



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 12:35 PM UTC

PDB ID : 3J8H / pdb_00003j8h
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.

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A user guide is available at

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

The types of validation reports are described at

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

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

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

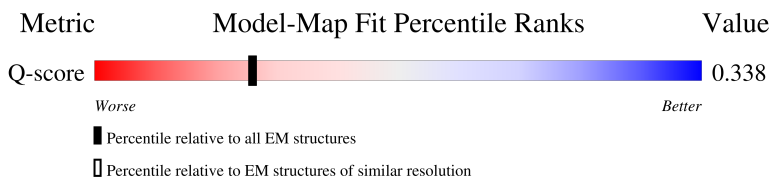
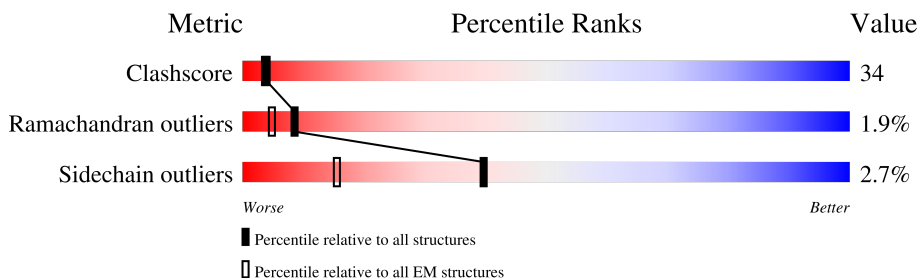
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10198 (3.30 - 4.30)

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	 47% 30% • 20%
1	C	4599	 47% 30% • 20%
1	E	4599	 47% 30% • 20%
1	G	4599	 47% 30% • 20%

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Mol	Chain	Length	Quality of chain
2	B	107	 59% 40% .
2	D	107	 61% 38% .
2	F	107	 59% 40% .
2	H	107	 59% 40% .

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
1	A	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		
1	C	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		
1	E	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		
1	G	3660	Total	C	N	O	S	1	0
			26957	17143	4683	4974	157		

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

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

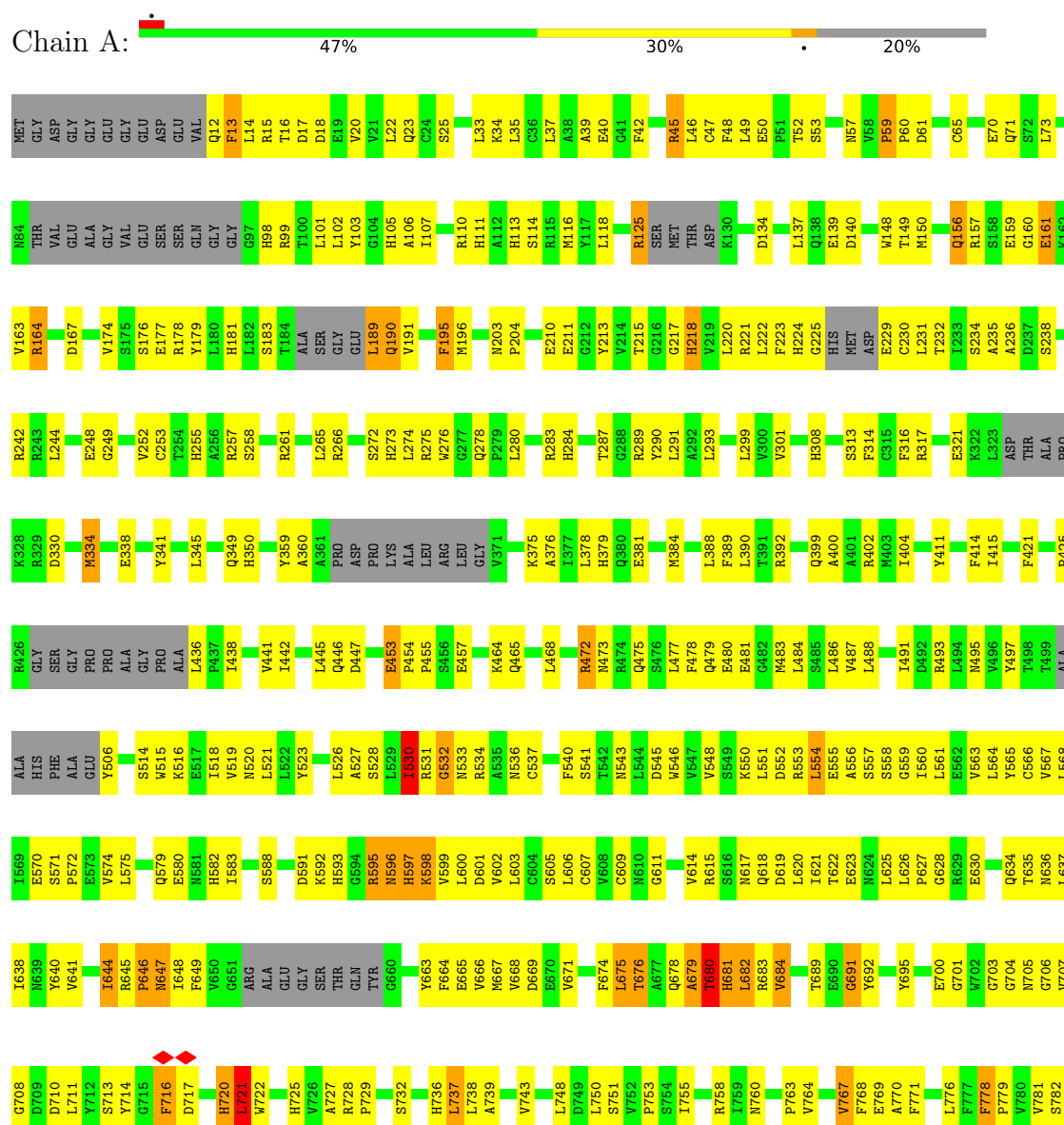
- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

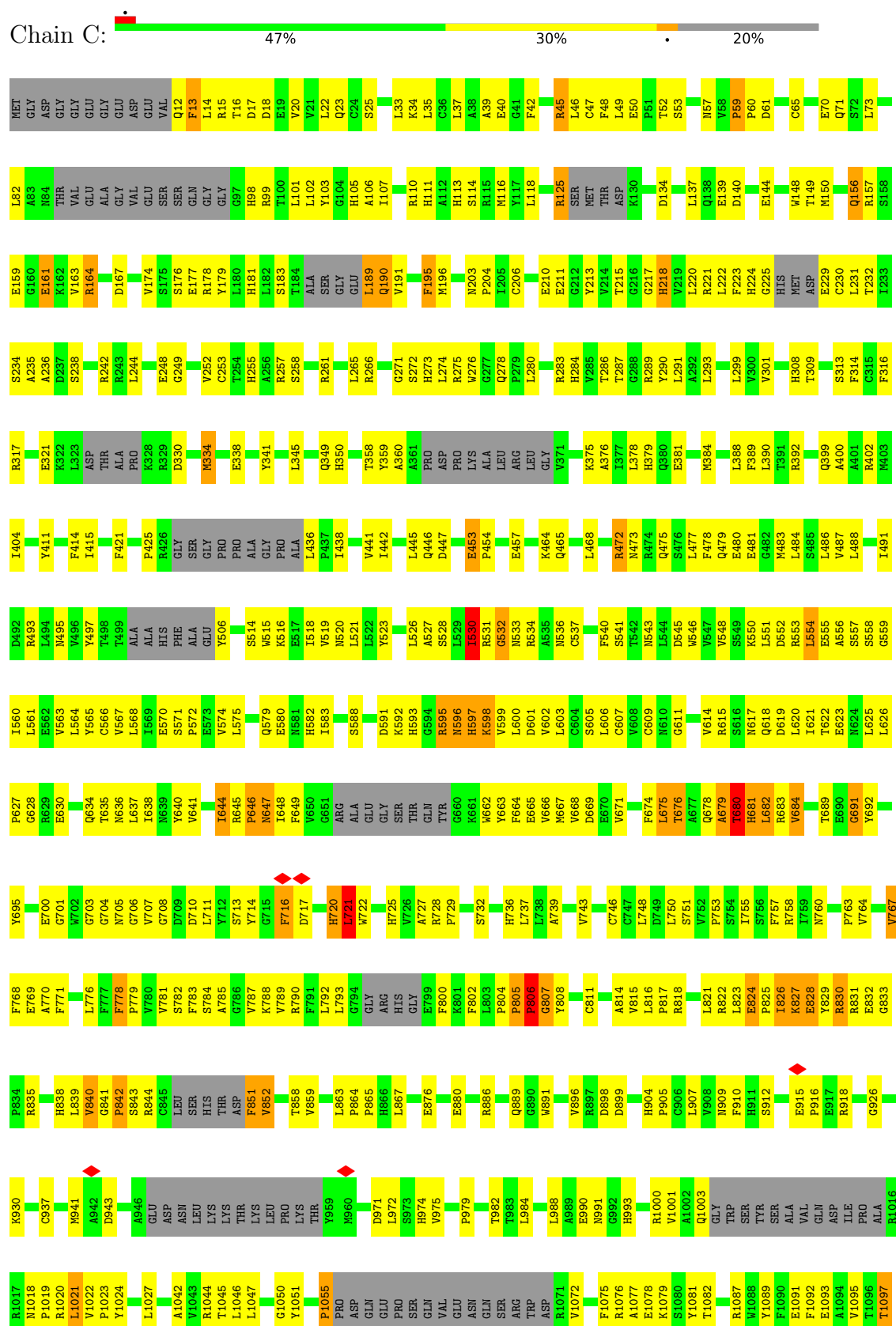




L3805	Y3722	V2937	L2867	R2806	L2743	V2503	ARG	F2337	H2253	L2185	R2104	V1955	GLU
M3806	M3723	T2938	S2868	R2806	M2744	L2604	ARG	A2338	Y2256	M2186	E2108	E1956	GLU
Y3725	A3724	R2939	R2869	I2809	V2745	F2505	ARG	L2339	L2257	N2187	S2157	S1957	GLU
A3726	B3727	H3647	L2871	K2810	L2746	Y2510	PHE	F2340	L2258	K2189	Q2112	F1961	ASP
L3728	A3648	R3648	L2872	E2811	L2747	GLY	HIS	V2341	E2259	N2190	S2113	A1962	GLU
M3729	A3649	L3649	L2873	E2811	L2748	ILE	GLY	N2342	N2260	F2191	L2116	E1963	GLU
C3650	A3650	C3650	A2874	K2814	E2749	GLU	GLU	Q2343	L2283	Y2192	L2123	R1964	GLU
N3651	A3730	N3651	A2875	M2816	L2750	N2514	PRO	V2346	GLY	P2195	L2124	Y1965	GLU
Y3657	A2875	A2875	A2876	M2816	L2751	F2517	PRO	N2349	LEU	N2196	L2125	V1966	LYS
I3662	Q3733	I3662	Q2877	A2818	D2752	V2521	GLU	A2350	GLY	L2197	H2126	V1966	GLU
H3667	F3828	H3667	F2880	A2818	S2753	L2522	ASN	N2351	GLN	R2199	Q2127	L1969	ASP
S3668	F3829	S3668	N2861	A2819	F2754	ASP	ARG	N2351	GLY	A2200	D2128	N1972	GLU
F3669	F3829	F3669	Y2882	H2820	N2755	V2525	VAL	V2354	SER	L2201	Y2129	S1975	GLU
E3670	S3732	E3670	Y2882	T2822	N2756	P2529	HIS	R2355	T2271	M2203	E2133	S2058	LYS
D3671	C3733	D3671	K2839	L2823	K2757	P2529	LEU	L2357	P2272	H2204	L2134	S2058	LYS
A3672	HIS	A3672	F2758	L2823	F2758	A2533	GLU	I2358	V2275	H2204	L2134	S2058	LYS
R3672	LEU	R3672	A2759	L2823	A2759	A2533	GLU	R2359	A2276	T2206	L2136	S2061	ASP
M3673	LEU	M3673	E2760	K2825	E2760	L2537	GLU	K2360	A2277	M2207	R2137	R2062	ALA
L3674	GLU	L3674	Y2761	A2826	T2762	THR	THR	P2361	A2278	M2208	L2138	L2063	GLU
D3675	ALA	D3675	L2894	A2826	L2763	ALA	ALA	E2362	S2279	E2209	P2139	L2066	LYS
L2894	GLU	L2894	E2827	E2827	E2764	THR	THR	CYS	V2280	V2210	A2141	L2066	GLU
E2895	GLU	E2895	E2827	E2827	K2765	THR	THR	PHE	T2281	M2211	A2141	L2066	GLU
E2896	GLU	E2896	G2829	G2829	F2768	THR	THR	GLY	D2282	V2212	Y2142	T2069	GLU
K2897	GLU	K2897	E2830	E2830	D2769	THR	THR	GLY	A2437	M2213	T2143	V2070	GLU
G2898	GLU	G2898	GLU	GLU	K2770	THR	THR	GLY	N2283	V2214	T2144	R2071	ALA
Q2900	GLU	Q2900	ARG	ARG	T2544	THR	THR	GLY	E2285	L2215	S2145	L2072	PRO
T2901	GLU	T2901	THR	THR	A2547	THR	THR	GLY	L2286	G2216	P2146	VAL	GLU
H2902	GLU	H2902	GLU	GLU	Q2772	THR	THR	GLY	V2289	GLY	V2149	LYS	GLY
L2904	GLU	L2904	LYS	LYS	N2773	L2550	ILE	GLY	S2300	GLU	E2150	LYS	LYS
L2905	GLU	L2905	LYS	LYS	N2774	R2551	GLN	GLY	Y2301	THR	D2151	GLU	GLU
L2906	GLU	L2906	THR	THR	W2775	R2552	ALA	SER	L2307	LYS	T2152	ASP	ASP
L2907	GLU	L2907	ARG	ARG	K2776	L2553	GLY	GLY	GLN	ILE	L2155	PRO	GLU
L2908	GLU	L2908	LYS	LYS	Y2777	L2554	LYS	G2375	GLN	ARG	L2156	GLU	GLU
L2909	GLU	L2909	ILE	ILE	G2778	C2555	GLY	L2376	CYS	PHE	L2156	GLU	GLU
L2910	GLU	L2910	GLN	GLN	E2779	L2556	GLY	L2377	PRO	ARG	L2159	GLU	GLU
L2911	GLU	L2911	THR	THR	N2780	L2557	THR	I2380	MET	THR	G2160	LEU	LEU
L2912	GLU	L2912	ALA	ALA	Y2781	L2559	ALA	A2383	LEU	GLY	Q2161	PRO	ALA
L2913	GLU	L2913	GLN	GLN	K2782	P2560	LYS	L2384	ALA	GLY	T2162	ALA	L1931
L2914	GLU	L2914	THR	THR	E2783	X2591	GLY	L2386	LYS	LYS	R2163	GLU	P1932
L2915	GLU	L2915	THR	THR	E2784	X2595	GLY	SER	GLY	PRO	S2164	LYS	L1937
L2916	GLU	L2916	THR	THR	L2785	X2595	GLY	GLU	TVR	PRO	L2167	LYS	Q1938
L2917	GLU	L2917	THR	THR	K2786	X2625	GLY	ASP	ASP	GLN	Y2168	PRO	M1939
L2918	GLU	L2918	THR	THR	T2787	X2625	GLY	PRO	ASP	GLN	G2240	GLN	C1940
L2919	GLU	L2919	THR	THR	H2788	X2712	GLY	ALA	ILE	GLY	GLN	S2093	L2094
L2920	GLU	L2920	THR	THR	P2789	N2734	GLY	ALA	GLY	GLY	GLY	E2095	E1944
L2921	GLU	L2921	THR	THR	W2790	F2735	GLY	ASP	ASN	TRP	PRO	E2096	Y1945
L2922	GLU	L2922	THR	THR	L2791	F2735	GLY	PRO	P2325	Q2245	Q2173	L2097	F1946
L2923	GLU	L2923	THR	THR	R2792	R2738	GLY	VAL	C2326	Q2247	Q2178	V2098	C1947
L2924	GLU	L2924	THR	THR	P2793	P2739	VAL	ARG	E2329	Q2247	Q2178	S2099	D1948
L2925	GLU	L2925	THR	THR	Y2794	V2740	ARG	ARG	S2501	S2249	L2182	H2100	Q1952
L2926	GLU	L2926	THR	THR	K2795	E2741	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2927	GLU	L2927	THR	THR	T2796	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2928	GLU	L2928	THR	THR	T2797	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2929	GLU	L2929	THR	THR	S2798	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2930	GLU	L2930	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2931	GLU	L2931	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2932	GLU	L2932	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2933	GLU	L2933	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2934	GLU	L2934	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2935	GLU	L2935	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
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L2937	GLU	L2937	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2938	GLU	L2938	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2939	GLU	L2939	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2940	GLU	L2940	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2941	GLU	L2941	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2942	GLU	L2942	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2943	GLU	L2943	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2944	GLU	L2944	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2945	GLU	L2945	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2946	GLU	L2946	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2947	GLU	L2947	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2948	GLU	L2948	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2949	GLU	L2949	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2950	GLU	L2950	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2951	GLU	L2951	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
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L2953	GLU	L2953	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
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L2956	GLU	L2956	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2957	GLU	L2957	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2958	GLU	L2958	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2959	GLU	L2959	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
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L2970	GLU	L2970	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2971	GLU	L2971	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2972	GLU	L2972	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2973	GLU	L2973	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2974	GLU	L2974	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2975	GLU	L2975	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2976	GLU	L2976	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2977	GLU	L2977	THR	THR	S2799	T2742	ARG	ASP	Y2331	S2249	L2182	H2100	Q1952
L2978	GLU	L2978	THR	THR	S2799	T274							

H4978	E4900	K4821	E4735	V4666	GLU	GLY	LEU	GLU	ALA	GLY	E4191	Q4102	V4025	V3957	F3880
T4979	E4901	T4822	R4736	P4667	ALA	GLY	GLY	GLN	LEU	ALA	R4192	P4106	M4026	A3958	T3881
L4980	E4902	L4823	I4737	R4673	PRO	ASP	PRO	PRO	LEU	GLU	T4193	E4107	L4028	V3961	Q3852
T4925	D4903	R4824	GLU	E4674	GLY	GLY	GLY	ALA	TRP	ALA	Y4194	E4108	S4029	F3962	D3883
S4828	P4904	T4825	GLY	E4675	PRO	ASP	ASP	PRO	VAL	ALA	F4196	Q4109	L4030	N3963	L3884
S4829	D4907	S4828	PRO	E4676	PRO	THR	THR	GLY	VAL	ALA	T4197	E4110	L4031	F3886	F3885
S4830	E4908	S4829	ALA	L4677	LYS	THR	THR	GLY	ALA	GLY	W4205	E4111	G4032	F3887	F3887
T4831	E4909	E4880	GLY	K4680	PRO	PRO	PRO	ASP	ARG	ALA	W4206	L4112	G4033	E3967	L3888
T4832	E4910	L4681	ALA	E4681	PRO	ALA	ALA	ALA	ARG	GLY	Y4208	L4113	N4035	Y3968	Q3889
L4337	E4911	E4682	LEU	E4682	PRO	GLY	GLY	ASP	GLY	GLY	P4208	S4113	V4036	L3969	L3890
W4838	E4912	E4683	GLY	E4683	PRO	PRO	PRO	GLY	ALA	ALA	K4214	N4120	W4036	Q3970	L3891
W4839	E4913	E4684	THR	E4684	PRO	THR	THR	GLY	GLY	GLY	K4215	I4123	G4038	G3971	C3992
G4842	E4914	D4685	ALA	D4685	PRO	ALA	ALA	GLY	ALA	THR	F4217	I4123	M4039	P3972	E3893
L4843	E4915	E4686	GLY	E4686	PRO	GLY	GLY	GLY	GLY	VAL	T4218	R4131	I4040	C3973	N3897
W4846	E4916	E4687	GLY	E4687	LYS	LYS	LYS	GLY	ALA	ALA	F4219	PHE	A4041	T3974	D3898
Y4849	E4917	E4688	GLY	E4688	GLY	GLY	GLY	GLY	ALA	ALA	F4220	GLN	R4042	G3975	F3899
L4850	E4918	E4689	GLY	E4689	GLY	GLY	GLY	GLY	ALA	ALA	W4221	GLY	Q4043	N3976	F3899
Y4851	E4919	E4690	GLY	E4690	GLY	GLY	GLY	GLY	ALA	ALA	W4222	P4135	M4044	Q3977	Q3900
T4852	E4920	E4691	GLY	E4691	GLY	GLY	GLY	GLY	TRP	ALA	W4223	GLY	S4051	L3901	Q3900
W4853	E4921	E4692	GLY	E4692	GLY	GLY	GLY	GLY	ALA	ALA	E4224	D4138	S4052	T3902	R3902
E4861	E4922	E4693	GLY	E4693	GLY	GLY	GLY	GLY	ALA	ALA	E4225	E4145	S4053	L3903	L3903
F4862	E4923	E4694	GLY	E4694	GLY	GLY	GLY	GLY	ALA	ALA	W4226	F4141	N4054	R3904	R3904
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S4866	E4925	E4696	GLY	E4696	GLY	GLY	GLY	GLY	ALA	ALA	E4228	W4145	E4056	Q3906	Q3906
E4867	E4926	E4697	GLY	E4697	GLY	GLY	GLY	GLY	ALA	ALA	E4229	V4154	M4057	T3907	T3907
E4868	E4927	E4698	GLY	E4698	GLY	GLY	GLY	GLY	ALA	ALA	E4230	P4155	I4058	G3908	G3908
E4869	E4928	E4699	GLY	E4699	GLY	GLY	GLY	GLY	ALA	ALA	E4231	E4156	L4059	N3909	N3909
E4870	E4929	E4700	GLY	E4700	GLY	GLY	GLY	GLY	ALA	ALA	E4232	H4157	K4060	T3915	T3915
E4871	E4930	E4701	GLY	E4701	GLY	GLY	GLY	GLY	ALA	ALA	E4233	E4158	F4061	F3992	F3992
E4872	E4931	E4702	GLY	E4702	GLY	GLY	GLY	GLY	ALA	ALA	E4234	V4154	L4062	L3993	L3993
E4873	E4932	E4703	GLY	E4703	GLY	GLY	GLY	GLY	ALA	ALA	E4235	E4156	L4063	H3994	H3994
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E4876	E4935	E4706	GLY	E4706	GLY	GLY	GLY	GLY	ALA	ALA	E4238	E4159	D4063	R3925	R3925
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E4878	E4937	E4708	GLY	E4708	GLY	GLY	GLY	GLY	ALA	ALA	E4240	E4161	PHE	E3927	E3927
E4879	E4938	E4709	GLY	E4709	GLY	GLY	GLY	GLY	ALA	ALA	E4241	E4162	L4064	K4001	K4001
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E4902	E4961	E4732	GLY	E4732	GLY	GLY	GLY	GLY	ALA	ALA	E4264	E4185	L4087	R4021	R4021
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E4907	E4966	E4737	GLY	E4737	GLY	GLY	GLY	GLY	ALA	ALA	E4269	E4190	L4092	Q4025	Q4025
E4908	E4967	E4738	GLY	E4738	GLY	GLY	GLY	GLY	ALA	ALA	E4270	E4191	L4093	Q4026	Q4026
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E4910	E4969	E4740	GLY	E4740	GLY	GLY	GLY	GLY	ALA	ALA	E4272	E4193	L4095	Q4028	Q4028
E4911	E4970	E4741	GLY	E4741	GLY	GLY	GLY	GLY	ALA	ALA	E4273	E4194	L4096	Q4029	Q4029
E4912	E4971	E4742	GLY	E4742	GLY	GLY	GLY	GLY	ALA	ALA	E4274	E4195	L4097	Q4030	Q4030
E4913	E4972	E4743	GLY	E4743	GLY	GLY	GLY	GLY	ALA	ALA	E4275	E4196	L4098	Q4031	Q4031
E4914	E4973	E4744	GLY	E4744	GLY	GLY	GLY	GLY	ALA	ALA	E4276	E4197	L4099	Q4032	Q4032
E4915	E4974	E4745	GLY	E4745	GLY	GLY	GLY	GLY	ALA	ALA	E4277	E4198	L4100	Q4033	Q4033
E4916	E4975	E4746	GLY	E4746	GLY	GLY	GLY	GLY	ALA	ALA	E4278	E4199	L4101	Q4034	Q4034
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E4919	E4978	E4749	GLY	E4749	GLY	GLY	GLY	GLY	ALA	ALA	E4281	E4202	L4104	Q4037	Q4037
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E4924	E4983	E4754	GLY	E4754	GLY	GLY	GLY	GLY	ALA	ALA	E4286	E4207	L4109	Q4042	Q4042
E4925	E4984	E4755	GLY	E4755	GLY	GLY	GLY	GLY	ALA	ALA	E4287	E4208	L4110	Q4043	Q4043
E4926	E4985	E4756	GLY	E4756	GLY	GLY	GLY	GLY	ALA	ALA	E4288	E4209	L4111	Q4044	Q4044
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E4929	E4988	E4759	GLY	E4759	GLY	GLY	GLY	GLY	ALA	ALA	E4291	E4212	L4114	Q4047	Q4047
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E4931	E4990	E4761	GLY	E4761	GLY	GLY	GLY	GLY	ALA	ALA	E4293	E4214	L4116	Q4049	Q4049
E4932	E4991	E4762	GLY	E4762	GLY	GLY	GLY	GLY	ALA	ALA	E4294	E4215	L4117	Q4050	Q4050
E4933	E4992	E4763	GLY	E4763	GLY	GLY	GLY	GLY	ALA	ALA	E4295	E4216	L4118	Q	

