



Full wwPDB EM Validation Report ⓘ

Feb 13, 2024 – 08:52 PM EST

PDB ID : 3J8H
EMDB ID : EMD-2807
Title : Structure of the rabbit ryanodine receptor RyR1 in complex with FKBP12 at 3.8 Angstrom resolution
Authors : Yan, Z.; Bai, X.; Yan, C.; Wu, J.; Scheres, S.H.W.; Shi, Y.; Yan, N.
Deposited on : 2014-10-26
Resolution : 3.80 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

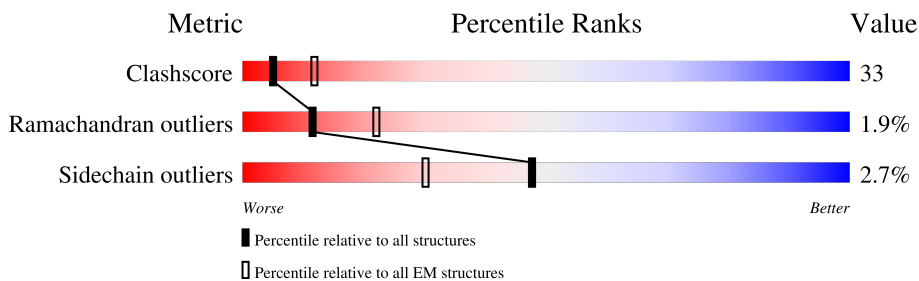
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	4599	
1	C	4599	
1	E	4599	
1	G	4599	
2	B	107	
2	D	107	
2	F	107	
2	H	107	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	ZN	A	6000	-	-	X	-
3	ZN	C	6000	-	-	X	-
3	ZN	E	6000	-	-	X	-
3	ZN	G	6000	-	-	X	-

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 111160 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	3660	26957	17143	4683	4974	157	1	0
1	C	3660	26957	17143	4683	4974	157	1	0
1	E	3660	26957	17143	4683	4974	157	1	0
1	G	3660	26957	17143	4683	4974	157	1	0

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

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

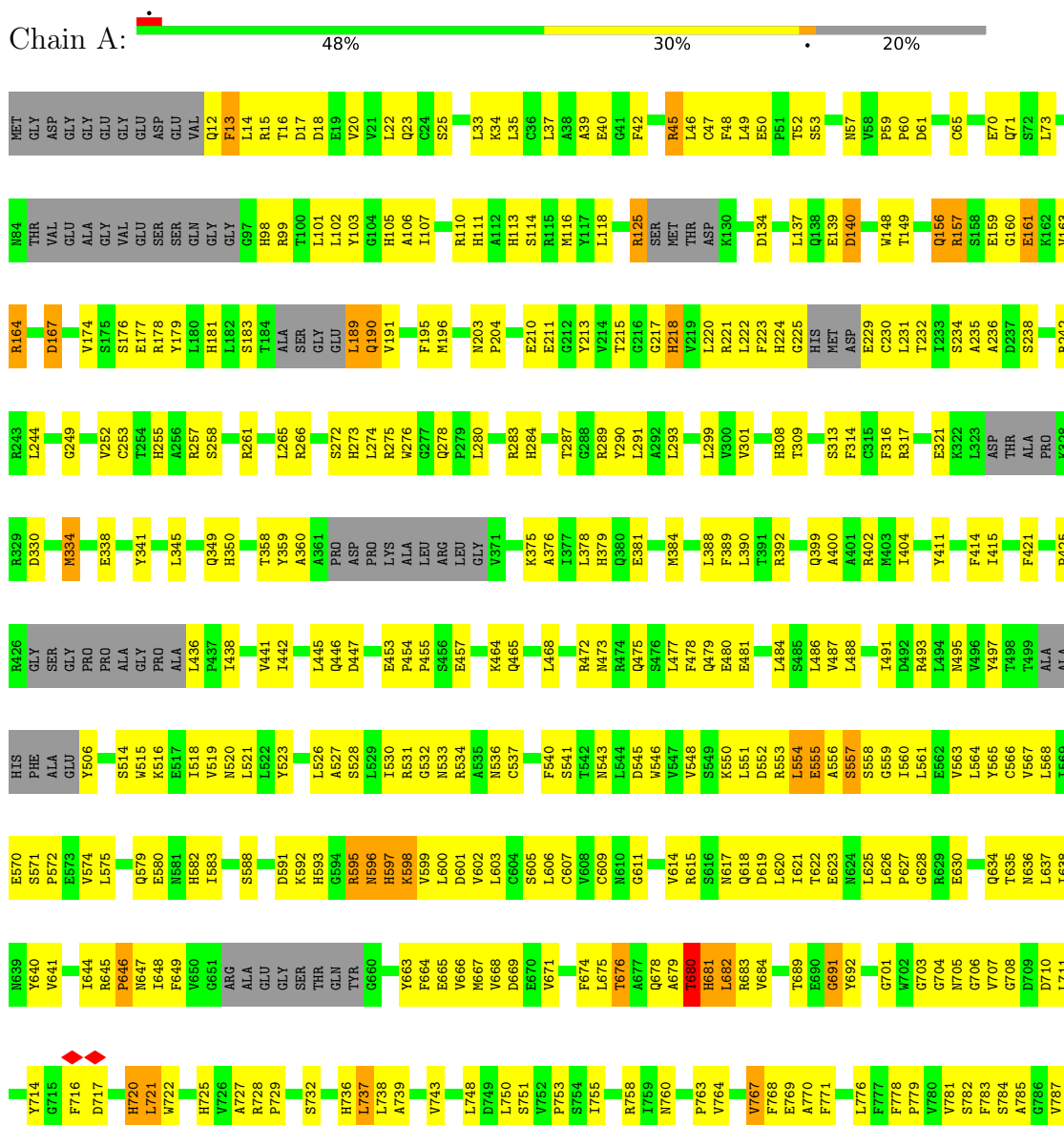
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

3 Residue-property plots

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

• Molecule 1: Ryanodine receptor 1



S8840	V3841	D3842	D3843	L3844	R3849	K3852	ALA	GLU	GLY	R3766	Q3767	S3768	R3769	R3773	GLY	VAL	GLU	GLY	GLY	M3778	V3779	L3780	Q3781	M3782	K3787	G3788	E3789	T3790	M3793	V3794	S3795	S3796	T3797	L3798	K3799	I3802	L3805	M3806	N3809	Q3813	L3817	L3820	V3826	F3828	F3829	Q3830	S3831	L3835	L3903	R3904	T3905	S1975	S2058	S2061	R2062	L2063	L2066	T2069	V2070	R2071	VAL	L2141	Y2142	T2143	T2144	S2145	P2146	E2133	L2134	L2135	R2136	A2137	L2138	P2139	R2141	A2141	Y2142	T2143	T2144	S2145	P2146	E2150	D2151	T2152	L2155	L2156	L2159	I2162	R2163	S2164	L2165	L2166	L2167	V2168	GLN	MET	C1940	S2093	L2094	Q2095	E2096	L2097	F1946	C1947	D1948	Q1952	V1955	E1956	S1957	L1958	F1961	A1962	E1963	R1964	Y1965	Y1966	L1969	N1972	H2204	E2205	V2207	M2208	E2209	V2210	M2211	V2212	M2214	V2214	L2215	G2216	GLY	GLY	THR	LYS	GLU	GLY	ILE	ARG	PHE	P2226	K2227	T2230	R2234	C2237	Y2238	F2239	G2240	R2241	I2242	Q2245	N2246	Q2247	R2248	S2249	Y2256	L2257	L2258	E2259	N2260	L2263	GLY	LEU	GLY	MET	GLN	P2195	M2196	L2197	M2198	R2199	A2200	G2201	L2202	M2203	A2277	E2278	E2279	S2280	PHE	GLY	PRO	ALA	LEU	ARG	GLY	GLY	GLY	SER	G2375	L2376	L2377	I2380	A2383	L2384	R2385	L2386	GLU	ASP	PRO	GLY	VAL	ARG	ARG	ARG	ASP	ASP	ASP	ARG	ARG	GLU	PHE	GLY	GLU	GLU	PRO	M2349	A2350	M2351	V2354	R2355	L2356	L2357	L2358	R2359	M2423	K2360	P2361	E2362	CYS	THR	PHE	GLY	PRO	ALA	LEU	ARG	GLY	GLY	GLY	SER	G2375	L2376	L2377	I2380	A2383	L2384	R2385	L2386	GLU	ASP	PRO	GLY	VAL	ARG	ARG	ARG	ASP	ASP	ARG	ARG	GLU	PHE	GLY	GLU	GLU	PRO	M2349	A2350	M2351	V2354	R2355	L2356	L2357	L2358	R2359	M2423	D2431	G2434	V2435	C2436	A2437	PRO	GLU	MET	HIS	ILE	ILE	GLN	ALA	GLY	LYS	GLY	E2449	R2452	L2453	R2454	A2455	L2456	L2457	R2458	X2465	X2466	X2467	P2496	D2497	K2499	A2500	S2501	M2502	V2503	F2505	Y2510	GLY	ILE	GLU	M2514	F2517	V2521	L2522	ASP	V2525	L2755	M2756	K2757	E2758	A2759	Y2761	E2760	T2762	H2763	L2712	N2734	F2735	R2738	P2739	V2740	E2741	T2742	L2743	M2744	V2745	I2746	I2747	P2748	E2749	K2750	L2751	D2752	S2753	L2754	L2755	M2756	K2757	E2758	A2759	Y2761	E2760	T2762	H2763	L2764	R2765	F2768	D2769	K2770	L2771	Q2772	N2773	M2774	W2775	S2776	Y2777	G2778	L2779	M2780	V2781	E2782	D2783	E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	R2792	P2793	Y2794	K2795	L2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	R2806	L2809	K2810	E2811	S2812	L2813	K2814	A2815	A2818	W2819	F2820	V2821	L2822	T2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLU	GLY	ARG	THR	GLU	LYS	LYS	THR	ARG	LYS	ILE	SER	GLN	THR	ALA	GLN	THR	Y2849	D2850	P2851	R2852	E2853	G2854	Y2855	M2856	P2857	Q2858	P2859	D2860	L2862	S2863	G2864	V2865	T2866	L2867	S2868	R2869	L2871	Q2872	E2876	Q2877	E2880	M2881	Y2882	K2889	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	S2899	V2900	P2903	L2904	V2905	P2907	F2908	T2910	L2911	T2912	A2913	K2914	E2915	R2918	D2919	R2920	E2921	Q2924	L2927	K2928	F2929	L2930	Q2931	N2932	N2933	G2934	Y2935	A2936	V2937	R2938	R2939	H3647	R3648	A3649	C3650	N3651	Y3657	I3662	R3667	S3668	F3669	R3670	R3671	R3672	I3673	D3675	D3676	L3677	S3678	K3679	A3680	GLY	GLU	GLN	GLU	GLU	GLU	GLU	GLU	VAL	GLU	GLY	GLY	GLY	VAL	GLU	ASN	GLU	ASP	GLY	THR	VAL	ILE	ASN	ARG	GLN	ASN	M3793	V3794	S3795	S3796	T3797	L3798	K3799	I3802	L3805	M3806	N3809	Q3813	L3817	L3820	V3826	F3828	F3829	Q3830	S3831	L3835	L3903	R3904	T3905	S3877	D3878	E3879	F3880	T3881	Q3882	D3883	L3884	F3885	R3886	F3887	L3888	Q3889	L3890	L3891	C3892	E3893	N3897	D3898	F3899	Q3830	Q3900	Q3901	Y3902	L3903	R3904	T3905
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Molecule 1: Ryanodine receptor 1



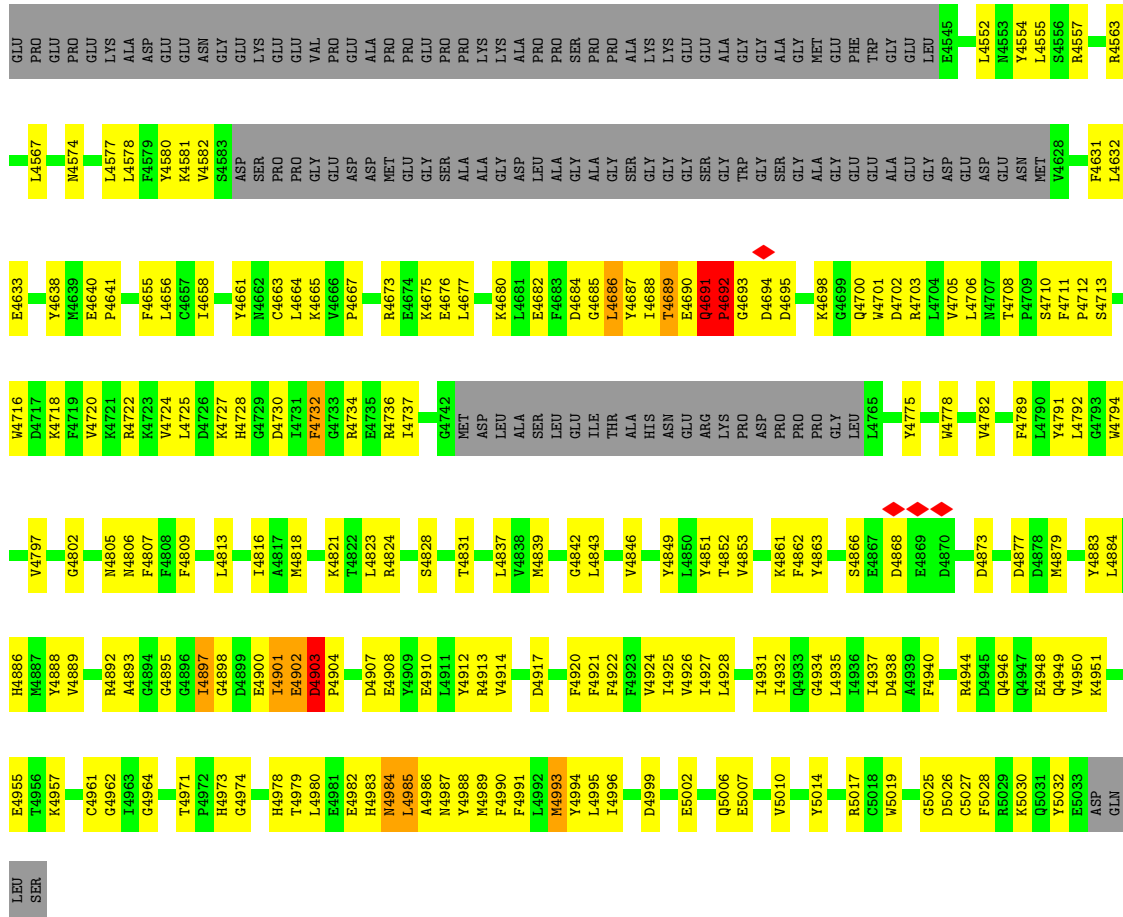
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G160	E161	K162	V163	R164	D167	V174	S176	E177	R178	Y179	L180	H181	L182	S183	T184	ALA	SER	GLY	GLU	GLY	GLU	GLY	VAL	L265	R266	S272	H273	L274	R275	W276	F195	M196	Q278	P279	L280	R283	H284	E210	E211	G212	Y213	W214	T215	G216	L220	R221	L222	F223	H224	G225	HIS	ASP	MET	E229	F314	C315	F316	R317	L233	S234	A235	K322	L323																																																						
D937	S238	R242	R243	L244	G249	V252	C253	H255	A256	R257	S258	R261	L265	R266	S272	H273	L274	R275	W276	F195	M196	Q278	P279	L280	R283	H284	E210	E211	G212	Y213	W214	T215	G216	L220	R221	L222	F223	H224	G225	HIS	ASP	MET	E229	F314	C315	F316	R317	L233	S234	A235	K322	L323																																																																	
ASP	THR	ALA	R328	R329	D330	M334	E338	Y341	L345	Q349	H350	Q350	T358	Y359	A361	PRO	ASP	PRO	LYS	ALA	ALA	LEU	ARG	LEU	LEU	GLY	V371	K375	A376	I377	L378	H379	Q380	E381	M384	L388	F389	L390	V301	L391	L392	L393	H308	T309	S313	A401	R402	M403	I404	Y411	F414																																																																		
I415	F421	P425	R426	GLY	SER	PRO	PRO	ALA	GLY	PRO	ALA	L436	I438	V441	L442	L445	Q446	D447	E453	P454	E454	E457	K464	Q465	L468	R472	M473	R474	Q475	S476	L477	F478	Q479	E480	E481	L484	S485	L486	V487	L488	A400	R401	M403	I404	Y411	F414																																																																							
T498	T499	ALA	ALA	PHE	ALA	GLU	Y506	S514	W515	K516	E517	IS18	V519	N520	L521	L522	Y523	L526	A527	S528	N529	I530	R531	G532	N533	D601	R534	A535	N536	C537	F540	S541	T542	N543	L544	D545	W546	V547	S549	K550	L551	D552	L553	L554	E555	A556	S557	S558	G559	I560	I561	E562	V563	L564	Y565																																																														
C566	V567	I568	I569	S570	P572	E573	V574	L575	Q579	E580	E581	H582	S588	D591	K592	H593	G594	R595	N596	H597	C598	G604	S605	L606	C607	V608	C609	M610	G611	V614	S616	M617	Q618	D619	L620	I621	T622	E623	M624	L625	L626	P627	G628	R629	E630	Q634																																																																							
T635	M636	L637	I638	M639	V641	I644	R645	P646	M647	I648	F649	V650	G651	ALA	GLU	GLY	SER	THR	GLN	TYR	G660	K661	W662	F663	F664	E665	D601	R534	V666	M667	V668	D669	E670	V671	F674	L675	T676	A677	Q678	A679	R680	H681	L682	R683	V684	T689	G691	Y692	G701	F702	G703	G704	N705	S782	G706																																																														
V707	G708	D709	D710	L711	Y714	G715	D716	D717	H720	L721	W722	H725	V726	R728	P729	S732	H736	L737	L738	A739	V663	F664	E665	D601	R534	V666	M667	D749	L750	S751	V752	P753	S754	R758	I759	N760	P763	V764	V767	F768	A770	F771	L776	F777	F778	V779	V780	W781	S782	F783																																																																			
S784	A785	G786	V787	K788	V789	R790	F791	L792	L793	G794	GLY	ARG	F799	F800	K801	F802	L803	P804	P805	P806	G807	Y808	C811	A814	V815	L816	P817	R818	L821	R822	L823	E824	P825	I826	K827	Y829	R830	R831	E832	G833	P834	R835	H838	L839	V840	G841	P842	R844	C845	L846	SER																																																																		
HIS	THR	ASP	F851	V852	T858	P864	P865	H866	L867	E876	E880	R886	Q889	G890	W891	V896	R897	D898	D899	H904	P905	V906	C907	L907	V908	N909	F910	H911	S912	E915	P916	E917	R918	G926	N1018	P1019	R1020	L1021	V1022	M941	A942	D943	A946	GLU	ASP	ASN	LEU	LYS	LYS																																																																				
THR	LYS	LEU	PRO	THR	LYS	Y959	N960	D971	L972	S973	H974	V975	P979	L984	L988	A989	E990	N991	G992	H993	R1000	V1001	A1002	Q1003	TRP	SER	TYR	ALA	VAL	GLN	ASP	PRO	ALA	R1016	R1017	N1018	P1019	R1020	L1021	V1022	P1023	Y1024	L1027	A1042	V1043	R1044	ASN	LEU	LYS	L1046	L1047																																																																		
G1050	Y1051	P1055	ASP	GLN	GLU	PRO	SER	SER	VAL	GLU	ASN	GLN	SER	ARG	TRP	ASP	F1075	R1076	A1077	E1078	L1079	S1080	Y1081	T1082	R1087	Y1088	Y1089	F1090	E1091	F1092	E1093	V1095	T1097	G1098	M1100	R1101	V1102	A1105	L1109	R1110	P1111	D1112	G1116	L1120	A1121																																																																								

L2200	L2201	G2202	M2203	E2204	H2205	T2206	V2207	M2208	E2209	V2210	M2211	V2212	R2213	V2214	L2215	G2216	GLY	GLU	GLU	THR	P2226	K2227	T2230	R2284	C2237	Y2238	F2239	C2240	R2241	I2242	Q2245	Q2246	Q2247	R2248	S2249	Y2256	L2257	E2258	E2259	N2260	I2263	GLY	LEU	GLY	MET	GLY	M2198	L2199								
R2126	Q2127	Y2128	D2129	E2133	L2134	L2135	R2136	E2137	L2138	P2139	R2140	A2141	V2142	T2143	S2144	S2145	P2146	V2149	E2150	D2151	T2152	L2155	L2156	L2159	T2162	R2163	S2164	L2166	L2167	V2168	GLN	MET	GLY	PRO	L2094	Q2095	E2096	L2097	M2178	T2182	I2185	N2188	K2189	V2190	F2191	Y2192	P2195	N2196	L2197	M2198	R2199					
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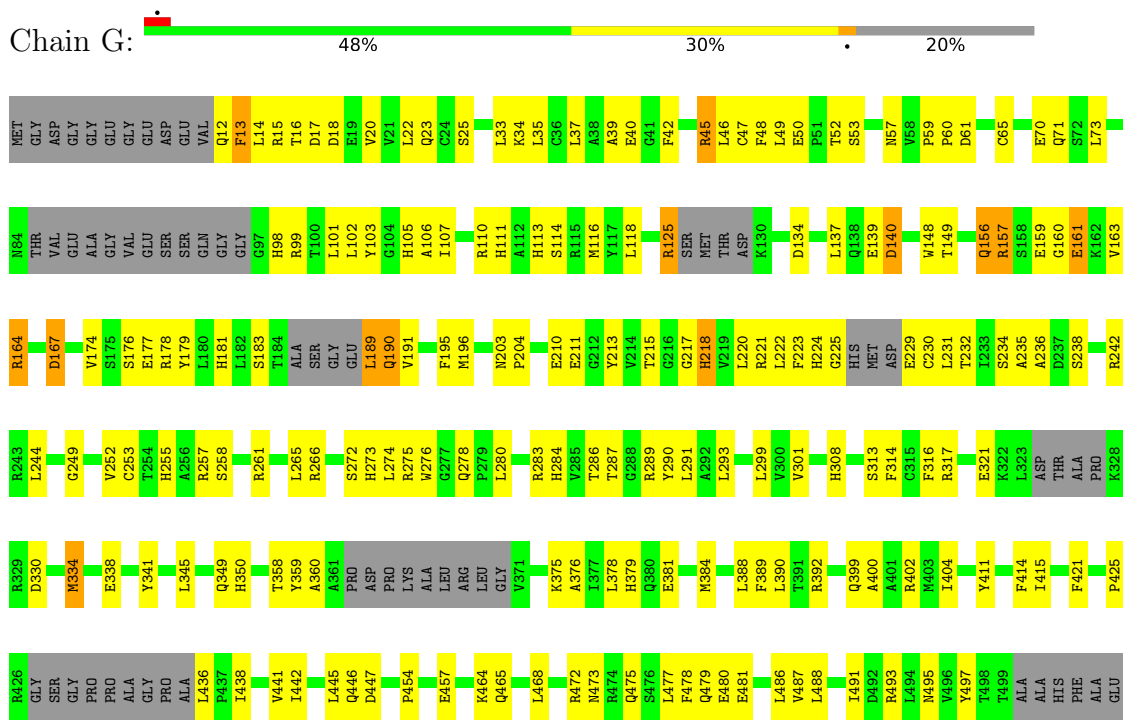
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S4051	L3985	Q3906	S3840	L2894	L2894	K2825	K2825	T2762	A2533	M2423	R2358	V2276
F4141	A3988	T3907	V3841	E2895	E2895	A2826	A2826	H2763	L2537	D2431	R2360	A2277
N4142	S3989	G3908	L3842	K2897	K2897	R2827	R2827	E2764	ASP	D2431	P2361	A2278
V4145	V3990	M3909	D3843	A2896	A2896	G2828	G2828	K2765	THR	G2434	S2279	S2279
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L4147	F3992	I3916	R3849	G2899	G2899	E2830	E2830	D2769	THR	R2436	N2283	L2281
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V4154	H3998	L3924	GLU	H2902	H2902	GLU	GLU	Q2772	THR	HIS	GLY	V2299
F4155	H3998	R3925	GLU	H2902	H2902	GLU	GLU	N2773	THR	HIS	GLY	V2299
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D4157	M4000	Q3927	GLY	L2904	L2904	LYS	LYS	N2775	THR	ILE	GLY	L2300
P4158	M4001	Q3928	VAL	L2905	L2905	LYS	LYS	N2775	THR	ALA	GLY	Y2301
R4159	K4002	S3929	ASN	V2906	V2906	THR	THR	S2776	THR	ALA	GLY	Y2301
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S4007	S4007	M3935	VAL	L2911	L2911	GLN	GLN	N2780	THR	R2452	L2380	L2380
S4008	S4008	Y3936	ILE	T2912	T2912	THR	THR	V2781	THR	I2453	L2380	L2380
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E4011	E4011	G3939	GLN	E2915	E2915	THR	THR	E2783	THR	I2456	R2385	R2385
A4012	A4012	K3940	ASN	Y2916	Y2916	THR	THR	E2784	THR	I2456	I2386	I2386
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D4083	D4083	V3942	GLY	E2919	E2919	THR	THR	K2786	THR	R2458	SER	SER
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S4187	S4187	V3961	D3877	F2929	F2929	THR	THR	P2793	THR	K2499	VAL	VAL
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F4093	F4093	R3966	F3879	M2933	M2933	THR	THR	F2797	THR	V2503	ARG	ARG
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P4106	P4106	E3967	F3887	G2934	G2934	THR	THR	E2799	THR	V2510	ARG	ARG
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I4108	I4108	I3969	L3890	A2936	A2936	THR	THR	K2800	THR	ILE	PHE	PHE
Q4109	Q4109	Q3970	L3891	T2938	T2938	THR	THR	D2801	THR	GLU	GLY	GLY
F4110	F4110	G3971	L3892	T2938	T2938	THR	THR	K2802	THR	GLU	GLU	GLU
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S4113	S4113	P3972	G3826	R3648	R3648	THR	THR	R2806	THR	F2517	PRO	PRO
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I4123	I4123	C3974	F3828	A3649	A3649	THR	THR	R2806	THR	F2517	PRO	PRO
F4131	F4131	T3974	F3829	G3650	G3650	THR	THR	R2806	THR	F2517	PRO	PRO
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D4220	D4220	G3975	F3829	F3669	F3669	THR	THR	R2806	THR	F2517	PRO	PRO
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L2376	L2377	L2380	A2383	L2384	R2385	L2386	SER	GLU	ASP	PRO	ALA	ASP	GLY	PRO	VAL	ARG	ARG	M2501	M2502	V2503	L2504	F2505	Y2510	GLY	ILE	GLU	R2514	F2517	V2521	L2522	ASP	V2525	P2529	A2533	L2537	ASP	THR	ALA	THR	PHE	SER	THR	T2544	A2547	L2550	M2551	R2552	Y2553									

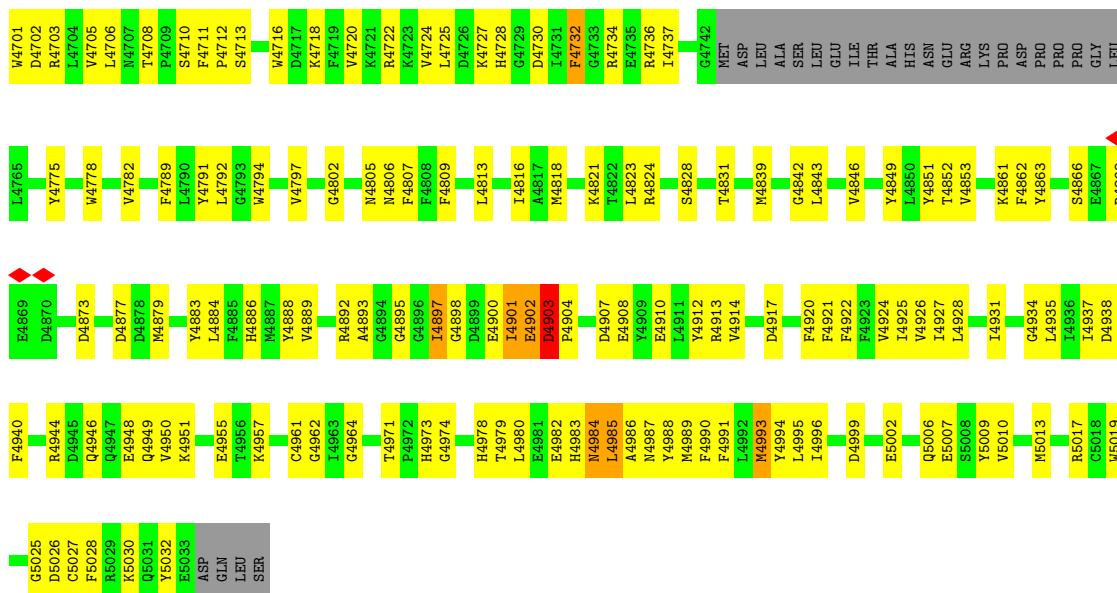
Table with 10 columns: Residue Number, Residue Name, Chain, B-factor, Occupancy, etc. The table lists residues from 12584 to 42780, categorized by chain and color-coded by validation status (green for good, yellow for warnings, grey for errors).



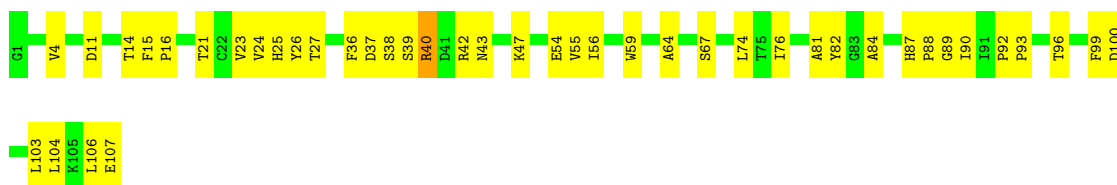
• Molecule 1: Ryanodine receptor 1



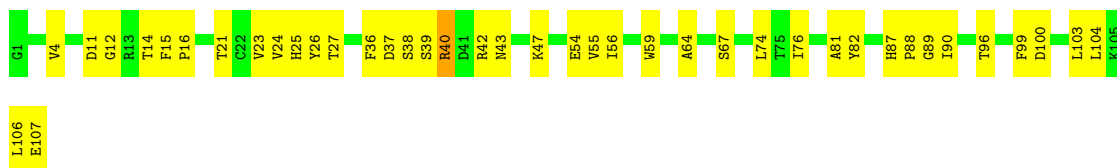
GLU	L2904	GLN	L3844	V3990	V4055	L4146	V4235	ALA	LEU	GLU	GLY	TRP	GLU
ALA	L2905	GLU	L3915	G3991	E4056	L4147	C4238	ARG	PHE	GLU	GLU	GLY	ALA
GLU	V2906	GLU	R3849	F3992	H4057	T4148	E4239	ALA	GLY	VAL	GLU	LEU	VAL
GLU	F2907	GLU	K3852	H3993	L4058	M4149	L4059	LEU	GLY	ALA	GLU	LEU	ALA
GLU	V2908	GLU	ALA	H3994	L4059	L4150	K4060	ARG	GLY	HIS	LEU	GLY	GLU
VAL	D2909	GLU	GLU	V3995	F4061	V4154	F4243	LEU	VAL	GLU	VAL	VAL	VAL
VAL	T2910	GLU	GLY	F3996	F4062	F4155	F4247	SER	GLY	ALA	GLU	ALA	ALA
GLU	L2911	GLU	LEU	H3997	D4063	H4156	L4251	TYR	GLY	GLY	PRO	PRO	PRO
GLY	T2912	GLU	LEU	H3998	D4063	H4156	14251	ALA	GLY	GLU	GLU	GLU	GLU
LYS	K2913	VAL	GLY	M3999	R4064	D4157	SER	ALA	VAL	PRO	PRO	PRO	PRO
LYS	K2914	VAL	VAL	M4000	PHE	P4158	ALA	SER	LYS	GLY	GLY	GLY	GLY
K3684	A2915	LYS	ASN	M4001	LEU	L4159	GLU	LEU	LYS	GLY	ALA	ALA	ALA
D3696	R2918	GLY	GLU	K4002	LEU	R4160	GLU	ARG	VAL	GLU	GLU	GLU	GLU
H3699	D2919	GLY	ASP	L4003	LEU	R4161	PRO	ARG	THR	GLY	PRO	PRO	PRO
Q3700	R2924	GLY	ASP	A4004	ASP	L4164	GLU	ARG	VAL	VAL	VAL	VAL	VAL
L3701	L2927	GLY	THR	Q4005	L4071	L4164	GLU	VAL	THR	VAL	PRO	PRO	PRO
V3702	R2928	GLY	THR	Q4006	L4072	A4167	GLU	ARG	GLU	VAL	PRO	PRO	PRO
F3705	F2929	GLY	VAL	S4007	V4072	E4168	GLU	ARG	LEU	ALA	ALA	ALA	ALA
T3708	L2930	GLY	ILE	S4008	G4073	E4168	ALA	LEU	LEU	VAL	VAL	VAL	VAL
A3709	Q2931	GLY	ASN	Q4009	S4074	E4172	ALA	ARG	ALA	ALA	ALA	ALA	ALA
E3712	Q2932	GLY	ARG	I4010	F4077	A4175	ASP	ARG	GLY	ASP	ASP	ASP	ASP
K3713	Q2933	GLY	GLM	E4011	P4083	R4176	GLY	THR	LEU	GLY	GLY	GLY	GLY
S3714	R2939	GLY	ASN	E4012	D4088	L4178	GLU	THR	LEU	GLU	GLU	GLU	GLU
K3715	L2930	GLY	GLN	L4012	L4088	R4180	GLU	ALA	ALA	GLY	GLY	GLY	GLY
L3716	Q2931	GLY	GLY	L4013	L4108	E4182	ALA	VAL	ALA	ALA	ALA	ALA	ALA
Y3722	Q2932	GLY	LYS	L4017	F4109	S4187	ALA	VAL	ALA	VAL	VAL	VAL	VAL
M3723	R2939	GLY	LYS	D4018	L4109	R4188	GLY	VAL	ALA	VAL	VAL	VAL	VAL
Y3725	Q2933	GLY	VAL	L4019	Q4102	R4189	GLU	VAL	ALA	VAL	VAL	VAL	VAL
A3726	Q2934	GLY	VAL	L4020	P4106	I4190	GLU	TRP	LEU	GLU	GLU	GLU	GLU
I3728	R2939	GLY	GLY	K4021	E4107	E4191	GLU	ALA	LEU	GLU	GLU	GLU	GLU
K3731	H3647	GLY	ASN	L4031	F4108	R4192	GLY	ALA	LEU	GLY	GLY	GLY	GLY
S3732	R3648	GLY	R3886	L4032	I4108	I4193	ALA	VAL	GLY	GLY	GLY	GLY	GLY
HIS	C3650	GLY	F3887	E4032	F4109	F4194	ALA	VAL	VAL	VAL	VAL	VAL	VAL
L3820	N3651	LEU	L3887	L4033	F4110	F4195	ALA	VAL	VAL	VAL	VAL	VAL	VAL
Y3826	Y3657	GLU	L3888	L4044	L4111	E4196	ALA	VAL	VAL	VAL	VAL	VAL	VAL
G3827	I3662	GLY	L3888	M4047	L4112	I4197	ALA	ALA	ALA	ALA	ALA	ALA	ALA
F3829	I3667	GLY	L3889	M4047	L4123	I4197	ALA	ALA	ALA	ALA	ALA	ALA	ALA
Q3830	S3668	GLY	L3890	A4041	L4219	I4218	VAL	ALA	ALA	ALA	ALA	ALA	ALA
S3831	S3669	ASN	L3891	R4042	D4220	D4221	ALA	ALA	ALA	ALA	ALA	ALA	ALA
L3835	F3670	GLY	C3892	M4044	V4221	V4222	ALA	ALA	ALA	ALA	ALA	ALA	ALA
Q3837	E3670	GLY	E3893	M4047	M4039	M4223	ALA	ALA	ALA	ALA	ALA	ALA	ALA
T3838	S3671	GLY	N3901	L4048	I4040	M4223	ALA	ALA	ALA	ALA	ALA	ALA	ALA
C3839	S3672	GLY	Y3902	E4049	A4041	E4224	ALA	ALA	ALA	ALA	ALA	ALA	ALA
S3840	M3673	GLY	L3903	F4050	R4042	G4225	ARG	ALA	ALA	ALA	ALA	ALA	ALA
V3841	Q3674	GLY	T3905	S4051	Q4043	G4227	LEU	LEU	LEU	LEU	LEU	LEU	LEU
L3842	I3675	GLY	Q3906	S4052	M4044	E4228	ALA	TRP	GLY	GLY	GLY	GLY	GLY
E3750	D3676	VAL	G3907	S4053	M4054	F4234	ALA	GLY	GLY	GLY	GLY	GLY	GLY
V3751	L3677	VAL	N3909	M4054	M4054	F4234	SER	ALA	ASP	ASP	ASP	ASP	ASP
S3679	K3678	GLY	G3908										
A3680	GLY	GLU	N3909										
GLU	GLY	GLU											



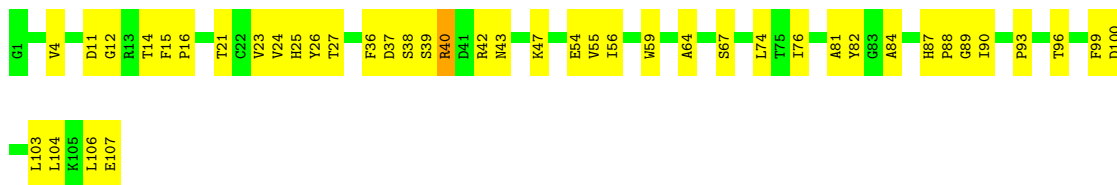
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



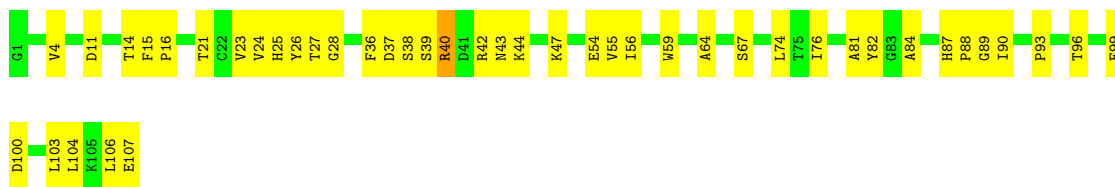
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



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



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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	65872	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Contrast transfer function parameters were estimated using CTFFIND3	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	1900	Depositor
Maximum defocus (nm)	5600	Depositor
Magnification	104748	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.336	Depositor
Minimum map value	-0.183	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.04	Depositor
Map size (Å)	482.40002, 482.40002, 482.40002	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.34, 1.34, 1.34	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
1	C	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
1	E	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
1	G	0.33	2/24616 (0.0%)	0.59	19/33295 (0.1%)
2	B	0.26	0/851	0.45	0/1146
2	D	0.26	0/851	0.45	0/1146
2	F	0.26	0/851	0.45	0/1146
2	H	0.26	0/851	0.45	0/1146
All	All	0.33	8/101868 (0.0%)	0.59	76/137764 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	C	0	3
1	E	0	3
1	G	0	3
All	All	0	12

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1544	PRO	N-CD	5.20	1.55	1.47
1	C	1544	PRO	N-CD	5.20	1.55	1.47
1	E	1544	PRO	N-CD	5.20	1.55	1.47
1	G	1544	PRO	N-CD	5.20	1.55	1.47
1	A	1763	PRO	N-CD	5.05	1.54	1.47
1	C	1763	PRO	N-CD	5.05	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	1763	PRO	N-CD	5.05	1.54	1.47
1	G	1763	PRO	N-CD	5.05	1.54	1.47

All (76) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1764	GLY	N-CA-C	14.38	149.05	113.10
1	C	1764	GLY	N-CA-C	14.38	149.05	113.10
1	E	1764	GLY	N-CA-C	14.38	149.05	113.10
1	G	1764	GLY	N-CA-C	14.38	149.05	113.10
1	A	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	C	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	E	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	G	1765	VAL	N-CA-CB	-9.67	90.23	111.50
1	A	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	C	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	E	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	G	805	PRO	CA-N-CD	-8.68	99.35	111.50
1	A	680	THR	N-CA-C	-7.89	89.69	111.00
1	C	680	THR	N-CA-C	-7.89	89.69	111.00
1	E	680	THR	N-CA-C	-7.89	89.69	111.00
1	G	680	THR	N-CA-C	-7.89	89.69	111.00
1	A	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	C	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	E	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	G	4993	MET	CA-CB-CG	6.57	124.46	113.30
1	A	3971	GLY	C-N-CD	6.26	141.55	128.40
1	C	3971	GLY	C-N-CD	6.26	141.55	128.40
1	E	3971	GLY	C-N-CD	6.26	141.55	128.40
1	G	3971	GLY	C-N-CD	6.26	141.55	128.40
1	A	4691	GLN	C-N-CD	6.20	141.42	128.40
1	C	4691	GLN	C-N-CD	6.20	141.42	128.40
1	E	4691	GLN	C-N-CD	6.20	141.42	128.40
1	G	4691	GLN	C-N-CD	6.20	141.42	128.40
1	A	804	PRO	C-N-CD	-6.13	107.12	120.60
1	C	804	PRO	C-N-CD	-6.13	107.12	120.60
1	E	804	PRO	C-N-CD	-6.13	107.12	120.60
1	G	804	PRO	C-N-CD	-6.13	107.12	120.60
1	A	4903	ASP	C-N-CD	6.04	141.09	128.40
1	C	4903	ASP	C-N-CD	6.04	141.09	128.40
1	E	4903	ASP	C-N-CD	6.04	141.09	128.40
1	G	4903	ASP	C-N-CD	6.04	141.09	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1765	VAL	N-CA-C	5.94	127.04	111.00
1	C	1765	VAL	N-CA-C	5.94	127.04	111.00
1	E	1765	VAL	N-CA-C	5.94	127.04	111.00
1	G	1765	VAL	N-CA-C	5.94	127.04	111.00
1	A	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	C	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	E	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	G	2226	PRO	N-CA-CB	5.89	110.37	103.30
1	A	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	C	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	E	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	G	2529	PRO	N-CA-CB	5.82	110.28	103.30
1	A	1762	LEU	C-N-CD	5.69	140.34	128.40
1	C	1762	LEU	C-N-CD	5.69	140.34	128.40
1	E	1762	LEU	C-N-CD	5.69	140.34	128.40
1	G	1762	LEU	C-N-CD	5.69	140.34	128.40
1	A	1543	GLU	C-N-CD	5.65	140.27	128.40
1	C	1543	GLU	C-N-CD	5.65	140.27	128.40
1	E	1543	GLU	C-N-CD	5.65	140.27	128.40
1	G	1543	GLU	C-N-CD	5.65	140.27	128.40
1	A	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	C	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	E	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	G	1510	ASP	CB-CG-OD2	5.21	122.99	118.30
1	A	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	C	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	E	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	G	140	ASP	CB-CG-OD2	5.20	122.98	118.30
1	A	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	C	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	E	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	G	1478	ASP	CB-CG-OD2	5.19	122.97	118.30
1	A	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	C	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	E	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	G	4692	PRO	CA-N-CD	-5.03	104.45	111.50
1	A	4147	LEU	CA-CB-CG	-5.01	103.77	115.30
1	C	4147	LEU	CA-CB-CG	-5.01	103.77	115.30
1	E	4147	LEU	CA-CB-CG	-5.01	103.77	115.30
1	G	4147	LEU	CA-CB-CG	-5.01	103.77	115.30

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1253	PRO	Peptide
1	A	1867	GLU	Peptide
1	A	646	PRO	Peptide
1	C	1253	PRO	Peptide
1	C	1867	GLU	Peptide
1	C	646	PRO	Peptide
1	E	1253	PRO	Peptide
1	E	1867	GLU	Peptide
1	E	646	PRO	Peptide
1	G	1253	PRO	Peptide
1	G	1867	GLU	Peptide
1	G	646	PRO	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	26957	0	23849	1705	0
1	C	26957	0	23849	1709	0
1	E	26957	0	23849	1698	0
1	G	26957	0	23849	1714	0
2	B	832	0	831	41	0
2	D	832	0	831	42	0
2	F	832	0	831	42	0
2	H	832	0	831	43	0
3	A	1	0	0	2	0
3	C	1	0	0	2	0
3	E	1	0	0	2	0
3	G	1	0	0	2	0
All	All	111160	0	98720	6845	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 33.

