



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 12:36 PM UTC

PDB ID : 5GL1 / pdb_00005gl1
EMDB ID : EMD-9521
Title : Structure of RyR1 in an open state
Authors : Bai, X.C.; Yan, Z.; Wu, J.P.; Yan, N.
Deposited on : 2016-07-07
Resolution : 5.70 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.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

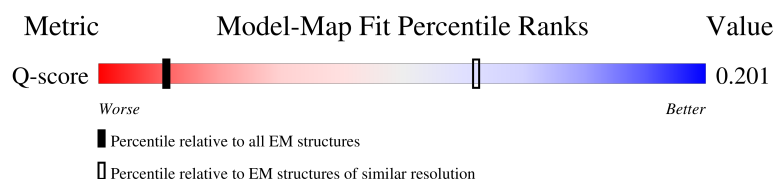
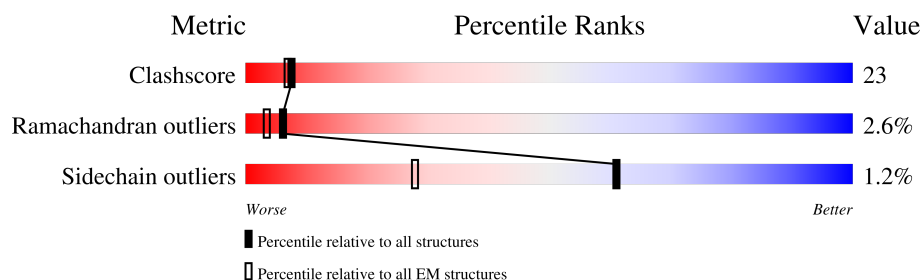
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 5.70 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	503 (5.20 - 6.20)

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	26% 37% 29% 5% 28%
1	C	5037	26% 37% 30% 5% 28%
1	E	5037	26% 37% 29% 5% 28%
1	G	5037	26% 37% 30% 5% 28%

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Mol	Chain	Length	Quality of chain
2	B	108	30% 53% 44% ..
2	D	108	30% 56% 40% ..
2	F	108	30% 56% 41% ..
2	H	108	30% 52% 45% ...

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 110704 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	3645	Total	C	N	O	S	0	0
			26843	17063	4667	4956	157		
1	C	3645	Total	C	N	O	S	0	0
			26843	17063	4667	4956	157		
1	E	3645	Total	C	N	O	S	0	0
			26843	17063	4667	4956	157		
1	G	3645	Total	C	N	O	S	0	0
			26843	17063	4667	4956	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		

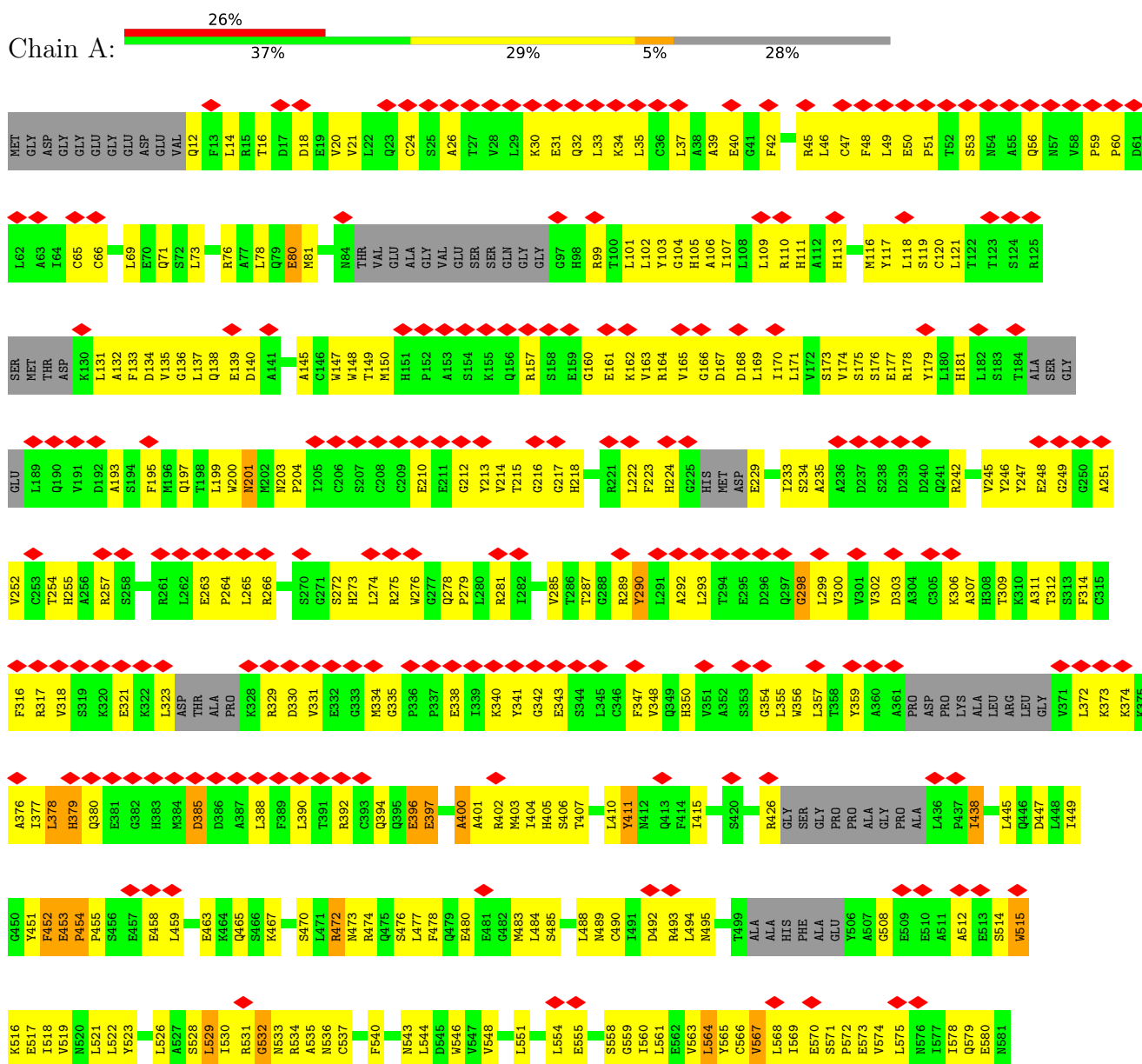
- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

