



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 12:35 PM UTC

PDB ID : 5GL0 / pdb_00005gl0
EMDB ID : EMD-9520
Title : Structure of RyR1 in a closed state (C4 conformer)
Authors : Bai, X.C.; Yan, Z.; Wu, J.P.; Yan, N.
Deposited on : 2016-07-07
Resolution : 4.20 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

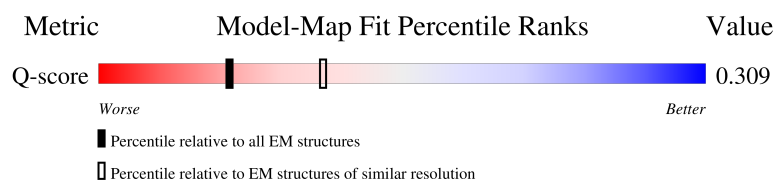
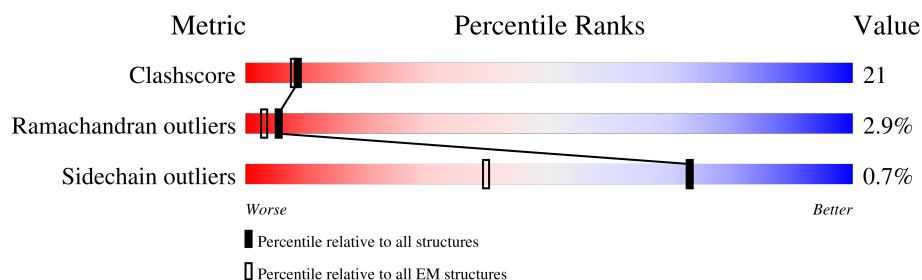
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.20 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	5410 (3.70 - 4.70)

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

Mol	Chain	Length	Quality of chain
1	A	5037	
1	C	5037	
1	E	5037	
1	G	5037	

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Mol	Chain	Length	Quality of chain
2	B	108	36% 56% 42% ..
2	D	108	36% 57% 41% ..
2	F	108	36% 59% 39% ..
2	H	108	31% 59% 39% ..

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 111000 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	0	0
			26917	17107	4682	4971	157		
1	C	3660	Total	C	N	O	S	0	0
			26917	17107	4682	4971	157		
1	E	3660	Total	C	N	O	S	0	0
			26917	17107	4682	4971	157		
1	G	3660	Total	C	N	O	S	0	0
			26917	17107	4682	4971	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		

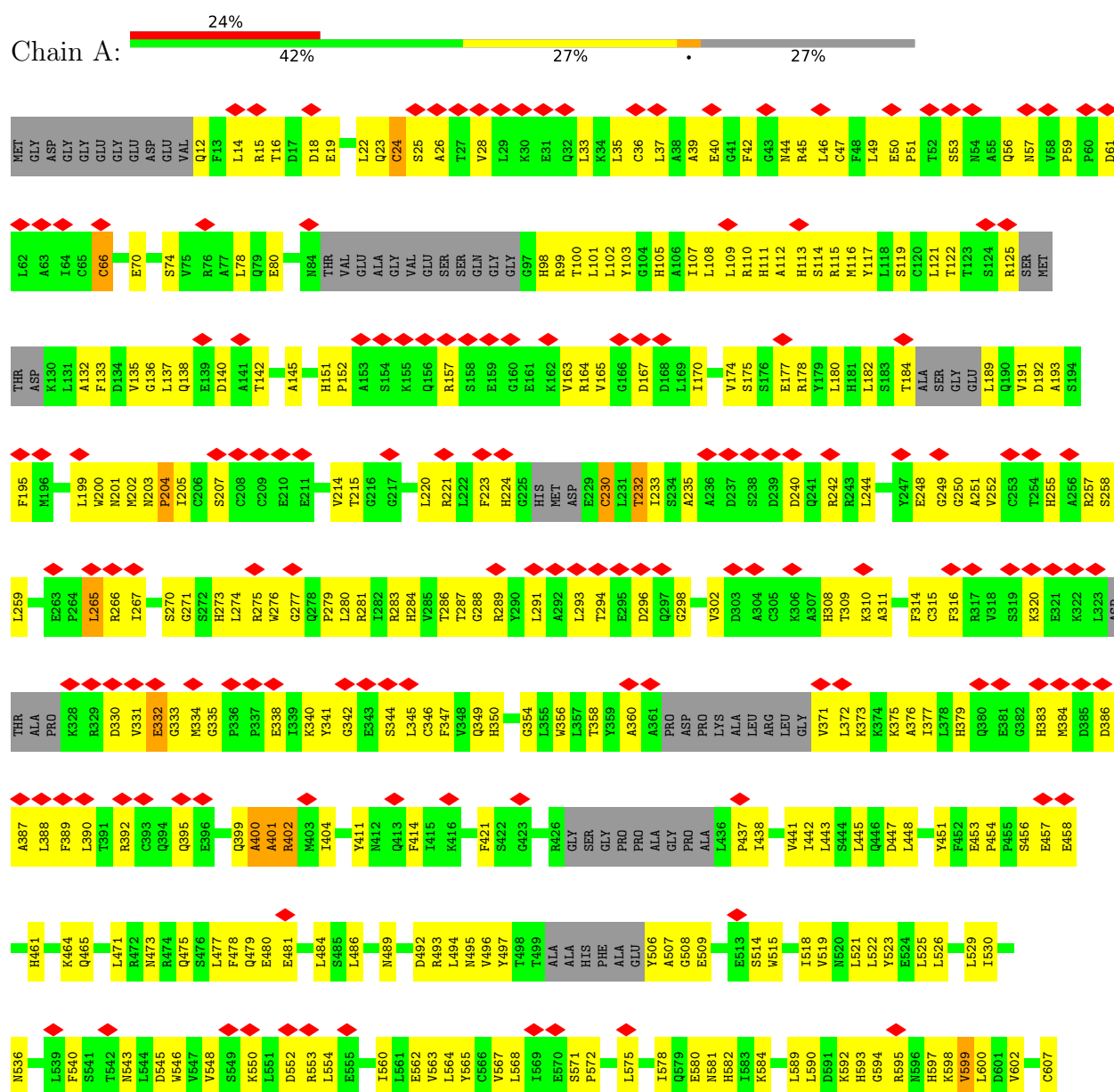
- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

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







F3206	T3142	V3080	PHE	E2830	K2770	L2710	V2627	T2544	L2474	GLY
L3206	L3143	M3081	THR	GLU	I2771	P2711	F2628	E2545	Q2475	GLU
E3207	F3144	K3082	HIS	ARG	Q2772	P2712	D2629	W2546	I2476	PRO
P3208	Q3145	S3083	CYS	THR	N2773	ASP	V2630	A2549	THR	PRO
Q3209	H3146	G3084	PHE	GLU	N2774	VAL	P2631	L2550	TYR	GLU
L3210	I3147	P3085	ALA	L2894	N2775	ASP	M2634	N2551	LEU	GLU
N3211	F3017	E3086	PHE	L2895	S2776	ALA	GLU	R2552	LEU	ASN
E3212	L3018	L2896	GLY	A2896	V2777	THR	PHE	Y2553	ARG	VAL
V3213	V3088	K2897	THR	K2897	E2778	TYR	ALA	L2554	HIS	LEU
V3214	S3019	G2898	GLN	L2898	G2779	SER	K2638	C2555	LEU	LEU
N3214	T3020	G2899	ILE	I2899	E2780	LYS	M2639	L2556	VAL	LEU
A3215	P3021	G2900	SER	E2900	N2780	ALA	P2640	A2557	GLN	LEU
A3216	A3022	L2901	LEU	L2901	V2781	GLU	L2641	V2558	PRO	LEU
C3216	K3023	H2902	ARG	H2902	D2782	LYS	Y2648	L2559	LYS	LEU
S3217	V3024	P2903	THR	THR	E2783	LYS	Y2654	L2561	MET	LEU
VAL	L3025	L2904	GLN	THR	E2784	ALA	Y2655	L2562	ALA	LEU
THR	ASP	L2905	THR	Y2849	K2785	VAL	T2658	THR	SER	LEU
THR	ILE	L2906	ILE	D2850	K2786	ASP	T2659	LYS	ALA	LEU
THR	SER	V2906	SER	P2851	T2787	ALA	Q2660	CYS	ALA	LEU
LYS	GLN	P2907	GLN	N2855	H2788	GLY	T2667	ALA	ALA	LEU
PRO	H3032	Y2908	PHE	R2852	P2789	GLY	Q2668	THR	ALA	LEU
ARG	H3033	D2909	ILE	E2853	K2790	ASP	T2669	LYS	ALA	LEU
GLU	K3036	T2910	ALA	G2854	N2790	THR	Q2679	ALA	ALA	LEU
ARG	E3037	L2911	HIS	N2856	K2791	VAL	THR	LYS	ALA	LEU
ALA	E3038	T2912	LEU	P2857	R2792	ASP	ALA	CYS	ALA	LEU
ALA	I3039	A2913	ALA	Q2858	P2793	GLY	PHE	ALA	ALA	LEU
THR	THR	K2914	VAL	P2859	K2794	GLY	GLY	THR	ALA	LEU
SER	SER	E2915	VAL	R2860	T2795	VAL	VAL	LYS	ALA	LEU
PRO	LEU	K2916	SER	L2862	F2797	THR	T2667	ARG	ALA	LEU
ASN	F3043	A2917	GLY	S2863	S2798	L2742	S2668	LEU	ALA	LEU
SER	C3044	R2918	ARG	L2864	E2799	L2743	E2669	GLU	ALA	LEU
VAL	L3046	D2919	GLU	Y2865	K2800	N2745	THR	SER	ALA	LEU
GLU	V3050	R2920	LYS	T2866	D2801	L2746	THR	GLY	ALA	LEU
PRO	R3051	E2921	PRO	L2867	K2802	I2747	F2682	ILE	ALA	LEU
ILE	H3052	K2922	HIS	S2868	E2803	P2748	F2683	GLY	ALA	LEU
GLN	S3055	Q2924	GLN	R2869	L2804	E2749	S2685	ARG	ALA	LEU
ALA	GLU	E2925	ILE	E2870	L2805	K2750	L2686	CYS	ALA	LEU
ARG	GLU	L2926	LYS	L2871	R2806	L2751	ALA	TYR	ALA	LEU
THR	A3061	L2927	PHE	Q2872	W2807	D2752	HIS	ILE	ALA	LEU
GLN	P3062	K2928	PHE	A2873	F2808	S2753	LYS	ARG	ALA	LEU
VAL	ALA	F2929	ALA	M2874	L2809	F2754	D2692	TYR	ALA	LEU
VAL	VAL	L2930	VAL	A2875	K2810	I2755	Q2693	ILE	ALA	LEU
ASN	ASN	Q2931	ASN	E2876	S2812	N2756	R2615	ASP	ALA	LEU
GLN	CYS	M2932	PRO	E2877	L2813	K2757	P2616	ASP	ALA	LEU
LEU	L3068	N2933	LEU	Q2878	K2814	F2758	S2617	ASP	ALA	LEU
LEU	H3069	G2934	ILE	L2878	A2815	A2759	M2618	THR	ALA	LEU
THR	I3070	V2935	GLN	A2879	M2816	E2760	L2619	THR	ALA	LEU
TYR	L3071	A2936	THR	E2880	L2817	Y2761	Q2624	ALA	ALA	LEU
T3132	A3072	L3072	ASP	Y2882	A2818	T2762	L2623	THR	ALA	LEU
T3133	R3073	T2938	GLU	H2883	N2819	H2763	R2625	THR	ALA	LEU
V3134	S3074	R2939	LEU	N2884	E2820	E2764	L2626	THR	ALA	LEU
A3135	L3075	G2940	LEU	T2885	W2821	G2765	R2626	THR	ALA	LEU
P3138	D3076	LEU	ASP	W2886	L2822	G2766	R2626	THR	ALA	LEU
V3139	A3077	PRO	NET	G2887	T2823	F2767	R2626	THR	ALA	LEU
L3140	R3078	GLU	GLU	R2888	E2824	D2768	R2626	THR	ALA	LEU
T3141	T3079	THR	ASP	K2889	K2825	D2769	R2626	THR	ALA	LEU
			SER		A2826		R2626	THR	ALA	LEU
					R2827		R2626	THR	ALA	LEU
					E2828		R2626	THR	ALA	LEU
					G2829		R2626	THR	ALA	LEU





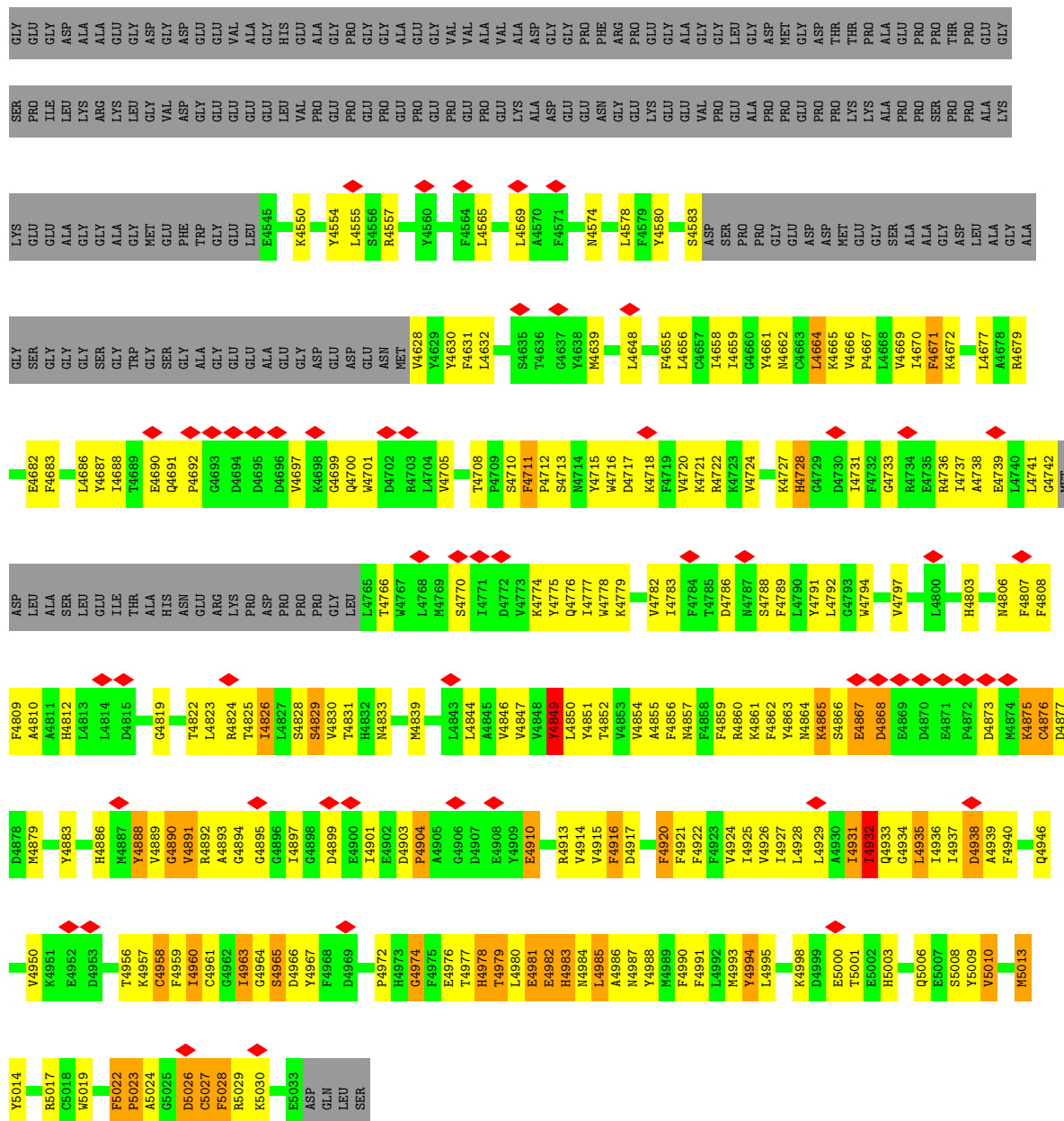






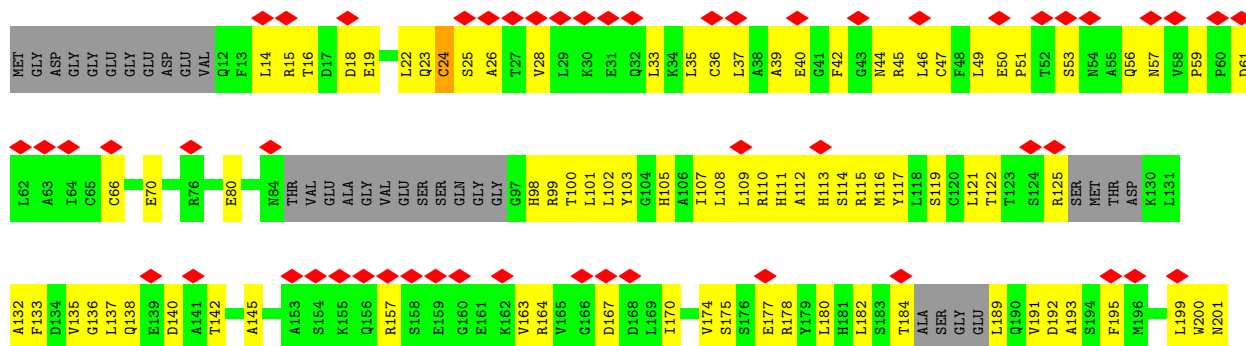


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ALA	ALA	S4150	A4075		D3921	GLY	A3785	D3719	GLY	ASP	N3523	V3460
LEU	ALA	E4152	F4077	K4002	Y3922	GLY	C3786	Y3720	ASP	ASP	M3524	Q3461
LEU	ALA	H4153		L4003	L3923	MET	E3789	L3721	ASP	ASP	R3648	R3462
LEU	ALA	V4154			L3924	VAL	T3790	M3722	PRO	PRO	C3525	E3463
ALA	ALA	A4228		S4007	Q3927	ASN	G3791	A3724	GLY	LYS	A3526	I3464
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ALA	ALA	D4156		L4012	Q3927	ASP	A3792		VAL	THR	ASP	R3466
ALA	ALA	P4158		L4013	S3929	GLY	V3794		ARG	GLN	ASP	R3467
ALA	ALA	R4085		L4017	F3933	THR	S3795		ARG	VAL	ASP	S3468
ALA	ALA	E4086		L4031	Y3934	ILE	S3796		VAL	VAL	LEU	F3469
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ALA	ALA			L4031	L3903	GLY	K3823		VAL	VAL	ALA	ASP
ALA	ALA			L4031	F3904	GLY	K3824		VAL	VAL	ALA	ASP
ALA	ALA			L4031	T3905	GLY	E3825		VAL	VAL	ALA	ASP
ALA	ALA			L4031	Q3906	GLY	V3826		VAL	VAL	ALA	ASP
ALA	ALA			L4031	G3907	GLY	G3827		VAL	VAL	ALA	ASP
ALA	ALA			L4031	C3973	GLY	F3828		VAL	VAL	ALA	ASP
ALA	ALA			L4031	N3977	GLY	L3885		VAL	VAL	ALA	ASP
ALA	ALA			L4031	D3988	GLY	T3888		VAL	VAL	ALA	ASP
ALA	ALA			L4031	F3989	GLY	C3889		VAL	VAL	ALA	ASP
ALA	ALA			L4031	N3901	GLY	K3821		VAL	VAL	ALA	ASP
ALA	ALA			L4031	Y3902	GLY	D3822		VAL	VAL	ALA	ASP
ALA	ALA			L4031	L3903	GLY	K3823		VAL	VAL	ALA	ASP
ALA	ALA			L4031	F3904	GLY	K3824		VAL	VAL	ALA	ASP
ALA	ALA			L4031	T3905	GLY	E3825		VAL	VAL	ALA	ASP
ALA	ALA			L4031	Q3906	GLY	V3826		VAL	VAL	ALA	ASP
ALA	ALA			L4031	G3907	GLY	G3827		VAL	VAL	ALA	ASP
ALA	ALA			L4031	C3973	GLY	F3828		VAL	VAL	ALA	ASP
ALA	ALA			L4031	N3977	GLY	L3885		VAL	VAL	ALA	ASP
ALA	ALA			L4031	D3988	GLY	T3888		VAL	VAL	ALA	ASP
ALA	ALA			L4031	F3989	GLY	C3889		VAL	VAL	ALA	ASP
ALA	ALA			L4031	N3901	GLY	K3821		VAL	VAL	ALA	ASP
ALA	ALA			L4031	Y3902	GLY	D3822		VAL	VAL	ALA	ASP
ALA	ALA			L4031	L3903	GLY	K3823		VAL	VAL	ALA	ASP
ALA	ALA			L4031	F3904	GLY	K3824		VAL	VAL	ALA	ASP
ALA	ALA			L4031	T3905	GLY	E3825		VAL	VAL	ALA	ASP
ALA	ALA			L4031	Q3906	GLY	V3826		VAL	VAL	ALA	ASP
ALA	ALA			L4031	G3907	GLY	G3827		VAL	VAL	ALA	ASP
ALA	ALA			L4031	C3973	GLY	F3828		VAL	VAL	ALA	ASP
ALA												



• Molecule 1: Ryanodine receptor 1

Chain E:



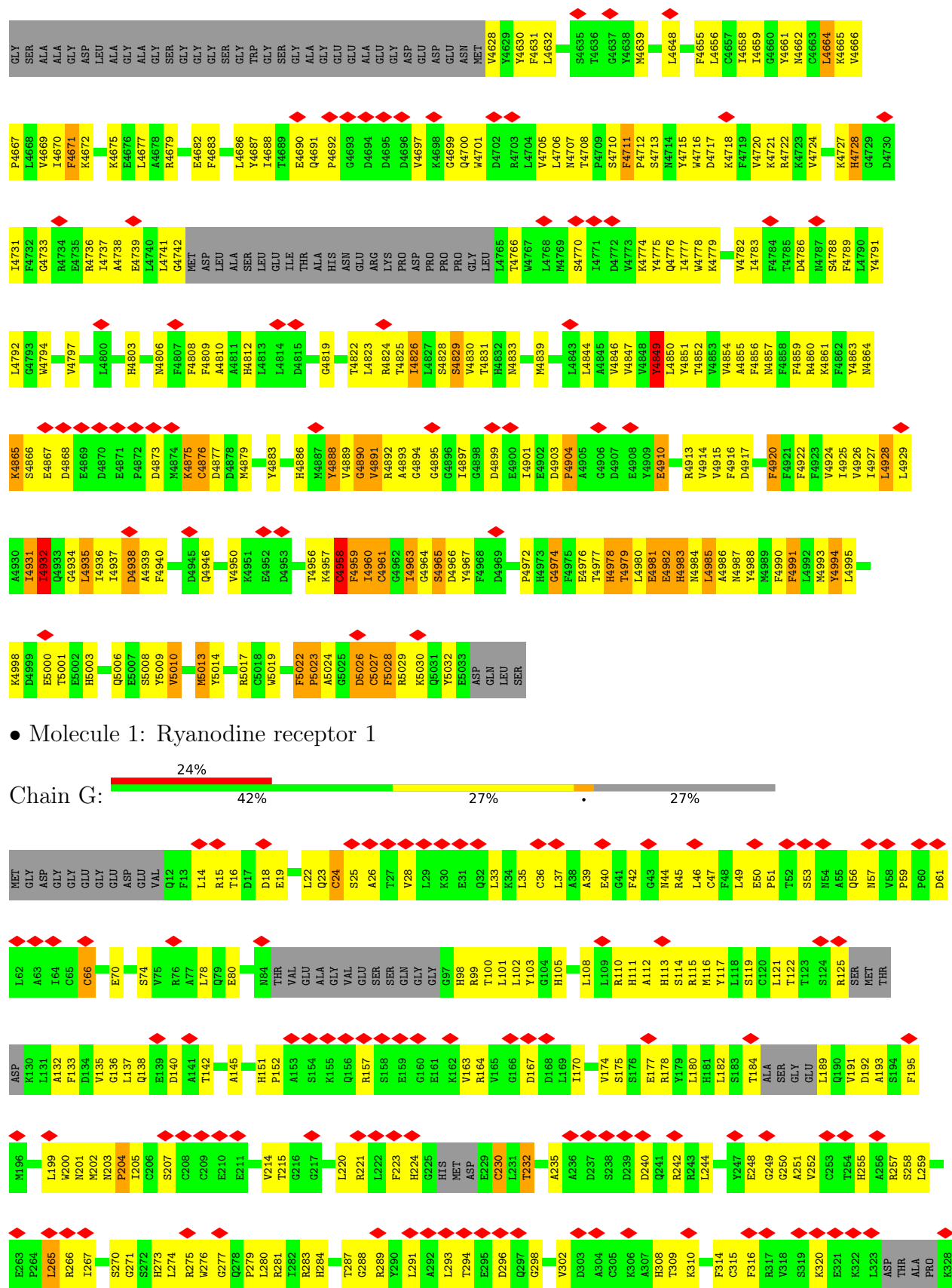












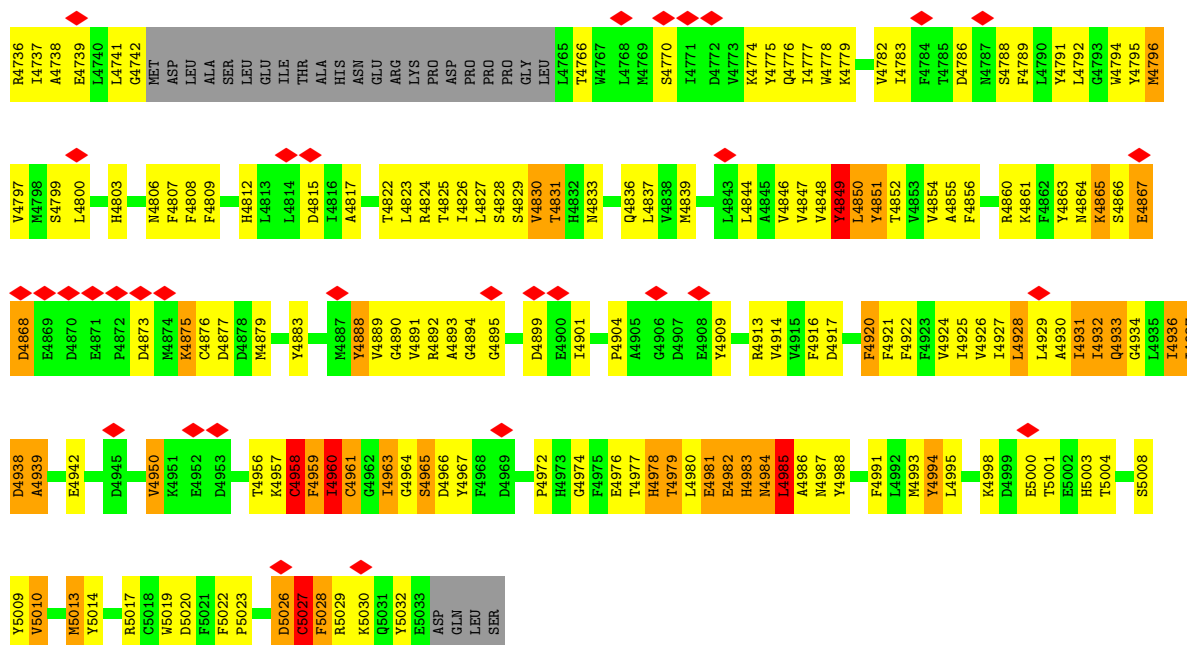
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PRO	ASP	GLN	GLU	PRO	GLN	VAL	GLU	ASN	GLN	SER	ARG	TRP	ASP	R1071	V1072	R1073	R1076	A1077	E1078	K1079	S1085	G1086	I1087	W1088	Y1089	F1090	E1091	F1092	L1027	D1028	E1029	R1030	T1031	K1032	R1033	S1034	N1035	R1036	D1037	S1038	R1110	P1111	D1112	V1113	E1114	L1115	D1118	E1119	L1120	N1125	G1126	H1127	R1128								
E927	T928	L929	K930	T931	L932	L933	L934	A935	G936	C937	H938	H939	ALA	VAL	GLN	ASP	ILE	PRO	ALA	R1016	R1017	N1018	L1021	V1022	P1023	Y1024	R1025	L1026	L1027	D1028	E1029	R897	L839	Y840	G841	P842	S843	R844	LEU	SER	THR	ASP	F851	V852	P853	C854	P855	V856	D857	T858	V859	Q860	L861	V862	L863	P864	P865				
H866	L867	E868	R869	L870	R871	L874	A875	E876	R877	L878	H879	E880	L881	W882	A883	L884	T885	R886	L887	E888	Q889	Y829	R830	R831	T892	Y893	G894	P895	V896	R897	D898	D899	N900	K901	R902	L903	H904	P905	C906	H907	V908	N909	F910	H911	S912	L913	P914	E915	P916	E917	R918	N919	Y920	N921	Q923	N924	S925	G926			
A989	E990	N991	N994	A997	Q1003	GLY	TRP	SER	SER	TRP	SER	ALA	VAL	GLN	ASP	PRO	PRO	ALA	R1016	R1017	N1018	L1021	V1022	P1023	Y1024	R1025	L1026	L1027	D1028	E1029	R897	L839	Y840	G841	P842	S843	R844	LEU	SER	HIS	THR	ASP	F851	V852	P853	C854	P855	V856	D857	T858	V859	Q860	L861	V862	L863	P864	P865				
PRO	ASP	GLN	GLU	PRO	GLN	VAL	GLU	ASN	GLN	SER	ARG	TRP	ASP	R1071	V1072	R1073	R1076	A1077	E1078	K1079	S1085	G1086	I1087	W1088	Y1089	F1090	E1091	F1092	L1027	D1028	E1029	R1030	T1031	K1032	R1033	S1034	N1035	R1036	D1037	S1038	R1110	P1111	D1112	V1113	E1114	L1115	D1118	E1119	L1120	N1125	G1126	H1127	R1128								
G1129	Q1130	R1131	W1132	H1133	L1134	G1135	S1136	E1137	P1138	F1139	G1140	B1141	F1142	W1143	Q1144	D1147	V1148	M1152	I1153	D1154	L1155	T1156	I1160	I1161	F1162	E1167	W1168	L1169	MET	SER	ASP	GLY	SER	GLU	THR	A1178	F1179	I1182	E1183	I1184	G1185	D1186	G1187	F1188	L1189	P1190	V1191	C1192	S1193	L1194	G1195	P1196	G1197								
R329	D330	V331	E332	G333	M334	G335	P336	P337	E338	I339	K340	Y341	G342	G343	S344	L345	C346	F347	V348	Q349	H350	V351	A352	S353	G354	L355	W356	L357	T358	Y359	A360	A361	PRO	ASP	PRO	PRO	LYS	ALA	LEU	ARG	LEU	LEU	GLY	V371	L372	K373	K374	K375	A376	I377	L378	H379	Q380	E381	G382	H383	M384	D385	D386	A387	L388
F389	L390	T391	R392	C393	Q394	Q395	E396	Q399	A400	A401	A402	M403	I404	Y411	M412	Q413	S414	F415	I416	M417	D421	S422	G423	R426	GLY	SER	GLY	PRO	PRO	ALA	ALA	GLY	PRO	ALA	PRO	ASP	GLU	Y506	A507	G508	E509	E513	S514	W515	I518	V519	N520	L521	L522	Y523	E524	L525	L526	L529	I530						
K464	Q465	S466	R469	S470	L471	R472	M473	R474	Q475	S476	L477	F478	Q479	E480	E481	L484	S485	L486	M489	D492	R493	L494	M495	V496	I497	T498	L499	ALA	HIS	PHE	ALA	ALA	GLU	Y506	A507	G508	E509	E513	S514	W515	I518	V519	N520	L521	L522	Y523	E524	L525	L526	L529	I530										
N536	L539	F540	T542	N543	L544	D545	W546	V547	V548	S549	K550	L551	D552	R553	L554	E555	I560	L561	E562	V563	L564	Y565	C566	V567	L568	I569	E570	S571	P572	L575	I578	Q579	E580	N581	H582	I583	K584	L589	L590	D591	K592	G594	R595	N596	L597	K598	L600	V601	V602												
C607	V608	C609	R610	G611	A612	A613	N617	Q618	D619	L620	I621	T622	L625	L626	P627	G628	R629	E630	Q634	T635	N636	L637	T638	N639	Y640	V641	T642	S643	I644	R645	P646	N647	I648	F649	V650	G651	ARG	ALA	GLU	GLY	SER	THR	GLN	TYR	G660	V661	W662	Y663	F664	E665	V666	P667	V668	D669	E670	V671					
V672	P673	F674	L675	T676	A677	Q678	A679	L682	R683	V684	G685	W686	T689	E690	G691	Y692	S693	P694	V695	P696	G697	G698	N699	Y700	G701	T702	G703	G704	W705	G706	V707	G708	D709	D710	L711	Y712	S713	F716	D717	G718	L719	H720	L721	W722	T723	G724	W725	V726	A727	R728	P729	V730	T731	P733	G734						
Q735	H736	L737	L738	A739	P740	E741	D742	V743	W744	S745	C746	C747	L748	D749	L750	S751	V752	P753	S756	F757	R758	I759	W760	G761	C762	P763	V764	G765	G766	V767	F768	F771	N772	L773	D774	F777	F778	P779	V780	W781	S782	F783	S784	A785	G786	K788	W789	R790	F791	L792	L793	G794	GLY	ARG	HIS						
GLY	E799	F802	R803	P804	P805	P806	G807	Y808	L816	P817	R818	E819	R820	L821	R822	L823	E824	P825	I826	K827	E828	Y829	R830	R831	E832	G833	P834	R835	H838	L839	Y840	G841	P842	S843	R844	LEU	SER	HIS	THR	ASP	F851	V852	P853	C854	P855	V856	D857	T858	V859	Q860	L861	V862	L863	P864	P865						
H866	L867	E868	R869	L870	R871	L874	A875	E876	R877	L878	H879	E880	L881	W882	A883	L884	T885	R886	L887	E888	Q889	Y829	R830	R831	T892	Y893	G894	P895	V896	R897	D898	D899	N900	K901	R902	L903	H904	P905	C906	H907	V908	N909	F910	H911	S912	L913	P914	E915	P916	E917	R918	N919	Y920	N921	Q923	N924	S925	G926			
E927	T928	L929	K930	T931	L932	L933	L934	A935	G936	C937	H938	H939	ALA	VAL	GLN	ASP	PRO	PRO	ALA	R1016	R1017	N1018	L1021	V1022	P1023	Y1024	R1025	L1026	L1027	D1028	E1029	R897	L839	Y840	G841	P842	S843	R844	LEU	SER	HIS	THR	ASP	F851	V852	P853	C854	P855	V856	D857	T858	V859	Q860	L861	V862	L863	P864	P865			
A989	E990	N991	N994	A997	Q1003	GLY	TRP	SER	SER	TRP	SER	ALA	VAL	GLN	ASP	PRO	PRO	ALA	R1016	R1017	N1018	L1021	V1022	P1023	Y1024	R1025	L1026	L1027	D1028	E1029	R897	L839	Y840	G841	P842	S843	R844	LEU	SER	HIS	THR	ASP	F851	V852	P853	C854	P855	V856	D857	T858	V859	Q860	L861	V862	L863	P864	P865				
PRO	ASP	GLN	GLU	PRO	GLN	VAL	GLU	ASN	GLN	SER	ARG	TRP	ASP	R1071	V1072	R1073	R1076	A1077	E1078	K1079	S1085	G1086	I1087	W1088	Y1089	F1090	E1091	F1092	L1027	D1028	E1029	R1030	T1031	K1032	R1033	S1034	N1035	R1036	D1037	S1038	R1110	P1111	D1112	V1113	E1114	L1115	D1118	E1119	L1120	N1125	G1126	H1127	R1128								
G1129	Q1130	R1131	W1132	H1133	L1134	G1135	S1136	E1137	P1138	F1139	G1140	B1141	F1142	W1143	Q1144	D1147	V1148	M1152	I1153	D1154	L1155	T1156	I1160	I1161	F1162	E1167	W1168	L1169	MET	SER	ASP	GLY	SER	GLU	THR	A1178	F1179	I1182	E1183	I1184	G1185	D1186	G1187	F1188	L1189	P1190	V1191	C1192	S1193	L1194	G1195	P1196	G1197								



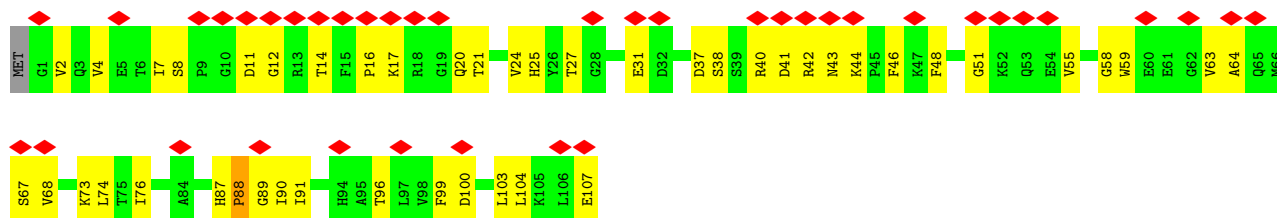




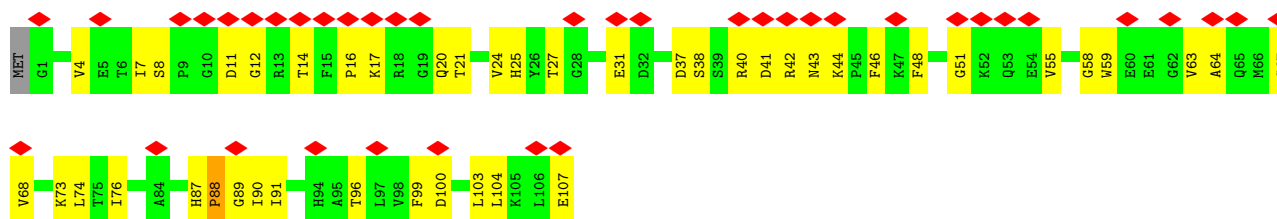




• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

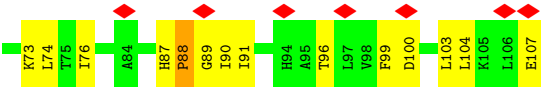


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

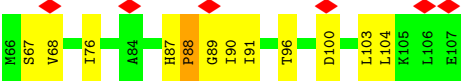


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A





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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	47000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.324	Depositor
Minimum map value	-0.144	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.09	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	1.20	141/27385 (0.5%)	1.11	132/37104 (0.4%)
1	C	1.20	149/27385 (0.5%)	1.11	135/37104 (0.4%)
1	E	1.20	146/27385 (0.5%)	1.11	133/37104 (0.4%)
1	G	1.19	149/27385 (0.5%)	1.10	120/37104 (0.3%)
2	B	0.74	0/851	0.97	1/1146 (0.1%)
2	D	0.74	0/851	0.97	1/1146 (0.1%)
2	F	0.74	0/851	0.97	1/1146 (0.1%)
2	H	0.76	0/851	0.96	1/1146 (0.1%)
All	All	1.19	585/112944 (0.5%)	1.10	524/153000 (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	19
1	C	0	19
1	E	0	19
1	G	0	19
All	All	0	76

All (585) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	4987	ASN	N-CA	-12.74	1.30	1.46
1	A	4987	ASN	N-CA	-12.65	1.31	1.46
1	E	4987	ASN	N-CA	-12.58	1.31	1.46
1	G	4181	ILE	CA-CB	-10.95	1.39	1.54
1	E	4181	ILE	CA-CB	-10.68	1.40	1.54
1	A	4181	ILE	CA-CB	-10.63	1.40	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	4181	ILE	CA-CB	-10.61	1.40	1.54
1	G	4987	ASN	N-CA	-10.53	1.33	1.46
1	C	5022	PHE	CA-C	-9.11	1.43	1.53
1	A	4180	ARG	C-O	-8.94	1.12	1.23
1	E	4180	ARG	C-O	-8.94	1.12	1.23
1	A	5022	PHE	CA-C	-8.92	1.43	1.53
1	E	5022	PHE	CA-C	-8.91	1.43	1.53
1	C	4180	ARG	C-O	-8.86	1.12	1.23
1	C	2926	LEU	CA-C	8.80	1.64	1.52
1	E	1453	VAL	C-O	-8.48	1.15	1.24
1	G	1453	VAL	C-O	-8.44	1.15	1.24
1	C	1453	VAL	C-O	-8.44	1.15	1.24
1	A	4178	LEU	C-O	-8.39	1.13	1.23
1	A	1453	VAL	C-O	-8.38	1.15	1.24
1	G	4183	ILE	CA-C	-8.35	1.42	1.52
1	C	4178	LEU	C-O	-8.32	1.13	1.23
1	E	4183	ILE	CA-C	-8.28	1.42	1.52
1	A	4183	ILE	CA-C	-8.25	1.42	1.52
1	C	4183	ILE	CA-C	-8.22	1.42	1.52
1	E	4178	LEU	C-O	-8.17	1.13	1.23
1	G	3779	VAL	CA-C	-8.16	1.42	1.52
1	G	4180	ARG	C-O	-8.13	1.13	1.23
1	C	4192	ARG	CA-C	-8.12	1.43	1.52
1	G	4178	LEU	C-O	-8.12	1.13	1.23
1	E	3779	VAL	CA-C	-7.91	1.43	1.52
1	G	4192	ARG	CA-C	-7.90	1.43	1.52
1	C	3779	VAL	CA-C	-7.90	1.43	1.52
1	A	3964	SER	CA-C	-7.86	1.42	1.52
1	A	3779	VAL	CA-C	-7.85	1.43	1.52
1	E	3964	SER	CA-C	-7.82	1.42	1.52
1	E	4192	ARG	CA-C	-7.74	1.43	1.52
1	G	4180	ARG	CA-C	-7.74	1.42	1.52
1	C	3964	SER	CA-C	-7.68	1.42	1.52
1	A	4192	ARG	CA-C	-7.65	1.43	1.52
1	A	4180	ARG	CA-C	-7.64	1.42	1.52
1	C	4927	ILE	CA-C	-7.63	1.43	1.52
1	G	4982	GLU	C-O	-7.62	1.14	1.24
1	A	4985	LEU	CA-C	-7.62	1.42	1.52
1	E	4180	ARG	CA-C	-7.62	1.42	1.52
1	G	4988	TYR	CG-CD2	-7.60	1.23	1.39
1	C	4180	ARG	CA-C	-7.60	1.42	1.52
1	E	4960	ILE	N-CA	-7.58	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	4985	LEU	CA-C	-7.57	1.42	1.52
1	C	4960	ILE	N-CA	-7.56	1.37	1.46
1	A	4192	ARG	C-O	-7.50	1.14	1.23
1	E	4985	LEU	CA-C	-7.48	1.42	1.52
1	C	4192	ARG	C-O	-7.48	1.14	1.23
1	E	4927	ILE	CA-C	-7.48	1.43	1.52
1	G	4671	PHE	CA-C	-7.48	1.43	1.52
1	A	4960	ILE	N-CA	-7.47	1.37	1.46
1	G	5022	PHE	CA-C	-7.46	1.45	1.53
1	G	4847	VAL	CA-C	-7.44	1.42	1.52
1	E	4850	LEU	N-CA	-7.44	1.37	1.46
1	G	3724	ALA	CA-C	-7.41	1.43	1.52
1	C	4850	LEU	N-CA	-7.36	1.37	1.46
1	E	4192	ARG	C-O	-7.36	1.14	1.23
1	A	4850	LEU	N-CA	-7.33	1.37	1.46
1	A	4927	ILE	CA-C	-7.30	1.43	1.52
1	C	4958	CYS	CA-C	-7.28	1.43	1.52
1	C	3966	THR	N-CA	-7.27	1.37	1.46
1	E	1641	ILE	N-CA	-7.26	1.41	1.46
1	G	4994	TYR	CA-C	-7.25	1.42	1.52
1	G	1448	VAL	C-O	7.25	1.32	1.23
1	A	5014	TYR	CG-CD1	-7.25	1.24	1.39
1	A	3966	THR	N-CA	-7.23	1.37	1.46
1	E	3966	THR	N-CA	-7.23	1.37	1.46
1	A	4958	CYS	CA-C	-7.23	1.43	1.52
1	A	1641	ILE	N-CA	-7.22	1.41	1.46
1	E	5028	PHE	CA-C	-7.22	1.43	1.52
1	C	4671	PHE	CA-C	-7.22	1.43	1.52
1	C	4982	GLU	C-O	-7.21	1.14	1.24
1	A	4982	GLU	C-O	-7.21	1.14	1.24
1	G	4192	ARG	C-O	-7.21	1.14	1.23
1	E	599	VAL	CA-CB	-7.20	1.45	1.54
1	C	5028	PHE	CA-C	-7.19	1.43	1.52
1	A	5028	PHE	CA-C	-7.19	1.43	1.52
1	G	599	VAL	CA-CB	-7.18	1.45	1.54
1	E	5014	TYR	CG-CD1	-7.17	1.24	1.39
1	C	1448	VAL	C-O	7.15	1.32	1.23
1	E	4982	GLU	C-O	-7.15	1.14	1.24
1	G	1641	ILE	N-CA	-7.13	1.41	1.46
1	E	1448	VAL	C-O	7.12	1.32	1.23
1	A	1448	VAL	C-O	7.12	1.32	1.23
1	G	4958	CYS	CA-C	-7.11	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	599	VAL	CA-CB	-7.11	1.45	1.54
1	A	599	VAL	CA-CB	-7.11	1.45	1.54
1	E	4671	PHE	CA-C	-7.09	1.43	1.52
1	G	4233	LEU	CA-C	-7.09	1.43	1.52
1	G	4664	LEU	CA-C	-7.00	1.48	1.52
1	A	4671	PHE	CA-C	-7.00	1.44	1.52
1	A	4202	ARG	CA-C	-6.97	1.43	1.52
1	C	5014	TYR	CG-CD1	-6.96	1.24	1.39
1	G	5014	TYR	CG-CD1	-6.96	1.24	1.39
1	C	1641	ILE	N-CA	-6.95	1.41	1.46
1	E	4988	TYR	CG-CD2	-6.94	1.24	1.39
1	G	5009	TYR	CA-C	-6.94	1.43	1.52
1	C	4988	TYR	CG-CD2	-6.94	1.24	1.39
1	A	4988	TYR	CG-CD2	-6.92	1.24	1.39
1	C	4202	ARG	CA-C	-6.92	1.43	1.52
1	G	4850	LEU	N-CA	-6.90	1.37	1.46
1	E	4202	ARG	CA-C	-6.90	1.43	1.52
1	E	4979	THR	CA-C	-6.89	1.45	1.53
1	E	4846	VAL	CA-C	-6.88	1.43	1.52
1	E	4958	CYS	C-O	-6.87	1.15	1.24
1	G	4927	ILE	CA-C	-6.86	1.44	1.52
1	A	3929	SER	CA-C	-6.85	1.44	1.52
1	G	5028	PHE	CA-C	-6.82	1.44	1.52
1	G	3966	THR	N-CA	-6.82	1.38	1.46
1	A	4958	CYS	C-O	-6.79	1.15	1.24
1	C	3967	GLU	C-O	-6.79	1.15	1.24
1	C	4958	CYS	C-O	-6.78	1.15	1.24
1	C	4846	VAL	CA-C	-6.74	1.44	1.52
1	A	3967	GLU	C-O	-6.73	1.15	1.24
1	A	4846	VAL	CA-C	-6.73	1.44	1.52
1	E	3929	SER	CA-C	-6.73	1.44	1.52
1	E	3995	VAL	CA-C	-6.72	1.44	1.52
1	E	4920	PHE	CA-CB	-6.71	1.42	1.53
1	G	3926	LEU	CA-C	-6.71	1.43	1.52
1	G	3881	THR	C-O	-6.71	1.15	1.24
1	A	4920	PHE	CA-CB	-6.71	1.42	1.53
1	E	3967	GLU	C-O	-6.71	1.15	1.24
1	C	4979	THR	CA-C	-6.69	1.46	1.53
1	C	3929	SER	CA-C	-6.68	1.44	1.52
1	C	4983	HIS	CB-CG	-6.65	1.40	1.50
1	E	4958	CYS	CA-C	-6.63	1.43	1.52
1	A	3995	VAL	CA-C	-6.62	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	3995	VAL	CA-C	-6.61	1.44	1.52
1	G	4979	THR	CA-C	-6.61	1.46	1.53
1	C	3724	ALA	CA-C	-6.60	1.44	1.52
1	C	4920	PHE	CA-CB	-6.59	1.42	1.53
1	E	4939	ALA	N-CA	-6.59	1.38	1.46
1	G	3780	LEU	N-CA	-6.53	1.38	1.46
1	G	4960	ILE	N-CA	-6.51	1.38	1.46
1	A	4983	HIS	CB-CG	-6.51	1.41	1.50
1	G	4237	PHE	CA-C	-6.49	1.44	1.52
1	E	4983	HIS	CB-CG	-6.49	1.41	1.50
1	G	4808	PHE	CA-C	-6.48	1.43	1.52
1	A	4994	TYR	CA-C	-6.46	1.44	1.52
1	C	4847	VAL	N-CA	-6.45	1.38	1.46
1	G	3964	SER	CA-C	-6.44	1.44	1.52
1	G	5026	ASP	N-CA	-6.44	1.37	1.46
1	E	4994	TYR	CA-C	-6.44	1.44	1.52
1	C	4939	ALA	N-CA	-6.44	1.38	1.46
1	E	4233	LEU	CA-C	-6.41	1.44	1.52
1	A	4939	ALA	N-CA	-6.41	1.38	1.46
1	A	4233	LEU	CA-C	-6.39	1.44	1.52
1	C	4994	TYR	CA-C	-6.39	1.44	1.52
1	C	4233	LEU	CA-C	-6.38	1.44	1.52
1	A	5026	ASP	N-CA	-6.37	1.37	1.46
1	G	5013	MET	CA-C	-6.37	1.44	1.52
1	C	5009	TYR	CA-C	-6.34	1.44	1.52
1	E	4847	VAL	CA-C	-6.34	1.44	1.52
1	A	4932	ILE	N-CA	-6.33	1.39	1.46
1	E	3724	ALA	CA-C	-6.33	1.44	1.52
1	G	4190	ILE	CA-C	-6.33	1.47	1.53
1	G	4988	TYR	CA-CB	-6.33	1.43	1.53
1	E	5009	TYR	CA-C	-6.31	1.44	1.52
1	E	4029	SER	CA-C	-6.31	1.44	1.52
1	A	4988	TYR	CA-CB	-6.29	1.42	1.53
1	A	4029	SER	CA-C	-6.29	1.44	1.52
1	E	4847	VAL	N-CA	-6.29	1.38	1.46
1	A	3724	ALA	CA-C	-6.28	1.45	1.52
1	G	3991	GLY	CA-C	-6.28	1.45	1.52
1	G	4985	LEU	CA-C	-6.26	1.44	1.52
1	C	4029	SER	CA-C	-6.26	1.44	1.52
1	C	5026	ASP	N-CA	-6.26	1.37	1.46
1	C	5023	PRO	N-CA	-6.25	1.39	1.47
1	G	3958	ALA	C-O	-6.24	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4847	VAL	CA-C	-6.22	1.44	1.52
1	E	5026	ASP	N-CA	-6.22	1.37	1.46
1	G	4029	SER	CA-C	-6.21	1.44	1.52
1	G	3929	SER	CA-C	-6.21	1.45	1.52
1	E	4932	ILE	N-CA	-6.20	1.38	1.46
1	C	4856	PHE	C-O	-6.20	1.16	1.24
1	A	4847	VAL	N-CA	-6.18	1.39	1.46
1	A	5009	TYR	CA-C	-6.18	1.45	1.52
1	E	4988	TYR	N-CA	-6.18	1.38	1.46
1	C	4988	TYR	CA-CB	-6.18	1.43	1.53
1	G	3812	VAL	CA-C	-6.18	1.44	1.52
1	E	5023	PRO	N-CA	-6.18	1.39	1.47
1	G	4981	GLU	C-N	-6.18	1.25	1.33
1	A	5023	PRO	N-CA	-6.18	1.39	1.47
1	G	4979	THR	N-CA	-6.17	1.40	1.46
1	E	4849	TYR	CA-CB	-6.16	1.43	1.53
1	E	4988	TYR	CA-CB	-6.16	1.43	1.53
1	A	4183	ILE	C-O	6.15	1.30	1.23
1	E	3900	GLN	CA-C	-6.14	1.45	1.52
1	C	3900	GLN	CA-C	-6.14	1.45	1.52
1	C	4847	VAL	CA-C	-6.14	1.44	1.52
1	C	3968	TYR	C-O	-6.13	1.16	1.24
1	E	4856	PHE	C-O	-6.13	1.16	1.24
1	G	5023	PRO	N-CA	-6.11	1.39	1.47
1	C	4849	TYR	CA-CB	-6.11	1.43	1.53
1	A	3780	LEU	N-CA	-6.10	1.38	1.46
1	A	3968	TYR	C-O	-6.09	1.16	1.24
1	E	4039	MET	C-O	6.08	1.31	1.24
1	G	4844	LEU	CA-C	-6.08	1.45	1.52
1	A	3900	GLN	CA-C	-6.07	1.45	1.52
1	A	4186	ALA	N-CA	-6.06	1.38	1.46
1	E	3780	LEU	N-CA	-6.06	1.38	1.46
1	A	3966	THR	C-O	-6.05	1.17	1.24
1	C	4183	ILE	C-O	6.05	1.30	1.23
1	E	4938	ASP	CA-C	-6.05	1.44	1.52
1	E	3966	THR	C-O	-6.05	1.17	1.24
1	C	3966	THR	C-O	-6.01	1.17	1.24
1	G	4178	LEU	CA-C	-6.00	1.45	1.52
1	A	4234	PHE	CA-CB	-6.00	1.44	1.53
1	E	3968	TYR	C-O	-6.00	1.16	1.24
1	G	5010	VAL	CA-CB	-5.99	1.46	1.54
1	A	4039	MET	C-O	5.99	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4856	PHE	C-O	-5.99	1.16	1.24
1	C	4190	ILE	CA-C	-5.99	1.48	1.53
1	C	4808	PHE	CA-C	-5.99	1.44	1.52
1	C	5013	MET	CA-C	-5.99	1.44	1.52
1	C	3933	PHE	CA-CB	-5.98	1.44	1.53
1	A	4849	TYR	CA-CB	-5.96	1.43	1.53
1	C	3922	TYR	CG-CD1	-5.96	1.26	1.39
1	A	5013	MET	CA-C	-5.95	1.44	1.52
1	C	4988	TYR	N-CA	-5.95	1.38	1.46
1	C	3780	LEU	N-CA	-5.95	1.38	1.46
1	E	3922	TYR	CG-CD1	-5.95	1.26	1.39
1	A	4808	PHE	CA-C	-5.95	1.44	1.52
1	C	4924	VAL	CA-CB	-5.94	1.46	1.54
1	G	4836	GLN	CA-C	-5.94	1.44	1.52
1	E	4183	ILE	C-O	5.94	1.29	1.23
1	C	3922	TYR	CE1-CZ	-5.94	1.24	1.38
1	A	4988	TYR	N-CA	-5.93	1.38	1.46
1	A	4849	TYR	CG-CD1	-5.93	1.26	1.39
1	G	4672	LYS	N-CA	-5.93	1.38	1.46
1	G	4920	PHE	CA-CB	-5.93	1.43	1.53
1	G	4939	ALA	N-CA	-5.93	1.39	1.46
1	A	3933	PHE	CA-CB	-5.91	1.44	1.53
1	C	4039	MET	C-O	5.91	1.31	1.24
1	E	5008	SER	CA-C	-5.91	1.44	1.52
1	A	3812	VAL	CA-C	-5.91	1.45	1.52
1	E	3812	VAL	CA-C	-5.90	1.45	1.52
1	C	4932	ILE	N-CA	-5.90	1.39	1.46
1	E	3922	TYR	CE1-CZ	-5.90	1.24	1.38
1	E	3933	PHE	CA-CB	-5.90	1.44	1.53
1	A	3922	TYR	CE1-CZ	-5.90	1.24	1.38
1	E	5013	MET	CA-C	-5.89	1.44	1.52
1	G	5008	SER	CA-C	-5.89	1.45	1.52
1	A	4935	LEU	CA-CB	-5.88	1.44	1.53
1	C	4178	LEU	CA-C	-5.88	1.45	1.52
1	A	3922	TYR	CG-CD1	-5.87	1.27	1.39
1	C	4234	PHE	CA-CB	-5.87	1.44	1.53
1	E	4808	PHE	CA-C	-5.87	1.44	1.52
1	G	4988	TYR	N-CA	-5.87	1.39	1.46
1	A	4192	ARG	CZ-NH2	-5.86	1.25	1.33
1	A	4193	ILE	CA-CB	-5.86	1.47	1.54
1	E	4192	ARG	CZ-NH2	-5.86	1.25	1.33
1	A	5008	SER	CA-C	-5.86	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4178	LEU	CA-C	-5.86	1.45	1.52
1	C	4938	ASP	CA-C	-5.85	1.44	1.52
1	C	5029	ARG	CA-C	-5.85	1.45	1.52
1	E	4186	ALA	N-CA	-5.85	1.39	1.46
1	C	5008	SER	CA-C	-5.84	1.44	1.52
1	C	5010	VAL	CA-CB	-5.84	1.47	1.54
1	A	4938	ASP	CA-C	-5.83	1.44	1.52
1	G	4186	ALA	N-CA	-5.83	1.39	1.46
1	C	4204	GLN	CA-C	-5.82	1.44	1.52
1	E	4924	VAL	CA-CB	-5.82	1.46	1.54
1	G	4891	VAL	C-O	-5.82	1.16	1.24
1	C	4192	ARG	CZ-NH2	-5.82	1.25	1.33
1	C	4193	ILE	CA-CB	-5.81	1.47	1.54
1	A	3789	GLU	CA-C	-5.80	1.45	1.52
1	C	3789	GLU	CA-C	-5.80	1.45	1.52
1	E	4935	LEU	CA-CB	-5.80	1.44	1.53
1	G	4846	VAL	CA-C	-5.80	1.44	1.52
1	C	4186	ALA	N-CA	-5.79	1.39	1.46
1	A	4190	ILE	CA-C	-5.77	1.48	1.53
1	A	5029	ARG	CA-C	-5.77	1.45	1.52
1	A	4981	GLU	C-N	-5.76	1.26	1.33
1	E	3769	ARG	CA-C	-5.76	1.45	1.52
1	E	4849	TYR	CG-CD1	-5.76	1.27	1.39
1	C	3812	VAL	CA-C	-5.75	1.45	1.52
1	E	4234	PHE	CA-CB	-5.75	1.44	1.53
1	E	3789	GLU	CA-C	-5.75	1.45	1.52
1	E	4574	ASN	CG-ND2	-5.75	1.21	1.33
1	A	4178	LEU	CA-C	-5.74	1.45	1.52
1	G	3902	TYR	CA-C	-5.74	1.44	1.52
1	E	4193	ILE	CA-CB	-5.74	1.47	1.54
1	C	3890	LEU	CA-C	-5.74	1.44	1.52
1	G	3900	GLN	CA-C	-5.74	1.45	1.52
1	A	4143	VAL	CA-C	-5.73	1.45	1.52
1	C	3800	LEU	CA-C	-5.73	1.45	1.52
1	G	4984	ASN	CA-C	-5.73	1.45	1.53
1	E	5010	VAL	CA-CB	-5.73	1.47	1.54
1	C	3976	ASN	C-O	-5.72	1.17	1.24
1	G	4193	ILE	CA-CB	-5.72	1.46	1.54
1	C	3921	ASP	CA-C	-5.71	1.45	1.52
1	A	3916	ILE	CA-C	-5.71	1.45	1.52
1	C	3916	ILE	CA-C	-5.71	1.45	1.52
1	C	4849	TYR	CG-CD1	-5.71	1.27	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	5024	ALA	CA-C	-5.71	1.45	1.53
1	E	4981	GLU	C-N	-5.71	1.26	1.33
1	C	4981	GLU	C-N	-5.71	1.26	1.33
1	G	4184	MET	CA-C	-5.70	1.45	1.52
1	G	4938	ASP	CA-C	-5.70	1.45	1.52
1	G	5029	ARG	CA-C	-5.69	1.45	1.52
1	E	3903	LEU	C-O	-5.69	1.16	1.24
1	E	5029	ARG	CA-C	-5.69	1.45	1.52
1	C	3769	ARG	CA-C	-5.69	1.45	1.52
1	E	4182	GLU	CA-C	-5.69	1.45	1.52
1	G	4824	ARG	CA-C	-5.69	1.45	1.52
1	G	4854	VAL	CA-C	-5.68	1.45	1.52
1	G	4961	CYS	C-O	-5.68	1.17	1.24
1	A	3769	ARG	CA-C	-5.68	1.45	1.52
1	C	4143	VAL	CA-C	-5.68	1.45	1.52
1	E	3976	ASN	C-O	-5.67	1.17	1.24
1	E	4829	SER	CA-C	-5.67	1.45	1.52
1	E	4190	ILE	CA-C	-5.67	1.48	1.53
1	E	3916	ILE	CA-C	-5.66	1.46	1.52
1	A	4995	LEU	N-CA	-5.65	1.39	1.46
1	C	4995	LEU	N-CA	-5.65	1.39	1.46
1	A	3976	ASN	C-O	-5.65	1.17	1.24
1	A	4182	GLU	CA-C	-5.65	1.45	1.52
1	A	4184	MET	CA-C	-5.65	1.45	1.52
1	G	3800	LEU	CA-C	-5.64	1.45	1.52
1	A	3991	GLY	CA-C	-5.64	1.46	1.52
1	A	3903	LEU	C-O	-5.63	1.16	1.24
1	A	5024	ALA	CA-C	-5.62	1.45	1.53
1	E	4995	LEU	N-CA	-5.62	1.39	1.46
1	G	4678	ALA	CA-C	-5.61	1.45	1.52
1	E	5024	ALA	CA-C	-5.61	1.45	1.53
1	G	4145	VAL	CA-C	-5.61	1.46	1.52
1	E	4143	VAL	CA-C	-5.60	1.45	1.52
1	E	4145	VAL	CA-C	-5.60	1.45	1.52
1	A	5010	VAL	CA-CB	-5.59	1.47	1.54
1	G	4204	GLN	CA-C	-5.59	1.45	1.52
1	E	3723	MET	N-CA	-5.58	1.39	1.46
1	E	4915	VAL	CA-C	-5.58	1.45	1.52
1	C	3991	GLY	CA-C	-5.58	1.46	1.52
1	C	3903	LEU	C-O	-5.58	1.16	1.24
1	C	4182	GLU	CA-C	-5.58	1.45	1.52
1	G	4038	GLY	CA-C	-5.57	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	3799	LYS	N-CA	-5.57	1.39	1.46
1	C	4574	ASN	CG-ND2	-5.57	1.21	1.33
1	G	4847	VAL	N-CA	-5.57	1.39	1.46
1	G	4924	VAL	CA-CB	-5.57	1.46	1.54
1	A	4915	VAL	CA-C	-5.56	1.45	1.52
1	G	3700	GLN	CA-C	-5.56	1.45	1.52
1	A	3921	ASP	CA-C	-5.56	1.45	1.52
1	E	3890	LEU	CA-C	-5.56	1.45	1.52
1	E	3922	TYR	CG-CD2	-5.56	1.27	1.39
1	G	4195	PHE	C-O	-5.55	1.16	1.23
1	E	3799	LYS	N-CA	-5.55	1.39	1.46
1	C	3922	TYR	CG-CD2	-5.55	1.27	1.39
1	C	4145	VAL	CA-C	-5.55	1.45	1.52
1	A	3922	TYR	CG-CD2	-5.54	1.27	1.39
1	A	4145	VAL	CA-C	-5.54	1.45	1.52
1	G	3789	GLU	CA-C	-5.54	1.45	1.52
1	C	4141	PHE	CA-C	-5.53	1.45	1.52
1	E	3800	LEU	CA-C	-5.53	1.45	1.52
1	A	4963	ILE	CA-CB	-5.53	1.46	1.54
1	C	4939	ALA	C-O	5.53	1.30	1.24
1	C	3804	ILE	CA-C	-5.53	1.44	1.52
1	E	4184	MET	CA-C	-5.53	1.45	1.52
1	G	4933	GLN	CA-C	-5.53	1.45	1.52
1	A	4829	SER	CA-C	-5.53	1.45	1.52
1	A	4924	VAL	CA-CB	-5.52	1.47	1.54
1	G	4148	THR	CA-C	-5.52	1.45	1.52
1	A	4891	VAL	C-O	-5.52	1.17	1.24
1	G	4849	TYR	CG-CD1	-5.51	1.27	1.39
1	A	4574	ASN	CG-ND2	-5.51	1.21	1.33
1	A	4888	TYR	CA-C	-5.51	1.46	1.52
1	E	4204	GLN	CA-C	-5.51	1.45	1.52
1	E	3991	GLY	CA-C	-5.50	1.46	1.52
1	E	3921	ASP	CA-C	-5.50	1.45	1.52
1	G	2202	GLY	C-O	-5.49	1.17	1.23
1	A	4204	GLN	CA-C	-5.49	1.45	1.52
1	E	4891	VAL	C-O	-5.49	1.17	1.24
1	A	3799	LYS	N-CA	-5.48	1.39	1.46
1	E	4972	PRO	CA-C	-5.47	1.45	1.52
1	G	4937	ILE	C-O	-5.47	1.18	1.24
1	E	4963	ILE	CA-CB	-5.47	1.46	1.54
1	E	4888	TYR	CA-C	-5.47	1.46	1.52
1	C	4891	VAL	C-O	-5.47	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4028	LEU	C-O	-5.47	1.17	1.24
1	A	4972	PRO	CA-C	-5.46	1.45	1.52
1	G	4239	GLU	C-O	-5.46	1.17	1.24
1	A	3890	LEU	CA-C	-5.46	1.45	1.52
1	A	3919	THR	CB-CG2	-5.46	1.34	1.52
1	C	4184	MET	CA-C	-5.46	1.45	1.52
1	E	3804	ILE	CA-C	-5.46	1.44	1.52
1	G	4795	TYR	CA-C	-5.46	1.45	1.52
1	A	3723	MET	N-CA	-5.45	1.39	1.46
1	A	3800	LEU	CA-C	-5.45	1.45	1.52
1	C	4829	SER	CA-C	-5.45	1.45	1.52
1	C	4888	TYR	CA-C	-5.45	1.46	1.52
1	G	3922	TYR	CA-CB	-5.45	1.44	1.53
1	G	4192	ARG	CZ-NH2	-5.44	1.26	1.33
1	G	3833	GLN	CA-C	-5.44	1.46	1.52
1	A	3804	ILE	CA-C	-5.43	1.44	1.52
1	C	4979	THR	N-CA	-5.43	1.40	1.46
1	E	4939	ALA	C-O	5.42	1.30	1.24
1	G	4888	TYR	C-O	-5.42	1.17	1.24
1	G	3890	LEU	CA-C	-5.42	1.45	1.52
1	C	4915	VAL	CA-C	-5.42	1.45	1.52
1	C	4963	ILE	CA-CB	-5.42	1.47	1.54
1	E	4141	PHE	CA-C	-5.42	1.46	1.52
1	C	5009	TYR	CA-CB	-5.41	1.44	1.53
1	C	3799	LYS	N-CA	-5.41	1.39	1.46
1	A	2202	GLY	C-O	-5.41	1.17	1.23
1	C	3723	MET	N-CA	-5.40	1.39	1.46
1	G	4182	GLU	CA-C	-5.40	1.46	1.52
1	G	4965	SER	CA-C	-5.40	1.47	1.53
1	A	4939	ALA	C-O	5.40	1.30	1.24
1	E	2202	GLY	C-O	-5.40	1.17	1.23
1	A	4904	PRO	N-CA	-5.39	1.40	1.47
1	E	3919	THR	CB-CG2	-5.39	1.34	1.52
1	C	4972	PRO	CA-C	-5.38	1.45	1.52
1	E	5009	TYR	CA-CB	-5.38	1.44	1.53
1	A	5009	TYR	CG-CD2	-5.38	1.28	1.39
1	A	5009	TYR	CA-CB	-5.37	1.44	1.53
1	C	4664	LEU	CA-C	-5.37	1.48	1.52
1	A	4141	PHE	CA-C	-5.37	1.46	1.52
1	G	5009	TYR	CG-CD2	-5.36	1.28	1.39
1	A	4824	ARG	CA-C	-5.35	1.45	1.52
1	G	3935	TRP	N-CA	-5.35	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	4851	TYR	CG-CD1	-5.35	1.28	1.39
1	A	4028	LEU	C-O	-5.34	1.17	1.24
1	C	2202	GLY	C-O	-5.34	1.17	1.23
1	C	3919	THR	CB-CG2	-5.33	1.34	1.52
1	C	204	PRO	CA-C	-5.33	1.46	1.52
1	C	3700	GLN	CA-C	-5.33	1.45	1.52
1	G	3962	PHE	N-CA	-5.33	1.39	1.46
1	G	4981	GLU	N-CA	-5.33	1.40	1.46
1	A	4664	LEU	CA-C	-5.32	1.48	1.52
1	G	4963	ILE	CA-CB	-5.32	1.47	1.54
1	C	4160	LEU	CA-C	-5.32	1.46	1.52
1	E	5009	TYR	CG-CD2	-5.32	1.28	1.39
1	A	4160	LEU	CA-C	-5.31	1.46	1.52
1	A	4961	CYS	C-O	-5.31	1.17	1.24
1	C	5009	TYR	CG-CD2	-5.31	1.28	1.39
1	G	1640	HIS	C-O	-5.31	1.17	1.23
1	C	4961	CYS	C-O	-5.31	1.17	1.24
1	C	4965	SER	CA-C	-5.31	1.47	1.53
1	G	4039	MET	C-O	5.31	1.30	1.24
1	A	5014	TYR	CE2-CZ	-5.30	1.25	1.38
1	E	4978	HIS	CA-C	-5.30	1.45	1.52
1	G	3916	ILE	CA-C	-5.30	1.46	1.52
1	E	4979	THR	N-CA	-5.30	1.41	1.46
1	G	5022	PHE	CG-CD2	-5.29	1.27	1.38
1	A	4233	LEU	N-CA	-5.29	1.39	1.46
1	E	4961	CYS	C-O	-5.29	1.17	1.24
1	G	400	ALA	CA-C	-5.29	1.47	1.53
1	A	4935	LEU	CB-CG	-5.29	1.42	1.53
1	E	565	TYR	CA-C	-5.29	1.46	1.52
1	G	204	PRO	CA-C	-5.29	1.46	1.52
1	E	4904	PRO	N-CA	-5.28	1.40	1.47
1	E	204	PRO	CA-C	-5.28	1.46	1.52
1	G	4175	ARG	C-O	-5.28	1.19	1.24
1	G	4234	PHE	CG-CD1	-5.28	1.27	1.38
1	G	3880	PHE	C-O	-5.28	1.17	1.24
1	C	4935	LEU	CA-CB	-5.28	1.44	1.53
1	G	4160	LEU	CA-C	-5.27	1.45	1.52
1	A	400	ALA	CA-C	-5.27	1.47	1.53
1	A	3700	GLN	CA-C	-5.27	1.46	1.52
1	E	4160	LEU	CA-C	-5.27	1.46	1.52
1	G	3884	LEU	N-CA	-5.26	1.40	1.46
1	G	3794	VAL	C-O	-5.26	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4183	ILE	CB-CG1	-5.26	1.43	1.53
1	A	5022	PHE	CG-CD2	-5.26	1.27	1.38
1	C	4028	LEU	C-O	-5.26	1.17	1.24
1	C	5022	PHE	CG-CD2	-5.26	1.27	1.38
1	E	4854	VAL	CA-C	-5.25	1.45	1.52
1	G	4942	GLU	CA-C	-5.25	1.45	1.52
1	G	3976	ASN	C-O	-5.24	1.18	1.24
1	E	1640	HIS	C-O	-5.24	1.17	1.23
1	E	4826	ILE	CA-CB	-5.23	1.48	1.54
1	C	3724	ALA	N-CA	-5.23	1.40	1.46
1	E	5022	PHE	CG-CD2	-5.23	1.27	1.38
1	C	4826	ILE	CA-CB	-5.23	1.48	1.54
1	G	4849	TYR	CA-CB	-5.23	1.44	1.53
1	E	4183	ILE	CB-CG1	-5.23	1.43	1.53
1	A	4965	SER	CA-C	-5.22	1.47	1.53
1	E	3700	GLN	CA-C	-5.22	1.46	1.52
1	A	3724	ALA	N-CA	-5.22	1.40	1.46
1	E	4664	LEU	CA-C	-5.22	1.48	1.52
1	A	204	PRO	CA-C	-5.21	1.46	1.52
1	G	5020	ASP	CA-C	-5.21	1.45	1.52
1	A	4826	ILE	CA-CB	-5.21	1.48	1.54
1	C	4233	LEU	N-CA	-5.21	1.39	1.46
1	G	4972	PRO	CA-C	-5.21	1.46	1.52
1	C	4175	ARG	C-O	-5.21	1.19	1.24
1	A	1640	HIS	C-O	-5.20	1.17	1.23
1	A	565	TYR	CA-C	-5.20	1.46	1.52
1	C	3835	LEU	N-CA	-5.20	1.40	1.46
1	C	4824	ARG	CA-C	-5.20	1.46	1.52
1	C	4142	ASN	N-CA	-5.20	1.39	1.46
1	E	4965	SER	CA-C	-5.19	1.47	1.53
1	C	400	ALA	CA-C	-5.19	1.47	1.53
1	C	1640	HIS	C-O	-5.19	1.17	1.23
1	G	3882	GLN	CA-C	-5.19	1.45	1.52
1	G	4995	LEU	N-CA	-5.19	1.39	1.46
1	G	4950	VAL	CA-C	-5.19	1.46	1.52
1	E	400	ALA	CA-C	-5.19	1.47	1.53
1	C	4237	PHE	CA-C	-5.18	1.46	1.52
1	C	4672	LYS	N-CA	-5.18	1.39	1.46
1	E	5014	TYR	CE2-CZ	-5.18	1.25	1.38
1	E	4190	ILE	CA-CB	-5.18	1.48	1.53
1	C	565	TYR	CA-C	-5.17	1.46	1.52
1	G	4142	ASN	N-CA	-5.17	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	4946	GLN	C-O	-5.16	1.17	1.24
1	E	4672	LYS	N-CA	-5.16	1.39	1.46
1	C	625	LEU	CA-C	-5.16	1.47	1.52
1	A	4237	PHE	CA-C	-5.15	1.46	1.52
1	E	4237	PHE	CA-C	-5.15	1.46	1.52
1	C	5014	TYR	CE2-CZ	-5.15	1.25	1.38
1	G	3967	GLU	C-O	-5.15	1.17	1.24
1	E	4175	ARG	C-O	-5.14	1.19	1.24
1	E	4190	ILE	N-CA	-5.14	1.41	1.46
1	C	4183	ILE	CB-CG1	-5.14	1.43	1.53
1	E	3835	LEU	N-CA	-5.14	1.40	1.46
1	A	4142	ASN	N-CA	-5.14	1.39	1.46
1	G	3921	ASP	CA-C	-5.14	1.45	1.52
1	G	3964	SER	CA-CB	-5.13	1.45	1.53
1	E	4946	GLN	C-O	-5.13	1.17	1.24
1	E	4974	GLY	CA-C	-5.13	1.46	1.52
1	C	4854	VAL	CA-C	-5.12	1.45	1.52
1	A	3835	LEU	N-CA	-5.12	1.40	1.46
1	G	5014	TYR	CE2-CZ	-5.12	1.25	1.38
1	G	4936	ILE	CA-CB	-5.11	1.47	1.54
1	G	3922	TYR	CG-CD1	-5.11	1.28	1.39
1	G	565	TYR	CA-C	-5.11	1.46	1.52
1	G	3769	ARG	CA-C	-5.11	1.46	1.52
1	E	3724	ALA	N-CA	-5.11	1.40	1.46
1	A	4854	VAL	CA-C	-5.11	1.45	1.52
1	C	4175	ARG	CA-C	-5.11	1.46	1.52
1	A	4672	LYS	N-CA	-5.10	1.39	1.46
1	C	4978	HIS	CA-C	-5.10	1.45	1.52
1	A	4175	ARG	C-O	-5.10	1.19	1.24
1	G	5004	THR	CA-C	-5.10	1.46	1.53
1	E	4233	LEU	N-CA	-5.09	1.39	1.46
1	G	4983	HIS	CB-CG	-5.09	1.43	1.50
1	C	4904	PRO	N-CA	-5.09	1.41	1.47
1	G	4190	ILE	CA-CB	-5.09	1.48	1.53
1	G	4830	VAL	CA-C	-5.09	1.47	1.52
1	G	4183	ILE	C-O	5.08	1.29	1.23
1	E	4142	ASN	N-CA	-5.08	1.39	1.46
1	A	3884	LEU	N-CA	-5.07	1.40	1.46
1	A	5021	PHE	CA-CB	-5.07	1.44	1.53
1	G	4183	ILE	CB-CG1	-5.07	1.43	1.53
1	A	4190	ILE	N-CA	-5.07	1.41	1.46
1	G	4028	LEU	C-O	-5.06	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	4847	VAL	CA-CB	-5.06	1.47	1.54
1	A	4978	HIS	CA-C	-5.05	1.45	1.52
1	G	4958	CYS	C-O	-5.05	1.17	1.24
1	E	4846	VAL	CA-CB	-5.05	1.47	1.54
1	A	4846	VAL	CA-CB	-5.05	1.47	1.54
1	G	4230	LYS	CA-C	-5.05	1.46	1.52
1	G	5027	CYS	CA-CB	-5.05	1.45	1.53
1	E	4935	LEU	CB-CG	-5.04	1.43	1.53
1	C	4972	PRO	C-O	-5.04	1.17	1.23
1	E	4824	ARG	CA-C	-5.04	1.46	1.52
1	E	4972	PRO	C-O	-5.04	1.17	1.23
1	E	4991	PHE	CG-CD1	-5.04	1.28	1.38
1	C	4190	ILE	CA-CB	-5.03	1.48	1.53
1	E	3884	LEU	N-CA	-5.03	1.40	1.46
1	E	4038	GLY	CA-C	-5.03	1.46	1.52
1	C	4974	GLY	CA-C	-5.03	1.46	1.52
1	G	625	LEU	CA-C	-5.03	1.48	1.52
1	G	4191	GLU	N-CA	-5.03	1.39	1.46
1	C	3914	ASN	CA-C	-5.03	1.46	1.53
1	C	2925	GLU	N-CA	-5.03	1.41	1.47
1	C	3887	PHE	CA-CB	-5.03	1.45	1.53
1	C	4191	GLU	CA-C	-5.03	1.46	1.52
1	G	4191	GLU	CA-C	-5.03	1.46	1.52
1	G	4978	HIS	CA-C	-5.03	1.45	1.52
1	A	3887	PHE	CA-CB	-5.02	1.45	1.53
1	G	3914	ASN	CA-C	-5.02	1.46	1.53
1	A	4038	GLY	CA-C	-5.01	1.46	1.52
1	C	4038	GLY	CA-C	-5.01	1.46	1.52
1	A	3775	ALA	CA-C	-5.01	1.46	1.52
1	C	4190	ILE	N-CA	-5.01	1.41	1.46
1	C	4916	PHE	CA-CB	-5.01	1.45	1.53
1	E	625	LEU	CA-C	-5.00	1.48	1.52
1	G	4928	LEU	CA-CB	-5.00	1.45	1.53