All (6845) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:554:LEU:HD11	1:E:593:HIS:CE1	1.12	1.64
1:G:554:LEU:HD11	1:G:593:HIS:CE1	1.12	1.63
1:A:554:LEU:HD11	1:A:593:HIS:CE1	1.12	1.62
1:C:554:LEU:HD11	1:C:593:HIS:CE1	1.12	1.61
1:G:1961:PHE:CZ	1:G:2063:LEU:HD23	1.36	1.60
1:E:1961:PHE:CZ	1:E:2063:LEU:HD23	1.36	1.59
1:C:1961:PHE:CZ	1:C:2063:LEU:HD23	1.36	1.57
1:C:3839:CYS:SG	1:C:3881:THR:HG22	1.43	1.56
1:A:1961:PHE:CZ	1:A:2063:LEU:HD23	1.36	1.56
1:A:3839:CYS:SG	1:A:3881:THR:HG22	1.43	1.55
1:E:3839:CYS:SG	1:E:3881:THR:HG22	1.43	1.54
1:G:3839:CYS:SG	1:G:3881:THR:HG22	1.43	1.53
1:A:4904:PRO:HB2	1:A:4910:GLU:CB	1.40	1.51
1:C:4904:PRO:HB2	1:C:4910:GLU:CB	1.40	1.51
1:E:1297:PHE:CE1	1:E:1520:VAL:HG22	1.48	1.48
1:E:4904:PRO:HB2	1:E:4910:GLU:CB	1.40	1.47
1:G:4904:PRO:HB2	1:G:4910:GLU:CB	1.40	1.47
1:A:1297:PHE:CE1	1:A:1520:VAL:HG22	1.48	1.46
1:C:1297:PHE:CE1	1:C:1520:VAL:HG22	1.48	1.45
1:G:1297:PHE:CE1	1:G:1520:VAL:HG22	1.48	1.44
1:A:2198:MET:HE3	1:A:2203:MET:SD	1.55	1.44
1:G:3839:CYS:SG	1:G:3881:THR:CG2	2.06	1.43
1:E:3839:CYS:SG	1:E:3881:THR:CG2	2.06	1.42
1:G:49:LEU:CD1	1:G:189:LEU:O	1.68	1.42
1:A:3839:CYS:SG	1:A:3881:THR:CG2	2.06	1.41
1:A:49:LEU:CD1	1:A:189:LEU:O	1.68	1.41
1:C:3839:CYS:SG	1:C:3881:THR:CG2	2.06	1.40
1:E:49:LEU:CD1	1:E:189:LEU:O	1.68	1.40
1:G:2198:MET:CE	1:G:2203:MET:SD	2.10	1.40
1:C:49:LEU:CD1	1:C:189:LEU:O	1.68	1.40
1:A:2198:MET:CE	1:A:2203:MET:SD	2.10	1.39
1:E:2198:MET:CE	1:E:2203:MET:SD	2.10	1.39
1:C:2198:MET:CE	1:C:2203:MET:SD	2.10	1.38
1:A:554:LEU:CD1	1:A:593:HIS:CE1	2.06	1.37
1:C:1122:TYR:CE1	1:C:1133:HIS:CE1	2.12	1.36
1:E:554:LEU:CD1	1:E:593:HIS:CE1	2.06	1.36
1:E:2198:MET:HE3	1:E:2203:MET:SD	1.65	1.36
1:A:1122:TYR:CE1	1:A:1133:HIS:CE1	2.12	1.36
1:G:1122:TYR:CE1	1:G:1133:HIS:CE1	2.12	1.36
1:E:1122:TYR:CE1	1:E:1133:HIS:CE1	2.12	1.35
1:G:554:LEU:CD1	1:G:593:HIS:CE1	2.06	1.35
1:C:554:LEU:CD1	1:C:593:HIS:CE1	2.06	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:26:TYR:N	2:H:39:SER:OG	1.62	1.33
1:C:1122:TYR:CE1	1:C:1133:HIS:ND1	1.97	1.33
1:G:1122:TYR:CE1	1:G:1133:HIS:ND1	1.97	1.33
2:D:26:TYR:N	2:D:39:SER:OG	1.62	1.32
1:G:4010:ILE:HD12	1:G:4011:GLU:N	1.43	1.32
2:B:26:TYR:N	2:B:39:SER:OG	1.62	1.32
1:G:4693:GLY:O	1:G:4695:ASP:N	1.63	1.32
1:A:1122:TYR:CE1	1:A:1133:HIS:ND1	1.97	1.31
1:E:1122:TYR:CE1	1:E:1133:HIS:ND1	1.97	1.31
1:C:4010:ILE:HD12	1:C:4011:GLU:N	1.43	1.31
1:C:4693:GLY:O	1:C:4695:ASP:N	1.63	1.30
1:E:4010:ILE:HD12	1:E:4011:GLU:N	1.43	1.30
1:A:4010:ILE:HD12	1:A:4011:GLU:N	1.43	1.29
1:A:4693:GLY:O	1:A:4695:ASP:N	1.63	1.29
2:F:26:TYR:N	2:F:39:SER:OG	1.62	1.29
1:E:4693:GLY:O	1:E:4695:ASP:N	1.63	1.28
1:C:2198:MET:HE3	1:C:2203:MET:SD	1.67	1.28
1:G:2198:MET:HE2	1:G:2203:MET:SD	1.68	1.25
1:A:4904:PRO:HB2	1:A:4910:GLU:CG	1.67	1.25
1:C:4904:PRO:HB2	1:C:4910:GLU:CG	1.67	1.25
1:C:1763:PRO:HD2	1:C:1863:LEU:CD1	1.67	1.25
1:G:4904:PRO:HB2	1:G:4910:GLU:CG	1.67	1.25
1:A:1763:PRO:HD2	1:A:1863:LEU:CD1	1.67	1.24
1:E:4904:PRO:HB2	1:E:4910:GLU:CG	1.67	1.24
1:G:49:LEU:HD11	1:G:189:LEU:C	1.58	1.24
1:A:49:LEU:HD11	1:A:189:LEU:C	1.58	1.23
1:E:1763:PRO:HD2	1:E:1863:LEU:CD1	1.67	1.23
1:G:1763:PRO:HD2	1:G:1863:LEU:CD1	1.67	1.23
1:C:49:LEU:HD11	1:C:189:LEU:C	1.58	1.23
1:A:125:ARG:HB2	1:A:134:ASP:CG	1.59	1.22
1:E:125:ARG:HB2	1:E:134:ASP:CG	1.59	1.22
1:C:157:ARG:NH1	1:C:164:ARG:HB2	1.55	1.22
1:E:49:LEU:HD11	1:E:189:LEU:C	1.58	1.22
1:E:1286:MET:HE2	1:E:1555:LEU:CD1	1.70	1.21
1:G:125:ARG:HB2	1:G:134:ASP:CG	1.59	1.20
1:E:157:ARG:NH1	1:E:164:ARG:HB2	1.55	1.20
1:A:157:ARG:NH1	1:A:164:ARG:HB2	1.55	1.20
1:G:157:ARG:NH1	1:G:164:ARG:HB2	1.55	1.20
1:C:125:ARG:HB2	1:C:134:ASP:CG	1.59	1.20
1:E:2198:MET:CE	1:E:2203:MET:CE	2.20	1.20
1:A:195:PHE:CE1	1:C:2358:ILE:HG23	1.78	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:682:LEU:CD2	1:E:787:VAL:HG11	1.73	1.19
1:A:2358:ILE:HG23	1:G:195:PHE:CE1	1.78	1.19
1:E:49:LEU:CD1	1:E:189:LEU:HB2	1.73	1.19
1:G:682:LEU:CD2	1:G:787:VAL:HG11	1.73	1.19
1:E:195:PHE:CE1	1:G:2358:ILE:HG23	1.78	1.19
1:E:595:ARG:HB3	1:E:1662:PHE:CD1	1.78	1.19
1:E:2198:MET:HE3	1:E:2203:MET:CE	1.72	1.19
1:C:49:LEU:CD1	1:C:189:LEU:HB2	1.73	1.18
1:C:2198:MET:CE	1:C:2203:MET:CE	2.20	1.18
1:C:2198:MET:HE3	1:C:2203:MET:CE	1.72	1.18
1:G:49:LEU:CD1	1:G:189:LEU:HB2	1.73	1.18
1:G:2198:MET:CE	1:G:2203:MET:CE	2.20	1.18
1:A:49:LEU:CD1	1:A:189:LEU:HB2	1.73	1.18
1:A:595:ARG:HB3	1:A:1662:PHE:CD1	1.78	1.18
1:A:2198:MET:CE	1:A:2203:MET:CE	2.20	1.18
1:C:595:ARG:HB3	1:C:1662:PHE:CD1	1.78	1.18
1:G:554:LEU:CD1	1:G:593:HIS:HE1	1.46	1.18
1:G:595:ARG:HB3	1:G:1662:PHE:CD1	1.78	1.18
1:G:2198:MET:HE3	1:G:2203:MET:CE	1.72	1.18
1:C:682:LEU:CD2	1:C:787:VAL:HG11	1.73	1.18
1:A:682:LEU:CD2	1:A:787:VAL:HG11	1.73	1.17
1:C:2198:MET:HE2	1:C:2203:MET:SD	1.79	1.17
1:E:1018:ASN:CB	1:E:1021:LEU:HD21	1.75	1.17
1:G:1131:ARG:HD3	1:G:1139:PHE:HB2	1.26	1.17
1:C:195:PHE:CE1	1:E:2358:ILE:HG23	1.78	1.17
1:A:167:ASP:OD1	1:C:384:MET:HE3	1.44	1.17
1:C:3670:GLU:HG2	1:C:3728:ILE:HG23	1.19	1.17
1:G:4692:PRO:HG2	1:G:4700:GLN:NE2	1.60	1.17
1:A:1018:ASN:CB	1:A:1021:LEU:HD21	1.75	1.16
1:A:1448:VAL:HG13	1:A:1554:VAL:HG22	1.16	1.16
1:C:1018:ASN:CB	1:C:1021:LEU:HD21	1.75	1.16
1:C:1961:PHE:CZ	1:C:2063:LEU:CD2	2.29	1.16
1:E:554:LEU:CD1	1:E:593:HIS:HE1	1.46	1.16
1:A:4181:ILE:HD13	1:A:4991:PHE:CG	1.81	1.16
1:G:13:PHE:HE2	1:G:164:ARG:NH1	1.44	1.16
1:C:554:LEU:CD1	1:C:593:HIS:HE1	1.46	1.16
1:C:4692:PRO:HG2	1:C:4700:GLN:NE2	1.60	1.16
1:G:1018:ASN:CB	1:G:1021:LEU:HD21	1.75	1.16
1:A:4692:PRO:HG2	1:A:4700:GLN:NE2	1.60	1.15
1:C:4181:ILE:HD13	1:C:4991:PHE:CG	1.81	1.15
1:G:4181:ILE:HD13	1:G:4991:PHE:CG	1.81	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:157:ARG:HH12	1:C:164:ARG:CB	1.60	1.15
1:C:1131:ARG:HD3	1:C:1139:PHE:HB2	1.26	1.15
1:G:1961:PHE:CZ	1:G:2063:LEU:CD2	2.29	1.15
1:E:157:ARG:HH12	1:E:164:ARG:CB	1.60	1.15
1:A:554:LEU:CD1	1:A:593:HIS:HE1	1.46	1.15
1:A:13:PHE:HE2	1:A:164:ARG:NH1	1.44	1.15
1:E:1961:PHE:CZ	1:E:2063:LEU:CD2	2.29	1.15
1:C:49:LEU:HD12	1:C:189:LEU:O	1.40	1.14
1:E:1018:ASN:HB3	1:E:1021:LEU:CD2	1.77	1.14
1:E:1131:ARG:HD3	1:E:1139:PHE:HB2	1.26	1.14
1:E:4181:ILE:HD13	1:E:4991:PHE:CG	1.81	1.14
1:G:2198:MET:HE3	1:G:2203:MET:SD	1.78	1.14
1:G:4692:PRO:HG2	1:G:4700:GLN:HE22	0.99	1.14
1:A:157:ARG:HH12	1:A:164:ARG:CB	1.60	1.14
1:A:2198:MET:HE3	1:A:2203:MET:CE	1.74	1.14
1:C:4692:PRO:HG2	1:C:4700:GLN:HE22	0.99	1.14
1:E:4692:PRO:HG2	1:E:4700:GLN:NE2	1.60	1.14
1:A:384:MET:HE3	1:G:167:ASP:OD1	1.45	1.14
1:G:1763:PRO:CD	1:G:1863:LEU:HD11	1.78	1.14
1:E:3670:GLU:HG2	1:E:3728:ILE:HG23	1.19	1.14
1:E:4904:PRO:HB2	1:E:4910:GLU:HB2	1.14	1.14
1:A:1961:PHE:CZ	1:A:2063:LEU:CD2	2.29	1.13
1:E:13:PHE:HE2	1:E:164:ARG:NH1	1.44	1.13
1:C:13:PHE:HE2	1:C:164:ARG:NH1	1.44	1.13
1:G:157:ARG:HH12	1:G:164:ARG:CB	1.60	1.13
1:G:1297:PHE:CE1	1:G:1520:VAL:CG2	2.32	1.13
1:A:1018:ASN:HB3	1:A:1021:LEU:CD2	1.77	1.13
1:A:1763:PRO:CD	1:A:1863:LEU:HD11	1.78	1.13
1:C:1297:PHE:CE1	1:C:1520:VAL:CG2	2.32	1.13
1:E:4692:PRO:HD3	1:E:4703:ARG:HH21	1.00	1.13
1:A:598:LYS:H	1:A:598:LYS:HD2	1.13	1.12
1:E:167:ASP:OD1	1:G:384:MET:CE	1.97	1.13
1:C:167:ASP:OD1	1:E:384:MET:CE	1.97	1.12
1:E:1448:VAL:HG13	1:E:1554:VAL:HG22	1.16	1.12
1:G:1018:ASN:HB3	1:G:1021:LEU:CD2	1.77	1.12
1:G:125:ARG:HB2	1:G:134:ASP:OD1	1.47	1.12
1:C:1018:ASN:HB3	1:C:1021:LEU:CD2	1.77	1.12
1:E:125:ARG:HB2	1:E:134:ASP:OD1	1.47	1.12
1:E:1763:PRO:CD	1:E:1863:LEU:HD11	1.78	1.12
1:A:4904:PRO:HB2	1:A:4910:GLU:HB2	1.14	1.12
1:E:49:LEU:HD12	1:E:189:LEU:O	1.40	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1297:PHE:CE1	1:E:1520:VAL:CG2	2.32	1.12
1:G:1286:MET:HE2	1:G:1555:LEU:HD13	1.12	1.12
1:A:70:GLU:O	1:A:71:GLN:HG2	1.50	1.12
1:A:384:MET:CE	1:G:167:ASP:OD1	1.97	1.12
1:C:1448:VAL:HG13	1:C:1554:VAL:HG22	1.16	1.12
1:C:1763:PRO:CD	1:C:1863:LEU:HD11	1.78	1.12
1:G:70:GLU:O	1:G:71:GLN:HG2	1.50	1.12
1:A:125:ARG:HB2	1:A:134:ASP:OD1	1.47	1.11
1:A:1297:PHE:CE1	1:A:1520:VAL:CG2	2.32	1.11
1:C:70:GLU:O	1:C:71:GLN:HG2	1.50	1.11
1:E:1286:MET:CE	1:E:1555:LEU:HD13	1.79	1.11
1:G:3992:PHE:HD1	1:G:3996:PHE:CE2	1.68	1.11
1:G:4904:PRO:HB2	1:G:4910:GLU:HB2	1.14	1.11
1:A:167:ASP:OD1	1:C:384:MET:CE	1.97	1.11
1:A:3992:PHE:HD1	1:A:3996:PHE:CE2	1.68	1.11
1:C:125:ARG:HB2	1:C:134:ASP:OD1	1.47	1.11
1:E:70:GLU:O	1:E:71:GLN:HG2	1.50	1.11
1:A:4692:PRO:HG2	1:A:4700:GLN:HE22	0.99	1.11
1:C:1286:MET:HE2	1:C:1555:LEU:HD11	1.26	1.11
1:A:1286:MET:CE	1:A:1555:LEU:HD13	1.79	1.11
1:A:3670:GLU:HG2	1:A:3728:ILE:HG23	1.19	1.11
1:G:4195:PHE:HE1	1:G:4197:ILE:CG1	1.64	1.11
1:A:682:LEU:HD12	1:A:783:PHE:HA	1.13	1.10
1:C:4692:PRO:HD3	1:C:4703:ARG:HH21	1.00	1.10
1:E:2198:MET:HE2	1:E:2203:MET:SD	1.82	1.10
1:A:1131:ARG:HD3	1:A:1139:PHE:HB2	1.26	1.10
1:A:1286:MET:CE	1:A:1555:LEU:CD1	2.29	1.10
1:A:1965:TYR:HE1	1:A:1969:LEU:HD22	1.16	1.10
1:G:682:LEU:HD21	1:G:787:VAL:CG1	1.81	1.10
1:C:3992:PHE:HD1	1:C:3996:PHE:CE2	1.68	1.10
1:E:4195:PHE:HE1	1:E:4197:ILE:CG1	1.64	1.10
1:E:4692:PRO:HG2	1:E:4700:GLN:HE22	0.99	1.10
1:G:681:HIS:HA	1:G:716:PHE:CD1	1.87	1.10
1:A:2198:MET:HE2	1:A:2203:MET:SD	1.92	1.10
1:A:4195:PHE:HE1	1:A:4197:ILE:CG1	1.64	1.10
1:C:681:HIS:HA	1:C:716:PHE:CD1	1.87	1.10
1:C:682:LEU:HD12	1:C:783:PHE:HA	1.13	1.10
1:C:1286:MET:CE	1:C:1555:LEU:HD13	1.79	1.10
1:G:1286:MET:CE	1:G:1555:LEU:HD13	1.79	1.10
1:G:1448:VAL:CG1	1:G:1554:VAL:HG22	1.82	1.10
1:C:598:LYS:H	1:C:598:LYS:HD2	1.13	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1286:MET:CE	1:C:1555:LEU:CD1	2.29	1.10
1:C:1286:MET:HE1	1:C:1555:LEU:HD13	1.19	1.10
1:E:3992:PHE:HD1	1:E:3996:PHE:CE2	1.68	1.10
1:G:3670:GLU:HG2	1:G:3728:ILE:HG23	1.19	1.10
1:C:1965:TYR:HE1	1:C:1969:LEU:HD22	1.16	1.09
1:G:1448:VAL:HG13	1:G:1554:VAL:HG22	1.16	1.09
1:G:1965:TYR:HE1	1:G:1969:LEU:HD22	1.16	1.09
1:C:4195:PHE:HE1	1:C:4197:ILE:CG1	1.64	1.09
1:E:1448:VAL:CG1	1:E:1554:VAL:HG22	1.82	1.09
1:G:1286:MET:CE	1:G:1555:LEU:CD1	2.29	1.09
1:E:125:ARG:HB2	1:E:134:ASP:OD2	1.51	1.09
1:E:682:LEU:HD21	1:E:787:VAL:CG1	1.81	1.09
1:G:49:LEU:HD12	1:G:189:LEU:O	1.40	1.09
1:E:681:HIS:HA	1:E:716:PHE:CD1	1.87	1.09
1:A:681:HIS:HA	1:A:716:PHE:CD1	1.87	1.09
1:C:515:TRP:CH2	1:C:555:GLU:HG3	1.88	1.09
1:C:4686:LEU:HG	1:C:4687:TYR:CD1	1.88	1.09
1:E:1286:MET:CE	1:E:1555:LEU:CD1	2.29	1.09
1:G:598:LYS:H	1:G:598:LYS:HD2	1.13	1.09
1:A:49:LEU:HD12	1:A:189:LEU:O	1.40	1.08
1:A:682:LEU:HD21	1:A:787:VAL:CG1	1.81	1.08
1:A:1448:VAL:CG1	1:A:1554:VAL:HG22	1.82	1.08
1:C:716:PHE:CE2	1:C:717:ASP:HB3	1.89	1.08
1:G:515:TRP:CH2	1:G:555:GLU:HG3	1.88	1.08
1:G:4904:PRO:CB	1:G:4910:GLU:CB	2.31	1.08
1:A:4692:PRO:HD3	1:A:4703:ARG:HH21	1.00	1.08
1:C:682:LEU:HD21	1:C:787:VAL:CG1	1.81	1.08
1:C:1448:VAL:CG1	1:C:1554:VAL:HG22	1.82	1.08
1:E:1965:TYR:HE1	1:E:1969:LEU:HD22	1.16	1.08
1:A:125:ARG:HB2	1:A:134:ASP:OD2	1.51	1.08
1:A:4904:PRO:CB	1:A:4910:GLU:CB	2.31	1.08
1:G:4692:PRO:HD3	1:G:4703:ARG:HH21	1.00	1.08
1:C:4686:LEU:HD11	1:C:4687:TYR:HE1	1.16	1.08
1:C:4904:PRO:HB2	1:C:4910:GLU:HB2	1.14	1.08
1:G:4686:LEU:HG	1:G:4687:TYR:CD1	1.88	1.08
1:C:1122:TYR:CD1	1:C:1133:HIS:ND1	2.18	1.07
1:E:4904:PRO:CB	1:E:4910:GLU:CB	2.31	1.07
1:A:1286:MET:HE2	1:A:1555:LEU:HD13	1.12	1.07
1:A:4195:PHE:CE1	1:A:4197:ILE:HG13	1.89	1.07
1:A:4686:LEU:HG	1:A:4687:TYR:CD1	1.88	1.07
1:A:4686:LEU:HD11	1:A:4687:TYR:HE1	1.16	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4904:PRO:CB	1:C:4910:GLU:CB	2.31	1.07
1:E:515:TRP:CH2	1:E:555:GLU:HG3	1.88	1.07
1:E:716:PHE:CE2	1:E:717:ASP:HB3	1.89	1.07
1:A:716:PHE:CE2	1:A:717:ASP:HB3	1.89	1.07
1:C:125:ARG:HB2	1:C:134:ASP:OD2	1.51	1.07
1:C:4195:PHE:CE1	1:C:4197:ILE:HG13	1.89	1.07
1:E:4686:LEU:HG	1:E:4687:TYR:CD1	1.88	1.07
1:G:125:ARG:HB2	1:G:134:ASP:OD2	1.51	1.07
1:G:716:PHE:CE2	1:G:717:ASP:HB3	1.89	1.07
1:G:1122:TYR:CD1	1:G:1133:HIS:ND1	2.18	1.07
1:G:682:LEU:HD12	1:G:783:PHE:HA	1.13	1.07
1:A:515:TRP:CH2	1:A:555:GLU:HG3	1.88	1.07
1:E:4195:PHE:CE1	1:E:4197:ILE:HG13	1.89	1.07
1:E:4686:LEU:HD11	1:E:4687:TYR:HE1	1.16	1.06
1:A:716:PHE:CD2	1:A:717:ASP:N	2.23	1.06
1:E:716:PHE:CE2	1:E:717:ASP:CB	2.38	1.06
1:G:1286:MET:HE2	1:G:1555:LEU:CD1	1.84	1.06
1:G:4195:PHE:CE1	1:G:4197:ILE:HG13	1.89	1.06
1:A:1286:MET:HE3	1:A:1555:LEU:HD11	1.35	1.06
1:A:4686:LEU:O	1:A:4691:GLN:N	1.89	1.06
1:E:598:LYS:H	1:E:598:LYS:HD2	1.13	1.06
1:E:716:PHE:CD2	1:E:717:ASP:N	2.23	1.06
1:A:273:HIS:CE1	1:A:334:MET:HE1	1.91	1.06
1:C:716:PHE:CE2	1:C:717:ASP:CB	2.38	1.06
1:C:716:PHE:CD2	1:C:717:ASP:N	2.23	1.06
1:E:681:HIS:HA	1:E:716:PHE:HD1	1.20	1.06
1:E:4692:PRO:HD3	1:E:4703:ARG:NH2	1.71	1.06
1:G:716:PHE:CE2	1:G:717:ASP:CB	2.38	1.06
1:G:4686:LEU:HD11	1:G:4687:TYR:HE1	1.16	1.06
1:C:4692:PRO:HD3	1:C:4703:ARG:NH2	1.71	1.06
1:E:682:LEU:HD12	1:E:783:PHE:HA	1.13	1.06
1:E:3992:PHE:CD1	1:E:3996:PHE:HE2	1.74	1.05
1:E:4686:LEU:O	1:E:4691:GLN:N	1.89	1.05
1:G:716:PHE:CD2	1:G:717:ASP:N	2.23	1.05
1:G:4692:PRO:HD3	1:G:4703:ARG:NH2	1.71	1.05
1:C:4686:LEU:O	1:C:4691:GLN:N	1.89	1.05
1:G:3992:PHE:CD1	1:G:3996:PHE:HE2	1.74	1.05
1:C:1286:MET:HE2	1:C:1555:LEU:CD1	1.85	1.05
1:A:716:PHE:CE2	1:A:717:ASP:CB	2.38	1.05
1:C:1853:ILE:HG22	1:C:1854:PHE:CD1	1.92	1.05
1:C:3992:PHE:CD1	1:C:3996:PHE:HE2	1.74	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1853:ILE:HG22	1:G:1854:PHE:CD1	1.92	1.05
1:A:49:LEU:HD11	1:A:189:LEU:O	1.46	1.05
1:A:1122:TYR:CD1	1:A:1133:HIS:ND1	2.18	1.05
1:G:1286:MET:HE3	1:G:1555:LEU:HD11	1.36	1.05
1:A:1286:MET:HE2	1:A:1555:LEU:CD1	1.86	1.04
1:A:1853:ILE:HG22	1:A:1854:PHE:CD1	1.92	1.04
1:A:3992:PHE:CD1	1:A:3996:PHE:HE2	1.74	1.04
1:G:4686:LEU:O	1:G:4691:GLN:N	1.89	1.04
1:A:736:HIS:CE1	1:A:739:ALA:HB2	1.92	1.04
1:C:736:HIS:CE1	1:C:739:ALA:HB2	1.92	1.04
1:C:4686:LEU:HD11	1:C:4687:TYR:CE1	1.93	1.04
1:G:736:HIS:CE1	1:G:739:ALA:HB2	1.92	1.04
1:C:2129:ASP:HB2	1:C:3669:PHE:HE2	1.21	1.04
1:E:273:HIS:CE1	1:E:334:MET:HE1	1.92	1.04
1:E:1286:MET:HE2	1:E:1555:LEU:HD13	1.06	1.04
1:E:1853:ILE:HG22	1:E:1854:PHE:CD1	1.92	1.04
1:E:2129:ASP:HB2	1:E:3669:PHE:HE2	1.21	1.04
1:E:4686:LEU:HD11	1:E:4687:TYR:CE1	1.93	1.04
1:A:554:LEU:HD11	1:A:593:HIS:NE2	1.72	1.04
1:C:554:LEU:HD11	1:C:593:HIS:NE2	1.72	1.04
1:G:554:LEU:HD11	1:G:593:HIS:NE2	1.72	1.04
1:G:2129:ASP:HB2	1:G:3669:PHE:HE2	1.21	1.04
1:G:4686:LEU:HD11	1:G:4687:TYR:CE1	1.93	1.04
1:A:4195:PHE:HE1	1:A:4197:ILE:HG13	1.18	1.03
1:A:4686:LEU:HA	1:A:4690:GLU:HB2	1.04	1.03
1:C:592:LYS:HE2	1:C:1596:GLU:CD	1.79	1.03
1:C:1961:PHE:CE2	1:C:2063:LEU:HD23	1.93	1.03
1:C:4686:LEU:HA	1:C:4690:GLU:HB2	1.04	1.03
1:E:554:LEU:HD11	1:E:593:HIS:NE2	1.72	1.03
1:E:1961:PHE:CE2	1:E:2063:LEU:HD23	1.93	1.03
1:G:588:SER:O	1:G:592:LYS:HG3	1.58	1.03
1:A:592:LYS:HE2	1:A:1596:GLU:CD	1.79	1.03
1:A:1961:PHE:CE2	1:A:2063:LEU:HD23	1.93	1.03
1:A:4692:PRO:HD3	1:A:4703:ARG:NH2	1.71	1.03
1:C:273:HIS:CE1	1:C:334:MET:HE1	1.93	1.03
1:C:588:SER:O	1:C:592:LYS:HG3	1.58	1.03
1:E:592:LYS:HE2	1:E:1596:GLU:CD	1.79	1.03
1:A:2129:ASP:HB2	1:A:3669:PHE:HE2	1.21	1.03
1:E:736:HIS:CE1	1:E:739:ALA:HB2	1.92	1.03
1:G:592:LYS:HE2	1:G:1596:GLU:CD	1.79	1.03
1:A:515:TRP:CZ3	1:A:555:GLU:HG3	1.94	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:721:LEU:CD2	1:C:767:VAL:CG1	2.37	1.03
1:G:515:TRP:CZ3	1:G:555:GLU:HG3	1.94	1.03
1:E:588:SER:O	1:E:592:LYS:HG3	1.58	1.03
1:E:646:PRO:HB2	1:E:793:LEU:HD11	1.41	1.03
1:E:721:LEU:CD2	1:E:767:VAL:CG1	2.37	1.03
1:G:721:LEU:CD2	1:G:767:VAL:CG1	2.37	1.03
1:G:2198:MET:HE3	1:G:2203:MET:HE3	1.40	1.03
1:A:4686:LEU:HD11	1:A:4687:TYR:CE1	1.93	1.02
1:C:13:PHE:CE2	1:C:164:ARG:NH1	2.27	1.02
1:A:588:SER:O	1:A:592:LYS:HG3	1.58	1.02
1:A:681:HIS:HA	1:A:716:PHE:HD1	1.20	1.02
1:C:515:TRP:CZ3	1:C:555:GLU:HG3	1.94	1.02
1:E:13:PHE:CE2	1:E:164:ARG:NH1	2.27	1.02
1:E:2129:ASP:HB2	1:E:3669:PHE:CE2	1.94	1.02
1:E:4181:ILE:CD1	1:E:4991:PHE:CD2	2.43	1.02
1:G:13:PHE:CE2	1:G:164:ARG:NH1	2.27	1.02
1:G:2129:ASP:HB2	1:G:3669:PHE:CE2	1.94	1.02
1:A:721:LEU:CD2	1:A:767:VAL:CG1	2.37	1.02
1:C:4181:ILE:CD1	1:C:4991:PHE:CD2	2.43	1.02
1:A:682:LEU:CD1	1:A:783:PHE:HA	1.90	1.02
1:C:2129:ASP:HB2	1:C:3669:PHE:CE2	1.94	1.02
1:G:646:PRO:HB2	1:G:793:LEU:HD11	1.41	1.02
1:C:595:ARG:HB3	1:C:1662:PHE:CE1	1.95	1.02
1:G:157:ARG:HH12	1:G:164:ARG:HB2	0.86	1.02
1:G:4181:ILE:CD1	1:G:4991:PHE:CD2	2.43	1.02
1:E:515:TRP:CZ3	1:E:555:GLU:HG3	1.94	1.01
1:E:4686:LEU:HA	1:E:4690:GLU:HB2	1.04	1.01
1:C:49:LEU:HD13	1:C:189:LEU:HB2	1.40	1.01
1:C:3992:PHE:CD1	1:C:3996:PHE:CE2	2.49	1.01
1:G:1961:PHE:CE2	1:G:2063:LEU:HD23	1.93	1.01
1:E:49:LEU:HD13	1:E:189:LEU:HB2	1.40	1.01
1:E:218:HIS:ND1	1:E:341:TYR:OH	1.94	1.01
1:G:4195:PHE:HE1	1:G:4197:ILE:HG13	1.18	1.01
1:C:682:LEU:CD1	1:C:783:PHE:HA	1.90	1.01
1:E:157:ARG:HH12	1:E:164:ARG:HB2	0.86	1.01
1:A:13:PHE:CE2	1:A:164:ARG:NH1	2.27	1.01
1:A:4181:ILE:CD1	1:A:4991:PHE:CD2	2.43	1.01
1:E:3992:PHE:CD1	1:E:3996:PHE:CE2	2.49	1.01
1:G:49:LEU:HD11	1:G:189:LEU:O	1.46	1.01
1:G:4686:LEU:HA	1:G:4690:GLU:HB2	1.04	1.01
1:A:218:HIS:ND1	1:A:341:TYR:OH	1.94	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:ARG:HB3	1:A:1662:PHE:CE1	1.95	1.00
1:A:2129:ASP:HB2	1:A:3669:PHE:CE2	1.94	1.00
1:C:49:LEU:HD11	1:C:189:LEU:O	1.46	1.00
1:E:595:ARG:HB3	1:E:1662:PHE:CE1	1.95	1.00
1:G:595:ARG:HB3	1:G:1662:PHE:CE1	1.95	1.00
1:G:682:LEU:CD1	1:G:783:PHE:HA	1.90	1.00
1:G:218:HIS:ND1	1:G:341:TYR:OH	1.94	1.00
1:A:157:ARG:HH12	1:A:164:ARG:HB2	0.86	1.00
1:A:2358:ILE:CG2	1:G:195:PHE:CE1	2.45	1.00
1:C:646:PRO:HB2	1:C:793:LEU:HD11	1.41	1.00
1:A:3970:GLN:HA	1:A:3970:GLN:HE21	1.25	1.00
1:C:4195:PHE:HE1	1:C:4197:ILE:HG13	1.18	1.00
1:E:195:PHE:CE1	1:G:2358:ILE:CG2	2.45	0.99
1:E:682:LEU:CD1	1:E:783:PHE:HA	1.90	0.99
1:A:49:LEU:HD13	1:A:189:LEU:HB2	1.40	0.99
1:E:4195:PHE:HE1	1:E:4197:ILE:HG13	1.18	0.99
1:G:1857:GLU:OE2	1:G:1857:GLU:N	1.95	0.99
1:C:157:ARG:HH12	1:C:164:ARG:HB2	0.86	0.99
1:C:3970:GLN:HE21	1:C:3970:GLN:HA	1.25	0.99
1:A:195:PHE:CE1	1:C:2358:ILE:CG2	2.45	0.99
1:E:167:ASP:OD1	1:G:384:MET:HE3	1.61	0.99
1:C:218:HIS:ND1	1:C:341:TYR:OH	1.94	0.99
1:E:851:PHE:O	1:E:852:VAL:O	1.80	0.99
1:C:1857:GLU:OE2	1:C:1857:GLU:N	1.95	0.99
1:E:3970:GLN:HE21	1:E:3970:GLN:HA	1.25	0.99
1:A:646:PRO:HB2	1:A:793:LEU:HD11	1.41	0.99
1:E:1857:GLU:OE2	1:E:1857:GLU:N	1.95	0.99
1:G:3970:GLN:HA	1:G:3970:GLN:HE21	1.25	0.99
1:A:851:PHE:O	1:A:852:VAL:O	1.80	0.98
1:A:3992:PHE:CD1	1:A:3996:PHE:CE2	2.49	0.98
1:E:1453:VAL:HA	1:E:1493:UNK:CB	1.93	0.98
1:A:600:LEU:HD21	1:A:1666:THR:HA	1.44	0.98
1:A:1857:GLU:OE2	1:A:1857:GLU:N	1.95	0.98
1:A:4904:PRO:CG	1:A:4910:GLU:HG2	1.93	0.98
1:C:1452:TRP:CG	1:C:1527:MET:HE1	1.99	0.98
1:C:1453:VAL:HA	1:C:1493:UNK:CB	1.93	0.98
1:C:4904:PRO:CG	1:C:4910:GLU:HG2	1.93	0.98
1:E:721:LEU:HD22	1:E:767:VAL:CG1	1.94	0.98
1:G:49:LEU:HD13	1:G:189:LEU:HB2	1.40	0.98
1:C:195:PHE:CE1	1:E:2358:ILE:CG2	2.45	0.98
1:E:4904:PRO:CB	1:E:4910:GLU:CG	2.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:273:HIS:CE1	1:G:334:MET:HE1	1.97	0.98
1:G:1453:VAL:HA	1:G:1493:UNK:CB	1.93	0.98
1:G:3992:PHE:CD1	1:G:3996:PHE:CE2	2.49	0.98
1:C:851:PHE:O	1:C:852:VAL:O	1.80	0.98
1:G:721:LEU:HD22	1:G:767:VAL:CG1	1.94	0.98
1:G:4904:PRO:CB	1:G:4910:GLU:CG	2.42	0.98
1:A:682:LEU:HD21	1:A:787:VAL:HG11	0.98	0.97
1:G:851:PHE:O	1:G:852:VAL:O	1.80	0.97
1:E:1122:TYR:HE1	1:E:1133:HIS:CE1	1.69	0.97
1:A:1452:TRP:CG	1:A:1527:MET:HE1	1.98	0.97
1:C:167:ASP:OD1	1:E:384:MET:HE3	1.58	0.97
1:C:721:LEU:HD22	1:C:767:VAL:CG1	1.94	0.97
1:G:682:LEU:HD21	1:G:787:VAL:HG11	0.98	0.97
1:A:1018:ASN:HB3	1:A:1021:LEU:HD21	0.97	0.97
1:A:4904:PRO:CB	1:A:4910:GLU:CG	2.42	0.97
1:C:1018:ASN:HB3	1:C:1021:LEU:HD21	0.97	0.97
1:C:3669:PHE:CD1	1:C:3670:GLU:N	2.33	0.97
1:A:721:LEU:HD22	1:A:767:VAL:CG1	1.94	0.97
1:A:1453:VAL:HA	1:A:1493:UNK:CB	1.93	0.97
1:C:600:LEU:HD21	1:C:1666:THR:HA	1.44	0.97
1:G:600:LEU:HD21	1:G:1666:THR:HA	1.44	0.97
1:C:1961:PHE:CE2	1:C:2063:LEU:CD2	2.48	0.96
1:C:4904:PRO:CB	1:C:4910:GLU:CG	2.42	0.96
1:A:4181:ILE:CD1	1:A:4991:PHE:CG	2.48	0.96
1:C:681:HIS:HA	1:C:716:PHE:HD1	1.20	0.96
1:C:4181:ILE:CD1	1:C:4991:PHE:CG	2.48	0.96
1:A:1452:TRP:CB	1:A:1527:MET:HE1	1.95	0.96
1:A:49:LEU:HD11	1:A:189:LEU:HB2	1.48	0.96
1:C:1122:TYR:HD1	1:C:1133:HIS:HD1	1.13	0.96
1:C:1452:TRP:CB	1:C:1527:MET:HE1	1.95	0.96
1:G:1961:PHE:CE2	1:G:2063:LEU:CD2	2.48	0.96
1:G:4904:PRO:CG	1:G:4910:GLU:HG2	1.93	0.96
1:E:600:LEU:HD21	1:E:1666:THR:HA	1.44	0.96
1:E:3669:PHE:CD1	1:E:3670:GLU:N	2.33	0.96
1:G:4181:ILE:CD1	1:G:4991:PHE:CG	2.48	0.96
1:A:1122:TYR:HD1	1:A:1133:HIS:HD1	1.13	0.96
1:E:1452:TRP:CD1	1:E:1527:MET:HE3	2.01	0.96
1:E:4904:PRO:CG	1:E:4910:GLU:HG2	1.93	0.96
1:C:49:LEU:HD11	1:C:189:LEU:HB2	1.48	0.96
1:C:682:LEU:HD21	1:C:787:VAL:HG11	0.98	0.96
1:E:1961:PHE:CE2	1:E:2063:LEU:CD2	2.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:681:HIS:HA	1:G:716:PHE:HD1	1.20	0.96
1:E:1122:TYR:CD1	1:E:1133:HIS:ND1	2.18	0.96
1:G:1122:TYR:HE1	1:G:1133:HIS:CE1	1.69	0.96
1:G:1808:ARG:HB2	1:G:1854:PHE:CE1	2.01	0.96
1:E:682:LEU:HD21	1:E:787:VAL:HG11	0.98	0.95
1:E:1767:VAL:O	1:E:1769:THR:HG23	1.66	0.95
1:A:1478:ASP:O	1:A:1480:GLN:N	1.99	0.95
1:G:49:LEU:HD11	1:G:189:LEU:HB2	1.48	0.95
1:A:1961:PHE:CE2	1:A:2063:LEU:CD2	2.48	0.95
1:A:3669:PHE:CD1	1:A:3670:GLU:N	2.33	0.95
1:A:3839:CYS:SG	1:A:3881:THR:CB	2.55	0.95
1:E:4181:ILE:CD1	1:E:4991:PHE:CG	2.48	0.95
1:E:1808:ARG:HB2	1:E:1854:PHE:CE1	2.01	0.95
1:G:1452:TRP:CD1	1:G:1527:MET:HE3	2.01	0.95
1:G:3669:PHE:CD1	1:G:3670:GLU:N	2.33	0.95
1:C:3839:CYS:SG	1:C:3881:THR:CB	2.55	0.95
1:A:1808:ARG:HB2	1:A:1854:PHE:CE1	2.01	0.95
1:A:4686:LEU:CG	1:A:4687:TYR:CD1	2.50	0.95
1:C:4686:LEU:CG	1:C:4687:TYR:CD1	2.50	0.95
1:E:1018:ASN:HB3	1:E:1021:LEU:HD21	0.97	0.95
1:C:1808:ARG:HB2	1:C:1854:PHE:CE1	2.01	0.95
1:A:592:LYS:CE	1:A:1596:GLU:OE2	2.15	0.94
1:C:592:LYS:CE	1:C:1596:GLU:OE2	2.15	0.94
1:C:716:PHE:CD2	1:C:717:ASP:HB3	2.02	0.94
1:C:4686:LEU:CA	1:C:4690:GLU:HB2	1.97	0.94
1:C:4901:ILE:HD13	1:C:4913:ARG:CZ	1.97	0.94
1:G:4686:LEU:CG	1:G:4687:TYR:CD1	2.50	0.94
1:E:592:LYS:CE	1:E:1596:GLU:OE2	2.15	0.94
1:E:45:ARG:HH21	1:E:116:MET:CE	1.80	0.94
1:C:1767:VAL:O	1:C:1769:THR:HG23	1.66	0.94
1:G:1848:LEU:HD12	1:G:1853:ILE:HD12	1.49	0.94
1:C:45:ARG:HH21	1:C:116:MET:CE	1.80	0.94
1:C:1478:ASP:O	1:C:1480:GLN:N	1.99	0.94
1:E:1478:ASP:O	1:E:1480:GLN:N	1.99	0.94
1:G:1018:ASN:HB3	1:G:1021:LEU:HD21	0.97	0.94
1:A:3670:GLU:HG2	1:A:3728:ILE:CG2	1.98	0.94
1:A:4901:ILE:HD13	1:A:4913:ARG:CZ	1.97	0.94
1:E:3839:CYS:SG	1:E:3881:THR:CB	2.55	0.94
1:G:45:ARG:HH21	1:G:116:MET:CE	1.80	0.94
1:G:3670:GLU:HG2	1:G:3728:ILE:CG2	1.98	0.94
1:G:592:LYS:CE	1:G:1596:GLU:OE2	2.15	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1478:ASP:O	1:G:1480:GLN:N	1.99	0.94
1:E:716:PHE:CD2	1:E:717:ASP:HB3	2.02	0.94
1:G:1767:VAL:O	1:G:1769:THR:HG23	1.66	0.94
1:A:716:PHE:CD2	1:A:717:ASP:HB3	2.02	0.93
1:A:1767:VAL:O	1:A:1769:THR:HG23	1.66	0.93
1:C:4904:PRO:CB	1:C:4910:GLU:HB2	1.96	0.93
1:E:125:ARG:CB	1:E:134:ASP:OD1	2.17	0.93
1:G:4901:ILE:HD13	1:G:4913:ARG:CZ	1.97	0.93
1:A:45:ARG:HH21	1:A:116:MET:CE	1.80	0.93
1:A:1743:ARG:HB2	1:A:1963:GLU:HG2	1.50	0.93
1:E:1961:PHE:HZ	1:E:2063:LEU:HD23	1.11	0.93
1:E:1965:TYR:CE1	1:E:1969:LEU:HB2	2.04	0.93
1:E:4904:PRO:CB	1:E:4910:GLU:HB2	1.96	0.93
1:G:3839:CYS:SG	1:G:3881:THR:CB	2.55	0.93
1:C:125:ARG:CB	1:C:134:ASP:OD1	2.17	0.93
1:C:1848:LEU:HD12	1:C:1853:ILE:HD12	1.49	0.93
1:E:1131:ARG:CD	1:E:1139:PHE:HB2	1.98	0.93
1:E:1848:LEU:HD12	1:E:1853:ILE:HD12	1.49	0.93
1:E:4901:ILE:HD13	1:E:4913:ARG:CZ	1.97	0.93
1:G:4686:LEU:CA	1:G:4690:GLU:HB2	1.97	0.93
2:D:24:VAL:HG12	2:D:103:LEU:HA	1.51	0.93
1:E:3670:GLU:HG2	1:E:3728:ILE:CG2	1.98	0.93
2:H:24:VAL:HG12	2:H:103:LEU:HA	1.51	0.93
1:C:3670:GLU:HG2	1:C:3728:ILE:CG2	1.98	0.93
1:G:682:LEU:HD12	1:G:783:PHE:CA	1.99	0.93
1:A:4686:LEU:HG	1:A:4687:TYR:HD1	1.30	0.93
1:G:716:PHE:CD2	1:G:717:ASP:HB3	2.02	0.93
1:G:1965:TYR:CE1	1:G:1969:LEU:HB2	2.04	0.93
1:G:4904:PRO:CB	1:G:4910:GLU:HB2	1.96	0.93
1:C:4686:LEU:HG	1:C:4687:TYR:HD1	1.30	0.93
1:C:4904:PRO:HG2	1:C:4910:GLU:HG2	1.51	0.93
1:E:682:LEU:HD12	1:E:783:PHE:CA	1.99	0.93
1:G:125:ARG:CB	1:G:134:ASP:OD1	2.17	0.93
1:A:1131:ARG:CD	1:A:1139:PHE:HB2	1.98	0.92
1:C:1965:TYR:CE1	1:C:1969:LEU:HB2	2.04	0.92
1:E:4904:PRO:HG2	1:E:4910:GLU:HG2	1.51	0.92
1:A:125:ARG:CB	1:A:134:ASP:OD1	2.17	0.92
1:A:4083:ASP:OD2	1:A:4087:LEU:O	1.87	0.92
1:E:4686:LEU:CG	1:E:4687:TYR:CD1	2.50	0.92
1:G:3670:GLU:CG	1:G:3728:ILE:HG23	1.99	0.92
1:C:1131:ARG:CD	1:C:1139:PHE:HB2	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4083:ASP:OD2	1:C:4087:LEU:O	1.87	0.92
2:B:24:VAL:HG12	2:B:103:LEU:HA	1.51	0.92
1:E:1448:VAL:HG13	1:E:1554:VAL:CG2	2.00	0.92
1:E:4961:CYS:HG	3:E:6000:ZN:ZN	0.67	0.92
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.51	0.92
1:G:1131:ARG:CD	1:G:1139:PHE:HB2	1.98	0.92
1:G:1448:VAL:HG13	1:G:1554:VAL:CG2	2.00	0.92
1:G:4686:LEU:HG	1:G:4687:TYR:HD1	1.30	0.92
1:G:1452:TRP:CB	1:G:1527:MET:HE1	1.99	0.92
1:A:682:LEU:HD12	1:A:783:PHE:CA	1.99	0.92
1:E:1452:TRP:CB	1:E:1527:MET:HE1	1.99	0.92
1:A:1848:LEU:HD12	1:A:1853:ILE:HD12	1.49	0.92
1:C:1286:MET:HE1	1:C:1555:LEU:CD1	1.96	0.92
1:G:1743:ARG:HB2	1:G:1963:GLU:HG2	1.50	0.92
1:A:4904:PRO:CB	1:A:4910:GLU:HB2	1.96	0.92
1:C:1448:VAL:HG13	1:C:1554:VAL:CG2	2.00	0.91
1:C:4195:PHE:CE1	1:C:4197:ILE:CG1	2.50	0.91
1:A:1965:TYR:CE1	1:A:1969:LEU:HB2	2.04	0.91
1:E:4686:LEU:CA	1:E:4690:GLU:HB2	1.97	0.91
1:C:3670:GLU:CG	1:C:3728:ILE:HG23	1.99	0.91
1:E:2198:MET:HE3	1:E:2203:MET:HE3	1.50	0.91
1:A:1122:TYR:HE1	1:A:1133:HIS:CE1	1.69	0.91
1:C:1285:GLU:HG2	1:C:1286:MET:HG2	1.53	0.91
1:A:1285:GLU:HG2	1:A:1286:MET:HG2	1.53	0.91
1:A:1772:ARG:HH12	1:A:1952:GLN:HE22	1.18	0.91
1:E:3670:GLU:CG	1:E:3728:ILE:HG23	1.99	0.91
1:G:1122:TYR:HD1	1:G:1133:HIS:HD1	1.13	0.91
1:G:1297:PHE:CD1	1:G:1520:VAL:HG22	2.06	0.91
1:C:682:LEU:HD12	1:C:783:PHE:CA	1.99	0.91
1:E:1285:GLU:HG2	1:E:1286:MET:HG2	1.53	0.91
1:G:4961:CYS:HG	3:G:6000:ZN:ZN	0.67	0.91
1:E:49:LEU:HD11	1:E:189:LEU:HB2	1.48	0.91
1:E:1743:ARG:HB2	1:E:1963:GLU:HG2	1.50	0.91
1:E:4083:ASP:OD2	1:E:4087:LEU:O	1.87	0.91
1:E:1122:TYR:HD1	1:E:1133:HIS:HD1	1.13	0.91
1:A:4686:LEU:CA	1:A:4690:GLU:HB2	1.97	0.91
1:G:4083:ASP:OD2	1:G:4087:LEU:O	1.87	0.91
1:G:4904:PRO:HG2	1:G:4910:GLU:HG2	1.51	0.91
1:A:1122:TYR:HE1	1:A:1133:HIS:ND1	1.55	0.90
1:C:46:LEU:HD12	1:C:125:ARG:CZ	2.02	0.90
1:C:1297:PHE:CD1	1:C:1520:VAL:HG22	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:592:LYS:CE	1:G:1596:GLU:CD	2.39	0.90
1:A:273:HIS:CE1	1:A:334:MET:CE	2.54	0.90
1:C:592:LYS:CE	1:C:1596:GLU:CD	2.39	0.90
1:C:1122:TYR:CE1	1:C:1133:HIS:HE1	1.88	0.90
1:E:1297:PHE:CD1	1:E:1520:VAL:HG22	2.06	0.90
1:G:1772:ARG:HH12	1:G:1952:GLN:HE22	1.18	0.90
1:A:1297:PHE:CD1	1:A:1520:VAL:HG22	2.06	0.90
1:C:1743:ARG:HB2	1:C:1963:GLU:HG2	1.50	0.90
1:C:1965:TYR:CE1	1:C:1969:LEU:HD22	2.07	0.90
1:E:46:LEU:HD12	1:E:125:ARG:CZ	2.02	0.90
1:E:1763:PRO:HD2	1:E:1863:LEU:HD11	0.91	0.90
1:E:4686:LEU:HG	1:E:4687:TYR:HD1	1.30	0.90
1:A:3670:GLU:CG	1:A:3728:ILE:HG23	1.99	0.90
1:C:1122:TYR:HE1	1:C:1133:HIS:CE1	1.69	0.90
1:E:4195:PHE:CE1	1:E:4197:ILE:CG1	2.50	0.90
1:G:273:HIS:CE1	1:G:334:MET:CE	2.54	0.90
1:A:592:LYS:CE	1:A:1596:GLU:CD	2.39	0.90
1:A:4904:PRO:HG2	1:A:4910:GLU:HG2	1.51	0.90
1:C:716:PHE:CE2	1:C:717:ASP:HB2	2.07	0.90
1:E:592:LYS:CE	1:E:1596:GLU:CD	2.39	0.90
1:E:1286:MET:HE3	1:E:1555:LEU:HD11	1.51	0.90
1:E:273:HIS:CE1	1:E:334:MET:CE	2.54	0.90
1:G:554:LEU:HD21	1:G:1597:VAL:HG23	1.52	0.90
1:G:1285:GLU:HG2	1:G:1286:MET:HG2	1.53	0.90
1:A:554:LEU:HD21	1:A:1597:VAL:HG23	1.52	0.90
1:C:1763:PRO:HD2	1:C:1863:LEU:HD11	0.91	0.90
1:C:2198:MET:HE3	1:C:2203:MET:HE3	1.54	0.90
1:A:125:ARG:CD	1:A:134:ASP:OD2	2.20	0.89
1:C:273:HIS:CE1	1:C:334:MET:CE	2.54	0.89
1:E:4010:ILE:HD12	1:E:4011:GLU:H	1.33	0.89
1:A:1965:TYR:CE1	1:A:1969:LEU:HD22	2.07	0.89
1:E:554:LEU:HD21	1:E:1597:VAL:HG23	1.52	0.89
1:G:4010:ILE:HD12	1:G:4011:GLU:H	1.33	0.89
1:A:46:LEU:HD12	1:A:125:ARG:CZ	2.02	0.89
1:E:125:ARG:CD	1:E:134:ASP:OD2	2.20	0.89
1:A:1961:PHE:HZ	1:A:2063:LEU:HD23	1.11	0.89
1:C:554:LEU:HD21	1:C:1597:VAL:HG23	1.52	0.89
1:C:1961:PHE:HZ	1:C:2063:LEU:HD23	1.11	0.89
2:F:26:TYR:H	2:F:39:SER:CB	1.86	0.89
1:G:1965:TYR:CE1	1:G:1969:LEU:HD22	2.07	0.89
1:E:1122:TYR:CE1	1:E:1133:HIS:HE1	1.88	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4686:LEU:HA	1:G:4690:GLU:CB	2.00	0.89
1:A:20:VAL:HG12	1:A:204:PRO:HA	1.54	0.89
1:A:1448:VAL:HG13	1:A:1554:VAL:CG2	2.00	0.89
1:C:596:ASN:HB3	1:C:599:VAL:HG23	1.54	0.89
1:G:46:LEU:HD12	1:G:125:ARG:CZ	2.02	0.89
1:G:125:ARG:CD	1:G:134:ASP:OD2	2.20	0.89
1:A:1286:MET:HE3	1:A:1555:LEU:CD1	1.96	0.89
1:C:1479:GLU:OE1	1:C:1480:GLN:N	2.06	0.89
1:C:4686:LEU:HA	1:C:4690:GLU:CB	2.00	0.89
2:D:26:TYR:H	2:D:39:SER:CB	1.86	0.89
1:A:596:ASN:HB3	1:A:599:VAL:HG23	1.54	0.89
2:H:26:TYR:H	2:H:39:SER:CB	1.86	0.89
1:C:125:ARG:CD	1:C:134:ASP:OD2	2.20	0.89
1:E:1479:GLU:OE1	1:E:1480:GLN:N	2.06	0.89
1:E:4686:LEU:HA	1:E:4690:GLU:CB	2.00	0.89
1:C:1772:ARG:HH12	1:C:1952:GLN:HE22	1.18	0.88
1:A:1763:PRO:HD2	1:A:1863:LEU:HD11	0.91	0.88
1:C:20:VAL:HG12	1:C:204:PRO:HA	1.54	0.88
1:C:1297:PHE:HE1	1:C:1520:VAL:CG2	1.80	0.88
1:G:1297:PHE:HE1	1:G:1520:VAL:CG2	1.80	0.88
2:B:26:TYR:H	2:B:39:SER:CB	1.86	0.88
1:E:596:ASN:HB3	1:E:599:VAL:HG23	1.54	0.88
1:G:20:VAL:HG12	1:G:204:PRO:HA	1.54	0.88
1:G:596:ASN:HB3	1:G:599:VAL:HG23	1.54	0.88
1:A:716:PHE:CE2	1:A:717:ASP:HB2	2.07	0.88
1:A:4686:LEU:CD2	1:A:4687:TYR:CD1	2.57	0.88
1:A:1479:GLU:OE1	1:A:1480:GLN:N	2.06	0.88
1:E:1772:ARG:HH12	1:E:1952:GLN:HE22	1.18	0.88
1:G:1763:PRO:HD2	1:G:1863:LEU:HD11	0.91	0.88
1:G:4686:LEU:CD2	1:G:4687:TYR:CD1	2.57	0.88
1:E:1965:TYR:CE1	1:E:1969:LEU:HD22	2.07	0.88
1:E:3842:LEU:HB3	1:E:3929:SER:HB3	1.56	0.88
1:C:1122:TYR:HE1	1:C:1133:HIS:ND1	1.55	0.87
1:E:4904:PRO:HD3	1:E:4913:ARG:HD3	1.56	0.87
1:G:682:LEU:HD11	1:G:783:PHE:HB2	1.56	0.87
1:G:716:PHE:CE2	1:G:717:ASP:HB2	2.07	0.87
1:A:49:LEU:CD1	1:A:189:LEU:C	2.30	0.87
1:C:4686:LEU:CD2	1:C:4687:TYR:CD1	2.57	0.87
1:E:4010:ILE:CD1	1:E:4011:GLU:N	2.36	0.87
2:F:26:TYR:O	2:F:39:SER:OG	1.91	0.87
1:G:4961:CYS:SG	3:G:6000:ZN:ZN	1.64	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4195:PHE:CE1	1:A:4197:ILE:CG1	2.50	0.87
1:E:4961:CYS:SG	3:E:6000:ZN:ZN	1.64	0.87
1:G:716:PHE:CG	1:G:717:ASP:N	2.32	0.87
2:H:26:TYR:O	2:H:39:SER:OG	1.91	0.87
1:A:4961:CYS:SG	3:A:6000:ZN:ZN	1.64	0.87
1:G:3842:LEU:HB3	1:G:3929:SER:HB3	1.56	0.87
1:E:20:VAL:HG12	1:E:204:PRO:HA	1.54	0.87
1:A:4010:ILE:HD12	1:A:4011:GLU:H	1.33	0.87
2:D:26:TYR:O	2:D:39:SER:OG	1.91	0.87
1:G:1598:GLN:O	1:G:1600:LEU:N	2.08	0.87
1:C:4904:PRO:HD3	1:C:4913:ARG:HD3	1.56	0.86
1:E:716:PHE:CE2	1:E:717:ASP:HB2	2.07	0.86
1:E:4686:LEU:CD2	1:E:4687:TYR:CD1	2.57	0.86
1:G:1961:PHE:HZ	1:G:2063:LEU:HD23	1.11	0.86
1:A:682:LEU:HD11	1:A:783:PHE:HB2	1.56	0.86
1:C:49:LEU:CD1	1:C:189:LEU:C	2.30	0.86
1:C:682:LEU:HD11	1:C:783:PHE:HB2	1.56	0.86
1:C:3842:LEU:HB3	1:C:3929:SER:HB3	1.56	0.86
1:G:1479:GLU:OE1	1:G:1480:GLN:N	2.06	0.86
1:A:683:ARG:HD2	1:A:705:ASN:HB3	1.57	0.86
1:A:1598:GLN:O	1:A:1600:LEU:N	2.08	0.86
2:B:26:TYR:O	2:B:39:SER:OG	1.91	0.86
1:G:49:LEU:CD1	1:G:189:LEU:C	2.30	0.86
1:G:683:ARG:HD2	1:G:705:ASN:HB3	1.57	0.86
1:C:1516:ILE:CB	1:C:1530:THR:OG1	2.24	0.86
1:G:4904:PRO:CB	1:G:4910:GLU:HA	2.06	0.86
1:C:1452:TRP:O	1:C:1493:UNK:CB	2.24	0.86
1:G:515:TRP:CZ3	1:G:555:GLU:CG	2.59	0.86
1:G:1452:TRP:O	1:G:1493:UNK:CB	2.24	0.86
1:G:3669:PHE:HD1	1:G:3670:GLU:H	1.22	0.86
1:A:4904:PRO:HD3	1:A:4913:ARG:HD3	1.56	0.86
1:A:515:TRP:CZ3	1:A:555:GLU:CG	2.59	0.86
1:A:1516:ILE:CB	1:A:1530:THR:OG1	2.24	0.86
1:C:515:TRP:CZ3	1:C:555:GLU:CG	2.59	0.86
1:E:4686:LEU:CG	1:E:4687:TYR:HD1	1.87	0.86
1:G:1516:ILE:CB	1:G:1530:THR:OG1	2.24	0.86
1:A:1122:TYR:CE1	1:A:1133:HIS:HE1	1.88	0.86
1:A:1297:PHE:HE1	1:A:1520:VAL:CG2	1.80	0.86
1:A:1452:TRP:O	1:A:1493:UNK:CB	2.24	0.86
1:E:682:LEU:HD11	1:E:783:PHE:HB2	1.56	0.86
1:C:4961:CYS:SG	3:C:6000:ZN:ZN	1.64	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1286:MET:H	1:E:1555:LEU:HD12	1.41	0.85
1:E:1516:ILE:CB	1:E:1530:THR:OG1	2.24	0.85
1:G:4195:PHE:CE1	1:G:4197:ILE:CG1	2.50	0.85
1:C:4904:PRO:CB	1:C:4910:GLU:HA	2.06	0.85
1:E:683:ARG:HD2	1:E:705:ASN:HB3	1.57	0.85
1:E:1598:GLN:O	1:E:1600:LEU:N	2.08	0.85
1:E:721:LEU:CD2	1:E:767:VAL:HG11	2.06	0.85
1:E:1452:TRP:O	1:E:1493:UNK:CB	2.24	0.85
1:G:1286:MET:H	1:G:1555:LEU:HD12	1.41	0.85
1:G:1122:TYR:HE1	1:G:1133:HIS:ND1	1.55	0.85
1:G:4686:LEU:CG	1:G:4687:TYR:HD1	1.87	0.85
1:A:3842:LEU:HB3	1:A:3929:SER:HB3	1.56	0.85
1:G:4904:PRO:HD3	1:G:4913:ARG:HD3	1.56	0.85
1:E:4904:PRO:CB	1:E:4910:GLU:HA	2.06	0.85
1:E:1132:TRP:CD1	1:E:1136:SER:HA	2.12	0.85
1:E:1452:TRP:CD1	1:E:1527:MET:CE	2.60	0.85
1:G:805:PRO:HD2	1:G:806:PRO:N	1.91	0.85
1:A:4182:GLU:HG2	1:A:4192:ARG:HB3	1.58	0.85
1:A:4904:PRO:CB	1:A:4910:GLU:HA	2.06	0.85
1:C:1598:GLN:O	1:C:1600:LEU:N	2.08	0.85
1:A:1132:TRP:CD1	1:A:1136:SER:HA	2.12	0.85
2:B:40:ARG:O	2:B:43:ASN:N	2.10	0.85
1:C:1132:TRP:CD1	1:C:1136:SER:HA	2.12	0.85
1:E:49:LEU:CD1	1:E:189:LEU:CB	2.55	0.85
1:E:515:TRP:CZ3	1:E:555:GLU:CG	2.59	0.85
1:E:644:ILE:HG21	1:E:823:LEU:HB2	1.59	0.85
1:A:1762:LEU:HD12	1:A:1764:GLY:H	1.42	0.84
1:C:721:LEU:CD2	1:C:767:VAL:HG11	2.06	0.84
1:A:721:LEU:CD2	1:A:767:VAL:HG11	2.06	0.84
1:A:3669:PHE:HD1	1:A:3670:GLU:H	1.22	0.84
1:C:4182:GLU:HG2	1:C:4192:ARG:HB3	1.58	0.84
1:C:4692:PRO:CG	1:C:4700:GLN:NE2	2.41	0.84
2:D:40:ARG:O	2:D:43:ASN:N	2.10	0.84
1:G:1452:TRP:CG	1:G:1527:MET:HE1	2.13	0.84
1:G:1132:TRP:CD1	1:G:1136:SER:HA	2.12	0.84
1:C:644:ILE:HG21	1:C:823:LEU:HB2	1.59	0.84
1:C:805:PRO:HD2	1:C:806:PRO:N	1.91	0.84
1:E:805:PRO:HD2	1:E:806:PRO:N	1.91	0.84
1:E:1452:TRP:CG	1:E:1527:MET:HE1	2.13	0.84
1:E:1762:LEU:HD12	1:E:1764:GLY:H	1.42	0.84
1:A:805:PRO:HD2	1:A:806:PRO:N	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1452:TRP:CD1	1:A:1527:MET:CE	2.60	0.84
1:C:1452:TRP:CD1	1:C:1527:MET:CE	2.60	0.84
1:G:1452:TRP:CD1	1:G:1527:MET:CE	2.60	0.84
1:G:49:LEU:CD1	1:G:189:LEU:CB	2.55	0.84
2:H:40:ARG:O	2:H:43:ASN:N	2.10	0.84
1:C:49:LEU:CD1	1:C:189:LEU:CB	2.55	0.84
1:C:4898:GLY:HA2	1:C:4901:ILE:CG2	2.08	0.84
1:E:4898:GLY:HA2	1:E:4901:ILE:CG2	2.08	0.84
1:G:644:ILE:HG21	1:G:823:LEU:HB2	1.59	0.84
1:G:721:LEU:CD2	1:G:767:VAL:HG11	2.06	0.84
1:A:45:ARG:HH21	1:A:116:MET:HE1	1.40	0.84
1:G:4010:ILE:CD1	1:G:4011:GLU:N	2.36	0.84
1:A:1286:MET:H	1:A:1555:LEU:HD12	1.41	0.84
1:A:49:LEU:CD1	1:A:189:LEU:CB	2.55	0.84
1:C:4010:ILE:HD12	1:C:4011:GLU:H	1.33	0.83
1:C:4686:LEU:CD2	1:C:4687:TYR:HD1	1.90	0.83
1:E:49:LEU:HD11	1:E:189:LEU:O	1.46	0.83
1:E:716:PHE:CG	1:E:717:ASP:N	2.32	0.83
2:F:40:ARG:O	2:F:43:ASN:N	2.10	0.83
1:A:4898:GLY:HA2	1:A:4901:ILE:CG2	2.08	0.83
1:C:683:ARG:HD2	1:C:705:ASN:HB3	1.57	0.83
1:C:1762:LEU:HD12	1:C:1764:GLY:H	1.42	0.83
1:E:49:LEU:CD1	1:E:189:LEU:C	2.30	0.83
1:E:682:LEU:HD11	1:E:783:PHE:CB	2.08	0.83
1:E:1452:TRP:HB2	1:E:1527:MET:HE1	1.59	0.83
1:A:644:ILE:HG21	1:A:823:LEU:HB2	1.59	0.83
1:A:4693:GLY:C	1:A:4695:ASP:H	1.82	0.83
1:C:758:ARG:NH1	1:C:804:PRO:HB3	1.93	0.83
1:E:4010:ILE:O	1:E:4013:LEU:N	2.11	0.83
1:E:4692:PRO:CG	1:E:4700:GLN:NE2	2.41	0.83
1:G:4898:GLY:HA2	1:G:4901:ILE:CG2	2.08	0.83
1:A:4010:ILE:O	1:A:4013:LEU:N	2.11	0.83
1:C:682:LEU:HD11	1:C:783:PHE:CB	2.08	0.83
1:E:1297:PHE:HE1	1:E:1520:VAL:CG2	1.80	0.83
1:E:4686:LEU:CD2	1:E:4687:TYR:HD1	1.90	0.83
1:G:758:ARG:NH1	1:G:804:PRO:HB3	1.93	0.83
1:G:1122:TYR:CE1	1:G:1133:HIS:HE1	1.88	0.83
1:G:1452:TRP:HB2	1:G:1527:MET:HE1	1.59	0.83
1:G:4693:GLY:C	1:G:4695:ASP:H	1.82	0.83
1:A:1131:ARG:HD3	1:A:1139:PHE:CB	2.07	0.83
1:A:4010:ILE:CD1	1:A:4011:GLU:N	2.36	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1452:TRP:HB2	1:C:1527:MET:HE1	1.59	0.83
1:G:4010:ILE:O	1:G:4013:LEU:N	2.11	0.83
1:G:4182:GLU:HG2	1:G:4192:ARG:HB3	1.58	0.83
1:C:1286:MET:H	1:C:1555:LEU:HD12	1.41	0.83
1:G:716:PHE:CD2	1:G:717:ASP:CB	2.61	0.83
1:A:682:LEU:HD11	1:A:783:PHE:CB	2.08	0.83
1:A:2198:MET:HE3	1:A:2203:MET:HE3	1.58	0.83
1:E:758:ARG:NH1	1:E:804:PRO:HB3	1.93	0.83
1:A:1965:TYR:OH	1:A:1969:LEU:HD13	1.79	0.83
1:A:4686:LEU:CD2	1:A:4687:TYR:HD1	1.90	0.83
1:C:1848:LEU:CD2	1:C:1854:PHE:HZ	1.91	0.83
1:C:3669:PHE:HD1	1:C:3670:GLU:H	1.22	0.83
1:E:1131:ARG:HD3	1:E:1139:PHE:CB	2.07	0.83
1:G:1286:MET:HE3	1:G:1555:LEU:CD1	1.97	0.83
1:G:4686:LEU:CD2	1:G:4687:TYR:HD1	1.90	0.83
1:C:4010:ILE:CD1	1:C:4011:GLU:N	2.36	0.83
1:E:1733:GLU:OE2	1:E:2163:ARG:NH2	2.12	0.83
1:E:3669:PHE:HD1	1:E:3670:GLU:H	1.22	0.83
1:G:682:LEU:HD11	1:G:783:PHE:CB	2.08	0.83
1:G:1448:VAL:HG22	1:G:1554:VAL:HG13	1.60	0.83
1:G:1848:LEU:CD2	1:G:1854:PHE:HZ	1.91	0.83
1:G:4692:PRO:CG	1:G:4700:GLN:NE2	2.41	0.83
1:A:1848:LEU:CD2	1:A:1854:PHE:HZ	1.91	0.82
1:A:4181:ILE:HG23	1:A:4195:PHE:CD2	2.14	0.82
1:C:12:GLN:HB3	1:C:13:PHE:CE1	2.14	0.82
1:C:4686:LEU:CG	1:C:4687:TYR:HD1	1.87	0.82
1:E:4181:ILE:HG23	1:E:4195:PHE:CD2	2.14	0.82
1:C:1965:TYR:OH	1:C:1969:LEU:HD13	1.79	0.82
1:E:12:GLN:HB3	1:E:13:PHE:CE1	2.14	0.82
1:E:721:LEU:HD22	1:E:767:VAL:HG11	1.61	0.82
1:E:1448:VAL:HG22	1:E:1554:VAL:HG13	1.60	0.82
1:A:716:PHE:CG	1:A:717:ASP:N	2.32	0.82
1:A:758:ARG:NH1	1:A:804:PRO:HB3	1.93	0.82
1:C:721:LEU:HD22	1:C:767:VAL:HG11	1.61	0.82
1:G:1733:GLU:OE2	1:G:2163:ARG:NH2	2.12	0.82
1:G:4181:ILE:HG23	1:G:4195:PHE:CD2	2.14	0.82
1:A:4687:TYR:OH	1:A:4702:ASP:HB2	1.80	0.82
1:A:12:GLN:HB3	1:A:13:PHE:CE1	2.14	0.82
1:A:4686:LEU:CG	1:A:4687:TYR:HD1	1.87	0.82
1:C:2256:TYR:HD1	1:C:2260:ASN:HD21	1.28	0.82
1:A:716:PHE:CD2	1:A:717:ASP:CB	2.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1452:TRP:HB2	1:A:1527:MET:HE1	1.59	0.82
1:A:4686:LEU:HD21	1:A:4687:TYR:CD1	2.14	0.82
1:G:12:GLN:HB3	1:G:13:PHE:CE1	2.14	0.82
1:A:4692:PRO:CG	1:A:4700:GLN:NE2	2.41	0.82
1:E:1965:TYR:OH	1:E:1969:LEU:HD13	1.79	0.82
1:E:4687:TYR:OH	1:E:4702:ASP:HB2	1.80	0.82
1:C:4010:ILE:O	1:C:4013:LEU:N	2.11	0.82
1:E:1848:LEU:CD2	1:E:1854:PHE:HZ	1.91	0.82
1:E:4182:GLU:HG2	1:E:4192:ARG:HB3	1.58	0.82
1:A:1297:PHE:HE1	1:A:1520:VAL:HG22	1.01	0.81
1:A:1733:GLU:OE2	1:A:2163:ARG:NH2	2.12	0.81
1:E:3969:ILE:HD11	1:E:3980:LEU:HD13	1.61	0.81
1:A:1448:VAL:HG22	1:A:1554:VAL:HG13	1.60	0.81
1:C:1733:GLU:OE2	1:C:2163:ARG:NH2	2.12	0.81
1:C:4181:ILE:HG23	1:C:4195:PHE:CD2	2.14	0.81
1:C:4686:LEU:HD21	1:C:4687:TYR:CD1	2.14	0.81
1:G:1131:ARG:HD3	1:G:1139:PHE:CB	2.07	0.81
1:G:1762:LEU:HD12	1:G:1764:GLY:H	1.42	0.81
1:C:1131:ARG:HD3	1:C:1139:PHE:CB	2.07	0.81
1:G:1293:LEU:HB3	1:G:1584:ARG:HG2	1.62	0.81
1:G:1965:TYR:OH	1:G:1969:LEU:HD13	1.79	0.81
1:G:4686:LEU:HD21	1:G:4687:TYR:CD1	2.14	0.81
1:C:1448:VAL:HG22	1:C:1554:VAL:HG13	1.60	0.81
1:C:3969:ILE:HD11	1:C:3980:LEU:HD13	1.61	0.81
1:A:125:ARG:HD3	1:A:134:ASP:OD2	1.81	0.81
1:E:716:PHE:CD2	1:E:717:ASP:CB	2.61	0.81
1:E:4686:LEU:HD21	1:E:4687:TYR:CD1	2.14	0.81
1:A:3969:ILE:HD11	1:A:3980:LEU:HD13	1.61	0.81
1:G:125:ARG:HD3	1:G:134:ASP:OD2	1.81	0.81
1:E:125:ARG:HD3	1:E:134:ASP:OD2	1.81	0.81
1:G:598:LYS:HD2	1:G:598:LYS:N	1.96	0.81
1:G:4687:TYR:OH	1:G:4702:ASP:HB2	1.80	0.81
1:E:1808:ARG:CB	1:E:1854:PHE:CE1	2.64	0.81
1:A:721:LEU:HD23	1:A:767:VAL:CG1	2.11	0.81
1:A:4007:SER:O	1:A:4010:ILE:HG13	1.81	0.81
1:C:716:PHE:CD2	1:C:717:ASP:CB	2.61	0.81
1:C:1848:LEU:CD1	1:C:1853:ILE:HD12	2.11	0.81
1:C:4687:TYR:OH	1:C:4702:ASP:HB2	1.80	0.81
1:E:1293:LEU:HB3	1:E:1584:ARG:HG2	1.62	0.81
1:E:3970:GLN:HA	1:E:3970:GLN:NE2	1.96	0.81
1:A:1293:LEU:HB3	1:A:1584:ARG:HG2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3970:GLN:HA	1:A:3970:GLN:NE2	1.96	0.80
2:F:26:TYR:CD1	2:F:39:SER:HB3	2.17	0.80
1:G:1297:PHE:HE1	1:G:1520:VAL:HG22	1.01	0.80
1:G:1848:LEU:CD1	1:G:1853:ILE:HD12	2.11	0.80
1:C:125:ARG:HD3	1:C:134:ASP:OD2	1.81	0.80
1:G:4195:PHE:HE1	1:G:4197:ILE:HG12	1.45	0.80
1:C:4007:SER:O	1:C:4010:ILE:HG13	1.81	0.80
1:E:195:PHE:HE1	1:G:2358:ILE:CG2	1.95	0.80
1:E:841:GLY:HA2	1:E:843:SER:H	1.45	0.80
1:A:1743:ARG:CG	1:A:1963:GLU:HG3	2.12	0.80
1:A:2256:TYR:HD1	1:A:2260:ASN:HD21	1.28	0.80
1:E:597:HIS:CD2	1:E:1661:ARG:HD3	2.16	0.80
1:E:721:LEU:HD23	1:E:767:VAL:CG1	2.11	0.80
2:H:26:TYR:CD1	2:H:39:SER:HB3	2.17	0.80
1:C:596:ASN:CB	1:C:599:VAL:HG23	2.12	0.80
1:E:598:LYS:HD2	1:E:598:LYS:N	1.96	0.80
1:E:2256:TYR:HD1	1:E:2260:ASN:HD21	1.28	0.80
1:G:3970:GLN:HA	1:G:3970:GLN:NE2	1.96	0.80
1:A:4195:PHE:HE1	1:A:4197:ILE:HG12	1.45	0.80
1:C:597:HIS:CD2	1:C:1661:ARG:HD3	2.16	0.80
1:E:596:ASN:CB	1:E:599:VAL:HG23	2.12	0.80
1:G:4904:PRO:CB	1:G:4910:GLU:CA	2.60	0.80
1:C:1452:TRP:CD1	1:C:1527:MET:HE3	2.17	0.80
1:E:1286:MET:CE	1:E:1555:LEU:HD11	2.05	0.80
1:A:4686:LEU:CD1	1:A:4687:TYR:CE1	2.65	0.80
1:E:45:ARG:NH2	1:E:116:MET:CE	2.45	0.80
1:E:1848:LEU:CD1	1:E:1853:ILE:HD12	2.11	0.80
1:G:1808:ARG:CB	1:G:1854:PHE:HE1	1.95	0.80
1:G:1808:ARG:CB	1:G:1854:PHE:CE1	2.64	0.80
1:A:596:ASN:CB	1:A:599:VAL:HG23	2.12	0.80
1:C:4214:LYS:HE2	1:C:4985:LEU:HD23	1.64	0.80
1:E:600:LEU:HD23	1:E:1665:HIS:O	1.82	0.80
1:G:3969:ILE:HD11	1:G:3980:LEU:HD13	1.61	0.80
1:A:45:ARG:NH2	1:A:116:MET:CE	2.45	0.80
1:A:597:HIS:CD2	1:A:1661:ARG:HD3	2.16	0.80
1:A:721:LEU:HD22	1:A:767:VAL:HG11	1.61	0.80
1:A:841:GLY:HA2	1:A:843:SER:H	1.45	0.80
1:A:3839:CYS:SG	1:A:3881:THR:HG21	2.22	0.80
1:A:4686:LEU:HA	1:A:4690:GLU:CB	2.00	0.80
1:C:841:GLY:HA2	1:C:843:SER:H	1.45	0.80
1:C:1743:ARG:HG3	1:C:1963:GLU:HG3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3970:GLN:HA	1:C:3970:GLN:NE2	1.96	0.80
1:E:4007:SER:O	1:E:4010:ILE:HG13	1.81	0.80
1:E:4179:GLY:O	1:E:4195:PHE:CD2	2.35	0.80
1:G:597:HIS:CD2	1:G:1661:ARG:HD3	2.16	0.80
1:G:721:LEU:HD23	1:G:767:VAL:CG1	2.11	0.80
1:A:1808:ARG:CB	1:A:1854:PHE:CE1	2.64	0.79
1:A:1848:LEU:CD1	1:A:1853:ILE:HD12	2.11	0.79
1:C:598:LYS:HD2	1:C:598:LYS:N	1.96	0.79
1:C:4928:LEU:HD23	1:C:4931:ILE:HD12	1.64	0.79
1:E:4904:PRO:CB	1:E:4910:GLU:CA	2.60	0.79
1:G:596:ASN:CB	1:G:599:VAL:HG23	2.12	0.79
1:A:598:LYS:HD2	1:A:598:LYS:N	1.96	0.79
1:A:1808:ARG:CB	1:A:1854:PHE:HE1	1.95	0.79
1:A:4904:PRO:CB	1:A:4910:GLU:CA	2.60	0.79
2:B:26:TYR:CD1	2:B:39:SER:HB3	2.17	0.79
1:C:45:ARG:HH21	1:C:116:MET:HE1	1.46	0.79
1:C:721:LEU:HD23	1:C:767:VAL:CG1	2.11	0.79
1:C:1211:LEU:HD23	1:C:1212:ARG:H	1.48	0.79
1:C:1808:ARG:CB	1:C:1854:PHE:CE1	2.64	0.79
1:E:1297:PHE:HB2	1:E:1545:ASN:HA	1.64	0.79
1:C:4179:GLY:O	1:C:4195:PHE:CD2	2.35	0.79
1:E:1743:ARG:HG3	1:E:1963:GLU:HG3	1.64	0.79
1:G:516:LYS:HG3	1:G:555:GLU:OE2	1.82	0.79
1:C:1743:ARG:CG	1:C:1963:GLU:HG3	2.12	0.79
1:C:1808:ARG:CB	1:C:1854:PHE:HE1	1.95	0.79
2:D:26:TYR:CD1	2:D:39:SER:HB3	2.17	0.79
1:E:1211:LEU:HD23	1:E:1212:ARG:H	1.48	0.79
1:E:1808:ARG:CB	1:E:1854:PHE:HE1	1.95	0.79
1:A:4179:GLY:O	1:A:4195:PHE:CD2	2.35	0.79
1:C:1297:PHE:HB2	1:C:1545:ASN:HA	1.64	0.79
1:C:4686:LEU:CD1	1:C:4687:TYR:CE1	2.65	0.79
1:G:2256:TYR:HD1	1:G:2260:ASN:HD21	1.28	0.79
1:A:516:LYS:HG3	1:A:555:GLU:OE2	1.82	0.79
1:A:646:PRO:CB	1:A:793:LEU:HD11	2.13	0.79
1:A:4934:GLY:HA3	1:C:4937:ILE:HG12	1.65	0.79
1:E:1818:ALA:HB1	1:E:1838:PHE:HE1	1.48	0.79
1:E:4214:LYS:HE2	1:E:4985:LEU:HD23	1.64	0.79
1:E:4928:LEU:HD23	1:E:4931:ILE:HD12	1.64	0.79
1:G:1211:LEU:HD23	1:G:1212:ARG:H	1.48	0.79
1:G:1297:PHE:HB2	1:G:1545:ASN:HA	1.64	0.79
1:G:1743:ARG:CG	1:G:1963:GLU:HG3	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4007:SER:O	1:G:4010:ILE:HG13	1.81	0.79
1:A:684:VAL:N	1:A:714:TYR:O	2.12	0.79
1:C:1293:LEU:HB3	1:C:1584:ARG:HG2	1.62	0.79
1:G:1818:ALA:HB1	1:G:1838:PHE:HE1	1.48	0.79
1:G:4179:GLY:O	1:G:4195:PHE:CD2	2.35	0.79
1:A:1780:PRO:HG2	2:B:42:ARG:HE	1.47	0.79
1:C:2533:ALA:HA	1:C:2550:LEU:HD22	1.65	0.79
1:E:1743:ARG:CG	1:E:1963:GLU:HG3	2.12	0.79
1:G:4686:LEU:CD1	1:G:4687:TYR:CE1	2.65	0.79
1:A:2358:ILE:CG2	1:G:195:PHE:HE1	1.95	0.79
1:C:716:PHE:CG	1:C:717:ASP:N	2.32	0.79
1:G:600:LEU:HD23	1:G:1665:HIS:O	1.82	0.79
1:A:1211:LEU:HD23	1:A:1212:ARG:H	1.48	0.79
1:A:4904:PRO:HB2	1:A:4910:GLU:CA	2.13	0.79
1:C:4904:PRO:CB	1:C:4910:GLU:CA	2.60	0.79
1:G:1780:PRO:HG2	2:H:42:ARG:HE	1.47	0.79
1:C:600:LEU:HD23	1:C:1665:HIS:O	1.82	0.78
1:E:4686:LEU:CD1	1:E:4687:TYR:CE1	2.65	0.78
1:G:45:ARG:NH2	1:G:116:MET:CE	2.45	0.78
1:G:841:GLY:HA2	1:G:843:SER:H	1.45	0.78
1:G:4904:PRO:HB2	1:G:4910:GLU:CA	2.13	0.78
1:A:600:LEU:HD23	1:A:1665:HIS:O	1.82	0.78
1:A:835:ARG:HH22	1:A:1211:LEU:HD13	1.47	0.78
1:C:45:ARG:NH2	1:C:116:MET:CE	2.45	0.78
1:C:516:LYS:HG3	1:C:555:GLU:OE2	1.82	0.78
1:C:1452:TRP:HB2	1:C:1527:MET:CE	2.13	0.78
1:C:1818:ALA:HB1	1:C:1838:PHE:HE1	1.48	0.78
1:C:2198:MET:CE	1:C:2203:MET:HE1	2.11	0.78
1:C:4934:GLY:HA3	1:E:4937:ILE:HG12	1.65	0.78
1:G:646:PRO:CB	1:G:793:LEU:HD11	2.13	0.78
1:A:1818:ALA:HB1	1:A:1838:PHE:HE1	1.48	0.78
1:E:45:ARG:HH21	1:E:116:MET:HE1	1.46	0.78
1:E:4182:GLU:HG2	1:E:4192:ARG:CB	2.13	0.78
1:G:45:ARG:HH21	1:G:116:MET:HE1	1.44	0.78
1:A:4182:GLU:HG2	1:A:4192:ARG:CB	2.13	0.78
1:E:2533:ALA:HA	1:E:2550:LEU:HD22	1.65	0.78
1:A:4937:ILE:HG12	1:G:4934:GLY:HA3	1.65	0.78
1:C:195:PHE:HE1	1:E:2358:ILE:CG2	1.95	0.78
1:E:516:LYS:HG3	1:E:555:GLU:OE2	1.82	0.78
1:E:2882:TYR:HB3	1:E:2919:ASP:OD2	1.83	0.78
1:C:1780:PRO:HG2	2:D:42:ARG:HE	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1452:TRP:HB2	1:E:1527:MET:CE	2.13	0.78
1:G:218:HIS:CE1	1:G:341:TYR:OH	2.37	0.78
1:G:4928:LEU:HD23	1:G:4931:ILE:HD12	1.64	0.78
1:A:195:PHE:HE1	1:C:2358:ILE:CG2	1.95	0.78
1:C:4693:GLY:C	1:C:4695:ASP:H	1.82	0.78
1:E:5017:ARG:HH11	1:E:5019:TRP:HZ2	1.31	0.78
1:C:2882:TYR:HB3	1:C:2919:ASP:OD2	1.83	0.78
1:C:4195:PHE:HE1	1:C:4197:ILE:HG12	1.45	0.78
1:E:3839:CYS:SG	1:E:3881:THR:HG21	2.22	0.78
1:A:597:HIS:CD2	1:A:1661:ARG:CD	2.67	0.78
1:C:597:HIS:CD2	1:C:1661:ARG:CD	2.67	0.78
1:C:684:VAL:N	1:C:714:TYR:O	2.12	0.78
1:G:597:HIS:CD2	1:G:1661:ARG:CD	2.67	0.78
1:C:592:LYS:HE2	1:C:1596:GLU:OE1	1.84	0.78
1:C:4182:GLU:HG2	1:C:4192:ARG:CB	2.13	0.78
1:E:1231:GLN:NE2	1:E:1824:GLN:OE1	2.18	0.78
1:G:3841:VAL:HG12	1:G:3842:LEU:N	1.99	0.78
1:G:5017:ARG:HH11	1:G:5019:TRP:HZ2	1.31	0.78
1:A:4692:PRO:CD	1:A:4703:ARG:HH21	1.92	0.77
1:E:4195:PHE:HE1	1:E:4197:ILE:HG12	1.45	0.77
1:E:4904:PRO:HB2	1:E:4910:GLU:CA	2.13	0.77
1:G:993:HIS:CE1	1:G:1020:ARG:O	2.38	0.77
1:G:1231:GLN:NE2	1:G:1824:GLN:OE1	2.18	0.77
1:G:3839:CYS:SG	1:G:3881:THR:HG21	2.22	0.77
1:G:4182:GLU:HG2	1:G:4192:ARG:CB	2.13	0.77
1:G:4214:LYS:HE2	1:G:4985:LEU:HD23	1.64	0.77
1:G:4686:LEU:HD21	1:G:4687:TYR:CE1	2.19	0.77
1:A:4182:GLU:OE2	1:A:4982:GLU:OE1	2.02	0.77
1:C:218:HIS:CE1	1:C:341:TYR:OH	2.37	0.77
1:E:592:LYS:HE2	1:E:1596:GLU:OE1	1.84	0.77
1:E:684:VAL:N	1:E:714:TYR:O	2.12	0.77
1:E:835:ARG:HH22	1:E:1211:LEU:HD13	1.47	0.77
1:G:684:VAL:N	1:G:714:TYR:O	2.12	0.77
1:G:1452:TRP:HB2	1:G:1527:MET:CE	2.13	0.77
1:G:2882:TYR:HB3	1:G:2919:ASP:OD2	1.83	0.77
1:A:1297:PHE:HB2	1:A:1545:ASN:HA	1.64	0.77
1:A:4182:GLU:HA	1:A:4192:ARG:HA	1.67	0.77
1:G:4680:LYS:HA	1:G:4684:ASP:HB2	1.66	0.77
1:A:1452:TRP:CD1	1:A:1527:MET:HE3	2.19	0.77
1:A:1762:LEU:HD12	1:A:1764:GLY:N	2.00	0.77
1:C:684:VAL:HG13	1:C:781:VAL:HG22	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4680:LYS:HA	1:C:4684:ASP:HB2	1.66	0.77
1:E:4934:GLY:HA3	1:G:4937:ILE:HG12	1.65	0.77
1:G:1743:ARG:HG3	1:G:1963:GLU:HG3	1.64	0.77
1:A:218:HIS:CE1	1:A:341:TYR:OH	2.37	0.77
1:A:2882:TYR:HB3	1:A:2919:ASP:OD2	1.83	0.77
1:A:3841:VAL:HG12	1:A:3842:LEU:N	1.99	0.77
1:A:4680:LYS:HA	1:A:4684:ASP:HB2	1.66	0.77
1:A:4686:LEU:HD21	1:A:4687:TYR:CE1	2.19	0.77
1:C:1231:GLN:NE2	1:C:1824:GLN:OE1	2.18	0.77
1:C:4904:PRO:HB2	1:C:4910:GLU:CA	2.13	0.77
1:E:4680:LYS:HA	1:E:4684:ASP:HB2	1.66	0.77
1:G:49:LEU:HD11	1:G:189:LEU:CB	2.14	0.77
1:G:1762:LEU:HD12	1:G:1764:GLY:N	2.00	0.77
1:A:993:HIS:CE1	1:A:1020:ARG:O	2.38	0.77
1:A:4928:LEU:HD23	1:A:4931:ILE:HD12	1.64	0.77
1:C:1762:LEU:HD12	1:C:1764:GLY:N	2.00	0.77
1:E:1780:PRO:HG2	2:F:42:ARG:HE	1.47	0.77
1:G:684:VAL:HG13	1:G:781:VAL:HG22	1.66	0.77
1:G:4182:GLU:OE2	1:G:4982:GLU:OE1	2.02	0.77
1:A:4984:ASN:O	1:A:4986:ALA:N	2.18	0.77
1:C:1297:PHE:HE1	1:C:1520:VAL:HG22	1.01	0.77
1:E:218:HIS:CE1	1:E:341:TYR:OH	2.37	0.77
1:E:597:HIS:CD2	1:E:1661:ARG:CD	2.67	0.77
1:E:993:HIS:CE1	1:E:1020:ARG:O	2.38	0.77
1:A:1452:TRP:HB2	1:A:1527:MET:CE	2.13	0.77
1:A:1743:ARG:HG3	1:A:1963:GLU:HG3	1.64	0.77
1:E:1762:LEU:HD12	1:E:1764:GLY:N	2.00	0.77
1:E:4182:GLU:HA	1:E:4192:ARG:HA	1.67	0.77
1:G:835:ARG:HH22	1:G:1211:LEU:HD13	1.47	0.77
1:G:1854:PHE:HB3	1:G:1858:ASP:HB2	1.67	0.77
1:G:4181:ILE:HD11	1:G:4991:PHE:CE2	2.20	0.77
1:A:1231:GLN:NE2	1:A:1824:GLN:OE1	2.18	0.77
1:A:1854:PHE:HB3	1:A:1858:ASP:HB2	1.67	0.77
1:A:4181:ILE:HD11	1:A:4991:PHE:CE2	2.20	0.77
1:C:835:ARG:HH22	1:C:1211:LEU:HD13	1.47	0.77
1:E:646:PRO:CB	1:E:793:LEU:HD11	2.13	0.77
1:E:4686:LEU:HD21	1:E:4687:TYR:CE1	2.19	0.77
1:G:1965:TYR:HE1	1:G:1969:LEU:CD2	1.97	0.77
1:G:4984:ASN:O	1:G:4986:ALA:N	2.18	0.77
1:A:4214:LYS:HE2	1:A:4985:LEU:HD23	1.64	0.77
1:C:646:PRO:CB	1:C:793:LEU:HD11	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4181:ILE:HD11	1:C:4991:PHE:CE2	2.20	0.77
1:C:4182:GLU:HA	1:C:4192:ARG:HA	1.67	0.77
1:G:592:LYS:HE2	1:G:1596:GLU:OE1	1.84	0.77
1:G:4182:GLU:HA	1:G:4192:ARG:HA	1.67	0.77
1:A:1965:TYR:HE1	1:A:1969:LEU:CD2	1.97	0.76
1:C:5017:ARG:HH11	1:C:5019:TRP:HZ2	1.31	0.76
1:E:4182:GLU:OE2	1:E:4982:GLU:OE1	2.02	0.76
1:E:4693:GLY:C	1:E:4695:ASP:H	1.82	0.76
1:A:592:LYS:HE2	1:A:1596:GLU:OE1	1.84	0.76
1:A:684:VAL:HG13	1:A:781:VAL:HG22	1.66	0.76
1:A:49:LEU:HD11	1:A:189:LEU:CB	2.14	0.76
1:C:4961:CYS:HG	3:C:6000:ZN:ZN	0.99	0.76
1:E:4181:ILE:HD11	1:E:4991:PHE:CE2	2.20	0.76
1:E:4692:PRO:CD	1:E:4703:ARG:HH21	1.92	0.76
1:G:2533:ALA:HA	1:G:2550:LEU:HD22	1.65	0.76
1:A:4904:PRO:HB3	1:A:4910:GLU:HA	1.68	0.76
1:C:4182:GLU:OE2	1:C:4982:GLU:OE1	2.02	0.76
1:E:49:LEU:HD11	1:E:189:LEU:CB	2.14	0.76
1:E:1735:ILE:HD11	1:E:2156:LEU:HD11	1.68	0.76
1:E:3841:VAL:HG12	1:E:3842:LEU:N	1.99	0.76
1:E:4680:LYS:O	1:E:4684:ASP:HB2	1.85	0.76
1:G:125:ARG:CB	1:G:134:ASP:OD2	2.32	0.76
1:G:3837:GLN:HA	1:G:3837:GLN:NE2	2.00	0.76
1:C:682:LEU:CD1	1:C:783:PHE:CA	2.62	0.76
1:C:993:HIS:CE1	1:C:1020:ARG:O	2.38	0.76
1:E:1965:TYR:HE1	1:E:1969:LEU:CD2	1.97	0.76
1:E:4187:SER:HB2	1:E:4189:ARG:HE	1.50	0.76
1:E:4862:PHE:HB3	1:E:4901:ILE:HG13	1.68	0.76
1:G:721:LEU:HD22	1:G:767:VAL:HG11	1.61	0.76
1:G:1703:LEU:HD12	1:G:1704:PRO:HD2	1.67	0.76
1:A:2533:ALA:HA	1:A:2550:LEU:HD22	1.65	0.76
1:A:3837:GLN:HA	1:A:3837:GLN:NE2	2.00	0.76
1:A:4862:PHE:HB3	1:A:4901:ILE:HG13	1.68	0.76
1:C:1735:ILE:HD11	1:C:2156:LEU:HD11	1.68	0.76
1:C:3980:LEU:HD21	1:C:3985:LEU:HD22	1.68	0.76
1:E:273:HIS:HE1	1:E:334:MET:HE1	1.48	0.76
1:C:3841:VAL:HG12	1:C:3842:LEU:N	1.99	0.76
1:C:4984:ASN:O	1:C:4986:ALA:N	2.18	0.76
1:E:49:LEU:CD2	1:E:191:VAL:HG23	2.16	0.76
1:A:5017:ARG:HH11	1:A:5019:TRP:HZ2	1.31	0.76
1:C:273:HIS:HE1	1:C:334:MET:HE1	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3980:LEU:HD21	1:E:3985:LEU:HD22	1.68	0.76
1:A:3980:LEU:HD21	1:A:3985:LEU:HD22	1.68	0.75
1:C:49:LEU:HD11	1:C:189:LEU:CB	2.14	0.75
1:C:4181:ILE:HG23	1:C:4195:PHE:HD2	1.51	0.75
1:C:4187:SER:HB2	1:C:4189:ARG:HE	1.50	0.75
1:C:4680:LYS:O	1:C:4684:ASP:HB2	1.85	0.75
1:C:4686:LEU:HD21	1:C:4687:TYR:CE1	2.19	0.75
1:C:4862:PHE:HB3	1:C:4901:ILE:HG13	1.68	0.75
1:E:667:MET:HB2	1:E:790:ARG:HB2	1.69	0.75
1:E:1297:PHE:HE1	1:E:1520:VAL:HG22	1.01	0.75
1:E:1452:TRP:HD1	1:E:1527:MET:HE3	1.50	0.75
1:A:667:MET:HB2	1:A:790:ARG:HB2	1.69	0.75
1:E:3837:GLN:NE2	1:E:3837:GLN:HA	2.00	0.75
1:E:4049:VAL:HG21	1:E:4159:ARG:HD3	1.69	0.75
1:E:4904:PRO:HB3	1:E:4910:GLU:HA	1.68	0.75
1:E:4984:ASN:O	1:E:4986:ALA:N	2.18	0.75
1:G:49:LEU:CD2	1:G:191:VAL:HG23	2.16	0.75
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.69	0.75
1:G:4049:VAL:HG21	1:G:4159:ARG:HD3	1.69	0.75
1:G:4187:SER:HB2	1:G:4189:ARG:HE	1.50	0.75
1:A:4049:VAL:HG21	1:A:4159:ARG:HD3	1.69	0.75
1:C:49:LEU:CD2	1:C:191:VAL:HG23	2.16	0.75
1:E:125:ARG:CB	1:E:134:ASP:OD2	2.32	0.75
1:E:684:VAL:HG13	1:E:781:VAL:HG22	1.66	0.75
1:A:4680:LYS:O	1:A:4684:ASP:HB2	1.85	0.75
1:C:667:MET:HB2	1:C:790:ARG:HB2	1.69	0.75
1:C:3837:GLN:NE2	1:C:3837:GLN:HA	2.00	0.75
1:E:4904:PRO:CG	1:E:4910:GLU:CG	2.64	0.75
1:G:46:LEU:CD1	1:G:125:ARG:CZ	2.65	0.75
1:G:667:MET:HB2	1:G:790:ARG:HB2	1.69	0.75
1:A:46:LEU:CD1	1:A:125:ARG:CZ	2.65	0.75
1:A:1735:ILE:HD11	1:A:2156:LEU:HD11	1.68	0.75
1:E:1703:LEU:HD12	1:E:1704:PRO:HD2	1.67	0.75
1:G:4904:PRO:CG	1:G:4910:GLU:CG	2.64	0.75
1:C:3669:PHE:CE1	1:C:3670:GLU:OE1	2.40	0.75
1:E:46:LEU:CD1	1:E:125:ARG:CZ	2.65	0.75
1:G:3669:PHE:CE1	1:G:3670:GLU:OE1	2.40	0.75
1:C:1703:LEU:HD12	1:C:1704:PRO:HD2	1.67	0.75
1:C:4049:VAL:HG21	1:C:4159:ARG:HD3	1.69	0.75
1:C:4904:PRO:HB3	1:C:4910:GLU:HA	1.68	0.75
1:E:4990:PHE:HA	1:E:4993:MET:HG2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1735:ILE:HD11	1:G:2156:LEU:HD11	1.68	0.75
1:A:682:LEU:CD1	1:A:783:PHE:CA	2.62	0.75
1:A:4181:ILE:HG23	1:A:4195:PHE:HD2	1.51	0.75
1:A:4187:SER:HB2	1:A:4189:ARG:HE	1.50	0.75
1:C:46:LEU:CD1	1:C:125:ARG:CZ	2.65	0.75
1:C:161:GLU:CD	1:C:164:ARG:HH21	1.91	0.75
1:G:4680:LYS:O	1:G:4684:ASP:HB2	1.85	0.75
1:G:4862:PHE:HB3	1:G:4901:ILE:HG13	1.68	0.75
1:C:1767:VAL:O	1:C:1769:THR:CG2	2.35	0.74
1:E:758:ARG:HG2	1:E:763:PRO:HA	1.69	0.74
1:G:4686:LEU:CD1	1:G:4687:TYR:HE1	1.98	0.74
1:A:49:LEU:CD2	1:A:191:VAL:HG23	2.16	0.74
1:E:4994:TYR:HE2	1:E:5007:GLU:OE2	1.70	0.74
1:G:3906:GLN:HE21	1:G:3909:ASN:HD22	1.36	0.74
1:G:3980:LEU:HD21	1:G:3985:LEU:HD22	1.68	0.74
1:A:2882:TYR:CB	1:A:2919:ASP:OD2	2.35	0.74
1:A:3669:PHE:CE1	1:A:3670:GLU:OE1	2.40	0.74
1:A:3906:GLN:HE21	1:A:3909:ASN:HD22	1.36	0.74
1:C:125:ARG:CB	1:C:134:ASP:OD2	2.32	0.74
1:C:2882:TYR:CB	1:C:2919:ASP:OD2	2.35	0.74
1:E:4686:LEU:CD1	1:E:4687:TYR:HE1	1.98	0.74
1:G:1961:PHE:HZ	1:G:2063:LEU:HA	1.52	0.74
1:A:161:GLU:CD	1:A:164:ARG:HH21	1.91	0.74
1:C:758:ARG:HG2	1:C:763:PRO:HA	1.69	0.74
1:E:1961:PHE:HZ	1:E:2063:LEU:HA	1.52	0.74
1:E:4181:ILE:HG23	1:E:4195:PHE:HD2	1.51	0.74
1:G:4138:ASP:O	1:G:4142:ASN:ND2	2.21	0.74
1:G:4904:PRO:HB3	1:G:4910:GLU:HA	1.68	0.74
1:A:758:ARG:HG2	1:A:763:PRO:HA	1.69	0.74
1:A:4138:ASP:O	1:A:4142:ASN:ND2	2.21	0.74
1:C:1854:PHE:HB3	1:C:1858:ASP:HB2	1.67	0.74
1:C:1965:TYR:HE1	1:C:1969:LEU:CD2	1.97	0.74
1:C:3839:CYS:SG	1:C:3881:THR:HG21	2.22	0.74
1:E:1854:PHE:HB3	1:E:1858:ASP:HB2	1.67	0.74
1:G:830:ARG:HD3	1:G:1612:PHE:HZ	1.52	0.74
1:A:721:LEU:HD13	1:A:768:PHE:CE1	2.23	0.74
1:A:1830:VAL:HB	1:A:1837:GLN:HG2	1.70	0.74
1:A:4990:PHE:HA	1:A:4993:MET:HG2	1.69	0.74
1:C:1477:GLY:HA2	1:C:1483:VAL:HA	1.69	0.74
1:A:600:LEU:CD2	1:A:1665:HIS:C	2.56	0.74
1:A:1679:ASN:HB3	1:A:1799:SER:H	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1848:LEU:HG	1:A:1854:PHE:CZ	2.23	0.74
1:A:1961:PHE:HZ	1:A:2063:LEU:HA	1.52	0.74
1:G:1767:VAL:O	1:G:1769:THR:CG2	2.35	0.74
1:G:4181:ILE:HG23	1:G:4195:PHE:HD2	1.51	0.74
1:A:235:ALA:O	1:A:238:SER:OG	2.06	0.74
1:C:45:ARG:NH2	1:C:116:MET:HE2	2.03	0.74
1:C:183:SER:N	1:C:190:GLN:O	2.21	0.74
1:C:830:ARG:HD3	1:C:1612:PHE:HZ	1.52	0.74
1:G:1848:LEU:HG	1:G:1854:PHE:CZ	2.23	0.74
1:G:3839:CYS:SG	1:G:3881:THR:HB	2.27	0.74
1:A:1477:GLY:HA2	1:A:1483:VAL:HA	1.69	0.74
1:C:4994:TYR:HE2	1:C:5007:GLU:OE2	1.70	0.74
1:E:161:GLU:CD	1:E:164:ARG:HH21	1.91	0.74
1:E:183:SER:N	1:E:190:GLN:O	2.21	0.74
1:E:682:LEU:CD1	1:E:783:PHE:CA	2.62	0.74
1:E:830:ARG:HD3	1:E:1612:PHE:HZ	1.52	0.74
1:E:1830:VAL:HB	1:E:1837:GLN:HG2	1.70	0.74
1:A:1703:LEU:HD12	1:A:1704:PRO:HD2	1.67	0.74
1:C:1679:ASN:HB3	1:C:1799:SER:H	1.53	0.74
1:C:1848:LEU:HG	1:C:1854:PHE:CZ	2.23	0.74
1:E:3669:PHE:CE1	1:E:3670:GLU:OE1	2.40	0.74
1:G:183:SER:N	1:G:190:GLN:O	2.21	0.74
1:G:1830:VAL:HB	1:G:1837:GLN:HG2	1.70	0.74
1:G:2882:TYR:CB	1:G:2919:ASP:OD2	2.35	0.74
1:A:183:SER:N	1:A:190:GLN:O	2.21	0.73
1:G:600:LEU:HD23	1:G:1665:HIS:C	2.09	0.73
1:A:46:LEU:CD1	1:A:125:ARG:NE	2.51	0.73
1:A:125:ARG:CB	1:A:134:ASP:OD2	2.32	0.73
1:C:600:LEU:HD23	1:C:1665:HIS:C	2.09	0.73
1:E:46:LEU:CD1	1:E:125:ARG:NE	2.51	0.73
1:E:3906:GLN:HE21	1:E:3909:ASN:HD22	1.36	0.73
1:G:721:LEU:HD13	1:G:768:PHE:CE1	2.23	0.73
1:G:758:ARG:HG2	1:G:763:PRO:HA	1.69	0.73
1:G:4994:TYR:HE2	1:G:5007:GLU:OE2	1.70	0.73
1:A:554:LEU:CD1	1:A:593:HIS:NE2	2.42	0.73
1:A:2198:MET:CE	1:A:2203:MET:HE1	2.18	0.73
1:E:45:ARG:NH2	1:E:116:MET:HE2	2.03	0.73
1:G:46:LEU:CD1	1:G:125:ARG:NE	2.51	0.73
1:G:1152:MET:HB2	1:G:1161:ILE:HB	1.70	0.73
1:G:4708:THR:HG22	1:G:4710:SER:H	1.53	0.73
1:A:4961:CYS:HG	3:A:6000:ZN:ZN	1.00	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4980:LEU:HA	1:A:4984:ASN:HB3	1.71	0.73
1:E:1679:ASN:HB3	1:E:1799:SER:H	1.53	0.73
1:E:2882:TYR:CB	1:E:2919:ASP:OD2	2.35	0.73
1:C:600:LEU:CD2	1:C:1665:HIS:C	2.56	0.73
1:C:1830:VAL:HB	1:C:1837:GLN:HG2	1.70	0.73
1:E:600:LEU:HD23	1:E:1665:HIS:C	2.09	0.73
1:G:161:GLU:CD	1:G:164:ARG:HH21	1.91	0.73
1:G:1131:ARG:HH11	1:G:1131:ARG:HG3	1.53	0.73
1:G:4990:PHE:HA	1:G:4993:MET:HG2	1.69	0.73
1:C:1132:TRP:HE1	1:C:1136:SER:N	1.87	0.73
1:C:3839:CYS:SG	1:C:3881:THR:HB	2.27	0.73
1:C:3906:GLN:HE21	1:C:3909:ASN:HD22	1.36	0.73
1:E:4138:ASP:O	1:E:4142:ASN:ND2	2.21	0.73
1:C:721:LEU:HD13	1:C:768:PHE:CE1	2.23	0.73
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.69	0.73
1:G:235:ALA:O	1:G:238:SER:OG	2.06	0.73
1:G:1706:PRO:N	1:G:1836:PHE:HE2	1.87	0.73
1:A:1132:TRP:HE1	1:A:1136:SER:N	1.87	0.73
1:A:4994:TYR:HE2	1:A:5007:GLU:OE2	1.70	0.73
1:C:46:LEU:CD1	1:C:125:ARG:NE	2.51	0.73
1:C:1706:PRO:N	1:C:1836:PHE:HE2	1.87	0.73
1:E:1706:PRO:N	1:E:1836:PHE:HE2	1.87	0.73
1:E:3839:CYS:SG	1:E:3881:THR:HB	2.27	0.73
1:G:1679:ASN:HB3	1:G:1799:SER:H	1.53	0.73
1:G:3841:VAL:CG1	1:G:3929:SER:OG	2.37	0.73
1:A:830:ARG:HD3	1:A:1612:PHE:HZ	1.52	0.73
1:E:721:LEU:HD13	1:E:768:PHE:CE1	2.23	0.73
1:E:3841:VAL:CG1	1:E:3929:SER:OG	2.37	0.73
1:E:4708:THR:HG22	1:E:4710:SER:H	1.53	0.73
2:B:14:THR:HG22	2:B:106:LEU:HD12	1.70	0.73
1:C:706:GLY:H	1:C:711:LEU:HD13	1.54	0.73
1:C:4138:ASP:O	1:C:4142:ASN:ND2	2.21	0.73
1:C:4990:PHE:HA	1:C:4993:MET:HG2	1.69	0.73
1:G:4980:LEU:HA	1:G:4984:ASN:HB3	1.71	0.73
1:A:3839:CYS:SG	1:A:3881:THR:HB	2.27	0.72
2:B:26:TYR:O	2:B:39:SER:N	2.22	0.72
1:C:235:ALA:O	1:C:238:SER:OG	2.06	0.72
1:C:554:LEU:CD2	1:C:1597:VAL:HG23	2.19	0.72
2:F:14:THR:HG22	2:F:106:LEU:HD12	1.70	0.72
1:A:706:GLY:H	1:A:711:LEU:HD13	1.54	0.72
1:A:4708:THR:HG22	1:A:4710:SER:H	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1132:TRP:HE1	1:E:1136:SER:N	1.87	0.72
1:G:682:LEU:CD1	1:G:783:PHE:CA	2.62	0.72
1:G:1182:ILE:HD12	1:G:1188:PHE:HE2	1.54	0.72
1:A:3841:VAL:CG1	1:A:3929:SER:OG	2.37	0.72
1:E:235:ALA:O	1:E:238:SER:OG	2.06	0.72
1:E:600:LEU:CD2	1:E:1665:HIS:C	2.56	0.72
1:E:1152:MET:HB2	1:E:1161:ILE:HB	1.70	0.72
1:E:1848:LEU:HG	1:E:1854:PHE:CZ	2.23	0.72
1:E:4010:ILE:HD12	1:E:4011:GLU:CA	2.20	0.72
1:G:600:LEU:CD2	1:G:1665:HIS:C	2.56	0.72
1:A:1131:ARG:HH11	1:A:1131:ARG:HG3	1.53	0.72
1:C:4010:ILE:HD12	1:C:4011:GLU:CA	2.20	0.72
1:C:4980:LEU:HA	1:C:4984:ASN:HB3	1.71	0.72
1:E:1182:ILE:HD12	1:E:1188:PHE:HE2	1.54	0.72
1:E:4980:LEU:HA	1:E:4984:ASN:HB3	1.71	0.72
1:G:1132:TRP:HE1	1:G:1136:SER:N	1.87	0.72
1:G:1288:PHE:HE2	1:G:1462:HIS:HA	1.55	0.72
1:G:1482:ASN:O	1:G:1483:VAL:CB	2.38	0.72
1:A:4181:ILE:HD11	1:A:4991:PHE:CD2	2.24	0.72
1:C:592:LYS:NZ	1:C:1596:GLU:OE2	2.23	0.72
1:C:4005:GLN:HB2	1:C:4006:ASP:OD1	1.90	0.72
1:G:4692:PRO:CD	1:G:4703:ARG:HH21	1.92	0.72
2:H:14:THR:HG22	2:H:106:LEU:HD12	1.70	0.72
1:A:622:THR:HG21	1:A:1681:VAL:HG13	1.72	0.72
1:A:4686:LEU:CD1	1:A:4687:TYR:HE1	1.98	0.72
1:C:1482:ASN:O	1:C:1483:VAL:CB	2.38	0.72
1:C:3906:GLN:HG2	1:C:3909:ASN:HB2	1.72	0.72
1:E:592:LYS:NZ	1:E:1596:GLU:OE2	2.23	0.72
1:E:1767:VAL:O	1:E:1769:THR:CG2	2.35	0.72
1:G:45:ARG:NH2	1:G:116:MET:HE2	2.05	0.72
1:G:1452:TRP:HD1	1:G:1527:MET:HE3	1.50	0.72
1:C:3813:GLN:NE2	1:C:3891:LEU:O	2.23	0.72
1:C:4708:THR:HG22	1:C:4710:SER:H	1.53	0.72
2:D:14:THR:HG22	2:D:106:LEU:HD12	1.70	0.72
1:E:622:THR:HG21	1:E:1681:VAL:HG13	1.72	0.72
1:E:706:GLY:H	1:E:711:LEU:HD13	1.54	0.72
1:G:3813:GLN:NE2	1:G:3891:LEU:O	2.23	0.72
1:A:600:LEU:HD23	1:A:1665:HIS:C	2.09	0.72
1:A:1767:VAL:O	1:A:1769:THR:CG2	2.35	0.72
1:C:1182:ILE:HD12	1:C:1188:PHE:HE2	1.54	0.72
1:C:1961:PHE:HZ	1:C:2063:LEU:HA	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4686:LEU:CD1	1:C:4687:TYR:HE1	1.98	0.72
1:E:1122:TYR:HE1	1:E:1133:HIS:ND1	1.55	0.72
1:E:2198:MET:CE	1:E:2203:MET:HE1	2.20	0.72
1:E:4005:GLN:HB2	1:E:4006:ASP:OD1	1.90	0.72
1:A:554:LEU:CD2	1:A:1597:VAL:HG23	2.19	0.72
1:A:3839:CYS:O	1:A:3840:SER:OG	2.06	0.72
1:C:3841:VAL:CG1	1:C:3929:SER:OG	2.37	0.72
1:G:683:ARG:NH1	1:G:722:TRP:CG	2.58	0.72
1:A:1182:ILE:HD12	1:A:1188:PHE:HE2	1.54	0.72
1:A:1482:ASN:O	1:A:1483:VAL:CB	2.38	0.72
1:A:1706:PRO:N	1:A:1836:PHE:HE2	1.87	0.72
1:A:2198:MET:CE	1:A:2203:MET:HE3	2.15	0.72
1:C:1152:MET:HB2	1:C:1161:ILE:HB	1.70	0.72
1:C:1947:CYS:SG	1:C:2127:GLN:NE2	2.63	0.72
1:E:683:ARG:NH1	1:E:722:TRP:CG	2.58	0.72
1:G:554:LEU:CD2	1:G:1597:VAL:HG23	2.19	0.72
1:A:592:LYS:NZ	1:A:1596:GLU:OE2	2.23	0.71
1:A:3813:GLN:NE2	1:A:3891:LEU:O	2.23	0.71
1:E:1131:ARG:HG3	1:E:1131:ARG:HH11	1.53	0.71
1:E:4708:THR:HG21	1:E:4775:TYR:HB2	1.72	0.71
1:A:683:ARG:NH2	1:A:722:TRP:CD1	2.58	0.71
1:A:1152:MET:HB2	1:A:1161:ILE:HB	1.70	0.71
1:C:622:THR:HG21	1:C:1681:VAL:HG13	1.72	0.71
1:C:683:ARG:NH1	1:C:722:TRP:CG	2.58	0.71
1:C:683:ARG:NH2	1:C:722:TRP:CD1	2.58	0.71
2:D:26:TYR:O	2:D:39:SER:N	2.22	0.71
1:G:4005:GLN:HB2	1:G:4006:ASP:OD1	1.90	0.71
1:A:273:HIS:HE1	1:A:334:MET:HE1	1.48	0.71
1:A:683:ARG:NH1	1:A:722:TRP:CG	2.58	0.71
1:A:1947:CYS:SG	1:A:2127:GLN:NE2	2.63	0.71
1:C:1288:PHE:HE2	1:C:1462:HIS:HA	1.55	0.71
1:G:1947:CYS:SG	1:G:2127:GLN:NE2	2.63	0.71
2:H:26:TYR:O	2:H:39:SER:N	2.22	0.71
1:A:1288:PHE:HE2	1:A:1462:HIS:HA	1.55	0.71
1:A:4182:GLU:OE2	1:A:5028:PHE:HB2	1.91	0.71
1:C:111:HIS:HD2	1:C:114:SER:H	1.37	0.71
1:E:554:LEU:CD2	1:E:1597:VAL:HG23	2.19	0.71
1:E:683:ARG:NH2	1:E:722:TRP:CD1	2.58	0.71
1:G:683:ARG:NH2	1:G:722:TRP:CD1	2.58	0.71
1:G:1111:PRO:HG3	1:G:1609:PRO:HD3	1.72	0.71
1:G:3906:GLN:HG2	1:G:3909:ASN:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:HIS:HD2	1:A:114:SER:H	1.37	0.71
1:A:1111:PRO:HG3	1:A:1609:PRO:HD3	1.72	0.71
1:A:2256:TYR:HD1	1:A:2260:ASN:ND2	1.88	0.71
1:A:4005:GLN:HB2	1:A:4006:ASP:OD1	1.90	0.71
1:C:1131:ARG:NH1	1:C:1131:ARG:HG3	2.05	0.71
1:C:4181:ILE:HD11	1:C:4991:PHE:CD2	2.24	0.71
1:E:1947:CYS:SG	1:E:2127:GLN:NE2	2.63	0.71
1:G:592:LYS:NZ	1:G:1596:GLU:OE2	2.23	0.71
1:G:1848:LEU:CD2	1:G:1854:PHE:CZ	2.74	0.71
1:G:2152:THR:HG22	1:G:2190:VAL:HG11	1.72	0.71
1:G:4083:ASP:OD2	1:G:4087:LEU:C	2.29	0.71
1:A:1808:ARG:HB3	1:A:1854:PHE:HE1	1.56	0.71
1:A:2152:THR:HG22	1:A:2190:VAL:HG11	1.72	0.71
1:A:4685:GLY:O	1:A:4689:THR:N	2.21	0.71
1:A:4904:PRO:CG	1:A:4910:GLU:CG	2.64	0.71
1:C:2256:TYR:HD1	1:C:2260:ASN:ND2	1.88	0.71
1:E:3813:GLN:NE2	1:E:3891:LEU:O	2.23	0.71
1:E:4994:TYR:CE2	1:E:5007:GLU:OE2	2.44	0.71
1:C:3839:CYS:O	1:C:3840:SER:OG	2.06	0.71
1:E:681:HIS:CA	1:E:716:PHE:CD1	2.73	0.71
1:E:1762:LEU:HD13	1:E:1763:PRO:CD	2.21	0.71
1:E:4182:GLU:OE2	1:E:5028:PHE:HB2	1.91	0.71
1:G:3839:CYS:O	1:G:3840:SER:OG	2.06	0.71
1:G:4010:ILE:HD12	1:G:4011:GLU:CA	2.20	0.71
1:C:993:HIS:HE1	1:C:1020:ARG:HB3	1.56	0.71
1:C:1848:LEU:CD2	1:C:1854:PHE:CZ	2.74	0.71
1:E:2256:TYR:HD1	1:E:2260:ASN:ND2	1.88	0.71
1:G:622:THR:HG21	1:G:1681:VAL:HG13	1.72	0.71
1:G:706:GLY:H	1:G:711:LEU:HD13	1.54	0.71
1:A:533:ASN:HB2	1:A:536:ASN:HD22	1.55	0.71
1:E:1111:PRO:HG3	1:E:1609:PRO:HD3	1.72	0.71
1:E:4083:ASP:OD2	1:E:4087:LEU:C	2.29	0.71
1:G:139:GLU:O	1:G:140:ASP:OD1	2.09	0.71
1:G:4994:TYR:CE2	1:G:5007:GLU:OE2	2.44	0.71
1:A:993:HIS:HE1	1:A:1020:ARG:HB3	1.56	0.71
1:A:4083:ASP:OD2	1:A:4087:LEU:C	2.29	0.71
1:C:4708:THR:HG21	1:C:4775:TYR:HB2	1.72	0.71
1:E:533:ASN:HB2	1:E:536:ASN:HD22	1.55	0.71
1:C:1131:ARG:HG3	1:C:1131:ARG:HH11	1.53	0.70
1:C:4083:ASP:OD2	1:C:4087:LEU:C	2.29	0.70
1:E:1288:PHE:HE2	1:E:1462:HIS:HA	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1291:LEU:HD23	1:E:1293:LEU:H	1.56	0.70
1:E:3906:GLN:HG2	1:E:3909:ASN:HB2	1.72	0.70
1:A:3906:GLN:HG2	1:A:3909:ASN:HB2	1.72	0.70
1:C:139:GLU:O	1:C:140:ASP:OD1	2.09	0.70
1:C:1808:ARG:HB3	1:C:1854:PHE:HE1	1.56	0.70
1:E:993:HIS:HE1	1:E:1020:ARG:HB3	1.56	0.70
1:G:273:HIS:HE1	1:G:334:MET:HE1	1.50	0.70
1:G:823:LEU:HD11	1:G:1621:GLY:HA3	1.73	0.70
1:G:4182:GLU:OE2	1:G:5028:PHE:HB2	1.91	0.70
1:A:4010:ILE:HD12	1:A:4011:GLU:CA	2.20	0.70
1:C:592:LYS:CE	1:C:1596:GLU:OE1	2.40	0.70
1:C:1516:ILE:CB	1:C:1530:THR:HG1	2.04	0.70
1:E:1482:ASN:O	1:E:1483:VAL:CB	2.38	0.70
1:G:533:ASN:HB2	1:G:536:ASN:HD22	1.55	0.70
1:G:1291:LEU:HD23	1:G:1293:LEU:H	1.56	0.70
1:G:2256:TYR:HD1	1:G:2260:ASN:ND2	1.88	0.70
1:A:139:GLU:O	1:A:140:ASP:OD1	2.09	0.70
1:C:533:ASN:HB2	1:C:536:ASN:HD22	1.55	0.70
1:C:1762:LEU:HD13	1:C:1763:PRO:CD	2.21	0.70
1:G:554:LEU:CD1	1:G:593:HIS:NE2	2.42	0.70
1:G:4828:SER:HA	1:G:4831:THR:HG22	1.73	0.70
1:C:1111:PRO:HG3	1:C:1609:PRO:HD3	1.72	0.70
1:E:139:GLU:O	1:E:140:ASP:OD1	2.09	0.70
1:E:823:LEU:HD11	1:E:1621:GLY:HA3	1.73	0.70
1:G:1131:ARG:HG3	1:G:1131:ARG:NH1	2.05	0.70
1:G:1762:LEU:HD13	1:G:1763:PRO:CD	2.21	0.70
1:C:1818:ALA:HB1	1:C:1838:PHE:CE1	2.26	0.70
1:C:4182:GLU:OE2	1:C:5028:PHE:HB2	1.91	0.70
1:E:1452:TRP:CG	1:E:1527:MET:CE	2.74	0.70
1:E:2152:THR:HG22	1:E:2190:VAL:HG11	1.72	0.70
1:G:993:HIS:HE1	1:G:1020:ARG:HB3	1.56	0.70
1:G:2277:ALA:HB1	1:G:2337:PHE:HD2	1.57	0.70
1:G:3970:GLN:NE2	1:G:4029:SER:HB2	2.07	0.70
1:A:4994:TYR:CE2	1:A:5007:GLU:OE2	2.44	0.70
1:E:236:ALA:HA	1:E:242:ARG:HD2	1.73	0.70
1:E:4685:GLY:O	1:E:4689:THR:N	2.21	0.70
1:E:4686:LEU:CG	1:E:4687:TYR:CE1	2.75	0.70
1:G:1452:TRP:CG	1:G:1527:MET:CE	2.74	0.70
1:G:4686:LEU:CG	1:G:4687:TYR:CE1	2.75	0.70
1:A:1131:ARG:HG3	1:A:1131:ARG:NH1	2.05	0.70
1:C:4904:PRO:CG	1:C:4910:GLU:CG	2.64	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:736:HIS:HE1	1:E:739:ALA:HB2	1.56	0.70
2:F:23:VAL:HG22	2:F:47:LYS:HG2	1.74	0.70
1:G:2159:LEU:HD11	1:G:2201:LEU:HD13	1.74	0.70
1:A:1818:ALA:HB1	1:A:1838:PHE:CE1	2.26	0.70
1:A:4828:SER:HA	1:A:4831:THR:HG22	1.73	0.70
1:C:2152:THR:HG22	1:C:2190:VAL:HG11	1.72	0.70
1:C:4686:LEU:CG	1:C:4687:TYR:CE1	2.75	0.70
1:E:167:ASP:OD1	1:G:384:MET:HE1	1.89	0.70
1:E:598:LYS:H	1:E:598:LYS:CD	2.00	0.70
1:E:4181:ILE:HD11	1:E:4991:PHE:CD2	2.24	0.70
1:G:236:ALA:HA	1:G:242:ARG:HD2	1.73	0.70
1:G:682:LEU:CD1	1:G:783:PHE:CB	2.70	0.70
1:A:1762:LEU:HD13	1:A:1763:PRO:CD	2.21	0.70
1:A:1848:LEU:CD2	1:A:1854:PHE:CZ	2.74	0.70
1:A:2198:MET:HE1	1:A:2203:MET:CE	2.19	0.70
1:A:4686:LEU:CG	1:A:4687:TYR:CE1	2.75	0.70
1:E:2277:ALA:HB1	1:E:2337:PHE:HD2	1.57	0.70
1:A:236:ALA:HA	1:A:242:ARG:HD2	1.73	0.69
1:A:2159:LEU:HD11	1:A:2201:LEU:HD13	1.74	0.69
1:A:2277:ALA:HB1	1:A:2337:PHE:HD2	1.57	0.69
1:A:4708:THR:HG21	1:A:4775:TYR:HB2	1.72	0.69
1:C:707:VAL:HA	1:C:725:HIS:HB2	1.74	0.69
1:C:736:HIS:HE1	1:C:739:ALA:HB2	1.56	0.69
1:C:4035:VAL:HG12	1:C:4036:VAL:H	1.57	0.69
1:E:682:LEU:CD1	1:E:783:PHE:CB	2.70	0.69
1:E:707:VAL:HA	1:E:725:HIS:HB2	1.74	0.69
1:E:1131:ARG:HG3	1:E:1131:ARG:NH1	2.05	0.69
1:E:4035:VAL:HG12	1:E:4036:VAL:H	1.57	0.69
2:F:26:TYR:O	2:F:39:SER:N	2.22	0.69
1:G:4181:ILE:HD11	1:G:4991:PHE:CD2	2.24	0.69
1:G:4703:ARG:O	1:G:4706:LEU:HG	1.92	0.69
1:A:823:LEU:HD11	1:A:1621:GLY:HA3	1.73	0.69
1:E:1818:ALA:HB1	1:E:1838:PHE:CE1	2.26	0.69
1:G:1808:ARG:HB3	1:G:1854:PHE:HE1	1.56	0.69
1:G:1961:PHE:CE2	1:G:2063:LEU:HD22	2.27	0.69
1:G:1516:ILE:CB	1:G:1530:THR:HG1	2.04	0.69
1:G:1818:ALA:HB1	1:G:1838:PHE:CE1	2.26	0.69
1:G:4708:THR:HG21	1:G:4775:TYR:HB2	1.72	0.69
1:A:4703:ARG:O	1:A:4706:LEU:HG	1.92	0.69
1:C:236:ALA:HA	1:C:242:ARG:HD2	1.73	0.69
1:E:2133:GLU:HG3	1:E:2136:ARG:HE	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1961:PHE:CE2	1:A:2063:LEU:HD22	2.27	0.69
1:A:3970:GLN:NE2	1:A:4029:SER:HB2	2.07	0.69
1:A:4035:VAL:HG12	1:A:4036:VAL:H	1.57	0.69
1:C:554:LEU:CD1	1:C:593:HIS:NE2	2.42	0.69
1:C:4994:TYR:CE2	1:C:5007:GLU:OE2	2.44	0.69
1:E:1848:LEU:CD2	1:E:1854:PHE:CZ	2.74	0.69
1:G:1782:PHE:CD2	2:H:37:ASP:OD2	2.46	0.69
1:E:592:LYS:CE	1:E:1596:GLU:OE1	2.40	0.69
1:E:1705:GLY:C	1:E:1836:PHE:CD2	2.66	0.69
2:H:23:VAL:HG22	2:H:47:LYS:HG2	1.74	0.69
1:A:682:LEU:CD1	1:A:783:PHE:CB	2.70	0.69
1:C:682:LEU:CD1	1:C:783:PHE:CB	2.70	0.69
1:C:1782:PHE:CD2	2:D:37:ASP:OD2	2.46	0.69
1:C:3970:GLN:NE2	1:C:4029:SER:HB2	2.07	0.69
1:A:1286:MET:H	1:A:1555:LEU:CD1	2.06	0.69
1:A:3841:VAL:HG13	1:A:3929:SER:OG	1.93	0.69
1:C:554:LEU:CG	1:C:593:HIS:CE1	2.76	0.69
1:C:1291:LEU:HD23	1:C:1293:LEU:H	1.56	0.69
1:C:1848:LEU:HD23	1:C:1854:PHE:HZ	1.56	0.69
1:C:2277:ALA:HB1	1:C:2337:PHE:HD2	1.57	0.69
1:E:111:HIS:HD2	1:E:114:SER:H	1.37	0.69
1:E:1782:PHE:CD2	2:F:37:ASP:OD2	2.46	0.69
1:E:1808:ARG:HB3	1:E:1854:PHE:HE1	1.56	0.69
1:E:1961:PHE:CE2	1:E:2063:LEU:HD22	2.27	0.69
1:E:3839:CYS:O	1:E:3840:SER:OG	2.06	0.69
1:E:3990:VAL:HG13	1:E:4051:SER:HB2	1.75	0.69
1:E:4828:SER:HA	1:E:4831:THR:HG22	1.73	0.69
1:G:111:HIS:HD2	1:G:114:SER:H	1.37	0.69
1:G:1286:MET:H	1:G:1555:LEU:CD1	2.06	0.69
1:G:1848:LEU:HD23	1:G:1854:PHE:HZ	1.56	0.69
1:C:4703:ARG:O	1:C:4706:LEU:HG	1.92	0.69
1:E:2159:LEU:HD11	1:E:2201:LEU:HD13	1.74	0.69
1:G:554:LEU:CG	1:G:593:HIS:CE1	2.76	0.69
1:A:554:LEU:CG	1:A:593:HIS:CE1	2.76	0.69
1:A:864:PRO:HD2	1:A:867:LEU:HD12	1.75	0.69
1:A:1848:LEU:HD23	1:A:1854:PHE:HZ	1.56	0.69
1:C:823:LEU:HD11	1:C:1621:GLY:HA3	1.73	0.69
1:C:864:PRO:HD2	1:C:867:LEU:HD12	1.75	0.69
1:C:4828:SER:HA	1:C:4831:THR:HG22	1.73	0.69
2:D:23:VAL:HG22	2:D:47:LYS:HG2	1.74	0.69
1:A:707:VAL:HA	1:A:725:HIS:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1782:PHE:CD2	2:B:37:ASP:OD2	2.46	0.68
1:A:1452:TRP:CG	1:A:1527:MET:CE	2.74	0.68
1:C:721:LEU:HD13	1:C:768:PHE:CZ	2.29	0.68
1:C:3990:VAL:HG13	1:C:4051:SER:HB2	1.75	0.68
1:E:1856:ASP:O	1:E:1860:LYS:N	2.25	0.68
1:G:680:THR:CG2	1:G:785:ALA:HB3	2.24	0.68
1:G:2133:GLU:HG3	1:G:2136:ARG:HE	1.58	0.68
1:G:2349:ASN:OD1	1:G:3849:ARG:NH1	2.26	0.68
1:G:3841:VAL:HG13	1:G:3929:SER:OG	1.93	0.68
1:A:1516:ILE:CB	1:A:1530:THR:HG1	2.04	0.68
1:A:2133:GLU:HG3	1:A:2136:ARG:HE	1.58	0.68
1:E:721:LEU:HD13	1:E:768:PHE:CZ	2.29	0.68
1:E:1516:ILE:CB	1:E:1530:THR:HG1	2.04	0.68
1:E:3897:ASN:OD1	1:E:3901:ASN:ND2	2.26	0.68
1:E:3970:GLN:NE2	1:E:4029:SER:HB2	2.07	0.68
1:E:4703:ARG:O	1:E:4706:LEU:HG	1.92	0.68
1:A:1705:GLY:C	1:A:1836:PHE:CD2	2.66	0.68
1:C:1705:GLY:C	1:C:1836:PHE:CD2	2.66	0.68
1:C:3841:VAL:HG13	1:C:3929:SER:OG	1.93	0.68
1:C:4692:PRO:CD	1:C:4703:ARG:HH21	1.92	0.68
1:E:1275:ARG:NH2	1:E:1599:MET:O	2.27	0.68
1:E:1716:ILE:HD11	1:E:1844:LEU:HA	1.76	0.68
1:E:4680:LYS:CA	1:E:4684:ASP:HB2	2.23	0.68
1:G:592:LYS:CE	1:G:1596:GLU:OE1	2.40	0.68
1:G:3841:VAL:HG12	1:G:3843:ASP:H	1.59	0.68
1:A:681:HIS:CA	1:A:716:PHE:CD1	2.73	0.68
2:B:23:VAL:HG22	2:B:47:LYS:HG2	1.74	0.68
1:C:3897:ASN:OD1	1:C:3901:ASN:ND2	2.26	0.68
1:E:680:THR:CG2	1:E:785:ALA:HB3	2.24	0.68
1:G:554:LEU:HA	1:G:557:SER:HB3	1.76	0.68
1:G:721:LEU:CD2	1:G:767:VAL:HG13	2.23	0.68
1:A:1716:ILE:HD11	1:A:1844:LEU:HA	1.76	0.68
1:A:2284:ASN:HA	1:A:2341:VAL:HG21	1.76	0.68
1:C:1286:MET:H	1:C:1555:LEU:CD1	2.06	0.68
1:G:707:VAL:HA	1:G:725:HIS:HB2	1.74	0.68
1:G:721:LEU:HD13	1:G:768:PHE:CZ	2.29	0.68
1:G:990:GLU:HG3	1:G:1024:TYR:HB3	1.76	0.68
1:G:3990:VAL:HG13	1:G:4051:SER:HB2	1.75	0.68
1:G:4680:LYS:CA	1:G:4684:ASP:HB2	2.23	0.68
1:A:721:LEU:HD13	1:A:768:PHE:CZ	2.29	0.68
1:A:1291:LEU:HD23	1:A:1293:LEU:H	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:681:HIS:CA	1:C:716:PHE:CD1	2.73	0.68
1:C:990:GLU:HG3	1:C:1024:TYR:HB3	1.76	0.68
1:C:1705:GLY:CA	1:C:1836:PHE:CD2	2.77	0.68
1:E:721:LEU:HD23	1:E:767:VAL:HG13	1.76	0.68
1:E:1705:GLY:CA	1:E:1836:PHE:CD2	2.77	0.68
1:G:1275:ARG:NH2	1:G:1599:MET:O	2.27	0.68
1:C:721:LEU:HD23	1:C:767:VAL:HG13	1.76	0.68
1:E:554:LEU:CD1	1:E:593:HIS:NE2	2.42	0.68
1:E:864:PRO:HD2	1:E:867:LEU:HD12	1.75	0.68
1:E:2124:LEU:HD21	1:E:3677:LEU:HD21	1.76	0.68
1:G:1705:GLY:C	1:G:1836:PHE:CD2	2.66	0.68
1:C:607:CYS:O	1:C:618:GLN:NE2	2.25	0.68
1:C:2159:LEU:HD11	1:C:2201:LEU:HD13	1.74	0.68
1:E:515:TRP:HZ3	1:E:555:GLU:CG	2.07	0.68
1:A:592:LYS:CE	1:A:1596:GLU:OE1	2.40	0.68
1:A:680:THR:CG2	1:A:785:ALA:HB3	2.24	0.68
1:A:4680:LYS:CA	1:A:4684:ASP:HB2	2.23	0.68
1:C:2133:GLU:HG3	1:C:2136:ARG:HE	1.58	0.68
1:E:3841:VAL:HG13	1:E:3929:SER:OG	1.93	0.68
1:A:3669:PHE:HE1	1:A:3670:GLU:CD	1.97	0.67
1:A:3897:ASN:OD1	1:A:3901:ASN:ND2	2.26	0.67
1:A:4994:TYR:HE2	1:A:5007:GLU:CD	1.98	0.67
1:C:4994:TYR:HE2	1:C:5007:GLU:CD	1.98	0.67
1:E:2349:ASN:OD1	1:E:3849:ARG:NH1	2.26	0.67
1:G:4035:VAL:HG12	1:G:4036:VAL:H	1.57	0.67
1:A:2128:TYR:O	1:A:3669:PHE:HD2	1.77	0.67
1:C:1527:MET:H	1:C:1541:GLN:CB	2.08	0.67
1:C:1716:ILE:HD11	1:C:1844:LEU:HA	1.76	0.67
1:E:4178:LEU:C	1:E:4178:LEU:HD12	2.15	0.67
1:G:1716:ILE:HD11	1:G:1844:LEU:HA	1.76	0.67
1:G:2066:LEU:O	1:G:2069:THR:OG1	2.13	0.67
1:G:2124:LEU:HD21	1:G:3677:LEU:HD21	1.76	0.67
1:G:3669:PHE:HD1	1:G:3670:GLU:N	1.85	0.67
1:G:3669:PHE:HE1	1:G:3670:GLU:CD	1.97	0.67
1:G:4901:ILE:CD1	1:G:4913:ARG:NE	2.58	0.67
1:G:4994:TYR:HE2	1:G:5007:GLU:CD	1.98	0.67
1:A:3984:ARG:CZ	1:G:161:GLU:HG3	2.24	0.67
1:C:680:THR:CG2	1:C:785:ALA:HB3	2.24	0.67
1:C:4178:LEU:C	1:C:4178:LEU:HD12	2.15	0.67
1:C:4901:ILE:CD1	1:C:4913:ARG:NE	2.58	0.67
1:E:161:GLU:HG3	1:G:3984:ARG:CZ	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:721:LEU:CD2	1:E:767:VAL:HG13	2.23	0.67
1:E:1286:MET:H	1:E:1555:LEU:CD1	2.06	0.67
1:E:4901:ILE:CD1	1:E:4913:ARG:NE	2.58	0.67
1:G:284:HIS:HE2	1:G:286:THR:HG1	1.35	0.67
1:G:736:HIS:HE1	1:G:739:ALA:HB2	1.56	0.67
1:G:864:PRO:HD2	1:G:867:LEU:HD12	1.75	0.67
1:G:1527:MET:H	1:G:1541:GLN:CB	2.08	0.67
1:G:1705:GLY:CA	1:G:1836:PHE:CD2	2.77	0.67
1:A:1527:MET:H	1:A:1541:GLN:CB	2.08	0.67
1:C:1961:PHE:CE2	1:C:2063:LEU:HD22	2.27	0.67
1:C:4680:LYS:CA	1:C:4684:ASP:HB2	2.23	0.67
1:E:554:LEU:CG	1:E:593:HIS:CE1	2.76	0.67
1:E:2284:ASN:HA	1:E:2341:VAL:HG21	1.76	0.67
1:G:2284:ASN:HA	1:G:2341:VAL:HG21	1.76	0.67
2:H:26:TYR:CA	2:H:39:SER:OG	2.43	0.67
1:A:4178:LEU:C	1:A:4178:LEU:HD12	2.15	0.67
1:C:161:GLU:HG3	1:E:3984:ARG:CZ	2.24	0.67
1:C:167:ASP:OD1	1:E:384:MET:HE1	1.92	0.67
1:E:990:GLU:HG3	1:E:1024:TYR:HB3	1.76	0.67
1:E:1527:MET:H	1:E:1541:GLN:CB	2.08	0.67
1:G:1214:PHE:O	1:G:1218:GLY:N	2.27	0.67
1:C:1705:GLY:HA3	1:C:1836:PHE:CD2	2.30	0.67
1:C:3669:PHE:HE1	1:C:3670:GLU:CD	1.97	0.67
1:E:3841:VAL:HG12	1:E:3843:ASP:H	1.59	0.67
1:E:4994:TYR:HE2	1:E:5007:GLU:CD	1.98	0.67
1:G:2128:TYR:O	1:G:3669:PHE:HD2	1.77	0.67
1:G:3897:ASN:OD1	1:G:3901:ASN:ND2	2.26	0.67
1:G:4904:PRO:HB2	1:G:4910:GLU:HG3	1.71	0.67
1:A:161:GLU:HG3	1:C:3984:ARG:CZ	2.24	0.67
1:A:1856:ASP:O	1:A:1860:LYS:N	2.25	0.67
1:C:1830:VAL:HB	1:C:1837:GLN:CG	2.25	0.67
1:C:1853:ILE:HG22	1:C:1854:PHE:CE1	2.30	0.67
1:E:3669:PHE:HE1	1:E:3670:GLU:CD	1.97	0.67
1:G:580:GLU:HG2	1:G:620:LEU:HD11	1.77	0.67
1:A:645:ARG:NH1	1:A:824:GLU:OE2	2.28	0.67
1:A:990:GLU:HG3	1:A:1024:TYR:HB3	1.76	0.67
1:A:1853:ILE:HG22	1:A:1854:PHE:CE1	2.30	0.67
1:A:4901:ILE:CD1	1:A:4913:ARG:NE	2.58	0.67
1:E:554:LEU:HA	1:E:557:SER:HB3	1.76	0.67
1:E:1848:LEU:HD23	1:E:1854:PHE:HZ	1.56	0.67
1:G:805:PRO:CD	1:G:806:PRO:N	2.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1856:ASP:O	1:G:1860:LYS:N	2.25	0.67
1:A:45:ARG:NH2	1:A:116:MET:HE2	2.09	0.67
1:A:3990:VAL:HG13	1:A:4051:SER:HB2	1.75	0.67
1:A:4904:PRO:HB2	1:A:4910:GLU:HG3	1.71	0.67
1:C:3996:PHE:HZ	1:C:4019:LEU:HD22	1.60	0.67
1:G:1772:ARG:NH1	1:G:1952:GLN:HE22	1.93	0.67
1:A:1705:GLY:CA	1:A:1836:PHE:CD2	2.77	0.67
1:A:3841:VAL:HG12	1:A:3843:ASP:H	1.59	0.67
1:C:645:ARG:NH1	1:C:824:GLU:OE2	2.28	0.67
1:E:580:GLU:HG2	1:E:620:LEU:HD11	1.77	0.67
1:E:1705:GLY:HA3	1:E:1836:PHE:CD2	2.30	0.67
1:G:1838:PHE:HB3	1:G:1842:LEU:HD13	1.77	0.67
1:G:4685:GLY:O	1:G:4689:THR:N	2.21	0.67
1:A:1275:ARG:NH2	1:A:1599:MET:O	2.27	0.66
1:E:1853:ILE:HG22	1:E:1854:PHE:CE1	2.30	0.66
1:G:495:ASN:O	1:G:553:ARG:NH1	2.28	0.66
1:G:607:CYS:O	1:G:618:GLN:NE2	2.25	0.66
1:A:972:LEU:HB3	1:A:1044:ARG:HB3	1.78	0.66
1:A:2349:ASN:OD1	1:A:3849:ARG:NH1	2.26	0.66
2:B:38:SER:O	2:B:42:ARG:NH1	2.28	0.66
1:C:495:ASN:O	1:C:553:ARG:NH1	2.28	0.66
1:C:1856:ASP:O	1:C:1860:LYS:N	2.25	0.66
1:C:2124:LEU:HD21	1:C:3677:LEU:HD21	1.76	0.66
2:D:25:HIS:CD2	2:D:104:LEU:HD11	2.31	0.66
1:E:805:PRO:CD	1:E:806:PRO:N	2.58	0.66
1:E:1830:VAL:HB	1:E:1837:GLN:CG	2.25	0.66
2:F:26:TYR:CA	2:F:39:SER:OG	2.43	0.66
1:G:972:LEU:HB3	1:G:1044:ARG:HB3	1.78	0.66
1:G:4178:LEU:C	1:G:4178:LEU:HD12	2.15	0.66
1:A:721:LEU:HD23	1:A:767:VAL:HG13	1.76	0.66
1:A:2124:LEU:HD21	1:A:3677:LEU:HD21	1.76	0.66
1:C:2128:TYR:O	1:C:3669:PHE:HD2	1.77	0.66
1:C:2349:ASN:OD1	1:C:3849:ARG:NH1	2.26	0.66
1:C:3841:VAL:HG12	1:C:3843:ASP:H	1.59	0.66
1:E:645:ARG:NH1	1:E:824:GLU:OE2	2.28	0.66
1:E:1769:THR:OG1	1:E:1956:GLU:OE2	2.14	0.66
1:G:1671:ARG:NH1	1:G:1713:ASP:OD2	2.28	0.66
1:G:4235:VAL:HG11	1:G:5019:TRP:HH2	1.61	0.66
1:A:1671:ARG:NH1	1:A:1713:ASP:OD2	2.28	0.66
1:A:2496:PRO:HB2	1:A:2552:ARG:HD2	1.77	0.66
1:A:3996:PHE:HZ	1:A:4019:LEU:HD22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1671:ARG:NH1	1:C:1713:ASP:OD2	2.28	0.66
1:C:2284:ASN:HA	1:C:2341:VAL:HG21	1.76	0.66
1:E:2128:TYR:O	1:E:3669:PHE:HD2	1.77	0.66
1:G:645:ARG:NH1	1:G:824:GLU:OE2	2.28	0.66
1:A:1452:TRP:CD1	1:A:1527:MET:HE1	2.27	0.66
1:C:554:LEU:HA	1:C:557:SER:HB3	1.76	0.66
1:C:972:LEU:HB3	1:C:1044:ARG:HB3	1.78	0.66
1:E:2198:MET:HE1	1:E:2203:MET:CE	2.23	0.66
1:E:4901:ILE:CD1	1:E:4913:ARG:CZ	2.73	0.66
1:G:683:ARG:NH1	1:G:705:ASN:O	2.28	0.66
1:G:758:ARG:HH12	1:G:804:PRO:HB3	1.59	0.66
1:G:4006:ASP:OD1	1:G:4006:ASP:N	2.29	0.66
1:G:4187:SER:OG	1:G:4189:ARG:HG2	1.95	0.66
1:A:721:LEU:CD2	1:A:767:VAL:HG13	2.23	0.66
1:A:805:PRO:CD	1:A:806:PRO:N	2.58	0.66
1:A:1772:ARG:NH1	1:A:1952:GLN:HE22	1.93	0.66
1:A:4901:ILE:CD1	1:A:4913:ARG:CZ	2.73	0.66
1:E:683:ARG:CD	1:E:705:ASN:HB3	2.26	0.66
1:E:1547:LYS:NZ	1:E:1642:PRO:O	2.27	0.66
1:G:1769:THR:OG1	1:G:1956:GLU:OE2	2.14	0.66
2:H:38:SER:O	2:H:42:ARG:NH1	2.28	0.66
1:A:683:ARG:NH1	1:A:705:ASN:O	2.28	0.66
1:A:1705:GLY:HA3	1:A:1836:PHE:CD2	2.30	0.66
1:C:681:HIS:HA	1:C:716:PHE:CE1	2.31	0.66
1:E:597:HIS:CD2	1:E:1661:ARG:HD2	2.31	0.66
1:E:638:ILE:O	1:E:1636:MET:N	2.28	0.66