• Molecule 1: Ryanodine receptor 1





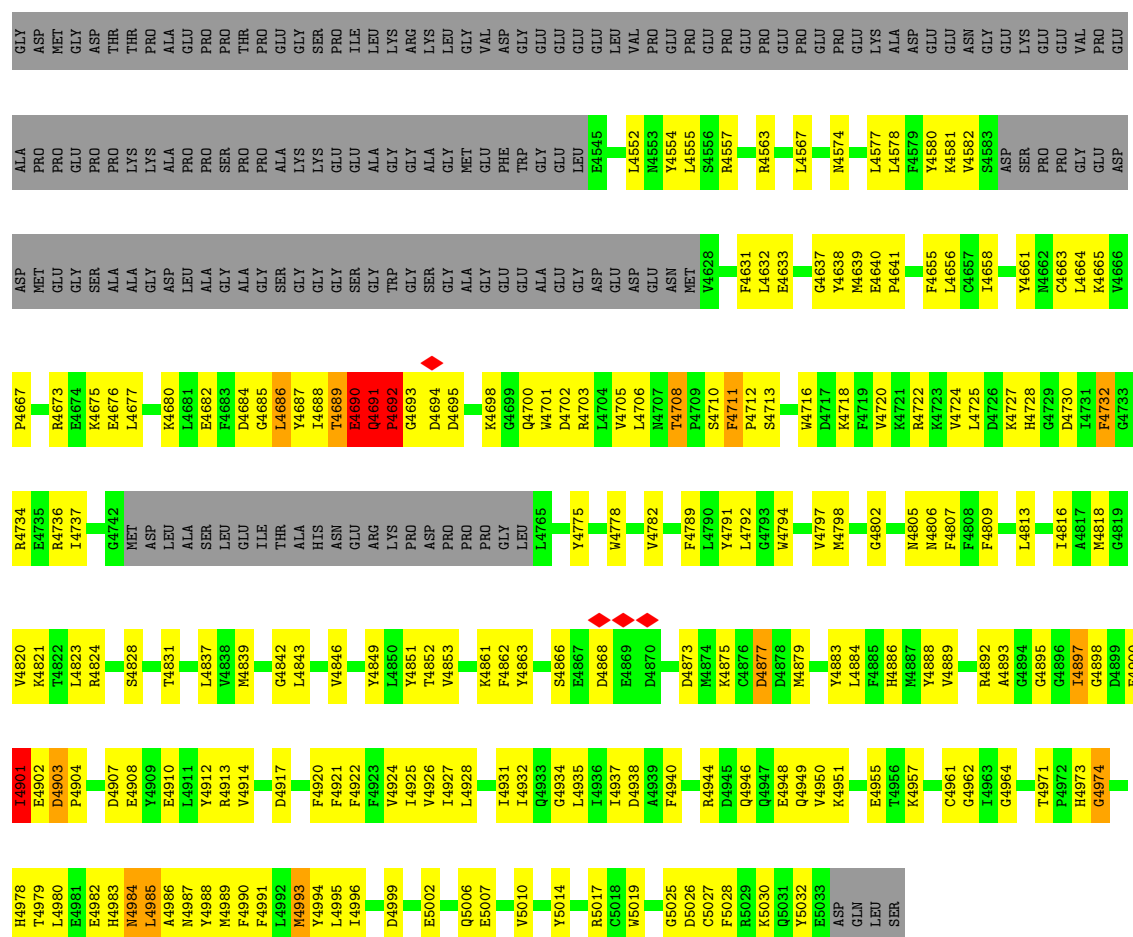
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F3933	Y3934	Y3935	Y3936	Y3937	S3938	G3939	K3940	D3941	V3942	I3943	F3951	A3954	M3955	S3956	V3957	A3958	V3961	F3962	N3963	T3966	E3967	Y3968	L3969	Q3970	G3971	R3972	C3973	C3974	G3975	N3976	Q3977	L3980	S3983	R3984	L3985	A3988	V3989	V3990	G3991	F3992	L3993	H3994	V3995	F3996	F4061	F4062	M3999	M4000	K4001	K4002	L4003	A4004							
Q4005	D4006	S4007	Q4008	Q4009	G4010	E4011	L4012	L4013	L4017	D4083	P4084	R4085	Q4086	L4019	Q4020	K4021	V4024	V4025	M4026	L4027	L4028	S4029	E4107	F4107	L4108	Q4109	F4110	L4111	V4035	L4112	S4113	M4039	L4040	R4042	Q4043	M4044	M4047	L4048	V4049	E4050	S4051	S4052	S4053	M4054	V4055	E4056	M4057	L4058	L4059	F3996	F4061	F4062	D4063	M4064	PHE	L4159	L4160	L4161	LEU
GLY	THR	VAL	ILE	ASN	ARG	GLN	ASN	GLY	LYS	VAL	MET	ALA	D3877	D3878	E3879	F3880	T3881	Q3882	D3883	L3884	F3885	R3886	F3887	L3888	Q3889	L3890	L3891	L3892	G3893	N3897	D3898	F3899	Q3900	N3901	Y3902	L3903	R3904	T3905	Q3906	T3907	G3908	N3909	I3915	I3916	T3919	V3920	L3924	R3925	L3926	G3927	E3928	S3929	I3930	ASP					
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LYS	GLY	TYR	PRO	ASP	ILE	GLY	TRP	ASN	P2325	C2326	VAL	ARG	ARG	ASP	ARG	ARG	ARG	ARG	ARG	PRO	PRO	GLU	GLU	ASN	ARG	VAL	HIS	LEU	G2419	W2423	D2431	G2434	R2435	C2436	L2437	PRO	GLU	MET	HIS	ILE	GLN	ALA	GLY	L2376	L2377	I2380	A2383	I2384	R2385										



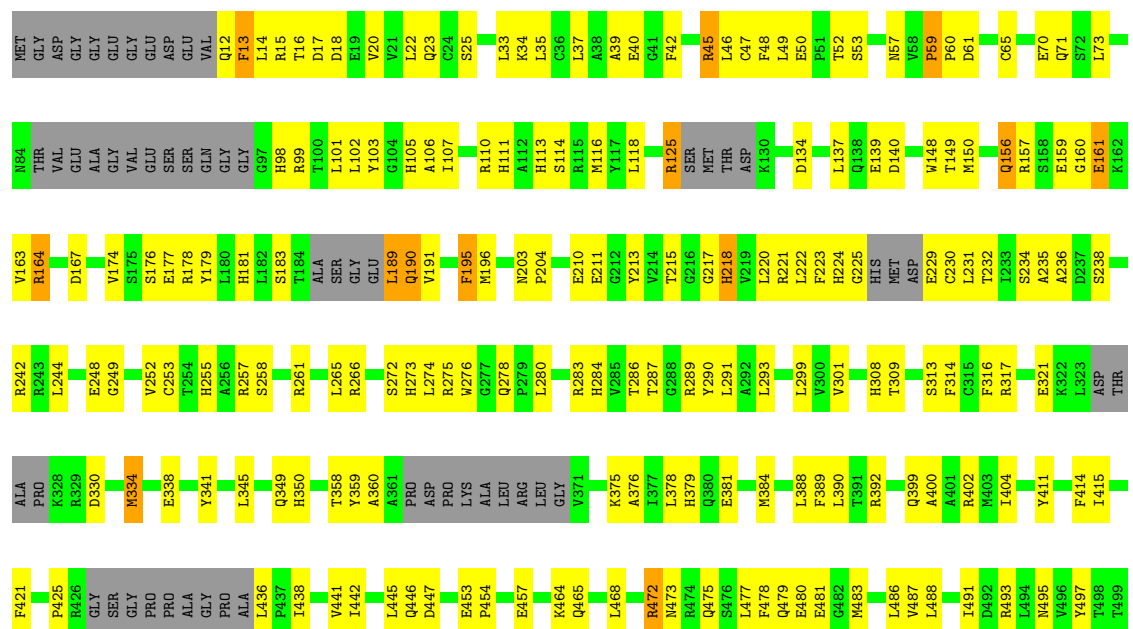








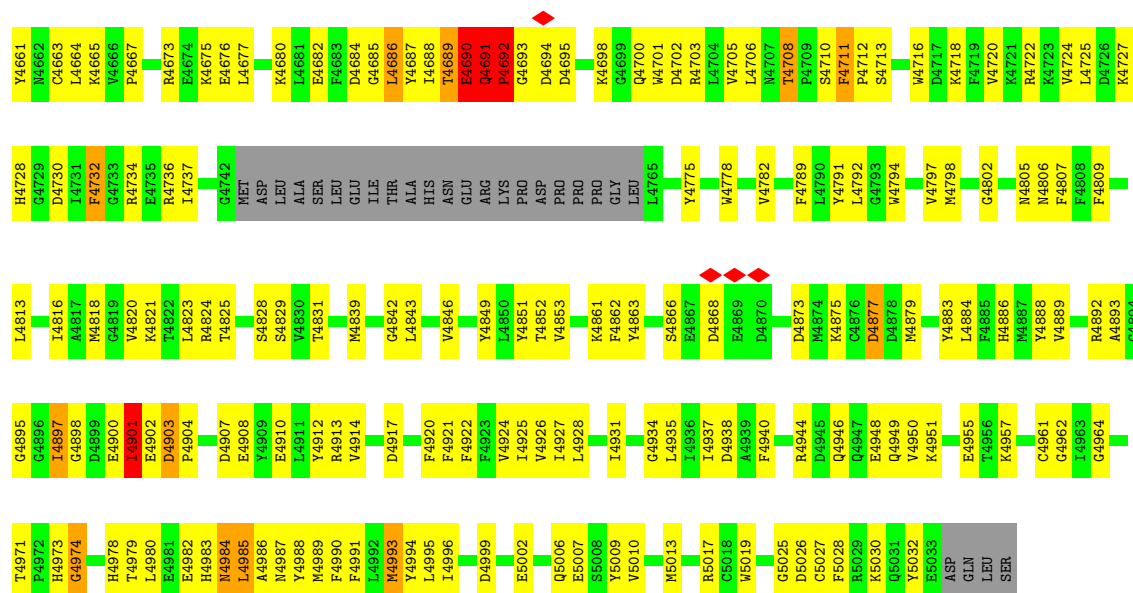
• Molecule 1: Ryanodine receptor 1





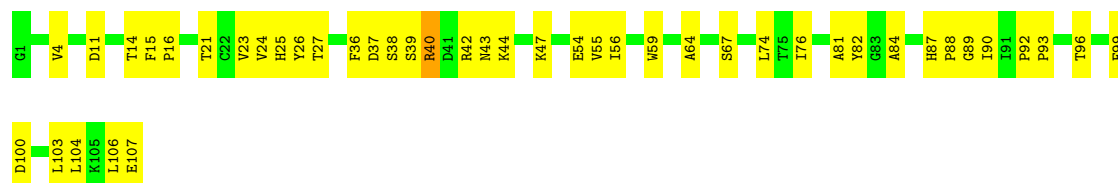






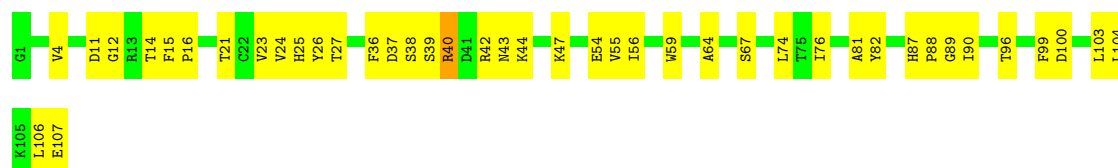
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

Chain B: 59% 40%



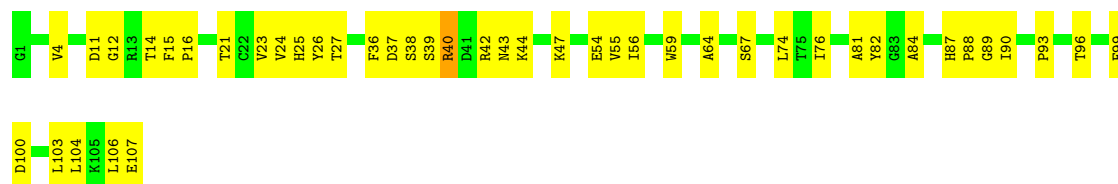
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

Chain D: 61% 38%



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

Chain F: 59% 40%



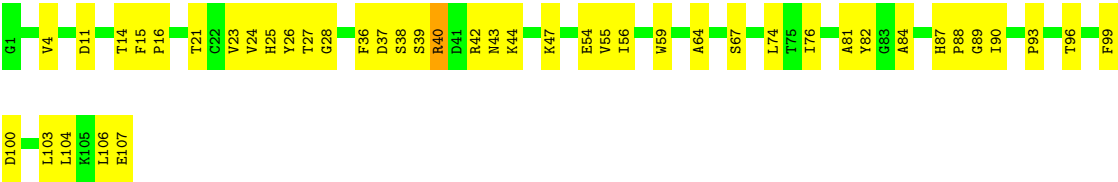
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

Chain H:

59%

40%

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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

5.1 Standard geometry

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	0.44	6/24616 (0.0%)	0.92	89/33295 (0.3%)
1	C	0.44	6/24616 (0.0%)	0.92	89/33295 (0.3%)
1	E	0.44	6/24616 (0.0%)	0.92	89/33295 (0.3%)
1	G	0.44	6/24616 (0.0%)	0.92	89/33295 (0.3%)
2	B	0.33	0/851	0.81	0/1146
2	D	0.33	0/851	0.81	0/1146
2	F	0.33	0/851	0.81	0/1146
2	H	0.33	0/851	0.81	0/1146
All	All	0.43	24/101868 (0.0%)	0.92	356/137764 (0.3%)

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 (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	679	ALA	C-O	6.54	1.31	1.23
1	C	679	ALA	C-O	6.54	1.31	1.23
1	E	679	ALA	C-O	6.54	1.31	1.23
1	G	679	ALA	C-O	6.54	1.31	1.23
1	A	4903	ASP	C-N	6.10	1.40	1.33
1	C	4903	ASP	C-N	6.10	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4903	ASP	C-N	6.10	1.40	1.33
1	G	4903	ASP	C-N	6.10	1.40	1.33
1	A	1544	PRO	N-CD	5.27	1.55	1.47
1	C	1544	PRO	N-CD	5.27	1.55	1.47
1	E	1544	PRO	N-CD	5.27	1.55	1.47
1	G	1544	PRO	N-CD	5.27	1.55	1.47
1	A	1763	PRO	N-CD	5.12	1.54	1.47
1	C	1763	PRO	N-CD	5.12	1.54	1.47
1	E	1763	PRO	N-CD	5.12	1.54	1.47
1	G	1763	PRO	N-CD	5.12	1.54	1.47
1	A	1762	LEU	C-N	5.10	1.41	1.34
1	C	1762	LEU	C-N	5.10	1.41	1.34
1	E	1762	LEU	C-N	5.10	1.41	1.34
1	G	1762	LEU	C-N	5.10	1.41	1.34
1	A	1543	GLU	C-N	5.08	1.41	1.34
1	C	1543	GLU	C-N	5.08	1.41	1.34
1	E	1543	GLU	C-N	5.08	1.41	1.34
1	G	1543	GLU	C-N	5.08	1.41	1.34