All (524) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	915	GLU	CA-C-N	19.17	143.81	119.84
1	A	915	GLU	C-N-CA	19.17	143.81	119.84
1	G	915	GLU	CA-C-N	19.15	143.77	119.84
1	G	915	GLU	C-N-CA	19.15	143.77	119.84
1	C	915	GLU	CA-C-N	19.08	143.69	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	915	GLU	C-N-CA	19.08	143.69	119.84
1	E	915	GLU	CA-C-N	19.05	143.65	119.84
1	E	915	GLU	C-N-CA	19.05	143.65	119.84
1	G	1284	VAL	N-CA-C	14.20	125.10	110.62
1	A	1284	VAL	N-CA-C	14.19	125.10	110.62
1	C	1284	VAL	N-CA-C	14.16	125.07	110.62
1	E	1284	VAL	N-CA-C	14.15	125.05	110.62
1	E	805	PRO	CA-C-N	12.81	135.85	119.84
1	E	805	PRO	C-N-CA	12.81	135.85	119.84
1	G	805	PRO	CA-C-N	12.79	135.83	119.84
1	G	805	PRO	C-N-CA	12.79	135.83	119.84
1	C	805	PRO	CA-C-N	12.68	135.69	119.84
1	C	805	PRO	C-N-CA	12.68	135.69	119.84
1	A	805	PRO	CA-C-N	12.53	135.50	119.84
1	A	805	PRO	C-N-CA	12.53	135.50	119.84
1	A	4083	ASP	CA-C-N	12.38	135.31	119.84
1	A	4083	ASP	C-N-CA	12.38	135.31	119.84
1	E	4083	ASP	CA-C-N	12.35	135.28	119.84
1	E	4083	ASP	C-N-CA	12.35	135.28	119.84
1	C	4083	ASP	CA-C-N	12.30	135.22	119.84
1	C	4083	ASP	C-N-CA	12.30	135.22	119.84
1	G	4083	ASP	CA-C-N	12.01	134.85	119.84
1	G	4083	ASP	C-N-CA	12.01	134.85	119.84
1	G	1828	ASP	CA-C-N	10.41	132.86	119.84
1	G	1828	ASP	C-N-CA	10.41	132.86	119.84
1	E	1828	ASP	CA-C-N	10.38	132.81	119.84
1	E	1828	ASP	C-N-CA	10.38	132.81	119.84
1	A	1828	ASP	CA-C-N	10.37	132.80	119.84
1	A	1828	ASP	C-N-CA	10.37	132.80	119.84
1	C	1828	ASP	CA-C-N	10.36	132.79	119.84
1	C	1828	ASP	C-N-CA	10.36	132.79	119.84
1	A	864	PRO	CA-C-N	10.07	132.43	119.84
1	A	864	PRO	C-N-CA	10.07	132.43	119.84
1	C	864	PRO	CA-C-N	10.05	132.40	119.84
1	C	864	PRO	C-N-CA	10.05	132.40	119.84
1	E	864	PRO	CA-C-N	10.04	132.39	119.84
1	E	864	PRO	C-N-CA	10.04	132.39	119.84
1	G	864	PRO	CA-C-N	10.03	132.38	119.84
1	G	864	PRO	C-N-CA	10.03	132.38	119.84
1	A	1495	VAL	N-CA-CB	-9.83	101.01	112.32
1	C	1495	VAL	N-CA-CB	-9.80	101.05	112.32
1	G	1495	VAL	N-CA-CB	-9.79	101.07	112.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1495	VAL	N-CA-CB	-9.63	101.25	112.32
1	A	1931	LEU	CA-C-N	8.62	128.56	119.85
1	A	1931	LEU	C-N-CA	8.62	128.56	119.85
1	E	1931	LEU	CA-C-N	8.54	128.47	119.85
1	E	1931	LEU	C-N-CA	8.54	128.47	119.85
1	C	1931	LEU	CA-C-N	8.53	128.56	119.78
1	C	1931	LEU	C-N-CA	8.53	128.56	119.78
1	G	1931	LEU	CA-C-N	8.46	128.39	119.85
1	G	1931	LEU	C-N-CA	8.46	128.39	119.85
1	E	1226	PHE	N-CA-C	8.44	121.42	111.71
1	E	4154	VAL	CA-C-N	8.38	128.31	119.85
1	E	4154	VAL	C-N-CA	8.38	128.31	119.85
1	G	1226	PHE	N-CA-C	8.32	121.27	111.71
1	C	1226	PHE	N-CA-C	8.30	121.25	111.71
1	A	1226	PHE	N-CA-C	8.28	121.23	111.71
1	C	4154	VAL	CA-C-N	8.20	128.13	119.85
1	C	4154	VAL	C-N-CA	8.20	128.13	119.85
1	G	3301	PRO	N-CA-CB	8.18	111.01	103.08
1	C	1285	GLU	N-CA-C	8.18	120.95	108.52
1	A	4154	VAL	CA-C-N	8.09	128.02	119.85
1	A	4154	VAL	C-N-CA	8.09	128.02	119.85
1	C	2616	PRO	N-CA-CB	7.97	112.00	103.39
1	G	2616	PRO	N-CA-CB	7.97	112.00	103.39
1	E	2616	PRO	N-CA-CB	7.91	111.93	103.39
1	G	571	SER	CA-C-N	7.85	127.92	119.28
1	G	571	SER	C-N-CA	7.85	127.92	119.28
1	A	571	SER	CA-C-N	7.82	127.89	119.28
1	A	571	SER	C-N-CA	7.82	127.89	119.28
1	C	571	SER	CA-C-N	7.82	127.89	119.28
1	C	571	SER	C-N-CA	7.82	127.89	119.28
1	E	571	SER	CA-C-N	7.80	127.87	119.28
1	E	571	SER	C-N-CA	7.80	127.87	119.28
1	C	3301	PRO	N-CA-CB	7.79	110.64	103.08
1	A	2616	PRO	N-CA-CB	7.78	111.80	103.39
1	E	3301	PRO	N-CA-CB	7.76	110.61	103.08
1	A	3301	PRO	N-CA-CB	7.73	110.57	103.08
1	A	1285	GLU	N-CA-C	7.72	120.95	108.76
1	E	1285	GLU	N-CA-C	7.71	120.94	108.76
1	G	1285	GLU	N-CA-C	7.69	120.91	108.76
1	E	2711	PRO	N-CA-CB	7.66	110.51	103.08
1	C	2711	PRO	N-CA-CB	7.65	110.50	103.08
1	C	3302	PRO	N-CA-CB	7.64	110.49	103.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2711	PRO	N-CA-CB	7.64	110.49	103.08
1	A	3302	PRO	N-CA-CB	7.63	110.48	103.08
1	E	3302	PRO	N-CA-CB	7.62	110.47	103.08
1	G	2711	PRO	N-CA-CB	7.59	110.44	103.08
1	E	3138	PRO	N-CA-CB	7.54	111.53	103.39
1	A	3138	PRO	N-CA-CB	7.47	111.46	103.39
1	A	3360	PRO	N-CA-CB	7.47	111.54	103.33
1	E	3567	PRO	N-CA-CB	7.46	111.43	103.52
1	C	3360	PRO	N-CA-CB	7.46	111.53	103.33
1	A	3567	PRO	N-CA-CB	7.44	111.41	103.52
1	C	3567	PRO	N-CA-CB	7.43	111.40	103.52
1	C	3138	PRO	N-CA-CB	7.43	111.50	103.33
1	E	3360	PRO	N-CA-CB	7.42	111.49	103.33
1	E	3527	PRO	N-CA-CB	7.39	111.13	103.00
1	C	2925	GLU	N-CA-C	-7.39	96.22	110.56
1	A	3527	PRO	N-CA-CB	7.38	111.12	103.00
1	C	3527	PRO	N-CA-CB	7.38	111.11	103.00
1	G	3351	PRO	N-CA-CB	7.32	111.28	103.52
1	G	3360	PRO	N-CA-CB	7.26	111.32	103.33
1	A	3351	PRO	N-CA-CB	7.25	111.21	103.52
1	E	3351	PRO	N-CA-CB	7.24	111.19	103.52
1	C	3351	PRO	N-CA-CB	7.23	111.18	103.52
1	E	2160	GLY	N-CA-C	-7.21	105.88	115.32
1	G	3302	PRO	N-CA-CB	7.20	110.06	103.08
1	G	3289	PRO	N-CA-CB	7.17	111.14	103.39
1	G	3297	PRO	N-CA-CB	7.16	111.12	103.39
1	G	3527	PRO	N-CA-CB	7.16	110.88	103.00
1	G	3567	PRO	N-CA-CB	7.13	111.09	103.39
1	E	3275	PRO	N-CA-CB	7.12	111.08	103.39
1	G	3303	PRO	N-CA-CB	7.12	111.16	103.33
1	A	2160	GLY	N-CA-C	-7.11	106.00	115.32
1	A	3275	PRO	N-CA-CB	7.11	111.07	103.39
1	G	2281	ILE	N-CA-C	7.10	117.61	110.23
1	C	2160	GLY	N-CA-C	-7.09	106.03	115.32
1	E	2281	ILE	N-CA-C	7.09	117.61	110.23
1	C	2640	PRO	N-CA-CB	7.08	111.02	103.52
1	G	4177	TYR	N-CA-C	7.08	121.19	111.71
1	G	2160	GLY	N-CA-C	-7.07	106.05	115.32
1	E	2640	PRO	N-CA-CB	7.07	111.02	103.52
1	C	2281	ILE	N-CA-C	7.06	117.57	110.23
1	C	3275	PRO	N-CA-CB	7.06	111.02	103.39
1	G	1022	VAL	CA-C-N	7.06	126.98	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1022	VAL	C-N-CA	7.06	126.98	119.85
1	A	2640	PRO	N-CA-CB	7.06	111.00	103.52
1	A	3297	PRO	N-CA-CB	7.05	111.08	103.33
1	E	3297	PRO	N-CA-CB	7.03	111.06	103.33
1	A	2281	ILE	N-CA-C	7.02	117.53	110.23
1	E	3303	PRO	N-CA-CB	7.01	111.05	103.33
1	G	2640	PRO	N-CA-CB	7.01	110.95	103.52
1	G	3138	PRO	N-CA-CB	7.00	110.95	103.39
1	C	2658	PRO	N-CA-CB	7.00	110.94	103.52
1	G	2658	PRO	N-CA-CB	7.00	110.94	103.52
1	C	3297	PRO	N-CA-CB	6.99	111.02	103.33
1	E	3289	PRO	N-CA-CB	6.98	110.93	103.39
1	E	2658	PRO	N-CA-CB	6.98	110.92	103.52
1	A	3303	PRO	N-CA-CB	6.98	111.01	103.33
1	G	2631	PRO	N-CA-CB	6.98	111.01	103.33
1	A	2658	PRO	N-CA-CB	6.97	110.91	103.52
1	C	3289	PRO	N-CA-CB	6.97	110.92	103.39
1	C	3303	PRO	N-CA-CB	6.97	110.99	103.33
1	A	3289	PRO	N-CA-CB	6.96	110.91	103.39
1	A	2631	PRO	N-CA-CB	6.96	110.98	103.33
1	E	2631	PRO	N-CA-CB	6.95	110.97	103.33
1	C	3021	PRO	N-CA-CB	6.94	110.96	103.33
1	E	2858	GLN	CA-C-N	6.93	124.65	119.66
1	E	2858	GLN	C-N-CA	6.93	124.65	119.66
1	A	3021	PRO	N-CA-CB	6.93	110.95	103.33
1	C	2631	PRO	N-CA-CB	6.93	110.95	103.33
1	G	3282	PRO	N-CA-CB	6.91	110.84	103.52
1	E	3021	PRO	N-CA-CB	6.91	110.93	103.33
1	C	3427	PRO	N-CA-CB	6.89	110.58	103.00
1	E	3427	PRO	N-CA-CB	6.87	110.56	103.00
1	G	3021	PRO	N-CA-CB	6.87	110.81	103.39
1	A	1022	VAL	CA-C-N	6.87	126.79	119.85
1	A	1022	VAL	C-N-CA	6.87	126.79	119.85
1	A	3427	PRO	N-CA-CB	6.84	110.53	103.00
1	G	3188	PRO	N-CA-CB	6.83	110.76	103.52
1	E	1022	VAL	CA-C-N	6.83	126.74	119.85
1	E	1022	VAL	C-N-CA	6.83	126.74	119.85
1	C	1022	VAL	CA-C-N	6.80	126.72	119.85
1	C	1022	VAL	C-N-CA	6.80	126.72	119.85
1	C	3519	PRO	N-CA-CB	6.80	110.73	103.52
1	E	3519	PRO	N-CA-CB	6.79	110.72	103.52
1	C	3282	PRO	N-CA-CB	6.79	110.72	103.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2701	PRO	N-CA-CB	6.78	111.04	103.44
1	E	2701	PRO	N-CA-CB	6.77	111.03	103.44
1	E	3188	PRO	N-CA-CB	6.77	110.69	103.52
1	A	3282	PRO	N-CA-CB	6.76	110.69	103.39
1	C	2858	GLN	CA-C-N	6.76	124.59	119.66
1	C	2858	GLN	C-N-CA	6.76	124.59	119.66
1	A	2858	GLN	CA-C-N	6.76	124.59	119.66
1	A	2858	GLN	C-N-CA	6.76	124.59	119.66
1	A	3519	PRO	N-CA-CB	6.75	110.68	103.52
1	C	3188	PRO	N-CA-CB	6.75	110.67	103.52
1	A	718	GLY	N-CA-C	-6.75	105.92	115.30
1	A	2701	PRO	N-CA-CB	6.75	111.00	103.44
1	E	1736	VAL	CA-C-N	6.74	126.66	119.85
1	E	1736	VAL	C-N-CA	6.74	126.66	119.85
1	A	3188	PRO	N-CA-CB	6.73	110.66	103.52
1	E	3282	PRO	N-CA-CB	6.73	110.66	103.39
1	E	1495	VAL	N-CA-C	6.72	116.72	108.53
1	A	59	PRO	CA-C-N	6.71	126.62	119.85
1	A	59	PRO	C-N-CA	6.71	126.62	119.85
1	C	1495	VAL	N-CA-C	6.70	116.70	108.53
1	A	1495	VAL	N-CA-C	6.70	116.70	108.53
1	C	718	GLY	N-CA-C	-6.69	106.00	115.30
1	E	718	GLY	N-CA-C	-6.69	106.01	115.30
1	G	1495	VAL	N-CA-C	6.67	116.66	108.53
1	G	59	PRO	CA-C-N	6.65	126.57	119.85
1	G	59	PRO	C-N-CA	6.65	126.57	119.85
1	E	3903	LEU	CD1-CG-CD2	-6.63	96.21	110.80
1	C	1601	MET	CA-C-N	6.62	126.58	119.76
1	C	1601	MET	C-N-CA	6.62	126.58	119.76
1	G	2701	PRO	N-CA-CB	6.61	110.84	103.44
1	C	59	PRO	CA-C-N	6.60	126.51	119.85
1	C	59	PRO	C-N-CA	6.60	126.51	119.85
1	A	3903	LEU	CD1-CG-CD2	-6.59	96.29	110.80
1	G	3275	PRO	N-CA-CB	6.59	110.51	103.39
1	G	718	GLY	N-CA-C	-6.58	106.16	115.30
1	G	3903	LEU	CD1-CG-CD2	-6.58	96.33	110.80
1	C	3903	LEU	CD1-CG-CD2	-6.57	96.35	110.80
1	A	1736	VAL	CA-C-N	6.55	126.46	119.85
1	A	1736	VAL	C-N-CA	6.55	126.46	119.85
1	G	1601	MET	CA-C-N	6.54	126.50	119.76
1	G	1601	MET	C-N-CA	6.54	126.50	119.76
1	E	59	PRO	CA-C-N	6.53	126.45	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	59	PRO	C-N-CA	6.53	126.45	119.85
1	G	1736	VAL	CA-C-N	6.53	126.45	119.85
1	G	1736	VAL	C-N-CA	6.53	126.45	119.85
1	C	1736	VAL	CA-C-N	6.53	126.44	119.85
1	C	1736	VAL	C-N-CA	6.53	126.44	119.85
1	A	863	LEU	CA-C-N	6.52	124.35	119.66
1	A	863	LEU	C-N-CA	6.52	124.35	119.66
1	G	3410	PRO	N-CA-CB	6.50	110.41	103.52
1	E	4177	TYR	N-CA-C	6.50	120.53	111.56
1	A	1601	MET	CA-C-N	6.49	126.45	119.76
1	A	1601	MET	C-N-CA	6.49	126.45	119.76
1	E	863	LEU	CA-C-N	6.49	124.33	119.66
1	E	863	LEU	C-N-CA	6.49	124.33	119.66
1	G	2858	GLN	CA-C-N	6.48	124.32	119.66
1	G	2858	GLN	C-N-CA	6.48	124.32	119.66
1	G	3062	PRO	N-CA-CB	6.47	110.11	103.00
1	C	863	LEU	CA-C-N	6.45	124.30	119.66
1	C	863	LEU	C-N-CA	6.45	124.30	119.66
1	E	1601	MET	CA-C-N	6.45	126.40	119.76
1	E	1601	MET	C-N-CA	6.45	126.40	119.76
1	C	3410	PRO	N-CA-CB	6.44	110.34	103.52
1	E	1249	PRO	CA-C-N	-6.43	113.14	119.76
1	E	1249	PRO	C-N-CA	-6.43	113.14	119.76
1	G	4711	PHE	CA-C-N	-6.41	113.26	121.91
1	G	4711	PHE	C-N-CA	-6.41	113.26	121.91
1	C	1249	PRO	CA-C-N	-6.41	113.16	119.76
1	C	1249	PRO	C-N-CA	-6.41	113.16	119.76
1	C	4711	PHE	CA-C-N	-6.41	113.26	121.91
1	C	4711	PHE	C-N-CA	-6.41	113.26	121.91
1	A	4711	PHE	CA-C-N	-6.40	113.27	121.91
1	A	4711	PHE	C-N-CA	-6.40	113.27	121.91
1	A	2527	LEU	CA-C-N	6.39	126.31	119.28
1	A	2527	LEU	C-N-CA	6.39	126.31	119.28
1	E	4711	PHE	CA-C-N	-6.39	113.29	121.91
1	E	4711	PHE	C-N-CA	-6.39	113.29	121.91
1	G	1249	PRO	CA-C-N	-6.38	113.18	119.76
1	G	1249	PRO	C-N-CA	-6.38	113.18	119.76
1	A	1249	PRO	CA-C-N	-6.37	113.20	119.76
1	A	1249	PRO	C-N-CA	-6.37	113.20	119.76
1	E	2924	GLN	N-CA-C	-6.36	104.27	111.14
1	G	863	LEU	CA-C-N	6.36	124.24	119.66
1	G	863	LEU	C-N-CA	6.36	124.24	119.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	2712	PRO	N-CA-CB	6.36	110.00	103.00
1	C	4177	TYR	N-CA-C	6.36	120.95	112.30
1	E	3410	PRO	N-CA-CB	6.36	110.26	103.52
1	A	3410	PRO	N-CA-CB	6.34	110.24	103.52
1	G	1248	VAL	CA-C-N	6.34	124.23	119.66
1	G	1248	VAL	C-N-CA	6.34	124.23	119.66
1	A	4177	TYR	N-CA-C	6.33	120.91	112.30
2	F	51	GLY	N-CA-C	-6.33	106.98	115.21
1	G	3427	PRO	N-CA-CB	6.30	109.93	103.00
2	H	51	GLY	N-CA-C	-6.30	107.02	115.21
1	G	3519	PRO	N-CA-CB	6.29	110.18	103.39
1	G	3208	PRO	N-CA-CB	6.28	110.18	103.52
1	E	1248	VAL	CA-C-N	6.28	124.18	119.66
1	E	1248	VAL	C-N-CA	6.28	124.18	119.66
1	G	803	LEU	CA-C-N	6.28	124.24	119.66
1	G	803	LEU	C-N-CA	6.28	124.24	119.66
1	E	3062	PRO	N-CA-CB	6.27	109.89	103.00
2	B	51	GLY	N-CA-C	-6.27	107.06	115.21
1	A	2712	PRO	N-CA-CB	6.26	109.89	103.00
1	E	2712	PRO	N-CA-CB	6.26	109.89	103.00
1	A	3062	PRO	N-CA-CB	6.26	109.88	103.00
2	D	51	GLY	N-CA-C	-6.25	107.09	115.21
1	C	3294	PRO	N-CA-CB	6.24	109.87	103.00
1	E	803	LEU	CA-C-N	6.24	124.21	119.66
1	E	803	LEU	C-N-CA	6.24	124.21	119.66
1	E	3294	PRO	N-CA-CB	6.24	109.86	103.00
1	C	3085	PRO	N-CA-CB	6.24	110.13	103.52
1	A	3294	PRO	N-CA-CB	6.23	109.86	103.00
1	C	2712	PRO	N-CA-CB	6.23	109.86	103.00
1	C	3208	PRO	N-CA-CB	6.23	110.12	103.52
1	G	3294	PRO	N-CA-CB	6.23	109.85	103.00
1	A	3085	PRO	N-CA-CB	6.22	110.12	103.52
1	A	3208	PRO	N-CA-CB	6.22	110.11	103.52
1	E	3208	PRO	N-CA-CB	6.22	110.11	103.52
1	G	4669	VAL	CB-CA-C	-6.20	103.93	112.24
1	E	3085	PRO	N-CA-CB	6.20	110.09	103.52
1	C	803	LEU	CA-C-N	6.18	124.17	119.66
1	C	803	LEU	C-N-CA	6.18	124.17	119.66
1	E	2527	LEU	CA-C-N	6.18	126.07	119.28
1	E	2527	LEU	C-N-CA	6.18	126.07	119.28
1	A	1248	VAL	CA-C-N	6.17	124.11	119.66
1	A	1248	VAL	C-N-CA	6.17	124.11	119.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	3062	PRO	N-CA-CB	6.17	109.79	103.00
1	E	4064	MET	CG-SD-CE	6.13	114.39	100.90
1	A	4064	MET	CG-SD-CE	6.12	114.38	100.90
1	G	3085	PRO	N-CA-CB	6.12	110.01	103.52
1	G	2527	LEU	CA-C-N	6.11	126.00	119.28
1	G	2527	LEU	C-N-CA	6.11	126.00	119.28
1	C	4064	MET	CG-SD-CE	6.11	114.34	100.90
1	A	803	LEU	CA-C-N	6.10	124.11	119.66
1	A	803	LEU	C-N-CA	6.10	124.11	119.66
1	C	2527	LEU	CA-C-N	6.09	125.98	119.28
1	C	2527	LEU	C-N-CA	6.09	125.98	119.28
1	C	1248	VAL	CA-C-N	6.08	124.04	119.66
1	C	1248	VAL	C-N-CA	6.08	124.04	119.66
1	G	3664	THR	N-CA-C	6.08	116.46	108.07
1	A	288	GLY	N-CA-C	-6.07	107.28	115.36
1	E	3664	THR	N-CA-C	6.07	116.45	108.07
1	A	1493	TYR	N-CA-CB	6.06	120.81	110.50
1	C	288	GLY	N-CA-C	-6.06	107.30	115.36
1	C	3664	THR	N-CA-C	6.06	116.43	108.07
1	E	1493	TYR	N-CA-CB	6.05	120.79	110.50
1	E	288	GLY	N-CA-C	-6.05	107.31	115.36
1	A	3664	THR	N-CA-C	6.04	116.40	108.07
1	G	288	GLY	N-CA-C	-6.03	107.34	115.36
1	C	4931	ILE	CG1-CB-CG2	-6.02	92.64	110.70
1	E	4931	ILE	CG1-CB-CG2	-6.01	92.68	110.70
1	A	402	ARG	N-CA-C	-5.96	104.86	111.71
1	C	3839	CYS	CB-CA-C	-5.95	108.71	115.79
1	E	3839	CYS	CB-CA-C	-5.93	108.73	115.79
1	A	3839	CYS	CB-CA-C	-5.89	108.78	115.79
1	C	402	ARG	N-CA-C	-5.88	104.95	111.71
1	G	1293	LEU	CA-C-N	5.86	127.17	119.84
1	G	1293	LEU	C-N-CA	5.86	127.17	119.84
1	G	402	ARG	N-CA-C	-5.86	104.97	111.71
1	C	1493	TYR	N-CA-CB	5.86	120.46	110.50
1	A	2567	PRO	N-CA-CB	5.86	109.44	103.00
1	C	4105	GLY	O-C-N	5.86	123.18	121.07
1	C	1293	LEU	CA-C-N	5.85	127.15	119.84
1	C	1293	LEU	C-N-CA	5.85	127.15	119.84
1	G	1493	TYR	N-CA-CB	5.85	120.44	110.50
1	G	2567	PRO	N-CA-CB	5.84	109.43	103.00
1	E	402	ARG	N-CA-C	-5.84	105.00	111.71
1	G	1675	ALA	N-CA-C	5.82	119.59	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2567	PRO	N-CA-CB	5.81	109.39	103.00
1	E	2567	PRO	N-CA-CB	5.81	109.39	103.00
1	C	1675	ALA	N-CA-C	5.81	119.58	111.74
1	E	1675	ALA	N-CA-C	5.81	119.58	111.74
1	G	785	ALA	CB-CA-C	-5.80	109.35	117.23
1	C	4669	VAL	CB-CA-C	-5.78	104.45	112.02
1	E	4105	GLY	O-C-N	5.78	123.15	121.07
1	A	1675	ALA	N-CA-C	5.78	119.54	111.74
1	A	4105	GLY	O-C-N	5.76	123.14	121.07
1	A	1293	LEU	CA-C-N	5.75	127.03	119.84
1	A	1293	LEU	C-N-CA	5.75	127.03	119.84
1	E	2473	PRO	N-CA-CB	5.73	109.64	103.33
1	A	2473	PRO	N-CA-CB	5.73	109.63	103.33
1	C	2473	PRO	N-CA-CB	5.73	109.64	103.33
1	G	2473	PRO	N-CA-CB	5.72	109.63	103.33
1	E	4669	VAL	CB-CA-C	-5.71	104.53	112.02
1	G	1832	GLY	N-CA-C	-5.71	107.44	115.32
1	E	1293	LEU	CA-C-N	5.70	126.97	119.84
1	E	1293	LEU	C-N-CA	5.70	126.97	119.84
1	A	4669	VAL	CB-CA-C	-5.68	104.57	112.02
1	G	648	ILE	N-CA-C	5.67	114.99	106.42
1	E	1832	GLY	N-CA-C	-5.67	107.50	115.32
1	C	648	ILE	N-CA-C	5.67	114.98	106.42
1	A	648	ILE	N-CA-C	5.66	114.96	106.42
1	A	1832	GLY	N-CA-C	-5.65	107.52	115.32
1	E	4157	ASP	CA-C-N	5.64	125.49	119.28
1	E	4157	ASP	C-N-CA	5.64	125.49	119.28
1	C	1832	GLY	N-CA-C	-5.64	107.53	115.32
1	E	648	ILE	N-CA-C	5.63	114.92	106.42
1	A	66	CYS	CA-CB-SG	5.62	127.33	114.40
1	E	2130	GLY	N-CA-C	-5.61	107.37	114.16
1	A	2130	GLY	N-CA-C	-5.58	107.40	114.16
1	C	4157	ASP	CA-C-N	5.58	125.42	119.28
1	C	4157	ASP	C-N-CA	5.58	125.42	119.28
1	C	1591	CYS	CA-C-N	-5.57	115.59	119.66
1	C	1591	CYS	C-N-CA	-5.57	115.59	119.66
1	E	3844	LEU	N-CA-C	5.57	117.35	111.28
1	C	2130	GLY	N-CA-C	-5.57	107.42	114.16
1	G	4580	TYR	N-CA-C	5.55	117.90	110.35
1	E	4580	TYR	N-CA-C	5.54	117.88	110.35
1	C	3844	LEU	N-CA-C	5.54	117.31	111.28
1	A	4157	ASP	CA-C-N	5.53	125.36	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4157	ASP	C-N-CA	5.53	125.36	119.28
1	G	4865	LYS	N-CA-C	-5.52	106.43	112.72
1	A	3844	LEU	N-CA-C	5.51	117.29	111.28
1	A	706	GLY	N-CA-C	-5.51	108.04	115.36
1	A	1733	GLU	N-CA-C	5.50	118.20	111.82
1	G	713	SER	N-CA-C	5.50	117.21	108.79
1	C	2924	GLN	CA-C-N	5.49	129.34	121.71
1	C	2924	GLN	C-N-CA	5.49	129.34	121.71
1	G	706	GLY	N-CA-C	-5.49	108.06	115.36
1	E	706	GLY	N-CA-C	-5.48	108.07	115.36
1	A	4865	LYS	N-CA-C	-5.48	106.47	112.72
1	E	4868	ASP	N-CA-C	5.47	126.32	111.00
1	G	2116	LEU	N-CA-C	-5.47	105.22	111.07
1	E	713	SER	N-CA-C	5.47	117.15	108.79
1	C	713	SER	N-CA-C	5.46	117.15	108.79
1	C	706	GLY	N-CA-C	-5.46	108.10	115.36
1	E	1733	GLU	N-CA-C	5.46	118.15	111.82
1	C	1733	GLU	N-CA-C	5.46	118.15	111.82
1	E	2116	LEU	N-CA-C	-5.46	105.02	110.97
1	E	4865	LYS	N-CA-C	-5.46	106.50	112.72
1	A	4868	ASP	N-CA-C	5.45	126.25	111.00
1	C	4903	ASP	CA-C-N	5.45	125.21	119.76
1	C	4903	ASP	C-N-CA	5.45	125.21	119.76
1	A	4580	TYR	N-CA-C	5.44	117.75	110.35
1	A	713	SER	N-CA-C	5.44	117.12	108.79
1	C	4865	LYS	N-CA-C	-5.44	106.52	112.72
1	G	4868	ASP	N-CA-C	5.44	126.23	111.00
1	C	4580	TYR	N-CA-C	5.44	117.75	110.35
1	G	2130	GLY	N-CA-C	-5.42	107.59	114.16
1	G	1733	GLU	N-CA-C	5.42	118.11	111.82
1	C	4868	ASP	N-CA-C	5.42	126.17	111.00
1	E	4190	ILE	N-CA-C	5.42	114.60	106.42
1	E	4903	ASP	CA-C-N	5.42	125.32	119.85
1	E	4903	ASP	C-N-CA	5.42	125.32	119.85
1	A	4903	ASP	CA-C-N	5.41	125.32	119.85
1	A	4903	ASP	C-N-CA	5.41	125.32	119.85
1	A	2116	LEU	N-CA-C	-5.41	105.08	110.97
1	E	1481	GLY	N-CA-C	5.39	125.96	113.18
1	C	2116	LEU	N-CA-C	-5.39	105.30	111.07
1	C	1481	GLY	N-CA-C	5.39	125.94	113.18
1	G	4831	THR	N-CA-C	5.38	117.90	111.71
1	G	1481	GLY	N-CA-C	5.38	125.93	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	3844	LEU	N-CA-C	5.38	117.90	111.71
1	A	4190	ILE	N-CA-C	5.37	114.52	106.42
1	A	1481	GLY	N-CA-C	5.36	125.88	113.18
1	C	4190	ILE	N-CA-C	5.36	114.51	106.42
1	A	685	GLY	N-CA-C	5.35	118.20	111.09
1	E	1591	CYS	CA-C-N	-5.34	115.76	119.66
1	E	1591	CYS	C-N-CA	-5.34	115.76	119.66
1	G	2242	ILE	N-CA-C	5.34	117.76	111.09
1	G	4105	GLY	O-C-N	5.33	122.99	121.07
1	C	4910	GLU	N-CA-C	5.33	117.09	111.28
1	C	2242	ILE	N-CA-C	5.32	117.75	111.09
1	E	2242	ILE	N-CA-C	5.31	117.72	111.09
1	A	1465	ASP	N-CA-C	5.30	122.09	110.80
1	A	2242	ILE	N-CA-C	5.29	117.70	111.09
1	G	66	CYS	CA-CB-SG	5.28	126.55	114.40
1	E	1465	ASP	N-CA-C	5.28	122.05	110.80
1	E	4711	PHE	N-CA-C	5.28	121.48	109.81
1	G	2327	GLY	N-CA-C	-5.28	108.11	114.66
1	G	685	GLY	N-CA-C	5.27	118.11	111.09
1	C	4810	ALA	N-CA-C	5.27	118.80	112.38
1	A	2202	GLY	N-CA-C	-5.26	106.41	112.73
1	C	4711	PHE	N-CA-C	5.26	121.44	109.81
1	E	685	GLY	N-CA-C	5.26	118.09	111.09
1	E	2202	GLY	N-CA-C	-5.26	106.42	112.73
1	C	2202	GLY	N-CA-C	-5.25	106.43	112.73
1	C	685	GLY	N-CA-C	5.25	118.07	111.09
1	G	1465	ASP	N-CA-C	5.25	121.98	110.80
1	G	852	VAL	CA-C-N	5.25	125.18	119.78
1	G	852	VAL	C-N-CA	5.25	125.18	119.78
1	E	4910	GLU	N-CA-C	5.24	117.00	111.28
1	E	4928	LEU	N-CA-C	5.24	116.99	111.28
1	G	1591	CYS	CA-C-N	-5.24	115.83	119.66
1	G	1591	CYS	C-N-CA	-5.24	115.83	119.66
1	A	4711	PHE	N-CA-C	5.24	121.39	109.81
1	E	852	VAL	CA-C-N	5.24	125.17	119.78
1	E	852	VAL	C-N-CA	5.24	125.17	119.78
1	C	1465	ASP	N-CA-C	5.23	121.94	110.80
1	E	4810	ALA	N-CA-C	5.23	118.76	112.38
1	A	3670	GLU	N-CA-C	5.23	117.72	111.71
1	A	1591	CYS	CA-C-N	-5.22	115.85	119.66
1	A	1591	CYS	C-N-CA	-5.22	115.85	119.66
1	C	852	VAL	CA-C-N	5.22	125.16	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	852	VAL	C-N-CA	5.22	125.16	119.78
1	C	2922	LYS	N-CA-C	-5.22	106.17	112.54
1	A	2327	GLY	N-CA-C	-5.22	108.19	114.66
1	A	852	VAL	CA-C-N	5.21	125.15	119.78
1	A	852	VAL	C-N-CA	5.21	125.15	119.78
1	A	4910	GLU	N-CA-C	5.21	116.96	111.28
1	E	230	CYS	N-CA-C	5.19	116.18	108.60
1	G	2202	GLY	N-CA-C	-5.18	106.52	112.73
1	A	1966	VAL	N-CA-C	5.18	115.32	110.30
1	E	2327	GLY	N-CA-C	-5.17	108.25	114.66
1	G	4808	PHE	CA-CB-CG	-5.17	108.63	113.80
1	C	1494	MET	N-CA-C	5.16	117.57	110.35
1	A	1226	PHE	N-CA-CB	-5.15	102.28	110.22
1	E	1494	MET	N-CA-C	5.14	117.55	110.35
1	G	635	THR	N-CA-C	5.14	117.06	108.99
1	A	1494	MET	N-CA-C	5.14	117.55	110.35
1	C	1966	VAL	N-CA-C	5.14	115.28	110.30
1	E	1966	VAL	N-CA-C	5.14	115.28	110.30
1	C	2327	GLY	N-CA-C	-5.13	108.29	114.66
1	E	635	THR	N-CA-C	5.13	117.05	108.99
1	G	1494	MET	N-CA-C	5.13	117.54	110.35
1	A	4810	ALA	N-CA-C	5.13	118.64	112.38
1	A	635	THR	N-CA-C	5.13	117.04	108.99
1	C	635	THR	N-CA-C	5.12	117.03	108.99
1	A	230	CYS	N-CA-C	5.12	116.07	108.60
1	E	3670	GLU	N-CA-C	5.11	117.59	111.71
1	G	232	THR	N-CA-C	5.11	115.28	108.38
1	A	4928	LEU	N-CA-C	5.11	116.85	111.28
1	G	4931	ILE	CG1-CB-CG2	-5.10	95.39	110.70
1	C	904	HIS	CA-C-N	5.10	124.89	119.28
1	C	904	HIS	C-N-CA	5.10	124.89	119.28
1	G	230	CYS	N-CA-C	5.10	116.05	108.60
1	G	4123	ILE	N-CA-C	5.10	115.61	108.17
1	C	232	THR	N-CA-C	5.09	115.26	108.38
1	C	3670	GLU	N-CA-C	5.09	117.57	111.71
1	C	230	CYS	N-CA-C	5.09	116.03	108.60
1	E	265	LEU	N-CA-C	5.09	117.25	109.62
1	G	4711	PHE	N-CA-C	5.08	121.05	109.81
1	E	232	THR	N-CA-C	5.08	115.24	108.38
1	A	232	THR	N-CA-C	5.08	115.23	108.38
1	A	265	LEU	N-CA-C	5.07	117.23	109.62
1	A	2559	LEU	N-CA-C	5.07	119.65	112.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	2559	LEU	N-CA-C	5.07	119.65	112.75
1	G	265	LEU	N-CA-C	5.06	117.21	109.62
1	A	4931	ILE	CG1-CB-CG2	-5.06	95.52	110.70
1	C	66	CYS	CA-CB-SG	5.05	126.02	114.40
1	C	4190	ILE	CB-CA-C	-5.05	106.13	111.23
1	C	2559	LEU	N-CA-C	5.04	119.61	112.75
1	E	2559	LEU	N-CA-C	5.04	119.61	112.75
1	C	265	LEU	N-CA-C	5.04	117.18	109.62
1	G	3847	PHE	N-CA-C	5.04	116.78	111.28
1	E	4190	ILE	CB-CA-C	-5.03	106.15	111.23
1	E	904	HIS	CA-C-N	5.01	124.79	119.28
1	E	904	HIS	C-N-CA	5.01	124.79	119.28
1	E	1226	PHE	N-CA-CB	-5.01	102.51	110.22
1	A	904	HIS	CA-C-N	5.00	124.78	119.28
1	A	904	HIS	C-N-CA	5.00	124.78	119.28

There are no chirality outliers.

All (76) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1252	HIS	Peptide
1	A	1253	PRO	Peptide
1	A	1464	PHE	Mainchain,Peptide
1	A	1480	GLN	Peptide
1	A	1588	ALA	Mainchain,Peptide
1	A	1783	VAL	Mainchain,Peptide
1	A	1828	ASP	Mainchain,Peptide
1	A	1867	GLU	Peptide
1	A	332	GLU	Mainchain,Peptide
1	A	4157	ASP	Peptide
1	A	4849	TYR	Sidechain
1	A	4867	GLU	Mainchain,Peptide
1	A	841	GLY	Peptide
1	C	1252	HIS	Peptide
1	C	1253	PRO	Peptide
1	C	1464	PHE	Mainchain,Peptide
1	C	1480	GLN	Peptide
1	C	1588	ALA	Mainchain,Peptide
1	C	1783	VAL	Mainchain,Peptide
1	C	1828	ASP	Mainchain,Peptide
1	C	1867	GLU	Peptide
1	C	332	GLU	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
1	C	4157	ASP	Peptide
1	C	4849	TYR	Sidechain
1	C	4867	GLU	Mainchain,Peptide
1	C	841	GLY	Peptide
1	E	1252	HIS	Peptide
1	E	1253	PRO	Peptide
1	E	1464	PHE	Mainchain,Peptide
1	E	1480	GLN	Peptide
1	E	1588	ALA	Mainchain,Peptide
1	E	1783	VAL	Mainchain,Peptide
1	E	1828	ASP	Mainchain,Peptide
1	E	1867	GLU	Peptide
1	E	332	GLU	Mainchain,Peptide
1	E	4157	ASP	Peptide
1	E	4849	TYR	Sidechain
1	E	4867	GLU	Mainchain,Peptide
1	E	841	GLY	Peptide
1	G	1252	HIS	Peptide
1	G	1253	PRO	Peptide
1	G	1464	PHE	Mainchain,Peptide
1	G	1480	GLN	Peptide
1	G	1588	ALA	Mainchain,Peptide
1	G	1783	VAL	Mainchain,Peptide
1	G	1828	ASP	Mainchain,Peptide
1	G	1867	GLU	Peptide
1	G	332	GLU	Mainchain,Peptide
1	G	4690	GLU	Peptide
1	G	4849	TYR	Sidechain
1	G	4867	GLU	Mainchain,Peptide
1	G	841	GLY	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	26917	0	24461	1126	0
1	C	26917	0	24461	1131	0
1	E	26917	0	24461	1137	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G	26917	0	24461	1133	0
2	B	832	0	831	40	0
2	D	832	0	831	39	0
2	F	832	0	831	38	0
2	H	832	0	831	37	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0
3	E	1	0	0	0	0
3	G	1	0	0	0	0
All	All	111000	0	101168	4524	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 21.