1:E:683:ARG:NH1	1:E:705:ASN:O	2.28	0.66
1:E:1671:ARG:NH1	1:E:1713:ASP:OD2	2.28	0.66
1:G:515:TRP:HZ3	1:G:555:GLU:CG	2.07	0.66
1:G:1830:VAL:HB	1:G:1837:GLN:CG	2.25	0.66
1:A:580:GLU:HG2	1:A:620:LEU:HD11	1.77	0.66
1:A:683:ARG:CZ	1:A:722:TRP:CD1	2.79	0.66
1:A:4179:GLY:O	1:A:4195:PHE:CG	2.49	0.66
1:C:293:LEU:HD13	1:C:378:LEU:HD12	1.78	0.66
1:C:4179:GLY:O	1:C:4195:PHE:CG	2.49	0.66
1:C:4979:THR:O	1:C:4984:ASN:N	2.28	0.66
2:D:26:TYR:CA	2:D:39:SER:OG	2.43	0.66
1:E:495:ASN:O	1:E:553:ARG:NH1	2.28	0.66
1:E:4195:PHE:HE2	1:E:4987:ASN:HB3	1.61	0.66
2:F:25:HIS:CD2	2:F:104:LEU:HD11	2.31	0.66
1:G:721:LEU:HD23	1:G:767:VAL:HG13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3984:ARG:NE	1:G:161:GLU:HG3	2.11	0.66
1:C:683:ARG:CZ	1:C:722:TRP:CD1	2.79	0.66
1:C:1275:ARG:NH2	1:C:1599:MET:O	2.27	0.66
1:C:4901:ILE:CD1	1:C:4913:ARG:CZ	2.73	0.66
1:E:1838:PHE:HB3	1:E:1842:LEU:HD13	1.77	0.66
1:E:4187:SER:OG	1:E:4189:ARG:HG2	1.95	0.66
1:G:600:LEU:CD2	1:G:1665:HIS:O	2.44	0.66
1:A:161:GLU:HG3	1:C:3984:ARG:NE	2.11	0.66
1:A:495:ASN:O	1:A:553:ARG:NH1	2.28	0.66
1:C:683:ARG:NH1	1:C:705:ASN:O	2.28	0.66
1:C:3927:GLN:NE2	1:C:3991:GLY:HA3	2.11	0.66
1:C:4006:ASP:OD1	1:C:4006:ASP:N	2.29	0.66
1:G:3927:GLN:NE2	1:G:3991:GLY:HA3	2.11	0.66
1:G:3996:PHE:HZ	1:G:4019:LEU:HD22	1.60	0.66
1:A:554:LEU:HA	1:A:557:SER:HB3	1.76	0.65
1:A:1838:PHE:HB3	1:A:1842:LEU:HD13	1.77	0.65
1:A:1961:PHE:CZ	1:A:2063:LEU:HA	2.31	0.65
1:A:4914:VAL:HG11	1:C:4884:LEU:HD11	1.79	0.65
1:C:683:ARG:CD	1:C:705:ASN:HB3	2.26	0.65
1:C:4187:SER:OG	1:C:4189:ARG:HG2	1.95	0.65
1:E:972:LEU:HB3	1:E:1044:ARG:HB3	1.78	0.65
1:E:4235:VAL:HG11	1:E:5019:TRP:HH2	1.61	0.65
1:G:793:LEU:HD22	1:G:811:CYS:CB	2.26	0.65
1:G:4179:GLY:O	1:G:4195:PHE:CG	2.49	0.65
1:A:4235:VAL:HG11	1:A:5019:TRP:HH2	1.61	0.65
2:B:25:HIS:CD2	2:B:104:LEU:HD11	2.31	0.65
1:C:1214:PHE:O	1:C:1218:GLY:N	2.27	0.65
1:E:161:GLU:HG3	1:G:3984:ARG:NE	2.11	0.65
1:E:681:HIS:HA	1:E:716:PHE:CE1	2.31	0.65
1:E:683:ARG:CZ	1:E:722:TRP:CD1	2.79	0.65
1:A:125:ARG:HD3	1:A:134:ASP:CG	2.17	0.65
1:A:4195:PHE:HE2	1:A:4987:ASN:HB3	1.61	0.65
1:C:597:HIS:CD2	1:C:1661:ARG:HD2	2.31	0.65
1:C:1961:PHE:CZ	1:C:2063:LEU:HA	2.31	0.65
1:C:4235:VAL:HG11	1:C:5019:TRP:HH2	1.61	0.65
2:D:38:SER:O	2:D:42:ARG:NH1	2.28	0.65
1:E:293:LEU:HD13	1:E:378:LEU:HD12	1.78	0.65
1:E:793:LEU:HD22	1:E:811:CYS:CB	2.26	0.65
1:E:1214:PHE:O	1:E:1218:GLY:N	2.27	0.65
2:F:38:SER:O	2:F:42:ARG:NH1	2.28	0.65
1:G:1547:LYS:NZ	1:G:1642:PRO:O	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4195:PHE:HE2	1:G:4987:ASN:HB3	1.61	0.65
1:A:515:TRP:HZ3	1:A:555:GLU:CG	2.07	0.65
1:A:793:LEU:HD22	1:A:811:CYS:CB	2.26	0.65
1:A:943:ASP:HB2	1:A:1050:GLY:HA3	1.79	0.65
1:A:1763:PRO:CD	1:A:1863:LEU:CD1	2.57	0.65
1:A:1830:VAL:HB	1:A:1837:GLN:CG	2.25	0.65
1:A:2066:LEU:O	1:A:2069:THR:OG1	2.13	0.65
1:A:4006:ASP:OD1	1:A:4006:ASP:N	2.29	0.65
1:A:4658:ILE:HG22	1:A:4792:LEU:HB3	1.79	0.65
1:C:161:GLU:HG3	1:E:3984:ARG:NE	2.11	0.65
1:C:4195:PHE:HE2	1:C:4987:ASN:HB3	1.61	0.65
1:E:600:LEU:CD2	1:E:1665:HIS:O	2.44	0.65
1:E:2496:PRO:HB2	1:E:2552:ARG:HD2	1.77	0.65
1:E:3996:PHE:HZ	1:E:4019:LEU:HD22	1.60	0.65
1:E:4006:ASP:OD1	1:E:4006:ASP:N	2.29	0.65
1:E:4179:GLY:O	1:E:4195:PHE:CG	2.49	0.65
1:G:597:HIS:CD2	1:G:1661:ARG:HD2	2.31	0.65
1:G:1705:GLY:HA3	1:G:1836:PHE:CD2	2.30	0.65
1:G:1961:PHE:CZ	1:G:2063:LEU:HA	2.31	0.65
2:H:25:HIS:CD2	2:H:104:LEU:HD11	2.31	0.65
1:A:600:LEU:CD2	1:A:1665:HIS:O	2.44	0.65
1:A:1769:THR:OG1	1:A:1956:GLU:OE2	2.14	0.65
1:A:4187:SER:OG	1:A:4189:ARG:HG2	1.95	0.65
1:C:284:HIS:HE2	1:C:286:THR:HG1	1.40	0.65
1:C:1769:THR:OG1	1:C:1956:GLU:OE2	2.14	0.65
1:C:1838:PHE:HB3	1:C:1842:LEU:HD13	1.77	0.65
1:E:4680:LYS:O	1:E:4685:GLY:N	2.30	0.65
1:G:125:ARG:HD3	1:G:134:ASP:CG	2.17	0.65
1:A:683:ARG:CD	1:A:705:ASN:HB3	2.26	0.65
1:A:758:ARG:HH12	1:A:804:PRO:HB3	1.59	0.65
1:A:4680:LYS:O	1:A:4685:GLY:N	2.30	0.65
1:C:125:ARG:HD3	1:C:134:ASP:CG	2.17	0.65
1:C:580:GLU:HG2	1:C:620:LEU:HD11	1.77	0.65
1:C:721:LEU:CD2	1:C:767:VAL:HG13	2.23	0.65
1:C:943:ASP:HB2	1:C:1050:GLY:HA3	1.79	0.65
1:C:1478:ASP:O	1:C:1479:GLU:OE1	2.15	0.65
1:C:4658:ILE:HG22	1:C:4792:LEU:HB3	1.79	0.65
1:E:1961:PHE:CZ	1:E:2063:LEU:HA	2.31	0.65
1:C:515:TRP:HZ3	1:C:555:GLU:CG	2.07	0.65
1:C:793:LEU:HD22	1:C:811:CYS:CB	2.26	0.65
1:C:3669:PHE:CE1	1:C:3670:GLU:CD	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4180:ARG:HB3	1:C:4194:TYR:CD1	2.32	0.65
1:C:4914:VAL:HG11	1:E:4884:LEU:HD11	1.79	0.65
1:E:736:HIS:CE1	1:E:739:ALA:CB	2.78	0.65
1:G:683:ARG:CD	1:G:705:ASN:HB3	2.26	0.65
1:A:3927:GLN:NE2	1:A:3991:GLY:HA3	2.11	0.65
1:A:4180:ARG:HB3	1:A:4194:TYR:CD1	2.32	0.65
2:B:26:TYR:CA	2:B:39:SER:OG	2.43	0.65
1:C:805:PRO:CD	1:C:806:PRO:N	2.58	0.65
1:C:4991:PHE:HE2	1:C:5010:VAL:HG11	1.62	0.65
1:A:1214:PHE:O	1:A:1218:GLY:N	2.27	0.65
1:A:3669:PHE:CE1	1:A:3670:GLU:CD	2.70	0.65
1:C:102:LEU:HB2	1:C:105:HIS:CE1	2.31	0.65
1:C:736:HIS:CE1	1:C:739:ALA:CB	2.78	0.65
1:C:4685:GLY:O	1:C:4689:THR:N	2.21	0.65
1:E:4991:PHE:HE2	1:E:5010:VAL:HG11	1.62	0.65
1:A:830:ARG:HD3	1:A:1612:PHE:CZ	2.32	0.65
1:A:1667:LEU:HG	1:A:1714:LEU:HD11	1.79	0.65
1:C:1667:LEU:HG	1:C:1714:LEU:HD11	1.79	0.65
1:C:2256:TYR:CD1	1:C:2260:ASN:ND2	2.63	0.65
1:E:102:LEU:HB2	1:E:105:HIS:CE1	2.31	0.65
1:E:1808:ARG:NH1	1:E:1858:ASP:OD2	2.30	0.65
1:G:839:LEU:HB3	1:G:1075:PHE:HE2	1.62	0.65
1:G:1598:GLN:O	1:G:1600:LEU:HG	1.97	0.65
1:G:2496:PRO:HB2	1:G:2552:ARG:HD2	1.77	0.65
1:A:638:ILE:O	1:A:1636:MET:N	2.28	0.64
1:A:668:VAL:HA	1:A:789:VAL:HG12	1.79	0.64
1:A:1808:ARG:NH1	1:A:1858:ASP:OD2	2.30	0.64
1:C:758:ARG:HH12	1:C:804:PRO:HB3	1.59	0.64
1:C:3775:ALA:HA	1:C:3778:MET:HG2	1.79	0.64
1:C:4182:GLU:OE2	1:C:5028:PHE:CB	2.45	0.64
1:E:561:LEU:HD11	1:E:599:VAL:HG22	1.79	0.64
1:G:1478:ASP:O	1:G:1479:GLU:OE1	2.15	0.64
1:G:4680:LYS:O	1:G:4685:GLY:N	2.30	0.64
1:G:4904:PRO:O	1:G:4910:GLU:HG3	1.97	0.64
1:C:600:LEU:CD2	1:C:1665:HIS:O	2.44	0.64
1:C:1091:GLU:HG2	1:C:1213:PHE:CD1	2.32	0.64
1:C:2496:PRO:HB2	1:C:2552:ARG:HD2	1.77	0.64
1:E:12:GLN:HB3	1:E:13:PHE:CD1	2.32	0.64
1:E:943:ASP:HB2	1:E:1050:GLY:HA3	1.79	0.64
1:E:3927:GLN:NE2	1:E:3991:GLY:HA3	2.11	0.64
1:E:4182:GLU:OE2	1:E:5028:PHE:CB	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:102:LEU:HB2	1:G:105:HIS:CE1	2.31	0.64
1:G:1727:ARG:NH1	1:G:1851:MET:O	2.31	0.64
1:A:1762:LEU:CD1	1:A:1764:GLY:H	2.11	0.64
1:A:3841:VAL:CG1	1:A:3842:LEU:N	2.61	0.64
1:A:4884:LEU:HD11	1:G:4914:VAL:HG11	1.79	0.64
1:C:1452:TRP:CG	1:C:1527:MET:CE	2.74	0.64
1:C:4680:LYS:O	1:C:4685:GLY:N	2.30	0.64
1:E:49:LEU:HD11	1:E:189:LEU:CA	2.27	0.64
1:E:721:LEU:HD22	1:E:767:VAL:HG12	1.79	0.64
1:E:758:ARG:HH12	1:E:804:PRO:HB3	1.59	0.64
1:E:4914:VAL:HG11	1:G:4884:LEU:HD11	1.79	0.64
1:G:49:LEU:HD11	1:G:189:LEU:CA	2.27	0.64
1:G:683:ARG:CZ	1:G:722:TRP:CD1	2.79	0.64
1:A:4904:PRO:O	1:A:4910:GLU:HG3	1.97	0.64
1:A:4991:PHE:HE2	1:A:5010:VAL:HG11	1.62	0.64
1:C:12:GLN:HB3	1:C:13:PHE:CD1	2.32	0.64
1:E:1091:GLU:HG2	1:E:1213:PHE:CD1	2.32	0.64
1:E:2066:LEU:O	1:E:2069:THR:OG1	2.13	0.64
1:E:3669:PHE:CE1	1:E:3670:GLU:CD	2.70	0.64
1:G:293:LEU:HD13	1:G:378:LEU:HD12	1.78	0.64
1:G:943:ASP:HB2	1:G:1050:GLY:HA3	1.79	0.64
1:G:3669:PHE:CE1	1:G:3670:GLU:CD	2.70	0.64
2:H:55:VAL:HG21	2:H:59:TRP:HD1	1.63	0.64
1:A:102:LEU:HB2	1:A:105:HIS:CE1	2.31	0.64
1:A:293:LEU:HD13	1:A:378:LEU:HD12	1.78	0.64
1:C:49:LEU:HD11	1:C:189:LEU:CA	2.27	0.64
1:E:125:ARG:HD3	1:E:134:ASP:CG	2.17	0.64
1:E:680:THR:HG23	1:E:785:ALA:HB3	1.80	0.64
1:E:1772:ARG:NH1	1:E:1952:GLN:HE22	1.93	0.64
1:G:1762:LEU:CD1	1:G:1764:GLY:H	2.11	0.64
1:G:4182:GLU:OE2	1:G:5028:PHE:CB	2.45	0.64
1:G:4658:ILE:HG22	1:G:4792:LEU:HB3	1.79	0.64
1:A:561:LEU:HD11	1:A:599:VAL:HG22	1.79	0.64
1:A:701:GLY:O	1:A:725:HIS:NE2	2.31	0.64
1:A:1091:GLU:HG2	1:A:1213:PHE:CD1	2.32	0.64
1:A:4904:PRO:C	1:A:4910:GLU:HG3	2.18	0.64
1:C:668:VAL:HA	1:C:789:VAL:HG12	1.79	0.64
1:E:689:THR:HA	1:E:778:PHE:HE2	1.63	0.64
1:E:3994:HIS:N	1:E:4054:ASN:HD21	1.96	0.64
1:E:4180:ARG:HB3	1:E:4194:TYR:CD1	2.32	0.64
1:G:1853:ILE:HG22	1:G:1854:PHE:CE1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4904:PRO:C	1:G:4910:GLU:HG3	2.18	0.64
1:A:606:LEU:O	1:A:617:ASN:ND2	2.31	0.64
1:A:1727:ARG:NH1	1:A:1851:MET:O	2.31	0.64
1:C:689:THR:HA	1:C:778:PHE:HE2	1.63	0.64
1:C:1808:ARG:NH1	1:C:1858:ASP:OD2	2.30	0.64
1:C:4818:MET:HA	1:C:4824:ARG:HG2	1.79	0.64
1:E:1638:ALA:HA	1:E:1649:ASP:HA	1.80	0.64
1:E:4818:MET:HA	1:E:4824:ARG:HG2	1.79	0.64
1:G:561:LEU:HD11	1:G:599:VAL:HG22	1.79	0.64
1:G:681:HIS:CA	1:G:716:PHE:CD1	2.73	0.64
1:G:3994:HIS:N	1:G:4054:ASN:HD21	1.96	0.64
1:A:681:HIS:HA	1:A:716:PHE:CE1	2.31	0.64
1:A:689:THR:HA	1:A:778:PHE:HE2	1.63	0.64
1:A:1805:GLU:HG2	1:A:1808:ARG:HE	1.63	0.64
1:C:561:LEU:HD11	1:C:599:VAL:HG22	1.79	0.64
1:C:606:LEU:O	1:C:617:ASN:ND2	2.31	0.64
1:C:701:GLY:O	1:C:725:HIS:NE2	2.31	0.64
1:C:4904:PRO:C	1:C:4910:GLU:HG3	2.18	0.64
1:E:701:GLY:O	1:E:725:HIS:NE2	2.31	0.64
1:E:1667:LEU:HG	1:E:1714:LEU:HD11	1.79	0.64
1:E:3669:PHE:HE1	1:E:3670:GLU:OE1	1.81	0.64
1:G:830:ARG:HD3	1:G:1612:PHE:CZ	2.32	0.64
1:G:1763:PRO:CD	1:G:1863:LEU:CD1	2.57	0.64
1:G:4180:ARG:HB3	1:G:4194:TYR:CD1	2.32	0.64
1:G:4818:MET:HA	1:G:4824:ARG:HG2	1.79	0.64
1:A:839:LEU:HB3	1:A:1075:PHE:HE2	1.62	0.64
1:A:1478:ASP:O	1:A:1479:GLU:OE1	2.15	0.64
1:A:1598:GLN:O	1:A:1600:LEU:HG	1.97	0.64
2:B:55:VAL:HG21	2:B:59:TRP:HD1	1.63	0.64
1:C:680:THR:HG23	1:C:785:ALA:HB3	1.80	0.64
1:E:839:LEU:HB3	1:E:1075:PHE:HE2	1.62	0.64
1:E:4658:ILE:HG22	1:E:4792:LEU:HB3	1.79	0.64
1:G:689:THR:HA	1:G:778:PHE:HE2	1.63	0.64
1:G:1808:ARG:NH1	1:G:1858:ASP:OD2	2.30	0.64
1:G:4991:PHE:HE2	1:G:5010:VAL:HG11	1.62	0.64
1:A:597:HIS:CD2	1:A:1661:ARG:HD2	2.31	0.64
1:A:1547:LYS:NZ	1:A:1642:PRO:O	2.27	0.64
1:C:638:ILE:O	1:C:1636:MET:N	2.28	0.64
1:C:721:LEU:HD22	1:C:767:VAL:HG12	1.79	0.64
1:C:1132:TRP:NE1	1:C:1136:SER:N	2.46	0.64
1:C:1762:LEU:CD1	1:C:1764:GLY:H	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:252:VAL:HG23	1:G:257:ARG:HE	1.63	0.64
1:G:681:HIS:HA	1:G:716:PHE:CE1	2.31	0.64
1:G:1091:GLU:HG2	1:G:1213:PHE:CD1	2.32	0.64
1:G:4181:ILE:HD13	1:G:4991:PHE:CB	2.28	0.64
1:A:4182:GLU:OE2	1:A:5028:PHE:CB	2.45	0.63
1:C:683:ARG:NH2	1:C:722:TRP:NE1	2.46	0.63
1:C:1727:ARG:NH1	1:C:1851:MET:O	2.31	0.63
1:C:3841:VAL:CG1	1:C:3842:LEU:N	2.61	0.63
1:E:1727:ARG:NH1	1:E:1851:MET:O	2.31	0.63
1:E:4904:PRO:C	1:E:4910:GLU:HG3	2.18	0.63
1:E:5026:ASP:O	1:E:5030:LYS:HB3	1.98	0.63
2:F:55:VAL:HG21	2:F:59:TRP:HD1	1.63	0.63
1:G:595:ARG:HH22	1:G:1641:ILE:CD1	2.11	0.63
1:G:701:GLY:O	1:G:725:HIS:NE2	2.31	0.63
1:G:1638:ALA:HA	1:G:1649:ASP:HA	1.80	0.63
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.80	0.63
1:A:595:ARG:HH22	1:A:1641:ILE:CD1	2.11	0.63
1:C:252:VAL:HG23	1:C:257:ARG:HE	1.63	0.63
1:C:1452:TRP:CD1	1:C:1527:MET:HE1	2.29	0.63
1:C:4904:PRO:HB2	1:C:4910:GLU:HG3	1.71	0.63
1:E:1762:LEU:CD1	1:E:1764:GLY:H	2.11	0.63
1:E:4931:ILE:HG23	1:G:4940:PHE:HZ	1.63	0.63
1:E:4979:THR:O	1:E:4984:ASN:N	2.28	0.63
1:G:12:GLN:HB3	1:G:13:PHE:CD1	2.32	0.63
1:G:665:GLU:HB2	1:G:792:LEU:HB2	1.80	0.63
1:G:668:VAL:HA	1:G:789:VAL:HG12	1.79	0.63
1:G:680:THR:HG23	1:G:785:ALA:HB3	1.80	0.63
1:G:3955:MET:SD	1:G:4019:LEU:HD13	2.38	0.63
1:A:4940:PHE:HZ	1:G:4931:ILE:HG23	1.63	0.63
1:C:1131:ARG:HD2	1:C:1139:PHE:CD1	2.34	0.63
1:C:1547:LYS:NZ	1:C:1642:PRO:O	2.27	0.63
1:E:1478:ASP:O	1:E:1479:GLU:OE1	2.15	0.63
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.80	0.63
1:E:3841:VAL:CG1	1:E:3842:LEU:N	2.61	0.63
1:E:3955:MET:SD	1:E:4019:LEU:HD13	2.38	0.63
1:E:4181:ILE:HD13	1:E:4991:PHE:CB	2.28	0.63
1:E:4904:PRO:HB2	1:E:4910:GLU:HG3	1.71	0.63
1:G:683:ARG:NH2	1:G:722:TRP:NE1	2.46	0.63
1:G:3841:VAL:CG1	1:G:3842:LEU:N	2.61	0.63
1:A:49:LEU:HD11	1:A:189:LEU:CA	2.27	0.63
1:A:57:ASN:HD22	1:A:308:HIS:HB2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:705:ASN:OD1	1:A:706:GLY:N	2.32	0.63
1:A:1132:TRP:NE1	1:A:1136:SER:N	2.46	0.63
1:A:2748:PRO:HD2	1:A:2751:LEU:HD12	1.81	0.63
1:A:4180:ARG:NH1	1:A:4180:ARG:HG2	2.14	0.63
1:C:46:LEU:HD13	1:C:125:ARG:NE	2.14	0.63
1:C:1638:ALA:HA	1:C:1649:ASP:HA	1.80	0.63
1:C:2283:ASN:HB2	1:C:2286:LEU:HB2	1.81	0.63
1:C:2748:PRO:HD2	1:C:2751:LEU:HD12	1.81	0.63
1:E:252:VAL:HG23	1:E:257:ARG:HE	1.63	0.63
1:E:1598:GLN:O	1:E:1600:LEU:HG	1.97	0.63
1:E:1805:GLU:HG2	1:E:1808:ARG:HE	1.63	0.63
1:E:3775:ALA:HA	1:E:3778:MET:HG2	1.79	0.63
1:G:3775:ALA:HA	1:G:3778:MET:HG2	1.79	0.63
1:A:851:PHE:O	1:A:852:VAL:C	2.37	0.63
1:A:1240:LYS:HZ1	1:A:1610:ASN:HD22	1.47	0.63
1:C:57:ASN:HD22	1:C:308:HIS:HB2	1.63	0.63
1:C:600:LEU:HD21	1:C:1666:THR:CA	2.26	0.63
1:C:705:ASN:OD1	1:C:706:GLY:N	2.32	0.63
1:C:839:LEU:HB3	1:C:1075:PHE:HE2	1.62	0.63
1:C:1772:ARG:NH1	1:C:1952:GLN:HE22	1.93	0.63
1:C:1805:GLU:HG2	1:C:1808:ARG:HE	1.63	0.63
1:E:830:ARG:HD3	1:E:1612:PHE:CZ	2.32	0.63
1:G:2198:MET:CE	1:G:2203:MET:HE1	2.23	0.63
1:A:12:GLN:HB3	1:A:13:PHE:CD1	2.32	0.63
1:A:161:GLU:CG	1:C:3984:ARG:HD3	2.29	0.63
1:A:1638:ALA:HA	1:A:1649:ASP:HA	1.80	0.63
1:A:3775:ALA:HA	1:A:3778:MET:HG2	1.79	0.63
1:A:4181:ILE:HD13	1:A:4991:PHE:CB	2.28	0.63
1:A:4907:ASP:O	1:A:4910:GLU:HB3	1.99	0.63
1:C:1132:TRP:CD1	1:C:1136:SER:CA	2.81	0.63
1:C:1448:VAL:CG2	1:C:1554:VAL:HG13	2.29	0.63
1:C:4904:PRO:O	1:C:4910:GLU:HG3	1.97	0.63
1:E:167:ASP:CG	1:G:384:MET:HE1	2.19	0.63
1:G:628:GLY:O	1:G:630:GLU:N	2.31	0.63
1:G:851:PHE:O	1:G:852:VAL:C	2.37	0.63
1:G:1667:LEU:HG	1:G:1714:LEU:HD11	1.79	0.63
1:G:4180:ARG:NH1	1:G:4180:ARG:HG2	2.14	0.63
2:H:27:THR:HG22	2:H:100:ASP:HB3	1.81	0.63
1:A:680:THR:HG23	1:A:785:ALA:HB3	1.80	0.63
1:A:3955:MET:SD	1:A:4019:LEU:HD13	2.38	0.63
1:A:4239:GLU:HA	1:A:4242:ILE:HD12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4818:MET:HA	1:A:4824:ARG:HG2	1.79	0.63
1:C:70:GLU:C	1:C:71:GLN:HG2	2.18	0.63
1:C:1124:PHE:HA	1:C:1131:ARG:HA	1.81	0.63
2:D:55:VAL:HG21	2:D:59:TRP:HD1	1.63	0.63
1:E:161:GLU:CG	1:G:3984:ARG:HD3	2.29	0.63
1:E:665:GLU:HB2	1:E:792:LEU:HB2	1.80	0.63
1:E:4904:PRO:O	1:E:4910:GLU:HG3	1.97	0.63
1:G:705:ASN:OD1	1:G:706:GLY:N	2.32	0.63
1:G:1448:VAL:CG2	1:G:1554:VAL:HG13	2.29	0.63
1:G:5026:ASP:O	1:G:5030:LYS:HB3	1.98	0.63
1:C:2822:THR:HG1	1:C:2938:THR:HG1	1.44	0.63
1:C:4181:ILE:HD13	1:C:4991:PHE:CB	2.28	0.63
1:C:4239:GLU:HA	1:C:4242:ILE:HD12	1.81	0.63
1:E:57:ASN:HD22	1:E:308:HIS:HB2	1.63	0.63
1:E:595:ARG:HH22	1:E:1641:ILE:CD1	2.11	0.63
1:E:683:ARG:NH2	1:E:722:TRP:NE1	2.46	0.63
1:E:3936:TYR:O	1:E:3940:LYS:NZ	2.26	0.63
1:E:4907:ASP:O	1:E:4910:GLU:HB3	1.99	0.63
1:G:606:LEU:O	1:G:617:ASN:ND2	2.31	0.63
1:G:2748:PRO:HD2	1:G:2751:LEU:HD12	1.81	0.63
1:A:665:GLU:HB2	1:A:792:LEU:HB2	1.80	0.63
1:A:1131:ARG:HD2	1:A:1139:PHE:CD1	2.34	0.63
1:A:2283:ASN:HB2	1:A:2286:LEU:HB2	1.81	0.63
1:A:5026:ASP:O	1:A:5030:LYS:HB3	1.98	0.63
1:C:49:LEU:HD23	1:C:191:VAL:CG2	2.29	0.63
1:C:1598:GLN:O	1:C:1600:LEU:HG	1.97	0.63
1:C:3994:HIS:N	1:C:4054:ASN:HD21	1.96	0.63
1:E:70:GLU:C	1:E:71:GLN:HG2	2.18	0.63
1:E:736:HIS:NE2	1:E:739:ALA:HB2	2.14	0.63
1:E:1132:TRP:NE1	1:E:1136:SER:N	2.46	0.63
1:E:1240:LYS:NZ	1:E:1610:ASN:HD22	1.97	0.63
1:G:736:HIS:NE2	1:G:739:ALA:HB2	2.14	0.63
1:G:1131:ARG:HD2	1:G:1139:PHE:CD1	2.34	0.63
1:G:1132:TRP:NE1	1:G:1136:SER:N	2.46	0.63
1:G:2095:GLN:NE2	1:G:2127:GLN:O	2.32	0.63
1:A:49:LEU:HD23	1:A:191:VAL:CG2	2.29	0.62
1:A:49:LEU:HD23	1:A:191:VAL:HG23	1.81	0.62
1:A:472:ARG:NH1	1:A:532:GLY:O	2.32	0.62
1:A:683:ARG:NH2	1:A:722:TRP:NE1	2.46	0.62
1:A:1124:PHE:HA	1:A:1131:ARG:HA	1.81	0.62
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4179:GLY:HA3	1:A:4195:PHE:CZ	2.34	0.62
1:C:552:ASP:OD1	1:C:592:LYS:NZ	2.32	0.62
1:C:1131:ARG:HH11	1:C:1131:ARG:CG	2.12	0.62
1:C:1240:LYS:NZ	1:C:1610:ASN:HD22	1.97	0.62
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.80	0.62
1:C:2095:GLN:NE2	1:C:2127:GLN:O	2.32	0.62
1:C:4179:GLY:HA3	1:C:4195:PHE:CZ	2.34	0.62
1:C:4931:ILE:HG23	1:E:4940:PHE:HZ	1.63	0.62
1:E:1131:ARG:HD2	1:E:1139:PHE:CD1	2.34	0.62
1:E:4239:GLU:HA	1:E:4242:ILE:HD12	1.81	0.62
1:G:57:ASN:HD22	1:G:308:HIS:HB2	1.63	0.62
1:G:479:GLN:NE2	1:G:536:ASN:OD1	2.32	0.62
1:A:252:VAL:HG23	1:A:257:ARG:HE	1.63	0.62
1:C:835:ARG:NH2	1:C:1093:GLU:OE2	2.32	0.62
1:C:3955:MET:SD	1:C:4019:LEU:HD13	2.38	0.62
1:E:668:VAL:HA	1:E:789:VAL:HG12	1.79	0.62
1:E:4922:PHE:HA	1:E:4926:VAL:HB	1.81	0.62
2:F:27:THR:HG22	2:F:100:ASP:HB3	1.81	0.62
1:G:49:LEU:HD23	1:G:191:VAL:CG2	2.29	0.62
1:G:3669:PHE:HE1	1:G:3670:GLU:OE1	1.81	0.62
1:A:607:CYS:O	1:A:618:GLN:NE2	2.25	0.62
1:A:3669:PHE:HE1	1:A:3670:GLU:OE1	1.81	0.62
1:A:3984:ARG:HD3	1:G:161:GLU:CG	2.29	0.62
1:A:3994:HIS:N	1:A:4054:ASN:HD21	1.96	0.62
1:C:595:ARG:HH22	1:C:1641:ILE:HG12	1.65	0.62
1:E:49:LEU:HD23	1:E:191:VAL:CG2	2.29	0.62
1:E:606:LEU:O	1:E:617:ASN:ND2	2.31	0.62
1:E:705:ASN:OD1	1:E:706:GLY:N	2.32	0.62
1:E:2756:ASN:OD1	1:E:2806:ARG:NH2	2.33	0.62
1:G:4239:GLU:HA	1:G:4242:ILE:HD12	1.81	0.62
1:G:4979:THR:O	1:G:4984:ASN:N	2.28	0.62
1:A:33:LEU:HD12	1:A:53:SER:HB2	1.82	0.62
1:A:1706:PRO:N	1:A:1836:PHE:CE2	2.67	0.62
1:A:4922:PHE:HA	1:A:4926:VAL:HB	1.81	0.62
1:C:595:ARG:HH22	1:C:1641:ILE:CD1	2.11	0.62
1:C:1762:LEU:HD13	1:C:1763:PRO:HD2	1.81	0.62
1:E:835:ARG:NH2	1:E:1093:GLU:OE2	2.32	0.62
1:E:1131:ARG:HH11	1:E:1131:ARG:CG	2.12	0.62
1:E:1448:VAL:CG2	1:E:1554:VAL:HG13	2.29	0.62
1:E:2283:ASN:HB2	1:E:2286:LEU:HB2	1.81	0.62
1:E:4179:GLY:HA3	1:E:4195:PHE:CZ	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:33:LEU:HD12	1:G:53:SER:HB2	1.82	0.62
1:G:49:LEU:HD23	1:G:191:VAL:HG23	1.81	0.62
1:G:681:HIS:HB2	1:G:716:PHE:CD1	2.35	0.62
1:G:1240:LYS:HZ1	1:G:1610:ASN:HD22	1.47	0.62
1:G:1805:GLU:HG2	1:G:1808:ARG:HE	1.63	0.62
1:G:2756:ASN:OD1	1:G:2806:ARG:NH2	2.33	0.62
1:G:4179:GLY:HA3	1:G:4195:PHE:CZ	2.34	0.62
1:A:681:HIS:HB2	1:A:716:PHE:CD1	2.35	0.62
1:A:3996:PHE:CZ	1:A:4019:LEU:HD22	2.35	0.62
1:A:4898:GLY:HA2	1:A:4901:ILE:HG22	1.82	0.62
1:C:5026:ASP:O	1:C:5030:LYS:HB3	1.98	0.62
2:D:27:THR:HG22	2:D:100:ASP:HB3	1.81	0.62
1:E:681:HIS:HB2	1:E:716:PHE:CD1	2.35	0.62
1:E:4180:ARG:NH1	1:E:4180:ARG:HG2	2.14	0.62
1:G:552:ASP:OD1	1:G:592:LYS:NZ	2.32	0.62
1:G:638:ILE:O	1:G:1636:MET:N	2.28	0.62
1:G:1132:TRP:CD1	1:G:1136:SER:CA	2.81	0.62
1:G:3996:PHE:CZ	1:G:4019:LEU:HD22	2.35	0.62
1:A:1448:VAL:CG2	1:A:1554:VAL:HG13	2.29	0.62
1:A:1762:LEU:HD13	1:A:1763:PRO:HD2	1.81	0.62
1:A:2756:ASN:OD1	1:A:2806:ARG:NH2	2.33	0.62
1:A:4220:ASP:O	1:A:4224:GLU:HG3	2.00	0.62
2:B:27:THR:HG22	2:B:100:ASP:HB3	1.81	0.62
1:C:851:PHE:O	1:C:852:VAL:C	2.37	0.62
1:C:4907:ASP:O	1:C:4910:GLU:HB3	1.99	0.62
1:E:49:LEU:CD2	1:E:191:VAL:CG2	2.78	0.62
1:E:1743:ARG:CD	1:E:1963:GLU:HG3	2.29	0.62
1:E:2854:GLY:O	1:E:2856:ASN:ND2	2.33	0.62
1:G:1706:PRO:N	1:G:1836:PHE:CE2	2.67	0.62
1:G:4907:ASP:O	1:G:4910:GLU:HB3	1.99	0.62
1:A:736:HIS:NE2	1:A:739:ALA:HB2	2.14	0.62
1:A:2299:VAL:HG21	1:A:2356:LEU:HB3	1.82	0.62
1:C:681:HIS:HB2	1:C:716:PHE:CD1	2.35	0.62
1:C:721:LEU:C	1:C:721:LEU:HD12	2.20	0.62
1:C:806:PRO:O	1:C:808:TYR:N	2.33	0.62
1:E:851:PHE:O	1:E:852:VAL:C	2.37	0.62
1:E:2907:PRO:O	1:E:2910:THR:OG1	2.14	0.62
1:G:273:HIS:CE1	1:G:334:MET:HE2	2.34	0.62
1:G:721:LEU:HD22	1:G:767:VAL:HG12	1.79	0.62
1:G:1240:LYS:NZ	1:G:1610:ASN:HD22	1.97	0.62
1:G:2854:GLY:O	1:G:2856:ASN:ND2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:479:GLN:NE2	1:A:536:ASN:OD1	2.32	0.62
1:A:1132:TRP:CD1	1:A:1136:SER:CA	2.81	0.62
1:A:2854:GLY:O	1:A:2856:ASN:ND2	2.33	0.62
1:A:4944:ARG:NE	1:G:4938:ASP:OD1	2.31	0.62
1:C:665:GLU:HB2	1:C:792:LEU:HB2	1.80	0.62
1:C:830:ARG:HD3	1:C:1612:PHE:CZ	2.32	0.62
1:C:3996:PHE:CZ	1:C:4019:LEU:HD22	2.35	0.62
1:E:479:GLN:NE2	1:E:536:ASN:OD1	2.32	0.62
1:E:1124:PHE:HA	1:E:1131:ARG:HA	1.81	0.62
1:E:4220:ASP:O	1:E:4224:GLU:HG3	2.00	0.62
1:G:595:ARG:HH22	1:G:1641:ILE:HG12	1.65	0.62
1:G:1616:GLU:HG3	1:G:1617:THR:HG23	1.82	0.62
1:G:2299:VAL:HG21	1:G:2356:LEU:HB3	1.82	0.62
1:G:4220:ASP:O	1:G:4224:GLU:HG3	2.00	0.62
1:A:4168:GLU:OE2	1:A:4175:ARG:NH2	2.32	0.62
1:C:1131:ARG:CD	1:C:1139:PHE:CD1	2.83	0.62
1:C:4181:ILE:HD13	1:C:4991:PHE:CD1	2.34	0.62
1:E:1132:TRP:CD1	1:E:1136:SER:CA	2.81	0.62
1:E:3996:PHE:CZ	1:E:4019:LEU:HD22	2.35	0.62
1:G:721:LEU:C	1:G:721:LEU:HD12	2.20	0.62
1:G:1743:ARG:CD	1:G:1963:GLU:HG3	2.29	0.62
1:A:716:PHE:HE2	1:A:717:ASP:HB3	1.61	0.62
1:A:806:PRO:O	1:A:808:TYR:N	2.33	0.62
1:C:161:GLU:CG	1:E:3984:ARG:HD3	2.29	0.62
1:C:1743:ARG:CD	1:C:1963:GLU:HG3	2.29	0.62
1:C:4922:PHE:HA	1:C:4926:VAL:HB	1.81	0.62
1:E:595:ARG:HH22	1:E:1641:ILE:HG12	1.65	0.62
1:E:600:LEU:HD21	1:E:1666:THR:CA	2.26	0.62
1:E:1452:TRP:CB	1:E:1527:MET:CE	2.75	0.62
1:E:2095:GLN:NE2	1:E:2127:GLN:O	2.32	0.62
1:G:2283:ASN:HB2	1:G:2286:LEU:HB2	1.81	0.62
1:A:1131:ARG:HH11	1:A:1131:ARG:CG	2.12	0.61
1:A:1616:GLU:HG3	1:A:1617:THR:HG23	1.82	0.61
1:A:2095:GLN:NE2	1:A:2127:GLN:O	2.32	0.61
1:C:479:GLN:NE2	1:C:536:ASN:OD1	2.32	0.61
1:C:683:ARG:NH1	1:C:722:TRP:CD1	2.68	0.61
1:C:1616:GLU:HG3	1:C:1617:THR:HG23	1.82	0.61
1:C:4687:TYR:HE2	1:C:4703:ARG:HA	1.65	0.61
1:A:520:ASN:ND2	1:A:556:ALA:HB1	2.15	0.61
1:A:721:LEU:C	1:A:721:LEU:HD12	2.20	0.61
1:A:1240:LYS:NZ	1:A:1610:ASN:HD22	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4687:TYR:HE2	1:A:4703:ARG:HA	1.65	0.61
1:A:4931:ILE:HG23	1:C:4940:PHE:HZ	1.63	0.61
1:C:520:ASN:ND2	1:C:556:ALA:HB1	2.15	0.61
1:C:3972:PRO:HA	1:C:4032:GLU:OE2	2.00	0.61
1:C:4220:ASP:O	1:C:4224:GLU:HG3	2.00	0.61
1:E:1828:ASP:HB3	1:E:1830:VAL:H	1.66	0.61
1:G:4901:ILE:CD1	1:G:4913:ARG:CZ	2.73	0.61
1:A:46:LEU:HD13	1:A:125:ARG:NE	2.14	0.61
1:A:49:LEU:CD2	1:A:191:VAL:CG2	2.78	0.61
1:A:4688:ILE:HD12	1:A:4737:ILE:HD12	1.82	0.61
1:C:1452:TRP:HD1	1:C:1527:MET:HE3	1.62	0.61
1:C:1706:PRO:N	1:C:1836:PHE:CE2	2.67	0.61
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.82	0.61
1:C:4938:ASP:OD1	1:E:4944:ARG:NE	2.31	0.61
1:E:46:LEU:HD13	1:E:125:ARG:NE	2.14	0.61
1:E:552:ASP:OD1	1:E:592:LYS:NZ	2.32	0.61
1:E:2748:PRO:HD2	1:E:2751:LEU:HD12	1.81	0.61
1:G:1124:PHE:HA	1:G:1131:ARG:HA	1.81	0.61
1:A:592:LYS:HE3	1:A:1596:GLU:OE2	2.01	0.61
1:A:595:ARG:HH22	1:A:1641:ILE:HG12	1.65	0.61
1:A:4979:THR:O	1:A:4984:ASN:N	2.28	0.61
1:C:49:LEU:HD23	1:C:191:VAL:HG23	1.81	0.61
1:C:1579:MET:O	1:C:1582:SER:OG	2.15	0.61
1:C:4180:ARG:HG2	1:C:4180:ARG:NH1	2.14	0.61
1:E:683:ARG:NH1	1:E:722:TRP:CD1	2.68	0.61
1:E:3972:PRO:HA	1:E:4032:GLU:OE2	2.00	0.61
1:E:4180:ARG:HB3	1:E:4194:TYR:HD1	1.66	0.61
1:G:70:GLU:C	1:G:71:GLN:HG2	2.18	0.61
1:G:683:ARG:NH1	1:G:722:TRP:CD1	2.68	0.61
1:G:1131:ARG:CD	1:G:1139:PHE:CD1	2.83	0.61
1:G:4687:TYR:CD2	1:G:4706:LEU:CD2	2.84	0.61
1:A:683:ARG:NH1	1:A:722:TRP:CD1	2.68	0.61
1:A:1436:SER:HA	1:A:1516:ILE:HA	1.83	0.61
1:A:4687:TYR:CD2	1:A:4706:LEU:CD2	2.84	0.61
1:C:648:ILE:HD12	1:C:815:VAL:HA	1.82	0.61
1:C:4053:SER:O	1:C:4056:GLU:HB3	2.01	0.61
1:E:607:CYS:O	1:E:618:GLN:NE2	2.25	0.61
1:E:2198:MET:CE	1:E:2203:MET:HE3	2.12	0.61
1:A:648:ILE:HD12	1:A:815:VAL:HA	1.82	0.61
1:A:802:PHE:O	1:A:804:PRO:HD3	2.00	0.61
1:A:4680:LYS:HB3	1:A:4686:LEU:HD22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:GLN:OE1	1:C:203:ASN:ND2	2.34	0.61
1:C:2756:ASN:OD1	1:C:2806:ARG:NH2	2.33	0.61
1:C:3767:GLN:NE2	1:C:3805:LEU:O	2.33	0.61
1:E:520:ASN:ND2	1:E:556:ALA:HB1	2.15	0.61
1:E:2137:ALA:HA	1:E:2140:ARG:HH21	1.66	0.61
1:E:4222:VAL:HG11	1:E:4950:VAL:HA	1.82	0.61
1:E:4687:TYR:CD2	1:E:4706:LEU:CD2	2.84	0.61
1:E:4688:ILE:HD12	1:E:4737:ILE:HD12	1.82	0.61
1:G:46:LEU:HD13	1:G:125:ARG:NE	2.14	0.61
1:G:49:LEU:CD2	1:G:191:VAL:CG2	2.78	0.61
1:A:552:ASP:OD1	1:A:592:LYS:NZ	2.32	0.61
1:A:1743:ARG:HB2	1:A:1963:GLU:CG	2.28	0.61
1:A:4145:VAL:O	1:A:4149:ASN:N	2.32	0.61
1:C:49:LEU:CD2	1:C:191:VAL:CG2	2.78	0.61
1:C:4898:GLY:HA2	1:C:4901:ILE:HG22	1.82	0.61
1:E:49:LEU:HD21	1:E:191:VAL:HG23	1.82	0.61
1:E:721:LEU:C	1:E:721:LEU:HD12	2.20	0.61
1:E:1131:ARG:CD	1:E:1139:PHE:CD1	2.83	0.61
1:E:3767:GLN:NE2	1:E:3805:LEU:O	2.33	0.61
1:G:520:ASN:ND2	1:G:556:ALA:HB1	2.15	0.61
1:G:1131:ARG:HH11	1:G:1131:ARG:CG	2.12	0.61
1:G:1615:VAL:HG12	1:G:1634:LEU:HD13	1.83	0.61
1:G:3972:PRO:HA	1:G:4032:GLU:OE2	2.00	0.61
1:G:4010:ILE:HD12	1:G:4010:ILE:C	2.20	0.61
1:G:4922:PHE:HA	1:G:4926:VAL:HB	1.81	0.61
1:A:23:GLN:OE1	1:A:203:ASN:ND2	2.34	0.61
1:A:681:HIS:CA	1:A:716:PHE:HD1	2.06	0.61
1:A:2556:LEU:O	1:A:2560:PRO:HD3	2.01	0.61
1:C:125:ARG:CB	1:C:134:ASP:CG	2.53	0.61
1:C:1098:GLY:HA3	1:C:1198:GLN:HE21	1.65	0.61
1:C:2198:MET:HE1	1:C:2203:MET:CE	2.25	0.61
1:C:4168:GLU:OE2	1:C:4175:ARG:NH2	2.32	0.61
1:C:4235:VAL:HG11	1:C:5019:TRP:CH2	2.36	0.61
1:G:802:PHE:O	1:G:804:PRO:HD3	2.00	0.61
1:G:1762:LEU:HD13	1:G:1763:PRO:HD2	1.81	0.61
1:G:2198:MET:HE1	1:G:2203:MET:CE	2.29	0.61
1:C:2423:MET:HG3	1:C:2498:HIS:CE1	2.36	0.61
1:C:4687:TYR:CD2	1:C:4706:LEU:CD2	2.84	0.61
1:E:49:LEU:CG	1:E:189:LEU:O	2.48	0.61
1:E:628:GLY:O	1:E:630:GLU:N	2.31	0.61
1:G:3669:PHE:O	1:G:3672:ARG:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4180:ARG:HB3	1:G:4194:TYR:HD1	1.66	0.61
1:G:4680:LYS:HB3	1:G:4686:LEU:HD22	1.83	0.61
1:A:70:GLU:C	1:A:71:GLN:HG2	2.18	0.61
1:A:1452:TRP:HD1	1:A:1527:MET:HE3	1.64	0.61
1:A:1743:ARG:CD	1:A:1963:GLU:HG3	2.29	0.61
1:A:2423:MET:HG3	1:A:2498:HIS:CE1	2.36	0.61
1:C:313:SER:O	1:C:350:HIS:ND1	2.34	0.61
1:C:736:HIS:NE2	1:C:739:ALA:HB2	2.14	0.61
1:C:2854:GLY:O	1:C:2856:ASN:ND2	2.33	0.61
1:C:3669:PHE:HE1	1:C:3670:GLU:OE1	1.81	0.61
1:E:23:GLN:OE1	1:E:203:ASN:ND2	2.34	0.61
1:E:806:PRO:O	1:E:808:TYR:N	2.33	0.61
1:E:1109:LEU:HA	1:E:1120:LEU:HD13	1.83	0.61
1:E:1762:LEU:HD13	1:E:1763:PRO:HD2	1.81	0.61
1:E:2556:LEU:O	1:E:2560:PRO:HD3	2.01	0.61
1:G:4180:ARG:CG	1:G:4180:ARG:HH11	2.14	0.61
1:C:2770:LYS:HB3	1:C:2775:TRP:HB2	1.83	0.60
1:C:4180:ARG:HB3	1:C:4194:TYR:HD1	1.66	0.60
1:C:4187:SER:CB	1:C:4189:ARG:HE	2.14	0.60
1:E:1615:VAL:HG12	1:E:1634:LEU:HD13	1.83	0.60
1:E:1857:GLU:H	1:E:1857:GLU:CD	1.97	0.60
1:E:4235:VAL:HG11	1:E:5019:TRP:CH2	2.36	0.60
1:G:2556:LEU:O	1:G:2560:PRO:HD3	2.01	0.60
1:G:4053:SER:O	1:G:4056:GLU:HB3	2.01	0.60
1:A:4053:SER:O	1:A:4056:GLU:HB3	2.01	0.60
1:A:4055:VAL:HA	1:A:4058:ILE:HG12	1.83	0.60
1:C:2246:ASN:O	1:C:2249:SER:OG	2.13	0.60
1:C:3669:PHE:HD1	1:C:3670:GLU:N	1.85	0.60
1:C:3669:PHE:O	1:C:3672:ARG:N	2.34	0.60
1:C:4145:VAL:O	1:C:4149:ASN:N	2.32	0.60
1:C:4688:ILE:HD12	1:C:4737:ILE:HD12	1.82	0.60
1:E:4168:GLU:OE2	1:E:4175:ARG:NH2	2.32	0.60
1:G:644:ILE:HD12	1:G:783:PHE:HE1	1.66	0.60
1:G:806:PRO:O	1:G:808:TYR:N	2.33	0.60
1:G:1805:GLU:HA	1:G:1808:ARG:HG2	1.83	0.60
1:G:2137:ALA:HA	1:G:2140:ARG:HH21	1.66	0.60
1:G:4181:ILE:HD13	1:G:4991:PHE:CD1	2.34	0.60
1:A:736:HIS:HE1	1:A:739:ALA:HB2	1.56	0.60
1:A:2137:ALA:HA	1:A:2140:ARG:HH21	1.66	0.60
1:A:2770:LYS:HB3	1:A:2775:TRP:HB2	1.83	0.60
1:C:33:LEU:HD12	1:C:53:SER:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2299:VAL:HG21	1:C:2356:LEU:HB3	1.82	0.60
1:E:592:LYS:HE3	1:E:1596:GLU:OE2	2.01	0.60
1:E:1140:GLY:HA3	1:E:1169:LEU:HD13	1.83	0.60
1:E:1585:LYS:NZ	1:E:1599:MET:SD	2.74	0.60
1:E:1616:GLU:HG3	1:E:1617:THR:HG23	1.82	0.60
1:E:2246:ASN:O	1:E:2249:SER:OG	2.13	0.60
1:G:49:LEU:CG	1:G:189:LEU:O	2.48	0.60
1:G:648:ILE:HD12	1:G:815:VAL:HA	1.82	0.60
1:G:2246:ASN:O	1:G:2249:SER:OG	2.13	0.60
1:G:4055:VAL:HA	1:G:4058:ILE:HG12	1.83	0.60
1:A:1131:ARG:CD	1:A:1139:PHE:CD1	2.83	0.60
1:A:1140:GLY:HA3	1:A:1169:LEU:HD13	1.83	0.60
1:A:1815:LEU:HD21	1:A:1845:VAL:HG21	1.84	0.60
1:A:3669:PHE:O	1:A:3672:ARG:N	2.34	0.60
1:A:3767:GLN:NE2	1:A:3805:LEU:O	2.33	0.60
1:A:4235:VAL:HG11	1:A:5019:TRP:CH2	2.36	0.60
1:A:4938:ASP:OD1	1:C:4944:ARG:NE	2.31	0.60
1:C:2100:HIS:O	1:C:2104:ARG:HG2	2.01	0.60
1:C:4055:VAL:HA	1:C:4058:ILE:HG12	1.83	0.60
1:C:4180:ARG:HH11	1:C:4180:ARG:CG	2.14	0.60
1:E:1098:GLY:HA3	1:E:1198:GLN:HE21	1.65	0.60
1:E:1815:LEU:HD21	1:E:1845:VAL:HG21	1.84	0.60
1:E:3963:ASN:O	1:E:3966:THR:OG1	2.15	0.60
1:E:4903:ASP:N	1:E:4903:ASP:OD1	2.34	0.60
1:G:4898:GLY:HA2	1:G:4901:ILE:HG22	1.82	0.60
1:A:644:ILE:HD12	1:A:783:PHE:HE1	1.66	0.60
1:A:1098:GLY:HA3	1:A:1198:GLN:HE21	1.65	0.60
1:A:1122:TYR:CZ	1:A:1133:HIS:HE1	2.20	0.60
1:C:1140:GLY:HA3	1:C:1169:LEU:HD13	1.83	0.60
1:E:33:LEU:HD12	1:E:53:SER:HB2	1.82	0.60
1:E:1436:SER:HA	1:E:1516:ILE:HA	1.83	0.60
1:E:2299:VAL:HG21	1:E:2356:LEU:HB3	1.82	0.60
1:E:4181:ILE:HD13	1:E:4991:PHE:CD1	2.34	0.60
1:E:4898:GLY:HA2	1:E:4901:ILE:HG22	1.82	0.60
1:G:1109:LEU:HA	1:G:1120:LEU:HD13	1.83	0.60
1:G:2770:LYS:HB3	1:G:2775:TRP:HB2	1.83	0.60
1:G:2774:ASN:OD1	1:G:2852:ARG:NE	2.34	0.60
1:G:4187:SER:CB	1:G:4189:ARG:HE	2.14	0.60
1:G:4688:ILE:HD12	1:G:4737:ILE:HD12	1.82	0.60
1:A:49:LEU:HD21	1:A:191:VAL:HG23	1.82	0.60
1:A:600:LEU:HD21	1:A:1666:THR:CA	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LEU:HD23	1:A:767:VAL:HG11	1.79	0.60
1:A:876:GLU:HG3	1:A:910:PHE:HB3	1.84	0.60
1:A:3972:PRO:HA	1:A:4032:GLU:OE2	2.00	0.60
1:A:4180:ARG:HB3	1:A:4194:TYR:HD1	1.66	0.60
1:A:4180:ARG:HH11	1:A:4180:ARG:CG	2.14	0.60
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.82	0.60
1:C:802:PHE:O	1:C:804:PRO:HD3	2.00	0.60
1:C:891:TRP:HH2	1:C:899:ASP:HA	1.67	0.60
1:C:2137:ALA:HA	1:C:2140:ARG:HH21	1.66	0.60
1:C:2774:ASN:OD1	1:C:2852:ARG:NE	2.34	0.60
1:C:3934:TYR:O	1:C:3938:SER:N	2.34	0.60
1:E:49:LEU:HD23	1:E:191:VAL:HG23	1.81	0.60
1:E:125:ARG:HD2	1:E:134:ASP:OD2	2.02	0.60
1:E:1432:THR:N	1:E:1519:LEU:O	2.35	0.60
1:E:1805:GLU:HA	1:E:1808:ARG:HG2	1.83	0.60
1:G:1432:THR:N	1:G:1519:LEU:O	2.35	0.60
1:G:1585:LYS:NZ	1:G:1599:MET:SD	2.74	0.60
1:G:1857:GLU:H	1:G:1857:GLU:CD	1.97	0.60
1:G:3767:GLN:NE2	1:G:3805:LEU:O	2.33	0.60
1:G:4687:TYR:HE2	1:G:4703:ARG:HA	1.65	0.60
1:A:45:ARG:NH2	1:A:116:MET:HE1	2.10	0.60
1:A:1585:LYS:NZ	1:A:1599:MET:SD	2.74	0.60
1:A:4806:ASN:O	1:A:4809:PHE:HB3	2.02	0.60
1:A:4895:GLY:HA2	1:A:4921:PHE:HE1	1.67	0.60
1:C:421:PHE:HE2	1:C:436:LEU:HD21	1.66	0.60
1:C:1585:LYS:NZ	1:C:1599:MET:SD	2.74	0.60
1:C:1815:LEU:HD21	1:C:1845:VAL:HG21	1.84	0.60
1:C:1828:ASP:HB3	1:C:1830:VAL:H	1.66	0.60
1:C:4806:ASN:O	1:C:4809:PHE:HB3	2.02	0.60
1:E:2774:ASN:OD1	1:E:2852:ARG:NE	2.34	0.60
1:E:4180:ARG:CG	1:E:4180:ARG:HH11	2.14	0.60
1:E:4806:ASN:O	1:E:4809:PHE:HB3	2.02	0.60
1:G:1140:GLY:HA3	1:G:1169:LEU:HD13	1.83	0.60
1:G:1743:ARG:HB2	1:G:1963:GLU:CG	2.28	0.60
1:G:1828:ASP:HB3	1:G:1830:VAL:H	1.66	0.60
1:G:4222:VAL:HG11	1:G:4950:VAL:HA	1.82	0.60
1:A:157:ARG:HH22	1:A:164:ARG:HG2	1.67	0.60
1:A:1079:LYS:HG3	1:A:1237:TRP:CH2	2.37	0.60
1:A:1828:ASP:HB3	1:A:1830:VAL:H	1.66	0.60
1:A:2625:UNK:HA	1:A:2910:THR:HG22	1.84	0.60
1:A:3970:GLN:HE22	1:A:4029:SER:CB	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:LEU:CG	1:C:189:LEU:O	2.48	0.60
1:C:157:ARG:HH22	1:C:164:ARG:HG2	1.67	0.60
1:C:1432:THR:N	1:C:1519:LEU:O	2.35	0.60
1:C:2556:LEU:O	1:C:2560:PRO:HD3	2.01	0.60
1:C:3919:THR:HG21	1:C:3968:TYR:HE2	1.67	0.60
1:C:4895:GLY:HA2	1:C:4921:PHE:HE1	1.67	0.60
1:E:421:PHE:HE2	1:E:436:LEU:HD21	1.66	0.60
1:E:802:PHE:O	1:E:804:PRO:HD3	2.00	0.60
1:E:1093:GLU:OE1	1:E:1201:HIS:ND1	2.35	0.60
1:E:1706:PRO:N	1:E:1836:PHE:CE2	2.67	0.60
1:G:592:LYS:HE3	1:G:1596:GLU:OE2	2.01	0.60
1:G:2146:PRO:HA	1:G:2149:VAL:HG13	1.84	0.60
1:G:4806:ASN:O	1:G:4809:PHE:HB3	2.02	0.60
1:A:4181:ILE:HD13	1:A:4991:PHE:CD1	2.34	0.60
1:C:592:LYS:HE3	1:C:1596:GLU:OE2	2.01	0.60
1:C:1093:GLU:OE1	1:C:1201:HIS:ND1	2.35	0.60
1:C:2066:LEU:O	1:C:2069:THR:OG1	2.13	0.60
1:C:4680:LYS:HB3	1:C:4686:LEU:HD22	1.83	0.60
1:C:4903:ASP:OD1	1:C:4903:ASP:N	2.34	0.60
1:E:648:ILE:HD12	1:E:815:VAL:HA	1.82	0.60
1:E:2423:MET:HG3	1:E:2498:HIS:CE1	2.36	0.60
1:E:4053:SER:O	1:E:4056:GLU:HB3	2.01	0.60
1:E:4055:VAL:HA	1:E:4058:ILE:HG12	1.83	0.60
1:E:4687:TYR:HE2	1:E:4703:ARG:HA	1.65	0.60
1:G:446:GLN:HG3	1:G:521:LEU:HD21	1.84	0.60
1:G:472:ARG:NH1	1:G:532:GLY:O	2.32	0.60
1:G:1098:GLY:HA3	1:G:1198:GLN:HE21	1.65	0.60
1:G:1122:TYR:CZ	1:G:1133:HIS:HE1	2.20	0.60
1:G:3970:GLN:HE22	1:G:4029:SER:CB	2.15	0.60
1:A:1615:VAL:HG12	1:A:1634:LEU:HD13	1.83	0.60
1:A:4187:SER:CB	1:A:4189:ARG:HE	2.14	0.60
1:C:628:GLY:O	1:C:630:GLU:N	2.31	0.60
1:C:3970:GLN:HE22	1:C:4029:SER:CB	2.15	0.60
1:E:313:SER:O	1:E:350:HIS:ND1	2.34	0.60
1:E:2146:PRO:HA	1:E:2149:VAL:HG13	1.84	0.60
1:E:2770:LYS:HB3	1:E:2775:TRP:HB2	1.83	0.60
1:G:23:GLN:OE1	1:G:203:ASN:ND2	2.34	0.60
1:G:1436:SER:HA	1:G:1516:ILE:HA	1.83	0.60
1:G:2100:HIS:O	1:G:2104:ARG:HG2	2.01	0.60
1:A:313:SER:O	1:A:350:HIS:ND1	2.34	0.59
1:A:3984:ARG:HD3	1:G:161:GLU:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:644:ILE:HD12	1:C:783:PHE:HE1	1.66	0.59
1:C:768:PHE:HB3	1:C:771:PHE:CZ	2.37	0.59
1:E:446:GLN:HG3	1:E:521:LEU:HD21	1.84	0.59
1:E:721:LEU:HD12	1:E:722:TRP:N	2.17	0.59
1:E:840:VAL:HA	1:E:1199:VAL:HG22	1.84	0.59
1:E:3970:GLN:HE22	1:E:4029:SER:CB	2.15	0.59
1:E:4172:GLU:HG2	1:E:4175:ARG:HH12	1.67	0.59
1:G:721:LEU:HD12	1:G:722:TRP:N	2.17	0.59
1:G:2423:MET:HG3	1:G:2498:HIS:CE1	2.36	0.59
1:G:3934:TYR:O	1:G:3938:SER:N	2.34	0.59
1:A:421:PHE:HE2	1:A:436:LEU:HD21	1.66	0.59
1:A:622:THR:O	1:A:627:PRO:HD3	2.02	0.59
1:A:768:PHE:HB3	1:A:771:PHE:CZ	2.37	0.59
1:A:835:ARG:NH2	1:A:1093:GLU:OE2	2.32	0.59
1:A:4948:GLU:OE2	1:G:4949:GLN:NE2	2.35	0.59
1:C:25:SER:HA	1:C:34:LYS:HG2	1.85	0.59
1:C:840:VAL:HA	1:C:1199:VAL:HG22	1.84	0.59
1:C:1079:LYS:HG3	1:C:1237:TRP:CH2	2.37	0.59
1:C:1105:ALA:HB3	1:C:1191:VAL:HG21	1.84	0.59
1:E:4010:ILE:HD12	1:E:4010:ILE:C	2.20	0.59
1:E:4187:SER:CB	1:E:4189:ARG:HE	2.14	0.59
1:E:4227:GLU:HG2	1:E:4228:ALA:H	1.67	0.59
1:E:4251:ILE:HG21	1:E:4557:ARG:HB3	1.84	0.59
1:G:622:THR:O	1:G:627:PRO:HD3	2.02	0.59
1:A:161:GLU:HG3	1:C:3984:ARG:HD3	1.84	0.59
1:C:167:ASP:CG	1:E:384:MET:HE1	2.22	0.59
1:C:4172:GLU:HG2	1:C:4175:ARG:HH12	1.67	0.59
1:E:572:PRO:HB3	1:E:609:CYS:HB3	1.84	0.59
1:E:876:GLU:HG3	1:E:910:PHE:HB3	1.84	0.59
1:E:4895:GLY:HA2	1:E:4921:PHE:HE1	1.67	0.59
1:E:4904:PRO:HG2	1:E:4910:GLU:CG	2.28	0.59
1:G:49:LEU:HD21	1:G:191:VAL:HG23	1.82	0.59
1:G:70:GLU:O	1:G:71:GLN:CG	2.40	0.59
1:G:3919:THR:HG21	1:G:3968:TYR:HE2	1.67	0.59
1:G:4631:PHE:CE2	1:G:4633:GLU:HB3	2.37	0.59
1:A:1705:GLY:C	1:A:1836:PHE:HD2	2.06	0.59
1:A:4227:GLU:HG2	1:A:4228:ALA:H	1.67	0.59
1:A:4631:PHE:CE2	1:A:4633:GLU:HB3	2.37	0.59
1:C:721:LEU:HD12	1:C:722:TRP:N	2.17	0.59
1:C:876:GLU:HG3	1:C:910:PHE:HB3	1.84	0.59
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1615:VAL:HG12	1:C:1634:LEU:HD13	1.83	0.59
1:C:4904:PRO:HG2	1:C:4910:GLU:CG	2.28	0.59
1:E:554:LEU:HD21	1:E:593:HIS:CE1	2.37	0.59
1:E:891:TRP:HH2	1:E:899:ASP:HA	1.67	0.59
1:E:3934:TYR:O	1:E:3938:SER:N	2.34	0.59
1:G:554:LEU:HD21	1:G:593:HIS:CE1	2.37	0.59
1:G:891:TRP:HH2	1:G:899:ASP:HA	1.67	0.59
1:G:4168:GLU:OE2	1:G:4175:ARG:NH2	2.32	0.59
1:G:4235:VAL:HG11	1:G:5019:TRP:CH2	2.36	0.59
2:B:74:LEU:HB2	2:B:99:PHE:HB2	1.85	0.59
1:C:1122:TYR:CZ	1:C:1133:HIS:HE1	2.20	0.59
1:C:2166:LEU:HD12	1:C:2206:THR:HG23	1.85	0.59
2:D:74:LEU:HB2	2:D:99:PHE:HB2	1.85	0.59
1:E:25:SER:HA	1:E:34:LYS:HG2	1.85	0.59
1:E:1122:TYR:CZ	1:E:1133:HIS:HE1	2.20	0.59
1:E:4680:LYS:HB3	1:E:4686:LEU:HD22	1.83	0.59
1:G:157:ARG:HH2	1:G:164:ARG:HG2	1.67	0.59
1:G:1079:LYS:HG3	1:G:1237:TRP:CH2	2.37	0.59
1:G:1105:ALA:HB3	1:G:1191:VAL:HG21	1.84	0.59
1:G:1705:GLY:C	1:G:1836:PHE:HD2	2.06	0.59
1:G:1815:LEU:HD21	1:G:1845:VAL:HG21	1.84	0.59
1:G:4686:LEU:CD2	1:G:4687:TYR:CE1	2.85	0.59
1:A:1105:ALA:HB3	1:A:1191:VAL:HG21	1.84	0.59
1:A:2100:HIS:O	1:A:2104:ARG:HG2	2.01	0.59
1:A:2774:ASN:OD1	1:A:2852:ARG:NE	2.34	0.59
1:A:4172:GLU:HG2	1:A:4175:ARG:HH12	1.67	0.59
1:A:4823:LEU:HD11	1:G:4843:LEU:HB2	1.85	0.59
1:C:622:THR:O	1:C:627:PRO:HD3	2.02	0.59
1:C:1705:GLY:C	1:C:1836:PHE:HD2	2.06	0.59
1:E:157:ARG:HH2	1:E:164:ARG:HG2	1.67	0.59
1:E:644:ILE:HD12	1:E:783:PHE:HE1	1.66	0.59
1:E:1087:ARG:NH1	1:E:1221:GLU:O	2.36	0.59
1:E:1105:ALA:HB3	1:E:1191:VAL:HG21	1.84	0.59
1:E:1782:PHE:HD2	2:F:37:ASP:HB2	1.67	0.59
1:G:421:PHE:HE2	1:G:436:LEU:HD21	1.66	0.59
1:G:768:PHE:HB3	1:G:771:PHE:CZ	2.37	0.59
1:G:4172:GLU:HG2	1:G:4175:ARG:HH12	1.67	0.59
1:G:4904:PRO:HG2	1:G:4910:GLU:CG	2.28	0.59
1:A:167:ASP:OD1	1:C:384:MET:SD	2.61	0.59
1:A:721:LEU:HD12	1:A:722:TRP:N	2.17	0.59
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1805:GLU:HA	1:A:1808:ARG:HG2	1.83	0.59
1:A:2146:PRO:HA	1:A:2149:VAL:HG13	1.84	0.59
1:A:3934:TYR:O	1:A:3938:SER:N	2.34	0.59
1:A:4687:TYR:CE2	1:A:4703:ARG:HG2	2.38	0.59
1:C:3841:VAL:CG1	1:C:3842:LEU:H	2.16	0.59
1:E:646:PRO:HB2	1:E:793:LEU:CD1	2.26	0.59
1:E:1079:LYS:HG3	1:E:1237:TRP:CH2	2.37	0.59
2:F:4:VAL:HG22	2:F:74:LEU:HG	1.85	0.59
1:G:125:ARG:HD2	1:G:134:ASP:OD2	2.02	0.59
1:G:313:SER:O	1:G:350:HIS:ND1	2.34	0.59
1:G:736:HIS:CE1	1:G:739:ALA:CB	2.78	0.59
1:G:4195:PHE:CE1	1:G:4197:ILE:HG12	2.30	0.59
1:G:4895:GLY:HA2	1:G:4921:PHE:HE1	1.67	0.59
1:A:1093:GLU:OE1	1:A:1201:HIS:ND1	2.35	0.59
1:A:1432:THR:N	1:A:1519:LEU:O	2.35	0.59
1:A:4010:ILE:HD12	1:A:4010:ILE:C	2.20	0.59
1:A:4949:GLN:NE2	1:C:4948:GLU:OE2	2.35	0.59
1:C:446:GLN:HG3	1:C:521:LEU:HD21	1.84	0.59
1:C:598:LYS:H	1:C:598:LYS:CD	2.00	0.59
1:C:1805:GLU:HA	1:C:1808:ARG:HG2	1.83	0.59
1:E:1705:GLY:C	1:E:1836:PHE:HD2	2.06	0.59
1:E:2100:HIS:O	1:E:2104:ARG:HG2	2.01	0.59
1:E:3919:THR:HG21	1:E:3968:TYR:HE2	1.67	0.59
1:E:4722:ARG:O	1:E:4725:LEU:HG	2.02	0.59
1:E:4730:ASP:OD1	1:E:4734:ARG:NH2	2.36	0.59
1:G:876:GLU:HG3	1:G:910:PHE:HB3	1.84	0.59
1:G:3841:VAL:CG1	1:G:3842:LEU:H	2.16	0.59
1:A:2166:LEU:HD12	1:A:2206:THR:HG23	1.85	0.59
1:A:4722:ARG:O	1:A:4725:LEU:HG	2.02	0.59
1:C:161:GLU:HG3	1:E:3984:ARG:HD3	1.84	0.59
1:C:221:ARG:NE	1:C:258:SER:OG	2.36	0.59
1:C:284:HIS:CD2	1:C:287:THR:H	2.21	0.59
1:C:4010:ILE:HD12	1:C:4010:ILE:C	2.20	0.59
1:E:3669:PHE:O	1:E:3672:ARG:N	2.34	0.59
1:E:4687:TYR:CE2	1:E:4703:ARG:HG2	2.38	0.59
1:A:554:LEU:HD21	1:A:593:HIS:CE1	2.37	0.59
1:A:572:PRO:HB3	1:A:609:CYS:HB3	1.84	0.59
1:A:736:HIS:CE1	1:A:739:ALA:CB	2.78	0.59
1:A:1018:ASN:CB	1:A:1021:LEU:CD2	2.58	0.59
1:A:3670:GLU:HG2	1:A:3728:ILE:CB	2.33	0.59
1:C:572:PRO:HB3	1:C:609:CYS:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1436:SER:HA	1:C:1516:ILE:HA	1.83	0.59
1:C:4251:ILE:HG21	1:C:4557:ARG:HB3	1.84	0.59
1:C:4722:ARG:O	1:C:4725:LEU:HG	2.02	0.59
1:C:4949:GLN:NE2	1:E:4948:GLU:OE2	2.35	0.59
1:E:167:ASP:OD1	1:G:384:MET:SD	2.61	0.59
1:E:221:ARG:NE	1:E:258:SER:OG	2.36	0.59
1:E:1240:LYS:HZ1	1:E:1610:ASN:HD22	1.50	0.59
1:E:1763:PRO:HG3	1:E:2094:LEU:HD22	1.85	0.59
1:E:2773:ASN:HD22	1:E:2775:TRP:HE1	1.51	0.59
1:E:2929:PHE:O	1:E:2933:ASN:ND2	2.34	0.59
1:G:1087:ARG:NH1	1:G:1221:GLU:O	2.36	0.59
1:G:2773:ASN:HD22	1:G:2775:TRP:HE1	1.51	0.59
1:G:4251:ILE:HG21	1:G:4557:ARG:HB3	1.84	0.59
1:G:4687:TYR:CE2	1:G:4703:ARG:HG2	2.38	0.59
1:A:603:LEU:HD13	1:A:625:LEU:HD11	1.85	0.58
1:A:628:GLY:O	1:A:630:GLU:N	2.31	0.58
1:A:840:VAL:HA	1:A:1199:VAL:HG22	1.84	0.58
1:A:3674:ILE:HG13	1:A:3732:SER:HB3	1.85	0.58
1:A:3841:VAL:CG1	1:A:3842:LEU:H	2.16	0.58
1:A:3919:THR:HG21	1:A:3968:TYR:HE2	1.67	0.58
1:C:1782:PHE:HD2	2:D:37:ASP:HB2	1.67	0.58
1:E:3969:ILE:HG23	1:E:3977:GLN:HG2	1.85	0.58
1:E:4843:LEU:HB2	1:G:4823:LEU:HD11	1.85	0.58
1:E:4949:GLN:NE2	1:G:4948:GLU:OE2	2.35	0.58
1:G:25:SER:HA	1:G:34:LYS:HG2	1.85	0.58
1:G:840:VAL:HA	1:G:1199:VAL:HG22	1.84	0.58
1:G:3841:VAL:HG12	1:G:3842:LEU:H	1.68	0.58
1:G:4227:GLU:HG2	1:G:4228:ALA:H	1.67	0.58
1:G:4730:ASP:OD1	1:G:4734:ARG:NH2	2.36	0.58
2:B:4:VAL:HG22	2:B:74:LEU:HG	1.85	0.58
1:C:692:TYR:CD1	1:C:711:LEU:HD21	2.38	0.58
1:C:1652:GLU:O	1:C:1655:GLU:HG2	2.04	0.58
1:C:2146:PRO:HA	1:C:2149:VAL:HG13	1.84	0.58
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.14	0.58
1:C:4710:SER:O	1:C:4713:SER:OG	2.16	0.58
1:C:4730:ASP:OD1	1:C:4734:ARG:NH2	2.36	0.58
1:E:2625:UNK:HA	1:E:2910:THR:HG22	1.84	0.58
1:E:4693:GLY:C	1:E:4695:ASP:N	2.44	0.58
1:G:1763:PRO:HG3	1:G:2094:LEU:HD22	1.85	0.58
1:G:3674:ILE:HG13	1:G:3732:SER:HB3	1.85	0.58
1:A:49:LEU:CG	1:A:189:LEU:O	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:SER:HB2	1:A:334:MET:O	2.03	0.58
1:A:598:LYS:H	1:A:598:LYS:CD	2.00	0.58
1:A:1652:GLU:O	1:A:1655:GLU:HG2	2.04	0.58
1:A:4710:SER:O	1:A:4713:SER:OG	2.16	0.58
1:A:4730:ASP:OD1	1:A:4734:ARG:NH2	2.36	0.58
1:C:70:GLU:O	1:C:71:GLN:CG	2.40	0.58
1:C:167:ASP:OD1	1:E:384:MET:SD	2.61	0.58
1:C:1743:ARG:HB2	1:C:1963:GLU:CG	2.28	0.58
1:E:1652:GLU:O	1:E:1655:GLU:HG2	2.04	0.58
2:F:74:LEU:HB2	2:F:99:PHE:HB2	1.85	0.58
1:G:1782:PHE:HD2	2:H:37:ASP:HB2	1.67	0.58
1:G:4145:VAL:O	1:G:4149:ASN:N	2.32	0.58
1:A:25:SER:HA	1:A:34:LYS:HG2	1.85	0.58
1:A:721:LEU:HD22	1:A:767:VAL:HG12	1.79	0.58
1:A:2246:ASN:O	1:A:2249:SER:OG	2.13	0.58
1:C:49:LEU:HD21	1:C:191:VAL:HG23	1.82	0.58
1:C:554:LEU:HD21	1:C:593:HIS:CE1	2.37	0.58
1:C:3674:ILE:HG13	1:C:3732:SER:HB3	1.85	0.58
1:E:284:HIS:CD2	1:E:287:THR:H	2.21	0.58
1:E:622:THR:O	1:E:627:PRO:HD3	2.02	0.58
1:G:3670:GLU:HG2	1:G:3728:ILE:CB	2.33	0.58
1:A:891:TRP:HH2	1:A:899:ASP:HA	1.67	0.58
1:A:4843:LEU:HB2	1:C:4823:LEU:HD11	1.85	0.58
1:C:603:LEU:HD13	1:C:625:LEU:HD11	1.85	0.58
1:C:3670:GLU:HG2	1:C:3728:ILE:CB	2.33	0.58
1:C:4631:PHE:CE2	1:C:4633:GLU:HB3	2.37	0.58
1:E:768:PHE:HB3	1:E:771:PHE:CZ	2.37	0.58
1:E:1739:THR:O	1:E:1742:THR:OG1	2.17	0.58
1:E:1761:GLY:O	1:E:1762:LEU:CB	2.51	0.58
1:E:4631:PHE:CE2	1:E:4633:GLU:HB3	2.37	0.58
1:G:125:ARG:CB	1:G:134:ASP:CG	2.53	0.58
1:G:1148:VAL:HG11	1:G:1213:PHE:HD2	1.69	0.58
1:G:3969:ILE:HG23	1:G:3977:GLN:HG2	1.85	0.58
1:G:4903:ASP:N	1:G:4903:ASP:OD1	2.34	0.58
2:H:74:LEU:HB2	2:H:99:PHE:HB2	1.85	0.58
1:A:1782:PHE:HD2	2:B:37:ASP:HB2	1.67	0.58
1:A:4251:ILE:HG21	1:A:4557:ARG:HB3	1.84	0.58
1:C:839:LEU:HB3	1:C:1075:PHE:CE2	2.39	0.58
1:E:472:ARG:NH1	1:E:532:GLY:O	2.32	0.58
1:G:45:ARG:NH2	1:G:116:MET:HE1	2.15	0.58
1:G:755:ILE:HB	1:G:768:PHE:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1761:GLY:O	1:G:1762:LEU:CB	2.51	0.58
1:G:2625:UNK:HA	1:G:2910:THR:HG22	1.84	0.58
1:A:446:GLN:HG3	1:A:521:LEU:HD21	1.84	0.58
1:A:839:LEU:HB3	1:A:1075:PHE:CE2	2.39	0.58
1:A:1761:GLY:O	1:A:1762:LEU:CB	2.51	0.58
1:C:272:SER:HB2	1:C:334:MET:O	2.03	0.58
1:E:1838:PHE:O	1:E:1841:VAL:N	2.37	0.58
1:E:3674:ILE:HG13	1:E:3732:SER:HB3	1.85	0.58
1:E:4180:ARG:HG2	1:E:4180:ARG:HH11	1.69	0.58
1:G:600:LEU:HD21	1:G:1666:THR:CA	2.26	0.58
1:G:1856:ASP:N	1:G:1857:GLU:OE2	2.36	0.58
1:A:1856:ASP:N	1:A:1857:GLU:OE2	2.36	0.58
1:C:1763:PRO:HG3	1:C:2094:LEU:HD22	1.85	0.58
1:C:2625:UNK:HA	1:C:2910:THR:HG22	1.84	0.58
1:C:3841:VAL:HG12	1:C:3842:LEU:H	1.68	0.58
1:C:4227:GLU:HG2	1:C:4228:ALA:H	1.67	0.58
1:C:4687:TYR:CE2	1:C:4703:ARG:HG2	2.38	0.58
1:E:70:GLU:O	1:E:71:GLN:CG	2.40	0.58
1:G:284:HIS:CD2	1:G:287:THR:H	2.21	0.58
1:G:835:ARG:NH2	1:G:1093:GLU:OE2	2.32	0.58
1:G:2166:LEU:HD12	1:G:2206:THR:HG23	1.85	0.58
2:H:4:VAL:HG22	2:H:74:LEU:HG	1.85	0.58
1:A:692:TYR:CD1	1:A:711:LEU:HD21	2.38	0.58
1:C:1763:PRO:CD	1:C:1863:LEU:CD1	2.57	0.58
1:C:1856:ASP:N	1:C:1857:GLU:OE2	2.36	0.58
1:E:161:GLU:HG3	1:G:3984:ARG:HD3	1.84	0.58
1:E:2166:LEU:HD12	1:E:2206:THR:HG23	1.85	0.58
1:E:2465:UNK:O	1:E:2467:UNK:N	2.37	0.58
1:E:3670:GLU:HG2	1:E:3728:ILE:CB	2.33	0.58
1:E:3841:VAL:CG1	1:E:3842:LEU:H	2.16	0.58
1:E:3970:GLN:HE21	1:E:3970:GLN:CA	2.09	0.58
1:A:221:ARG:NE	1:A:258:SER:OG	2.36	0.58
1:A:384:MET:SD	1:G:167:ASP:OD1	2.61	0.58
1:A:755:ILE:HB	1:A:768:PHE:HB2	1.86	0.58
1:A:3963:ASN:O	1:A:3966:THR:OG1	2.15	0.58
1:A:4010:ILE:O	1:A:4011:GLU:C	2.42	0.58
1:C:468:LEU:HD21	1:C:472:ARG:HH21	1.69	0.58
1:C:2465:UNK:O	1:C:2467:UNK:N	2.37	0.58
1:C:3970:GLN:HE21	1:C:3970:GLN:CA	2.09	0.58
1:C:4180:ARG:HG2	1:C:4180:ARG:HH11	1.69	0.58
1:C:4843:LEU:HB2	1:E:4823:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4181:ILE:HD12	1:E:4991:PHE:CD2	2.38	0.58
1:G:221:ARG:NE	1:G:258:SER:OG	2.36	0.58
1:G:272:SER:HB2	1:G:334:MET:O	2.03	0.58
1:G:1018:ASN:CB	1:G:1021:LEU:CD2	2.58	0.58
1:G:2465:UNK:O	1:G:2467:UNK:N	2.37	0.58
1:G:2547:ALA:O	1:G:2550:LEU:HG	2.04	0.58
1:G:4003:LEU:HB2	1:G:4013:LEU:HD12	1.86	0.58
1:G:4722:ARG:O	1:G:4725:LEU:HG	2.02	0.58
1:A:284:HIS:CD2	1:A:287:THR:H	2.21	0.57
1:A:3794:VAL:O	1:A:3797:THR:OG1	2.18	0.57
1:A:3835:LEU:HD21	1:A:3880:PHE:CE2	2.39	0.57
1:A:4686:LEU:CD2	1:A:4687:TYR:CE1	2.85	0.57
1:C:2773:ASN:HD22	1:C:2775:TRP:HE1	1.51	0.57
1:C:4195:PHE:CE1	1:C:4197:ILE:HG12	2.30	0.57
2:D:4:VAL:HG22	2:D:74:LEU:HG	1.85	0.57
1:E:272:SER:HB2	1:E:334:MET:O	2.03	0.57
1:E:716:PHE:HE2	1:E:717:ASP:HB3	1.61	0.57
1:E:1856:ASP:N	1:E:1857:GLU:OE2	2.36	0.57
1:E:2351:ASN:O	1:E:2355:ARG:HG2	2.04	0.57
1:G:572:PRO:HB3	1:G:609:CYS:HB3	1.84	0.57
1:A:384:MET:CE	1:G:167:ASP:CG	2.73	0.57
1:A:1277:TRP:HB2	1:A:1562:ILE:HG22	1.86	0.57
1:A:4074:SER:HA	1:A:4077:PHE:HD2	1.69	0.57
1:A:4984:ASN:OD1	1:A:4987:ASN:ND2	2.38	0.57
1:C:273:HIS:CE1	1:C:334:MET:HE2	2.38	0.57
1:C:755:ILE:HB	1:C:768:PHE:HB2	1.86	0.57
1:C:2198:MET:HE1	1:C:2203:MET:HE1	1.84	0.57
1:C:3963:ASN:O	1:C:3966:THR:OG1	2.15	0.57
1:C:4984:ASN:OD1	1:C:4987:ASN:ND2	2.38	0.57
1:E:692:TYR:CD1	1:E:711:LEU:HD21	2.38	0.57
1:E:1708:ARG:CZ	1:E:1712:TYR:HE2	2.17	0.57
1:E:4003:LEU:HB2	1:E:4013:LEU:HD12	1.86	0.57
1:E:4074:SER:HA	1:E:4077:PHE:HD2	1.69	0.57
1:E:4687:TYR:OH	1:E:4702:ASP:CB	2.52	0.57
1:G:3835:LEU:HD21	1:G:3880:PHE:CE2	2.39	0.57
1:A:1544:PRO:O	1:A:1545:ASN:HB3	2.04	0.57
1:A:3936:TYR:O	1:A:3940:LYS:NZ	2.26	0.57
1:A:4903:ASP:OD1	1:A:4903:ASP:N	2.34	0.57
1:C:1761:GLY:O	1:C:1762:LEU:CB	2.51	0.57
1:C:3835:LEU:HD21	1:C:3880:PHE:CE2	2.39	0.57
1:E:603:LEU:HD13	1:E:625:LEU:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:839:LEU:HB3	1:E:1075:PHE:CE2	2.39	0.57
1:G:692:TYR:CD1	1:G:711:LEU:HD21	2.38	0.57
1:G:1544:PRO:O	1:G:1545:ASN:HB3	2.04	0.57
1:G:1705:GLY:C	1:G:1836:PHE:CE2	2.78	0.57
1:G:4010:ILE:O	1:G:4011:GLU:C	2.42	0.57
1:A:161:GLU:HG3	1:C:3984:ARG:CD	2.35	0.57
1:A:2547:ALA:O	1:A:2550:LEU:HG	2.04	0.57
1:A:2773:ASN:HD22	1:A:2775:TRP:HE1	1.51	0.57
1:A:3969:ILE:HG23	1:A:3977:GLN:HG2	1.85	0.57
1:C:472:ARG:NH1	1:C:532:GLY:O	2.32	0.57
1:C:1708:ARG:CZ	1:C:1712:TYR:HE2	2.17	0.57
1:C:1857:GLU:H	1:C:1857:GLU:CD	1.97	0.57
1:E:1705:GLY:C	1:E:1836:PHE:CE2	2.78	0.57
1:G:1579:MET:O	1:G:1582:SER:OG	2.15	0.57
1:G:2907:PRO:O	1:G:2910:THR:OG1	2.14	0.57
1:A:1705:GLY:C	1:A:1836:PHE:CE2	2.78	0.57
1:A:1838:PHE:O	1:A:1841:VAL:N	2.37	0.57
1:A:1972:ASN:O	1:A:1975:SER:OG	2.17	0.57
1:A:3669:PHE:HD1	1:A:3670:GLU:N	1.85	0.57
1:C:3936:TYR:O	1:C:3940:LYS:NZ	2.26	0.57
1:C:4181:ILE:HB	1:C:4988:TYR:CD1	2.40	0.57
1:C:4555:LEU:HD11	1:C:4656:LEU:HG	1.87	0.57
1:E:3905:THR:HG23	1:E:3907:THR:HG23	1.87	0.57
1:E:4686:LEU:CD2	1:E:4687:TYR:CE1	2.85	0.57
1:E:4938:ASP:OD2	1:G:4940:PHE:HB3	2.04	0.57
1:G:721:LEU:HD21	1:G:1474:VAL:CG1	2.35	0.57
1:G:2351:ASN:O	1:G:2355:ARG:HG2	2.04	0.57
1:A:1763:PRO:HG3	1:A:2094:LEU:HD22	1.85	0.57
1:A:1848:LEU:CG	1:A:1854:PHE:CZ	2.88	0.57
1:C:161:GLU:HG3	1:E:3984:ARG:CD	2.35	0.57
1:C:3905:THR:HG23	1:C:3907:THR:HG23	1.87	0.57
1:C:3969:ILE:HG23	1:C:3977:GLN:HG2	1.85	0.57
1:E:167:ASP:CG	1:G:384:MET:CE	2.73	0.57
1:E:1613:LEU:HB3	1:E:1616:GLU:HB3	1.87	0.57
1:E:2350:ALA:HB1	1:E:2436:CYS:HB2	1.87	0.57
1:E:4239:GLU:OE1	1:E:4675:LYS:HD2	2.05	0.57
1:G:603:LEU:HD13	1:G:625:LEU:HD11	1.85	0.57
1:A:721:LEU:HD21	1:A:1474:VAL:CG1	2.35	0.57
1:C:1838:PHE:O	1:C:1841:VAL:N	2.37	0.57
1:C:4010:ILE:O	1:C:4011:GLU:C	2.42	0.57
1:E:161:GLU:HG3	1:G:3984:ARG:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1210:SER:HA	1:E:1213:PHE:CZ	2.40	0.57
1:E:1743:ARG:HB2	1:E:1963:GLU:CG	2.28	0.57
1:E:3841:VAL:HG12	1:E:3842:LEU:H	1.68	0.57
1:E:4145:VAL:O	1:E:4149:ASN:N	2.32	0.57
1:G:1708:ARG:CZ	1:G:1712:TYR:HE2	2.17	0.57
1:G:4180:ARG:HG2	1:G:4180:ARG:HH11	1.69	0.57
1:G:4984:ASN:OD1	1:G:4987:ASN:ND2	2.38	0.57
1:A:161:GLU:CD	1:A:164:ARG:NH2	2.58	0.57
1:A:3984:ARG:CD	1:G:161:GLU:HG3	2.35	0.57
1:A:4003:LEU:HB2	1:A:4013:LEU:HD12	1.86	0.57
1:A:4180:ARG:HG2	1:A:4180:ARG:HH11	1.69	0.57
1:C:1210:SER:HA	1:C:1213:PHE:CZ	2.40	0.57
1:C:3790:THR:HG22	1:C:3835:LEU:HG	1.86	0.57
1:E:3835:LEU:HD21	1:E:3880:PHE:HE2	1.70	0.57
1:E:4984:ASN:OD1	1:E:4987:ASN:ND2	2.38	0.57
1:G:559:GLY:O	1:G:563:VAL:HG23	2.05	0.57
1:G:1093:GLU:OE1	1:G:1201:HIS:ND1	2.35	0.57
1:G:4239:GLU:OE1	1:G:4675:LYS:HD2	2.05	0.57
1:A:468:LEU:HD21	1:A:472:ARG:HH21	1.69	0.57
1:A:1857:GLU:H	1:A:1857:GLU:CD	1.97	0.57
1:A:3790:THR:HG22	1:A:3835:LEU:HG	1.86	0.57
1:A:3837:GLN:HA	1:A:3837:GLN:HE21	1.70	0.57
1:A:4555:LEU:HD11	1:A:4656:LEU:HG	1.87	0.57
1:C:1848:LEU:CG	1:C:1854:PHE:CZ	2.88	0.57
1:C:3837:GLN:HA	1:C:3837:GLN:HE21	1.70	0.57
1:E:400:ALA:O	1:E:404:ILE:HG13	2.05	0.57
1:E:515:TRP:HH2	1:E:555:GLU:HG3	1.65	0.57
1:E:1148:VAL:HG11	1:E:1213:PHE:HD2	1.69	0.57
1:G:1277:TRP:HB2	1:G:1562:ILE:HG22	1.86	0.57
1:G:3835:LEU:HD21	1:G:3880:PHE:HE2	1.70	0.57
1:A:559:GLY:O	1:A:563:VAL:HG23	2.05	0.57
1:A:3905:THR:HG23	1:A:3907:THR:HG23	1.87	0.57
1:A:4938:ASP:OD2	1:C:4940:PHE:HB3	2.04	0.57
1:C:1705:GLY:C	1:C:1836:PHE:CE2	2.78	0.57
1:C:4003:LEU:HB2	1:C:4013:LEU:HD12	1.86	0.57
1:C:4044:MET:HA	1:C:4047:MET:HG2	1.87	0.57
1:C:4074:SER:HA	1:C:4077:PHE:HD2	1.69	0.57
1:E:1000:ARG:CG	1:E:1021:LEU:CD2	2.83	0.57
1:E:2547:ALA:O	1:E:2550:LEU:HG	2.04	0.57
1:G:839:LEU:HB3	1:G:1075:PHE:CE2	2.39	0.57
1:G:1652:GLU:O	1:G:1655:GLU:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1739:THR:O	1:G:1742:THR:OG1	2.17	0.57
1:G:4074:SER:HA	1:G:4077:PHE:HD2	1.69	0.57
1:A:595:ARG:HH22	1:A:1641:ILE:CG1	2.18	0.56
1:A:4181:ILE:HB	1:A:4988:TYR:CD1	2.40	0.56
1:A:4195:PHE:CE2	1:A:4987:ASN:HB3	2.40	0.56
1:A:4687:TYR:OH	1:A:4702:ASP:CB	2.52	0.56
1:C:400:ALA:O	1:C:404:ILE:HG13	2.05	0.56
1:C:1277:TRP:HB2	1:C:1562:ILE:HG22	1.86	0.56
1:E:1544:PRO:O	1:E:1545:ASN:HB3	2.04	0.56
1:E:2340:PHE:HB2	1:E:2435:ARG:HD3	1.87	0.56
1:G:554:LEU:HD11	1:G:593:HIS:HE1	0.75	0.56
1:G:750:LEU:O	1:G:751:SER:OG	2.23	0.56
1:G:4181:ILE:HB	1:G:4988:TYR:CD1	2.40	0.56
1:G:4957:LYS:HA	1:G:4964:GLY:HA2	1.87	0.56
1:A:125:ARG:CB	1:A:134:ASP:CG	2.53	0.56
1:A:125:ARG:HD2	1:A:134:ASP:OD2	2.02	0.56
1:A:167:ASP:CG	1:C:384:MET:CE	2.73	0.56
1:A:400:ALA:O	1:A:404:ILE:HG13	2.05	0.56
1:A:1148:VAL:HG11	1:A:1213:PHE:HD2	1.69	0.56
1:A:1210:SER:HA	1:A:1213:PHE:CZ	2.40	0.56
1:A:1561:VAL:HG13	1:A:1562:ILE:HG22	1.88	0.56
1:A:1708:ARG:CZ	1:A:1712:TYR:HE2	2.17	0.56
1:C:161:GLU:CD	1:C:164:ARG:NH2	2.58	0.56
1:C:595:ARG:HH22	1:C:1641:ILE:CG1	2.18	0.56
1:C:1000:ARG:CG	1:C:1021:LEU:CD2	2.83	0.56
1:C:1000:ARG:CG	1:C:1021:LEU:HD22	2.35	0.56
1:C:2212:VAL:HG21	1:C:2256:TYR:CE1	2.40	0.56
1:C:2547:ALA:O	1:C:2550:LEU:HG	2.04	0.56
1:C:4239:GLU:OE1	1:C:4675:LYS:HD2	2.05	0.56
1:E:161:GLU:OE1	1:E:164:ARG:NH2	2.38	0.56
1:E:3927:GLN:OE1	1:E:3988:ALA:HA	2.06	0.56
1:G:520:ASN:HB2	1:G:556:ALA:CB	2.35	0.56
1:G:647:ASN:HB2	1:G:822:ARG:H	1.70	0.56
1:G:1613:LEU:HB3	1:G:1616:GLU:HB3	1.87	0.56
1:G:1838:PHE:O	1:G:1841:VAL:N	2.37	0.56
1:G:1848:LEU:CG	1:G:1854:PHE:CZ	2.88	0.56
1:G:3837:GLN:HA	1:G:3837:GLN:HE21	1.70	0.56
1:A:554:LEU:HD11	1:A:593:HIS:HE1	0.75	0.56
1:A:1965:TYR:CE1	1:A:1969:LEU:CB	2.85	0.56
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.04	0.56
1:A:3835:LEU:HD21	1:A:3880:PHE:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4239:GLU:OE1	1:A:4675:LYS:HD2	2.05	0.56
1:A:4712:PRO:HB2	1:A:4718:LYS:HD2	1.88	0.56
1:C:35:LEU:HD21	1:C:189:LEU:HD12	1.88	0.56
1:C:276:TRP:CD1	1:C:338:GLU:OE1	2.58	0.56
1:C:520:ASN:HB2	1:C:556:ALA:CB	2.35	0.56
1:C:750:LEU:O	1:C:751:SER:OG	2.23	0.56
1:C:1613:LEU:HB3	1:C:1616:GLU:HB3	1.87	0.56
1:C:1965:TYR:CE1	1:C:1969:LEU:CB	2.85	0.56
1:C:4712:PRO:HB2	1:C:4718:LYS:HD2	1.88	0.56
1:C:4957:LYS:HA	1:C:4964:GLY:HA2	1.87	0.56
1:E:61:ASP:OD2	1:E:402:ARG:NH2	2.38	0.56
1:E:161:GLU:CD	1:E:164:ARG:NH2	2.58	0.56
1:E:276:TRP:CD1	1:E:338:GLU:OE1	2.58	0.56
1:E:468:LEU:O	1:E:472:ARG:HG2	2.05	0.56
1:E:495:ASN:ND2	1:E:523:TYR:OH	2.39	0.56
1:E:637:LEU:HD23	1:E:1693:GLN:HA	1.87	0.56
1:E:755:ILE:HB	1:E:768:PHE:HB2	1.86	0.56
1:E:1000:ARG:CG	1:E:1021:LEU:HD22	2.35	0.56
1:E:1561:VAL:HG13	1:E:1562:ILE:HG22	1.88	0.56
1:E:1763:PRO:CD	1:E:1863:LEU:CD1	2.57	0.56
1:E:3794:VAL:O	1:E:3797:THR:OG1	2.18	0.56
1:E:3835:LEU:HD21	1:E:3880:PHE:CE2	2.39	0.56
1:G:1561:VAL:HG13	1:G:1562:ILE:HG22	1.88	0.56
1:G:2340:PHE:HB2	1:G:2435:ARG:HD3	1.87	0.56
1:A:22:LEU:HD12	1:A:37:LEU:HD23	1.88	0.56
1:A:49:LEU:CD1	1:A:189:LEU:CA	2.84	0.56
1:A:495:ASN:ND2	1:A:523:TYR:OH	2.39	0.56
1:A:520:ASN:HB2	1:A:556:ALA:CB	2.35	0.56
1:A:1000:ARG:CG	1:A:1021:LEU:CD2	2.83	0.56
1:A:2465:UNK:O	1:A:2467:UNK:N	2.37	0.56
1:C:167:ASP:CG	1:E:384:MET:CE	2.73	0.56
1:C:1148:VAL:HG11	1:C:1213:PHE:HD2	1.69	0.56
1:C:3835:LEU:HD21	1:C:3880:PHE:HE2	1.70	0.56
1:C:4030:LEU:HG	1:C:4040:ILE:HD11	1.88	0.56
1:C:4032:GLU:HB2	1:C:5006:GLN:CD	2.26	0.56
1:E:35:LEU:HD21	1:E:189:LEU:HD12	1.88	0.56
1:E:520:ASN:HB2	1:E:556:ALA:CB	2.35	0.56
1:E:1291:LEU:HB3	1:E:1550:PRO:HG2	1.88	0.56
1:E:1944:GLU:HA	1:E:2123:LEU:HD21	1.88	0.56
1:E:4555:LEU:HD11	1:E:4656:LEU:HG	1.87	0.56
1:E:4677:LEU:HD22	1:E:4711:PHE:CZ	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:49:LEU:CD1	1:G:189:LEU:CA	2.84	0.56
1:G:3790:THR:HG22	1:G:3835:LEU:HG	1.86	0.56
1:A:220:LEU:HD11	1:A:390:LEU:HD22	1.88	0.56
1:A:4032:GLU:HB2	1:A:5006:GLN:CD	2.26	0.56
1:A:4044:MET:HA	1:A:4047:MET:HG2	1.87	0.56
1:C:22:LEU:HD12	1:C:37:LEU:HD23	1.88	0.56
1:C:468:LEU:O	1:C:472:ARG:HG2	2.05	0.56
1:C:559:GLY:O	1:C:563:VAL:HG23	2.05	0.56
1:C:721:LEU:HD21	1:C:1474:VAL:CG1	2.35	0.56
1:E:559:GLY:O	1:E:563:VAL:HG23	2.05	0.56
1:E:4181:ILE:HB	1:E:4988:TYR:CD1	2.40	0.56
1:E:4712:PRO:HB2	1:E:4718:LYS:HD2	1.88	0.56
1:G:276:TRP:CD1	1:G:338:GLU:OE1	2.58	0.56
1:G:468:LEU:HD21	1:G:472:ARG:HH21	1.69	0.56
1:G:1000:ARG:CG	1:G:1021:LEU:CD2	2.83	0.56
1:C:646:PRO:HB2	1:C:793:LEU:CD1	2.26	0.56
1:C:721:LEU:HD23	1:C:767:VAL:HG11	1.79	0.56
1:C:2128:TYR:OH	1:C:3676:ASP:OD2	2.24	0.56
1:C:2453:ILE:HA	1:C:2456:ILE:HG22	1.87	0.56
1:E:527:ALA:O	1:E:531:ARG:HG3	2.06	0.56
1:E:721:LEU:HD21	1:E:1474:VAL:CG1	2.35	0.56
1:E:4032:GLU:HB2	1:E:5006:GLN:CD	2.26	0.56
1:G:161:GLU:CD	1:G:164:ARG:NH2	2.58	0.56
1:G:220:LEU:HD11	1:G:390:LEU:HD22	1.88	0.56
1:G:1018:ASN:HB3	1:G:1021:LEU:CG	2.36	0.56
1:G:1519:LEU:HG	1:G:1520:VAL:HG23	1.88	0.56
1:G:2196:ASN:OD1	1:G:2245:GLN:NE2	2.39	0.56
1:G:2822:THR:OG1	1:G:2938:THR:OG1	2.24	0.56
1:G:4712:PRO:HB2	1:G:4718:LYS:HD2	1.88	0.56
1:A:276:TRP:CD1	1:A:338:GLU:OE1	2.58	0.56
1:A:468:LEU:O	1:A:472:ARG:HG2	2.05	0.56
1:A:647:ASN:HB2	1:A:822:ARG:H	1.70	0.56
1:A:4940:PHE:HB3	1:G:4938:ASP:OD2	2.04	0.56
1:C:161:GLU:OE1	1:C:164:ARG:NH2	2.38	0.56
1:C:647:ASN:HB2	1:C:822:ARG:H	1.70	0.56
1:C:2350:ALA:HB1	1:C:2436:CYS:HB2	1.87	0.56
1:C:3844:LEU:HD11	1:C:3936:TYR:HB2	1.88	0.56
1:C:4687:TYR:OH	1:C:4702:ASP:CB	2.52	0.56
1:E:2128:TYR:OH	1:E:3676:ASP:OD2	2.24	0.56
1:E:4044:MET:HA	1:E:4047:MET:HG2	1.87	0.56
1:G:61:ASP:OD2	1:G:402:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1210:SER:HA	1:G:1213:PHE:CZ	2.40	0.56
1:G:3885:PHE:HE1	1:G:3919:THR:HG1	1.54	0.56
1:G:3927:GLN:OE1	1:G:3988:ALA:HA	2.06	0.56
1:G:4555:LEU:HD11	1:G:4656:LEU:HG	1.87	0.56
1:G:4687:TYR:OH	1:G:4702:ASP:CB	2.52	0.56
1:A:527:ALA:O	1:A:531:ARG:HG3	2.06	0.56
1:A:1087:ARG:NH1	1:A:1221:GLU:O	2.36	0.56
1:A:2350:ALA:HB1	1:A:2436:CYS:HB2	1.87	0.56
1:A:3927:GLN:OE1	1:A:3988:ALA:HA	2.06	0.56
1:C:111:HIS:CD2	1:C:113:HIS:HB3	2.41	0.56
1:C:274:LEU:HD12	1:C:278:GLN:HE21	1.71	0.56
1:C:4938:ASP:OD2	1:E:4940:PHE:HB3	2.04	0.56
1:E:111:HIS:CD2	1:E:113:HIS:HB3	2.41	0.56
1:E:806:PRO:O	1:E:808:TYR:HD1	1.89	0.56
1:E:1848:LEU:CG	1:E:1854:PHE:CZ	2.88	0.56
1:E:4010:ILE:O	1:E:4011:GLU:C	2.42	0.56
1:G:400:ALA:O	1:G:404:ILE:HG13	2.05	0.56
1:G:411:TYR:HB2	1:G:486:LEU:HD21	1.87	0.56
1:G:468:LEU:O	1:G:472:ARG:HG2	2.05	0.56
1:A:161:GLU:OE1	1:A:164:ARG:NH2	2.38	0.56
1:A:274:LEU:HD12	1:A:278:GLN:HE21	1.71	0.56
1:A:465:GLN:NE2	1:A:3712:GLU:OE1	2.39	0.56
1:A:2212:VAL:HG21	1:A:2256:TYR:CE1	2.40	0.56
1:A:3674:ILE:HD11	1:A:3728:ILE:HG22	1.88	0.56
1:A:4677:LEU:HD22	1:A:4711:PHE:CZ	2.41	0.56
1:C:527:ALA:O	1:C:531:ARG:HG3	2.06	0.56
1:C:1561:VAL:HG13	1:C:1562:ILE:HG22	1.88	0.56
1:C:1937:LEU:HD12	1:C:2116:LEU:HB2	1.88	0.56
1:C:2196:ASN:OD1	1:C:2245:GLN:NE2	2.39	0.56
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.04	0.56
2:D:26:TYR:C	2:D:39:SER:OG	2.45	0.56
1:E:274:LEU:HD12	1:E:278:GLN:HE21	1.71	0.56
1:E:595:ARG:HH22	1:E:1641:ILE:CG1	2.18	0.56
1:G:465:GLN:NE2	1:G:3712:GLU:OE1	2.39	0.56
1:G:495:ASN:ND2	1:G:523:TYR:OH	2.39	0.56
1:G:3678:SER:HA	1:G:3773:ARG:HH12	1.71	0.56
1:A:411:TYR:HB2	1:A:486:LEU:HD21	1.87	0.56
1:A:1519:LEU:HG	1:A:1520:VAL:HG23	1.88	0.56
1:A:2340:PHE:HB2	1:A:2435:ARG:HD3	1.87	0.56
1:A:2453:ILE:HA	1:A:2456:ILE:HG22	1.87	0.56
1:A:3678:SER:HA	1:A:3773:ARG:HH12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:ARG:NH2	1:C:1641:ILE:CD1	2.69	0.56
1:C:637:LEU:HD23	1:C:1693:GLN:HA	1.87	0.56
1:C:3927:GLN:OE1	1:C:3988:ALA:HA	2.06	0.56
1:E:468:LEU:HD21	1:E:472:ARG:HH21	1.69	0.56
1:E:683:ARG:CZ	1:E:722:TRP:CG	2.89	0.56
1:E:750:LEU:O	1:E:751:SER:OG	2.23	0.56
1:E:1277:TRP:HB2	1:E:1562:ILE:HG22	1.86	0.56
1:E:1705:GLY:CA	1:E:1836:PHE:HD2	2.19	0.56
1:E:1766:GLY:N	1:E:1856:ASP:OD1	2.39	0.56
1:E:3678:SER:HA	1:E:3773:ARG:HH12	1.71	0.56
1:E:3844:LEU:HD11	1:E:3936:TYR:HB2	1.88	0.56
1:E:3968:TYR:O	1:E:3976:ASN:ND2	2.39	0.56
1:G:527:ALA:O	1:G:531:ARG:HG3	2.06	0.56
1:G:644:ILE:HD12	1:G:783:PHE:CE1	2.41	0.56
1:G:3905:THR:HG23	1:G:3907:THR:HG23	1.87	0.56
1:G:4677:LEU:HD22	1:G:4711:PHE:CZ	2.41	0.56
1:A:442:ILE:HD11	1:A:514:SER:HB3	1.88	0.55
1:A:595:ARG:NH2	1:A:1641:ILE:CD1	2.69	0.55
1:A:669:ASP:HB2	1:A:788:LYS:HG3	1.88	0.55
1:A:683:ARG:CZ	1:A:722:TRP:CG	2.89	0.55
1:A:1000:ARG:CG	1:A:1021:LEU:HD22	2.35	0.55
1:A:2256:TYR:CD1	1:A:2260:ASN:ND2	2.63	0.55
1:A:3968:TYR:O	1:A:3976:ASN:ND2	2.39	0.55
1:C:61:ASP:OD2	1:C:402:ARG:NH2	2.38	0.55
1:C:671:VAL:HG22	1:C:787:VAL:HG13	1.88	0.55
1:C:1544:PRO:O	1:C:1545:ASN:HB3	2.04	0.55
1:C:3674:ILE:HD11	1:C:3728:ILE:HG22	1.88	0.55
1:C:4677:LEU:HD22	1:C:4711:PHE:CZ	2.41	0.55
1:E:634:GLN:HB3	1:E:1640:HIS:CE1	2.41	0.55
1:E:2212:VAL:HG21	1:E:2256:TYR:CE1	2.40	0.55
1:G:22:LEU:HD12	1:G:37:LEU:HD23	1.88	0.55
1:G:161:GLU:OE1	1:G:164:ARG:NH2	2.38	0.55
1:G:1291:LEU:HB3	1:G:1550:PRO:HG2	1.88	0.55
1:A:35:LEU:HD21	1:A:189:LEU:HD12	1.88	0.55
1:A:1613:LEU:HB3	1:A:1616:GLU:HB3	1.87	0.55
1:A:3906:GLN:HE21	1:A:3909:ASN:ND2	2.05	0.55
1:A:4580:TYR:CD2	1:A:4807:PHE:CZ	2.95	0.55
1:C:495:ASN:ND2	1:C:523:TYR:OH	2.39	0.55
1:C:2882:TYR:HB2	1:C:2919:ASP:OD2	2.06	0.55
1:E:595:ARG:NH2	1:E:1641:ILE:CD1	2.69	0.55
1:E:1293:LEU:HD11	1:E:1598:GLN:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3790:THR:HG22	1:E:3835:LEU:HG	1.86	0.55
1:G:595:ARG:HH22	1:G:1641:ILE:CG1	2.18	0.55
1:G:1000:ARG:CG	1:G:1021:LEU:HD22	2.35	0.55
1:G:2929:PHE:O	1:G:2933:ASN:ND2	2.34	0.55
1:G:3906:GLN:HE21	1:G:3909:ASN:ND2	2.05	0.55
1:A:111:HIS:CD2	1:A:113:HIS:HB3	2.41	0.55
1:A:2134:LEU:O	1:A:2138:LEU:HG	2.06	0.55
1:A:2196:ASN:OD1	1:A:2245:GLN:NE2	2.39	0.55
1:A:3970:GLN:HE22	1:A:4029:SER:HB2	1.71	0.55
1:C:889:GLN:HB3	1:C:891:TRP:HD1	1.71	0.55
1:C:4195:PHE:CE2	1:C:4987:ASN:HB3	2.40	0.55
1:E:644:ILE:HD12	1:E:783:PHE:CE1	2.41	0.55
1:E:680:THR:CG2	1:E:784:SER:O	2.55	0.55
1:E:889:GLN:HB3	1:E:891:TRP:HD1	1.71	0.55
1:E:2256:TYR:CD1	1:E:2260:ASN:ND2	2.63	0.55
1:E:4580:TYR:CD2	1:E:4807:PHE:CZ	2.95	0.55
1:G:274:LEU:HD12	1:G:278:GLN:HE21	1.71	0.55
1:G:637:LEU:HD23	1:G:1693:GLN:HA	1.87	0.55
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.06	0.55
1:G:2212:VAL:HG21	1:G:2256:TYR:CE1	2.40	0.55
1:G:4030:LEU:HG	1:G:4040:ILE:HD11	1.88	0.55
1:G:4580:TYR:CD2	1:G:4807:PHE:CZ	2.95	0.55
1:A:806:PRO:O	1:A:808:TYR:HD1	1.89	0.55
1:A:2128:TYR:OH	1:A:3676:ASP:OD2	2.24	0.55
1:C:125:ARG:HD2	1:C:134:ASP:OD2	2.02	0.55
1:C:411:TYR:HB2	1:C:486:LEU:HD21	1.87	0.55
1:C:644:ILE:HD12	1:C:783:PHE:CE1	2.41	0.55
1:C:680:THR:CG2	1:C:784:SER:O	2.55	0.55
1:C:683:ARG:CZ	1:C:722:TRP:CG	2.89	0.55
1:C:1087:ARG:NH1	1:C:1221:GLU:O	2.36	0.55
1:C:1122:TYR:CZ	1:C:1133:HIS:CE1	2.88	0.55
1:C:1766:GLY:N	1:C:1856:ASP:OD1	2.39	0.55
1:E:22:LEU:HD12	1:E:37:LEU:HD23	1.88	0.55
1:E:647:ASN:HB2	1:E:822:ARG:H	1.70	0.55
1:E:1000:ARG:HA	1:E:1003:GLN:HB3	1.88	0.55
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.06	0.55
1:E:4710:SER:O	1:E:4713:SER:OG	2.16	0.55
2:F:26:TYR:C	2:F:39:SER:OG	2.45	0.55
1:G:1705:GLY:CA	1:G:1836:PHE:HD2	2.19	0.55
1:G:2453:ILE:HA	1:G:2456:ILE:HG22	1.87	0.55
1:A:671:VAL:HG22	1:A:787:VAL:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4195:PHE:CE1	1:A:4197:ILE:HG12	2.30	0.55
1:C:465:GLN:NE2	1:C:3712:GLU:OE1	2.39	0.55
1:C:722:TRP:NE1	1:C:727:ALA:HB2	2.22	0.55
1:C:1743:ARG:HD2	1:C:1963:GLU:HG3	1.89	0.55
1:C:2340:PHE:HB2	1:C:2435:ARG:HD3	1.87	0.55
1:E:49:LEU:CD1	1:E:189:LEU:CA	2.84	0.55
1:E:411:TYR:HB2	1:E:486:LEU:HD21	1.87	0.55
1:E:3674:ILE:HD11	1:E:3728:ILE:HG22	1.88	0.55
1:E:3840:SER:O	1:E:3841:VAL:HG23	2.07	0.55
1:E:4957:LYS:HA	1:E:4964:GLY:HA2	1.87	0.55
1:G:111:HIS:CD2	1:G:113:HIS:HB3	2.41	0.55
1:G:1944:GLU:HA	1:G:2123:LEU:HD21	1.88	0.55
1:G:4044:MET:HA	1:G:4047:MET:HG2	1.87	0.55
1:G:4181:ILE:HD12	1:G:4991:PHE:CD2	2.38	0.55
1:A:680:THR:CG2	1:A:784:SER:O	2.55	0.55
1:C:1433:TYR:CD1	1:C:1583:GLU:HB2	2.42	0.55
1:C:1944:GLU:HA	1:C:2123:LEU:HD21	1.88	0.55
1:C:3670:GLU:CG	1:C:3728:ILE:HG12	2.37	0.55
1:C:3840:SER:O	1:C:3841:VAL:HG23	2.07	0.55
1:E:45:ARG:NH2	1:E:116:MET:HE1	2.17	0.55
1:E:1018:ASN:HB3	1:E:1021:LEU:CG	2.36	0.55
1:E:2196:ASN:OD1	1:E:2245:GLN:NE2	2.39	0.55
1:E:2453:ILE:HA	1:E:2456:ILE:HG22	1.87	0.55
1:G:595:ARG:NH2	1:G:1641:ILE:CD1	2.69	0.55
1:G:683:ARG:CZ	1:G:722:TRP:CG	2.89	0.55
1:G:1433:TYR:CD1	1:G:1583:GLU:HB2	2.42	0.55
1:G:3840:SER:O	1:G:3841:VAL:HG23	2.07	0.55
1:A:644:ILE:HD12	1:A:783:PHE:CE1	2.41	0.55
1:A:3841:VAL:HG12	1:A:3842:LEU:H	1.68	0.55
1:A:4030:LEU:HG	1:A:4040:ILE:HD11	1.88	0.55
2:B:26:TYR:C	2:B:39:SER:OG	2.45	0.55
1:C:683:ARG:HB2	1:C:782:SER:OG	2.07	0.55
1:C:1825:HIS:ND1	1:C:1825:HIS:O	2.40	0.55
1:C:1862:ILE:O	1:C:1865:MET:HB3	2.07	0.55
1:C:3968:TYR:O	1:C:3976:ASN:ND2	2.39	0.55
1:E:1519:LEU:HG	1:E:1520:VAL:HG23	1.88	0.55
1:E:3906:GLN:HE21	1:E:3909:ASN:ND2	2.05	0.55
1:E:4030:LEU:HG	1:E:4040:ILE:HD11	1.88	0.55
1:G:2350:ALA:HB1	1:G:2436:CYS:HB2	1.87	0.55
1:A:1743:ARG:HD2	1:A:1963:GLU:HG3	1.89	0.55
1:A:1825:HIS:ND1	1:A:1825:HIS:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2230:THR:O	1:A:2234:ARG:HG2	2.07	0.55
1:C:49:LEU:CD1	1:C:189:LEU:CA	2.84	0.55
1:C:546:TRP:O	1:C:550:LYS:HG2	2.07	0.55
1:C:1291:LEU:HB3	1:C:1550:PRO:HG2	1.88	0.55
1:C:4181:ILE:HD12	1:C:4991:PHE:CD2	2.38	0.55
1:C:4580:TYR:CD2	1:C:4807:PHE:CZ	2.95	0.55
1:E:1076:ARG:O	1:E:1237:TRP:N	2.40	0.55
1:E:1479:GLU:OE1	1:E:1480:GLN:HG3	2.07	0.55
1:E:4195:PHE:CE1	1:E:4197:ILE:HG12	2.30	0.55
1:G:634:GLN:HB3	1:G:1640:HIS:CE1	2.41	0.55
1:G:806:PRO:O	1:G:808:TYR:HD1	1.89	0.55
1:G:3844:LEU:HD11	1:G:3936:TYR:HB2	1.88	0.55
1:G:4849:TYR:HA	1:G:4852:THR:HG22	1.89	0.55
1:A:1000:ARG:HA	1:A:1003:GLN:HB3	1.88	0.55
1:A:2551:ASN:O	1:A:2554:LEU:HG	2.07	0.55
1:A:3670:GLU:CG	1:A:3728:ILE:HG12	2.37	0.55
1:A:4904:PRO:HG2	1:A:4910:GLU:CG	2.28	0.55
1:A:4957:LYS:HA	1:A:4964:GLY:HA2	1.87	0.55
1:C:634:GLN:HB3	1:C:1640:HIS:CE1	2.41	0.55
1:C:3678:SER:HA	1:C:3773:ARG:HH12	1.71	0.55
1:C:3885:PHE:HE1	1:C:3919:THR:HG1	1.55	0.55
1:C:3906:GLN:HE21	1:C:3909:ASN:ND2	2.05	0.55
1:E:442:ILE:HD11	1:E:514:SER:HB3	1.88	0.55
1:E:722:TRP:NE1	1:E:727:ALA:HB2	2.22	0.55
1:E:1433:TYR:CD1	1:E:1583:GLU:HB2	2.42	0.55
1:E:2551:ASN:O	1:E:2554:LEU:HG	2.07	0.55
1:G:35:LEU:HD21	1:G:189:LEU:HD12	1.88	0.55
1:G:680:THR:CG2	1:G:784:SER:O	2.55	0.55
1:G:1766:GLY:N	1:G:1856:ASP:OD1	2.39	0.55
1:G:3674:ILE:HD11	1:G:3728:ILE:HG22	1.88	0.55
2:H:26:TYR:C	2:H:39:SER:OG	2.45	0.55
1:A:546:TRP:O	1:A:550:LYS:HG2	2.07	0.55
1:A:663:TYR:HB3	1:A:808:TYR:CD2	2.42	0.55
1:A:1743:ARG:CB	1:A:1963:GLU:HG2	2.32	0.55
1:A:3701:LEU:HD11	1:A:3725:TYR:CE1	2.42	0.55
1:A:3840:SER:O	1:A:3841:VAL:HG23	2.07	0.55
1:A:3844:LEU:HD11	1:A:3936:TYR:HB2	1.88	0.55
1:C:220:LEU:HD11	1:C:390:LEU:HD22	1.88	0.55
1:C:681:HIS:CA	1:C:716:PHE:HD1	2.06	0.55
1:C:1078:GLU:OE1	1:C:1235:THR:OG1	2.25	0.55
1:C:1479:GLU:OE1	1:C:1480:GLN:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:220:LEU:HD11	1:E:390:LEU:HD22	1.88	0.55
1:E:663:TYR:HB3	1:E:808:TYR:CD2	2.42	0.55
1:E:1862:ILE:O	1:E:1865:MET:HB3	2.07	0.55
1:G:722:TRP:NE1	1:G:727:ALA:HB2	2.22	0.55
1:G:1132:TRP:NE1	1:G:1136:SER:CA	2.70	0.55
1:G:1743:ARG:HD2	1:G:1963:GLU:HG3	1.89	0.55
1:G:2551:ASN:O	1:G:2554:LEU:HG	2.07	0.55
1:G:3963:ASN:O	1:G:3966:THR:OG1	2.15	0.55
1:A:637:LEU:HD23	1:A:1693:GLN:HA	1.87	0.54
1:A:889:GLN:HB3	1:A:891:TRP:HD1	1.71	0.54
1:A:1291:LEU:HB3	1:A:1550:PRO:HG2	1.88	0.54
1:A:1433:TYR:CD1	1:A:1583:GLU:HB2	2.42	0.54
1:A:1766:GLY:N	1:A:1856:ASP:OD1	2.39	0.54
1:A:1944:GLU:HA	1:A:2123:LEU:HD21	1.88	0.54
1:A:3897:ASN:O	1:A:3901:ASN:ND2	2.40	0.54
1:A:4688:ILE:HG22	1:A:4732:PHE:CE2	2.42	0.54
1:A:4849:TYR:HA	1:A:4852:THR:HG22	1.89	0.54
1:C:1000:ARG:HA	1:C:1003:GLN:HB3	1.88	0.54
1:C:1519:LEU:HG	1:C:1520:VAL:HG23	1.88	0.54
1:C:1639:LEU:HD21	1:C:1653:LEU:HD13	1.90	0.54
1:C:2230:THR:O	1:C:2234:ARG:HG2	2.07	0.54
1:C:3970:GLN:HE22	1:C:4029:SER:HB2	1.71	0.54
1:E:671:VAL:HG22	1:E:787:VAL:HG13	1.88	0.54
1:E:1089:TYR:OH	1:E:1213:PHE:HB2	2.07	0.54
1:E:4195:PHE:CE2	1:E:4987:ASN:HB3	2.40	0.54
1:E:4688:ILE:HG22	1:E:4732:PHE:CE2	2.42	0.54
1:G:42:PHE:HE2	1:G:399:GLN:HE21	1.55	0.54
1:G:716:PHE:HE2	1:G:717:ASP:HB3	1.61	0.54
1:G:1000:ARG:HA	1:G:1003:GLN:HB3	1.88	0.54
1:G:3669:PHE:CZ	1:G:3670:GLU:OE1	2.61	0.54
1:A:634:GLN:HB3	1:A:1640:HIS:CE1	2.41	0.54
1:A:828:GLU:HG3	1:A:830:ARG:H	1.72	0.54
1:A:1089:TYR:OH	1:A:1213:PHE:HB2	2.07	0.54
1:A:1639:LEU:HD21	1:A:1653:LEU:HD13	1.90	0.54
1:C:442:ILE:HD11	1:C:514:SER:HB3	1.88	0.54
1:C:828:GLU:HG3	1:C:830:ARG:H	1.72	0.54
1:C:4910:GLU:O	1:C:4914:VAL:HG23	2.08	0.54
1:E:554:LEU:HD11	1:E:593:HIS:HE1	0.75	0.54
1:E:1825:HIS:ND1	1:E:1825:HIS:O	2.40	0.54
1:E:4708:THR:HG22	1:E:4710:SER:N	2.22	0.54
1:G:2128:TYR:OH	1:G:3676:ASP:OD2	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3897:ASN:O	1:G:3901:ASN:ND2	2.40	0.54
1:G:4032:GLU:HB2	1:G:5006:GLN:CD	2.26	0.54
1:G:4910:GLU:O	1:G:4914:VAL:HG23	2.08	0.54
1:A:61:ASP:OD2	1:A:402:ARG:NH2	2.38	0.54
1:A:1937:LEU:HD12	1:A:2116:LEU:HB2	1.88	0.54
1:C:806:PRO:O	1:C:808:TYR:HD1	1.89	0.54
1:C:1737:PRO:HG2	1:C:1742:THR:HG21	1.89	0.54
1:E:465:GLN:NE2	1:E:3712:GLU:OE1	2.39	0.54
1:E:3951:PHE:CD2	1:E:4012:LEU:HD21	2.43	0.54
1:E:4732:PHE:HE1	1:E:4736:ARG:HD2	1.73	0.54
1:E:4849:TYR:HA	1:E:4852:THR:HG22	1.89	0.54
1:G:889:GLN:HB3	1:G:891:TRP:HD1	1.71	0.54
1:G:1293:LEU:HD11	1:G:1598:GLN:HG2	1.89	0.54
1:G:3968:TYR:O	1:G:3976:ASN:ND2	2.39	0.54
1:A:189:LEU:HD23	1:A:189:LEU:N	2.23	0.54
1:A:1815:LEU:HD11	1:A:1845:VAL:HG21	1.89	0.54
1:A:3969:ILE:HD13	1:A:4030:LEU:HD13	1.90	0.54
1:E:16:THR:HB	1:E:98:HIS:HA	1.90	0.54
1:E:232:THR:HG21	1:E:252:VAL:HG21	1.89	0.54
1:E:1743:ARG:HD2	1:E:1963:GLU:HG3	1.89	0.54
1:E:1937:LEU:HD12	1:E:2116:LEU:HB2	1.88	0.54
1:E:1965:TYR:CE1	1:E:1969:LEU:CB	2.85	0.54
1:G:210:GLU:HG2	1:G:273:HIS:HE1	1.73	0.54
1:G:596:ASN:HB2	1:G:599:VAL:CG2	2.38	0.54
1:G:669:ASP:HB2	1:G:788:LYS:HG3	1.88	0.54
1:G:3970:GLN:HE22	1:G:4029:SER:HB2	1.71	0.54
1:G:4235:VAL:HG21	1:G:5019:TRP:CZ3	2.43	0.54
1:A:42:PHE:HE2	1:A:399:GLN:HE21	1.55	0.54
1:A:827:LYS:O	1:A:828:GLU:HB3	2.08	0.54
1:A:1293:LEU:HD11	1:A:1598:GLN:HG2	1.89	0.54
1:A:1862:ILE:O	1:A:1865:MET:HB3	2.07	0.54
1:A:4235:VAL:HG21	1:A:5019:TRP:CZ3	2.43	0.54
1:C:16:THR:HB	1:C:98:HIS:HA	1.90	0.54
1:C:554:LEU:HD11	1:C:593:HIS:HE1	0.75	0.54
1:C:596:ASN:HB2	1:C:599:VAL:CG2	2.38	0.54
1:C:904:HIS:CG	1:C:905:PRO:HD2	2.43	0.54
1:C:1089:TYR:OH	1:C:1213:PHE:HB2	2.07	0.54
1:C:1815:LEU:HD11	1:C:1845:VAL:HG21	1.89	0.54
1:C:2149:VAL:O	1:C:2152:THR:OG1	2.19	0.54
1:C:3701:LEU:HD11	1:C:3725:TYR:CE1	2.42	0.54
1:E:683:ARG:HB2	1:E:782:SER:OG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1211:LEU:HD23	1:E:1212:ARG:HG3	1.90	0.54
1:E:1737:PRO:HG2	1:E:1742:THR:HG21	1.89	0.54
1:E:3669:PHE:CZ	1:E:3670:GLU:OE1	2.61	0.54
1:E:3670:GLU:CG	1:E:3728:ILE:HG12	2.37	0.54
1:G:442:ILE:HD11	1:G:514:SER:HB3	1.88	0.54
1:G:683:ARG:HB2	1:G:782:SER:OG	2.07	0.54
1:G:2882:TYR:HB2	1:G:2919:ASP:OD2	2.06	0.54
1:G:3951:PHE:CD2	1:G:4012:LEU:HD21	2.43	0.54
1:G:3970:GLN:HE21	1:G:3970:GLN:CA	2.09	0.54
1:G:4705:VAL:HG22	1:G:4711:PHE:HD1	1.73	0.54
1:A:683:ARG:HB2	1:A:782:SER:OG	2.07	0.54
1:A:1076:ARG:O	1:A:1237:TRP:N	2.40	0.54
1:A:1132:TRP:NE1	1:A:1136:SER:CA	2.70	0.54
1:A:3970:GLN:HE21	1:A:3970:GLN:CA	2.09	0.54
1:C:1132:TRP:NE1	1:C:1136:SER:CA	2.70	0.54
1:C:4688:ILE:HG22	1:C:4732:PHE:CE2	2.42	0.54
1:E:827:LYS:O	1:E:828:GLU:HB3	2.08	0.54
1:E:904:HIS:CG	1:E:905:PRO:HD2	2.43	0.54
1:E:4083:ASP:O	1:E:4084:PRO:CB	2.56	0.54
1:E:4910:GLU:O	1:E:4914:VAL:HG23	2.08	0.54
1:G:904:HIS:CG	1:G:905:PRO:HD2	2.43	0.54
1:G:1825:HIS:ND1	1:G:1825:HIS:O	2.40	0.54
1:G:1862:ILE:O	1:G:1865:MET:HB3	2.07	0.54
1:G:3670:GLU:CG	1:G:3728:ILE:HG12	2.37	0.54
1:G:3701:LEU:HD11	1:G:3725:TYR:CE1	2.42	0.54
1:G:3936:TYR:O	1:G:3940:LYS:NZ	2.26	0.54
1:A:596:ASN:HB2	1:A:599:VAL:CG2	2.38	0.54
1:A:1211:LEU:HD23	1:A:1212:ARG:HG3	1.90	0.54
1:A:1712:TYR:O	1:A:1716:ILE:HG12	2.08	0.54
1:C:189:LEU:N	1:C:189:LEU:HD23	2.23	0.54
1:C:232:THR:HG21	1:C:252:VAL:HG21	1.89	0.54
1:C:716:PHE:HE2	1:C:717:ASP:HB3	1.61	0.54
1:C:1205:GLY:HA3	1:C:1227:ALA:HB3	1.90	0.54
1:E:113:HIS:CE1	1:E:402:ARG:HB3	2.43	0.54
1:E:600:LEU:CD2	1:E:1666:THR:HA	2.30	0.54
1:E:691:GLY:HA3	1:E:710:ASP:OD2	2.08	0.54
1:E:2145:SER:HB3	1:E:3647:HIS:CD2	2.43	0.54
1:E:2882:TYR:HB2	1:E:2919:ASP:OD2	2.06	0.54
1:E:3669:PHE:HD1	1:E:3670:GLU:N	1.85	0.54
1:E:3701:LEU:HD11	1:E:3725:TYR:CE1	2.42	0.54
1:E:4938:ASP:OD1	1:G:4944:ARG:NE	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:646:PRO:HB2	1:G:793:LEU:CD1	2.26	0.54
1:G:1076:ARG:O	1:G:1237:TRP:N	2.40	0.54
1:G:1089:TYR:OH	1:G:1213:PHE:HB2	2.07	0.54
1:A:16:THR:HB	1:A:98:HIS:HA	1.90	0.54
1:A:3951:PHE:CD2	1:A:4012:LEU:HD21	2.43	0.54
1:C:283:ARG:HG2	1:C:284:HIS:O	2.08	0.54
1:C:663:TYR:HB3	1:C:808:TYR:CD2	2.42	0.54
1:C:1076:ARG:O	1:C:1237:TRP:N	2.40	0.54
1:C:1127:HIS:CD2	1:C:1128:ARG:HG3	2.43	0.54
1:C:4705:VAL:HG22	1:C:4711:PHE:HD1	1.73	0.54
1:E:669:ASP:HB2	1:E:788:LYS:HG3	1.88	0.54
1:E:828:GLU:HG3	1:E:830:ARG:H	1.72	0.54
1:G:16:THR:HB	1:G:98:HIS:HA	1.90	0.54
1:G:546:TRP:O	1:G:550:LYS:HG2	2.07	0.54
1:G:591:ASP:O	1:G:1598:GLN:NE2	2.41	0.54
1:G:598:LYS:H	1:G:598:LYS:CD	2.00	0.54
1:G:663:TYR:HB3	1:G:808:TYR:CD2	2.42	0.54
1:G:671:VAL:HG22	1:G:787:VAL:HG13	1.88	0.54
1:G:1937:LEU:HD12	1:G:2116:LEU:HB2	1.88	0.54
1:G:2230:THR:O	1:G:2234:ARG:HG2	2.07	0.54
1:G:3969:ILE:HD13	1:G:4030:LEU:HD13	1.90	0.54
1:G:4888:TYR:O	1:G:4892:ARG:NH2	2.35	0.54
1:A:3669:PHE:CZ	1:A:3670:GLU:OE1	2.61	0.54
1:C:113:HIS:CE1	1:C:402:ARG:HB3	2.43	0.54
1:C:691:GLY:HA3	1:C:710:ASP:OD2	2.08	0.54
1:C:1018:ASN:HB3	1:C:1021:LEU:CG	2.36	0.54
1:C:1705:GLY:CA	1:C:1836:PHE:HD2	2.19	0.54
1:C:1712:TYR:O	1:C:1716:ILE:HG12	2.08	0.54
1:C:2134:LEU:O	1:C:2138:LEU:HG	2.06	0.54
1:E:596:ASN:HB2	1:E:599:VAL:CG2	2.38	0.54
1:E:1132:TRP:NE1	1:E:1136:SER:CA	2.70	0.54
1:E:2230:THR:O	1:E:2234:ARG:HG2	2.07	0.54
1:E:3885:PHE:HE1	1:E:3919:THR:HG1	1.56	0.54
1:G:1111:PRO:HB2	1:G:1607:ARG:HB3	1.90	0.54
1:G:1257:VAL:HA	1:G:1277:TRP:NE1	2.23	0.54
1:G:4732:PHE:HE1	1:G:4736:ARG:HD2	1.73	0.54
1:A:70:GLU:O	1:A:71:GLN:CG	2.40	0.54
1:A:113:HIS:CE1	1:A:402:ARG:HB3	2.43	0.54
1:A:283:ARG:HG2	1:A:284:HIS:O	2.08	0.54
1:A:1127:HIS:CD2	1:A:1128:ARG:HG3	2.43	0.54
1:A:1255:TYR:CZ	1:A:1287:LEU:HD11	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2822:THR:OG1	1:A:2938:THR:OG1	2.24	0.54
1:A:4181:ILE:HD12	1:A:4991:PHE:CD2	2.38	0.54
1:A:4708:THR:HG22	1:A:4710:SER:N	2.22	0.54
1:C:3951:PHE:CD2	1:C:4012:LEU:HD21	2.43	0.54
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.08	0.54
1:E:546:TRP:O	1:E:550:LYS:HG2	2.07	0.54
1:E:626:LEU:HB3	1:E:1688:HIS:CE1	2.43	0.54
1:E:1257:VAL:HA	1:E:1277:TRP:NE1	2.23	0.54
1:E:3897:ASN:O	1:E:3901:ASN:ND2	2.40	0.54
2:F:16:PRO:HG3	2:F:106:LEU:HD21	1.90	0.54
1:G:1712:TYR:O	1:G:1716:ILE:HG12	2.08	0.54
1:G:1743:ARG:CB	1:G:1963:GLU:HG2	2.32	0.54
1:G:4083:ASP:O	1:G:4084:PRO:CB	2.56	0.54
1:G:4962:GLY:O	1:G:4964:GLY:N	2.41	0.54
1:A:591:ASP:O	1:A:1598:GLN:NE2	2.41	0.53
1:A:1737:PRO:HG2	1:A:1742:THR:HG21	1.89	0.53
1:C:591:ASP:O	1:C:1598:GLN:NE2	2.41	0.53
1:C:827:LYS:O	1:C:828:GLU:HB3	2.08	0.53
1:C:915:GLU:HA	1:C:918:ARG:HB2	1.90	0.53
1:C:2112:GLN:O	1:C:2113:SER:OG	2.21	0.53
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.44	0.53
1:C:4849:TYR:HA	1:C:4852:THR:HG22	1.89	0.53
2:D:27:THR:HA	2:D:38:SER:HA	1.90	0.53
1:E:379:HIS:NE2	1:E:381:GLU:OE1	2.41	0.53
1:E:1639:LEU:HD21	1:E:1653:LEU:HD13	1.90	0.53
1:E:4849:TYR:O	1:E:4853:VAL:HG23	2.08	0.53
1:G:113:HIS:CE1	1:G:402:ARG:HB3	2.43	0.53
1:G:189:LEU:N	1:G:189:LEU:HD23	2.23	0.53
1:G:2126:ARG:HG3	1:G:2133:GLU:OE1	2.08	0.53
1:G:4195:PHE:CE2	1:G:4987:ASN:HB3	2.40	0.53
1:G:4688:ILE:HG22	1:G:4732:PHE:CE2	2.42	0.53
1:G:4708:THR:HG22	1:G:4710:SER:N	2.22	0.53
1:G:4849:TYR:O	1:G:4853:VAL:HG23	2.08	0.53
2:H:27:THR:HA	2:H:38:SER:HA	1.90	0.53
1:A:210:GLU:HG2	1:A:273:HIS:HE1	1.73	0.53
1:A:722:TRP:NE1	1:A:727:ALA:HB2	2.22	0.53
1:A:904:HIS:CG	1:A:905:PRO:HD2	2.43	0.53
1:A:1257:VAL:HA	1:A:1277:TRP:NE1	2.23	0.53
2:B:27:THR:HA	2:B:38:SER:HA	1.90	0.53
1:C:3669:PHE:CZ	1:C:3670:GLU:OE1	2.61	0.53
1:E:425:PRO:HA	1:E:506:TYR:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1127:HIS:CD2	1:E:1128:ARG:HG3	2.43	0.53
1:G:232:THR:HG21	1:G:252:VAL:HG21	1.89	0.53
1:G:379:HIS:NE2	1:G:381:GLU:OE1	2.41	0.53
1:G:533:ASN:HB2	1:G:536:ASN:ND2	2.23	0.53
1:G:1255:TYR:CZ	1:G:1287:LEU:HD11	2.43	0.53
1:G:1448:VAL:HG11	1:G:1554:VAL:HG22	1.85	0.53
1:G:1479:GLU:OE1	1:G:1480:GLN:HG3	2.07	0.53
1:G:1639:LEU:HD21	1:G:1653:LEU:HD13	1.90	0.53
1:G:1737:PRO:HG2	1:G:1742:THR:HG21	1.89	0.53
1:G:1815:LEU:HD11	1:G:1845:VAL:HG21	1.89	0.53
1:G:1965:TYR:CE1	1:G:1969:LEU:CB	2.85	0.53
1:G:2902:HIS:CG	1:G:2903:PRO:HD2	2.44	0.53
1:A:554:LEU:HD21	1:A:1597:VAL:CG2	2.33	0.53
1:A:1479:GLU:OE1	1:A:1480:GLN:HG3	2.07	0.53
1:A:1705:GLY:CA	1:A:1836:PHE:HD2	2.19	0.53
1:A:2902:HIS:CG	1:A:2903:PRO:HD2	2.44	0.53
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.44	0.53
1:A:4083:ASP:O	1:A:4084:PRO:CB	2.56	0.53
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.08	0.53
1:A:4910:GLU:O	1:A:4914:VAL:HG23	2.08	0.53
1:C:379:HIS:NE2	1:C:381:GLU:OE1	2.41	0.53
1:C:1293:LEU:HD11	1:C:1598:GLN:HG2	1.89	0.53
1:C:1972:ASN:O	1:C:1975:SER:OG	2.17	0.53
1:C:3969:ILE:HD13	1:C:4030:LEU:HD13	1.90	0.53
1:E:273:HIS:CE1	1:E:334:MET:HE2	2.41	0.53
1:E:565:TYR:HB2	1:E:602:VAL:HG22	1.91	0.53
1:E:1255:TYR:CZ	1:E:1287:LEU:HD11	2.43	0.53
1:G:1211:LEU:HD23	1:G:1212:ARG:HG3	1.90	0.53
1:G:2145:SER:HB3	1:G:3647:HIS:CD2	2.43	0.53
1:A:232:THR:HG21	1:A:252:VAL:HG21	1.89	0.53
1:A:2145:SER:HB3	1:A:3647:HIS:CD2	2.43	0.53
1:C:1255:TYR:CZ	1:C:1287:LEU:HD11	2.43	0.53
1:C:2145:SER:HB3	1:C:3647:HIS:CD2	2.43	0.53
1:C:2551:ASN:O	1:C:2554:LEU:HG	2.07	0.53
1:C:3842:LEU:HD13	1:C:3954:ALA:HB2	1.91	0.53
1:E:50:GLU:HG2	1:E:65:CYS:SG	2.49	0.53
1:E:176:SER:HB2	1:E:178:ARG:HH21	1.73	0.53
1:E:283:ARG:HG2	1:E:284:HIS:O	2.08	0.53
1:E:2902:HIS:CG	1:E:2903:PRO:HD2	2.44	0.53
1:G:626:LEU:HB3	1:G:1688:HIS:CE1	2.43	0.53
1:G:1127:HIS:CD2	1:G:1128:ARG:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3891:LEU:HB3	1:G:3899:PHE:CE2	2.44	0.53
1:A:421:PHE:HE1	1:A:497:TYR:HH	1.57	0.53
1:A:691:GLY:HA3	1:A:710:ASP:OD2	2.08	0.53
1:A:4888:TYR:O	1:A:4892:ARG:NH2	2.35	0.53
1:A:4962:GLY:O	1:A:4964:GLY:N	2.41	0.53
1:C:669:ASP:HB2	1:C:788:LYS:HG3	1.88	0.53
1:C:1111:PRO:HB2	1:C:1607:ARG:HB3	1.90	0.53
1:E:15:ARG:N	1:E:18:ASP:OD2	2.41	0.53
1:E:915:GLU:HA	1:E:918:ARG:HB2	1.90	0.53
1:E:2126:ARG:HG3	1:E:2133:GLU:OE1	2.08	0.53
2:F:74:LEU:HD23	2:F:76:ILE:HD11	1.90	0.53
1:G:15:ARG:N	1:G:18:ASP:OD2	2.41	0.53
1:G:565:TYR:HB2	1:G:602:VAL:HG22	1.91	0.53
1:G:828:GLU:HG3	1:G:830:ARG:H	1.72	0.53
1:G:915:GLU:HA	1:G:918:ARG:HB2	1.90	0.53
1:G:2149:VAL:O	1:G:2152:THR:OG1	2.19	0.53
1:A:626:LEU:HB3	1:A:1688:HIS:CE1	2.43	0.53
1:A:1111:PRO:HB2	1:A:1607:ARG:HB3	1.90	0.53
1:A:2126:ARG:HG3	1:A:2133:GLU:OE1	2.08	0.53
1:A:3842:LEU:HD13	1:A:3954:ALA:HB2	1.91	0.53
1:C:176:SER:HB2	1:C:178:ARG:HH21	1.73	0.53
1:C:1621:GLY:HA2	1:C:1628:VAL:HA	1.91	0.53
1:C:2197:LEU:O	1:C:2201:LEU:HG	2.09	0.53
1:C:4235:VAL:HG21	1:C:5019:TRP:CZ3	2.43	0.53
1:E:42:PHE:HE2	1:E:399:GLN:HE21	1.55	0.53
1:E:210:GLU:HG2	1:E:273:HIS:HE1	1.73	0.53
1:E:596:ASN:CB	1:E:599:VAL:CG2	2.86	0.53
1:E:636:ASN:OD1	1:E:637:LEU:N	2.42	0.53
1:E:909:ASN:O	1:E:912:SER:OG	2.22	0.53
1:E:1712:TYR:O	1:E:1716:ILE:HG12	2.08	0.53
1:E:1815:LEU:HD11	1:E:1845:VAL:HG21	1.89	0.53
1:E:3891:LEU:HB3	1:E:3899:PHE:CE2	2.44	0.53
1:G:176:SER:HB2	1:G:178:ARG:HH21	1.73	0.53
1:G:596:ASN:CB	1:G:599:VAL:CG2	2.86	0.53
1:G:691:GLY:HA3	1:G:710:ASP:OD2	2.08	0.53
1:G:1205:GLY:HA3	1:G:1227:ALA:HB3	1.90	0.53
1:G:1806:ALA:O	1:G:1810:LYS:HG2	2.09	0.53
1:G:1972:ASN:O	1:G:1975:SER:OG	2.17	0.53
1:G:2198:MET:CE	1:G:2203:MET:HE3	2.10	0.53
2:H:16:PRO:HG3	2:H:106:LEU:HD21	1.90	0.53
1:A:15:ARG:N	1:A:18:ASP:OD2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2112:GLN:O	1:A:2113:SER:OG	2.21	0.53
1:C:15:ARG:N	1:C:18:ASP:OD2	2.41	0.53
1:C:565:TYR:HB2	1:C:602:VAL:HG22	1.91	0.53
1:C:595:ARG:NH2	1:C:1641:ILE:HG12	2.23	0.53
1:C:1211:LEU:HD23	1:C:1212:ARG:HG3	1.90	0.53
1:C:4083:ASP:O	1:C:4084:PRO:CB	2.56	0.53
1:E:721:LEU:HD23	1:E:767:VAL:HG11	1.79	0.53
1:E:3837:GLN:HA	1:E:3837:GLN:HE21	1.70	0.53
1:E:3969:ILE:HD13	1:E:4030:LEU:HD13	1.90	0.53
2:F:27:THR:HA	2:F:38:SER:HA	1.90	0.53
1:G:283:ARG:HG2	1:G:284:HIS:O	2.08	0.53
1:G:703:GLY:N	1:G:1647:CYS:SG	2.82	0.53
1:G:827:LYS:O	1:G:828:GLU:HB3	2.08	0.53
1:G:1660:GLN:NE2	1:G:1704:PRO:HB2	2.24	0.53
1:G:2197:LEU:O	1:G:2201:LEU:HG	2.09	0.53
1:A:2882:TYR:HB2	1:A:2919:ASP:OD2	2.06	0.53
1:C:50:GLU:HG2	1:C:65:CYS:SG	2.49	0.53
1:C:646:PRO:HG2	1:C:779:PRO:HG2	1.91	0.53
1:C:4732:PHE:HE1	1:C:4736:ARG:HD2	1.73	0.53
