	VAL
2	I	3874	VAL
2	I	3875	MET
2	I	3904	ARG
2	I	3949	ARG
2	I	3965	LEU
2	I	3966	THR
2	I	3967	GLU
2	I	3969	ILE
2	I	3970	GLN
2	I	4031	LEU
2	I	4032	GLU
2	I	5001	THR
2	I	5004	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (56) such sidechains are listed below:

Mol	Chain	Res	Type
2	A	495	ASN
2	A	1299	GLN
2	A	1563	GLN
2	A	1691	GLN
2	A	2247	GLN
2	A	2417	HIS
2	A	2498	HIS
2	A	3313	ASN
2	A	3556	ASN
2	A	3900	GLN
2	A	3970	GLN
2	A	4054	ASN
2	A	4109	GLN
2	A	4946	GLN
2	G	495	ASN
2	G	1299	GLN
2	G	1563	GLN
2	G	1691	GLN
2	G	2247	GLN
2	G	2417	HIS
2	G	2498	HIS
2	G	3313	ASN
2	G	3556	ASN
2	G	3900	GLN
2	G	3970	GLN
2	G	4054	ASN
2	G	4109	GLN
2	G	4946	GLN
2	B	495	ASN
2	B	1299	GLN
2	B	1563	GLN
2	B	1691	GLN
2	B	2247	GLN
2	B	2417	HIS
2	B	2498	HIS
2	B	3313	ASN
2	B	3556	ASN
2	B	3900	GLN
2	B	3970	GLN
2	B	4054	ASN
2	B	4109	GLN
2	B	4946	GLN
2	I	495	ASN

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Mol	Chain	Res	Type
2	I	1299	GLN
2	I	1563	GLN
2	I	1691	GLN
2	I	2247	GLN
2	I	2417	HIS
2	I	2498	HIS
2	I	3313	ASN
2	I	3556	ASN
2	I	3900	GLN
2	I	3970	GLN
2	I	4054	ASN
2	I	4109	GLN
2	I	4946	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 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	G	5304	-	8,15,15	2.20	4 (50%)	8,23,23	1.58	1 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	CFF	A	5304	-	8,15,15	2.20	4 (50%)	8,23,23	1.57	1 (12%)
3	ATP	G	5301	-	28,33,33	0.86	0	34,52,52	1.16	2 (5%)
6	CFF	I	5304	-	8,15,15	2.20	4 (50%)	8,23,23	1.57	1 (12%)
3	ATP	B	5301	-	28,33,33	0.86	0	34,52,52	1.15	2 (5%)
3	ATP	I	5301	-	28,33,33	0.85	0	34,52,52	1.16	2 (5%)
3	ATP	A	5301	-	28,33,33	0.86	0	34,52,52	1.16	2 (5%)
6	CFF	B	5304	-	8,15,15	2.20	4 (50%)	8,23,23	1.58	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	G	5304	-	-	-	0/2/2/2
6	CFF	A	5304	-	-	-	0/2/2/2
3	ATP	G	5301	-	-	5/18/38/38	0/3/3/3
6	CFF	I	5304	-	-	-	0/2/2/2
3	ATP	B	5301	-	-	5/18/38/38	0/3/3/3
3	ATP	I	5301	-	-	5/18/38/38	0/3/3/3
3	ATP	A	5301	-	-	5/18/38/38	0/3/3/3
6	CFF	B	5304	-	-	-	0/2/2/2

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	5304	CFF	C6-N1	-3.58	1.32	1.38
6	I	5304	CFF	C6-N1	-3.55	1.32	1.38
6	A	5304	CFF	C6-N1	-3.53	1.32	1.38
6	B	5304	CFF	C5-C4	-3.52	1.33	1.39
6	B	5304	CFF	C6-N1	-3.50	1.32	1.38
6	I	5304	CFF	C5-C4	-3.50	1.33	1.39
6	A	5304	CFF	C5-C4	-3.50	1.33	1.39
6	G	5304	CFF	C5-C4	-3.48	1.33	1.39
6	B	5304	CFF	O13-C6	-2.55	1.18	1.24
6	I	5304	CFF	O13-C6	-2.54	1.18	1.24
6	A	5304	CFF	O13-C6	-2.52	1.18	1.24
6	G	5304	CFF	O13-C6	-2.50	1.18	1.24
6	I	5304	CFF	C5-C6	-2.18	1.37	1.41
6	A	5304	CFF	C5-C6	-2.17	1.37	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	5304	CFF	C5-C6	-2.17	1.37	1.41
6	G	5304	CFF	C5-C6	-2.17	1.37	1.41

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	5301	ATP	N3-C2-N1	-3.93	123.33	128.67
3	G	5301	ATP	N3-C2-N1	-3.92	123.35	128.67
3	A	5301	ATP	N3-C2-N1	-3.90	123.38	128.67
3	B	5301	ATP	N3-C2-N1	-3.85	123.45	128.67
6	B	5304	CFF	C14-N7-C8	-3.18	110.12	125.43
6	I	5304	CFF	C14-N7-C8	-3.17	110.18	125.43
6	G	5304	CFF	C14-N7-C8	-3.16	110.20	125.43
6	A	5304	CFF	C14-N7-C8	-3.16	110.20	125.43
3	G	5301	ATP	N6-C6-N1	2.22	123.07	118.33
3	I	5301	ATP	N6-C6-N1	2.22	123.07	118.33
3	A	5301	ATP	N6-C6-N1	2.22	123.07	118.33
3	B	5301	ATP	N6-C6-N1	2.19	123.02	118.33

There are no chirality outliers.

All (20) 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	C3'-C4'-C5'-O5'
3	G	5301	ATP	C3'-C4'-C5'-O5'
3	B	5301	ATP	C3'-C4'-C5'-O5'
3	I	5301	ATP	C3'-C4'-C5'-O5'
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	G	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	I	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	C4'-C5'-O5'-PA
3	G	5301	ATP	C4'-C5'-O5'-PA
3	B	5301	ATP	C4'-C5'-O5'-PA
3	I	5301	ATP	C4'-C5'-O5'-PA
3	A	5301	ATP	C5'-O5'-PA-O1A
3	G	5301	ATP	C5'-O5'-PA-O1A
3	B	5301	ATP	C5'-O5'-PA-O1A