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



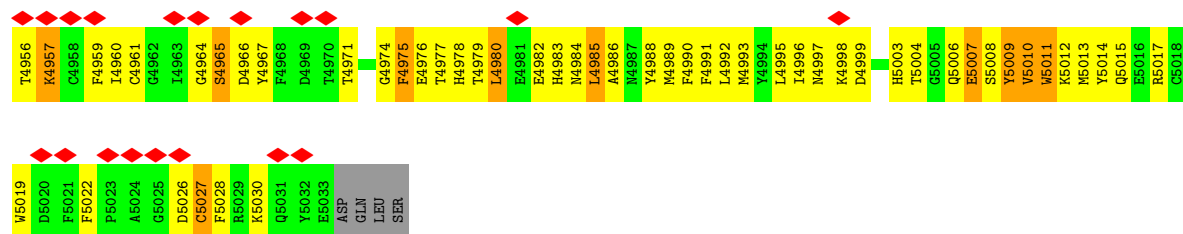




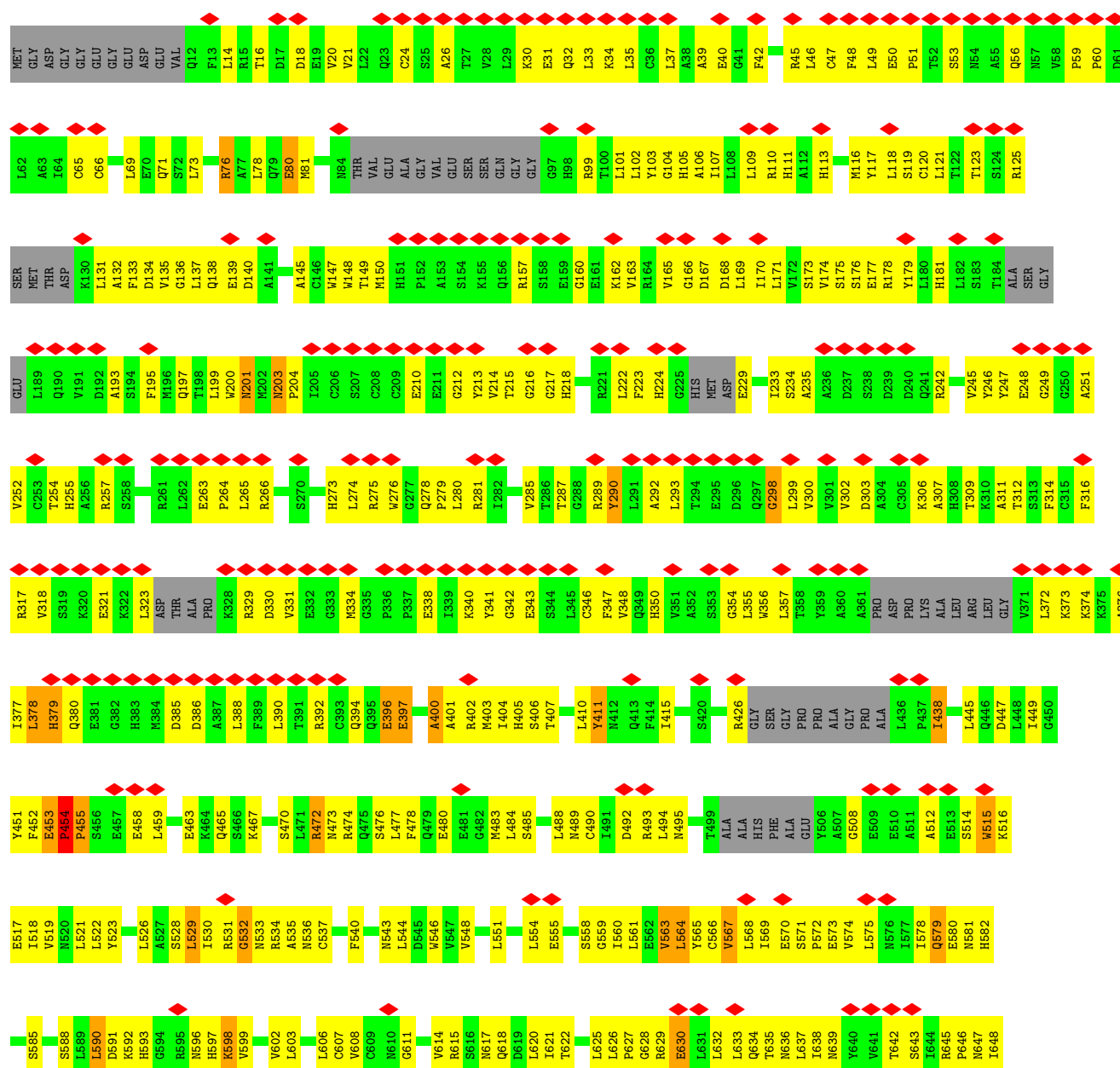


L3985	T3907	T3938	L3770	L3698	ARG	ARG	S3668	THR	E3432	R3368	A3306	LEU	F3996	T3919	K3852	ALA	GLU	GLY	VAL	R3926	Q4005	A4004	L4003	L3924	L4002	K4001	M4000	F3992	G3991	N3914	D3843	L3844	L3942	V3989	V3989	V3989	G3987	V3987	L3916	L3916	M3778	E3777	A3776	R3775	S3784	Q3781	R3849	F3849	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	L3944	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• Molecule 1: Ryanodine receptor 1