1:E:189:LEU:N	1:E:189:LEU:HD23	2.23	0.53
1:E:1018:ASN:CB	1:E:1021:LEU:CD2	2.58	0.53
1:E:1111:PRO:HB2	1:E:1607:ARG:HB3	1.90	0.53
1:E:4705:VAL:HG22	1:E:4711:PHE:HD1	1.73	0.53
1:G:595:ARG:NH2	1:G:1641:ILE:HG12	2.23	0.53
1:G:680:THR:HG21	1:G:785:ALA:HB3	1.91	0.53
1:A:273:HIS:CE1	1:A:334:MET:HE2	2.42	0.53
1:A:379:HIS:NE2	1:A:381:GLU:OE1	2.41	0.53
1:A:595:ARG:NH2	1:A:1641:ILE:HG12	2.23	0.53
1:A:596:ASN:CB	1:A:599:VAL:CG2	2.86	0.53
1:A:636:ASN:OD1	1:A:637:LEU:N	2.42	0.53
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	1.91	0.53
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.09	0.53
1:C:210:GLU:HG2	1:C:273:HIS:HE1	1.73	0.53
1:C:626:LEU:HB3	1:C:1688:HIS:CE1	2.43	0.53
1:C:1257:VAL:HA	1:C:1277:TRP:NE1	2.23	0.53
1:C:1660:GLN:NE2	1:C:1704:PRO:HB2	2.24	0.53
1:C:2346:VAL:HG23	1:C:2349:ASN:HB2	1.91	0.53
1:E:4235:VAL:HG21	1:E:5019:TRP:CZ3	2.43	0.53
1:G:646:PRO:HG2	1:G:779:PRO:HG2	1.91	0.53
1:G:1095:VAL:HG23	1:G:1201:HIS:H	1.74	0.53
1:A:565:TYR:HB2	1:A:602:VAL:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:646:PRO:HG2	1:A:779:PRO:HG2	1.91	0.53
1:A:1660:GLN:NE2	1:A:1704:PRO:HB2	2.24	0.53
1:A:2346:VAL:HG23	1:A:2349:ASN:HB2	1.91	0.53
2:B:16:PRO:HG3	2:B:106:LEU:HD21	1.90	0.53
1:C:42:PHE:HE2	1:C:399:GLN:HE21	1.55	0.53
1:C:682:LEU:O	1:C:716:PHE:HB2	2.09	0.53
1:C:2126:ARG:HG3	1:C:2133:GLU:OE1	2.08	0.53
2:D:74:LEU:HD23	2:D:76:ILE:HD11	1.90	0.53
1:E:595:ARG:CB	1:E:1662:PHE:CD1	2.72	0.53
1:E:1205:GLY:HA3	1:E:1227:ALA:HB3	1.90	0.53
1:E:2346:VAL:HG23	1:E:2349:ASN:HB2	1.91	0.53
1:E:2517:PHE:O	1:E:2521:VAL:HG23	2.09	0.53
1:E:4181:ILE:HD11	1:E:4991:PHE:CZ	2.44	0.53
1:G:681:HIS:CA	1:G:716:PHE:HD1	2.06	0.53
2:H:74:LEU:HD23	2:H:76:ILE:HD11	1.90	0.53
1:A:181:HIS:CD2	1:A:196:MET:HB2	2.44	0.52
1:A:1082:THR:HG22	1:A:1189:LEU:HG	1.91	0.52
1:A:2929:PHE:O	1:A:2933:ASN:ND2	2.34	0.52
1:A:4693:GLY:C	1:A:4695:ASP:N	2.44	0.52
2:B:74:LEU:HD23	2:B:76:ILE:HD11	1.90	0.52
1:C:425:PRO:HA	1:C:506:TYR:HA	1.91	0.52
1:C:1095:VAL:HG23	1:C:1201:HIS:H	1.74	0.52
1:C:2517:PHE:O	1:C:2521:VAL:HG23	2.09	0.52
1:C:3794:VAL:O	1:C:3797:THR:OG1	2.18	0.52
1:C:4181:ILE:HD11	1:C:4991:PHE:CZ	2.44	0.52
1:E:438:ILE:HG23	1:E:518:ILE:HD11	1.92	0.52
1:E:703:GLY:N	1:E:1647:CYS:SG	2.82	0.52
1:E:716:PHE:CG	1:E:717:ASP:H	1.59	0.52
1:E:1660:GLN:NE2	1:E:1704:PRO:HB2	2.24	0.52
1:E:2197:LEU:O	1:E:2201:LEU:HG	2.09	0.52
1:E:3842:LEU:HD13	1:E:3954:ALA:HB2	1.91	0.52
1:E:3903:LEU:HD22	1:E:3915:ILE:HD12	1.92	0.52
1:G:425:PRO:HA	1:G:506:TYR:HA	1.91	0.52
1:G:607:CYS:SG	1:G:1673:VAL:HA	2.50	0.52
1:G:2822:THR:HG1	1:G:2938:THR:HG1	1.56	0.52
1:A:646:PRO:HB2	1:A:793:LEU:CD1	2.26	0.52
1:A:915:GLU:HA	1:A:918:ARG:HB2	1.90	0.52
1:A:1095:VAL:HG23	1:A:1201:HIS:H	1.74	0.52
1:A:3940:LYS:O	1:A:3942:VAL:N	2.43	0.52
1:A:4661:TYR:HE2	1:A:4789:PHE:HB2	1.74	0.52
1:C:681:HIS:HE1	1:C:705:ASN:H	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4661:TYR:HE2	1:C:4789:PHE:HB2	1.74	0.52
1:E:181:HIS:CD2	1:E:196:MET:HB2	2.44	0.52
1:E:646:PRO:HG2	1:E:779:PRO:HG2	1.91	0.52
1:E:1743:ARG:CB	1:E:1963:GLU:HG2	2.32	0.52
1:G:50:GLU:HG2	1:G:65:CYS:SG	2.49	0.52
1:G:681:HIS:HE1	1:G:705:ASN:H	1.56	0.52
1:G:2112:GLN:O	1:G:2113:SER:OG	2.21	0.52
1:A:1018:ASN:HB3	1:A:1021:LEU:CG	2.36	0.52
1:A:1205:GLY:HA3	1:A:1227:ALA:HB3	1.90	0.52
1:A:1637:MET:HG3	1:A:1650:ILE:HD13	1.91	0.52
1:A:4732:PHE:HE1	1:A:4736:ARG:HD2	1.73	0.52
1:C:596:ASN:CB	1:C:599:VAL:CG2	2.86	0.52
1:C:636:ASN:OD1	1:C:637:LEU:N	2.42	0.52
1:C:4686:LEU:CD2	1:C:4687:TYR:CE1	2.85	0.52
1:E:591:ASP:O	1:E:1598:GLN:NE2	2.41	0.52
1:E:1077:ALA:HB3	1:E:1189:LEU:HD22	1.91	0.52
1:G:2453:ILE:O	1:G:2457:LEU:HD13	2.09	0.52
1:G:3903:LEU:HD22	1:G:3915:ILE:HD12	1.92	0.52
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.10	0.52
1:A:177:GLU:OE2	1:C:2452:ARG:NH1	2.43	0.52
1:A:680:THR:HG21	1:A:785:ALA:HB3	1.91	0.52
1:A:1078:GLU:OE1	1:A:1235:THR:OG1	2.25	0.52
1:A:2149:VAL:O	1:A:2152:THR:OG1	2.19	0.52
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.09	0.52
1:C:2499:LYS:HD2	1:C:2553:TYR:CE1	2.45	0.52
1:E:607:CYS:SG	1:E:1673:VAL:HA	2.50	0.52
1:G:1078:GLU:OE1	1:G:1235:THR:OG1	2.25	0.52
1:G:3794:VAL:O	1:G:3797:THR:OG1	2.18	0.52
1:A:50:GLU:HG2	1:A:65:CYS:SG	2.49	0.52
1:A:4849:TYR:O	1:A:4852:THR:HG22	2.10	0.52
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	1.91	0.52
1:E:595:ARG:NH2	1:E:1641:ILE:HG12	2.23	0.52
1:E:4640:GLU:HB3	1:E:4641:PRO:HD3	1.91	0.52
1:G:181:HIS:CD2	1:G:196:MET:HB2	2.44	0.52
1:G:1621:GLY:HA2	1:G:1628:VAL:HA	1.91	0.52
1:G:2346:VAL:HG23	1:G:2349:ASN:HB2	1.91	0.52
1:G:4661:TYR:HE2	1:G:4789:PHE:HB2	1.74	0.52
1:A:703:GLY:N	1:A:1647:CYS:SG	2.82	0.52
1:A:1206:GLN:O	1:A:1209:SER:OG	2.23	0.52
1:A:4823:LEU:HD12	1:G:4839:MET:HG3	1.92	0.52
1:C:181:HIS:CD2	1:C:196:MET:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:683:ARG:NH1	1:C:722:TRP:CB	2.73	0.52
1:C:703:GLY:N	1:C:1647:CYS:SG	2.82	0.52
1:C:2383:ALA:HB1	1:C:2423:MET:HB2	1.92	0.52
1:C:2902:HIS:CG	1:C:2903:PRO:HD2	2.44	0.52
1:E:177:GLU:OE2	1:G:2452:ARG:NH1	2.43	0.52
1:E:680:THR:HG21	1:E:785:ALA:HB3	1.91	0.52
1:E:2341:VAL:HG22	1:E:2342:ASN:H	1.75	0.52
1:E:3962:PHE:O	1:E:3966:THR:HG23	2.10	0.52
1:E:4802:GLY:HA2	1:E:4809:PHE:HB2	1.92	0.52
1:G:438:ILE:HG23	1:G:518:ILE:HD11	1.92	0.52
1:G:683:ARG:NH1	1:G:722:TRP:CB	2.73	0.52
1:G:1077:ALA:HB3	1:G:1189:LEU:HD22	1.91	0.52
1:G:1082:THR:HG22	1:G:1189:LEU:HG	1.91	0.52
1:A:1236:THR:O	1:A:1237:TRP:HD1	1.93	0.52
1:A:2383:ALA:HB1	1:A:2423:MET:HB2	1.92	0.52
1:C:177:GLU:OE2	1:E:2452:ARG:NH1	2.43	0.52
1:C:1236:THR:O	1:C:1237:TRP:HD1	1.93	0.52
1:C:1743:ARG:CG	1:C:1963:GLU:CG	2.86	0.52
1:C:2192:TYR:HE1	1:C:2238:TYR:HE2	1.58	0.52
1:C:2341:VAL:HG22	1:C:2342:ASN:H	1.75	0.52
1:C:3897:ASN:O	1:C:3901:ASN:ND2	2.40	0.52
1:E:497:TYR:HE1	1:E:506:TYR:CG	2.28	0.52
1:E:681:HIS:CA	1:E:716:PHE:HD1	2.06	0.52
1:E:1621:GLY:HA2	1:E:1628:VAL:HA	1.91	0.52
1:E:1853:ILE:HG22	1:E:1854:PHE:HD1	1.67	0.52
1:E:2870:GLU:OE2	1:E:2939:ARG:NE	2.42	0.52
1:E:4839:MET:HG3	1:G:4823:LEU:HD12	1.92	0.52
1:G:3842:LEU:HD13	1:G:3954:ALA:HB2	1.91	0.52
1:A:176:SER:HB2	1:A:178:ARG:HH21	1.73	0.52
1:A:2453:ILE:O	1:A:2457:LEU:HD13	2.09	0.52
1:A:2499:LYS:HD2	1:A:2553:TYR:CE1	2.45	0.52
1:A:2870:GLU:OE2	1:A:2939:ARG:NE	2.42	0.52
1:C:1018:ASN:CB	1:C:1021:LEU:CD2	2.58	0.52
1:C:2453:ILE:O	1:C:2457:LEU:HD13	2.09	0.52
1:C:4802:GLY:HA2	1:C:4809:PHE:HB2	1.92	0.52
1:E:1095:VAL:HG23	1:E:1201:HIS:H	1.74	0.52
2:F:37:ASP:OD1	2:F:38:SER:N	2.43	0.52
1:G:636:ASN:OD1	1:G:637:LEU:N	2.42	0.52
1:G:1637:MET:HG3	1:G:1650:ILE:HD13	1.91	0.52
1:G:4849:TYR:O	1:G:4852:THR:HG22	2.10	0.52
1:A:425:PRO:HA	1:A:506:TYR:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:CYS:SG	1:A:1673:VAL:HA	2.50	0.52
1:A:680:THR:HG21	1:A:784:SER:O	2.10	0.52
1:A:1295:VAL:O	1:A:1547:LYS:HA	2.10	0.52
1:A:2192:TYR:HE1	1:A:2238:TYR:HE2	1.58	0.52
1:C:993:HIS:NE2	1:C:1020:ARG:O	2.43	0.52
1:C:1082:THR:HG22	1:C:1189:LEU:HG	1.91	0.52
1:C:1585:LYS:HB3	1:C:1587:PRO:HD2	1.92	0.52
1:C:2195:PRO:HB3	1:C:2242:ILE:HD12	1.92	0.52
1:C:3903:LEU:HD22	1:C:3915:ILE:HD12	1.92	0.52
1:E:554:LEU:HD21	1:E:1597:VAL:CG2	2.33	0.52
1:E:682:LEU:O	1:E:716:PHE:HB2	2.09	0.52
1:E:1072:VAL:HG13	1:E:1194:LEU:O	2.10	0.52
1:E:2499:LYS:HD2	1:E:2553:TYR:CE1	2.45	0.52
1:E:4849:TYR:O	1:E:4852:THR:HG22	2.10	0.52
1:G:497:TYR:HE1	1:G:506:TYR:CG	2.28	0.52
1:G:680:THR:HG21	1:G:784:SER:O	2.10	0.52
1:G:2557:ALA:O	1:G:2560:PRO:HD2	2.10	0.52
1:G:3940:LYS:O	1:G:3942:VAL:N	2.43	0.52
1:A:1448:VAL:HG11	1:A:1554:VAL:HG22	1.85	0.52
1:A:1621:GLY:HA2	1:A:1628:VAL:HA	1.91	0.52
1:A:2197:LEU:O	1:A:2201:LEU:HG	2.09	0.52
1:A:4705:VAL:HG22	1:A:4711:PHE:HD1	1.73	0.52
2:B:37:ASP:OD1	2:B:38:SER:N	2.43	0.52
1:C:1637:MET:HG3	1:C:1650:ILE:HD13	1.91	0.52
1:C:4577:LEU:HD21	1:C:4806:ASN:O	2.10	0.52
1:C:4640:GLU:HB3	1:C:4641:PRO:HD3	1.91	0.52
1:E:1743:ARG:CG	1:E:1963:GLU:CG	2.86	0.52
1:E:2453:ILE:O	1:E:2457:LEU:HD13	2.09	0.52
1:E:2557:ALA:O	1:E:2560:PRO:HD2	2.10	0.52
1:E:4661:TYR:HE2	1:E:4789:PHE:HB2	1.74	0.52
1:G:1072:VAL:HG13	1:G:1194:LEU:O	2.10	0.52
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.11	0.52
1:A:682:LEU:O	1:A:716:PHE:HB2	2.09	0.51
1:A:1018:ASN:CG	1:A:1019:PRO:HD2	2.31	0.51
1:A:2195:PRO:HB3	1:A:2242:ILE:HD12	1.92	0.51
1:C:554:LEU:HD21	1:C:1597:VAL:CG2	2.33	0.51
1:C:680:THR:HG21	1:C:785:ALA:HB3	1.91	0.51
1:C:1240:LYS:HZ1	1:C:1610:ASN:HD22	1.57	0.51
1:C:1295:VAL:O	1:C:1547:LYS:HA	2.10	0.51
1:C:2902:HIS:H	1:C:2905:LEU:HD12	1.75	0.51
1:C:2929:PHE:O	1:C:2933:ASN:ND2	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3940:LYS:O	1:C:3942:VAL:N	2.43	0.51
1:C:4839:MET:HG3	1:E:4823:LEU:HD12	1.92	0.51
2:D:16:PRO:HG3	2:D:106:LEU:HD21	1.90	0.51
1:E:4577:LEU:HD21	1:E:4806:ASN:O	2.10	0.51
1:G:554:LEU:HD21	1:G:1597:VAL:CG2	2.33	0.51
1:G:4035:VAL:HG12	1:G:4036:VAL:N	2.25	0.51
1:G:4640:GLU:HB3	1:G:4641:PRO:HD3	1.91	0.51
1:G:4802:GLY:HA2	1:G:4809:PHE:HB2	1.92	0.51
1:A:2128:TYR:O	1:A:3669:PHE:CD2	2.62	0.51
1:A:2452:ARG:NH1	1:G:177:GLU:OE2	2.43	0.51
1:A:3885:PHE:CG	1:A:3961:VAL:HG22	2.46	0.51
1:A:3903:LEU:HD22	1:A:3915:ILE:HD12	1.92	0.51
1:A:4181:ILE:HD11	1:A:4991:PHE:CZ	2.44	0.51
2:B:21:THR:HB	2:B:107:GLU:HB2	1.93	0.51
1:C:716:PHE:CD2	1:C:717:ASP:CA	2.93	0.51
1:C:2557:ALA:O	1:C:2560:PRO:HD2	2.10	0.51
1:C:3962:PHE:O	1:C:3966:THR:HG23	2.10	0.51
1:C:4242:ILE:HD13	1:C:4996:ILE:HD12	1.93	0.51
1:C:4686:LEU:HG	1:C:4687:TYR:N	2.26	0.51
1:E:70:GLU:C	1:E:71:GLN:CG	2.79	0.51
1:E:1018:ASN:CG	1:E:1019:PRO:HD2	2.31	0.51
1:E:1100:MET:SD	1:E:1194:LEU:HA	2.50	0.51
1:E:1132:TRP:CD1	1:E:1136:SER:N	2.79	0.51
1:E:1434:TYR:HA	1:E:1518:CYS:HA	1.92	0.51
1:E:2383:ALA:HB1	1:E:2423:MET:HB2	1.92	0.51
1:E:3940:LYS:O	1:E:3942:VAL:N	2.43	0.51
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.11	0.51
1:G:40:GLU:HB2	1:G:48:PHE:HE2	1.74	0.51
1:G:1278:GLY:HA2	1:G:1561:VAL:H	1.75	0.51
1:G:2383:ALA:HB1	1:G:2423:MET:HB2	1.92	0.51
2:H:37:ASP:OD1	2:H:38:SER:N	2.43	0.51
1:A:497:TYR:HE1	1:A:506:TYR:CG	2.28	0.51
1:A:683:ARG:NH1	1:A:722:TRP:CB	2.73	0.51
1:A:2094:LEU:O	1:A:2098:VAL:HG23	2.11	0.51
1:A:2341:VAL:HG22	1:A:2342:ASN:H	1.75	0.51
1:A:3962:PHE:O	1:A:3966:THR:HG23	2.10	0.51
1:A:4640:GLU:HB3	1:A:4641:PRO:HD3	1.91	0.51
1:C:4962:GLY:O	1:C:4964:GLY:N	2.41	0.51
1:E:649:PHE:HD1	1:E:778:PHE:HB3	1.76	0.51
1:E:2192:TYR:HE1	1:E:2238:TYR:HE2	1.58	0.51
1:E:2195:PRO:HB3	1:E:2242:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2902:HIS:H	1:E:2905:LEU:HD12	1.75	0.51
1:G:125:ARG:HB3	1:G:134:ASP:OD1	2.09	0.51
1:G:725:HIS:ND1	1:G:725:HIS:O	2.44	0.51
1:G:2094:LEU:O	1:G:2098:VAL:HG23	2.11	0.51
1:G:2192:TYR:HE1	1:G:2238:TYR:HE2	1.58	0.51
1:G:3885:PHE:CG	1:G:3961:VAL:HG22	2.46	0.51
1:G:4181:ILE:HD11	1:G:4991:PHE:CZ	2.44	0.51
1:G:4195:PHE:CD1	1:G:4195:PHE:C	2.84	0.51
1:A:40:GLU:HB2	1:A:48:PHE:HE2	1.74	0.51
1:A:1072:VAL:HG13	1:A:1194:LEU:O	2.10	0.51
1:A:4577:LEU:HD21	1:A:4806:ASN:O	2.10	0.51
1:A:4839:MET:HG3	1:C:4823:LEU:HD12	1.92	0.51
2:B:54:GLU:HG3	2:B:55:VAL:HG13	1.93	0.51
1:C:70:GLU:C	1:C:71:GLN:CG	2.79	0.51
1:C:438:ILE:HG23	1:C:518:ILE:HD11	1.92	0.51
1:C:1018:ASN:CG	1:C:1019:PRO:HD2	2.31	0.51
1:C:1276:THR:O	1:C:1277:TRP:HD1	1.94	0.51
1:C:4690:GLU:O	1:C:4691:GLN:HG2	2.11	0.51
1:C:4849:TYR:O	1:C:4852:THR:HG22	2.10	0.51
1:E:533:ASN:HB2	1:E:536:ASN:ND2	2.23	0.51
1:E:681:HIS:HE1	1:E:705:ASN:H	1.56	0.51
1:E:3885:PHE:CG	1:E:3961:VAL:HG22	2.46	0.51
1:E:4027:LEU:O	1:E:4030:LEU:HB3	2.11	0.51
1:G:649:PHE:HD1	1:G:778:PHE:HB3	1.76	0.51
1:G:1528:THR:HG22	1:G:1538:THR:CB	2.41	0.51
1:G:3997:ALA:O	1:G:4000:MET:HG2	2.11	0.51
1:G:4242:ILE:HD13	1:G:4996:ILE:HD12	1.93	0.51
2:H:21:THR:HB	2:H:107:GLU:HB2	1.93	0.51
1:A:438:ILE:HG23	1:A:518:ILE:HD11	1.92	0.51
1:A:681:HIS:HE1	1:A:705:ASN:H	1.56	0.51
1:A:993:HIS:NE2	1:A:1020:ARG:O	2.43	0.51
1:A:1100:MET:SD	1:A:1194:LEU:HA	2.50	0.51
1:A:1276:THR:O	1:A:1277:TRP:HD1	1.94	0.51
1:A:2517:PHE:O	1:A:2521:VAL:HG23	2.09	0.51
1:A:4027:LEU:O	1:A:4030:LEU:HB3	2.11	0.51
1:A:4242:ILE:HD13	1:A:4996:ILE:HD12	1.93	0.51
1:C:607:CYS:SG	1:C:1673:VAL:HA	2.50	0.51
1:C:1278:GLY:HA2	1:C:1561:VAL:H	1.75	0.51
1:C:1728:ARG:HG2	1:C:1850:VAL:HG11	1.92	0.51
1:E:40:GLU:HB2	1:E:48:PHE:HE2	1.74	0.51
1:E:125:ARG:CB	1:E:134:ASP:CG	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:680:THR:HG21	1:E:784:SER:O	2.10	0.51
1:G:583:ILE:HD11	1:G:617:ASN:OD1	2.11	0.51
1:G:600:LEU:CD2	1:G:1666:THR:HA	2.30	0.51
1:G:993:HIS:NE2	1:G:1020:ARG:O	2.43	0.51
1:G:1100:MET:SD	1:G:1194:LEU:HA	2.50	0.51
1:G:1236:THR:O	1:G:1237:TRP:HD1	1.93	0.51
1:G:2499:LYS:HD2	1:G:2553:TYR:CE1	2.45	0.51
1:G:4108:ILE:HA	1:G:4111:LEU:HD13	1.92	0.51
2:H:54:GLU:HG3	2:H:55:VAL:HG13	1.93	0.51
1:A:716:PHE:CD2	1:A:717:ASP:CA	2.93	0.51
1:A:1132:TRP:CD1	1:A:1136:SER:N	2.79	0.51
1:A:1134:LEU:HD23	1:A:1134:LEU:O	2.11	0.51
1:A:1585:LYS:HB3	1:A:1587:PRO:HD2	1.92	0.51
1:C:1072:VAL:HG13	1:C:1194:LEU:O	2.10	0.51
1:C:1132:TRP:CD1	1:C:1136:SER:N	2.79	0.51
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.11	0.51
1:C:3670:GLU:OE2	1:C:3731:LYS:HD2	2.11	0.51
1:E:1082:THR:HG22	1:E:1189:LEU:HG	1.91	0.51
1:E:1236:THR:O	1:E:1237:TRP:HD1	1.93	0.51
1:E:1252:HIS:HB3	1:E:1254:HIS:HA	1.92	0.51
1:E:1585:LYS:HB3	1:E:1587:PRO:HD2	1.92	0.51
1:E:1728:ARG:HG2	1:E:1850:VAL:HG11	1.92	0.51
1:E:1806:ALA:O	1:E:1810:LYS:HG2	2.09	0.51
1:E:2503:VAL:HB	1:E:2556:LEU:HD22	1.93	0.51
1:E:4888:TYR:O	1:E:4892:ARG:NH2	2.35	0.51
1:G:421:PHE:HE1	1:G:497:TYR:HH	1.58	0.51
1:G:2195:PRO:HB3	1:G:2242:ILE:HD12	1.92	0.51
1:G:2341:VAL:HG22	1:G:2342:ASN:H	1.75	0.51
1:G:4577:LEU:HD21	1:G:4806:ASN:O	2.10	0.51
1:G:4686:LEU:HG	1:G:4687:TYR:N	2.26	0.51
1:G:4951:LYS:O	1:G:4955:GLU:HG2	2.11	0.51
1:A:725:HIS:ND1	1:A:725:HIS:O	2.44	0.51
1:A:3997:ALA:O	1:A:4000:MET:HG2	2.11	0.51
1:C:680:THR:HG21	1:C:784:SER:O	2.10	0.51
1:C:1252:HIS:HB3	1:C:1254:HIS:HA	1.92	0.51
1:C:1287:LEU:HB2	1:C:1554:VAL:HB	1.93	0.51
1:C:1743:ARG:CB	1:C:1963:GLU:HG2	2.32	0.51
1:C:4951:LYS:O	1:C:4955:GLU:HG2	2.11	0.51
1:E:13:PHE:CD1	1:E:13:PHE:N	2.79	0.51
1:E:802:PHE:CE2	1:E:804:PRO:HG3	2.46	0.51
1:E:1261:ASP:HA	1:E:1273:ALA:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1295:VAL:O	1:E:1547:LYS:HA	2.10	0.51
1:E:1766:GLY:N	1:E:1856:ASP:CG	2.64	0.51
1:E:1972:ASN:O	1:E:1975:SER:OG	2.17	0.51
1:G:682:LEU:O	1:G:716:PHE:HB2	2.09	0.51
1:G:821:LEU:HD13	1:G:1626:TRP:HH2	1.75	0.51
1:G:1434:TYR:HA	1:G:1518:CYS:HA	1.92	0.51
1:A:70:GLU:C	1:A:71:GLN:CG	2.79	0.51
1:A:595:ARG:CB	1:A:1662:PHE:CD1	2.72	0.51
1:A:649:PHE:HD1	1:A:778:PHE:HB3	1.76	0.51
1:A:821:LEU:HD13	1:A:1626:TRP:HH2	1.75	0.51
1:A:1743:ARG:CG	1:A:1963:GLU:CG	2.86	0.51
1:A:3937:TYR:CD1	1:A:3943:ILE:HG12	2.46	0.51
1:A:4686:LEU:HG	1:A:4687:TYR:N	2.26	0.51
1:C:497:TYR:HE1	1:C:506:TYR:CG	2.28	0.51
1:C:641:VAL:HG11	1:C:704:GLY:HA2	1.93	0.51
1:C:1766:GLY:N	1:C:1856:ASP:CG	2.64	0.51
1:C:2182:ILE:HA	1:C:2185:ILE:HD12	1.93	0.51
1:C:3885:PHE:CG	1:C:3961:VAL:HG22	2.46	0.51
1:E:683:ARG:NH1	1:E:722:TRP:CB	2.73	0.51
1:E:725:HIS:ND1	1:E:725:HIS:O	2.44	0.51
1:E:1078:GLU:OE1	1:E:1235:THR:OG1	2.25	0.51
1:E:1278:GLY:HA2	1:E:1561:VAL:H	1.75	0.51
1:E:1297:PHE:HB2	1:E:1545:ASN:CA	2.38	0.51
1:E:2094:LEU:O	1:E:2098:VAL:HG23	2.11	0.51
1:E:3670:GLU:OE2	1:E:3731:LYS:HD2	2.11	0.51
1:E:4951:LYS:O	1:E:4955:GLU:HG2	2.11	0.51
1:G:1132:TRP:CD1	1:G:1136:SER:N	2.79	0.51
1:G:1295:VAL:O	1:G:1547:LYS:HA	2.10	0.51
1:G:2503:VAL:HB	1:G:2556:LEU:HD22	1.93	0.51
1:G:3937:TYR:CD1	1:G:3943:ILE:HG12	2.46	0.51
1:G:4690:GLU:O	1:G:4691:GLN:HG2	2.11	0.51
1:A:1278:GLY:HA2	1:A:1561:VAL:H	1.75	0.51
1:A:2557:ALA:O	1:A:2560:PRO:HD2	2.10	0.51
1:A:4013:LEU:O	1:A:4017:LEU:HG	2.11	0.51
1:A:4037:ASN:HB3	1:A:4042:ARG:HH21	1.76	0.51
1:C:645:ARG:HG2	1:C:826:ILE:HG13	1.92	0.51
1:C:649:PHE:HD1	1:C:778:PHE:HB3	1.76	0.51
1:C:4013:LEU:O	1:C:4017:LEU:HG	2.11	0.51
1:C:4035:VAL:HG12	1:C:4036:VAL:N	2.25	0.51
1:C:4108:ILE:HA	1:C:4111:LEU:HD13	1.92	0.51
2:D:21:THR:HB	2:D:107:GLU:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4037:ASN:HB3	1:E:4042:ARG:HH21	1.76	0.51
1:G:13:PHE:CD1	1:G:13:PHE:N	2.79	0.51
1:G:1018:ASN:CG	1:G:1019:PRO:HD2	2.31	0.51
1:G:1261:ASP:HA	1:G:1273:ALA:HA	1.93	0.51
1:G:1276:THR:O	1:G:1277:TRP:HD1	1.94	0.51
1:G:2902:HIS:H	1:G:2905:LEU:HD12	1.75	0.51
1:G:3669:PHE:CD1	1:G:3669:PHE:N	2.79	0.51
1:G:4178:LEU:HD12	1:G:4178:LEU:O	2.11	0.51
1:A:1252:HIS:HB3	1:A:1254:HIS:HA	1.92	0.51
1:A:1766:GLY:N	1:A:1856:ASP:CG	2.64	0.51
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	1.93	0.51
1:A:4108:ILE:HA	1:A:4111:LEU:HD13	1.92	0.51
1:A:4690:GLU:O	1:A:4691:GLN:HG2	2.11	0.51
1:A:4802:GLY:HA2	1:A:4809:PHE:HB2	1.92	0.51
1:C:1100:MET:SD	1:C:1194:LEU:HA	2.50	0.51
1:E:583:ILE:HD11	1:E:617:ASN:OD1	2.11	0.51
1:E:645:ARG:HG2	1:E:826:ILE:HG13	1.92	0.51
1:E:1528:THR:HG22	1:E:1538:THR:CB	2.41	0.51
1:G:793:LEU:HD22	1:G:811:CYS:HB3	1.92	0.51
1:G:1134:LEU:O	1:G:1134:LEU:HD23	2.11	0.51
1:G:1252:HIS:HB3	1:G:1254:HIS:HA	1.92	0.51
1:A:37:LEU:HD11	1:A:47:CYS:HB3	1.93	0.50
1:A:106:ALA:HA	1:A:149:THR:HA	1.93	0.50
1:A:1528:THR:HG22	1:A:1538:THR:CB	2.41	0.50
1:A:2227:LYS:O	1:A:2230:THR:OG1	2.18	0.50
1:A:4195:PHE:CD1	1:A:4195:PHE:C	2.84	0.50
1:C:40:GLU:HB2	1:C:48:PHE:HE2	1.74	0.50
1:C:533:ASN:HB2	1:C:536:ASN:ND2	2.23	0.50
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.12	0.50
1:C:4195:PHE:C	1:C:4195:PHE:CD1	2.84	0.50
1:C:4552:LEU:HD21	1:C:4663:CYS:SG	2.52	0.50
2:D:37:ASP:OD1	2:D:38:SER:N	2.43	0.50
1:E:993:HIS:NE2	1:E:1020:ARG:O	2.43	0.50
1:E:4242:ILE:HD13	1:E:4996:ILE:HD12	1.93	0.50
2:F:54:GLU:HG3	2:F:55:VAL:HG13	1.93	0.50
1:G:1585:LYS:HB3	1:G:1587:PRO:HD2	1.92	0.50
1:G:1728:ARG:HG2	1:G:1850:VAL:HG11	1.92	0.50
1:G:1766:GLY:N	1:G:1856:ASP:CG	2.64	0.50
1:G:4904:PRO:CD	1:G:4913:ARG:HH11	2.24	0.50
1:A:42:PHE:HD1	1:A:447:ASP:CG	2.15	0.50
1:A:817:PRO:O	1:A:1027:LEU:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2498:HIS:O	1:A:2501:SER:OG	2.22	0.50
1:A:2902:HIS:H	1:A:2905:LEU:HD12	1.75	0.50
1:C:37:LEU:HD11	1:C:47:CYS:HB3	1.93	0.50
1:C:42:PHE:HD1	1:C:447:ASP:CG	2.15	0.50
1:C:674:PHE:HE1	1:C:679:ALA:HB2	1.77	0.50
1:C:1134:LEU:HD23	1:C:1134:LEU:O	2.11	0.50
1:C:3699:HIS:HB2	1:C:3773:ARG:HD2	1.94	0.50
1:E:42:PHE:HD1	1:E:447:ASP:CG	2.15	0.50
1:E:641:VAL:HG11	1:E:704:GLY:HA2	1.93	0.50
1:E:1287:LEU:HB2	1:E:1554:VAL:HB	1.93	0.50
1:E:4195:PHE:C	1:E:4195:PHE:CD1	2.84	0.50
1:E:4680:LYS:C	1:E:4684:ASP:HB2	2.32	0.50
1:E:4690:GLU:O	1:E:4691:GLN:HG2	2.11	0.50
1:G:802:PHE:CE2	1:G:804:PRO:HG3	2.46	0.50
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.12	0.50
1:G:2517:PHE:O	1:G:2521:VAL:HG23	2.09	0.50
1:G:4027:LEU:O	1:G:4030:LEU:HB3	2.11	0.50
1:A:583:ILE:HD11	1:A:617:ASN:OD1	2.11	0.50
1:C:106:ALA:HA	1:C:149:THR:HA	1.93	0.50
1:C:583:ILE:HD11	1:C:617:ASN:OD1	2.11	0.50
1:C:802:PHE:CE2	1:C:804:PRO:HG3	2.46	0.50
1:C:1450:VAL:HG13	1:C:1552:VAL:HG22	1.93	0.50
1:C:4027:LEU:O	1:C:4030:LEU:HB3	2.11	0.50
1:E:3699:HIS:HB2	1:E:3773:ARG:HD2	1.94	0.50
1:E:3937:TYR:CD1	1:E:3943:ILE:HG12	2.46	0.50
1:G:1944:GLU:HB2	1:G:2123:LEU:HD11	1.93	0.50
1:G:4900:GLU:OE1	1:G:4900:GLU:HA	2.12	0.50
1:A:1943:LEU:HD21	1:A:2098:VAL:HG22	1.93	0.50
1:A:4720:VAL:O	1:A:4724:VAL:HG23	2.12	0.50
1:A:4904:PRO:CD	1:A:4913:ARG:HH11	2.24	0.50
1:C:817:PRO:O	1:C:1027:LEU:HA	2.11	0.50
1:C:1434:TYR:HA	1:C:1518:CYS:HA	1.92	0.50
1:C:3937:TYR:CD1	1:C:3943:ILE:HG12	2.46	0.50
1:C:3997:ALA:O	1:C:4000:MET:HG2	2.11	0.50
1:C:4037:ASN:HB3	1:C:4042:ARG:HH21	1.76	0.50
2:D:54:GLU:HG3	2:D:55:VAL:HG13	1.93	0.50
1:E:716:PHE:CD2	1:E:717:ASP:CA	2.93	0.50
1:E:1637:MET:HG3	1:E:1650:ILE:HD13	1.91	0.50
2:F:21:THR:HB	2:F:107:GLU:HB2	1.93	0.50
1:G:4680:LYS:C	1:G:4684:ASP:HB2	2.32	0.50
1:G:4693:GLY:C	1:G:4695:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4710:SER:O	1:G:4713:SER:OG	2.16	0.50
1:G:4720:VAL:O	1:G:4724:VAL:HG23	2.12	0.50
1:A:229:GLU:HA	1:A:249:GLY:HA2	1.94	0.50
1:A:603:LEU:HD23	1:A:606:LEU:HD12	1.94	0.50
1:A:802:PHE:CE2	1:A:804:PRO:HG3	2.46	0.50
1:A:1434:TYR:HA	1:A:1518:CYS:HA	1.92	0.50
1:A:4055:VAL:HG13	1:A:4058:ILE:HD11	1.94	0.50
1:A:4680:LYS:O	1:A:4684:ASP:CB	2.59	0.50
1:C:229:GLU:HA	1:C:249:GLY:HA2	1.94	0.50
1:C:592:LYS:HE3	1:C:1596:GLU:CD	2.31	0.50
1:C:793:LEU:HD22	1:C:811:CYS:HB3	1.92	0.50
1:C:1101:ARG:HB2	1:C:1193:SER:OG	2.12	0.50
1:C:4861:LYS:HG3	1:C:4862:PHE:CD1	2.47	0.50
1:C:4904:PRO:CD	1:C:4913:ARG:HH11	2.24	0.50
1:E:674:PHE:HE1	1:E:679:ALA:HB2	1.77	0.50
1:E:2125:HIS:CE1	1:E:3724:ALA:HB1	2.47	0.50
1:E:2149:VAL:O	1:E:2152:THR:OG1	2.19	0.50
1:E:3997:ALA:O	1:E:4000:MET:HG2	2.11	0.50
1:E:4108:ILE:HA	1:E:4111:LEU:HD13	1.92	0.50
1:G:645:ARG:HG2	1:G:826:ILE:HG13	1.92	0.50
1:G:1943:LEU:HD21	1:G:2098:VAL:HG22	1.93	0.50
1:G:3699:HIS:HD2	1:G:3773:ARG:HA	1.77	0.50
1:G:4037:ASN:HB3	1:G:4042:ARG:HH21	1.76	0.50
1:G:4238:CYS:O	1:G:4242:ILE:HG13	2.12	0.50
1:G:4552:LEU:HD21	1:G:4663:CYS:SG	2.52	0.50
1:A:1287:LEU:HB2	1:A:1554:VAL:HB	1.93	0.50
1:A:1728:ARG:HG2	1:A:1850:VAL:HG11	1.92	0.50
1:A:3699:HIS:HB2	1:A:3773:ARG:HD2	1.94	0.50
1:C:1448:VAL:HG11	1:C:1554:VAL:HG22	1.85	0.50
1:C:2503:VAL:HB	1:C:2556:LEU:HD22	1.93	0.50
1:C:4181:ILE:CD1	1:C:4991:PHE:CD1	2.95	0.50
1:C:4238:CYS:O	1:C:4242:ILE:HG13	2.12	0.50
1:C:4708:THR:HG22	1:C:4710:SER:N	2.22	0.50
1:E:4238:CYS:O	1:E:4242:ILE:HG13	2.12	0.50
1:G:554:LEU:CD2	1:G:593:HIS:CE1	2.95	0.50
1:G:3699:HIS:HB2	1:G:3773:ARG:HD2	1.94	0.50
1:G:4702:ASP:HA	1:G:4778:TRP:HE1	1.77	0.50
1:A:600:LEU:CD2	1:A:1666:THR:HA	2.30	0.50
1:A:617:ASN:O	1:A:621:ILE:HG12	2.12	0.50
1:A:3670:GLU:OE2	1:A:3731:LYS:HD2	2.11	0.50
1:A:4552:LEU:HD21	1:A:4663:CYS:SG	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4702:ASP:HA	1:A:4778:TRP:HE1	1.77	0.50
1:C:49:LEU:HD21	1:C:191:VAL:CG2	2.42	0.50
1:C:1528:THR:HG22	1:C:1538:THR:CB	2.41	0.50
1:E:1731:LEU:HA	1:E:1772:ARG:HH21	1.77	0.50
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.12	0.50
1:E:4552:LEU:HD21	1:E:4663:CYS:SG	2.52	0.50
1:E:4686:LEU:HG	1:E:4687:TYR:N	2.26	0.50
1:E:4962:GLY:O	1:E:4964:GLY:N	2.41	0.50
1:G:42:PHE:HD1	1:G:447:ASP:CG	2.15	0.50
1:G:70:GLU:C	1:G:71:GLN:CG	2.79	0.50
1:G:234:SER:O	1:G:242:ARG:NH1	2.45	0.50
1:G:495:ASN:HB3	1:G:553:ARG:NH1	2.27	0.50
1:G:597:HIS:ND1	1:G:597:HIS:N	2.60	0.50
1:G:641:VAL:HG11	1:G:704:GLY:HA2	1.93	0.50
1:A:680:THR:HG23	1:A:785:ALA:CB	2.42	0.50
1:A:2125:HIS:CE1	1:A:3724:ALA:HB1	2.47	0.50
1:A:3886:ARG:O	1:A:3890:LEU:HD13	2.12	0.50
1:A:4178:LEU:HD12	1:A:4178:LEU:O	2.11	0.50
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.11	0.50
1:C:725:HIS:ND1	1:C:725:HIS:O	2.44	0.50
1:C:1853:ILE:HG22	1:C:1854:PHE:HD1	1.67	0.50
1:C:2058:SER:O	1:C:2061:SER:OG	2.16	0.50
1:C:4055:VAL:HG13	1:C:4058:ILE:HD11	1.94	0.50
1:E:106:ALA:HA	1:E:149:THR:HA	1.93	0.50
1:E:603:LEU:HD23	1:E:606:LEU:HD12	1.94	0.50
1:E:619:ASP:O	1:E:623:GLU:HG2	2.12	0.50
1:E:821:LEU:HD13	1:E:1626:TRP:HH2	1.75	0.50
1:E:1450:VAL:HG13	1:E:1552:VAL:HG22	1.93	0.50
1:E:1944:GLU:HB2	1:E:2123:LEU:HD11	1.93	0.50
1:E:3699:HIS:HD2	1:E:3773:ARG:HA	1.77	0.50
1:E:3886:ARG:O	1:E:3890:LEU:HD13	2.12	0.50
1:G:603:LEU:HD23	1:G:606:LEU:HD12	1.94	0.50
1:G:619:ASP:O	1:G:623:GLU:HG2	2.12	0.50
1:G:721:LEU:HD23	1:G:767:VAL:HG11	1.79	0.50
1:G:4141:PHE:O	1:G:4145:VAL:HG23	2.12	0.50
1:G:4693:GLY:O	1:G:4695:ASP:O	2.30	0.50
1:A:234:SER:O	1:A:242:ARG:NH1	2.45	0.50
1:A:579:GLN:H	1:A:582:HIS:HD2	1.60	0.50
1:A:830:ARG:HH12	1:A:832:GLU:HB3	1.76	0.50
1:A:2503:VAL:HB	1:A:2556:LEU:HD22	1.93	0.50
1:A:3891:LEU:HD23	1:A:3899:PHE:HZ	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4181:ILE:O	1:A:4193:ILE:HG12	2.12	0.50
1:C:1944:GLU:HB2	1:C:2123:LEU:HD11	1.93	0.50
1:C:4877:ASP:HB3	1:E:4582:VAL:HG12	1.94	0.50
1:E:554:LEU:CD2	1:E:593:HIS:CE1	2.95	0.50
1:E:2182:ILE:HA	1:E:2185:ILE:HD12	1.93	0.50
1:E:4178:LEU:HD12	1:E:4178:LEU:O	2.11	0.50
1:E:4900:GLU:OE1	1:E:4900:GLU:HA	2.12	0.50
1:G:106:ALA:HA	1:G:149:THR:HA	1.93	0.50
1:G:716:PHE:CD2	1:G:717:ASP:CA	2.93	0.50
1:G:4851:TYR:CD2	1:G:4920:PHE:HD1	2.30	0.50
1:A:13:PHE:CD1	1:A:13:PHE:N	2.79	0.49
1:A:615:ARG:HH12	1:A:1678:ASN:HA	1.77	0.49
1:A:1579:MET:O	1:A:1582:SER:OG	2.15	0.49
1:C:488:LEU:HG	1:C:546:TRP:CH2	2.47	0.49
1:C:603:LEU:HD23	1:C:606:LEU:HD12	1.94	0.49
1:C:769:GLU:HG3	1:C:1475:THR:HG23	1.94	0.49
1:C:841:GLY:HA2	1:C:843:SER:N	2.23	0.49
1:C:1261:ASP:HA	1:C:1273:ALA:HA	1.93	0.49
1:C:1731:LEU:HA	1:C:1772:ARG:HH21	1.77	0.49
1:C:1966:VAL:HG21	1:C:3650:CYS:HA	1.94	0.49
1:C:3891:LEU:HD23	1:C:3899:PHE:HZ	1.77	0.49
1:C:4702:ASP:HA	1:C:4778:TRP:HE1	1.77	0.49
1:C:4720:VAL:O	1:C:4724:VAL:HG23	2.12	0.49
1:C:4888:TYR:O	1:C:4892:ARG:NH2	2.35	0.49
1:E:49:LEU:HD21	1:E:191:VAL:CG2	2.42	0.49
1:E:597:HIS:ND1	1:E:597:HIS:N	2.60	0.49
1:E:817:PRO:O	1:E:1027:LEU:HA	2.11	0.49
1:E:830:ARG:HH12	1:E:832:GLU:HB3	1.76	0.49
1:E:1134:LEU:O	1:E:1134:LEU:HD23	2.11	0.49
1:E:1448:VAL:HG11	1:E:1554:VAL:HG22	1.85	0.49
1:E:4181:ILE:O	1:E:4193:ILE:HG12	2.12	0.49
1:E:4861:LYS:HG3	1:E:4862:PHE:CD1	2.47	0.49
1:A:46:LEU:HD12	1:A:125:ARG:NH2	2.28	0.49
1:A:645:ARG:HG2	1:A:826:ILE:HG13	1.92	0.49
1:A:674:PHE:HE1	1:A:679:ALA:HB2	1.77	0.49
1:A:2822:THR:HG1	1:A:2938:THR:HG1	1.53	0.49
1:A:4973:HIS:ND1	1:A:4973:HIS:O	2.46	0.49
1:C:617:ASN:O	1:C:621:ILE:HG12	2.12	0.49
1:C:3699:HIS:HD2	1:C:3773:ARG:HA	1.77	0.49
1:C:4693:GLY:O	1:C:4695:ASP:O	2.30	0.49
1:E:495:ASN:HB3	1:E:553:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1943:LEU:HD21	1:E:2098:VAL:HG22	1.93	0.49
1:E:3669:PHE:CD1	1:E:3669:PHE:N	2.79	0.49
1:E:4035:VAL:HG12	1:E:4036:VAL:N	2.25	0.49
1:E:4904:PRO:CD	1:E:4913:ARG:HH11	2.24	0.49
1:G:680:THR:HG23	1:G:785:ALA:CB	2.42	0.49
1:G:681:HIS:O	1:G:682:LEU:HD13	2.13	0.49
1:G:1287:LEU:HB2	1:G:1554:VAL:HB	1.93	0.49
1:G:2182:ILE:HA	1:G:2185:ILE:HD12	1.93	0.49
1:A:49:LEU:HD21	1:A:191:VAL:CG2	2.42	0.49
1:A:619:ASP:O	1:A:623:GLU:HG2	2.12	0.49
1:A:4035:VAL:HG12	1:A:4036:VAL:N	2.25	0.49
1:A:4238:CYS:O	1:A:4242:ILE:HG13	2.12	0.49
2:B:40:ARG:C	2:B:43:ASN:H	2.14	0.49
1:C:13:PHE:CD1	1:C:13:PHE:N	2.79	0.49
1:C:821:LEU:HD13	1:C:1626:TRP:HH2	1.75	0.49
1:C:1288:PHE:CE2	1:C:1462:HIS:HA	2.43	0.49
1:C:3886:ARG:O	1:C:3890:LEU:HD13	2.12	0.49
1:E:579:GLN:H	1:E:582:HIS:HD2	1.60	0.49
1:E:680:THR:HG23	1:E:785:ALA:CB	2.42	0.49
1:E:681:HIS:O	1:E:682:LEU:HD13	2.13	0.49
2:F:40:ARG:C	2:F:43:ASN:H	2.14	0.49
1:G:817:PRO:O	1:G:1027:LEU:HA	2.11	0.49
1:G:835:ARG:NH2	1:G:1211:LEU:HD13	2.24	0.49
1:G:4181:ILE:O	1:G:4193:ILE:HG12	2.12	0.49
1:G:4687:TYR:CD1	1:G:4687:TYR:N	2.80	0.49
1:G:4961:CYS:HG	1:G:4983:HIS:CD2	2.30	0.49
1:A:1101:ARG:HB2	1:A:1193:SER:OG	2.12	0.49
1:A:1261:ASP:HA	1:A:1273:ALA:HA	1.93	0.49
1:A:1475:THR:HA	1:A:1486:SER:HA	1.94	0.49
1:A:4900:GLU:OE1	1:A:4900:GLU:HA	2.12	0.49
1:C:554:LEU:CD2	1:C:593:HIS:CE1	2.95	0.49
1:C:579:GLN:H	1:C:582:HIS:HD2	1.60	0.49
1:C:1519:LEU:HD12	1:C:1526:LEU:O	2.12	0.49
1:E:244:LEU:HD22	1:E:375:LYS:HE2	1.95	0.49
1:E:769:GLU:HG3	1:E:1475:THR:HG23	1.94	0.49
1:E:1276:THR:O	1:E:1277:TRP:HD1	1.94	0.49
1:E:4141:PHE:O	1:E:4145:VAL:HG23	2.12	0.49
1:G:229:GLU:HA	1:G:249:GLY:HA2	1.94	0.49
1:G:1101:ARG:HB2	1:G:1193:SER:OG	2.12	0.49
1:G:1240:LYS:O	1:G:1607:ARG:HA	2.13	0.49
1:G:3670:GLU:OE2	1:G:3731:LYS:HD2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4055:VAL:HG13	1:G:4058:ILE:HD11	1.94	0.49
1:A:515:TRP:HH2	1:A:555:GLU:HG3	1.65	0.49
1:A:3892:CYS:HB2	1:A:3967:GLU:HG3	1.95	0.49
1:A:4020:GLN:HE21	1:A:4024:VAL:HG13	1.77	0.49
1:C:244:LEU:HD22	1:C:375:LYS:HE2	1.95	0.49
1:C:597:HIS:ND1	1:C:597:HIS:N	2.60	0.49
1:C:2125:HIS:CE1	1:C:3724:ALA:HB1	2.47	0.49
1:E:2155:LEU:HD21	1:E:2198:MET:SD	2.53	0.49
1:E:4851:TYR:CD2	1:E:4920:PHE:HD1	2.30	0.49
1:E:4877:ASP:HB3	1:G:4582:VAL:HG12	1.94	0.49
1:E:4973:HIS:ND1	1:E:4973:HIS:O	2.46	0.49
1:G:49:LEU:HD21	1:G:191:VAL:CG2	2.42	0.49
1:G:579:GLN:H	1:G:582:HIS:HD2	1.60	0.49
1:G:617:ASN:O	1:G:621:ILE:HG12	2.12	0.49
1:G:858:THR:HG21	1:G:991:ASN:HD21	1.78	0.49
1:A:1731:LEU:HA	1:A:1772:ARG:HH21	1.77	0.49
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.12	0.49
1:A:2155:LEU:HD21	1:A:2198:MET:SD	2.53	0.49
1:A:4877:ASP:HB3	1:C:4582:VAL:HG12	1.94	0.49
1:C:4680:LYS:C	1:C:4684:ASP:HB2	2.32	0.49
1:C:4687:TYR:CD1	1:C:4687:TYR:N	2.80	0.49
1:E:156:GLN:HE22	1:G:225:GLY:C	2.16	0.49
1:E:793:LEU:HD22	1:E:811:CYS:HB3	1.92	0.49
1:E:1240:LYS:O	1:E:1607:ARG:HA	2.13	0.49
1:E:4181:ILE:CD1	1:E:4991:PHE:CD1	2.95	0.49
1:E:4693:GLY:O	1:E:4695:ASP:O	2.30	0.49
1:E:4720:VAL:O	1:E:4724:VAL:HG23	2.12	0.49
1:G:37:LEU:HD11	1:G:47:CYS:HB3	1.93	0.49
1:G:554:LEU:CD1	1:G:593:HIS:HE2	2.25	0.49
1:G:1519:LEU:HD12	1:G:1526:LEU:O	2.12	0.49
1:G:1743:ARG:CG	1:G:1963:GLU:CG	2.86	0.49
1:G:2125:HIS:CE1	1:G:3724:ALA:HB1	2.47	0.49
1:G:3886:ARG:O	1:G:3890:LEU:HD13	2.12	0.49
1:A:454:PRO:HG2	1:A:531:ARG:HH11	1.78	0.49
1:A:592:LYS:HE3	1:A:1596:GLU:OE1	2.13	0.49
1:A:641:VAL:HG11	1:A:704:GLY:HA2	1.93	0.49
1:A:743:VAL:N	1:A:760:ASN:OD1	2.45	0.49
1:A:1966:VAL:HG21	1:A:3650:CYS:HA	1.94	0.49
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.13	0.49
1:A:4693:GLY:O	1:A:4695:ASP:O	2.30	0.49
1:C:234:SER:O	1:C:242:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:680:THR:HG23	1:C:785:ALA:CB	2.42	0.49
1:C:681:HIS:O	1:C:682:LEU:HD13	2.13	0.49
1:C:736:HIS:NE2	1:C:739:ALA:CB	2.76	0.49
1:C:1739:THR:O	1:C:1742:THR:OG1	2.17	0.49
1:C:3669:PHE:CD1	1:C:3669:PHE:N	2.79	0.49
1:C:4059:LEU:HA	1:C:4062:PHE:HD2	1.78	0.49
1:C:4688:ILE:HG22	1:C:4732:PHE:HE2	1.78	0.49
1:C:4900:GLU:OE1	1:C:4900:GLU:HA	2.12	0.49
1:E:225:GLY:HA2	1:E:389:PHE:HE2	1.78	0.49
1:E:229:GLU:HA	1:E:249:GLY:HA2	1.94	0.49
1:E:1475:THR:HA	1:E:1486:SER:HA	1.94	0.49
1:E:4181:ILE:HG23	1:E:4195:PHE:CE2	2.48	0.49
1:G:46:LEU:HD12	1:G:125:ARG:NH2	2.28	0.49
1:G:454:PRO:HG2	1:G:531:ARG:HH11	1.78	0.49
1:G:600:LEU:CD2	1:G:1666:THR:N	2.76	0.49
1:G:4181:ILE:CD1	1:G:4991:PHE:CD1	2.95	0.49
1:G:4861:LYS:HG3	1:G:4862:PHE:CD1	2.47	0.49
1:A:1581:LEU:HD13	1:A:1594:ARG:C	2.33	0.49
1:A:1944:GLU:HB2	1:A:2123:LEU:HD11	1.93	0.49
1:A:2198:MET:HE1	1:A:2203:MET:HE1	1.91	0.49
1:C:280:LEU:N	1:C:314:PHE:O	2.42	0.49
1:C:619:ASP:O	1:C:623:GLU:HG2	2.12	0.49
1:C:842:PRO:HD2	1:C:1196:PRO:HA	1.94	0.49
1:C:1143:TRP:HB2	1:C:1147:ASP:HB2	1.95	0.49
1:C:1297:PHE:HB2	1:C:1545:ASN:CA	2.38	0.49
1:C:2128:TYR:O	1:C:3669:PHE:CD2	2.62	0.49
1:C:2155:LEU:HD21	1:C:2198:MET:SD	2.53	0.49
1:C:2198:MET:HB3	1:C:2203:MET:SD	2.53	0.49
1:E:454:PRO:HG2	1:E:531:ARG:HH11	1.78	0.49
1:E:4702:ASP:HA	1:E:4778:TRP:HE1	1.77	0.49
1:G:769:GLU:HG3	1:G:1475:THR:HG23	1.94	0.49
1:G:4059:LEU:HA	1:G:4062:PHE:HD2	1.78	0.49
1:G:4711:PHE:HB3	1:G:4712:PRO:HD3	1.95	0.49
1:G:4973:HIS:ND1	1:G:4973:HIS:O	2.46	0.49
1:A:225:GLY:C	1:G:156:GLN:HE22	2.16	0.49
1:A:1450:VAL:HG13	1:A:1552:VAL:HG22	1.93	0.49
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.48	0.49
1:A:4141:PHE:O	1:A:4145:VAL:HG23	2.12	0.49
1:A:4688:ILE:HG22	1:A:4732:PHE:HE2	1.78	0.49
1:C:3722:TYR:OH	1:C:3797:THR:HG22	2.13	0.49
1:C:4077:PHE:CE1	1:C:4088:ILE:HG21	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4178:LEU:HD12	1:C:4178:LEU:O	2.11	0.49
1:C:4851:TYR:CD2	1:C:4920:PHE:HD1	2.30	0.49
1:E:37:LEU:HD11	1:E:47:CYS:HB3	1.93	0.49
1:E:488:LEU:HG	1:E:546:TRP:CH2	2.47	0.49
1:E:617:ASN:O	1:E:621:ILE:HG12	2.12	0.49
1:E:1101:ARG:HB2	1:E:1193:SER:OG	2.12	0.49
1:E:3891:LEU:HD23	1:E:3899:PHE:HZ	1.77	0.49
1:E:4059:LEU:HA	1:E:4062:PHE:HD2	1.78	0.49
1:E:4901:ILE:HD13	1:E:4913:ARG:NH2	2.28	0.49
1:G:830:ARG:HH12	1:G:832:GLU:HB3	1.76	0.49
1:G:1450:VAL:HG13	1:G:1552:VAL:HG22	1.93	0.49
1:G:1731:LEU:HA	1:G:1772:ARG:HH21	1.77	0.49
1:G:2133:GLU:HG3	1:G:2136:ARG:NE	2.27	0.49
1:G:2788:HIS:CG	1:G:2789:PRO:HD2	2.48	0.49
1:G:3766:GLN:HG3	1:G:3769:ARG:NH2	2.28	0.49
1:G:3892:CYS:HB2	1:G:3967:GLU:HG3	1.95	0.49
1:A:244:LEU:HD22	1:A:375:LYS:HE2	1.95	0.49
1:A:4688:ILE:HD13	1:A:4688:ILE:N	2.28	0.49
1:A:4851:TYR:CD2	1:A:4920:PHE:HD1	2.30	0.49
1:A:4861:LYS:HG3	1:A:4862:PHE:CD1	2.47	0.49
1:C:156:GLN:HE22	1:E:225:GLY:C	2.16	0.49
1:C:266:ARG:HH11	1:C:330:ASP:HB2	1.78	0.49
1:C:291:LEU:HG	1:C:314:PHE:HE2	1.78	0.49
1:C:345:LEU:HD23	1:C:389:PHE:HB3	1.95	0.49
1:C:454:PRO:HG2	1:C:531:ARG:HH11	1.78	0.49
1:C:495:ASN:HB3	1:C:553:ARG:NH1	2.27	0.49
1:C:515:TRP:HH2	1:C:555:GLU:HG3	1.65	0.49
1:C:743:VAL:N	1:C:760:ASN:OD1	2.45	0.49
1:C:830:ARG:HH12	1:C:832:GLU:HB3	1.76	0.49
1:C:4020:GLN:HE21	1:C:4024:VAL:HG13	1.77	0.49
1:C:4141:PHE:O	1:C:4145:VAL:HG23	2.12	0.49
1:C:4181:ILE:O	1:C:4193:ILE:HG12	2.12	0.49
1:E:345:LEU:HD23	1:E:389:PHE:HB3	1.95	0.49
1:E:681:HIS:C	1:E:681:HIS:CD2	2.86	0.49
1:E:736:HIS:NE2	1:E:739:ALA:CB	2.76	0.49
1:E:1641:ILE:HG13	1:E:1643:GLU:HG2	1.95	0.49
1:G:628:GLY:C	1:G:630:GLU:H	2.15	0.49
1:G:2198:MET:HB3	1:G:2203:MET:SD	2.53	0.49
1:A:793:LEU:HD22	1:A:811:CYS:HB3	1.92	0.48
1:A:858:THR:HG21	1:A:991:ASN:HD21	1.78	0.48
1:A:1206:GLN:H	1:A:1227:ALA:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1438:ARG:HG3	1:A:1511:LEU:HD23	1.95	0.48
1:A:3669:PHE:CD1	1:A:3669:PHE:N	2.79	0.48
1:A:4077:PHE:CE1	1:A:4088:ILE:HG21	2.48	0.48
1:A:4680:LYS:C	1:A:4684:ASP:HB2	2.32	0.48
1:A:4901:ILE:HD13	1:A:4913:ARG:NH2	2.28	0.48
1:C:681:HIS:CB	1:C:716:PHE:CD1	2.96	0.48
1:C:1475:THR:HA	1:C:1486:SER:HA	1.94	0.48
1:C:1581:LEU:HD13	1:C:1594:ARG:C	2.33	0.48
1:C:1727:ARG:HD2	1:C:1772:ARG:HD3	1.95	0.48
1:C:4181:ILE:HG23	1:C:4195:PHE:CE2	2.48	0.48
2:D:40:ARG:C	2:D:43:ASN:H	2.14	0.48
1:E:125:ARG:HB3	1:E:134:ASP:OD1	2.09	0.48
1:E:255:HIS:CG	1:E:480:GLU:HG2	2.48	0.48
1:E:666:VAL:HG21	1:E:684:VAL:HG11	1.95	0.48
1:E:2788:HIS:CG	1:E:2789:PRO:HD2	2.48	0.48
1:E:3722:TYR:OH	1:E:3797:THR:HG22	2.13	0.48
1:E:3844:LEU:HD12	1:E:3933:PHE:HA	1.95	0.48
1:E:4688:ILE:HG22	1:E:4732:PHE:HE2	1.78	0.48
1:G:39:ALA:HB2	1:G:47:CYS:SG	2.53	0.48
1:G:225:GLY:HA2	1:G:389:PHE:HE2	1.78	0.48
1:G:244:LEU:HD22	1:G:375:LYS:HE2	1.95	0.48
1:G:255:HIS:CG	1:G:480:GLU:HG2	2.48	0.48
1:G:266:ARG:HH11	1:G:330:ASP:HB2	1.78	0.48
1:G:615:ARG:HH12	1:G:1678:ASN:HA	1.77	0.48
1:G:674:PHE:HE1	1:G:679:ALA:HB2	1.77	0.48
1:G:681:HIS:C	1:G:681:HIS:CD2	2.86	0.48
1:G:3793:MET:O	1:G:3797:THR:HG23	2.13	0.48
1:G:3891:LEU:HD23	1:G:3899:PHE:HZ	1.77	0.48
1:A:225:GLY:HA2	1:A:389:PHE:HE2	1.78	0.48
1:A:291:LEU:HG	1:A:314:PHE:HE2	1.78	0.48
1:A:495:ASN:HB3	1:A:553:ARG:NH1	2.27	0.48
1:A:681:HIS:O	1:A:682:LEU:HD13	2.13	0.48
1:A:769:GLU:HG3	1:A:1475:THR:HG23	1.94	0.48
1:A:1240:LYS:O	1:A:1607:ARG:HA	2.13	0.48
1:A:3722:TYR:OH	1:A:3797:THR:HG22	2.13	0.48
1:C:46:LEU:HD12	1:C:125:ARG:NH2	2.28	0.48
1:C:615:ARG:HH12	1:C:1678:ASN:HA	1.77	0.48
1:C:1206:GLN:H	1:C:1227:ALA:HB3	1.78	0.48
1:C:1438:ARG:HG3	1:C:1511:LEU:HD23	1.95	0.48
1:C:1729:SER:O	1:C:1732:SER:OG	2.23	0.48
1:C:1858:ASP:O	1:C:1862:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1937:LEU:HB2	1:C:2116:LEU:HD12	1.95	0.48
1:C:1943:LEU:HD21	1:C:2098:VAL:HG22	1.93	0.48
1:C:4688:ILE:HD13	1:C:4688:ILE:N	2.28	0.48
1:E:4055:VAL:HG13	1:E:4058:ILE:HD11	1.94	0.48
1:E:4077:PHE:CE1	1:E:4088:ILE:HG21	2.48	0.48
1:E:4680:LYS:O	1:E:4684:ASP:CB	2.59	0.48
1:G:488:LEU:HG	1:G:546:TRP:CH2	2.47	0.48
1:G:2128:TYR:O	1:G:3669:PHE:CD2	2.62	0.48
1:G:2210:VAL:O	1:G:2214:VAL:HG23	2.14	0.48
1:G:2870:GLU:OE2	1:G:2939:ARG:NE	2.42	0.48
1:G:4020:GLN:HE21	1:G:4024:VAL:HG13	1.77	0.48
1:A:533:ASN:HB2	1:A:536:ASN:ND2	2.23	0.48
1:A:554:LEU:CD2	1:A:593:HIS:CE1	2.95	0.48
1:A:592:LYS:HE3	1:A:1596:GLU:CD	2.31	0.48
1:A:681:HIS:C	1:A:681:HIS:CD2	2.86	0.48
1:A:721:LEU:HB2	1:A:768:PHE:CZ	2.49	0.48
1:A:736:HIS:NE2	1:A:739:ALA:CB	2.76	0.48
1:A:1858:ASP:O	1:A:1862:ILE:HG12	2.14	0.48
1:A:1937:LEU:HB2	1:A:2116:LEU:HD12	1.95	0.48
1:A:3699:HIS:HD2	1:A:3773:ARG:HA	1.77	0.48
1:A:4059:LEU:HA	1:A:4062:PHE:HD2	1.78	0.48
1:A:4582:VAL:HG12	1:G:4877:ASP:HB3	1.94	0.48
1:C:1518:CYS:HB3	1:C:1528:THR:OG1	2.13	0.48
1:E:592:LYS:HE3	1:E:1596:GLU:CD	2.31	0.48
1:E:600:LEU:CD2	1:E:1666:THR:N	2.76	0.48
1:E:767:VAL:HA	1:E:1475:THR:O	2.14	0.48
1:E:4020:GLN:HE21	1:E:4024:VAL:HG13	1.77	0.48
1:E:4961:CYS:HG	1:E:4983:HIS:CD2	2.30	0.48
1:G:345:LEU:HD23	1:G:389:PHE:HB3	1.95	0.48
1:G:736:HIS:NE2	1:G:739:ALA:CB	2.76	0.48
1:G:4181:ILE:HG23	1:G:4195:PHE:CE2	2.48	0.48
1:G:4664:LEU:O	1:G:4667:PRO:HD2	2.13	0.48
1:G:4688:ILE:HG22	1:G:4732:PHE:HE2	1.78	0.48
1:A:488:LEU:HG	1:A:546:TRP:CH2	2.47	0.48
1:A:628:GLY:C	1:A:630:GLU:H	2.15	0.48
1:A:842:PRO:HD2	1:A:1196:PRO:HA	1.94	0.48
1:A:1143:TRP:HB2	1:A:1147:ASP:HB2	1.95	0.48
1:A:1161:ILE:HG23	1:A:1168:VAL:HG13	1.96	0.48
1:A:4083:ASP:OD2	1:A:4087:LEU:CA	2.61	0.48
1:A:4157:ASP:O	1:A:4161:ARG:N	2.41	0.48
1:C:721:LEU:HB2	1:C:768:PHE:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1641:ILE:HG13	1:C:1643:GLU:HG2	1.95	0.48
1:C:1715:LEU:HD22	1:C:1844:LEU:HD11	1.96	0.48
1:C:3766:GLN:HG3	1:C:3769:ARG:NH2	2.28	0.48
1:C:4973:HIS:ND1	1:C:4973:HIS:O	2.46	0.48
1:E:842:PRO:HD2	1:E:1196:PRO:HA	1.94	0.48
1:E:1438:ARG:HG3	1:E:1511:LEU:HD23	1.95	0.48
1:E:1519:LEU:HD12	1:E:1526:LEU:O	2.12	0.48
1:E:2128:TYR:O	1:E:3669:PHE:CD2	2.62	0.48
1:E:2198:MET:HB3	1:E:2203:MET:SD	2.53	0.48
1:E:2210:VAL:O	1:E:2214:VAL:HG23	2.14	0.48
1:E:3793:MET:O	1:E:3797:THR:HG23	2.13	0.48
1:E:4904:PRO:CB	1:E:4910:GLU:HG3	2.35	0.48
1:G:681:HIS:CB	1:G:716:PHE:CD1	2.96	0.48
1:G:767:VAL:HA	1:G:1475:THR:O	2.14	0.48
1:G:3713:LYS:O	1:G:3714:SER:OG	2.29	0.48
1:G:4083:ASP:OD2	1:G:4087:LEU:CA	2.61	0.48
1:A:266:ARG:HH11	1:A:330:ASP:HB2	1.78	0.48
1:A:345:LEU:HD23	1:A:389:PHE:HB3	1.95	0.48
1:A:1518:CYS:HB3	1:A:1528:THR:OG1	2.13	0.48
1:A:1519:LEU:HD12	1:A:1526:LEU:O	2.12	0.48
1:A:3713:LYS:O	1:A:3714:SER:OG	2.29	0.48
1:A:3766:GLN:HG3	1:A:3769:ARG:NH2	2.28	0.48
1:A:4182:GLU:CD	1:A:4982:GLU:OE1	2.52	0.48
1:C:255:HIS:CG	1:C:480:GLU:HG2	2.48	0.48
1:C:600:LEU:CD2	1:C:1666:THR:N	2.76	0.48
1:C:681:HIS:C	1:C:681:HIS:CD2	2.86	0.48
1:C:1963:GLU:HA	1:C:1963:GLU:OE2	2.14	0.48
1:C:2144:ILE:HD13	1:C:2152:THR:HG21	1.96	0.48
1:C:2870:GLU:OE2	1:C:2939:ARG:NE	2.42	0.48
1:E:266:ARG:HH11	1:E:330:ASP:HB2	1.78	0.48
1:E:971:ASP:OD2	1:E:974:HIS:N	2.46	0.48
1:E:1093:GLU:HB2	1:E:1201:HIS:HB3	1.95	0.48
1:E:1581:LEU:HD13	1:E:1594:ARG:C	2.33	0.48
1:E:3766:GLN:HG3	1:E:3769:ARG:NH2	2.28	0.48
1:E:4003:LEU:O	1:E:4009:GLN:HB3	2.14	0.48
1:G:665:GLU:OE2	1:G:802:PHE:N	2.46	0.48
1:G:1093:GLU:HB2	1:G:1201:HIS:HB3	1.95	0.48
1:G:1966:VAL:HG21	1:G:3650:CYS:HA	1.94	0.48
1:G:2155:LEU:HD21	1:G:2198:MET:SD	2.53	0.48
1:G:3722:TYR:OH	1:G:3797:THR:HG22	2.13	0.48
1:A:156:GLN:HE22	1:C:225:GLY:C	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:597:HIS:ND1	1:A:597:HIS:N	2.60	0.48
1:A:666:VAL:HG21	1:A:684:VAL:HG11	1.95	0.48
1:A:1093:GLU:HB2	1:A:1201:HIS:HB3	1.95	0.48
1:A:2144:ILE:HD13	1:A:2152:THR:HG21	1.96	0.48
1:A:2198:MET:HB3	1:A:2203:MET:SD	2.53	0.48
1:A:3793:MET:O	1:A:3797:THR:HG23	2.13	0.48
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.95	0.48
2:B:36:PHE:HZ	2:B:99:PHE:HE1	1.61	0.48
1:C:110:ARG:HG2	1:C:111:HIS:O	2.14	0.48
1:C:635:THR:HG23	1:C:1693:GLN:HE22	1.79	0.48
1:C:666:VAL:HG21	1:C:684:VAL:HG11	1.95	0.48
1:C:858:THR:HG21	1:C:991:ASN:HD21	1.78	0.48
1:C:971:ASP:OD2	1:C:974:HIS:N	2.46	0.48
1:C:1240:LYS:O	1:C:1607:ARG:HA	2.13	0.48
1:C:3844:LEU:HD12	1:C:3933:PHE:HA	1.95	0.48
1:C:3957:VAL:O	1:C:3961:VAL:HG23	2.13	0.48
1:E:46:LEU:HD12	1:E:125:ARG:NH2	2.28	0.48
1:E:234:SER:O	1:E:242:ARG:NH1	2.45	0.48
1:E:681:HIS:CB	1:E:716:PHE:CD1	2.96	0.48
1:E:1518:CYS:HB3	1:E:1528:THR:OG1	2.13	0.48
1:E:1727:ARG:HD2	1:E:1772:ARG:HD3	1.95	0.48
1:E:1966:VAL:HG21	1:E:3650:CYS:HA	1.94	0.48
1:E:4083:ASP:OD2	1:E:4087:LEU:CB	2.62	0.48
2:F:36:PHE:HZ	2:F:99:PHE:HE1	1.61	0.48
1:G:971:ASP:OD2	1:G:974:HIS:N	2.46	0.48
1:G:1161:ILE:HG23	1:G:1168:VAL:HG13	1.96	0.48
1:G:1297:PHE:HB2	1:G:1545:ASN:CA	2.38	0.48
1:G:1867:GLU:HG2	1:G:2097:LEU:HD22	1.96	0.48
1:A:595:ARG:HH22	1:A:1641:ILE:HD13	1.78	0.48
1:A:1639:LEU:HG	1:A:1648:MET:O	2.14	0.48
1:A:1662:PHE:O	1:A:1666:THR:HG23	2.14	0.48
1:A:2210:VAL:O	1:A:2214:VAL:HG23	2.14	0.48
1:A:2257:LEU:HD21	1:A:2275:VAL:HB	1.96	0.48
1:A:3951:PHE:HD2	1:A:4012:LEU:HD21	1.79	0.48
1:C:45:ARG:NH2	1:C:116:MET:HE1	2.17	0.48
1:C:1720:LEU:HD22	1:C:1851:MET:SD	2.54	0.48
1:C:2257:LEU:HD21	1:C:2275:VAL:HB	1.96	0.48
1:C:4159:ARG:HG3	1:C:4160:LEU:N	2.29	0.48
1:E:1283:LEU:HD23	1:E:1285:GLU:H	1.79	0.48
1:E:1743:ARG:CB	1:E:1963:GLU:CG	2.92	0.48
1:E:3901:ASN:O	1:E:3905:THR:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:537:CYS:SG	1:G:567:VAL:HA	2.54	0.48
1:G:1283:LEU:HD23	1:G:1285:GLU:H	1.79	0.48
1:G:1581:LEU:HD13	1:G:1594:ARG:C	2.33	0.48
1:G:2166:LEU:HG	1:G:2209:GLU:OE1	2.14	0.48
1:G:4159:ARG:HG3	1:G:4160:LEU:N	2.29	0.48
1:A:384:MET:HE1	1:G:167:ASP:OD1	2.06	0.48
1:A:600:LEU:CD2	1:A:1666:THR:N	2.76	0.48
1:A:971:ASP:OD2	1:A:974:HIS:N	2.46	0.48
1:A:1283:LEU:HD23	1:A:1285:GLU:H	1.79	0.48
1:A:1720:LEU:HD22	1:A:1851:MET:SD	2.54	0.48
1:A:2166:LEU:HG	1:A:2209:GLU:OE1	2.14	0.48
1:A:3957:VAL:O	1:A:3961:VAL:HG23	2.13	0.48
1:C:1662:PHE:O	1:C:1666:THR:HG23	2.14	0.48
1:C:1867:GLU:HG2	1:C:2097:LEU:HD22	1.96	0.48
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.48	0.48
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.14	0.48
1:E:39:ALA:HB2	1:E:47:CYS:SG	2.53	0.48
1:E:615:ARG:HH12	1:E:1678:ASN:HA	1.77	0.48
1:E:1161:ILE:HG23	1:E:1168:VAL:HG13	1.96	0.48
1:E:4664:LEU:O	1:E:4667:PRO:HD2	2.13	0.48
1:E:4961:CYS:SG	1:E:4983:HIS:NE2	2.86	0.48
1:G:183:SER:O	1:G:190:GLN:N	2.34	0.48
1:G:721:LEU:HB2	1:G:768:PHE:CZ	2.49	0.48
1:G:1206:GLN:H	1:G:1227:ALA:HB3	1.78	0.48
1:G:1475:THR:HA	1:G:1486:SER:HA	1.94	0.48
1:G:3901:ASN:O	1:G:3905:THR:HG22	2.14	0.48
1:G:3957:VAL:O	1:G:3961:VAL:HG23	2.13	0.48
1:G:4961:CYS:SG	1:G:4983:HIS:NE2	2.86	0.48
1:A:39:ALA:HB2	1:A:47:CYS:SG	2.53	0.48
1:A:750:LEU:O	1:A:751:SER:OG	2.23	0.48
1:A:1715:LEU:HD22	1:A:1844:LEU:HD11	1.96	0.48
1:A:1867:GLU:HG2	1:A:2097:LEU:HD22	1.96	0.48
1:A:1963:GLU:HA	1:A:1963:GLU:OE2	2.14	0.48
1:C:767:VAL:HA	1:C:1475:THR:O	2.14	0.48
1:C:1232:ARG:HE	1:C:1701:ALA:HB3	1.79	0.48
1:C:1743:ARG:CB	1:C:1963:GLU:CG	2.92	0.48
1:C:2210:VAL:O	1:C:2214:VAL:HG23	2.14	0.48
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.95	0.48
1:E:628:GLY:C	1:E:630:GLU:H	2.15	0.48
1:E:1206:GLN:H	1:E:1227:ALA:HB3	1.78	0.48
1:E:1720:LEU:HD22	1:E:1851:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4049:VAL:CG2	1:E:4159:ARG:HD3	2.42	0.48
1:G:1438:ARG:HG3	1:G:1511:LEU:HD23	1.95	0.48
1:G:1641:ILE:HG13	1:G:1643:GLU:HG2	1.95	0.48
1:G:1963:GLU:HA	1:G:1963:GLU:OE2	2.14	0.48
1:G:2066:LEU:HD13	1:G:2069:THR:OG1	2.14	0.48
1:G:3878:ASP:O	1:G:3881:THR:OG1	2.18	0.48
1:G:4179:GLY:O	1:G:4195:PHE:CE2	2.67	0.48
1:A:519:VAL:CG1	1:A:555:GLU:OE1	2.62	0.48
1:A:537:CYS:SG	1:A:567:VAL:HA	2.54	0.48
1:A:767:VAL:HA	1:A:1475:THR:O	2.14	0.48
1:A:1853:ILE:CG2	1:A:1854:PHE:CE1	2.97	0.48
1:A:3702:VAL:HG13	1:A:3778:MET:SD	2.54	0.48
1:A:4083:ASP:OD2	1:A:4087:LEU:HB2	2.14	0.48
1:A:4159:ARG:HG3	1:A:4160:LEU:N	2.29	0.48
1:A:4181:ILE:HB	1:A:4988:TYR:CE1	2.49	0.48
1:C:1161:ILE:HG23	1:C:1168:VAL:HG13	1.96	0.48
1:C:2166:LEU:HG	1:C:2209:GLU:OE1	2.14	0.48
1:C:2248:ARG:HG2	1:C:2286:LEU:HD11	1.96	0.48
1:C:3647:HIS:CE1	1:C:3648:ARG:HG2	2.49	0.48
1:C:3916:ILE:HD13	1:C:3976:ASN:OD1	2.14	0.48
1:C:4083:ASP:OD2	1:C:4087:LEU:CA	2.61	0.48
1:E:291:LEU:HG	1:E:314:PHE:HE2	1.78	0.48
1:E:317:ARG:NH2	1:E:321:GLU:O	2.47	0.48
1:E:358:THR:OG1	1:E:359:TYR:N	2.46	0.48
1:E:595:ARG:HH22	1:E:1641:ILE:HD13	1.78	0.48
1:E:683:ARG:NH1	1:E:722:TRP:HB3	2.29	0.48
1:E:858:THR:HG21	1:E:991:ASN:HD21	1.78	0.48
1:E:2855:TYR:CD2	1:E:2857:PRO:HD3	2.49	0.48
1:E:3647:HIS:CE1	1:E:3648:ARG:HG2	2.49	0.48
1:E:4159:ARG:HG3	1:E:4160:LEU:N	2.29	0.48
1:G:291:LEU:HG	1:G:314:PHE:HE2	1.78	0.48
1:G:666:VAL:HG21	1:G:684:VAL:HG11	1.95	0.48
1:G:842:PRO:HD2	1:G:1196:PRO:HA	1.94	0.48
1:G:1733:GLU:CD	1:G:2163:ARG:HH22	2.17	0.48
1:G:4181:ILE:HB	1:G:4988:TYR:CE1	2.49	0.48
1:A:1257:VAL:HA	1:A:1277:TRP:CE2	2.50	0.47
1:A:1733:GLU:CD	1:A:2163:ARG:HH22	2.17	0.47
1:A:3901:ASN:O	1:A:3905:THR:HG22	2.14	0.47
1:A:3974:THR:HG23	1:A:3975:GLY:N	2.29	0.47
1:C:1093:GLU:HB2	1:C:1201:HIS:HB3	1.95	0.47
1:C:1158:ASN:O	1:C:1181:GLU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3702:VAL:HG13	1:C:3778:MET:SD	2.54	0.47
1:C:3793:MET:O	1:C:3797:THR:HG23	2.13	0.47
1:C:3805:LEU:HB2	1:C:3890:LEU:HD23	1.96	0.47
1:C:3974:THR:HG23	1:C:3975:GLY:N	2.29	0.47
1:C:4003:LEU:O	1:C:4009:GLN:HB3	2.14	0.47
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.13	0.47
2:D:36:PHE:HZ	2:D:99:PHE:HE1	1.61	0.47
1:E:520:ASN:CG	1:E:556:ALA:HB1	2.35	0.47
1:E:649:PHE:CD1	1:E:778:PHE:HB3	2.49	0.47
1:E:721:LEU:HB2	1:E:768:PHE:CZ	2.49	0.47
1:E:1143:TRP:HB2	1:E:1147:ASP:HB2	1.95	0.47
1:E:1766:GLY:CA	1:E:1856:ASP:OD1	2.62	0.47
1:E:1867:GLU:HG2	1:E:2097:LEU:HD22	1.96	0.47
1:E:2248:ARG:HG2	1:E:2286:LEU:HD11	1.96	0.47
1:E:3702:VAL:HG13	1:E:3778:MET:SD	2.54	0.47
1:E:3805:LEU:HB2	1:E:3890:LEU:HD23	1.96	0.47
1:E:3916:ILE:HD13	1:E:3976:ASN:OD1	2.14	0.47
1:E:4182:GLU:CD	1:E:4982:GLU:OE1	2.52	0.47
1:E:4187:SER:CB	1:E:4189:ARG:NE	2.77	0.47
1:E:4778:TRP:O	1:E:4782:VAL:HG23	2.14	0.47
1:G:682:LEU:HD22	1:G:787:VAL:HG11	1.86	0.47
1:G:683:ARG:NH1	1:G:722:TRP:HB3	2.29	0.47
1:G:1858:ASP:O	1:G:1862:ILE:HG12	2.14	0.47
1:G:3916:ILE:HD13	1:G:3976:ASN:OD1	2.14	0.47
1:G:4083:ASP:OD2	1:G:4087:LEU:CB	2.62	0.47
1:A:255:HIS:CG	1:A:480:GLU:HG2	2.48	0.47
1:A:317:ARG:NH2	1:A:321:GLU:O	2.47	0.47
1:A:635:THR:HG23	1:A:1693:GLN:HE22	1.79	0.47
1:A:681:HIS:CB	1:A:716:PHE:CD1	2.96	0.47
1:A:1207:ASP:O	1:A:1210:SER:OG	2.24	0.47
1:A:2498:HIS:O	1:A:2502:MET:HG2	2.15	0.47
1:A:3926:LEU:O	1:A:3930:ILE:HG12	2.15	0.47
1:A:4003:LEU:O	1:A:4009:GLN:HB3	2.14	0.47
1:A:4578:LEU:O	1:G:4879:MET:HB3	2.14	0.47
1:C:39:ALA:HB2	1:C:47:CYS:SG	2.53	0.47
1:C:225:GLY:HA2	1:C:389:PHE:HE2	1.78	0.47
1:C:1283:LEU:HD23	1:C:1285:GLU:H	1.79	0.47
1:C:2742:THR:O	1:C:2814:LYS:HD3	2.14	0.47
1:C:3926:LEU:O	1:C:3930:ILE:HG12	2.15	0.47
1:C:4083:ASP:OD2	1:C:4087:LEU:CB	2.62	0.47
1:E:635:THR:HG23	1:E:1693:GLN:HE22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1963:GLU:HA	1:E:1963:GLU:OE2	2.14	0.47
1:E:2742:THR:O	1:E:2814:LYS:HD3	2.14	0.47
1:E:3892:CYS:HB2	1:E:3967:GLU:HG3	1.95	0.47
1:E:3993:LEU:C	1:E:4054:ASN:HD21	2.17	0.47
1:G:317:ARG:NH2	1:G:321:GLU:O	2.47	0.47
1:G:414:PHE:CD1	1:G:441:VAL:HG21	2.49	0.47
1:G:592:LYS:HE3	1:G:1596:GLU:OE1	2.13	0.47
1:G:595:ARG:HH22	1:G:1641:ILE:HD13	1.78	0.47
1:G:649:PHE:CD1	1:G:778:PHE:HB3	2.49	0.47
1:G:1518:CYS:HB3	1:G:1528:THR:OG1	2.13	0.47
1:G:1639:LEU:HG	1:G:1648:MET:O	2.14	0.47
1:G:3926:LEU:O	1:G:3930:ILE:HG12	2.15	0.47
1:G:4688:ILE:HD13	1:G:4688:ILE:N	2.28	0.47
1:G:4691:GLN:HG3	1:G:4692:PRO:N	2.29	0.47
2:H:36:PHE:HZ	2:H:99:PHE:HE1	1.61	0.47
1:A:626:LEU:HB3	1:A:1688:HIS:NE2	2.30	0.47
1:A:1232:ARG:HE	1:A:1701:ALA:HB3	1.79	0.47
1:A:1245:PHE:HB2	1:A:1602:PRO:HB2	1.97	0.47
1:A:1727:ARG:HD2	1:A:1772:ARG:HD3	1.95	0.47
1:A:1766:GLY:CA	1:A:1856:ASP:OD1	2.62	0.47
1:A:2248:ARG:HG2	1:A:2286:LEU:HD11	1.96	0.47
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.14	0.47
1:C:265:LEU:HG	1:C:280:LEU:HA	1.96	0.47
1:C:519:VAL:CG1	1:C:555:GLU:OE1	2.62	0.47
1:C:592:LYS:HE3	1:C:1596:GLU:OE1	2.13	0.47
1:C:2498:HIS:O	1:C:2502:MET:HG2	2.15	0.47
1:C:4554:TYR:HA	1:C:4557:ARG:HG2	1.96	0.47
1:C:4680:LYS:O	1:C:4684:ASP:CB	2.59	0.47
1:E:1715:LEU:HD22	1:E:1844:LEU:HD11	1.96	0.47
1:E:1835:GLU:CG	1:E:1932:PRO:HB2	2.45	0.47
1:E:1853:ILE:CG2	1:E:1854:PHE:CE1	2.97	0.47
1:E:2144:ILE:HD13	1:E:2152:THR:HG21	1.96	0.47
1:E:4083:ASP:OD2	1:E:4087:LEU:HB2	2.14	0.47
1:E:4688:ILE:HD13	1:E:4688:ILE:N	2.28	0.47
1:E:4711:PHE:HB3	1:E:4712:PRO:HD3	1.95	0.47
1:G:110:ARG:HG2	1:G:111:HIS:O	2.14	0.47
1:G:515:TRP:HA	1:G:518:ILE:HD12	1.97	0.47
1:G:626:LEU:HB3	1:G:1688:HIS:NE2	2.30	0.47
1:G:1720:LEU:HD22	1:G:1851:MET:SD	2.54	0.47
1:G:3647:HIS:CE1	1:G:3648:ARG:HG2	2.49	0.47
1:A:649:PHE:CD1	1:A:778:PHE:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2742:THR:O	1:A:2814:LYS:HD3	2.14	0.47
1:A:3705:PHE:CD1	1:A:3722:TYR:HD1	2.32	0.47
1:A:4554:TYR:HA	1:A:4557:ARG:HG2	1.96	0.47
1:A:4676:GLU:O	1:A:4680:LYS:HG3	2.15	0.47
1:C:103:TYR:HB2	1:C:159:GLU:HA	1.96	0.47
1:C:515:TRP:HA	1:C:518:ILE:HD12	1.97	0.47
1:C:595:ARG:HH2	1:C:1641:ILE:HD13	1.78	0.47
1:C:665:GLU:OE2	1:C:802:PHE:N	2.46	0.47
1:C:1111:PRO:HB3	1:C:1609:PRO:HG3	1.97	0.47
1:C:1245:PHE:HB2	1:C:1602:PRO:HB2	1.97	0.47
1:C:1767:VAL:HG23	1:C:1768:THR:N	2.30	0.47
1:C:2066:LEU:HD13	1:C:2069:THR:OG1	2.14	0.47
1:C:4691:GLN:HG3	1:C:4692:PRO:N	2.29	0.47
1:E:110:ARG:HG2	1:E:111:HIS:O	2.14	0.47
1:E:1123:VAL:O	1:E:1132:TRP:N	2.30	0.47
1:E:1662:PHE:O	1:E:1666:THR:HG23	2.14	0.47
1:E:1858:ASP:O	1:E:1862:ILE:HG12	2.14	0.47
1:E:2066:LEU:HD13	1:E:2069:THR:OG1	2.14	0.47
1:E:3926:LEU:O	1:E:3930:ILE:HG12	2.15	0.47
1:E:4181:ILE:HB	1:E:4988:TYR:CE1	2.49	0.47
1:E:4554:TYR:HA	1:E:4557:ARG:HG2	1.96	0.47
1:G:441:VAL:O	1:G:445:LEU:HD13	2.14	0.47
1:G:519:VAL:CG1	1:G:555:GLU:OE1	2.62	0.47
1:G:614:VAL:HG13	1:G:617:ASN:HB3	1.96	0.47
1:G:743:VAL:N	1:G:760:ASN:OD1	2.45	0.47
1:G:841:GLY:HA2	1:G:843:SER:N	2.23	0.47
1:G:1766:GLY:CA	1:G:1856:ASP:OD1	2.62	0.47
1:G:1767:VAL:HG23	1:G:1768:THR:N	2.30	0.47
1:G:2227:LYS:O	1:G:2230:THR:OG1	2.18	0.47
1:G:2259:GLU:HA	1:G:2301:TYR:OH	2.15	0.47
1:G:2498:HIS:O	1:G:2501:SER:OG	2.22	0.47
1:G:3844:LEU:HD12	1:G:3933:PHE:HA	1.95	0.47
1:G:3951:PHE:HD2	1:G:4012:LEU:HD21	1.79	0.47
1:G:4901:ILE:HD13	1:G:4913:ARG:NH2	2.28	0.47
1:A:2066:LEU:HD13	1:A:2069:THR:OG1	2.14	0.47
1:A:4179:GLY:O	1:A:4195:PHE:CE2	2.67	0.47
1:C:317:ARG:NH2	1:C:321:GLU:O	2.47	0.47
1:C:414:PHE:CD1	1:C:441:VAL:HG21	2.49	0.47
1:E:103:TYR:CD2	1:E:161:GLU:O	2.68	0.47
1:E:515:TRP:HA	1:E:518:ILE:HD12	1.97	0.47
1:E:537:CYS:SG	1:E:567:VAL:HA	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:835:ARG:NH2	1:E:1211:LEU:HD13	2.24	0.47
1:E:1111:PRO:HB3	1:E:1609:PRO:HG3	1.97	0.47
1:E:1245:PHE:HB2	1:E:1602:PRO:HB2	1.97	0.47
1:E:3705:PHE:CD1	1:E:3722:TYR:HD1	2.32	0.47
1:E:3957:VAL:O	1:E:3961:VAL:HG23	2.13	0.47
1:E:4676:GLU:O	1:E:4680:LYS:HG3	2.15	0.47
1:E:4879:MET:HB3	1:G:4578:LEU:O	2.14	0.47
1:E:4898:GLY:HA2	1:E:4901:ILE:HG21	1.95	0.47
1:G:635:THR:HG23	1:G:1693:GLN:HE22	1.79	0.47
1:G:1143:TRP:HB2	1:G:1147:ASP:HB2	1.95	0.47
1:G:1232:ARG:HE	1:G:1701:ALA:HB3	1.79	0.47
1:G:1775:HIS:HE1	1:G:1804:LEU:HD21	1.80	0.47
2:H:40:ARG:C	2:H:43:ASN:H	2.14	0.47
1:A:110:ARG:HG2	1:A:111:HIS:O	2.14	0.47
1:A:531:ARG:HG2	1:A:566:CYS:SG	2.54	0.47
1:A:614:VAL:HG13	1:A:617:ASN:HB3	1.96	0.47
1:A:748:LEU:HD13	1:A:755:ILE:HG13	1.96	0.47
1:A:1110:ARG:NH2	1:A:1251:GLU:OE1	2.48	0.47
1:A:1641:ILE:HG13	1:A:1643:GLU:HG2	1.95	0.47
1:A:1762:LEU:HD13	1:A:1763:PRO:N	2.30	0.47
1:A:2855:TYR:CD2	1:A:2857:PRO:HD3	2.49	0.47
1:A:3805:LEU:HB2	1:A:3890:LEU:HD23	1.96	0.47
1:A:4083:ASP:OD2	1:A:4087:LEU:CB	2.62	0.47
1:A:4852:THR:HG21	1:A:4883:TYR:HB2	1.97	0.47
1:C:223:PHE:HE1	1:C:253:CYS:HG	1.61	0.47
1:C:614:VAL:HG13	1:C:617:ASN:HB3	1.96	0.47
1:C:649:PHE:CD1	1:C:778:PHE:HB3	2.49	0.47
1:C:664:PHE:HB2	1:C:793:LEU:HD23	1.96	0.47
1:C:1766:GLY:CA	1:C:1856:ASP:OD1	2.62	0.47
1:C:1835:GLU:CG	1:C:1932:PRO:HB2	2.45	0.47
1:C:3892:CYS:HB2	1:C:3967:GLU:HG3	1.95	0.47
1:C:3958:ALA:HB3	1:C:4019:LEU:HD11	1.96	0.47
1:E:675:LEU:O	1:E:676:THR:OG1	2.28	0.47
1:E:1767:VAL:HG23	1:E:1768:THR:N	2.30	0.47
1:E:1775:HIS:HE1	1:E:1804:LEU:HD21	1.80	0.47
1:E:3841:VAL:CG2	1:E:3925:ARG:HD3	2.45	0.47
1:E:3878:ASP:O	1:E:3881:THR:OG1	2.18	0.47
1:E:4852:THR:HG21	1:E:4883:TYR:HB2	1.97	0.47
1:G:1254:HIS:CD2	1:G:1280:GLN:HB3	2.50	0.47
1:G:1294:PRO:HD3	1:G:1549:PHE:CE1	2.50	0.47
1:G:1835:GLU:CG	1:G:1932:PRO:HB2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2277:ALA:O	1:G:2281:ILE:HG13	2.15	0.47
1:G:2855:TYR:CD2	1:G:2857:PRO:HD3	2.49	0.47
1:G:3705:PHE:CD1	1:G:3722:TYR:HD1	2.32	0.47
1:G:3958:ALA:HB3	1:G:4019:LEU:HD11	1.96	0.47
1:G:4003:LEU:O	1:G:4009:GLN:HB3	2.14	0.47
1:G:4083:ASP:OD2	1:G:4087:LEU:HB2	2.14	0.47
1:G:4182:GLU:CD	1:G:4982:GLU:OE1	2.52	0.47
1:A:1111:PRO:HB3	1:A:1609:PRO:HG3	1.97	0.47
1:A:1478:ASP:C	1:A:1480:GLN:N	2.68	0.47
1:A:2277:ALA:O	1:A:2281:ILE:HG13	2.15	0.47
1:A:3969:ILE:HG21	1:A:4030:LEU:HA	1.97	0.47
1:A:4181:ILE:HG23	1:A:4195:PHE:CE2	2.48	0.47
1:A:4181:ILE:CG2	1:A:4195:PHE:CE2	2.98	0.47
1:A:4879:MET:HB3	1:C:4578:LEU:O	2.14	0.47
1:C:52:THR:HG22	1:C:60:PRO:HB3	1.97	0.47
1:C:284:HIS:HD2	1:C:287:THR:H	1.63	0.47
1:C:473:ASN:O	1:C:477:LEU:HG	2.15	0.47
1:C:531:ARG:HG2	1:C:566:CYS:SG	2.54	0.47
1:C:748:LEU:HD13	1:C:755:ILE:HG13	1.96	0.47
1:C:1639:LEU:HG	1:C:1648:MET:O	2.14	0.47
1:C:1775:HIS:HE1	1:C:1804:LEU:HD21	1.80	0.47
1:C:1815:LEU:HB3	1:C:1865:MET:SD	2.55	0.47
1:C:3713:LYS:O	1:C:3714:SER:OG	2.29	0.47
1:C:3901:ASN:O	1:C:3905:THR:HG22	2.14	0.47
1:C:4031:LEU:HD11	1:C:4044:MET:SD	2.55	0.47
1:C:4181:ILE:HB	1:C:4988:TYR:CE1	2.49	0.47
1:C:4181:ILE:CG2	1:C:4195:PHE:CE2	2.98	0.47
1:C:4187:SER:CB	1:C:4189:ARG:NE	2.77	0.47
1:C:4852:THR:HG21	1:C:4883:TYR:HB2	1.97	0.47
1:C:4879:MET:HB3	1:E:4578:LEU:O	2.14	0.47
1:E:223:PHE:HA	1:E:230:CYS:HA	1.97	0.47
1:E:280:LEU:N	1:E:314:PHE:O	2.42	0.47
1:E:414:PHE:CD1	1:E:441:VAL:HG21	2.49	0.47
1:E:441:VAL:O	1:E:445:LEU:HD13	2.14	0.47
1:E:519:VAL:CG1	1:E:555:GLU:OE1	2.62	0.47
1:E:540:PHE:HA	1:E:543:ASN:HB3	1.97	0.47
1:E:626:LEU:HB3	1:E:1688:HIS:NE2	2.30	0.47
1:E:748:LEU:HD13	1:E:755:ILE:HG13	1.96	0.47
1:E:764:VAL:O	1:E:764:VAL:HG12	2.14	0.47
1:E:1232:ARG:HE	1:E:1701:ALA:HB3	1.79	0.47
1:E:2146:PRO:O	1:E:2149:VAL:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2498:HIS:O	1:E:2502:MET:HG2	2.15	0.47
1:E:3835:LEU:HD11	1:E:3880:PHE:HZ	1.80	0.47
1:E:4031:LEU:HD11	1:E:4044:MET:SD	2.55	0.47
1:E:4083:ASP:OD2	1:E:4087:LEU:CA	2.61	0.47
1:E:4181:ILE:CG2	1:E:4195:PHE:CE2	2.98	0.47
1:E:4239:GLU:OE2	1:E:5014:TYR:OH	2.29	0.47
1:E:4687:TYR:CD1	1:E:4687:TYR:N	2.80	0.47
1:E:4794:TRP:HA	1:E:4797:VAL:HG12	1.97	0.47
1:G:103:TYR:CD2	1:G:161:GLU:O	2.68	0.47
1:G:223:PHE:HA	1:G:230:CYS:HA	1.97	0.47
1:G:1110:ARG:NH2	1:G:1251:GLU:OE1	2.48	0.47
1:G:1245:PHE:HB2	1:G:1602:PRO:HB2	1.97	0.47
1:G:1257:VAL:HA	1:G:1277:TRP:CE2	2.50	0.47
1:G:1662:PHE:O	1:G:1666:THR:HG23	2.14	0.47
1:G:1727:ARG:HD2	1:G:1772:ARG:HD3	1.95	0.47
1:G:1762:LEU:HD13	1:G:1763:PRO:N	2.30	0.47
1:G:1853:ILE:HG22	1:G:1854:PHE:HD1	1.67	0.47
1:G:1853:ILE:CG2	1:G:1854:PHE:CE1	2.97	0.47
1:G:2142:TYR:CE2	1:G:2197:LEU:HB2	2.50	0.47
1:G:2146:PRO:O	1:G:2149:VAL:HG22	2.15	0.47
1:G:2248:ARG:HG2	1:G:2286:LEU:HD11	1.96	0.47
1:G:2742:THR:O	1:G:2814:LYS:HD3	2.14	0.47
1:G:3702:VAL:HG13	1:G:3778:MET:SD	2.54	0.47
1:G:3841:VAL:CG2	1:G:3925:ARG:HD3	2.45	0.47
1:G:4049:VAL:CG2	1:G:4159:ARG:HD3	2.42	0.47
1:G:4077:PHE:CE1	1:G:4088:ILE:HG21	2.48	0.47
1:G:4554:TYR:HA	1:G:4557:ARG:HG2	1.96	0.47
1:G:4676:GLU:O	1:G:4680:LYS:HG3	2.15	0.47
1:G:4794:TRP:HA	1:G:4797:VAL:HG12	1.97	0.47
1:G:4852:THR:HG21	1:G:4883:TYR:HB2	1.97	0.47
1:A:265:LEU:HG	1:A:280:LEU:HA	1.96	0.47
1:A:299:LEU:HB2	1:A:378:LEU:HG	1.97	0.47
1:A:473:ASN:O	1:A:477:LEU:HG	2.15	0.47
1:A:1294:PRO:HD3	1:A:1549:PHE:CE1	2.50	0.47
1:A:1698:LEU:HG	1:A:1712:TYR:HE1	1.79	0.47
1:A:2259:GLU:HA	1:A:2301:TYR:OH	2.15	0.47
1:A:3780:LEU:HD11	1:A:3820:LEU:HD21	1.97	0.47
1:C:537:CYS:SG	1:C:567:VAL:HA	2.54	0.47
1:C:2431:ASP:HB2	1:C:2501:SER:HB2	1.97	0.47
1:C:4083:ASP:OD2	1:C:4087:LEU:HB2	2.14	0.47
1:C:4693:GLY:C	1:C:4695:ASP:N	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:GLN:CB	1:E:13:PHE:CD1	2.97	0.47
1:E:52:THR:HG22	1:E:60:PRO:HB3	1.97	0.47
1:E:619:ASP:O	1:E:622:THR:OG1	2.27	0.47
1:E:841:GLY:HA2	1:E:843:SER:N	2.23	0.47
1:E:1835:GLU:HG3	1:E:1932:PRO:HB2	1.97	0.47
1:E:2431:ASP:HB2	1:E:2501:SER:HB2	1.97	0.47
1:E:4157:ASP:O	1:E:4161:ARG:N	2.41	0.47
1:G:473:ASN:O	1:G:477:LEU:HG	2.15	0.47
1:G:2257:LEU:HD21	1:G:2275:VAL:HB	1.96	0.47
1:A:414:PHE:CD1	1:A:441:VAL:HG21	2.49	0.47
1:A:1775:HIS:HE1	1:A:1804:LEU:HD21	1.80	0.47
1:A:3844:LEU:HD12	1:A:3933:PHE:HA	1.95	0.47
1:A:3958:ALA:HB3	1:A:4019:LEU:HD11	1.96	0.47
1:A:4187:SER:CB	1:A:4189:ARG:NE	2.77	0.47
1:C:179:TYR:CD2	1:C:195:PHE:O	2.68	0.47
1:C:441:VAL:O	1:C:445:LEU:HD13	2.14	0.47
1:C:540:PHE:HA	1:C:543:ASN:HB3	1.97	0.47
1:C:600:LEU:CD2	1:C:1666:THR:HA	2.30	0.47
1:C:1762:LEU:HD13	1:C:1763:PRO:N	2.30	0.47
1:C:3705:PHE:CD1	1:C:3722:TYR:HD1	2.32	0.47
1:C:3924:LEU:O	1:C:3927:GLN:HB3	2.15	0.47
1:E:179:TYR:CD2	1:E:195:PHE:O	2.68	0.47
1:E:531:ARG:HG2	1:E:566:CYS:SG	2.54	0.47
1:E:595:ARG:HB3	1:E:1662:PHE:CG	2.43	0.47
1:E:1288:PHE:CE2	1:E:1462:HIS:HA	2.43	0.47
1:E:1937:LEU:HB2	1:E:2116:LEU:HD12	1.95	0.47
1:G:531:ARG:HG2	1:G:566:CYS:SG	2.54	0.47
1:G:3712:GLU:O	1:G:3712:GLU:HG2	2.15	0.47
1:G:3805:LEU:HB2	1:G:3890:LEU:HD23	1.96	0.47
1:G:3842:LEU:HD22	1:G:3930:ILE:HD13	1.97	0.47
1:G:3969:ILE:HG21	1:G:4030:LEU:HA	1.97	0.47
1:G:4187:SER:CB	1:G:4189:ARG:NE	2.77	0.47
1:A:515:TRP:HA	1:A:518:ILE:HD12	1.97	0.47
1:A:520:ASN:CG	1:A:556:ALA:HB1	2.35	0.47
1:A:683:ARG:NH1	1:A:722:TRP:HB3	2.29	0.47
1:A:1116:GLY:HA2	1:A:1121:ALA:HB3	1.97	0.47
1:A:1254:HIS:CD2	1:A:1280:GLN:HB3	2.50	0.47
1:A:1297:PHE:HB2	1:A:1545:ASN:CA	2.38	0.47
1:A:1767:VAL:HG23	1:A:1768:THR:N	2.30	0.47
1:A:3993:LEU:C	1:A:4054:ASN:HD21	2.17	0.47
1:A:4687:TYR:CD1	1:A:4687:TYR:N	2.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:12:GLN:CB	1:C:13:PHE:CD1	2.97	0.47
1:C:404:ILE:HG21	1:C:481:GLU:HG2	1.97	0.47
1:C:520:ASN:CG	1:C:556:ALA:HB1	2.35	0.47
1:C:628:GLY:C	1:C:630:GLU:H	2.15	0.47
1:C:683:ARG:NH1	1:C:722:TRP:HB3	2.29	0.47
1:C:2855:TYR:CD2	1:C:2857:PRO:HD3	2.49	0.47
1:C:3695:PRO:HG2	1:C:3700:GLN:OE1	2.15	0.47
1:C:3780:LEU:HD11	1:C:3820:LEU:HD21	1.97	0.47
1:C:4676:GLU:O	1:C:4680:LYS:HG3	2.15	0.47
1:E:116:MET:HB2	1:E:137:LEU:HD13	1.97	0.47
1:E:265:LEU:HG	1:E:280:LEU:HA	1.96	0.47
1:E:473:ASN:O	1:E:477:LEU:HG	2.15	0.47
1:E:1110:ARG:NH2	1:E:1251:GLU:OE1	2.48	0.47
1:E:1158:ASN:O	1:E:1181:GLU:N	2.48	0.47
1:E:1698:LEU:HG	1:E:1712:TYR:HE1	1.79	0.47
1:E:1762:LEU:HD13	1:E:1763:PRO:N	2.30	0.47
1:E:2259:GLU:HA	1:E:2301:TYR:OH	2.15	0.47
1:E:4179:GLY:O	1:E:4195:PHE:CE2	2.67	0.47
1:E:4692:PRO:CG	1:E:4700:GLN:CD	2.84	0.47
1:G:42:PHE:HD1	1:G:447:ASP:OD2	1.98	0.47
1:G:103:TYR:HB2	1:G:159:GLU:HA	1.96	0.47
1:G:520:ASN:CG	1:G:556:ALA:HB1	2.35	0.47
1:G:748:LEU:HD13	1:G:755:ILE:HG13	1.96	0.47
1:G:1111:PRO:HB3	1:G:1609:PRO:HG3	1.97	0.47
1:G:1116:GLY:HA2	1:G:1121:ALA:HB3	1.97	0.47
1:G:1698:LEU:HG	1:G:1712:TYR:HE1	1.79	0.47
1:G:2377:LEU:HA	1:G:2380:ILE:HD12	1.97	0.47
1:G:4056:GLU:HG3	1:G:4060:LYS:HE3	1.97	0.47
1:G:4895:GLY:HA2	1:G:4921:PHE:CE1	2.50	0.47
1:A:764:VAL:O	1:A:764:VAL:HG12	2.14	0.46
1:A:1158:ASN:O	1:A:1181:GLU:N	2.48	0.46
1:A:3916:ILE:HD13	1:A:3976:ASN:OD1	2.14	0.46
1:A:4031:LEU:HD11	1:A:4044:MET:SD	2.55	0.46
1:A:4691:GLN:HG3	1:A:4692:PRO:N	2.29	0.46
1:C:682:LEU:HD12	1:C:682:LEU:HA	1.80	0.46
1:C:1110:ARG:NH2	1:C:1251:GLU:OE1	2.48	0.46
1:C:1239:SER:HA	1:C:1609:PRO:HA	1.98	0.46
1:C:1294:PRO:HD3	1:C:1549:PHE:CE1	2.50	0.46
1:C:2146:PRO:O	1:C:2149:VAL:HG22	2.15	0.46
1:C:3993:LEU:C	1:C:4054:ASN:HD21	2.17	0.46
1:C:4182:GLU:CD	1:C:4982:GLU:OE1	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:664:PHE:HB2	1:E:793:LEU:HD23	1.96	0.46
1:E:1239:SER:HA	1:E:1609:PRO:HA	1.98	0.46
1:E:2142:TYR:CE2	1:E:2197:LEU:HB2	2.50	0.46
1:E:3712:GLU:O	1:E:3712:GLU:HG2	2.15	0.46
1:E:4179:GLY:C	1:E:4195:PHE:CE2	2.89	0.46
1:G:1715:LEU:HD22	1:G:1844:LEU:HD11	1.96	0.46
1:G:1743:ARG:CB	1:G:1963:GLU:CG	2.92	0.46
1:G:1937:LEU:HB2	1:G:2116:LEU:HD12	1.95	0.46
1:G:2144:ILE:HD13	1:G:2152:THR:HG21	1.96	0.46
1:G:4778:TRP:O	1:G:4782:VAL:HG23	2.14	0.46
1:A:12:GLN:CB	1:A:13:PHE:CD1	2.97	0.46
1:A:42:PHE:HD1	1:A:447:ASP:OD2	1.98	0.46
1:A:52:THR:HG22	1:A:60:PRO:HB3	1.97	0.46
1:A:384:MET:HE1	1:G:167:ASP:CG	2.35	0.46
1:C:284:HIS:HD2	1:C:287:THR:OG1	1.99	0.46
1:C:1257:VAL:HA	1:C:1277:TRP:CE2	2.50	0.46
1:C:1698:LEU:HG	1:C:1712:TYR:HE1	1.79	0.46
1:C:3951:PHE:HD2	1:C:4012:LEU:HD21	1.79	0.46
1:C:4794:TRP:HA	1:C:4797:VAL:HG12	1.97	0.46
1:E:299:LEU:HB2	1:E:378:LEU:HG	1.97	0.46
1:E:1132:TRP:NE1	1:E:1136:SER:HB3	2.31	0.46
1:E:1815:LEU:HB3	1:E:1865:MET:SD	2.55	0.46
1:E:2166:LEU:HG	1:E:2209:GLU:OE1	2.14	0.46
1:E:3842:LEU:HD22	1:E:3930:ILE:HD13	1.97	0.46
1:E:4895:GLY:HA2	1:E:4921:PHE:CE1	2.50	0.46
1:E:4931:ILE:O	1:E:4935:LEU:HB2	2.16	0.46
1:G:52:THR:HG22	1:G:60:PRO:HB3	1.97	0.46
1:G:595:ARG:CB	1:G:1662:PHE:CD1	2.72	0.46
1:G:1286:MET:N	1:G:1555:LEU:HD12	2.21	0.46
1:G:2340:PHE:HB2	1:G:2435:ARG:CG	2.46	0.46
1:G:3924:LEU:O	1:G:3927:GLN:HB3	2.15	0.46
1:G:4005:GLN:OE1	1:G:4005:GLN:HA	2.15	0.46
1:A:125:ARG:HB3	1:A:134:ASP:OD1	2.09	0.46
1:A:1205:GLY:HA2	1:A:1225:PRO:HB2	1.97	0.46
1:A:1286:MET:N	1:A:1555:LEU:HD12	2.21	0.46
1:A:1622:GLU:O	1:A:1626:TRP:HA	2.16	0.46
1:A:2146:PRO:O	1:A:2149:VAL:HG22	2.15	0.46
1:A:3878:ASP:O	1:A:3881:THR:OG1	2.18	0.46
1:A:4005:GLN:HA	1:A:4005:GLN:OE1	2.15	0.46
1:C:107:ILE:HG12	1:C:148:TRP:O	2.16	0.46
1:C:472:ARG:NH1	1:C:532:GLY:HA2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:626:LEU:HB3	1:C:1688:HIS:NE2	2.30	0.46
1:C:764:VAL:O	1:C:764:VAL:HG12	2.14	0.46
1:C:2259:GLU:HA	1:C:2301:TYR:OH	2.15	0.46
1:C:3835:LEU:HD11	1:C:3880:PHE:HZ	1.80	0.46
1:C:3878:ASP:O	1:C:3881:THR:OG1	2.18	0.46
1:C:4179:GLY:O	1:C:4195:PHE:CE2	2.67	0.46
1:E:284:HIS:HD2	1:E:287:THR:H	1.63	0.46
1:E:743:VAL:N	1:E:760:ASN:OD1	2.45	0.46
1:E:1294:PRO:HD3	1:E:1549:PHE:CE1	2.50	0.46
1:E:2257:LEU:HD21	1:E:2275:VAL:HB	1.96	0.46
1:E:2377:LEU:HA	1:E:2380:ILE:HD12	1.97	0.46
1:E:3723:MET:SD	1:E:3793:MET:HA	2.56	0.46
1:E:4005:GLN:OE1	1:E:4005:GLN:HA	2.15	0.46
1:G:234:SER:OG	1:G:242:ARG:HA	2.16	0.46
1:G:2498:HIS:O	1:G:2502:MET:HG2	2.15	0.46
1:G:4051:SER:HG	1:G:4054:ASN:HB3	1.81	0.46
1:A:103:TYR:CD2	1:A:161:GLU:O	2.68	0.46
1:A:284:HIS:HD2	1:A:287:THR:H	1.63	0.46
1:A:630:GLU:O	1:A:1642:PRO:HG2	2.15	0.46
1:A:3647:HIS:CE1	1:A:3648:ARG:HG2	2.49	0.46
1:A:3695:PRO:HG2	1:A:3700:GLN:OE1	2.15	0.46
1:A:3712:GLU:HG2	1:A:3712:GLU:O	2.15	0.46
1:A:3841:VAL:CG2	1:A:3925:ARG:HD3	2.45	0.46
1:A:4688:ILE:HG21	1:A:4728:HIS:HB3	1.97	0.46
1:A:4794:TRP:HA	1:A:4797:VAL:HG12	1.97	0.46
1:A:4931:ILE:O	1:A:4935:LEU:HB2	2.16	0.46
1:A:4991:PHE:CE2	1:A:5010:VAL:HG11	2.48	0.46
1:C:103:TYR:CD2	1:C:161:GLU:O	2.68	0.46
1:C:1132:TRP:NE1	1:C:1136:SER:HB3	2.31	0.46
1:C:1958:LEU:HD11	1:C:3657:TYR:HE2	1.81	0.46
1:C:3712:GLU:O	1:C:3712:GLU:HG2	2.15	0.46
1:C:3723:MET:SD	1:C:3793:MET:HA	2.56	0.46
1:C:3958:ALA:O	1:C:3962:PHE:HD2	1.99	0.46
1:C:4217:PHE:CZ	1:C:4234:PHE:HA	2.50	0.46
1:E:103:TYR:HB2	1:E:159:GLU:HA	1.96	0.46
1:E:472:ARG:NH1	1:E:532:GLY:HA2	2.31	0.46
1:E:592:LYS:HE3	1:E:1596:GLU:OE1	2.13	0.46
1:E:630:GLU:O	1:E:1642:PRO:HG2	2.15	0.46
1:E:1205:GLY:O	1:E:1209:SER:OG	2.34	0.46
1:E:1257:VAL:HA	1:E:1277:TRP:CE2	2.50	0.46
1:E:1733:GLU:CD	1:E:2163:ARG:HH22	2.17	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2277:ALA:O	1:E:2281:ILE:HG13	2.15	0.46
1:E:3775:ALA:O	1:E:3779:VAL:HG23	2.16	0.46
1:G:12:GLN:CB	1:G:13:PHE:CD1	2.97	0.46
1:G:224:HIS:HA	1:G:388:LEU:HD23	1.97	0.46
1:G:764:VAL:O	1:G:764:VAL:HG12	2.14	0.46
1:G:3974:THR:HG23	1:G:3975:GLY:N	2.29	0.46
1:G:4181:ILE:CG2	1:G:4195:PHE:CE2	2.98	0.46
1:A:769:GLU:HB2	1:A:1473:THR:OG1	2.16	0.46
1:A:2133:GLU:HG3	1:A:2136:ARG:NE	2.27	0.46
1:A:2760:GLU:O	1:A:2764:GLU:HG3	2.16	0.46
1:A:3924:LEU:O	1:A:3927:GLN:HB3	2.15	0.46
1:A:4217:PHE:CZ	1:A:4234:PHE:HA	2.50	0.46
1:C:598:LYS:O	1:C:602:VAL:HG23	2.16	0.46
1:C:1254:HIS:CD2	1:C:1280:GLN:HB3	2.50	0.46
1:C:2760:GLU:O	1:C:2764:GLU:HG3	2.16	0.46
1:E:1254:HIS:CD2	1:E:1280:GLN:HB3	2.50	0.46
1:E:2133:GLU:HG3	1:E:2136:ARG:NE	2.27	0.46
1:E:3669:PHE:O	1:E:3670:GLU:C	2.54	0.46
1:E:4655:PHE:O	1:E:4658:ILE:HG13	2.15	0.46
1:G:179:TYR:CD2	1:G:195:PHE:O	2.68	0.46
1:G:664:PHE:HB2	1:G:793:LEU:HD23	1.96	0.46
1:G:1706:PRO:CA	1:G:1836:PHE:HE2	2.29	0.46
1:G:3723:MET:SD	1:G:3793:MET:HA	2.56	0.46
1:G:4031:LEU:HD11	1:G:4044:MET:SD	2.55	0.46
1:G:4692:PRO:CG	1:G:4700:GLN:CD	2.84	0.46
1:G:4931:ILE:O	1:G:4935:LEU:HB2	2.16	0.46
1:A:284:HIS:HD2	1:A:287:THR:OG1	1.99	0.46
1:A:441:VAL:O	1:A:445:LEU:HD13	2.14	0.46
1:A:1835:GLU:CG	1:A:1932:PRO:HB2	2.45	0.46
1:A:4049:VAL:CG2	1:A:4159:ARG:HD3	2.42	0.46
1:C:630:GLU:O	1:C:1642:PRO:HG2	2.15	0.46
1:C:1853:ILE:CG2	1:C:1854:PHE:CE1	2.97	0.46
1:C:4150:LEU:O	1:C:4154:VAL:N	2.36	0.46
1:E:284:HIS:HD2	1:E:287:THR:OG1	1.99	0.46
1:E:1639:LEU:HG	1:E:1648:MET:O	2.14	0.46
1:E:3951:PHE:HD2	1:E:4012:LEU:HD21	1.79	0.46
1:E:3974:THR:HG23	1:E:3975:GLY:N	2.29	0.46
1:G:265:LEU:HG	1:G:280:LEU:HA	1.96	0.46
1:G:984:LEU:O	1:G:988:LEU:HG	2.16	0.46
1:G:1239:SER:HA	1:G:1609:PRO:HA	1.98	0.46
1:G:1763:PRO:CG	1:G:1863:LEU:HD11	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2434:GLY:HA3	1:G:2505:PHE:HA	1.98	0.46
1:G:4655:PHE:O	1:G:4658:ILE:HG13	2.15	0.46
1:A:16:THR:O	1:A:98:HIS:ND1	2.48	0.46
1:A:116:MET:HB2	1:A:137:LEU:HD13	1.97	0.46
1:A:179:TYR:CD2	1:A:195:PHE:O	2.68	0.46
1:A:223:PHE:HA	1:A:230:CYS:HA	1.97	0.46
1:A:664:PHE:HB2	1:A:793:LEU:HD23	1.96	0.46
1:A:1239:SER:HA	1:A:1609:PRO:HA	1.98	0.46
1:A:1743:ARG:CB	1:A:1963:GLU:CG	2.92	0.46
1:A:1815:LEU:HB3	1:A:1865:MET:SD	2.55	0.46
1:A:3696:ASP:O	1:A:3700:GLN:HG2	2.16	0.46
1:A:4913:ARG:NH1	1:C:4888:TYR:OH	2.48	0.46
1:C:234:SER:OG	1:C:242:ARG:HA	2.16	0.46
1:C:299:LEU:HB2	1:C:378:LEU:HG	1.97	0.46
1:C:937:CYS:HA	1:C:1055:PRO:HA	1.98	0.46
1:C:1205:GLY:HA2	1:C:1225:PRO:HB2	1.97	0.46
1:C:1286:MET:N	1:C:1555:LEU:HD12	2.21	0.46
1:C:1835:GLU:HG3	1:C:1932:PRO:HB2	1.97	0.46
1:C:3969:ILE:HG21	1:C:4030:LEU:HA	1.97	0.46
1:C:4049:VAL:CG2	1:C:4159:ARG:HD3	2.42	0.46
1:C:4056:GLU:HG3	1:C:4060:LYS:HE3	1.97	0.46
1:C:4692:PRO:CG	1:C:4700:GLN:CD	2.84	0.46
1:E:276:TRP:CD1	1:E:338:GLU:CD	2.89	0.46
1:E:665:GLU:OE2	1:E:802:PHE:N	2.46	0.46
1:E:1706:PRO:CA	1:E:1836:PHE:HE2	2.29	0.46
1:E:2498:HIS:O	1:E:2501:SER:OG	2.22	0.46
1:E:3990:VAL:HG22	1:E:4047:MET:HB2	1.97	0.46
1:E:4181:ILE:CG2	1:E:4195:PHE:CD2	2.96	0.46
1:G:540:PHE:HA	1:G:543:ASN:HB3	1.97	0.46
1:G:630:GLU:O	1:G:1642:PRO:HG2	2.15	0.46
1:G:664:PHE:HB3	1:G:811:CYS:SG	2.56	0.46
1:G:679:ALA:C	1:G:680:THR:O	2.47	0.46
1:G:1815:LEU:HB3	1:G:1865:MET:SD	2.55	0.46
1:G:3775:ALA:O	1:G:3779:VAL:HG23	2.16	0.46
1:G:3898:ASP:OD1	1:G:3899:PHE:N	2.49	0.46
1:G:4217:PHE:CZ	1:G:4234:PHE:HA	2.50	0.46
1:G:4693:GLY:O	1:G:4695:ASP:CA	2.58	0.46
1:A:103:TYR:HB2	1:A:159:GLU:HA	1.96	0.46
1:A:904:HIS:H	1:A:907:LEU:HD12	1.81	0.46
1:A:984:LEU:O	1:A:988:LEU:HG	2.16	0.46
1:A:1958:LEU:HD11	1:A:3657:TYR:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2133:GLU:HA	1:A:2136:ARG:HG2	1.98	0.46
1:A:2340:PHE:HB2	1:A:2435:ARG:CG	2.46	0.46
1:A:2434:GLY:HA3	1:A:2505:PHE:HA	1.98	0.46
1:A:3990:VAL:HG22	1:A:4047:MET:HB2	1.97	0.46
1:A:4179:GLY:C	1:A:4195:PHE:CE2	2.89	0.46
1:A:4655:PHE:O	1:A:4658:ILE:HG13	2.15	0.46
1:A:4705:VAL:HB	1:A:4778:TRP:CD2	2.51	0.46
1:A:4920:PHE:CE1	1:A:4924:VAL:HG21	2.51	0.46
1:C:223:PHE:HA	1:C:230:CYS:HA	1.97	0.46
1:C:664:PHE:HB3	1:C:811:CYS:SG	2.56	0.46
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.16	0.46
1:C:4922:PHE:O	1:C:4927:ILE:N	2.49	0.46
1:C:4931:ILE:O	1:C:4935:LEU:HB2	2.16	0.46
1:E:224:HIS:HA	1:E:388:LEU:HD23	1.97	0.46
1:E:598:LYS:O	1:E:602:VAL:HG23	2.16	0.46
1:E:665:GLU:HG3	1:E:800:PHE:HD1	1.81	0.46
1:E:689:THR:HG23	1:E:776:LEU:O	2.16	0.46
1:E:721:LEU:HD21	1:E:1474:VAL:HG13	1.98	0.46
1:E:937:CYS:HA	1:E:1055:PRO:HA	1.98	0.46
1:E:1116:GLY:HA2	1:E:1121:ALA:HB3	1.97	0.46
1:E:2133:GLU:HA	1:E:2136:ARG:HG2	1.98	0.46
1:E:2162:ILE:HD13	1:E:2178:MET:HG3	1.98	0.46
1:E:2340:PHE:HB2	1:E:2435:ARG:CG	2.46	0.46
1:E:2773:ASN:HB3	1:E:2775:TRP:CD1	2.51	0.46
1:E:3898:ASP:OD1	1:E:3899:PHE:N	2.49	0.46
1:E:3924:LEU:O	1:E:3927:GLN:HB3	2.15	0.46
1:G:358:THR:OG1	1:G:359:TYR:N	2.46	0.46
1:G:665:GLU:HG3	1:G:800:PHE:HD1	1.81	0.46
1:G:689:THR:HG23	1:G:776:LEU:O	2.16	0.46
1:G:1205:GLY:HA2	1:G:1225:PRO:HB2	1.97	0.46
1:G:1761:GLY:O	1:G:1762:LEU:HB3	2.16	0.46
1:G:3990:VAL:HG22	1:G:4047:MET:HB2	1.97	0.46
1:G:4157:ASP:O	1:G:4161:ARG:N	2.41	0.46
1:G:4680:LYS:O	1:G:4684:ASP:CB	2.59	0.46
1:G:4922:PHE:O	1:G:4927:ILE:N	2.49	0.46
1:A:73:LEU:HD23	1:A:99:ARG:NH1	2.31	0.46
1:A:276:TRP:CD1	1:A:338:GLU:CD	2.89	0.46
1:A:472:ARG:NH1	1:A:532:GLY:HA2	2.31	0.46
1:A:904:HIS:HB3	1:A:907:LEU:HG	1.98	0.46
1:A:1077:ALA:O	1:A:1189:LEU:HD13	2.16	0.46
1:A:1761:GLY:O	1:A:1762:LEU:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4692:PRO:CG	1:A:4700:GLN:CD	2.84	0.46
1:C:1761:GLY:O	1:C:1762:LEU:HB3	2.16	0.46
1:C:2123:LEU:HD23	1:C:2126:ARG:HD2	1.98	0.46
1:C:2198:MET:CE	1:C:2203:MET:HE3	2.21	0.46
1:C:2277:ALA:O	1:C:2281:ILE:HG13	2.15	0.46
1:C:2377:LEU:HA	1:C:2380:ILE:HD12	1.97	0.46
1:C:3841:VAL:CG2	1:C:3925:ARG:HD3	2.45	0.46
1:C:3898:ASP:OD1	1:C:3899:PHE:N	2.49	0.46
1:C:4655:PHE:O	1:C:4658:ILE:HG13	2.15	0.46
1:C:4693:GLY:O	1:C:4695:ASP:CA	2.58	0.46
1:E:42:PHE:HD1	1:E:447:ASP:OD2	1.98	0.46
1:E:404:ILE:HG21	1:E:481:GLU:HG2	1.97	0.46
1:E:743:VAL:O	1:E:760:ASN:N	2.39	0.46
1:E:2380:ILE:HG23	1:E:2423:MET:HE1	1.98	0.46
1:E:3958:ALA:O	1:E:3962:PHE:HD2	1.99	0.46
1:G:116:MET:HB2	1:G:137:LEU:HD13	1.97	0.46
1:G:1122:TYR:CZ	1:G:1133:HIS:CE1	2.88	0.46
1:G:1158:ASN:O	1:G:1181:GLU:N	2.48	0.46
1:G:2256:TYR:O	1:G:2260:ASN:CG	2.55	0.46
1:G:3696:ASP:O	1:G:3700:GLN:HG2	2.16	0.46
1:G:4179:GLY:C	1:G:4195:PHE:CE2	2.89	0.46
1:G:4705:VAL:HB	1:G:4778:TRP:CD2	2.51	0.46
1:A:595:ARG:HB3	1:A:1662:PHE:CG	2.43	0.46
1:A:3723:MET:SD	1:A:3793:MET:HA	2.56	0.46
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.16	0.46
1:A:3835:LEU:HD11	1:A:3880:PHE:HZ	1.80	0.46
1:A:3842:LEU:HD22	1:A:3930:ILE:HD13	1.97	0.46
1:A:3958:ALA:O	1:A:3962:PHE:HD2	1.99	0.46
1:C:73:LEU:HD23	1:C:99:ARG:NH1	2.31	0.46
1:C:276:TRP:CD1	1:C:338:GLU:CD	2.89	0.46
1:C:527:ALA:HB2	1:C:563:VAL:HG22	1.98	0.46
1:C:689:THR:HG23	1:C:776:LEU:O	2.16	0.46
1:C:769:GLU:HB2	1:C:1473:THR:OG1	2.16	0.46
1:C:984:LEU:O	1:C:988:LEU:HG	2.16	0.46
1:C:1116:GLY:HA2	1:C:1121:ALA:HB3	1.97	0.46
1:C:1582:SER:HB2	1:C:1589:PRO:O	2.16	0.46
1:C:1641:ILE:HD12	1:C:1642:PRO:HD2	1.98	0.46
1:C:2326:CYS:O	1:C:2330:ARG:HG2	2.16	0.46
1:C:4920:PHE:CE1	1:C:4924:VAL:HG21	2.51	0.46
1:E:614:VAL:HG13	1:E:617:ASN:HB3	1.96	0.46
1:E:904:HIS:HB3	1:E:907:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1622:GLU:O	1:E:1626:TRP:HA	2.16	0.46
1:E:2434:GLY:HA3	1:E:2505:PHE:HA	1.98	0.46
1:E:3958:ALA:HB3	1:E:4019:LEU:HD11	1.96	0.46
1:E:4691:GLN:HG3	1:E:4692:PRO:N	2.29	0.46
1:G:107:ILE:HG12	1:G:148:TRP:O	2.16	0.46
1:G:284:HIS:HD2	1:G:287:THR:OG1	1.99	0.46
1:G:472:ARG:NH1	1:G:532:GLY:HA2	2.31	0.46
1:G:1288:PHE:CE2	1:G:1462:HIS:HA	2.43	0.46
1:G:1641:ILE:HD12	1:G:1642:PRO:HD2	1.98	0.46
1:G:2133:GLU:HA	1:G:2136:ARG:HG2	1.98	0.46
1:G:2162:ILE:HD13	1:G:2178:MET:HG3	1.98	0.46
1:G:3835:LEU:HD11	1:G:3880:PHE:HZ	1.80	0.46
1:G:3958:ALA:O	1:G:3962:PHE:HD2	1.99	0.46
1:G:3993:LEU:C	1:G:4054:ASN:HD21	2.17	0.46
1:A:224:HIS:HA	1:A:388:LEU:HD23	1.97	0.45
1:A:234:SER:OG	1:A:242:ARG:HA	2.16	0.45
1:A:540:PHE:HA	1:A:543:ASN:HB3	1.97	0.45
1:A:665:GLU:OE2	1:A:802:PHE:N	2.46	0.45
1:A:1133:HIS:HB2	1:A:1179:PHE:CE1	2.52	0.45
1:A:1835:GLU:HG3	1:A:1932:PRO:HB2	1.97	0.45
1:A:1965:TYR:CD1	1:A:1965:TYR:C	2.90	0.45
1:A:2377:LEU:HA	1:A:2380:ILE:HD12	1.97	0.45
1:A:4991:PHE:CE2	1:A:4995:LEU:HD11	2.51	0.45
1:C:17:ASP:HB2	1:C:98:HIS:CE1	2.51	0.45
1:C:116:MET:HB2	1:C:137:LEU:HD13	1.97	0.45
1:C:665:GLU:HG3	1:C:800:PHE:HD1	1.81	0.45
1:C:2133:GLU:HA	1:C:2136:ARG:HG2	1.98	0.45
1:C:3842:LEU:HD22	1:C:3930:ILE:HD13	1.97	0.45
1:C:4005:GLN:OE1	1:C:4005:GLN:HA	2.15	0.45
1:C:4179:GLY:C	1:C:4195:PHE:CE2	2.89	0.45
1:E:17:ASP:HB2	1:E:98:HIS:CE1	2.51	0.45
1:E:107:ILE:HG12	1:E:148:TRP:O	2.16	0.45
1:E:234:SER:OG	1:E:242:ARG:HA	2.16	0.45
1:E:457:GLU:HG3	1:E:464:LYS:HZ1	1.81	0.45
1:E:682:LEU:O	1:E:716:PHE:N	2.49	0.45
1:E:904:HIS:H	1:E:907:LEU:HD12	1.81	0.45
1:E:1743:ARG:HD2	1:E:1963:GLU:CG	2.47	0.45
1:E:2112:GLN:O	1:E:2113:SER:OG	2.21	0.45
1:E:3695:PRO:HG2	1:E:3700:GLN:OE1	2.15	0.45
1:E:3696:ASP:O	1:E:3700:GLN:HG2	2.16	0.45
1:E:3780:LEU:HD11	1:E:3820:LEU:HD21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4005:GLN:O	1:E:4113:SER:O	2.35	0.45
1:E:4217:PHE:CZ	1:E:4234:PHE:HA	2.50	0.45
1:E:4687:TYR:CE2	1:E:4703:ARG:HA	2.49	0.45
2:F:26:TYR:N	2:F:39:SER:CB	2.63	0.45
1:G:457:GLU:HG3	1:G:464:LYS:HZ1	1.79	0.45
1:G:1077:ALA:O	1:G:1189:LEU:HD13	2.16	0.45
1:G:1835:GLU:HG3	1:G:1932:PRO:HB2	1.97	0.45
1:G:2773:ASN:HB3	1:G:2775:TRP:CD1	2.51	0.45
1:G:4687:TYR:CE2	1:G:4703:ARG:HA	2.49	0.45
1:G:4920:PHE:CE1	1:G:4924:VAL:HG21	2.51	0.45
1:A:280:LEU:N	1:A:314:PHE:O	2.42	0.45
1:A:1641:ILE:HD12	1:A:1642:PRO:HD2	1.98	0.45
1:A:1706:PRO:CA	1:A:1836:PHE:HE2	2.29	0.45
1:A:2256:TYR:O	1:A:2260:ASN:CG	2.55	0.45
1:A:2431:ASP:HB2	1:A:2501:SER:HB2	1.97	0.45
1:A:2773:ASN:HB3	1:A:2775:TRP:CD1	2.51	0.45
1:A:2927:LEU:O	1:A:2930:LEU:HB2	2.16	0.45
1:A:5028:PHE:CE1	1:A:5032:TYR:HE2	2.35	0.45
1:C:224:HIS:HA	1:C:388:LEU:HD23	1.97	0.45
1:C:904:HIS:HB3	1:C:907:LEU:HG	1.98	0.45
1:C:1297:PHE:CB	1:C:1545:ASN:HA	2.42	0.45
1:C:1622:GLU:O	1:C:1626:TRP:HA	2.16	0.45
1:C:2793:PRO:O	1:C:2796:THR:OG1	2.23	0.45
1:C:3670:GLU:OE2	1:C:3731:LYS:HB2	2.17	0.45
1:C:4688:ILE:HG21	1:C:4728:HIS:HB3	1.97	0.45
1:C:4863:TYR:OH	1:C:4886:HIS:HE1	1.99	0.45
1:E:73:LEU:HD23	1:E:99:ARG:NH1	2.31	0.45
1:E:1275:ARG:NH1	1:E:1601:MET:HG2	2.31	0.45
1:E:1641:ILE:HD12	1:E:1642:PRO:HD2	1.98	0.45
1:E:1958:LEU:HD11	1:E:3657:TYR:HE2	1.81	0.45
1:E:3713:LYS:O	1:E:3714:SER:OG	2.29	0.45
1:E:4056:GLU:HG3	1:E:4060:LYS:HE3	1.97	0.45
1:E:4705:VAL:HB	1:E:4778:TRP:CD2	2.51	0.45
1:G:17:ASP:HB2	1:G:98:HIS:CE1	2.51	0.45
1:G:1582:SER:HB2	1:G:1589:PRO:O	2.16	0.45
1:G:1622:GLU:O	1:G:1626:TRP:HA	2.16	0.45
1:G:2326:CYS:O	1:G:2330:ARG:HG2	2.16	0.45
1:G:2760:GLU:O	1:G:2764:GLU:HG3	2.16	0.45
1:G:3670:GLU:OE2	1:G:3731:LYS:HB2	2.17	0.45
1:G:3696:ASP:O	1:G:3700:GLN:N	2.49	0.45
1:G:4991:PHE:CE2	1:G:4995:LEU:HD11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ARG:O	1:A:284:HIS:HE1	1.99	0.45
1:A:682:LEU:HD22	1:A:787:VAL:HG11	1.86	0.45
1:A:1205:GLY:O	1:A:1209:SER:OG	2.34	0.45
1:A:2123:LEU:HD23	1:A:2126:ARG:HD2	1.98	0.45
1:A:2142:TYR:CE2	1:A:2197:LEU:HB2	2.50	0.45
1:C:640:TYR:CD1	1:C:1636:MET:HE2	2.51	0.45
1:C:904:HIS:H	1:C:907:LEU:HD12	1.81	0.45
1:C:1077:ALA:O	1:C:1189:LEU:HD13	2.16	0.45
1:C:1205:GLY:O	1:C:1209:SER:OG	2.34	0.45
1:C:1733:GLU:CD	1:C:2163:ARG:HH22	2.17	0.45
1:C:1808:ARG:HA	1:C:1848:LEU:HD21	1.99	0.45
1:C:1965:TYR:CD1	1:C:1965:TYR:C	2.90	0.45
1:C:2339:VAL:O	1:C:2346:VAL:HG22	2.17	0.45
1:C:2357:LEU:O	1:C:2361:PRO:HD3	2.16	0.45
1:C:3829:PHE:CD1	1:C:3915:ILE:HD11	2.51	0.45
1:C:4725:LEU:HD13	1:C:4734:ARG:HD2	1.99	0.45
1:C:4908:GLU:HG2	1:C:4912:TYR:HE2	1.82	0.45
1:E:664:PHE:HB3	1:E:811:CYS:SG	2.56	0.45
1:E:1077:ALA:O	1:E:1189:LEU:HD13	2.16	0.45
1:E:1131:ARG:HD3	1:E:1139:PHE:CD1	2.51	0.45
1:E:1663:HIS:O	1:E:1666:THR:OG1	2.23	0.45
1:E:2151:ASP:OD1	1:E:2188:ASN:ND2	2.50	0.45
1:E:2256:TYR:O	1:E:2260:ASN:CG	2.55	0.45
1:E:3970:GLN:HE22	1:E:4029:SER:HB2	1.71	0.45
1:E:4863:TYR:OH	1:E:4886:HIS:HE1	1.99	0.45
1:E:5028:PHE:CE1	1:E:5032:TYR:HE2	2.35	0.45
1:G:223:PHE:CD1	1:G:230:CYS:HB3	2.52	0.45
1:G:299:LEU:HB2	1:G:378:LEU:HG	1.97	0.45
1:G:1297:PHE:CB	1:G:1545:ASN:HA	2.42	0.45
1:G:1708:ARG:CZ	1:G:1712:TYR:CE2	2.99	0.45
1:G:1965:TYR:CD1	1:G:1965:TYR:C	2.90	0.45
1:G:2151:ASP:OD1	1:G:2188:ASN:ND2	2.50	0.45
1:G:3780:LEU:HD11	1:G:3820:LEU:HD21	1.97	0.45
1:G:4661:TYR:CE2	1:G:4789:PHE:HB2	2.51	0.45
1:A:107:ILE:HG12	1:A:148:TRP:O	2.16	0.45
1:A:167:ASP:CG	1:C:384:MET:HE1	2.37	0.45
1:A:211:GLU:OE2	1:A:3907:THR:HB	2.17	0.45
1:A:275:ARG:O	1:A:278:GLN:HG2	2.17	0.45
1:A:689:THR:HG23	1:A:776:LEU:O	2.16	0.45
1:A:3829:PHE:CD1	1:A:3915:ILE:HD11	2.51	0.45
1:A:3898:ASP:OD1	1:A:3899:PHE:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4580:TYR:CE1	1:A:4631:PHE:HD1	2.35	0.45
1:C:42:PHE:HD1	1:C:447:ASP:OD2	1.98	0.45
1:C:1133:HIS:HB2	1:C:1179:PHE:CE1	2.52	0.45
1:C:1716:ILE:O	1:C:1721:GLU:N	2.49	0.45
1:C:2142:TYR:CE2	1:C:2197:LEU:HB2	2.50	0.45
1:C:2340:PHE:HB2	1:C:2435:ARG:CG	2.46	0.45
1:C:3696:ASP:O	1:C:3700:GLN:HG2	2.16	0.45
1:C:4580:TYR:CE1	1:C:4631:PHE:HD1	2.35	0.45
1:C:4705:VAL:HB	1:C:4778:TRP:CD2	2.51	0.45
1:E:1091:GLU:HG2	1:E:1213:PHE:CE1	2.51	0.45
1:E:1205:GLY:HA2	1:E:1225:PRO:HB2	1.97	0.45
1:E:1716:ILE:HD12	1:E:1847:THR:OG1	2.17	0.45
1:E:1808:ARG:HA	1:E:1848:LEU:HD21	1.99	0.45
1:E:2256:TYR:O	1:E:2260:ASN:ND2	2.49	0.45
1:E:2339:VAL:O	1:E:2346:VAL:HG22	2.17	0.45
1:E:4661:TYR:CE2	1:E:4789:PHE:HB2	2.51	0.45
1:E:4920:PHE:CE1	1:E:4924:VAL:HG21	2.51	0.45
1:E:4991:PHE:CE2	1:E:4995:LEU:HD11	2.51	0.45
1:E:4991:PHE:CE2	1:E:5010:VAL:HG11	2.48	0.45
1:G:515:TRP:HH2	1:G:555:GLU:HG3	1.65	0.45
1:G:598:LYS:O	1:G:602:VAL:HG23	2.16	0.45
1:G:1133:HIS:HB2	1:G:1179:PHE:CE1	2.52	0.45
1:G:1545:ASN:HD22	1:G:1545:ASN:N	2.14	0.45
1:G:1958:LEU:HD11	1:G:3657:TYR:HE2	1.81	0.45
1:G:2431:ASP:HB2	1:G:2501:SER:HB2	1.97	0.45
1:G:2793:PRO:O	1:G:2796:THR:OG1	2.23	0.45
1:G:3695:PRO:HG2	1:G:3700:GLN:OE1	2.15	0.45
1:A:404:ILE:HG21	1:A:481:GLU:HG2	1.97	0.45
1:A:644:ILE:HD13	1:A:1628:VAL:HG21	1.99	0.45
1:A:664:PHE:HB3	1:A:811:CYS:SG	2.56	0.45
1:A:1582:SER:HB2	1:A:1589:PRO:O	2.16	0.45
1:A:4056:GLU:HG3	1:A:4060:LYS:HE3	1.97	0.45
1:C:223:PHE:CD1	1:C:230:CYS:HB3	2.52	0.45
1:C:595:ARG:HB3	1:C:1662:PHE:CG	2.43	0.45
1:C:602:VAL:O	1:C:605:SER:OG	2.25	0.45
1:C:1131:ARG:CD	1:C:1139:PHE:CB	2.81	0.45
1:C:1706:PRO:CA	1:C:1836:PHE:HE2	2.29	0.45
1:C:2256:TYR:O	1:C:2260:ASN:CG	2.55	0.45
1:C:2927:LEU:O	1:C:2930:LEU:HB2	2.16	0.45
1:C:3817:LEU:HD13	1:C:3899:PHE:CD1	2.52	0.45
1:C:4219:PHE:O	1:C:4223:ASN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:596:ASN:HD22	1:E:596:ASN:HA	1.52	0.45
1:E:1582:SER:HB2	1:E:1589:PRO:O	2.16	0.45
1:E:1727:ARG:CD	1:E:1772:ARG:HD3	2.47	0.45
1:E:2123:LEU:HD23	1:E:2126:ARG:HD2	1.98	0.45
1:E:2280:VAL:HG11	1:E:2338:ALA:HA	1.98	0.45
1:E:2927:LEU:O	1:E:2930:LEU:HB2	2.16	0.45