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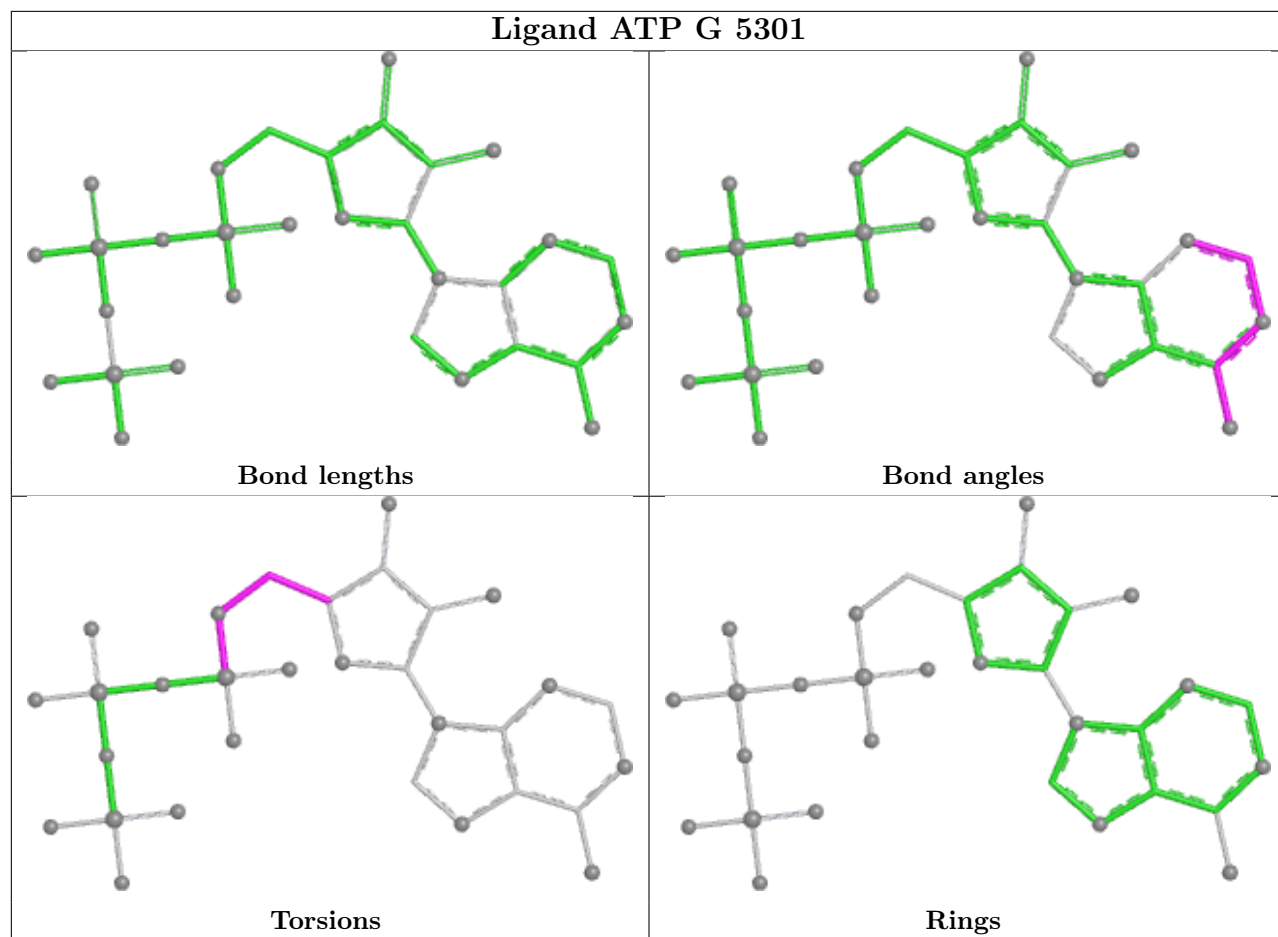
Mol	Chain	Res	Type	Atoms
3	I	5301	ATP	C5'-O5'-PA-O1A

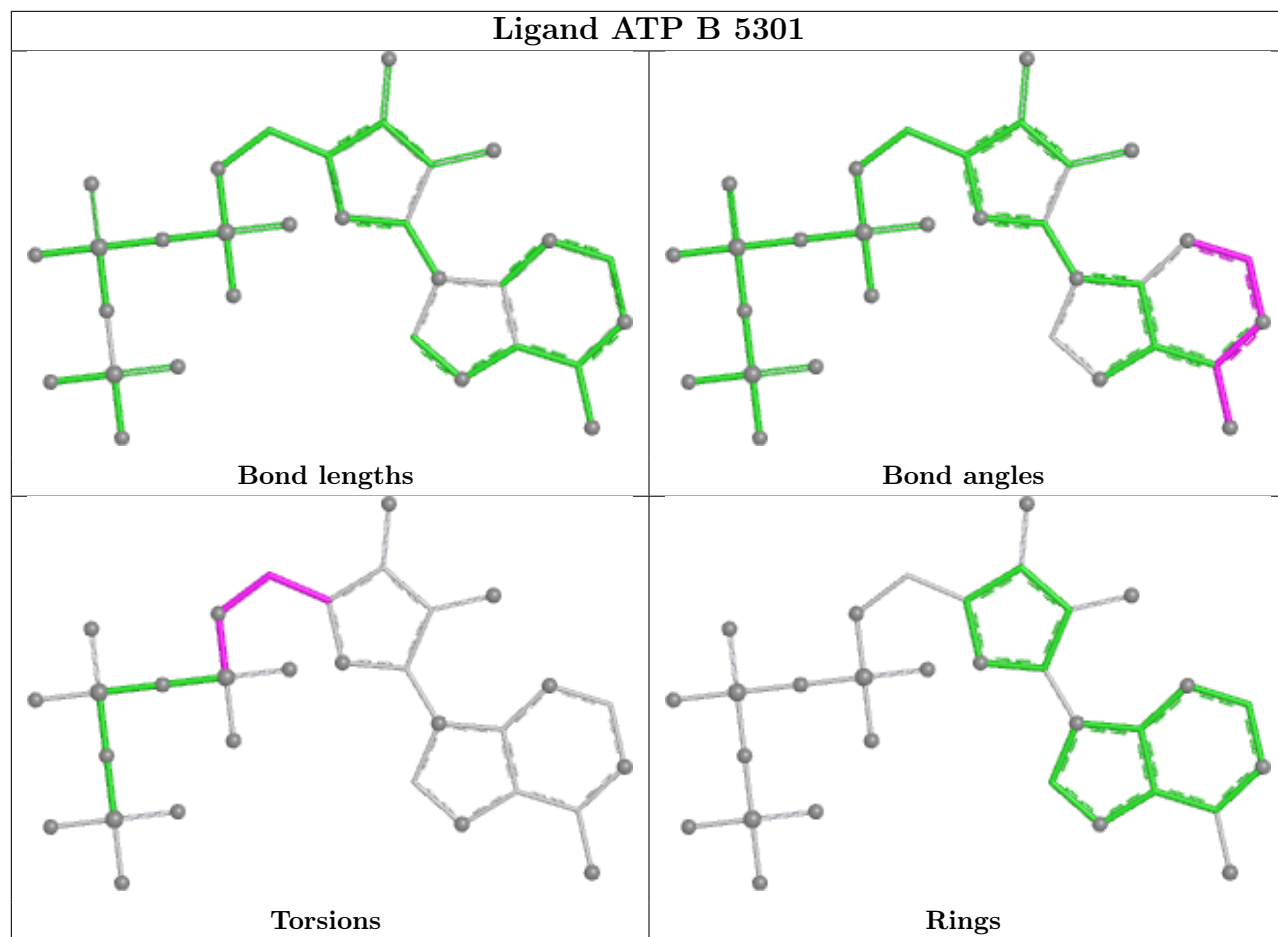
There are no ring outliers.

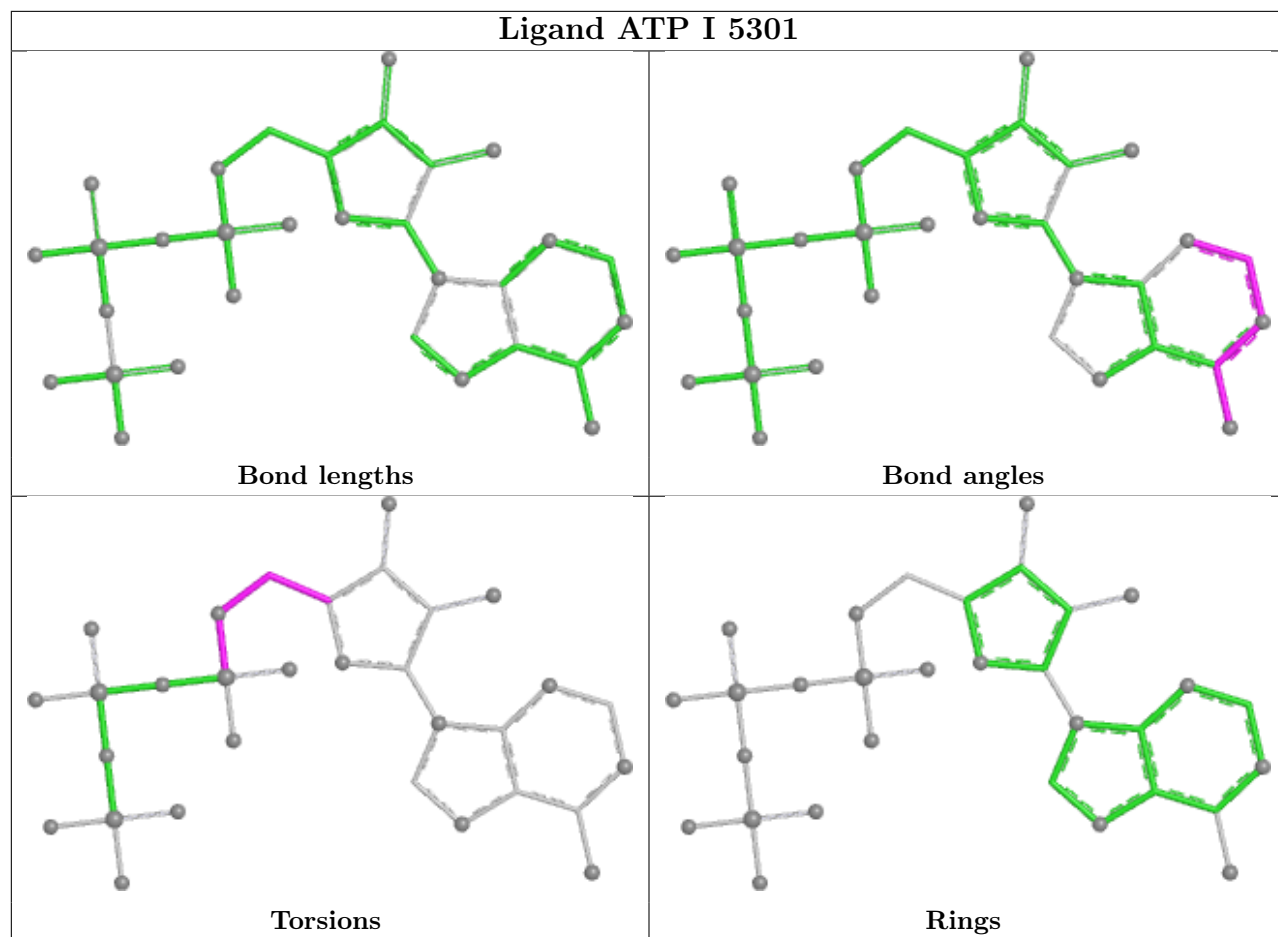
8 monomers are involved in 30 short contacts:

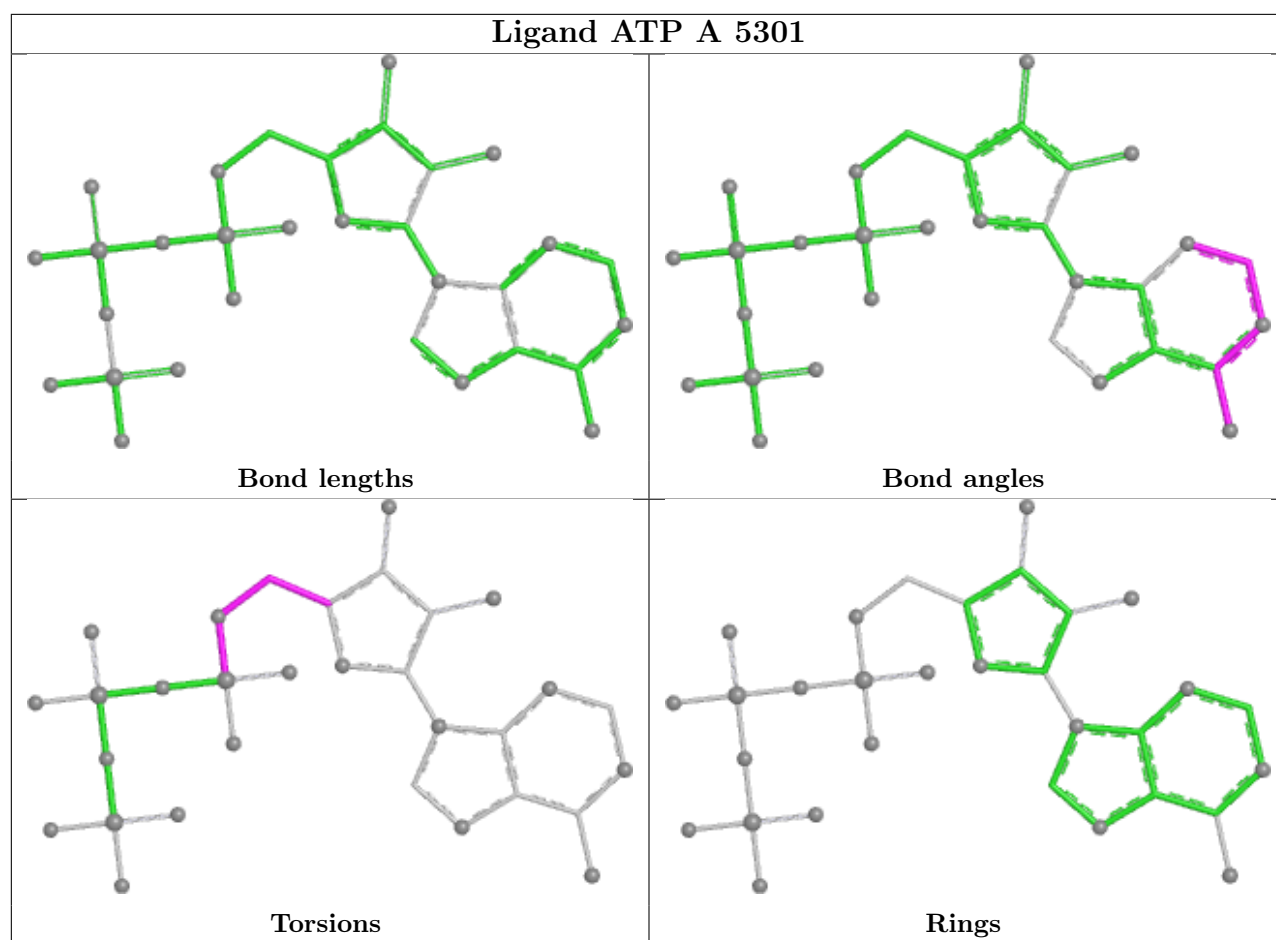
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	G	5304	CFE	2	0
6	A	5304	CFE	2	0
3	G	5301	ATP	6	0
6	I	5304	CFE	2	0
3	B	5301	ATP	5	0
3	I	5301	ATP	6	0
3	A	5301	ATP	5	0
6	B	5304	CFE	2	0

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.

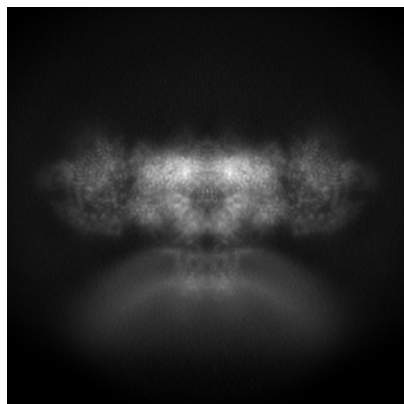
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23699. These allow visual inspection of the internal detail of the map and identification of artifacts.

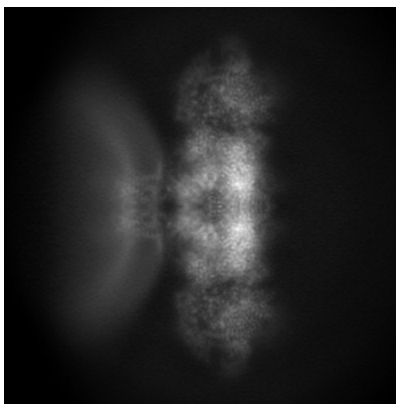
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