All (4524) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4826:ILE:CG2	1:G:4931:ILE:HD11	1.79	1.10
1:A:4879:MET:SD	1:G:4578:LEU:HA	1.92	1.10
1:A:4826:ILE:CG2	1:C:4931:ILE:HD11	1.86	1.05
1:E:4578:LEU:HA	1:G:4879:MET:SD	1.99	1.03
1:C:4826:ILE:CG2	1:E:4931:ILE:HD11	1.91	1.00
1:C:4578:LEU:HA	1:E:4879:MET:SD	2.02	0.98
1:A:4578:LEU:HA	1:C:4879:MET:SD	2.03	0.98
1:G:3936:TYR:O	1:G:3940:LYS:NZ	1.96	0.97
1:G:1585:LYS:NZ	1:G:1596:GLU:OE1	2.00	0.94
1:C:1585:LYS:NZ	1:C:1596:GLU:OE1	2.00	0.93
1:E:1585:LYS:NZ	1:E:1596:GLU:OE1	2.00	0.93
1:C:2924:GLN:O	1:C:2928:LYS:HB2	1.68	0.93
1:E:2865:VAL:O	1:E:2928:LYS:NZ	2.01	0.93
1:A:1585:LYS:NZ	1:A:1596:GLU:OE1	2.00	0.93
1:A:265:LEU:HD12	1:A:279:PRO:HB2	1.52	0.92
1:A:1206:GLN:H	1:A:1227:ALA:HB3	1.34	0.92
1:G:693:SER:OG	1:G:827:LYS:NZ	2.03	0.92
1:E:693:SER:OG	1:E:827:LYS:NZ	2.02	0.92
1:C:693:SER:OG	1:C:827:LYS:NZ	2.03	0.91
1:G:265:LEU:HD12	1:G:279:PRO:HB2	1.52	0.91
1:E:265:LEU:HD12	1:E:279:PRO:HB2	1.52	0.91
1:A:3936:TYR:O	1:A:3940:LYS:NZ	2.03	0.91
1:G:1027:LEU:O	1:G:1032:LYS:NZ	2.04	0.91
1:C:2865:VAL:O	1:C:2928:LYS:NZ	2.03	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3936:TYR:O	1:C:3940:LYS:NZ	2.04	0.90
1:E:3936:TYR:O	1:E:3940:LYS:NZ	2.04	0.90
1:A:693:SER:OG	1:A:827:LYS:NZ	2.03	0.90
1:C:265:LEU:HD12	1:C:279:PRO:HB2	1.52	0.90
1:A:1027:LEU:O	1:A:1032:LYS:NZ	2.04	0.90
1:E:4826:ILE:HG22	1:G:4931:ILE:HD11	1.54	0.90
1:A:2865:VAL:O	1:A:2928:LYS:NZ	2.03	0.89
1:C:552:ASP:O	1:C:1594:ARG:NH1	2.05	0.89
1:C:2924:GLN:O	1:C:2928:LYS:CB	2.20	0.89
1:E:552:ASP:O	1:E:1594:ARG:NH1	2.06	0.89
1:C:1027:LEU:O	1:C:1032:LYS:NZ	2.05	0.89
1:G:1206:GLN:H	1:G:1227:ALA:HB3	1.36	0.89
1:E:1027:LEU:O	1:E:1032:LYS:NZ	2.04	0.88
1:A:1708:ARG:NH1	1:A:1836:PHE:O	2.07	0.88
1:C:1206:GLN:H	1:C:1227:ALA:HB3	1.36	0.88
1:A:552:ASP:O	1:A:1594:ARG:NH1	2.06	0.88
1:E:1206:GLN:H	1:E:1227:ALA:HB3	1.36	0.88
1:C:4786:ASP:OD2	1:C:4789:PHE:N	2.07	0.88
1:E:4786:ASP:OD2	1:E:4789:PHE:N	2.07	0.88
1:A:4786:ASP:OD2	1:A:4789:PHE:N	2.07	0.88
1:G:552:ASP:O	1:G:1594:ARG:NH1	2.06	0.88
1:G:1708:ARG:NH1	1:G:1836:PHE:O	2.07	0.87
1:C:1708:ARG:NH1	1:C:1836:PHE:O	2.07	0.87
1:A:281:ARG:NH1	1:A:309:THR:OG1	2.07	0.87
1:E:1708:ARG:NH1	1:E:1836:PHE:O	2.06	0.87
1:G:281:ARG:NH1	1:G:309:THR:OG1	2.08	0.87
1:E:281:ARG:NH1	1:E:309:THR:OG1	2.08	0.87
1:C:4892:ARG:NH1	1:E:4895:GLY:O	2.08	0.86
1:E:1243:PRO:O	1:E:1458:HIS:ND1	2.07	0.86
1:C:281:ARG:NH1	1:C:309:THR:OG1	2.08	0.86
1:A:1259:ARG:HH12	1:A:1597:VAL:HA	1.41	0.86
1:A:4895:GLY:O	1:G:4892:ARG:NH1	2.09	0.86
1:G:2924:GLN:O	1:G:2928:LYS:HB2	1.76	0.85
1:E:2463:LEU:N	1:E:2510:TYR:HH	1.75	0.85
1:G:2463:LEU:N	1:G:2510:TYR:HH	1.75	0.84
1:E:1259:ARG:HH12	1:E:1597:VAL:HA	1.41	0.84
1:G:4786:ASP:OD2	1:G:4789:PHE:N	2.09	0.84
1:C:1259:ARG:HH12	1:C:1597:VAL:HA	1.41	0.84
1:A:2463:LEU:N	1:A:2510:TYR:HH	1.75	0.84
1:G:1259:ARG:HH12	1:G:1597:VAL:HA	1.42	0.84
1:A:2924:GLN:O	1:A:2928:LYS:N	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1291:LEU:HD23	1:G:1293:LEU:H	1.43	0.83
1:E:4578:LEU:O	1:G:4879:MET:HB3	1.78	0.83
1:C:1456:ASP:O	1:C:1458:HIS:CD2	2.31	0.83
1:A:4892:ARG:NH1	1:C:4895:GLY:O	2.11	0.83
1:A:1291:LEU:HD23	1:A:1293:LEU:H	1.43	0.83
1:G:5017:ARG:HH11	1:G:5019:TRP:HH2	1.25	0.83
1:E:1291:LEU:HD23	1:E:1293:LEU:H	1.44	0.83
1:E:61:ASP:OD2	1:E:402:ARG:NH2	2.12	0.83
1:A:1727:ARG:HH12	1:A:1775:HIS:HD2	1.26	0.83
1:G:61:ASP:OD2	1:G:402:ARG:NH2	2.12	0.83
1:G:4984:ASN:O	1:G:4986:ALA:N	2.11	0.82
1:A:61:ASP:OD2	1:A:402:ARG:NH2	2.11	0.82
1:C:61:ASP:OD2	1:C:402:ARG:NH2	2.12	0.82
1:C:1291:LEU:HD23	1:C:1293:LEU:H	1.43	0.82
1:E:1727:ARG:HH12	1:E:1775:HIS:HD2	1.26	0.81
1:G:111:HIS:HD2	1:G:114:SER:H	1.28	0.81
1:C:706:GLY:HA2	1:C:711:LEU:HD22	1.62	0.81
1:A:111:HIS:HD2	1:A:114:SER:H	1.28	0.81
1:E:4892:ARG:HH12	1:G:4899:ASP:N	1.78	0.81
1:G:4708:THR:HG21	1:G:4775:TYR:HB2	1.60	0.81
1:A:1555:LEU:HD12	1:A:1556:PRO:HD2	1.63	0.81
1:A:4899:ASP:N	1:G:4892:ARG:HH12	1.78	0.81
1:C:4892:ARG:HH12	1:E:4899:ASP:N	1.79	0.81
1:C:622:THR:HG23	1:C:626:LEU:HD12	1.63	0.80
1:G:2865:VAL:O	1:G:2928:LYS:NZ	2.12	0.80
1:G:4180:ARG:NH1	1:G:4981:GLU:OE1	2.15	0.80
1:A:622:THR:HG23	1:A:626:LEU:HD12	1.63	0.80
1:A:706:GLY:HA2	1:A:711:LEU:HD22	1.62	0.80
1:E:706:GLY:HA2	1:E:711:LEU:HD22	1.62	0.80
1:G:2924:GLN:O	1:G:2928:LYS:CB	2.29	0.80
1:C:4708:THR:HG21	1:C:4775:TYR:HB2	1.64	0.80
1:E:1555:LEU:HD12	1:E:1556:PRO:HD2	1.63	0.80
1:C:111:HIS:HD2	1:C:114:SER:H	1.27	0.79
1:A:1435:TYR:H	1:A:1516:ILE:CG1	1.93	0.79
1:C:1727:ARG:HH12	1:C:1775:HIS:HD2	1.26	0.79
1:C:1936:LYS:HZ2	1:C:2105:TRP:CG	2.00	0.79
1:G:1727:ARG:HH12	1:G:1775:HIS:HD2	1.26	0.79
1:G:1936:LYS:HZ2	1:G:2105:TRP:CG	2.00	0.79
1:G:706:GLY:HA2	1:G:711:LEU:HD22	1.62	0.79
1:A:1936:LYS:HZ2	1:A:2105:TRP:CG	1.99	0.79
1:A:4879:MET:HB3	1:G:4578:LEU:O	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1555:LEU:HD12	1:C:1556:PRO:HD2	1.64	0.79
1:E:1936:LYS:HZ2	1:E:2105:TRP:CG	2.00	0.79
1:E:622:THR:HG23	1:E:626:LEU:HD12	1.63	0.79
1:A:4708:THR:HG21	1:A:4775:TYR:HB2	1.64	0.79
1:G:3927:GLN:HE21	1:G:3991:GLY:HA3	1.48	0.79
1:C:2463:LEU:N	1:C:2510:TYR:HH	1.81	0.79
1:G:622:THR:HG23	1:G:626:LEU:HD12	1.63	0.79
1:A:4892:ARG:HH12	1:C:4899:ASP:N	1.80	0.78
1:G:316:PHE:HB3	1:G:346:CYS:HB3	1.65	0.78
1:G:840:VAL:O	1:G:1073:ARG:NH1	2.17	0.78
1:G:1555:LEU:HD12	1:G:1556:PRO:HD2	1.65	0.78
1:G:1780:PRO:O	2:H:42:ARG:NH2	2.16	0.78
1:E:4892:ARG:NH1	1:G:4895:GLY:O	2.16	0.78
1:E:4578:LEU:O	1:G:4879:MET:HG2	1.83	0.78
1:A:316:PHE:HB3	1:A:346:CYS:HB3	1.65	0.78
1:E:111:HIS:HD2	1:E:114:SER:H	1.28	0.78
1:A:5017:ARG:HH11	1:A:5019:TRP:HH2	1.32	0.78
1:C:584:LYS:HZ3	1:C:1586:ASN:HD21	1.32	0.78
1:E:479:GLN:NE2	1:E:536:ASN:OD1	2.13	0.78
1:A:840:VAL:O	1:A:1073:ARG:NH1	2.17	0.78
1:E:4708:THR:HG21	1:E:4775:TYR:HB2	1.64	0.78
1:G:580:GLU:HA	1:G:620:LEU:HD11	1.67	0.77
1:C:840:VAL:HG12	1:C:1199:VAL:HG13	1.67	0.77
1:E:840:VAL:O	1:E:1073:ARG:NH1	2.17	0.77
1:C:612:VAL:HA	1:C:2167:ILE:HG23	1.65	0.77
1:E:316:PHE:HB3	1:E:346:CYS:HB3	1.65	0.77
1:A:4578:LEU:O	1:C:4879:MET:HG2	1.85	0.77
1:E:3989:VAL:HG13	1:E:4023:MET:HE2	1.66	0.77
1:A:840:VAL:HG12	1:A:1199:VAL:HG13	1.67	0.77
1:A:4895:GLY:O	1:G:4892:ARG:CZ	2.33	0.77
1:A:4957:LYS:HA	1:A:4964:GLY:HA2	1.67	0.77
1:A:612:VAL:HA	1:A:2167:ILE:HG23	1.65	0.77
1:A:2625:ARG:HA	1:A:2910:THR:HG22	1.66	0.77
1:A:479:GLN:NE2	1:A:536:ASN:OD1	2.14	0.76
1:A:4931:ILE:HD11	1:G:4826:ILE:HG23	1.66	0.76
1:E:731:THR:OG1	1:E:765:GLN:NE2	2.19	0.76
1:G:607:CYS:O	1:G:618:GLN:NE2	2.19	0.76
1:G:731:THR:OG1	1:G:765:GLN:NE2	2.19	0.76
1:G:3889:GLN:HG3	1:G:3967:GLU:HG3	1.67	0.76
1:G:4957:LYS:HA	1:G:4964:GLY:HA2	1.66	0.76
1:C:3989:VAL:HG13	1:C:4023:MET:HE2	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3966:THR:O	1:G:3970:GLN:N	2.18	0.76
1:C:316:PHE:HB3	1:C:346:CYS:HB3	1.65	0.76
1:E:2625:ARG:HA	1:E:2910:THR:HG22	1.67	0.76
1:C:840:VAL:O	1:C:1073:ARG:NH1	2.17	0.76
1:C:1716:ILE:HD11	1:C:1844:LEU:HA	1.68	0.76
1:E:612:VAL:HA	1:E:2167:ILE:HG23	1.65	0.76
1:E:580:GLU:HA	1:E:620:LEU:HD11	1.67	0.76
1:A:180:LEU:O	1:A:200:TRP:NE1	2.18	0.76
1:C:4578:LEU:O	1:E:4879:MET:HG2	1.86	0.76
1:E:1637:MET:HG2	1:E:1650:ILE:HD12	1.68	0.76
1:C:4957:LYS:HA	1:C:4964:GLY:HA2	1.67	0.76
1:G:1808:ARG:NH2	1:G:1858:ASP:OD2	2.18	0.76
1:E:1716:ILE:HD11	1:E:1844:LEU:HA	1.68	0.76
1:G:612:VAL:HA	1:G:2167:ILE:HG23	1.66	0.76
1:A:1808:ARG:NH2	1:A:1858:ASP:OD2	2.18	0.76
1:A:3989:VAL:HG13	1:A:4023:MET:HE2	1.66	0.76
1:A:4826:ILE:HG22	1:C:4931:ILE:HD11	1.66	0.76
1:C:180:LEU:O	1:C:200:TRP:NE1	2.18	0.76
1:E:703:GLY:N	1:E:1647:CYS:SG	2.58	0.76
1:E:840:VAL:HG12	1:E:1199:VAL:HG13	1.67	0.76
1:G:4231:MET:HE1	1:G:4960:ILE:HA	1.68	0.76
1:C:607:CYS:O	1:C:618:GLN:NE2	2.19	0.75
1:C:640:TYR:HE1	1:C:1613:LEU:HD23	1.51	0.75
1:C:1637:MET:HG2	1:C:1650:ILE:HD12	1.68	0.75
1:C:1808:ARG:NH2	1:C:1858:ASP:OD2	2.18	0.75
1:C:5017:ARG:HH11	1:C:5019:TRP:HH2	1.32	0.75
1:G:1731:LEU:HA	1:G:1772:ARG:HE	1.52	0.75
1:A:1716:ILE:HD11	1:A:1844:LEU:HA	1.68	0.75
1:C:731:THR:OG1	1:C:765:GLN:NE2	2.19	0.75
1:A:580:GLU:HA	1:A:620:LEU:HD11	1.67	0.75
1:A:703:GLY:N	1:A:1647:CYS:SG	2.58	0.75
1:C:2625:ARG:HA	1:C:2910:THR:HG22	1.67	0.75
1:C:4041:ALA:HA	1:C:4044:MET:HE3	1.69	0.75
1:G:700:GLU:OE2	1:G:1458:HIS:NE2	2.19	0.75
1:G:2924:GLN:HB3	1:G:2928:LYS:HE2	1.68	0.75
1:G:1190:PRO:HG3	1:G:1226:PHE:HE2	1.51	0.75
1:G:1435:TYR:H	1:G:1516:ILE:CG1	1.99	0.75
1:G:1716:ILE:HD11	1:G:1844:LEU:HA	1.68	0.75
1:E:1808:ARG:NH2	1:E:1858:ASP:OD2	2.19	0.75
1:C:1190:PRO:HG3	1:C:1226:PHE:HE2	1.51	0.75
1:E:5017:ARG:HH11	1:E:5019:TRP:HH2	1.32	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1637:MET:HG2	1:G:1650:ILE:HD12	1.68	0.75
1:G:1805:GLU:OE2	1:G:1808:ARG:NH1	2.20	0.75
1:A:731:THR:OG1	1:A:765:GLN:NE2	2.19	0.75
1:A:1731:LEU:HA	1:A:1772:ARG:HE	1.52	0.75
1:A:4041:ALA:HA	1:A:4044:MET:HE3	1.68	0.75
1:E:1190:PRO:HG3	1:E:1226:PHE:HE2	1.51	0.75
1:E:1731:LEU:HA	1:E:1772:ARG:HE	1.52	0.75
1:A:2452:ARG:NH2	1:C:177:GLU:HG3	2.02	0.75
1:C:2922:LYS:HA	1:C:2925:GLU:OE1	1.86	0.75
1:E:4041:ALA:HA	1:E:4044:MET:HE3	1.69	0.75
1:G:840:VAL:HG12	1:G:1199:VAL:HG13	1.67	0.75
1:E:640:TYR:HE1	1:E:1613:LEU:HD23	1.52	0.75
1:A:584:LYS:HZ3	1:A:1586:ASN:HD21	1.34	0.74
1:C:1805:GLU:OE2	1:C:1808:ARG:NH1	2.20	0.74
1:E:1805:GLU:OE2	1:E:1808:ARG:NH1	2.20	0.74
1:A:607:CYS:O	1:A:618:GLN:NE2	2.19	0.74
1:C:2771:ILE:HG23	1:C:2852:ARG:HB2	1.70	0.74
1:C:703:GLY:N	1:C:1647:CYS:SG	2.59	0.74
1:A:1805:GLU:OE2	1:A:1808:ARG:NH1	2.20	0.74
1:C:479:GLN:NE2	1:C:536:ASN:OD1	2.14	0.74
1:E:4957:LYS:HA	1:E:4964:GLY:HA2	1.68	0.74
1:A:640:TYR:HE1	1:A:1613:LEU:HD23	1.52	0.74
1:A:717:ASP:O	1:A:720:HIS:NE2	2.21	0.74
1:A:3969:ILE:HD11	1:A:3980:LEU:HD13	1.70	0.74
1:C:580:GLU:HA	1:C:620:LEU:HD11	1.67	0.74
1:E:607:CYS:O	1:E:618:GLN:NE2	2.19	0.74
1:E:3969:ILE:HD11	1:E:3980:LEU:HD13	1.69	0.74
1:G:717:ASP:O	1:G:720:HIS:NE2	2.21	0.74
1:G:1641:ILE:HD12	1:G:1642:PRO:HD2	1.69	0.74
1:G:2159:LEU:HD11	1:G:2201:LEU:HD13	1.69	0.74
1:E:1582:SER:OG	1:E:1589:PRO:O	2.05	0.74
1:G:640:TYR:HE1	1:G:1613:LEU:HD23	1.51	0.74
1:C:1582:SER:OG	1:C:1589:PRO:O	2.04	0.74
1:C:3969:ILE:HD11	1:C:3980:LEU:HD13	1.70	0.74
1:C:2452:ARG:NH2	1:E:177:GLU:HG3	2.03	0.74
1:C:2497:ASP:OD1	1:C:2552:ARG:NE	2.21	0.74
1:E:180:LEU:O	1:E:200:TRP:NE1	2.18	0.74
1:A:1637:MET:HG2	1:A:1650:ILE:HD12	1.68	0.74
1:G:479:GLN:NE2	1:G:536:ASN:OD1	2.13	0.74
1:E:1780:PRO:O	2:F:42:ARG:NH2	2.21	0.73
1:G:15:ARG:NH1	1:G:100:THR:OG1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:180:LEU:O	1:G:200:TRP:NE1	2.18	0.73
1:A:2771:ILE:HG23	1:A:2852:ARG:HB2	1.70	0.73
1:E:2159:LEU:HD11	1:E:2201:LEU:HD13	1.69	0.73
1:G:2924:GLN:O	1:G:2928:LYS:CG	2.36	0.73
1:A:1436:SER:H	1:A:1516:ILE:CG1	2.00	0.73
1:C:717:ASP:O	1:C:720:HIS:NE2	2.20	0.73
1:E:717:ASP:O	1:E:720:HIS:NE2	2.21	0.73
1:E:2452:ARG:NH2	1:G:177:GLU:HG3	2.02	0.73
1:E:2497:ASP:OD1	1:E:2552:ARG:NE	2.21	0.73
1:E:2771:ILE:HG23	1:E:2852:ARG:HB2	1.70	0.73
1:A:195:PHE:CE2	1:G:2358:ILE:HG23	2.24	0.73
1:C:1780:PRO:O	2:D:42:ARG:NH2	2.22	0.73
1:A:2159:LEU:HD11	1:A:2201:LEU:HD13	1.69	0.73
1:C:1731:LEU:HA	1:C:1772:ARG:HE	1.52	0.73
1:G:1582:SER:OG	1:G:1589:PRO:O	2.04	0.73
1:G:2497:ASP:OD1	1:G:2552:ARG:NE	2.21	0.73
1:A:1780:PRO:O	2:B:42:ARG:NH2	2.22	0.73
1:C:2159:LEU:HD11	1:C:2201:LEU:HD13	1.69	0.73
1:C:2358:ILE:HG23	1:E:195:PHE:CE2	2.24	0.73
1:G:1456:ASP:O	1:G:1458:HIS:CD2	2.42	0.73
1:G:1948:ASP:OD1	1:G:2126:ARG:NH2	2.21	0.73
1:C:595:ARG:HH22	1:C:1641:ILE:HD11	1.54	0.73
1:G:2771:ILE:HG23	1:G:2852:ARG:HB2	1.70	0.73
1:C:1641:ILE:HD12	1:C:1642:PRO:HD2	1.69	0.72
1:C:2924:GLN:O	1:C:2928:LYS:CG	2.37	0.72
1:A:177:GLU:HG3	1:G:2452:ARG:NH2	2.04	0.72
1:E:595:ARG:HH22	1:E:1641:ILE:HD11	1.54	0.72
1:G:2827:ARG:HB2	1:G:2934:GLY:HA3	1.70	0.72
1:E:33:LEU:HD11	1:E:51:PRO:HB3	1.72	0.72
1:G:252:VAL:HG23	1:G:257:ARG:HG3	1.72	0.72
1:G:331:VAL:HG12	1:G:333:GLY:HA3	1.71	0.72
1:G:703:GLY:N	1:G:1647:CYS:SG	2.60	0.72
1:E:15:ARG:NH1	1:E:100:THR:OG1	2.21	0.72
1:E:1810:LYS:HA	1:E:1813:ARG:HH12	1.54	0.72
1:G:39:ALA:HB2	1:G:47:CYS:HA	1.71	0.72
1:G:1810:LYS:HA	1:G:1813:ARG:HH12	1.54	0.72
1:A:331:VAL:HG12	1:A:333:GLY:HA3	1.72	0.72
1:C:15:ARG:NH1	1:C:100:THR:OG1	2.21	0.72
1:E:613:ALA:HB1	1:E:618:GLN:HE22	1.55	0.72
1:E:2136:ARG:NH1	1:E:3720:TYR:OH	2.23	0.72
1:A:2358:ILE:HG23	1:C:195:PHE:CE2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:33:LEU:HD11	1:C:51:PRO:HB3	1.72	0.72
1:C:2921:GLU:O	1:C:2925:GLU:HB2	1.90	0.72
1:C:4826:ILE:HG22	1:E:4931:ILE:HD11	1.71	0.72
1:E:252:VAL:HG23	1:E:257:ARG:HG3	1.72	0.72
1:E:331:VAL:HG12	1:E:333:GLY:HA3	1.71	0.72
1:A:2136:ARG:NH1	1:A:3720:TYR:OH	2.23	0.72
1:C:331:VAL:HG12	1:C:333:GLY:HA3	1.72	0.72
1:E:28:VAL:HG21	1:E:189:LEU:HD11	1.72	0.72
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.71	0.72
1:G:613:ALA:HB1	1:G:618:GLN:HE22	1.55	0.72
1:A:1641:ILE:HD12	1:A:1642:PRO:HD2	1.71	0.72
1:A:2497:ASP:OD1	1:A:2552:ARG:NE	2.21	0.72
1:C:700:GLU:OE2	1:C:1458:HIS:NE2	2.20	0.72
1:G:595:ARG:HH22	1:G:1641:ILE:HD11	1.54	0.72
1:G:786:GLY:HA2	1:G:1631:GLN:HA	1.71	0.72
2:D:24:VAL:HG12	2:D:103:LEU:HA	1.71	0.72
1:A:1112:ASP:HA	1:A:1607:ARG:HB2	1.72	0.71
1:C:2136:ARG:NH1	1:C:3720:TYR:OH	2.23	0.71
1:G:4235:VAL:HG21	1:G:5019:TRP:NE1	2.04	0.71
1:A:1436:SER:H	1:A:1516:ILE:HA	1.54	0.71
2:B:24:VAL:HG12	2:B:103:LEU:HA	1.71	0.71
1:C:613:ALA:HB1	1:C:618:GLN:HE22	1.55	0.71
1:C:786:GLY:HA2	1:C:1631:GLN:HA	1.71	0.71
1:C:4892:ARG:CZ	1:E:4895:GLY:O	2.38	0.71
1:G:33:LEU:HD11	1:G:51:PRO:HB3	1.72	0.71
1:G:2625:ARG:HA	1:G:2910:THR:HG22	1.70	0.71
1:A:786:GLY:HA2	1:A:1631:GLN:HA	1.71	0.71
1:E:786:GLY:HA2	1:E:1631:GLN:HA	1.71	0.71
1:E:3839:CYS:SG	1:E:3840:SER:N	2.61	0.71
1:E:4892:ARG:O	1:G:4895:GLY:HA2	1.91	0.71
1:A:252:VAL:HG23	1:A:257:ARG:HG3	1.71	0.71
1:C:28:VAL:HG21	1:C:189:LEU:HD11	1.72	0.71
1:E:1641:ILE:HD12	1:E:1642:PRO:HD2	1.71	0.71
1:A:613:ALA:HB1	1:A:618:GLN:HE22	1.55	0.71
1:E:2358:ILE:HG23	1:G:195:PHE:CE2	2.25	0.71
1:A:1190:PRO:HG3	1:A:1226:PHE:HE2	1.54	0.71
1:A:2921:GLU:O	1:A:2925:GLU:HG3	1.91	0.71
1:C:1245:PHE:HB2	1:C:1602:PRO:HB2	1.73	0.71
1:E:349:GLN:HE21	1:E:354:GLY:HA2	1.56	0.71
1:A:33:LEU:HD11	1:A:51:PRO:HB3	1.72	0.71
1:A:1810:LYS:HA	1:A:1813:ARG:NH1	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4892:ARG:O	1:C:4895:GLY:HA2	1.91	0.71
1:E:717:ASP:OD2	1:E:737:LEU:HD12	1.91	0.71
1:E:2287:ALA:O	1:E:2349:ASN:ND2	2.24	0.71
1:G:349:GLN:HE21	1:G:354:GLY:HA2	1.56	0.71
1:A:15:ARG:NH1	1:A:100:THR:OG1	2.22	0.71
1:A:595:ARG:HH22	1:A:1641:ILE:HD11	1.55	0.71
1:C:39:ALA:HB2	1:C:47:CYS:HA	1.71	0.71
1:C:1810:LYS:HA	1:C:1813:ARG:NH1	2.06	0.71
1:C:1948:ASP:OD1	1:C:2126:ARG:NH2	2.24	0.71
1:E:39:ALA:HB2	1:E:47:CYS:HA	1.71	0.71
1:G:717:ASP:OD2	1:G:737:LEU:HD12	1.90	0.71
1:G:1245:PHE:HB2	1:G:1602:PRO:HB2	1.72	0.71
1:G:4817:ALA:HB1	1:G:4827:LEU:HD11	1.73	0.71
1:C:4180:ARG:NH1	1:C:4981:GLU:OE1	2.24	0.70
1:E:1245:PHE:HB2	1:E:1602:PRO:HB2	1.73	0.70
1:G:2924:GLN:O	1:G:2928:LYS:HG3	1.91	0.70
1:G:1112:ASP:HA	1:G:1607:ARG:HB2	1.72	0.70
1:A:1582:SER:OG	1:A:1589:PRO:O	2.05	0.70
1:C:252:VAL:HG23	1:C:257:ARG:HG3	1.72	0.70
1:C:1111:PRO:HG3	1:C:1609:PRO:HD3	1.73	0.70
1:C:4044:MET:HA	1:C:4047:MET:HG2	1.73	0.70
1:G:28:VAL:HG21	1:G:189:LEU:HD11	1.72	0.70
1:E:1029:GLU:HA	1:E:1032:LYS:HD3	1.73	0.70
1:A:39:ALA:HB2	1:A:47:CYS:HA	1.72	0.70
1:A:717:ASP:OD2	1:A:737:LEU:HD12	1.91	0.70
1:A:1810:LYS:HA	1:A:1813:ARG:HH12	1.54	0.70
1:A:2287:ALA:O	1:A:2349:ASN:ND2	2.24	0.70
1:E:1810:LYS:HA	1:E:1813:ARG:NH1	2.06	0.70
1:E:1948:ASP:OD1	1:E:2126:ARG:NH2	2.24	0.70
2:H:24:VAL:HG12	2:H:103:LEU:HA	1.73	0.70
1:A:1252:HIS:O	1:A:1255:TYR:N	2.24	0.70
1:C:717:ASP:OD2	1:C:737:LEU:HD12	1.91	0.70
1:E:1112:ASP:HA	1:E:1607:ARG:HB2	1.72	0.70
1:E:4044:MET:HA	1:E:4047:MET:HG2	1.73	0.70
1:E:4578:LEU:O	1:G:4879:MET:CG	2.39	0.70
1:G:2136:ARG:NH1	1:G:3720:TYR:OH	2.24	0.70
1:A:28:VAL:HG21	1:A:189:LEU:HD11	1.72	0.70
1:C:2287:ALA:O	1:C:2349:ASN:ND2	2.23	0.70
1:A:1436:SER:N	1:A:1516:ILE:CG1	2.54	0.70
1:C:584:LYS:NZ	1:C:1586:ASN:HD21	1.90	0.70
1:E:1703:LEU:HD12	1:E:1704:PRO:HD2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4892:ARG:NE	1:G:4917:ASP:OD2	2.25	0.70
1:G:1810:LYS:HA	1:G:1813:ARG:NH1	2.06	0.70
1:A:349:GLN:HE21	1:A:354:GLY:HA2	1.56	0.70
1:A:4865:LYS:N	1:A:4873:ASP:OD2	2.25	0.70
1:C:349:GLN:HE21	1:C:354:GLY:HA2	1.56	0.70
1:C:1112:ASP:HA	1:C:1607:ARG:HB2	1.72	0.70
1:C:4865:LYS:N	1:C:4873:ASP:OD2	2.25	0.70
1:E:1111:PRO:HG3	1:E:1609:PRO:HD3	1.73	0.70
1:E:1294:PRO:HD2	1:E:1584:ARG:HH11	1.56	0.70
1:G:1703:LEU:HD12	1:G:1704:PRO:HD2	1.74	0.70
1:A:783:PHE:HB2	1:A:787:VAL:HG21	1.74	0.69
1:C:1029:GLU:HA	1:C:1032:LYS:HD3	1.74	0.69
1:C:1252:HIS:O	1:C:1255:TYR:N	2.23	0.69
1:E:783:PHE:HB2	1:E:787:VAL:HG21	1.74	0.69
1:E:4865:LYS:N	1:E:4873:ASP:OD2	2.25	0.69
1:G:783:PHE:HB2	1:G:787:VAL:HG21	1.74	0.69
1:G:1252:HIS:O	1:G:1255:TYR:N	2.24	0.69
1:A:1245:PHE:HB2	1:A:1602:PRO:HB2	1.74	0.69
1:A:3839:CYS:SG	1:A:3840:SER:N	2.61	0.69
1:A:4180:ARG:NH1	1:A:4981:GLU:OE1	2.24	0.69
1:E:737:LEU:HD13	2:F:8:SER:HB3	1.74	0.69
1:E:1691:GLN:HE22	1:E:1802:ILE:HG22	1.58	0.69
1:G:1821:ASP:OD1	1:G:1822:GLY:N	2.25	0.69
1:A:1727:ARG:HH12	1:A:1775:HIS:CD2	2.10	0.69
1:A:1821:ASP:OD1	1:A:1822:GLY:N	2.25	0.69
1:A:3891:LEU:HD23	1:A:3899:PHE:HZ	1.57	0.69
1:A:4235:VAL:HG21	1:A:5019:TRP:NE1	2.07	0.69
1:C:1810:LYS:HA	1:C:1813:ARG:HH12	1.54	0.69
1:E:3768:SER:HA	1:E:3771:HIS:HB3	1.74	0.69
1:E:4180:ARG:NH1	1:E:4981:GLU:OE1	2.25	0.69
1:A:1029:GLU:HA	1:A:1032:LYS:HD3	1.74	0.69
1:C:4578:LEU:O	1:E:4879:MET:HB3	1.93	0.69
1:E:584:LYS:NZ	1:E:1586:ASN:HD21	1.91	0.69
2:F:87:HIS:HD2	2:F:88:PRO:HD2	1.58	0.69
1:A:584:LYS:NZ	1:A:1586:ASN:HD21	1.91	0.69
1:A:4044:MET:HA	1:A:4047:MET:HG2	1.73	0.69
1:G:1691:GLN:HE22	1:G:1802:ILE:HG22	1.58	0.69
1:C:1294:PRO:HD2	1:C:1584:ARG:HH11	1.56	0.69
1:E:1810:LYS:HD2	1:E:1813:ARG:HH12	1.58	0.69
1:G:1294:PRO:HD2	1:G:1584:ARG:HH11	1.56	0.69
1:A:737:LEU:HD13	2:B:8:SER:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1211:LEU:HD23	1:A:1212:ARG:H	1.57	0.69
1:A:1294:PRO:HD2	1:A:1584:ARG:HH11	1.56	0.69
1:C:4235:VAL:HG21	1:C:5019:TRP:NE1	2.08	0.69
1:A:252:VAL:HG22	1:A:258:SER:HB3	1.75	0.69
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.28	0.69
1:C:4892:ARG:O	1:E:4895:GLY:HA2	1.92	0.69
2:D:87:HIS:HD2	2:D:88:PRO:HD2	1.58	0.69
1:E:1211:LEU:HD23	1:E:1212:ARG:H	1.57	0.69
1:G:584:LYS:NZ	1:G:1586:ASN:HD21	1.90	0.69
1:G:4865:LYS:N	1:G:4873:ASP:OD2	2.26	0.69
1:A:1641:ILE:HG13	1:A:1643:GLU:HG2	1.75	0.69
1:A:1810:LYS:HD2	1:A:1813:ARG:HH12	1.58	0.69
1:C:783:PHE:HB2	1:C:787:VAL:HG21	1.74	0.69
1:C:1211:LEU:HD23	1:C:1212:ARG:H	1.57	0.69
1:C:4892:ARG:NE	1:E:4917:ASP:OD2	2.26	0.69
1:E:3891:LEU:HB3	1:E:3899:PHE:CE2	2.28	0.69
1:E:4235:VAL:HG21	1:E:5019:TRP:NE1	2.08	0.69
1:A:1206:GLN:N	1:A:1227:ALA:HB3	2.08	0.69
1:A:1259:ARG:NH1	1:A:1597:VAL:HA	2.07	0.69
1:C:1821:ASP:OD1	1:C:1822:GLY:N	2.25	0.69
1:G:24:CYS:SG	1:G:25:SER:N	2.67	0.69
1:G:2929:PHE:O	1:G:2933:ASN:ND2	2.26	0.69
2:H:87:HIS:HD2	2:H:88:PRO:HD2	1.58	0.69
1:C:1810:LYS:HD2	1:C:1813:ARG:HH12	1.58	0.68
1:E:1821:ASP:OD1	1:E:1822:GLY:N	2.25	0.68
1:C:2924:GLN:O	1:C:2928:LYS:HG3	1.92	0.68
1:E:4892:ARG:CZ	1:G:4895:GLY:O	2.42	0.68
1:G:252:VAL:HG22	1:G:258:SER:HB3	1.75	0.68
1:A:1111:PRO:HG3	1:A:1609:PRO:HD3	1.73	0.68
1:A:3786:CYS:SG	1:A:3794:VAL:HG22	2.33	0.68
1:E:1259:ARG:NH1	1:E:1597:VAL:HA	2.07	0.68
1:G:1111:PRO:HG3	1:G:1609:PRO:HD3	1.74	0.68
1:A:1703:LEU:HD12	1:A:1704:PRO:HD2	1.74	0.68
1:C:1691:GLN:HE22	1:C:1802:ILE:HG22	1.58	0.68
1:C:1703:LEU:HD12	1:C:1704:PRO:HD2	1.73	0.68
1:C:1727:ARG:NH1	1:C:1775:HIS:HD2	1.92	0.68
1:G:1211:LEU:HD23	1:G:1212:ARG:H	1.57	0.68
1:G:4190:ILE:HD11	1:G:5026:ASP:HB3	1.74	0.68
1:A:1727:ARG:NH1	1:A:1775:HIS:HD2	1.92	0.68
1:C:1727:ARG:HH12	1:C:1775:HIS:CD2	2.10	0.68
1:C:3768:SER:HA	1:C:3771:HIS:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1029:GLU:HA	1:G:1032:LYS:HD3	1.74	0.68
1:G:1616:GLU:HG3	1:G:1617:THR:H	1.58	0.68
1:C:1616:GLU:HG3	1:C:1617:THR:H	1.58	0.68
1:E:4875:LYS:O	1:E:4877:ASP:N	2.27	0.68
1:G:1727:ARG:HH12	1:G:1775:HIS:CD2	2.10	0.68
1:G:4172:GLU:HG2	1:G:4175:ARG:HH22	1.59	0.68
1:A:24:CYS:SG	1:A:25:SER:N	2.66	0.68
1:A:2452:ARG:HH22	1:C:177:GLU:HG3	1.58	0.68
1:A:3768:SER:HA	1:A:3771:HIS:HB3	1.74	0.68
1:C:1259:ARG:NH1	1:C:1597:VAL:HA	2.07	0.68
1:E:24:CYS:SG	1:E:25:SER:N	2.66	0.68
1:E:1252:HIS:O	1:E:1255:TYR:N	2.24	0.68
1:E:3786:CYS:SG	1:E:3794:VAL:HG22	2.33	0.68
1:G:1727:ARG:NH1	1:G:1775:HIS:HD2	1.92	0.68
1:G:2891:LYS:HG3	1:G:2905:LEU:HD22	1.76	0.68
1:A:1691:GLN:HE22	1:A:1802:ILE:HG22	1.58	0.68
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.28	0.68
1:A:4578:LEU:O	1:C:4879:MET:HB3	1.93	0.68
2:B:87:HIS:HD2	2:B:88:PRO:HD2	1.58	0.68
2:D:27:THR:HG22	2:D:100:ASP:HB3	1.76	0.68
1:E:683:ARG:HD2	1:E:705:ASN:HB3	1.76	0.68
1:G:1259:ARG:NH1	1:G:1597:VAL:HA	2.08	0.68
1:G:1783:VAL:HG21	2:H:55:VAL:HG12	1.76	0.68
1:A:1473:THR:HG22	1:A:1489:CYS:HA	1.76	0.68
1:A:1948:ASP:OD1	1:A:2126:ARG:NH2	2.24	0.68
1:C:3891:LEU:HD23	1:C:3899:PHE:HZ	1.58	0.68
1:C:4085:ARG:HB3	1:C:4087:LEU:HD13	1.76	0.67
1:E:589:LEU:HG	1:E:593:HIS:HD2	1.59	0.67
1:E:1727:ARG:NH1	1:E:1775:HIS:HD2	1.92	0.67
1:G:1810:LYS:HD2	1:G:1813:ARG:HH12	1.58	0.67
1:C:737:LEU:HD13	2:D:8:SER:HB3	1.74	0.67
1:C:24:CYS:SG	1:C:25:SER:N	2.67	0.67
1:E:1435:TYR:H	1:E:1516:ILE:CG1	2.06	0.67
1:G:2154:SER:O	1:G:2157:GLU:HG2	1.95	0.67
1:A:1229:ASN:OD1	1:A:1827:ARG:NH2	2.27	0.67
1:A:4892:ARG:NE	1:C:4917:ASP:OD2	2.26	0.67
1:C:1473:THR:HG22	1:C:1489:CYS:HA	1.76	0.67
1:E:2154:SER:O	1:E:2157:GLU:HG2	1.95	0.67
2:B:27:THR:HG22	2:B:100:ASP:HB3	1.76	0.67
1:C:164:ARG:HB3	1:C:167:ASP:OD2	1.95	0.67
1:C:1229:ASN:OD1	1:C:1827:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:345:LEU:HD23	1:E:389:PHE:HB3	1.76	0.67
1:E:2927:LEU:HD23	1:E:2930:LEU:HD12	1.76	0.67
1:E:4555:LEU:HD11	1:E:4656:LEU:HG	1.76	0.67
2:F:27:THR:HG22	2:F:100:ASP:HB3	1.76	0.67
1:A:2154:SER:O	1:A:2157:GLU:HG2	1.95	0.67
1:C:683:ARG:HD2	1:C:705:ASN:HB3	1.76	0.67
1:G:1229:ASN:OD1	1:G:1827:ARG:NH2	2.28	0.67
1:G:3891:LEU:HB3	1:G:3899:PHE:CE2	2.30	0.67
1:A:164:ARG:HB3	1:A:167:ASP:OD2	1.95	0.67
1:A:3806:ASN:H	1:A:3890:LEU:HD23	1.60	0.67
1:A:4085:ARG:HB3	1:A:4087:LEU:HD13	1.77	0.67
1:C:589:LEU:HG	1:C:593:HIS:HD2	1.60	0.67
1:G:356:TRP:N	1:G:379:HIS:O	2.27	0.67
1:G:683:ARG:HD2	1:G:705:ASN:HB3	1.76	0.67
1:A:3893:GLU:OE2	1:A:5001:THR:HG22	1.95	0.67
1:A:4892:ARG:CZ	1:C:4895:GLY:O	2.42	0.67
1:A:4917:ASP:OD2	1:G:4892:ARG:NE	2.28	0.67
1:E:356:TRP:N	1:E:379:HIS:O	2.27	0.67
1:E:3891:LEU:HD23	1:E:3899:PHE:HZ	1.58	0.67
1:A:356:TRP:N	1:A:379:HIS:O	2.27	0.67
1:A:683:ARG:HD2	1:A:705:ASN:HB3	1.76	0.67
1:C:277:GLY:N	1:C:315:CYS:SG	2.68	0.67
1:C:4578:LEU:O	1:E:4879:MET:CG	2.43	0.67
1:E:1727:ARG:HH12	1:E:1775:HIS:CD2	2.11	0.67
1:G:277:GLY:N	1:G:315:CYS:SG	2.68	0.67
1:A:1616:GLU:HG3	1:A:1617:THR:H	1.58	0.67
1:A:2822:THR:HG1	1:A:2938:THR:HG1	1.42	0.67
1:A:4895:GLY:HA2	1:G:4892:ARG:O	1.95	0.67
1:C:2154:SER:O	1:C:2157:GLU:HG2	1.95	0.67
1:E:1616:GLU:HG3	1:E:1617:THR:H	1.58	0.67
1:A:4875:LYS:O	1:A:4877:ASP:N	2.27	0.66
1:C:3806:ASN:H	1:C:3890:LEU:HD23	1.60	0.66
1:E:164:ARG:HB3	1:E:167:ASP:OD2	1.95	0.66
1:E:3771:HIS:HE1	1:E:3811:GLU:HB3	1.61	0.66
1:A:177:GLU:HG3	1:G:2452:ARG:HH22	1.59	0.66
1:A:589:LEU:HG	1:A:593:HIS:HD2	1.60	0.66
1:A:1783:VAL:HG21	2:B:55:VAL:HG12	1.76	0.66
1:C:252:VAL:HG22	1:C:258:SER:HB3	1.77	0.66
1:C:3786:CYS:SG	1:C:3794:VAL:HG22	2.35	0.66
1:C:3893:GLU:OE2	1:C:5001:THR:HG22	1.95	0.66
1:C:4555:LEU:HD11	1:C:4656:LEU:HG	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1767:VAL:O	1:A:1769:THR:N	2.28	0.66
1:A:4849:TYR:O	1:A:4852:THR:HG22	1.95	0.66
1:C:2452:ARG:HH22	1:E:177:GLU:HG3	1.59	0.66
1:E:252:VAL:HG22	1:E:258:SER:HB3	1.76	0.66
1:E:1076:ARG:O	1:E:1237:TRP:N	2.27	0.66
1:G:345:LEU:HD23	1:G:389:PHE:HB3	1.77	0.66
1:G:4875:LYS:O	1:G:4877:ASP:N	2.28	0.66
1:A:526:LEU:HD11	1:A:540:PHE:HZ	1.60	0.66
1:C:1641:ILE:HG13	1:C:1643:GLU:HG2	1.77	0.66
1:C:3771:HIS:HE1	1:C:3811:GLU:HB3	1.61	0.66
1:E:1473:THR:HG22	1:E:1489:CYS:HA	1.76	0.66
1:E:3893:GLU:OE2	1:E:5001:THR:HG22	1.95	0.66
1:G:589:LEU:HG	1:G:593:HIS:HD2	1.59	0.66
1:C:1815:LEU:HD11	1:C:1845:VAL:HG21	1.77	0.66
1:C:4940:PHE:CD2	1:E:4938:ASP:OD2	2.47	0.66
1:E:1229:ASN:OD1	1:E:1827:ARG:NH2	2.28	0.66
1:E:1767:VAL:O	1:E:1769:THR:N	2.28	0.66
1:E:3841:VAL:HG12	1:E:3843:ASP:H	1.61	0.66
1:A:4578:LEU:O	1:C:4879:MET:CG	2.43	0.66
1:A:4937:ILE:HG12	1:C:4934:GLY:HA3	1.77	0.66
1:C:4875:LYS:O	1:C:4877:ASP:N	2.27	0.66
1:E:526:LEU:HD11	1:E:540:PHE:HZ	1.59	0.66
1:E:1641:ILE:HG13	1:E:1643:GLU:HG2	1.76	0.66
1:E:4849:TYR:O	1:E:4852:THR:HG22	1.95	0.66
1:G:1473:THR:HG22	1:G:1489:CYS:HA	1.76	0.66
1:G:1641:ILE:HG13	1:G:1643:GLU:HG2	1.77	0.66
1:A:45:ARG:NH1	1:A:443:LEU:HD11	2.11	0.66
1:A:345:LEU:HD23	1:A:389:PHE:HB3	1.77	0.66
1:A:3841:VAL:HG12	1:A:3843:ASP:H	1.61	0.66
1:A:4190:ILE:HD11	1:A:5026:ASP:HB3	1.78	0.66
1:E:277:GLY:N	1:E:315:CYS:SG	2.68	0.66
1:E:3806:ASN:H	1:E:3890:LEU:HD23	1.60	0.66
1:E:4190:ILE:HD11	1:E:5026:ASP:HB3	1.78	0.66
1:G:648:ILE:HG23	1:G:649:PHE:HD2	1.61	0.66
1:G:1767:VAL:O	1:G:1769:THR:N	2.28	0.66
1:G:2287:ALA:O	1:G:2349:ASN:ND2	2.24	0.66
1:C:4849:TYR:O	1:C:4852:THR:HG22	1.95	0.66
1:E:4688:ILE:HD12	1:E:4737:ILE:HD12	1.77	0.66
1:G:4041:ALA:HA	1:G:4044:MET:HE3	1.78	0.66
1:A:572:PRO:HB3	1:A:609:CYS:HB3	1.78	0.66
2:B:31:GLU:HG2	2:B:96:THR:HB	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1767:VAL:O	1:C:1769:THR:N	2.28	0.66
1:C:2799:GLU:OE1	1:C:2806:ARG:NH2	2.29	0.66
1:E:2883:HIS:NE2	1:E:2906:VAL:O	2.28	0.66
1:G:164:ARG:HB3	1:G:167:ASP:OD2	1.95	0.66
1:G:2862:LEU:HD21	1:G:2929:PHE:HD1	1.61	0.66
1:G:3893:GLU:OE2	1:G:5001:THR:HG22	1.96	0.66
1:A:277:GLY:N	1:A:315:CYS:SG	2.68	0.66
1:A:4555:LEU:HD11	1:A:4656:LEU:HG	1.76	0.66
1:A:4976:GLU:O	1:A:4979:THR:OG1	2.14	0.66
1:C:526:LEU:HD11	1:C:540:PHE:HZ	1.59	0.66
1:C:4830:VAL:HG22	1:C:4936:ILE:HD12	1.78	0.66
1:E:2452:ARG:HH22	1:G:177:GLU:HG3	1.59	0.66
1:E:4085:ARG:HB3	1:E:4087:LEU:HD13	1.76	0.66
1:A:3835:LEU:HD22	1:A:3884:LEU:HD13	1.77	0.65
1:C:45:ARG:NH1	1:C:443:LEU:HD11	2.11	0.65
1:C:3835:LEU:HD22	1:C:3884:LEU:HD13	1.77	0.65
1:C:345:LEU:HD23	1:C:389:PHE:HB3	1.76	0.65
1:C:2822:THR:HG1	1:C:2938:THR:HG1	1.44	0.65
1:C:2883:HIS:NE2	1:C:2906:VAL:O	2.28	0.65
1:C:3841:VAL:HG12	1:C:3843:ASP:H	1.61	0.65
1:C:4172:GLU:HG2	1:C:4175:ARG:HH22	1.61	0.65
1:E:3835:LEU:HD22	1:E:3884:LEU:HD13	1.78	0.65
1:A:1252:HIS:O	1:A:1254:HIS:N	2.30	0.65
1:C:356:TRP:N	1:C:379:HIS:O	2.27	0.65
1:E:2799:GLU:OE1	1:E:2806:ARG:NH2	2.29	0.65
1:G:526:LEU:HD11	1:G:540:PHE:HZ	1.59	0.65
1:C:572:PRO:HB3	1:C:609:CYS:HB3	1.78	0.65
1:C:1090:PHE:HB2	1:C:1204:LEU:HD22	1.79	0.65
1:C:4976:GLU:O	1:C:4979:THR:OG1	2.14	0.65
1:E:1112:ASP:OD1	1:E:1606:SER:OG	2.14	0.65
1:E:1252:HIS:O	1:E:1254:HIS:N	2.30	0.65
1:G:4688:ILE:HG21	1:G:4728:HIS:HB3	1.77	0.65
1:G:4822:THR:O	1:G:4825:THR:OG1	2.14	0.65
2:H:31:GLU:HG2	2:H:96:THR:HB	1.78	0.65
2:D:31:GLU:HG2	2:D:96:THR:HB	1.79	0.65
1:E:2854:GLY:O	1:E:2856:ASN:ND2	2.30	0.65
1:E:4097:MET:HB3	1:E:4108:ILE:HD12	1.79	0.65
1:G:45:ARG:NH1	1:G:443:LEU:HD11	2.11	0.65
1:G:1252:HIS:O	1:G:1254:HIS:N	2.30	0.65
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.28	0.65
1:A:2891:LYS:HG3	1:A:2905:LEU:HD22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4658:ILE:HG22	1:A:4792:LEU:HB3	1.79	0.65
1:A:4688:ILE:HD12	1:A:4737:ILE:HD12	1.77	0.65
1:C:4190:ILE:HD11	1:C:5026:ASP:HB3	1.78	0.65
1:E:1090:PHE:HB2	1:E:1204:LEU:HD22	1.79	0.65
1:E:1783:VAL:HG21	2:F:55:VAL:HG12	1.77	0.65
2:F:31:GLU:HG2	2:F:96:THR:HB	1.79	0.65
1:G:2799:GLU:OE1	1:G:2806:ARG:NH2	2.29	0.65
1:A:2799:GLU:OE1	1:A:2806:ARG:NH2	2.29	0.65
1:E:4578:LEU:O	1:G:4879:MET:CB	2.43	0.65
1:E:4830:VAL:HG22	1:E:4936:ILE:HD12	1.79	0.65
1:A:648:ILE:HG23	1:A:649:PHE:HD2	1.61	0.65
1:A:1815:LEU:HD11	1:A:1845:VAL:HG21	1.77	0.65
1:A:2854:GLY:O	1:A:2856:ASN:ND2	2.29	0.65
1:C:648:ILE:HG23	1:C:649:PHE:HD2	1.61	0.65
1:C:3889:GLN:HG3	1:C:3967:GLU:HG3	1.79	0.65
1:E:2745:VAL:HG21	1:E:2818:ALA:HB2	1.79	0.65
1:E:3889:GLN:HG3	1:E:3967:GLU:HG3	1.79	0.65
1:C:1783:VAL:HG21	2:D:55:VAL:HG12	1.78	0.65
1:C:4688:ILE:HD12	1:C:4737:ILE:HD12	1.77	0.65
1:E:1457:TYR:O	1:E:1458:HIS:CG	2.50	0.65
1:E:4172:GLU:HG2	1:E:4175:ARG:HH22	1.61	0.65
1:G:572:PRO:HB3	1:G:609:CYS:HB3	1.78	0.65
1:G:1076:ARG:O	1:G:1237:TRP:N	2.27	0.65
1:G:1815:LEU:HD11	1:G:1845:VAL:HG21	1.78	0.65
1:G:3791:GLY:O	1:G:3793:MET:N	2.30	0.65
1:G:3969:ILE:HD11	1:G:3980:LEU:HD13	1.77	0.65
1:G:4085:ARG:HB3	1:G:4087:LEU:HD13	1.77	0.65
1:C:1436:SER:H	1:C:1516:ILE:HA	1.61	0.65
1:E:4658:ILE:HG22	1:E:4792:LEU:HB3	1.79	0.65
1:G:2854:GLY:O	1:G:2856:ASN:ND2	2.30	0.65
1:A:4554:TYR:HA	1:A:4557:ARG:NH1	2.12	0.64
1:C:224:HIS:HA	1:C:388:LEU:HD23	1.79	0.64
1:E:4823:LEU:HD11	1:G:4839:MET:HB3	1.79	0.64
1:C:2854:GLY:O	1:C:2856:ASN:ND2	2.29	0.64
1:E:529:LEU:O	1:E:536:ASN:ND2	2.31	0.64
1:E:4554:TYR:HA	1:E:4557:ARG:NH1	2.12	0.64
1:A:3771:HIS:HE1	1:A:3811:GLU:HB3	1.62	0.64
2:B:25:HIS:CG	2:B:40:ARG:HE	2.15	0.64
2:D:25:HIS:CG	2:D:40:ARG:HE	2.16	0.64
1:E:1435:TYR:HB3	1:E:1517:GLY:H	1.61	0.64
1:G:737:LEU:HD13	2:H:8:SER:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1076:ARG:O	1:A:1237:TRP:N	2.26	0.64
1:E:224:HIS:HA	1:E:388:LEU:HD23	1.79	0.64
1:E:4976:GLU:O	1:E:4979:THR:OG1	2.14	0.64
1:G:856:VAL:O	1:G:991:ASN:ND2	2.31	0.64
1:G:1090:PHE:HB2	1:G:1204:LEU:HD22	1.79	0.64
1:A:2929:PHE:O	1:A:2933:ASN:ND2	2.31	0.64
1:C:2891:LYS:HG3	1:C:2905:LEU:HD22	1.79	0.64
1:A:4172:GLU:HG2	1:A:4175:ARG:HH22	1.62	0.64
1:C:145:ALA:HA	1:C:175:SER:HB3	1.80	0.64
1:C:1252:HIS:O	1:C:1254:HIS:N	2.30	0.64
1:C:1435:TYR:HB3	1:C:1517:GLY:H	1.63	0.64
1:E:572:PRO:HB3	1:E:609:CYS:HB3	1.78	0.64
1:E:1206:GLN:N	1:E:1227:ALA:HB3	2.12	0.64
2:F:25:HIS:CG	2:F:40:ARG:HE	2.16	0.64
1:G:23:GLN:HG3	1:G:203:ASN:HD22	1.63	0.64
1:G:529:LEU:O	1:G:536:ASN:ND2	2.31	0.64
1:G:4052:SER:O	1:G:4056:GLU:HG2	1.98	0.64
1:A:3889:GLN:HG3	1:A:3967:GLU:HG3	1.79	0.64
1:C:2745:VAL:HG21	1:C:2818:ALA:HB2	1.79	0.64
1:C:4658:ILE:HG22	1:C:4792:LEU:HB3	1.79	0.64
1:E:648:ILE:HG23	1:E:649:PHE:HD2	1.61	0.64
1:E:1810:LYS:HE3	1:E:1813:ARG:HH22	1.63	0.64
1:E:1815:LEU:HD11	1:E:1845:VAL:HG21	1.78	0.64
1:A:145:ALA:HA	1:A:175:SER:HB3	1.80	0.64
1:A:266:ARG:HH12	1:A:330:ASP:HA	1.63	0.64
1:C:627:PRO:HG3	2:D:89:GLY:C	2.23	0.64
1:E:856:VAL:O	1:E:991:ASN:ND2	2.31	0.64
1:G:1436:SER:H	1:G:1516:ILE:HA	1.63	0.64
1:G:3771:HIS:HE1	1:G:3811:GLU:HB3	1.62	0.64
1:G:4077:PHE:CD2	1:G:4125:PHE:HB3	2.33	0.64
1:C:266:ARG:HH12	1:C:330:ASP:HA	1.63	0.64
1:C:1810:LYS:HE3	1:C:1813:ARG:HH22	1.63	0.64
1:C:4097:MET:HB3	1:C:4108:ILE:HD12	1.80	0.64
1:E:145:ALA:HA	1:E:175:SER:HB3	1.80	0.64
1:E:2178:MET:SD	1:E:2210:VAL:HG11	2.38	0.64
1:G:457:GLU:HG3	1:G:464:LYS:NZ	2.13	0.64
1:G:1810:LYS:HE3	1:G:1813:ARG:HH22	1.63	0.64
1:G:1828:ASP:HB3	1:G:1830:VAL:H	1.63	0.64
1:A:1090:PHE:HB2	1:A:1204:LEU:HD22	1.80	0.64
1:E:45:ARG:NH1	1:E:443:LEU:HD11	2.12	0.64
1:E:457:GLU:HG3	1:E:464:LYS:NZ	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1112:ASP:OD1	1:G:1606:SER:OG	2.15	0.64
1:A:1828:ASP:HB3	1:A:1830:VAL:H	1.63	0.63
1:C:1112:ASP:OD1	1:C:1606:SER:OG	2.15	0.63
1:E:2891:LYS:HG3	1:E:2905:LEU:HD22	1.79	0.63
1:A:184:THR:HA	1:A:189:LEU:HD23	1.79	0.63
1:A:529:LEU:O	1:A:536:ASN:ND2	2.31	0.63
1:A:1160:ILE:HD11	1:A:1182:ILE:HD13	1.81	0.63
1:C:457:GLU:HG3	1:C:464:LYS:NZ	2.12	0.63
1:C:2349:ASN:OD1	1:C:3849:ARG:NH1	2.21	0.63
1:G:3423:TRP:O	1:G:3427:PRO:N	2.31	0.63
1:G:4688:ILE:HD12	1:G:4737:ILE:HD12	1.80	0.63
1:A:274:LEU:HD11	1:A:280:LEU:HD22	1.80	0.63
1:A:2178:MET:SD	1:A:2210:VAL:HG11	2.39	0.63
1:A:4097:MET:HB3	1:A:4108:ILE:HD12	1.80	0.63
1:E:320:LYS:NZ	1:E:383:HIS:O	2.28	0.63
1:G:3817:LEU:HD11	1:G:3821:LYS:HE2	1.80	0.63
2:H:25:HIS:CG	2:H:40:ARG:HE	2.17	0.63
1:A:1275:ARG:NH2	1:A:1599:MET:O	2.32	0.63
1:C:4667:PRO:HA	1:C:4670:ILE:HG22	1.80	0.63
1:E:184:THR:HA	1:E:189:LEU:HD23	1.79	0.63
1:E:2924:GLN:O	1:E:2928:LYS:N	2.25	0.63
1:G:266:ARG:HH12	1:G:330:ASP:HA	1.63	0.63
1:A:4940:PHE:CD2	1:C:4938:ASP:OD2	2.52	0.63
1:C:2178:MET:SD	1:C:2210:VAL:HG11	2.39	0.63
1:C:4554:TYR:HA	1:C:4557:ARG:NH1	2.12	0.63
1:E:1295:VAL:HG22	1:E:1548:LEU:H	1.63	0.63
1:E:1828:ASP:HB3	1:E:1830:VAL:H	1.63	0.63
1:A:23:GLN:HG3	1:A:203:ASN:HD22	1.63	0.63
1:A:224:HIS:HA	1:A:388:LEU:HD23	1.79	0.63
1:A:856:VAL:O	1:A:991:ASN:ND2	2.31	0.63
1:C:184:THR:HA	1:C:189:LEU:HD23	1.79	0.63
1:C:529:LEU:O	1:C:536:ASN:ND2	2.31	0.63
1:C:2146:PRO:HA	1:C:2149:VAL:HG13	1.81	0.63
1:E:1739:THR:O	1:E:1742:THR:OG1	2.17	0.63
1:G:2178:MET:SD	1:G:2210:VAL:HG11	2.38	0.63
1:A:1810:LYS:HE3	1:A:1813:ARG:HH22	1.63	0.63
1:A:4823:LEU:HD11	1:C:4839:MET:HB3	1.81	0.63
1:C:1295:VAL:HG22	1:C:1548:LEU:H	1.63	0.63
1:C:1828:ASP:HB3	1:C:1830:VAL:H	1.63	0.63
1:E:274:LEU:HD11	1:E:280:LEU:HD22	1.79	0.63
1:G:224:HIS:HA	1:G:388:LEU:HD23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4677:LEU:HD22	1:G:4711:PHE:CZ	2.34	0.63
1:C:887:ILE:HG12	1:C:907:LEU:HD13	1.81	0.63
1:E:266:ARG:HH12	1:E:330:ASP:HA	1.63	0.63
1:E:4828:SER:HA	1:E:4831:THR:HG22	1.80	0.63
1:E:1561:VAL:HG13	1:E:1562:ILE:HG22	1.81	0.63
1:G:184:THR:HA	1:G:189:LEU:HD23	1.79	0.63
1:G:1275:ARG:NH2	1:G:1599:MET:O	2.32	0.63
1:G:4686:LEU:HB2	1:G:4690:GLU:HB2	1.81	0.63
1:A:3924:LEU:O	1:A:3927:GLN:HB3	1.99	0.62
1:A:4667:PRO:HA	1:A:4670:ILE:HG22	1.81	0.62
1:C:274:LEU:HD11	1:C:280:LEU:HD22	1.79	0.62
1:C:3924:LEU:O	1:C:3927:GLN:HB3	1.99	0.62
1:E:2146:PRO:HA	1:E:2149:VAL:HG13	1.81	0.62
1:E:2822:THR:HG1	1:E:2938:THR:HG1	1.43	0.62
1:A:221:ARG:NE	1:A:258:SER:OG	2.32	0.62
1:A:457:GLU:HG3	1:A:464:LYS:NZ	2.13	0.62
1:C:320:LYS:NZ	1:C:383:HIS:O	2.29	0.62
1:C:856:VAL:O	1:C:991:ASN:ND2	2.31	0.62
1:E:1585:LYS:HZ3	1:E:1596:GLU:CD	2.05	0.62
1:E:3817:LEU:HD11	1:E:3821:LYS:HE2	1.81	0.62
1:E:4667:PRO:HA	1:E:4670:ILE:HG22	1.81	0.62
1:G:221:ARG:NE	1:G:258:SER:OG	2.32	0.62
1:G:1561:VAL:HG13	1:G:1562:ILE:HG22	1.81	0.62
1:A:1112:ASP:OD1	1:A:1606:SER:OG	2.14	0.62
1:A:1561:VAL:HG13	1:A:1562:ILE:HG22	1.81	0.62
1:A:2146:PRO:HA	1:A:2149:VAL:HG13	1.80	0.62
1:A:2883:HIS:NE2	1:A:2906:VAL:O	2.28	0.62
1:C:4137:ARG:NH2	1:C:4177:TYR:OH	2.33	0.62
1:E:23:GLN:HG3	1:E:203:ASN:HD22	1.63	0.62
1:G:4889:VAL:H	1:G:4892:ARG:HD3	1.62	0.62
1:A:4677:LEU:HD22	1:A:4711:PHE:CZ	2.34	0.62
1:C:1160:ILE:HD11	1:C:1182:ILE:HD13	1.81	0.62
1:C:4823:LEU:HD11	1:E:4839:MET:HB3	1.82	0.62
1:E:627:PRO:HG3	2:F:89:GLY:C	2.24	0.62
1:E:4052:SER:O	1:E:4056:GLU:HG2	2.00	0.62
1:G:145:ALA:HA	1:G:175:SER:HB3	1.80	0.62
1:G:1160:ILE:HD11	1:G:1182:ILE:HD13	1.81	0.62
1:G:4137:ARG:NH2	1:G:4177:TYR:OH	2.32	0.62
1:G:4866:SER:N	1:G:4873:ASP:OD2	2.33	0.62
1:C:1275:ARG:NH2	1:C:1599:MET:O	2.32	0.62
1:E:887:ILE:HG12	1:E:907:LEU:HD13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3924:LEU:O	1:E:3927:GLN:HB3	2.00	0.62
1:G:4727:LYS:O	1:G:4729:GLY:N	2.32	0.62
1:A:1295:VAL:HG22	1:A:1548:LEU:H	1.63	0.62
1:C:23:GLN:HG3	1:C:203:ASN:HD22	1.63	0.62
1:C:626:LEU:HB3	1:C:1688:HIS:CE1	2.35	0.62
1:C:1663:HIS:O	1:C:1666:THR:OG1	2.14	0.62
1:E:626:LEU:HB3	1:E:1688:HIS:CE1	2.35	0.62
1:E:2929:PHE:O	1:E:2933:ASN:ND2	2.31	0.62
1:A:4137:ARG:NH2	1:A:4177:TYR:OH	2.33	0.62
1:E:1275:ARG:NH2	1:E:1599:MET:O	2.32	0.62
1:E:1615:VAL:HG12	1:E:1634:LEU:HD13	1.82	0.62
1:E:3813:GLN:NE2	1:E:3891:LEU:O	2.33	0.62
1:G:2354:VAL:HG11	1:G:2457:LEU:HD11	1.82	0.62
1:A:2745:VAL:HG21	1:A:2818:ALA:HB2	1.80	0.62
1:A:4031:LEU:HB2	1:A:4044:MET:HE1	1.82	0.62
1:C:1076:ARG:O	1:C:1237:TRP:N	2.27	0.62
1:C:2354:VAL:HG11	1:C:2457:LEU:HD11	1.81	0.62
1:C:4031:LEU:HB2	1:C:4044:MET:HE1	1.82	0.62
1:E:3791:GLY:O	1:E:3793:MET:N	2.32	0.62
1:E:4137:ARG:NH2	1:E:4177:TYR:OH	2.33	0.62
1:G:627:PRO:HG3	2:H:89:GLY:C	2.23	0.62
1:A:4708:THR:HG22	1:A:4710:SER:H	1.65	0.62
1:C:2929:PHE:O	1:C:2933:ASN:ND2	2.31	0.62
1:E:1230:MET:HG2	1:E:1828:ASP:HA	1.82	0.62
1:E:4866:SER:N	1:E:4873:ASP:OD2	2.33	0.62
1:G:1230:MET:HG2	1:G:1828:ASP:HA	1.82	0.62
1:G:2146:PRO:HA	1:G:2149:VAL:HG13	1.80	0.62
1:A:705:ASN:OD1	1:A:706:GLY:N	2.33	0.61
1:A:2868:SER:O	1:A:2872:GLN:N	2.32	0.61
1:C:829:TYR:HA	1:C:1073:ARG:NH1	2.15	0.61
1:C:1615:VAL:HG12	1:C:1634:LEU:HD13	1.82	0.61
1:C:2922:LYS:HA	1:C:2925:GLU:CD	2.23	0.61
1:C:3817:LEU:HD11	1:C:3821:LYS:HE2	1.81	0.61
1:C:4052:SER:O	1:C:4056:GLU:HG2	2.00	0.61
1:C:4866:SER:N	1:C:4873:ASP:OD2	2.33	0.61
1:E:111:HIS:CD2	1:E:114:SER:H	2.16	0.61
1:E:135:VAL:HG23	1:E:192:ASP:HA	1.82	0.61
1:E:4664:LEU:O	1:E:4667:PRO:HD2	2.01	0.61
1:A:340:LYS:HB2	1:A:344:SER:HB2	1.82	0.61
1:C:340:LYS:HB2	1:C:344:SER:HB2	1.82	0.61
1:C:644:ILE:HD11	1:C:1619:ARG:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1230:MET:HG2	1:C:1828:ASP:HA	1.82	0.61
1:E:1436:SER:H	1:E:1516:ILE:HA	1.65	0.61
1:E:2341:VAL:HG22	1:E:2342:ASN:H	1.65	0.61
1:E:4708:THR:HG22	1:E:4710:SER:H	1.65	0.61
1:G:1663:HIS:O	1:G:1666:THR:OG1	2.14	0.61
1:G:4708:THR:HG22	1:G:4710:SER:H	1.64	0.61
1:A:627:PRO:HG3	2:B:89:GLY:C	2.24	0.61
1:A:650:VAL:O	1:A:777:PHE:N	2.30	0.61
1:A:1243:PRO:O	1:A:1458:HIS:ND1	2.32	0.61
1:A:3817:LEU:HD11	1:A:3821:LYS:HE2	1.81	0.61
1:A:4686:LEU:HB2	1:A:4690:GLU:HB2	1.82	0.61
1:A:4828:SER:HA	1:A:4831:THR:HG22	1.82	0.61
1:E:4677:LEU:HD22	1:E:4711:PHE:CZ	2.35	0.61
1:E:4686:LEU:HB2	1:E:4690:GLU:HB2	1.82	0.61
1:G:4828:SER:HA	1:G:4831:THR:HG22	1.83	0.61
1:A:135:VAL:HG23	1:A:192:ASP:HA	1.82	0.61
1:A:887:ILE:HG12	1:A:907:LEU:HD13	1.81	0.61
1:A:4786:ASP:OD2	1:A:4788:SER:OG	2.07	0.61
1:C:135:VAL:HG23	1:C:192:ASP:HA	1.82	0.61
1:C:1457:TYR:O	1:C:1458:HIS:CG	2.53	0.61
1:C:4828:SER:HA	1:C:4831:THR:HG22	1.81	0.61
1:G:674:PHE:HZ	2:H:100:ASP:OD2	1.83	0.61
1:G:817:PRO:HB3	1:G:1022:VAL:HG11	1.82	0.61
1:A:626:LEU:HB3	1:A:1688:HIS:CE1	2.35	0.61
1:C:4677:LEU:HD22	1:C:4711:PHE:CZ	2.34	0.61
1:E:221:ARG:NE	1:E:258:SER:OG	2.32	0.61
1:G:274:LEU:HD11	1:G:280:LEU:HD22	1.80	0.61
1:G:829:TYR:HA	1:G:1073:ARG:NH1	2.15	0.61
1:G:3891:LEU:HB3	1:G:3899:PHE:HE2	1.63	0.61
1:A:717:ASP:HB2	1:A:737:LEU:HA	1.83	0.61
1:A:829:TYR:HA	1:A:1073:ARG:NH1	2.15	0.61
1:A:2341:VAL:HG22	1:A:2342:ASN:H	1.65	0.61
1:A:4052:SER:O	1:A:4056:GLU:HG2	2.00	0.61
1:A:4077:PHE:CD2	1:A:4125:PHE:HB3	2.35	0.61
1:A:4866:SER:N	1:A:4873:ASP:OD2	2.33	0.61
1:C:1561:VAL:HG13	1:C:1562:ILE:HG22	1.81	0.61
1:C:2868:SER:O	1:C:2872:GLN:N	2.32	0.61
1:C:3813:GLN:NE2	1:C:3891:LEU:O	2.33	0.61
1:E:1160:ILE:HD11	1:E:1182:ILE:HD13	1.81	0.61
1:G:1295:VAL:HG22	1:G:1548:LEU:H	1.64	0.61
1:C:3791:GLY:O	1:C:3793:MET:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:135:VAL:HG23	1:G:192:ASP:HA	1.82	0.61
1:G:2745:VAL:HG21	1:G:2818:ALA:HB2	1.80	0.61
1:C:723:THR:OG1	1:C:728:ARG:NH1	2.34	0.61
1:C:1436:SER:HA	1:C:1515:VAL:O	1.99	0.61
1:E:717:ASP:HB2	1:E:737:LEU:HA	1.82	0.61
1:G:887:ILE:HG12	1:G:907:LEU:HD13	1.82	0.61
1:A:80:GLU:OE1	1:G:3935:TRP:HE3	1.83	0.61
1:A:817:PRO:HB3	1:A:1022:VAL:HG11	1.82	0.61
1:A:3813:GLN:NE2	1:A:3891:LEU:O	2.34	0.61
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.01	0.61
2:F:11:ASP:OD2	2:F:68:VAL:HB	2.01	0.61
1:G:626:LEU:HB3	1:G:1688:HIS:CE1	2.35	0.61
1:G:1585:LYS:HZ3	1:G:1596:GLU:CD	2.04	0.61
1:G:4044:MET:HA	1:G:4047:MET:HG2	1.83	0.61
1:A:717:ASP:OD1	1:A:718:GLY:N	2.34	0.61
1:C:347:PHE:HE1	1:C:387:ALA:HA	1.66	0.61
1:E:4687:TYR:OH	1:E:4699:GLY:O	2.19	0.61
1:E:4979:THR:O	1:E:4984:ASN:N	2.32	0.61
1:A:102:LEU:HB2	1:A:105:HIS:CD2	2.36	0.60
1:A:2354:VAL:HG11	1:A:2457:LEU:HD11	1.82	0.60
1:A:4826:ILE:HG23	1:C:4931:ILE:HD11	1.79	0.60
1:C:4077:PHE:CD2	1:C:4125:PHE:HB3	2.35	0.60
1:E:347:PHE:HE1	1:E:387:ALA:HA	1.66	0.60
1:E:817:PRO:HB3	1:E:1022:VAL:HG11	1.82	0.60
1:E:829:TYR:HA	1:E:1073:ARG:NH1	2.15	0.60
1:E:1088:TRP:HZ3	1:E:1229:ASN:HD21	1.49	0.60
1:E:2349:ASN:OD1	1:E:3849:ARG:NH1	2.21	0.60
1:E:2354:VAL:HG11	1:E:2457:LEU:HD11	1.82	0.60
1:E:4077:PHE:CD2	1:E:4125:PHE:HB3	2.35	0.60
1:G:1739:THR:O	1:G:1742:THR:OG1	2.16	0.60
1:G:4027:LEU:HD22	1:G:4146:LEU:HD11	1.82	0.60
1:C:2355:ARG:O	1:C:2359:ARG:NE	2.33	0.60
1:E:644:ILE:HD11	1:E:1619:ARG:HD2	1.82	0.60
1:E:4786:ASP:OD2	1:E:4788:SER:OG	2.07	0.60
1:G:3806:ASN:H	1:G:3890:LEU:HD23	1.66	0.60
1:G:3989:VAL:HG13	1:G:4023:MET:HE2	1.81	0.60
1:G:4686:LEU:O	1:G:4690:GLU:N	2.33	0.60
1:A:495:ASN:HD22	1:A:550:LYS:HD2	1.66	0.60
1:A:3962:PHE:O	1:A:3966:THR:HG23	2.01	0.60
1:E:495:ASN:HD22	1:E:550:LYS:HD2	1.66	0.60
1:E:717:ASP:OD2	2:F:7:ILE:O	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3937:TYR:HA	1:E:3940:LYS:HZ3	1.66	0.60
1:G:347:PHE:HE1	1:G:387:ALA:HA	1.66	0.60
1:G:717:ASP:OD1	1:G:718:GLY:N	2.34	0.60
1:A:1615:VAL:HG12	1:A:1634:LEU:HD13	1.82	0.60
1:C:717:ASP:OD2	2:D:7:ILE:O	2.20	0.60
1:E:445:LEU:HD21	1:E:522:LEU:HG	1.84	0.60
1:E:717:ASP:OD1	1:E:718:GLY:N	2.34	0.60
1:E:723:THR:OG1	1:E:728:ARG:NH1	2.33	0.60
1:G:102:LEU:HB2	1:G:105:HIS:CD2	2.37	0.60
1:G:495:ASN:HD22	1:G:550:LYS:HD2	1.66	0.60
1:G:644:ILE:HD11	1:G:1619:ARG:HD2	1.82	0.60
1:G:2924:GLN:HB3	1:G:2928:LYS:CE	2.31	0.60
1:A:717:ASP:OD2	2:B:7:ILE:O	2.19	0.60
1:A:1547:LYS:NZ	1:A:1645:ASN:HB2	2.16	0.60
1:C:717:ASP:HB2	1:C:737:LEU:HA	1.82	0.60
1:C:4686:LEU:HB2	1:C:4690:GLU:HB2	1.82	0.60
1:C:4809:PHE:O	1:C:4812:HIS:ND1	2.28	0.60
1:E:1547:LYS:NZ	1:E:1645:ASN:HB2	2.15	0.60
1:G:639:ASN:HA	1:G:1635:THR:HG22	1.83	0.60
1:G:705:ASN:OD1	1:G:706:GLY:N	2.33	0.60
1:G:1088:TRP:HZ3	1:G:1229:ASN:HD21	1.50	0.60
1:G:4664:LEU:O	1:G:4667:PRO:HD2	2.01	0.60
1:A:445:LEU:HD21	1:A:522:LEU:HG	1.84	0.60
1:C:445:LEU:HD21	1:C:522:LEU:HG	1.84	0.60
1:C:1435:TYR:H	1:C:1516:ILE:CG1	2.14	0.60
1:C:1961:PHE:CD1	1:C:2066:LEU:HD13	2.37	0.60
1:C:3962:PHE:O	1:C:3966:THR:HG23	2.02	0.60
2:D:11:ASP:OD2	2:D:68:VAL:HB	2.02	0.60
1:G:2868:SER:O	1:G:2872:GLN:N	2.32	0.60
1:C:2356:LEU:HD23	1:C:2359:ARG:NH1	2.17	0.60
1:C:4708:THR:HG22	1:C:4710:SER:H	1.65	0.60
1:G:320:LYS:NZ	1:G:383:HIS:O	2.29	0.60
1:G:1547:LYS:NZ	1:G:1645:ASN:HB2	2.17	0.60
1:G:1615:VAL:HG12	1:G:1634:LEU:HD13	1.82	0.60
1:G:2356:LEU:HD23	1:G:2359:ARG:NH1	2.17	0.60
1:A:2356:LEU:HD23	1:A:2359:ARG:NH1	2.17	0.60
1:C:705:ASN:OD1	1:C:706:GLY:N	2.33	0.60
1:C:717:ASP:OD1	1:C:718:GLY:N	2.34	0.60
1:C:1088:TRP:HZ3	1:C:1229:ASN:HD21	1.49	0.60
1:G:2066:LEU:O	1:G:2069:THR:OG1	2.17	0.60
1:A:1230:MET:HG2	1:A:1828:ASP:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2517:PHE:HA	1:A:2520:HIS:CE1	2.37	0.60
1:A:4830:VAL:HG22	1:A:4936:ILE:HD12	1.84	0.60
1:G:2341:VAL:HG22	1:G:2342:ASN:H	1.66	0.60
1:G:4667:PRO:HA	1:G:4670:ILE:HG22	1.84	0.60
1:A:119:SER:HB2	1:A:145:ALA:HB1	1.84	0.60
1:A:644:ILE:HD11	1:A:1619:ARG:HD2	1.82	0.60
1:A:1815:LEU:HD13	1:A:1865:MET:HE1	1.83	0.60
1:C:221:ARG:NE	1:C:258:SER:OG	2.32	0.60
1:C:2341:VAL:HG22	1:C:2342:ASN:H	1.66	0.60
1:C:4687:TYR:OH	1:C:4699:GLY:O	2.19	0.60
1:E:340:LYS:HB2	1:E:344:SER:HB2	1.82	0.60
1:E:2496:PRO:HG3	1:E:2549:ALA:HB1	1.84	0.60
1:E:3962:PHE:O	1:E:3966:THR:HG23	2.01	0.60
1:E:4031:LEU:HB2	1:E:4044:MET:HE1	1.82	0.60
1:A:347:PHE:HE1	1:A:387:ALA:HA	1.66	0.59
1:A:3791:GLY:O	1:A:3793:MET:N	2.32	0.59
1:C:639:ASN:HA	1:C:1635:THR:HG22	1.83	0.59
1:C:1739:THR:O	1:C:1742:THR:OG1	2.17	0.59
1:C:2517:PHE:HA	1:C:2520:HIS:CE1	2.37	0.59
1:E:2356:LEU:HD23	1:E:2359:ARG:NH1	2.17	0.59
1:E:4806:ASN:O	1:E:4809:PHE:HB3	2.01	0.59
1:G:445:LEU:HD21	1:G:522:LEU:HG	1.84	0.59
1:G:2496:PRO:HG3	1:G:2549:ALA:HB1	1.84	0.59
1:G:2517:PHE:HA	1:G:2520:HIS:CE1	2.37	0.59
1:C:102:LEU:HB2	1:C:105:HIS:CD2	2.37	0.59
1:C:1547:LYS:NZ	1:C:1645:ASN:HB2	2.16	0.59
1:E:705:ASN:OD1	1:E:706:GLY:N	2.33	0.59
1:G:340:LYS:HB2	1:G:344:SER:HB2	1.83	0.59
1:C:495:ASN:HD22	1:C:550:LYS:HD2	1.66	0.59
1:G:250:GLY:O	1:G:252:VAL:N	2.35	0.59
1:A:1739:THR:O	1:A:1742:THR:OG1	2.17	0.59
1:A:2927:LEU:HD23	1:A:2930:LEU:HD12	1.85	0.59
2:B:11:ASP:OD2	2:B:68:VAL:HB	2.01	0.59
1:C:2927:LEU:HD23	1:C:2930:LEU:HD12	1.84	0.59
1:E:494:LEU:HB3	1:E:515:TRP:HE1	1.68	0.59
1:E:635:THR:HG23	1:E:1693:GLN:HE22	1.68	0.59
1:E:4928:LEU:O	1:E:4931:ILE:HG22	2.02	0.59
1:G:2355:ARG:O	1:G:2359:ARG:NE	2.33	0.59
1:A:350:HIS:O	1:A:354:GLY:N	2.28	0.59
1:E:617:ASN:O	1:E:621:ILE:HG12	2.02	0.59
1:E:639:ASN:HA	1:E:1635:THR:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1105:ALA:HB3	1:G:1191:VAL:HG21	1.84	0.59
1:G:1815:LEU:HD13	1:G:1865:MET:HE1	1.84	0.59
1:A:293:LEU:HD13	1:A:350:HIS:CD2	2.38	0.59
1:C:1206:GLN:N	1:C:1227:ALA:HB3	2.12	0.59
1:E:119:SER:HB2	1:E:145:ALA:HB1	1.85	0.59
1:E:1815:LEU:HD13	1:E:1865:MET:HE1	1.85	0.59
1:E:2205:GLU:O	1:E:2209:GLU:N	2.36	0.59
1:E:4904:PRO:HB2	1:E:4910:GLU:HG2	1.85	0.59
1:G:717:ASP:OD2	2:H:7:ILE:O	2.19	0.59
1:G:1620:ALA:N	1:G:1629:GLN:O	2.33	0.59
1:G:1961:PHE:CD1	1:G:2066:LEU:HD13	2.37	0.59
1:G:2205:GLU:O	1:G:2209:GLU:N	2.36	0.59
1:G:4554:TYR:HA	1:G:4557:ARG:NH1	2.17	0.59
2:H:11:ASP:OD2	2:H:68:VAL:HB	2.03	0.59
1:A:1105:ALA:HB3	1:A:1191:VAL:HG21	1.84	0.59
1:C:1598:GLN:O	1:C:1600:LEU:N	2.34	0.59
1:C:3839:CYS:SG	1:C:3840:SER:N	2.61	0.59
1:E:1457:TYR:O	1:E:1458:HIS:CD2	2.56	0.59
1:G:4097:MET:HB3	1:G:4108:ILE:HD12	1.84	0.59
1:G:4928:LEU:HA	1:G:4931:ILE:HG22	1.85	0.59
1:A:1961:PHE:CD1	1:A:2066:LEU:HD13	2.37	0.59
1:A:2349:ASN:OD1	1:A:3849:ARG:NH1	2.21	0.59
1:G:584:LYS:HZ3	1:G:1586:ASN:HD21	1.50	0.59
1:G:635:THR:HG23	1:G:1693:GLN:HE22	1.68	0.59
1:G:4705:VAL:HG22	1:G:4711:PHE:HD1	1.68	0.59
1:A:617:ASN:O	1:A:621:ILE:HG12	2.03	0.59
1:C:119:SER:HB2	1:C:145:ALA:HB1	1.85	0.59
1:C:293:LEU:HD13	1:C:350:HIS:CD2	2.38	0.59
1:C:617:ASN:O	1:C:621:ILE:HG12	2.02	0.59
1:C:817:PRO:HB3	1:C:1022:VAL:HG11	1.82	0.59
1:C:4904:PRO:HB2	1:C:4910:GLU:HG2	1.85	0.59
1:G:717:ASP:HB2	1:G:737:LEU:HA	1.85	0.59
1:A:2496:PRO:HG3	1:A:2549:ALA:HB1	1.85	0.59
1:C:57:ASN:HD22	1:C:308:HIS:HB2	1.67	0.59
1:C:650:VAL:O	1:C:777:PHE:N	2.30	0.59
1:C:2496:PRO:HG3	1:C:2549:ALA:HB1	1.85	0.59
1:E:57:ASN:HD22	1:E:308:HIS:HB2	1.67	0.59
1:E:102:LEU:HB2	1:E:105:HIS:CD2	2.37	0.59
1:E:1961:PHE:CD1	1:E:2066:LEU:HD13	2.38	0.59
1:G:617:ASN:O	1:G:621:ILE:HG12	2.02	0.59
1:G:723:THR:OG1	1:G:728:ARG:NH1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.01	0.58
1:A:4931:ILE:HD11	1:G:4826:ILE:CG2	2.33	0.58
1:C:2125:HIS:HD2	1:C:3728:ILE:HD11	1.67	0.58
1:E:249:GLY:H	1:E:372:LEU:HD11	1.68	0.58
1:G:494:LEU:HB3	1:G:515:TRP:HE1	1.68	0.58
1:A:737:LEU:CD1	2:B:8:SER:HB3	2.33	0.58
1:A:2793:PRO:O	1:A:2796:THR:OG1	2.20	0.58
1:A:4904:PRO:HB2	1:A:4910:GLU:HG2	1.86	0.58
1:C:358:THR:HA	1:C:386:ASP:OD2	2.04	0.58
1:C:737:LEU:CD1	2:D:8:SER:HB3	2.34	0.58
1:C:1105:ALA:HB3	1:C:1191:VAL:HG21	1.84	0.58
1:C:1437:VAL:N	1:C:1515:VAL:O	2.35	0.58
1:C:1815:LEU:HD13	1:C:1865:MET:HE1	1.84	0.58
1:C:4979:THR:O	1:C:4984:ASN:N	2.31	0.58
1:E:293:LEU:HD13	1:E:350:HIS:CD2	2.38	0.58
1:E:737:LEU:CD1	2:F:8:SER:HB3	2.33	0.58
1:E:1105:ALA:HB3	1:E:1191:VAL:HG21	1.84	0.58
1:E:2517:PHE:HA	1:E:2520:HIS:CE1	2.37	0.58
1:E:2890:LYS:HE3	1:E:2894:LEU:HD11	1.85	0.58
1:G:293:LEU:HD13	1:G:350:HIS:CD2	2.38	0.58
1:G:1435:TYR:HB3	1:G:1517:GLY:H	1.68	0.58
1:G:2126:ARG:HB2	1:G:2133:GLU:OE1	2.03	0.58
1:A:358:THR:HA	1:A:386:ASP:OD2	2.03	0.58
1:A:723:THR:OG1	1:A:728:ARG:NH1	2.34	0.58
1:E:1091:GLU:HG2	1:E:1213:PHE:HB2	1.85	0.58
1:G:119:SER:HB2	1:G:145:ALA:HB1	1.85	0.58
1:G:1206:GLN:N	1:G:1227:ALA:HB3	2.12	0.58
1:A:4687:TYR:OH	1:A:4699:GLY:O	2.20	0.58
1:E:404:ILE:HD13	1:E:481:GLU:HG3	1.85	0.58
1:A:250:GLY:O	1:A:252:VAL:N	2.36	0.58
1:A:494:LEU:HB3	1:A:515:TRP:HE1	1.68	0.58
1:A:2125:HIS:HD2	1:A:3728:ILE:HD11	1.68	0.58
1:E:1598:GLN:O	1:E:1600:LEU:N	2.33	0.58
1:G:3839:CYS:SG	1:G:3881:THR:HG22	2.44	0.58
1:A:635:THR:HG23	1:A:1693:GLN:HE22	1.68	0.58
1:A:4839:MET:HB3	1:G:4823:LEU:HD11	1.85	0.58
1:C:15:ARG:N	1:C:18:ASP:OD2	2.37	0.58
1:C:404:ILE:HD13	1:C:481:GLU:HG3	1.86	0.58
1:C:635:THR:HG23	1:C:1693:GLN:HE22	1.68	0.58
1:C:864:PRO:O	1:C:868:GLU:N	2.32	0.58
1:C:1190:PRO:HG3	1:C:1226:PHE:CE2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1745:ILE:HD11	1:C:1769:THR:HG21	1.86	0.58
1:G:3768:SER:HA	1:G:3771:HIS:HB3	1.84	0.58
1:G:3780:LEU:HD21	1:G:3820:LEU:HD21	1.85	0.58
1:A:639:ASN:HA	1:A:1635:THR:HG22	1.84	0.58
1:A:1933:GLU:HB3	1:A:2116:LEU:HD21	1.86	0.58
1:A:2355:ARG:O	1:A:2359:ARG:NE	2.33	0.58
1:C:4806:ASN:O	1:C:4809:PHE:HB3	2.04	0.58
1:G:2349:ASN:OD1	1:G:3849:ARG:NH1	2.26	0.58
1:A:57:ASN:HD22	1:A:308:HIS:HB2	1.67	0.58
1:A:1745:ILE:HD11	1:A:1769:THR:HG21	1.86	0.58
1:C:2205:GLU:O	1:C:2209:GLU:N	2.36	0.58
1:C:2890:LYS:HE3	1:C:2894:LEU:HD11	1.84	0.58
1:E:15:ARG:N	1:E:18:ASP:OD2	2.36	0.58
1:E:2868:SER:O	1:E:2872:GLN:N	2.32	0.58
1:G:640:TYR:CE1	1:G:1613:LEU:HD23	2.37	0.58
1:G:737:LEU:CD1	2:H:8:SER:HB3	2.33	0.58
1:G:1091:GLU:HG2	1:G:1213:PHE:HB2	1.85	0.58
1:A:195:PHE:CD2	1:G:2358:ILE:HG23	2.39	0.58
1:A:249:GLY:H	1:A:372:LEU:HD11	1.68	0.58
1:A:1620:ALA:N	1:A:1629:GLN:O	2.33	0.58
1:C:1091:GLU:HG2	1:C:1213:PHE:HB2	1.85	0.58
1:C:2358:ILE:HG23	1:E:195:PHE:CD2	2.39	0.58
1:E:1933:GLU:HB3	1:E:2116:LEU:HD21	1.86	0.58
1:E:2125:HIS:HD2	1:E:3728:ILE:HD11	1.68	0.58
1:E:2756:ASN:OD1	1:E:2806:ARG:NH2	2.37	0.58
1:G:249:GLY:H	1:G:372:LEU:HD11	1.68	0.58
1:G:358:THR:HA	1:G:386:ASP:OD2	2.03	0.58
1:G:1933:GLU:HB3	1:G:2116:LEU:HD21	1.86	0.58
1:G:3781:GLN:O	1:G:3784:SER:OG	2.19	0.58
1:G:4855:ALA:HB1	1:G:4863:TYR:CE2	2.39	0.58
1:A:111:HIS:HD2	1:A:114:SER:N	2.00	0.58
1:A:2358:ILE:HG23	1:C:195:PHE:CD2	2.39	0.58
1:A:4806:ASN:O	1:A:4809:PHE:HB3	2.04	0.58
1:C:1620:ALA:N	1:C:1629:GLN:O	2.33	0.58
1:E:358:THR:HA	1:E:386:ASP:OD2	2.03	0.58
1:E:2211:MET:HE2	1:E:2232:CYS:SG	2.44	0.58
1:G:650:VAL:O	1:G:777:PHE:N	2.30	0.58
1:G:3169:LEU:O	1:G:3173:TYR:N	2.36	0.58
1:A:320:LYS:NZ	1:A:383:HIS:O	2.29	0.57
1:A:1436:SER:N	1:A:1516:ILE:HA	2.19	0.57
1:E:1243:PRO:O	1:E:1458:HIS:CE1	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:111:HIS:HD2	1:G:114:SER:N	2.00	0.57
1:G:2890:LYS:HE3	1:G:2894:LEU:HD11	1.85	0.57
1:A:421:PHE:CD1	1:A:507:ALA:HB2	2.39	0.57
1:A:1663:HIS:O	1:A:1666:THR:OG1	2.13	0.57
1:A:2756:ASN:OD1	1:A:2806:ARG:NH2	2.37	0.57
1:A:3805:LEU:O	1:A:3807:GLY:N	2.37	0.57
1:A:3934:TYR:HD1	1:A:3999:MET:HE2	1.69	0.57
2:D:87:HIS:HB3	2:D:91:ILE:H	1.69	0.57
1:E:421:PHE:CD1	1:E:507:ALA:HB2	2.39	0.57
1:G:57:ASN:HD22	1:G:308:HIS:HB2	1.67	0.57
1:G:461:HIS:O	1:G:465:GLN:HG2	2.04	0.57
1:G:2259:GLU:HG2	1:G:2297:LYS:HE2	1.86	0.57
1:G:2454:ARG:O	1:G:2458:ARG:HG3	2.04	0.57
1:G:4830:VAL:HG22	1:G:4936:ILE:HD12	1.86	0.57
1:A:2890:LYS:HE3	1:A:2894:LEU:HD11	1.85	0.57
1:A:4245:MET:SD	1:A:4993:MET:HE1	2.45	0.57
1:C:250:GLY:O	1:C:252:VAL:N	2.38	0.57
1:C:1933:GLU:HB3	1:C:2116:LEU:HD21	1.86	0.57
1:E:864:PRO:O	1:E:868:GLU:N	2.33	0.57
1:E:1480:GLN:N	1:E:1481:GLY:HA2	2.19	0.57
2:F:87:HIS:HB3	2:F:91:ILE:H	1.69	0.57
1:G:2125:HIS:HD2	1:G:3728:ILE:HD11	1.69	0.57
1:A:15:ARG:N	1:A:18:ASP:OD2	2.37	0.57
1:A:1564:PHE:CE2	1:A:1601:MET:HE2	2.39	0.57
1:A:3835:LEU:HD21	1:A:3880:PHE:CE2	2.40	0.57
1:A:4077:PHE:O	1:A:4081:VAL:N	2.37	0.57
1:E:250:GLY:O	1:E:252:VAL:N	2.38	0.57
1:E:4027:LEU:HD22	1:E:4146:LEU:HD11	1.86	0.57
1:G:1745:ILE:HD11	1:G:1769:THR:HG21	1.86	0.57
2:H:87:HIS:HB3	2:H:91:ILE:H	1.68	0.57
1:A:2205:GLU:O	1:A:2209:GLU:N	2.36	0.57
1:C:2126:ARG:HB2	1:C:2133:GLU:OE1	2.05	0.57
1:C:2756:ASN:OD1	1:C:2806:ARG:NH2	2.37	0.57
1:C:3805:LEU:O	1:C:3807:GLY:N	2.37	0.57
1:E:1745:ILE:HD11	1:E:1769:THR:HG21	1.86	0.57
1:E:2771:ILE:HD11	1:E:2857:PRO:HD2	1.87	0.57
1:G:768:PHE:HB3	1:G:771:PHE:HE1	1.69	0.57
1:G:3897:ASN:O	1:G:3901:ASN:ND2	2.36	0.57
1:A:16:THR:HB	1:A:98:HIS:HA	1.87	0.57
1:A:170:ILE:HD11	1:A:199:LEU:HD23	1.85	0.57
1:A:649:PHE:CE1	1:A:689:THR:HG22	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1480:GLN:N	1:A:1481:GLY:HA2	2.19	0.57
1:A:2498:HIS:O	1:A:2501:SER:OG	2.20	0.57
1:C:350:HIS:O	1:C:354:GLY:N	2.27	0.57
1:C:3934:TYR:HD1	1:C:3999:MET:HE2	1.70	0.57
1:E:1564:PHE:CE2	1:E:1601:MET:HE2	2.39	0.57
1:G:170:ILE:HD11	1:G:199:LEU:HD23	1.86	0.57
1:G:1436:SER:H	1:G:1516:ILE:CG1	2.17	0.57
1:G:4026:MET:HG3	1:G:4027:LEU:N	2.19	0.57
1:A:495:ASN:HB3	1:A:553:ARG:NH2	2.20	0.57
1:A:1731:LEU:HD21	1:A:1948:ASP:HB3	1.87	0.57
1:A:2771:ILE:HD11	1:A:2857:PRO:HD2	1.87	0.57
1:C:494:LEU:HB3	1:C:515:TRP:HE1	1.69	0.57
1:C:523:TYR:CD1	1:C:560:ILE:HG12	2.40	0.57
1:C:1480:GLN:N	1:C:1481:GLY:HA2	2.19	0.57
1:C:1564:PHE:CE2	1:C:1601:MET:HE2	2.40	0.57
1:E:170:ILE:HD11	1:E:199:LEU:HD23	1.86	0.57
1:E:2454:ARG:O	1:E:2458:ARG:HG3	2.04	0.57
1:G:15:ARG:N	1:G:18:ASP:OD2	2.36	0.57
1:G:421:PHE:CD1	1:G:507:ALA:HB2	2.40	0.57
1:G:2211:MET:HE2	1:G:2232:CYS:SG	2.44	0.57
1:G:4047:MET:HG3	1:G:4048:LEU:N	2.18	0.57
1:A:4205:TRP:CZ2	1:A:4986:ALA:HB2	2.40	0.57
1:A:4928:LEU:O	1:A:4931:ILE:HG22	2.04	0.57
1:C:768:PHE:HB3	1:C:771:PHE:HE1	1.69	0.57
1:C:2211:MET:HE2	1:C:2232:CYS:SG	2.44	0.57
1:C:2259:GLU:HG2	1:C:2297:LYS:HE2	1.87	0.57
1:G:1480:GLN:N	1:G:1481:GLY:HA2	2.19	0.57
1:G:2551:ASN:O	1:G:2554:LEU:HG	2.05	0.57
1:A:1833:SER:HB2	1:A:1836:PHE:HD2	1.70	0.57
1:A:2454:ARG:O	1:A:2458:ARG:HG3	2.04	0.57
1:C:249:GLY:H	1:C:372:LEU:HD11	1.69	0.57
1:C:421:PHE:CD1	1:C:507:ALA:HB2	2.39	0.57
1:C:2556:LEU:HA	1:C:2559:LEU:HD13	1.87	0.57
1:C:2771:ILE:HD11	1:C:2857:PRO:HD2	1.87	0.57
1:C:3835:LEU:HD21	1:C:3880:PHE:CE2	2.39	0.57
1:E:16:THR:HB	1:E:98:HIS:HA	1.87	0.57
1:E:495:ASN:HB3	1:E:553:ARG:NH2	2.20	0.57
1:E:523:TYR:CD1	1:E:560:ILE:HG12	2.40	0.57
1:E:649:PHE:CE1	1:E:689:THR:HG22	2.40	0.57
1:E:3835:LEU:HD21	1:E:3880:PHE:CE2	2.40	0.57
1:G:649:PHE:CE1	1:G:689:THR:HG22	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1564:PHE:CE2	1:G:1601:MET:HE2	2.39	0.57
1:A:232:THR:OG1	1:A:252:VAL:HG21	2.05	0.57
1:C:4077:PHE:O	1:C:4081:VAL:N	2.37	0.57
1:E:2259:GLU:HG2	1:E:2297:LYS:HE2	1.87	0.57
1:E:2355:ARG:O	1:E:2359:ARG:NE	2.33	0.57
1:E:4826:ILE:HG23	1:G:4931:ILE:HD11	1.80	0.57
1:G:257:ARG:O	1:G:284:HIS:HE1	1.88	0.57
1:G:523:TYR:CD1	1:G:560:ILE:HG12	2.40	0.57
1:G:1731:LEU:HD21	1:G:1948:ASP:HB3	1.85	0.57
1:G:4994:TYR:O	1:G:4998:LYS:HG2	2.05	0.57
1:A:257:ARG:O	1:A:284:HIS:HE1	1.88	0.56
1:A:1598:GLN:O	1:A:1600:LEU:N	2.33	0.56
1:A:2862:LEU:HD21	1:A:2929:PHE:HD1	1.70	0.56
1:C:495:ASN:HB3	1:C:553:ARG:NH2	2.20	0.56
1:C:4245:MET:SD	1:C:4993:MET:HE1	2.45	0.56
1:E:1288:PHE:HE2	1:E:1460:HIS:HA	1.70	0.56
1:E:4245:MET:SD	1:E:4993:MET:HE1	2.45	0.56
1:G:1190:PRO:HG3	1:G:1226:PHE:CE2	2.36	0.56
1:A:1190:PRO:HG3	1:A:1226:PHE:CE2	2.37	0.56
1:A:2211:MET:HE2	1:A:2232:CYS:SG	2.44	0.56
1:A:2902:HIS:HB3	1:A:2905:LEU:HG	1.87	0.56
1:A:4861:LYS:O	1:A:4875:LYS:NZ	2.39	0.56
1:C:4205:TRP:CZ2	1:C:4986:ALA:HB2	2.40	0.56
1:E:257:ARG:O	1:E:284:HIS:HE1	1.88	0.56
1:E:1616:GLU:HG3	1:E:1617:THR:N	2.20	0.56
1:E:1663:HIS:O	1:E:1666:THR:OG1	2.14	0.56
1:E:4205:TRP:CZ2	1:E:4986:ALA:HB2	2.40	0.56
1:G:1805:GLU:CD	1:G:1808:ARG:HH11	2.13	0.56
1:G:2771:ILE:HD11	1:G:2857:PRO:HD2	1.87	0.56
1:G:4077:PHE:O	1:G:4081:VAL:N	2.38	0.56
1:A:110:ARG:NH1	1:A:115:ARG:HE	2.03	0.56
1:A:1585:LYS:HZ3	1:A:1596:GLU:CD	2.05	0.56
1:A:4686:LEU:O	1:A:4690:GLU:N	2.39	0.56
2:B:87:HIS:HB3	2:B:91:ILE:H	1.69	0.56
1:C:170:ILE:HD11	1:C:199:LEU:HD23	1.86	0.56
1:C:649:PHE:CE1	1:C:689:THR:HG22	2.40	0.56
1:C:1805:GLU:CD	1:C:1808:ARG:HH11	2.13	0.56
1:C:2454:ARG:O	1:C:2458:ARG:HG3	2.04	0.56
1:E:650:VAL:O	1:E:777:PHE:N	2.30	0.56
1:E:1805:GLU:CD	1:E:1808:ARG:HH11	2.13	0.56
1:E:2827:ARG:HB2	1:E:2934:GLY:HA3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4809:PHE:O	1:E:4812:HIS:ND1	2.28	0.56
1:G:37:LEU:HD13	1:G:191:VAL:HG21	1.87	0.56
1:G:110:ARG:NH1	1:G:115:ARG:HE	2.03	0.56
1:G:3805:LEU:O	1:G:3807:GLY:N	2.38	0.56
1:G:4848:VAL:HG23	1:G:4920:PHE:HE1	1.71	0.56
1:A:768:PHE:HB3	1:A:771:PHE:HE1	1.70	0.56
1:A:2259:GLU:HG2	1:A:2297:LYS:HE2	1.87	0.56
1:C:1616:GLU:HG3	1:C:1617:THR:N	2.20	0.56
1:E:2126:ARG:HB2	1:E:2133:GLU:OE1	2.05	0.56
1:E:2551:ASN:O	1:E:2554:LEU:HG	2.05	0.56
1:E:4077:PHE:O	1:E:4081:VAL:N	2.38	0.56
1:G:1616:GLU:HG3	1:G:1617:THR:N	2.20	0.56
1:C:461:HIS:O	1:C:465:GLN:HG2	2.06	0.56
1:C:1731:LEU:HD21	1:C:1948:ASP:HB3	1.86	0.56
1:E:896:VAL:HG13	1:E:903:LEU:HB3	1.88	0.56
1:G:404:ILE:HD13	1:G:481:GLU:HG3	1.86	0.56
1:G:1003:GLN:O	1:G:1016:ARG:N	2.39	0.56
1:G:3786:CYS:SG	1:G:3794:VAL:HG22	2.45	0.56
1:A:2233:CYS:HG	1:A:2271:THR:N	2.04	0.56
1:A:2551:ASN:O	1:A:2554:LEU:HG	2.05	0.56
1:A:2827:ARG:HB2	1:A:2934:GLY:HA3	1.87	0.56
1:C:111:HIS:CD2	1:C:114:SER:H	2.16	0.56
1:C:257:ARG:O	1:C:284:HIS:HE1	1.88	0.56
1:E:461:HIS:O	1:E:465:GLN:HG2	2.06	0.56
1:E:670:GLU:HB3	1:E:788:LYS:HB3	1.87	0.56
1:E:2875:ALA:HB2	1:E:2927:LEU:HD12	1.87	0.56
1:E:3934:TYR:HD1	1:E:3999:MET:HE2	1.70	0.56
1:E:4164:LEU:HD23	1:E:4168:GLU:OE2	2.06	0.56
1:G:232:THR:OG1	1:G:252:VAL:HG21	2.05	0.56
1:G:4956:THR:O	1:G:4965:SER:N	2.38	0.56
1:A:404:ILE:HD13	1:A:481:GLU:HG3	1.86	0.56
1:A:1616:GLU:HG3	1:A:1617:THR:N	2.20	0.56
1:A:2126:ARG:HB2	1:A:2133:GLU:OE1	2.05	0.56
1:A:2248:ARG:NH1	1:A:2285:GLU:OE2	2.39	0.56
1:A:2556:LEU:HA	1:A:2559:LEU:HD13	1.87	0.56
1:A:4013:LEU:O	1:A:4017:LEU:HG	2.06	0.56
1:C:4705:VAL:HG22	1:C:4711:PHE:HD1	1.70	0.56
1:C:4826:ILE:HG23	1:E:4931:ILE:HD11	1.83	0.56
1:E:640:TYR:CE1	1:E:1613:LEU:HD23	2.37	0.56
1:E:768:PHE:HB3	1:E:771:PHE:HE1	1.69	0.56
1:E:1003:GLN:O	1:E:1016:ARG:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1214:PHE:O	1:E:1218:GLY:N	2.37	0.56
1:E:1833:SER:HB2	1:E:1836:PHE:HD2	1.70	0.56
1:E:2358:ILE:HG23	1:G:195:PHE:CD2	2.40	0.56
1:G:16:THR:HB	1:G:98:HIS:HA	1.87	0.56
1:G:4205:TRP:CZ2	1:G:4986:ALA:HB2	2.41	0.56
1:A:523:TYR:CD1	1:A:560:ILE:HG12	2.40	0.56
1:A:1237:TRP:HD1	1:A:1611:HIS:HA	1.71	0.56
1:A:2143:THR:OG1	1:A:3651:ASN:ND2	2.39	0.56
1:C:896:VAL:HG23	1:C:903:LEU:HB3	1.88	0.56
1:C:2827:ARG:HB2	1:C:2934:GLY:HA3	1.88	0.56
1:E:1240:LYS:HG3	1:E:1610:ASN:HD22	1.71	0.56
1:E:1620:ALA:N	1:E:1629:GLN:O	2.33	0.56
1:E:4683:PHE:CE2	1:E:5017:ARG:HD2	2.41	0.56
1:E:4904:PRO:HG3	1:E:4913:ARG:HH11	1.71	0.56
1:G:3840:SER:HB2	1:G:3877:ASP:OD2	2.06	0.56
1:C:1833:SER:HB2	1:C:1836:PHE:HD2	1.70	0.56
1:C:2143:THR:OG1	1:C:3651:ASN:ND2	2.39	0.56
1:C:2862:LEU:HD21	1:C:2929:PHE:HD1	1.71	0.56
1:C:4027:LEU:HD22	1:C:4146:LEU:HD11	1.87	0.56
1:C:4888:TYR:CD1	1:E:4914:VAL:HG23	2.41	0.56
1:E:1190:PRO:HG3	1:E:1226:PHE:CE2	2.36	0.56
1:E:2862:LEU:HD21	1:E:2929:PHE:HD1	1.71	0.56
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.06	0.56
1:G:2756:ASN:OD1	1:G:2806:ARG:NH2	2.38	0.56
1:A:1091:GLU:HG2	1:A:1213:PHE:HB2	1.86	0.56
1:A:4979:THR:O	1:A:4984:ASN:N	2.31	0.56
1:C:670:GLU:HB3	1:C:788:LYS:HB3	1.87	0.56
1:E:4705:VAL:HG22	1:E:4711:PHE:HD1	1.71	0.56
1:G:1240:LYS:HG3	1:G:1610:ASN:HD22	1.71	0.56
1:G:4181:ILE:HG23	1:G:4195:PHE:HE1	1.71	0.56
2:H:27:THR:HG22	2:H:100:ASP:HB3	1.88	0.56
1:A:1805:GLU:CD	1:A:1808:ARG:HH11	2.13	0.55
1:A:4705:VAL:HG22	1:A:4711:PHE:HD1	1.71	0.55
1:C:111:HIS:HD2	1:C:114:SER:N	2.01	0.55
1:C:1237:TRP:HD1	1:C:1611:HIS:HA	1.71	0.55
1:C:4578:LEU:O	1:E:4879:MET:CB	2.54	0.55
1:E:584:LYS:HZ3	1:E:1586:ASN:HD21	1.52	0.55
1:E:2763:HIS:NE2	1:E:2792:ARG:O	2.32	0.55
1:G:641:VAL:HG21	1:G:704:GLY:N	2.21	0.55
1:G:1598:GLN:O	1:G:1600:LEU:N	2.33	0.55
1:A:670:GLU:HB3	1:A:788:LYS:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:LEU:HD13	1:C:191:VAL:HG21	1.87	0.55
1:C:232:THR:OG1	1:C:252:VAL:HG21	2.05	0.55
1:C:640:TYR:CE1	1:C:1613:LEU:HD23	2.37	0.55
1:C:2551:ASN:O	1:C:2554:LEU:HG	2.05	0.55
1:C:2902:HIS:HB3	1:C:2905:LEU:HG	1.86	0.55
1:C:4786:ASP:OD2	1:C:4788:SER:OG	2.07	0.55
1:C:4928:LEU:O	1:C:4931:ILE:HG22	2.06	0.55
1:E:1237:TRP:HD1	1:E:1611:HIS:HA	1.71	0.55
1:E:2556:LEU:HA	1:E:2559:LEU:HD13	1.88	0.55
1:G:103:TYR:CE2	1:G:163:VAL:HA	2.42	0.55
1:G:495:ASN:HB3	1:G:553:ARG:NH2	2.20	0.55
1:A:864:PRO:O	1:A:868:GLU:N	2.33	0.55
1:A:2066:LEU:O	1:A:2069:THR:OG1	2.20	0.55
1:E:4181:ILE:HG23	1:E:4195:PHE:HE1	1.71	0.55
1:G:1288:PHE:HE2	1:G:1460:HIS:HA	1.71	0.55
1:G:1833:SER:HB2	1:G:1836:PHE:HD2	1.70	0.55
1:A:294:THR:HG22	1:A:296:ASP:H	1.71	0.55
1:A:2763:HIS:NE2	1:A:2792:ARG:O	2.32	0.55
1:C:16:THR:HB	1:C:98:HIS:HA	1.87	0.55
1:C:641:VAL:HG21	1:C:704:GLY:N	2.21	0.55
1:C:758:ARG:HH12	1:C:763:PRO:HG3	1.72	0.55
1:C:1003:GLN:O	1:C:1016:ARG:N	2.39	0.55
1:E:37:LEU:HD13	1:E:191:VAL:HG21	1.88	0.55
1:E:103:TYR:CE2	1:E:163:VAL:HA	2.41	0.55
1:E:1237:TRP:CD1	1:E:1611:HIS:HA	2.42	0.55
1:E:2143:THR:OG1	1:E:3651:ASN:ND2	2.39	0.55
1:E:2248:ARG:NH1	1:E:2285:GLU:OE2	2.39	0.55
1:E:2902:HIS:CG	1:E:2903:PRO:HD2	2.41	0.55
1:E:2902:HIS:HB3	1:E:2905:LEU:HG	1.86	0.55
1:G:220:LEU:HD11	1:G:390:LEU:HD22	1.87	0.55
1:G:1201:HIS:CE1	1:G:1203:ASN:HD21	2.24	0.55
1:G:3750:GLU:OE2	1:G:4716:TRP:HA	2.07	0.55
1:A:220:LEU:HD11	1:A:390:LEU:HD22	1.88	0.55
1:A:1088:TRP:HZ3	1:A:1229:ASN:HD21	1.54	0.55
1:A:3891:LEU:HD23	1:A:3899:PHE:CZ	2.41	0.55
1:C:2233:CYS:HG	1:C:2271:THR:N	2.04	0.55
1:C:4164:LEU:HD23	1:C:4168:GLU:OE2	2.06	0.55
1:C:4956:THR:O	1:C:4965:SER:N	2.39	0.55
1:E:294:THR:HG22	1:E:296:ASP:H	1.71	0.55
1:E:1731:LEU:HD21	1:E:1948:ASP:HB3	1.87	0.55
1:E:2094:LEU:O	1:E:2097:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3805:LEU:O	1:E:3807:GLY:N	2.38	0.55
1:E:4889:VAL:H	1:E:4892:ARG:HD3	1.71	0.55
1:G:294:THR:HG22	1:G:296:ASP:H	1.72	0.55
1:G:350:HIS:O	1:G:354:GLY:N	2.28	0.55
1:G:2186:MET:HE1	1:G:2238:TYR:HB3	1.89	0.55
1:G:2902:HIS:CG	1:G:2903:PRO:HD2	2.41	0.55
1:G:3767:GLN:NE2	1:G:3805:LEU:O	2.39	0.55
1:C:2151:ASP:OD2	1:C:2190:VAL:HG23	2.07	0.55
1:C:2922:LYS:O	1:C:2925:GLU:HB3	2.07	0.55
1:C:4683:PHE:CE2	1:C:5017:ARG:HD2	2.41	0.55
1:C:4861:LYS:O	1:C:4875:LYS:NZ	2.40	0.55
1:G:4861:LYS:O	1:G:4875:LYS:NZ	2.39	0.55
1:A:461:HIS:O	1:A:465:GLN:HG2	2.06	0.55
1:A:4027:LEU:HD22	1:A:4146:LEU:HD11	1.87	0.55
1:A:4956:THR:O	1:A:4965:SER:N	2.40	0.55
1:C:1237:TRP:CD1	1:C:1611:HIS:HA	2.42	0.55
1:C:2902:HIS:CG	1:C:2903:PRO:HD2	2.41	0.55
1:C:4013:LEU:O	1:C:4017:LEU:HG	2.06	0.55
1:E:232:THR:OG1	1:E:252:VAL:HG21	2.05	0.55
1:E:592:LYS:HA	1:E:1585:LYS:HE2	1.88	0.55
1:E:595:ARG:HH12	1:E:1641:ILE:CD1	2.20	0.55
1:E:4047:MET:HG3	1:E:4048:LEU:N	2.21	0.55
1:E:4686:LEU:O	1:E:4690:GLU:N	2.39	0.55
1:G:1639:LEU:HD23	1:G:1650:ILE:HG12	1.89	0.55
1:G:3821:LYS:HZ3	1:G:3902:TYR:HD1	1.54	0.55
1:G:4245:MET:SD	1:G:4993:MET:HE1	2.47	0.55
1:A:773:LEU:HA	1:A:777:PHE:HZ	1.72	0.55
1:C:4686:LEU:O	1:C:4690:GLU:N	2.39	0.55
1:E:2186:MET:HE1	1:E:2238:TYR:HB3	1.89	0.55
1:A:1003:GLN:O	1:A:1016:ARG:N	2.39	0.55
1:C:294:THR:HG22	1:C:296:ASP:H	1.72	0.55
1:C:2770:LYS:HG3	1:C:2791:LEU:HD21	1.89	0.55
1:C:4181:ILE:HG23	1:C:4195:PHE:HE1	1.71	0.55
1:E:220:LEU:HD11	1:E:390:LEU:HD22	1.88	0.55
1:G:670:GLU:HB3	1:G:788:LYS:HB3	1.88	0.55
1:G:3949:ARG:O	1:G:3952:SER:OG	2.23	0.55
1:G:4192:ARG:NH1	1:G:5028:PHE:CD2	2.75	0.55
2:H:87:HIS:CD2	2:H:88:PRO:HD2	2.41	0.55
1:C:103:TYR:CE2	1:C:163:VAL:HA	2.41	0.55
1:C:273:HIS:N	1:C:334:MET:O	2.27	0.55
1:C:4904:PRO:HG3	1:C:4913:ARG:HH11	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:758:ARG:HH12	1:E:763:PRO:HG3	1.72	0.55
1:G:592:LYS:HA	1:G:1585:LYS:HE2	1.88	0.55
1:A:758:ARG:HH12	1:A:763:PRO:HG3	1.72	0.54
1:A:4181:ILE:HG23	1:A:4195:PHE:HE1	1.71	0.54
1:C:1201:HIS:CE1	1:C:1203:ASN:HD21	2.24	0.54
1:C:2186:MET:HE1	1:C:2238:TYR:HB3	1.89	0.54
1:C:2257:LEU:HD21	1:C:2275:VAL:HB	1.90	0.54
1:E:1676:LEU:HD12	1:E:1725:ARG:HH11	1.73	0.54
1:E:2770:LYS:HG3	1:E:2791:LEU:HD21	1.89	0.54
1:G:1783:VAL:CG2	2:H:55:VAL:HG12	2.36	0.54
1:G:2556:LEU:HA	1:G:2559:LEU:HD13	1.88	0.54
1:G:3927:GLN:OE1	1:G:3988:ALA:HA	2.07	0.54
1:A:4047:MET:HG3	1:A:4048:LEU:N	2.22	0.54
1:A:4164:LEU:HD23	1:A:4168:GLU:OE2	2.06	0.54
1:C:220:LEU:HD11	1:C:390:LEU:HD22	1.88	0.54
1:C:1639:LEU:HD23	1:C:1650:ILE:HG12	1.89	0.54
1:C:1783:VAL:CG2	2:D:55:VAL:HG12	2.37	0.54
1:E:773:LEU:HA	1:E:777:PHE:HZ	1.72	0.54
1:G:2151:ASP:OD2	1:G:2190:VAL:HG23	2.07	0.54
1:G:2257:LEU:HD21	1:G:2275:VAL:HB	1.89	0.54
1:A:103:TYR:CE2	1:A:163:VAL:HA	2.42	0.54
1:A:2902:HIS:CG	1:A:2903:PRO:HD2	2.41	0.54
1:C:492:ASP:OD1	1:C:546:TRP:NE1	2.40	0.54
1:C:2094:LEU:O	1:C:2097:LEU:HG	2.07	0.54
1:E:442:ILE:HD11	1:E:514:SER:HB3	1.89	0.54
1:E:641:VAL:HG21	1:E:704:GLY:N	2.22	0.54
1:E:699:GLY:H	1:E:703:GLY:HA2	1.72	0.54
1:E:3424:LEU:O	1:E:3427:PRO:N	2.41	0.54
1:E:3972:PRO:HA	1:E:4032:GLU:OE2	2.08	0.54
1:G:442:ILE:HD11	1:G:514:SER:HB3	1.89	0.54
1:A:640:TYR:CE1	1:A:1613:LEU:HD23	2.37	0.54
1:A:641:VAL:HG21	1:A:704:GLY:N	2.22	0.54
1:A:699:GLY:H	1:A:703:GLY:HA2	1.72	0.54
1:A:790:ARG:HD3	1:A:792:LEU:HD21	1.90	0.54
1:A:1240:LYS:HG3	1:A:1610:ASN:HD22	1.71	0.54
1:A:1676:LEU:HD12	1:A:1725:ARG:HH11	1.72	0.54
1:A:1783:VAL:CG2	2:B:55:VAL:HG12	2.37	0.54
1:A:2094:LEU:O	1:A:2097:LEU:HG	2.07	0.54
1:A:4578:LEU:O	1:C:4879:MET:CB	2.55	0.54
1:C:2248:ARG:NH1	1:C:2285:GLU:OE2	2.39	0.54
1:C:3424:LEU:O	1:C:3427:PRO:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3972:PRO:HA	1:C:4032:GLU:OE2	2.07	0.54
1:E:2498:HIS:O	1:E:2501:SER:OG	2.21	0.54
1:E:3920:VAL:HG11	1:E:3983:SER:OG	2.07	0.54
1:G:896:VAL:HG13	1:G:903:LEU:HB3	1.88	0.54
1:G:1237:TRP:CD1	1:G:1611:HIS:HA	2.42	0.54
1:A:37:LEU:HD13	1:A:191:VAL:HG21	1.88	0.54
1:A:2134:LEU:O	1:A:2138:LEU:HG	2.08	0.54
1:A:4888:TYR:CD1	1:C:4914:VAL:HG23	2.42	0.54
1:A:4904:PRO:HG3	1:A:4913:ARG:HH11	1.72	0.54
1:C:215:THR:HG22	1:C:273:HIS:HD2	1.73	0.54
1:C:773:LEU:HA	1:C:777:PHE:HZ	1.73	0.54
1:C:887:ILE:HD11	1:C:907:LEU:HB3	1.90	0.54
1:C:1457:TYR:O	1:C:1458:HIS:ND1	2.41	0.54
1:C:1653:LEU:HA	1:C:1656:ARG:HB2	1.90	0.54
1:C:2277:ALA:O	1:C:2281:ILE:HG13	2.08	0.54
1:C:3920:VAL:HG11	1:C:3983:SER:OG	2.08	0.54
1:E:554:LEU:HG	1:E:593:HIS:CE1	2.43	0.54
1:E:1201:HIS:CE1	1:E:1203:ASN:HD21	2.25	0.54
1:E:1650:ILE:HG23	1:E:1653:LEU:HD12	1.89	0.54
1:E:1783:VAL:CG2	2:F:55:VAL:HG12	2.37	0.54
1:E:2257:LEU:HD21	1:E:2275:VAL:HB	1.89	0.54
1:G:773:LEU:HA	1:G:777:PHE:HZ	1.73	0.54
1:G:4049:VAL:HG21	1:G:4159:ARG:HD2	1.88	0.54
1:A:1237:TRP:CD1	1:A:1611:HIS:HA	2.42	0.54
1:A:2151:ASP:OD2	1:A:2190:VAL:HG23	2.07	0.54
1:A:2257:LEU:HD21	1:A:2275:VAL:HB	1.90	0.54
1:A:3920:VAL:HG11	1:A:3983:SER:OG	2.08	0.54
1:C:1650:ILE:HG23	1:C:1653:LEU:HD12	1.89	0.54
1:E:1079:LYS:HG3	1:E:1237:TRP:CZ3	2.43	0.54
1:E:1639:LEU:HD23	1:E:1650:ILE:HG12	1.89	0.54
1:E:2151:ASP:OD2	1:E:2190:VAL:HG23	2.07	0.54
1:E:4956:THR:O	1:E:4965:SER:N	2.40	0.54
1:G:595:ARG:HH12	1:G:1641:ILE:CD1	2.20	0.54
1:G:3699:HIS:HD2	1:G:3773:ARG:HA	1.72	0.54
1:G:3878:ASP:OD2	1:G:3953:LYS:HG2	2.07	0.54
1:A:1079:LYS:HG3	1:A:1237:TRP:CZ3	2.43	0.54
1:C:595:ARG:HH12	1:C:1641:ILE:CD1	2.20	0.54
1:C:1240:LYS:HG3	1:C:1610:ASN:HD22	1.72	0.54
1:C:3882:GLN:HB2	1:C:3957:VAL:HG22	1.90	0.54
1:G:1237:TRP:HD1	1:G:1611:HIS:HA	1.71	0.54
1:G:1961:PHE:HZ	1:G:2063:LEU:HD23	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4979:THR:O	1:G:4984:ASN:N	2.40	0.54
1:A:2186:MET:HE1	1:A:2238:TYR:HB3	1.89	0.54
1:A:3897:ASN:O	1:A:3901:ASN:ND2	2.40	0.54
1:A:3972:PRO:HA	1:A:4032:GLU:OE2	2.08	0.54
1:C:592:LYS:HA	1:C:1585:LYS:HE2	1.88	0.54
1:E:1288:PHE:CE2	1:E:1460:HIS:HA	2.42	0.54
1:E:1295:VAL:HG22	1:E:1548:LEU:N	2.23	0.54
1:E:2803:GLU:HA	1:E:2806:ARG:HB2	1.90	0.54
1:E:4860:ARG:HB2	1:E:4877:ASP:OD1	2.08	0.54
1:E:4861:LYS:O	1:E:4875:LYS:NZ	2.40	0.54
2:F:38:SER:HB3	2:F:41:ASP:CG	2.33	0.54
1:G:1288:PHE:CE2	1:G:1460:HIS:HA	2.43	0.54
1:G:4974:GLY:O	1:G:4977:THR:OG1	2.22	0.54
1:A:102:LEU:HD12	1:A:105:HIS:HE2	1.72	0.54
1:A:375:LYS:NZ	1:A:376:ALA:O	2.35	0.54
1:A:1255:TYR:HD1	1:A:1279:SER:HB3	1.73	0.54
1:C:711:LEU:HD23	1:C:712:TYR:N	2.23	0.54
1:C:884:LEU:HB2	1:C:967:PRO:HG2	1.90	0.54
1:C:1295:VAL:HG22	1:C:1548:LEU:N	2.23	0.54
1:C:1676:LEU:HD12	1:C:1725:ARG:HH11	1.73	0.54
1:C:1815:LEU:HD11	1:C:1845:VAL:HG11	1.90	0.54
1:C:3767:GLN:NE2	1:C:3805:LEU:O	2.41	0.54
2:D:38:SER:HB3	2:D:41:ASP:CG	2.33	0.54
1:E:350:HIS:O	1:E:354:GLY:N	2.28	0.54
1:E:4844:LEU:HD21	1:E:4891:VAL:HG21	1.89	0.54
1:G:554:LEU:HG	1:G:593:HIS:CE1	2.43	0.54
1:G:874:LEU:O	1:G:878:ILE:N	2.38	0.54
1:G:2094:LEU:O	1:G:2097:LEU:HG	2.07	0.54
1:G:4661:TYR:OH	1:G:4788:SER:OG	2.24	0.54
1:A:554:LEU:HG	1:A:593:HIS:CE1	2.43	0.54
1:A:1201:HIS:CE1	1:A:1203:ASN:HD21	2.26	0.54
1:A:1929:MET:HG3	1:A:1930:LYS:O	2.08	0.54
1:A:2922:LYS:HA	1:A:2925:GLU:OE1	2.08	0.54
1:A:3971:GLY:O	1:A:3973:CYS:N	2.38	0.54
1:A:4026:MET:HG3	1:A:4027:LEU:N	2.23	0.54
2:B:87:HIS:CD2	2:B:88:PRO:HD2	2.41	0.54
1:C:1252:HIS:ND1	1:C:1253:PRO:HD2	2.23	0.54
1:C:1585:LYS:HZ3	1:C:1596:GLU:CD	2.06	0.54
1:C:4047:MET:HG3	1:C:4048:LEU:N	2.22	0.54
1:E:674:PHE:HZ	2:F:100:ASP:OD2	1.91	0.54
1:G:2333:ASP:O	1:G:2336:ARG:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4138:ASP:O	1:G:4142:ASN:ND2	2.38	0.54
1:A:442:ILE:HD11	1:A:514:SER:HB3	1.89	0.53
1:A:896:VAL:HG13	1:A:903:LEU:HB3	1.88	0.53
1:A:3424:LEU:O	1:A:3427:PRO:N	2.41	0.53
1:A:4683:PHE:CE2	1:A:5017:ARG:HD2	2.42	0.53
2:B:37:ASP:OD1	2:B:38:SER:N	2.42	0.53
1:C:110:ARG:NH1	1:C:115:ARG:HE	2.05	0.53