1:E:3969:ILE:HG21	1:E:4030:LEU:HA	1.97	0.45
1:E:3993:LEU:O	1:E:3997:ALA:N	2.49	0.45
1:E:4688:ILE:HG21	1:E:4728:HIS:HB3	1.97	0.45
1:E:4908:GLU:HG2	1:E:4912:TYR:HE2	1.82	0.45
1:G:257:ARG:O	1:G:284:HIS:HE1	1.99	0.45
1:G:276:TRP:CD1	1:G:338:GLU:CD	2.89	0.45
1:G:937:CYS:HA	1:G:1055:PRO:HA	1.98	0.45
1:G:1091:GLU:HG2	1:G:1213:PHE:CE1	2.51	0.45
1:G:1132:TRP:NE1	1:G:1136:SER:HB3	2.31	0.45
1:G:1205:GLY:O	1:G:1209:SER:OG	2.34	0.45
1:G:2339:VAL:O	1:G:2346:VAL:HG22	2.17	0.45
1:G:4725:LEU:HD13	1:G:4734:ARG:HD2	1.99	0.45
1:A:46:LEU:HD13	1:A:125:ARG:CD	2.47	0.45
1:A:149:THR:HG23	1:A:174:VAL:HG22	1.99	0.45
1:A:223:PHE:CD1	1:A:230:CYS:HB3	2.52	0.45
1:A:598:LYS:O	1:A:602:VAL:HG23	2.16	0.45
1:A:682:LEU:HD12	1:A:682:LEU:HA	1.80	0.45
1:A:1293:LEU:HD22	1:A:1599:MET:SD	2.57	0.45
1:A:1545:ASN:N	1:A:1545:ASN:HD22	2.14	0.45
1:A:1663:HIS:O	1:A:1666:THR:OG1	2.23	0.45
1:A:1716:ILE:HD12	1:A:1847:THR:OG1	2.17	0.45
1:A:2256:TYR:O	1:A:2260:ASN:ND2	2.49	0.45
1:A:2591:UNK:O	1:A:2595:UNK:N	2.50	0.45
1:A:4693:GLY:O	1:A:4695:ASP:CA	2.58	0.45
1:A:4802:GLY:CA	1:A:4809:PHE:HB2	2.47	0.45
1:A:4862:PHE:CE2	1:A:4913:ARG:HD2	2.52	0.45
1:A:4901:ILE:HG12	1:A:4902:GLU:N	2.32	0.45
1:C:644:ILE:HD13	1:C:1628:VAL:HG21	1.99	0.45
1:C:1545:ASN:HD22	1:C:1545:ASN:N	2.14	0.45
1:C:2227:LYS:O	1:C:2230:THR:OG1	2.18	0.45
1:C:2434:GLY:HA3	1:C:2505:PHE:HA	1.98	0.45
1:C:3817:LEU:HB2	1:C:3899:PHE:HD1	1.82	0.45
1:C:3990:VAL:HG22	1:C:4047:MET:HB2	1.97	0.45
1:C:4901:ILE:HD13	1:C:4913:ARG:NH2	2.28	0.45
1:E:183:SER:O	1:E:190:GLN:N	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2357:LEU:O	1:E:2361:PRO:HD3	2.16	0.45
1:E:3670:GLU:OE2	1:E:3731:LYS:HB2	2.17	0.45
1:E:4725:LEU:HD13	1:E:4734:ARG:HD2	1.99	0.45
1:E:4913:ARG:NH1	1:G:4888:TYR:OH	2.48	0.45
1:G:275:ARG:HA	1:G:338:GLU:OE1	2.17	0.45
1:G:404:ILE:HG21	1:G:481:GLU:HG2	1.97	0.45
1:G:682:LEU:O	1:G:716:PHE:N	2.49	0.45
1:G:769:GLU:HB2	1:G:1473:THR:OG1	2.16	0.45
1:G:1777:PHE:HD1	1:G:1799:SER:HB2	1.82	0.45
1:G:1808:ARG:HA	1:G:1848:LEU:HD21	1.99	0.45
1:G:2591:UNK:O	1:G:2595:UNK:N	2.50	0.45
1:G:2927:LEU:O	1:G:2930:LEU:HB2	2.16	0.45
1:G:4580:TYR:CE1	1:G:4631:PHE:HD1	2.35	0.45
1:A:1230:MET:HG2	1:A:1828:ASP:HA	1.99	0.45
1:A:1727:ARG:CD	1:A:1772:ARG:HD3	2.47	0.45
1:A:4922:PHE:O	1:A:4927:ILE:N	2.49	0.45
1:C:46:LEU:HD13	1:C:125:ARG:CD	2.47	0.45
1:C:682:LEU:O	1:C:716:PHE:N	2.49	0.45
1:C:1716:ILE:HD12	1:C:1847:THR:OG1	2.17	0.45
1:C:2591:UNK:O	1:C:2595:UNK:N	2.50	0.45
1:C:2758:PHE:HD2	1:C:2809:ILE:HD13	1.82	0.45
1:C:4005:GLN:O	1:C:4113:SER:O	2.35	0.45
1:C:4978:HIS:O	1:C:4982:GLU:HB2	2.17	0.45
1:E:275:ARG:HA	1:E:338:GLU:OE1	2.17	0.45
1:E:769:GLU:HB2	1:E:1473:THR:OG1	2.16	0.45
1:E:1230:MET:HG2	1:E:1828:ASP:HA	1.99	0.45
1:E:1285:GLU:HG3	1:E:1555:LEU:HD11	1.99	0.45
1:E:1955:VAL:HG22	1:E:2134:LEU:HG	1.99	0.45
1:E:3669:PHE:HD1	1:E:3669:PHE:N	2.15	0.45
1:E:3817:LEU:HB2	1:E:3899:PHE:HD1	1.82	0.45
1:E:4732:PHE:CE1	1:E:4736:ARG:HD2	2.51	0.45
1:E:4862:PHE:CE2	1:E:4913:ARG:HD2	2.52	0.45
1:E:4901:ILE:HG12	1:E:4902:GLU:N	2.32	0.45
1:G:721:LEU:HD21	1:G:1474:VAL:HG13	1.98	0.45
1:G:2280:VAL:HG11	1:G:2338:ALA:HA	1.98	0.45
1:G:4862:PHE:CE2	1:G:4913:ARG:HD2	2.52	0.45
1:A:675:LEU:O	1:A:676:THR:OG1	2.28	0.45
1:A:682:LEU:O	1:A:716:PHE:N	2.49	0.45
1:A:1275:ARG:NH1	1:A:1601:MET:HG2	2.31	0.45
1:A:1777:PHE:HD1	1:A:1799:SER:HB2	1.82	0.45
1:A:2151:ASP:OD1	1:A:2188:ASN:ND2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2339:VAL:O	1:A:2346:VAL:HG22	2.17	0.45
1:A:2357:LEU:O	1:A:2361:PRO:HD3	2.16	0.45
1:A:4661:TYR:CE2	1:A:4789:PHE:HB2	2.51	0.45
1:A:4725:LEU:HD13	1:A:4734:ARG:HD2	1.99	0.45
1:A:4904:PRO:CB	1:A:4910:GLU:HG3	2.35	0.45
1:C:5028:PHE:CE1	1:C:5032:TYR:HE2	2.35	0.45
1:E:217:GLY:O	1:E:261:ARG:NH1	2.50	0.45
1:E:257:ARG:O	1:E:284:HIS:HE1	1.99	0.45
1:E:554:LEU:CD1	1:E:593:HIS:HE2	2.25	0.45
1:E:1022:VAL:HB	1:E:1023:PRO:HD2	1.99	0.45
1:E:1777:PHE:HD1	1:E:1799:SER:HB2	1.82	0.45
1:E:2758:PHE:HD2	1:E:2809:ILE:HD13	1.82	0.45
1:E:2760:GLU:O	1:E:2764:GLU:HG3	2.16	0.45
1:G:210:GLU:H	1:G:273:HIS:CE1	2.35	0.45
1:G:644:ILE:HD13	1:G:1628:VAL:HG21	1.99	0.45
1:G:1131:ARG:HD3	1:G:1139:PHE:CD1	2.51	0.45
1:G:1730:MET:HE1	1:G:2159:LEU:HB2	1.98	0.45
1:G:4191:GLU:OE1	1:G:5006:GLN:NE2	2.40	0.45
1:A:1836:PHE:O	1:A:1840:PRO:HD2	2.17	0.45
1:A:2280:VAL:HG11	1:A:2338:ALA:HA	1.98	0.45
1:A:4908:GLU:HG2	1:A:4912:TYR:HE2	1.82	0.45
1:C:149:THR:HG23	1:C:174:VAL:HG22	1.99	0.45
1:C:210:GLU:H	1:C:273:HIS:CE1	2.35	0.45
1:C:211:GLU:OE2	1:C:3907:THR:HB	2.17	0.45
1:C:1091:GLU:HG2	1:C:1213:PHE:CE1	2.51	0.45
1:C:1293:LEU:HD22	1:C:1599:MET:SD	2.57	0.45
1:C:1727:ARG:CD	1:C:1772:ARG:HD3	2.47	0.45
1:C:2256:TYR:O	1:C:2260:ASN:ND2	2.49	0.45
1:E:275:ARG:O	1:E:278:GLN:HG2	2.17	0.45
1:E:737:LEU:HB3	1:E:738:LEU:H	1.55	0.45
1:E:984:LEU:O	1:E:988:LEU:HG	2.16	0.45
1:E:1252:HIS:CG	1:E:1253:PRO:HD2	2.52	0.45
1:E:1585:LYS:HE2	1:E:1596:GLU:OE1	2.17	0.45
1:E:1716:ILE:O	1:E:1721:GLU:N	2.49	0.45
1:E:1762:LEU:CD1	1:E:1762:LEU:C	2.85	0.45
1:E:3829:PHE:CD1	1:E:3915:ILE:HD11	2.51	0.45
1:E:4219:PHE:O	1:E:4223:ASN:HB3	2.17	0.45
1:E:4580:TYR:HD2	1:E:4807:PHE:CZ	2.35	0.45
2:F:56:ILE:HB	2:F:81:ALA:HA	1.99	0.45
1:G:73:LEU:HD23	1:G:99:ARG:NH1	2.31	0.45
1:G:161:GLU:OE2	1:G:164:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:284:HIS:HD2	1:G:287:THR:H	1.63	0.45
1:G:641:VAL:HG21	1:G:704:GLY:HA2	1.99	0.45
1:G:904:HIS:HB3	1:G:907:LEU:HG	1.98	0.45
1:G:904:HIS:H	1:G:907:LEU:HD12	1.81	0.45
1:G:1291:LEU:HD23	1:G:1293:LEU:N	2.29	0.45
1:G:1743:ARG:HD2	1:G:1963:GLU:CG	2.47	0.45
1:G:2123:LEU:HD23	1:G:2126:ARG:HD2	1.98	0.45
1:G:2247:GLN:HE21	1:G:2279:SER:C	2.20	0.45
1:G:4802:GLY:CA	1:G:4809:PHE:HB2	2.47	0.45
1:G:5028:PHE:CE1	1:G:5032:TYR:HE2	2.35	0.45
1:A:217:GLY:O	1:A:261:ARG:NH1	2.50	0.45
1:A:275:ARG:HA	1:A:338:GLU:OE1	2.17	0.45
1:A:358:THR:OG1	1:A:359:TYR:N	2.46	0.45
1:A:665:GLU:HG3	1:A:800:PHE:HD1	1.81	0.45
1:A:937:CYS:HA	1:A:1055:PRO:HA	1.98	0.45
1:A:1132:TRP:NE1	1:A:1136:SER:HB3	2.31	0.45
1:A:3667:HIS:O	1:A:3669:PHE:CD1	2.70	0.45
1:A:4181:ILE:CD1	1:A:4991:PHE:CD1	2.95	0.45
1:A:4222:VAL:HB	1:A:4950:VAL:HG22	1.99	0.45
1:A:4732:PHE:CE1	1:A:4736:ARG:HD2	2.51	0.45
1:C:275:ARG:O	1:C:278:GLN:HG2	2.17	0.45
1:C:1291:LEU:HD23	1:C:1293:LEU:N	2.29	0.45
1:C:2773:ASN:HB3	1:C:2775:TRP:CD1	2.51	0.45
1:C:3841:VAL:HG12	1:C:3843:ASP:N	2.31	0.45
1:C:4862:PHE:CE2	1:C:4913:ARG:HD2	2.52	0.45
1:C:4904:PRO:CB	1:C:4910:GLU:HG3	2.35	0.45
1:E:118:LEU:HA	1:E:137:LEU:HD23	1.99	0.45
1:E:211:GLU:OE2	1:E:3907:THR:HB	2.17	0.45
1:E:644:ILE:HD13	1:E:1628:VAL:HG21	1.99	0.45
1:E:1133:HIS:HD2	1:E:1134:LEU:HB2	1.82	0.45
1:E:1133:HIS:HB2	1:E:1179:PHE:CE1	2.52	0.45
1:E:1545:ASN:HD22	1:E:1545:ASN:N	2.14	0.45
1:E:1694:LEU:HB3	1:E:1715:LEU:HD12	1.99	0.45
1:E:2066:LEU:O	1:E:2070:VAL:HG23	2.17	0.45
1:E:2326:CYS:O	1:E:2330:ARG:HG2	2.16	0.45
1:E:2591:UNK:O	1:E:2595:UNK:N	2.50	0.45
1:G:527:ALA:HB2	1:G:563:VAL:HG22	1.98	0.45
1:G:1099:GLU:HG2	1:G:1127:HIS:HB3	1.99	0.45
1:G:1762:LEU:CD1	1:G:1762:LEU:C	2.85	0.45
1:G:2745:VAL:HG21	1:G:2818:ALA:HB2	1.99	0.45
1:G:4688:ILE:HG21	1:G:4728:HIS:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4863:TYR:OH	1:G:4886:HIS:HE1	1.99	0.45
1:G:4991:PHE:CE2	1:G:5010:VAL:HG11	2.48	0.45
1:A:210:GLU:H	1:A:273:HIS:CE1	2.35	0.44
1:A:1091:GLU:HG2	1:A:1213:PHE:CE1	2.51	0.44
1:A:1288:PHE:CE2	1:A:1462:HIS:HA	2.43	0.44
1:A:1657:LEU:O	1:A:1660:GLN:HB3	2.17	0.44
1:A:2326:CYS:O	1:A:2330:ARG:HG2	2.16	0.44
1:A:3669:PHE:HD1	1:A:3669:PHE:N	2.15	0.44
1:A:3669:PHE:O	1:A:3670:GLU:C	2.54	0.44
1:A:3924:LEU:HD23	1:A:3988:ALA:HB2	1.99	0.44
1:A:4005:GLN:O	1:A:4113:SER:O	2.35	0.44
1:C:1585:LYS:HE2	1:C:1596:GLU:OE1	2.17	0.44
1:C:1657:LEU:O	1:C:1660:GLN:HB3	2.17	0.44
1:C:1743:ARG:HD2	1:C:1963:GLU:CG	2.47	0.44
1:C:2162:ILE:HD13	1:C:2178:MET:HG3	1.98	0.44
1:C:3889:GLN:O	1:C:3893:GLU:HG3	2.18	0.44
1:C:4661:TYR:CE2	1:C:4789:PHE:HB2	2.51	0.44
1:E:557:SER:HA	1:E:560:ILE:HD13	1.99	0.44
1:E:1293:LEU:HD22	1:E:1599:MET:SD	2.57	0.44
1:E:1579:MET:O	1:E:1582:SER:OG	2.15	0.44
1:E:1761:GLY:O	1:E:1762:LEU:HB3	2.16	0.44
1:G:16:THR:O	1:G:98:HIS:ND1	2.48	0.44
1:G:149:THR:HG23	1:G:174:VAL:HG22	1.99	0.44
1:G:211:GLU:OE2	1:G:3907:THR:HB	2.17	0.44
1:G:217:GLY:O	1:G:261:ARG:NH1	2.50	0.44
1:G:1252:HIS:CG	1:G:1253:PRO:HD2	2.52	0.44
1:G:1275:ARG:NH1	1:G:1601:MET:HG2	2.31	0.44
1:G:1657:LEU:O	1:G:1660:GLN:HB3	2.17	0.44
1:G:1704:PRO:HG2	1:G:1707:LEU:HD12	2.00	0.44
1:G:1716:ILE:HD12	1:G:1847:THR:OG1	2.17	0.44
1:G:1836:PHE:O	1:G:1840:PRO:HD2	2.17	0.44
1:G:2256:TYR:O	1:G:2260:ASN:ND2	2.49	0.44
1:G:3667:HIS:O	1:G:3669:PHE:CD1	2.70	0.44
2:H:56:ILE:HB	2:H:81:ALA:HA	1.99	0.44
1:A:721:LEU:HD21	1:A:1474:VAL:HG13	1.98	0.44
1:A:1127:HIS:O	1:A:1129:GLY:N	2.43	0.44
1:A:1853:ILE:O	1:A:1854:PHE:CG	2.70	0.44
1:A:1955:VAL:HG22	1:A:2134:LEU:HG	1.99	0.44
1:A:2162:ILE:HD13	1:A:2178:MET:HG3	1.98	0.44
1:A:2758:PHE:HD2	1:A:2809:ILE:HD13	1.82	0.44
1:A:3709:ALA:HB2	1:A:3782:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:13:PHE:HE2	1:C:164:ARG:HH12	1.51	0.44
1:C:457:GLU:HG3	1:C:464:LYS:HZ1	1.83	0.44
1:C:1275:ARG:NH1	1:C:1601:MET:HG2	2.31	0.44
1:C:1762:LEU:CD1	1:C:1762:LEU:C	2.85	0.44
1:C:3669:PHE:HD1	1:C:3669:PHE:N	2.15	0.44
1:C:4991:PHE:CE2	1:C:4995:LEU:HD11	2.51	0.44
1:E:161:GLU:CG	1:G:3984:ARG:CD	2.94	0.44
1:E:1132:TRP:CD1	1:E:1135:GLY:C	2.91	0.44
1:E:1452:TRP:CE2	1:E:1519:LEU:HD22	2.53	0.44
1:E:1965:TYR:C	1:E:1965:TYR:CD1	2.90	0.44
1:E:2143:THR:N	1:E:3651:ASN:OD1	2.38	0.44
1:G:46:LEU:HD13	1:G:125:ARG:CD	2.47	0.44
1:G:1022:VAL:HB	1:G:1023:PRO:HD2	1.99	0.44
1:G:1123:VAL:O	1:G:1132:TRP:N	2.30	0.44
1:G:1285:GLU:HG3	1:G:1555:LEU:HD11	1.99	0.44
1:G:1452:TRP:CB	1:G:1527:MET:CE	2.75	0.44
1:G:1466:PHE:HA	1:G:1467:ASP:HA	1.70	0.44
1:G:1698:LEU:HD11	1:G:1715:LEU:HD13	2.00	0.44
1:G:1708:ARG:NH2	1:G:1712:TYR:OH	2.51	0.44
1:G:1770:SER:OG	1:G:1771:LEU:N	2.49	0.44
1:G:2357:LEU:O	1:G:2361:PRO:HD3	2.16	0.44
1:G:3709:ALA:HB2	1:G:3782:MET:SD	2.57	0.44
1:G:4908:GLU:HG2	1:G:4912:TYR:HE2	1.82	0.44
1:A:17:ASP:HB2	1:A:98:HIS:CE1	2.51	0.44
1:A:23:GLN:HE21	1:A:34:LYS:HB3	1.83	0.44
1:A:118:LEU:HA	1:A:137:LEU:HD23	1.99	0.44
1:A:215:THR:O	1:A:218:HIS:HB2	2.17	0.44
1:A:1131:ARG:HD3	1:A:1139:PHE:CD1	2.51	0.44
1:A:1252:HIS:CG	1:A:1253:PRO:HD2	2.52	0.44
1:A:1285:GLU:HG3	1:A:1555:LEU:HD11	1.99	0.44
1:A:1452:TRP:CE2	1:A:1519:LEU:HD22	2.53	0.44
1:A:1708:ARG:CZ	1:A:1712:TYR:CE2	2.99	0.44
1:A:2247:GLN:HE21	1:A:2279:SER:C	2.20	0.44
1:A:4904:PRO:CB	1:A:4910:GLU:HG2	2.24	0.44
2:B:56:ILE:HB	2:B:81:ALA:HA	1.99	0.44
1:C:118:LEU:HA	1:C:137:LEU:HD23	1.99	0.44
1:C:183:SER:O	1:C:190:GLN:N	2.34	0.44
1:C:257:ARG:O	1:C:284:HIS:HE1	1.99	0.44
1:C:1274:HIS:HB2	1:C:1564:PHE:O	2.18	0.44
1:C:1285:GLU:HG3	1:C:1555:LEU:HD11	1.99	0.44
1:C:1944:GLU:HG3	1:C:2123:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:56:ILE:HB	2:D:81:ALA:HA	1.99	0.44
1:E:46:LEU:HD13	1:E:125:ARG:CD	2.47	0.44
1:E:223:PHE:CD1	1:E:230:CYS:HB3	2.52	0.44
1:E:527:ALA:HB2	1:E:563:VAL:HG22	1.98	0.44
1:E:1097:THR:HA	1:E:1143:TRP:CH2	2.53	0.44
1:E:1274:HIS:HB2	1:E:1564:PHE:O	2.18	0.44
1:E:1836:PHE:O	1:E:1840:PRO:HD2	2.17	0.44
1:E:1853:ILE:O	1:E:1854:PHE:CG	2.70	0.44
1:E:4922:PHE:O	1:E:4927:ILE:N	2.49	0.44
1:G:2752:ASP:HA	1:G:2755:ILE:HD12	2.00	0.44
1:G:4005:GLN:O	1:G:4113:SER:O	2.35	0.44
1:G:4732:PHE:CE1	1:G:4736:ARG:HD2	2.51	0.44
1:A:527:ALA:HB2	1:A:563:VAL:HG22	1.98	0.44
1:A:558:SER:O	1:A:561:LEU:N	2.51	0.44
1:A:641:VAL:HG21	1:A:704:GLY:HA2	1.99	0.44
1:A:1132:TRP:CD1	1:A:1135:GLY:C	2.91	0.44
1:A:1704:PRO:HG2	1:A:1707:LEU:HD12	2.00	0.44
1:A:3817:LEU:HD13	1:A:3899:PHE:CD1	2.52	0.44
1:A:4580:TYR:HD2	1:A:4807:PHE:CZ	2.35	0.44
1:A:4863:TYR:OH	1:A:4886:HIS:HE1	1.99	0.44
1:C:23:GLN:HE21	1:C:34:LYS:HB3	1.83	0.44
1:C:161:GLU:HG2	1:E:3984:ARG:HD3	1.99	0.44
1:C:217:GLY:O	1:C:261:ARG:NH1	2.50	0.44
1:C:571:SER:HA	1:C:572:PRO:HD2	1.92	0.44
1:C:1252:HIS:CG	1:C:1253:PRO:HD2	2.52	0.44
1:C:1777:PHE:CD1	1:C:1799:SER:HB2	2.52	0.44
1:C:3667:HIS:O	1:C:3669:PHE:CD1	2.70	0.44
1:C:4039:MET:O	1:C:4043:GLN:HG2	2.18	0.44
1:C:4913:ARG:NH1	1:E:4888:TYR:OH	2.48	0.44
1:E:161:GLU:OE2	1:E:164:ARG:NH2	2.50	0.44
1:E:514:SER:O	1:E:518:ILE:HG13	2.17	0.44
1:E:1704:PRO:HG2	1:E:1707:LEU:HD12	2.00	0.44
1:E:1944:GLU:HG3	1:E:2123:LEU:HD21	1.99	0.44
1:E:2227:LYS:O	1:E:2230:THR:OG1	2.18	0.44
1:E:4978:HIS:O	1:E:4982:GLU:HB2	2.17	0.44
2:F:26:TYR:CE1	2:F:39:SER:HB3	2.53	0.44
1:G:118:LEU:HA	1:G:137:LEU:HD23	1.99	0.44
1:G:275:ARG:O	1:G:278:GLN:HG2	2.17	0.44
1:G:1230:MET:HG2	1:G:1828:ASP:HA	1.99	0.44
1:G:1727:ARG:CD	1:G:1772:ARG:HD3	2.47	0.44
1:G:1955:VAL:HG22	1:G:2134:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2256:TYR:CD1	1:G:2260:ASN:ND2	2.63	0.44
1:G:2380:ILE:HG23	1:G:2423:MET:HE1	1.99	0.44
1:G:4222:VAL:HB	1:G:4950:VAL:HG22	1.99	0.44
1:G:4978:HIS:O	1:G:4982:GLU:HB2	2.17	0.44
1:A:223:PHE:HE1	1:A:253:CYS:HG	1.64	0.44
1:A:640:TYR:CD1	1:A:1636:MET:HE2	2.52	0.44
1:A:1022:VAL:HB	1:A:1023:PRO:HD2	1.99	0.44
1:A:1808:ARG:HA	1:A:1848:LEU:HD21	1.99	0.44
1:A:2143:THR:N	1:A:3651:ASN:OD1	2.38	0.44
1:A:3696:ASP:O	1:A:3700:GLN:N	2.49	0.44
1:A:4802:GLY:HA2	1:A:4805:ASN:O	2.18	0.44
1:C:275:ARG:HA	1:C:338:GLU:OE1	2.17	0.44
1:C:1022:VAL:HB	1:C:1023:PRO:HD2	1.99	0.44
1:C:1131:ARG:HD3	1:C:1139:PHE:CD1	2.51	0.44
1:C:1132:TRP:CD1	1:C:1135:GLY:C	2.91	0.44
1:C:1708:ARG:NH2	1:C:1712:TYR:OH	2.51	0.44
1:C:2095:GLN:HG3	1:C:2127:GLN:HB3	2.00	0.44
1:C:2204:HIS:O	1:C:2208:MET:HE2	2.18	0.44
1:C:2280:VAL:HG11	1:C:2338:ALA:HA	1.98	0.44
1:E:1100:MET:HB3	1:E:1100:MET:HE3	1.88	0.44
1:E:1810:LYS:NZ	1:E:1813:ARG:HH22	2.16	0.44
1:E:3767:GLN:CD	1:E:3809:ASN:HD21	2.21	0.44
1:E:3817:LEU:HD13	1:E:3899:PHE:CD1	2.52	0.44
1:E:4208:PRO:HB2	1:E:4209:GLN:H	1.63	0.44
1:E:4580:TYR:CE1	1:E:4631:PHE:HD1	2.35	0.44
1:G:514:SER:O	1:G:518:ILE:HG13	2.17	0.44
1:G:545:ASP:OD1	1:G:546:TRP:N	2.51	0.44
1:G:1133:HIS:HD2	1:G:1134:LEU:HB2	1.82	0.44
1:G:1293:LEU:HD22	1:G:1599:MET:SD	2.57	0.44
1:G:1552:VAL:HG12	1:G:1554:VAL:HG23	2.00	0.44
1:G:3817:LEU:HB2	1:G:3899:PHE:HD1	1.82	0.44
1:G:3829:PHE:CD1	1:G:3915:ILE:HD11	2.51	0.44
1:G:4221:VAL:O	1:G:4225:GLY:N	2.51	0.44
1:A:516:LYS:NZ	1:A:555:GLU:O	2.50	0.44
1:A:1694:LEU:HB3	1:A:1715:LEU:HD12	1.99	0.44
1:A:1708:ARG:NH2	1:A:1712:TYR:OH	2.51	0.44
1:A:1856:ASP:O	1:A:1859:VAL:HB	2.17	0.44
1:A:2066:LEU:O	1:A:2070:VAL:HG23	2.17	0.44
1:A:3670:GLU:OE2	1:A:3731:LYS:HB2	2.17	0.44
1:A:3817:LEU:HB2	1:A:3899:PHE:HD1	1.82	0.44
1:A:4039:MET:O	1:A:4043:GLN:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:545:ASP:OD1	1:C:546:TRP:N	2.51	0.44
1:C:721:LEU:HD21	1:C:1474:VAL:HG13	1.98	0.44
1:C:1127:HIS:O	1:C:1129:GLY:N	2.43	0.44
1:C:4802:GLY:CA	1:C:4809:PHE:HB2	2.47	0.44
2:D:26:TYR:N	2:D:39:SER:CB	2.63	0.44
1:E:23:GLN:HE21	1:E:34:LYS:HB3	1.83	0.44
1:E:516:LYS:NZ	1:E:555:GLU:O	2.50	0.44
1:E:1829:PRO:O	1:E:1831:GLY:N	2.51	0.44
1:G:737:LEU:HB3	1:G:738:LEU:H	1.55	0.44
1:G:1585:LYS:HE2	1:G:1596:GLU:OE1	2.17	0.44
1:G:3817:LEU:HD13	1:G:3899:PHE:CD1	2.52	0.44
1:G:4181:ILE:CG2	1:G:4195:PHE:CD2	2.96	0.44
1:A:2752:ASP:HA	1:A:2755:ILE:HD12	2.00	0.44
1:A:2907:PRO:O	1:A:2910:THR:OG1	2.14	0.44
1:A:4219:PHE:O	1:A:4223:ASN:HB3	2.17	0.44
1:A:4221:VAL:O	1:A:4225:GLY:N	2.51	0.44
1:C:516:LYS:NZ	1:C:555:GLU:O	2.50	0.44
1:C:557:SER:HA	1:C:560:ILE:HD13	1.99	0.44
1:C:1097:THR:HA	1:C:1143:TRP:CH2	2.53	0.44
1:C:1438:ARG:HG3	1:C:1511:LEU:CD2	2.48	0.44
1:C:1704:PRO:HG2	1:C:1707:LEU:HD12	2.00	0.44
1:C:2123:LEU:HD23	1:C:2123:LEU:HA	1.82	0.44
1:C:2151:ASP:OD1	1:C:2188:ASN:ND2	2.50	0.44
1:C:3669:PHE:O	1:C:3670:GLU:C	2.54	0.44
1:C:3709:ALA:HB2	1:C:3782:MET:SD	2.57	0.44
1:C:3983:SER:C	1:C:3985:LEU:H	2.21	0.44
1:C:3992:PHE:O	1:C:3996:PHE:CD2	2.71	0.44
1:E:210:GLU:H	1:E:273:HIS:CE1	2.35	0.44
1:E:674:PHE:CD2	2:F:40:ARG:NH1	2.86	0.44
1:E:1047:LEU:C	1:E:1050:GLY:H	2.21	0.44
1:E:1868:PRO:HD3	1:E:1925:GLY:HA3	2.00	0.44
1:E:3930:ILE:HG22	1:E:3995:VAL:HG11	2.00	0.44
1:E:4222:VAL:HB	1:E:4950:VAL:HG22	1.99	0.44
1:E:4802:GLY:CA	1:E:4809:PHE:HB2	2.47	0.44
1:G:284:HIS:NE2	1:G:286:THR:OG1	2.29	0.44
1:G:1047:LEU:C	1:G:1050:GLY:H	2.21	0.44
1:G:1639:LEU:HD23	1:G:1650:ILE:HG13	2.00	0.44
1:G:1678:ASN:HD21	1:G:1681:VAL:HG21	1.83	0.44
1:G:2237:CYS:O	1:G:2241:ARG:HG2	2.18	0.44
1:G:3767:GLN:CD	1:G:3809:ASN:HD21	2.21	0.44
1:G:3802:ILE:HD11	1:G:3883:ASP:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4904:PRO:HD3	1:G:4913:ARG:HH11	1.83	0.44
1:A:215:THR:HG22	1:A:273:HIS:HD2	1.83	0.44
1:A:571:SER:HA	1:A:572:PRO:HD2	1.92	0.44
1:A:732:SER:HB3	1:A:764:VAL:HG13	1.99	0.44
1:A:1078:GLU:HA	1:A:1237:TRP:CE2	2.53	0.44
1:A:1133:HIS:HD2	1:A:1134:LEU:HB2	1.82	0.44
1:A:1762:LEU:CD1	1:A:1763:PRO:N	2.81	0.44
1:A:1961:PHE:HZ	1:A:2063:LEU:CD2	2.03	0.44
1:A:2095:GLN:HG3	1:A:2127:GLN:HB3	2.00	0.44
1:A:4682:GLU:O	1:A:4727:LYS:HG2	2.18	0.44
1:A:4904:PRO:HD3	1:A:4913:ARG:HH11	1.83	0.44
1:C:601:ASP:OD1	1:C:1665:HIS:ND1	2.51	0.44
1:C:619:ASP:O	1:C:622:THR:OG1	2.27	0.44
1:C:641:VAL:HG21	1:C:704:GLY:HA2	1.99	0.44
1:C:1452:TRP:CE2	1:C:1519:LEU:HD22	2.53	0.44
1:C:2133:GLU:HG3	1:C:2136:ARG:NE	2.27	0.44
1:C:2380:ILE:HG23	1:C:2423:MET:HE1	1.99	0.44
1:C:2754:PHE:CZ	1:C:2930:LEU:HD23	2.53	0.44
1:C:3993:LEU:O	1:C:3997:ALA:N	2.49	0.44
1:C:3998:HIS:O	1:C:4002:LYS:HG2	2.18	0.44
1:E:558:SER:O	1:E:561:LEU:N	2.51	0.44
1:E:575:LEU:HD22	1:E:606:LEU:HA	2.00	0.44
1:E:681:HIS:HB2	1:E:716:PHE:CE1	2.53	0.44
1:E:1708:ARG:CZ	1:E:1712:TYR:CE2	2.99	0.44
1:E:2763:HIS:CD2	1:E:2794:TYR:HB2	2.53	0.44
1:E:3667:HIS:O	1:E:3669:PHE:CD1	2.70	0.44
1:E:3891:LEU:HB3	1:E:3899:PHE:HE2	1.83	0.44
1:E:3992:PHE:O	1:E:3996:PHE:CD2	2.71	0.44
1:E:4039:MET:O	1:E:4043:GLN:HG2	2.18	0.44
1:G:23:GLN:HE21	1:G:34:LYS:HB3	1.83	0.44
1:G:334:MET:H	1:G:334:MET:HG3	1.60	0.44
1:G:597:HIS:HB3	1:G:1665:HIS:CD2	2.53	0.44
1:G:601:ASP:OD1	1:G:1665:HIS:ND1	2.51	0.44
1:G:1097:THR:HA	1:G:1143:TRP:CH2	2.53	0.44
1:G:1777:PHE:CD1	1:G:1799:SER:HB2	2.52	0.44
1:G:1853:ILE:O	1:G:1854:PHE:CG	2.70	0.44
1:G:1868:PRO:HD3	1:G:1925:GLY:HA3	2.00	0.44
1:A:457:GLU:HG3	1:A:464:LYS:HZ1	1.82	0.44
1:A:674:PHE:CD2	2:B:40:ARG:NH1	2.86	0.44
1:A:886:ARG:HB3	1:A:891:TRP:CG	2.53	0.44
1:A:1639:LEU:HD23	1:A:1650:ILE:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1698:LEU:HD11	1:A:1715:LEU:HD13	2.00	0.44
1:A:1743:ARG:HD2	1:A:1963:GLU:CG	2.47	0.44
1:A:1762:LEU:CD1	1:A:1762:LEU:C	2.85	0.44
1:A:3889:GLN:O	1:A:3893:GLU:HG3	2.18	0.44
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	2.00	0.44
1:A:4580:TYR:CD2	1:A:4807:PHE:HZ	2.35	0.44
1:A:4888:TYR:OH	1:G:4913:ARG:NH1	2.48	0.44
1:A:4978:HIS:O	1:A:4982:GLU:HB2	2.17	0.44
1:C:291:LEU:HG	1:C:314:PHE:CE2	2.53	0.44
1:C:514:SER:O	1:C:518:ILE:HG13	2.17	0.44
1:C:1099:GLU:HG2	1:C:1127:HIS:HB3	1.99	0.44
1:C:1230:MET:HG2	1:C:1828:ASP:HA	1.99	0.44
1:C:1777:PHE:HD1	1:C:1799:SER:HB2	1.82	0.44
1:C:1829:PRO:O	1:C:1831:GLY:N	2.51	0.44
1:C:1853:ILE:O	1:C:1854:PHE:CG	2.70	0.44
1:C:1868:PRO:HD3	1:C:1925:GLY:HA3	2.00	0.44
1:C:1943:LEU:HD21	1:C:2098:VAL:CG2	2.48	0.44
1:C:2066:LEU:O	1:C:2070:VAL:HG23	2.17	0.44
1:C:4563:ARG:NH1	1:C:4791:TYR:HE2	2.16	0.44
1:C:4802:GLY:HA3	1:C:4809:PHE:HD1	1.83	0.44
1:E:35:LEU:HD11	1:E:49:LEU:HD22	2.00	0.44
1:E:1770:SER:OG	1:E:1771:LEU:N	2.49	0.44
1:E:2198:MET:HE1	1:E:2203:MET:HE1	1.94	0.44
1:E:3709:ALA:HB2	1:E:3782:MET:SD	2.57	0.44
1:E:4580:TYR:CD2	1:E:4807:PHE:HZ	2.35	0.44
1:E:4682:GLU:O	1:E:4727:LYS:HG2	2.18	0.44
1:E:4889:VAL:O	1:E:4893:ALA:N	2.51	0.44
1:G:681:HIS:HB2	1:G:716:PHE:CE1	2.53	0.44
1:G:909:ASN:O	1:G:912:SER:OG	2.22	0.44
1:G:1075:PHE:HA	1:G:1237:TRP:O	2.18	0.44
1:G:1132:TRP:CD1	1:G:1135:GLY:C	2.91	0.44
1:G:1452:TRP:CE2	1:G:1519:LEU:HD22	2.53	0.44
1:G:1810:LYS:NZ	1:G:1813:ARG:HH22	2.16	0.44
1:G:1838:PHE:O	1:G:1839:VAL:C	2.57	0.44
1:G:1856:ASP:O	1:G:1859:VAL:HB	2.17	0.44
1:G:2058:SER:O	1:G:2061:SER:OG	2.16	0.44
1:G:2066:LEU:O	1:G:2070:VAL:HG23	2.17	0.44
1:G:2165:LEU:HD12	1:G:2168:VAL:HB	2.00	0.44
1:G:2204:HIS:HB3	1:G:2239:PHE:CE2	2.53	0.44
1:G:2454:ARG:O	1:G:2458:ARG:HG3	2.18	0.44
1:G:3889:GLN:O	1:G:3893:GLU:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3983:SER:C	1:G:3985:LEU:H	2.21	0.44
1:G:4164:LEU:HA	1:G:4167:ALA:HB3	2.00	0.44
1:G:4219:PHE:O	1:G:4223:ASN:HB3	2.17	0.44
1:G:4580:TYR:HD2	1:G:4807:PHE:CZ	2.35	0.44
1:G:4901:ILE:HG12	1:G:4902:GLU:N	2.32	0.44
1:A:59:PRO:HG2	1:A:290:TYR:HE2	1.83	0.43
1:A:291:LEU:HG	1:A:314:PHE:CE2	2.53	0.43
1:A:514:SER:O	1:A:518:ILE:HG13	2.17	0.43
1:A:1274:HIS:HB2	1:A:1564:PHE:O	2.18	0.43
1:A:1868:PRO:HD3	1:A:1925:GLY:HA3	2.00	0.43
1:A:2204:HIS:O	1:A:2208:MET:HE2	2.18	0.43
1:A:2745:VAL:HG21	1:A:2818:ALA:HB2	1.99	0.43
1:A:2754:PHE:CZ	1:A:2930:LEU:HD23	2.53	0.43
1:A:3998:HIS:O	1:A:4002:LYS:HG2	2.18	0.43
1:A:4563:ARG:NH1	1:A:4791:TYR:HE2	2.16	0.43
1:A:4889:VAL:O	1:A:4893:ALA:N	2.51	0.43
1:C:59:PRO:HG2	1:C:290:TYR:HE2	1.83	0.43
1:C:215:THR:O	1:C:218:HIS:HB2	2.17	0.43
1:C:681:HIS:HB2	1:C:716:PHE:CE1	2.53	0.43
1:C:732:SER:HB3	1:C:764:VAL:HG13	1.99	0.43
1:C:838:HIS:CD2	1:C:1201:HIS:HB2	2.53	0.43
1:C:1838:PHE:O	1:C:1839:VAL:C	2.57	0.43
1:C:2247:GLN:HE21	1:C:2279:SER:C	2.20	0.43
1:C:3802:ILE:HD11	1:C:3883:ASP:O	2.18	0.43
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	2.00	0.43
1:C:4149:ASN:HA	1:C:4194:TYR:CE2	2.53	0.43
1:C:4164:LEU:HA	1:C:4167:ALA:HB3	2.00	0.43
1:C:4889:VAL:O	1:C:4893:ALA:N	2.51	0.43
1:C:4901:ILE:HG12	1:C:4902:GLU:N	2.32	0.43
1:E:149:THR:HG23	1:E:174:VAL:HG22	1.99	0.43
1:E:601:ASP:OD1	1:E:1665:HIS:ND1	2.51	0.43
1:E:1207:ASP:O	1:E:1210:SER:OG	2.24	0.43
1:E:1678:ASN:HD21	1:E:1681:VAL:HG21	1.83	0.43
1:E:1698:LEU:HD11	1:E:1715:LEU:HD13	2.00	0.43
1:E:1708:ARG:NH2	1:E:1712:TYR:OH	2.51	0.43
1:E:2204:HIS:O	1:E:2208:MET:HE2	2.18	0.43
1:E:2247:GLN:HE21	1:E:2279:SER:C	2.20	0.43
1:E:3998:HIS:O	1:E:4002:LYS:HG2	2.18	0.43
1:E:4149:ASN:HA	1:E:4194:TYR:CE2	2.53	0.43
1:E:4574:ASN:O	1:E:4577:LEU:HB2	2.18	0.43
1:G:35:LEU:HD11	1:G:49:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:886:ARG:HB3	1:G:891:TRP:CG	2.53	0.43
1:G:2095:GLN:HG3	1:G:2127:GLN:HB3	2.00	0.43
1:G:3884:LEU:O	1:G:3887:PHE:HB3	2.18	0.43
1:G:3924:LEU:HD23	1:G:3988:ALA:HB2	1.99	0.43
1:G:3993:LEU:O	1:G:3997:ALA:N	2.49	0.43
1:G:4580:TYR:CD2	1:G:4807:PHE:HZ	2.35	0.43
1:A:557:SER:HA	1:A:560:ILE:HD13	1.99	0.43
1:A:596:ASN:HB2	1:A:599:VAL:HG23	1.93	0.43
1:A:706:GLY:N	1:A:711:LEU:HD13	2.29	0.43
1:A:1018:ASN:O	1:A:1021:LEU:HG	2.18	0.43
1:A:1075:PHE:HA	1:A:1237:TRP:O	2.18	0.43
1:A:1131:ARG:CG	1:A:1139:PHE:HB2	2.48	0.43
1:A:1678:ASN:HD21	1:A:1681:VAL:HG21	1.83	0.43
1:A:1736:VAL:HA	1:A:1737:PRO:HD2	1.78	0.43
1:A:1763:PRO:CG	1:A:1863:LEU:HD11	2.43	0.43
1:A:1777:PHE:CD1	1:A:1799:SER:HB2	2.52	0.43
1:A:2159:LEU:O	1:A:2163:ARG:HB2	2.18	0.43
1:A:2326:CYS:HA	1:A:2329:GLU:HG2	2.01	0.43
1:A:2763:HIS:CD2	1:A:2794:TYR:HB2	2.53	0.43
1:A:3802:ILE:HD11	1:A:3883:ASP:O	2.18	0.43
1:A:3841:VAL:HG12	1:A:3843:ASP:N	2.31	0.43
1:A:4149:ASN:HA	1:A:4194:TYR:CE2	2.53	0.43
1:A:4921:PHE:O	1:A:4925:ILE:HB	2.18	0.43
1:C:125:ARG:HB3	1:C:134:ASP:OD1	2.09	0.43
1:C:858:THR:CG2	1:C:991:ASN:HD21	2.31	0.43
1:C:1678:ASN:HD21	1:C:1681:VAL:HG21	1.83	0.43
1:C:1810:LYS:NZ	1:C:1813:ARG:HH22	2.16	0.43
1:C:4688:ILE:HG23	1:C:4732:PHE:HZ	1.82	0.43
1:C:4802:GLY:HA2	1:C:4805:ASN:O	2.18	0.43
1:C:4921:PHE:O	1:C:4925:ILE:HB	2.18	0.43
1:E:2095:GLN:HG3	1:E:2127:GLN:HB3	2.00	0.43
1:E:2204:HIS:HB3	1:E:2239:PHE:CE2	2.53	0.43
1:E:3726:ALA:HB3	1:E:3796:SER:OG	2.19	0.43
1:E:3802:ILE:HD11	1:E:3883:ASP:O	2.18	0.43
1:G:557:SER:HA	1:G:560:ILE:HD13	1.99	0.43
1:G:597:HIS:NE2	1:G:1661:ARG:HD2	2.33	0.43
1:G:706:GLY:N	1:G:711:LEU:HD13	2.29	0.43
1:G:1274:HIS:HB2	1:G:1564:PHE:O	2.18	0.43
1:G:1286:MET:CE	1:G:1555:LEU:HD11	2.05	0.43
1:G:1438:ARG:HG3	1:G:1511:LEU:CD2	2.48	0.43
1:G:3998:HIS:O	1:G:4002:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4682:GLU:O	1:G:4727:LYS:HG2	2.18	0.43
1:G:4802:GLY:HA2	1:G:4805:ASN:O	2.18	0.43
1:A:13:PHE:HE2	1:A:164:ARG:HH12	1.51	0.43
1:A:50:GLU:O	1:A:52:THR:HG23	2.19	0.43
1:A:601:ASP:OD1	1:A:1665:HIS:ND1	2.51	0.43
1:A:1097:THR:HA	1:A:1143:TRP:CH2	2.53	0.43
1:A:1099:GLU:HG2	1:A:1127:HIS:HB3	1.99	0.43
1:A:1552:VAL:HG12	1:A:1554:VAL:HG23	2.00	0.43
1:A:1848:LEU:HD21	1:A:1854:PHE:CZ	2.53	0.43
1:A:3983:SER:C	1:A:3985:LEU:H	2.21	0.43
1:A:4164:LEU:HA	1:A:4167:ALA:HB3	2.00	0.43
1:A:4802:GLY:HA3	1:A:4809:PHE:HD1	1.83	0.43
1:A:4946:GLN:O	1:A:4950:VAL:HG23	2.19	0.43
1:C:575:LEU:HD22	1:C:606:LEU:HA	2.00	0.43
1:C:675:LEU:O	1:C:676:THR:OG1	2.28	0.43
1:C:1836:PHE:O	1:C:1840:PRO:HD2	2.17	0.43
1:C:1955:VAL:HG22	1:C:2134:LEU:HG	1.99	0.43
1:C:2159:LEU:O	1:C:2163:ARG:HB2	2.18	0.43
1:C:2454:ARG:O	1:C:2458:ARG:HG3	2.18	0.43
1:C:2745:VAL:HG21	1:C:2818:ALA:HB2	1.99	0.43
1:C:2763:HIS:CD2	1:C:2794:TYR:HB2	2.53	0.43
1:C:4221:VAL:O	1:C:4225:GLY:N	2.51	0.43
1:C:4574:ASN:O	1:C:4577:LEU:HB2	2.18	0.43
1:C:4732:PHE:CE1	1:C:4736:ARG:HD2	2.51	0.43
1:C:4898:GLY:HA2	1:C:4901:ILE:HG21	1.95	0.43
1:C:4983:HIS:O	1:C:4985:LEU:N	2.52	0.43
1:E:59:PRO:HG2	1:E:290:TYR:HE2	1.83	0.43
1:E:640:TYR:CD1	1:E:1636:MET:HE2	2.53	0.43
1:E:1438:ARG:HG3	1:E:1511:LEU:CD2	2.48	0.43
1:E:1552:VAL:HG12	1:E:1554:VAL:HG23	2.00	0.43
1:E:1657:LEU:O	1:E:1660:GLN:HB3	2.17	0.43
1:E:1762:LEU:CD1	1:E:1763:PRO:N	2.81	0.43
1:E:1856:ASP:O	1:E:1859:VAL:HB	2.17	0.43
1:E:2752:ASP:HA	1:E:2755:ILE:HD12	2.00	0.43
1:E:2754:PHE:CZ	1:E:2930:LEU:HD23	2.53	0.43
1:E:3884:LEU:O	1:E:3887:PHE:HB3	2.18	0.43
1:E:3924:LEU:HD23	1:E:3988:ALA:HB2	1.99	0.43
1:E:4150:LEU:O	1:E:4154:VAL:N	2.36	0.43
1:E:4187:SER:OG	1:E:4189:ARG:NE	2.52	0.43
1:E:4999:ASP:HB2	1:E:5002:GLU:HG3	2.00	0.43
1:G:1248:VAL:HA	1:G:1249:PRO:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2204:HIS:O	1:G:2208:MET:HE2	2.18	0.43
1:G:2326:CYS:HA	1:G:2329:GLU:HG2	2.01	0.43
1:A:1248:VAL:HA	1:A:1249:PRO:HD2	1.83	0.43
1:A:1438:ARG:HG3	1:A:1511:LEU:CD2	2.48	0.43
1:A:1455:PRO:HD3	1:A:1547:LYS:O	2.19	0.43
1:A:2552:ARG:O	1:A:2556:LEU:HG	2.18	0.43
1:A:3817:LEU:HD13	1:A:3899:PHE:HD1	1.83	0.43
1:A:3993:LEU:O	1:A:3997:ALA:N	2.49	0.43
1:C:221:ARG:NE	1:C:253:CYS:O	2.52	0.43
1:C:358:THR:OG1	1:C:359:TYR:N	2.46	0.43
1:C:674:PHE:CD2	2:D:40:ARG:NH1	2.86	0.43
1:C:1133:HIS:HD2	1:C:1134:LEU:HB2	1.82	0.43
1:C:1694:LEU:HB3	1:C:1715:LEU:HD12	1.99	0.43
1:C:1856:ASP:O	1:C:1859:VAL:HB	2.17	0.43
1:C:4222:VAL:HB	1:C:4950:VAL:HG22	1.99	0.43
1:C:4580:TYR:CD2	1:C:4807:PHE:HZ	2.35	0.43
1:C:4687:TYR:CE2	1:C:4703:ARG:HA	2.49	0.43
1:E:273:HIS:N	1:E:334:MET:O	2.51	0.43
1:E:545:ASP:OD1	1:E:546:TRP:N	2.51	0.43
1:E:558:SER:O	1:E:561:LEU:HB3	2.19	0.43
1:E:595:ARG:HG2	1:E:1662:PHE:CD2	2.54	0.43
1:E:597:HIS:HB3	1:E:1665:HIS:CD2	2.53	0.43
1:E:679:ALA:C	1:E:680:THR:O	2.47	0.43
1:E:1042:ALA:O	1:E:1046:LEU:HG	2.18	0.43
1:E:1466:PHE:HA	1:E:1467:ASP:HA	1.70	0.43
1:E:1777:PHE:CD1	1:E:1799:SER:HB2	2.52	0.43
1:E:3970:GLN:HE22	1:E:4029:SER:HB3	1.83	0.43
1:E:4688:ILE:HG23	1:E:4732:PHE:HZ	1.82	0.43
1:G:516:LYS:NZ	1:G:555:GLU:O	2.50	0.43
1:G:558:SER:O	1:G:561:LEU:N	2.51	0.43
1:G:1131:ARG:CD	1:G:1139:PHE:CB	2.81	0.43
1:G:1689:VAL:O	1:G:1693:GLN:HB3	2.19	0.43
1:G:1943:LEU:HD21	1:G:2098:VAL:CG2	2.48	0.43
1:G:4147:LEU:HD23	1:G:4147:LEU:HA	1.77	0.43
1:G:4149:ASN:HA	1:G:4194:TYR:CE2	2.53	0.43
1:G:4802:GLY:HA3	1:G:4809:PHE:HD1	1.83	0.43
1:G:4889:VAL:O	1:G:4893:ALA:N	2.51	0.43
1:G:4946:GLN:O	1:G:4950:VAL:HG23	2.19	0.43
1:A:221:ARG:NE	1:A:253:CYS:O	2.52	0.43
1:A:545:ASP:OD1	1:A:546:TRP:N	2.51	0.43
1:A:558:SER:O	1:A:561:LEU:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:HIS:CD2	1:A:1201:HIS:HB2	2.53	0.43
1:A:1131:ARG:CD	1:A:1139:PHE:CB	2.81	0.43
1:A:1835:GLU:HG3	1:A:1932:PRO:CB	2.49	0.43
1:A:2812:SER:HG	1:A:2882:TYR:HH	1.64	0.43
1:A:3726:ALA:HB3	1:A:3796:SER:OG	2.19	0.43
1:A:4688:ILE:HG23	1:A:4732:PHE:HZ	1.82	0.43
1:A:4983:HIS:O	1:A:4985:LEU:N	2.52	0.43
1:C:421:PHE:HE1	1:C:497:TYR:HH	1.66	0.43
1:C:558:SER:O	1:C:561:LEU:HB3	2.19	0.43
1:C:558:SER:O	1:C:561:LEU:N	2.51	0.43
1:C:595:ARG:HG2	1:C:1662:PHE:CE2	2.53	0.43
1:C:597:HIS:HB3	1:C:1665:HIS:CD2	2.53	0.43
1:C:886:ARG:HB3	1:C:891:TRP:CG	2.53	0.43
1:C:909:ASN:O	1:C:912:SER:OG	2.22	0.43
1:C:1047:LEU:C	1:C:1050:GLY:H	2.21	0.43
1:C:1078:GLU:HB3	1:C:1081:TYR:CD2	2.54	0.43
1:C:1455:PRO:HD3	1:C:1547:LYS:O	2.19	0.43
1:C:1835:GLU:HG3	1:C:1932:PRO:CB	2.49	0.43
1:C:4159:ARG:HG3	1:C:4160:LEU:H	1.83	0.43
1:C:4580:TYR:HD2	1:C:4807:PHE:CZ	2.35	0.43
1:C:4946:GLN:O	1:C:4950:VAL:HG23	2.19	0.43
1:E:563:VAL:O	1:E:567:VAL:HG23	2.18	0.43
1:E:595:ARG:CB	1:E:1662:PHE:CE1	2.85	0.43
1:E:597:HIS:NE2	1:E:1661:ARG:HD2	2.33	0.43
1:E:641:VAL:HG21	1:E:704:GLY:HA2	1.99	0.43
1:E:669:ASP:OD1	1:E:790:ARG:HG3	2.19	0.43
1:E:2454:ARG:O	1:E:2458:ARG:HG3	2.18	0.43
1:E:2761:TYR:CZ	1:E:2862:LEU:HD13	2.54	0.43
1:E:2822:THR:O	1:E:2937:VAL:HA	2.19	0.43
1:E:4563:ARG:NH1	1:E:4791:TYR:HE2	2.16	0.43
1:E:4983:HIS:O	1:E:4985:LEU:N	2.52	0.43
1:G:50:GLU:O	1:G:52:THR:HG23	2.19	0.43
1:G:291:LEU:HG	1:G:314:PHE:CE2	2.53	0.43
1:G:595:ARG:HG2	1:G:1662:PHE:CE2	2.53	0.43
1:G:708:GLY:H	1:G:711:LEU:HD12	1.84	0.43
1:G:1078:GLU:HA	1:G:1237:TRP:CE2	2.53	0.43
1:G:1694:LEU:HB3	1:G:1715:LEU:HD12	1.99	0.43
1:G:2758:PHE:HD2	1:G:2809:ILE:HD13	1.82	0.43
1:G:2763:HIS:CD2	1:G:2794:TYR:HB2	2.53	0.43
1:G:3726:ALA:HB3	1:G:3796:SER:OG	2.19	0.43
1:G:4039:MET:O	1:G:4043:GLN:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4821:LYS:HA	1:G:4824:ARG:HE	1.83	0.43
1:A:103:TYR:CE2	1:A:163:VAL:HA	2.54	0.43
1:A:183:SER:O	1:A:190:GLN:N	2.34	0.43
1:A:252:VAL:HA	1:A:255:HIS:ND1	2.34	0.43
1:A:453:GLU:HA	1:A:454:PRO:HD3	1.78	0.43
1:A:597:HIS:CD2	1:A:1661:ARG:HH11	2.37	0.43
1:A:597:HIS:HB3	1:A:1665:HIS:CD2	2.53	0.43
1:A:638:ILE:HG23	1:A:678:GLN:HE22	1.84	0.43
1:A:669:ASP:OD1	1:A:790:ARG:HG3	2.19	0.43
1:A:708:GLY:H	1:A:711:LEU:HD12	1.84	0.43
1:A:858:THR:CG2	1:A:991:ASN:HD21	2.31	0.43
1:A:889:GLN:HB3	1:A:891:TRP:CD1	2.53	0.43
1:A:1047:LEU:C	1:A:1050:GLY:H	2.21	0.43
1:A:1943:LEU:HD21	1:A:2098:VAL:CG2	2.48	0.43
1:A:2204:HIS:HB3	1:A:2239:PHE:CE2	2.53	0.43
1:A:4083:ASP:CG	1:A:4087:LEU:O	2.56	0.43
1:A:4821:LYS:HA	1:A:4824:ARG:HE	1.83	0.43
1:C:16:THR:O	1:C:98:HIS:ND1	2.48	0.43
1:C:35:LEU:HD11	1:C:49:LEU:HD22	2.00	0.43
1:C:706:GLY:N	1:C:711:LEU:HD13	2.29	0.43
1:C:1762:LEU:CD1	1:C:1763:PRO:N	2.81	0.43
1:C:2204:HIS:HB3	1:C:2239:PHE:CE2	2.53	0.43
1:C:3924:LEU:HD23	1:C:3988:ALA:HB2	1.99	0.43
1:C:4157:ASP:O	1:C:4161:ARG:N	2.41	0.43
2:D:26:TYR:CE1	2:D:39:SER:HB3	2.53	0.43
1:E:16:THR:O	1:E:98:HIS:ND1	2.48	0.43
1:E:475:GLN:NE2	1:E:528:SER:O	2.52	0.43
1:E:708:GLY:H	1:E:711:LEU:HD12	1.84	0.43
1:E:732:SER:HB3	1:E:764:VAL:HG13	1.99	0.43
1:E:889:GLN:HB3	1:E:891:TRP:CD1	2.53	0.43
1:E:1762:LEU:HD11	1:E:1863:LEU:HD12	2.00	0.43
1:E:1763:PRO:CG	1:E:1863:LEU:HD11	2.43	0.43
1:E:1943:LEU:HD21	1:E:2098:VAL:CG2	2.48	0.43
1:E:2237:CYS:O	1:E:2241:ARG:HG2	2.18	0.43
1:E:2326:CYS:HA	1:E:2329:GLU:HG2	2.01	0.43
1:E:2745:VAL:HG21	1:E:2818:ALA:HB2	1.99	0.43
1:E:4221:VAL:O	1:E:4225:GLY:N	2.51	0.43
1:G:215:THR:O	1:G:218:HIS:HB2	2.17	0.43
1:G:280:LEU:N	1:G:314:PHE:O	2.42	0.43
1:G:636:ASN:HA	1:G:1693:GLN:OE1	2.19	0.43
1:G:669:ASP:OD1	1:G:790:ARG:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1042:ALA:O	1:G:1046:LEU:HG	2.18	0.43
1:G:1127:HIS:O	1:G:1129:GLY:N	2.43	0.43
1:G:1829:PRO:O	1:G:1831:GLY:N	2.51	0.43
1:G:3992:PHE:O	1:G:3996:PHE:CD2	2.71	0.43
1:G:4574:ASN:O	1:G:4577:LEU:HB2	2.18	0.43
1:G:4898:GLY:HA2	1:G:4901:ILE:HG21	1.95	0.43
1:G:4983:HIS:O	1:G:4985:LEU:N	2.52	0.43
1:A:404:ILE:HG12	1:A:478:PHE:CD1	2.54	0.43
1:A:595:ARG:HG2	1:A:1662:PHE:CD2	2.54	0.43
1:A:597:HIS:NE2	1:A:1661:ARG:HD2	2.33	0.43
1:A:636:ASN:HA	1:A:1693:GLN:OE1	2.19	0.43
1:A:1024:TYR:O	1:A:1027:LEU:HG	2.19	0.43
1:A:1810:LYS:NZ	1:A:1813:ARG:HH22	2.16	0.43
1:A:1838:PHE:O	1:A:1839:VAL:C	2.57	0.43
1:A:2237:CYS:O	1:A:2241:ARG:HG2	2.18	0.43
1:A:3884:LEU:O	1:A:3887:PHE:HB3	2.18	0.43
1:C:50:GLU:O	1:C:52:THR:HG23	2.19	0.43
1:C:563:VAL:O	1:C:567:VAL:HG23	2.18	0.43
1:C:1689:VAL:O	1:C:1693:GLN:HB3	2.19	0.43
1:C:1698:LEU:HD11	1:C:1715:LEU:HD13	2.00	0.43
1:C:1764:GLY:O	1:C:1856:ASP:HB3	2.19	0.43
1:C:2301:TYR:HB3	1:C:2331:TYR:CE2	2.54	0.43
1:C:2380:ILE:O	1:C:2384:ILE:HG13	2.19	0.43
1:C:3969:ILE:O	1:C:3971:GLY:O	2.37	0.43
1:E:215:THR:HG22	1:E:273:HIS:HD2	1.83	0.43
1:E:221:ARG:NE	1:E:253:CYS:O	2.52	0.43
1:E:291:LEU:HG	1:E:314:PHE:CE2	2.53	0.43
1:E:595:ARG:HG2	1:E:1662:PHE:CE2	2.53	0.43
1:E:597:HIS:CD2	1:E:1661:ARG:HH11	2.37	0.43
1:E:711:LEU:HA	1:E:711:LEU:HD23	1.84	0.43
1:E:886:ARG:HB3	1:E:891:TRP:CG	2.53	0.43
1:E:1018:ASN:O	1:E:1021:LEU:HG	2.18	0.43
1:E:1099:GLU:HG2	1:E:1127:HIS:HB3	1.99	0.43
1:E:1178:ALA:O	1:E:1180:ARG:HG3	2.19	0.43
1:E:1455:PRO:HD3	1:E:1547:LYS:O	2.19	0.43
1:E:2552:ARG:O	1:E:2556:LEU:HG	2.18	0.43
1:E:2927:LEU:HA	1:E:2930:LEU:HD12	2.01	0.43
1:E:4802:GLY:HA2	1:E:4805:ASN:O	2.18	0.43
1:G:220:LEU:CD1	1:G:390:LEU:HD22	2.49	0.43
1:G:221:ARG:NE	1:G:253:CYS:O	2.52	0.43
1:G:222:LEU:HD22	1:G:231:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:595:ARG:HG2	1:G:1662:PHE:CD2	2.54	0.43
1:G:597:HIS:CD2	1:G:1661:ARG:HH11	2.37	0.43
1:G:602:VAL:O	1:G:605:SER:OG	2.25	0.43
1:G:829:TYR:OH	1:G:1616:GLU:OE1	2.28	0.43
1:G:993:HIS:CE1	1:G:1020:ARG:HB3	2.45	0.43
1:G:2196:ASN:HA	1:G:2199:ARG:HG2	2.01	0.43
1:G:2754:PHE:CZ	1:G:2930:LEU:HD23	2.53	0.43
1:G:2761:TYR:CZ	1:G:2862:LEU:HD13	2.54	0.43
1:G:3669:PHE:O	1:G:3670:GLU:C	2.54	0.43
1:G:4187:SER:OG	1:G:4189:ARG:NE	2.52	0.43
1:G:4563:ARG:NH1	1:G:4791:TYR:HE2	2.16	0.43
1:G:4688:ILE:HG23	1:G:4732:PHE:HZ	1.82	0.43
2:H:16:PRO:HD2	2:H:64:ALA:O	2.19	0.43
1:A:161:GLU:OE2	1:A:164:ARG:NH2	2.50	0.43
1:A:3992:PHE:O	1:A:3996:PHE:CD2	2.71	0.43
1:A:4010:ILE:CD1	1:A:4010:ILE:C	2.85	0.43
1:A:4227:GLU:HG2	1:A:4228:ALA:N	2.34	0.43
2:B:16:PRO:HD2	2:B:64:ALA:O	2.19	0.43
1:C:597:HIS:NE2	1:C:1661:ARG:HD2	2.33	0.43
1:C:640:TYR:CE1	1:C:1636:MET:HG2	2.54	0.43
1:C:1042:ALA:O	1:C:1046:LEU:HG	2.18	0.43
1:C:1155:LEU:HD22	1:C:1184:ILE:HG12	2.01	0.43
1:C:1178:ALA:O	1:C:1180:ARG:HG3	2.19	0.43
1:C:3817:LEU:HD13	1:C:3899:PHE:HD1	1.83	0.43
1:C:3970:GLN:HE22	1:C:4029:SER:HB3	1.83	0.43
1:C:4220:ASP:O	1:C:4224:GLU:CG	2.66	0.43
1:E:50:GLU:O	1:E:52:THR:HG23	2.19	0.43
1:E:215:THR:O	1:E:218:HIS:HB2	2.17	0.43
1:E:220:LEU:CD1	1:E:390:LEU:HD22	2.49	0.43
1:E:415:ILE:HG23	1:E:493:ARG:HD2	2.01	0.43
1:E:636:ASN:HA	1:E:1693:GLN:OE1	2.19	0.43
1:E:858:THR:CG2	1:E:991:ASN:HD21	2.31	0.43
1:E:1078:GLU:HB3	1:E:1081:TYR:CD2	2.54	0.43
1:E:1131:ARG:CG	1:E:1139:PHE:HB2	2.48	0.43
1:E:1286:MET:N	1:E:1555:LEU:HD12	2.21	0.43
1:E:3817:LEU:HD13	1:E:3899:PHE:HD1	1.83	0.43
1:E:3889:GLN:O	1:E:3893:GLU:HG3	2.18	0.43
1:G:252:VAL:HA	1:G:255:HIS:ND1	2.34	0.43
1:G:475:GLN:NE2	1:G:528:SER:O	2.52	0.43
1:G:1131:ARG:CG	1:G:1139:PHE:HB2	2.48	0.43
1:G:1287:LEU:O	1:G:1553:PHE:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1762:LEU:CD1	1:G:1763:PRO:N	2.81	0.43
1:G:1762:LEU:HD11	1:G:1863:LEU:HD12	2.00	0.43
1:G:2552:ARG:O	1:G:2556:LEU:HG	2.18	0.43
1:G:3795:SER:O	1:G:3799:LYS:HG2	2.19	0.43
1:G:3817:LEU:HD13	1:G:3899:PHE:HD1	1.83	0.43
1:G:4083:ASP:CG	1:G:4087:LEU:O	2.56	0.43
1:G:4107:GLU:O	1:G:4110:PHE:HB3	2.19	0.43
2:H:76:ILE:O	2:H:96:THR:HG23	2.19	0.43
1:A:195:PHE:CZ	1:C:2358:ILE:HG23	2.45	0.43
1:A:475:GLN:NE2	1:A:528:SER:O	2.52	0.43
1:A:563:VAL:O	1:A:567:VAL:HG23	2.18	0.43
1:A:619:ASP:O	1:A:622:THR:OG1	2.27	0.43
1:A:1178:ALA:O	1:A:1180:ARG:HG3	2.19	0.43
1:A:2380:ILE:O	1:A:2384:ILE:HG13	2.19	0.43
1:A:2380:ILE:HG23	1:A:2423:MET:HE1	2.00	0.43
1:A:2761:TYR:CZ	1:A:2862:LEU:HD13	2.54	0.43
1:A:3795:SER:O	1:A:3799:LYS:HG2	2.19	0.43
1:A:4187:SER:OG	1:A:4189:ARG:NE	2.52	0.43
1:A:4898:GLY:HA2	1:A:4901:ILE:HG21	1.95	0.43
1:C:161:GLU:OE2	1:C:164:ARG:NH2	2.50	0.43
1:C:274:LEU:HD12	1:C:278:GLN:NE2	2.34	0.43
1:C:679:ALA:C	1:C:680:THR:O	2.47	0.43
1:C:1078:GLU:HA	1:C:1237:TRP:CE2	2.53	0.43
1:C:1247:PRO:HB3	1:C:1600:LEU:HD13	2.01	0.43
1:C:2326:CYS:HA	1:C:2329:GLU:HG2	2.01	0.43
1:C:2812:SER:OG	1:C:2882:TYR:OH	2.35	0.43
1:C:3795:SER:O	1:C:3799:LYS:HG2	2.19	0.43
1:C:4187:SER:OG	1:C:4189:ARG:NE	2.52	0.43
1:C:4682:GLU:O	1:C:4727:LYS:HG2	2.18	0.43
1:E:274:LEU:HD12	1:E:278:GLN:NE2	2.34	0.43
1:E:1728:ARG:CG	1:E:1850:VAL:HG11	2.49	0.43
1:E:4107:GLU:O	1:E:4110:PHE:HB3	2.19	0.43
2:F:76:ILE:O	2:F:96:THR:HG23	2.19	0.43
1:G:103:TYR:CE2	1:G:163:VAL:HA	2.54	0.43
1:G:273:HIS:N	1:G:334:MET:O	2.51	0.43
1:G:563:VAL:O	1:G:567:VAL:HG23	2.18	0.43
1:G:595:ARG:HB3	1:G:1662:PHE:CG	2.43	0.43
1:G:638:ILE:HG23	1:G:678:GLN:HE22	1.84	0.43
1:G:804:PRO:C	1:G:806:PRO:N	2.73	0.43
1:G:1961:PHE:HZ	1:G:2063:LEU:CD2	2.03	0.43
1:G:2821:TRP:HH2	1:G:2877:GLN:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3930:ILE:HG22	1:G:3995:VAL:HG11	2.00	0.43
1:G:4673:ARG:HH12	1:G:4698:LYS:HB3	1.84	0.43
1:A:1287:LEU:O	1:A:1553:PHE:HA	2.19	0.43
1:A:1808:ARG:HB3	1:A:1854:PHE:CE1	2.42	0.43
1:A:1829:PRO:O	1:A:1831:GLY:N	2.51	0.43
1:A:2454:ARG:O	1:A:2458:ARG:HG3	2.18	0.43
1:A:4150:LEU:O	1:A:4154:VAL:N	2.36	0.43
1:C:708:GLY:H	1:C:711:LEU:HD12	1.84	0.43
1:C:743:VAL:O	1:C:760:ASN:N	2.39	0.43
1:C:1024:TYR:O	1:C:1027:LEU:HG	2.19	0.43
1:C:1154:ASP:O	1:C:1158:ASN:HA	2.19	0.43
1:C:1207:ASP:O	1:C:1210:SER:OG	2.24	0.43
1:C:1478:ASP:C	1:C:1480:GLN:N	2.68	0.43
1:C:2752:ASP:HA	1:C:2755:ILE:HD12	2.00	0.43
1:C:3891:LEU:HB3	1:C:3899:PHE:HE2	1.83	0.43
1:E:2165:LEU:HD12	1:E:2168:VAL:HB	2.00	0.43
1:E:4567:LEU:HD11	1:E:4816:ILE:HD12	2.01	0.43
1:E:4673:ARG:HH12	1:E:4698:LYS:HB3	1.84	0.43
1:E:4802:GLY:HA3	1:E:4809:PHE:HD1	1.83	0.43
1:E:4921:PHE:O	1:E:4925:ILE:HB	2.18	0.43
1:G:273:HIS:HE1	1:G:334:MET:CE	2.18	0.43
1:G:732:SER:HB3	1:G:764:VAL:HG13	1.99	0.43
1:G:838:HIS:CD2	1:G:1201:HIS:HB2	2.53	0.43
1:G:1018:ASN:O	1:G:1021:LEU:HG	2.18	0.43
1:G:1154:ASP:O	1:G:1158:ASN:HA	2.19	0.43
1:G:1716:ILE:O	1:G:1721:GLU:N	2.49	0.43
1:G:1835:GLU:HG3	1:G:1932:PRO:CB	2.49	0.43
1:G:2159:LEU:O	1:G:2163:ARG:HB2	2.18	0.43
1:G:2301:TYR:HB3	1:G:2331:TYR:CE2	2.54	0.43
1:G:3969:ILE:O	1:G:3971:GLY:O	2.37	0.43
1:G:4921:PHE:O	1:G:4925:ILE:HB	2.18	0.43
1:A:681:HIS:HB2	1:A:716:PHE:CE1	2.53	0.42
1:A:926:GLY:O	1:A:930:LYS:HG3	2.19	0.42
1:A:1042:ALA:O	1:A:1046:LEU:HG	2.18	0.42
1:A:1221:GLU:HB2	1:A:1223:PHE:CE2	2.54	0.42
1:A:1297:PHE:CB	1:A:1545:ASN:HA	2.42	0.42
1:A:1839:VAL:HB	1:A:1840:PRO:HD3	2.01	0.42
1:A:1944:GLU:HG3	1:A:2123:LEU:HD21	1.99	0.42
1:A:2821:TRP:HH2	1:A:2877:GLN:HB3	1.84	0.42
1:A:3844:LEU:HD11	1:A:3936:TYR:CB	2.49	0.42
1:A:4673:ARG:HH12	1:A:4698:LYS:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:ARG:HG2	1:C:1662:PHE:CD2	2.54	0.42
1:C:638:ILE:HG23	1:C:678:GLN:HE22	1.84	0.42
1:C:1221:GLU:HB2	1:C:1223:PHE:CE2	2.54	0.42
1:C:2143:THR:N	1:C:3651:ASN:OD1	2.38	0.42
1:C:2165:LEU:HD12	1:C:2168:VAL:HB	2.00	0.42
1:C:2761:TYR:CZ	1:C:2862:LEU:HD13	2.54	0.42
1:C:4112:LEU:HD22	1:C:4123:ILE:HD13	2.01	0.42
1:C:4897:ILE:HG23	1:C:4898:GLY:N	2.34	0.42
1:C:4999:ASP:HB2	1:C:5002:GLU:HG3	2.00	0.42
1:E:222:LEU:HD22	1:E:231:LEU:HD23	2.01	0.42
1:E:1130:GLN:HB2	1:E:1137:GLU:O	2.19	0.42
1:E:1247:PRO:HB3	1:E:1600:LEU:HD13	2.01	0.42
1:E:1639:LEU:HD23	1:E:1650:ILE:HG13	2.00	0.42
1:E:2196:ASN:HA	1:E:2199:ARG:HG2	2.01	0.42
1:E:2449:GLU:O	1:E:2452:ARG:HG2	2.19	0.42
1:E:3787:LYS:HG3	1:E:3788:GLY:H	1.84	0.42
1:E:3795:SER:O	1:E:3799:LYS:HG2	2.19	0.42
1:E:4112:LEU:HD22	1:E:4123:ILE:HD13	2.01	0.42
1:E:4164:LEU:HA	1:E:4167:ALA:HB3	2.00	0.42
1:E:4897:ILE:HG23	1:E:4898:GLY:N	2.34	0.42
1:E:4904:PRO:HD3	1:E:4913:ARG:HH11	1.83	0.42
1:E:4908:GLU:HG2	1:E:4912:TYR:CE2	2.54	0.42
1:G:487:VAL:O	1:G:491:ILE:HG13	2.19	0.42
1:G:781:VAL:HG11	1:G:789:VAL:HG21	2.01	0.42
1:G:1848:LEU:HD21	1:G:1854:PHE:CZ	2.53	0.42
1:G:1944:GLU:HG3	1:G:2123:LEU:HD21	1.99	0.42
1:G:2927:LEU:HA	1:G:2930:LEU:HD12	2.01	0.42
1:G:3669:PHE:HD1	1:G:3669:PHE:N	2.15	0.42
1:G:4567:LEU:HD11	1:G:4816:ILE:HD12	2.01	0.42
1:G:4904:PRO:CB	1:G:4910:GLU:HG3	2.35	0.42
1:A:35:LEU:HD11	1:A:49:LEU:HD22	2.00	0.42
1:A:411:TYR:OH	1:A:445:LEU:HD12	2.19	0.42
1:A:993:HIS:CE1	1:A:1020:ARG:HB3	2.45	0.42
1:A:1764:GLY:O	1:A:1856:ASP:HB3	2.19	0.42
1:A:2165:LEU:HD12	1:A:2168:VAL:HB	2.00	0.42
1:A:2822:THR:O	1:A:2937:VAL:HA	2.19	0.42
1:A:2927:LEU:HA	1:A:2930:LEU:HD12	2.01	0.42
1:A:3984:ARG:CD	1:G:161:GLU:CG	2.94	0.42
1:A:4687:TYR:CE2	1:A:4703:ARG:HA	2.49	0.42
1:C:453:GLU:HA	1:C:454:PRO:HD3	1.78	0.42
1:C:597:HIS:CD2	1:C:1661:ARG:HH11	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:831:ARG:HG3	1:C:840:VAL:HG11	2.01	0.42
1:C:1248:VAL:HA	1:C:1249:PRO:HD2	1.83	0.42
1:C:1287:LEU:O	1:C:1553:PHE:HA	2.19	0.42
1:C:2552:ARG:O	1:C:2556:LEU:HG	2.18	0.42
1:C:2821:TRP:HH2	1:C:2877:GLN:HB3	1.84	0.42
1:C:3884:LEU:O	1:C:3887:PHE:HB3	2.18	0.42
1:E:640:TYR:CE1	1:E:1636:MET:HG2	2.54	0.42
1:E:926:GLY:O	1:E:930:LYS:HG3	2.19	0.42
1:E:1287:LEU:O	1:E:1553:PHE:HA	2.19	0.42
1:E:1564:PHE:HE2	1:E:1601:MET:CE	2.32	0.42
1:E:1764:GLY:O	1:E:1856:ASP:HB3	2.19	0.42
1:E:2380:ILE:O	1:E:2384:ILE:HG13	2.19	0.42
1:E:2821:TRP:HH2	1:E:2877:GLN:HB3	1.84	0.42
1:E:3983:SER:C	1:E:3985:LEU:H	2.21	0.42
1:E:4159:ARG:HG3	1:E:4160:LEU:H	1.83	0.42
1:E:4946:GLN:O	1:E:4950:VAL:HG23	2.19	0.42
1:G:317:ARG:NH1	1:G:349:GLN:OE1	2.52	0.42
1:G:558:SER:O	1:G:561:LEU:HB3	2.19	0.42
1:G:674:PHE:CD2	2:H:40:ARG:NH1	2.86	0.42
1:G:1130:GLN:HB2	1:G:1137:GLU:O	2.19	0.42
1:G:1155:LEU:HD22	1:G:1184:ILE:HG12	2.01	0.42
1:G:1764:GLY:O	1:G:1856:ASP:HB3	2.19	0.42
1:G:2822:THR:O	1:G:2937:VAL:HA	2.19	0.42
1:G:4112:LEU:HD22	1:G:4123:ILE:HD13	2.01	0.42
1:G:4159:ARG:HG3	1:G:4160:LEU:H	1.83	0.42
1:G:4688:ILE:CG2	1:G:4732:PHE:CZ	3.03	0.42
1:A:640:TYR:CE1	1:A:1636:MET:HG2	2.54	0.42
1:A:1276:THR:HG22	1:A:1563:GLN:CG	2.50	0.42
1:A:4239:GLU:OE2	1:A:5014:TYR:OH	2.29	0.42
1:C:103:TYR:CE2	1:C:163:VAL:HA	2.54	0.42
1:C:252:VAL:HG23	1:C:257:ARG:NE	2.34	0.42
1:C:487:VAL:O	1:C:491:ILE:HG13	2.19	0.42
1:C:1526:LEU:CG	1:C:1541:GLN:CB	2.98	0.42
1:C:1552:VAL:HG12	1:C:1554:VAL:HG23	2.00	0.42
1:C:1708:ARG:CZ	1:C:1712:TYR:CE2	2.99	0.42
1:C:4107:GLU:O	1:C:4110:PHE:HB3	2.19	0.42
1:C:4673:ARG:HH12	1:C:4698:LYS:HB3	1.84	0.42
1:C:4904:PRO:HD3	1:C:4913:ARG:HH11	1.83	0.42
1:E:317:ARG:NH1	1:E:349:GLN:OE1	2.52	0.42
1:E:404:ILE:HG12	1:E:478:PHE:CD1	2.54	0.42
1:E:541:SER:HA	1:E:574:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:838:HIS:CD2	1:E:1201:HIS:HB2	2.53	0.42
1:E:1154:ASP:O	1:E:1158:ASN:HA	2.19	0.42
1:E:1769:THR:OG1	1:E:1770:SER:N	2.51	0.42
1:E:1848:LEU:HD21	1:E:1854:PHE:CZ	2.53	0.42
1:E:2159:LEU:O	1:E:2163:ARG:HB2	2.18	0.42
1:G:575:LEU:HD22	1:G:606:LEU:HA	2.00	0.42
1:G:640:TYR:CD1	1:G:1636:MET:HE2	2.53	0.42
1:G:640:TYR:CE1	1:G:1636:MET:HG2	2.54	0.42
1:G:1178:ALA:O	1:G:1180:ARG:HG3	2.19	0.42
1:G:1247:PRO:HB3	1:G:1600:LEU:HD13	2.01	0.42
1:G:1564:PHE:HE2	1:G:1601:MET:CE	2.32	0.42
1:G:1726:SER:O	1:G:1730:MET:HG2	2.20	0.42
1:G:1958:LEU:HD11	1:G:3657:TYR:CE2	2.54	0.42
1:G:2449:GLU:O	1:G:2452:ARG:HG2	2.19	0.42
1:G:3844:LEU:HD11	1:G:3936:TYR:CB	2.49	0.42
1:G:4021:LYS:O	1:G:4025:VAL:HG23	2.19	0.42
1:G:4220:ASP:O	1:G:4224:GLU:CG	2.66	0.42
1:A:575:LEU:HD22	1:A:606:LEU:HA	2.00	0.42
1:A:835:ARG:NH2	1:A:1211:LEU:HD13	2.24	0.42
1:A:1078:GLU:HB3	1:A:1081:TYR:CD2	2.54	0.42
1:A:1564:PHE:HE2	1:A:1601:MET:CE	2.32	0.42
1:A:1853:ILE:HG22	1:A:1854:PHE:HD1	1.67	0.42
1:A:2301:TYR:HB3	1:A:2331:TYR:CE2	2.54	0.42
1:A:3916:ILE:CG2	1:A:3980:LEU:HD12	2.49	0.42
1:A:3969:ILE:O	1:A:3971:GLY:O	2.37	0.42
1:A:4813:LEU:O	1:A:4816:ILE:HG22	2.20	0.42
1:A:4908:GLU:HG2	1:A:4912:TYR:CE2	2.54	0.42
1:C:215:THR:HG22	1:C:273:HIS:HD2	1.83	0.42
1:C:1639:LEU:HD23	1:C:1650:ILE:HG13	2.00	0.42
1:C:2449:GLU:O	1:C:2452:ARG:HG2	2.19	0.42
1:C:2822:THR:O	1:C:2937:VAL:HA	2.19	0.42
1:C:2927:LEU:HA	1:C:2930:LEU:HD12	2.01	0.42
2:D:16:PRO:HD2	2:D:64:ALA:O	2.19	0.42
1:E:551:LEU:HA	1:E:560:ILE:HG21	2.01	0.42
1:E:682:LEU:HD22	1:E:787:VAL:HG11	1.86	0.42
1:E:706:GLY:N	1:E:711:LEU:HD13	2.29	0.42
1:E:1075:PHE:HA	1:E:1237:TRP:O	2.18	0.42
1:E:1078:GLU:HA	1:E:1237:TRP:CE2	2.53	0.42
1:E:1808:ARG:HB2	1:E:1854:PHE:CD1	2.52	0.42
1:E:3916:ILE:CG2	1:E:3980:LEU:HD12	2.49	0.42
1:E:4866:SER:HB3	1:E:4873:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4898:GLY:HA3	1:E:4917:ASP:OD2	2.20	0.42
1:G:359:TYR:HA	1:G:376:ALA:HA	2.02	0.42
1:G:415:ILE:HG23	1:G:493:ARG:HD2	2.01	0.42
1:G:926:GLY:O	1:G:930:LYS:HG3	2.19	0.42
1:G:1440:PHE:CD2	1:G:1560:ASN:HB3	2.54	0.42
1:G:1455:PRO:HD3	1:G:1547:LYS:O	2.19	0.42
1:G:2326:CYS:O	1:G:2329:GLU:HG2	2.20	0.42
2:H:88:PRO:O	2:H:90:ILE:HD12	2.20	0.42
1:A:341:TYR:CE1	1:A:392:ARG:HB3	2.54	0.42
1:A:359:TYR:HA	1:A:376:ALA:HA	2.02	0.42
1:A:595:ARG:HG2	1:A:1662:PHE:CE2	2.53	0.42
1:A:711:LEU:HD23	1:A:711:LEU:HA	1.84	0.42
1:A:1247:PRO:HB3	1:A:1600:LEU:HD13	2.01	0.42
1:A:1440:PHE:CD2	1:A:1560:ASN:HB3	2.54	0.42
1:A:1762:LEU:HD11	1:A:1863:LEU:HD12	2.00	0.42
1:A:3891:LEU:HB3	1:A:3899:PHE:HE2	1.83	0.42
1:A:4039:MET:SD	1:A:4042:ARG:NH1	2.93	0.42
1:A:4112:LEU:HD22	1:A:4123:ILE:HD13	2.01	0.42
1:A:4638:TYR:C	1:A:4641:PRO:HD2	2.39	0.42
2:B:88:PRO:O	2:B:90:ILE:HD12	2.20	0.42
1:C:195:PHE:HE1	1:E:2358:ILE:HG21	1.79	0.42
1:C:284:HIS:NE2	1:C:286:THR:OG1	2.29	0.42
1:C:317:ARG:NH1	1:C:349:GLN:OE1	2.52	0.42
1:C:669:ASP:OD1	1:C:790:ARG:HG3	2.19	0.42
1:C:682:LEU:HD22	1:C:787:VAL:HG11	1.86	0.42
1:C:1018:ASN:O	1:C:1021:LEU:HG	2.18	0.42
1:C:1102:VAL:HG12	1:C:1151:CYS:SG	2.60	0.42
1:C:1130:GLN:HB2	1:C:1137:GLU:O	2.19	0.42
1:C:1440:PHE:CD2	1:C:1560:ASN:HB3	2.54	0.42
1:C:1863:LEU:HD23	1:C:1863:LEU:HA	1.87	0.42
1:C:2237:CYS:O	1:C:2241:ARG:HG2	2.18	0.42
1:C:2761:TYR:CE2	1:C:2862:LEU:HD22	2.54	0.42
1:C:3916:ILE:CG2	1:C:3980:LEU:HD12	2.49	0.42
1:C:4039:MET:SD	1:C:4042:ARG:NH1	2.93	0.42
1:C:4866:SER:HB3	1:C:4873:ASP:OD2	2.19	0.42
2:D:76:ILE:O	2:D:96:THR:HG23	2.19	0.42
1:E:252:VAL:HA	1:E:255:HIS:ND1	2.34	0.42
1:E:341:TYR:CE1	1:E:392:ARG:HB3	2.54	0.42
1:E:359:TYR:HA	1:E:376:ALA:HA	2.02	0.42
1:E:638:ILE:HG23	1:E:678:GLN:HE22	1.84	0.42
1:E:1526:LEU:CG	1:E:1541:GLN:CB	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1689:VAL:O	1:E:1693:GLN:HB3	2.19	0.42
1:E:2301:TYR:HB3	1:E:2331:TYR:CE2	2.54	0.42
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.19	0.42
1:G:59:PRO:HG2	1:G:290:TYR:HE2	1.83	0.42
1:G:404:ILE:HG12	1:G:478:PHE:CD1	2.54	0.42
1:G:411:TYR:OH	1:G:445:LEU:HD12	2.19	0.42
1:G:793:LEU:HB2	1:G:1626:TRP:HZ3	1.84	0.42
1:G:858:THR:CG2	1:G:991:ASN:HD21	2.31	0.42
1:G:1078:GLU:HB3	1:G:1081:TYR:CD2	2.54	0.42
1:G:2380:ILE:O	1:G:2384:ILE:HG13	2.19	0.42
2:H:26:TYR:CE1	2:H:39:SER:HB3	2.53	0.42
1:A:220:LEU:CD1	1:A:390:LEU:HD22	2.49	0.42
1:A:317:ARG:NH1	1:A:349:GLN:OE1	2.52	0.42
1:A:541:SER:HA	1:A:574:VAL:HG22	2.01	0.42
1:A:1585:LYS:HE2	1:A:1596:GLU:OE1	2.17	0.42
1:A:1689:VAL:O	1:A:1693:GLN:HB3	2.19	0.42
1:A:1728:ARG:CG	1:A:1850:VAL:HG11	2.49	0.42
1:A:1730:MET:HE1	1:A:2159:LEU:HB2	2.01	0.42
1:A:2196:ASN:HA	1:A:2199:ARG:HG2	2.01	0.42
1:A:4688:ILE:CG2	1:A:4732:PHE:CZ	3.03	0.42
2:B:26:TYR:CE1	2:B:39:SER:HB3	2.53	0.42
2:B:76:ILE:O	2:B:96:THR:HG23	2.19	0.42
1:C:341:TYR:CE1	1:C:392:ARG:HB3	2.54	0.42
1:C:404:ILE:HG12	1:C:478:PHE:CD1	2.54	0.42
1:C:475:GLN:NE2	1:C:528:SER:O	2.52	0.42
1:C:526:LEU:O	1:C:530:ILE:HD12	2.20	0.42
1:C:804:PRO:C	1:C:806:PRO:N	2.73	0.42
1:C:1762:LEU:CD1	1:C:1863:LEU:HD12	2.50	0.42
1:C:4021:LYS:O	1:C:4025:VAL:HG23	2.19	0.42
1:C:4638:TYR:C	1:C:4641:PRO:HD2	2.39	0.42
1:C:4688:ILE:CG2	1:C:4732:PHE:CZ	3.03	0.42
1:C:4821:LYS:HA	1:C:4824:ARG:HE	1.83	0.42
1:E:1736:VAL:HA	1:E:1737:PRO:HD2	1.78	0.42
1:E:1835:GLU:HG3	1:E:1932:PRO:CB	2.49	0.42
1:E:3969:ILE:O	1:E:3971:GLY:O	2.37	0.42
1:G:341:TYR:CE1	1:G:392:ARG:HB3	2.54	0.42
1:G:595:ARG:CB	1:G:1662:PHE:CE1	2.85	0.42
1:G:1024:TYR:O	1:G:1027:LEU:HG	2.19	0.42
1:G:2341:VAL:HG22	1:G:2342:ASN:N	2.35	0.42
1:A:102:LEU:HD12	1:A:105:HIS:CE1	2.55	0.42
1:A:526:LEU:O	1:A:530:ILE:HD12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:LEU:HD12	1:A:602:VAL:HG13	2.02	0.42
1:A:2449:GLU:O	1:A:2452:ARG:HG2	2.19	0.42
1:A:3984:ARG:HD3	1:G:161:GLU:HG2	1.99	0.42
1:A:4234:PHE:CE1	1:A:4985:LEU:HD11	2.55	0.42
1:A:4574:ASN:O	1:A:4577:LEU:HB2	2.18	0.42
1:A:4898:GLY:HA3	1:A:4917:ASP:OD2	2.20	0.42
2:B:40:ARG:O	2:B:43:ASN:CA	2.68	0.42
1:C:415:ILE:HG23	1:C:493:ARG:HD2	2.01	0.42
1:C:1276:THR:HG22	1:C:1563:GLN:CG	2.50	0.42
1:C:1766:GLY:N	1:C:1856:ASP:OD2	2.53	0.42
1:C:3726:ALA:HB3	1:C:3796:SER:OG	2.19	0.42
1:C:4567:LEU:HD11	1:C:4816:ILE:HD12	2.01	0.42
1:C:4895:GLY:HA2	1:C:4921:PHE:CE1	2.50	0.42
1:C:4898:GLY:HA3	1:C:4917:ASP:OD2	2.20	0.42
1:E:103:TYR:CE2	1:E:163:VAL:HA	2.54	0.42
1:E:1766:GLY:N	1:E:1856:ASP:OD2	2.53	0.42
1:E:2812:SER:OG	1:E:2882:TYR:OH	2.35	0.42
1:E:4821:LYS:HA	1:E:4824:ARG:HE	1.83	0.42
1:G:215:THR:HG22	1:G:273:HIS:HD2	1.83	0.42
1:G:274:LEU:HD12	1:G:278:GLN:NE2	2.34	0.42
1:G:568:LEU:HD12	1:G:602:VAL:HG13	2.02	0.42
1:G:889:GLN:HB3	1:G:891:TRP:CD1	2.53	0.42
1:G:1100:MET:HE1	1:G:1194:LEU:HD23	2.01	0.42
1:G:2354:VAL:HB	1:G:2453:ILE:HD11	2.02	0.42
1:G:4638:TYR:C	1:G:4641:PRO:HD2	2.39	0.42
1:G:4866:SER:HB3	1:G:4873:ASP:OD2	2.19	0.42
1:G:4961:CYS:SG	1:G:4978:HIS:NE2	2.80	0.42
1:G:4999:ASP:HB2	1:G:5002:GLU:HG3	2.00	0.42
1:A:273:HIS:N	1:A:334:MET:O	2.51	0.42
1:A:274:LEU:HD12	1:A:278:GLN:NE2	2.34	0.42
1:A:831:ARG:HG3	1:A:840:VAL:HG11	2.01	0.42
1:A:1102:VAL:HG12	1:A:1151:CYS:SG	2.60	0.42
1:A:1130:GLN:HB2	1:A:1137:GLU:O	2.19	0.42
1:A:1237:TRP:CZ2	1:A:1655:GLU:HB2	2.55	0.42
1:A:4021:LYS:O	1:A:4025:VAL:HG23	2.19	0.42
1:A:4866:SER:HB3	1:A:4873:ASP:OD2	2.19	0.42
1:C:359:TYR:HA	1:C:376:ALA:HA	2.02	0.42
1:C:1075:PHE:HA	1:C:1237:TRP:O	2.18	0.42
1:C:1762:LEU:HD11	1:C:1863:LEU:HD12	2.00	0.42
1:C:2553:TYR:CD1	1:C:2556:LEU:HD12	2.55	0.42
1:C:3787:LYS:HG3	1:C:3788:GLY:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4813:LEU:O	1:C:4816:ILE:HG22	2.20	0.42
2:D:40:ARG:O	2:D:43:ASN:CA	2.68	0.42
2:D:82:TYR:CD2	2:D:87:HIS:HB2	2.55	0.42
1:E:1440:PHE:CD2	1:E:1560:ASN:HB3	2.54	0.42
1:E:3696:ASP:O	1:E:3700:GLN:N	2.49	0.42
1:E:4083:ASP:CG	1:E:4087:LEU:O	2.56	0.42
1:E:4220:ASP:O	1:E:4224:GLU:CG	2.66	0.42
1:G:1102:VAL:HG12	1:G:1151:CYS:SG	2.60	0.42
1:G:4039:MET:SD	1:G:4042:ARG:NH1	2.93	0.42
1:G:4986:ALA:O	1:G:4989:MET:HB3	2.20	0.42
1:A:487:VAL:O	1:A:491:ILE:HG13	2.19	0.42
1:A:602:VAL:O	1:A:605:SER:OG	2.25	0.42
1:A:743:VAL:O	1:A:760:ASN:N	2.39	0.42
1:A:793:LEU:HB2	1:A:1626:TRP:HZ3	1.84	0.42
1:A:1155:LEU:HD22	1:A:1184:ILE:HG12	2.01	0.42
1:A:1526:LEU:CG	1:A:1541:GLN:CB	2.98	0.42
1:A:1958:LEU:HD11	1:A:3657:TYR:CE2	2.54	0.42
1:A:2094:LEU:O	1:A:2097:LEU:HG	2.20	0.42
1:A:2326:CYS:O	1:A:2329:GLU:HG2	2.20	0.42
1:A:3787:LYS:HG3	1:A:3788:GLY:H	1.84	0.42
1:A:4107:GLU:O	1:A:4110:PHE:HB3	2.19	0.42
2:B:82:TYR:CD2	2:B:87:HIS:HB2	2.55	0.42
1:C:252:VAL:HA	1:C:255:HIS:ND1	2.34	0.42
1:C:411:TYR:OH	1:C:445:LEU:HD12	2.19	0.42
1:C:636:ASN:HA	1:C:1693:GLN:OE1	2.19	0.42
1:C:1112:ASP:OD1	1:C:1606:SER:OG	2.38	0.42
1:C:1123:VAL:O	1:C:1132:TRP:N	2.30	0.42
1:C:1674:CYS:O	1:C:1678:ASN:HB3	2.20	0.42
1:C:3916:ILE:O	1:C:3920:VAL:HG23	2.20	0.42
1:C:4227:GLU:HG2	1:C:4228:ALA:N	2.34	0.42
1:E:102:LEU:HD12	1:E:105:HIS:CE1	2.55	0.42
1:E:1102:VAL:HG12	1:E:1151:CYS:SG	2.60	0.42
1:E:1155:LEU:HD22	1:E:1184:ILE:HG12	2.01	0.42
1:E:1221:GLU:HB2	1:E:1223:PHE:CE2	2.54	0.42
1:E:1838:PHE:O	1:E:1839:VAL:C	2.57	0.42
1:E:3916:ILE:O	1:E:3920:VAL:HG23	2.20	0.42
1:E:4638:TYR:C	1:E:4641:PRO:HD2	2.39	0.42
1:G:1238:PHE:O	1:G:1609:PRO:HA	2.20	0.42
1:G:1526:LEU:CG	1:G:1541:GLN:CB	2.98	0.42
1:A:291:LEU:HA	1:A:301:VAL:HA	2.02	0.42
1:A:445:LEU:HB3	1:A:521:LEU:HG	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1154:ASP:O	1:A:1158:ASN:HA	2.19	0.42
1:A:1674:CYS:O	1:A:1678:ASN:HB3	2.20	0.42
1:A:1684:ALA:HB1	2:B:89:GLY:O	2.20	0.42
1:A:1726:SER:O	1:A:1730:MET:HG2	2.20	0.42
1:A:1762:LEU:CD1	1:A:1863:LEU:HD12	2.50	0.42
1:A:2553:TYR:CD1	1:A:2556:LEU:HD12	2.55	0.42
1:A:4567:LEU:HD11	1:A:4816:ILE:HD12	2.01	0.42
1:A:4999:ASP:HB2	1:A:5002:GLU:HG3	2.00	0.42
1:C:595:ARG:CB	1:C:1662:PHE:CE1	2.85	0.42
1:C:669:ASP:H	1:C:789:VAL:HA	1.85	0.42
1:C:926:GLY:O	1:C:930:LYS:HG3	2.19	0.42
1:C:1131:ARG:CG	1:C:1139:PHE:HB2	2.48	0.42
1:C:1763:PRO:CG	1:C:1863:LEU:HD11	2.43	0.42
1:C:1839:VAL:HB	1:C:1840:PRO:HD3	2.01	0.42
1:C:1958:LEU:HD11	1:C:3657:TYR:CE2	2.54	0.42
1:E:781:VAL:HG11	1:E:789:VAL:HG21	2.01	0.42
1:E:3955:MET:O	1:E:4019:LEU:HD12	2.20	0.42
1:E:4234:PHE:CE1	1:E:4985:LEU:HD11	2.55	0.42
1:E:4687:TYR:HE2	1:E:4703:ARG:CA	2.33	0.42
1:E:4688:ILE:CG2	1:E:4732:PHE:CZ	3.03	0.42
1:E:4813:LEU:O	1:E:4816:ILE:HG22	2.20	0.42
1:E:4971:THR:HG23	1:E:4974:GLY:HA3	2.02	0.42
1:G:1276:THR:HG22	1:G:1563:GLN:CG	2.50	0.42
1:G:1685:LEU:HD23	1:G:1685:LEU:HA	1.88	0.42
1:G:1699:GLU:OE2	1:G:1810:LYS:NZ	2.52	0.42
1:G:1863:LEU:HD23	1:G:1863:LEU:HA	1.87	0.42
1:G:2094:LEU:O	1:G:2097:LEU:HG	2.20	0.42
1:G:3999:MET:O	1:G:4003:LEU:HB2	2.20	0.42
1:G:4661:TYR:CE1	1:G:4665:LYS:HB2	2.55	0.42
1:A:195:PHE:HE1	1:C:2358:ILE:HG21	1.79	0.41
1:A:309:THR:O	1:A:313:SER:OG	2.23	0.41
1:A:551:LEU:HA	1:A:560:ILE:HG21	2.01	0.41
1:A:909:ASN:O	1:A:912:SER:OG	2.22	0.41
1:A:2930:LEU:HB3	1:A:2937:VAL:HG21	2.02	0.41
1:C:222:LEU:HD22	1:C:231:LEU:HD23	2.01	0.41
1:C:291:LEU:HA	1:C:301:VAL:HA	2.02	0.41
1:C:1943:LEU:HD11	1:C:2098:VAL:HG22	2.02	0.41
1:C:2196:ASN:HA	1:C:2199:ARG:HG2	2.01	0.41
1:C:2354:VAL:HB	1:C:2453:ILE:HD11	2.02	0.41
1:C:3696:ASP:O	1:C:3700:GLN:N	2.49	0.41
1:C:3962:PHE:HD1	1:C:4026:MET:SD	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4908:GLU:HG2	1:C:4912:TYR:CE2	2.54	0.41
1:E:472:ARG:HH11	1:E:532:GLY:HA2	1.85	0.41
1:E:1024:TYR:O	1:E:1027:LEU:HG	2.19	0.41
1:E:1726:SER:O	1:E:1730:MET:HG2	2.20	0.41
1:E:1943:LEU:HD11	1:E:2098:VAL:HG22	2.02	0.41
1:E:2104:ARG:O	1:E:2108:GLU:HG2	2.20	0.41
1:E:2556:LEU:HD23	1:E:2559:LEU:HD12	2.02	0.41
1:E:3999:MET:O	1:E:4003:LEU:HB2	2.20	0.41
1:E:4039:MET:SD	1:E:4042:ARG:NH1	2.93	0.41
1:E:4147:LEU:HD23	1:E:4147:LEU:HA	1.77	0.41
2:F:88:PRO:O	2:F:90:ILE:HD12	2.20	0.41
1:G:831:ARG:HG3	1:G:840:VAL:HG11	2.01	0.41
1:G:898:ASP:OD1	1:G:899:ASP:N	2.53	0.41
1:G:1766:GLY:N	1:G:1856:ASP:OD2	2.53	0.41
1:G:1839:VAL:HB	1:G:1840:PRO:HD3	2.01	0.41
1:G:4234:PHE:CE1	1:G:4985:LEU:HD11	2.55	0.41
1:G:4813:LEU:O	1:G:4816:ILE:HG22	2.20	0.41
1:A:649:PHE:HB3	1:A:776:LEU:HB3	2.03	0.41
1:A:1931:LEU:HA	1:A:1932:PRO:HD2	1.88	0.41
1:A:3657:TYR:CE2	1:A:3662:ILE:HD11	2.56	0.41
1:A:4191:GLU:OE1	1:A:5006:GLN:NE2	2.40	0.41
1:C:210:GLU:HB2	1:C:213:TYR:HD2	1.85	0.41
1:C:541:SER:HA	1:C:574:VAL:HG22	2.01	0.41
1:C:1078:GLU:HA	1:C:1237:TRP:CZ2	2.55	0.41
1:C:2104:ARG:O	1:C:2108:GLU:HG2	2.20	0.41
1:C:2553:TYR:HD1	1:C:2556:LEU:HD12	1.85	0.41
1:C:2556:LEU:HD23	1:C:2559:LEU:HD12	2.02	0.41
1:C:4234:PHE:CE1	1:C:4985:LEU:HD11	2.55	0.41
1:C:4661:TYR:CE1	1:C:4665:LYS:HB2	2.55	0.41
1:C:4698:LYS:O	1:C:4701:TRP:HB3	2.20	0.41
2:D:88:PRO:O	2:D:90:ILE:HD12	2.20	0.41
1:E:411:TYR:OH	1:E:445:LEU:HD12	2.19	0.41
1:E:487:VAL:O	1:E:491:ILE:HG13	2.19	0.41
1:E:526:LEU:O	1:E:530:ILE:HD12	2.20	0.41
1:E:571:SER:HA	1:E:572:PRO:HD2	1.92	0.41
1:E:1238:PHE:O	1:E:1609:PRO:HA	2.20	0.41
1:E:1276:THR:HG22	1:E:1563:GLN:CG	2.50	0.41
1:E:1674:CYS:O	1:E:1678:ASN:HB3	2.20	0.41
1:E:1743:ARG:HG3	1:E:1963:GLU:CG	2.43	0.41
1:E:3826:VAL:HG22	1:E:3909:ASN:HB3	2.02	0.41
1:E:4661:TYR:CE1	1:E:4665:LYS:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4986:ALA:O	1:E:4989:MET:HB3	2.20	0.41
1:G:551:LEU:HA	1:G:560:ILE:HG21	2.01	0.41
1:G:1079:LYS:O	1:G:1082:THR:HG23	2.20	0.41
1:G:1674:CYS:O	1:G:1678:ASN:HB3	2.20	0.41
1:G:1943:LEU:HD11	1:G:2098:VAL:HG22	2.02	0.41
1:G:2761:TYR:CE2	1:G:2862:LEU:HD22	2.54	0.41
1:G:3826:VAL:HG22	1:G:3909:ASN:HB3	2.02	0.41
1:G:4690:GLU:OE2	1:G:4690:GLU:HA	2.20	0.41
1:A:415:ILE:HG23	1:A:493:ARG:HD2	2.01	0.41
1:A:737:LEU:HB3	1:A:738:LEU:H	1.55	0.41
1:A:805:PRO:O	1:A:807:GLY:N	2.53	0.41
1:A:2058:SER:O	1:A:2061:SER:OG	2.16	0.41
1:A:2358:ILE:HG21	1:G:195:PHE:HE1	1.79	0.41
1:A:4159:ARG:HG3	1:A:4160:LEU:H	1.83	0.41
1:A:4220:ASP:O	1:A:4224:GLU:CG	2.66	0.41
1:A:4805:ASN:OD1	1:A:4806:ASN:N	2.54	0.41
1:A:4986:ALA:O	1:A:4989:MET:HB3	2.20	0.41
1:C:102:LEU:HD12	1:C:105:HIS:CE1	2.55	0.41
1:C:680:THR:HG21	1:C:787:VAL:HG23	2.03	0.41
1:C:781:VAL:HG11	1:C:789:VAL:HG21	2.01	0.41
1:C:835:ARG:NH2	1:C:1211:LEU:HD13	2.24	0.41
1:C:1238:PHE:O	1:C:1609:PRO:HA	2.20	0.41
1:C:2498:HIS:O	1:C:2501:SER:OG	2.22	0.41
1:C:4986:ALA:O	1:C:4989:MET:HB3	2.20	0.41
2:D:15:PHE:HE1	2:D:67:SER:HB3	1.86	0.41
1:E:176:SER:O	1:E:178:ARG:HG3	2.21	0.41
1:E:1079:LYS:O	1:E:1082:THR:HG23	2.20	0.41
1:E:1291:LEU:HD23	1:E:1293:LEU:N	2.29	0.41
1:E:1297:PHE:CB	1:E:1545:ASN:HA	2.42	0.41
1:E:2341:VAL:HG22	1:E:2342:ASN:N	2.35	0.41
1:G:252:VAL:HG23	1:G:257:ARG:NE	2.34	0.41
1:G:445:LEU:HB3	1:G:521:LEU:HG	2.02	0.41
1:G:1221:GLU:HB2	1:G:1223:PHE:CE2	2.54	0.41
1:G:2143:THR:N	1:G:3651:ASN:OD1	2.38	0.41
1:G:2553:TYR:CD1	1:G:2556:LEU:HD12	2.55	0.41
1:G:3841:VAL:HG12	1:G:3843:ASP:N	2.31	0.41
1:G:3891:LEU:HB3	1:G:3899:PHE:HE2	1.83	0.41
1:G:4003:LEU:HA	1:G:4009:GLN:HG2	2.03	0.41
1:G:4908:GLU:HG2	1:G:4912:TYR:CE2	2.54	0.41
1:A:876:GLU:O	1:A:880:GLU:HG3	2.20	0.41
1:A:1238:PHE:O	1:A:1609:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1287:LEU:HD13	1:A:1556:PRO:HD3	2.03	0.41
1:A:1455:PRO:HA	1:A:1549:PHE:CE2	2.55	0.41
1:A:3999:MET:O	1:A:4003:LEU:HB2	2.20	0.41
1:A:4003:LEU:HA	1:A:4009:GLN:HG2	2.03	0.41
1:C:445:LEU:HB3	1:C:521:LEU:HG	2.02	0.41
1:C:649:PHE:HB3	1:C:776:LEU:HB3	2.03	0.41
1:C:824:GLU:HA	1:C:825:PRO:HD3	1.83	0.41
1:C:1564:PHE:HE2	1:C:1601:MET:CE	2.32	0.41
1:C:1808:ARG:HB2	1:C:1854:PHE:CD1	2.52	0.41
1:C:2094:LEU:O	1:C:2097:LEU:HG	2.20	0.41
1:C:2326:CYS:O	1:C:2329:GLU:HG2	2.20	0.41
1:C:2930:LEU:HB3	1:C:2937:VAL:HG21	2.02	0.41
1:C:3826:VAL:HG22	1:C:3909:ASN:HB3	2.02	0.41
1:C:3844:LEU:HD11	1:C:3936:TYR:CB	2.49	0.41
1:E:274:LEU:HD21	1:E:316:PHE:CD2	2.56	0.41
1:E:580:GLU:HG2	1:E:620:LEU:CD1	2.49	0.41
1:E:831:ARG:HG3	1:E:840:VAL:HG11	2.01	0.41
1:E:1615:VAL:HG12	1:E:1634:LEU:CD1	2.50	0.41
1:E:1734:TYR:OH	1:E:1948:ASP:OD1	2.39	0.41
1:E:1830:VAL:HB	1:E:1837:GLN:HG3	2.02	0.41
1:E:4003:LEU:HA	1:E:4009:GLN:HG2	2.03	0.41
1:E:4698:LYS:O	1:E:4701:TRP:HB3	2.20	0.41
2:F:82:TYR:CD2	2:F:87:HIS:HB2	2.55	0.41
1:G:680:THR:HG21	1:G:787:VAL:HG23	2.03	0.41
1:G:720:HIS:HB2	1:G:728:ARG:O	2.21	0.41
1:G:2930:LEU:HB3	1:G:2937:VAL:HG21	2.02	0.41
1:G:3970:GLN:HE22	1:G:4029:SER:HB3	1.83	0.41
2:H:15:PHE:HE1	2:H:67:SER:HB3	1.86	0.41
1:A:176:SER:O	1:A:178:ARG:HG3	2.21	0.41
1:A:274:LEU:HD21	1:A:316:PHE:CD2	2.56	0.41
1:A:781:VAL:HG11	1:A:789:VAL:HG21	2.01	0.41
1:A:898:ASP:OD1	1:A:899:ASP:N	2.53	0.41
1:A:1478:ASP:C	1:A:1480:GLN:H	2.11	0.41
1:A:1766:GLY:N	1:A:1856:ASP:OD2	2.53	0.41
1:A:1943:LEU:HD11	1:A:2098:VAL:HG22	2.02	0.41
1:A:2354:VAL:HB	1:A:2453:ILE:HD11	2.02	0.41
1:A:3669:PHE:CE1	1:A:3670:GLU:CG	3.04	0.41
1:A:4661:TYR:CE1	1:A:4665:LYS:HB2	2.55	0.41
1:A:4698:LYS:O	1:A:4701:TRP:HB3	2.20	0.41
1:C:793:LEU:HB2	1:C:1626:TRP:HZ3	1.84	0.41
1:C:805:PRO:O	1:C:807:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1455:PRO:HA	1:C:1549:PHE:CE2	2.55	0.41
1:C:1684:ALA:HB1	2:D:89:GLY:O	2.20	0.41
1:E:898:ASP:OD1	1:E:899:ASP:N	2.53	0.41
1:E:1684:ALA:HB1	2:F:89:GLY:O	2.20	0.41
1:E:4693:GLY:O	1:E:4695:ASP:CA	2.58	0.41
1:E:4805:ASN:OD1	1:E:4806:ASN:N	2.54	0.41
2:F:16:PRO:HD2	2:F:64:ALA:O	2.19	0.41
2:F:40:ARG:O	2:F:43:ASN:CA	2.68	0.41
1:G:210:GLU:HB2	1:G:213:TYR:HD2	1.85	0.41
1:G:669:ASP:H	1:G:789:VAL:HA	1.85	0.41
1:G:1078:GLU:HA	1:G:1237:TRP:CZ2	2.55	0.41
1:G:3787:LYS:HG3	1:G:3788:GLY:H	1.84	0.41
1:G:3955:MET:O	1:G:4019:LEU:HD12	2.20	0.41
1:G:3995:VAL:O	1:G:3999:MET:HB2	2.21	0.41
1:G:4687:TYR:HE2	1:G:4703:ARG:CA	2.33	0.41
1:G:4897:ILE:HG23	1:G:4898:GLY:N	2.34	0.41
1:A:472:ARG:HH11	1:A:532:GLY:HA2	1.85	0.41
1:A:680:THR:HG21	1:A:787:VAL:HG23	2.03	0.41
1:A:804:PRO:C	1:A:806:PRO:N	2.73	0.41
1:A:2104:ARG:O	1:A:2108:GLU:HG2	2.20	0.41
1:C:176:SER:O	1:C:178:ARG:HG3	2.21	0.41
1:C:309:THR:O	1:C:313:SER:OG	2.23	0.41
1:C:534:ARG:HG2	1:C:570:GLU:O	2.21	0.41
1:C:1728:ARG:CG	1:C:1850:VAL:HG11	2.49	0.41
1:C:3657:TYR:CE2	1:C:3662:ILE:HD11	2.56	0.41
1:C:3999:MET:O	1:C:4003:LEU:HB2	2.20	0.41
1:C:4003:LEU:HA	1:C:4009:GLN:HG2	2.03	0.41
1:C:4581:LYS:HG2	1:C:4632:LEU:HD22	2.03	0.41
1:E:649:PHE:HB3	1:E:776:LEU:HB3	2.03	0.41
1:E:793:LEU:HB2	1:E:1626:TRP:HZ3	1.84	0.41
1:E:1287:LEU:HD13	1:E:1556:PRO:HD3	2.03	0.41
1:E:1839:VAL:HB	1:E:1840:PRO:HD3	2.01	0.41
1:E:2354:VAL:HB	1:E:2453:ILE:HD11	2.02	0.41
1:E:2553:TYR:CD1	1:E:2556:LEU:HD12	2.55	0.41
1:E:2819:TRP:HH2	1:E:2881:ASN:HB2	1.86	0.41
1:E:4581:LYS:HG2	1:E:4632:LEU:HD22	2.03	0.41
1:E:4862:PHE:CD2	1:E:4913:ARG:HD2	2.56	0.41
1:G:534:ARG:HG2	1:G:570:GLU:O	2.21	0.41
1:G:1246:GLU:C	1:G:1602:PRO:HB3	2.41	0.41
1:G:1728:ARG:CG	1:G:1850:VAL:HG11	2.49	0.41
1:G:1769:THR:OG1	1:G:1770:SER:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1850:VAL:HG22	1:G:1945:TYR:CD1	2.56	0.41
1:G:2799:GLU:HA	1:G:2802:LYS:HD2	2.03	0.41
1:G:3916:ILE:CG2	1:G:3980:LEU:HD12	2.49	0.41
1:G:4898:GLY:HA3	1:G:4917:ASP:OD2	2.20	0.41
1:G:4971:THR:HG23	1:G:4974:GLY:HA3	2.02	0.41
1:A:156:GLN:NE2	1:C:225:GLY:C	2.74	0.41
1:A:534:ARG:HG2	1:A:570:GLU:O	2.21	0.41
1:A:564:LEU:O	1:A:568:LEU:HG	2.21	0.41
1:A:1734:TYR:OH	1:A:1948:ASP:OD1	2.39	0.41
1:A:2761:TYR:CE2	1:A:2862:LEU:HD22	2.54	0.41
1:A:3840:SER:HB2	1:A:3881:THR:HG21	2.03	0.41
1:A:4690:GLU:OE2	1:A:4690:GLU:HA	2.20	0.41
1:A:4895:GLY:HA2	1:A:4921:PHE:CE1	2.50	0.41
1:C:156:GLN:NE2	1:E:225:GLY:C	2.74	0.41
1:C:548:VAL:HG11	1:C:582:HIS:HA	2.02	0.41
1:C:1433:TYR:CE1	1:C:1583:GLU:HB2	2.56	0.41
1:C:1772:ARG:HA	1:C:1773:PRO:HD3	1.94	0.41
1:C:1780:PRO:HD3	1:C:1801:ALA:HB3	2.03	0.41
1:C:2431:ASP:O	1:C:2435:ARG:HB2	2.21	0.41
1:C:3669:PHE:CE1	1:C:3670:GLU:CG	3.04	0.41
1:E:283:ARG:HA	1:E:290:TYR:HD1	1.86	0.41
1:E:568:LEU:HD12	1:E:602:VAL:HG13	2.02	0.41
1:E:1078:GLU:HA	1:E:1237:TRP:CZ2	2.55	0.41
1:E:1246:GLU:C	1:E:1602:PRO:HB3	2.41	0.41
1:E:2326:CYS:O	1:E:2329:GLU:HG2	2.20	0.41
1:E:3669:PHE:CE1	1:E:3670:GLU:CG	3.04	0.41
1:E:4837:LEU:HD11	1:E:4932:ILE:HG23	2.03	0.41
1:G:102:LEU:HD12	1:G:105:HIS:CE1	2.55	0.41
1:G:176:SER:O	1:G:178:ARG:HG3	2.21	0.41
1:G:526:LEU:O	1:G:530:ILE:HD12	2.20	0.41
1:G:1131:ARG:CD	1:G:1139:PHE:CG	3.04	0.41
1:G:1237:TRP:CZ2	1:G:1655:GLU:HB2	2.55	0.41
1:G:1287:LEU:HD13	1:G:1556:PRO:HD3	2.03	0.41
1:G:1772:ARG:HA	1:G:1773:PRO:HD3	1.94	0.41
1:G:1842:LEU:HD21	1:G:1926:LEU:HD21	2.03	0.41
1:G:2104:ARG:O	1:G:2108:GLU:HG2	2.20	0.41
2:H:82:TYR:CD2	2:H:87:HIS:HB2	2.55	0.41
2:H:84:ALA:O	2:H:93:PRO:HB3	2.21	0.41
1:A:266:ARG:NH2	1:A:272:SER:OG	2.53	0.41
1:A:287:THR:HB	1:A:289:ARG:HH11	1.85	0.41
1:A:515:TRP:CH2	1:A:555:GLU:CG	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:VAL:HG11	1:A:582:HIS:HA	2.02	0.41
1:A:1022:VAL:O	1:A:1023:PRO:C	2.59	0.41
1:A:1079:LYS:O	1:A:1082:THR:HG23	2.20	0.41
1:A:1943:LEU:HD22	1:A:2123:LEU:HD13	2.03	0.41
1:A:3962:PHE:HD1	1:A:4026:MET:SD	2.43	0.41
1:A:3970:GLN:HE22	1:A:4029:SER:HB3	1.83	0.41
1:A:4862:PHE:CD2	1:A:4913:ARG:HD2	2.56	0.41
1:A:4971:THR:HG23	1:A:4974:GLY:HA3	2.02	0.41
1:A:5009:TYR:O	1:A:5013:MET:HG2	2.21	0.41
1:C:551:LEU:HA	1:C:560:ILE:HG21	2.01	0.41
1:C:876:GLU:O	1:C:880:GLU:HG3	2.20	0.41
1:C:1022:VAL:O	1:C:1023:PRO:C	2.59	0.41
1:C:1079:LYS:O	1:C:1082:THR:HG23	2.20	0.41
1:C:1131:ARG:CD	1:C:1139:PHE:CG	3.04	0.41
1:C:4805:ASN:OD1	1:C:4806:ASN:N	2.54	0.41
1:E:159:GLU:O	1:G:3928:GLU:OE2	2.39	0.41
1:E:252:VAL:HG23	1:E:257:ARG:NE	2.34	0.41
1:E:680:THR:HG21	1:E:787:VAL:HG23	2.03	0.41
1:E:1455:PRO:HA	1:E:1549:PHE:CE2	2.55	0.41
1:E:2431:ASP:O	1:E:2435:ARG:HB2	2.21	0.41
1:E:2761:TYR:CE2	1:E:2862:LEU:HD22	2.54	0.41
1:E:3844:LEU:HD11	1:E:3936:TYR:CB	2.49	0.41
1:E:4690:GLU:OE2	1:E:4690:GLU:HA	2.20	0.41
1:G:1455:PRO:HA	1:G:1549:PHE:CE2	2.55	0.41
1:G:3669:PHE:CD1	1:G:3669:PHE:C	2.87	0.41
1:G:3669:PHE:CE1	1:G:3670:GLU:CG	3.04	0.41
1:G:3916:ILE:O	1:G:3920:VAL:HG23	2.20	0.41
1:G:3962:PHE:HD1	1:G:4026:MET:SD	2.43	0.41
1:G:4698:LYS:O	1:G:4701:TRP:HB3	2.20	0.41
1:G:5009:TYR:O	1:G:5013:MET:HG2	2.21	0.41
1:A:14:LEU:HB2	1:A:101:LEU:HD12	2.03	0.41
1:A:161:GLU:CG	1:C:3984:ARG:CD	2.94	0.41
1:A:210:GLU:HB2	1:A:213:TYR:HD2	1.85	0.41
1:A:222:LEU:HD22	1:A:231:LEU:HD23	2.01	0.41
1:A:580:GLU:HA	1:A:620:LEU:HD11	2.03	0.41
1:A:669:ASP:H	1:A:789:VAL:HA	1.85	0.41
1:A:758:ARG:NH1	1:A:804:PRO:CB	2.77	0.41
1:A:1078:GLU:HA	1:A:1237:TRP:CZ2	2.55	0.41
1:A:1112:ASP:OD1	1:A:1606:SER:OG	2.38	0.41
1:A:1216:ILE:O	1:A:1220:GLN:NE2	2.54	0.41
1:A:1646:ARG:HH21	1:A:1656:ARG:HH22	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1716:ILE:O	1:A:1721:GLU:N	2.49	0.41
1:A:1780:PRO:HD3	1:A:1801:ALA:HB3	2.03	0.41
1:A:1803:PRO:HB2	1:A:1806:ALA:HB3	2.03	0.41
1:A:1842:LEU:HD21	1:A:1926:LEU:HD21	2.03	0.41
1:A:1856:ASP:O	1:A:1859:VAL:N	2.54	0.41
1:A:2799:GLU:HA	1:A:2802:LYS:HD2	2.03	0.41
1:A:3826:VAL:HG22	1:A:3909:ASN:HB3	2.02	0.41
1:A:3955:MET:O	1:A:4019:LEU:HD12	2.20	0.41
1:A:3995:VAL:O	1:A:3999:MET:HB2	2.21	0.41
1:A:4897:ILE:HG23	1:A:4898:GLY:N	2.34	0.41
2:B:15:PHE:HE1	2:B:67:SER:HB3	1.86	0.41
2:B:92:PRO:HA	2:B:93:PRO:HD3	1.92	0.41
1:C:159:GLU:O	1:E:3928:GLU:OE2	2.39	0.41
1:C:220:LEU:CD1	1:C:390:LEU:HD22	2.49	0.41
1:C:273:HIS:N	1:C:334:MET:O	2.51	0.41
1:C:287:THR:HB	1:C:289:ARG:HH11	1.85	0.41
1:C:568:LEU:HD12	1:C:602:VAL:HG13	2.02	0.41
1:C:580:GLU:HA	1:C:620:LEU:HD11	2.03	0.41
1:C:898:ASP:OD1	1:C:899:ASP:N	2.53	0.41
1:C:1131:ARG:HD3	1:C:1139:PHE:CG	2.56	0.41
1:C:1216:ILE:O	1:C:1220:GLN:NE2	2.54	0.41
1:C:1646:ARG:HH21	1:C:1656:ARG:HH22	1.69	0.41
1:C:1726:SER:O	1:C:1730:MET:HG2	2.20	0.41
1:C:2341:VAL:HG22	1:C:2342:ASN:N	2.35	0.41
1:C:4002:LYS:HE2	1:C:4002:LYS:HB3	1.92	0.41
1:E:156:GLN:NE2	1:G:225:GLY:C	2.74	0.41
1:E:210:GLU:HB2	1:E:213:TYR:HD2	1.85	0.41
1:E:445:LEU:HB3	1:E:521:LEU:HG	2.02	0.41
1:E:662:TRP:CZ3	1:E:814:ALA:HB2	2.56	0.41
1:E:682:LEU:HD12	1:E:682:LEU:HA	1.80	0.41
1:E:720:HIS:HB2	1:E:728:ARG:O	2.21	0.41
1:E:805:PRO:O	1:E:807:GLY:N	2.53	0.41
1:E:941:MET:HA	1:E:1051:TYR:HD1	1.86	0.41
1:E:1022:VAL:O	1:E:1023:PRO:C	2.59	0.41
1:E:1131:ARG:CD	1:E:1139:PHE:CG	3.04	0.41
1:E:1433:TYR:CE1	1:E:1583:GLU:HB2	2.56	0.41
1:E:1646:ARG:HH21	1:E:1656:ARG:HH22	1.69	0.41
1:E:1685:LEU:O	1:E:1689:VAL:HG12	2.21	0.41
1:E:1762:LEU:CD1	1:E:1863:LEU:HD12	2.50	0.41
1:E:1856:ASP:O	1:E:1859:VAL:N	2.54	0.41
1:E:1961:PHE:CG	1:E:2066:LEU:HG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2144:ILE:HG21	1:E:2152:THR:HG21	2.03	0.41
1:E:2553:TYR:HD1	1:E:2556:LEU:HD12	1.85	0.41
1:E:2822:THR:OG1	1:E:2938:THR:OG1	2.24	0.41
1:E:3995:VAL:O	1:E:3999:MET:HB2	2.21	0.41
1:E:4227:GLU:HG2	1:E:4228:ALA:N	2.34	0.41
1:E:4716:TRP:O	1:E:4716:TRP:HE3	2.04	0.41
2:F:15:PHE:HE1	2:F:67:SER:HB3	1.86	0.41
1:G:14:LEU:HB2	1:G:101:LEU:HD12	2.03	0.41
1:G:266:ARG:NH2	1:G:272:SER:OG	2.53	0.41
1:G:291:LEU:HA	1:G:301:VAL:HA	2.02	0.41
1:G:541:SER:HA	1:G:574:VAL:HG22	2.01	0.41
1:G:571:SER:HA	1:G:572:PRO:HD2	1.92	0.41
1:G:600:LEU:CD2	1:G:1666:THR:CA	2.96	0.41
1:G:622:THR:HG22	1:G:626:LEU:HD12	2.02	0.41
1:G:662:TRP:CZ3	1:G:814:ALA:HB2	2.56	0.41
1:G:711:LEU:HD23	1:G:711:LEU:HA	1.84	0.41
1:G:941:MET:HA	1:G:1051:TYR:HD1	1.86	0.41
1:G:1646:ARG:HH21	1:G:1656:ARG:HH22	1.69	0.41
1:G:1803:PRO:HB2	1:G:1806:ALA:HB3	2.03	0.41
1:G:1856:ASP:O	1:G:1859:VAL:N	2.54	0.41
1:G:2198:MET:HE1	1:G:2203:MET:HE1	1.98	0.41
1:G:3840:SER:HB2	1:G:3881:THR:HG21	2.03	0.41
1:G:4093:PHE:CG	1:G:4112:LEU:HD21	2.56	0.41
1:G:4716:TRP:O	1:G:4716:TRP:HE3	2.04	0.41
1:G:4805:ASN:OD1	1:G:4806:ASN:N	2.54	0.41
2:H:11:ASP:OD1	2:H:67:SER:HB2	2.21	0.41
2:H:40:ARG:O	2:H:43:ASN:CA	2.68	0.41
1:A:161:GLU:HG2	1:C:3984:ARG:HD3	1.99	0.41
1:A:2431:ASP:O	1:A:2435:ARG:HB2	2.21	0.41
1:A:2819:TRP:HH2	1:A:2881:ASN:HB2	1.86	0.41
1:A:3916:ILE:O	1:A:3920:VAL:HG23	2.20	0.41
1:A:4020:GLN:O	1:A:4024:VAL:HG22	2.21	0.41
1:C:14:LEU:HB2	1:C:101:LEU:HD12	2.03	0.41
1:C:1287:LEU:HD13	1:C:1556:PRO:HD3	2.03	0.41
1:C:1453:VAL:HG12	1:C:1454:THR:O	2.21	0.41
1:C:1685:LEU:O	1:C:1689:VAL:HG12	2.21	0.41
1:C:1730:MET:HE1	1:C:2159:LEU:HB2	2.02	0.41
1:C:1856:ASP:O	1:C:1859:VAL:N	2.54	0.41
1:C:1961:PHE:CG	1:C:2066:LEU:HG	2.56	0.41
1:C:2340:PHE:HB2	1:C:2435:ARG:CD	2.51	0.41
1:C:3966:THR:HG22	1:C:4026:MET:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3995:VAL:O	1:C:3999:MET:HB2	2.21	0.41
1:C:4020:GLN:O	1:C:4024:VAL:HG22	2.21	0.41
1:C:4971:THR:HG23	1:C:4974:GLY:HA3	2.02	0.41
1:E:876:GLU:O	1:E:880:GLU:HG3	2.20	0.41
1:E:1216:ILE:O	1:E:1220:GLN:NE2	2.54	0.41
1:E:1237:TRP:CZ2	1:E:1655:GLU:HB2	2.55	0.41
1:E:1803:PRO:HB2	1:E:1806:ALA:HB3	2.03	0.41
1:E:2793:PRO:HG3	1:E:2855:TYR:HB2	2.03	0.41
1:E:3657:TYR:CE2	1:E:3662:ILE:HD11	2.56	0.41
1:G:548:VAL:HG11	1:G:582:HIS:HA	2.02	0.41
1:G:649:PHE:HB3	1:G:776:LEU:HB3	2.03	0.41
1:G:753:PRO:HG2	1:G:770:ALA:H	1.86	0.41
1:G:805:PRO:O	1:G:807:GLY:N	2.53	0.41
1:G:876:GLU:O	1:G:880:GLU:HG3	2.20	0.41
1:G:1637:MET:SD	1:G:1696:HIS:HD2	2.44	0.41
1:G:2553:TYR:HD1	1:G:2556:LEU:HD12	1.85	0.41
1:G:2793:PRO:HG3	1:G:2855:TYR:HB2	2.03	0.41
1:G:3968:TYR:HB3	1:G:3976:ASN:HD21	1.87	0.41
1:G:4687:TYR:CD2	1:G:4706:LEU:HD23	2.56	0.41
1:G:4842:GLY:O	1:G:4846:VAL:HG23	2.21	0.41
1:A:225:GLY:C	1:G:156:GLN:NE2	2.74	0.40
1:A:334:MET:H	1:A:334:MET:HG3	1.60	0.40
1:A:748:LEU:HD13	1:A:755:ILE:CG1	2.52	0.40
1:A:1453:VAL:HG12	1:A:1454:THR:O	2.21	0.40
1:A:1685:LEU:O	1:A:1689:VAL:HG12	2.21	0.40
1:A:4842:GLY:O	1:A:4846:VAL:HG23	2.21	0.40
1:C:82:LEU:HD13	1:C:144:GLU:HG2	2.03	0.40
1:C:274:LEU:HD21	1:C:316:PHE:CD2	2.56	0.40
1:C:941:MET:HA	1:C:1051:TYR:HD1	1.86	0.40
1:C:1100:MET:HB3	1:C:1100:MET:HE2	1.92	0.40
1:C:1237:TRP:CZ2	1:C:1655:GLU:HB2	2.55	0.40
1:C:1940:CYS:SG	1:C:2123:LEU:HD12	2.62	0.40
1:C:4093:PHE:CG	1:C:4112:LEU:HD21	2.56	0.40
1:C:4862:PHE:HB3	1:C:4901:ILE:CG1	2.46	0.40
1:C:5009:TYR:O	1:C:5013:MET:HG2	2.21	0.40
1:E:291:LEU:HA	1:E:301:VAL:HA	2.02	0.40
1:E:548:VAL:HG11	1:E:582:HIS:HA	2.02	0.40
1:E:1698:LEU:HA	1:E:1712:TYR:CE1	2.56	0.40
1:E:1850:VAL:HG22	1:E:1945:TYR:CD1	2.56	0.40
1:E:2094:LEU:O	1:E:2097:LEU:HG	2.20	0.40
1:E:2930:LEU:HB3	1:E:2937:VAL:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3828:PHE:O	1:E:3831:SER:HB3	2.22	0.40
1:E:3840:SER:HB2	1:E:3881:THR:HG21	2.03	0.40
1:E:3968:TYR:HB3	1:E:3976:ASN:HD21	1.87	0.40
1:E:4191:GLU:OE1	1:E:5006:GLN:NE2	2.40	0.40
1:E:4842:GLY:O	1:E:4846:VAL:HG23	2.21	0.40
1:G:274:LEU:HD21	1:G:316:PHE:CD2	2.56	0.40
1:G:721:LEU:HD21	1:G:1474:VAL:HG11	2.03	0.40
1:G:1078:GLU:HG3	1:G:1237:TRP:HZ2	1.86	0.40
1:G:1131:ARG:HD3	1:G:1139:PHE:CG	2.56	0.40
1:G:1685:LEU:O	1:G:1689:VAL:HG12	2.21	0.40
1:G:3828:PHE:O	1:G:3831:SER:HB3	2.22	0.40
1:A:159:GLU:HG2	1:A:160:GLY:N	2.37	0.40
1:A:454:PRO:HA	1:A:455:PRO:HD3	1.95	0.40
1:A:720:HIS:HB2	1:A:728:ARG:O	2.21	0.40
1:A:721:LEU:HD21	1:A:1474:VAL:HG11	2.03	0.40
1:A:1850:VAL:HG22	1:A:1945:TYR:CD1	2.56	0.40
1:A:2927:LEU:HD23	1:A:2930:LEU:HD12	2.04	0.40
1:A:3767:GLN:CD	1:A:3809:ASN:HD21	2.21	0.40
1:A:3906:GLN:NE2	1:A:3909:ASN:HD22	2.11	0.40
1:A:4243:PHE:O	1:A:4247:ILE:HG13	2.22	0.40
1:A:4581:LYS:HG2	1:A:4632:LEU:HD22	2.03	0.40
2:B:84:ALA:O	2:B:93:PRO:HB3	2.21	0.40
1:C:283:ARG:HA	1:C:290:TYR:HD1	1.86	0.40
1:C:596:ASN:HB2	1:C:599:VAL:HG23	1.93	0.40
1:C:671:VAL:HG13	1:C:787:VAL:HG22	2.03	0.40
1:C:720:HIS:HB2	1:C:728:ARG:O	2.21	0.40
1:C:753:PRO:HG2	1:C:770:ALA:H	1.86	0.40
1:C:833:GLY:HA3	1:C:838:HIS:ND1	2.37	0.40
1:C:1018:ASN:CG	1:C:1021:LEU:CD2	2.89	0.40
1:C:1092:PHE:CG	1:C:1102:VAL:HG21	2.57	0.40
1:C:1734:TYR:OH	1:C:1948:ASP:OD1	2.39	0.40
1:C:1763:PRO:HG3	1:C:2094:LEU:CD2	2.51	0.40
1:C:2819:TRP:HH2	1:C:2881:ASN:HB2	1.86	0.40
1:C:3828:PHE:O	1:C:3831:SER:HB3	2.22	0.40
1:C:3955:MET:O	1:C:4019:LEU:HD12	2.20	0.40
1:C:4243:PHE:O	1:C:4247:ILE:HG13	2.22	0.40
1:C:4687:TYR:HD1	1:C:4687:TYR:N	2.20	0.40
2:D:11:ASP:OD1	2:D:12:GLY:N	2.54	0.40
1:E:161:GLU:HG2	1:G:3984:ARG:HD3	1.99	0.40
1:E:195:PHE:CZ	1:G:2358:ILE:HG23	2.45	0.40
1:E:1198:GLN:OE1	1:E:1198:GLN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1464:MET:O	1:E:1466:PHE:N	2.52	0.40
1:E:1730:MET:HE1	1:E:2159:LEU:HB2	2.02	0.40
1:E:1940:CYS:SG	1:E:2123:LEU:HD12	2.62	0.40
1:E:1958:LEU:HD11	1:E:3657:TYR:CE2	2.54	0.40
1:E:3962:PHE:HD1	1:E:4026:MET:SD	2.43	0.40
1:G:283:ARG:HA	1:G:290:TYR:HD1	1.86	0.40
1:G:564:LEU:O	1:G:568:LEU:HG	2.21	0.40
1:G:748:LEU:HD13	1:G:755:ILE:CG1	2.52	0.40
1:G:833:GLY:HA3	1:G:838:HIS:ND1	2.37	0.40
1:G:993:HIS:CD2	1:G:1024:TYR:HB2	2.56	0.40
1:G:1098:GLY:HA3	1:G:1198:GLN:HG2	2.03	0.40
1:G:1684:ALA:HB1	2:H:89:GLY:O	2.20	0.40
1:G:1763:PRO:HG3	1:G:2094:LEU:CD2	2.51	0.40
1:G:1940:CYS:SG	1:G:2123:LEU:HD12	2.62	0.40
1:G:2123:LEU:HA	1:G:2126:ARG:HB3	2.03	0.40
1:G:2927:LEU:HD23	1:G:2930:LEU:HD12	2.04	0.40
1:G:3657:TYR:CE2	1:G:3662:ILE:HD11	2.56	0.40
1:G:3716:LEU:HD11	1:G:3785:ALA:HB1	2.03	0.40
1:G:3906:GLN:NE2	1:G:3909:ASN:HD22	2.11	0.40
1:A:283:ARG:HA	1:A:290:TYR:HD1	1.86	0.40
1:A:622:THR:HG22	1:A:626:LEU:HD12	2.02	0.40
1:A:753:PRO:HG2	1:A:770:ALA:H	1.86	0.40
1:A:833:GLY:HA3	1:A:838:HIS:ND1	2.37	0.40
1:A:941:MET:HA	1:A:1051:TYR:HD1	1.86	0.40
1:A:1078:GLU:HG3	1:A:1237:TRP:HZ2	1.86	0.40
1:A:1246:GLU:C	1:A:1602:PRO:HB3	2.41	0.40
1:A:1637:MET:SD	1:A:1696:HIS:HD2	2.44	0.40
1:A:1863:LEU:HD23	1:A:1863:LEU:HA	1.87	0.40
1:A:1940:CYS:SG	1:A:2123:LEU:HD12	2.62	0.40
1:A:1961:PHE:CG	1:A:2066:LEU:HG	2.56	0.40
1:A:2553:TYR:HD1	1:A:2556:LEU:HD12	1.85	0.40
1:A:2556:LEU:HD23	1:A:2559:LEU:HD12	2.02	0.40
2:B:11:ASP:OD1	2:B:67:SER:HB2	2.21	0.40
1:C:161:GLU:CG	1:E:3984:ARG:CD	2.94	0.40
1:C:176:SER:O	1:E:2456:ILE:HD12	2.22	0.40
1:C:472:ARG:HH11	1:C:532:GLY:HA2	1.85	0.40
1:C:1698:LEU:HA	1:C:1712:TYR:CE1	2.56	0.40
1:C:1842:LEU:HD21	1:C:1926:LEU:HD21	2.03	0.40
1:C:1848:LEU:HD21	1:C:1854:PHE:CZ	2.53	0.40
1:C:2138:LEU:N	1:C:2139:PRO:HD2	2.37	0.40
1:C:2554:LEU:HD11	1:C:2594:UNK:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2799:GLU:HA	1:C:2802:LYS:HD2	2.03	0.40
1:C:4837:LEU:HD11	1:C:4932:ILE:HG23	2.03	0.40
1:C:4961:CYS:HG	1:C:4978:HIS:HE2	1.68	0.40
2:D:26:TYR:O	2:D:39:SER:CB	2.69	0.40
1:E:49:LEU:HD13	1:E:189:LEU:CB	2.30	0.40
1:E:287:THR:HB	1:E:289:ARG:HH11	1.85	0.40
1:E:833:GLY:HA3	1:E:838:HIS:ND1	2.37	0.40
1:E:993:HIS:CD2	1:E:1024:TYR:HB2	2.56	0.40
1:E:2123:LEU:HA	1:E:2126:ARG:HB3	2.03	0.40
1:E:4093:PHE:CG	1:E:4112:LEU:HD21	2.56	0.40
1:G:159:GLU:HG2	1:G:160:GLY:N	2.37	0.40
1:G:1018:ASN:CG	1:G:1021:LEU:CD2	2.89	0.40
1:G:1022:VAL:O	1:G:1023:PRO:C	2.59	0.40
1:G:1198:GLN:N	1:G:1198:GLN:OE1	2.54	0.40
1:G:4243:PHE:O	1:G:4247:ILE:HG13	2.22	0.40
2:H:28:GLY:N	2:H:37:ASP:O	2.39	0.40
1:A:484:LEU:HD11	1:A:536:ASN:OD1	2.22	0.40
1:A:1092:PHE:CG	1:A:1102:VAL:HG21	2.57	0.40
1:A:1122:TYR:CZ	1:A:1133:HIS:CE1	2.88	0.40
1:A:1131:ARG:HD3	1:A:1139:PHE:CG	2.56	0.40
1:A:1255:TYR:CE1	1:A:1287:LEU:HD11	2.57	0.40
1:A:1433:TYR:CE1	1:A:1583:GLU:HB2	2.56	0.40
1:A:2123:LEU:HA	1:A:2126:ARG:HB3	2.03	0.40
1:A:3828:PHE:O	1:A:3831:SER:HB3	2.22	0.40
1:A:3928:GLU:OE2	1:G:159:GLU:O	2.39	0.40
1:A:3966:THR:HG22	1:A:4026:MET:HA	2.02	0.40
1:A:4192:ARG:HD2	1:A:4194:TYR:OH	2.22	0.40
1:A:4837:LEU:HD11	1:A:4932:ILE:HG23	2.03	0.40
1:C:178:ARG:HH12	1:E:2456:ILE:HG13	1.87	0.40
1:C:484:LEU:HD11	1:C:536:ASN:OD1	2.22	0.40
1:C:564:LEU:O	1:C:568:LEU:HG	2.21	0.40
1:C:662:TRP:CZ3	1:C:814:ALA:HB2	2.56	0.40
1:C:750:LEU:HG	1:C:751:SER:N	2.36	0.40
1:C:806:PRO:O	1:C:808:TYR:CD1	2.73	0.40
1:C:993:HIS:CE1	1:C:1020:ARG:HB3	2.45	0.40
1:C:1803:PRO:HB2	1:C:1806:ALA:HB3	2.03	0.40
1:C:4085:ARG:HB3	1:C:4087:LEU:HD13	2.03	0.40
1:C:4580:TYR:HD2	1:C:4807:PHE:HZ	1.70	0.40
1:C:4690:GLU:OE2	1:C:4690:GLU:HA	2.20	0.40
2:D:11:ASP:OD1	2:D:67:SER:HB2	2.21	0.40
1:E:564:LEU:O	1:E:568:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2763:HIS:NE2	1:E:2792:ARG:O	2.52	0.40
1:E:2862:LEU:HD21	1:E:2929:PHE:HB2	2.03	0.40
1:E:3806:ASN:H	1:E:3890:LEU:HD23	1.87	0.40
1:E:4085:ARG:HB3	1:E:4087:LEU:HD13	2.03	0.40
1:G:287:THR:HB	1:G:289:ARG:HH11	1.85	0.40
1:G:675:LEU:O	1:G:676:THR:OG1	2.28	0.40
1:G:758:ARG:NH1	1:G:804:PRO:CB	2.77	0.40
1:G:1255:TYR:CE1	1:G:1287:LEU:HD11	2.57	0.40
1:G:1615:VAL:HG12	1:G:1634:LEU:CD1	2.50	0.40
1:G:1762:LEU:CD1	1:G:1863:LEU:HD12	2.50	0.40
1:G:2431:ASP:O	1:G:2435:ARG:HB2	2.21	0.40
1:G:2556:LEU:HD23	1:G:2559:LEU:HD12	2.02	0.40
1:G:3714:SER:OG	1:G:3715:LYS:N	2.55	0.40
1:G:4150:LEU:O	1:G:4154:VAL:N	2.36	0.40
1:G:4581:LYS:HG2	1:G:4632:LEU:HD22	2.03	0.40
1:A:3714:SER:OG	1:A:3715:LYS:N	2.55	0.40
1:C:622:THR:HG22	1:C:626:LEU:HD12	2.02	0.40
1:C:975:VAL:HG11	1:C:1047:LEU:HB3	2.03	0.40
1:C:1078:GLU:HG3	1:C:1237:TRP:CZ2	2.57	0.40
1:C:2126:ARG:HG3	1:C:2133:GLU:CD	2.42	0.40
1:C:3805:LEU:HD13	1:C:3890:LEU:HB3	2.03	0.40
1:C:4192:ARG:HD2	1:C:4194:TYR:OH	2.22	0.40
1:C:4904:PRO:CG	1:C:4910:GLU:HA	2.51	0.40
1:E:602:VAL:O	1:E:605:SER:OG	2.25	0.40
1:E:622:THR:HG22	1:E:626:LEU:HD12	2.02	0.40
1:E:1453:VAL:HG12	1:E:1454:THR:O	2.21	0.40
1:E:1780:PRO:HD3	1:E:1801:ALA:HB3	2.03	0.40
1:E:2927:LEU:HD23	1:E:2930:LEU:HD12	2.04	0.40
1:E:4051:SER:HG	1:E:4055:VAL:HG23	1.87	0.40
2:F:11:ASP:OD1	2:F:12:GLY:N	2.54	0.40
2:F:11:ASP:OD1	2:F:67:SER:HB2	2.21	0.40
2:F:84:ALA:O	2:F:93:PRO:HB3	2.21	0.40
1:G:1464:MET:O	1:G:1466:PHE:N	2.52	0.40
1:G:2554:LEU:HD11	1:G:2594:UNK:CB	2.51	0.40
1:G:4020:GLN:O	1:G:4024:VAL:HG22	2.21	0.40
1:G:4862:PHE:CD2	1:G:4913:ARG:HD2	2.56	0.40
2:H:26:TYR:N	2:H:39:SER:CB	2.63	0.40
2:H:42:ARG:C	2:H:44:LYS:H	2.25	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
1	C	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
1	E	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
1	G	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	7	41
2	B	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
2	D	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
2	F	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
2	H	105/107 (98%)	97 (92%)	8 (8%)	0	100	100
All	All	12384/18824 (66%)	11492 (93%)	652 (5%)	240 (2%)	11	42