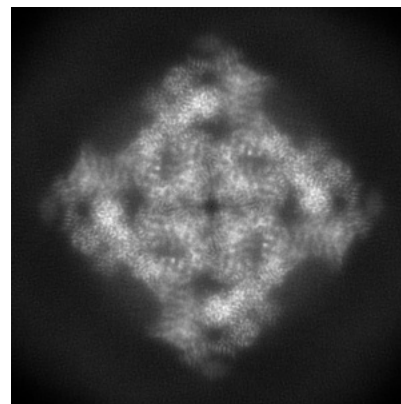
6.1.1 Primary map



X

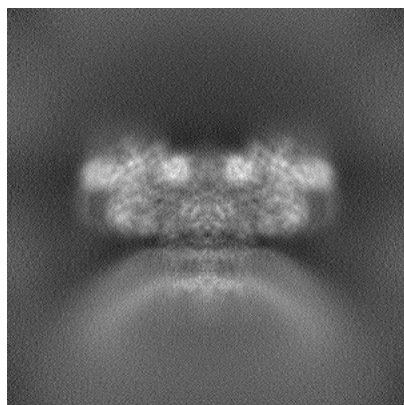


Y

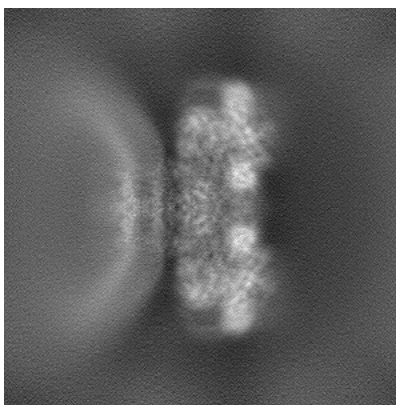


Z

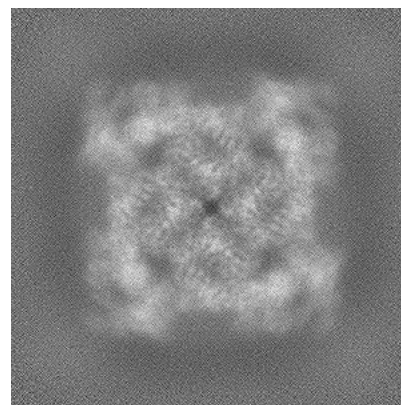
6.1.2 Raw map



X



Y

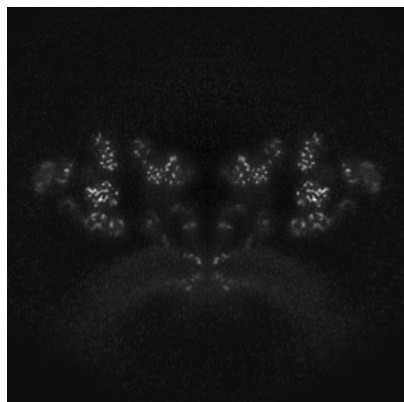


Z

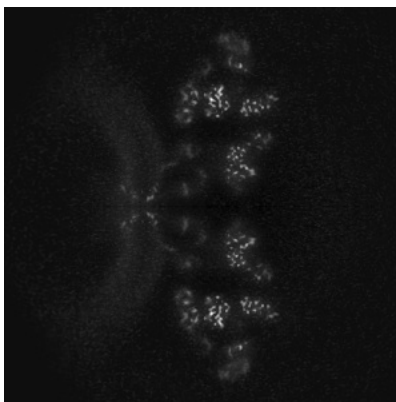
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

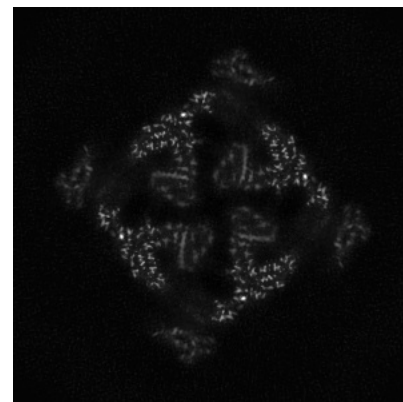
6.2.1 Primary map



X Index: 256



Y Index: 256

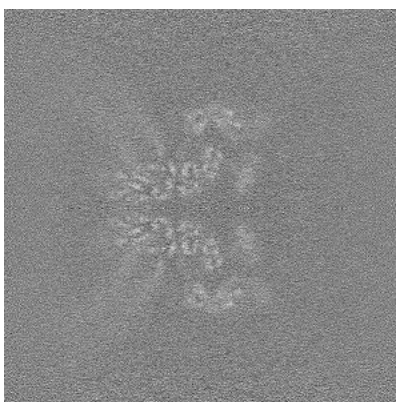


Z Index: 256

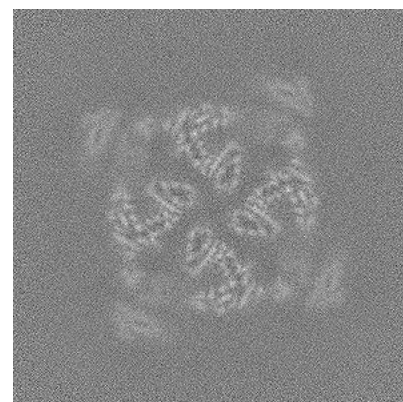
6.2.2 Raw map



X Index: 256



Y Index: 256

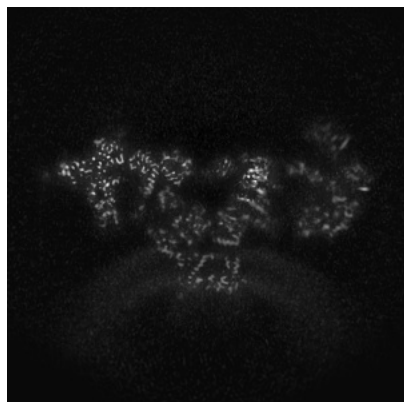


Z Index: 256

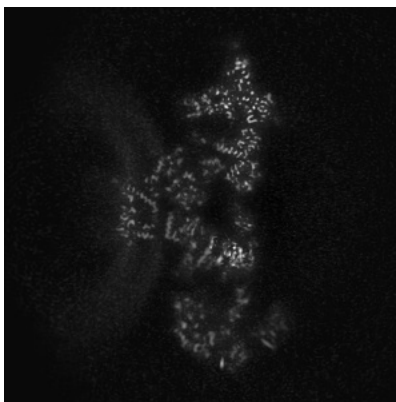
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

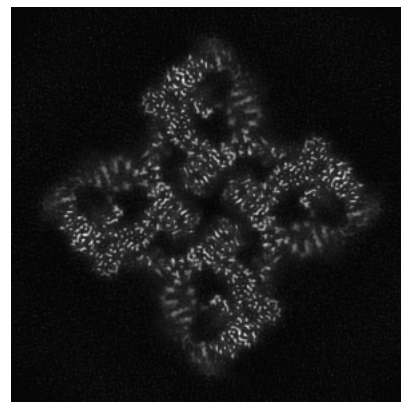
6.3.1 Primary map



X Index: 279

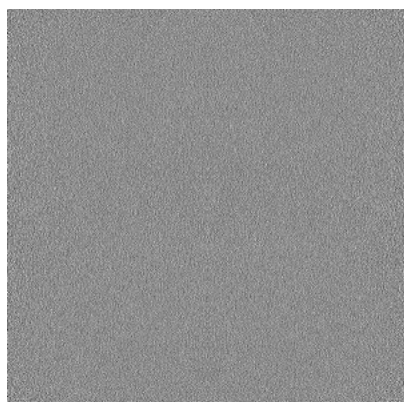


Y Index: 279

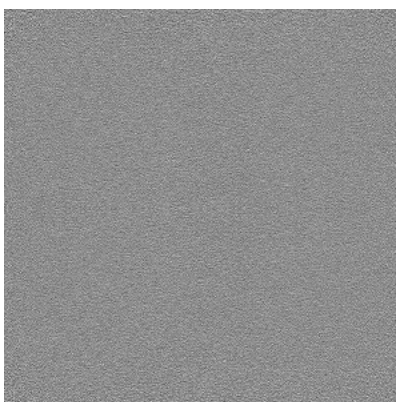


Z Index: 304

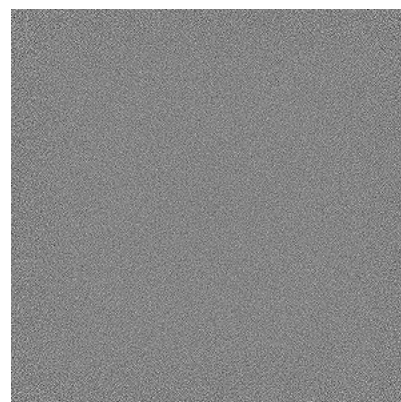
6.3.2 Raw map



X Index: 0



Y Index: 0

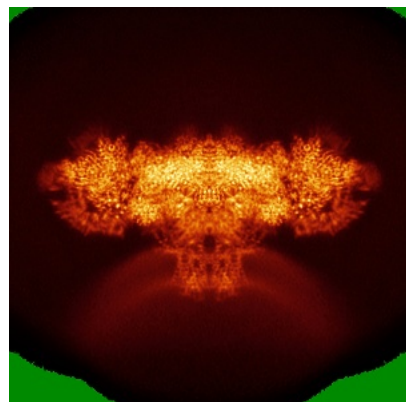


Z Index: 0

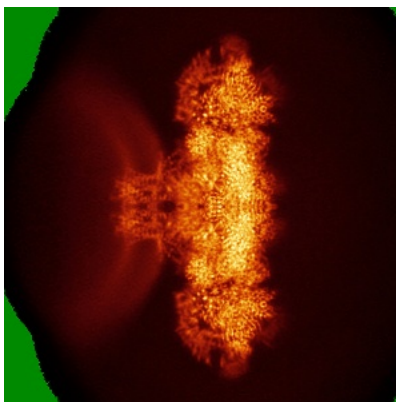
The images above show the largest variance slices of the map in three orthogonal directions.