All (356) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	680	THR	N-CA-C	-15.19	89.69	110.35
1	C	680	THR	N-CA-C	-15.19	89.69	110.35
1	E	680	THR	N-CA-C	-15.19	89.69	110.35
1	G	680	THR	N-CA-C	-15.19	89.69	110.35
1	A	1764	GLY	N-CA-C	15.13	149.05	113.18
1	C	1764	GLY	N-CA-C	15.13	149.05	113.18
1	E	1764	GLY	N-CA-C	15.13	149.05	113.18
1	G	1764	GLY	N-CA-C	15.13	149.05	113.18
1	A	1765	VAL	N-CA-CB	-12.72	90.23	111.23
1	C	1765	VAL	N-CA-CB	-12.72	90.23	111.23
1	E	1765	VAL	N-CA-CB	-12.72	90.23	111.23
1	G	1765	VAL	N-CA-CB	-12.72	90.23	111.23
1	A	1964	ARG	N-CA-C	12.03	124.13	111.14
1	C	1964	ARG	N-CA-C	12.03	124.13	111.14
1	E	1964	ARG	N-CA-C	12.03	124.13	111.14
1	G	1964	ARG	N-CA-C	12.03	124.13	111.14
1	A	1736	VAL	CA-C-N	9.68	129.75	119.78
1	A	1736	VAL	C-N-CA	9.68	129.75	119.78
1	C	1736	VAL	CA-C-N	9.68	129.75	119.78
1	C	1736	VAL	C-N-CA	9.68	129.75	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1736	VAL	CA-C-N	9.68	129.75	119.78
1	E	1736	VAL	C-N-CA	9.68	129.75	119.78
1	G	1736	VAL	CA-C-N	9.68	129.75	119.78
1	G	1736	VAL	C-N-CA	9.68	129.75	119.78
1	A	805	PRO	CA-N-CD	-9.04	99.35	112.00
1	C	805	PRO	CA-N-CD	-9.04	99.35	112.00
1	E	805	PRO	CA-N-CD	-9.04	99.35	112.00
1	G	805	PRO	CA-N-CD	-9.04	99.35	112.00
1	A	824	GLU	CA-C-N	8.70	128.85	119.28
1	A	824	GLU	C-N-CA	8.70	128.85	119.28
1	C	824	GLU	CA-C-N	8.70	128.85	119.28
1	C	824	GLU	C-N-CA	8.70	128.85	119.28
1	E	824	GLU	CA-C-N	8.70	128.85	119.28
1	E	824	GLU	C-N-CA	8.70	128.85	119.28
1	G	824	GLU	CA-C-N	8.70	128.85	119.28
1	G	824	GLU	C-N-CA	8.70	128.85	119.28
1	A	59	PRO	CA-C-N	8.51	128.55	119.78
1	A	59	PRO	C-N-CA	8.51	128.55	119.78
1	C	59	PRO	CA-C-N	8.51	128.55	119.78
1	C	59	PRO	C-N-CA	8.51	128.55	119.78
1	E	59	PRO	CA-C-N	8.51	128.55	119.78
1	E	59	PRO	C-N-CA	8.51	128.55	119.78
1	G	59	PRO	CA-C-N	8.51	128.55	119.78
1	G	59	PRO	C-N-CA	8.51	128.55	119.78
1	A	1765	VAL	N-CA-C	8.51	127.04	109.34
1	C	1765	VAL	N-CA-C	8.51	127.04	109.34
1	E	1765	VAL	N-CA-C	8.51	127.04	109.34
1	G	1765	VAL	N-CA-C	8.51	127.04	109.34
1	A	4010	ILE	N-CA-C	8.40	118.42	110.53
1	C	4010	ILE	N-CA-C	8.40	118.42	110.53
1	E	4010	ILE	N-CA-C	8.40	118.42	110.53
1	G	4010	ILE	N-CA-C	8.40	118.42	110.53
1	A	2113	SER	CA-C-N	7.94	128.01	119.28
1	A	2113	SER	C-N-CA	7.94	128.01	119.28
1	C	2113	SER	CA-C-N	7.94	128.01	119.28
1	C	2113	SER	C-N-CA	7.94	128.01	119.28
1	E	2113	SER	CA-C-N	7.94	128.01	119.28
1	E	2113	SER	C-N-CA	7.94	128.01	119.28
1	G	2113	SER	CA-C-N	7.94	128.01	119.28
1	G	2113	SER	C-N-CA	7.94	128.01	119.28
1	A	1293	LEU	CA-C-N	7.78	127.80	119.78
1	A	1293	LEU	C-N-CA	7.78	127.80	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1293	LEU	CA-C-N	7.78	127.80	119.78
1	C	1293	LEU	C-N-CA	7.78	127.80	119.78
1	E	1293	LEU	CA-C-N	7.78	127.80	119.78
1	E	1293	LEU	C-N-CA	7.78	127.80	119.78
1	G	1293	LEU	CA-C-N	7.78	127.80	119.78
1	G	1293	LEU	C-N-CA	7.78	127.80	119.78
1	A	1248	VAL	CA-C-N	7.56	125.18	119.66
1	A	1248	VAL	C-N-CA	7.56	125.18	119.66
1	C	1248	VAL	CA-C-N	7.56	125.18	119.66
1	C	1248	VAL	C-N-CA	7.56	125.18	119.66
1	E	1248	VAL	CA-C-N	7.56	125.18	119.66
1	E	1248	VAL	C-N-CA	7.56	125.18	119.66
1	G	1248	VAL	CA-C-N	7.56	125.18	119.66
1	G	1248	VAL	C-N-CA	7.56	125.18	119.66
1	A	1856	ASP	N-CA-C	-7.42	103.19	111.28
1	C	1856	ASP	N-CA-C	-7.42	103.19	111.28
1	E	1856	ASP	N-CA-C	-7.42	103.19	111.28
1	G	1856	ASP	N-CA-C	-7.42	103.19	111.28
1	A	453	GLU	CA-C-N	7.15	124.88	119.66
1	A	453	GLU	C-N-CA	7.15	124.88	119.66
1	C	453	GLU	CA-C-N	7.15	124.88	119.66
1	C	453	GLU	C-N-CA	7.15	124.88	119.66
1	E	453	GLU	CA-C-N	7.15	124.88	119.66
1	E	453	GLU	C-N-CA	7.15	124.88	119.66
1	G	453	GLU	CA-C-N	7.15	124.88	119.66
1	G	453	GLU	C-N-CA	7.15	124.88	119.66
1	A	4903	ASP	CA-C-N	-7.01	112.26	119.83
1	A	4903	ASP	C-N-CA	-7.01	112.26	119.83
1	C	4903	ASP	CA-C-N	-7.01	112.26	119.83
1	C	4903	ASP	C-N-CA	-7.01	112.26	119.83
1	E	4903	ASP	CA-C-N	-7.01	112.26	119.83
1	E	4903	ASP	C-N-CA	-7.01	112.26	119.83
1	G	4903	ASP	CA-C-N	-7.01	112.26	119.83
1	G	4903	ASP	C-N-CA	-7.01	112.26	119.83
1	A	695	TYR	CA-C-N	6.84	126.81	119.28
1	A	695	TYR	C-N-CA	6.84	126.81	119.28
1	C	695	TYR	CA-C-N	6.84	126.81	119.28
1	C	695	TYR	C-N-CA	6.84	126.81	119.28
1	E	695	TYR	CA-C-N	6.84	126.81	119.28
1	E	695	TYR	C-N-CA	6.84	126.81	119.28
1	G	695	TYR	CA-C-N	6.84	126.81	119.28
1	G	695	TYR	C-N-CA	6.84	126.81	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1931	LEU	CA-C-N	6.75	126.66	119.85
1	A	1931	LEU	C-N-CA	6.75	126.66	119.85
1	C	1931	LEU	CA-C-N	6.75	126.66	119.85
1	C	1931	LEU	C-N-CA	6.75	126.66	119.85
1	E	1931	LEU	CA-C-N	6.75	126.66	119.85
1	E	1931	LEU	C-N-CA	6.75	126.66	119.85
1	G	1931	LEU	CA-C-N	6.75	126.66	119.85
1	G	1931	LEU	C-N-CA	6.75	126.66	119.85
1	A	2226	PRO	N-CA-CB	6.70	110.37	103.00
1	C	2226	PRO	N-CA-CB	6.70	110.37	103.00
1	E	2226	PRO	N-CA-CB	6.70	110.37	103.00
1	G	2226	PRO	N-CA-CB	6.70	110.37	103.00
1	A	647	ASN	N-CA-C	6.60	119.30	111.71
1	C	647	ASN	N-CA-C	6.60	119.30	111.71
1	E	647	ASN	N-CA-C	6.60	119.30	111.71
1	G	647	ASN	N-CA-C	6.60	119.30	111.71
1	A	679	ALA	N-CA-C	-6.54	100.60	110.28
1	C	679	ALA	N-CA-C	-6.54	100.60	110.28
1	E	679	ALA	N-CA-C	-6.54	100.60	110.28
1	G	679	ALA	N-CA-C	-6.54	100.60	110.28
1	A	778	PHE	CA-C-N	6.52	126.50	119.78
1	A	778	PHE	C-N-CA	6.52	126.50	119.78
1	C	778	PHE	CA-C-N	6.52	126.50	119.78
1	C	778	PHE	C-N-CA	6.52	126.50	119.78
1	E	778	PHE	CA-C-N	6.52	126.50	119.78
1	E	778	PHE	C-N-CA	6.52	126.50	119.78
1	G	778	PHE	CA-C-N	6.52	126.50	119.78
1	G	778	PHE	C-N-CA	6.52	126.50	119.78
1	A	2529	PRO	N-CA-CB	6.38	110.28	103.52
1	C	2529	PRO	N-CA-CB	6.38	110.28	103.52
1	E	2529	PRO	N-CA-CB	6.38	110.28	103.52
1	G	2529	PRO	N-CA-CB	6.38	110.28	103.52
1	A	2281	ILE	N-CA-C	6.32	117.07	110.62
1	C	2281	ILE	N-CA-C	6.32	117.07	110.62
1	E	2281	ILE	N-CA-C	6.32	117.07	110.62
1	G	2281	ILE	N-CA-C	6.32	117.07	110.62
1	A	4901	ILE	N-CA-C	-6.23	98.90	107.75
1	C	4901	ILE	N-CA-C	-6.23	98.90	107.75
1	E	4901	ILE	N-CA-C	-6.23	98.90	107.75
1	G	4901	ILE	N-CA-C	-6.23	98.90	107.75
1	A	4993	MET	CA-C-N	6.21	128.52	120.44
1	A	4993	MET	C-N-CA	6.21	128.52	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4993	MET	CA-C-N	6.21	128.52	120.44
1	C	4993	MET	C-N-CA	6.21	128.52	120.44
1	E	4993	MET	CA-C-N	6.21	128.52	120.44
1	E	4993	MET	C-N-CA	6.21	128.52	120.44
1	G	4993	MET	CA-C-N	6.21	128.52	120.44
1	G	4993	MET	C-N-CA	6.21	128.52	120.44
1	A	3966	THR	N-CA-C	-6.17	104.63	111.36
1	C	3966	THR	N-CA-C	-6.17	104.63	111.36
1	E	3966	THR	N-CA-C	-6.17	104.63	111.36
1	G	3966	THR	N-CA-C	-6.17	104.63	111.36
1	A	3837	GLN	N-CA-C	-6.16	104.57	111.28
1	C	3837	GLN	N-CA-C	-6.16	104.57	111.28
1	E	3837	GLN	N-CA-C	-6.16	104.57	111.28
1	G	3837	GLN	N-CA-C	-6.16	104.57	111.28
1	A	4690	GLU	N-CA-C	6.14	117.97	111.28
1	C	4690	GLU	N-CA-C	6.14	117.97	111.28
1	E	4690	GLU	N-CA-C	6.14	117.97	111.28
1	G	4690	GLU	N-CA-C	6.14	117.97	111.28
1	A	1540	PHE	N-CA-C	-6.04	98.80	109.06
1	C	1540	PHE	N-CA-C	-6.04	98.80	109.06
1	E	1540	PHE	N-CA-C	-6.04	98.80	109.06
1	G	1540	PHE	N-CA-C	-6.04	98.80	109.06
1	A	4993	MET	O-C-N	5.90	128.15	122.07
1	C	4993	MET	O-C-N	5.90	128.15	122.07
1	E	4993	MET	O-C-N	5.90	128.15	122.07
1	G	4993	MET	O-C-N	5.90	128.15	122.07
1	A	713	SER	N-CA-C	5.82	117.91	109.07
1	C	713	SER	N-CA-C	5.82	117.91	109.07
1	E	713	SER	N-CA-C	5.82	117.91	109.07
1	G	713	SER	N-CA-C	5.82	117.91	109.07
1	A	716	PHE	CB-CA-C	-5.79	109.91	116.63
1	C	716	PHE	CB-CA-C	-5.79	109.91	116.63
1	E	716	PHE	CB-CA-C	-5.79	109.91	116.63
1	G	716	PHE	CB-CA-C	-5.79	109.91	116.63
1	A	2160	GLY	N-CA-C	-5.79	107.74	115.32
1	C	2160	GLY	N-CA-C	-5.79	107.74	115.32
1	E	2160	GLY	N-CA-C	-5.79	107.74	115.32
1	G	2160	GLY	N-CA-C	-5.79	107.74	115.32
1	A	1766	GLY	N-CA-C	5.78	119.67	112.73
1	C	1766	GLY	N-CA-C	5.78	119.67	112.73
1	E	1766	GLY	N-CA-C	5.78	119.67	112.73
1	G	1766	GLY	N-CA-C	5.78	119.67	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1542	VAL	N-CA-C	5.75	116.41	108.12
1	C	1542	VAL	N-CA-C	5.75	116.41	108.12
1	E	1542	VAL	N-CA-C	5.75	116.41	108.12
1	G	1542	VAL	N-CA-C	5.75	116.41	108.12
1	A	1561	VAL	N-CA-C	5.72	118.20	111.05
1	C	1561	VAL	N-CA-C	5.72	118.20	111.05
1	E	1561	VAL	N-CA-C	5.72	118.20	111.05
1	G	1561	VAL	N-CA-C	5.72	118.20	111.05
1	A	1284	VAL	N-CA-C	5.70	118.22	111.09
1	C	1284	VAL	N-CA-C	5.70	118.22	111.09
1	E	1284	VAL	N-CA-C	5.70	118.22	111.09
1	G	1284	VAL	N-CA-C	5.70	118.22	111.09
1	A	700	GLU	CB-CA-C	-5.69	109.99	116.54
1	C	700	GLU	CB-CA-C	-5.69	109.99	116.54
1	E	700	GLU	CB-CA-C	-5.69	109.99	116.54
1	G	700	GLU	CB-CA-C	-5.69	109.99	116.54
1	A	472	ARG	N-CA-C	-5.65	105.03	111.07
1	C	472	ARG	N-CA-C	-5.65	105.03	111.07
1	E	472	ARG	N-CA-C	-5.65	105.03	111.07
1	G	472	ARG	N-CA-C	-5.65	105.03	111.07
1	A	1285	GLU	N-CA-C	5.62	117.63	108.76
1	C	1285	GLU	N-CA-C	5.62	117.63	108.76
1	E	1285	GLU	N-CA-C	5.62	117.63	108.76
1	G	1285	GLU	N-CA-C	5.62	117.63	108.76
1	A	4000	MET	N-CA-C	-5.53	106.30	113.16
1	C	4000	MET	N-CA-C	-5.53	106.30	113.16
1	E	4000	MET	N-CA-C	-5.53	106.30	113.16
1	G	4000	MET	N-CA-C	-5.53	106.30	113.16
1	A	4711	PHE	CA-C-N	-5.53	114.44	121.91
1	A	4711	PHE	C-N-CA	-5.53	114.44	121.91
1	C	4711	PHE	CA-C-N	-5.53	114.44	121.91
1	C	4711	PHE	C-N-CA	-5.53	114.44	121.91
1	E	4711	PHE	CA-C-N	-5.53	114.44	121.91
1	E	4711	PHE	C-N-CA	-5.53	114.44	121.91
1	G	4711	PHE	CA-C-N	-5.53	114.44	121.91
1	G	4711	PHE	C-N-CA	-5.53	114.44	121.91
1	A	1543	GLU	CA-C-N	-5.49	112.96	119.05
1	A	1543	GLU	C-N-CA	-5.49	112.96	119.05
1	C	1543	GLU	CA-C-N	-5.49	112.96	119.05
1	C	1543	GLU	C-N-CA	-5.49	112.96	119.05
1	E	1543	GLU	CA-C-N	-5.49	112.96	119.05
1	E	1543	GLU	C-N-CA	-5.49	112.96	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1543	GLU	CA-C-N	-5.49	112.96	119.05
1	G	1543	GLU	C-N-CA	-5.49	112.96	119.05
1	A	3670	GLU	N-CA-C	-5.48	105.41	111.71
1	C	3670	GLU	N-CA-C	-5.48	105.41	111.71
1	E	3670	GLU	N-CA-C	-5.48	105.41	111.71
1	G	3670	GLU	N-CA-C	-5.48	105.41	111.71
1	A	4031	LEU	N-CA-C	5.47	119.80	113.18
1	C	4031	LEU	N-CA-C	5.47	119.80	113.18
1	E	4031	LEU	N-CA-C	5.47	119.80	113.18
1	G	4031	LEU	N-CA-C	5.47	119.80	113.18
1	A	4177	TYR	N-CA-C	5.46	117.43	110.61
1	C	4177	TYR	N-CA-C	5.46	117.43	110.61
1	E	4177	TYR	N-CA-C	5.46	117.43	110.61
1	G	4177	TYR	N-CA-C	5.46	117.43	110.61
1	A	840	VAL	N-CA-C	5.41	115.94	110.05
1	C	840	VAL	N-CA-C	5.41	115.94	110.05
1	E	840	VAL	N-CA-C	5.41	115.94	110.05
1	G	840	VAL	N-CA-C	5.41	115.94	110.05
1	A	679	ALA	CA-C-O	5.40	127.21	121.16
1	C	679	ALA	CA-C-O	5.40	127.21	121.16
1	E	679	ALA	CA-C-O	5.40	127.21	121.16
1	G	679	ALA	CA-C-O	5.40	127.21	121.16
1	A	532	GLY	N-CA-C	5.40	121.96	113.86
1	C	532	GLY	N-CA-C	5.40	121.96	113.86
1	E	532	GLY	N-CA-C	5.40	121.96	113.86
1	G	532	GLY	N-CA-C	5.40	121.96	113.86
1	A	4692	PRO	CA-N-CD	-5.39	104.45	112.00
1	C	4692	PRO	CA-N-CD	-5.39	104.45	112.00
1	E	4692	PRO	CA-N-CD	-5.39	104.45	112.00
1	G	4692	PRO	CA-N-CD	-5.39	104.45	112.00
1	A	530	ILE	N-CA-C	5.39	117.82	111.09
1	C	530	ILE	N-CA-C	5.39	117.82	111.09
1	E	530	ILE	N-CA-C	5.39	117.82	111.09
1	G	530	ILE	N-CA-C	5.39	117.82	111.09
1	A	816	LEU	N-CA-C	5.38	120.24	113.25
1	C	816	LEU	N-CA-C	5.38	120.24	113.25
1	E	816	LEU	N-CA-C	5.38	120.24	113.25
1	G	816	LEU	N-CA-C	5.38	120.24	113.25
1	A	721	LEU	N-CA-C	5.30	118.21	109.72
1	C	721	LEU	N-CA-C	5.30	118.21	109.72
1	E	721	LEU	N-CA-C	5.30	118.21	109.72
1	G	721	LEU	N-CA-C	5.30	118.21	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4974	GLY	N-CA-C	5.30	121.81	113.86
1	C	4974	GLY	N-CA-C	5.30	121.81	113.86
1	E	4974	GLY	N-CA-C	5.30	121.81	113.86
1	G	4974	GLY	N-CA-C	5.30	121.81	113.86
1	A	2202	GLY	N-CA-C	-5.28	107.96	115.30
1	C	2202	GLY	N-CA-C	-5.28	107.96	115.30
1	E	2202	GLY	N-CA-C	-5.28	107.96	115.30
1	G	2202	GLY	N-CA-C	-5.28	107.96	115.30
1	A	1855	GLY	N-CA-C	-5.22	104.45	112.85
1	C	1855	GLY	N-CA-C	-5.22	104.45	112.85
1	E	1855	GLY	N-CA-C	-5.22	104.45	112.85
1	G	1855	GLY	N-CA-C	-5.22	104.45	112.85
1	A	1762	LEU	CA-C-N	-5.20	113.28	119.05
1	A	1762	LEU	C-N-CA	-5.20	113.28	119.05
1	C	1762	LEU	CA-C-N	-5.20	113.28	119.05
1	C	1762	LEU	C-N-CA	-5.20	113.28	119.05
1	E	1762	LEU	CA-C-N	-5.20	113.28	119.05
1	E	1762	LEU	C-N-CA	-5.20	113.28	119.05
1	G	1762	LEU	CA-C-N	-5.20	113.28	119.05
1	G	1762	LEU	C-N-CA	-5.20	113.28	119.05
1	A	4993	MET	CA-CB-CG	5.18	124.46	114.10
1	C	4993	MET	CA-CB-CG	5.18	124.46	114.10
1	E	4993	MET	CA-CB-CG	5.18	124.46	114.10
1	G	4993	MET	CA-CB-CG	5.18	124.46	114.10
1	A	675	LEU	N-CA-C	-5.13	102.69	110.28
1	C	675	LEU	N-CA-C	-5.13	102.69	110.28
1	E	675	LEU	N-CA-C	-5.13	102.69	110.28
1	G	675	LEU	N-CA-C	-5.13	102.69	110.28
1	A	830	ARG	N-CA-C	5.11	116.38	107.49
1	C	830	ARG	N-CA-C	5.11	116.38	107.49
1	E	830	ARG	N-CA-C	5.11	116.38	107.49
1	G	830	ARG	N-CA-C	5.11	116.38	107.49
1	A	863	LEU	CA-C-N	5.09	123.38	119.66
1	A	863	LEU	C-N-CA	5.09	123.38	119.66
1	C	863	LEU	CA-C-N	5.09	123.38	119.66
1	C	863	LEU	C-N-CA	5.09	123.38	119.66
1	E	863	LEU	CA-C-N	5.09	123.38	119.66
1	E	863	LEU	C-N-CA	5.09	123.38	119.66
1	G	863	LEU	CA-C-N	5.09	123.38	119.66
1	G	863	LEU	C-N-CA	5.09	123.38	119.66
1	A	644	ILE	N-CA-C	5.05	115.40	108.12
1	C	644	ILE	N-CA-C	5.05	115.40	108.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	644	ILE	N-CA-C	5.05	115.40	108.12
1	G	644	ILE	N-CA-C	5.05	115.40	108.12
1	A	4877	ASP	N-CA-C	-5.04	108.87	114.62
1	C	4877	ASP	N-CA-C	-5.04	108.87	114.62
1	E	4877	ASP	N-CA-C	-5.04	108.87	114.62
1	G	4877	ASP	N-CA-C	-5.04	108.87	114.62
1	A	1451	GLY	N-CA-C	5.04	118.33	110.88
1	C	1451	GLY	N-CA-C	5.04	118.33	110.88
1	E	1451	GLY	N-CA-C	5.04	118.33	110.88
1	G	1451	GLY	N-CA-C	5.04	118.33	110.88
1	A	4708	THR	CA-C-N	5.03	124.81	119.28
1	A	4708	THR	C-N-CA	5.03	124.81	119.28
1	C	4708	THR	CA-C-N	5.03	124.81	119.28
1	C	4708	THR	C-N-CA	5.03	124.81	119.28
1	E	4708	THR	CA-C-N	5.03	124.81	119.28
1	E	4708	THR	C-N-CA	5.03	124.81	119.28
1	G	4708	THR	CA-C-N	5.03	124.81	119.28
1	G	4708	THR	C-N-CA	5.03	124.81	119.28
1	A	4034	ASN	N-CA-C	5.03	117.52	110.23
1	C	4034	ASN	N-CA-C	5.03	117.52	110.23
1	E	4034	ASN	N-CA-C	5.03	117.52	110.23
1	G	4034	ASN	N-CA-C	5.03	117.52	110.23
1	A	2162	ILE	N-CA-C	5.01	115.73	110.62
1	A	3907	THR	N-CA-C	5.01	117.48	111.71
1	C	2162	ILE	N-CA-C	5.01	115.73	110.62
1	C	3907	THR	N-CA-C	5.01	117.48	111.71
1	E	2162	ILE	N-CA-C	5.01	115.73	110.62
1	E	3907	THR	N-CA-C	5.01	117.48	111.71
1	G	2162	ILE	N-CA-C	5.01	115.73	110.62
1	G	3907	THR	N-CA-C	5.01	117.48	111.71
1	A	195	PHE	N-CA-C	-5.01	105.82	111.28
1	C	195	PHE	N-CA-C	-5.01	105.82	111.28
1	E	195	PHE	N-CA-C	-5.01	105.82	111.28
1	G	195	PHE	N-CA-C	-5.01	105.82	111.28
1	A	1641	ILE	CA-C-N	5.01	124.79	119.28
1	A	1641	ILE	C-N-CA	5.01	124.79	119.28
1	C	1641	ILE	CA-C-N	5.01	124.79	119.28
1	C	1641	ILE	C-N-CA	5.01	124.79	119.28
1	E	1641	ILE	CA-C-N	5.01	124.79	119.28
1	E	1641	ILE	C-N-CA	5.01	124.79	119.28
1	G	1641	ILE	CA-C-N	5.01	124.79	119.28
1	G	1641	ILE	C-N-CA	5.01	124.79	119.28

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

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	1758	0
1	C	26957	0	23849	1763	0
1	E	26957	0	23849	1749	0
1	G	26957	0	23849	1758	0
2	B	832	0	831	44	0
2	D	832	0	831	44	0
2	F	832	0	831	43	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	7047	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 34.