All (240) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	737	LEU
1	A	807	GLY
1	A	827	LYS
1	A	852	VAL
1	A	1254	HIS
1	A	1479	GLU
1	A	1545	ASN
1	A	1599	MET
1	A	1768	THR
1	A	3941	ASP
1	A	4084	PRO
1	A	4694	ASP
1	A	4984	ASN
1	A	5027	CYS
1	C	737	LEU
1	C	807	GLY
1	C	827	LYS

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Mol	Chain	Res	Type
1	C	852	VAL
1	C	1254	HIS
1	C	1479	GLU
1	C	1545	ASN
1	C	1599	MET
1	C	1768	THR
1	C	3941	ASP
1	C	4084	PRO
1	C	4694	ASP
1	C	4984	ASN
1	C	5027	CYS
1	E	737	LEU
1	E	807	GLY
1	E	827	LYS
1	E	852	VAL
1	E	1254	HIS
1	E	1479	GLU
1	E	1545	ASN
1	E	1599	MET
1	E	1768	THR
1	E	3941	ASP
1	E	4084	PRO
1	E	4694	ASP
1	E	4984	ASN
1	E	5027	CYS
1	G	737	LEU
1	G	807	GLY
1	G	827	LYS
1	G	852	VAL
1	G	1254	HIS
1	G	1479	GLU
1	G	1545	ASN
1	G	1599	MET
1	G	1768	THR
1	G	3941	ASP
1	G	4084	PRO
1	G	4694	ASP
1	G	4984	ASN
1	G	5027	CYS
1	A	611	GLY
1	A	818	ARG
1	A	1463	ASP