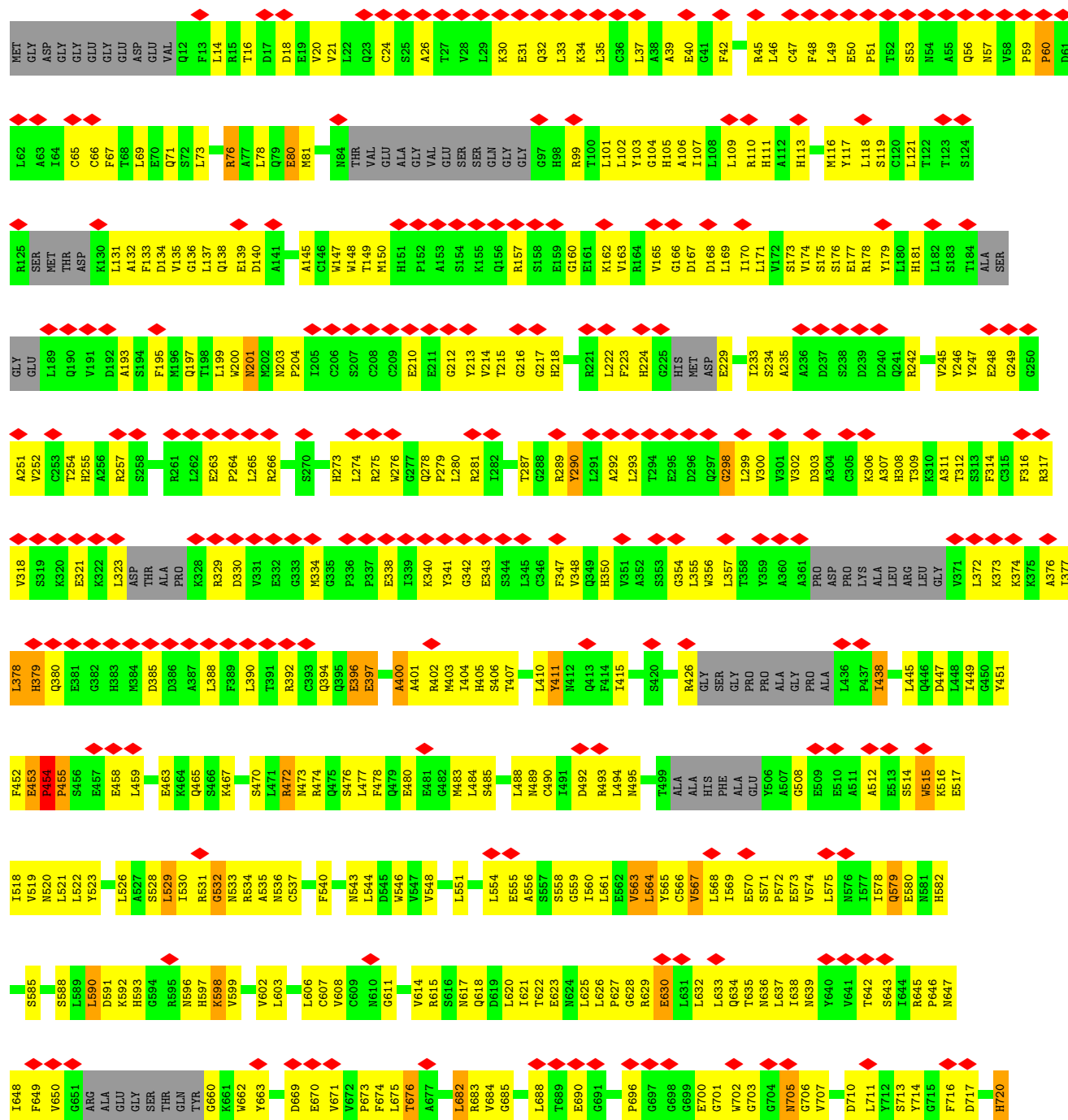




E3184	K3185	L3186	L3187	P3188	A3195	R3196	L3197	A3198	A3199	A3200	MET	PRO	VAL	A3204	F3205	L3206	E3207	P3208	Q3209	L3210	N3211	N3214	A3215	C3216	S3217	VAL	TYR	THR	THR	THR	LYS	SER	PRO	ARG	GLU	ARG	ALA	ILE	GLY	PRO	ASN	SER	VAL	GLU	GLU	GLU	MET	CYS	PRO	ASP	ILE	PRO	VAL	LEU	ASP	ARG	LEU				
S3116	GLN	ALA	ARG	THR	GLN	VAL	VAL	VAL	GLY	GLN	ASN	THR	TYR	T3132	T3133	L3137	P3138	V3139	L3140	H3146	I3147	Q3151	F3152	GLY	ASP	ASP	VAL	VAL	ILE	L3158	D3159	D3160	V3161	Q3162	V3163	S3164	C3165	Y3166	R3167	T3168	L3169	C3170	S3171	I3172	Y3173	S3174	E3175	K3176	G3177	T3178	LYS	ASN	THR	TYR	V3183						
R3053	V3054	S3055	L3056	F3057	D3060	A3061	P3062	ALA	VAL	VAL	VAL	CYS	L3068	H3069	I3070	L3071	A3072	R3073	S3074	L3075	D3076	A3077	R3078	T3079	V3080	M3081	K3082	S3083	G3084	P3085	E3086	L3087	A3090	GLY	LEU	ARG	ARG	F3095	F3096	E3097	S3098	A3099	S3100	L3103	E3104	K3105	L3106	V3107	E3108	N3109	L3110	R3111	L3112	G3113	K3114	V3115					
G2933	G2934	Y2935	A2936	V2937	T2938	R2939	G2940	LEU	LYS	ASP	MET	GLU	LEU	ASP	THR	SER	ASN	HIS	CYS	GLU	LYS	ARG	PHE	ALA	PHE	GLY	PHE	LEU	GLN	GLN	GLN	ILE	ASP	ASP	GLN	GLU	ALA	VAL	VAL	SER	SER	GLY	ARG	VAL	GLY	VAL	GLU	LYS	SER	PRO	HIS	GLU									
L2813	K2814	A2815	M2816	L2817	A2818	W2819	E2820	W2821	T2822	L2823	E2824	K2825	A2826	R2827	E2828	G2829	K2830	GLU	GLU	ARG	THR	GLU	LYS	LYS	THR	ARG	LYS	LYS	THR	ARG	LYS	ILE	GLN	THR	ALA	GLN	THR	Y2849	D2850	P2851	R2852	E2853	G2854	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	L2862	S2863	G2864	V2865	L2866	L2867	R2868	R2869	E2870	L2871	Q2872