All (7047) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2198:MET:HE3	1:A:2203:MET:SD	1.19	1.70
1:C:2198:MET:HE3	1:C:2203:MET:SD	1.19	1.68
1:E:2198:MET:HE3	1:E:2203:MET:SD	1.19	1.66
1:G:2198:MET:HE3	1:G:2203:MET:SD	1.19	1.65
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:G:3839:CYS:SG	1:G:3881:THR:CG2	2.06	1.43
1:A:1286:MET:HE2	1:A:1555:LEU:CD1	1.48	1.43
1:C:1286:MET:HE2	1:C:1555:LEU:CD1	1.48	1.42
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:G:1286:MET:HE2	1:G:1555:LEU:CD1	1.48	1.41
1:E:1286:MET:HE2	1:E:1555:LEU:CD1	1.48	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: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:G:2198:MET:CE	1:G:2203:MET:SD	2.10	1.38
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:E:2198:MET:CE	1:E:2203:MET:SD	2.10	1.37
1:C:1122:TYR:CE1	1:C:1133:HIS:CE1	2.12	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:554:LEU:CD1	1:E:593:HIS:CE1	2.06	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
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:G:49:LEU:HD11	1:G:189:LEU:C	1.58	1.29
1:A:49:LEU:HD11	1:A:189:LEU:C	1.58	1.28
1:E:4693:GLY:O	1:E:4695:ASP:N	1.63	1.28
1:C:49:LEU:HD11	1:C:189:LEU:C	1.58	1.27
1:A:125:ARG:HB2	1:A:134:ASP:CG	1.59	1.27
1:E:125:ARG:HB2	1:E:134:ASP:CG	1.59	1.27
1:E:49:LEU:HD11	1:E:189:LEU:C	1.58	1.26
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:G:125:ARG:HB2	1:G:134:ASP:CG	1.59	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:C:125:ARG:HB2	1:C:134:ASP:CG	1.59	1.24
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: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:G:2198:MET:CE	1:G:2203:MET:HE1	1.70	1.22
1:C:157:ARG:NH1	1:C:164:ARG:HB2	1.55	1.22
1:E:2198:MET:CE	1:E:2203:MET:HE1	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:2198:MET:CE	1:A:2203:MET:HE1	1.70	1.20
1:G:157:ARG:NH1	1:G:164:ARG:HB2	1.55	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
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:C:2198:MET:CE	1:C:2203:MET:HE1	1.70	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: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: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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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: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:A:384:MET:HE1	1:G:167:ASP:OD1	1.48	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: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:C:167:ASP:OD1	1:E:384:MET:HE1	1.48	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:E:45:ARG:HH21	1:E:116:MET:HE1	0.99	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:C:45:ARG:NH2	1:C:116:MET:HE1	1.66	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:167:ASP:OD1	1:G:384:MET:HE1	1.48	1.10
1:G:45:ARG:NH2	1:G:116:MET:HE1	1.66	1.10
1:A:45:ARG:NH2	1:A:116:MET:HE1	1.66	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:C:2198:MET:HE1	1:C:2203:MET:HE1	1.19	1.10
1:E:45:ARG:NH2	1:E:116:MET:HE1	1.66	1.10
1:G:682:LEU:HD21	1:G:787:VAL:CG1	1.81	1.10
1:A:2198:MET:HE1	1:A:2203:MET:HE1	1.19	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:1286:MET:CE	1:C:1555:LEU:CD1	2.29	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:45:ARG:HH21	1:C:116:MET:HE1	0.99	1.09
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:45:ARG:HH21	1:G:116:MET:HE1	0.99	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:167:ASP:OD1	1:C:384:MET:HE1	1.48	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:592:LYS:HE2	1:C:1596:GLU:CD	1.79	1.08
1:G:2198:MET:HE1	1:G:2203:MET:HE1	1.19	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:592:LYS:HE2	1:E:1596:GLU:CD	1.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4692:PRO:HD3	1:G:4703:ARG:HH21	1.00	1.08
1:A:592:LYS:HE2	1:A:1596:GLU:CD	1.79	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:E:1286:MET:HE2	1:E:1555:LEU:HD13	1.13	1.08
1:G:592:LYS:HE2	1:G:1596:GLU:CD	1.79	1.08
1:G:4686:LEU:HG	1:G:4687:TYR:CD1	1.88	1.08
1:A:45:ARG:HH21	1:A:116:MET:HE1	0.99	1.07
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: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
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:2198:MET:HE1	1:E:2203:MET:HE1	1.19	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:4195:PHE:CE1	1:G:4197:ILE:HG13	1.89	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: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:1286:MET:HE2	1:G:1555:LEU:HD13	1.13	1.06
1:G:4686:LEU:HD11	1:G:4687:TYR:HE1	1.16	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1286:MET:HE2	1:A:1555:LEU:HD13	1.13	1.05
1:A:716:PHE:CE2	1:A:717:ASP:CB	2.38	1.05
1:C:1286:MET:HE2	1:C:1555:LEU:HD13	1.13	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
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: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:A:273:HIS:CE1	1:A:334:MET:HE2	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:273:HIS:CE1	1:C:334:MET:HE2	1.92	1.04
1:C:2129:ASP:HB2	1:C:3669:PHE:HE2	1.21	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:E:273:HIS:CE1	1:E:334:MET:HE2	1.92	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:588:SER:O	1:G:592:LYS:HG3	1.58	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:588:SER:O	1:C:592:LYS:HG3	1.58	1.03
1:A:2129:ASP:HB2	1:A:3669:PHE:HE2	1.21	1.03
1:C:1452:TRP:CG	1:C:1527:MET:HE1	1.93	1.03
1:E:736:HIS:CE1	1:E:739:ALA:HB2	1.92	1.03
1:A:515:TRP:CZ3	1:A:555:GLU:HG3	1.94	1.03
1:A:1452:TRP:CG	1:A:1527:MET:HE1	1.93	1.03
1:C:721:LEU:CD2	1:C:767:VAL:CG1	2.37	1.03
1:E:1452:TRP:CG	1:E:1527:MET:HE1	1.93	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:273:HIS:CE1	1:G:334:MET:HE2	1.92	1.03
1:G:721:LEU:CD2	1:G:767:VAL:CG1	2.37	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:1452:TRP:CG	1:G:1527:MET:HE1	1.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:2198:MET:HE1	1:G:2203:MET:CE	1.88	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:2198:MET:HE1	1:A:2203:MET:CE	1.88	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: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:C:2198:MET:HE1	1:C:2203:MET:CE	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:2198:MET:HE1	1:E:2203:MET:CE	1.88	0.97
1:E:1122:TYR:HE1	1:E:1133:HIS:CE1	1.69	0.97
1:C:721:LEU:HD22	1:C:767:VAL:CG1	1.94	0.97
1:E:167:ASP:CG	1:G:384:MET:HE1	1.90	0.97
1:G:682:LEU:HD21	1:G:787:VAL:HG11	0.98	0.97
1:G:1286:MET:HE2	1:G:1555:LEU:HD11	1.47	0.97
1:A:384:MET:HE1	1:G:167:ASP:CG	1.90	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:A:1286:MET:HE2	1:A:1555:LEU:HD11	1.47	0.97
1:C:167:ASP:CG	1:E:384:MET:HE1	1.90	0.97
1:G:1452:TRP:CB	1:G:1527:MET:HE1	1.95	0.97
1:A:167:ASP:CG	1:C:384:MET:HE1	1.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:49:LEU:CD1	1:E:189:LEU:C	2.30	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:4904:PRO:CG	1:E:4910:GLU:HG2	1.93	0.96
1:C:1452:TRP:CB	1:C:1527:MET:HE1	1.95	0.96
1:E:1452:TRP:CB	1:E:1527:MET:HE1	1.95	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
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:1286:MET:HE2	1:E:1555:LEU:HD11	1.47	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: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:3669:PHE:CD1	1:G:3670:GLU:N	2.33	0.95
1:C:592:LYS:CE	1:C:1596:GLU:CD	2.39	0.95
1:C:3839:CYS:SG	1:C:3881:THR:CB	2.55	0.95
1:G:592:LYS:CE	1:G:1596:GLU:CD	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:592:LYS:CE	1:E:1596:GLU:CD	2.39	0.94
1:A:592:LYS:CE	1:A:1596:GLU:CD	2.39	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
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:49:LEU:CD1	1:C:189:LEU:C	2.30	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:49:LEU:CD1	1:A:189:LEU:C	2.30	0.93
1:A:1743:ARG:HB2	1:A:1963:GLU:HG2	1.50	0.93
1:C:1286:MET:HE2	1:C:1555:LEU:HD11	1.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:A:682:LEU:HD12	1:A:783:PHE:CA	1.99	0.92
1:A:1848:LEU:HD12	1:A:1853:ILE:HD12	1.49	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:A:273:HIS:CE1	1:A:334:MET:CE	2.54	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
1:A:4693:GLY:C	1:A:4695:ASP:H	1.82	0.88
2:B:26:TYR:H	2:B:39:SER:CB	1.86	0.88
1:G:49:LEU:HD11	1:G:189:LEU:HB2	1.48	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:G:4693:GLY:C	1:G:4695:ASP:H	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:4693:GLY:C	1:C:4695:ASP:H	1.82	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: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
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:E:4693:GLY:C	1:E:4695:ASP:H	1.82	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:A:2198:MET:HE3	1:A:2203:MET:CE	1.98	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:G:1452:TRP:CD1	1:G:1527:MET:CE	2.60	0.85
1:A:1762:LEU:HD12	1:A:1764:GLY:H	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1132:TRP:CD1	1:G:1136:SER:HA	2.12	0.84
1:C:49:LEU:HD11	1:C:189:LEU:HB2	1.48	0.84
1:C:644:ILE:HG21	1:C:823:LEU:HB2	1.59	0.84
1:E:805:PRO:HD2	1:E:806:PRO:N	1.91	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
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: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: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:682:LEU:HD11	1:E:783:PHE:CB	2.08	0.83
1:A:644:ILE:HG21	1:A:823:LEU:HB2	1.59	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:C:1286:MET:CE	1:C:1555:LEU:HD11	2.05	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:805:PRO:HD2	1:C:806:PRO:N	1.91	0.83
1:C:1286:MET:H	1:C:1555:LEU:HD12	1.41	0.83
1:G:49:LEU:CD1	1:G:189:LEU:C	2.30	0.83
1:G:716:PHE:CD2	1:G:717:ASP:CB	2.61	0.83
1:G:1452:TRP:HB2	1:G:1527:MET:HE1	1.60	0.83
1:A:682:LEU:HD11	1:A:783:PHE:CB	2.08	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: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:G:1286:MET:CE	1:G:1555:LEU:HD11	2.05	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:1452:TRP:HB2	1:E:1527:MET:HE1	1.60	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
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:A:1452:TRP:HB2	1:A:1527:MET:HE1	1.60	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:A:1286:MET:CE	1:A:1555:LEU:HD11	2.05	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1293:LEU:HB3	1:A:1584:ARG:HG2	1.62	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:C:4961:CYS:HG	3:C:6000:ZN:ZN	0.94	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: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: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:1452:TRP:HB2	1:C:1527:MET:HE1	1.60	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:597:HIS:CD2	1:A:1661:ARG:HD3	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:161:GLU:CD	1:C:164:ARG:HH21	1.91	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:3970:GLN:HA	1:C:3970:GLN:NE2	1.96	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:161:GLU:CD	1:A:164:ARG:HH21	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:600:LEU:CD2	1:A:1665:HIS:C	2.56	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:161:GLU:CD	1:E:164:ARG:HH21	1.91	0.78
1:E:4686:LEU:CD1	1:E:4687:TYR:CE1	2.65	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: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: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:4182:GLU:HG2	1:E:4192:ARG:CB	2.13	0.78
1:A:4182:GLU:HG2	1:A:4192:ARG:CB	2.13	0.78
1:C:600:LEU:HD23	1:C:1665:HIS:C	2.09	0.78
1:E:2533:ALA:HA	1:E:2550:LEU:HD22	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:E:1452:TRP:HB2	1:E:1527:MET:CE	2.13	0.78
1:G:161:GLU:CD	1:G:164:ARG:HH21	1.91	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:600:LEU:CD2	1:C:1665:HIS:C	2.56	0.78
1:E:600:LEU:HD23	1:E:1665:HIS:C	2.09	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:3970:GLN:HA	1:E:3970:GLN:NE2	1.96	0.77
1:G:4680:LYS:HA	1:G:4684:ASP:HB2	1.66	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
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:600:LEU:HD23	1:G:1665:HIS:C	2.09	0.77
1:G:600:LEU:CD2	1:G:1665:HIS:C	2.56	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:600:LEU:HD23	1:A:1665:HIS:C	2.09	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:600:LEU:CD2	1:E:1665:HIS:C	2.56	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:C:2198:MET:HE3	1:C:2203:MET:CE	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3970:GLN:HA	1:A:3970:GLN:NE2	1.96	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
1:C:1452:TRP:CD1	1:C:1527:MET:HE1	2.20	0.77
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:45:ARG:NH2	1:A:116:MET:CE	2.45	0.76
1:A:1452:TRP:CD1	1:A:1527:MET:HE1	2.20	0.76
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: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:E:3989:VAL:HG12	1:E:4047:MET:HE1	1.68	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: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:G:4083:ASP:OD2	1:G:4087:LEU:C	2.29	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4961:CYS:HG	3:G:6000:ZN:ZN	1.00	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: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:E:3980:LEU:HD21	1:E:3985:LEU:HD22	1.68	0.76
1:E:4083:ASP:OD2	1:E:4087:LEU:C	2.29	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:3989:VAL:HG12	1:C:4047:MET:HE1	1.68	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:A:4083:ASP:OD2	1:A:4087:LEU:C	2.29	0.75
1:G:3989:VAL:HG12	1:G:4047:MET:HE1	1.68	0.75
1:A:667:MET:HB2	1:A:790:ARG:HB2	1.69	0.75
1:C:4083:ASP:OD2	1:C:4087:LEU:C	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:684:VAL:HG13	1:E:781:VAL:HG22	1.66	0.75
1:G:45:ARG:NH2	1:G:116:MET:CE	2.45	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:E:1452:TRP:CD1	1:E:1527:MET:HE1	2.20	0.75
1:G:1452:TRP:CD1	1:G:1527:MET:HE1	2.20	0.75
1:G:3669:PHE:CE1	1:G:3670:GLU:OE1	2.40	0.75
1:G:3837:GLN:HA	1:G:3837:GLN:NE2	2.00	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
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: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:A:3989:VAL:HG12	1:A:4047:MET:HE1	1.68	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1679:ASN:HB3	1:A:1799:SER:H	1.53	0.74
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: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:E:1705:GLY:C	1:E:1836:PHE:CD2	2.66	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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
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:1830:VAL:HB	1:C:1837:GLN:HG2	1.70	0.73
1:G:1131:ARG:HH11	1:G:1131:ARG:HG3	1.53	0.73
1:G:3839:CYS:O	1:G:3840:SER:OG	2.06	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:1705:GLY:C	1:C:1836:PHE:CD2	2.66	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:A:1705:GLY:C	1:A:1836:PHE:CD2	2.66	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:4820:VAL:HG21	1:G:4839:MET:HE2	1.72	0.72
1:E:1132:TRP:HE1	1:E:1136:SER:N	1.87	0.72
1:E:4839:MET:HE2	1:G:4820:VAL:HG21	1.72	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:G:1705:GLY:C	1:G:1836:PHE:CD2	2.66	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: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:3669:PHE:HE1	1:G:3670:GLU:CD	1.97	0.72
1:A:1131:ARG:HH11	1:A:1131:ARG:HG3	1.53	0.72
1:C:1857:GLU:H	1:C:1857:GLU:CD	1.97	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:C:4994:TYR:HE2	1:C:5007:GLU:CD	1.98	0.72
1:E:1182:ILE:HD12	1:E:1188:PHE:HE2	1.54	0.72
1:E:3669:PHE:HE1	1:E:3670:GLU:CD	1.97	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:A:4994:TYR:HE2	1:A:5007:GLU:CD	1.98	0.72
1:C:45:ARG:NH2	1:C:116:MET:CE	2.45	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:592:LYS:NZ	1:C:1596:GLU:OE2	2.23	0.72
1:C:3669:PHE:HE1	1:C:3670:GLU:CD	1.97	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:3669:PHE:HE1	1:A:3670:GLU:CD	1.97	0.72
1:A:3839:CYS:O	1:A:3840:SER:OG	2.06	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:C:4178:LEU:C	1:C:4178:LEU:HD12	2.15	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:E:4178:LEU:C	1:E:4178:LEU:HD12	2.15	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: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
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: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:4178:LEU:C	1:A:4178:LEU:HD12	2.15	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: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:E:4994:TYR:HE2	1:E:5007:GLU:CD	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4839:MET:HE2	1:C:4820:VAL:HG21	1.72	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: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:C:4839:MET:HE2	1:E:4820:VAL:HG21	1.72	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4178:LEU:C	1:G:4178:LEU:HD12	2.15	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: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:G:4994:TYR:HE2	1:G:5007:GLU:CD	1.98	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: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:C:1452:TRP:CD1	1:C:1527:MET:HE3	2.26	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:A:125:ARG:CB	1:A:134:ASP:CG	2.53	0.70
1:C:1131:ARG:HG3	1:C:1131:ARG:HH11	1.53	0.70
1:E:45:ARG:NH2	1:E:116:MET:CE	2.45	0.70
1:E:1288:PHE:HE2	1:E:1462:HIS:HA	1.55	0.70
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: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:E:1482:ASN:O	1:E:1483:VAL:CB	2.38	0.70
1:E:1815:LEU:HD22	1:E:1865:MET:HE1	1.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1648:MET:HE1	1:C:1656:ARG:HE	1.57	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:CD1	1:E:1527:MET:HE3	2.26	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:125:ARG:HD3	1:A:134:ASP:CG	2.17	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: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:A:4205:TRP:CD1	1:A:4989:MET:HE1	2.27	0.70
1:C:4904:PRO:CG	1:C:4910:GLU:CG	2.64	0.70
1:E:736:HIS:HE1	1:E:739:ALA:HB2	1.56	0.70
1:E:4205:TRP:CD1	1:E:4989:MET:HE1	2.27	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:1452:TRP:CD1	1:A:1527:MET:HE3	2.26	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:592:LYS:CE	1:C:1596:GLU:OE1	2.40	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: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:125:ARG:HD3	1:G:134:ASP:CG	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4686:LEU:CG	1:A:4687:TYR:CE1	2.75	0.70
1:C:1815:LEU:HD22	1:C:1865:MET:HE1	1.74	0.70
1:E:2277:ALA:HB1	1:E:2337:PHE:HD2	1.57	0.70
1:G:1815:LEU:HD22	1:G:1865:MET:HE1	1.74	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:3669:PHE:CE1	1:C:3670:GLU:CD	2.70	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:1648:MET:HE1	1:E:1656:ARG:HE	1.57	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:E:4961:CYS:HG	3:E:6000:ZN:ZN	1.02	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:A:3669:PHE:CE1	1:A:3670:GLU:CD	2.70	0.69
1:E:125:ARG:CB	1:E:134:ASP:CG	2.53	0.69
1:E:1240:LYS:HZ1	1:E:1610:ASN:HD22	1.39	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
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:A:1815:LEU:HD22	1:A:1865:MET:HE1	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:125:ARG:HD3	1:C:134:ASP:CG	2.17	0.69
1:E:592:LYS:CE	1:E:1596:GLU:OE1	2.40	0.69
1:G:4205:TRP:CD1	1:G:4989:MET:HE1	2.27	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:1648:MET:HE1	1:A:1656:ARG:HE	1.57	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:125:ARG:HD3	1:E:134:ASP:CG	2.17	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:3669:PHE:CE1	1:E:3670:GLU:CD	2.70	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:1452:TRP:CD1	1:G:1527:MET:HE3	2.26	0.69
1:G:1648:MET:HE1	1:G:1656:ARG:HE	1.57	0.69
1:G:1848:LEU:HD23	1:G:1854:PHE:HZ	1.56	0.69
1:G:3669:PHE:CE1	1:G:3670:GLU:CD	2.70	0.69
1:A:4904:PRO:C	1:A:4910:GLU:HG3	2.18	0.69
1:C:4205:TRP:CD1	1:C:4989:MET:HE1	2.27	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:G:4904:PRO:C	1:G:4910:GLU:HG3	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:1782:PHE:CD2	2:B:37:ASP:OD2	2.46	0.68
1:C:4904:PRO:C	1:C:4910:GLU:HG3	2.18	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: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: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: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:E:4904:PRO:C	1:E:4910:GLU:HG3	2.18	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
1:C:681:HIS:CA	1:C:716:PHE:CD1	2.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:592:LYS:CE	1:G:1596:GLU:OE1	2.40	0.68
1:G:1275:ARG:NH2	1:G:1599:MET:O	2.27	0.68
1:A:851:PHE:O	1:A:852:VAL:C	2.37	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: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:G:851:PHE:O	1:G:852:VAL:C	2.37	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:70:GLU:C	1:C:71:GLN:HG2	2.18	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:3897:ASN:OD1	1:A:3901:ASN:ND2	2.26	0.67
1:C:1240:LYS:HZ1	1:C:1610:ASN:HD22	1.42	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:70:GLU:C	1:E:71:GLN:HG2	2.18	0.67
1:G:1716:ILE:HD11	1:G:1844:LEU:HA	1.76	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:4901:ILE:CD1	1:G:4913:ARG:NE	2.58	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: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
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:736:HIS:HE1	1:G:739:ALA:HB2	1.56	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:161:GLU:HG3	1:E:3984:ARG:CZ	2.24	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:A:1547:LYS:NZ	1:A:1642:PRO:O	2.27	0.67
1:C:1705:GLY:HA3	1:C:1836:PHE:CD2	2.30	0.67
1:E:3841:VAL:HG12	1:E:3843:ASP:H	1.59	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:851:PHE:O	1:C:852:VAL:C	2.37	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: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
1:G:1856:ASP:O	1:G:1860:LYS:N	2.25	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:E:851:PHE:O	1:E:852:VAL:C	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:721:LEU:C	1:G:721:LEU:HD12	2.20	0.66
1:A:972:LEU:HB3	1:A:1044:ARG:HB3	1.78	0.66
1:A:1564:PHE:HE2	1:A:1601:MET:HE2	1.60	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: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
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:G:1564:PHE:HE2	1:G:1601:MET:HE2	1.60	0.66
1:C:554:LEU:HA	1:C:557:SER:HB3	1.76	0.66
1:C:721:LEU:C	1:C:721:LEU:HD12	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:972:LEU:HB3	1:C:1044:ARG:HB3	1.78	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:70:GLU:C	1:G:71:GLN:HG2	2.18	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
1:A:2907:PRO:O	1:A:2910:THR:OG1	2.14	0.66
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:721:LEU:C	1:E:721:LEU:HD12	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1564:PHE:HE2	1:E:1601:MET:HE2	1.60	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:G:4010:ILE:HD12	1:G:4010:ILE:C	2.20	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:A:721:LEU:C	1:A:721:LEU:HD12	2.20	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:70:GLU:C	1:A:71:GLN:HG2	2.18	0.65
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: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
1:E:1857:GLU:H	1:E:1857:GLU:CD	1.97	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:1564:PHE:HE2	1:C:1601:MET:HE2	1.60	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:1857:GLU:H	1:G:1857:GLU:CD	1.97	0.65
1:A:1214:PHE:O	1:A:1218:GLY:N	2.27	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:1516:ILE:CB	1:A:1530:THR:HG1	2.09	0.64
1:A:1579:MET:O	1:A:1582:SER:OG	2.15	0.64
1:A:1808:ARG:NH1	1:A:1858:ASP:OD2	2.30	0.64
1:C:125:ARG:CB	1:C:134:ASP:CG	2.53	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:E:1579:MET:O	1:E:1582:SER:OG	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4182:GLU:OE2	1:E:5028:PHE:CB	2.45	0.64
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: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:101:LEU:HB3	1:E:150:MET:HE1	1.80	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: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:4010:ILE:HD12	1:E:4010:ILE:C	2.20	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
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: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:101:LEU:HB3	1:A:150:MET:HE1	1.80	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:1705:GLY:C	1:A:1836:PHE:HD2	2.06	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
1:G:3936:TYR:O	1:G:3940:LYS:NZ	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:G:830:ARG:HD3	1:G:1612:PHE:CZ	2.32	0.64
1:G:1705:GLY:C	1:G:1836:PHE:HD2	2.06	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
1:A:4010:ILE:HD12	1:A:4010:ILE:C	2.20	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:C:1705:GLY:C	1:C:1836:PHE:HD2	2.06	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:C:284:HIS:HE2	1:C:286:THR:HG1	1.41	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:C:4010:ILE:HD12	1:C:4010:ILE:C	2.20	0.63
1:E:1705:GLY:C	1:E:1836:PHE:HD2	2.06	0.63
1:E:1727:ARG:NH1	1:E:1851:MET:O	2.31	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: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:3934:TYR:HD1	1:G:3999:MET:HE3	1.64	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:1516:ILE:CB	1:E:1530:THR:HG1	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1516:ILE:CB	1:C:1530:THR:HG1	2.10	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:2246:ASN:O	1:E:2249:SER:OG	2.13	0.63
1:E:3775:ALA:HA	1:E:3778:MET:HG2	1.79	0.63
1:E:3934:TYR:HD1	1:E:3999:MET:HE3	1.64	0.63
1:E:4693:GLY:C	1:E:4695:ASP:N	2.44	0.63
1:G:3775:ALA:HA	1:G:3778:MET:HG2	1.79	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: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:G:628:GLY:O	1:G:630:GLU:N	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:4818:MET:HA	1:A:4824:ARG:HG2	1.79	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:101:LEU:HB3	1:G:150:MET:HE1	1.80	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: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: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:101:LEU:HB3	1:C:150:MET:HE1	1.80	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: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:G:1516:ILE:CB	1:G:1530:THR:HG1	2.11	0.62
1:A:252:VAL:HG23	1:A:257:ARG:HE	1.63	0.62