1:C:790:ARG:HD3	1:C:792:LEU:HD21	1.90	0.53
1:C:3878:ASP:OD2	1:C:3953:LYS:HG2	2.08	0.53
1:E:33:LEU:HA	1:E:53:SER:HB3	1.90	0.53
1:E:215:THR:HG22	1:E:273:HIS:HD2	1.72	0.53
1:E:492:ASP:OD1	1:E:546:TRP:NE1	2.40	0.53
1:E:3775:ALA:O	1:E:3778:MET:HG2	2.08	0.53
1:G:111:HIS:CD2	1:G:113:HIS:HB3	2.43	0.53
1:G:1815:LEU:HD11	1:G:1845:VAL:HG11	1.89	0.53
1:G:1929:MET:HG3	1:G:1930:LYS:O	2.08	0.53
1:G:4825:THR:O	1:G:4829:SER:N	2.40	0.53
1:A:674:PHE:HZ	2:B:100:ASP:OD2	1.90	0.53
1:A:711:LEU:HD23	1:A:712:TYR:N	2.23	0.53
1:A:720:HIS:HB3	1:A:729:PRO:HA	1.90	0.53
1:C:2066:LEU:O	1:C:2069:THR:OG1	2.20	0.53
1:E:1653:LEU:HA	1:E:1656:ARG:HB2	1.90	0.53
1:E:2277:ALA:O	1:E:2281:ILE:HG13	2.08	0.53
1:G:887:ILE:HD11	1:G:907:LEU:HB3	1.89	0.53
1:G:3371:LYS:O	1:G:3375:GLU:N	2.41	0.53
1:G:3647:HIS:CE1	1:G:3648:ARG:HG3	2.43	0.53
1:A:111:HIS:CD2	1:A:113:HIS:HB3	2.43	0.53
1:A:266:ARG:NH1	1:A:330:ASP:HA	2.23	0.53
1:A:592:LYS:HA	1:A:1585:LYS:HE2	1.88	0.53
1:A:887:ILE:HD11	1:A:907:LEU:HB3	1.91	0.53
1:A:1130:GLN:HA	1:A:1139:PHE:HB3	1.91	0.53
1:A:1295:VAL:HG22	1:A:1548:LEU:N	2.23	0.53
1:A:1712:TYR:HD2	1:A:1840:PRO:HB2	1.74	0.53
1:C:284:HIS:HD2	1:C:287:THR:H	1.56	0.53
1:C:1079:LYS:HG3	1:C:1237:TRP:CZ3	2.43	0.53
2:D:37:ASP:OD1	2:D:38:SER:N	2.41	0.53
1:E:711:LEU:HD23	1:E:712:TYR:N	2.23	0.53
1:E:720:HIS:HB3	1:E:729:PRO:HA	1.90	0.53
1:E:3971:GLY:O	1:E:3973:CYS:N	2.38	0.53
1:E:4852:THR:HG21	1:E:4883:TYR:HB2	1.90	0.53
1:G:36:CYS:HB2	1:G:50:GLU:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:214:VAL:HG22	1:G:341:TYR:CZ	2.44	0.53
1:G:1079:LYS:HG3	1:G:1237:TRP:CZ3	2.43	0.53
1:G:4786:ASP:OD2	1:G:4788:SER:OG	2.08	0.53
1:A:595:ARG:HH12	1:A:1641:ILE:CD1	2.21	0.53
1:A:1100:MET:HE2	1:A:1192:CYS:HB2	1.90	0.53
1:A:1637:MET:HB2	1:A:1696:HIS:CD2	2.44	0.53
1:A:1650:ILE:HG23	1:A:1653:LEU:HD12	1.89	0.53
1:A:2770:LYS:HB3	1:A:2775:TRP:HB2	1.91	0.53
1:A:4192:ARG:NH1	1:A:5028:PHE:CD2	2.77	0.53
1:C:1637:MET:HB2	1:C:1696:HIS:CD2	2.44	0.53
1:C:3775:ALA:O	1:C:3778:MET:HG2	2.08	0.53
1:C:3906:GLN:NE2	1:C:3913:ILE:O	2.40	0.53
1:E:110:ARG:NH1	1:E:115:ARG:HE	2.06	0.53
1:E:1815:LEU:HD11	1:E:1845:VAL:HG11	1.90	0.53
1:E:1848:LEU:O	1:E:1851:MET:HB3	2.09	0.53
1:E:3897:ASN:O	1:E:3901:ASN:ND2	2.40	0.53
1:G:1255:TYR:HD1	1:G:1279:SER:HB3	1.74	0.53
1:G:2233:CYS:HG	1:G:2271:THR:N	2.05	0.53
1:G:2248:ARG:NH1	1:G:2285:GLU:OE2	2.39	0.53
1:G:2902:HIS:HB3	1:G:2905:LEU:HG	1.89	0.53
2:H:37:ASP:OD1	2:H:38:SER:N	2.41	0.53
1:A:492:ASP:OD1	1:A:546:TRP:NE1	2.40	0.53
1:A:721:LEU:HD22	1:A:767:VAL:HG13	1.91	0.53
1:A:831:ARG:O	1:A:838:HIS:ND1	2.36	0.53
1:A:2770:LYS:HG3	1:A:2791:LEU:HD21	1.90	0.53
1:A:2803:GLU:HA	1:A:2806:ARG:HB2	1.90	0.53
1:A:4809:PHE:O	1:A:4812:HIS:ND1	2.27	0.53
2:B:38:SER:HB3	2:B:41:ASP:CG	2.33	0.53
1:C:4192:ARG:NH1	1:C:5028:PHE:CD2	2.77	0.53
1:E:284:HIS:HD2	1:E:287:THR:H	1.55	0.53
1:E:887:ILE:HD11	1:E:907:LEU:HB3	1.90	0.53
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.08	0.53
1:E:2142:TYR:CD2	1:E:2197:LEU:HB2	2.44	0.53
1:E:2333:ASP:O	1:E:2336:ARG:HB3	2.09	0.53
1:E:3842:LEU:HD21	1:E:3933:PHE:CD1	2.44	0.53
2:F:87:HIS:CD2	2:F:88:PRO:HD2	2.41	0.53
1:G:1457:TYR:O	1:G:1458:HIS:CG	2.62	0.53
1:G:1650:ILE:HG23	1:G:1653:LEU:HD12	1.90	0.53
1:G:1712:TYR:HD2	1:G:1840:PRO:HB2	1.73	0.53
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.09	0.53
1:A:33:LEU:HA	1:A:53:SER:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:66:CYS:HB2	1:A:112:ALA:HB2	1.90	0.53
1:A:3771:HIS:CG	1:A:3812:VAL:HG22	2.44	0.53
1:C:1772:ARG:NH1	1:C:1952:GLN:NE2	2.57	0.53
1:C:2134:LEU:O	1:C:2138:LEU:HG	2.08	0.53
1:C:2803:GLU:HA	1:C:2806:ARG:HB2	1.90	0.53
1:E:283:ARG:HG2	1:E:284:HIS:O	2.09	0.53
1:E:375:LYS:HZ1	1:E:377:ILE:HG22	1.73	0.53
1:E:1929:MET:HG3	1:E:1930:LYS:O	2.08	0.53
1:E:3767:GLN:NE2	1:E:3805:LEU:O	2.41	0.53
1:E:3891:LEU:HD23	1:E:3899:PHE:CZ	2.42	0.53
1:G:1214:PHE:O	1:G:1218:GLY:N	2.37	0.53
1:G:1295:VAL:HG22	1:G:1548:LEU:N	2.23	0.53
1:G:1676:LEU:HD12	1:G:1725:ARG:HH11	1.73	0.53
1:G:2774:ASN:HA	1:G:2852:ARG:HG2	1.90	0.53
1:G:2803:GLU:HA	1:G:2806:ARG:HB2	1.89	0.53
1:A:1024:TYR:HA	1:A:1027:LEU:HG	1.91	0.53
1:A:1252:HIS:ND1	1:A:1253:PRO:HD2	2.23	0.53
1:A:1815:LEU:HD11	1:A:1845:VAL:HG11	1.90	0.53
1:A:2114:PRO:HD3	1:A:3707:ARG:NH1	2.23	0.53
1:A:2277:ALA:O	1:A:2281:ILE:HG13	2.08	0.53
1:A:3882:GLN:HB2	1:A:3957:VAL:HG22	1.91	0.53
1:C:33:LEU:HA	1:C:53:SER:HB3	1.91	0.53
1:C:554:LEU:HG	1:C:593:HIS:CE1	2.43	0.53
1:C:3842:LEU:HD21	1:C:3933:PHE:CD1	2.44	0.53
1:E:111:HIS:CD2	1:E:113:HIS:HB3	2.44	0.53
1:E:1252:HIS:ND1	1:E:1253:PRO:HD2	2.24	0.53
1:E:1806:ALA:O	1:E:1810:LYS:HG2	2.09	0.53
2:F:37:ASP:OD1	2:F:38:SER:N	2.42	0.53
1:G:284:HIS:HD2	1:G:287:THR:H	1.56	0.53
1:G:650:VAL:N	1:G:777:PHE:O	2.42	0.53
1:G:758:ARG:HH12	1:G:763:PRO:HG3	1.73	0.53
1:G:4727:LYS:HZ2	1:G:4728:HIS:CE1	2.27	0.53
1:A:1214:PHE:CZ	1:A:1219:LEU:HB2	2.43	0.53
1:A:1772:ARG:NH1	1:A:1952:GLN:NE2	2.56	0.53
1:A:3842:LEU:HB3	1:A:3929:SER:OG	2.09	0.53
1:C:1130:GLN:HA	1:C:1139:PHE:HB3	1.91	0.53
1:C:1737:PRO:HB3	1:C:2149:VAL:HG11	1.91	0.53
1:C:1848:LEU:O	1:C:1851:MET:HB3	2.09	0.53
1:C:3771:HIS:CG	1:C:3812:VAL:HG22	2.44	0.53
1:C:4026:MET:HG3	1:C:4027:LEU:N	2.23	0.53
1:E:102:LEU:HD12	1:E:105:HIS:HE2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:266:ARG:NH1	1:E:330:ASP:HA	2.23	0.53
1:E:448:LEU:HD12	1:E:525:LEU:HD11	1.91	0.53
1:E:1961:PHE:HZ	1:E:2063:LEU:HD23	1.74	0.53
1:E:3878:ASP:OD2	1:E:3953:LYS:HG2	2.08	0.53
1:G:1772:ARG:NH1	1:G:1952:GLN:NE2	2.56	0.53
1:G:1806:ALA:O	1:G:1810:LYS:HG2	2.09	0.53
1:G:2277:ALA:O	1:G:2281:ILE:HG13	2.08	0.53
1:G:3993:LEU:O	1:G:3997:ALA:N	2.40	0.53
1:A:284:HIS:HD2	1:A:287:THR:H	1.56	0.53
1:A:895:PRO:HA	1:A:905:PRO:HB3	1.91	0.53
1:A:3767:GLN:NE2	1:A:3805:LEU:O	2.41	0.53
1:A:3842:LEU:HD21	1:A:3933:PHE:CD1	2.44	0.53
1:C:111:HIS:CD2	1:C:113:HIS:HB3	2.44	0.53
1:C:448:LEU:HD12	1:C:525:LEU:HD11	1.91	0.53
1:C:1024:TYR:HA	1:C:1027:LEU:HG	1.91	0.53
1:C:1255:TYR:HD1	1:C:1279:SER:HB3	1.74	0.53
1:C:3891:LEU:HD23	1:C:3899:PHE:CZ	2.42	0.53
1:C:4124:ASN:OD1	1:C:4125:PHE:N	2.42	0.53
1:C:4679:ARG:HA	1:C:4682:GLU:HG2	1.91	0.53
1:E:650:VAL:N	1:E:777:PHE:O	2.42	0.53
1:E:1024:TYR:HA	1:E:1027:LEU:HG	1.91	0.53
1:E:1076:ARG:HH12	1:E:1111:PRO:HB3	1.74	0.53
1:E:1252:HIS:CG	1:E:1253:PRO:HD2	2.44	0.53
1:E:1255:TYR:HD1	1:E:1279:SER:HB3	1.74	0.53
1:E:3795:SER:O	1:E:3799:LYS:HG2	2.09	0.53
1:E:4679:ARG:HA	1:E:4682:GLU:HG2	1.91	0.53
1:G:35:LEU:HD21	1:G:182:LEU:HD11	1.91	0.53
1:G:492:ASP:OD1	1:G:546:TRP:NE1	2.40	0.53
1:G:843:SER:OG	1:G:844:ARG:N	2.41	0.53
1:G:1252:HIS:CG	1:G:1253:PRO:HD2	2.44	0.53
1:G:3775:ALA:HA	1:G:3778:MET:HG2	1.91	0.53
1:A:1961:PHE:CG	1:A:2066:LEU:HD13	2.44	0.53
1:A:3775:ALA:O	1:A:3778:MET:HG2	2.09	0.53
1:C:720:HIS:HB3	1:C:729:PRO:HA	1.90	0.53
1:C:1100:MET:HE2	1:C:1192:CYS:HB2	1.91	0.53
1:C:1214:PHE:O	1:C:1218:GLY:N	2.37	0.53
1:C:1961:PHE:CG	1:C:2066:LEU:HD13	2.44	0.53
1:C:2114:PRO:HD3	1:C:3707:ARG:NH1	2.24	0.53
1:E:35:LEU:HD21	1:E:182:LEU:HD11	1.91	0.53
1:E:3821:LYS:HZ3	1:E:3902:TYR:HD1	1.56	0.53
1:G:790:ARG:HD3	1:G:792:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:895:PRO:HA	1:G:905:PRO:HB3	1.91	0.53
1:G:1252:HIS:ND1	1:G:1253:PRO:HD2	2.24	0.53
1:G:1667:LEU:HD23	1:G:1710:GLY:C	2.34	0.53
1:G:2763:HIS:NE2	1:G:2792:ARG:O	2.34	0.53
1:G:4806:ASN:O	1:G:4809:PHE:HB3	2.08	0.53
1:A:884:LEU:HB2	1:A:967:PRO:HG2	1.91	0.52
1:A:1436:SER:HA	1:A:1516:ILE:HA	1.92	0.52
1:A:1639:LEU:HD23	1:A:1650:ILE:HG12	1.89	0.52
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.09	0.52
1:C:1929:MET:HG3	1:C:1930:LYS:O	2.08	0.52
1:E:842:PRO:O	1:E:1197:GLY:N	2.43	0.52
1:E:895:PRO:HA	1:E:905:PRO:HB3	1.91	0.52
1:E:1637:MET:HB2	1:E:1696:HIS:CD2	2.44	0.52
1:E:1961:PHE:CG	1:E:2066:LEU:HD13	2.44	0.52
1:E:2233:CYS:HG	1:E:2271:THR:N	2.06	0.52
1:E:2340:PHE:HB2	1:E:2435:ARG:HD3	1.92	0.52
1:E:3771:HIS:CG	1:E:3812:VAL:HG22	2.44	0.52
1:G:711:LEU:HD23	1:G:712:TYR:N	2.23	0.52
1:G:1637:MET:HB2	1:G:1696:HIS:CD2	2.44	0.52
1:G:1653:LEU:HA	1:G:1656:ARG:HB2	1.90	0.52
1:A:1252:HIS:CG	1:A:1253:PRO:HD2	2.44	0.52
1:A:4852:THR:HG21	1:A:4883:TYR:HB2	1.91	0.52
1:C:842:PRO:O	1:C:1197:GLY:N	2.43	0.52
1:C:1252:HIS:CG	1:C:1253:PRO:HD2	2.44	0.52
1:C:2774:ASN:HA	1:C:2852:ARG:HG2	1.91	0.52
1:C:4860:ARG:HB2	1:C:4877:ASP:OD1	2.08	0.52
1:E:1712:TYR:HD2	1:E:1840:PRO:HB2	1.73	0.52
1:E:4026:MET:HG3	1:E:4027:LEU:N	2.23	0.52
1:E:4192:ARG:NH1	1:E:5028:PHE:CD2	2.76	0.52
1:G:2114:PRO:HD3	1:G:3707:ARG:NH1	2.24	0.52
1:G:2770:LYS:HB3	1:G:2775:TRP:HB2	1.92	0.52
1:G:3827:GLY:HA2	1:G:3830:GLN:HB3	1.90	0.52
1:G:4674:GLU:O	1:G:4678:ALA:N	2.35	0.52
1:A:215:THR:HG22	1:A:273:HIS:HD2	1.75	0.52
1:A:283:ARG:HG2	1:A:284:HIS:O	2.09	0.52
1:A:842:PRO:O	1:A:1197:GLY:N	2.43	0.52
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.09	0.52
1:A:1848:LEU:O	1:A:1851:MET:HB3	2.09	0.52
1:A:4124:ASN:OD1	1:A:4125:PHE:N	2.42	0.52
1:A:4860:ARG:HB2	1:A:4877:ASP:OD1	2.09	0.52
1:A:4889:VAL:H	1:A:4892:ARG:HD3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4914:VAL:HG23	1:G:4888:TYR:CD1	2.45	0.52
1:C:721:LEU:HD22	1:C:767:VAL:HG13	1.91	0.52
1:C:1667:LEU:HD23	1:C:1710:GLY:C	2.34	0.52
1:C:1961:PHE:HZ	1:C:2063:LEU:HD23	1.74	0.52
1:C:4852:THR:HG21	1:C:4883:TYR:HB2	1.92	0.52
1:G:33:LEU:HA	1:G:53:SER:HB3	1.91	0.52
1:G:448:LEU:HD12	1:G:525:LEU:HD11	1.91	0.52
1:G:864:PRO:O	1:G:868:GLU:N	2.32	0.52
1:G:1024:TYR:HA	1:G:1027:LEU:HG	1.91	0.52
1:G:1292:SER:OG	1:G:1598:GLN:O	2.23	0.52
1:A:214:VAL:HG22	1:A:341:TYR:CZ	2.44	0.52
1:C:36:CYS:HB2	1:C:50:GLU:HB3	1.91	0.52
1:C:442:ILE:HD11	1:C:514:SER:HB3	1.91	0.52
1:C:674:PHE:HZ	2:D:100:ASP:OD2	1.91	0.52
1:C:2123:LEU:HA	1:C:2126:ARG:HG2	1.91	0.52
1:C:2333:ASP:O	1:C:2336:ARG:HB3	2.09	0.52
1:C:2770:LYS:HB3	1:C:2775:TRP:HB2	1.91	0.52
1:E:705:ASN:ND2	1:E:782:SER:OG	2.43	0.52
1:E:790:ARG:HD3	1:E:792:LEU:HD21	1.90	0.52
1:E:2114:PRO:HD3	1:E:3707:ARG:NH1	2.24	0.52
1:E:4124:ASN:OD1	1:E:4125:PHE:N	2.42	0.52
1:G:1076:ARG:HH12	1:G:1111:PRO:HB3	1.74	0.52
1:G:1130:GLN:HA	1:G:1139:PHE:HB3	1.91	0.52
1:G:1947:CYS:SG	1:G:2126:ARG:NE	2.83	0.52
1:G:2137:ALA:HA	1:G:2140:ARG:HH21	1.75	0.52
1:A:1292:SER:OG	1:A:1598:GLN:O	2.23	0.52
1:A:3795:SER:O	1:A:3799:LYS:HG2	2.09	0.52
1:A:4899:ASP:H	1:G:4892:ARG:HH12	1.52	0.52
1:C:283:ARG:HG2	1:C:284:HIS:O	2.09	0.52
1:C:445:LEU:HD23	1:C:521:LEU:HB2	1.92	0.52
1:C:805:PRO:O	1:C:807:GLY:N	2.43	0.52
1:C:895:PRO:HA	1:C:905:PRO:HB3	1.92	0.52
1:C:3897:ASN:O	1:C:3901:ASN:ND2	2.40	0.52
1:C:4721:LYS:HD3	1:C:4741:LEU:HB3	1.92	0.52
1:E:1667:LEU:HD23	1:E:1710:GLY:C	2.35	0.52
1:E:4655:PHE:O	1:E:4658:ILE:HG13	2.10	0.52
1:G:842:PRO:O	1:G:1197:GLY:N	2.43	0.52
1:G:2142:TYR:CD2	1:G:2197:LEU:HB2	2.44	0.52
1:G:2340:PHE:HB2	1:G:2435:ARG:HD3	1.92	0.52
1:G:2770:LYS:HG3	1:G:2791:LEU:HD21	1.90	0.52
1:G:4687:TYR:OH	1:G:4699:GLY:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4721:LYS:HD3	1:A:4741:LEU:HB3	1.92	0.52
1:C:3842:LEU:HB3	1:C:3929:SER:OG	2.09	0.52
1:C:3971:GLY:O	1:C:3973:CYS:N	2.38	0.52
1:C:4994:TYR:O	1:C:4998:LYS:HG2	2.10	0.52
1:E:332:GLU:N	1:E:333:GLY:HA3	2.24	0.52
1:E:884:LEU:HB2	1:E:967:PRO:HG2	1.91	0.52
1:E:2924:GLN:O	1:E:2928:LYS:HB2	2.10	0.52
1:E:4994:TYR:O	1:E:4998:LYS:HG2	2.10	0.52
1:G:102:LEU:HD12	1:G:105:HIS:HE2	1.74	0.52
1:G:721:LEU:HD22	1:G:767:VAL:HG13	1.91	0.52
1:A:36:CYS:HB2	1:A:50:GLU:HB3	1.92	0.52
1:A:1596:GLU:HB2	1:A:1599:MET:HG2	1.92	0.52
1:A:1653:LEU:HA	1:A:1656:ARG:HB2	1.90	0.52
1:A:3878:ASP:OD2	1:A:3953:LYS:HG2	2.09	0.52
1:C:266:ARG:NH1	1:C:330:ASP:HA	2.23	0.52
1:C:1108:GLU:HG3	1:C:1186:ASP:OD2	2.10	0.52
1:C:2129:ASP:OD1	1:C:2132:GLY:N	2.42	0.52
1:C:4794:TRP:HA	1:C:4797:VAL:HG12	1.91	0.52
1:E:1130:GLN:HA	1:E:1139:PHE:HB3	1.91	0.52
1:E:3842:LEU:HB3	1:E:3929:SER:OG	2.09	0.52
1:G:215:THR:HG22	1:G:273:HIS:HD2	1.75	0.52
1:G:705:ASN:ND2	1:G:782:SER:OG	2.43	0.52
1:G:884:LEU:HB2	1:G:967:PRO:HG2	1.91	0.52
1:G:3770:LEU:O	1:G:3775:ALA:HB3	2.10	0.52
1:A:1131:ARG:HD3	1:A:1139:PHE:CD1	2.45	0.52
1:A:2123:LEU:HA	1:A:2126:ARG:HG2	1.90	0.52
1:A:3963:ASN:O	1:A:3966:THR:OG1	2.24	0.52
1:A:4679:ARG:HA	1:A:4682:GLU:HG2	1.91	0.52
1:C:332:GLU:N	1:C:333:GLY:HA3	2.24	0.52
1:C:699:GLY:H	1:C:703:GLY:HA2	1.74	0.52
1:C:2142:TYR:CD2	1:C:2197:LEU:HB2	2.44	0.52
1:C:3750:GLU:OE2	1:C:4716:TRP:HA	2.10	0.52
1:C:4889:VAL:H	1:C:4892:ARG:HD3	1.74	0.52
1:C:4979:THR:OG1	1:C:4980:LEU:N	2.43	0.52
1:E:23:GLN:HE22	1:E:267:ILE:HG21	1.75	0.52
1:E:214:VAL:HG22	1:E:341:TYR:CZ	2.44	0.52
1:E:1100:MET:HE2	1:E:1192:CYS:HB2	1.91	0.52
1:E:4794:TRP:HA	1:E:4797:VAL:HG12	1.91	0.52
1:G:157:ARG:NE	1:G:167:ASP:OD2	2.43	0.52
1:G:489:ASN:HB3	1:G:493:ARG:NH1	2.25	0.52
1:G:720:HIS:HB3	1:G:729:PRO:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2891:LYS:HG2	1:G:2905:LEU:HD13	1.92	0.52
1:A:23:GLN:HE22	1:A:267:ILE:HG21	1.75	0.52
1:A:843:SER:OG	1:A:844:ARG:N	2.41	0.52
1:A:1667:LEU:HD23	1:A:1710:GLY:C	2.35	0.52
1:A:1737:PRO:HB3	1:A:2149:VAL:HG11	1.91	0.52
1:A:2142:TYR:CD2	1:A:2197:LEU:HB2	2.44	0.52
1:C:1131:ARG:HD3	1:C:1139:PHE:CD1	2.45	0.52
1:C:2340:PHE:HB2	1:C:2435:ARG:HD3	1.91	0.52
1:C:3795:SER:O	1:C:3799:LYS:HG2	2.09	0.52
1:E:445:LEU:HD23	1:E:521:LEU:HB2	1.92	0.52
1:E:1772:ARG:NH1	1:E:1952:GLN:NE2	2.56	0.52
1:E:2123:LEU:HA	1:E:2126:ARG:HG2	1.90	0.52
1:E:4721:LYS:HD3	1:E:4741:LEU:HB3	1.92	0.52
1:G:283:ARG:HG2	1:G:284:HIS:O	2.10	0.52
1:G:864:PRO:HG2	1:G:867:LEU:HB2	1.92	0.52
1:G:1100:MET:HE2	1:G:1192:CYS:HB2	1.91	0.52
1:G:1629:GLN:HE21	1:G:1631:GLN:HG3	1.75	0.52
1:G:1848:LEU:O	1:G:1851:MET:HB3	2.09	0.52
1:G:3835:LEU:HD22	1:G:3884:LEU:HD13	1.92	0.52
1:G:3878:ASP:HA	1:G:3881:THR:HG23	1.92	0.52
1:A:111:HIS:CD2	1:A:114:SER:H	2.17	0.52
1:A:332:GLU:N	1:A:333:GLY:HA3	2.24	0.52
1:A:445:LEU:HD23	1:A:521:LEU:HB2	1.92	0.52
1:A:1108:GLU:HG3	1:A:1186:ASP:OD2	2.10	0.52
1:A:1242:LEU:HD22	1:A:1458:HIS:HB3	1.91	0.52
1:A:1802:ILE:HG13	1:A:1804:LEU:HD12	1.92	0.52
1:A:2333:ASP:O	1:A:2336:ARG:HB3	2.09	0.52
1:A:2340:PHE:HB2	1:A:2435:ARG:HD3	1.91	0.52
1:A:4994:TYR:O	1:A:4998:LYS:HG2	2.10	0.52
1:C:650:VAL:N	1:C:777:PHE:O	2.42	0.52
1:C:1076:ARG:HH12	1:C:1111:PRO:HB3	1.74	0.52
1:E:1620:ALA:O	1:E:1629:GLN:N	2.35	0.52
1:E:3750:GLU:OE2	1:E:4716:TRP:HA	2.10	0.52
1:E:3882:GLN:HB2	1:E:3957:VAL:HG22	1.91	0.52
1:G:2143:THR:OG1	1:G:3651:ASN:ND2	2.43	0.52
1:A:1076:ARG:HH12	1:A:1111:PRO:HB3	1.74	0.51
1:A:1961:PHE:HZ	1:A:2063:LEU:HD23	1.74	0.51
1:A:4738:ALA:O	1:A:4742:GLY:N	2.43	0.51
1:C:35:LEU:HD21	1:C:182:LEU:HD11	1.91	0.51
1:C:102:LEU:HD12	1:C:105:HIS:HE2	1.74	0.51
1:C:157:ARG:NE	1:C:167:ASP:OD2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:375:LYS:HZ1	1:C:377:ILE:HG22	1.74	0.51
1:C:4655:PHE:O	1:C:4658:ILE:HG13	2.10	0.51
1:C:4807:PHE:HB3	1:E:4857:ASN:HD21	1.75	0.51
1:C:4864:ASN:HA	1:C:4875:LYS:HG2	1.92	0.51
1:E:375:LYS:NZ	1:E:376:ALA:O	2.35	0.51
1:E:437:PRO:O	1:E:441:VAL:HG23	2.10	0.51
1:E:2066:LEU:O	1:E:2069:THR:OG1	2.20	0.51
1:E:2162:ILE:HD13	1:E:2178:MET:HG3	1.92	0.51
1:G:111:HIS:CD2	1:G:114:SER:H	2.17	0.51
1:G:1436:SER:N	1:G:1516:ILE:CG1	2.73	0.51
1:G:3972:PRO:HA	1:G:4032:GLU:OE2	2.10	0.51
1:A:35:LEU:HD21	1:A:182:LEU:HD11	1.91	0.51
1:A:448:LEU:HD12	1:A:525:LEU:HD11	1.91	0.51
1:A:650:VAL:N	1:A:777:PHE:O	2.42	0.51
1:A:2774:ASN:HA	1:A:2852:ARG:HG2	1.91	0.51
1:A:3934:TYR:OH	1:A:3998:HIS:HB3	2.10	0.51
1:A:4794:TRP:HA	1:A:4797:VAL:HG12	1.91	0.51
1:A:4823:LEU:CD1	1:C:4839:MET:HB3	2.39	0.51
1:C:4738:ALA:O	1:C:4742:GLY:N	2.43	0.51
1:E:721:LEU:HD22	1:E:767:VAL:HG13	1.91	0.51
1:E:2770:LYS:HB3	1:E:2775:TRP:HB2	1.91	0.51
1:E:2774:ASN:HA	1:E:2852:ARG:HG2	1.91	0.51
1:G:23:GLN:HE22	1:G:267:ILE:HG21	1.75	0.51
1:G:445:LEU:HD23	1:G:521:LEU:HB2	1.92	0.51
1:G:699:GLY:H	1:G:703:GLY:HA2	1.74	0.51
1:G:3934:TYR:OH	1:G:3998:HIS:HB3	2.10	0.51
1:G:4697:VAL:O	1:G:4701:TRP:N	2.42	0.51
1:A:4655:PHE:O	1:A:4658:ILE:HG13	2.10	0.51
1:C:663:TYR:HB3	1:C:808:TYR:CD1	2.46	0.51
1:C:3934:TYR:OH	1:C:3998:HIS:HB3	2.10	0.51
1:E:594:GLY:H	1:E:1598:GLN:CG	2.24	0.51
1:E:805:PRO:O	1:E:807:GLY:N	2.44	0.51
1:E:1108:GLU:HG3	1:E:1186:ASP:OD2	2.10	0.51
1:E:3647:HIS:CE1	1:E:3648:ARG:HG3	2.46	0.51
1:E:3794:VAL:O	1:E:3797:THR:OG1	2.25	0.51
1:G:4727:LYS:NZ	1:G:4728:HIS:CE1	2.79	0.51
1:G:4849:TYR:O	1:G:4852:THR:HG22	2.09	0.51
1:A:375:LYS:HZ1	1:A:377:ILE:HG22	1.75	0.51
1:A:663:TYR:HB3	1:A:808:TYR:CD1	2.46	0.51
1:A:1648:MET:HE3	1:A:1656:ARG:HG3	1.92	0.51
1:C:214:VAL:HG22	1:C:341:TYR:CZ	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1596:GLU:HB2	1:C:1599:MET:HG2	1.93	0.51
1:E:157:ARG:NE	1:E:167:ASP:OD2	2.43	0.51
1:E:1802:ILE:HG13	1:E:1804:LEU:HD12	1.92	0.51
1:G:1737:PRO:HB3	1:G:2149:VAL:HG11	1.91	0.51
1:G:1802:ILE:HG13	1:G:1804:LEU:HD12	1.93	0.51
1:G:2123:LEU:HA	1:G:2126:ARG:HG2	1.91	0.51
1:G:2146:PRO:O	1:G:2149:VAL:HG22	2.11	0.51
1:G:2162:ILE:HD13	1:G:2178:MET:HG3	1.92	0.51
1:G:2862:LEU:HD21	1:G:2929:PHE:CD1	2.44	0.51
1:A:2162:ILE:HD13	1:A:2178:MET:HG3	1.92	0.51
1:A:2752:ASP:HA	1:A:2755:ILE:HD12	1.93	0.51
1:A:3750:GLU:OE2	1:A:4716:TRP:HA	2.10	0.51
1:A:4864:ASN:HA	1:A:4875:LYS:HG2	1.92	0.51
1:C:23:GLN:HE22	1:C:267:ILE:HG21	1.75	0.51
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.28	0.51
1:C:887:ILE:HA	1:C:891:TRP:HB2	1.93	0.51
1:C:1629:GLN:HE21	1:C:1631:GLN:HG3	1.76	0.51
1:C:1712:TYR:HD2	1:C:1840:PRO:HB2	1.73	0.51
1:E:831:ARG:O	1:E:838:HIS:ND1	2.35	0.51
1:E:1715:LEU:HD21	1:E:1807:LEU:HD21	1.92	0.51
1:E:4738:ALA:O	1:E:4742:GLY:N	2.43	0.51
1:G:437:PRO:O	1:G:441:VAL:HG23	2.11	0.51
1:G:1108:GLU:HG3	1:G:1186:ASP:OD2	2.10	0.51
1:A:437:PRO:O	1:A:441:VAL:HG23	2.11	0.51
1:A:705:ASN:ND2	1:A:782:SER:OG	2.43	0.51
1:A:2146:PRO:O	1:A:2149:VAL:HG22	2.11	0.51
1:A:3821:LYS:HZ3	1:A:3902:TYR:HD1	1.57	0.51
1:A:4713:SER:HA	1:A:4718:LYS:HZ3	1.74	0.51
1:C:705:ASN:ND2	1:C:782:SER:OG	2.43	0.51
1:C:1715:LEU:HD21	1:C:1807:LEU:HD21	1.93	0.51
1:C:2752:ASP:HA	1:C:2755:ILE:HD12	1.93	0.51
1:C:4844:LEU:HD21	1:C:4891:VAL:HG21	1.93	0.51
1:E:489:ASN:HB3	1:E:493:ARG:NH1	2.25	0.51
1:E:750:LEU:O	1:E:752:VAL:N	2.43	0.51
1:E:4889:VAL:HG22	1:E:4892:ARG:HH21	1.75	0.51
1:G:66:CYS:HB2	1:G:112:ALA:HB2	1.91	0.51
1:G:140:ASP:OD2	1:G:142:THR:OG1	2.28	0.51
1:G:805:PRO:O	1:G:807:GLY:N	2.43	0.51
1:G:1715:LEU:HD21	1:G:1807:LEU:HD21	1.92	0.51
1:A:874:LEU:O	1:A:878:ILE:N	2.38	0.51
1:A:1629:GLN:HE21	1:A:1631:GLN:HG3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2137:ALA:HA	1:A:2140:ARG:HH21	1.76	0.51
1:A:2923:ALA:O	1:A:2926:LEU:HB3	2.11	0.51
1:A:4103:PHE:HB2	1:A:4108:ILE:HD11	1.93	0.51
1:C:4892:ARG:NH1	1:E:4899:ASP:N	2.56	0.51
2:D:87:HIS:CD2	2:D:88:PRO:HD2	2.41	0.51
1:E:36:CYS:HB2	1:E:50:GLU:HB3	1.91	0.51
1:E:111:HIS:HD2	1:E:114:SER:N	2.02	0.51
1:E:1629:GLN:HE21	1:E:1631:GLN:HG3	1.75	0.51
1:E:2121:PHE:O	1:E:3725:TYR:OH	2.27	0.51
1:E:3699:HIS:HD2	1:E:3773:ARG:HA	1.76	0.51
1:E:3934:TYR:OH	1:E:3998:HIS:HB3	2.11	0.51
1:E:4979:THR:OG1	1:E:4980:LEU:N	2.44	0.51
1:G:831:ARG:O	1:G:838:HIS:ND1	2.36	0.51
1:G:1131:ARG:HD3	1:G:1139:PHE:CD1	2.45	0.51
1:G:1961:PHE:CG	1:G:2066:LEU:HD13	2.45	0.51
1:G:2121:PHE:CD1	1:G:3701:LEU:HD12	2.46	0.51
1:A:157:ARG:NE	1:A:167:ASP:OD2	2.44	0.51
1:A:805:PRO:O	1:A:807:GLY:N	2.43	0.51
1:A:864:PRO:HG2	1:A:867:LEU:HB2	1.93	0.51
1:A:4736:ARG:O	1:A:4739:GLU:HG2	2.11	0.51
1:A:4844:LEU:HD21	1:A:4891:VAL:HG21	1.93	0.51
1:C:445:LEU:HD23	1:C:521:LEU:CB	2.41	0.51
1:C:3647:HIS:CE1	1:C:3648:ARG:HG3	2.46	0.51
1:E:445:LEU:HD23	1:E:521:LEU:CB	2.41	0.51
1:E:1144:GLN:N	1:E:1147:ASP:OD2	2.34	0.51
1:G:266:ARG:NH1	1:G:330:ASP:HA	2.24	0.51
1:G:594:GLY:H	1:G:1598:GLN:CG	2.24	0.51
1:G:1182:ILE:HD12	1:G:1188:PHE:HE2	1.75	0.51
1:A:750:LEU:O	1:A:752:VAL:N	2.43	0.51
1:A:4701:TRP:HB3	1:A:4778:TRP:CD1	2.46	0.51
1:A:4979:THR:OG1	1:A:4980:LEU:N	2.43	0.51
1:C:864:PRO:HG2	1:C:867:LEU:HB2	1.92	0.51
1:C:1182:ILE:HD12	1:C:1188:PHE:HE2	1.75	0.51
1:E:663:TYR:HB3	1:E:808:TYR:CD1	2.46	0.51
1:E:1596:GLU:HB2	1:E:1599:MET:HG2	1.92	0.51
1:E:2146:PRO:O	1:E:2149:VAL:HG22	2.11	0.51
1:E:4103:PHE:HB2	1:E:4108:ILE:HD11	1.93	0.51
1:E:4736:ARG:O	1:E:4739:GLU:HG2	2.11	0.51
1:E:4864:ASN:HA	1:E:4875:LYS:HG2	1.92	0.51
1:G:332:GLU:N	1:G:333:GLY:HA3	2.25	0.51
1:G:750:LEU:O	1:G:752:VAL:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3713:LYS:O	1:G:3715:LYS:N	2.43	0.51
1:G:4991:PHE:HE2	1:G:5010:VAL:HG11	1.75	0.51
1:A:630:GLU:HA	1:A:1642:PRO:HG3	1.93	0.51
1:C:489:ASN:HB3	1:C:493:ARG:NH1	2.25	0.51
1:C:874:LEU:O	1:C:878:ILE:N	2.38	0.51
1:C:2763:HIS:NE2	1:C:2792:ARG:O	2.32	0.51
1:E:695:TYR:HB2	1:E:1240:LYS:NZ	2.26	0.51
1:E:887:ILE:HA	1:E:891:TRP:HB2	1.93	0.51
1:E:1244:GLN:HG2	1:E:1458:HIS:HE1	1.75	0.51
1:E:2137:ALA:HA	1:E:2140:ARG:HH21	1.76	0.51
1:E:2752:ASP:HA	1:E:2755:ILE:HD12	1.93	0.51
1:E:4205:TRP:CH2	1:E:4986:ALA:HB2	2.46	0.51
1:G:1700:ASP:OD2	1:G:1703:LEU:HB2	2.11	0.51
1:G:2793:PRO:O	1:G:2796:THR:OG1	2.19	0.51
1:G:3101:GLU:O	1:G:3105:LYS:N	2.39	0.51
1:G:3878:ASP:HB2	1:G:3957:VAL:HG21	1.93	0.51
1:A:887:ILE:HA	1:A:891:TRP:HB2	1.92	0.50
1:A:2875:ALA:HB2	1:A:2927:LEU:HD12	1.93	0.50
1:C:2449:GLU:O	1:C:2452:ARG:HB3	2.11	0.50
1:C:3699:HIS:HD2	1:C:3773:ARG:HA	1.76	0.50
1:C:4205:TRP:CH2	1:C:4986:ALA:HB2	2.46	0.50
1:C:4701:TRP:HB3	1:C:4778:TRP:CD1	2.46	0.50
1:C:4736:ARG:O	1:C:4739:GLU:HG2	2.11	0.50
1:C:4823:LEU:CD1	1:E:4839:MET:HB3	2.40	0.50
1:E:1131:ARG:HD3	1:E:1139:PHE:CD1	2.45	0.50
1:G:375:LYS:NZ	1:G:376:ALA:O	2.35	0.50
1:G:445:LEU:HD23	1:G:521:LEU:CB	2.41	0.50
1:G:3916:ILE:HA	1:G:3919:THR:HG22	1.92	0.50
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.12	0.50
2:H:87:HIS:HB3	2:H:90:ILE:HB	1.93	0.50
1:A:489:ASN:HB3	1:A:493:ARG:NH1	2.25	0.50
1:C:594:GLY:H	1:C:1598:GLN:CG	2.23	0.50
1:E:441:VAL:O	1:E:445:LEU:HD13	2.11	0.50
1:G:3813:GLN:NE2	1:G:3891:LEU:O	2.43	0.50
1:G:4010:ILE:HA	1:G:4013:LEU:HB3	1.93	0.50
1:A:445:LEU:HD23	1:A:521:LEU:CB	2.41	0.50
1:A:1182:ILE:HD12	1:A:1188:PHE:HE2	1.75	0.50
1:A:1288:PHE:HE2	1:A:1460:HIS:HA	1.75	0.50
1:A:2924:GLN:O	1:A:2928:LYS:CB	2.60	0.50
1:A:4879:MET:CB	1:G:4578:LEU:O	2.55	0.50
1:C:507:ALA:O	1:C:509:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:630:GLU:HA	1:C:1642:PRO:HG3	1.93	0.50
1:C:695:TYR:HB2	1:C:1240:LYS:NZ	2.27	0.50
2:D:58:GLY:HA3	2:D:76:ILE:HG23	1.94	0.50
1:E:35:LEU:HD13	1:E:49:LEU:HD22	1.93	0.50
1:E:1182:ILE:HD12	1:E:1188:PHE:HE2	1.75	0.50
1:E:1648:MET:HE3	1:E:1656:ARG:HG3	1.93	0.50
1:E:4017:LEU:HA	1:E:4139:ILE:HD11	1.93	0.50
1:G:663:TYR:HB3	1:G:808:TYR:CD1	2.46	0.50
1:G:1596:GLU:HB2	1:G:1599:MET:HG2	1.92	0.50
1:G:1620:ALA:O	1:G:1629:GLN:N	2.35	0.50
1:A:457:GLU:HG3	1:A:464:LYS:HZ1	1.76	0.50
1:A:2806:ARG:HA	1:A:2809:ILE:HD12	1.93	0.50
1:A:3647:HIS:CE1	1:A:3648:ARG:HG3	2.46	0.50
1:A:4205:TRP:CH2	1:A:4986:ALA:HB2	2.46	0.50
1:A:4717:ASP:O	1:A:4720:VAL:HG23	2.12	0.50
1:A:4892:ARG:NH1	1:C:4899:ASP:N	2.56	0.50
1:C:706:GLY:O	1:C:724:GLY:N	2.45	0.50
1:C:1802:ILE:HG13	1:C:1804:LEU:HD12	1.93	0.50
1:C:4103:PHE:HB2	1:C:4108:ILE:HD11	1.93	0.50
1:E:1737:PRO:HB3	1:E:2149:VAL:HG11	1.92	0.50
1:E:3846:ALA:O	1:E:3850:GLN:N	2.45	0.50
1:E:4701:TRP:HB3	1:E:4778:TRP:CD1	2.46	0.50
2:F:25:HIS:CD2	2:F:104:LEU:HD11	2.47	0.50
1:G:1245:PHE:HD2	1:G:1290:ARG:HE	1.60	0.50
1:G:2288:LEU:O	1:G:3849:ARG:HD3	2.11	0.50
1:A:178:ARG:HG2	1:A:195:PHE:CE1	2.47	0.50
1:A:1700:ASP:OD2	1:A:1703:LEU:HB2	2.11	0.50
1:A:2129:ASP:OD1	1:A:2132:GLY:N	2.43	0.50
1:A:3677:LEU:HB3	1:A:3698:LEU:HB2	1.94	0.50
1:A:3958:ALA:HA	1:A:3961:VAL:HG12	1.94	0.50
1:C:375:LYS:NZ	1:C:376:ALA:O	2.35	0.50
1:C:437:PRO:O	1:C:441:VAL:HG23	2.11	0.50
1:C:441:VAL:O	1:C:445:LEU:HD13	2.11	0.50
1:C:4822:THR:O	1:C:4825:THR:OG1	2.23	0.50
1:E:457:GLU:HG3	1:E:464:LYS:HZ2	1.74	0.50
1:A:1207:ASP:O	1:A:1210:SER:OG	2.21	0.50
1:A:3699:HIS:HD2	1:A:3773:ARG:HA	1.76	0.50
1:A:4727:LYS:O	1:A:4728:HIS:HB2	2.12	0.50
1:A:4934:GLY:HA3	1:G:4937:ILE:HG12	1.94	0.50
2:B:87:HIS:HB3	2:B:90:ILE:HB	1.94	0.50
1:C:40:GLU:OE2	1:C:402:ARG:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1288:PHE:HE2	1:C:1460:HIS:HA	1.76	0.50
1:C:2146:PRO:O	1:C:2149:VAL:HG22	2.11	0.50
1:C:2793:PRO:O	1:C:2796:THR:OG1	2.20	0.50
2:D:25:HIS:CD2	2:D:104:LEU:HD11	2.47	0.50
1:E:178:ARG:HG2	1:E:195:PHE:CE1	2.47	0.50
1:E:838:HIS:HD2	1:E:1095:VAL:HG21	1.77	0.50
1:E:843:SER:OG	1:E:844:ARG:N	2.41	0.50
1:E:874:LEU:O	1:E:878:ILE:N	2.38	0.50
1:E:1125:ASN:HB3	1:E:1127:HIS:O	2.12	0.50
1:G:457:GLU:HG3	1:G:464:LYS:HZ1	1.74	0.50
1:G:2066:LEU:O	1:G:2070:VAL:HG23	2.12	0.50
1:G:4860:ARG:HB2	1:G:4877:ASP:OD1	2.11	0.50
1:G:4922:PHE:HA	1:G:4926:VAL:HB	1.92	0.50
1:A:613:ALA:HB1	1:A:618:GLN:NE2	2.26	0.50
1:A:2449:GLU:O	1:A:2452:ARG:HB3	2.11	0.50
1:C:110:ARG:HA	1:C:117:TYR:HD1	1.77	0.50
1:E:1076:ARG:HD2	1:E:1189:LEU:HD13	1.94	0.50
1:E:3958:ALA:HA	1:E:3961:VAL:HG12	1.94	0.50
1:E:4717:ASP:O	1:E:4720:VAL:HG23	2.12	0.50
1:E:4892:ARG:HH12	1:G:4899:ASP:H	1.53	0.50
2:F:58:GLY:HA3	2:F:76:ILE:HG23	1.94	0.50
1:G:2752:ASP:HA	1:G:2755:ILE:HD12	1.92	0.50
1:A:40:GLU:OE2	1:A:402:ARG:HG3	2.12	0.50
1:A:3937:TYR:HA	1:A:3940:LYS:NZ	2.27	0.50
1:A:4822:THR:O	1:A:4825:THR:OG1	2.23	0.50
1:C:178:ARG:HG2	1:C:195:PHE:CE1	2.47	0.50
1:C:3958:ALA:HA	1:C:3961:VAL:HG12	1.94	0.50
1:C:4682:GLU:HG3	1:C:4683:PHE:CE2	2.47	0.50
1:E:871:ARG:HB2	1:E:929:LEU:HD13	1.92	0.50
1:E:4682:GLU:HG3	1:E:4683:PHE:CE2	2.47	0.50
1:G:695:TYR:HB2	1:G:1240:LYS:NZ	2.27	0.50
1:G:1144:GLN:N	1:G:1147:ASP:OD2	2.34	0.50
1:G:4864:ASN:HA	1:G:4875:LYS:HG2	1.94	0.50
1:G:4934:GLY:HA2	1:G:4937:ILE:HD12	1.94	0.50
1:A:110:ARG:HA	1:A:117:TYR:HD1	1.77	0.50
1:A:507:ALA:O	1:A:509:GLU:N	2.45	0.50
1:A:594:GLY:H	1:A:1598:GLN:CG	2.24	0.50
1:A:1715:LEU:HD21	1:A:1807:LEU:HD21	1.93	0.50
1:A:3664:THR:HB	1:A:3665:GLU:OE1	2.12	0.50
1:A:3906:GLN:NE2	1:A:3913:ILE:O	2.39	0.50
1:A:4925:ILE:HG23	1:A:4929:LEU:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4991:PHE:HE2	1:A:5010:VAL:HG11	1.77	0.50
1:C:1457:TYR:C	1:C:1458:HIS:CG	2.90	0.50
1:C:2875:ALA:HB2	1:C:2927:LEU:HD12	1.93	0.50
1:C:4717:ASP:O	1:C:4720:VAL:HG23	2.11	0.50
1:E:597:HIS:CE1	1:E:1661:ARG:HB3	2.47	0.50
1:E:864:PRO:HG2	1:E:867:LEU:HB2	1.92	0.50
1:E:1245:PHE:HD2	1:E:1290:ARG:HE	1.60	0.50
1:E:2449:GLU:O	1:E:2452:ARG:HB3	2.12	0.50
1:E:4991:PHE:HE2	1:E:5010:VAL:HG11	1.77	0.50
1:G:375:LYS:HZ1	1:G:377:ILE:HG22	1.75	0.50
1:G:871:ARG:HB2	1:G:929:LEU:HD13	1.93	0.50
1:G:887:ILE:HA	1:G:891:TRP:HB2	1.93	0.50
1:G:4003:LEU:HB2	1:G:4013:LEU:HD13	1.93	0.50
1:A:1254:HIS:HD2	1:A:1281:ASN:H	1.60	0.49
1:A:1288:PHE:CE2	1:A:1460:HIS:HA	2.47	0.49
1:A:1586:ASN:O	1:A:1588:ALA:N	2.43	0.49
1:A:1639:LEU:HD21	1:A:1653:LEU:HD11	1.94	0.49
1:A:4928:LEU:O	1:A:4932:ILE:HD12	2.12	0.49
2:B:25:HIS:CD2	2:B:104:LEU:HD11	2.46	0.49
1:C:35:LEU:HD13	1:C:49:LEU:HD22	1.93	0.49
1:C:1245:PHE:HD2	1:C:1290:ARG:HE	1.60	0.49
1:C:1745:ILE:HD13	1:C:1956:GLU:HG2	1.94	0.49
1:C:5027:CYS:SG	1:C:5028:PHE:N	2.85	0.49
1:E:2806:ARG:HA	1:E:2809:ILE:HD12	1.94	0.49
1:G:441:VAL:O	1:G:445:LEU:HD13	2.11	0.49
1:G:2449:GLU:O	1:G:2452:ARG:HB3	2.11	0.49
1:G:2855:TYR:CD2	1:G:2857:PRO:HD3	2.47	0.49
1:G:4766:THR:O	1:G:4770:SER:N	2.45	0.49
1:A:110:ARG:HH11	1:A:115:ARG:HE	1.61	0.49
1:A:140:ASP:OD2	1:A:142:THR:OG1	2.28	0.49
1:A:871:ARG:HB2	1:A:929:LEU:HD13	1.93	0.49
1:C:457:GLU:HG3	1:C:464:LYS:HZ2	1.75	0.49
1:E:2793:PRO:O	1:E:2796:THR:OG1	2.19	0.49
1:E:4727:LYS:O	1:E:4728:HIS:HB2	2.12	0.49
1:G:597:HIS:CE1	1:G:1661:ARG:HB3	2.47	0.49
1:G:1125:ASN:HB3	1:G:1127:HIS:O	2.12	0.49
1:G:1237:TRP:CH2	1:G:1655:GLU:HB3	2.47	0.49
1:G:2825:LYS:HD2	1:G:2935:TYR:HE1	1.78	0.49
1:G:4239:GLU:OE1	1:G:4675:LYS:HD2	2.11	0.49
1:G:4979:THR:OG1	1:G:4980:LEU:N	2.45	0.49
1:A:35:LEU:HD13	1:A:49:LEU:HD22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4682:GLU:HG3	1:A:4683:PHE:CE2	2.47	0.49
2:B:58:GLY:HA3	2:B:76:ILE:HG23	1.94	0.49
1:C:871:ARG:HB2	1:C:929:LEU:HD13	1.93	0.49
1:C:1648:MET:HE3	1:C:1656:ARG:HG3	1.94	0.49
1:C:1728:ARG:HH21	1:C:1850:VAL:HG11	1.77	0.49
1:C:2924:GLN:O	1:C:2928:LYS:N	2.40	0.49
1:C:3794:VAL:O	1:C:3797:THR:OG1	2.25	0.49
1:C:4017:LEU:HA	1:C:4139:ILE:HD11	1.93	0.49
1:E:507:ALA:O	1:E:509:GLU:N	2.45	0.49
1:E:706:GLY:O	1:E:724:GLY:N	2.45	0.49
1:E:1745:ILE:HD13	1:E:1956:GLU:HG2	1.94	0.49
1:E:2162:ILE:HD11	1:E:2210:VAL:HG21	1.94	0.49
1:E:3928:GLU:HG3	1:E:3929:SER:N	2.27	0.49
1:G:178:ARG:HG2	1:G:195:PHE:CE1	2.47	0.49
1:G:3963:ASN:O	1:G:3966:THR:OG1	2.29	0.49
1:G:5027:CYS:SG	1:G:5028:PHE:N	2.84	0.49
2:H:38:SER:HB3	2:H:41:ASP:CG	2.37	0.49
1:A:341:TYR:CE1	1:A:392:ARG:HB3	2.48	0.49
1:A:597:HIS:CE1	1:A:1661:ARG:HB3	2.47	0.49
1:A:2773:ASN:HB3	1:A:2775:TRP:CD1	2.48	0.49
1:A:3846:ALA:O	1:A:3850:GLN:N	2.45	0.49
1:A:4017:LEU:HA	1:A:4139:ILE:HD11	1.93	0.49
1:A:4807:PHE:HB3	1:C:4857:ASN:HD21	1.76	0.49
1:C:597:HIS:CE1	1:C:1661:ARG:HB3	2.47	0.49
1:C:750:LEU:O	1:C:752:VAL:N	2.43	0.49
1:C:2162:ILE:HD13	1:C:2178:MET:HG3	1.92	0.49
1:C:4710:SER:O	1:C:4713:SER:OG	2.28	0.49
1:E:1728:ARG:HH21	1:E:1850:VAL:HG11	1.77	0.49
1:E:3677:LEU:HB3	1:E:3698:LEU:HB2	1.93	0.49
1:E:3906:GLN:NE2	1:E:3913:ILE:O	2.39	0.49
1:G:35:LEU:HD13	1:G:49:LEU:HD22	1.93	0.49
1:G:706:GLY:O	1:G:724:GLY:N	2.45	0.49
1:G:838:HIS:HD2	1:G:1095:VAL:HG21	1.77	0.49
1:G:1076:ARG:HD2	1:G:1189:LEU:HD13	1.94	0.49
1:G:1207:ASP:HA	1:G:1210:SER:HB3	1.95	0.49
1:G:1533:GLY:C	1:G:1534:LYS:HD2	2.38	0.49
1:G:3670:GLU:OE1	1:G:3731:LYS:HB2	2.12	0.49
1:A:695:TYR:HB2	1:A:1240:LYS:NZ	2.27	0.49
1:A:838:HIS:HD2	1:A:1095:VAL:HG21	1.77	0.49
1:A:1842:LEU:HD21	1:A:1926:LEU:HD21	1.95	0.49
1:C:2162:ILE:HD11	1:C:2210:VAL:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2806:ARG:HA	1:C:2809:ILE:HD12	1.93	0.49
1:C:4844:LEU:HD21	1:C:4891:VAL:CG2	2.43	0.49
1:C:4928:LEU:HA	1:C:4931:ILE:HG22	1.93	0.49
1:E:110:ARG:HA	1:E:117:TYR:HD1	1.77	0.49
1:E:1207:ASP:HA	1:E:1210:SER:HB3	1.95	0.49
1:E:1237:TRP:CH2	1:E:1655:GLU:HB3	2.47	0.49
1:E:1547:LYS:HZ3	1:E:1645:ASN:HB2	1.77	0.49
1:E:3664:THR:HB	1:E:3665:GLU:OE1	2.13	0.49
1:E:4721:LYS:NZ	1:E:4741:LEU:HD22	2.28	0.49
2:F:87:HIS:HB3	2:F:90:ILE:HB	1.93	0.49
1:G:273:HIS:ND1	1:G:335:GLY:O	2.46	0.49
1:G:276:TRP:HB2	1:G:316:PHE:O	2.13	0.49
1:G:341:TYR:CE1	1:G:392:ARG:HB3	2.47	0.49
1:G:3817:LEU:HD13	1:G:3899:PHE:HD1	1.76	0.49
1:A:441:VAL:O	1:A:445:LEU:HD13	2.11	0.49
1:A:1125:ASN:HB3	1:A:1127:HIS:O	2.12	0.49
1:C:1237:TRP:CH2	1:C:1655:GLU:HB3	2.47	0.49
1:C:1288:PHE:CE2	1:C:1460:HIS:HA	2.48	0.49
1:C:3664:THR:HB	1:C:3665:GLU:OE1	2.13	0.49
1:C:3928:GLU:HG3	1:C:3929:SER:N	2.27	0.49
1:E:3804:ILE:HG22	1:E:3812:VAL:HG11	1.95	0.49
1:E:4728:HIS:HA	1:E:4731:ILE:HD12	1.95	0.49
1:G:411:TYR:HB2	1:G:486:LEU:HD21	1.95	0.49
1:G:2359:ARG:C	1:G:2360:LYS:HG3	2.37	0.49
1:G:4976:GLU:O	1:G:4979:THR:OG1	2.22	0.49
1:A:4844:LEU:HD21	1:A:4891:VAL:CG2	2.43	0.49
1:C:668:VAL:HB	1:C:740:PRO:HA	1.95	0.49
1:C:838:HIS:HD2	1:C:1095:VAL:HG21	1.77	0.49
1:C:1254:HIS:HE2	1:C:1280:GLN:HB3	1.78	0.49
1:C:2137:ALA:HA	1:C:2140:ARG:HH21	1.76	0.49
1:C:3966:THR:O	1:C:3970:GLN:HG3	2.12	0.49
1:E:2359:ARG:C	1:E:2360:LYS:HG3	2.37	0.49
1:G:223:PHE:HD1	1:G:230:CYS:HB3	1.78	0.49
1:G:507:ALA:O	1:G:509:GLU:N	2.45	0.49
1:G:2773:ASN:HB3	1:G:2775:TRP:CD1	2.48	0.49
2:H:76:ILE:O	2:H:96:THR:HG23	2.13	0.49
1:A:273:HIS:N	1:A:334:MET:O	2.27	0.49
1:A:706:GLY:O	1:A:724:GLY:N	2.45	0.49
1:A:1245:PHE:HD2	1:A:1290:ARG:HE	1.60	0.49
1:A:1438:ARG:HA	1:A:1513:ASP:O	2.13	0.49
1:A:2190:VAL:HA	1:A:2193:GLN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:240:ASP:OD2	1:C:244:LEU:HD12	2.12	0.49
1:C:1254:HIS:HD2	1:C:1281:ASN:H	1.60	0.49
1:C:1700:ASP:OD2	1:C:1703:LEU:HB2	2.11	0.49
1:C:1846:SER:O	1:C:1850:VAL:HG23	2.13	0.49
1:C:2359:ARG:C	1:C:2360:LYS:HG3	2.37	0.49
1:C:2855:TYR:CD2	1:C:2857:PRO:HD3	2.48	0.49
1:C:3677:LEU:HB3	1:C:3698:LEU:HB2	1.93	0.49
1:C:3804:ILE:HG22	1:C:3812:VAL:HG11	1.95	0.49
1:C:3938:SER:HA	1:C:4002:LYS:HE3	1.95	0.49
1:E:5027:CYS:SG	1:E:5028:PHE:N	2.85	0.49
1:G:1648:MET:HE3	1:G:1656:ARG:HG3	1.94	0.49
1:G:1728:ARG:HH21	1:G:1850:VAL:HG11	1.76	0.49
1:G:1846:SER:O	1:G:1850:VAL:HG23	2.13	0.49
1:G:2735:PHE:HE1	1:G:2907:PRO:HG3	1.78	0.49
1:G:3674:ILE:HD11	1:G:3728:ILE:HG22	1.94	0.49
1:G:4567:LEU:HD13	1:G:4815:ASP:HB3	1.95	0.49
1:G:4682:GLU:HG3	1:G:4683:PHE:CD2	2.47	0.49
1:A:276:TRP:HB2	1:A:316:PHE:O	2.13	0.49
1:A:4666:VAL:HG13	1:A:4783:ILE:HG12	1.94	0.49
1:A:4839:MET:HB3	1:G:4823:LEU:CD1	2.42	0.49
1:C:696:PRO:HB2	1:C:1613:LEU:HD22	1.94	0.49
1:C:1078:GLU:OE1	1:C:1235:THR:OG1	2.31	0.49
1:C:1125:ASN:HB3	1:C:1127:HIS:O	2.12	0.49
1:C:4991:PHE:HE2	1:C:5010:VAL:HG11	1.77	0.49
2:D:87:HIS:HB3	2:D:90:ILE:HB	1.94	0.49
1:E:40:GLU:OE2	1:E:402:ARG:HG3	2.12	0.49
1:E:3938:SER:HA	1:E:4002:LYS:HE3	1.95	0.49
2:F:76:ILE:O	2:F:96:THR:HG23	2.13	0.49
1:G:110:ARG:HA	1:G:117:TYR:HD1	1.76	0.49
1:G:841:GLY:HA3	1:G:1073:ARG:NH1	2.28	0.49
1:G:1078:GLU:OE1	1:G:1235:THR:OG1	2.31	0.49
1:G:1842:LEU:HD21	1:G:1926:LEU:HD21	1.95	0.49
1:G:3825:GLU:C	1:G:3827:GLY:H	2.19	0.49
1:G:3841:VAL:HG12	1:G:3843:ASP:H	1.77	0.49
1:G:4680:LYS:HD3	1:G:4686:LEU:HD23	1.95	0.49
1:G:4736:ARG:O	1:G:4739:GLU:HG2	2.13	0.49
1:A:273:HIS:ND1	1:A:335:GLY:O	2.45	0.49
1:A:696:PRO:HB2	1:A:1613:LEU:HD22	1.95	0.49
1:A:1078:GLU:OE1	1:A:1235:THR:OG1	2.31	0.49
1:A:3761:GLN:CD	1:A:4722:ARG:HH12	2.20	0.49
1:A:3928:GLU:HG3	1:A:3929:SER:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:276:TRP:HB2	1:C:316:PHE:O	2.13	0.49
1:C:701:GLY:HA2	1:C:1645:ASN:HD21	1.77	0.49
1:C:1617:THR:O	1:C:1618:ARG:NH2	2.37	0.49
1:C:2924:GLN:HB3	1:C:2928:LYS:HE2	1.95	0.49
1:C:4721:LYS:NZ	1:C:4741:LEU:HD22	2.27	0.49
1:E:276:TRP:HB2	1:E:316:PHE:O	2.13	0.49
1:E:411:TYR:HB2	1:E:486:LEU:HD21	1.95	0.49
1:E:526:LEU:HD11	1:E:540:PHE:CZ	2.45	0.49
1:E:630:GLU:HA	1:E:1642:PRO:HG3	1.93	0.49
1:E:2129:ASP:OD1	1:E:2132:GLY:N	2.43	0.49
1:E:4041:ALA:O	1:E:4044:MET:HG2	2.13	0.49
1:E:4666:VAL:HG13	1:E:4783:ILE:HG12	1.95	0.49
1:G:802:PHE:CE2	1:G:804:PRO:HG3	2.48	0.49
1:G:1639:LEU:HD21	1:G:1653:LEU:HD11	1.95	0.49
1:G:1676:LEU:HG	1:G:1721:GLU:OE2	2.13	0.49
1:G:4219:PHE:HD1	1:G:4950:VAL:HG21	1.77	0.49
1:A:223:PHE:HD1	1:A:230:CYS:HB3	1.78	0.48
1:A:411:TYR:HB2	1:A:486:LEU:HD21	1.95	0.48
1:A:1745:ILE:HD13	1:A:1956:GLU:HG2	1.94	0.48
1:C:223:PHE:HD1	1:C:230:CYS:HB3	1.78	0.48
1:C:843:SER:OG	1:C:844:ARG:N	2.41	0.48
1:C:1144:GLN:N	1:C:1147:ASP:OD2	2.34	0.48
1:C:2498:HIS:O	1:C:2501:SER:OG	2.20	0.48
1:E:240:ASP:OD2	1:E:244:LEU:HD12	2.13	0.48
1:E:841:GLY:HA3	1:E:1073:ARG:NH1	2.28	0.48
1:E:1676:LEU:HG	1:E:1721:GLU:OE2	2.13	0.48
1:E:2773:ASN:HB3	1:E:2775:TRP:CD1	2.48	0.48
1:E:3840:SER:HB2	1:E:3877:ASP:OD2	2.14	0.48
1:E:3966:THR:O	1:E:3970:GLN:HG3	2.12	0.48
1:E:4826:ILE:HG22	1:G:4931:ILE:CD1	2.36	0.48
1:E:4940:PHE:CD2	1:G:4938:ASP:OD2	2.66	0.48
1:G:630:GLU:HA	1:G:1642:PRO:HG3	1.94	0.48
1:A:595:ARG:NH2	1:A:1643:GLU:OE2	2.47	0.48
1:A:1214:PHE:O	1:A:1218:GLY:N	2.38	0.48
1:A:1237:TRP:CH2	1:A:1655:GLU:HB3	2.48	0.48
1:A:1728:ARG:HH21	1:A:1850:VAL:HG11	1.77	0.48
1:A:1846:SER:O	1:A:1850:VAL:HG23	2.13	0.48
1:C:273:HIS:ND1	1:C:335:GLY:O	2.45	0.48
1:E:1254:HIS:HE2	1:E:1280:GLN:HB3	1.78	0.48
1:E:2855:TYR:CD2	1:E:2857:PRO:HD3	2.48	0.48
1:E:3805:LEU:HB2	1:E:3890:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4833:ASN:HB3	1:E:4935:LEU:HD21	1.95	0.48
1:G:701:GLY:HA2	1:G:1645:ASN:HD21	1.77	0.48
1:G:3664:THR:HB	1:G:3665:GLU:OE1	2.13	0.48
1:A:1738:LEU:HD11	1:A:2143:THR:HB	1.96	0.48
1:A:2816:MET:HG2	1:A:2878:LEU:HD21	1.96	0.48
1:A:3804:ILE:HG22	1:A:3812:VAL:HG11	1.95	0.48
1:A:3966:THR:O	1:A:3970:GLN:HG3	2.13	0.48
1:C:341:TYR:CE1	1:C:392:ARG:HB3	2.48	0.48
1:C:831:ARG:O	1:C:838:HIS:ND1	2.36	0.48
1:C:2773:ASN:HB3	1:C:2775:TRP:CD1	2.48	0.48
1:C:3840:SER:HB2	1:C:3877:ASP:OD2	2.13	0.48
1:E:341:TYR:CE1	1:E:392:ARG:HB3	2.48	0.48
1:E:595:ARG:NH2	1:E:1641:ILE:HD11	2.26	0.48
1:E:595:ARG:NH2	1:E:1643:GLU:OE2	2.46	0.48
1:E:1639:LEU:HD21	1:E:1653:LEU:HD11	1.94	0.48
1:E:2190:VAL:HA	1:E:2193:GLN:HB2	1.95	0.48
2:F:11:ASP:OD1	2:F:12:GLY:N	2.47	0.48
1:G:273:HIS:N	1:G:334:MET:O	2.27	0.48
1:G:2190:VAL:HA	1:G:2193:GLN:HB2	1.94	0.48
1:G:4042:ARG:O	1:G:4045:VAL:HB	2.13	0.48
1:A:1281:ASN:OD1	1:A:1282:SER:N	2.47	0.48
1:A:2288:LEU:O	1:A:3849:ARG:HD3	2.13	0.48
1:A:4728:HIS:HA	1:A:4731:ILE:HD12	1.96	0.48
2:B:76:ILE:O	2:B:96:THR:HG23	2.13	0.48
1:C:280:LEU:HD12	1:C:280:LEU:O	2.13	0.48
1:C:1085:SER:O	1:C:1088:TRP:NE1	2.39	0.48
1:C:1207:ASP:HA	1:C:1210:SER:HB3	1.95	0.48
1:C:3963:ASN:O	1:C:3966:THR:OG1	2.24	0.48
1:E:473:ASN:O	1:E:477:LEU:HG	2.14	0.48
1:E:1738:LEU:HD11	1:E:2143:THR:HB	1.96	0.48
1:E:2288:LEU:O	1:E:3849:ARG:HD3	2.13	0.48
1:E:2470:ILE:O	1:E:2474:LEU:N	2.40	0.48
1:G:473:ASN:O	1:G:477:LEU:HG	2.14	0.48
1:G:526:LEU:HD11	1:G:540:PHE:CZ	2.46	0.48
1:G:2748:PRO:HD2	1:G:2751:LEU:HD12	1.94	0.48
1:A:214:VAL:HG22	1:A:341:TYR:CE1	2.49	0.48
1:A:877:ASN:O	1:A:880:GLU:HB2	2.14	0.48
1:A:1617:THR:O	1:A:1618:ARG:NH2	2.37	0.48
1:A:1676:LEU:HG	1:A:1721:GLU:OE2	2.13	0.48
1:A:2045:GLN:O	1:A:2064:ARG:NH2	2.40	0.48
1:A:2114:PRO:HD3	1:A:3707:ARG:HH11	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2359:ARG:C	1:A:2360:LYS:HG3	2.37	0.48
1:A:2924:GLN:O	1:A:2928:LYS:HG3	2.14	0.48
1:A:3713:LYS:O	1:A:3715:LYS:N	2.47	0.48
1:A:4833:ASN:HB3	1:A:4935:LEU:HD21	1.95	0.48
1:C:2190:VAL:HA	1:C:2193:GLN:HB2	1.94	0.48
1:C:3761:GLN:CD	1:C:4722:ARG:HH12	2.20	0.48
1:E:1254:HIS:HD2	1:E:1281:ASN:H	1.60	0.48
1:E:1617:THR:O	1:E:1618:ARG:NH2	2.37	0.48
1:E:1842:LEU:HD21	1:E:1926:LEU:HD21	1.94	0.48
1:E:1846:SER:O	1:E:1850:VAL:HG23	2.13	0.48
1:G:110:ARG:NH1	1:G:115:ARG:HB3	2.29	0.48
1:G:178:ARG:HB2	1:G:193:ALA:HB1	1.96	0.48
1:G:696:PRO:HB2	1:G:1613:LEU:HD22	1.94	0.48
1:A:280:LEU:HD12	1:A:280:LEU:O	2.13	0.48
1:A:3938:SER:HA	1:A:4002:LYS:HE3	1.94	0.48
1:C:1620:ALA:O	1:C:1629:GLN:N	2.35	0.48
1:C:1842:LEU:HD21	1:C:1926:LEU:HD21	1.95	0.48
1:C:3937:TYR:HA	1:C:3940:LYS:NZ	2.27	0.48
1:C:4728:HIS:HA	1:C:4731:ILE:HD12	1.96	0.48
1:C:4863:TYR:CD1	1:C:4901:ILE:HD12	2.49	0.48
2:D:11:ASP:OD1	2:D:12:GLY:N	2.47	0.48
2:D:55:VAL:HG21	2:D:59:TRP:HD1	1.79	0.48
1:E:223:PHE:HD1	1:E:230:CYS:HB3	1.77	0.48
1:E:1700:ASP:OD2	1:E:1703:LEU:HB2	2.12	0.48
1:E:1723:ALA:HB1	1:E:1851:MET:HG3	1.96	0.48
1:G:110:ARG:HH11	1:G:115:ARG:HE	1.61	0.48
1:G:526:LEU:HG	1:G:530:ILE:HD11	1.96	0.48
1:G:877:ASN:O	1:G:880:GLU:HB2	2.14	0.48
1:G:1547:LYS:HZ1	1:G:1645:ASN:HB2	1.79	0.48
1:G:2129:ASP:OD1	1:G:2132:GLY:N	2.44	0.48
1:G:4697:VAL:C	1:G:4700:GLN:H	2.21	0.48
1:G:4865:LYS:NZ	1:G:4876:CYS:N	2.61	0.48
1:A:526:LEU:HG	1:A:530:ILE:HD11	1.96	0.48
1:A:692:TYR:CD1	1:A:711:LEU:HD12	2.49	0.48
1:A:802:PHE:CE2	1:A:804:PRO:HG3	2.48	0.48
1:A:841:GLY:HA3	1:A:1073:ARG:NH1	2.28	0.48
1:A:1022:VAL:HG23	1:A:1027:LEU:HB3	1.95	0.48
1:A:4766:THR:O	1:A:4770:SER:N	2.46	0.48
1:C:720:HIS:HA	1:C:730:VAL:H	1.79	0.48
1:C:802:PHE:CE2	1:C:804:PRO:HG3	2.48	0.48
1:C:1076:ARG:HD2	1:C:1189:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1095:VAL:HB	1:C:1199:VAL:HG12	1.96	0.48
1:E:1078:GLU:OE1	1:E:1235:THR:OG1	2.31	0.48
1:E:3817:LEU:HD22	1:E:3899:PHE:HB2	1.96	0.48
1:E:3835:LEU:HD11	1:E:3880:PHE:HZ	1.79	0.48
1:E:4195:PHE:CE1	1:E:4991:PHE:HB2	2.48	0.48
1:E:4925:ILE:HG23	1:E:4929:LEU:HD12	1.95	0.48
2:F:87:HIS:O	2:F:90:ILE:N	2.39	0.48
1:G:636:ASN:HD22	2:H:35:LYS:HD3	1.79	0.48
1:G:640:TYR:CD2	1:G:1634:LEU:HD12	2.49	0.48
1:G:720:HIS:HA	1:G:730:VAL:H	1.78	0.48
1:G:2123:LEU:HD23	1:G:2126:ARG:HD3	1.95	0.48
1:G:2162:ILE:HD11	1:G:2210:VAL:HG21	1.95	0.48
1:A:178:ARG:HB2	1:A:193:ALA:HB1	1.96	0.48
1:A:720:HIS:HA	1:A:730:VAL:H	1.79	0.48
1:A:1076:ARG:HD2	1:A:1189:LEU:HD13	1.94	0.48
1:A:2855:TYR:CD2	1:A:2857:PRO:HD3	2.48	0.48
1:A:4195:PHE:CE1	1:A:4991:PHE:HB2	2.49	0.48
1:A:4863:TYR:CD1	1:A:4901:ILE:HD12	2.49	0.48
2:B:55:VAL:HG21	2:B:59:TRP:HD1	1.79	0.48
1:C:119:SER:HB3	1:C:138:GLN:HG2	1.96	0.48
1:C:411:TYR:HB2	1:C:486:LEU:HD21	1.95	0.48
1:C:1281:ASN:OD1	1:C:1282:SER:N	2.47	0.48
1:C:1292:SER:OG	1:C:1598:GLN:O	2.22	0.48
1:C:2121:PHE:CD1	1:C:3701:LEU:HD12	2.49	0.48
1:E:119:SER:HB3	1:E:138:GLN:HG2	1.96	0.48
1:E:178:ARG:HB2	1:E:193:ALA:HB1	1.96	0.48
1:E:280:LEU:HD12	1:E:280:LEU:O	2.13	0.48
1:E:613:ALA:HB1	1:E:618:GLN:NE2	2.26	0.48
1:E:696:PRO:HB2	1:E:1613:LEU:HD22	1.95	0.48
1:E:4863:TYR:CD1	1:E:4901:ILE:HD12	2.49	0.48
1:E:4960:ILE:HD13	1:E:4983:HIS:HB3	1.96	0.48
1:G:214:VAL:HG22	1:G:341:TYR:CE1	2.49	0.48
1:G:563:VAL:O	1:G:567:VAL:HG23	2.14	0.48
1:G:1457:TYR:O	1:G:1458:HIS:ND1	2.46	0.48
1:G:2920:ARG:O	1:G:2924:GLN:HG3	2.14	0.48
1:A:640:TYR:CD2	1:A:1634:LEU:HD12	2.48	0.48
1:A:668:VAL:HB	1:A:740:PRO:HA	1.94	0.48
1:A:2162:ILE:HD11	1:A:2210:VAL:HG21	1.95	0.48
1:A:3817:LEU:HD22	1:A:3899:PHE:HB2	1.95	0.48
1:A:4041:ALA:O	1:A:4044:MET:HG2	2.13	0.48
1:C:613:ALA:HB1	1:C:618:GLN:NE2	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1676:LEU:HG	1:C:1721:GLU:OE2	2.13	0.48
1:C:2431:ASP:O	1:C:2435:ARG:HG3	2.14	0.48
1:C:3846:ALA:O	1:C:3850:GLN:N	2.45	0.48
1:C:4195:PHE:CE1	1:C:4991:PHE:HB2	2.49	0.48
1:C:4727:LYS:O	1:C:4728:HIS:HB2	2.12	0.48
1:C:4766:THR:O	1:C:4770:SER:N	2.46	0.48
2:D:76:ILE:O	2:D:96:THR:HG23	2.13	0.48
1:E:640:TYR:CD2	1:E:1634:LEU:HD12	2.48	0.48
1:E:833:GLY:HA3	1:E:838:HIS:HE1	1.79	0.48
1:E:1139:PHE:CE2	1:E:1169:LEU:HD21	2.49	0.48
1:G:489:ASN:HB3	1:G:493:ARG:HH12	1.79	0.48
1:G:692:TYR:CD1	1:G:711:LEU:HD12	2.49	0.48
1:G:1085:SER:O	1:G:1088:TRP:NE1	2.39	0.48
1:G:1281:ASN:OD1	1:G:1282:SER:N	2.47	0.48
1:G:2498:HIS:O	1:G:2501:SER:OG	2.20	0.48
1:G:2821:TRP:CD1	1:G:2939:ARG:HA	2.49	0.48
1:G:4715:TYR:OH	1:G:5017:ARG:NH2	2.45	0.48
1:G:4823:LEU:HA	1:G:4826:ILE:HD12	1.95	0.48
1:A:110:ARG:NH1	1:A:115:ARG:HB3	2.29	0.48
1:A:1254:HIS:HE2	1:A:1280:GLN:HB3	1.78	0.48
1:A:4003:LEU:HB2	1:A:4013:LEU:HD13	1.96	0.48
1:C:1723:ALA:HB1	1:C:1851:MET:HG3	1.96	0.48
1:E:1095:VAL:HB	1:E:1199:VAL:HG12	1.96	0.48
1:E:3761:GLN:CD	1:E:4722:ARG:HH12	2.20	0.48
1:E:4059:LEU:HD22	1:E:4170:ILE:HD13	1.96	0.48
1:E:4661:TYR:HE2	1:E:4789:PHE:HB2	1.79	0.48
1:E:4844:LEU:HD21	1:E:4891:VAL:CG2	2.43	0.48
1:G:1745:ILE:HD13	1:G:1956:GLU:HG2	1.95	0.48
1:G:2806:ARG:HA	1:G:2809:ILE:HD12	1.96	0.48
1:G:4124:ASN:OD1	1:G:4125:PHE:N	2.47	0.48
1:G:4738:ALA:O	1:G:4742:GLY:N	2.46	0.48
1:A:473:ASN:O	1:A:477:LEU:HG	2.13	0.47
1:A:4721:LYS:NZ	1:A:4741:LEU:HD22	2.28	0.47
1:C:877:ASN:O	1:C:880:GLU:HB2	2.14	0.47
1:C:1022:VAL:HG23	1:C:1027:LEU:HB3	1.96	0.47
1:C:1778:SER:N	1:C:1799:SER:O	2.36	0.47
1:C:4003:LEU:HB2	1:C:4013:LEU:HD13	1.96	0.47
1:C:4139:ILE:O	1:C:4143:VAL:HG23	2.14	0.47
2:D:87:HIS:O	2:D:90:ILE:N	2.39	0.47
1:E:2816:MET:HG2	1:E:2878:LEU:HD21	1.96	0.47
1:E:2930:LEU:HB3	1:E:2937:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:240:ASP:OD2	1:G:244:LEU:HD12	2.13	0.47
1:G:595:ARG:NH2	1:G:1643:GLU:OE2	2.47	0.47
1:G:1254:HIS:HE2	1:G:1280:GLN:HB3	1.78	0.47
1:G:1254:HIS:HD2	1:G:1281:ASN:H	1.60	0.47
1:G:4242:ILE:O	1:G:4246:GLN:HG2	2.14	0.47
1:G:4680:LYS:O	1:G:4685:GLY:N	2.42	0.47
1:G:4683:PHE:CE2	1:G:5017:ARG:HD2	2.49	0.47
1:A:119:SER:HB3	1:A:138:GLN:HG2	1.96	0.47
1:A:240:ASP:OD2	1:A:244:LEU:HD12	2.14	0.47
1:A:1144:GLN:N	1:A:1147:ASP:OD2	2.34	0.47
1:A:2431:ASP:O	1:A:2435:ARG:HG3	2.14	0.47
1:C:640:TYR:CD2	1:C:1634:LEU:HD12	2.48	0.47
1:C:1239:SER:HA	1:C:1608:MET:O	2.14	0.47
1:C:1533:GLY:C	1:C:1534:LYS:HD2	2.39	0.47
1:C:1639:LEU:HD21	1:C:1653:LEU:HD11	1.95	0.47
1:E:668:VAL:HB	1:E:740:PRO:HA	1.95	0.47
1:E:720:HIS:HA	1:E:730:VAL:H	1.79	0.47
1:E:4766:THR:O	1:E:4770:SER:N	2.46	0.47
1:G:40:GLU:OE2	1:G:402:ARG:HG3	2.12	0.47
1:G:466:SER:HA	1:G:469:ARG:HE	1.79	0.47
1:G:4174:PHE:O	1:G:4178:LEU:N	2.45	0.47
1:G:4904:PRO:HG3	1:G:4913:ARG:HD3	1.96	0.47
1:A:563:VAL:O	1:A:567:VAL:HG23	2.14	0.47
1:A:1533:GLY:C	1:A:1534:LYS:HD2	2.39	0.47
1:A:1815:LEU:HB3	1:A:1865:MET:SD	2.54	0.47
1:C:293:LEU:HG	1:C:298:GLY:HA2	1.97	0.47
1:C:595:ARG:NH2	1:C:1643:GLU:OE2	2.47	0.47
1:C:1139:PHE:CE2	1:C:1169:LEU:HD21	2.49	0.47
1:C:2288:LEU:O	1:C:3849:ARG:HD3	2.13	0.47
1:C:4041:ALA:O	1:C:4044:MET:HG2	2.13	0.47
1:C:4565:LEU:O	1:C:4569:LEU:HG	2.15	0.47
1:E:140:ASP:OD2	1:E:142:THR:OG1	2.29	0.47
1:G:119:SER:HB3	1:G:138:GLN:HG2	1.96	0.47
1:G:280:LEU:HD12	1:G:280:LEU:O	2.13	0.47
1:G:4021:LYS:O	1:G:4025:VAL:HG23	2.14	0.47
1:G:4701:TRP:HB3	1:G:4778:TRP:CD1	2.48	0.47
1:A:291:LEU:HG	1:A:314:PHE:HE2	1.79	0.47
1:A:495:ASN:HB3	1:A:553:ARG:HH21	1.79	0.47
1:A:1547:LYS:HZ3	1:A:1645:ASN:HB2	1.77	0.47
1:A:1723:ALA:HB1	1:A:1851:MET:HG3	1.96	0.47
1:A:4059:LEU:HD22	1:A:4170:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4682:GLU:HG3	1:A:4683:PHE:CD2	2.50	0.47
1:C:473:ASN:O	1:C:477:LEU:HG	2.14	0.47
1:C:526:LEU:HG	1:C:530:ILE:HD11	1.96	0.47
1:C:833:GLY:HA3	1:C:838:HIS:HE1	1.79	0.47
1:C:1738:LEU:HD11	1:C:2143:THR:HB	1.96	0.47
1:C:2816:MET:HG2	1:C:2878:LEU:HD21	1.95	0.47
1:C:3713:LYS:O	1:C:3715:LYS:N	2.47	0.47
1:C:3805:LEU:HB2	1:C:3890:LEU:HD23	1.95	0.47
1:C:3817:LEU:HD22	1:C:3899:PHE:HB2	1.96	0.47
1:C:4666:VAL:HG13	1:C:4783:ILE:HG12	1.95	0.47
1:C:4727:LYS:O	1:C:4728:HIS:CB	2.62	0.47
1:E:273:HIS:ND1	1:E:335:GLY:O	2.46	0.47
1:E:526:LEU:HG	1:E:530:ILE:HD11	1.96	0.47
1:G:883:ALA:O	1:G:887:ILE:HD12	2.15	0.47
1:G:1139:PHE:CE2	1:G:1169:LEU:HD21	2.49	0.47
1:G:4064:MET:O	1:G:4073:GLY:N	2.48	0.47
1:G:4242:ILE:HG12	1:G:4993:MET:HG2	1.96	0.47
1:G:4682:GLU:HG3	1:G:4683:PHE:CE2	2.49	0.47
1:G:4930:ALA:O	1:G:4934:GLY:N	2.33	0.47
1:A:5027:CYS:SG	1:A:5028:PHE:N	2.86	0.47
1:C:178:ARG:HB2	1:C:193:ALA:HB1	1.96	0.47
1:C:563:VAL:O	1:C:567:VAL:HG23	2.13	0.47
1:C:4059:LEU:HD22	1:C:4170:ILE:HD13	1.97	0.47
1:E:111:HIS:NE2	1:E:113:HIS:HB3	2.30	0.47
1:E:1281:ASN:OD1	1:E:1282:SER:N	2.47	0.47
1:E:2496:PRO:HB3	1:E:2553:TYR:CZ	2.49	0.47
1:E:4928:LEU:O	1:E:4932:ILE:HD12	2.12	0.47
1:G:613:ALA:HB1	1:G:618:GLN:NE2	2.26	0.47
1:G:1095:VAL:HB	1:G:1199:VAL:HG12	1.96	0.47
1:G:4783:ILE:HG22	1:G:4789:PHE:CD2	2.50	0.47
2:H:11:ASP:OD1	2:H:12:GLY:N	2.47	0.47
1:A:50:GLU:OE2	1:A:61:ASP:N	2.36	0.47
1:A:1095:VAL:HB	1:A:1199:VAL:HG12	1.97	0.47
1:A:4139:ILE:O	1:A:4143:VAL:HG23	2.14	0.47
1:C:495:ASN:HB3	1:C:553:ARG:HH21	1.79	0.47
1:C:1581:LEU:HD13	1:C:1594:ARG:C	2.40	0.47
1:C:3992:PHE:HB2	1:C:4023:MET:HE1	1.96	0.47
1:E:465:GLN:NE2	1:E:3712:GLU:OE1	2.48	0.47
1:E:563:VAL:O	1:E:567:VAL:HG23	2.14	0.47
1:E:831:ARG:CZ	1:E:840:VAL:HG11	2.45	0.47
1:E:1022:VAL:HG23	1:E:1027:LEU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1239:SER:HA	1:E:1608:MET:O	2.14	0.47
1:E:1533:GLY:C	1:E:1534:LYS:HD2	2.39	0.47
1:E:3713:LYS:O	1:E:3715:LYS:N	2.47	0.47
1:G:2495:VAL:HA	1:G:2498:HIS:HD2	1.80	0.47
1:A:14:LEU:HD13	1:A:202:MET:HE3	1.96	0.47
1:A:1139:PHE:CE2	1:A:1169:LEU:HD21	2.49	0.47
1:A:1207:ASP:HA	1:A:1210:SER:HB3	1.97	0.47
1:A:1480:GLN:H	1:A:1481:GLY:HA2	1.80	0.47
1:A:2121:PHE:CD1	1:A:3701:LEU:HD12	2.50	0.47
1:A:4727:LYS:O	1:A:4728:HIS:CB	2.62	0.47
2:B:11:ASP:OD1	2:B:12:GLY:N	2.47	0.47
1:C:111:HIS:NE2	1:C:113:HIS:HB3	2.30	0.47
1:C:692:TYR:CD1	1:C:711:LEU:HD12	2.49	0.47
1:C:841:GLY:HA3	1:C:1073:ARG:NH1	2.28	0.47
1:C:1947:CYS:SG	1:C:2126:ARG:NE	2.88	0.47
1:C:2151:ASP:O	1:C:2154:SER:OG	2.29	0.47
1:C:3821:LYS:HZ3	1:C:3902:TYR:HD1	1.60	0.47
1:C:4928:LEU:O	1:C:4932:ILE:HD12	2.14	0.47
1:E:589:LEU:HG	1:E:593:HIS:CD2	2.47	0.47
1:E:877:ASN:O	1:E:880:GLU:HB2	2.14	0.47
1:E:883:ALA:O	1:E:887:ILE:HD12	2.15	0.47
1:E:1226:PHE:O	1:E:1229:ASN:HB2	2.15	0.47
1:E:1947:CYS:SG	1:E:2126:ARG:NE	2.87	0.47
1:E:2121:PHE:CD1	1:E:3701:LEU:HD12	2.50	0.47
1:E:3935:TRP:HE3	1:G:80:GLU:OE1	1.98	0.47
1:E:3937:TYR:HA	1:E:3940:LYS:NZ	2.28	0.47
1:E:4139:ILE:O	1:E:4143:VAL:HG23	2.14	0.47
1:E:4682:GLU:HG3	1:E:4683:PHE:CD2	2.50	0.47
1:G:121:LEU:O	1:G:133:PHE:HB3	2.15	0.47
1:G:291:LEU:HG	1:G:314:PHE:HE2	1.79	0.47
1:G:495:ASN:HB3	1:G:553:ARG:HH21	1.79	0.47
1:G:562:GLU:OE2	1:G:598:LYS:HD3	2.15	0.47
1:G:689:THR:HA	1:G:778:PHE:HE2	1.80	0.47
1:G:831:ARG:CZ	1:G:840:VAL:HG11	2.45	0.47
1:G:1022:VAL:HG23	1:G:1027:LEU:HB3	1.96	0.47
1:G:1245:PHE:H	1:G:1290:ARG:HH21	1.63	0.47
1:G:1723:ALA:HB1	1:G:1851:MET:HG3	1.96	0.47
1:G:2121:PHE:O	1:G:3725:TYR:OH	2.27	0.47
1:G:2204:HIS:O	1:G:2208:MET:N	2.42	0.47
1:G:3105:LYS:O	1:G:3109:ASN:N	2.41	0.47
1:G:4089:SER:HA	1:G:4122:MET:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4158:PRO:O	1:G:4162:ASN:N	2.41	0.47
1:G:4721:LYS:HG3	1:G:4741:LEU:HD22	1.96	0.47
1:A:1239:SER:HA	1:A:1608:MET:O	2.14	0.47
1:A:2166:LEU:HG	1:A:2209:GLU:OE1	2.15	0.47
1:A:3805:LEU:HB2	1:A:3890:LEU:HD23	1.96	0.47
1:A:3840:SER:HB2	1:A:3877:ASP:OD2	2.14	0.47
1:A:4242:ILE:O	1:A:4246:GLN:HG2	2.15	0.47
1:A:4661:TYR:HE2	1:A:4789:PHE:HB2	1.79	0.47
1:C:562:GLU:OE2	1:C:598:LYS:HD3	2.15	0.47
1:C:1815:LEU:HB3	1:C:1865:MET:SD	2.54	0.47
1:C:2735:PHE:HE1	1:C:2907:PRO:HG3	1.80	0.47
1:C:2774:ASN:OD1	1:C:2852:ARG:NE	2.48	0.47
1:C:3835:LEU:HD11	1:C:3880:PHE:HZ	1.79	0.47
1:C:4682:GLU:HG3	1:C:4683:PHE:CD2	2.50	0.47
1:E:14:LEU:HB3	1:E:101:LEU:HD12	1.97	0.47
1:E:689:THR:HA	1:E:778:PHE:HE2	1.80	0.47
1:E:692:TYR:CD1	1:E:711:LEU:HD12	2.49	0.47
1:E:802:PHE:CE2	1:E:804:PRO:HG3	2.48	0.47
1:E:1815:LEU:HB3	1:E:1865:MET:SD	2.54	0.47
1:E:2735:PHE:HE1	1:E:2907:PRO:HG3	1.80	0.47
1:E:3992:PHE:HB2	1:E:4023:MET:HE1	1.96	0.47
2:F:55:VAL:HG21	2:F:59:TRP:HD1	1.79	0.47
1:G:14:LEU:HB3	1:G:101:LEU:HD12	1.97	0.47
1:G:50:GLU:OE2	1:G:61:ASP:N	2.36	0.47
1:G:568:LEU:HD12	1:G:602:VAL:HG13	1.97	0.47
1:G:1815:LEU:HB3	1:G:1865:MET:SD	2.54	0.47
1:G:3651:ASN:HA	1:G:3654:LEU:HD12	1.97	0.47
1:G:4583:SER:H	1:G:4628:VAL:HB	1.79	0.47
1:A:831:ARG:CZ	1:A:840:VAL:HG11	2.45	0.47
1:A:853:PRO:HB3	1:A:1023:PRO:HB3	1.97	0.47
1:A:2495:VAL:HA	1:A:2498:HIS:HD2	1.79	0.47
1:A:2930:LEU:HB3	1:A:2937:VAL:HG21	1.96	0.47
1:A:4565:LEU:O	1:A:4569:LEU:HG	2.15	0.47
1:C:831:ARG:CZ	1:C:840:VAL:HG11	2.45	0.47
1:C:2891:LYS:HG2	1:C:2905:LEU:HD13	1.97	0.47
1:C:4150:LEU:O	1:C:4154:VAL:N	2.29	0.47
1:C:4661:TYR:HE2	1:C:4789:PHE:HB2	1.79	0.47
1:E:828:GLU:HG3	1:E:830:ARG:H	1.79	0.47
1:E:1245:PHE:H	1:E:1290:ARG:HH21	1.63	0.47
1:E:2431:ASP:O	1:E:2435:ARG:HG3	2.14	0.47
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4662:ASN:HA	1:E:4666:VAL:HG21	1.97	0.47
1:E:4966:ASP:OD1	1:E:4967:TYR:N	2.47	0.47
1:G:853:PRO:HB3	1:G:1023:PRO:HB3	1.97	0.47
1:G:1239:SER:HA	1:G:1608:MET:O	2.14	0.47
1:G:4661:TYR:HE2	1:G:4789:PHE:HB2	1.80	0.47
1:G:5000:GLU:HA	1:G:5003:HIS:CE1	2.50	0.47
2:H:87:HIS:O	2:H:90:ILE:N	2.39	0.47
1:A:523:TYR:CE1	1:A:560:ILE:HG12	2.50	0.47
1:A:689:THR:HA	1:A:778:PHE:HE2	1.80	0.47
1:A:1808:ARG:NH2	1:A:1855:GLY:H	2.13	0.47
1:A:1947:CYS:SG	1:A:2126:ARG:NE	2.88	0.47
1:A:3835:LEU:HD11	1:A:3880:PHE:HZ	1.79	0.47
1:C:330:ASP:OD2	1:C:332:GLU:OE2	2.33	0.47
1:C:790:ARG:HG3	1:C:1625:GLY:O	2.15	0.47
1:C:2166:LEU:HG	1:C:2209:GLU:OE1	2.15	0.47
1:C:2299:VAL:HG21	1:C:2356:LEU:HB3	1.98	0.47
1:C:2470:ILE:O	1:C:2474:LEU:N	2.40	0.47
1:C:2930:LEU:HB3	1:C:2937:VAL:HG21	1.96	0.47
1:C:4691:GLN:HB2	1:C:4692:PRO:HD2	1.97	0.47
1:E:4003:LEU:HB2	1:E:4013:LEU:HD13	1.96	0.47
1:G:284:HIS:HB3	1:G:287:THR:OG1	2.15	0.47
1:G:1480:GLN:H	1:G:1481:GLY:HA2	1.80	0.47
1:G:2045:GLN:O	1:G:2064:ARG:NH2	2.40	0.47
1:G:2166:LEU:HG	1:G:2209:GLU:OE1	2.15	0.47
1:G:2867:LEU:HG	1:G:2928:LYS:NZ	2.30	0.47
1:A:465:GLN:NE2	1:A:3712:GLU:OE1	2.48	0.46
1:A:489:ASN:HB3	1:A:493:ARG:HH12	1.79	0.46
1:A:1435:TYR:HB3	1:A:1517:GLY:H	1.80	0.46
1:A:2821:TRP:CD1	1:A:2939:ARG:HA	2.50	0.46
1:A:4662:ASN:HA	1:A:4666:VAL:HG21	1.98	0.46
1:C:284:HIS:CD2	1:C:287:THR:H	2.32	0.46
1:C:465:GLN:NE2	1:C:3712:GLU:OE1	2.48	0.46
1:C:489:ASN:HB3	1:C:493:ARG:HH12	1.80	0.46
1:C:4960:ILE:HD13	1:C:4983:HIS:HB3	1.97	0.46
1:E:14:LEU:HD13	1:E:202:MET:HE3	1.97	0.46
1:E:293:LEU:HG	1:E:298:GLY:HA2	1.97	0.46
1:E:495:ASN:HB3	1:E:553:ARG:HH21	1.79	0.46
1:E:562:GLU:OE2	1:E:598:LYS:HD3	2.15	0.46
1:E:4049:VAL:HG21	1:E:4159:ARG:HD2	1.97	0.46
1:E:4892:ARG:NH1	1:G:4899:ASP:N	2.57	0.46
1:G:833:GLY:HA3	1:G:838:HIS:HE1	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1226:PHE:O	1:G:1229:ASN:HB2	2.14	0.46
1:G:1581:LEU:HD13	1:G:1594:ARG:C	2.40	0.46
1:G:3424:LEU:O	1:G:3427:PRO:N	2.48	0.46
1:G:4234:PHE:CE1	1:G:4985:LEU:HD11	2.50	0.46
1:A:121:LEU:O	1:A:133:PHE:HB3	2.15	0.46
1:A:1226:PHE:O	1:A:1229:ASN:HB2	2.16	0.46
1:A:1245:PHE:H	1:A:1290:ARG:HH21	1.63	0.46
1:A:2121:PHE:O	1:A:3725:TYR:OH	2.27	0.46
1:A:2422:ILE:O	1:A:2425:PHE:HB3	2.16	0.46
1:A:3992:PHE:HB2	1:A:4023:MET:HE1	1.97	0.46
1:A:4021:LYS:O	1:A:4025:VAL:HG23	2.15	0.46
1:A:4710:SER:O	1:A:4713:SER:OG	2.31	0.46
1:C:291:LEU:HG	1:C:314:PHE:HE2	1.79	0.46
1:C:883:ALA:O	1:C:887:ILE:HD12	2.15	0.46
1:C:1667:LEU:HG	1:C:1714:LEU:HD11	1.98	0.46
1:C:2114:PRO:HD3	1:C:3707:ARG:HH11	1.79	0.46
1:C:4867:GLU:HA	1:C:4868:ASP:HA	1.80	0.46
1:E:479:GLN:HE22	1:E:484:LEU:HD22	1.80	0.46
1:E:489:ASN:HB3	1:E:493:ARG:HH12	1.80	0.46
1:E:2114:PRO:HD3	1:E:3707:ARG:HH11	1.79	0.46
1:E:2142:TYR:HB3	1:E:2197:LEU:HD12	1.98	0.46
1:E:2165:LEU:HD21	1:E:2177:LEU:HB2	1.97	0.46
1:G:14:LEU:HD21	1:G:204:PRO:HD3	1.97	0.46
1:G:293:LEU:HG	1:G:298:GLY:HA2	1.97	0.46
1:G:330:ASP:OD2	1:G:332:GLU:OE2	2.33	0.46
1:G:584:LYS:HZ1	1:G:1586:ASN:HD21	1.63	0.46
1:G:3906:GLN:NE2	1:G:3913:ILE:O	2.46	0.46
1:G:4195:PHE:CE1	1:G:4991:PHE:HB2	2.50	0.46
1:G:4961:CYS:SG	1:G:4983:HIS:CE1	3.03	0.46
1:A:562:GLU:OE2	1:A:598:LYS:HD3	2.15	0.46
1:A:883:ALA:O	1:A:887:ILE:HD12	2.15	0.46
1:A:1079:LYS:HG3	1:A:1237:TRP:HZ3	1.80	0.46
1:A:2299:VAL:HG11	1:A:2356:LEU:HB2	1.98	0.46
1:A:2517:PHE:O	1:A:2521:VAL:HG23	2.16	0.46
1:A:3935:TRP:HE3	1:C:80:GLU:OE1	1.99	0.46
1:A:4032:GLU:O	1:A:5006:GLN:NE2	2.49	0.46
1:A:4691:GLN:HB2	1:A:4692:PRO:HD2	1.97	0.46
1:A:4960:ILE:HD13	1:A:4983:HIS:HB3	1.98	0.46
1:C:110:ARG:HG2	1:C:111:HIS:O	2.15	0.46
1:C:828:GLU:HG3	1:C:830:ARG:H	1.80	0.46
1:C:1245:PHE:H	1:C:1290:ARG:HH21	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2517:PHE:O	1:C:2521:VAL:HG23	2.16	0.46
1:C:3825:GLU:C	1:C:3827:GLY:H	2.24	0.46
1:C:3935:TRP:HE3	1:E:80:GLU:OE1	1.99	0.46
1:E:395:GLN:NE2	1:E:399:GLN:HB2	2.31	0.46
1:E:1514:LEU:C	1:E:1515:VAL:CG2	2.88	0.46
1:E:4242:ILE:O	1:E:4246:GLN:HG2	2.15	0.46
1:E:4565:LEU:O	1:E:4569:LEU:HG	2.15	0.46
1:G:2151:ASP:O	1:G:2154:SER:OG	2.29	0.46
1:G:2299:VAL:HG21	1:G:2356:LEU:HB3	1.97	0.46
1:G:2431:ASP:O	1:G:2435:ARG:HG3	2.14	0.46
1:G:4774:LYS:HA	1:G:4777:ILE:HG22	1.96	0.46
1:G:4796:MET:HG3	1:G:4797:VAL:N	2.29	0.46
1:G:4966:ASP:OD1	1:G:4967:TYR:N	2.46	0.46
1:A:14:LEU:HB3	1:A:101:LEU:HD12	1.96	0.46
1:A:110:ARG:HG2	1:A:111:HIS:O	2.16	0.46
1:A:828:GLU:HG3	1:A:830:ARG:H	1.79	0.46
1:A:2299:VAL:HG21	1:A:2356:LEU:HB3	1.98	0.46
2:B:87:HIS:O	2:B:90:ILE:N	2.39	0.46
1:C:214:VAL:HG22	1:C:341:TYR:CE1	2.50	0.46
1:C:568:LEU:HD12	1:C:602:VAL:HG13	1.98	0.46
1:C:667:MET:HG2	1:C:743:VAL:HG22	1.98	0.46
1:C:1621:GLY:HA2	1:C:1628:VAL:HA	1.98	0.46
1:C:2142:TYR:HB3	1:C:2197:LEU:HD12	1.98	0.46
1:C:2821:TRP:CD1	1:C:2939:ARG:HA	2.50	0.46
1:C:4021:LYS:O	1:C:4025:VAL:HG23	2.15	0.46
1:C:4648:LEU:HD23	1:C:4803:HIS:NE2	2.30	0.46
1:C:4662:ASN:HA	1:C:4666:VAL:HG21	1.97	0.46
1:C:4974:GLY:O	1:C:4977:THR:OG1	2.27	0.46
1:E:14:LEU:HD21	1:E:204:PRO:HD3	1.98	0.46
1:E:523:TYR:CE1	1:E:560:ILE:HG12	2.50	0.46
1:E:667:MET:HG2	1:E:743:VAL:HG22	1.98	0.46
1:E:2891:LYS:HG2	1:E:2905:LEU:HD13	1.98	0.46
1:E:4032:GLU:O	1:E:5006:GLN:NE2	2.49	0.46
1:G:110:ARG:HG2	1:G:111:HIS:O	2.15	0.46
1:G:523:TYR:CE1	1:G:560:ILE:HG12	2.50	0.46
1:G:2165:LEU:HD21	1:G:2177:LEU:HB2	1.97	0.46
1:G:3722:TYR:CZ	1:G:3782:MET:HE3	2.50	0.46
1:G:3980:LEU:HD21	1:G:3985:LEU:HD13	1.98	0.46
2:H:29:MET:HB2	2:H:33:GLY:C	2.41	0.46
1:A:453:GLU:HA	1:A:454:PRO:HD3	1.85	0.46
1:A:667:MET:HG2	1:A:743:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1581:LEU:HD13	1:A:1594:ARG:C	2.40	0.46
1:A:1962:ALA:O	1:A:1966:VAL:HG23	2.16	0.46
1:A:3825:GLU:C	1:A:3827:GLY:H	2.23	0.46
1:A:3898:ASP:OD1	1:A:3899:PHE:N	2.49	0.46
1:A:4648:LEU:HD23	1:A:4803:HIS:NE2	2.31	0.46
1:C:14:LEU:HD13	1:C:202:MET:HE3	1.96	0.46
1:C:345:LEU:HD22	1:C:387:ALA:HB1	1.97	0.46
1:C:580:GLU:HG3	1:C:620:LEU:HD12	1.98	0.46
1:C:2326:CYS:O	1:C:2329:GLU:HG2	2.16	0.46
1:C:4922:PHE:HA	1:C:4926:VAL:HB	1.97	0.46
1:E:584:LYS:HZ1	1:E:1586:ASN:HD21	1.62	0.46
1:E:1962:ALA:O	1:E:1966:VAL:HG23	2.16	0.46
1:E:2774:ASN:OD1	1:E:2852:ARG:NE	2.49	0.46
1:G:74:SER:O	1:G:78:LEU:N	2.40	0.46
1:G:526:LEU:O	1:G:530:ILE:HG13	2.16	0.46
1:G:1739:THR:OG1	1:G:1742:THR:HG23	2.15	0.46
1:G:2422:ILE:O	1:G:2425:PHE:HB3	2.16	0.46
1:G:2821:TRP:CE2	1:G:2939:ARG:HG2	2.51	0.46
1:A:289:ARG:HB3	1:A:302:VAL:O	2.16	0.46
1:A:345:LEU:HD22	1:A:387:ALA:HB1	1.97	0.46
1:A:568:LEU:HD12	1:A:602:VAL:HG13	1.98	0.46
1:A:716:PHE:N	1:A:738:LEU:HD13	2.31	0.46
1:A:790:ARG:HG3	1:A:1625:GLY:O	2.15	0.46
1:A:1739:THR:OG1	1:A:1742:THR:HG23	2.16	0.46
1:A:2867:LEU:HD12	1:A:2924:GLN:HG2	1.96	0.46
1:A:4149:ASN:OD1	1:A:4153:HIS:ND1	2.48	0.46
1:C:110:ARG:HH11	1:C:115:ARG:HE	1.64	0.46
1:C:4149:ASN:OD1	1:C:4153:HIS:ND1	2.49	0.46
1:E:121:LEU:O	1:E:133:PHE:HB3	2.15	0.46
1:E:580:GLU:HG3	1:E:620:LEU:HD12	1.97	0.46
1:E:701:GLY:HA2	1:E:1645:ASN:HD21	1.81	0.46
1:E:853:PRO:HB3	1:E:1023:PRO:HB3	1.97	0.46
1:E:1457:TYR:CZ	1:E:1459:GLN:HB2	2.50	0.46
1:E:2093:SER:HA	1:E:2096:GLU:OE2	2.15	0.46
1:E:2299:VAL:HG21	1:E:2356:LEU:HB3	1.97	0.46
1:E:2422:ILE:O	1:E:2425:PHE:HB3	2.15	0.46
1:E:4149:ASN:OD1	1:E:4153:HIS:ND1	2.48	0.46
1:G:790:ARG:HG3	1:G:1625:GLY:O	2.15	0.46
1:G:828:GLU:HG3	1:G:830:ARG:H	1.79	0.46
1:G:1079:LYS:HG3	1:G:1237:TRP:HZ3	1.80	0.46
1:G:1676:LEU:CD1	1:G:1725:ARG:HH11	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.97	0.46
1:G:2434:GLY:O	1:G:2508:ARG:HG3	2.16	0.46
1:A:284:HIS:CD2	1:A:287:THR:H	2.33	0.46
1:A:833:GLY:HA3	1:A:838:HIS:HE1	1.80	0.46
1:A:2036:GLN:CB	1:A:3652:MET:HE2	2.46	0.46
1:A:2093:SER:HA	1:A:2096:GLU:OE2	2.16	0.46
1:A:2862:LEU:HD21	1:A:2929:PHE:CD1	2.49	0.46
1:A:4978:HIS:HA	1:A:4982:GLU:CG	2.46	0.46
1:C:395:GLN:NE2	1:C:399:GLN:HB2	2.31	0.46
1:E:110:ARG:NH1	1:E:115:ARG:HB3	2.31	0.46
1:E:221:ARG:HG3	1:E:259:LEU:HD23	1.98	0.46
1:E:330:ASP:OD2	1:E:332:GLU:OE2	2.33	0.46
1:E:568:LEU:HD12	1:E:602:VAL:HG13	1.98	0.46
1:E:716:PHE:N	1:E:738:LEU:HD13	2.31	0.46
1:E:3825:GLU:C	1:E:3827:GLY:H	2.23	0.46
1:E:4727:LYS:O	1:E:4728:HIS:CB	2.62	0.46
1:G:1586:ASN:O	1:G:1588:ALA:N	2.44	0.46
1:G:2774:ASN:OD1	1:G:2852:ARG:NE	2.48	0.46
1:A:330:ASP:OD2	1:A:332:GLU:OE2	2.33	0.46
1:A:526:LEU:O	1:A:530:ILE:HG13	2.16	0.46
1:A:1621:GLY:HA2	1:A:1628:VAL:HA	1.98	0.46
1:C:265:LEU:HD21	1:C:281:ARG:HG2	1.98	0.46
1:C:853:PRO:HB3	1:C:1023:PRO:HB3	1.97	0.46
1:C:1676:LEU:CD1	1:C:1725:ARG:HH11	2.29	0.46
1:C:1721:GLU:O	1:C:1725:ARG:HG2	2.16	0.46
1:C:3995:VAL:O	1:C:3999:MET:HB3	2.16	0.46
1:E:214:VAL:HG22	1:E:341:TYR:CE1	2.50	0.46
1:E:265:LEU:HD21	1:E:281:ARG:HG2	1.98	0.46
1:E:575:LEU:O	1:E:578:ILE:HG22	2.16	0.46
1:E:723:THR:HG1	1:E:728:ARG:HH12	1.60	0.46
1:E:1141:ARG:NH1	1:E:1167:GLU:OE1	2.48	0.46
1:E:1480:GLN:H	1:E:1481:GLY:HA2	1.80	0.46
1:E:1586:ASN:O	1:E:1588:ALA:N	2.43	0.46
1:E:1621:GLY:HA2	1:E:1628:VAL:HA	1.98	0.46
1:E:1676:LEU:CD1	1:E:1725:ARG:HH11	2.29	0.46
1:E:1739:THR:OG1	1:E:1742:THR:HG23	2.15	0.46
1:E:2349:ASN:O	1:E:2353:VAL:HG23	2.16	0.46
1:E:3898:ASP:OD1	1:E:3899:PHE:N	2.49	0.46
1:G:265:LEU:HD21	1:G:281:ARG:HG2	1.98	0.46
1:G:345:LEU:HD22	1:G:387:ALA:HB1	1.97	0.46
1:G:1617:THR:O	1:G:1618:ARG:NH2	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2143:THR:HG23	1:G:3654:LEU:HD11	1.98	0.46
1:G:2817:ILE:C	1:G:2820:GLU:H	2.23	0.46
1:G:3929:SER:O	1:G:3933:PHE:N	2.46	0.46
1:A:265:LEU:HD21	1:A:281:ARG:HG2	1.98	0.46
1:A:1139:PHE:CE1	1:A:1169:LEU:HD11	2.51	0.46
1:A:1676:LEU:CD1	1:A:1725:ARG:HH11	2.29	0.46
1:A:1721:GLU:O	1:A:1725:ARG:HG2	2.16	0.46
1:A:2142:TYR:HB3	1:A:2197:LEU:HD12	1.98	0.46
1:A:2774:ASN:OD1	1:A:2852:ARG:NE	2.48	0.46
1:A:4966:ASP:OD1	1:A:4967:TYR:N	2.47	0.46
1:C:1690:ASP:OD1	1:C:1691:GLN:N	2.49	0.46
1:C:1848:LEU:HD11	1:C:1853:ILE:HD12	1.98	0.46
1:C:2761:TYR:CE2	1:C:2862:LEU:HD22	2.51	0.46
1:C:4931:ILE:HD13	1:C:4931:ILE:HG21	1.74	0.46
1:E:273:HIS:N	1:E:334:MET:O	2.27	0.46
1:E:3825:GLU:OE2	1:E:3828:PHE:HB2	2.16	0.46
1:E:5017:ARG:HB3	1:E:5019:TRP:CZ3	2.51	0.46
1:G:221:ARG:HG3	1:G:259:LEU:HD23	1.98	0.46
1:G:758:ARG:NH1	1:G:763:PRO:HG3	2.31	0.46
1:G:1690:ASP:OD1	1:G:1691:GLN:N	2.49	0.46
1:G:1962:ALA:O	1:G:1966:VAL:HG23	2.16	0.46
1:G:3185:LYS:O	1:G:3189:ALA:N	2.46	0.46
1:G:3825:GLU:O	1:G:3827:GLY:N	2.45	0.46
1:G:3928:GLU:HG3	1:G:3929:SER:N	2.31	0.46
1:A:2434:GLY:O	1:A:2508:ARG:HG3	2.16	0.46
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.16	0.46
1:A:4934:GLY:CA	1:G:4937:ILE:HG12	2.46	0.46
1:C:50:GLU:OE2	1:C:61:ASP:N	2.36	0.46
1:C:121:LEU:O	1:C:133:PHE:HB3	2.15	0.46
1:C:1141:ARG:NH1	1:C:1167:GLU:OE1	2.48	0.46
1:C:2495:VAL:HA	1:C:2498:HIS:HD2	1.80	0.46
1:C:2496:PRO:HB3	1:C:2553:TYR:CZ	2.51	0.46
1:C:4978:HIS:HA	1:C:4982:GLU:CG	2.46	0.46
1:E:235:ALA:HB2	1:E:257:ARG:NH1	2.31	0.46
1:E:284:HIS:CD2	1:E:287:THR:H	2.32	0.46
1:E:526:LEU:O	1:E:530:ILE:HG13	2.16	0.46
1:E:2761:TYR:CE2	1:E:2862:LEU:HD22	2.51	0.46
1:E:2821:TRP:CD1	1:E:2939:ARG:HA	2.50	0.46
1:E:2862:LEU:HD21	1:E:2929:PHE:CD1	2.49	0.46
1:E:4778:TRP:O	1:E:4782:VAL:HG23	2.16	0.46
1:E:4940:PHE:CE2	1:G:4938:ASP:OD2	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:595:ARG:HH12	1:G:1641:ILE:HD13	1.80	0.46
1:G:1152:MET:HB3	1:G:1161:ILE:O	2.16	0.46
1:G:3780:LEU:HD22	1:G:3819:TYR:CD2	2.51	0.46
1:G:3831:SER:O	1:G:3835:LEU:HB2	2.17	0.46
1:G:4863:TYR:CD1	1:G:4901:ILE:HD12	2.51	0.46
1:A:479:GLN:HE22	1:A:484:LEU:HD22	1.80	0.45
1:A:1690:ASP:OD1	1:A:1691:GLN:N	2.49	0.45
1:A:3995:VAL:O	1:A:3999:MET:HB3	2.16	0.45
1:C:66:CYS:HB2	1:C:112:ALA:HB2	1.99	0.45
1:C:1024:TYR:CZ	1:C:1032:LYS:HG3	2.51	0.45
1:C:1226:PHE:O	1:C:1229:ASN:HB2	2.15	0.45
1:C:2299:VAL:HG11	1:C:2356:LEU:HB2	1.98	0.45
1:C:2422:ILE:O	1:C:2425:PHE:HB3	2.16	0.45
1:C:4925:ILE:HG23	1:C:4929:LEU:HD12	1.98	0.45
1:E:284:HIS:HB3	1:E:287:THR:OG1	2.16	0.45
1:E:790:ARG:HG3	1:E:1625:GLY:O	2.15	0.45
1:E:876:GLU:O	1:E:880:GLU:HG3	2.16	0.45
1:E:1667:LEU:HG	1:E:1714:LEU:HD11	1.98	0.45
1:E:1690:ASP:OD1	1:E:1691:GLN:N	2.49	0.45
1:E:4648:LEU:HD23	1:E:4803:HIS:NE2	2.31	0.45
1:E:4691:GLN:HB2	1:E:4692:PRO:HD2	1.97	0.45
1:E:4963:ILE:HD12	1:E:5027:CYS:HB3	1.97	0.45
1:G:1139:PHE:CE1	1:G:1169:LEU:HD11	2.51	0.45
1:G:1808:ARG:NH2	1:G:1855:GLY:H	2.14	0.45
1:G:4221:VAL:HG22	1:G:4233:LEU:HD22	1.98	0.45
1:A:110:ARG:HH11	1:A:115:ARG:HB3	1.81	0.45
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.98	0.45
1:A:2165:LEU:HD21	1:A:2177:LEU:HB2	1.97	0.45
1:A:2326:CYS:O	1:A:2329:GLU:HG2	2.16	0.45
1:A:2349:ASN:O	1:A:2353:VAL:HG23	2.16	0.45
2:B:40:ARG:C	2:B:43:ASN:H	2.24	0.45
1:C:14:LEU:HD21	1:C:204:PRO:HD3	1.97	0.45
1:C:255:HIS:NE2	1:C:480:GLU:OE2	2.49	0.45
1:C:1139:PHE:CE1	1:C:1169:LEU:HD11	2.51	0.45
1:C:1770:SER:OG	1:C:1771:LEU:N	2.49	0.45
1:C:1808:ARG:NH2	1:C:1855:GLY:H	2.14	0.45
1:C:2036:GLN:CB	1:C:3652:MET:HE2	2.46	0.45
1:C:2057:THR:O	1:C:2060:SER:OG	2.30	0.45
1:C:2093:SER:HA	1:C:2096:GLU:OE2	2.15	0.45
1:C:2817:ILE:C	1:C:2820:GLU:H	2.24	0.45
1:C:3898:ASP:OD1	1:C:3899:PHE:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4032:GLU:O	1:C:5006:GLN:NE2	2.49	0.45
1:C:4242:ILE:O	1:C:4246:GLN:HG2	2.15	0.45
2:D:40:ARG:C	2:D:43:ASN:H	2.24	0.45
1:E:24:CYS:SG	1:E:182:LEU:HD13	2.56	0.45
1:E:110:ARG:HG2	1:E:111:HIS:O	2.15	0.45
1:E:255:HIS:NE2	1:E:480:GLU:OE2	2.49	0.45
1:E:289:ARG:HB3	1:E:302:VAL:O	2.16	0.45
1:E:291:LEU:HG	1:E:314:PHE:HE2	1.79	0.45
1:E:629:ARG:HB3	1:E:634:GLN:OE1	2.17	0.45
1:E:1581:LEU:HD13	1:E:1594:ARG:C	2.40	0.45
1:E:1848:LEU:HD11	1:E:1853:ILE:HD12	1.98	0.45
1:E:2326:CYS:O	1:E:2329:GLU:HG2	2.17	0.45
1:G:111:HIS:NE2	1:G:113:HIS:HB3	2.31	0.45
1:G:289:ARG:HB3	1:G:302:VAL:O	2.16	0.45
1:G:479:GLN:HE22	1:G:484:LEU:HD22	1.80	0.45
1:G:1297:PHE:CD2	1:G:1545:ASN:HA	2.51	0.45
1:G:2299:VAL:HG11	1:G:2356:LEU:HB2	1.98	0.45
1:G:2923:ALA:HA	1:G:2926:LEU:HB3	1.97	0.45
1:A:639:ASN:OD1	1:A:640:TYR:N	2.50	0.45
1:A:876:GLU:O	1:A:880:GLU:HG3	2.17	0.45
1:A:1690:ASP:OD1	2:B:41:ASP:HB3	2.17	0.45
1:A:1848:LEU:HD11	1:A:1853:ILE:HD12	1.98	0.45
1:A:2761:TYR:CE2	1:A:2862:LEU:HD22	2.51	0.45
1:A:4049:VAL:HG21	1:A:4159:ARG:HD2	1.98	0.45
1:A:4963:ILE:HD12	1:A:5027:CYS:HB3	1.97	0.45
1:C:14:LEU:HB3	1:C:101:LEU:HD12	1.97	0.45
1:C:284:HIS:HB3	1:C:287:THR:OG1	2.16	0.45
1:C:289:ARG:HB3	1:C:302:VAL:O	2.16	0.45
1:C:523:TYR:CE1	1:C:560:ILE:HG12	2.50	0.45
1:C:1739:THR:OG1	1:C:1742:THR:HG23	2.16	0.45
1:C:4049:VAL:HG21	1:C:4159:ARG:HD2	1.98	0.45
1:E:345:LEU:HD22	1:E:387:ALA:HB1	1.97	0.45
1:E:2166:LEU:HG	1:E:2209:GLU:OE1	2.15	0.45
1:G:14:LEU:HD13	1:G:202:MET:HE3	1.97	0.45
1:G:1735:ILE:HD11	1:G:2156:LEU:HD11	1.98	0.45
1:G:2093:SER:HA	1:G:2096:GLU:OE2	2.16	0.45
1:G:2142:TYR:HB3	1:G:2197:LEU:HD12	1.97	0.45
1:G:2496:PRO:HB3	1:G:2553:TYR:CZ	2.51	0.45
1:G:2517:PHE:O	1:G:2521:VAL:HG23	2.16	0.45
1:G:3319:ILE:O	1:G:3323:ILE:N	2.48	0.45
1:G:3986:TRP:O	1:G:3990:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4833:ASN:HD22	1:G:4939:ALA:HB2	1.80	0.45
1:G:4963:ILE:HD12	1:G:5027:CYS:HB3	1.97	0.45
1:A:284:HIS:HB3	1:A:287:THR:OG1	2.16	0.45
1:A:308:HIS:CE1	1:A:310:LYS:HB2	2.51	0.45
1:A:1226:PHE:HA	1:A:1229:ASN:HD22	1.82	0.45
1:A:1261:ASP:HB2	1:A:1595:LEU:HD13	1.98	0.45
1:A:2891:LYS:HG2	1:A:2905:LEU:HD13	1.98	0.45
1:A:5017:ARG:HB3	1:A:5019:TRP:CZ3	2.51	0.45
1:C:595:ARG:HH12	1:C:1641:ILE:HD13	1.80	0.45
1:C:689:THR:HA	1:C:778:PHE:HE2	1.80	0.45
1:C:758:ARG:NH1	1:C:763:PRO:HG3	2.30	0.45
1:C:1079:LYS:HG3	1:C:1237:TRP:HZ3	1.80	0.45
1:C:1152:MET:HB3	1:C:1161:ILE:O	2.16	0.45
1:C:1226:PHE:HA	1:C:1229:ASN:HD22	1.81	0.45
1:C:1480:GLN:H	1:C:1481:GLY:HA2	1.80	0.45
1:C:1712:TYR:O	1:C:1716:ILE:HG12	2.17	0.45
1:C:2060:SER:HA	1:C:2063:LEU:HD12	1.98	0.45
1:C:2165:LEU:HD21	1:C:2177:LEU:HB2	1.97	0.45
1:C:2434:GLY:O	1:C:2508:ARG:HG3	2.16	0.45
1:C:5000:GLU:HA	1:C:5003:HIS:CE1	2.52	0.45
1:E:595:ARG:HH12	1:E:1641:ILE:HD13	1.80	0.45
1:E:639:ASN:OD1	1:E:640:TYR:N	2.50	0.45
1:E:758:ARG:NH1	1:E:763:PRO:HG3	2.31	0.45
1:E:1297:PHE:CD2	1:E:1545:ASN:HA	2.51	0.45
1:E:2517:PHE:O	1:E:2521:VAL:HG23	2.16	0.45
1:G:24:CYS:SG	1:G:182:LEU:HD13	2.56	0.45
1:G:284:HIS:CD2	1:G:287:THR:H	2.32	0.45
1:G:395:GLN:NE2	1:G:399:GLN:HB2	2.31	0.45
1:G:404:ILE:HG12	1:G:478:PHE:CE1	2.52	0.45
1:G:575:LEU:O	1:G:578:ILE:HG22	2.16	0.45
1:G:876:GLU:O	1:G:880:GLU:HG3	2.16	0.45
1:G:1024:TYR:CZ	1:G:1032:LYS:HG3	2.52	0.45
1:G:1091:GLU:HG2	1:G:1213:PHE:CD1	2.52	0.45
1:G:2349:ASN:O	1:G:2353:VAL:HG23	2.16	0.45
1:A:235:ALA:HB2	1:A:257:ARG:NH1	2.31	0.45
1:A:293:LEU:HG	1:A:298:GLY:HA2	1.97	0.45
1:A:371:VAL:HG22	1:A:373:LYS:H	1.81	0.45
1:A:575:LEU:O	1:A:578:ILE:HG22	2.16	0.45
1:A:580:GLU:HG3	1:A:620:LEU:HD12	1.98	0.45
1:A:629:ARG:HB3	1:A:634:GLN:OE1	2.17	0.45
1:A:1093:GLU:HG3	1:A:1148:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1211:LEU:HB3	1:A:1213:PHE:CE2	2.51	0.45
1:A:3793:MET:O	1:A:3797:THR:HG23	2.16	0.45
1:A:4655:PHE:O	1:A:4659:ILE:HG12	2.16	0.45
1:C:110:ARG:NH1	1:C:115:ARG:HB3	2.32	0.45
1:C:2248:ARG:O	1:C:2251:PHE:HB3	2.17	0.45
1:C:4720:VAL:O	1:C:4724:VAL:HG23	2.17	0.45
1:E:371:VAL:HG22	1:E:373:LYS:H	1.81	0.45
1:E:791:PHE:HB2	1:E:1626:TRP:HB3	1.99	0.45
1:E:1152:MET:HB3	1:E:1161:ILE:O	2.16	0.45
1:E:1808:ARG:NH2	1:E:1855:GLY:H	2.14	0.45
1:E:2434:GLY:O	1:E:2508:ARG:HG3	2.16	0.45
1:E:2802:LYS:O	1:E:2806:ARG:HG3	2.17	0.45
1:E:4583:SER:H	1:E:4628:VAL:HB	1.81	0.45
1:E:5000:GLU:HA	1:E:5003:HIS:CE1	2.52	0.45
2:F:40:ARG:C	2:F:43:ASN:H	2.24	0.45
1:G:255:HIS:NE2	1:G:480:GLU:OE2	2.49	0.45
1:G:1141:ARG:NH1	1:G:1167:GLU:OE1	2.48	0.45
1:G:1770:SER:OG	1:G:1771:LEU:N	2.49	0.45
1:G:3771:HIS:CG	1:G:3812:VAL:HG22	2.51	0.45
1:G:4103:PHE:HB2	1:G:4108:ILE:HD11	1.98	0.45
1:G:4666:VAL:HB	1:G:4667:PRO:HD3	1.98	0.45
1:G:4717:ASP:O	1:G:4720:VAL:HG23	2.17	0.45
1:G:4991:PHE:CE2	1:G:5010:VAL:HG11	2.51	0.45
1:A:14:LEU:HD21	1:A:204:PRO:HD3	1.98	0.45
1:A:221:ARG:HG3	1:A:259:LEU:HD23	1.98	0.45
1:A:1547:LYS:O	1:A:1548:LEU:HD12	2.17	0.45
1:A:1667:LEU:HG	1:A:1714:LEU:HD11	1.98	0.45
1:A:1738:LEU:N	1:A:2144:ILE:O	2.48	0.45
1:A:2071:ARG:O	1:A:2072:LEU:HG	2.17	0.45
1:A:4235:VAL:HG21	1:A:5019:TRP:HE1	1.80	0.45
1:A:4892:ARG:HH12	1:C:4899:ASP:H	1.61	0.45
1:A:4913:ARG:O	1:A:4916:PHE:HB3	2.17	0.45
1:C:24:CYS:SG	1:C:182:LEU:HD13	2.56	0.45
1:C:575:LEU:O	1:C:578:ILE:HG22	2.16	0.45
1:C:791:PHE:HB2	1:C:1626:TRP:HB3	1.99	0.45
1:C:2121:PHE:O	1:C:3725:TYR:OH	2.28	0.45
1:C:3793:MET:O	1:C:3797:THR:HG23	2.16	0.45
1:C:3817:LEU:HD13	1:C:3899:PHE:HD1	1.82	0.45
1:C:3825:GLU:OE2	1:C:3828:PHE:HB2	2.16	0.45
1:C:4963:ILE:HD12	1:C:5027:CYS:HB3	1.97	0.45
1:C:5017:ARG:HB3	1:C:5019:TRP:CZ3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:404:ILE:HG12	1:E:478:PHE:CE1	2.52	0.45
1:E:765:GLN:HG3	1:E:1479:GLU:N	2.32	0.45
1:E:1261:ASP:HB2	1:E:1595:LEU:HD13	1.98	0.45