S2753	F2754	I2755	N2756	K2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	F2768	D2769	K2770	I2771	Q2772	N2773	W2774	W2775	S2776	Y2777	G2778	E2779	N2780	V2781	D2782	E2783	E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	R2792	P2793	Y2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	L2804	Y2805	R2806	W2807	L2808	K2810	E2811	S2812			
D2692	Q2693	E2694	L2695	Y2696	A2699	P2700	P2701	C2702	L2703	C2704	A2705	L2706	A2707	G2708	L2709	L2710	P2711	P2712	ASP	TYR	VAL	ASP	ALA	SER	TYR	SER	LYS	LEU	ALA	GLU	LYS	ASN	PHE	GLY	VAL	ASP	ALA	GLU	GLY	F2735	D2736	P2737	R2738	P2739	V2740	E2741	T2742	L2743	N2744	W2745	L2746	L2747	L2748	E2749	K2750	L2751	D2752				
Y2553	L2554	C2555	L2556	A2557	V2558	L2559	P2560	L2561	L2562	THR	LYS	CYS	ALA	P2567	L2568	F2569	A2570	G2571	T2572	E2573	R2574	C2575	A2576	I2577	Q2578	Y2579	R2580	L2581	L2582	Y2583	ASP	ASN	PHE	GLY	VAL	ASP	ALA	GLU	VAL	ASP	ALA	GLU	LEU	CYS	ARG	TYR	ILE	R2615	P2616	L2619	Q2620	H2621	L2622	L2623	R2624	R2625	L2626				
PRO	LYS	MET	SER	ALA	SER	F2494	V2495	P2496	D2497	H2498	K2499	A2500	S2501	M2502	W2503	L2504	D2507	R2508	W2509	Y2510	GLY	ILE	GLU	Q2514	Q2515	D2516	F2517	L2518	L2519	H2520	Y2521	L2522	ASP	V2524	P2528	D2529	M2530	R2531	A2532	L2536	ASP	THR	ALA	THR	PHE	SER	THR	T2544	E2545	M2546	A2547	L2548	A2549	L2550	N2551	R2552					
S2424	F2425	F2426	A2427	A2428	L2429	T2430	D2431	L2432	L2433	C2434	R2435	C2436	A2437	PRO	GLU	MET	HIS	LEU	ILE	GLN	ALA	GLY	LYS	GLY	E2449	A2450	L2451	R2452	L2453	R2454	A2455	L2456	L2457	R2458	S2459	L2460	VAL	PRO	L2463	D2464	L2465	L2466	V2467	G2468	L2474	Q2475	T2476	PRO	THR	LEU	GLY	LYS	ASP	GLY	LEU	VAL	GLN				