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

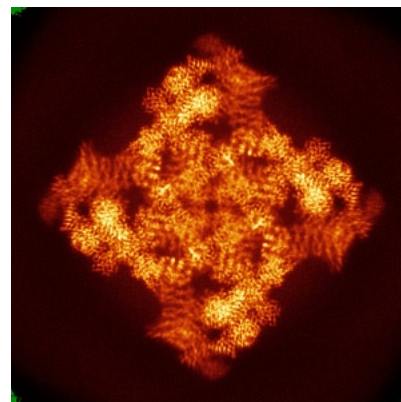
6.4.1 Primary map



X

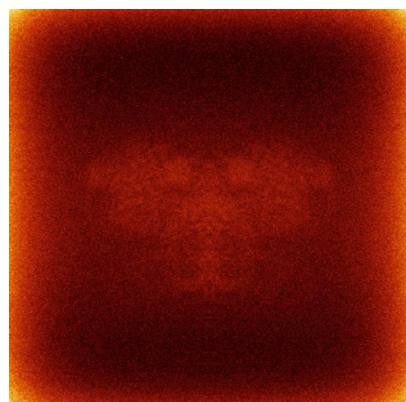


Y

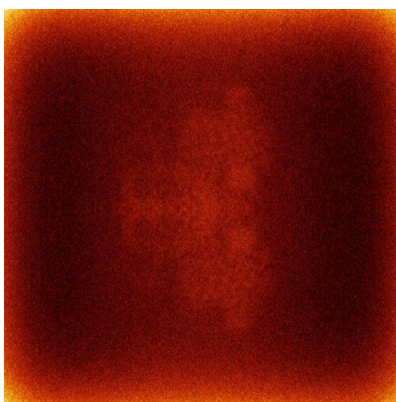


Z

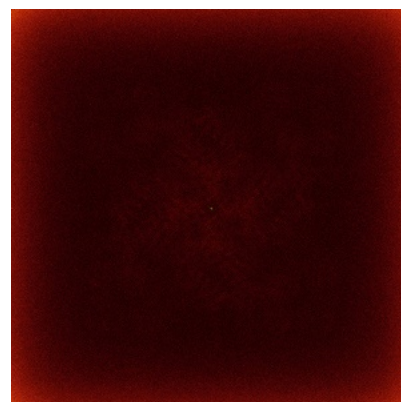
6.4.2 Raw map



X



Y



Z

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

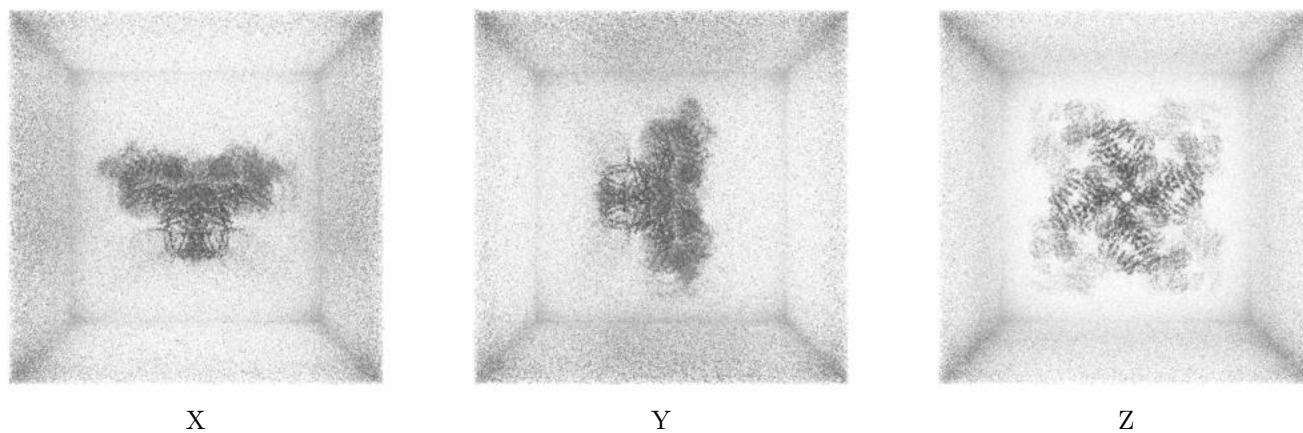
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.106. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

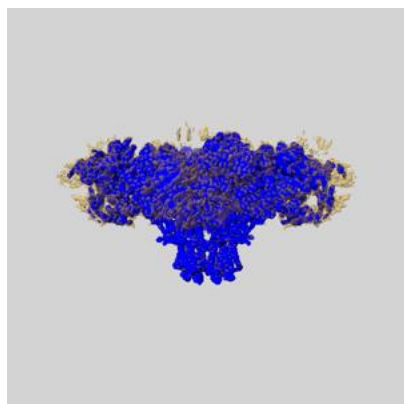
6.6 Mask visualisation [i](#)

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

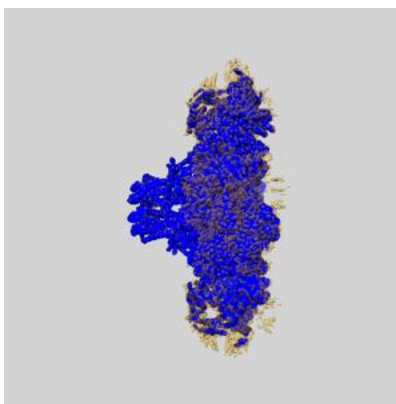
A mask typically either:

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

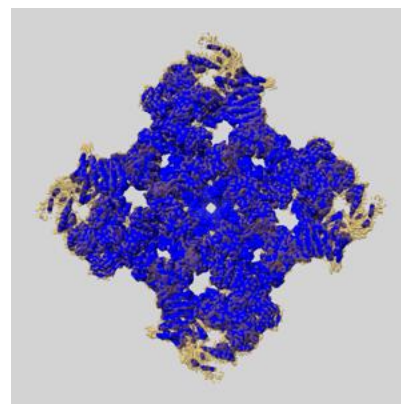
6.6.1 emd_23699_msk_1.map [i](#)