1:A:1965:TYR:HH	1:A:1969:LEU:HD13	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: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:3934:TYR:HD1	1:A:3999:MET:HE3	1.64	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:A:4010:ILE:O	1:A:4011:GLU:C	2.42	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:C:3934:TYR:HD1	1:C:3999:MET:HE3	1.64	0.62
1:E:835:ARG:NH2	1:E:1093:GLU:OE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1705:GLY:C	1:E:1836:PHE:CE2	2.78	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
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:49:LEU:HD11	1:G:189:LEU:CA	2.27	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: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:1240:LYS:NZ	1:E:1610:ASN:HD22	1.97	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:1705:GLY:C	1:G:1836:PHE:CE2	2.78	0.62
1:G:1706:PRO:N	1:G:1836:PHE:CE2	2.67	0.62
1:G:4010:ILE:O	1:G:4011:GLU:C	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:806:PRO:O	1:C:808:TYR:N	2.33	0.62
1:E:2907:PRO:O	1:E:2910:THR:OG1	2.14	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
1:G:2907:PRO:O	1:G:2910:THR:OG1	2.14	0.62
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:161:GLU:CD	1:G:164:ARG:NH2	2.58	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:161:GLU:CD	1:A:164:ARG:NH2	2.58	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:3794:VAL:O	1:C:3797:THR:OG1	2.18	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: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:A:1705:GLY:C	1:A:1836:PHE:CE2	2.78	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:4010:ILE:O	1:C:4011:GLU:C	2.42	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:2095:GLN:NE2	1:E:2127:GLN:O	2.32	0.62
1:G:1579:MET:O	1:G:1582:SER:OG	2.15	0.62
1:G:2283:ASN:HB2	1:G:2286:LEU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1739:THR:O	1:A:1742:THR:OG1	2.17	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:2211:MET:HE2	1:C:2272:PRO:HB3	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:1240:LYS:NZ	1:A:1610:ASN:HD22	1.97	0.61
1:A:1857:GLU:H	1:A:1857:GLU:CD	1.97	0.61
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:125:ARG:CB	1:G:134:ASP:CG	2.53	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:1240:LYS:NZ	1:C:1610:ASN:HD22	1.97	0.61
1:C:1705:GLY:C	1:C:1836:PHE:CE2	2.78	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:161:GLU:CD	1:E:164:ARG:NH2	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4180:ARG:HB3	1:E:4194:TYR:HD1	1.66	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:1739:THR:O	1:G:1742:THR:OG1	2.17	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:2211:MET:HE2	1:E:2272:PRO:HB3	1.82	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
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:161:GLU:CD	1:C:164:ARG:NH2	2.58	0.61
1:C:4032:GLU:HB2	1:C:5006:GLN:CD	2.26	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1098:GLY:HA3	1:C:1198:GLN:HE21	1.65	0.61
1:C:3936:TYR:O	1:C:3940:LYS:NZ	2.26	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:A:4032:GLU:HB2	1:A:5006:GLN:CD	2.26	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
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:1743:ARG:CD	1:A:1963:GLU:HG3	2.29	0.61
1:A:2211:MET:HE2	1:A:2272:PRO:HB3	1.82	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:1739:THR:O	1:C:1742:THR:OG1	2.17	0.60
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: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:3669:PHE:HE1	1:G:3670:GLU:OE1	1.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:4010:ILE:O	1:E:4011:GLU:C	2.42	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:2211:MET:HE2	1:G:2272:PRO:HB3	1.82	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
1:C:2299:VAL:HG21	1:C:2356:LEU:HB3	1.82	0.60
2:D:26:TYR:C	2:D:39:SER:OG	2.45	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:E:4032:GLU:HB2	1:E:5006:GLN:CD	2.26	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1965:TYR:HH	1:C:1969:LEU:HD13	1.65	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:210:GLU:HG2	1:A:334:MET:HE1	1.84	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
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
2:F:26:TYR:C	2:F:39:SER:OG	2.45	0.60
1:G:592:LYS:HE3	1:G:1596:GLU:OE2	2.01	0.60
1:G:2066:LEU:O	1:G:2069:THR:OG1	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1965:TYR:HH	1:G:1969:LEU:HD13	1.67	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
2:B:26:TYR:C	2:B:39:SER:OG	2.45	0.60
1:C:210:GLU:HG2	1:C:334:MET:HE1	1.84	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:H:26:TYR:C	2:H:39:SER:OG	2.45	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
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:HH22	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:157:ARG:HH22	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:4032:GLU:HB2	1:G:5006:GLN:CD	2.26	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
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:2208:MET:HE1	1:C:2253:HIS:CD2	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:2208:MET:HE1	1:G:2253:HIS:CD2	2.38	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: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:2100:HIS:O	1:E:2104:ARG:HG2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:2208:MET:HE1	1:E:2253:HIS:CD2	2.38	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
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:1763:PRO:HG3	1:E:2094:LEU:HD22	1.85	0.59
1:E:2227:LYS:O	1:E:2230:THR:OG1	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:C:2149:VAL:O	1:C:2152:THR:OG1	2.19	0.58
1:E:210:GLU:HG2	1:E:334:MET:HE1	1.84	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:210:GLU:HG2	1:G:334:MET:HE1	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:E:3669:PHE:HE1	1:E:3670:GLU:OE1	1.81	0.58
1:G:755:ILE:HB	1:G:768:PHE:HB2	1.86	0.58
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:3794:VAL:O	1:E:3797:THR:OG1	2.18	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:A:2208:MET:HE1	1:A:2253:HIS:CD2	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:4631:PHE:HZ	1:C:4639:MET:HE2	1.69	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:755:ILE:HB	1:C:768:PHE:HB2	1.86	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:4631:PHE:HZ	1:E:4639:MET:HE2	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: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
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: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:3963:ASN:O	1:A:3966:THR:OG1	2.15	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: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:A:4693:GLY:C	1:A:4695:ASP:N	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4631:PHE:HZ	1:A:4639:MET:HE2	1.69	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:1452:TRP:CG	1:E:1527:MET:CE	2.74	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:E:161:GLU:HG3	1:G:3984:ARG:CD	2.35	0.57
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:4631:PHE:HZ	1:G:4639:MET:HE2	1.69	0.57
1:G:4984:ASN:OD1	1:G:4987:ASN:ND2	2.38	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:1452:TRP:CG	1:C:1527:MET:CE	2.74	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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:HD2	1:A:134:ASP:OD2	2.02	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: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:273:HIS:HE1	1:G:334:MET:CE	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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: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:1018:ASN:CG	1:A:1019:PRO:HD2	2.31	0.56
1:A:2465:UNK:O	1:A:2467:UNK:N	2.37	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: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:1018:ASN:CG	1:E:1019:PRO:HD2	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:70:GLU:C	1:E:71:GLN:CG	2.79	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:G:1452:TRP:HD1	1:G:1527:MET:HE3	1.70	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: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:4195:PHE:CD1	1:G:4195:PHE:C	2.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:1210:SER:HA	1:G:1213:PHE:CZ	2.40	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:1018:ASN:CG	1:C:1019:PRO:HD2	2.31	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:1452:TRP:HD1	1:E:1527:MET:HE3	1.70	0.56
1:E:1848:LEU:CG	1:E:1854:PHE:CZ	2.88	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:640:TYR:HA	1:G:1636:MET:HE3	1.89	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:592:LYS:HE3	1:C:1596:GLU:CD	2.31	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:1766:GLY:N	1:C:1856:ASP:CG	2.64	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:640:TYR:HA	1:E:1636:MET:HE3	1.89	0.55
1:E:1866:ILE:HG12	1:E:1939:MET:HE1	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:E:3790:THR:HG22	1:E:3835:LEU:HG	1.86	0.55
1:G:592:LYS:HE3	1:G:1596:GLU:CD	2.31	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:1018:ASN:CG	1:G:1019:PRO:HD2	2.31	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:273:HIS:CE1	1:A:334:MET:HE1	2.40	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:A:4195:PHE:CD1	1:A:4195:PHE:C	2.84	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:70:GLU:C	1:A:71:GLN:CG	2.79	0.55
1:A:806:PRO:O	1:A:808:TYR:HD1	1.89	0.55
1:A:1766:GLY:N	1:A:1856:ASP:CG	2.64	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:4195:PHE:C	1:C:4195:PHE:CD1	2.84	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
1:G:1705:GLY:CA	1:G:1836:PHE:HD2	2.19	0.55
1:G:1866:ILE:HG12	1:G:1939:MET:HE1	1.88	0.55
1:G:2227:LYS:O	1:G:2230:THR:OG1	2.18	0.55
1:G:2453:ILE:HA	1:G:2456:ILE:HG22	1.87	0.55
1:G:3963:ASN:O	1:G:3966:THR:OG1	2.15	0.55
1:A:42:PHE:HD1	1:A:447:ASP:CG	2.15	0.55
1:A:671:VAL:HG22	1:A:787:VAL:HG13	1.88	0.55
1:A:4195:PHE:CE1	1:A:4197:ILE:HG12	2.30	0.55
1:C:42:PHE:HD1	1:C:447:ASP:CG	2.15	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:42:PHE:HD1	1:E:447:ASP:CG	2.15	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:628:GLY:C	1:E:630:GLU:H	2.15	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:4195:PHE:C	1:E:4195:PHE:CD1	2.84	0.55
1:E:4680:LYS:C	1:E:4684:ASP:HB2	2.32	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:A:1866:ILE:HG12	1:A:1939:MET:HE1	1.88	0.55
1:C:273:HIS:CE1	1:C:334:MET:HE1	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1018:ASN:HB3	1:E:1021:LEU:CG	2.36	0.55
1:E:1766:GLY:N	1:E:1856:ASP:CG	2.64	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:2498:HIS:O	1:G:2501:SER:OG	2.22	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
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:G:4680:LYS:C	1:G:4684:ASP:HB2	2.32	0.55
1:G:4693:GLY:C	1:G:4695:ASP:N	2.44	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
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:70:GLU:C	1:C:71:GLN:CG	2.79	0.55
1:C:546:TRP:O	1:C:550:LYS:HG2	2.07	0.55
1:C:640:TYR:HA	1:C:1636:MET:HE3	1.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:40:ARG:C	2:H:43:ASN:H	2.14	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:2816:MET:HE3	1:A:2821:TRP:HE3	1.72	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:1866:ILE:HG12	1:C:1939:MET:HE1	1.88	0.55
1:C:3678:SER:HA	1:C:3773:ARG:HH12	1.71	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
1:A:167:ASP:OD1	1:C:384:MET:HE3	2.03	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
1:E:220:LEU:HD11	1:E:390:LEU:HD22	1.88	0.55
1:E:273:HIS:HE1	1:E:334:MET:CE	2.18	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:2816:MET:HE3	1:G:2821:TRP:HE3	1.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1452:TRP:HD1	1:A:1527:MET:HE3	1.70	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:2816:MET:HE3	1:C:2821:TRP:HE3	1.72	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:HD1	1:G:447:ASP:CG	2.15	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:2149:VAL:O	1:G:2152:THR:OG1	2.19	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
1:G:3897:ASN:O	1:G:3901:ASN:ND2	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:465:GLN:NE2	1:E:3712:GLU:OE1	2.39	0.54
1:E:2816:MET:HE3	1:E:2821:TRP:HE3	1.72	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:1766:GLY:N	1:G:1856:ASP:CG	2.64	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:640:TYR:HA	1:A:1636:MET:HE3	1.89	0.54
1:A:1078:GLU:OE1	1:A:1235:THR:OG1	2.25	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:70:GLU:C	1:G:71:GLN:CG	2.79	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:1452:TRP:CG	1:G:1527:MET:CE	2.74	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: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
2:B:40:ARG:C	2:B:43:ASN:H	2.14	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:F:40:ARG:C	2:F:43:ASN:H	2.14	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:273:HIS:CE1	1:E:334:MET:HE1	2.40	0.54
1:E:904:HIS:CG	1:E:905:PRO:HD2	2.43	0.54
1:E:2822:THR:OG1	1:E:2938:THR:OG1	2.24	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: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
1:G:273:HIS:CE1	1:G:334:MET:HE1	2.40	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:4680:LYS:C	1:C:4684:ASP:HB2	2.32	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:156:GLN:HE22	1:G:225:GLY:C	2.16	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1255:TYR:CZ	1:A:1287:LEU:HD11	2.43	0.54
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:1581:LEU:HD13	1:A:1594:ARG:C	2.33	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:225:GLY:C	1:G:156:GLN:HE22	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:THR:HA	2:B:38:SER:HA	1.90	0.53
1:C:156:GLN:HE22	1:E:225:GLY:C	2.16	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
1:E:681:HIS:C	1:E:681:HIS:CD2	2.86	0.53
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:628:GLY:C	1:G:630:GLU:H	2.15	0.53
1:G:681:HIS:C	1:G:681:HIS:CD2	2.86	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:827:LYS:O	1:A:828:GLU:HB3	2.08	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:3878:ASP:O	1:A:3881:THR:OG1	2.18	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:4680:LYS:C	1:A:4684:ASP:HB2	2.32	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
2:D:40:ARG:C	2:D:43:ASN:H	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:3891:LEU:HB3	1:G:3899:PHE:CE2	2.44	0.53
1:A:681:HIS:C	1:A:681:HIS:CD2	2.86	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:A:626:LEU:HB3	1:A:1688:HIS:CE1	2.43	0.53
1:A:628:GLY:C	1:A:630:GLU:H	2.15	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:A:4182:GLU:CD	1:A:4982:GLU:OE1	2.52	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3878:ASP:O	1:E:3881:THR:OG1	2.18	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
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
1:A:273:HIS:HE1	1:A:334:MET:CE	2.18	0.53
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:681:HIS:C	1:C:681:HIS:CD2	2.86	0.53
1:C:909:ASN:O	1:C:912:SER:OG	2.22	0.53
1:C:1211:LEU:HD23	1:C:1212:ARG:HG3	1.90	0.53
1:C:3993:LEU:C	1:C:4054:ASN:HD21	2.17	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:827:LYS:O	1:E:828:GLU:HB3	2.08	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:683:ARG:HH22	1:G:722:TRP:CD1	2.27	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:156:GLN:HE22	1:C:225:GLY:C	2.16	0.53
1:A:592:LYS:HE3	1:A:1596:GLU:CD	2.31	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:1581:LEU:HD13	1:E:1594:ARG:C	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:683:ARG:HH22	1:E:722:TRP:CD1	2.27	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:G:1581:LEU:HD13	1:G:1594:ARG:C	2.33	0.53
1:A:565:TYR:HB2	1:A:602:VAL:HG22	1.91	0.53
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2517:PHE:O	1:C:2521:VAL:HG23	2.09	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:G:3993:LEU:C	1:G:4054:ASN:HD21	2.17	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
1:C:1581:LEU:HD13	1:C:1594:ARG:C	2.33	0.52
1:C:3878:ASP:O	1:C:3881:THR:OG1	2.18	0.52
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:1733:GLU:CD	1:G:2163:ARG:HH22	2.17	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:1733:GLU:CD	1:A:2163:ARG:HH22	2.17	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:1452:TRP:HD1	1:C:1527:MET:HE3	1.70	0.52
1:C:4686:LEU:CD2	1:C:4687:TYR:CE1	2.85	0.52
1:E:520:ASN:CG	1:E:556:ALA:HB1	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3993:LEU:C	1:E:4054:ASN:HD21	2.17	0.52
1:E:4182:GLU:CD	1:E:4982:GLU:OE1	2.52	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:273:HIS:HE1	1:G:334:MET:HE1	1.75	0.52
1:G:3842:LEU:HD13	1:G:3954:ALA:HB2	1.91	0.52
1:G:4182:GLU:CD	1:G:4982:GLU:OE1	2.52	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:384:MET:HE3	1:G:167:ASP:OD1	2.03	0.52
1:A:425:PRO:HA	1:A:506:TYR:HA	1.91	0.52
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1478:ASP:C	1:A:1480:GLN:N	2.68	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:3729:MET:O	1:A:3732:SER:OG	2.23	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:C:4693:GLY:C	1:C:4695:ASP:N	2.44	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: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: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
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:520:ASN:CG	1:G:556:ALA:HB1	2.35	0.51
1:G:554:LEU:HD21	1:G:1597:VAL:CG2	2.33	0.51
1:G:1286:MET:HE3	1:G:1555:LEU:HD11	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3993:LEU:C	1:A:4054:ASN:HD21	2.17	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:683:ARG:HH22	1:C:722:TRP:CD1	2.27	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:273:HIS:HE1	1:E:334:MET:HE1	1.75	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:520:ASN:CG	1:C:556:ALA:HB1	2.35	0.51
1:C:628:GLY:C	1:C:630:GLU:H	2.15	0.51
1:C:4182:GLU:CD	1:C:4982:GLU:OE1	2.52	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
1:E:2902:HIS:H	1:E:2905:LEU:HD12	1.75	0.51
1:E:4692:PRO:HG2	1:E:4700:GLN:CD	2.33	0.51
1:E:4692:PRO:CG	1:E:4700:GLN:CD	2.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:40:GLU:HB2	1:A:48:PHE:HE2	1.74	0.51
1:A:683:ARG:HH22	1:A:722:TRP:CD1	2.27	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:438:ILE:HG23	1:C:518:ILE:HD11	1.92	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:E:4179:GLY:C	1:E:4195:PHE:CE2	2.89	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:520:ASN:CG	1:A:556:ALA:HB1	2.35	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:4692:PRO:HG2	1:G:4700:GLN:CD	2.33	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: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:829:TYR:OH	1:A:1616:GLU:OE1	2.28	0.51
1:A:3997:ALA:O	1:A:4000:MET:HG2	2.11	0.51
1:A:4179:GLY:C	1:A:4195:PHE:CE2	2.89	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:1733:GLU:CD	1:C:2163:ARG:HH22	2.17	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
1:E:1295:VAL:O	1:E:1547:LYS:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1733:GLU:CD	1:E:2163:ARG:HH22	2.17	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: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: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:C:4179:GLY:C	1:C:4195:PHE:CE2	2.89	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:3669:PHE:O	1:E:3670:GLU:C	2.54	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:4179:GLY:C	1:G:4195:PHE:CE2	2.89	0.51
1:G:4690:GLU:O	1:G:4691:GLN:HG2	2.11	0.51
1:G:4692:PRO:CG	1:G:4700:GLN:CD	2.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:21:THR:HB	2:D:107:GLU:HB2	1.93	0.51
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: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: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:C:3669:PHE:CD1	1:C:3669:PHE:C	2.87	0.51
1:C:4692:PRO:CG	1:C:4700:GLN:CD	2.84	0.51
2:D:26:TYR:C	2:D:39:SER:HG	2.07	0.51
1:E:276:TRP:CD1	1:E:338:GLU:CD	2.89	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: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: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:4904:PRO:CD	1:G:4913:ARG:HH11	2.24	0.50
1:A:276:TRP:CD1	1:A:338:GLU:CD	2.89	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:A:4692:PRO:CG	1:A:4700:GLN:CD	2.84	0.50
1:C:37:LEU:HD11	1:C:47:CYS:HB3	1.93	0.50
1:C:276:TRP:CD1	1:C:338:GLU:CD	2.89	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: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:1729:SER:O	1:E:1732:SER:OG	2.23	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:2256:TYR:O	1:G:2260:ASN:CG	2.55	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:750:LEU:O	1:G:751:SER:OG	2.23	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:1965:TYR:CD1	1:A:1965:TYR:C	2.90	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:167:ASP:OD1	1:E:384:MET:HE3	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:21:THR:HB	2:F:107:GLU:HB2	1.93	0.50
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:2256:TYR:O	1:A:2260:ASN:CG	2.55	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: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:1965:TYR:CD1	1:C:1965:TYR:C	2.90	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:2256:TYR:O	1:E:2260:ASN:CG	2.55	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:1965:TYR:CD1	1:G:1965:TYR:C	2.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:C:2256:TYR:O	1:C:2260:ASN:CG	2.55	0.50
1:E:1286:MET:HE3	1:E:1555:LEU:HD11	1.91	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:234:SER:O	1:G:242:ARG:NH1	2.45	0.50
1:G:276:TRP:CD1	1:G:338:GLU:CD	2.89	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:4000:MET:HE2	1:A:4061:PHE:CD2	2.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1762:LEU:CD1	1:C:1762:LEU:C	2.85	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
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:4000:MET:HE2	1:E:4061:PHE:CD2	2.47	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:829:TYR:OH	1:G:1616:GLU:OE1	2.28	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
1:C:13:PHE:CD1	1:C:13:PHE:N	2.79	0.49
1:C:273:HIS:HE1	1:C:334:MET:HE1	1.75	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:C:4000:MET:HE2	1:C:4061:PHE:CD2	2.47	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
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:1762:LEU:CD1	1:G:1762:LEU:C	2.85	0.49
1:G:2247:GLN:HE21	1:G:2279:SER:C	2.20	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: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:3936:TYR:O	1:A:3940:LYS:NZ	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1762:LEU:CD1	1:E:1762:LEU:C	2.85	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
1:G:4055:VAL:HG13	1:G:4058:ILE:HD11	1.94	0.49
1:A:273:HIS:HE1	1:A:334:MET:HE1	1.75	0.49
1:A:515:TRP:HH2	1:A:555:GLU:HG3	1.65	0.49
1:A:1762:LEU:CD1	1:A:1762:LEU:C	2.85	0.49
1:A:3669:PHE:O	1:A:3670:GLU:C	2.54	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:4687:TYR:CD1	1:C:4687:TYR:N	2.80	0.49
1:E:793:LEU:HD22	1:E:811:CYS:HB3	1.92	0.49
1:E:1132:TRP:CD1	1:E:1135:GLY:C	2.91	0.49
1:E:1240:LYS:O	1:E:1607:ARG:HA	2.13	0.49
1:E:1965:TYR:C	1:E:1965:TYR:CD1	2.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2247:GLN:HE21	1:A:2279:SER:C	2.20	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
1:C:273:HIS:HE1	1:C:334:MET:CE	2.18	0.49
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: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:1132:TRP:CD1	1:A:1135:GLY:C	2.91	0.49
1:A:1944:GLU:HB2	1:A:2123:LEU:HD11	1.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:4000:MET:HE2	1:G:4061:PHE:CD2	2.47	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: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:1132:TRP:CD1	1:C:1135:GLY:C	2.91	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
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:592:LYS:HE3	1:E:1596:GLU:CD	2.31	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:3767:GLN:CD	1:E:3809:ASN:HD21	2.21	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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: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:1207:ASP:O	1:C:1210:SER:OG	2.24	0.48
1:C:1475:THR:HA	1:C:1486:SER:HA	1.94	0.48
1:C:1727:ARG:HD2	1:C:1772:ARG:HD3	1.95	0.48
1:C:3669:PHE:O	1:C:3670:GLU:C	2.54	0.48
1:C:3767:GLN:CD	1:C:3809:ASN:HD21	2.21	0.48
1:C:3983:SER:C	1:C:3985:LEU:H	2.21	0.48
1:C:4181:ILE:HG23	1:C:4195:PHE:CE2	2.48	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:1047:LEU:C	1:E:1050:GLY:H	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1047:LEU:C	1:G:1050:GLY:H	2.21	0.48
1:G:3767:GLN:CD	1:G:3809:ASN:HD21	2.21	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:A:3767:GLN:CD	1:A:3809:ASN:HD21	2.21	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
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: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:2380:ILE:HG23	1:A:2423:MET:HE1	1.96	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:829:TYR:OH	1:C:1616:GLU:OE1	2.28	0.48
1:C:1518:CYS:HB3	1:C:1528:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1132:TRP:CD1	1:G:1135:GLY:C	2.91	0.48
1:G:1838:PHE:O	1:G:1839:VAL:C	2.57	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: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
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:1838:PHE:O	1:C:1839:VAL:C	2.57	0.48
1:C:2247:GLN:HE21	1:C:2279:SER:C	2.20	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:2247:GLN:HE21	1:E:2279:SER:C	2.20	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:1207:ASP:O	1:G:1210:SER:OG	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3766:GLN:HG3	1:A:3769:ARG:NH2	2.28	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: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:2380:ILE:HG23	1:C:2423:MET:HE1	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: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:G:3983:SER:C	1:G:3985:LEU:H	2.21	0.48
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:3983:SER:C	1:A:3985:LEU:H	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:679:ALA:C	1:E:680:THR:O	2.47	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
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: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: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:1047:LEU:C	1:C:1050:GLY:H	2.21	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1475:THR:HA	1:G:1486:SER:HA	1.94	0.48