V4055	V3986	R3909	T3772	L3703	ALA	W3571	ILE	F3435	V3373	D3310	ALA	RET
E4056	D3987	T3910	R3773	H3704	VAL	Q3572	VAL	ARG	A3374	H3311	ALA	ALA
V4057	A3988	T3914	G3774	F3705	VAL	RET	ALA	W3437	E3375	L3312	ILE	ASP
L4058	V3989	T3915	A3775	E3712	ALA	ALA	CYS	V3438	E3376	L3313	GLY	ILE
L4059	G3991	T3916	A3776	K3713	PHE	TYR	ARG	G3439	E3377	SER	GLY	GLY
K4060	F3992	T3917	K3778	S3714	ARG	ARG	ARG	E3440	Q3378	LEU	LEU	LEU
F4061	L3993	C3918	V3779	K3715	MET	GLY	THR	Y3444	L3379	G3317	ALA	ALA
L4062	H3994	T3919	L3780	L3716	THR	LEU	PRO	W3445	R3380	N3318	GLU	GLU
V3995	V3995	V3920	Q3781	D3717	PRO	PRO	GLY	S3446	L3381	I3319	GLY	GLY
F3996	F3996	D3921	E3718	E3718	TYR	GLY	ARG	K3447	E3382	L3320	ALA	ALA
M4000	M4000	S3784	D3719	D3719	ASN	GLY	ARG	S3448	A3383	R3321	ARG	ARG
M4001	L3923	A3785	A3724	A3724	LEU	LEU	GLU	S3448	K3384	LEU	TYR	TYR
L4002	L3924	C3786	D3727	D3727	LEU	ASP	GLU	H3449	A3387	V3324	THR	THR
L4003	R3925	E3789	H3729	H3729	ASP	ASP	GLU	N3450	E3388	N3325	GLU	GLU
A4004	L3926	V3794	A3730	A3730	ASP	ASP	GLU	E3465	E3389	N3326	PRO	PRO
Q4005	Q3927	T3797	K3731	K3731	GLY	PRO	GLY	N3457	G3390	L3327	HIS	HIS
S4007	I3930	L3798	C3732	C3732	ILE	ILE	THR	N3465	E3391	I3329	ILE	ILE
S4008	F3933	G3801	HIS	HIS	VAL	VAL	ASP	W3594	V3394	E3330	ILE	ILE
Q4009	V3934	L3804	LEU	LEU	ARG	ARG	GLN	R3395	A3392	E3331	T3273	T3273
E4011	W3935	N3805	GLU	GLU	ARG	ARG	ASP	D3396	T3275	L3274	L3274	L3274
L4012	Y3937	L3806	GLY	GLY	VAL	VAL	ILE	D3397	A3332	A3332	P3275	P3275
L4013	S3938	N3807	GLY	GLY	GLN	GLN	MET	E3397	T3333	T3333	K3276	K3276
L4017	G3939	G3808	ASN	ASN	GLY	GLY	LEU	PHE	W3334	W3334	L3277	L3277
D4018	K3940	N3809	GLY	GLY	VAL	VAL	ASP	SER	M3335	M3335	K3278	K3278
L4019	D3941	A3810	GLY	GLY	SER	SER	LYS	VAL	K3336	K3336	S3279	S3279
Q4020	E3944	E3811	ALA	ALA	VAL	VAL	LYS	LEU	R3337	R3337	Y3280	Y3280
K4021	K3953	S3812	GLY	GLY	THR	THR	LYS	VAL	L3338	L3338	L3281	L3281
M4022	V3956	Q3813	GLY	GLY	HIS	HIS	LYS	C3402	A3339	A3339	P3282	P3282
V4023	S3957	Q3814	GLY	GLY	LEU	LEU	LYS	D3404	R3403	R3403	PHE	PHE
V4024	E3979	K3815	GLY	GLY	LEU	LEU	GLN	L3405	D3404	D3404	ALA	ALA
M4026	A3958	M3816	VAL	VAL	GLU	GLU	LYS	Y3406	L3405	L3405	ALA	ALA
L4027	K3959	L3817	D3818	D3818	THR	THR	GLY	A3407	L3406	L3406	PRO	PRO
L4028	Q3960	L3819	L3819	L3819	HIS	HIS	GLY	G3482	L3408	L3408	PRO	PRO
L4031	V3961	F3820	F3820	F3820	GLY	GLY	THR	D3483	Y3409	Y3409	ILE	ILE
E4032	F3962	L3821	L3821	L3821	GLY	GLY	ASP	A3484	P3410	P3410	VAL	VAL
G4033	N3963	R3885	R3885	R3885	GLY	GLY	GLU	Q3485	L3411	L3411	PHE	PHE
V4035	L3965	F3887	F3887	F3887	GLY	GLY	GLU	S3486	A3349	A3349	ALA	ALA
V4036	T3966	K3823	K3823	K3823	GLY	GLY	GLY	G3487	L3412	L3412	ALA	ALA
M4037	E3967	V3824	V3824	V3824	GLY	GLY	LYS	G3488	I3413	I3413	R3350	R3350
G4038	Y3968	E3825	E3825	E3825	GLY	GLY	LYS	G3489	R3414	R3414	P3351	P3351
M4039	L3890	V3826	V3826	V3826	GLY	GLY	TRP	D3490	Y3415	Y3415	E3352	E3352
L4040	L3891	F3827	F3827	F3827	GLY	GLY	TRP	Q3491	V3416	V3416	L3353	L3353
E4041	C3892	F3828	F3828	F3828	GLY	GLY	HIS	Q3491	D3417	D3417	L3354	L3354
A4042	E3893	Q3761	Q3761	Q3761	VAL	VAL	LYS	GLY	N3418	N3418	L3296	L3296
M4043	F3899	L3762	L3762	L3762	GLY	GLY	LEU	ARG	N3419	N3419	P3297	P3297
M4044	Q3900	Q3833	Q3833	Q3833	GLY	GLY	LEU	THR	R3420	R3420	A3298	A3298
V4045	Y3902	A3834	A3834	A3834	LYS	LYS	SER	K3495	A3421	A3421	C3299	C3299
D4046	T3905	L3835	L3835	L3835	K3694	K3694	GLN	K3496	H3422	H3422	A3300	A3300
M4047	Q3906	Q3766	Q3766	Q3766	L3698	L3698	ARG	K3497	W3423	W3423	P3301	P3301
L4048	R3907	S3768	S3768	S3768	L3701	L3701	ARG	D3501	L3424	L3424	P3302	P3302
V4049	T3907	R3769	R3769	R3769	V3702	V3702	ARG	V3502	THR	THR	P3303	P3303
E4050	G3908	H3771	H3771	H3771	G3565	G3565	ARG	R3503	GLU	GLU	C3304	C3304
					S3566	S3566	GLN	V3504	P3427	P3427	A3306	A3306
					P3567	P3567	GLN	VAL	N3429	N3429	LEU	LEU
					S3569	S3569	THR	THR	A3429	A3429	ARG	ARG
					L3569	L3569	SER	SER	N3430	N3430	ARG	ARG
					R3570	R3570	LEU	LEU	A3431	A3431	R3367	R3367
									E3432	E3432	R3368	R3368
									E3433	E3433	A3369	A3369
									L3434	L3434		