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Mol	Chain	Res	Type
1	A	1483	VAL
1	A	2341	VAL
1	A	4036	VAL
1	C	611	GLY
1	C	818	ARG
1	C	1463	ASP
1	C	1483	VAL
1	C	2341	VAL
1	C	4036	VAL
1	E	611	GLY
1	E	818	ARG
1	E	1463	ASP
1	E	1483	VAL
1	E	2341	VAL
1	E	4036	VAL
1	G	611	GLY
1	G	818	ARG
1	G	1463	ASP
1	G	1483	VAL
1	G	2341	VAL
1	G	4036	VAL
1	A	360	ALA
1	A	676	THR
1	A	720	HIS
1	A	806	PRO
1	A	826	ILE
1	A	844	ARG
1	A	1206	GLN
1	A	1286	MET
1	A	1762	LEU
1	A	1769	THR
1	A	1772	ARG
1	A	2826	ALA
1	A	3695	PRO
1	A	4156	HIS
1	A	4208	PRO
1	A	4985	LEU
1	C	360	ALA
1	C	676	THR
1	C	720	HIS
1	C	806	PRO
1	C	826	ILE

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Mol	Chain	Res	Type
1	C	844	ARG
1	C	1206	GLN
1	C	1286	MET
1	C	1762	LEU
1	C	1769	THR
1	C	1772	ARG
1	C	2826	ALA
1	C	3695	PRO
1	C	4156	HIS
1	C	4208	PRO
1	C	4985	LEU
1	E	360	ALA
1	E	676	THR
1	E	720	HIS
1	E	806	PRO
1	E	826	ILE
1	E	844	ARG
1	E	1206	GLN
1	E	1286	MET
1	E	1762	LEU
1	E	1769	THR
1	E	1772	ARG
1	E	2826	ALA
1	E	3695	PRO
1	E	4156	HIS
1	E	4208	PRO
1	E	4985	LEU
1	G	360	ALA
1	G	676	THR
1	G	720	HIS
1	G	806	PRO
1	G	826	ILE
1	G	844	ARG
1	G	1206	GLN
1	G	1286	MET
1	G	1762	LEU
1	G	1769	THR
1	G	1772	ARG
1	G	2826	ALA
1	G	3695	PRO
1	G	4156	HIS
1	G	4208	PRO