1:E:2071:ARG:O	1:E:2072:LEU:HG	2.16	0.45
1:E:4655:PHE:O	1:E:4659:ILE:HG12	2.16	0.45
1:E:4922:PHE:HA	1:E:4926:VAL:HB	1.98	0.45
1:G:1211:LEU:HB3	1:G:1213:PHE:CE2	2.52	0.45
1:G:1721:GLU:O	1:G:1725:ARG:HG2	2.16	0.45
1:G:2917:ALA:HA	1:G:2920:ARG:HB3	1.99	0.45
1:G:4175:ARG:N	1:G:4176:PRO:CD	2.80	0.45
1:A:111:HIS:NE2	1:A:113:HIS:HB3	2.32	0.45
1:A:1091:GLU:HG2	1:A:1213:PHE:CD1	2.52	0.45
1:A:1712:TYR:O	1:A:1716:ILE:HG12	2.17	0.45
1:A:1737:PRO:HB2	1:A:1739:THR:HG23	1.98	0.45
1:A:4583:SER:H	1:A:4628:VAL:HB	1.82	0.45
1:A:4826:ILE:O	1:A:4829:SER:HB2	2.17	0.45
1:C:221:ARG:HG3	1:C:259:LEU:HD23	1.98	0.45
1:C:308:HIS:CE1	1:C:310:LYS:HB2	2.51	0.45
1:C:479:GLN:HE22	1:C:484:LEU:HD22	1.81	0.45
1:C:1211:LEU:HB3	1:C:1213:PHE:CE2	2.52	0.45
1:C:1295:VAL:HG12	1:C:1580:PHE:HE1	1.82	0.45
1:C:2862:LEU:HD21	1:C:2929:PHE:CD1	2.49	0.45
1:E:2036:GLN:CB	1:E:3652:MET:HE2	2.46	0.45
1:E:2299:VAL:HG11	1:E:2356:LEU:HB2	1.98	0.45
1:G:1089:TYR:CE2	1:G:1091:GLU:OE2	2.70	0.45
1:G:1547:LYS:O	1:G:1548:LEU:HD12	2.17	0.45
1:G:1667:LEU:HG	1:G:1714:LEU:HD11	1.98	0.45
1:G:1690:ASP:OD1	2:H:41:ASP:HB3	2.17	0.45
1:G:4648:LEU:HD23	1:G:4803:HIS:NE2	2.32	0.45
1:A:404:ILE:HG12	1:A:478:PHE:CE1	2.52	0.45
1:A:758:ARG:NH1	1:A:763:PRO:HG3	2.31	0.45
1:A:1152:MET:HB3	1:A:1161:ILE:O	2.17	0.45
1:C:404:ILE:HG12	1:C:478:PHE:CE1	2.52	0.45
1:C:639:ASN:OD1	1:C:640:TYR:N	2.49	0.45
1:C:716:PHE:N	1:C:738:LEU:HD13	2.32	0.45
1:C:1297:PHE:CD2	1:C:1545:ASN:HA	2.51	0.45
1:C:2071:ARG:O	1:C:2072:LEU:HG	2.16	0.45
1:C:2349:ASN:O	1:C:2353:VAL:HG23	2.16	0.45
1:C:2452:ARG:NH2	1:E:174:VAL:O	2.48	0.45
1:C:4205:TRP:HZ2	1:C:4214:LYS:HD3	1.82	0.45
1:C:4583:SER:H	1:C:4628:VAL:HB	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1079:LYS:HG3	1:E:1237:TRP:HZ3	1.80	0.45
1:E:2204:HIS:O	1:E:2208:MET:N	2.42	0.45
1:E:3793:MET:O	1:E:3797:THR:HG23	2.16	0.45
1:G:215:THR:HA	1:G:273:HIS:HA	1.99	0.45
1:G:235:ALA:HB2	1:G:257:ARG:NH1	2.31	0.45
1:G:667:MET:HG2	1:G:743:VAL:HG22	1.99	0.45
1:G:1621:GLY:HA2	1:G:1628:VAL:HA	1.98	0.45
1:G:2761:TYR:CE2	1:G:2862:LEU:HD22	2.52	0.45
1:G:4826:ILE:O	1:G:4829:SER:HB2	2.16	0.45
1:A:1089:TYR:CE2	1:A:1091:GLU:OE2	2.70	0.45
1:A:1297:PHE:CD2	1:A:1545:ASN:HA	2.52	0.45
1:A:1728:ARG:O	1:A:1731:LEU:HB3	2.17	0.45
1:A:1778:SER:N	1:A:1799:SER:O	2.36	0.45
1:A:2066:LEU:O	1:A:2070:VAL:HG23	2.17	0.45
1:A:2735:PHE:HE1	1:A:2907:PRO:HG3	1.80	0.45
1:A:4238:CYS:O	1:A:4242:ILE:HG13	2.17	0.45
1:C:178:ARG:HG2	1:C:195:PHE:CD1	2.52	0.45
1:C:526:LEU:O	1:C:530:ILE:HG13	2.16	0.45
1:C:669:ASP:OD2	1:C:790:ARG:HB2	2.17	0.45
1:C:876:GLU:O	1:C:880:GLU:HG3	2.16	0.45
1:C:1101:ARG:HB2	1:C:1193:SER:OG	2.17	0.45
1:C:3937:TYR:HA	1:C:3940:LYS:HZ3	1.82	0.45
1:E:42:PHE:HA	1:E:447:ASP:OD2	2.16	0.45
1:E:600:LEU:HD21	1:E:1666:THR:HG22	1.99	0.45
1:E:1211:LEU:HB3	1:E:1213:PHE:CE2	2.52	0.45
1:E:1690:ASP:OD1	2:F:41:ASP:HB3	2.16	0.45
1:E:1712:TYR:O	1:E:1716:ILE:HG12	2.17	0.45
1:E:2495:VAL:HA	1:E:2498:HIS:HD2	1.81	0.45
1:E:4826:ILE:HG21	1:G:4931:ILE:HD11	1.86	0.45
1:E:4889:VAL:HG22	1:E:4892:ARG:NH2	2.31	0.45
1:G:42:PHE:HA	1:G:447:ASP:OD2	2.17	0.45
1:G:639:ASN:OD1	1:G:640:TYR:N	2.49	0.45
1:G:830:ARG:NH1	1:G:1612:PHE:CE2	2.85	0.45
1:G:1457:TYR:C	1:G:1458:HIS:CG	2.95	0.45
1:G:1616:GLU:O	1:G:1634:LEU:HD11	2.17	0.45
1:G:1848:LEU:HD11	1:G:1853:ILE:HD12	1.98	0.45
1:G:2071:ARG:O	1:G:2072:LEU:HG	2.16	0.45
1:G:3102:ASP:O	1:G:3106:MET:N	2.49	0.45
1:G:3695:PRO:HB2	1:G:3700:GLN:HE21	1.82	0.45
1:A:255:HIS:NE2	1:A:480:GLU:OE2	2.50	0.45
1:A:1255:TYR:CE1	1:A:1287:LEU:HD11	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1770:SER:OG	1:A:1771:LEU:N	2.49	0.45
1:A:2867:LEU:CD1	1:A:2924:GLN:HG2	2.47	0.45
1:C:622:THR:O	1:C:627:PRO:HD3	2.17	0.45
1:C:629:ARG:HB3	1:C:634:GLN:OE1	2.17	0.45
1:C:1089:TYR:CE2	1:C:1091:GLU:OE2	2.70	0.45
1:C:4154:VAL:HA	1:C:4155:PRO:HD2	1.82	0.45
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.16	0.45
1:C:4913:ARG:O	1:C:4916:PHE:HB3	2.17	0.45
2:D:67:SER:O	2:D:103:LEU:HD23	2.17	0.45
1:E:178:ARG:HG2	1:E:195:PHE:CD1	2.52	0.45
1:E:689:THR:OG1	1:E:690:GLU:N	2.50	0.45
1:E:2817:ILE:C	1:E:2820:GLU:H	2.24	0.45
1:E:3995:VAL:O	1:E:3999:MET:HB3	2.16	0.45
1:E:4205:TRP:HZ2	1:E:4214:LYS:HD3	1.82	0.45
1:E:4826:ILE:O	1:E:4829:SER:HB2	2.17	0.45
1:E:4865:LYS:NZ	1:E:4876:CYS:N	2.65	0.45
1:G:110:ARG:HH11	1:G:115:ARG:HB3	1.82	0.45
1:G:716:PHE:N	1:G:738:LEU:HD13	2.32	0.45
1:G:1182:ILE:HD12	1:G:1188:PHE:CE2	2.51	0.45
1:G:1255:TYR:CE1	1:G:1287:LEU:HD11	2.52	0.45
1:G:1662:PHE:O	1:G:1666:THR:HG23	2.17	0.45
1:G:2116:LEU:O	1:G:2120:MET:HG3	2.17	0.45
1:G:4666:VAL:HG13	1:G:4783:ILE:HG12	1.99	0.45
1:G:4799:SER:OG	1:G:4812:HIS:NE2	2.31	0.45
1:G:4978:HIS:HA	1:G:4982:GLU:CG	2.46	0.45
1:A:42:PHE:HA	1:A:447:ASP:OD2	2.17	0.44
1:A:552:ASP:HB3	1:A:1594:ARG:NH1	2.32	0.44
1:A:568:LEU:HD22	1:A:575:LEU:HD23	2.00	0.44
1:A:1107:PRO:HB2	1:A:1186:ASP:OD2	2.17	0.44
1:A:1514:LEU:C	1:A:1515:VAL:CG2	2.89	0.44
1:A:2186:MET:HE2	1:A:2235:PHE:HD1	1.82	0.44
1:A:2248:ARG:O	1:A:2251:PHE:HB3	2.17	0.44
1:A:4720:VAL:O	1:A:4724:VAL:HG23	2.17	0.44
1:A:4974:GLY:O	1:A:4977:THR:OG1	2.27	0.44
1:C:235:ALA:HB2	1:C:257:ARG:NH1	2.32	0.44
1:C:552:ASP:HB3	1:C:1594:ARG:NH1	2.32	0.44
1:C:765:GLN:HG3	1:C:1479:GLU:N	2.32	0.44
1:C:1514:LEU:C	1:C:1515:VAL:CG2	2.90	0.44
1:C:1662:PHE:O	1:C:1666:THR:HG23	2.17	0.44
1:C:1728:ARG:O	1:C:1731:LEU:HB3	2.17	0.44
1:C:1962:ALA:O	1:C:1966:VAL:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3775:ALA:HA	1:C:3778:MET:HG2	1.99	0.44
1:C:4937:ILE:HG12	1:E:4934:GLY:HA3	1.97	0.44
1:E:19:GLU:HB2	1:E:205:ILE:HB	1.99	0.44
1:E:215:THR:HA	1:E:273:HIS:HA	1.99	0.44
1:E:649:PHE:HE1	1:E:689:THR:HG22	1.82	0.44
1:E:830:ARG:NH1	1:E:1612:PHE:CE2	2.85	0.44
1:E:1139:PHE:CE1	1:E:1169:LEU:HD11	2.51	0.44
1:E:1226:PHE:HA	1:E:1229:ASN:HD22	1.81	0.44
1:E:1616:GLU:O	1:E:1634:LEU:HD11	2.17	0.44
1:E:1721:GLU:O	1:E:1725:ARG:HG2	2.16	0.44
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.98	0.44
1:E:2186:MET:HE2	1:E:2235:PHE:HD1	1.82	0.44
1:E:2248:ARG:O	1:E:2251:PHE:HB3	2.17	0.44
1:E:3958:ALA:O	1:E:3961:VAL:HG12	2.17	0.44
1:G:668:VAL:HB	1:G:740:PRO:HA	1.99	0.44
1:G:689:THR:OG1	1:G:690:GLU:N	2.50	0.44
1:G:1107:PRO:HB2	1:G:1186:ASP:OD2	2.18	0.44
1:G:4197:ILE:HD13	1:G:4202:ARG:HD3	1.99	0.44
1:G:4555:LEU:HD11	1:G:4656:LEU:HG	1.99	0.44
1:A:215:THR:HA	1:A:273:HIS:HA	1.99	0.44
1:A:495:ASN:ND2	1:A:550:LYS:HD2	2.32	0.44
1:A:622:THR:O	1:A:627:PRO:HD3	2.17	0.44
1:A:830:ARG:NH1	1:A:1612:PHE:CE2	2.85	0.44
1:A:1295:VAL:HG12	1:A:1580:PHE:HE1	1.82	0.44
1:A:1616:GLU:O	1:A:1634:LEU:HD11	2.17	0.44
1:A:1735:ILE:HD11	1:A:2156:LEU:HD11	1.99	0.44
1:A:2802:LYS:O	1:A:2806:ARG:HG3	2.17	0.44
1:A:3825:GLU:OE2	1:A:3828:PHE:HB2	2.17	0.44
1:A:4175:ARG:N	1:A:4176:PRO:CD	2.80	0.44
2:B:67:SER:O	2:B:103:LEU:HD23	2.17	0.44
1:C:26:ALA:O	1:C:33:LEU:N	2.50	0.44
1:C:66:CYS:HB2	1:C:112:ALA:CB	2.47	0.44
1:C:215:THR:HA	1:C:273:HIS:HA	2.00	0.44
1:C:521:LEU:O	1:C:525:LEU:N	2.46	0.44
1:C:1091:GLU:HG2	1:C:1213:PHE:CD1	2.52	0.44
1:C:1261:ASP:HB2	1:C:1595:LEU:HD13	1.98	0.44
1:C:2735:PHE:HD2	1:C:2891:LYS:HD2	1.82	0.44
1:E:308:HIS:CE1	1:E:310:LYS:HB2	2.52	0.44
1:E:1255:TYR:CE1	1:E:1287:LEU:HD11	2.52	0.44
1:E:3963:ASN:O	1:E:3966:THR:OG1	2.24	0.44
1:E:4150:LEU:O	1:E:4154:VAL:N	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4978:HIS:HA	1:E:4982:GLU:CG	2.46	0.44
1:G:265:LEU:HD22	1:G:281:ARG:NH2	2.33	0.44
1:G:622:THR:O	1:G:627:PRO:HD3	2.17	0.44
1:G:1712:TYR:O	1:G:1716:ILE:HG12	2.17	0.44
1:G:3778:MET:HG3	1:G:3779:VAL:N	2.32	0.44
1:G:3780:LEU:HG	1:G:3828:PHE:CE1	2.51	0.44
1:G:3983:SER:C	1:G:3985:LEU:H	2.25	0.44
1:G:4909:TYR:O	1:G:4913:ARG:N	2.51	0.44
2:H:25:HIS:CD2	2:H:104:LEU:HD11	2.52	0.44
2:H:40:ARG:C	2:H:43:ASN:H	2.24	0.44
2:H:42:ARG:C	2:H:44:LYS:H	2.25	0.44
1:A:1018:ASN:O	1:A:1021:LEU:HG	2.18	0.44
1:A:1024:TYR:CZ	1:A:1032:LYS:HG3	2.52	0.44
1:A:2817:ILE:C	1:A:2820:GLU:H	2.25	0.44
1:A:4666:VAL:HB	1:A:4667:PRO:HD3	1.99	0.44
1:C:649:PHE:HE1	1:C:689:THR:HG22	1.81	0.44
1:C:2802:LYS:O	1:C:2806:ARG:HG3	2.17	0.44
1:C:2927:LEU:HD22	1:C:2937:VAL:HG11	1.99	0.44
1:C:3781:GLN:O	1:C:3784:SER:OG	2.21	0.44
1:C:4175:ARG:N	1:C:4176:PRO:CD	2.81	0.44
1:E:265:LEU:HD22	1:E:281:ARG:NH2	2.32	0.44
1:E:874:LEU:HA	1:E:877:ASN:HB3	1.99	0.44
1:E:1662:PHE:O	1:E:1666:THR:HG23	2.17	0.44
1:E:3882:GLN:HE22	1:E:3956:SER:HB3	1.82	0.44
1:E:4967:TYR:OH	1:E:5030:LYS:HA	2.18	0.44
1:G:580:GLU:HG3	1:G:620:LEU:HD12	1.98	0.44
1:G:589:LEU:HG	1:G:593:HIS:CD2	2.47	0.44
1:G:1018:ASN:O	1:G:1021:LEU:HG	2.18	0.44
1:G:1738:LEU:N	1:G:2144:ILE:O	2.47	0.44
1:G:3805:LEU:HB2	1:G:3890:LEU:HD23	1.99	0.44
1:A:595:ARG:HH12	1:A:1641:ILE:HD13	1.82	0.44
1:A:597:HIS:HB3	1:A:1665:HIS:CD2	2.53	0.44
1:A:1101:ARG:HB2	1:A:1193:SER:OG	2.17	0.44
1:C:371:VAL:HG22	1:C:373:LYS:H	1.81	0.44
1:C:497:TYR:HB2	1:C:506:TYR:CE1	2.53	0.44
1:C:3958:ALA:O	1:C:3961:VAL:HG12	2.17	0.44
2:D:16:PRO:HG2	2:D:63:VAL:HG12	2.00	0.44
1:E:622:THR:O	1:E:627:PRO:HD3	2.18	0.44
1:E:4175:ARG:N	1:E:4176:PRO:CD	2.81	0.44
1:E:4666:VAL:HB	1:E:4667:PRO:HD3	1.99	0.44
1:G:1226:PHE:HA	1:G:1229:ASN:HD22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1295:VAL:HG12	1:G:1580:PHE:HE1	1.82	0.44
1:G:1514:LEU:C	1:G:1515:VAL:CG2	2.89	0.44
1:G:2103:VAL:O	1:G:2107:GLN:HG3	2.17	0.44
1:G:2186:MET:HE2	1:G:2235:PHE:HD1	1.83	0.44
1:G:2326:CYS:O	1:G:2329:GLU:HG2	2.16	0.44
1:G:2893:GLU:HG2	1:G:2897:LYS:NZ	2.32	0.44
1:G:4710:SER:O	1:G:4713:SER:OG	2.28	0.44
1:G:4958:CYS:SG	1:G:4959:PHE:N	2.89	0.44
1:A:26:ALA:O	1:A:33:LEU:N	2.50	0.44
1:A:669:ASP:OD2	1:A:790:ARG:HB2	2.17	0.44
1:A:791:PHE:HB2	1:A:1626:TRP:HB3	1.99	0.44
1:A:1849:LEU:HD13	1:A:1854:PHE:HD2	1.83	0.44
1:A:2116:LEU:O	1:A:2120:MET:HG3	2.18	0.44
1:A:3980:LEU:HD21	1:A:3985:LEU:HD13	2.00	0.44
1:A:5000:GLU:HA	1:A:5003:HIS:CE1	2.52	0.44
1:C:874:LEU:HA	1:C:877:ASN:HB3	1.99	0.44
1:C:4655:PHE:O	1:C:4659:ILE:HG12	2.16	0.44
1:C:4671:PHE:HE1	1:C:4715:TYR:HA	1.83	0.44
1:C:4967:TYR:OH	1:C:5030:LYS:HA	2.18	0.44
1:E:42:PHE:HE1	1:E:116:MET:HE3	1.83	0.44
1:E:66:CYS:HB2	1:E:112:ALA:CB	2.48	0.44
1:E:765:GLN:HB3	1:E:1477:GLY:H	1.83	0.44
1:E:1024:TYR:CZ	1:E:1032:LYS:HG3	2.52	0.44
1:E:1182:ILE:HD12	1:E:1188:PHE:CE2	2.51	0.44
1:E:1737:PRO:HB2	1:E:1739:THR:HG23	1.99	0.44
1:E:2152:THR:HG22	1:E:2190:VAL:HG11	2.00	0.44
1:E:3781:GLN:O	1:E:3784:SER:OG	2.21	0.44
2:F:27:THR:HA	2:F:38:SER:HA	2.00	0.44
1:G:178:ARG:HG2	1:G:195:PHE:CD1	2.52	0.44
1:G:308:HIS:CE1	1:G:310:LYS:HB2	2.51	0.44
1:G:371:VAL:HG22	1:G:373:LYS:H	1.81	0.44
1:G:552:ASP:HB3	1:G:1594:ARG:NH1	2.32	0.44
1:G:629:ARG:HB3	1:G:634:GLN:OE1	2.17	0.44
1:G:1101:ARG:HB2	1:G:1193:SER:OG	2.17	0.44
1:G:1214:PHE:CZ	1:G:1219:LEU:HB2	2.53	0.44
1:G:1261:ASP:HB2	1:G:1595:LEU:HD13	1.98	0.44
1:G:3835:LEU:HD21	1:G:3880:PHE:CZ	2.53	0.44
1:G:4024:VAL:O	1:G:4028:LEU:N	2.37	0.44
1:A:22:LEU:HB3	1:A:200:TRP:CE3	2.53	0.44
1:A:24:CYS:SG	1:A:182:LEU:HD13	2.57	0.44
1:A:205:ILE:HG22	1:A:271:GLY:HA3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:ARG:HE	1:A:287:THR:HG22	1.82	0.44
1:A:689:THR:OG1	1:A:690:GLU:N	2.50	0.44
1:A:2452:ARG:NH2	1:C:174:VAL:O	2.49	0.44
1:A:3780:LEU:HD22	1:A:3819:TYR:CD2	2.53	0.44
1:A:3882:GLN:HE22	1:A:3956:SER:HB3	1.82	0.44
1:A:4205:TRP:HZ2	1:A:4214:LYS:HD3	1.82	0.44
1:C:242:ARG:HE	1:C:287:THR:HG22	1.83	0.44
1:C:265:LEU:HD22	1:C:281:ARG:NH2	2.33	0.44
1:C:1214:PHE:CZ	1:C:1219:LEU:HB2	2.53	0.44
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.98	0.44
1:C:2114:PRO:O	1:C:2116:LEU:N	2.45	0.44
1:C:4826:ILE:O	1:C:4829:SER:HB2	2.18	0.44
2:D:21:THR:HB	2:D:107:GLU:HB2	2.00	0.44
1:E:242:ARG:HE	1:E:287:THR:HG22	1.83	0.44
1:E:495:ASN:ND2	1:E:550:LYS:HD2	2.32	0.44
1:E:497:TYR:HB2	1:E:506:TYR:CE1	2.53	0.44
1:E:552:ASP:HB3	1:E:1594:ARG:NH1	2.32	0.44
1:E:1089:TYR:CE2	1:E:1091:GLU:OE2	2.70	0.44
1:E:2060:SER:HA	1:E:2063:LEU:HD12	1.98	0.44
1:E:4720:VAL:O	1:E:4724:VAL:HG23	2.17	0.44
1:E:4928:LEU:HA	1:E:4931:ILE:HG22	1.99	0.44
1:G:438:ILE:HG23	1:G:518:ILE:HD11	2.00	0.44
1:G:568:LEU:HD22	1:G:575:LEU:HD23	2.00	0.44
1:G:597:HIS:HB3	1:G:1665:HIS:CD2	2.53	0.44
1:G:791:PHE:HB2	1:G:1626:TRP:HB3	1.99	0.44
1:G:2060:SER:HA	1:G:2063:LEU:HD12	1.98	0.44
1:G:4041:ALA:O	1:G:4044:MET:HG2	2.17	0.44
1:G:4645:CYS:O	1:G:4649:LEU:N	2.46	0.44
1:G:4791:TYR:HD2	1:G:4792:LEU:HD12	1.83	0.44
1:A:178:ARG:HG2	1:A:195:PHE:CD1	2.52	0.44
1:A:294:THR:O	1:A:298:GLY:N	2.51	0.44
1:A:395:GLN:NE2	1:A:399:GLN:HB2	2.32	0.44
1:A:589:LEU:HG	1:A:593:HIS:CD2	2.47	0.44
1:A:600:LEU:HD21	1:A:1666:THR:HG22	1.99	0.44
1:A:3817:LEU:HD13	1:A:3899:PHE:HD1	1.83	0.44
1:C:830:ARG:NH1	1:C:1612:PHE:CE2	2.85	0.44
1:C:1255:TYR:CE1	1:C:1287:LEU:HD11	2.52	0.44
1:C:1716:ILE:HD13	1:C:1720:LEU:HD12	2.00	0.44
1:C:1737:PRO:HB2	1:C:1739:THR:HG23	1.99	0.44
1:C:2920:ARG:O	1:C:2924:GLN:HG3	2.18	0.44
1:C:4045:VAL:HG22	1:C:4160:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4666:VAL:HB	1:C:4667:PRO:HD3	2.00	0.44
1:C:4865:LYS:NZ	1:C:4876:CYS:N	2.66	0.44
1:C:5013:MET:O	1:C:5017:ARG:N	2.51	0.44
1:E:706:GLY:CA	1:E:711:LEU:HD22	2.42	0.44
1:E:1738:LEU:N	1:E:2144:ILE:O	2.48	0.44
1:E:2116:LEU:O	1:E:2120:MET:HG3	2.17	0.44
1:E:2735:PHE:HD2	1:E:2891:LYS:HD2	1.82	0.44
1:E:3838:THR:OG1	1:E:3839:CYS:N	2.51	0.44
1:E:4631:PHE:CZ	1:E:4639:MET:HE3	2.53	0.44
1:E:4913:ARG:O	1:E:4916:PHE:HB3	2.17	0.44
1:E:5013:MET:O	1:E:5017:ARG:N	2.51	0.44
2:F:16:PRO:HG2	2:F:63:VAL:HG12	2.00	0.44
1:G:66:CYS:HB2	1:G:112:ALA:CB	2.47	0.44
1:G:465:GLN:NE2	1:G:3712:GLU:OE1	2.50	0.44
1:G:497:TYR:HB2	1:G:506:TYR:CE1	2.53	0.44
1:G:1728:ARG:O	1:G:1731:LEU:HB3	2.17	0.44
1:G:2107:GLN:HE21	1:G:3679:LYS:HB2	1.83	0.44
1:G:2470:ILE:O	1:G:2474:LEU:N	2.40	0.44
1:A:19:GLU:HB2	1:A:205:ILE:HB	1.99	0.44
1:A:265:LEU:HD22	1:A:281:ARG:NH2	2.32	0.44
1:A:497:TYR:HB2	1:A:506:TYR:CE1	2.53	0.44
1:A:1436:SER:CA	1:A:1516:ILE:HA	2.48	0.44
1:A:1457:TYR:O	1:A:1458:HIS:CG	2.70	0.44
1:C:1182:ILE:HD12	1:C:1188:PHE:CE2	2.51	0.44
1:C:1586:ASN:O	1:C:1588:ALA:N	2.43	0.44
1:C:2066:LEU:O	1:C:2070:VAL:HG23	2.17	0.44
1:C:2748:PRO:HD2	1:C:2751:LEU:HD12	2.00	0.44
1:C:3780:LEU:HD22	1:C:3819:TYR:CD2	2.53	0.44
1:E:568:LEU:HD22	1:E:575:LEU:HD23	2.00	0.44
1:E:1091:GLU:HG2	1:E:1213:PHE:CD1	2.52	0.44
1:E:1101:ARG:HB2	1:E:1193:SER:OG	2.17	0.44
1:E:1214:PHE:CZ	1:E:1219:LEU:HB2	2.53	0.44
1:E:1728:ARG:O	1:E:1731:LEU:HB3	2.17	0.44
1:G:19:GLU:HB2	1:G:205:ILE:HB	1.99	0.44
1:G:543:ASN:O	1:G:546:TRP:HB3	2.18	0.44
1:G:745:SER:OG	1:G:758:ARG:HB2	2.18	0.44
1:G:765:GLN:HG3	1:G:1479:GLU:N	2.32	0.44
1:G:3710:LEU:HD23	1:G:3710:LEU:HA	1.83	0.44
1:A:438:ILE:HG23	1:A:518:ILE:HD11	2.00	0.44
1:A:745:SER:OG	1:A:758:ARG:HB2	2.18	0.44
1:A:827:LYS:HG2	1:A:1073:ARG:NH2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2735:PHE:HD2	1:A:2891:LYS:HD2	1.82	0.44
1:A:2917:ALA:HA	1:A:2920:ARG:HB3	2.00	0.44
1:A:3775:ALA:HA	1:A:3778:MET:HG2	2.00	0.44
1:A:5022:PHE:HA	1:A:5023:PRO:HD3	1.87	0.44
2:B:42:ARG:C	2:B:44:LYS:H	2.26	0.44
1:C:294:THR:O	1:C:298:GLY:N	2.51	0.44
1:C:597:HIS:HB3	1:C:1665:HIS:CD2	2.53	0.44
1:C:1690:ASP:OD1	2:D:41:ASP:HB3	2.17	0.44
2:D:27:THR:HA	2:D:38:SER:HA	2.00	0.44
1:E:275:ARG:HB2	1:E:338:GLU:OE1	2.18	0.44
1:E:706:GLY:O	1:E:725:HIS:N	2.37	0.44
1:E:765:GLN:HG3	1:E:1479:GLU:H	1.83	0.44
1:E:1295:VAL:HG12	1:E:1580:PHE:HE1	1.82	0.44
1:E:2045:GLN:O	1:E:2064:ARG:NH2	2.40	0.44
1:E:4855:ALA:HB1	1:E:4863:TYR:CE2	2.53	0.44
1:G:22:LEU:HB3	1:G:200:TRP:CE3	2.53	0.44
1:G:600:LEU:HD21	1:G:1666:THR:HG22	1.99	0.44
1:G:639:ASN:HD21	1:G:785:ALA:HB2	1.83	0.44
1:G:874:LEU:HA	1:G:877:ASN:HB3	1.99	0.44
1:G:1660:GLN:HG3	1:G:1707:LEU:HD11	2.00	0.44
2:H:67:SER:O	2:H:103:LEU:HD23	2.18	0.44
1:A:66:CYS:HB2	1:A:112:ALA:CB	2.48	0.43
1:A:1182:ILE:HD12	1:A:1188:PHE:CE2	2.51	0.43
1:A:3761:GLN:NE2	1:A:4722:ARG:HH22	2.16	0.43
1:A:3958:ALA:O	1:A:3961:VAL:HG12	2.17	0.43
1:A:4865:LYS:NZ	1:A:4876:CYS:N	2.66	0.43
1:C:205:ILE:HG22	1:C:271:GLY:HA3	2.00	0.43
1:C:1106:ARG:HG2	1:C:1188:PHE:CD1	2.53	0.43
1:C:2251:PHE:CG	1:C:2286:LEU:HD22	2.53	0.43
1:C:2917:ALA:HA	1:C:2920:ARG:HB3	2.00	0.43
1:C:3371:LYS:HA	1:C:3374:ALA:HB3	2.00	0.43
1:C:4238:CYS:O	1:C:4242:ILE:HG13	2.17	0.43
1:E:548:VAL:HG21	1:E:582:HIS:HB3	2.00	0.43
1:E:1849:LEU:HD13	1:E:1854:PHE:HD2	1.83	0.43
1:E:2066:LEU:O	1:E:2070:VAL:HG23	2.17	0.43
1:E:4188:ARG:HD3	1:E:4188:ARG:HA	1.86	0.43
1:E:4208:PRO:HB2	1:E:4209:GLN:H	1.59	0.43
1:E:4235:VAL:HG21	1:E:5019:TRP:HE1	1.81	0.43
1:G:1440:PHE:HD2	1:G:1560:ASN:HB3	1.83	0.43
1:G:1710:GLY:O	1:G:1714:LEU:HG	2.18	0.43
1:G:2251:PHE:CG	1:G:2286:LEU:HD22	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4928:LEU:O	1:G:4931:ILE:HG22	2.18	0.43
1:A:275:ARG:HB2	1:A:338:GLU:OE1	2.18	0.43
1:A:543:ASN:O	1:A:546:TRP:HB3	2.19	0.43
1:A:649:PHE:HE1	1:A:689:THR:HG22	1.81	0.43
1:A:2142:TYR:HD2	1:A:2197:LEU:HD12	1.83	0.43
1:A:3817:LEU:HD13	1:A:3899:PHE:CD1	2.53	0.43
1:A:4715:TYR:CD2	1:A:4717:ASP:HB3	2.53	0.43
1:A:4879:MET:HG2	1:G:4578:LEU:O	2.17	0.43
1:A:4922:PHE:HA	1:A:4926:VAL:HB	1.99	0.43
2:B:21:THR:HB	2:B:107:GLU:HB2	2.00	0.43
1:C:42:PHE:HE1	1:C:116:MET:HE3	1.83	0.43
1:C:42:PHE:HA	1:C:447:ASP:OD2	2.17	0.43
1:C:1455:PRO:HG2	1:C:1547:LYS:HE3	2.00	0.43
1:C:1966:VAL:HG21	1:C:3650:CYS:SG	2.58	0.43
1:C:3882:GLN:HE22	1:C:3956:SER:HB3	1.82	0.43
1:E:22:LEU:HB3	1:E:200:TRP:CE3	2.53	0.43
1:E:294:THR:O	1:E:298:GLY:N	2.51	0.43
1:E:750:LEU:C	1:E:751:SER:HG	2.24	0.43
1:E:1018:ASN:O	1:E:1021:LEU:HG	2.17	0.43
1:E:1079:LYS:HZ3	1:E:1107:PRO:HB3	1.83	0.43
1:E:1252:HIS:HD2	1:E:1255:TYR:HD2	1.66	0.43
1:E:1547:LYS:O	1:E:1548:LEU:HD12	2.17	0.43
1:E:2917:ALA:HA	1:E:2920:ARG:HB3	2.00	0.43
1:E:2924:GLN:HG2	1:E:2928:LYS:HE2	2.00	0.43
1:E:4238:CYS:O	1:E:4242:ILE:HG13	2.17	0.43
1:G:1737:PRO:HB2	1:G:1739:THR:HG23	1.99	0.43
1:G:2152:THR:HG22	1:G:2190:VAL:HG11	2.00	0.43
1:G:2248:ARG:O	1:G:2251:PHE:HB3	2.17	0.43
1:A:1115:LEU:HD11	1:A:1191:VAL:HG11	2.00	0.43
1:A:1254:HIS:NE2	1:A:1280:GLN:HB3	2.34	0.43
1:A:2060:SER:HA	1:A:2063:LEU:HD12	1.99	0.43
1:A:3716:LEU:HB3	1:A:3789:GLU:OE1	2.18	0.43
1:C:438:ILE:HG23	1:C:518:ILE:HD11	2.00	0.43
1:C:724:GLY:C	1:C:726:VAL:H	2.26	0.43
1:C:1018:ASN:O	1:C:1021:LEU:HG	2.18	0.43
1:C:1735:ILE:HD11	1:C:2156:LEU:HD11	1.99	0.43
1:E:24:CYS:HB2	1:E:200:TRP:CZ3	2.54	0.43
1:E:110:ARG:HH11	1:E:115:ARG:HE	1.65	0.43
1:E:827:LYS:HG2	1:E:1073:ARG:NH2	2.33	0.43
1:E:1440:PHE:HD2	1:E:1560:ASN:HB3	1.83	0.43
1:E:1710:GLY:O	1:E:1714:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4055:VAL:O	1:E:4058:ILE:HG13	2.18	0.43
2:F:21:THR:HB	2:F:107:GLU:HB2	2.00	0.43
1:G:26:ALA:O	1:G:33:LEU:N	2.50	0.43
1:G:829:TYR:HA	1:G:1073:ARG:HH12	1.82	0.43
1:G:875:ALA:HB1	1:G:922:LEU:HB2	2.00	0.43
1:G:1110:ARG:HD2	1:G:1113:VAL:HG23	2.00	0.43
1:G:4721:LYS:NZ	1:G:4741:LEU:HD22	2.33	0.43
1:A:882:TRP:HH2	1:A:906:CYS:HB2	1.83	0.43
1:A:4931:ILE:CD1	1:G:4826:ILE:CG2	2.97	0.43
1:C:495:ASN:ND2	1:C:550:LYS:HD2	2.32	0.43
1:C:568:LEU:HD22	1:C:575:LEU:HD23	2.00	0.43
1:C:2152:THR:HG22	1:C:2190:VAL:HG11	2.00	0.43
1:C:2186:MET:HE2	1:C:2235:PHE:HD1	1.82	0.43
1:E:26:ALA:O	1:E:33:LEU:N	2.51	0.43
1:E:102:LEU:HB2	1:E:105:HIS:HD2	1.83	0.43
1:E:2452:ARG:NH2	1:G:174:VAL:O	2.51	0.43
1:E:3716:LEU:HB3	1:E:3789:GLU:OE1	2.18	0.43
1:E:3817:LEU:HD13	1:E:3899:PHE:CD1	2.53	0.43
1:G:132:ALA:HB1	1:G:193:ALA:O	2.19	0.43
1:G:736:HIS:HE1	1:G:739:ALA:HB3	1.83	0.43
1:G:2114:PRO:O	1:G:2116:LEU:N	2.43	0.43
1:G:2816:MET:O	1:G:2820:GLU:N	2.51	0.43
1:G:4928:LEU:O	1:G:4932:ILE:HD12	2.17	0.43
1:A:521:LEU:O	1:A:525:LEU:N	2.46	0.43
1:A:2198:MET:SD	1:A:2203:MET:HE1	2.59	0.43
1:A:2496:PRO:HB3	1:A:2553:TYR:CZ	2.53	0.43
1:A:2927:LEU:HD22	1:A:2937:VAL:HG11	2.00	0.43
1:A:4967:TYR:OH	1:A:5030:LYS:HA	2.18	0.43
2:B:73:LYS:HA	2:B:99:PHE:O	2.18	0.43
1:C:548:VAL:HG21	1:C:582:HIS:HB3	2.01	0.43
1:C:564:LEU:O	1:C:568:LEU:HG	2.19	0.43
1:C:827:LYS:HG2	1:C:1073:ARG:NH2	2.33	0.43
1:C:1247:PRO:HB3	1:C:1600:LEU:HD13	2.00	0.43
1:C:1547:LYS:O	1:C:1548:LEU:HD12	2.17	0.43
1:C:1616:GLU:O	1:C:1634:LEU:HD11	2.17	0.43
1:C:1710:GLY:O	1:C:1714:LEU:HG	2.18	0.43
1:C:2116:LEU:O	1:C:2120:MET:HG3	2.18	0.43
1:C:2295:LEU:HD13	1:C:2353:VAL:HG22	2.01	0.43
1:C:3817:LEU:HD13	1:C:3899:PHE:CD1	2.53	0.43
1:E:132:ALA:HB1	1:E:193:ALA:O	2.19	0.43
1:E:669:ASP:OD2	1:E:790:ARG:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:882:TRP:HH2	1:E:906:CYS:HB2	1.83	0.43
1:E:2251:PHE:CG	1:E:2286:LEU:HD22	2.53	0.43
1:E:4688:ILE:HG21	1:E:4728:HIS:HB3	2.01	0.43
1:G:205:ILE:HG22	1:G:271:GLY:HA3	2.00	0.43
1:G:220:LEU:CD1	1:G:390:LEU:HD22	2.48	0.43
1:G:706:GLY:CA	1:G:711:LEU:HD22	2.42	0.43
1:G:827:LYS:HG2	1:G:1073:ARG:NH2	2.33	0.43
1:G:1254:HIS:NE2	1:G:1280:GLN:HB3	2.34	0.43
1:G:1849:LEU:HD13	1:G:1854:PHE:HD2	1.83	0.43
1:G:2129:ASP:OD2	1:G:3667:HIS:ND1	2.48	0.43
1:G:2198:MET:SD	1:G:2203:MET:HE1	2.59	0.43
1:G:2802:LYS:O	1:G:2806:ARG:HG3	2.19	0.43
1:G:4003:LEU:HD13	1:G:4013:LEU:HA	2.01	0.43
1:G:4851:TYR:HD2	1:G:4916:PHE:CE1	2.36	0.43
1:A:874:LEU:HA	1:A:877:ASN:HB3	1.99	0.43
1:A:1662:PHE:O	1:A:1666:THR:HG23	2.18	0.43
1:A:1853:ILE:HG22	1:A:1854:PHE:N	2.34	0.43
1:A:2924:GLN:O	1:A:2928:LYS:HB2	2.18	0.43
1:A:3670:GLU:OE1	1:A:3731:LYS:HB2	2.19	0.43
1:A:3878:ASP:HB2	1:A:3957:VAL:HG21	2.01	0.43
1:A:4826:ILE:HG21	1:C:4931:ILE:HD11	1.91	0.43
1:C:223:PHE:CD1	1:C:230:CYS:HB3	2.54	0.43
1:C:765:GLN:HG3	1:C:1479:GLU:H	1.83	0.43
1:C:2142:TYR:HD2	1:C:2197:LEU:HD12	1.84	0.43
1:C:3980:LEU:HD21	1:C:3985:LEU:HD13	1.99	0.43
1:C:4855:ALA:HB1	1:C:4863:TYR:CE2	2.53	0.43
1:E:597:HIS:HB3	1:E:1665:HIS:CD2	2.53	0.43
1:E:1716:ILE:HD13	1:E:1720:LEU:HD12	2.00	0.43
1:E:2103:VAL:O	1:E:2107:GLN:HG3	2.19	0.43
1:E:4671:PHE:HE1	1:E:4715:TYR:HA	1.84	0.43
2:F:67:SER:O	2:F:103:LEU:HD23	2.17	0.43
1:G:1252:HIS:HD2	1:G:1255:TYR:HD2	1.67	0.43
1:G:3920:VAL:HG22	1:G:3985:LEU:HD12	2.00	0.43
1:G:4214:LYS:HD2	1:G:4985:LEU:HD23	2.00	0.43
1:G:4720:VAL:O	1:G:4724:VAL:HG23	2.17	0.43
1:G:4922:PHE:HD1	1:G:4926:VAL:HG21	1.84	0.43
1:G:4967:TYR:OH	1:G:5030:LYS:HA	2.18	0.43
1:A:103:TYR:CZ	1:A:163:VAL:HG13	2.54	0.43
1:A:265:LEU:HD21	1:A:281:ARG:H	1.84	0.43
1:A:548:VAL:HG21	1:A:582:HIS:HB3	2.01	0.43
1:A:639:ASN:HD21	1:A:785:ALA:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:765:GLN:HG3	1:A:1479:GLU:N	2.32	0.43
1:A:1027:LEU:HD12	1:A:1032:LYS:HD2	2.01	0.43
1:A:1260:MET:HB3	1:A:1274:HIS:HE1	1.84	0.43
1:A:1660:GLN:HG3	1:A:1707:LEU:HD11	2.01	0.43
1:A:4859:PHE:CE1	1:A:4913:ARG:HB2	2.54	0.43
1:A:4867:GLU:HA	1:A:4868:ASP:HA	1.79	0.43
2:B:16:PRO:HD2	2:B:64:ALA:HA	2.01	0.43
1:C:705:ASN:HD22	1:C:782:SER:CB	2.31	0.43
1:C:1079:LYS:NZ	1:C:1107:PRO:HB3	2.34	0.43
1:C:1660:GLN:HG3	1:C:1707:LEU:HD11	2.01	0.43
1:C:3937:TYR:CE2	1:C:3943:ILE:HG23	2.54	0.43
1:C:4631:PHE:CZ	1:C:4639:MET:HE3	2.53	0.43
1:C:4889:VAL:HG22	1:C:4892:ARG:NH2	2.34	0.43
1:E:745:SER:OG	1:E:758:ARG:HB2	2.18	0.43
1:E:768:PHE:HB3	1:E:771:PHE:CE1	2.53	0.43
1:E:1093:GLU:HG3	1:E:1148:VAL:HG22	2.01	0.43
1:E:1260:MET:HB3	1:E:1274:HIS:HE1	1.84	0.43
1:E:1515:VAL:HA	1:E:1530:THR:O	2.18	0.43
1:E:2198:MET:SD	1:E:2203:MET:HE1	2.59	0.43
1:E:2748:PRO:HD2	1:E:2751:LEU:HD12	2.01	0.43
1:E:3780:LEU:HD22	1:E:3819:TYR:CD2	2.53	0.43
1:E:3817:LEU:HD13	1:E:3899:PHE:HD1	1.82	0.43
1:E:3980:LEU:HD21	1:E:3985:LEU:HD13	2.00	0.43
1:E:4710:SER:O	1:E:4713:SER:OG	2.32	0.43
1:G:265:LEU:HD21	1:G:281:ARG:H	1.83	0.43
1:G:548:VAL:HG21	1:G:582:HIS:HB3	2.01	0.43
1:G:765:GLN:HB3	1:G:1477:GLY:H	1.83	0.43
1:G:1805:GLU:CD	1:G:1808:ARG:NH1	2.75	0.43
1:A:736:HIS:HE1	1:A:739:ALA:HB3	1.84	0.43
1:A:1106:ARG:HG2	1:A:1188:PHE:CD1	2.53	0.43
1:A:1141:ARG:NH1	1:A:1167:GLU:OE1	2.48	0.43
1:A:1839:VAL:HG23	1:A:1935:VAL:HG22	2.00	0.43
1:A:2103:VAL:O	1:A:2107:GLN:HG3	2.19	0.43
1:A:3794:VAL:O	1:A:3797:THR:OG1	2.25	0.43
1:A:4045:VAL:HG22	1:A:4160:LEU:HD22	2.00	0.43
2:B:16:PRO:HG2	2:B:63:VAL:HG12	2.00	0.43
1:C:19:GLU:HB2	1:C:205:ILE:HB	2.00	0.43
1:C:22:LEU:HB3	1:C:200:TRP:CE3	2.53	0.43
1:C:401:ALA:HA	1:C:404:ILE:HD12	2.00	0.43
1:C:745:SER:OG	1:C:758:ARG:HB2	2.18	0.43
1:C:1093:GLU:HG3	1:C:1148:VAL:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1440:PHE:HD2	1:C:1560:ASN:HB3	1.83	0.43
1:C:2198:MET:SD	1:C:2203:MET:HE1	2.59	0.43
1:C:3716:LEU:HB3	1:C:3789:GLU:OE1	2.19	0.43
1:E:66:CYS:HB2	1:E:112:ALA:HB2	2.00	0.43
1:E:438:ILE:HG23	1:E:518:ILE:HD11	2.00	0.43
1:E:543:ASN:O	1:E:546:TRP:HB3	2.18	0.43
1:E:990:GLU:HG3	1:E:1024:TYR:HB3	2.01	0.43
1:E:1106:ARG:HG2	1:E:1188:PHE:CD1	2.53	0.43
1:E:1110:ARG:HD2	1:E:1113:VAL:HG23	2.00	0.43
1:E:2761:TYR:CZ	1:E:2862:LEU:HD13	2.54	0.43
1:E:2803:GLU:OE2	1:E:2806:ARG:NH1	2.51	0.43
1:E:4823:LEU:CD1	1:G:4839:MET:HB3	2.45	0.43
1:E:4937:ILE:HG12	1:G:4934:GLY:HA3	2.00	0.43
1:G:24:CYS:HB2	1:G:200:TRP:CZ3	2.54	0.43
1:G:242:ARG:HH21	1:G:287:THR:HG22	1.84	0.43
1:G:275:ARG:HB2	1:G:338:GLU:OE1	2.18	0.43
1:G:495:ASN:ND2	1:G:550:LYS:HD2	2.32	0.43
1:G:765:GLN:HG3	1:G:1479:GLU:H	1.83	0.43
1:G:1455:PRO:HG2	1:G:1547:LYS:HE3	2.01	0.43
1:G:3817:LEU:HD13	1:G:3899:PHE:CD1	2.54	0.43
1:G:3833:GLN:O	1:G:3837:GLN:HG2	2.19	0.43
2:H:55:VAL:HG21	2:H:59:TRP:HD1	1.84	0.43
1:A:35:LEU:HD12	1:A:35:LEU:O	2.19	0.43
1:A:121:LEU:HD12	1:A:136:GLY:HA3	2.00	0.43
1:A:122:THR:HG23	1:A:133:PHE:CE1	2.54	0.43
1:A:242:ARG:HH21	1:A:287:THR:HG22	1.83	0.43
1:A:665:GLU:OE2	1:A:802:PHE:HB3	2.19	0.43
1:A:752:VAL:HA	1:A:753:PRO:HD3	1.79	0.43
1:A:2295:LEU:HD13	1:A:2353:VAL:HG22	2.01	0.43
1:A:3804:ILE:CG2	1:A:3812:VAL:HG11	2.49	0.43
1:A:3989:VAL:HA	1:A:4023:MET:CE	2.49	0.43
1:A:4141:PHE:O	1:A:4145:VAL:HG23	2.19	0.43
1:A:4791:TYR:HD2	1:A:4792:LEU:HD12	1.83	0.43
1:C:600:LEU:HD21	1:C:1666:THR:HG22	1.99	0.43
1:C:639:ASN:HD21	1:C:785:ALA:HB2	1.83	0.43
1:C:765:GLN:HB3	1:C:1477:GLY:H	1.83	0.43
1:C:882:TRP:HH2	1:C:906:CYS:HB2	1.83	0.43
1:C:1260:MET:HB3	1:C:1274:HIS:HE1	1.84	0.43
1:C:1853:ILE:HG22	1:C:1854:PHE:N	2.34	0.43
1:C:3710:LEU:HD23	1:C:3710:LEU:HA	1.89	0.43
1:C:4688:ILE:HG21	1:C:4728:HIS:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4715:TYR:CD2	1:C:4717:ASP:HB3	2.54	0.43
1:E:121:LEU:HD12	1:E:136:GLY:HA3	2.00	0.43
1:E:564:LEU:O	1:E:568:LEU:HG	2.19	0.43
1:E:639:ASN:HD21	1:E:785:ALA:HB2	1.84	0.43
1:E:724:GLY:C	1:E:726:VAL:H	2.27	0.43
1:E:1027:LEU:HD12	1:E:1032:LYS:HD2	2.00	0.43
1:E:3371:LYS:HA	1:E:3374:ALA:HB3	2.01	0.43
1:E:4141:PHE:O	1:E:4145:VAL:HG23	2.19	0.43
1:E:4961:CYS:SG	1:E:4983:HIS:CE1	3.06	0.43
1:G:242:ARG:HE	1:G:287:THR:HG22	1.83	0.43
1:G:294:THR:O	1:G:298:GLY:N	2.52	0.43
1:G:723:THR:HG1	1:G:728:ARG:HH12	1.64	0.43
1:G:3761:GLN:O	1:G:3765:TYR:N	2.41	0.43
1:G:3891:LEU:HD23	1:G:3899:PHE:HZ	1.83	0.43
1:G:4849:TYR:HD1	1:G:4883:TYR:CE1	2.37	0.43
1:A:23:GLN:N	1:A:201:ASN:O	2.52	0.43
1:A:74:SER:O	1:A:78:LEU:N	2.40	0.43
1:A:232:THR:HG21	1:A:248:GLU:CB	2.49	0.43
1:A:724:GLY:C	1:A:726:VAL:H	2.26	0.43
1:A:1805:GLU:CD	1:A:1808:ARG:NH1	2.75	0.43
1:A:1966:VAL:HG21	1:A:3650:CYS:SG	2.58	0.43
1:A:2057:THR:O	1:A:2060:SER:OG	2.30	0.43
1:A:5013:MET:O	1:A:5017:ARG:N	2.51	0.43
2:B:27:THR:HA	2:B:38:SER:HA	2.00	0.43
1:C:14:LEU:HD12	1:C:163:VAL:HG12	2.01	0.43
1:C:275:ARG:HB2	1:C:338:GLU:OE1	2.18	0.43
1:C:545:ASP:OD1	1:C:582:HIS:NE2	2.52	0.43
1:C:665:GLU:OE2	1:C:802:PHE:HB3	2.19	0.43
1:C:1107:PRO:HB2	1:C:1186:ASP:OD2	2.18	0.43
1:C:1849:LEU:HD13	1:C:1854:PHE:HD2	1.83	0.43
1:C:2822:THR:OG1	1:C:2938:THR:OG1	2.19	0.43
1:C:4791:TYR:HD2	1:C:4792:LEU:HD12	1.83	0.43
1:E:14:LEU:HD12	1:E:163:VAL:HG12	2.01	0.43
1:E:35:LEU:HD12	1:E:35:LEU:O	2.19	0.43
1:E:232:THR:HG21	1:E:248:GLU:CB	2.49	0.43
1:E:265:LEU:HD21	1:E:281:ARG:H	1.83	0.43
1:E:284:HIS:HD2	1:E:287:THR:HG23	1.84	0.43
1:E:456:SER:OG	1:E:458:GLU:HG2	2.19	0.43
1:E:545:ASP:OD1	1:E:582:HIS:NE2	2.52	0.43
1:E:1455:PRO:HG2	1:E:1547:LYS:HE3	2.01	0.43
1:E:1966:VAL:HG21	1:E:3650:CYS:SG	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2114:PRO:O	1:E:2116:LEU:N	2.47	0.43
1:E:2453:ILE:HA	1:E:2456:ILE:HG22	2.00	0.43
1:E:3761:GLN:NE2	1:E:4722:ARG:HH22	2.16	0.43
1:E:3927:GLN:HE21	1:E:3991:GLY:HA3	1.84	0.43
1:E:3983:SER:C	1:E:3985:LEU:H	2.27	0.43
2:F:42:ARG:C	2:F:44:LYS:H	2.26	0.43
1:G:14:LEU:HD12	1:G:163:VAL:HG12	2.01	0.43
1:G:122:THR:HG23	1:G:133:PHE:CE1	2.54	0.43
1:G:401:ALA:O	1:G:404:ILE:HB	2.19	0.43
1:G:665:GLU:OE2	1:G:802:PHE:HB3	2.19	0.43
1:G:882:TRP:HH2	1:G:906:CYS:HB2	1.82	0.43
1:G:1079:LYS:HZ3	1:G:1107:PRO:HB3	1.84	0.43
1:G:1260:MET:HB3	1:G:1274:HIS:HE1	1.84	0.43
1:G:2114:PRO:HD3	1:G:3707:ARG:HH11	1.83	0.43
1:G:2453:ILE:HA	1:G:2456:ILE:HG22	2.00	0.43
1:G:4141:PHE:O	1:G:4145:VAL:HG23	2.19	0.43
1:A:174:VAL:O	1:G:2452:ARG:NH2	2.50	0.42
1:A:590:LEU:HB2	1:A:599:VAL:HG11	2.01	0.42
1:A:722:TRP:NE1	1:A:727:ALA:HB2	2.34	0.42
1:A:757:PHE:HE2	1:A:768:PHE:HE2	1.67	0.42
1:A:1455:PRO:HG2	1:A:1547:LYS:HE3	2.01	0.42
1:A:2152:THR:HG22	1:A:2190:VAL:HG11	2.00	0.42
1:A:2251:PHE:CG	1:A:2286:LEU:HD22	2.53	0.42
1:A:2453:ILE:HA	1:A:2456:ILE:HG22	2.00	0.42
1:A:4671:PHE:HE1	1:A:4715:TYR:HA	1.83	0.42
1:C:132:ALA:HB1	1:C:193:ALA:O	2.19	0.42
1:C:242:ARG:HH21	1:C:287:THR:HG22	1.83	0.42
1:C:284:HIS:HD2	1:C:287:THR:HG23	1.84	0.42
1:C:594:GLY:H	1:C:1598:GLN:HG3	1.84	0.42
1:C:4833:ASN:HB3	1:C:4935:LEU:HD21	2.01	0.42
1:C:4897:ILE:O	1:C:4901:ILE:HG22	2.19	0.42
1:E:220:LEU:CD1	1:E:390:LEU:HD22	2.48	0.42
1:E:242:ARG:HH21	1:E:287:THR:HG22	1.84	0.42
1:E:266:ARG:O	1:E:270:SER:HB3	2.19	0.42
1:E:401:ALA:HA	1:E:404:ILE:HD12	2.01	0.42
1:E:736:HIS:HE1	1:E:739:ALA:HB3	1.84	0.42
1:E:1660:GLN:HG3	1:E:1707:LEU:HD11	2.01	0.42
1:E:1735:ILE:HD11	1:E:2156:LEU:HD11	1.99	0.42
1:E:1853:ILE:HG22	1:E:1854:PHE:N	2.34	0.42
1:E:3775:ALA:HA	1:E:3778:MET:HG2	1.99	0.42
1:E:4575:PHE:O	1:E:4578:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:232:THR:HG21	1:G:248:GLU:CB	2.49	0.42
1:G:564:LEU:O	1:G:568:LEU:HG	2.19	0.42
1:G:1093:GLU:HG3	1:G:1148:VAL:HG22	2.01	0.42
1:G:1802:ILE:O	1:G:1804:LEU:HD12	2.20	0.42
1:G:3783:ILE:HA	1:G:3786:CYS:SG	2.58	0.42
1:G:3840:SER:HB3	1:G:3881:THR:HG21	2.00	0.42
1:G:4061:PHE:O	1:G:4064:MET:HG2	2.19	0.42
1:G:4677:LEU:HD11	1:G:4702:ASP:HB3	2.01	0.42
1:A:345:LEU:HD13	1:A:387:ALA:HB1	2.01	0.42
1:A:401:ALA:O	1:A:404:ILE:HB	2.19	0.42
1:A:401:ALA:HA	1:A:404:ILE:HD12	2.00	0.42
1:A:519:VAL:HG22	1:A:523:TYR:CE2	2.55	0.42
1:A:765:GLN:HG3	1:A:1479:GLU:H	1.83	0.42
1:A:1079:LYS:NZ	1:A:1107:PRO:HB3	2.34	0.42
1:A:1110:ARG:HD2	1:A:1113:VAL:HG23	2.01	0.42
1:A:1206:GLN:O	1:A:1209:SER:OG	2.31	0.42
1:A:1247:PRO:HB3	1:A:1600:LEU:HD13	2.00	0.42
1:A:2273:LEU:HD23	1:A:2330:ARG:HG2	2.02	0.42
1:A:2761:TYR:CZ	1:A:2862:LEU:HD13	2.54	0.42
1:A:3371:LYS:HA	1:A:3374:ALA:HB3	2.02	0.42
1:A:3937:TYR:HA	1:A:3940:LYS:HZ3	1.83	0.42
1:A:3937:TYR:CE2	1:A:3943:ILE:HG23	2.54	0.42
1:C:24:CYS:HB2	1:C:200:TRP:CZ3	2.54	0.42
1:C:265:LEU:HD21	1:C:281:ARG:H	1.83	0.42
1:C:543:ASN:O	1:C:546:TRP:HB3	2.18	0.42
1:C:595:ARG:NH2	1:C:1641:ILE:HD11	2.27	0.42
1:C:732:SER:HB2	1:C:735:GLN:HG2	2.02	0.42
1:C:1110:ARG:HD2	1:C:1113:VAL:HG23	2.00	0.42
1:C:2453:ILE:HA	1:C:2456:ILE:HG22	2.00	0.42
1:C:3804:ILE:CG2	1:C:3812:VAL:HG11	2.49	0.42
1:C:3819:TYR:CZ	1:C:3823:LYS:HG3	2.54	0.42
1:C:3989:VAL:HA	1:C:4023:MET:CE	2.49	0.42
1:E:1737:PRO:HG2	1:E:1742:THR:HG21	2.01	0.42
1:E:2104:ARG:HD2	1:E:2107:GLN:OE1	2.19	0.42
1:G:519:VAL:HG22	1:G:523:TYR:CE2	2.55	0.42
1:G:757:PHE:HE2	1:G:768:PHE:HE2	1.66	0.42
1:G:1106:ARG:HG2	1:G:1188:PHE:CD1	2.54	0.42
1:G:1853:ILE:HG22	1:G:1854:PHE:N	2.34	0.42
1:G:3651:ASN:O	1:G:3654:LEU:HB2	2.18	0.42
1:G:3771:HIS:CE1	1:G:3811:GLU:HB3	2.48	0.42
1:G:3836:MET:HA	1:G:3839:CYS:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4837:LEU:HD22	1:G:4936:ILE:HD11	2.01	0.42
1:G:4930:ALA:HA	1:G:4933:GLN:HB2	2.01	0.42
1:A:765:GLN:HB3	1:A:1477:GLY:H	1.83	0.42
1:A:990:GLU:HG3	1:A:1024:TYR:HB3	2.00	0.42
1:A:1277:TRP:HB2	1:A:1562:ILE:O	2.20	0.42
1:A:1710:GLY:O	1:A:1714:LEU:HG	2.18	0.42
1:A:2495:VAL:H	1:A:2496:PRO:HD2	1.84	0.42
1:A:3674:ILE:CG2	1:A:3769:ARG:HD3	2.49	0.42
1:A:4899:ASP:H	1:G:4892:ARG:NH1	2.17	0.42
1:C:456:SER:OG	1:C:458:GLU:HG2	2.19	0.42
1:C:618:GLN:OE1	1:C:1678:ASN:ND2	2.52	0.42
1:C:736:HIS:HE1	1:C:739:ALA:HB3	1.84	0.42
1:C:1115:LEU:HD11	1:C:1191:VAL:HG11	2.01	0.42
1:C:2162:ILE:O	1:C:2166:LEU:N	2.53	0.42
1:C:2234:ARG:HH12	1:C:2271:THR:N	2.17	0.42
1:C:3674:ILE:CG2	1:C:3769:ARG:HD3	2.49	0.42
1:C:3761:GLN:NE2	1:C:4722:ARG:HH22	2.16	0.42
2:D:42:ARG:C	2:D:44:LYS:H	2.26	0.42
2:D:73:LYS:HA	2:D:99:PHE:O	2.18	0.42
1:E:23:GLN:N	1:E:201:ASN:O	2.52	0.42
1:E:70:GLU:HB2	1:E:108:LEU:HB3	2.02	0.42
1:E:1107:PRO:HB2	1:E:1186:ASP:OD2	2.18	0.42
1:E:1839:VAL:HG23	1:E:1935:VAL:HG22	2.01	0.42
1:E:2273:LEU:HD23	1:E:2330:ARG:HG2	2.02	0.42
1:E:3674:ILE:CG2	1:E:3769:ARG:HD3	2.49	0.42
1:E:3804:ILE:CG2	1:E:3812:VAL:HG11	2.49	0.42
1:E:3989:VAL:HA	1:E:4023:MET:CE	2.49	0.42
1:E:4147:LEU:HA	1:E:4147:LEU:HD23	1.85	0.42
1:E:4715:TYR:CD2	1:E:4717:ASP:HB3	2.53	0.42
1:E:4791:TYR:HD2	1:E:4792:LEU:HD12	1.83	0.42
2:F:73:LYS:HA	2:F:99:PHE:O	2.18	0.42
1:G:23:GLN:N	1:G:201:ASN:O	2.52	0.42
1:G:252:VAL:HA	1:G:255:HIS:HB2	2.01	0.42
1:G:266:ARG:O	1:G:270:SER:HB3	2.19	0.42
1:G:284:HIS:HD2	1:G:287:THR:HG23	1.84	0.42
1:G:401:ALA:HA	1:G:404:ILE:HD12	2.00	0.42
1:G:2295:LEU:HD13	1:G:2353:VAL:HG22	2.01	0.42
1:G:4093:PHE:O	1:G:4097:MET:HG2	2.19	0.42
1:G:4960:ILE:HD13	1:G:4983:HIS:HB3	2.01	0.42
1:A:223:PHE:CD1	1:A:230:CYS:HB3	2.54	0.42
1:A:526:LEU:HD11	1:A:540:PHE:CZ	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:723:THR:HG1	1:A:728:ARG:HH12	1.66	0.42
1:A:732:SER:HB2	1:A:735:GLN:HG2	2.02	0.42
1:A:829:TYR:HA	1:A:1073:ARG:HH12	1.82	0.42
1:A:875:ALA:HB1	1:A:922:LEU:HB2	2.01	0.42
1:A:1089:TYR:OH	1:A:1213:PHE:O	2.27	0.42
1:A:1252:HIS:HD2	1:A:1255:TYR:HD2	1.67	0.42
1:A:2103:VAL:HG21	1:A:3676:ASP:CG	2.45	0.42
1:A:4630:TYR:CE2	1:A:4632:LEU:HA	2.54	0.42
1:A:4889:VAL:HG22	1:A:4892:ARG:NH2	2.35	0.42
1:C:266:ARG:O	1:C:270:SER:HB3	2.19	0.42
1:C:663:TYR:HA	1:C:746:CYS:O	2.20	0.42
1:C:2103:VAL:HG21	1:C:3676:ASP:CG	2.44	0.42
1:C:3878:ASP:HB2	1:C:3957:VAL:HG21	2.01	0.42
1:C:3983:SER:C	1:C:3985:LEU:H	2.27	0.42
1:C:4141:PHE:O	1:C:4145:VAL:HG23	2.20	0.42
1:E:113:HIS:CE1	1:E:402:ARG:HB3	2.55	0.42
1:E:205:ILE:HG22	1:E:271:GLY:HA3	2.00	0.42
1:E:594:GLY:H	1:E:1598:GLN:HG3	1.85	0.42
1:E:1778:SER:N	1:E:1799:SER:O	2.36	0.42
1:E:2114:PRO:C	1:E:2116:LEU:H	2.26	0.42
1:E:2142:TYR:HD2	1:E:2197:LEU:HD12	1.83	0.42
1:E:2162:ILE:O	1:E:2166:LEU:N	2.53	0.42
1:E:3878:ASP:HB2	1:E:3957:VAL:HG21	2.01	0.42
1:E:4974:GLY:O	1:E:4977:THR:OG1	2.27	0.42
1:G:121:LEU:HD12	1:G:136:GLY:HA3	2.01	0.42
1:G:223:PHE:CD1	1:G:230:CYS:HB3	2.54	0.42
1:G:724:GLY:C	1:G:726:VAL:H	2.26	0.42
1:G:1115:LEU:HD11	1:G:1191:VAL:HG11	2.01	0.42
1:G:2067:LEU:CD1	1:G:3661:TRP:HB3	2.50	0.42
1:G:2131:LEU:HD11	1:G:3662:ILE:HD12	2.00	0.42
1:G:2142:TYR:HD2	1:G:2197:LEU:HD12	1.83	0.42
1:G:2210:VAL:O	1:G:2214:VAL:HG23	2.19	0.42
1:G:2865:VAL:HB	1:G:2928:LYS:HD3	2.01	0.42
1:G:4188:ARG:HD3	1:G:4188:ARG:HA	1.85	0.42
1:G:4235:VAL:HG21	1:G:5019:TRP:HE1	1.81	0.42
1:A:132:ALA:HB1	1:A:193:ALA:O	2.19	0.42
1:A:266:ARG:O	1:A:270:SER:HB3	2.19	0.42
1:A:1440:PHE:HD2	1:A:1560:ASN:HB3	1.83	0.42
1:A:1676:LEU:HG	1:A:1725:ARG:HE	1.85	0.42
1:A:1716:ILE:HD13	1:A:1720:LEU:HD12	2.00	0.42
1:A:2162:ILE:O	1:A:2166:LEU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4631:PHE:CZ	1:A:4639:MET:HE3	2.54	0.42
2:B:17:LYS:H	2:B:20:GLN:CD	2.28	0.42
1:C:35:LEU:HD12	1:C:35:LEU:O	2.19	0.42
1:C:103:TYR:CZ	1:C:163:VAL:HG13	2.54	0.42
1:C:768:PHE:HB3	1:C:771:PHE:CE1	2.53	0.42
1:C:875:ALA:HB1	1:C:922:LEU:HB2	2.01	0.42
1:C:1547:LYS:HZ3	1:C:1645:ASN:HB2	1.81	0.42
1:C:2103:VAL:O	1:C:2107:GLN:HG3	2.19	0.42
1:C:3802:ILE:HD11	1:C:3883:ASP:O	2.20	0.42
1:C:3825:GLU:O	1:C:3827:GLY:N	2.48	0.42
1:C:4055:VAL:O	1:C:4058:ILE:HG13	2.19	0.42
1:C:4966:ASP:OD1	1:C:4967:TYR:N	2.47	0.42
2:D:16:PRO:HD2	2:D:64:ALA:HA	2.01	0.42
1:E:284:HIS:CD2	1:E:287:THR:HG23	2.55	0.42
1:E:401:ALA:O	1:E:404:ILE:HB	2.20	0.42
1:E:595:ARG:HH12	1:E:1641:ILE:HD11	1.85	0.42
1:E:682:LEU:HD22	1:E:738:LEU:HD23	2.02	0.42
1:E:705:ASN:HD22	1:E:782:SER:CB	2.31	0.42
1:E:1247:PRO:HB3	1:E:1600:LEU:HD13	2.01	0.42
1:E:4154:VAL:HA	1:E:4155:PRO:HD2	1.79	0.42
1:G:400:ALA:HB2	1:G:451:TYR:OH	2.20	0.42
1:G:663:TYR:HA	1:G:746:CYS:O	2.20	0.42
1:G:2104:ARG:O	1:G:2108:GLU:HG2	2.20	0.42
1:G:2162:ILE:O	1:G:2166:LEU:N	2.53	0.42
1:G:4778:TRP:O	1:G:4782:VAL:HG23	2.20	0.42
1:A:233:ILE:HD12	1:A:242:ARG:HG2	2.01	0.42
1:A:663:TYR:HA	1:A:746:CYS:O	2.20	0.42
1:A:705:ASN:HD22	1:A:782:SER:CB	2.31	0.42
1:A:2748:PRO:HD2	1:A:2751:LEU:HD12	2.02	0.42
1:A:4055:VAL:O	1:A:4058:ILE:HG13	2.19	0.42
1:A:4855:ALA:HB1	1:A:4863:TYR:CE2	2.54	0.42
1:A:4961:CYS:SG	1:A:4983:HIS:CE1	3.06	0.42
1:C:723:THR:HG1	1:C:728:ARG:HH12	1.65	0.42
1:C:1277:TRP:HB2	1:C:1562:ILE:O	2.20	0.42
1:C:3838:THR:OG1	1:C:3839:CYS:N	2.51	0.42
1:C:4859:PHE:CE1	1:C:4913:ARG:HB2	2.54	0.42
1:E:103:TYR:CZ	1:E:163:VAL:HG13	2.54	0.42
1:E:414:PHE:CD1	1:E:441:VAL:HG21	2.55	0.42
1:E:493:ARG:HA	1:E:496:VAL:HG23	2.02	0.42
1:E:2295:LEU:HD13	1:E:2353:VAL:HG22	2.01	0.42
1:E:3937:TYR:CE2	1:E:3943:ILE:HG23	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:17:LYS:H	2:F:20:GLN:CD	2.28	0.42
1:G:35:LEU:HD12	1:G:35:LEU:O	2.19	0.42
1:G:103:TYR:CZ	1:G:163:VAL:HG13	2.54	0.42
1:G:3898:ASP:OD1	1:G:3899:PHE:N	2.52	0.42
1:A:24:CYS:HB2	1:A:200:TRP:CZ3	2.54	0.42
1:A:1745:ILE:HD12	1:A:1960:ALA:HB2	2.02	0.42
1:A:2495:VAL:H	1:A:2496:PRO:CD	2.33	0.42
1:A:2799:GLU:HA	1:A:2802:LYS:HD2	2.01	0.42
1:A:3819:TYR:CZ	1:A:3823:LYS:HG3	2.55	0.42
1:C:23:GLN:N	1:C:201:ASN:O	2.52	0.42
1:C:220:LEU:CD1	1:C:390:LEU:HD22	2.48	0.42
1:C:401:ALA:O	1:C:404:ILE:HB	2.20	0.42
1:C:519:VAL:HG22	1:C:523:TYR:CE2	2.54	0.42
1:C:664:PHE:CE1	1:C:779:PRO:HB3	2.55	0.42
1:C:1078:GLU:HG3	1:C:1237:TRP:CZ2	2.55	0.42
1:C:1802:ILE:O	1:C:1804:LEU:HD12	2.20	0.42
1:C:1839:VAL:HG23	1:C:1935:VAL:HG22	2.01	0.42
1:C:2045:GLN:O	1:C:2064:ARG:NH2	2.40	0.42
1:C:2104:ARG:HD2	1:C:2107:GLN:OE1	2.20	0.42
1:C:3670:GLU:OE1	1:C:3731:LYS:HB2	2.19	0.42
1:C:4174:PHE:O	1:C:4178:LEU:N	2.49	0.42
1:C:4892:ARG:HH12	1:E:4899:ASP:H	1.61	0.42
1:E:664:PHE:CE1	1:E:779:PRO:HB3	2.55	0.42
1:E:665:GLU:OE2	1:E:802:PHE:HB3	2.19	0.42
1:E:1079:LYS:NZ	1:E:1107:PRO:HB3	2.34	0.42
1:E:2104:ARG:O	1:E:2108:GLU:HG2	2.20	0.42
1:E:3670:GLU:OE1	1:E:3731:LYS:HB2	2.19	0.42
1:E:3819:TYR:CZ	1:E:3823:LYS:HG3	2.55	0.42
1:E:5022:PHE:HA	1:E:5023:PRO:HD3	1.87	0.42
1:G:113:HIS:HE1	1:G:399:GLN:O	2.03	0.42
1:G:493:ARG:HA	1:G:496:VAL:HG23	2.02	0.42
1:G:590:LEU:HB2	1:G:599:VAL:HG11	2.02	0.42
1:G:732:SER:HB2	1:G:735:GLN:HG2	2.02	0.42
1:G:1716:ILE:HD13	1:G:1720:LEU:HD12	2.00	0.42
1:G:3781:GLN:HG2	1:G:3819:TYR:OH	2.18	0.42
1:G:3897:ASN:OD1	1:G:3901:ASN:ND2	2.52	0.42
1:G:3938:SER:HA	1:G:4002:LYS:HE3	2.02	0.42
1:G:3999:MET:O	1:G:4003:LEU:HG	2.20	0.42
1:G:4036:VAL:HG23	1:G:5032:TYR:CD2	2.55	0.42
1:G:4867:GLU:HA	1:G:4868:ASP:HA	1.79	0.42
1:A:284:HIS:HD2	1:A:287:THR:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:564:LEU:O	1:A:568:LEU:HG	2.19	0.42
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.20	0.42
1:A:3983:SER:C	1:A:3985:LEU:H	2.27	0.42
1:C:108:LEU:HD11	1:C:117:TYR:CG	2.55	0.42
1:C:121:LEU:HD12	1:C:136:GLY:HA3	2.01	0.42
1:C:122:THR:HG23	1:C:133:PHE:CE1	2.54	0.42
1:C:689:THR:OG1	1:C:690:GLU:N	2.50	0.42
1:C:829:TYR:HA	1:C:1073:ARG:HH12	1.83	0.42
1:C:1252:HIS:HD2	1:C:1255:TYR:HD2	1.67	0.42
1:C:2126:ARG:CZ	1:C:2133:GLU:OE2	2.68	0.42
1:C:2273:LEU:HD23	1:C:2330:ARG:HG2	2.01	0.42
1:C:2506:LEU:HD21	1:C:2517:PHE:HE2	1.85	0.42
1:C:3927:GLN:HE21	1:C:3991:GLY:HA3	1.85	0.42
1:E:400:ALA:HB2	1:E:451:TYR:OH	2.20	0.42
1:E:875:ALA:HB1	1:E:922:LEU:HB2	2.00	0.42
1:E:1085:SER:O	1:E:1088:TRP:NE1	2.39	0.42
1:E:1514:LEU:O	1:E:1515:VAL:HG22	2.20	0.42
1:E:1802:ILE:O	1:E:1804:LEU:HD12	2.20	0.42
1:E:2506:LEU:HD21	1:E:2517:PHE:HE2	1.85	0.42
1:E:4174:PHE:O	1:E:4178:LEU:N	2.50	0.42
1:E:4712:PRO:HG2	1:E:4718:LYS:HA	2.01	0.42
1:E:4859:PHE:CE1	1:E:4913:ARG:HB2	2.54	0.42
1:E:4957:LYS:HB2	1:E:4957:LYS:HE3	1.91	0.42
1:G:545:ASP:OD1	1:G:582:HIS:NE2	2.52	0.42
1:G:618:GLN:OE1	1:G:1678:ASN:ND2	2.52	0.42
1:G:664:PHE:CE1	1:G:779:PRO:HB3	2.55	0.42
1:G:1027:LEU:HD12	1:G:1032:LYS:HD2	2.01	0.42
1:G:1277:TRP:HB2	1:G:1562:ILE:O	2.20	0.42
1:G:1515:VAL:HA	1:G:1530:THR:O	2.20	0.42
1:G:1682:ALA:HB3	1:G:1800:PRO:HG2	2.01	0.42
1:G:2036:GLN:CB	1:G:3652:MET:HE2	2.49	0.42
1:G:2234:ARG:HH12	1:G:2271:THR:N	2.18	0.42
1:G:2327:GLY:O	1:G:2330:ARG:HB3	2.20	0.42
1:G:3916:ILE:O	1:G:3920:VAL:HG23	2.20	0.42
1:A:594:GLY:H	1:A:1598:GLN:HG3	1.84	0.42
1:A:720:HIS:HA	1:A:728:ARG:O	2.20	0.42
1:A:1079:LYS:NZ	1:A:1107:PRO:O	2.53	0.42
1:A:2121:PHE:CG	1:A:3701:LEU:HD12	2.55	0.42
1:A:2210:VAL:O	1:A:2214:VAL:HG23	2.20	0.42
1:A:2234:ARG:HH12	1:A:2271:THR:N	2.17	0.42
1:A:3927:GLN:HE21	1:A:3991:GLY:HA3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4042:ARG:O	1:A:4045:VAL:HB	2.20	0.42
1:A:4150:LEU:O	1:A:4154:VAL:N	2.29	0.42
1:A:4829:SER:O	1:A:4939:ALA:HB1	2.20	0.42
1:A:4897:ILE:O	1:A:4901:ILE:HG22	2.19	0.42
1:C:232:THR:HG21	1:C:248:GLU:CB	2.50	0.42
1:C:526:LEU:HD11	1:C:540:PHE:CZ	2.46	0.42
1:C:916:PRO:O	1:C:919:ASN:HB2	2.20	0.42
1:C:2495:VAL:H	1:C:2496:PRO:CD	2.33	0.42
1:C:3783:ILE:HA	1:C:3786:CYS:SG	2.60	0.42
1:C:4042:ARG:O	1:C:4045:VAL:HB	2.20	0.42
1:C:4712:PRO:HG2	1:C:4718:LYS:HA	2.02	0.42
1:C:4889:VAL:HG22	1:C:4892:ARG:HH21	1.85	0.42
1:C:5022:PHE:HA	1:C:5023:PRO:HD3	1.87	0.42
1:E:223:PHE:CD1	1:E:230:CYS:HB3	2.54	0.42
1:E:637:LEU:HD23	1:E:1693:GLN:HA	2.02	0.42
1:E:1254:HIS:NE2	1:E:1280:GLN:HB3	2.34	0.42
1:E:1682:ALA:HB3	1:E:1800:PRO:HG2	2.01	0.42
1:E:2234:ARG:HH12	1:E:2271:THR:N	2.17	0.42
1:E:3802:ILE:HD11	1:E:3883:ASP:O	2.20	0.42
1:E:3927:GLN:CD	1:E:3988:ALA:HA	2.45	0.42
1:E:4958:CYS:SG	1:E:4959:PHE:N	2.93	0.42
1:G:4165:GLU:O	1:G:4168:GLU:HG2	2.19	0.42
1:G:4706:LEU:O	1:G:4721:LYS:NZ	2.53	0.42
2:H:16:PRO:HG2	2:H:63:VAL:HG12	2.01	0.42
1:A:113:HIS:HE1	1:A:399:GLN:O	2.02	0.42
1:A:618:GLN:OE1	1:A:1678:ASN:ND2	2.52	0.42
1:A:1682:ALA:HB3	1:A:1800:PRO:HG2	2.01	0.42
1:A:1771:LEU:HD23	1:A:1771:LEU:HA	1.94	0.42
1:A:2470:ILE:O	1:A:2474:LEU:N	2.40	0.42
1:A:3927:GLN:CD	1:A:3988:ALA:HA	2.45	0.42
1:A:4664:LEU:HG	1:A:4665:LYS:HG3	2.02	0.42
1:A:4688:ILE:HG21	1:A:4728:HIS:HB3	2.01	0.42
1:A:4712:PRO:HG2	1:A:4718:LYS:HA	2.01	0.42
1:A:4857:ASN:HD21	1:G:4807:PHE:HB3	1.85	0.42
1:C:350:HIS:NE2	1:C:352:ALA:HB3	2.35	0.42
1:C:471:LEU:O	1:C:475:GLN:HG3	2.20	0.42
1:C:493:ARG:HA	1:C:496:VAL:HG23	2.02	0.42
1:C:682:LEU:HD22	1:C:738:LEU:HD23	2.02	0.42
1:C:906:CYS:O	1:C:908:VAL:N	2.52	0.42
1:C:1745:ILE:HD12	1:C:1960:ALA:HB2	2.02	0.42
1:C:2194:HIS:O	1:C:2198:MET:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2327:GLY:O	1:C:2330:ARG:HB3	2.20	0.42
1:C:2747:ILE:HG22	1:C:2748:PRO:O	2.20	0.42
1:C:2799:GLU:HA	1:C:2802:LYS:HD2	2.01	0.42
1:C:4892:ARG:CD	1:E:4917:ASP:OD2	2.68	0.42
1:C:4934:GLY:HA2	1:C:4937:ILE:HB	2.02	0.42
1:E:350:HIS:NE2	1:E:352:ALA:HB3	2.35	0.42
1:E:618:GLN:OE1	1:E:1678:ASN:ND2	2.52	0.42
1:E:641:VAL:HG21	1:E:704:GLY:H	1.85	0.42
1:E:2121:PHE:CG	1:E:3701:LEU:HD12	2.55	0.42
1:E:2210:VAL:O	1:E:2214:VAL:HG23	2.20	0.42
1:E:2927:LEU:HD22	1:E:2937:VAL:HG11	2.02	0.42
1:E:4042:ARG:O	1:E:4045:VAL:HB	2.20	0.42
1:E:4045:VAL:HG22	1:E:4160:LEU:HD22	2.01	0.42
1:G:42:PHE:HE1	1:G:116:MET:HE3	1.84	0.42
1:G:116:MET:HB2	1:G:137:LEU:HD13	2.02	0.42
1:G:1079:LYS:NZ	1:G:1107:PRO:HB3	2.34	0.42
1:G:2208:MET:HE1	1:G:2253:HIS:HB2	2.02	0.42
1:G:2273:LEU:HD23	1:G:2330:ARG:HG2	2.02	0.42
1:G:2881:ASN:OD1	1:G:2885:THR:OG1	2.37	0.42
1:G:3716:LEU:HB3	1:G:3789:GLU:OE1	2.20	0.42
1:A:70:GLU:HB2	1:A:108:LEU:HB3	2.02	0.41
1:A:456:SER:OG	1:A:458:GLU:HG2	2.19	0.41
1:A:682:LEU:HD22	1:A:738:LEU:HD23	2.01	0.41
1:A:2104:ARG:O	1:A:2108:GLU:HG2	2.20	0.41
1:A:2126:ARG:CZ	1:A:2133:GLU:OE2	2.68	0.41
1:A:4027:LEU:O	1:A:4027:LEU:HD23	2.20	0.41
1:A:4917:ASP:OD2	1:G:4892:ARG:CD	2.67	0.41
1:C:70:GLU:HB2	1:C:108:LEU:HB3	2.02	0.41
1:C:102:LEU:HB2	1:C:105:HIS:HD2	1.83	0.41
1:C:116:MET:HB3	1:C:138:GLN:O	2.20	0.41
1:C:589:LEU:HG	1:C:593:HIS:CD2	2.48	0.41
1:C:590:LEU:HB2	1:C:599:VAL:HG11	2.01	0.41
1:C:1027:LEU:HD12	1:C:1032:LYS:HD2	2.00	0.41
1:C:1079:LYS:NZ	1:C:1107:PRO:O	2.54	0.41
1:C:1777:PHE:CD1	1:C:1801:ALA:HA	2.55	0.41
1:C:1841:VAL:O	1:C:1845:VAL:HG23	2.20	0.41
1:C:2114:PRO:C	1:C:2116:LEU:H	2.26	0.41
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.20	0.41
1:C:2761:TYR:CZ	1:C:2862:LEU:HD13	2.54	0.41
1:C:4921:PHE:O	1:C:4926:VAL:HG23	2.19	0.41
1:E:252:VAL:HA	1:E:255:HIS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:720:HIS:HA	1:E:728:ARG:O	2.20	0.41
1:E:2327:GLY:O	1:E:2330:ARG:HB3	2.20	0.41
1:E:3989:VAL:HG11	1:E:4047:MET:HE1	2.02	0.41
1:E:4027:LEU:HD23	1:E:4027:LEU:O	2.20	0.41
1:E:4630:TYR:CE2	1:E:4632:LEU:HA	2.55	0.41
1:G:151:HIS:HA	1:G:152:PRO:HD2	1.95	0.41
1:G:345:LEU:HD13	1:G:387:ALA:HB1	2.01	0.41
1:G:453:GLU:HA	1:G:454:PRO:HD3	1.85	0.41
1:G:705:ASN:HD22	1:G:782:SER:CB	2.32	0.41
1:G:736:HIS:ND1	1:G:737:LEU:O	2.50	0.41
1:G:990:GLU:HG3	1:G:1024:TYR:HB3	2.01	0.41
1:G:2465:ASP:O	1:G:2467:VAL:N	2.53	0.41
1:G:3722:TYR:HE1	1:G:3778:MET:HE3	1.85	0.41
1:G:4675:LYS:O	1:G:4679:ARG:HG2	2.19	0.41
2:H:46:PHE:CE2	2:H:48:PHE:CD1	3.08	0.41
1:A:42:PHE:HE1	1:A:116:MET:HE3	1.85	0.41
1:A:545:ASP:OD1	1:A:582:HIS:NE2	2.52	0.41
1:A:750:LEU:O	1:A:751:SER:OG	2.35	0.41
1:A:1078:GLU:HG3	1:A:1237:TRP:CZ2	2.55	0.41
1:A:2208:MET:HE1	1:A:2253:HIS:HB2	2.02	0.41
1:A:3838:THR:OG1	1:A:3839:CYS:N	2.51	0.41
1:A:4159:ARG:O	1:A:4162:ASN:HB3	2.20	0.41
1:C:116:MET:HB2	1:C:137:LEU:HD13	2.03	0.41
1:C:641:VAL:HG21	1:C:704:GLY:H	1.85	0.41
1:C:722:TRP:NE1	1:C:727:ALA:HB2	2.35	0.41
1:C:750:LEU:C	1:C:751:SER:HG	2.27	0.41
1:C:757:PHE:HE2	1:C:768:PHE:HE2	1.67	0.41
1:C:1432:THR:N	1:C:1518:CYS:SG	2.93	0.41
1:C:2208:MET:HE1	1:C:2253:HIS:HB2	2.02	0.41
1:C:4147:LEU:HA	1:C:4147:LEU:HD23	1.85	0.41
2:D:17:LYS:H	2:D:20:GLN:CD	2.28	0.41
1:E:732:SER:HB2	1:E:735:GLN:HG2	2.02	0.41
1:E:1115:LEU:HD11	1:E:1191:VAL:HG11	2.01	0.41
1:E:1125:ASN:OD1	1:E:1132:TRP:HZ3	2.03	0.41
1:E:1290:ARG:HG2	1:E:1551:ALA:HB2	2.02	0.41
1:E:1432:THR:N	1:E:1518:CYS:SG	2.93	0.41
1:E:2103:VAL:HG21	1:E:3676:ASP:CG	2.44	0.41
1:E:2799:GLU:HA	1:E:2802:LYS:HD2	2.02	0.41
1:E:4897:ILE:O	1:E:4901:ILE:HG22	2.20	0.41
2:F:16:PRO:HD2	2:F:64:ALA:HA	2.01	0.41
1:G:456:SER:OG	1:G:458:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:830:ARG:CZ	1:G:1616:GLU:OE2	2.68	0.41
1:G:1290:ARG:HG2	1:G:1551:ALA:HB2	2.02	0.41
1:G:4559:PHE:CE1	1:G:4661:TYR:HB2	2.55	0.41
1:A:116:MET:HB3	1:A:138:GLN:O	2.20	0.41
1:A:220:LEU:CD1	1:A:390:LEU:HD22	2.48	0.41
1:A:493:ARG:HA	1:A:496:VAL:HG23	2.02	0.41
1:A:660:GLY:O	1:A:662:TRP:HD1	2.04	0.41
1:A:701:GLY:HA2	1:A:1645:ASN:HD21	1.86	0.41
1:A:2465:ASP:O	1:A:2467:VAL:N	2.53	0.41
1:A:3694:LYS:HA	1:A:3695:PRO:HD3	1.79	0.41
1:A:3710:LEU:HD11	1:A:3781:GLN:NE2	2.36	0.41
1:A:3989:VAL:HG11	1:A:4047:MET:HE1	2.02	0.41
1:A:4715:TYR:O	1:A:4716:TRP:CG	2.73	0.41
1:A:4892:ARG:CD	1:C:4917:ASP:OD2	2.68	0.41
1:C:113:HIS:CE1	1:C:402:ARG:HB3	2.54	0.41
1:C:660:GLY:O	1:C:662:TRP:HD1	2.04	0.41
1:C:990:GLU:HG3	1:C:1024:TYR:HB3	2.01	0.41
1:C:1254:HIS:NE2	1:C:1280:GLN:HB3	2.34	0.41
1:C:1676:LEU:HG	1:C:1725:ARG:HE	1.85	0.41
1:C:1682:ALA:HB3	1:C:1800:PRO:HG2	2.01	0.41
1:C:1737:PRO:HG2	1:C:1742:THR:HG21	2.02	0.41
1:C:2204:HIS:O	1:C:2208:MET:N	2.42	0.41
1:C:3989:VAL:HG11	1:C:4047:MET:HE1	2.02	0.41
1:C:4862:PHE:C	1:C:4864:ASN:H	2.28	0.41
1:E:663:TYR:HA	1:E:746:CYS:O	2.20	0.41
1:E:757:PHE:HE2	1:E:768:PHE:HE2	1.67	0.41
1:E:1079:LYS:NZ	1:E:1107:PRO:O	2.53	0.41
1:E:1211:LEU:CD2	1:E:1212:ARG:H	2.31	0.41
1:E:2123:LEU:HD23	1:E:2126:ARG:HD3	2.02	0.41
1:E:2924:GLN:HB3	1:E:2928:LYS:HD2	2.01	0.41
1:E:4774:LYS:HA	1:E:4777:ILE:HG22	2.03	0.41
1:E:4822:THR:O	1:E:4825:THR:OG1	2.26	0.41
1:G:116:MET:HB3	1:G:138:GLN:O	2.20	0.41
1:G:637:LEU:HD23	1:G:1693:GLN:HA	2.02	0.41
1:G:722:TRP:NE1	1:G:727:ALA:HB2	2.36	0.41
1:G:984:LEU:O	1:G:988:LEU:HG	2.20	0.41
1:G:1432:THR:N	1:G:1518:CYS:SG	2.93	0.41
1:G:3664:THR:HB	1:G:3665:GLU:H	1.68	0.41
1:G:4631:PHE:CZ	1:G:4639:MET:HE3	2.56	0.41
1:G:4722:ARG:O	1:G:4725:LEU:HG	2.19	0.41
1:G:5017:ARG:HB3	1:G:5019:TRP:CZ3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:LEU:HD11	1:A:117:TYR:CG	2.55	0.41
1:A:113:HIS:CE1	1:A:402:ARG:HB3	2.55	0.41
1:A:116:MET:HB2	1:A:137:LEU:HD13	2.02	0.41
1:A:830:ARG:CZ	1:A:1616:GLU:OE2	2.69	0.41
1:A:1087:ARG:NH1	1:A:1223:PHE:CE2	2.89	0.41
1:A:1125:ASN:OD1	1:A:1132:TRP:HZ3	2.03	0.41
1:A:1519:LEU:HD13	1:A:1527:MET:HG2	2.02	0.41
1:A:1736:VAL:HA	1:A:1737:PRO:HD2	1.84	0.41
1:A:1802:ILE:O	1:A:1804:LEU:HD12	2.20	0.41
1:A:2165:LEU:HD21	1:A:2177:LEU:CB	2.51	0.41
1:A:2305:CYS:O	1:A:2325:PRO:HG2	2.20	0.41
1:A:4235:VAL:HG21	1:A:5019:TRP:CD1	2.55	0.41
1:C:284:HIS:CD2	1:C:287:THR:HG23	2.55	0.41
1:C:414:PHE:CD1	1:C:441:VAL:HG21	2.55	0.41
1:C:637:LEU:HD23	1:C:1693:GLN:HA	2.02	0.41
1:C:1194:LEU:HD22	1:C:1198:GLN:O	2.21	0.41
1:C:1773:PRO:HA	1:C:1774:PRO:HD3	1.96	0.41
1:C:3927:GLN:CD	1:C:3988:ALA:HA	2.45	0.41
1:C:4027:LEU:HD23	1:C:4027:LEU:O	2.21	0.41
1:C:4159:ARG:O	1:C:4162:ASN:HB3	2.20	0.41
1:C:4630:TYR:CE2	1:C:4632:LEU:HA	2.54	0.41
1:E:233:ILE:HD12	1:E:242:ARG:HG2	2.02	0.41
1:E:699:GLY:O	1:E:701:GLY:N	2.53	0.41
1:E:722:TRP:NE1	1:E:727:ALA:HB2	2.35	0.41
1:E:855:PRO:HD3	1:E:994:ASN:HB3	2.03	0.41
1:E:1297:PHE:CZ	1:E:1519:LEU:HD21	2.55	0.41
1:E:1669:LEU:HD23	1:E:1669:LEU:C	2.46	0.41
1:E:1770:SER:OG	1:E:1771:LEU:N	2.49	0.41
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.20	0.41
1:E:2747:ILE:HG22	1:E:2748:PRO:O	2.20	0.41
1:E:3783:ILE:HA	1:E:3786:CYS:SG	2.61	0.41
1:G:113:HIS:CE1	1:G:402:ARG:HB3	2.55	0.41
1:G:284:HIS:CD2	1:G:287:THR:HG23	2.55	0.41
1:G:414:PHE:CD1	1:G:441:VAL:HG21	2.55	0.41
1:G:748:LEU:HD21	1:G:777:PHE:HD2	1.85	0.41
1:G:1778:SER:N	1:G:1799:SER:O	2.36	0.41
1:G:1841:VAL:O	1:G:1845:VAL:HG23	2.21	0.41
1:G:2305:CYS:O	1:G:2325:PRO:HG2	2.20	0.41
1:G:2495:VAL:H	1:G:2496:PRO:CD	2.33	0.41
1:G:3819:TYR:CZ	1:G:3823:LYS:HG3	2.56	0.41
2:H:17:LYS:H	2:H:20:GLN:CD	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:LEU:HD12	1:A:163:VAL:HG12	2.03	0.41
1:A:414:PHE:CD1	1:A:441:VAL:HG21	2.55	0.41
1:A:1620:ALA:O	1:A:1629:GLN:N	2.35	0.41
1:A:1737:PRO:HG2	1:A:1742:THR:HG21	2.02	0.41
1:A:1841:VAL:O	1:A:1845:VAL:HG23	2.20	0.41
1:A:2104:ARG:HD2	1:A:2107:GLN:OE1	2.19	0.41
1:A:2327:GLY:O	1:A:2330:ARG:HB3	2.20	0.41
1:A:2506:LEU:HD21	1:A:2517:PHE:HE2	1.85	0.41
1:A:2747:ILE:HG22	1:A:2748:PRO:O	2.20	0.41
1:A:3783:ILE:HA	1:A:3786:CYS:SG	2.61	0.41
1:A:3802:ILE:HD11	1:A:3883:ASP:O	2.20	0.41
1:C:252:VAL:HA	1:C:255:HIS:HB2	2.02	0.41
1:C:1125:ASN:OD1	1:C:1132:TRP:HZ3	2.03	0.41
1:C:2210:VAL:O	1:C:2214:VAL:HG23	2.20	0.41
1:C:4201:ASN:HB3	1:C:4990:PHE:CE1	2.55	0.41
1:C:4235:VAL:HG21	1:C:5019:TRP:CD1	2.55	0.41
1:C:4715:TYR:O	1:C:4716:TRP:CG	2.73	0.41
1:E:108:LEU:HD11	1:E:117:TYR:CG	2.55	0.41
1:E:122:THR:HG23	1:E:133:PHE:CE1	2.54	0.41
1:E:471:LEU:O	1:E:475:GLN:HG3	2.20	0.41
1:E:519:VAL:HG22	1:E:523:TYR:CE2	2.55	0.41
1:E:826:ILE:O	1:E:828:GLU:N	2.54	0.41
1:E:829:TYR:HA	1:E:1073:ARG:HH12	1.83	0.41
1:E:984:LEU:O	1:E:988:LEU:HG	2.20	0.41
1:E:1275:ARG:HG3	1:E:1277:TRP:HE1	1.86	0.41
1:E:1277:TRP:HB2	1:E:1562:ILE:O	2.20	0.41
1:E:1695:LEU:O	1:E:1699:GLU:HG3	2.21	0.41
1:E:1779:PRO:HA	1:E:1780:PRO:HD3	1.91	0.41
1:E:2465:ASP:O	1:E:2467:VAL:N	2.53	0.41
1:E:4664:LEU:HG	1:E:4665:LYS:HG3	2.03	0.41
1:G:108:LEU:HD11	1:G:117:TYR:CG	2.55	0.41
1:G:646:PRO:HB2	1:G:793:LEU:HD11	2.03	0.41
1:G:1669:LEU:C	1:G:1669:LEU:HD23	2.46	0.41
1:G:1745:ILE:HD12	1:G:1960:ALA:HB2	2.02	0.41
1:G:1777:PHE:CD1	1:G:1801:ALA:HA	2.56	0.41
1:G:1839:VAL:HG23	1:G:1935:VAL:HG22	2.01	0.41
1:G:2867:LEU:HD11	1:G:2924:GLN:HA	2.03	0.41
1:G:3657:TYR:CE2	1:G:3662:ILE:HD11	2.55	0.41
1:G:3985:LEU:HD11	1:G:4026:MET:HE1	2.01	0.41
1:G:4856:PHE:HE1	1:G:4877:ASP:O	2.03	0.41
2:H:2:VAL:HG23	2:H:76:ILE:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:GLU:OE1	1:G:3935:TRP:CE3	2.70	0.41
1:A:252:VAL:HA	1:A:255:HIS:HB2	2.01	0.41
1:A:400:ALA:HB2	1:A:451:TYR:OH	2.20	0.41
1:A:1290:ARG:HA	1:A:1551:ALA:CB	2.51	0.41
1:A:1432:THR:N	1:A:1518:CYS:SG	2.93	0.41
1:A:1669:LEU:C	1:A:1669:LEU:HD23	2.46	0.41
1:A:2114:PRO:C	1:A:2116:LEU:H	2.26	0.41
1:A:2191:PHE:HZ	1:A:2239:PHE:HD1	1.69	0.41
1:A:2247:GLN:HE21	1:A:2279:SER:C	2.29	0.41
1:A:3750:GLU:CD	1:A:4716:TRP:HA	2.46	0.41
1:C:595:ARG:HH12	1:C:1641:ILE:HD11	1.86	0.41
1:C:1519:LEU:HD13	1:C:1527:MET:HG2	2.02	0.41
1:C:1738:LEU:N	1:C:2144:ILE:O	2.48	0.41
1:C:2165:LEU:HD21	1:C:2177:LEU:CB	2.51	0.41
1:C:2813:LEU:HD22	1:C:2823:ILE:HD13	2.02	0.41
1:C:4940:PHE:CE2	1:E:4938:ASP:OD2	2.72	0.41
1:E:50:GLU:OE2	1:E:61:ASP:N	2.36	0.41
1:E:375:LYS:NZ	1:E:377:ILE:HG22	2.36	0.41
1:E:1514:LEU:C	1:E:1515:VAL:HG23	2.45	0.41
1:E:1775:HIS:CE1	1:E:1777:PHE:CE2	3.09	0.41
1:E:2247:GLN:HE21	1:E:2279:SER:C	2.29	0.41
1:E:3766:GLN:O	1:E:3769:ARG:HB3	2.20	0.41
1:E:4049:VAL:HG21	1:E:4159:ARG:CD	2.51	0.41
1:G:16:THR:N	1:G:99:ARG:O	2.46	0.41
1:G:471:LEU:O	1:G:475:GLN:HG3	2.20	0.41
1:G:594:GLY:H	1:G:1598:GLN:HG3	1.85	0.41
1:G:660:GLY:O	1:G:662:TRP:HD1	2.04	0.41
1:G:750:LEU:C	1:G:751:SER:HG	2.25	0.41
1:G:855:PRO:HD3	1:G:994:ASN:HB3	2.03	0.41
1:G:1436:SER:HA	1:G:1516:ILE:HA	2.02	0.41
2:H:23:VAL:HG13	2:H:47:LYS:HG2	2.01	0.41
1:A:46:LEU:HD13	1:A:125:ARG:HH22	1.86	0.41
1:A:471:LEU:O	1:A:475:GLN:HG3	2.21	0.41
1:A:664:PHE:CE1	1:A:779:PRO:HB3	2.55	0.41
1:A:826:ILE:O	1:A:828:GLU:N	2.54	0.41
1:A:1775:HIS:CE1	1:A:1777:PHE:CE2	3.08	0.41
1:A:2142:TYR:CD2	1:A:2197:LEU:HD12	2.56	0.41
1:A:2194:HIS:O	1:A:2198:MET:HG2	2.20	0.41
1:A:4921:PHE:O	1:A:4926:VAL:HG23	2.20	0.41
1:A:4957:LYS:HE3	1:A:4957:LYS:HB2	1.93	0.41
1:C:706:GLY:CA	1:C:711:LEU:HD22	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:925:SER:O	1:C:929:LEU:HG	2.21	0.41
1:C:2142:TYR:CD2	1:C:2197:LEU:HD12	2.56	0.41
1:C:4235:VAL:HG21	1:C:5019:TRP:HE1	1.81	0.41
1:C:4933:GLN:O	1:C:4937:ILE:HG13	2.19	0.41
1:E:116:MET:HB2	1:E:137:LEU:HD13	2.03	0.41
1:E:660:GLY:O	1:E:662:TRP:HD1	2.04	0.41
1:E:1078:GLU:HG3	1:E:1237:TRP:CZ2	2.55	0.41
1:E:2655:TYR:O	1:E:2659:THR:N	2.54	0.41
1:E:4235:VAL:HG21	1:E:5019:TRP:CD1	2.55	0.41
1:E:4697:VAL:C	1:E:4700:GLN:H	2.29	0.41
1:E:4776:GLN:HA	1:E:4779:LYS:HG2	2.03	0.41
1:G:350:HIS:NE2	1:G:352:ALA:HB3	2.35	0.41
1:G:733:PRO:HD2	1:G:759:ILE:HD12	2.03	0.41
1:G:1247:PRO:HB3	1:G:1600:LEU:HD13	2.01	0.41
1:G:1290:ARG:HA	1:G:1551:ALA:CB	2.50	0.41
1:G:1676:LEU:HG	1:G:1725:ARG:HE	1.85	0.41
1:G:2191:PHE:HZ	1:G:2239:PHE:HD1	1.69	0.41
1:G:2876:GLU:OE2	1:G:2908:TYR:CE2	2.74	0.41
1:G:3701:LEU:HD11	1:G:3725:TYR:CE1	2.56	0.41
1:G:5013:MET:O	1:G:5017:ARG:N	2.53	0.41
1:A:699:GLY:O	1:A:701:GLY:N	2.54	0.41
1:A:1194:LEU:HD22	1:A:1198:GLN:O	2.20	0.41
1:A:2129:ASP:HB2	1:A:3669:PHE:CE1	2.56	0.41
1:A:2236:LEU:HB3	1:A:2250:MET:HE2	2.03	0.41
1:A:3705:PHE:CD1	1:A:3722:TYR:HD1	2.39	0.41
1:A:3839:CYS:SG	1:A:3881:THR:HG21	2.61	0.41
1:A:4239:GLU:OE1	1:A:4675:LYS:HD2	2.21	0.41
2:B:2:VAL:HG23	2:B:76:ILE:HA	2.03	0.41
1:C:375:LYS:NZ	1:C:377:ILE:HG22	2.36	0.41
1:C:733:PRO:HD2	1:C:759:ILE:HD12	2.02	0.41
1:C:830:ARG:CZ	1:C:1616:GLU:OE2	2.69	0.41
1:C:2096:GLU:H	1:C:2096:GLU:CD	2.29	0.41
1:C:4671:PHE:CE1	1:C:4715:TYR:HA	2.56	0.41
1:C:4807:PHE:HB3	1:E:4857:ASN:ND2	2.36	0.41
1:C:4957:LYS:HB2	1:C:4957:LYS:HE3	1.94	0.41
1:E:590:LEU:HB2	1:E:599:VAL:HG11	2.01	0.41
2:F:87:HIS:CE1	2:F:90:ILE:HD13	2.55	0.41
1:G:70:GLU:HB2	1:G:108:LEU:HB3	2.02	0.41
1:G:1079:LYS:NZ	1:G:1107:PRO:O	2.53	0.41
1:G:1737:PRO:HG2	1:G:1742:THR:HG21	2.03	0.41
1:G:2096:GLU:H	1:G:2096:GLU:CD	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2165:LEU:HD21	1:G:2177:LEU:CB	2.51	0.41
1:G:2247:GLN:HE21	1:G:2279:SER:C	2.29	0.41
1:G:3780:LEU:HD22	1:G:3819:TYR:HD2	1.86	0.41
1:G:3962:PHE:CE1	1:G:4023:MET:HG3	2.55	0.41
1:G:4581:LYS:O	1:G:4630:TYR:N	2.51	0.41
2:H:87:HIS:CE1	2:H:90:ILE:HD13	2.56	0.41
1:A:685:GLY:O	1:A:780:VAL:HB	2.21	0.41
1:A:748:LEU:HD21	1:A:777:PHE:HD2	1.86	0.41
1:A:1106:ARG:HA	1:A:1107:PRO:HD3	1.94	0.41
1:A:1777:PHE:CD1	1:A:1801:ALA:HA	2.56	0.41
1:A:2123:LEU:HD23	1:A:2126:ARG:HD3	2.03	0.41
1:A:2159:LEU:HA	1:A:2162:ILE:HG22	2.03	0.41
1:A:2204:HIS:O	1:A:2208:MET:N	2.42	0.41
1:A:3801:GLY:O	1:A:3805:LEU:HG	2.21	0.41
1:A:4851:TYR:CE1	1:A:4920:PHE:HB2	2.56	0.41
1:A:4886:HIS:O	1:A:4890:GLY:HA3	2.21	0.41
1:A:4889:VAL:HG22	1:A:4892:ARG:HH21	1.86	0.41
2:B:14:THR:HB	2:B:68:VAL:HG23	2.03	0.41
1:C:280:LEU:HG	1:C:314:PHE:O	2.21	0.41
1:C:345:LEU:HD13	1:C:387:ALA:HB1	2.02	0.41
1:C:554:LEU:HG	1:C:593:HIS:HE1	1.86	0.41
1:C:646:PRO:HB2	1:C:793:LEU:HD11	2.03	0.41
1:C:748:LEU:HD21	1:C:777:PHE:HD2	1.86	0.41
1:C:984:LEU:O	1:C:988:LEU:HG	2.21	0.41
1:C:1211:LEU:CD2	1:C:1212:ARG:H	2.31	0.41
1:C:1290:ARG:HA	1:C:1551:ALA:CB	2.51	0.41
1:C:1297:PHE:CZ	1:C:1519:LEU:HD21	2.56	0.41
1:C:1432:THR:N	1:C:1518:CYS:HG	2.19	0.41
1:C:1514:LEU:C	1:C:1515:VAL:HG23	2.46	0.41
1:C:1775:HIS:CE1	1:C:1777:PHE:CE2	3.09	0.41
1:C:1822:GLY:C	1:C:1929:MET:HE1	2.46	0.41
1:C:2104:ARG:O	1:C:2108:GLU:HG2	2.19	0.41
1:C:2247:GLN:HE21	1:C:2279:SER:C	2.29	0.41
1:C:2465:ASP:O	1:C:2467:VAL:N	2.53	0.41
1:C:2495:VAL:N	1:C:2496:PRO:HD2	2.36	0.41
1:C:2755:ILE:HG23	1:C:2809:ILE:HG21	2.03	0.41
1:C:3694:LYS:HA	1:C:3695:PRO:HD3	1.80	0.41
1:C:4049:VAL:HG21	1:C:4159:ARG:CD	2.51	0.41
1:C:4664:LEU:HG	1:C:4665:LYS:HG3	2.03	0.41
2:D:4:VAL:HG22	2:D:74:LEU:HG	2.02	0.41
2:D:14:THR:HB	2:D:68:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:87:HIS:CE1	2:D:90:ILE:HD13	2.55	0.41
1:E:116:MET:HB3	1:E:138:GLN:O	2.20	0.41
1:E:212:GLY:O	1:E:341:TYR:N	2.45	0.41
1:E:521:LEU:O	1:E:525:LEU:N	2.46	0.41
1:E:733:PRO:HD2	1:E:759:ILE:HD12	2.02	0.41
1:E:748:LEU:HD21	1:E:777:PHE:HD2	1.86	0.41
1:E:830:ARG:CZ	1:E:1616:GLU:OE2	2.68	0.41
1:E:1194:LEU:HD22	1:E:1198:GLN:O	2.21	0.41
1:E:2209:GLU:O	1:E:2212:VAL:HB	2.21	0.41
1:E:2293:GLN:O	1:E:2296:GLU:HB2	2.21	0.41
1:E:3710:LEU:HD11	1:E:3781:GLN:NE2	2.35	0.41
1:E:3825:GLU:O	1:E:3827:GLY:N	2.48	0.41
1:E:4239:GLU:OE1	1:E:4675:LYS:HD2	2.21	0.41
1:E:4715:TYR:O	1:E:4716:TRP:CG	2.73	0.41
1:E:4724:VAL:O	1:E:4727:LYS:O	2.39	0.41
1:E:4891:VAL:HG12	1:G:4921:PHE:CE2	2.56	0.41
1:G:46:LEU:HD13	1:G:125:ARG:HH22	1.86	0.41
1:G:826:ILE:O	1:G:828:GLU:N	2.54	0.41
1:G:1297:PHE:CZ	1:G:1519:LEU:HD21	2.56	0.41
1:G:1695:LEU:O	1:G:1699:GLU:HG3	2.21	0.41
1:G:1775:HIS:CE1	1:G:1777:PHE:CE2	3.09	0.41
1:G:2506:LEU:HD21	1:G:2517:PHE:HE2	1.85	0.41
1:G:2735:PHE:HD2	1:G:2891:LYS:HD2	1.86	0.41
1:G:2755:ILE:HG23	1:G:2809:ILE:HG21	2.02	0.41
1:G:4721:LYS:HZ3	1:G:4741:LEU:HD22	1.86	0.41
1:G:4776:GLN:HA	1:G:4779:LYS:HG2	2.02	0.41
1:G:4931:ILE:HG21	1:G:4931:ILE:HD13	1.75	0.41
1:A:595:ARG:NH2	1:A:1641:ILE:HD11	2.27	0.41
1:A:1660:GLN:HE22	1:A:1704:PRO:HB2	1.86	0.41
1:A:2495:VAL:N	1:A:2496:PRO:HD2	2.35	0.41
1:A:3766:GLN:O	1:A:3769:ARG:HB3	2.21	0.41
1:A:4201:ASN:HB3	1:A:4990:PHE:CE1	2.55	0.41
1:A:4242:ILE:HG12	1:A:4993:MET:HG2	2.03	0.41
1:A:4724:VAL:O	1:A:4727:LYS:O	2.39	0.41
1:A:4978:HIS:HA	1:A:4982:GLU:HB2	2.03	0.41
1:C:46:LEU:HD13	1:C:125:ARG:HH22	1.86	0.41
1:C:107:ILE:HD12	1:C:109:LEU:HD21	2.03	0.41
1:C:400:ALA:HB2	1:C:451:TYR:OH	2.20	0.41
1:C:882:TRP:CZ3	1:C:907:LEU:HD23	2.56	0.41
1:C:1275:ARG:HG3	1:C:1277:TRP:HE1	1.86	0.41
1:C:1290:ARG:HG2	1:C:1551:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2876:GLU:OE2	1:C:2908:TYR:HE2	2.04	0.41
1:C:3766:GLN:O	1:C:3769:ARG:HB3	2.21	0.41
1:C:4219:PHE:CD1	1:C:4950:VAL:HG21	2.57	0.41
1:C:4242:ILE:HG12	1:C:4993:MET:HG2	2.03	0.41
1:C:4697:VAL:C	1:C:4700:GLN:H	2.29	0.41
1:C:4886:HIS:O	1:C:4890:GLY:HA3	2.22	0.41
1:E:347:PHE:CE1	1:E:387:ALA:HA	2.52	0.41
1:E:2096:GLU:H	1:E:2096:GLU:CD	2.29	0.41
1:E:2165:LEU:HD21	1:E:2177:LEU:CB	2.51	0.41
1:E:2254:LEU:O	1:E:2258:LEU:HG	2.21	0.41
1:G:882:TRP:CZ3	1:G:907:LEU:HD23	2.56	0.41
1:G:1125:ASN:OD1	1:G:1132:TRP:HZ3	2.03	0.41
1:G:1126:GLY:HA3	1:G:1143:TRP:CE2	2.56	0.41
1:G:1194:LEU:HD22	1:G:1198:GLN:O	2.21	0.41
1:G:1660:GLN:HE22	1:G:1704:PRO:HB2	1.86	0.41
1:G:1851:MET:HE2	1:G:1853:ILE:HD11	2.03	0.41
1:G:2142:TYR:CD2	1:G:2197:LEU:HD12	2.56	0.41
1:G:2194:HIS:O	1:G:2198:MET:HG2	2.20	0.41
1:G:2293:GLN:O	1:G:2296:GLU:HB2	2.21	0.41
1:G:4797:VAL:O	1:G:4800:LEU:HB2	2.20	0.41
1:G:4925:ILE:HG23	1:G:4929:LEU:HD12	2.02	0.41
1:A:16:THR:N	1:A:99:ARG:O	2.46	0.40
1:A:151:HIS:HA	1:A:152:PRO:HD2	1.95	0.40
1:A:284:HIS:CD2	1:A:287:THR:HG23	2.56	0.40
1:A:984:LEU:O	1:A:988:LEU:HG	2.21	0.40
1:A:1130:GLN:HB2	1:A:1137:GLU:O	2.21	0.40
1:A:1297:PHE:CZ	1:A:1519:LEU:HD21	2.56	0.40
1:A:1822:GLY:C	1:A:1929:MET:HE1	2.46	0.40
1:A:3884:LEU:O	1:A:3887:PHE:HB3	2.21	0.40
1:A:4219:PHE:CD1	1:A:4950:VAL:HG21	2.56	0.40
1:A:4862:PHE:C	1:A:4864:ASN:H	2.28	0.40
2:B:4:VAL:HG22	2:B:74:LEU:HG	2.02	0.40
1:C:720:HIS:HA	1:C:728:ARG:O	2.21	0.40
1:C:1436:SER:N	1:C:1516:ILE:HA	2.33	0.40
1:C:1660:GLN:HE22	1:C:1704:PRO:HB2	1.86	0.40
1:C:2114:PRO:C	1:C:2116:LEU:N	2.79	0.40
1:C:2209:GLU:O	1:C:2212:VAL:HB	2.21	0.40
1:C:2254:LEU:O	1:C:2258:LEU:HG	2.22	0.40
1:C:3710:LEU:HD11	1:C:3781:GLN:NE2	2.36	0.40
1:C:3839:CYS:SG	1:C:3881:THR:HG21	2.61	0.40
1:C:4724:VAL:O	1:C:4727:LYS:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:453:GLU:HA	1:E:454:PRO:HD3	1.86	0.40
1:E:1126:GLY:HA3	1:E:1143:TRP:CE2	2.56	0.40
1:E:2191:PHE:HZ	1:E:2239:PHE:HD1	1.69	0.40
1:E:2205:GLU:OE1	1:E:2253:HIS:NE2	2.55	0.40
1:E:2305:CYS:O	1:E:2325:PRO:HG2	2.20	0.40
1:E:2876:GLU:OE2	1:E:2908:TYR:HE2	2.04	0.40
1:E:4201:ASN:HB3	1:E:4990:PHE:CE1	2.55	0.40
1:E:4219:PHE:CD1	1:E:4950:VAL:HG21	2.56	0.40
1:E:4581:LYS:O	1:E:4630:TYR:N	2.45	0.40
1:E:4888:TYR:CD1	1:G:4914:VAL:HG23	2.56	0.40
2:F:4:VAL:HG22	2:F:74:LEU:HG	2.02	0.40
1:G:203:ASN:HA	1:G:204:PRO:HD2	1.95	0.40
1:G:595:ARG:HH12	1:G:1641:ILE:HD11	1.86	0.40
1:G:925:SER:O	1:G:929:LEU:HG	2.21	0.40
1:G:2495:VAL:H	1:G:2496:PRO:HD2	1.85	0.40
1:G:2799:GLU:HA	1:G:2802:LYS:HD2	2.02	0.40
1:G:4715:TYR:HD2	1:G:4717:ASP:HB3	1.86	0.40
1:A:12:GLN:O	1:A:165:VAL:HG23	2.21	0.40
1:A:646:PRO:HB2	1:A:793:LEU:HD11	2.03	0.40
1:A:1126:GLY:HA3	1:A:1143:TRP:CE2	2.56	0.40
1:A:1290:ARG:HG2	1:A:1551:ALA:HB2	2.02	0.40
1:A:1293:LEU:HD23	1:A:1584:ARG:HG2	2.03	0.40
1:A:4174:PHE:O	1:A:4178:LEU:N	2.50	0.40
2:B:46:PHE:CE2	2:B:48:PHE:CD1	3.09	0.40
1:C:2191:PHE:HZ	1:C:2239:PHE:HD1	1.69	0.40
1:C:3884:LEU:O	1:C:3887:PHE:HB3	2.21	0.40
1:C:4053:SER:O	1:C:4057:MET:HG2	2.21	0.40
1:E:16:THR:N	1:E:99:ARG:O	2.46	0.40
1:E:232:THR:OG1	1:E:233:ILE:N	2.55	0.40
1:E:646:PRO:HB2	1:E:793:LEU:HD11	2.03	0.40
1:E:1106:ARG:HA	1:E:1107:PRO:HD3	1.94	0.40
1:E:1207:ASP:O	1:E:1210:SER:OG	2.21	0.40
1:E:1676:LEU:HG	1:E:1725:ARG:HE	1.85	0.40
1:E:1777:PHE:CD1	1:E:1801:ALA:HA	2.56	0.40
1:E:2194:HIS:O	1:E:2198:MET:HG2	2.20	0.40
1:E:2341:VAL:HG22	1:E:2342:ASN:N	2.34	0.40
1:E:4115:SER:HA	1:E:4128:PHE:CD1	2.57	0.40
1:E:4706:LEU:HD12	1:E:4707:ASN:N	2.36	0.40
1:E:4851:TYR:CE1	1:E:4920:PHE:HB2	2.57	0.40
1:E:4886:HIS:O	1:E:4890:GLY:HA3	2.21	0.40
2:F:2:VAL:HG23	2:F:76:ILE:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1078:GLU:HG3	1:G:1237:TRP:CZ2	2.55	0.40
1:G:1293:LEU:HD23	1:G:1584:ARG:HG2	2.04	0.40
1:G:1632:ASP:HA	1:G:1633:PRO:HD2	1.94	0.40
1:G:2104:ARG:HD2	1:G:2107:GLN:OE1	2.21	0.40
1:G:3562:LYS:O	1:G:3566:SER:N	2.53	0.40
1:A:600:LEU:HD23	1:A:1666:THR:HA	2.03	0.40
1:A:637:LEU:HD23	1:A:1693:GLN:HA	2.02	0.40
1:A:882:TRP:CZ3	1:A:907:LEU:HD23	2.57	0.40
1:A:3878:ASP:OD2	1:A:3953:LYS:HE3	2.22	0.40
1:A:4958:CYS:SG	1:A:4959:PHE:N	2.94	0.40
1:C:74:SER:O	1:C:78:LEU:N	2.41	0.40
1:C:233:ILE:HD12	1:C:242:ARG:HG2	2.02	0.40
1:C:752:VAL:HA	1:C:753:PRO:HD3	1.80	0.40
1:C:1961:PHE:CZ	1:C:2063:LEU:HD23	2.55	0.40
1:C:2129:ASP:HB2	1:C:3669:PHE:CE1	2.56	0.40
1:C:2159:LEU:HA	1:C:2162:ILE:HG22	2.03	0.40
1:C:2293:GLN:O	1:C:2296:GLU:HB2	2.21	0.40
1:C:2754:PHE:CZ	1:C:2930:LEU:HD23	2.57	0.40
1:C:3705:PHE:CD1	1:C:3722:TYR:HD1	2.39	0.40
1:C:4115:SER:HA	1:C:4128:PHE:CD1	2.57	0.40
1:C:4229:GLU:O	1:C:4232:GLU:HB3	2.21	0.40
1:C:4774:LYS:HA	1:C:4777:ILE:HG22	2.03	0.40
1:C:4851:TYR:CE1	1:C:4920:PHE:HB2	2.56	0.40
1:E:46:LEU:HD13	1:E:125:ARG:HH22	1.86	0.40
1:E:553:ARG:C	1:E:555:GLU:H	2.30	0.40
1:E:882:TRP:CZ3	1:E:907:LEU:HD23	2.56	0.40
1:E:1519:LEU:HD13	1:E:1527:MET:HG2	2.02	0.40
1:E:1851:MET:HE2	1:E:1853:ILE:HD11	2.03	0.40
1:E:2126:ARG:CZ	1:E:2133:GLU:OE2	2.69	0.40
1:E:2208:MET:HE1	1:E:2253:HIS:HB2	2.03	0.40
1:E:2773:ASN:HD22	1:E:2775:TRP:HE1	1.69	0.40
1:E:4036:VAL:HG23	1:E:5032:TYR:CD2	2.57	0.40
1:E:4053:SER:O	1:E:4057:MET:HG2	2.21	0.40
1:E:4089:SER:HA	1:E:4122:MET:HA	2.04	0.40
1:E:4242:ILE:HG12	1:E:4993:MET:HG2	2.04	0.40
1:E:4931:ILE:HD13	1:E:4931:ILE:HG21	1.74	0.40
1:G:554:LEU:HG	1:G:593:HIS:HE1	1.86	0.40
1:G:1822:GLY:C	1:G:1929:MET:HE1	2.46	0.40
1:G:2236:LEU:HB3	1:G:2250:MET:HE2	2.03	0.40
1:G:3995:VAL:O	1:G:3999:MET:HB3	2.22	0.40
1:G:4205:TRP:HB2	1:G:4245:MET:HE1	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4794:TRP:O	1:G:4797:VAL:HG12	2.21	0.40
1:G:4833:ASN:O	1:G:4837:LEU:N	2.54	0.40
2:H:16:PRO:HD2	2:H:64:ALA:HA	2.04	0.40
1:A:107:ILE:HD12	1:A:109:LEU:HD21	2.03	0.40
1:A:284:HIS:NE2	1:A:286:THR:OG1	2.52	0.40
1:A:308:HIS:CE1	1:A:311:ALA:HB2	2.56	0.40
1:A:375:LYS:NZ	1:A:377:ILE:HG22	2.36	0.40
1:A:1085:SER:O	1:A:1088:TRP:NE1	2.40	0.40
1:A:1280:GLN:O	1:A:1559:GLN:NE2	2.54	0.40
1:A:3710:LEU:HD23	1:A:3710:LEU:HA	1.90	0.40
1:A:3949:ARG:O	1:A:3952:SER:OG	2.31	0.40
1:A:4937:ILE:HG12	1:C:4934:GLY:CA	2.49	0.40
2:B:87:HIS:CE1	2:B:90:ILE:HD13	2.56	0.40
1:C:2121:PHE:CG	1:C:3701:LEU:HD12	2.56	0.40
1:C:2205:GLU:OE1	1:C:2253:HIS:NE2	2.54	0.40
1:C:3752:SER:O	1:C:3756:LYS:HB2	2.21	0.40
1:C:4779:LYS:O	1:C:4783:ILE:HG13	2.21	0.40
1:E:308:HIS:CE1	1:E:311:ALA:HB2	2.57	0.40
1:E:345:LEU:HD13	1:E:387:ALA:HB1	2.02	0.40
1:E:925:SER:O	1:E:929:LEU:HG	2.21	0.40
1:E:1745:ILE:HD12	1:E:1960:ALA:HB2	2.02	0.40
1:E:1829:PRO:HD2	1:E:1832:GLY:HA2	2.03	0.40
1:E:1841:VAL:O	1:E:1845:VAL:HG23	2.21	0.40
1:E:2129:ASP:HB2	1:E:3669:PHE:CE1	2.56	0.40
1:E:2142:TYR:CD2	1:E:2197:LEU:HD12	2.56	0.40
1:E:3884:LEU:O	1:E:3887:PHE:HB3	2.21	0.40
1:E:4156:HIS:O	1:E:4156:HIS:ND1	2.54	0.40
1:E:4229:GLU:O	1:E:4232:GLU:HB3	2.21	0.40
1:E:4779:LYS:O	1:E:4783:ILE:HG13	2.21	0.40
1:G:649:PHE:HE1	1:G:689:THR:HG22	1.82	0.40
1:G:1436:SER:N	1:G:1516:ILE:HA	2.31	0.40
1:G:1519:LEU:HD13	1:G:1527:MET:HG2	2.02	0.40
1:G:1856:ASP:O	1:G:1860:LYS:HG3	2.22	0.40
1:G:2495:VAL:N	1:G:2496:PRO:HD2	2.36	0.40
1:G:4154:VAL:O	1:G:4154:VAL:HG13	2.22	0.40
1:G:4662:ASN:HA	1:G:4666:VAL:HG21	2.03	0.40
1:G:4809:PHE:O	1:G:4812:HIS:ND1	2.38	0.40
1:A:855:PRO:HD3	1:A:994:ASN:HB3	2.03	0.40
1:A:1126:GLY:HA2	1:A:1143:TRP:NE1	2.36	0.40
1:A:1695:LEU:O	1:A:1699:GLU:HG3	2.21	0.40
1:A:2096:GLU:H	1:A:2096:GLU:CD	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2293:GLN:O	1:A:2296:GLU:HB2	2.21	0.40
1:A:2451:LEU:O	1:A:2454:ARG:HB3	2.22	0.40
1:A:2813:LEU:HD22	1:A:2823:ILE:HD13	2.03	0.40
1:A:4671:PHE:CE1	1:A:4715:TYR:HA	2.57	0.40
1:A:4879:MET:CG	1:G:4578:LEU:HA	2.50	0.40
1:A:4940:PHE:HD2	1:C:4938:ASP:OD2	2.02	0.40
1:C:135:VAL:HG21	1:C:191:VAL:HG12	2.03	0.40
1:C:4776:GLN:HA	1:C:4779:LYS:HG2	2.03	0.40
2:D:46:PHE:CE2	2:D:48:PHE:CD1	3.09	0.40
1:E:107:ILE:HD12	1:E:109:LEU:HD21	2.03	0.40
1:E:916:PRO:O	1:E:919:ASN:HB2	2.21	0.40
1:E:1514:LEU:HD12	1:E:1533:GLY:HA3	2.03	0.40
1:E:1585:LYS:CB	1:E:1587:PRO:HD2	2.51	0.40
1:E:1822:GLY:C	1:E:1929:MET:HE1	2.46	0.40
1:E:2114:PRO:C	1:E:2116:LEU:N	2.79	0.40
1:E:2208:MET:O	1:E:2212:VAL:HG23	2.22	0.40
1:E:2208:MET:O	1:E:2211:MET:HB3	2.22	0.40
1:E:2813:LEU:HD22	1:E:2823:ILE:HD13	2.03	0.40
1:E:3705:PHE:CD1	1:E:3722:TYR:HD1	2.39	0.40
1:E:3878:ASP:OD2	1:E:3953:LYS:HE3	2.22	0.40
1:E:4222:VAL:HG11	1:E:4950:VAL:HA	2.04	0.40
1:E:4667:PRO:O	1:E:4670:ILE:HG22	2.22	0.40
1:G:135:VAL:HG21	1:G:191:VAL:HG12	2.03	0.40
1:G:404:ILE:HG12	1:G:478:PHE:CD1	2.57	0.40
1:G:521:LEU:O	1:G:525:LEU:N	2.46	0.40
1:G:685:GLY:O	1:G:780:VAL:HB	2.21	0.40
1:G:1024:TYR:CE1	1:G:1032:LYS:HG3	2.57	0.40
1:G:1126:GLY:HA2	1:G:1143:TRP:NE1	2.37	0.40
1:G:3462:ASN:O	1:G:3466:ASN:N	2.50	0.40
1:G:3884:LEU:O	1:G:3887:PHE:HB3	2.22	0.40
1:G:4715:TYR:CD2	1:G:4717:ASP:HB3	2.57	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	3496/5037 (69%)	3173 (91%)	220 (6%)	103 (3%)	3	24
1	C	3496/5037 (69%)	3169 (91%)	223 (6%)	104 (3%)	3	23
1	E	3496/5037 (69%)	3169 (91%)	223 (6%)	104 (3%)	3	23
1	G	3496/5037 (69%)	3169 (91%)	226 (6%)	101 (3%)	3	24
2	B	105/108 (97%)	92 (88%)	12 (11%)	1 (1%)	12	47
2	D	105/108 (97%)	92 (88%)	12 (11%)	1 (1%)	12	47
2	F	105/108 (97%)	92 (88%)	12 (11%)	1 (1%)	12	47
2	H	105/108 (97%)	89 (85%)	15 (14%)	1 (1%)	12	47
All	All	14404/20580 (70%)	13045 (91%)	943 (6%)	416 (3%)	5	24