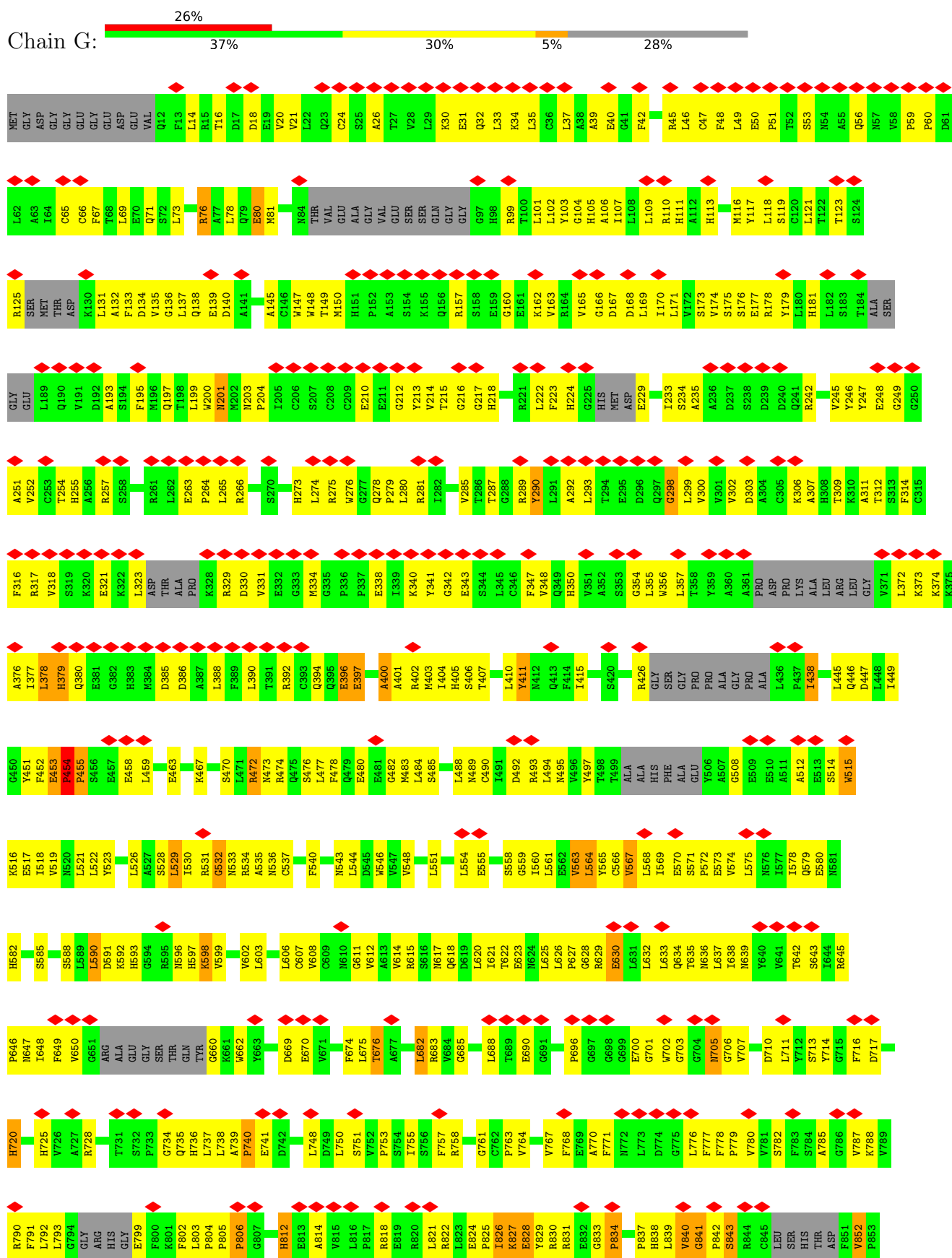






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F4061	GLU	T3919	F3993	C3918	K3852	E3777	S3714	ARG	K3516	Y3444	L3379	LEU	◆
F4062	GLU	V3920	H3994	T3919	ALA	V3778	K3715	THR	K3517	W3445	R3380	G3317	◆
D4063	GLU	D3921	V3995	V3920	GLU	V3779	L3780	PRO	L3518	S3446	L3381	N3318	◆
M4064	GLY	Q3781	Q3716	Q3781	GLY	Q3716	D3717	LEU	P3519	S3447	E3362	I3319	◆
PHE	GLY	S3784	E3718	S3784	GLY	E3718	D3719	TYR	L3520	A3448	K3383	L3320	◆
L4071	GLY	C3785	D3719	C3785	GLY	D3719	A3724	LEU	G3521	H3449	K3384	R3321	◆
L4072	GLY	C3786	A3724	C3786	GLY	A3724	D3727	PHE	L3522	N3450	A3387	V3324	◆
L4073	GLY	E3789	D3727	E3789	GLY	D3727	I3728	ASP	N3523	E3455	E3388	N3325	◆
L4074	GLY	R3793	I3728	R3793	GLY	I3728	M3729	ASP	C3525	E3456	E3389	N3326	◆
L4075	GLY	V3794	A3730	V3794	GLY	A3730	K3731	PRO	A3526	G3390	G3390	L3327	◆
L4076	GLY	T3797	K3731	T3797	GLY	K3731	S3732	LYS	P3527	N3457	E3391	G3328	◆
L4077	GLY	L3798	C3733	L3798	GLY	C3733	S3732	ILE	THR	N3465	V3394	I3329	◆
L4078	GLY	T3804	HIS	T3804	GLY	HIS	S3732	VAL	ASP	R3395	D3330	I3330	◆
L4079	GLY	N3806	LEU	N3806	GLY	LEU	S3732	ARG	GLN	F3469	E3331	E3331	◆
L4080	GLY	N3807	GLU	N3807	GLY	GLU	S3732	VAL	LEU	L3470	A3332	A3332	◆
L4081	GLY	C3807	GLY	C3807	GLY	GLY	S3732	GLN	MET	THR	E3397	T3333	◆
L4082	GLY	G3808	GLY	G3808	GLY	GLY	S3732	VAL	LEU	ALA	PHE	W3334	◆
L4083	GLY	N3809	GLY	N3809	GLY	GLY	S3732	SER	LEU	ASP	SER	N3335	◆
L4084	GLY	A3810	GLY	A3810	GLY	GLY	S3732	ALA	ALA	SER	VAL	G3335	◆
L4085	GLY	E3811	GLY	E3811	GLY	GLY	S3732	VAL	THR	LYS	LEU	I3338	◆
L4086	GLY	V3812	GLY	V3812	GLY	GLY	S3732	VAL	LYS	SER	LEU	A3339	◆
L4087	GLY	Q3813	ALA	Q3813	GLY	ALA	S3732	THR	LYS	C3402	R3403	VAL	◆
L4088	GLY	Q3814	GLU	Q3814	GLY	GLU	S3732	THR	LYS	D3404	PHE	PHE	◆
L4089	GLY	N3815	GLU	N3815	GLY	GLU	S3732	GLU	LYS	L3405	ALA	ALA	◆
L4090	GLY	K3816	GLU	K3816	GLY	GLU	S3732	GLN	THR	A3407	GLN	GLN	◆
L4091	GLY	T3817	GLU	T3817	GLY	GLU	S3732	THR	THR	A3408	PRO	PRO	◆
L4092	GLY	D3818	VAL	D3818	GLY	VAL	S3732	THR	THR	L3409	ILE	ILE	◆
L4093	GLY	V3819	E3750	V3819	GLY	E3750	S3751	HIS	THR	V3346	V3346	V3346	◆
L4094	GLY	K3820	V3751	K3820	GLY	V3751	S3752	ASP	ASP	S3347	S3347	S3347	◆
L4095	GLY	L3821	S3752	L3821	GLY	S3752	S3753	THR	GLU	R3348	R3348	R3348	◆
L4096	GLY	F3822	F3753	F3822	GLY	F3753	S3754	GLY	GLU	L3412	L3412	L3412	◆
L4097	GLY	K3823	E3754	K3823	GLY	E3754	S3755	SER	GLU	A3499	A3499	A3499	◆