X



Y

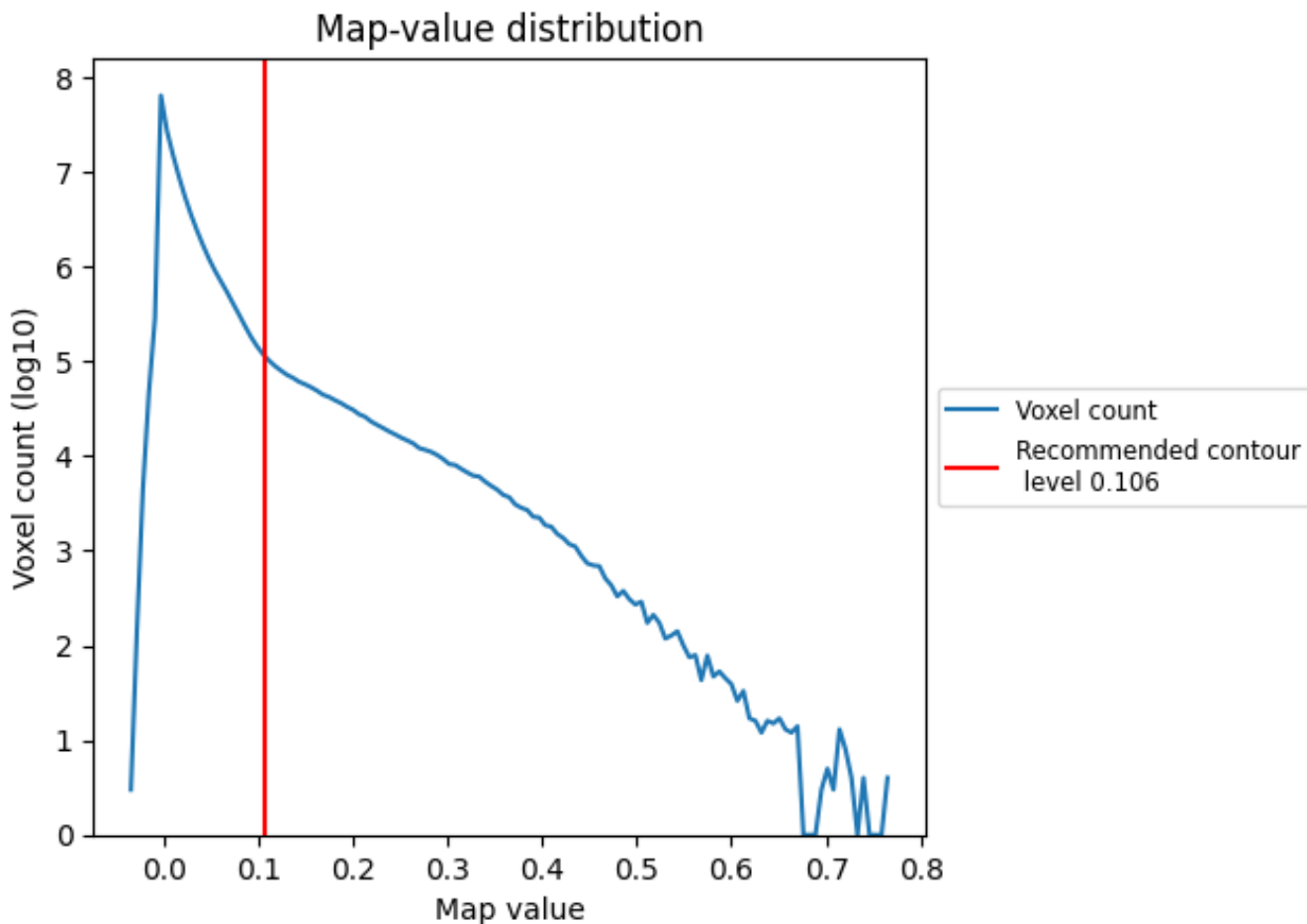


Z

7 Map analysis [i](#)

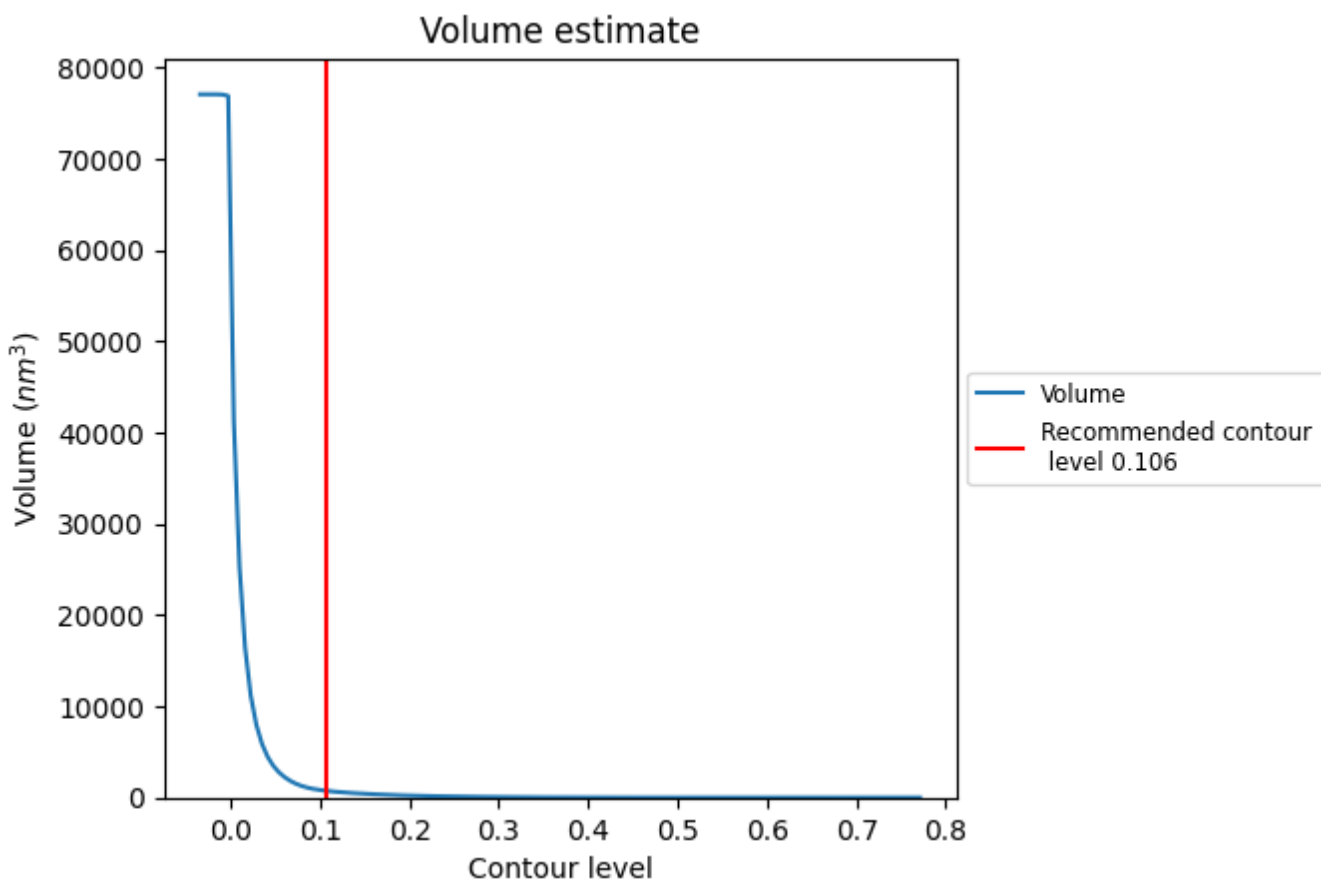
This section contains the results of statistical analysis of the map.

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.