All (416) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	689	THR
1	A	720	HIS
1	A	806	PRO
1	A	916	PRO
1	A	1253	PRO
1	A	1589	PRO
1	A	1768	THR
1	A	1853	ILE
1	A	2203	MET
1	A	2466	LEU
1	A	4084	PRO
1	A	4958	CYS
1	C	689	THR
1	C	720	HIS
1	C	806	PRO
1	C	916	PRO
1	C	1253	PRO
1	C	1589	PRO
1	C	1768	THR
1	C	1853	ILE
1	C	2203	MET
1	C	2466	LEU
1	C	4084	PRO
1	C	4958	CYS

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Mol	Chain	Res	Type
1	E	689	THR
1	E	720	HIS
1	E	806	PRO
1	E	916	PRO
1	E	1253	PRO
1	E	1589	PRO
1	E	1768	THR
1	E	1853	ILE
1	E	2203	MET
1	E	2466	LEU
1	E	4084	PRO
1	E	4958	CYS
1	G	689	THR
1	G	720	HIS
1	G	806	PRO
1	G	916	PRO
1	G	1253	PRO
1	G	1589	PRO
1	G	1768	THR
1	G	1853	ILE
1	G	2203	MET
1	G	2466	LEU
1	G	3679	LYS
1	G	3843	ASP
1	G	4084	PRO
1	G	4115	SER
1	G	4958	CYS
1	G	4985	LEU
1	A	207	SER
1	A	251	ALA
1	A	508	GLY
1	A	581	ASN
1	A	817	PRO
1	A	882	TRP
1	A	1542	VAL
1	A	1544	PRO
1	A	1854	PHE
1	A	2110	TYR
1	A	2341	VAL
1	A	2560	PRO
1	A	3679	LYS
1	A	3714	SER