L4098	GLY	E3824	K3756	E3824	GLY	K3756	S3756	LYS	R3550	R3414	R3414	R3414	◆
L4099	GLY	E3825	K3757	E3825	GLY	K3757	S3757	LYS	E3551	Y3415	Y3415	Y3415	◆
L4100	GLY	L3890	M3758	L3890	GLY	M3758	S3758	ALA	L3552	V3416	V3416	V3416	◆
L4101	GLY	C3892	F3828	C3892	GLY	F3828	S3759	VAL	L3553	D3417	D3417	D3417	◆
L4102	GLY	E3893	F3829	E3893	GLY	F3829	K3760	TRP	THR	Q3491	Q3491	Q3491	◆
L4103	GLY	F3899	T3832	F3899	GLY	T3832	Q3761	LYS	Q3554	GLU	GLU	GLU	◆
L4104	GLY	Q3900	Q3833	Q3900	GLY	Q3833	R3762	LEU	N3555	ARG	ARG	ARG	◆
L4105	GLY	R3901	A3834	R3901	GLY	A3834	L3763	VAL	N3556	T3494	T3494	T3494	◆
L4106	GLY	Y3902	L3835	Y3902	GLY	L3835	L3764	GLY	L3557	K3495	K3495	K3495	◆
L4107	GLY	T3905	N3836	T3905	GLY	N3836	S3765	LYS	H3558	K3496	K3496	K3496	◆
L4108	GLY	Q3906	Q3837	Q3906	GLY	Q3837	Q3766	SER	L3559	K3497	K3497	K3497	◆
L4109	GLY	T3907	C3838	T3907	GLY	C3838	Q3767	ARG	Q3560	D3501	D3501	D3501	◆
L4110	GLY	R3908	S3840	R3908	GLY	S3840	S3768	ALA	K3561	R3502	R3502	R3502	◆
L4111	GLY	N3909	V3841	N3909	GLY	V3841	R3769	ARG	G3562	Y3503	Y3503	Y3503	◆
L4112	GLY	T3910	L3842	T3910	GLY	L3842	H3770	VAL	VAL	VAL	VAL	VAL	◆
L4113	GLY	N3914	D3843	N3914	GLY	D3843	R3771	ALA	G3563	VAL	VAL	VAL	◆
L4114	GLY	I3915	L3844	I3915	GLY	L3844	R3772	ALA	S3566	GLN	GLN	GLN	◆
L4115	GLY	A3988	A3988	A3988	GLY	A3988	R3773	LEU	P3567	THR	THR	THR	◆
L4116	GLY	A3988	A3988	A3988	GLY	A3988	G3774	SER	S3568	N3429	N3429	N3429	◆
L4117	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3569	A3431	A3431	A3431	◆
L4118	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3570	A3432	A3432	A3432	◆
L4119	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3571	ILE	ILE	ILE	◆
L4120	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	VAL	VAL	VAL	◆
L4121	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4122	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4123	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4124	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4125	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4126	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4127	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4128	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4129	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆
L4130	GLY	A3988	A3988	A3988	GLY	A3988	G3774	LEU	S3572	ALA	ALA	ALA	◆