1:G:3729:MET:O	1:G:3732:SER:OG	2.23	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: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:1047:LEU:C	1:A:1050:GLY:H	2.21	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:A:4083:ASP:CG	1:A:4087:LEU:O	2.56	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: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
1:E:1965:TYR:HH	1:E:1969:LEU:HD13	1.79	0.48
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:4010:ILE:CD1	1:A:4010:ILE:C	2.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3669:PHE:O	1:G:3670:GLU:C	2.54	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: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:679:ALA:C	1:C:680:THR:O	2.47	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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:4083:ASP:CG	1:G:4087:LEU:O	2.56	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:1478:ASP:C	1:C:1480:GLN:N	2.68	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1730:MET:HE1	1:G:2159:LEU:HB2	1.96	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
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:HH22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2259:GLU:HA	1:G:2301:TYR:OH	2.15	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:457:GLU:HG3	1:A:464:LYS:HZ1	1.78	0.47
1:A:1730:MET:HE1	1:A:2159:LEU:HB2	1.96	0.47
1:A:1838:PHE:O	1:A:1839:VAL:C	2.57	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:C:750:LEU:O	1:C:751:SER:OG	2.23	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
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:3729:MET:O	1:E:3732:SER:OG	2.23	0.47
1:E:3957:VAL:O	1:E:3961:VAL:HG23	2.13	0.47
1:E:3983:SER:C	1:E:3985:LEU:H	2.21	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
1:G:2380:ILE:HG23	1:G:2423:MET:HE1	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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:A:909:ASN:O	1:A:912:SER:OG	2.22	0.47
1:A:1111:PRO:HB3	1:A:1609:PRO:HG3	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:4638:TYR:C	1:C:4641:PRO:HD2	2.39	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
1:E:2380:ILE:HG23	1:E:2423:MET:HE1	1.96	0.47
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:309:THR:O	1:G:313:SER:OG	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:4638:TYR:C	1:A:4641:PRO:HD2	2.39	0.47
1:C:537:CYS:SG	1:C:567:VAL:HA	2.54	0.47
1:C:804:PRO:C	1:C:806:PRO:N	2.73	0.47
1:C:1730:MET:HE1	1:C:2159:LEU:HB2	1.96	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: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: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:3999:MET:HE2	1:A:3999:MET:HA	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:4638:TYR:C	1:G:4641:PRO:HD2	2.39	0.47
1:A:515:TRP:HA	1:A:518:ILE:HD12	1.97	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:4687:TYR:CD1	1:A:4687:TYR:N	2.80	0.47
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: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:4083:ASP:CG	1:E:4087:LEU:O	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4179:GLY:O	1:E:4195:PHE:CE2	2.67	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: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:1152:MET:HE1	1:C:1217:CYS:SG	2.55	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: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:1730:MET:HE1	1:E:2159:LEU:HB2	1.96	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:4638:TYR:C	1:E:4641:PRO:HD2	2.39	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:2191:PHE:HD1	1:A:2198:MET:HE2	1.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:167:ASP:OD1	1:G:384:MET:HE3	2.03	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:3999:MET:HE2	1:E:3999:MET:HA	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:1152:MET:HE1	1:A:1217:CYS:SG	2.55	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: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
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:1286:MET:HE3	1:C:1555:LEU:HD11	1.91	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3999:MET:HA	1:C:3999:MET:HE2	1.97	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:2191:PHE:HD1	1:E:2198:MET:HE2	1.81	0.46
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:1819:VAL:HG23	1:G:1865:MET:HE3	1.97	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:554:LEU:CD1	1:A:593:HIS:HE2	2.25	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:2198:MET:HE2	1:A:2203:MET:HE1	1.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2760:GLU:O	1:C:2764:GLU:HG3	2.16	0.46
1:E:909:ASN:O	1:E:912:SER:OG	2.22	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: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: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:A:4825:THR:O	1:A:4829:SER:OG	2.27	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:1838:PHE:O	1:E:1839:VAL:C	2.57	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
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:1478:ASP:C	1:A:1480:GLN:H	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1767:VAL:C	1:E:1769:THR:HG23	2.40	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:1152:MET:HE1	1:G:1217:CYS:SG	2.55	0.46
1:G:1815:LEU:HB3	1:G:1865:MET:SD	2.55	0.46
1:G:2191:PHE:HD1	1:G:2198:MET:HE2	1.81	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:1767:VAL:C	1:A:1769:THR:HG23	2.40	0.46
1:A:1958:LEU:HD11	1:A:3657:TYR:HE2	1.81	0.46
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1152:MET:HE1	1:E:1217:CYS:SG	2.55	0.46
1:E:1246:GLU:C	1:E:1602:PRO:HB3	2.41	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: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:1246:GLU:C	1:G:1602:PRO:HB3	2.41	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:472:ARG:NH1	1:A:532:GLY:HA2	2.31	0.46
1:A:804:PRO:C	1:A:806:PRO:N	2.73	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
1:C:156:GLN:NE2	1:E:225:GLY:C	2.74	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1291:LEU:HD11	1:E:1599:MET:HE3	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:3696:ASP:O	1:G:3700:GLN:HG2	2.16	0.46
1:G:3999:MET:HE2	1:G:3999:MET:HA	1.97	0.46
1:G:4705:VAL:HB	1:G:4778:TRP:CD2	2.51	0.46
1:A:156:GLN:NE2	1:C:225:GLY:C	2.74	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: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:1022:VAL:O	1:C:1023:PRO:C	2.59	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
1:E:1286:MET:HE1	1:E:1555:LEU:HD13	1.89	0.46
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:1286:MET:HE1	1:G:1555:LEU:HD13	1.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3669:PHE:CD1	1:G:3669:PHE:C	2.87	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: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: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: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:1022:VAL:O	1:E:1023:PRO:C	2.59	0.45
1:E:1743:ARG:HD2	1:E:1963:GLU:CG	2.47	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
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:619:ASP:O	1:G:622:THR:OG1	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1819:VAL:HG23	1:A:1865:MET:HE3	1.97	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:472:ARG:HH11	1:C:532:GLY:C	2.24	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:2191:PHE:HD1	1:C:2198:MET:HE2	1.81	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:1819:VAL:HG23	1:E:1865:MET:HE3	1.97	0.45
1:E:1958:LEU:HD11	1:E:3657:TYR:HE2	1.81	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
1:A:225:GLY:C	1:G:156:GLN:NE2	2.74	0.45
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1808:ARG:HA	1:C:1848:LEU:HD21	1.99	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:2151:ASP:OD1	1:E:2188:ASN:ND2	2.50	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: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: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:1018:ASN:CG	1:A:1021:LEU:CD2	2.89	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
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:1291:LEU:HD11	1:C:1599:MET:HE3	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1246:GLU:C	1:A:1602:PRO:HB3	2.41	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:1018:ASN:CG	1:C:1021:LEU:CD2	2.89	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: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
1:E:156:GLN:NE2	1:G:225:GLY:C	2.74	0.45
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:937:CYS:HA	1:G:1055:PRO:HA	1.98	0.45
1:G:1018:ASN:CG	1:G:1021:LEU:CD2	2.89	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: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
1:E:750:LEU:O	1:E:751:SER:OG	2.23	0.45
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:284:HIS:NE2	1:G:286:THR:OG1	2.29	0.45
1:G:404:ILE:HG21	1:G:481:GLU:HG2	1.97	0.45
1:G:679:ALA:C	1:G:680:THR:O	2.47	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:1022:VAL:O	1:G:1023:PRO:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1819:VAL:HG23	1:C:1865:MET:HE3	1.97	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:2126:ARG:HG3	1:E:2133:GLU:CD	2.42	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
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:4802:GLY:CA	1:G:4809:PHE:HB2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1291:LEU:HD11	1:A:1599:MET:HE3	1.98	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:4083:ASP:CG	1:C:4087:LEU:O	2.56	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: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
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:2773:ASN:HD22	1:A:2775:TRP:NE1	2.15	0.44
1:A:3669:PHE:HD1	1:A:3669:PHE:N	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:554:LEU:CD1	1:C:593:HIS:HE2	2.25	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:2126:ARG:HG3	1:C:2133:GLU:CD	2.42	0.44
1:C:2162:ILE:HD13	1:C:2178:MET:HG3	1.98	0.44
1:C:2773:ASN:HD22	1:C:2775:TRP:NE1	2.15	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:1018:ASN:CG	1:E:1021:LEU:CD2	2.89	0.44
1:E:1293:LEU:HD22	1:E:1599:MET:SD	2.57	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:1580:PHE:HE2	1:G:1599:MET:HE1	1.82	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:1767:VAL:C	1:G:1769:THR:HG23	2.40	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:42:ARG:C	2:H:44:LYS:H	2.25	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:2865:VAL:O	1:A:2928:LYS:NZ	2.50	0.44
1:A:3709:ALA:HB2	1:A:3782:MET:SD	2.57	0.44
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1275:ARG:NH1	1:C:1601:MET:HG2	2.31	0.44
1:C:1580:PHE:HE2	1:C:1599:MET:HE1	1.82	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:1452:TRP:CE2	1:E:1519:LEU:HD22	2.53	0.44
1:E:1580:PHE:HE2	1:E:1599:MET:HE1	1.82	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: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: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:1246:GLU:C	1:C:1602:PRO:HB3	2.41	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:804:PRO:C	1:E:806:PRO:N	2.73	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: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
2:F:42:ARG:C	2:F:44:LYS:H	2.25	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
1:G:2256:TYR:CD1	1:G:2260:ASN:ND2	2.63	0.44
1:G:4222:VAL:HB	1:G:4950:VAL:HG22	1.99	0.44
1:G:4825:THR:O	1:G:4829:SER:OG	2.27	0.44
1:G:4978:HIS:O	1:G:4982:GLU:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:2280:VAL:HG11	1:C:2338:ALA:HA	1.98	0.44
1:E:1810:LYS:NZ	1:E:1813:ARG:HH22	2.16	0.44
1:E:2874:MET:HE1	1:E:2937:VAL:HG12	1.99	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:2865:VAL:O	1:G:2928:LYS:NZ	2.50	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
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
2:D:42:ARG:C	2:D:44:LYS:H	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:829:TYR:OH	1:E:1616:GLU:OE1	2.28	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:2126:ARG:HG3	1:G:2133:GLU:CD	2.42	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:2126:ARG:HG3	1:A:2133:GLU:CD	2.42	0.44
1:A:2752:ASP:HA	1:A:2755:ILE:HD12	2.00	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:3709:ALA:HB2	1:C:3782:MET:SD	2.57	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: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:1291:LEU:HD11	1:G:1599:MET:HE3	1.98	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:3802:ILE:HD11	1:G:3883:ASP:O	2.18	0.44
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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
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:2874:MET:HE1	1:A:2937:VAL:HG12	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:804:PRO:C	1:G:806:PRO:N	2.73	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: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:1856:ASP:O	1:G:1859:VAL:HB	2.17	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1667:LEU:HD23	1:C:1710:GLY:C	2.43	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:4044:MET:HE3	1:C:4044:MET:HB2	1.88	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: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
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:384:MET:HE1	1:G:167:ASP:OD2	2.17	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:1022:VAL:O	1:A:1023:PRO:C	2.59	0.43
1:A:1075:PHE:HA	1:A:1237:TRP:O	2.18	0.43
1:A:1100:MET:HE1	1:A:1194:LEU:HD23	2.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3934:TYR:CD1	1:A:3999:MET:HE3	2.50	0.43
1:A:4044:MET:HE3	1:A:4044:MET:HB2	1.88	0.43
1:A:4149:ASN:HA	1:A:4194:TYR:CE2	2.53	0.43
1:A:4794:TRP:CZ2	1:A:4798:MET:HE3	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:3934:TYR:CD1	1:C:3999:MET:HE3	2.50	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:472:ARG:HH11	1:G:532:GLY:C	2.24	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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:4010:ILE:CD1	1:E:4010:ILE:C	2.85	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
1:G:1853:ILE:C	1:G:1854:PHE:CG	2.95	0.43
1:G:2326:CYS:HA	1:G:2329:GLU:HG2	2.01	0.43
1:G:4863:TYR:C	1:G:4875:LYS:HG3	2.43	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
2:B:42:ARG:C	2:B:44:LYS:H	2.25	0.43
1:C:221:ARG:NE	1:C:253:CYS:O	2.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1478:ASP:C	1:E:1480:GLN:H	2.11	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
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:1580:PHE:HE2	1:A:1599:MET:HE1	1.82	0.43
1:A:1835:GLU:HG3	1:A:1932:PRO:CB	2.49	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:4863:TYR:C	1:A:4875:LYS:HG3	2.43	0.43
1:A:4983:HIS:O	1:A:4985:LEU:N	2.52	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:746:CYS:HG	1:C:757:PHE:HE1	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:886:ARG:HB3	1:C:891:TRP:CG	2.53	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:1667:LEU:HD23	1:E:1710:GLY:C	2.43	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
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:1853:ILE:C	1:A:1854:PHE:CG	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:358:THR:OG1	1:C:359:TYR:N	2.46	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:E:4863:TYR:C	1:E:4875:LYS:HG3	2.43	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1810:LYS:NZ	1:A:1813:ARG:HH22	2.16	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:1100:MET:HE1	1:C:1194:LEU:HD23	2.00	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:C:4794:TRP:CZ2	1:C:4798:MET:HE3	2.53	0.43
1:C:4863:TYR:C	1:C:4875:LYS:HG3	2.43	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:1092:PHE:CZ	1:E:1100:MET:HE2	2.54	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:2191:PHE:CD1	1:E:2198:MET:HE2	2.53	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:4794:TRP:CZ2	1:E:4798:MET:HE3	2.53	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2874:MET:HE1	1:G:2937:VAL:HG12	1.99	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:3669:PHE:CD1	1:A:3669:PHE:C	2.87	0.43
1:A:3992:PHE:O	1:A:3996:PHE:CD2	2.71	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:274:LEU:HD12	1:C:278:GLN:NE2	2.34	0.43
1:C:1078:GLU:HA	1:C:1237:TRP:CE2	2.53	0.43
1:C:1092:PHE:CZ	1:C:1100:MET:HE2	2.54	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:2874:MET:HE1	1:C:2937:VAL:HG12	1.99	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:1092:PHE:CZ	1:G:1100:MET:HE2	2.54	0.43
1:G:1217:CYS:HA	1:G:1220:GLN:CD	2.44	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2191:PHE:CD1	1:C:2198:MET:HE2	2.53	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: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:1667:LEU:HD23	1:G:1710:GLY:C	2.43	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:2198:MET:HE2	1:G:2203:MET:HE1	1.85	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:223:PHE:HE1	1:A:253:CYS:HG	1.66	0.42
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:1286:MET:HE3	1:A:1555:LEU:HD11	1.91	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
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:2865:VAL:O	1:C:2928:LYS:NZ	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1853:ILE:C	1:E:1854:PHE:CG	2.95	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:2191:PHE:CD1	1:G:2198:MET:HE2	2.53	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:3934:TYR:CD1	1:G:3999:MET:HE3	2.50	0.42
1:G:4010:ILE:CD1	1:G:4010:ILE:C	2.85	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:2191:PHE:CD1	1:A:2198:MET:HE2	2.53	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:555:GLU:C	1:C:555:GLU:CD	2.87	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:C:4178:LEU:C	1:C:4178:LEU:CD1	2.85	0.42
1:C:4961:CYS:HG	1:C:4983:HIS:CD2	2.36	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:1100:MET:HE1	1:E:1194:LEU:HD23	2.00	0.42
1:E:1287:LEU:O	1:E:1553:PHE:HA	2.19	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:2773:ASN:HD22	1:E:2775:TRP:NE1	2.15	0.42
1:E:2821:TRP:HH2	1:E:2877:GLN:HB3	1.84	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:G:4794:TRP:CZ2	1:G:4798:MET:HE3	2.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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:679:ALA:C	1:A:680:THR:O	2.47	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:1667:LEU:HD23	1:A:1710:GLY:C	2.43	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
2:B:26:TYR:C	2:B:39:SER:HG	2.12	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:167:ASP:OD2	1:G:384:MET:HE1	2.17	0.42
1:E:481:GLU:HB3	1:E:483:MET:HE3	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3669:PHE:CD1	1:E:3669:PHE:C	2.87	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
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
1:G:2773:ASN:HD22	1:G:2775:TRP:NE1	2.15	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
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:481:GLU:HB3	1:C:483:MET:HE3	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:555:GLU:C	1:E:555:GLU:CD	2.87	0.42
1:E:638:ILE:HG23	1:E:678:GLN:HE22	1.84	0.42
1:E:1217:CYS:HA	1:E:1220:GLN:CD	2.44	0.42
1:E:1526:LEU:CG	1:E:1541:GLN:CB	2.98	0.42
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:1100:MET:HE1	1:G:1194:LEU:HD23	2.00	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:1217:CYS:HA	1:A:1220:GLN:CD	2.44	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:1729:SER:O	1:A:1732:SER:OG	2.23	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:1762:LEU:CD1	1:C:1863:LEU:HD12	2.50	0.42
1:C:1767:VAL:C	1:C:1769:THR:HG23	2.40	0.42
1:C:4021:LYS:O	1:C:4025:VAL:HG23	2.19	0.42
1:C:4688:ILE:CG2	1:C:4732:PHE:CZ	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:229:GLU:HG3	1:A:248:GLU:C	2.45	0.42
1:A:526:LEU:O	1:A:530:ILE:HD12	2.20	0.42
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:2354:VAL:HB	1:G:2453:ILE:HD11	2.02	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:555:GLU:CD	1:A:555:GLU:C	2.87	0.42
1:A:831:ARG:HG3	1:A:840:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:167:ASP:OD2	1:E:384:MET:HE1	2.17	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
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:2186:MET:HE1	1:E:2238:TYR:CD2	2.55	0.42
1:E:3696:ASP:O	1:E:3700:GLN:N	2.49	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:1699:GLU:OE2	1:A:1810:LYS:NZ	2.52	0.42
1:A:1958:LEU:HD11	1:A:3657:TYR:CE2	2.54	0.42
1:A:2058:SER:O	1:A:2061:SER:OG	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3916:ILE:O	1:E:3920:VAL:HG23	2.20	0.42
1:G:555:GLU:C	1:G:555:GLU:CD	2.87	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
1:A:886:ARG:C	1:A:891:TRP:HB2	2.45	0.42
1:A:1092:PHE:CZ	1:A:1100:MET:HE2	2.54	0.42
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:2186:MET:HE1	1:A:2238:TYR:CD2	2.55	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:229:GLU:HG3	1:C:248:GLU:C	2.45	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:229:GLU:HG3	1:E:248:GLU:C	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3805:LEU:O	1:G:3806:ASN:C	2.63	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:481:GLU:HB3	1:A:483:MET:HE3	2.02	0.41
1:A:551:LEU:HA	1:A:560:ILE:HG21	2.01	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:721:LEU:C	1:C:721:LEU:CD1	2.90	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
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:886:ARG:C	1:E:891:TRP:HB2	2.45	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:1782:PHE:O	2:B:82:TYR:OH	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1217:CYS:HA	1:C:1220:GLN:CD	2.44	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:2882:TYR:HB3	1:C:2919:ASP:CG	2.45	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:3805:LEU:O	1:E:3806:ASN:C	2.63	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
1:E:4986:ALA:O	1:E:4989:MET:HB3	2.20	0.41
1:G:481:GLU:HB3	1:G:483:MET:HE3	2.02	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2186:MET:HE1	1:C:2238:TYR:CD2	2.55	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:229:GLU:HG3	1:G:248:GLU:C	2.45	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:2186:MET:HE1	1:G:2238:TYR:CD2	2.55	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:167:ASP:OD2	1:C:384:MET:HE1	2.17	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
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:2882:TYR:HB3	1:A:2919:ASP:CG	2.45	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:886:ARG:C	1:C:891:TRP:HB2	2.45	0.41
1:C:1808:ARG:HB2	1:C:1854:PHE:CD1	2.52	0.41
1:C:1853:ILE:C	1:C:1854:PHE:CG	2.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:C:3805:LEU:O	1:C:3806:ASN:C	2.63	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:358:THR:OG1	1:G:359:TYR:N	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:886:ARG:C	1:G:891:TRP:HB2	2.45	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:G:2882:TYR:HB3	1:G:2919:ASP:CG	2.45	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
1:A:548:VAL:HG11	1:A:582:HIS:HA	2.02	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:4633:GLU:CD	1:A:4637:GLY:HA2	2.46	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: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:4633:GLU:CD	1:C:4637:GLY:HA2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:472:ARG:HH11	1:E:532:GLY:C	2.24	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: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:1018:ASN:CG	1:A:1021:LEU:HD21	2.42	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
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:1927:LEU:HD23	1:A:2101:MET:HE3	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
1:E:2105:TRP:HB2	1:E:2120:MET:HE3	2.03	0.41
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:3934:TYR:CD1	1:E:3999:MET:HE3	2.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:4633:GLU:CD	1:G:4637:GLY:HA2	2.46	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:1276:THR:C	1:A:1277:TRP:HD1	2.29	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:206:CYS:HB3	1:C:271:GLY:C	2.46	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:1856:ASP:O	1:C:1859:VAL:N	2.54	0.41
1:C:1927:LEU:HD23	1:C:2101:MET:HE3	2.03	0.41
1:C:1961:PHE:CG	1:C:2066:LEU:HG	2.56	0.41
1:C:2105:TRP:HB2	1:C:2120:MET:HE3	2.03	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
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:1927:LEU:HD23	1:E:2101:MET:HE3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:334:MET:HE2	1:C:334:MET:HB2	1.95	0.40
1:C:941:MET:HA	1:C:1051:TYR:HD1	1.86	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:2882:TYR:CB	1:C:2919:ASP:CG	2.94	0.40
1:C:3716:LEU:HB3	1:C:3793:MET:HE1	2.03	0.40
1:C:4010:ILE:CD1	1:C:4010:ILE:C	2.85	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:1276:THR:C	1:E:1277:TRP:HD1	2.29	0.40
1:E:1698:LEU:HA	1:E:1712:TYR:CE1	2.56	0.40
1:E:1699:GLU:OE2	1:E:1810:LYS:NZ	2.52	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
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:4044:MET:HE3	1:E:4044:MET:HB2	1.88	0.40
1:E:4191:GLU:OE1	1:E:5006:GLN:NE2	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4633:GLU:CD	1:E:4637:GLY:HA2	2.46	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:1927:LEU:HD23	1:G:2101:MET:HE3	2.03	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: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: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
1:E:1464:MET:O	1:E:1466:PHE:N	2.52	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:161:GLU:OE2	1:C:164:ARG:NH2	2.50	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
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
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:206:CYS:HB3	1:E:271:GLY:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2865:VAL:O	1:E:2928:LYS:NZ	2.50	0.40
1:E:3716:LEU:HB3	1:E:3793:MET:HE1	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: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
1:G:4961:CYS:SG	1:G:4983:HIS:NE2	2.86	0.40
2:H:28:GLY:N	2:H:37:ASP:O	2.39	0.40
1:A:472:ARG:HH11	1:A:532:GLY:C	2.24	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:3805:LEU:O	1:A:3806:ASN:C	2.63	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2882:TYR:CB	1:E:2919:ASP:CG	2.94	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: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:683:ARG:HH12	1:E:722:TRP:CD1	2.39	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
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