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Mol	Chain	Res	Type
1	A	3843	ASP
1	A	3894	GLY
1	A	3906	GLN
1	A	4031	LEU
1	A	4076	ALA
1	A	4085	ARG
1	A	4115	SER
1	A	4207	MET
1	A	4208	PRO
1	A	4733	GLY
1	A	4875	LYS
1	A	4893	ALA
1	A	4894	GLY
1	A	5027	CYS
2	B	88	PRO
1	C	251	ALA
1	C	508	GLY
1	C	581	ASN
1	C	817	PRO
1	C	882	TRP
1	C	1542	VAL
1	C	1544	PRO
1	C	1854	PHE
1	C	2110	TYR
1	C	2341	VAL
1	C	2560	PRO
1	C	3679	LYS
1	C	3714	SER
1	C	3843	ASP
1	C	3894	GLY
1	C	3906	GLN
1	C	4031	LEU
1	C	4076	ALA
1	C	4085	ARG
1	C	4115	SER
1	C	4207	MET
1	C	4208	PRO
1	C	4733	GLY
1	C	4875	LYS
1	C	4894	GLY
1	C	5027	CYS
2	D	88	PRO

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Mol	Chain	Res	Type
1	E	251	ALA
1	E	508	GLY
1	E	581	ASN
1	E	817	PRO
1	E	882	TRP
1	E	1542	VAL
1	E	1544	PRO
1	E	1854	PHE
1	E	2110	TYR
1	E	2341	VAL
1	E	2560	PRO
1	E	3679	LYS
1	E	3714	SER
1	E	3843	ASP
1	E	3894	GLY
1	E	3906	GLN
1	E	4031	LEU
1	E	4076	ALA
1	E	4085	ARG
1	E	4115	SER
1	E	4207	MET
1	E	4208	PRO
1	E	4733	GLY
1	E	4875	LYS
1	E	4893	ALA
1	E	4894	GLY
1	E	5027	CYS
2	F	88	PRO
1	G	207	SER
1	G	251	ALA
1	G	508	GLY
1	G	581	ASN
1	G	817	PRO
1	G	882	TRP
1	G	1542	VAL
1	G	1544	PRO
1	G	1854	PHE
1	G	2110	TYR
1	G	2341	VAL
1	G	2560	PRO
1	G	3714	SER
1	G	3806	ASN