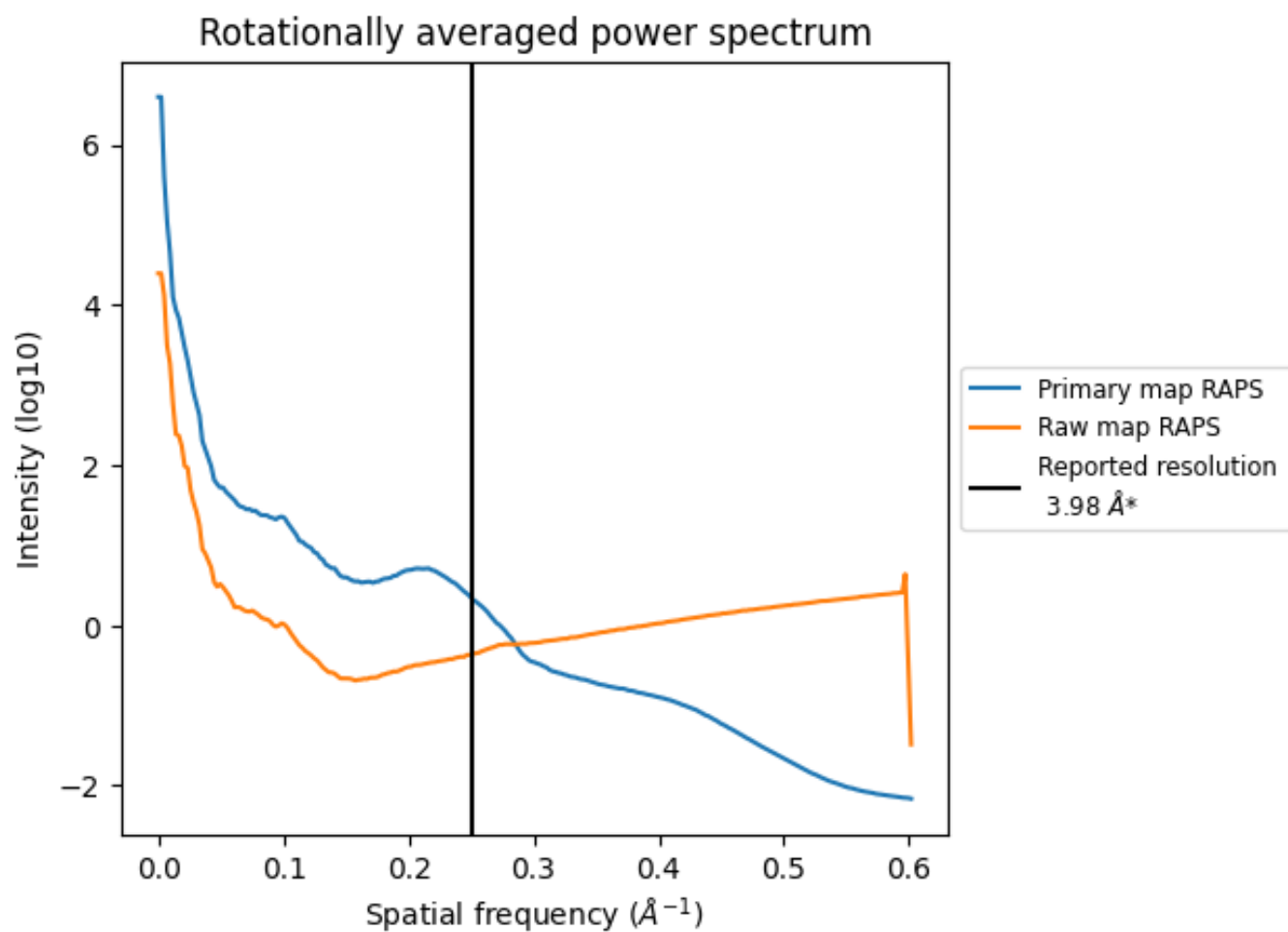
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 747 nm³; this corresponds to an approximate mass of 675 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

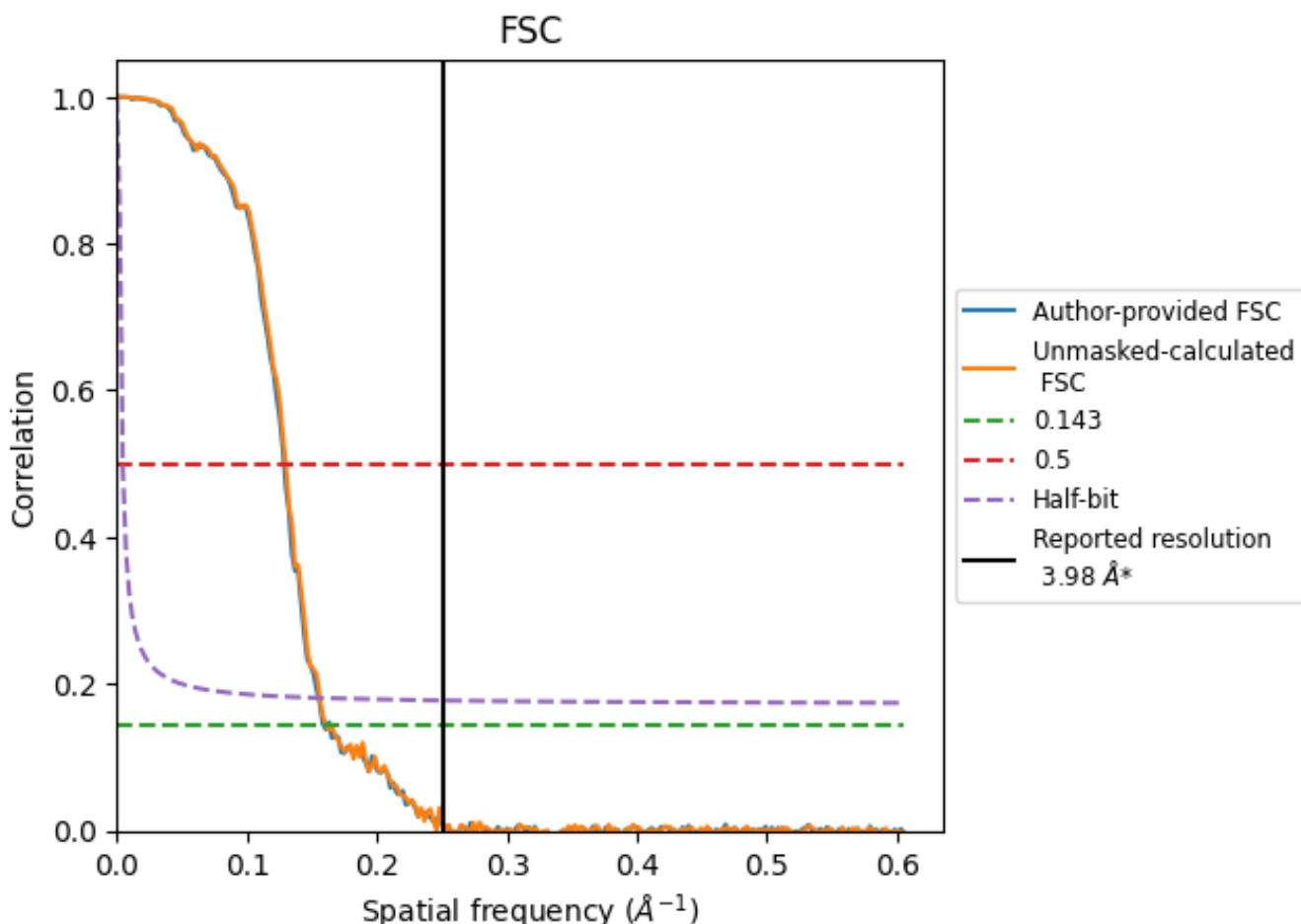


*Reported resolution corresponds to spatial frequency of 0.251 Å⁻¹

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 0.251 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.98	-	-
Author-provided FSC curve	6.28	7.78	6.44
Unmasked-calculated*	6.22	7.70	6.40

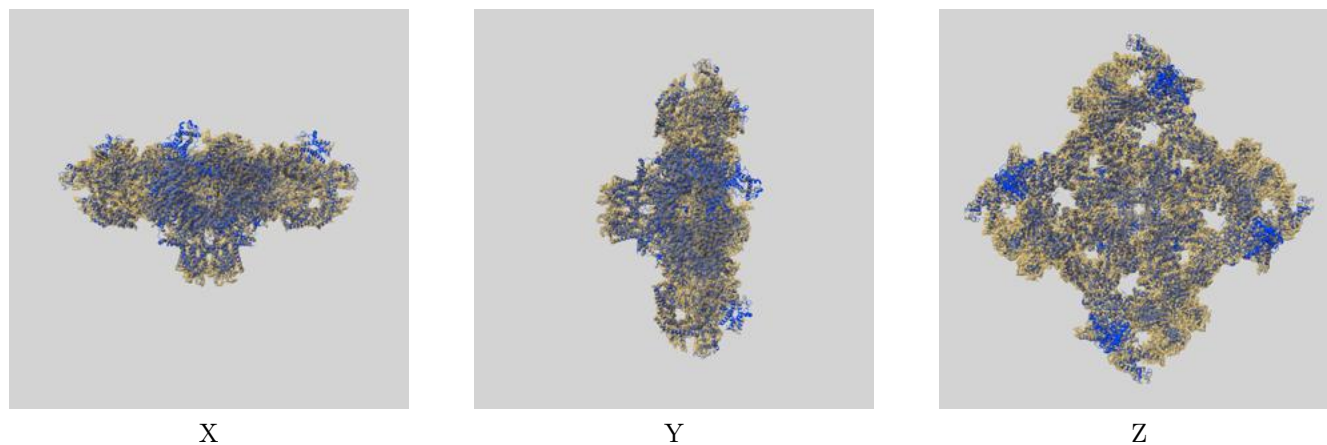
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 6.28 differs from the reported value 3.98 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.22 differs from the reported value 3.98 by more than 10 %