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Mol	Chain	Res	Type
1	G	4985	LEU
1	A	842	PRO
1	A	1830	VAL
1	A	2113	SER
1	A	3840	SER
1	A	4120	ASN
1	A	4692	PRO
1	A	5025	GLY
1	C	842	PRO
1	C	1830	VAL
1	C	2113	SER
1	C	3840	SER
1	C	4120	ASN
1	C	4692	PRO
1	C	5025	GLY
1	E	842	PRO
1	E	1830	VAL
1	E	2113	SER
1	E	3840	SER
1	E	4120	ASN
1	E	4692	PRO
1	E	5025	GLY
1	G	842	PRO
1	G	1830	VAL
1	G	2113	SER
1	G	3840	SER
1	G	4120	ASN
1	G	4692	PRO
1	G	5025	GLY
1	A	828	GLU
1	A	1465	ASN
1	A	1690	ASP
1	A	3843	ASP
1	A	4691	GLN
1	A	4732	PHE
1	A	4868	ASP
1	C	828	GLU
1	C	1465	ASN
1	C	1690	ASP
1	C	3843	ASP
1	C	4691	GLN
1	C	4732	PHE

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Mol	Chain	Res	Type
1	C	4868	ASP
1	E	828	GLU
1	E	1465	ASN
1	E	1690	ASP
1	E	3843	ASP
1	E	4691	GLN
1	E	4732	PHE
1	E	4868	ASP
1	G	828	GLU
1	G	1465	ASN
1	G	1690	ASP
1	G	3843	ASP
1	G	4691	GLN
1	G	4732	PHE
1	G	4868	ASP
1	A	691	GLY
1	A	729	PRO
1	A	1854	PHE
1	A	2343	GLY
1	A	2360	LYS
1	A	3826	VAL
1	C	691	GLY
1	C	729	PRO
1	C	1854	PHE
1	C	2343	GLY
1	C	2360	LYS
1	C	3826	VAL
1	E	691	GLY
1	E	729	PRO
1	E	1854	PHE
1	E	2343	GLY
1	E	2360	LYS
1	E	3826	VAL
1	G	691	GLY
1	G	729	PRO
1	G	1854	PHE
1	G	2343	GLY
1	G	2360	LYS
1	G	3826	VAL
1	A	767	VAL
1	A	2900	GLY
1	C	767	VAL

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Mol	Chain	Res	Type
1	C	2900	GLY
1	E	767	VAL
1	E	2900	GLY
1	G	767	VAL
1	G	2900	GLY
1	A	4226	GLY
1	C	4226	GLY
1	E	4226	GLY
1	G	4226	GLY
1	A	1829	PRO
1	C	1829	PRO
1	E	1829	PRO
1	G	1829	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	A	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
1	C	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
1	E	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
1	G	2507/3406 (74%)	2439 (97%)	68 (3%)	44	69
2	B	89/89 (100%)	88 (99%)	1 (1%)	73	85
2	D	89/89 (100%)	88 (99%)	1 (1%)	73	85
2	F	89/89 (100%)	88 (99%)	1 (1%)	73	85
2	H	89/89 (100%)	88 (99%)	1 (1%)	73	85
All	All	10384/13980 (74%)	10108 (97%)	276 (3%)	48	69

All (276) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	PHE
1	A	45	ARG

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Mol	Chain	Res	Type
1	A	125	ARG
1	A	156	GLN
1	A	157	ARG
1	A	161	GLU
1	A	164	ARG
1	A	167	ASP
1	A	189	LEU
1	A	190	GLN
1	A	218	HIS
1	A	334	MET
1	A	554	LEU
1	A	555	GLU
1	A	557	SER
1	A	595	ARG
1	A	596	ASN
1	A	597	HIS
1	A	598	LYS
1	A	680	THR
1	A	681	HIS
1	A	682	LEU
1	A	721	LEU
1	A	806	PRO
1	A	851	PHE
1	A	865	PRO
1	A	896	VAL
1	A	916	PRO
1	A	979	PRO
1	A	1001	VAL
1	A	1045	THR
1	A	1055	PRO
1	A	1097	THR
1	A	1131	ARG
1	A	1132	TRP
1	A	1134	LEU
1	A	1156	THR
1	A	1479	GLU
1	A	1545	ASN
1	A	1555	LEU
1	A	1680	ARG
1	A	1762	LEU
1	A	1837	GLN
1	A	1856	ASP

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Mol	Chain	Res	Type
1	A	2066	LEU
1	A	2256	TYR
1	A	2919	ASP
1	A	3669	PHE
1	A	3708	THR
1	A	3806	ASN
1	A	3970	GLN
1	A	3973	CYS
1	A	3992	PHE
1	A	4006	ASP
1	A	4009	GLN
1	A	4072	VAL
1	A	4083	ASP
1	A	4106	PRO
1	A	4178	LEU
1	A	4180	ARG
1	A	4189	ARG
1	A	4686	LEU
1	A	4689	THR
1	A	4691	GLN
1	A	4897	ILE
1	A	4901	ILE
1	A	4902	GLU
1	A	4903	ASP
2	B	40	ARG
1	C	13	PHE
1	C	45	ARG
1	C	125	ARG
1	C	156	GLN
1	C	157	ARG
1	C	161	GLU
1	C	164	ARG
1	C	167	ASP
1	C	189	LEU
1	C	190	GLN
1	C	218	HIS
1	C	334	MET
1	C	554	LEU
1	C	555	GLU
1	C	557	SER
1	C	595	ARG
1	C	596	ASN

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Mol	Chain	Res	Type
1	C	597	HIS
1	C	598	LYS
1	C	680	THR
1	C	681	HIS
1	C	682	LEU
1	C	721	LEU
1	C	806	PRO
1	C	851	PHE
1	C	865	PRO
1	C	896	VAL
1	C	916	PRO
1	C	979	PRO
1	C	1001	VAL
1	C	1045	THR
1	C	1055	PRO
1	C	1097	THR
1	C	1131	ARG
1	C	1132	TRP
1	C	1134	LEU
1	C	1156	THR
1	C	1479	GLU
1	C	1545	ASN
1	C	1555	LEU
1	C	1680	ARG
1	C	1762	LEU
1	C	1837	GLN
1	C	1856	ASP
1	C	2066	LEU
1	C	2256	TYR
1	C	2919	ASP
1	C	3669	PHE
1	C	3708	THR
1	C	3806	ASN
1	C	3970	GLN
1	C	3973	CYS
1	C	3992	PHE
1	C	4006	ASP
1	C	4009	GLN
1	C	4072	VAL
1	C	4083	ASP
1	C	4106	PRO
1	C	4178	LEU

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Mol	Chain	Res	Type
1	C	4180	ARG
1	C	4189	ARG
1	C	4686	LEU
1	C	4689	THR
1	C	4691	GLN
1	C	4897	ILE
1	C	4901	ILE
1	C	4902	GLU
1	C	4903	ASP
2	D	40	ARG
1	E	13	PHE
1	E	45	ARG
1	E	125	ARG
1	E	156	GLN
1	E	157	ARG
1	E	161	GLU
1	E	164	ARG
1	E	167	ASP
1	E	189	LEU
1	E	190	GLN
1	E	218	HIS
1	E	334	MET
1	E	554	LEU
1	E	555	GLU
1	E	557	SER
1	E	595	ARG
1	E	596	ASN
1	E	597	HIS
1	E	598	LYS
1	E	680	THR
1	E	681	HIS
1	E	682	LEU
1	E	721	LEU
1	E	806	PRO
1	E	851	PHE
1	E	865	PRO
1	E	896	VAL
1	E	916	PRO
1	E	979	PRO
1	E	1001	VAL
1	E	1045	THR
1	E	1055	PRO

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Mol	Chain	Res	Type
1	E	1097	THR
1	E	1131	ARG
1	E	1132	TRP
1	E	1134	LEU
1	E	1156	THR
1	E	1479	GLU
1	E	1545	ASN
1	E	1555	LEU
1	E	1680	ARG
1	E	1762	LEU
1	E	1837	GLN
1	E	1856	ASP
1	E	2066	LEU
1	E	2256	TYR
1	E	2919	ASP
1	E	3669	PHE
1	E	3708	THR
1	E	3806	ASN
1	E	3970	GLN
1	E	3973	CYS
1	E	3992	PHE
1	E	4006	ASP
1	E	4009	GLN
1	E	4072	VAL
1	E	4083	ASP
1	E	4106	PRO
1	E	4178	LEU
1	E	4180	ARG
1	E	4189	ARG
1	E	4686	LEU
1	E	4689	THR
1	E	4691	GLN
1	E	4897	ILE
1	E	4901	ILE
1	E	4902	GLU
1	E	4903	ASP
2	F	40	ARG
1	G	13	PHE
1	G	45	ARG
1	G	125	ARG
1	G	156	GLN
1	G	157	ARG

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Mol	Chain	Res	Type
1	G	161	GLU
1	G	164	ARG
1	G	167	ASP
1	G	189	LEU
1	G	190	GLN
1	G	218	HIS
1	G	334	MET
1	G	554	LEU
1	G	555	GLU
1	G	557	SER
1	G	595	ARG
1	G	596	ASN
1	G	597	HIS
1	G	598	LYS
1	G	680	THR
1	G	681	HIS
1	G	682	LEU
1	G	721	LEU
1	G	806	PRO
1	G	851	PHE
1	G	865	PRO
1	G	896	VAL
1	G	916	PRO
1	G	979	PRO
1	G	1001	VAL
1	G	1045	THR
1	G	1055	PRO
1	G	1097	THR
1	G	1131	ARG
1	G	1132	TRP
1	G	1134	LEU
1	G	1156	THR
1	G	1479	GLU
1	G	1545	ASN
1	G	1555	LEU
1	G	1680	ARG
1	G	1762	LEU
1	G	1837	GLN
1	G	1856	ASP
1	G	2066	LEU
1	G	2256	TYR
1	G	2919	ASP

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Mol	Chain	Res	Type
1	G	3669	PHE
1	G	3708	THR
1	G	3806	ASN
1	G	3970	GLN
1	G	3973	CYS
1	G	3992	PHE
1	G	4006	ASP
1	G	4009	GLN
1	G	4072	VAL
1	G	4083	ASP
1	G	4106	PRO
1	G	4178	LEU
1	G	4180	ARG
1	G	4189	ARG
1	G	4686	LEU
1	G	4689	THR
1	G	4691	GLN
1	G	4897	ILE
1	G	4901	ILE
1	G	4902	GLU
1	G	4903	ASP
2	H	40	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (221) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	57	ASN
1	A	105	HIS
1	A	111	HIS
1	A	113	HIS
1	A	156	GLN
1	A	181	HIS
1	A	190	GLN
1	A	273	HIS
1	A	278	GLN
1	A	405	HIS
1	A	465	GLN
1	A	479	GLN
1	A	533	ASN
1	A	582	HIS
1	A	593	HIS
1	A	596	ASN

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Mol	Chain	Res	Type
1	A	681	HIS
1	A	735	GLN
1	A	991	ASN
1	A	993	HIS
1	A	1127	HIS
1	A	1545	ASN
1	A	1598	GLN
1	A	1610	ASN
1	A	1631	GLN
1	A	1691	GLN
1	A	1693	GLN
1	A	1696	HIS
1	A	1719	HIS
1	A	1775	HIS
1	A	1837	GLN
1	A	1952	GLN
1	A	2100	HIS
1	A	2196	ASN
1	A	2245	GLN
1	A	2253	HIS
1	A	2773	ASN
1	A	2856	ASN
1	A	3647	HIS
1	A	3699	HIS
1	A	3813	GLN
1	A	3837	GLN
1	A	3909	ASN
1	A	3970	GLN
1	A	3977	GLN
1	A	3994	HIS
1	A	4020	GLN
1	A	4054	ASN
1	A	4153	HIS
1	A	4700	GLN
1	A	4949	GLN
1	A	4987	ASN
1	A	5031	GLN
2	B	25	HIS
2	B	87	HIS
1	C	57	ASN
1	C	105	HIS
1	C	111	HIS

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Mol	Chain	Res	Type
1	C	113	HIS
1	C	156	GLN
1	C	181	HIS
1	C	190	GLN
1	C	273	HIS
1	C	278	GLN
1	C	405	HIS
1	C	465	GLN
1	C	479	GLN
1	C	533	ASN
1	C	582	HIS
1	C	593	HIS
1	C	596	ASN
1	C	681	HIS
1	C	735	GLN
1	C	991	ASN
1	C	993	HIS
1	C	1127	HIS
1	C	1545	ASN
1	C	1598	GLN
1	C	1610	ASN
1	C	1631	GLN
1	C	1691	GLN
1	C	1693	GLN
1	C	1696	HIS
1	C	1719	HIS
1	C	1775	HIS
1	C	1837	GLN
1	C	1952	GLN
1	C	2100	HIS
1	C	2127	GLN
1	C	2196	ASN
1	C	2245	GLN
1	C	2253	HIS
1	C	2773	ASN
1	C	2856	ASN
1	C	3647	HIS
1	C	3699	HIS
1	C	3813	GLN
1	C	3837	GLN
1	C	3909	ASN
1	C	3970	GLN

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Mol	Chain	Res	Type
1	C	3977	GLN
1	C	3994	HIS
1	C	4020	GLN
1	C	4054	ASN
1	C	4153	HIS
1	C	4700	GLN
1	C	4949	GLN
1	C	4987	ASN
1	C	5031	GLN
2	D	25	HIS
2	D	87	HIS
1	E	57	ASN
1	E	105	HIS
1	E	111	HIS
1	E	113	HIS
1	E	156	GLN
1	E	181	HIS
1	E	190	GLN
1	E	273	HIS
1	E	278	GLN
1	E	405	HIS
1	E	465	GLN
1	E	479	GLN
1	E	533	ASN
1	E	582	HIS
1	E	593	HIS
1	E	596	ASN
1	E	681	HIS
1	E	735	GLN
1	E	991	ASN
1	E	993	HIS
1	E	1127	HIS
1	E	1545	ASN
1	E	1598	GLN
1	E	1610	ASN
1	E	1631	GLN
1	E	1691	GLN
1	E	1693	GLN
1	E	1696	HIS
1	E	1719	HIS
1	E	1775	HIS
1	E	1837	GLN

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Mol	Chain	Res	Type
1	E	1952	GLN
1	E	2100	HIS
1	E	2196	ASN
1	E	2245	GLN
1	E	2253	HIS
1	E	2773	ASN
1	E	2856	ASN
1	E	3647	HIS
1	E	3699	HIS
1	E	3813	GLN
1	E	3837	GLN
1	E	3909	ASN
1	E	3970	GLN
1	E	3977	GLN
1	E	3994	HIS
1	E	4020	GLN
1	E	4054	ASN
1	E	4153	HIS
1	E	4700	GLN
1	E	4949	GLN
1	E	4987	ASN
1	E	5031	GLN
2	F	25	HIS
2	F	87	HIS
1	G	57	ASN
1	G	105	HIS
1	G	111	HIS
1	G	113	HIS
1	G	156	GLN
1	G	181	HIS
1	G	190	GLN
1	G	273	HIS
1	G	278	GLN
1	G	405	HIS
1	G	465	GLN
1	G	479	GLN
1	G	533	ASN
1	G	582	HIS
1	G	593	HIS
1	G	596	ASN
1	G	681	HIS
1	G	735	GLN

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Mol	Chain	Res	Type
1	G	991	ASN
1	G	993	HIS
1	G	1127	HIS
1	G	1545	ASN
1	G	1598	GLN
1	G	1610	ASN
1	G	1631	GLN
1	G	1691	GLN
1	G	1693	GLN
1	G	1696	HIS
1	G	1719	HIS
1	G	1775	HIS
1	G	1837	GLN
1	G	1952	GLN
1	G	2100	HIS
1	G	2196	ASN
1	G	2245	GLN
1	G	2253	HIS
1	G	2773	ASN
1	G	2856	ASN
1	G	3647	HIS
1	G	3699	HIS
1	G	3813	GLN
1	G	3837	GLN
1	G	3909	ASN
1	G	3970	GLN
1	G	3977	GLN
1	G	3994	HIS
1	G	4020	GLN
1	G	4054	ASN
1	G	4153	HIS
1	G	4700	GLN
1	G	4949	GLN
1	G	4987	ASN
1	G	5031	GLN
2	H	25	HIS
2	H	87	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	36
1	C	36
1	E	36
1	G	36

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	3572:UNK	C	3645:PRO	N	56.50
1	C	3572:UNK	C	3645:PRO	N	56.50
1	E	3572:UNK	C	3645:PRO	N	56.50
1	G	3572:UNK	C	3645:PRO	N	56.50

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	2712:UNK	C	2734:ASN	N	35.36
1	C	2712:UNK	C	2734:ASN	N	35.36
1	E	2712:UNK	C	2734:ASN	N	35.36
1	G	2712:UNK	C	2734:ASN	N	35.36
1	A	2940:GLY	C	3016:UNK	N	22.63
1	C	2940:GLY	C	3016:UNK	N	22.63
1	E	2940:GLY	C	3016:UNK	N	22.63
1	G	2940:GLY	C	3016:UNK	N	22.63
1	A	2562:ILE	C	2567:UNK	N	20.69
1	C	2562:ILE	C	2567:UNK	N	20.69
1	E	2562:ILE	C	2567:UNK	N	20.69
1	G	2562:ILE	C	2567:UNK	N	20.69
1	A	3470:UNK	C	3478:UNK	N	18.86
1	C	3470:UNK	C	3478:UNK	N	18.86
1	E	3470:UNK	C	3478:UNK	N	18.86
1	G	3470:UNK	C	3478:UNK	N	18.86
1	A	3090:UNK	C	3095:UNK	N	17.43
1	C	3090:UNK	C	3095:UNK	N	17.43
1	E	3090:UNK	C	3095:UNK	N	17.43
1	G	3090:UNK	C	3095:UNK	N	17.43
1	A	2660:UNK	C	2667:UNK	N	17.07
1	C	2660:UNK	C	2667:UNK	N	17.07
1	E	2660:UNK	C	2667:UNK	N	17.07
1	G	2660:UNK	C	2667:UNK	N	17.07
1	A	1976:ARG	C	2033:UNK	N	17.00
1	C	1976:ARG	C	2033:UNK	N	17.00
1	E	1976:ARG	C	2033:UNK	N	17.00
1	G	1976:ARG	C	2033:UNK	N	17.00
1	A	3178:UNK	C	3183:UNK	N	16.21
1	C	3178:UNK	C	3183:UNK	N	16.21
1	E	3178:UNK	C	3183:UNK	N	16.21
1	G	3178:UNK	C	3183:UNK	N	16.21
1	A	3116:UNK	C	3132:UNK	N	15.81
1	C	3116:UNK	C	3132:UNK	N	15.81
1	E	3116:UNK	C	3132:UNK	N	15.81
1	G	3116:UNK	C	3132:UNK	N	15.81
1	A	1497:UNK	C	1507:SER	N	14.64
1	C	1497:UNK	C	1507:SER	N	14.64
1	E	1497:UNK	C	1507:SER	N	14.64
1	G	1497:UNK	C	1507:SER	N	14.64
1	A	3152:UNK	C	3158:UNK	N	13.93
1	C	3152:UNK	C	3158:UNK	N	13.93

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	3152:UNK	C	3158:UNK	N	13.93
1	G	3152:UNK	C	3158:UNK	N	13.93
1	A	2047:UNK	C	2057:THR	N	13.83
1	C	2047:UNK	C	2057:THR	N	13.83
1	E	2047:UNK	C	2057:THR	N	13.83
1	G	2047:UNK	C	2057:THR	N	13.83
1	A	2586:UNK	C	2591:UNK	N	13.69
1	C	2586:UNK	C	2591:UNK	N	13.69
1	E	2586:UNK	C	2591:UNK	N	13.69
1	G	2586:UNK	C	2591:UNK	N	13.69
1	A	3062:UNK	C	3068:UNK	N	13.56
1	C	3062:UNK	C	3068:UNK	N	13.56
1	E	3062:UNK	C	3068:UNK	N	13.56
1	G	3062:UNK	C	3068:UNK	N	13.56
1	A	3217:UNK	C	3273:UNK	N	12.43
1	C	3217:UNK	C	3273:UNK	N	12.43
1	E	3217:UNK	C	3273:UNK	N	12.43
1	G	3217:UNK	C	3273:UNK	N	12.43
1	A	3200:UNK	C	3204:UNK	N	12.30
1	C	3200:UNK	C	3204:UNK	N	12.30
1	E	3200:UNK	C	3204:UNK	N	12.30
1	G	3200:UNK	C	3204:UNK	N	12.30
1	A	2634:UNK	C	2638:UNK	N	11.92
1	C	2634:UNK	C	2638:UNK	N	11.92
1	E	2634:UNK	C	2638:UNK	N	11.92
1	G	2634:UNK	C	2638:UNK	N	11.92
1	A	3039:UNK	C	3043:UNK	N	11.43
1	C	3039:UNK	C	3043:UNK	N	11.43
1	E	3039:UNK	C	3043:UNK	N	11.43
1	G	3039:UNK	C	3043:UNK	N	11.43
1	A	3363:UNK	C	3367:UNK	N	11.25
1	C	3363:UNK	C	3367:UNK	N	11.25
1	E	3363:UNK	C	3367:UNK	N	11.25
1	G	3363:UNK	C	3367:UNK	N	11.25
1	A	2476:UNK	C	2494:PHE	N	11.12
1	C	2476:UNK	C	2494:PHE	N	11.12
1	E	2476:UNK	C	2494:PHE	N	11.12
1	G	2476:UNK	C	2494:PHE	N	11.12
1	A	3397:UNK	C	3402:UNK	N	10.60
1	C	3397:UNK	C	3402:UNK	N	10.60
1	E	3397:UNK	C	3402:UNK	N	10.60
1	G	3397:UNK	C	3402:UNK	N	10.60

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	3313:UNK	C	3317:UNK	N	10.53
1	C	3313:UNK	C	3317:UNK	N	10.53
1	E	3313:UNK	C	3317:UNK	N	10.53
1	G	3313:UNK	C	3317:UNK	N	10.53
1	A	3339:UNK	C	3346:UNK	N	9.83
1	C	3339:UNK	C	3346:UNK	N	9.83
1	E	3339:UNK	C	3346:UNK	N	9.83
1	G	3339:UNK	C	3346:UNK	N	9.83
1	A	3290:UNK	C	3294:UNK	N	9.75
1	C	3290:UNK	C	3294:UNK	N	9.75
1	E	3290:UNK	C	3294:UNK	N	9.75
1	G	3290:UNK	C	3294:UNK	N	9.75
1	A	2686:UNK	C	2691:UNK	N	9.35
1	C	2686:UNK	C	2691:UNK	N	9.35
1	E	2686:UNK	C	2691:UNK	N	9.35
1	G	2686:UNK	C	2691:UNK	N	9.35
1	A	3504:UNK	C	3513:UNK	N	9.25
1	C	3504:UNK	C	3513:UNK	N	9.25
1	E	3504:UNK	C	3513:UNK	N	9.25
1	G	3504:UNK	C	3513:UNK	N	9.25
1	A	3527:UNK	C	3537:UNK	N	8.73
1	C	3527:UNK	C	3537:UNK	N	8.73
1	E	3527:UNK	C	3537:UNK	N	8.73
1	G	3527:UNK	C	3537:UNK	N	8.73
1	A	3544:UNK	C	3549:UNK	N	8.50
1	C	3544:UNK	C	3549:UNK	N	8.50
1	E	3544:UNK	C	3549:UNK	N	8.50
1	G	3544:UNK	C	3549:UNK	N	8.50
1	A	2609:UNK	C	2615:UNK	N	8.30
1	C	2609:UNK	C	2615:UNK	N	8.30
1	E	2609:UNK	C	2615:UNK	N	8.30
1	G	2609:UNK	C	2615:UNK	N	8.30
1	A	3435:UNK	C	3436:UNK	N	7.45
1	C	3435:UNK	C	3436:UNK	N	7.45
1	E	3435:UNK	C	3436:UNK	N	7.45
1	G	3435:UNK	C	3436:UNK	N	7.45
1	A	2460:LEU	C	2463:UNK	N	7.12
1	C	2460:LEU	C	2463:UNK	N	7.12
1	E	2460:LEU	C	2463:UNK	N	7.12
1	G	2460:LEU	C	2463:UNK	N	7.12
1	A	3491:UNK	C	3494:UNK	N	6.52
1	C	3491:UNK	C	3494:UNK	N	6.52

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	3491:UNK	C	3494:UNK	N	6.52
1	G	3491:UNK	C	3494:UNK	N	6.52
1	A	1491:ASN	C	1493:UNK	N	5.91
1	C	1491:ASN	C	1493:UNK	N	5.91
1	E	1491:ASN	C	1493:UNK	N	5.91
1	G	1491:ASN	C	1493:UNK	N	5.91
1	A	3424:UNK	C	3427:UNK	N	4.48
1	C	3424:UNK	C	3427:UNK	N	4.48
1	E	3424:UNK	C	3427:UNK	N	4.48
1	G	3424:UNK	C	3427:UNK	N	4.48
1	A	3454:UNK	C	3457:UNK	N	3.19
1	C	3454:UNK	C	3457:UNK	N	3.19
1	E	3454:UNK	C	3457:UNK	N	3.19
1	G	3454:UNK	C	3457:UNK	N	3.19

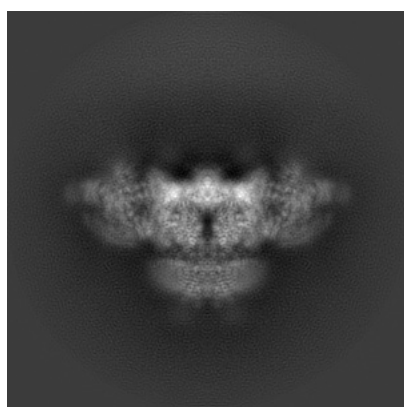
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2807. These allow visual inspection of the internal detail of the map and identification of artifacts.

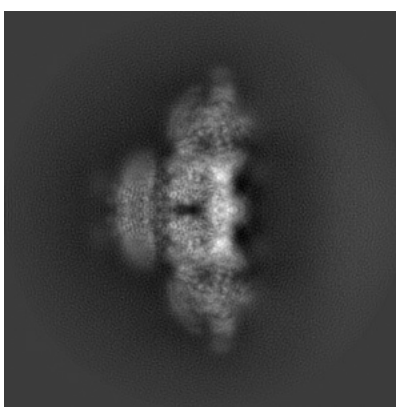
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

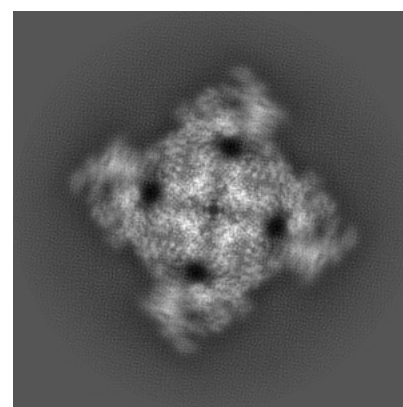
6.1.1 Primary map



X



Y

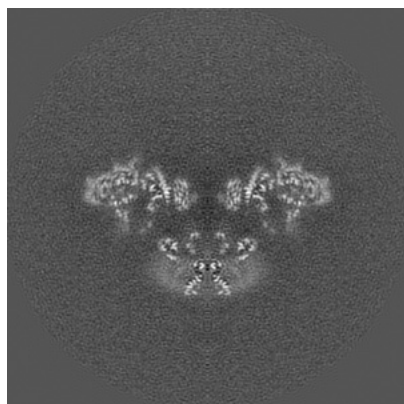


Z

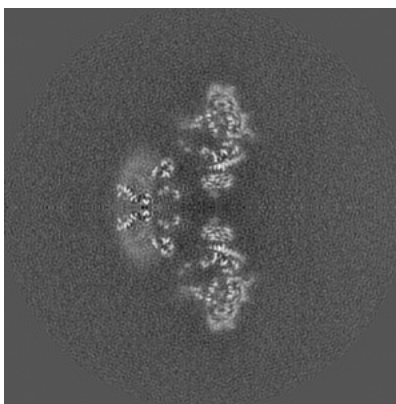
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

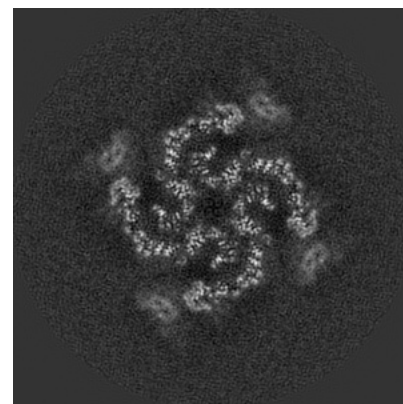
6.2.1 Primary map



X Index: 180



Y Index: 180

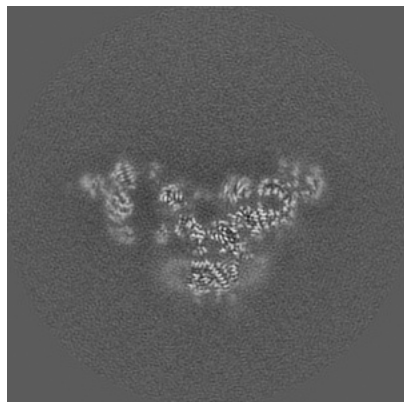


Z Index: 180

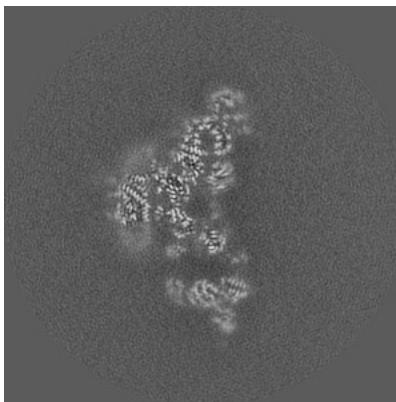
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

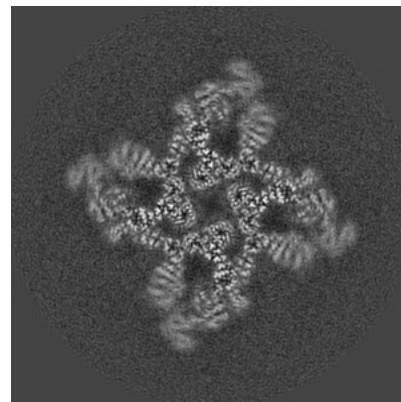
6.3.1 Primary map



X Index: 169



Y Index: 191

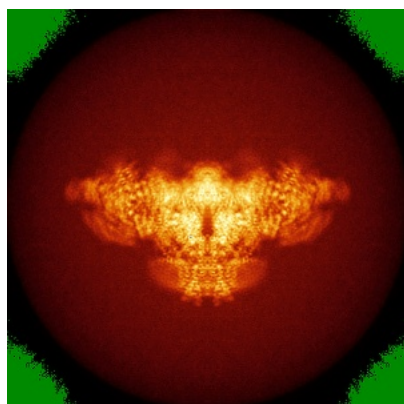


Z Index: 193

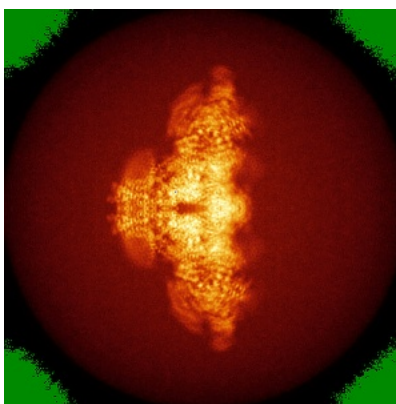
The images above show the largest variance slices of the map in three orthogonal directions.

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

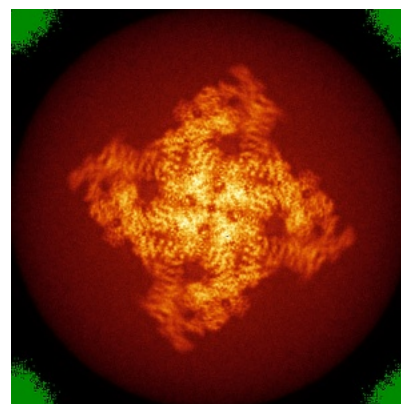
6.4.1 Primary map



X



Y

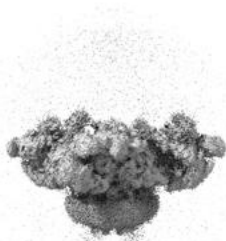


Z

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

6.5 Orthogonal surface views [i](#)

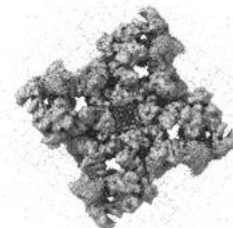
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

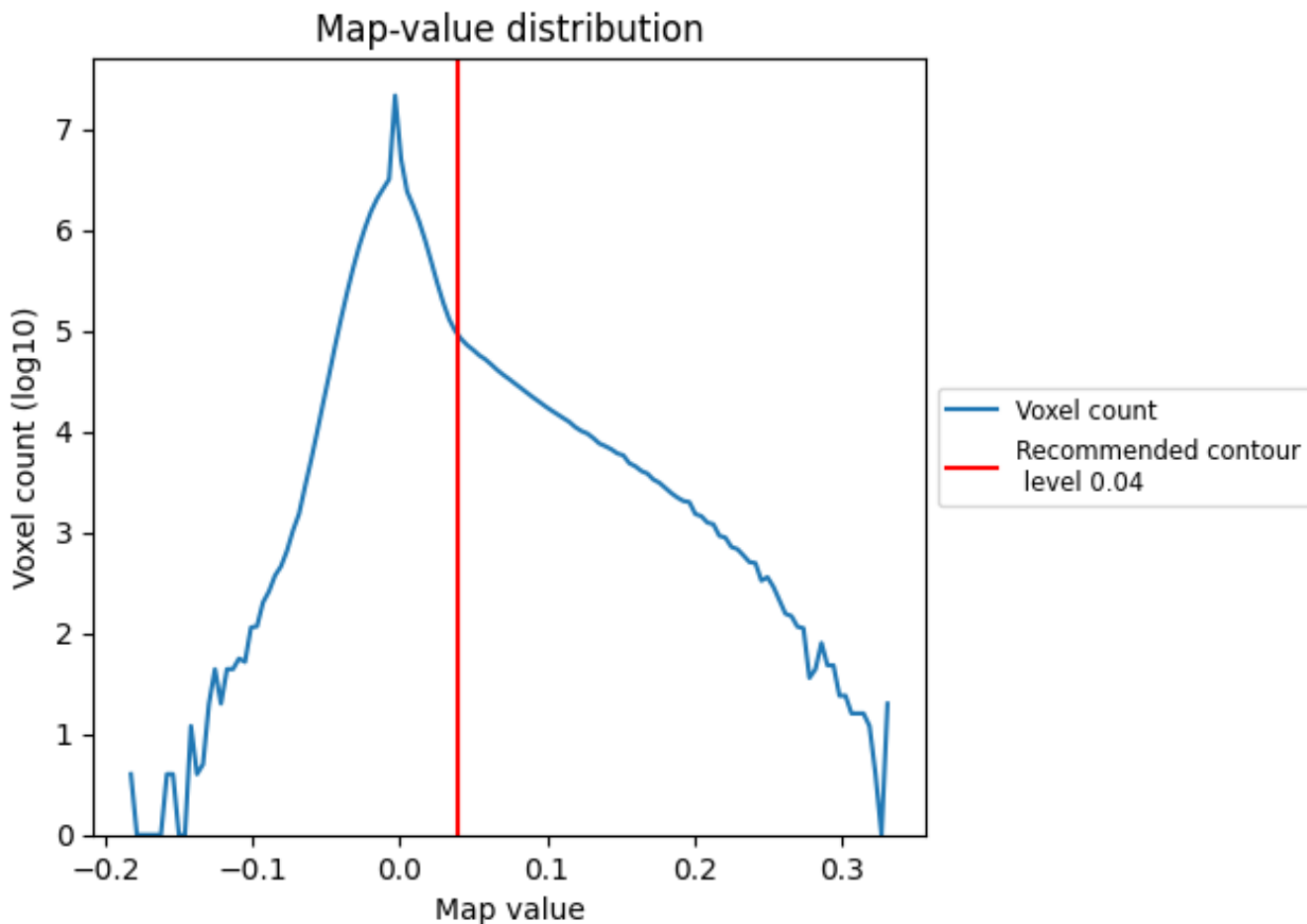
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

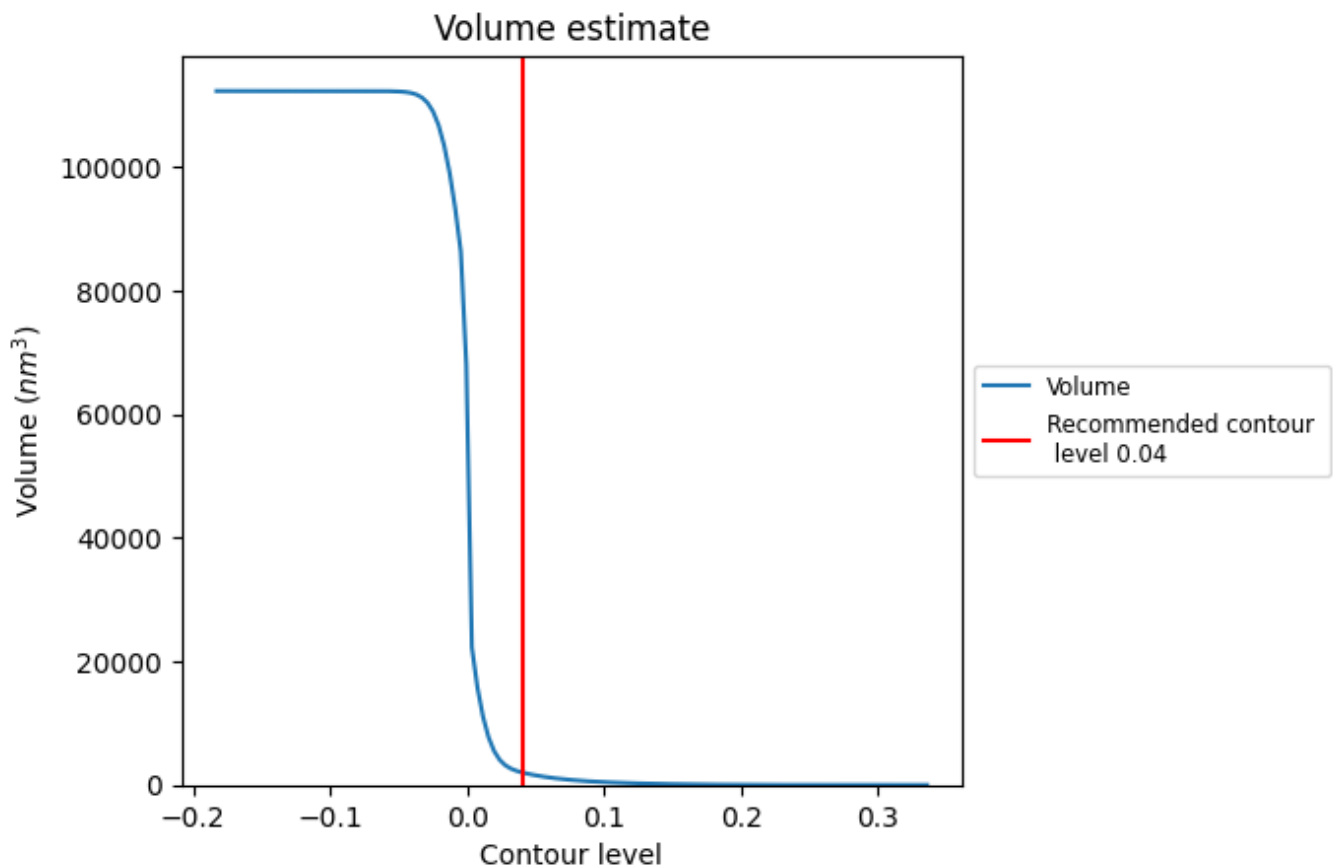
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

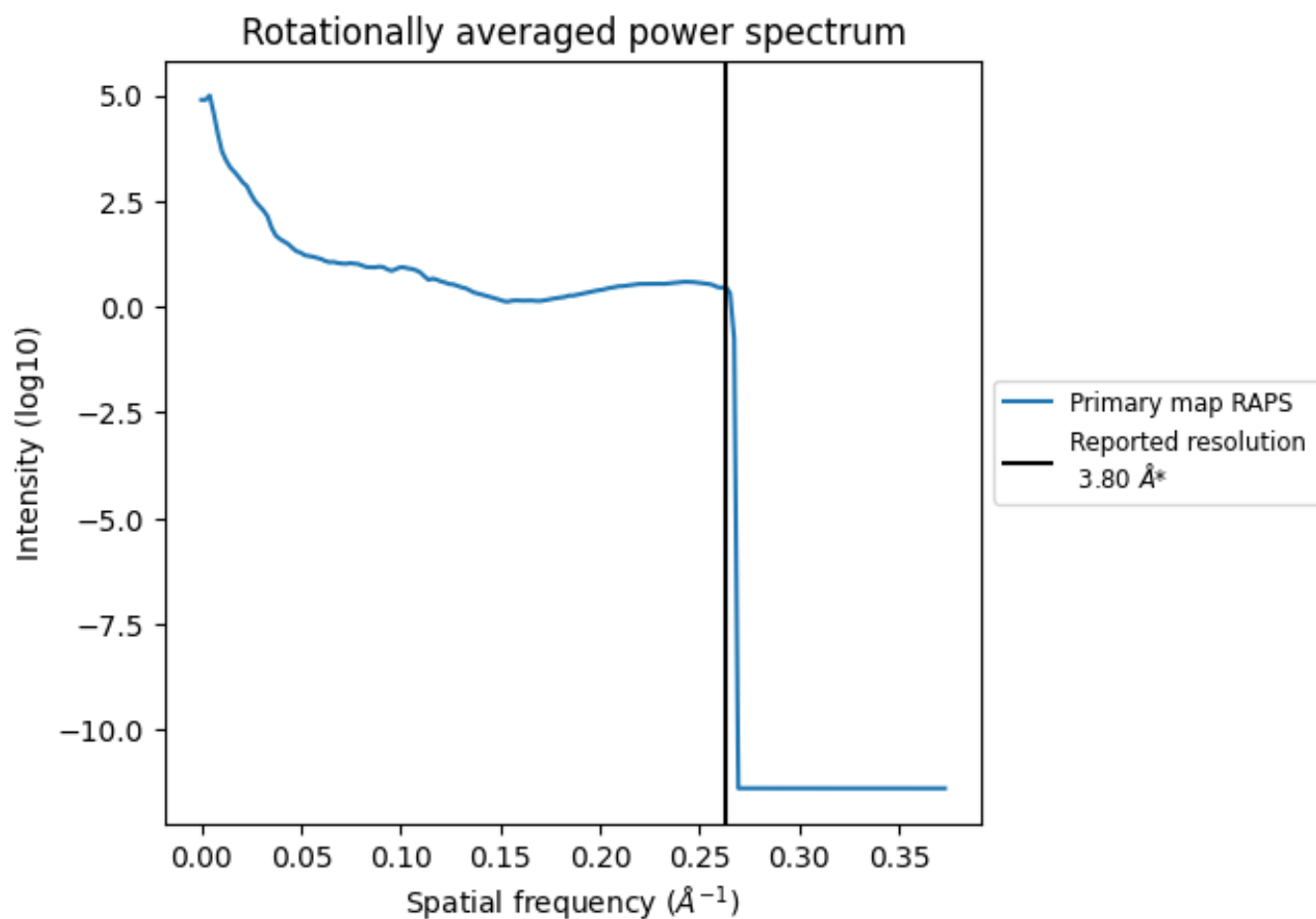
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 2026 nm^3 ; this corresponds to an approximate mass of 1830 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 0.263 Å⁻¹

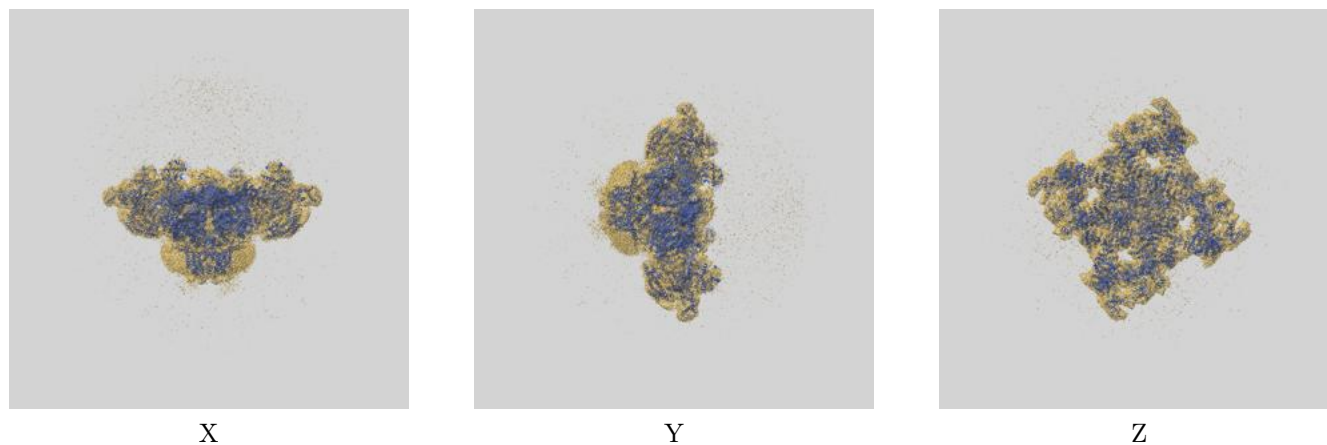
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

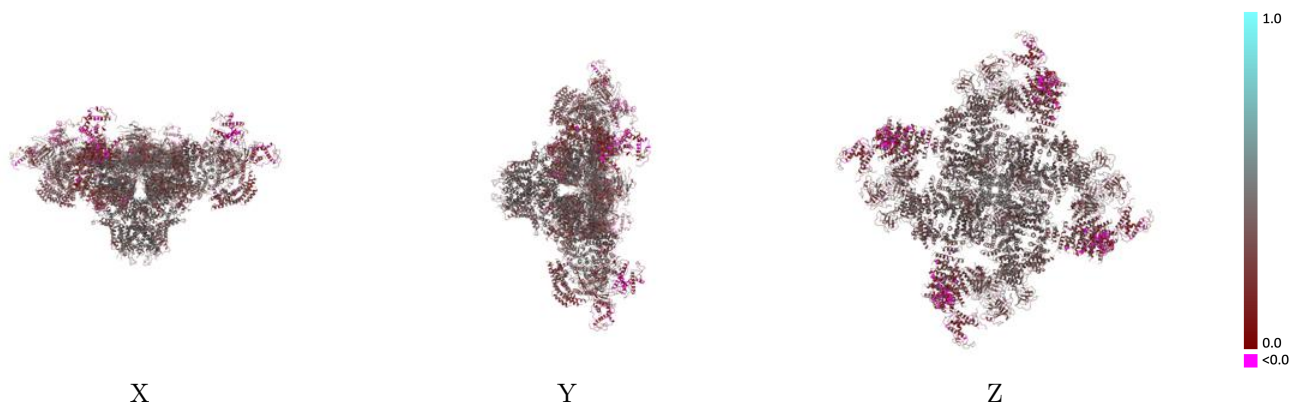
This section contains information regarding the fit between EMDB map EMD-2807 and PDB model 3J8H. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)



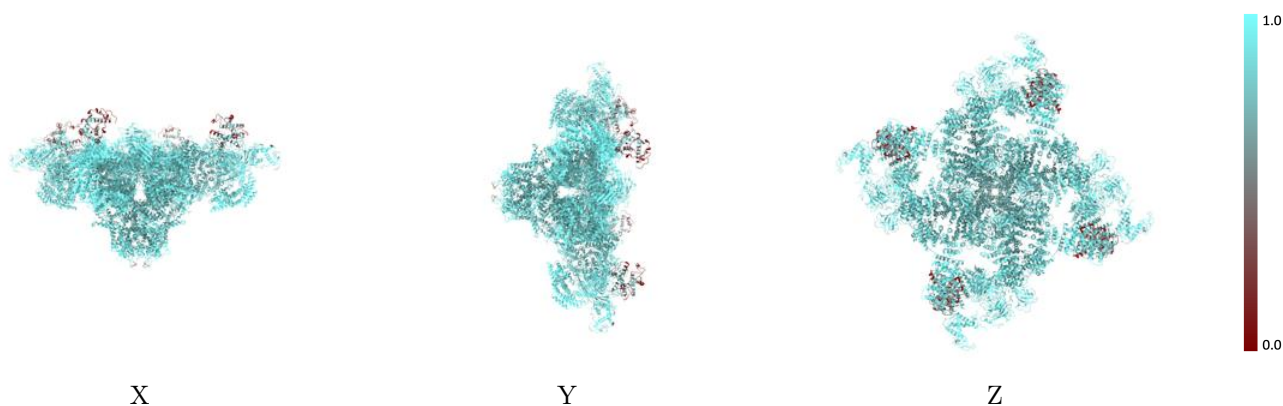
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



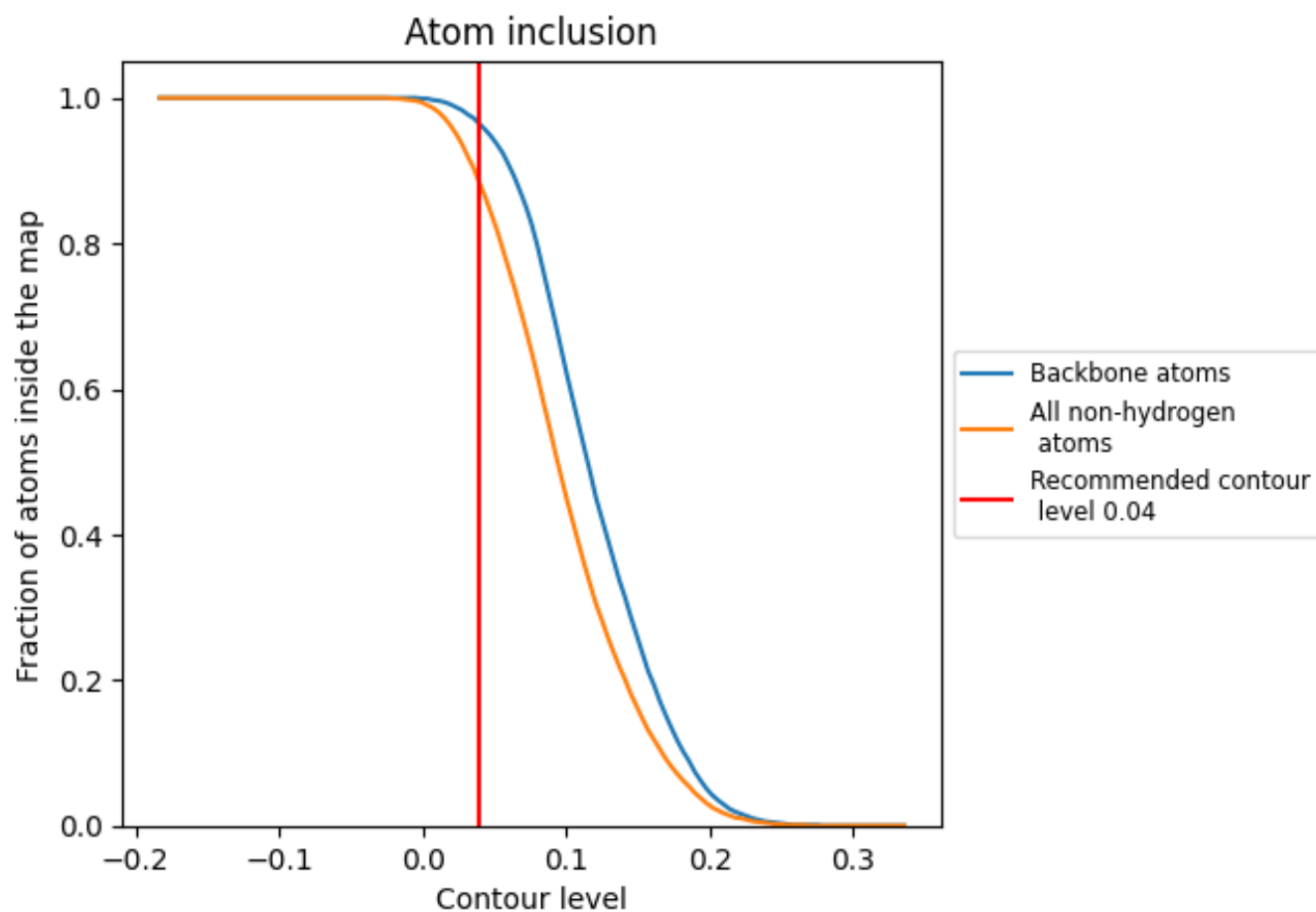
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).



















9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 88% 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 (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8820	 0.3380
A	 0.8810	 0.3380
B	 0.9190	 0.3580
C	 0.8810	 0.3380
D	 0.9190	 0.3570
E	 0.8810	 0.3380
F	 0.9190	 0.3540
G	 0.8810	 0.3380
H	 0.9190	 0.3590