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Mol	Chain	Res	Type
1	G	3894	GLY
1	G	3906	GLN
1	G	4031	LEU
1	G	4076	ALA
1	G	4085	ARG
1	G	4207	MET
1	G	4208	PRO
1	G	4733	GLY
1	G	4875	LYS
1	G	4890	GLY
1	G	4894	GLY
1	G	5027	CYS
2	H	88	PRO
1	A	401	ALA
1	A	609	CYS
1	A	676	THR
1	A	753	PRO
1	A	767	VAL
1	A	827	LYS
1	A	828	GLU
1	A	908	VAL
1	A	970	LEU
1	A	1156	THR
1	A	1294	PRO
1	A	1436	SER
1	A	1489	CYS
1	A	1560	ASN
1	A	1606	SER
1	A	1611	HIS
1	A	1676	LEU
1	A	1690	ASP
1	A	1825	HIS
1	A	2360	LYS
1	A	2826	ALA
1	A	3721	LEU
1	A	3806	ASN
1	A	3809	ASN
1	A	4036	VAL
1	A	4120	ASN
1	A	4550	LYS
1	A	4728	HIS
1	A	4959	PHE

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Mol	Chain	Res	Type
1	A	4985	LEU
1	C	44	ASN
1	C	207	SER
1	C	401	ALA
1	C	609	CYS
1	C	676	THR
1	C	753	PRO
1	C	767	VAL
1	C	827	LYS
1	C	828	GLU
1	C	908	VAL
1	C	970	LEU
1	C	1156	THR
1	C	1294	PRO
1	C	1436	SER
1	C	1489	CYS
1	C	1560	ASN
1	C	1606	SER
1	C	1611	HIS
1	C	1676	LEU
1	C	1690	ASP
1	C	1825	HIS
1	C	2360	LYS
1	C	2826	ALA
1	C	3721	LEU
1	C	3806	ASN
1	C	3809	ASN
1	C	4036	VAL
1	C	4120	ASN
1	C	4550	LYS
1	C	4728	HIS
1	C	4893	ALA
1	C	4959	PHE
1	C	4985	LEU
1	E	44	ASN
1	E	207	SER
1	E	401	ALA
1	E	609	CYS
1	E	676	THR
1	E	753	PRO
1	E	767	VAL
1	E	827	LYS

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Mol	Chain	Res	Type
1	E	828	GLU
1	E	908	VAL
1	E	970	LEU
1	E	1156	THR
1	E	1294	PRO
1	E	1436	SER
1	E	1458	HIS
1	E	1489	CYS
1	E	1560	ASN
1	E	1606	SER
1	E	1611	HIS
1	E	1676	LEU
1	E	1690	ASP
1	E	1825	HIS
1	E	2360	LYS
1	E	2826	ALA
1	E	3721	LEU
1	E	3806	ASN
1	E	3809	ASN
1	E	4036	VAL
1	E	4120	ASN
1	E	4550	LYS
1	E	4728	HIS
1	E	4959	PHE
1	E	4985	LEU
1	G	44	ASN
1	G	401	ALA
1	G	609	CYS
1	G	676	THR
1	G	753	PRO
1	G	767	VAL
1	G	827	LYS
1	G	828	GLU
1	G	908	VAL
1	G	970	LEU
1	G	1156	THR
1	G	1294	PRO
1	G	1436	SER
1	G	1489	CYS
1	G	1560	ASN
1	G	1606	SER
1	G	1611	HIS

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Mol	Chain	Res	Type
1	G	1676	LEU
1	G	1690	ASP
1	G	1825	HIS
1	G	2360	LYS
1	G	3721	LEU
1	G	3809	ASN
1	G	4120	ASN
1	G	4550	LYS
1	G	4959	PHE
1	A	24	CYS
1	A	44	ASN
1	A	56	GLN
1	A	342	GLY
1	A	700	GLU
1	A	826	ILE
1	A	915	GLU
1	A	1206	GLN
1	A	1251	GLU
1	A	1482	ASN
1	A	1487	LEU
1	A	1614	GLN
1	A	2107	GLN
1	A	2113	SER
1	A	4052	SER
1	C	24	CYS
1	C	56	GLN
1	C	342	GLY
1	C	700	GLU
1	C	826	ILE
1	C	915	GLU
1	C	1206	GLN
1	C	1251	GLU
1	C	1482	ASN
1	C	1487	LEU
1	C	1614	GLN
1	C	2107	GLN
1	C	2113	SER
1	C	4052	SER
1	E	24	CYS
1	E	56	GLN
1	E	342	GLY
1	E	700	GLU

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Mol	Chain	Res	Type
1	E	826	ILE
1	E	915	GLU
1	E	1206	GLN
1	E	1251	GLU
1	E	1482	ASN
1	E	1487	LEU
1	E	1614	GLN
1	E	2107	GLN
1	E	2113	SER
1	E	3941	ASP
1	E	4052	SER
1	G	24	CYS
1	G	56	GLN
1	G	342	GLY
1	G	700	GLU
1	G	826	ILE
1	G	915	GLU
1	G	1206	GLN
1	G	1251	GLU
1	G	1482	ASN
1	G	1487	LEU
1	G	1614	GLN
1	G	2107	GLN
1	G	2113	SER
1	G	2826	ALA
1	G	3792	ALA
1	G	3941	ASP
1	G	4893	ALA
1	A	360	ALA
1	A	611	GLY
1	A	1830	VAL
1	A	2377	LEU
1	A	2495	VAL
1	A	3905	THR
1	A	3941	ASP
1	A	4876	CYS
1	C	360	ALA
1	C	611	GLY
1	C	1218	GLY
1	C	1830	VAL
1	C	2377	LEU
1	C	2495	VAL

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Mol	Chain	Res	Type
1	C	2926	LEU
1	C	3905	THR
1	C	3941	ASP
1	C	4876	CYS
1	E	360	ALA
1	E	611	GLY
1	E	1218	GLY
1	E	1830	VAL
1	E	2377	LEU
1	E	3905	THR
1	E	4876	CYS
1	G	360	ALA
1	G	611	GLY
1	G	1218	GLY
1	G	1830	VAL
1	G	2377	LEU
1	G	2495	VAL
1	G	3905	THR
1	A	691	GLY
1	A	1218	GLY
1	A	4819	GLY
1	A	4890	GLY
1	C	691	GLY
1	C	4819	GLY
1	E	691	GLY
1	E	2495	VAL
1	E	4819	GLY
1	G	691	GLY
1	A	865	PRO
1	A	1762	LEU
1	C	865	PRO
1	C	896	VAL
1	C	1762	LEU
1	C	4890	GLY
1	E	865	PRO
1	E	1762	LEU
1	E	4890	GLY
1	G	865	PRO
1	G	1762	LEU
1	A	896	VAL
1	A	1141	ARG
1	A	2343	GLY

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Mol	Chain	Res	Type
1	C	1141	ARG
1	C	2343	GLY
1	E	896	VAL
1	E	1141	ARG
1	E	2343	GLY
1	G	896	VAL
1	G	1141	ARG
1	G	2343	GLY
1	G	3826	VAL
1	C	1053	ILE
1	E	1053	ILE
1	G	1053	ILE
1	A	1053	ILE
1	G	4036	VAL

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	2500/4276 (58%)	2483 (99%)	17 (1%)	76	78
1	C	2501/4276 (58%)	2484 (99%)	17 (1%)	76	78
1	E	2502/4276 (58%)	2483 (99%)	19 (1%)	73	77
1	G	2501/4276 (58%)	2477 (99%)	24 (1%)	68	75
2	B	89/90 (99%)	89 (100%)	0	100	100
2	D	89/90 (99%)	89 (100%)	0	100	100
2	F	89/90 (99%)	89 (100%)	0	100	100
2	H	89/90 (99%)	89 (100%)	0	100	100
All	All	10360/17464 (59%)	10283 (99%)	77 (1%)	73	78

All (77) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	384	MET

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Mol	Chain	Res	Type
1	A	806	PRO
1	A	852	VAL
1	A	862	VAL
1	A	865	PRO
1	A	885	THR
1	A	896	VAL
1	A	914	PRO
1	A	916	PRO
1	A	979	PRO
1	A	1055	PRO
1	A	1096	THR
1	A	1513	ASP
1	A	1829	PRO
1	A	1934	SER
1	A	4555	LEU
1	A	4932	ILE
1	C	384	MET
1	C	806	PRO
1	C	859	VAL
1	C	862	VAL
1	C	865	PRO
1	C	885	THR
1	C	914	PRO
1	C	916	PRO
1	C	979	PRO
1	C	1001	VAL
1	C	1055	PRO
1	C	1096	THR
1	C	1514	LEU
1	C	1829	PRO
1	C	1934	SER
1	C	4233	LEU
1	C	4932	ILE
1	E	384	MET
1	E	806	PRO
1	E	852	VAL
1	E	865	PRO
1	E	885	THR
1	E	896	VAL
1	E	914	PRO
1	E	916	PRO
1	E	979	PRO

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Mol	Chain	Res	Type
1	E	1001	VAL
1	E	1055	PRO
1	E	1096	THR
1	E	1513	ASP
1	E	1514	LEU
1	E	1829	PRO
1	E	1934	SER
1	E	4072	VAL
1	E	4555	LEU
1	E	4932	ILE
1	G	384	MET
1	G	806	PRO
1	G	852	VAL
1	G	859	VAL
1	G	862	VAL
1	G	865	PRO
1	G	885	THR
1	G	896	VAL
1	G	914	PRO
1	G	916	PRO
1	G	979	PRO
1	G	1055	PRO
1	G	1096	THR
1	G	1513	ASP
1	G	1514	LEU
1	G	1829	PRO
1	G	1934	SER
1	G	3926	LEU
1	G	4184	MET
1	G	4233	LEU
1	G	4796	MET
1	G	4850	LEU
1	G	4932	ILE
1	G	4960	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (207) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	12	GLN
1	A	57	ASN
1	A	111	HIS
1	A	113	HIS

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Mol	Chain	Res	Type
1	A	138	GLN
1	A	203	ASN
1	A	349	GLN
1	A	379	HIS
1	A	395	GLN
1	A	413	GLN
1	A	465	GLN
1	A	489	ASN
1	A	495	ASN
1	A	765	GLN
1	A	1127	HIS
1	A	1203	ASN
1	A	1252	HIS
1	A	1274	HIS
1	A	1460	HIS
1	A	1586	ASN
1	A	1610	ASN
1	A	1629	GLN
1	A	1645	ASN
1	A	1663	HIS
1	A	1691	GLN
1	A	1693	GLN
1	A	1775	HIS
1	A	1949	GLN
1	A	1952	GLN
1	A	1972	ASN
1	A	2125	HIS
1	A	2127	GLN
1	A	2247	GLN
1	A	2420	HIS
1	A	2520	HIS
1	A	2773	ASN
1	A	2856	ASN
1	A	3699	HIS
1	A	3704	HIS
1	A	3771	HIS
1	A	3977	GLN
1	A	4209	GLN
1	A	4662	ASN
1	A	4714	ASN
1	A	4806	ASN
1	A	4833	ASN

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Mol	Chain	Res	Type
1	A	4978	HIS
1	A	5031	GLN
2	B	87	HIS
1	C	12	GLN
1	C	23	GLN
1	C	57	ASN
1	C	111	HIS
1	C	113	HIS
1	C	138	GLN
1	C	203	ASN
1	C	349	GLN
1	C	379	HIS
1	C	395	GLN
1	C	413	GLN
1	C	465	GLN
1	C	489	ASN
1	C	495	ASN
1	C	597	HIS
1	C	765	GLN
1	C	1127	HIS
1	C	1133	HIS
1	C	1203	ASN
1	C	1252	HIS
1	C	1274	HIS
1	C	1558	HIS
1	C	1586	ASN
1	C	1610	ASN
1	C	1629	GLN
1	C	1631	GLN
1	C	1640	HIS
1	C	1645	ASN
1	C	1663	HIS
1	C	1665	HIS
1	C	1691	GLN
1	C	1693	GLN
1	C	1775	HIS
1	C	1949	GLN
1	C	1952	GLN
1	C	1972	ASN
1	C	2125	HIS
1	C	2127	GLN
1	C	2247	GLN

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Mol	Chain	Res	Type
1	C	2420	HIS
1	C	2520	HIS
1	C	2773	ASN
1	C	2856	ASN
1	C	2881	ASN
1	C	2931	GLN
1	C	3699	HIS
1	C	3704	HIS
1	C	3771	HIS
1	C	3977	GLN
1	C	4209	GLN
1	C	4662	ASN
1	C	4714	ASN
1	C	4806	ASN
1	C	5031	GLN
2	D	87	HIS
1	E	12	GLN
1	E	57	ASN
1	E	111	HIS
1	E	113	HIS
1	E	138	GLN
1	E	203	ASN
1	E	218	HIS
1	E	349	GLN
1	E	379	HIS
1	E	395	GLN
1	E	413	GLN
1	E	465	GLN
1	E	489	ASN
1	E	495	ASN
1	E	765	GLN
1	E	1127	HIS
1	E	1203	ASN
1	E	1252	HIS
1	E	1274	HIS
1	E	1280	GLN
1	E	1558	HIS
1	E	1586	ASN
1	E	1610	ASN
1	E	1629	GLN
1	E	1640	HIS
1	E	1645	ASN

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Mol	Chain	Res	Type
1	E	1663	HIS
1	E	1665	HIS
1	E	1691	GLN
1	E	1693	GLN
1	E	1775	HIS
1	E	1949	GLN
1	E	1952	GLN
1	E	2125	HIS
1	E	2127	GLN
1	E	2247	GLN
1	E	2420	HIS
1	E	2520	HIS
1	E	2773	ASN
1	E	2856	ASN
1	E	2881	ASN
1	E	3699	HIS
1	E	3704	HIS
1	E	3771	HIS
1	E	3977	GLN
1	E	4209	GLN
1	E	4662	ASN
1	E	4714	ASN
1	E	4803	HIS
1	E	4806	ASN
1	E	4978	HIS
1	E	5031	GLN
2	F	87	HIS
1	G	12	GLN
1	G	57	ASN
1	G	111	HIS
1	G	113	HIS
1	G	138	GLN
1	G	203	ASN
1	G	218	HIS
1	G	349	GLN
1	G	379	HIS
1	G	395	GLN
1	G	413	GLN
1	G	489	ASN
1	G	495	ASN
1	G	593	HIS
1	G	765	GLN

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Mol	Chain	Res	Type
1	G	1127	HIS
1	G	1203	ASN
1	G	1252	HIS
1	G	1274	HIS
1	G	1558	HIS
1	G	1586	ASN
1	G	1610	ASN
1	G	1629	GLN
1	G	1640	HIS
1	G	1645	ASN
1	G	1663	HIS
1	G	1665	HIS
1	G	1691	GLN
1	G	1693	GLN
1	G	1775	HIS
1	G	1949	GLN
1	G	1952	GLN
1	G	2125	HIS
1	G	2127	GLN
1	G	2247	GLN
1	G	2420	HIS
1	G	2520	HIS
1	G	2773	ASN
1	G	2856	ASN
1	G	2924	GLN
1	G	3699	HIS
1	G	3700	GLN
1	G	3704	HIS
1	G	3771	HIS
1	G	4714	ASN
1	G	4806	ASN
1	G	4833	ASN
1	G	4978	HIS
1	G	5031	GLN
2	H	87	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 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 ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

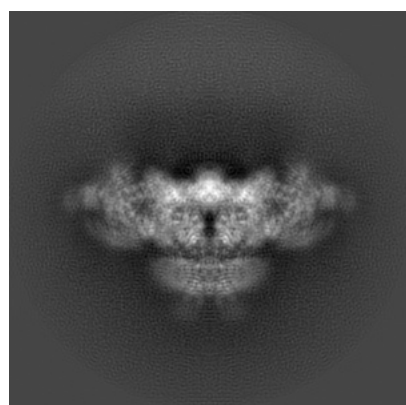
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9520. These allow visual inspection of the internal detail of the map and identification of artifacts.

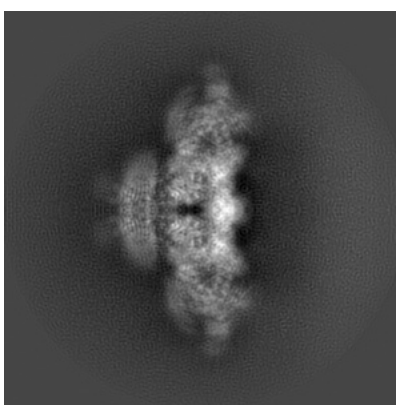
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

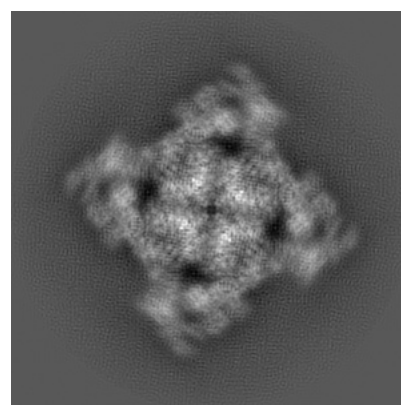
6.1.1 Primary map



X



Y

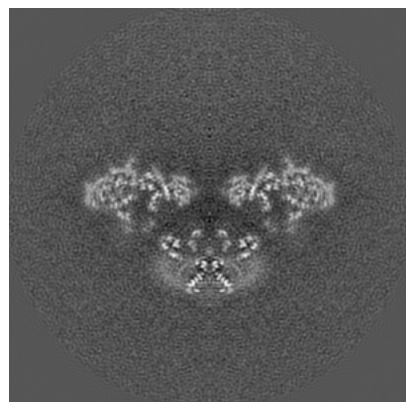


Z

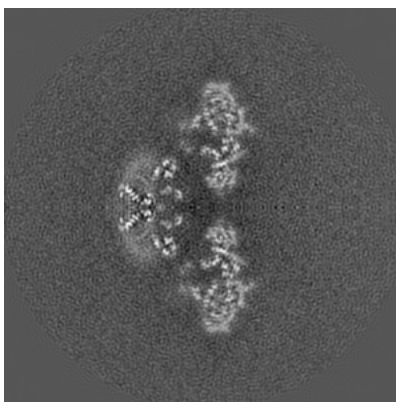
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

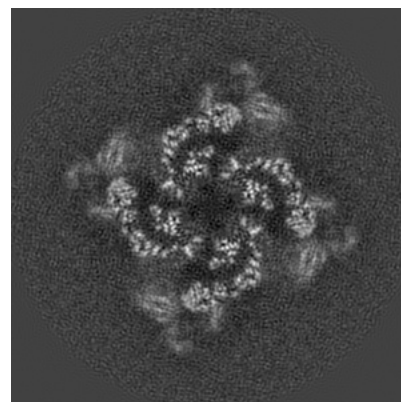
6.2.1 Primary map



X Index: 180



Y Index: 180

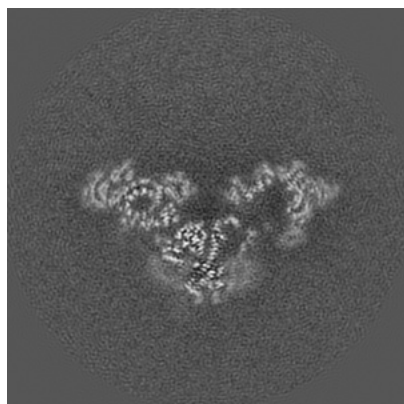


Z Index: 180

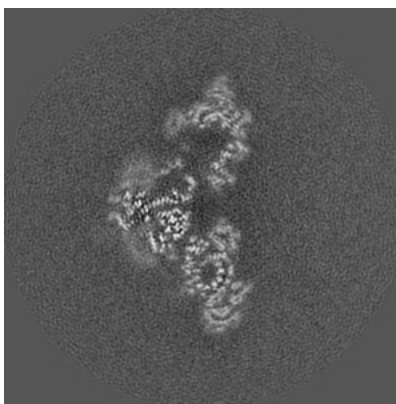
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

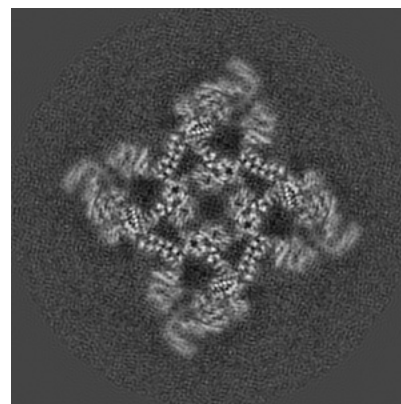
6.3.1 Primary map



X Index: 187



Y Index: 173

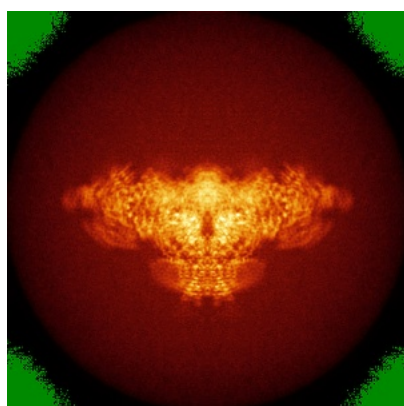


Z Index: 191

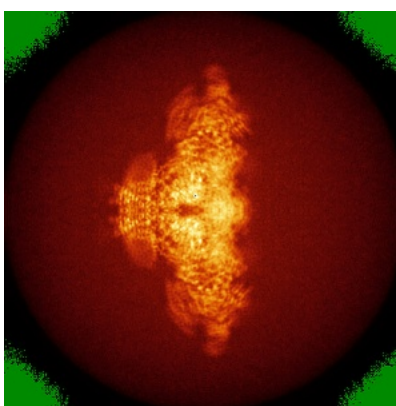
The images above show the largest variance slices of the map in three orthogonal directions.

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

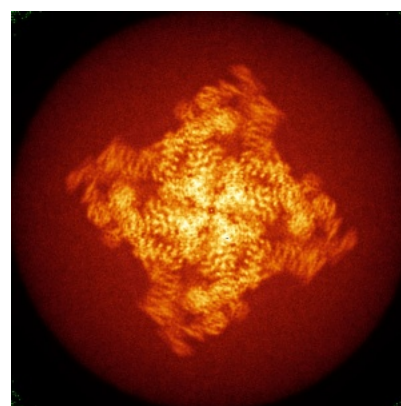
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.09. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

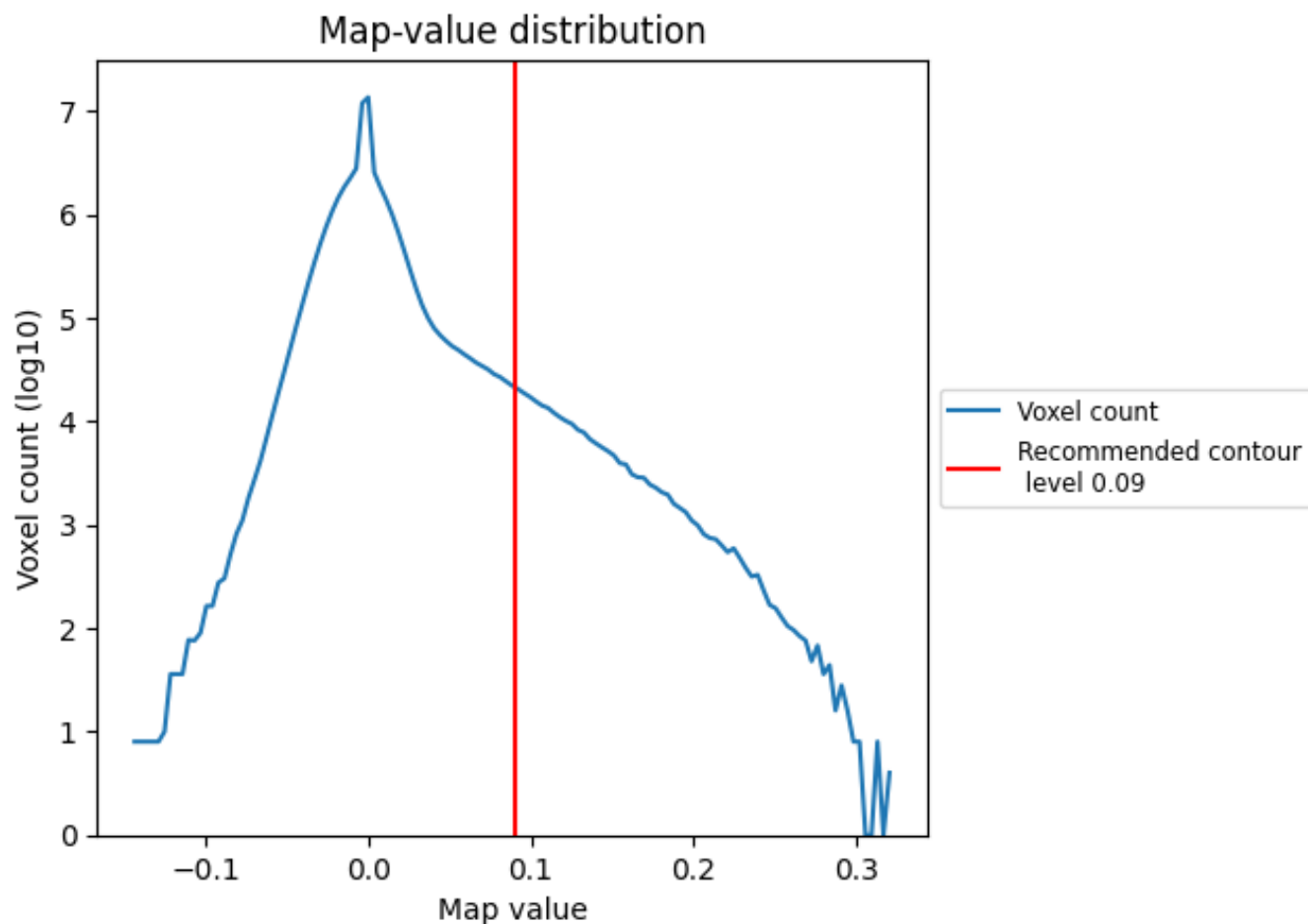
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

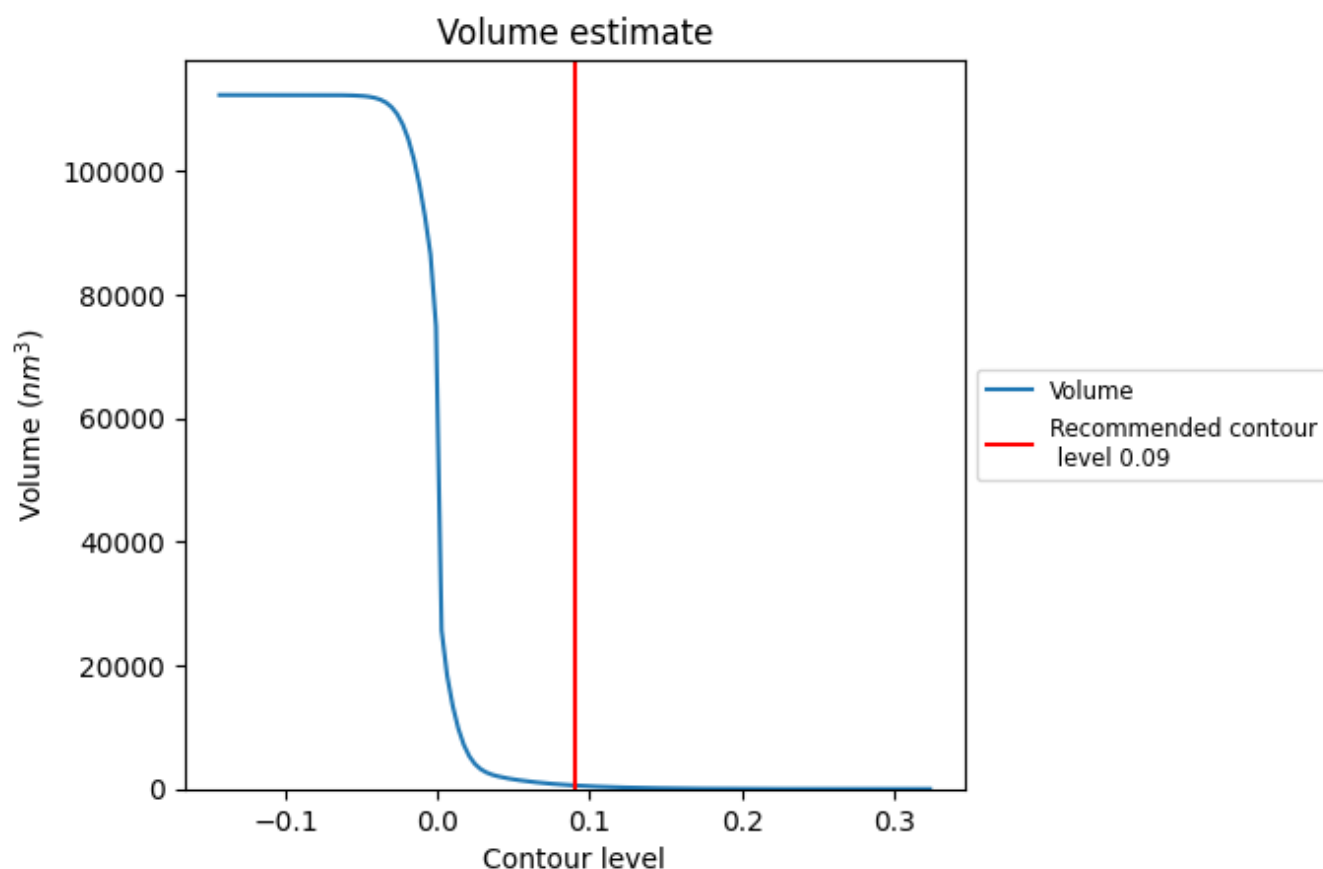
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

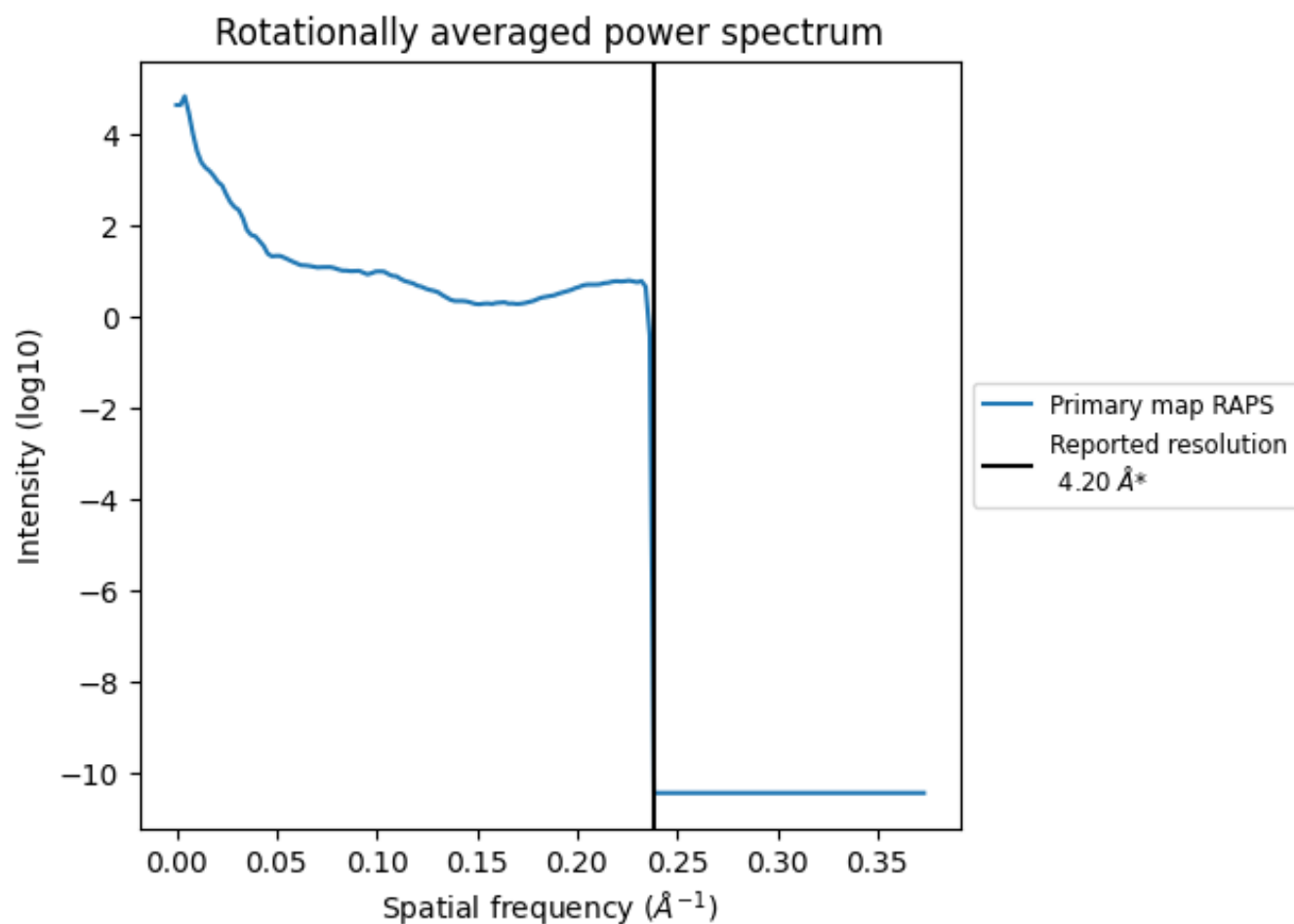
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 572 nm^3 ; this corresponds to an approximate mass of 517 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 0.238 Å⁻¹

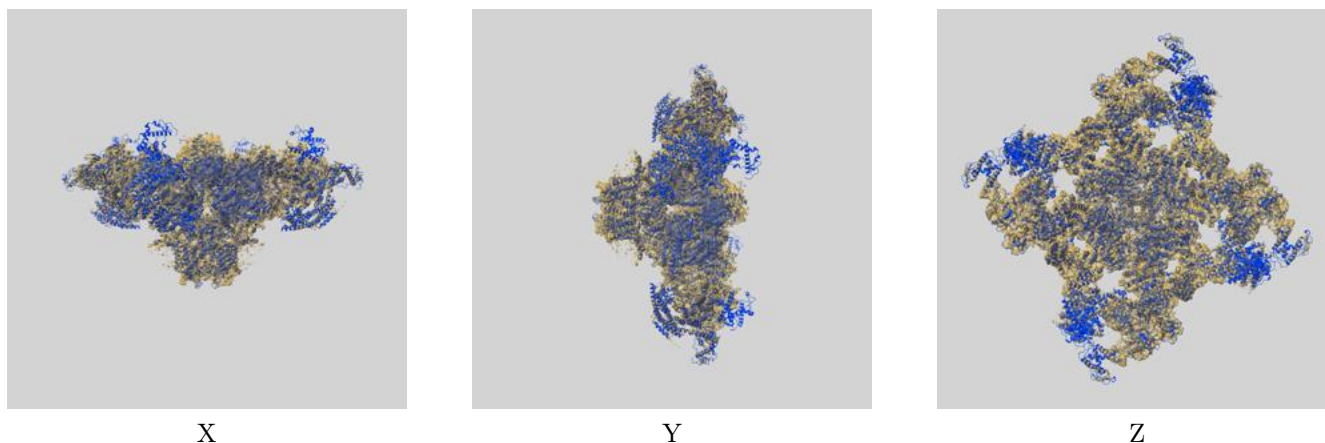
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

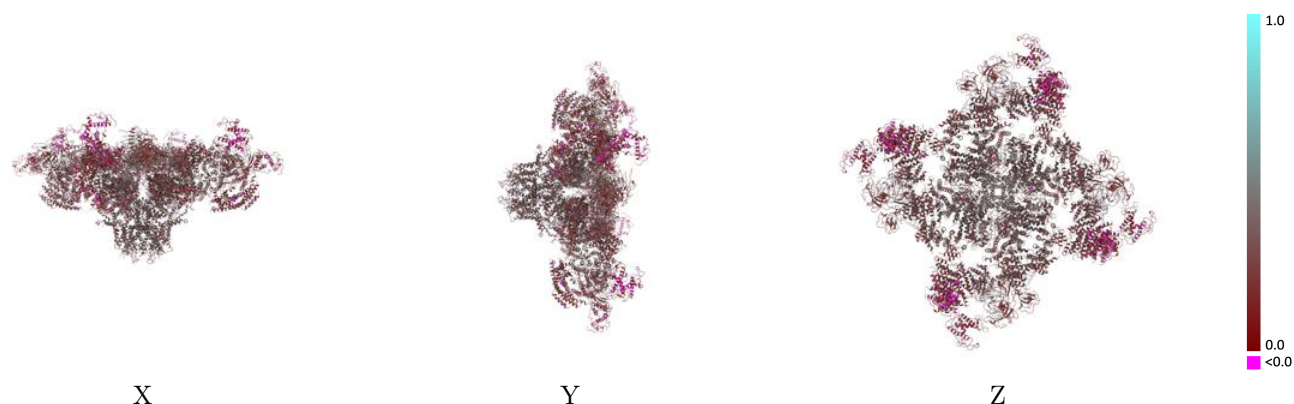
This section contains information regarding the fit between EMDB map EMD-9520 and PDB model 5GL0. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



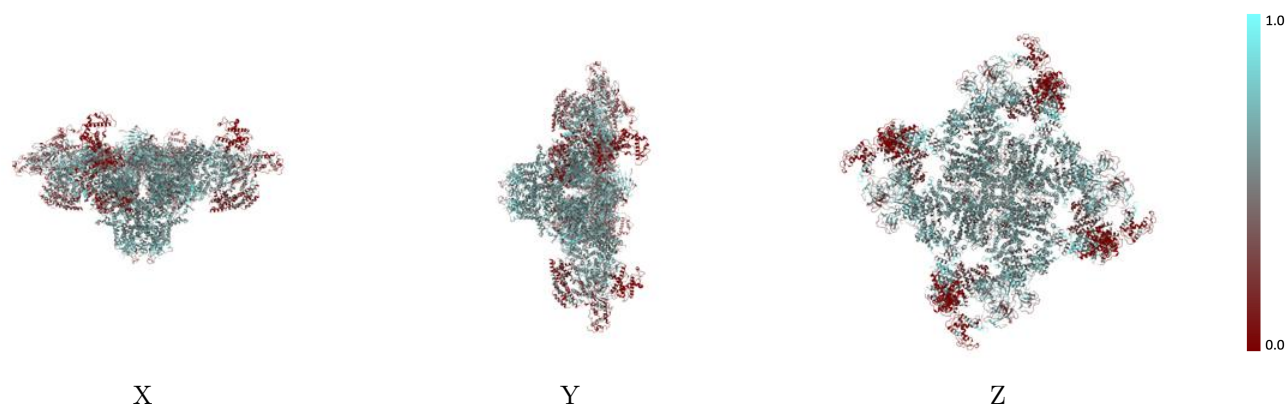
The images above show the 3D surface view of the map at the recommended contour level 0.09 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



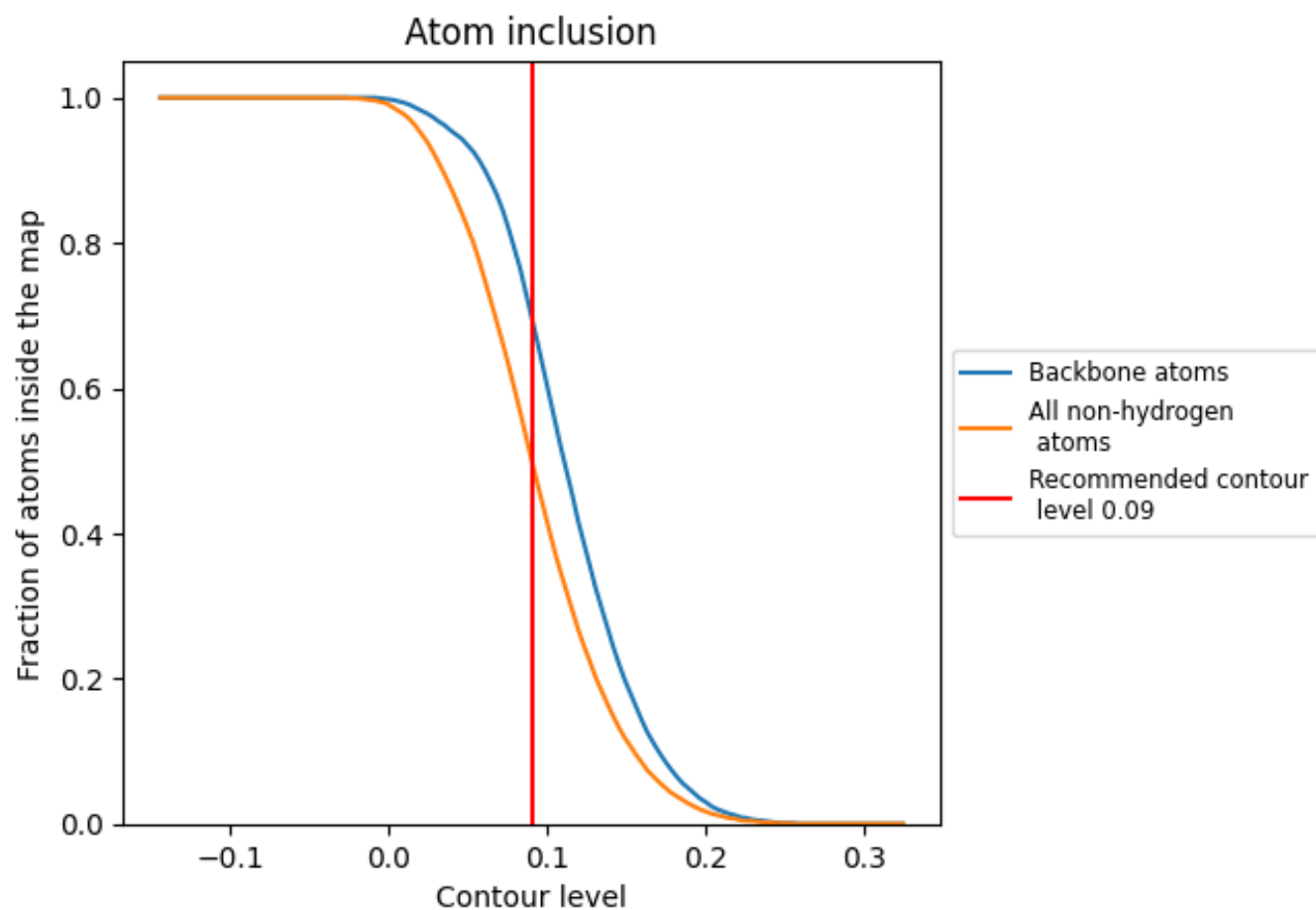
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.09).

9.4 Atom inclusion [i](#)



At the recommended contour level, 70% of all backbone atoms, 50% 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 (0.09) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5020	0.3090
A	0.5030	0.3090
B	0.4670	0.3060
C	0.5020	0.3090
D	0.4670	0.3070
E	0.5030	0.3090
F	0.4660	0.3010
G	0.5040	0.3100
H	0.4710	0.3070

1.0

0.0

<0.0