9 Map-model fit [i](#)

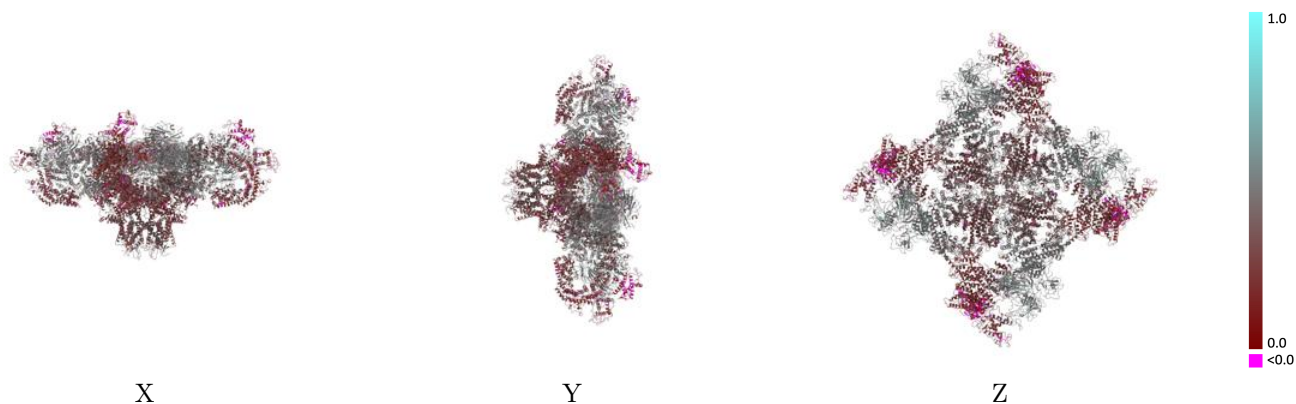
This section contains information regarding the fit between EMDB map EMD-23699 and PDB model 7M6L. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



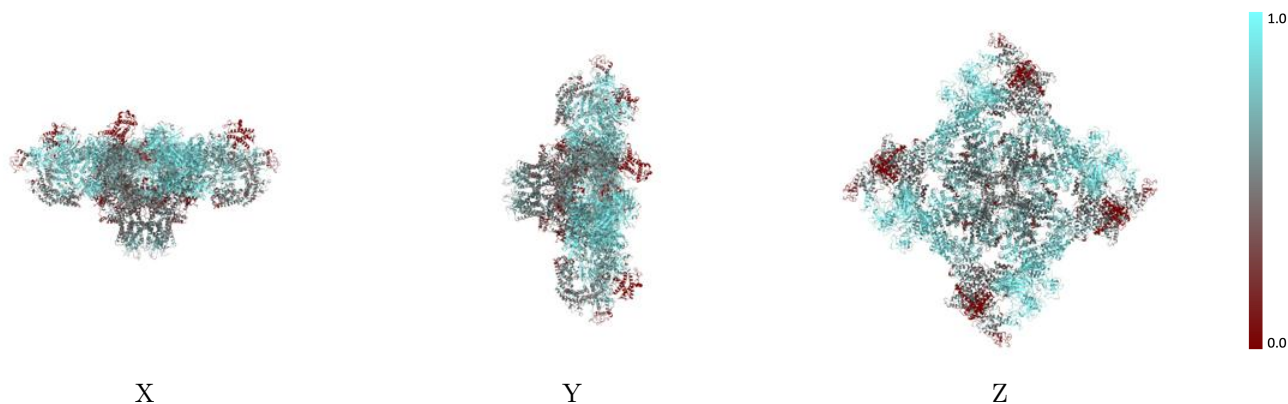
The images above show the 3D surface view of the map at the recommended contour level 0.106 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



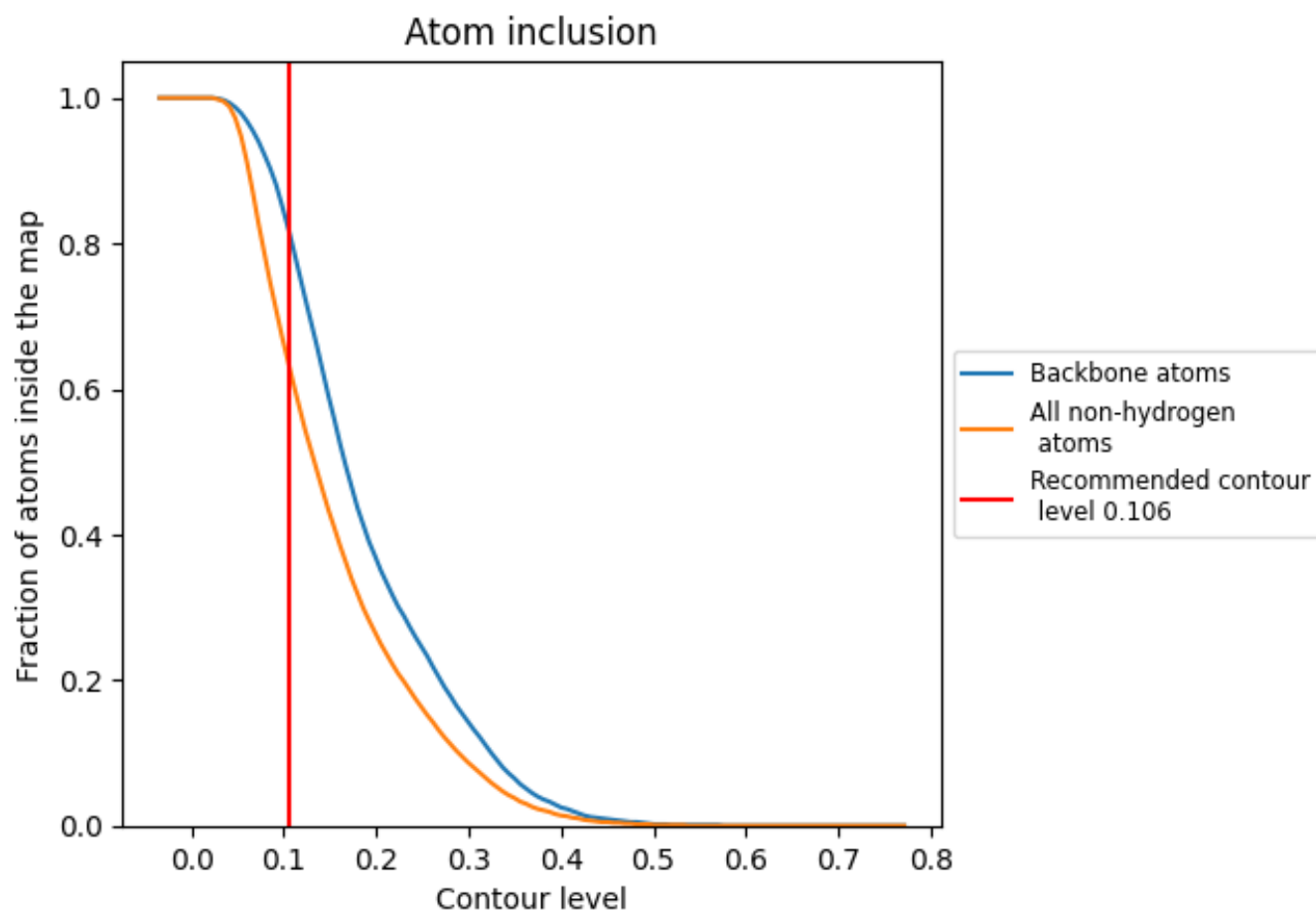
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.106).



















9.4 Atom inclusion [i](#)



At the recommended contour level, 82% of all backbone atoms, 63% 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 (0.106) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6300	 0.3560
A	 0.6280	 0.3600
B	 0.6240	 0.3500
F	 0.8110	 0.4790
G	 0.6250	 0.3500
H	 0.8000	 0.4790
I	 0.6260	 0.3500
J	 0.8100	 0.4780
O	 0.8090	 0.4800