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%)	6	32
1	C	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	6	32
1	E	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	6	32
1	G	2991/4599 (65%)	2776 (93%)	155 (5%)	60 (2%)	6	32
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%)	8	32

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 ⓘ

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%)	2438 (97%)	69 (3%)	38	58
1	C	2507/3406 (74%)	2438 (97%)	69 (3%)	38	58
1	E	2507/3406 (74%)	2438 (97%)	69 (3%)	38	58
1	G	2507/3406 (74%)	2438 (97%)	69 (3%)	38	58
2	B	89/89 (100%)	88 (99%)	1 (1%)	65	73
2	D	89/89 (100%)	88 (99%)	1 (1%)	65	73
2	F	89/89 (100%)	88 (99%)	1 (1%)	65	73
2	H	89/89 (100%)	88 (99%)	1 (1%)	65	73
All	All	10384/13980 (74%)	10104 (97%)	280 (3%)	40	59

All (280) 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	161	GLU
1	A	164	ARG
1	A	189	LEU
1	A	190	GLN
1	A	218	HIS
1	A	334	MET
1	A	530	ILE
1	A	554	LEU
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	684	VAL
1	A	721	LEU
1	A	806	PRO
1	A	851	PHE
1	A	859	VAL
1	A	865	PRO
1	A	896	VAL
1	A	916	PRO
1	A	979	PRO
1	A	982	THR
1	A	1001	VAL
1	A	1021	LEU
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

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Mol	Chain	Res	Type
1	A	1856	ASP
1	A	1857	GLU
1	A	2066	LEU
1	A	2919	ASP
1	A	3669	PHE
1	A	3670	GLU
1	A	3708	THR
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	4224	GLU
1	A	4686	LEU
1	A	4689	THR
1	A	4690	GLU
1	A	4691	GLN
1	A	4897	ILE
1	A	4901	ILE
2	B	40	ARG
1	C	13	PHE
1	C	45	ARG
1	C	125	ARG
1	C	156	GLN
1	C	161	GLU
1	C	164	ARG
1	C	189	LEU
1	C	190	GLN
1	C	218	HIS
1	C	334	MET
1	C	530	ILE
1	C	554	LEU
1	C	595	ARG
1	C	596	ASN
1	C	597	HIS
1	C	598	LYS

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Mol	Chain	Res	Type
1	C	680	THR
1	C	681	HIS
1	C	682	LEU
1	C	684	VAL
1	C	721	LEU
1	C	806	PRO
1	C	851	PHE
1	C	859	VAL
1	C	865	PRO
1	C	896	VAL
1	C	916	PRO
1	C	979	PRO
1	C	982	THR
1	C	1001	VAL
1	C	1021	LEU
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	1857	GLU
1	C	2066	LEU
1	C	2919	ASP
1	C	3669	PHE
1	C	3670	GLU
1	C	3708	THR
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

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Mol	Chain	Res	Type
1	C	4106	PRO
1	C	4178	LEU
1	C	4180	ARG
1	C	4189	ARG
1	C	4224	GLU
1	C	4686	LEU
1	C	4689	THR
1	C	4690	GLU
1	C	4691	GLN
1	C	4897	ILE
1	C	4901	ILE
2	D	40	ARG
1	E	13	PHE
1	E	45	ARG
1	E	125	ARG
1	E	156	GLN
1	E	161	GLU
1	E	164	ARG
1	E	189	LEU
1	E	190	GLN
1	E	218	HIS
1	E	334	MET
1	E	530	ILE
1	E	554	LEU
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	684	VAL
1	E	721	LEU
1	E	806	PRO
1	E	851	PHE
1	E	859	VAL
1	E	865	PRO
1	E	896	VAL
1	E	916	PRO
1	E	979	PRO
1	E	982	THR
1	E	1001	VAL

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Mol	Chain	Res	Type
1	E	1021	LEU
1	E	1045	THR
1	E	1055	PRO
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	1857	GLU
1	E	2066	LEU
1	E	2919	ASP
1	E	3669	PHE
1	E	3670	GLU
1	E	3708	THR
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	4224	GLU
1	E	4686	LEU
1	E	4689	THR
1	E	4690	GLU
1	E	4691	GLN
1	E	4897	ILE
1	E	4901	ILE
2	F	40	ARG
1	G	13	PHE
1	G	45	ARG

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Mol	Chain	Res	Type
1	G	125	ARG
1	G	156	GLN
1	G	161	GLU
1	G	164	ARG
1	G	189	LEU
1	G	190	GLN
1	G	218	HIS
1	G	334	MET
1	G	530	ILE
1	G	554	LEU
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	684	VAL
1	G	721	LEU
1	G	806	PRO
1	G	851	PHE
1	G	859	VAL
1	G	865	PRO
1	G	896	VAL
1	G	916	PRO
1	G	979	PRO
1	G	982	THR
1	G	1001	VAL
1	G	1021	LEU
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

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Mol	Chain	Res	Type
1	G	1856	ASP
1	G	1857	GLU
1	G	2066	LEU
1	G	2919	ASP
1	G	3669	PHE
1	G	3670	GLU
1	G	3708	THR
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	4224	GLU
1	G	4686	LEU
1	G	4689	THR
1	G	4690	GLU
1	G	4691	GLN
1	G	4897	ILE
1	G	4901	ILE
2	H	40	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (247) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	57	ASN
1	A	79	GLN
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	278	GLN
1	A	399	GLN
1	A	405	HIS
1	A	465	GLN

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Mol	Chain	Res	Type
1	A	479	GLN
1	A	582	HIS
1	A	593	HIS
1	A	596	ASN
1	A	681	HIS
1	A	991	ASN
1	A	993	HIS
1	A	1127	HIS
1	A	1296	GLN
1	A	1545	ASN
1	A	1558	HIS
1	A	1610	ASN
1	A	1631	GLN
1	A	1660	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	2284	ASN
1	A	2773	ASN
1	A	2856	ASN
1	A	3647	HIS
1	A	3809	ASN
1	A	3813	GLN
1	A	3837	GLN
1	A	3851	ASN
1	A	3895	HIS
1	A	3909	ASN
1	A	3970	GLN
1	A	3977	GLN
1	A	3978	GLN
1	A	3994	HIS
1	A	4020	GLN
1	A	4054	ASN
1	A	4153	HIS
1	A	4650	HIS

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Mol	Chain	Res	Type
1	A	4700	GLN
1	A	4987	ASN
1	A	5031	GLN
2	B	25	HIS
2	B	87	HIS
2	B	94	HIS
1	C	57	ASN
1	C	79	GLN
1	C	105	HIS
1	C	111	HIS
1	C	113	HIS
1	C	156	GLN
1	C	181	HIS
1	C	190	GLN
1	C	399	GLN
1	C	405	HIS
1	C	465	GLN
1	C	479	GLN
1	C	582	HIS
1	C	593	HIS
1	C	596	ASN
1	C	681	HIS
1	C	991	ASN
1	C	993	HIS
1	C	1127	HIS
1	C	1296	GLN
1	C	1545	ASN
1	C	1558	HIS
1	C	1598	GLN
1	C	1610	ASN
1	C	1631	GLN
1	C	1660	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	2196	ASN
1	C	2245	GLN
1	C	2253	HIS
1	C	2284	ASN

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Mol	Chain	Res	Type
1	C	2773	ASN
1	C	2856	ASN
1	C	3647	HIS
1	C	3771	HIS
1	C	3809	ASN
1	C	3813	GLN
1	C	3837	GLN
1	C	3851	ASN
1	C	3895	HIS
1	C	3909	ASN
1	C	3970	GLN
1	C	3977	GLN
1	C	3978	GLN
1	C	3994	HIS
1	C	4020	GLN
1	C	4054	ASN
1	C	4153	HIS
1	C	4650	HIS
1	C	4700	GLN
1	C	4947	GLN
1	C	5031	GLN
2	D	25	HIS
2	D	87	HIS
2	D	94	HIS
1	E	57	ASN
1	E	79	GLN
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	278	GLN
1	E	399	GLN
1	E	405	HIS
1	E	465	GLN
1	E	479	GLN
1	E	582	HIS
1	E	593	HIS
1	E	596	ASN
1	E	647	ASN
1	E	681	HIS

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Mol	Chain	Res	Type
1	E	991	ASN
1	E	993	HIS
1	E	1127	HIS
1	E	1296	GLN
1	E	1545	ASN
1	E	1558	HIS
1	E	1598	GLN
1	E	1610	ASN
1	E	1631	GLN
1	E	1660	GLN
1	E	1696	HIS
1	E	1719	HIS
1	E	1775	HIS
1	E	1837	GLN
1	E	1952	GLN
1	E	2100	HIS
1	E	2196	ASN
1	E	2245	GLN
1	E	2253	HIS
1	E	2260	ASN
1	E	2284	ASN
1	E	2773	ASN
1	E	2856	ASN
1	E	3647	HIS
1	E	3699	HIS
1	E	3771	HIS
1	E	3809	ASN
1	E	3813	GLN
1	E	3837	GLN
1	E	3851	ASN
1	E	3909	ASN
1	E	3970	GLN
1	E	3977	GLN
1	E	3978	GLN
1	E	3994	HIS
1	E	4020	GLN
1	E	4054	ASN
1	E	4153	HIS
1	E	4650	HIS
1	E	4700	GLN
1	E	4947	GLN
1	E	5031	GLN

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Mol	Chain	Res	Type
2	F	25	HIS
2	F	87	HIS
2	F	94	HIS
1	G	57	ASN
1	G	79	GLN
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	278	GLN
1	G	399	GLN
1	G	405	HIS
1	G	465	GLN
1	G	479	GLN
1	G	582	HIS
1	G	593	HIS
1	G	596	ASN
1	G	681	HIS
1	G	991	ASN
1	G	993	HIS
1	G	1127	HIS
1	G	1296	GLN
1	G	1545	ASN
1	G	1558	HIS
1	G	1598	GLN
1	G	1610	ASN
1	G	1631	GLN
1	G	1660	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	2284	ASN
1	G	2773	ASN

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Mol	Chain	Res	Type
1	G	2856	ASN
1	G	3647	HIS
1	G	3667	HIS
1	G	3699	HIS
1	G	3771	HIS
1	G	3809	ASN
1	G	3813	GLN
1	G	3837	GLN
1	G	3889	GLN
1	G	3895	HIS
1	G	3909	ASN
1	G	3970	GLN
1	G	3977	GLN
1	G	3978	GLN
1	G	3994	HIS
1	G	4020	GLN
1	G	4054	ASN
1	G	4153	HIS
1	G	4246	GLN
1	G	4700	GLN
1	G	4987	ASN
1	G	5031	GLN
2	H	25	HIS
2	H	87	HIS
2	H	94	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides 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
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

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
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
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

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
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
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

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
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
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

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
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

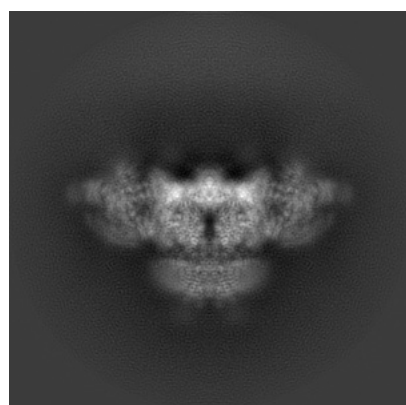
6 Map visualisation [i](#)

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.

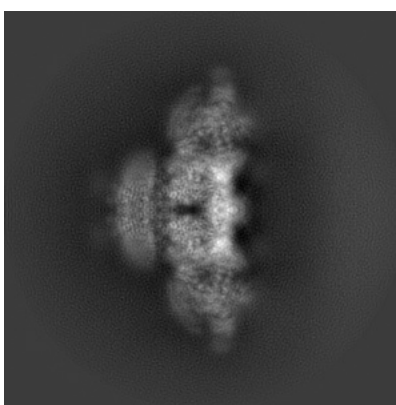
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

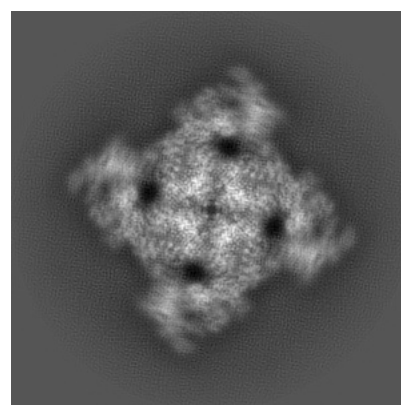
6.1.1 Primary map



X



Y

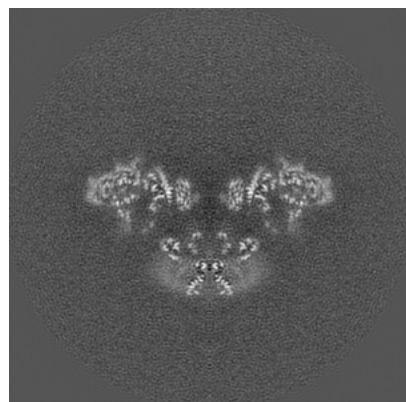


Z

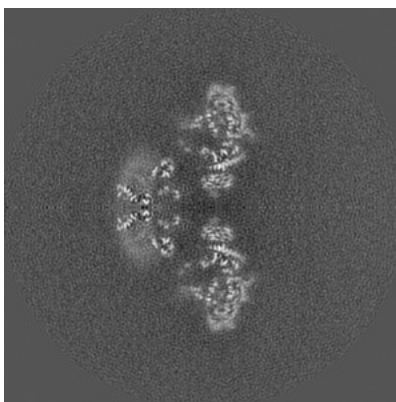
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

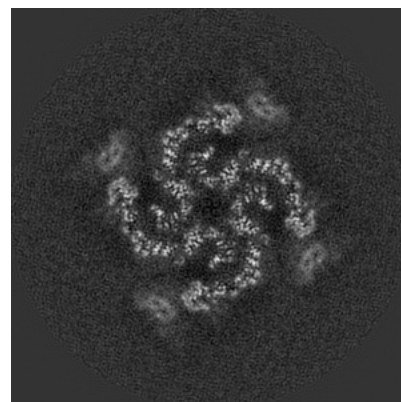
6.2.1 Primary map



X Index: 180



Y Index: 180

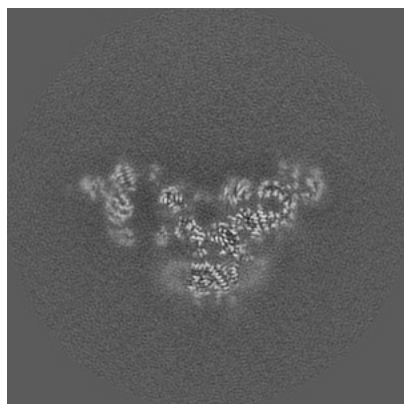


Z Index: 180

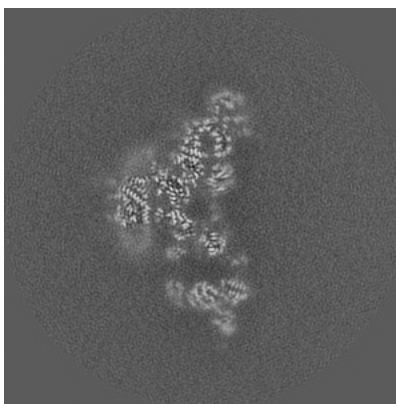
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

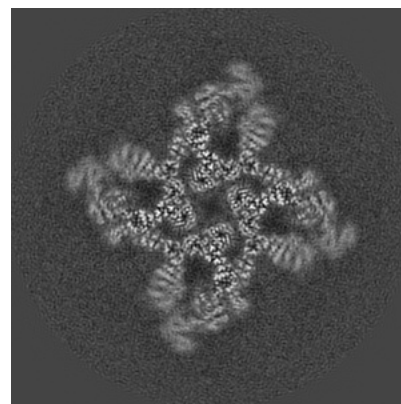
6.3.1 Primary map



X Index: 169



Y Index: 191

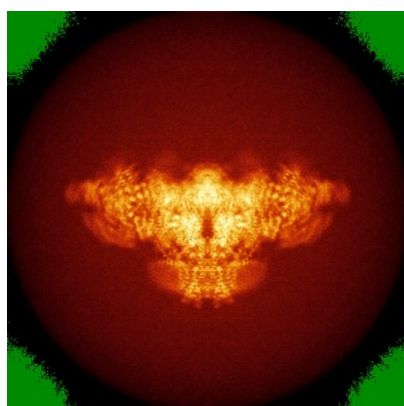


Z Index: 193

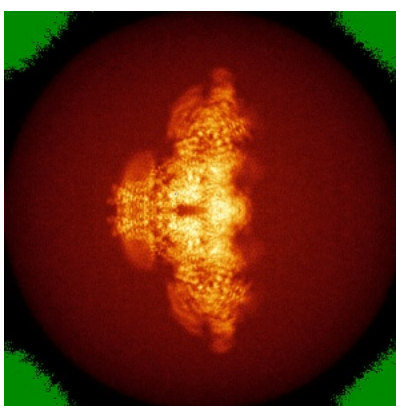
The images above show the largest variance slices of the map in three orthogonal directions.

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

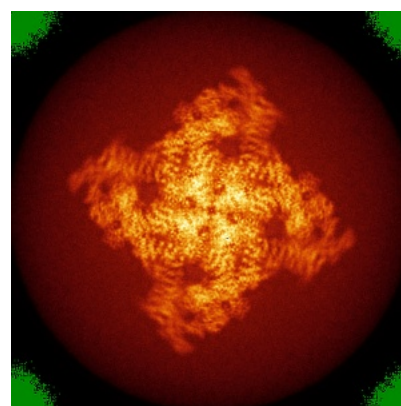
6.4.1 Primary map



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

This section was not generated.

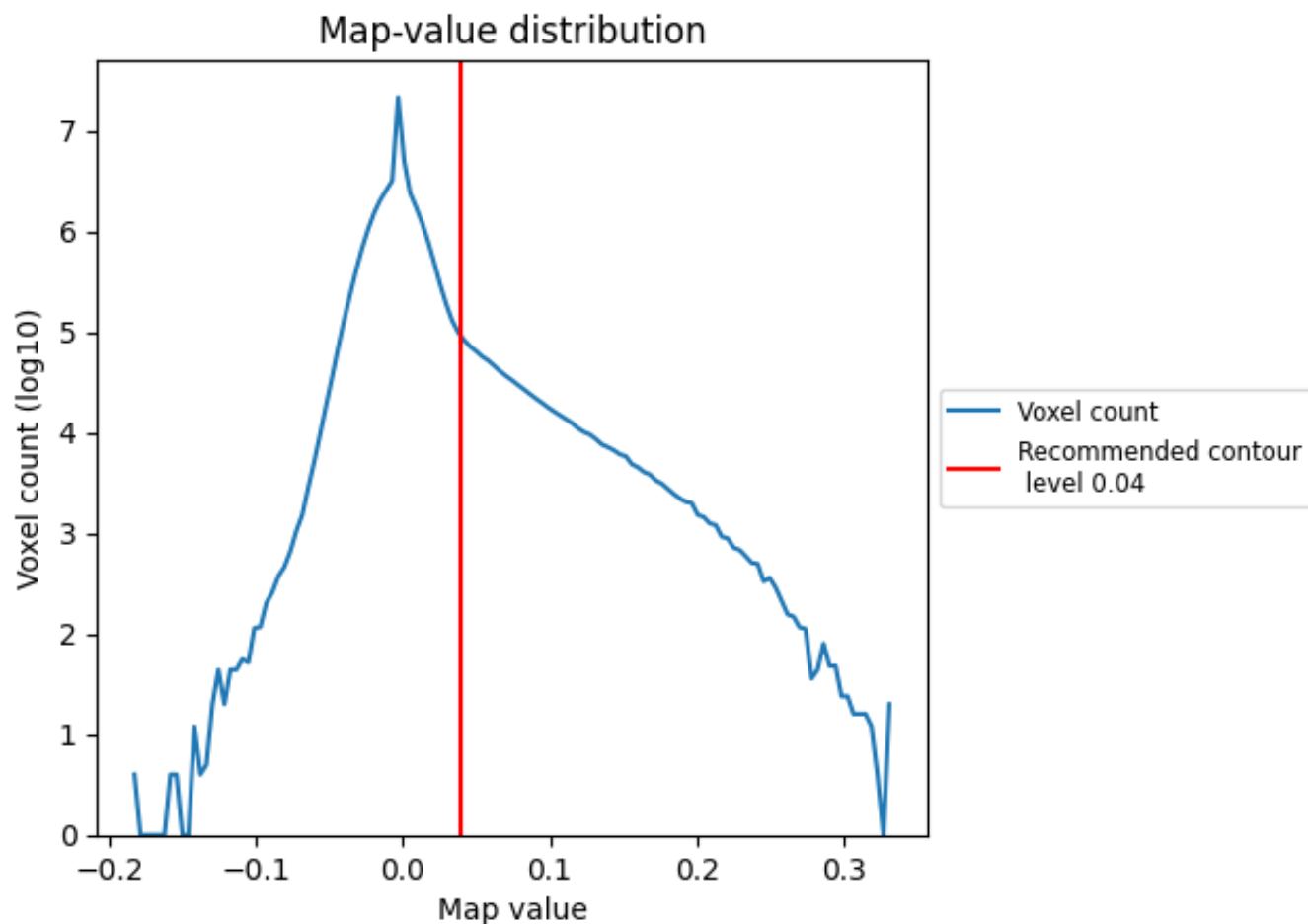
6.6 Mask visualisation

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

7 Map analysis [i](#)

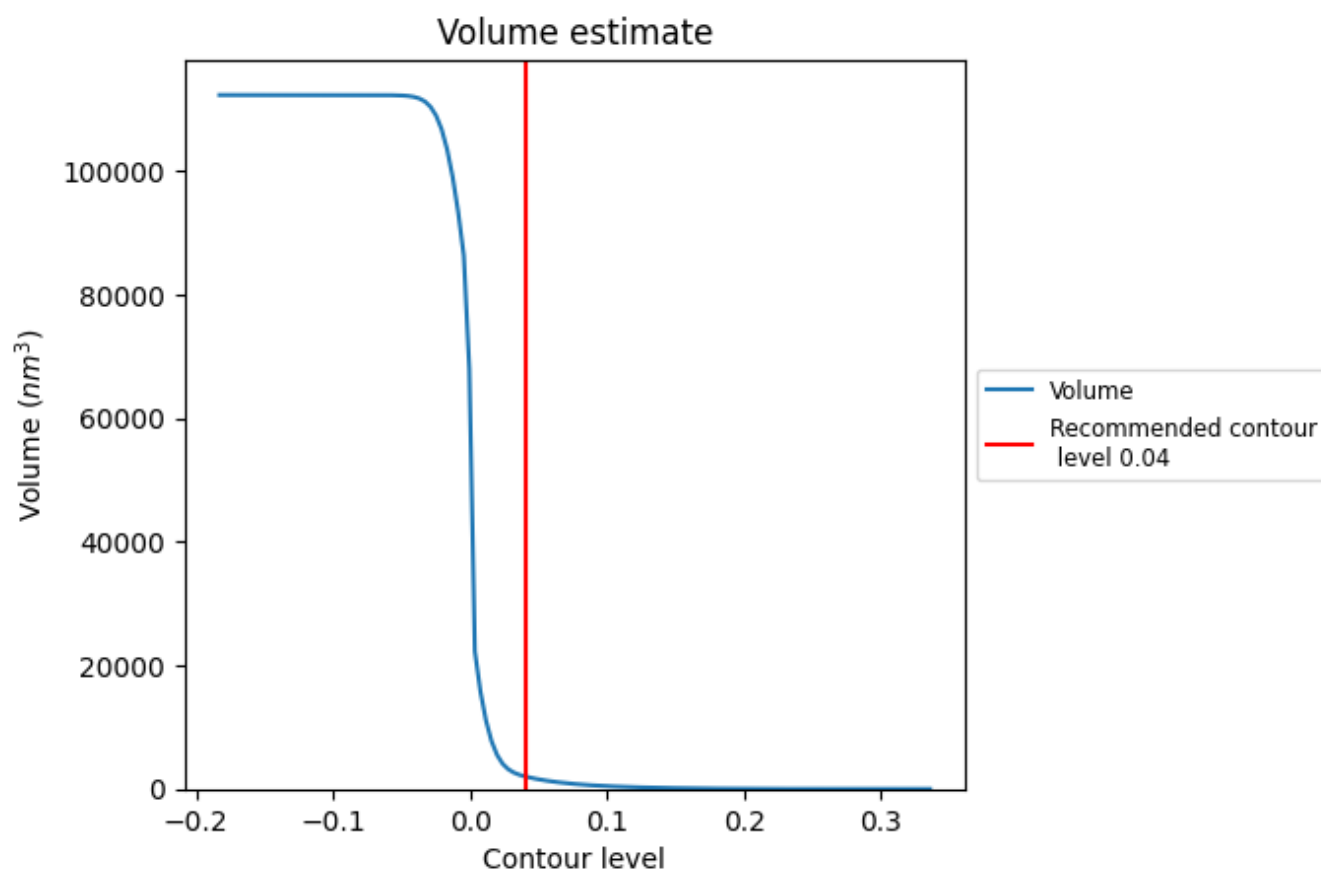
This section contains the results of statistical analysis of the map.

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.

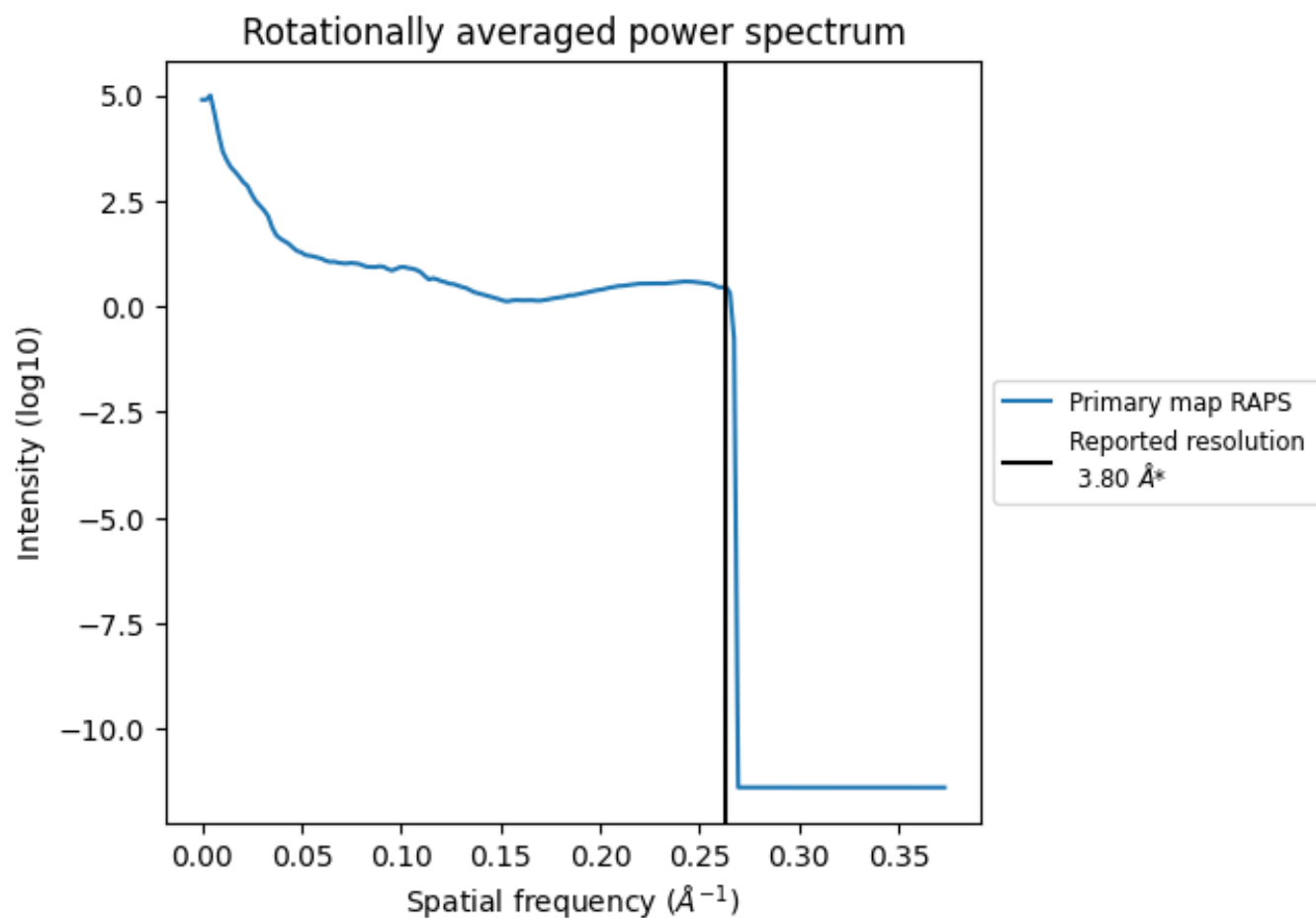
7.2 Volume estimate [i](#)



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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

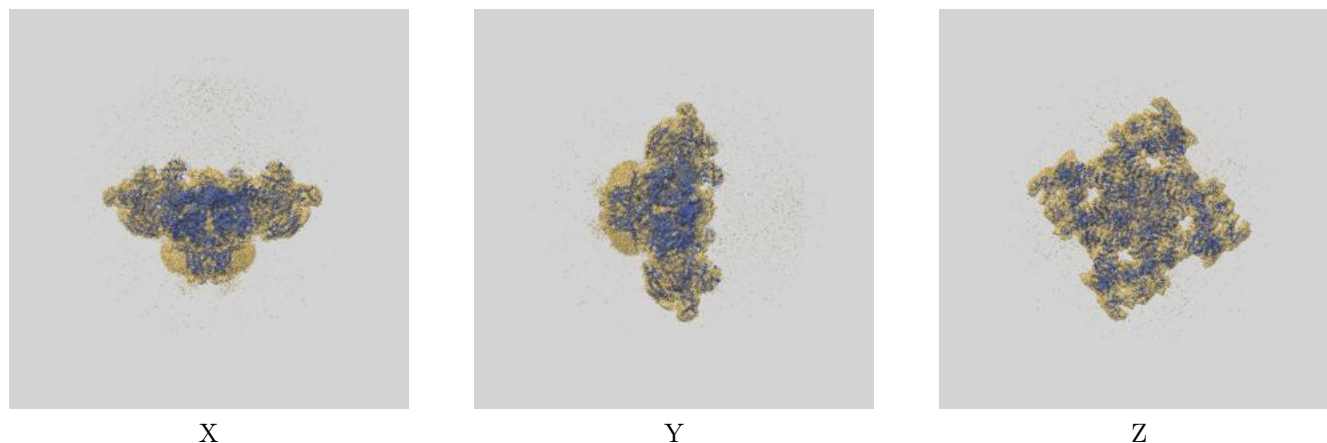
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

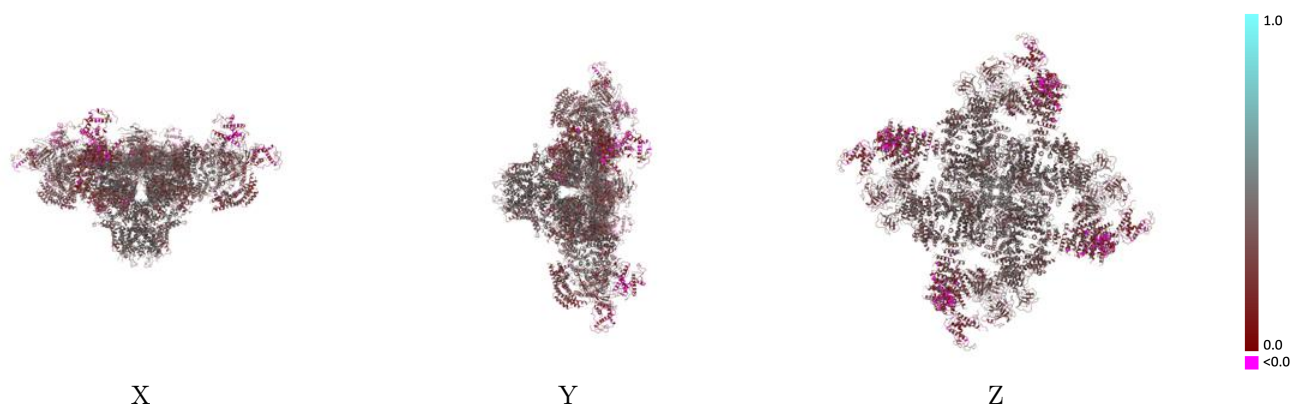
This section contains information regarding the fit between EMDB map EMD-2807 and PDB model 3J8H. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

9.1 Map-model overlay [i](#)



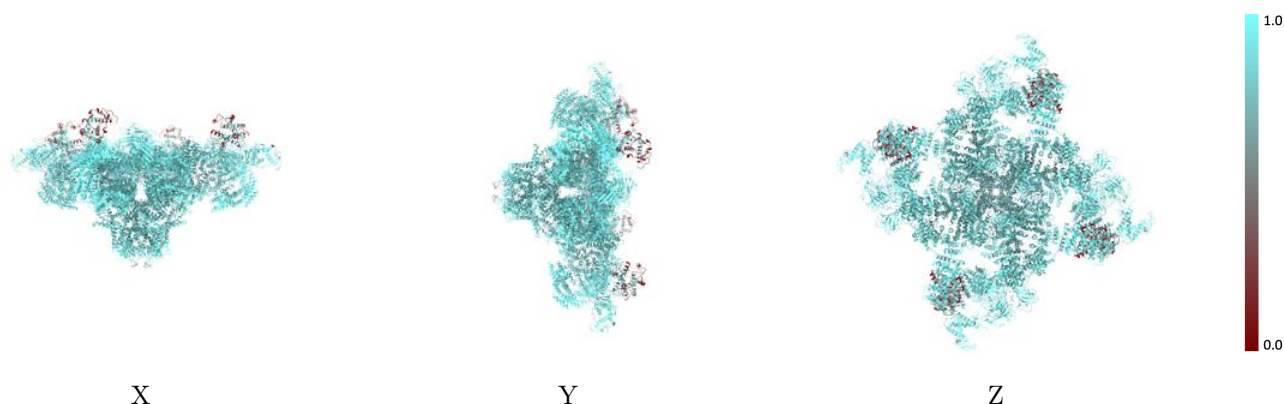
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



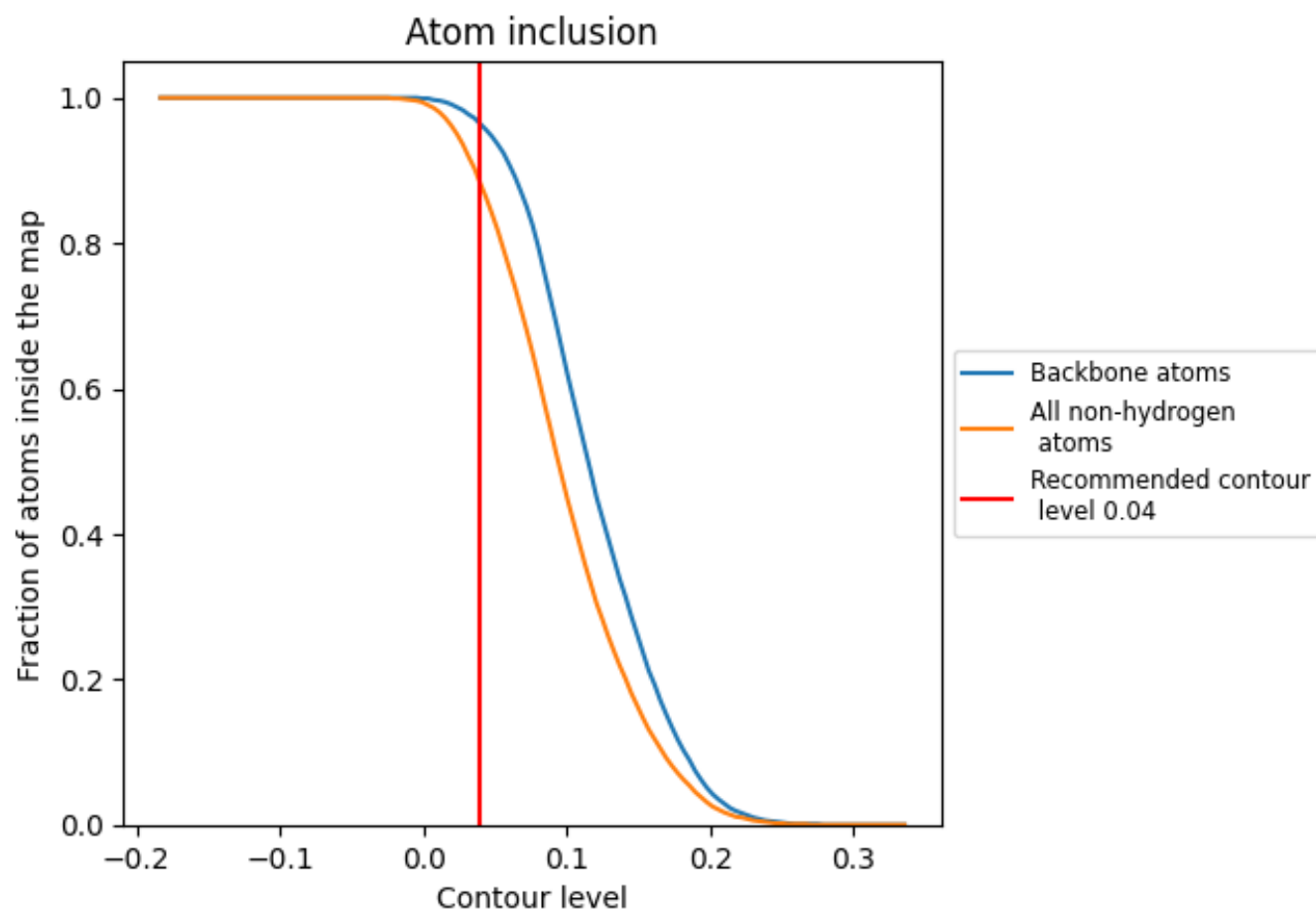
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

1.0

0.0

<0.0