- Molecule 1: Ryanodine receptor 1





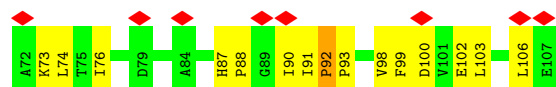
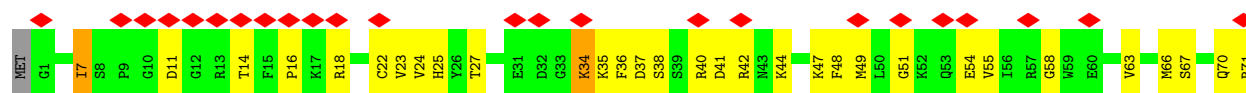


K3367	R3368	A3369	G3370	K3371	V3372	V3373	A3374	E3375	E3376	E3377	Q3378	L3379	L3380	L3381	E3382	A3383	A3387	E3388	E3389	G3390	E3391	V3394	K3395	A3396	E3397	PHE	SER	VAL	C3402	R3403	D3404	L3405	Y3406	A3407	L3408	Y3409	P3410	L3411	L3412	L3413	R3414	Y3415	V3416	D3417	N3418	N3419	R3420	A3421	H3422	W3423	L3424	THR	GLU	P3427	N3428	A3429				
A3306	V3307	T3308	S3309	D3310	H3311	L3312	N3313	SER	LEU	ALA	GLU	G3317	N3318	L3319	L3320	R3321	I3322	V3324	N3325	N3326	L3327	G3328	I3329	D3330	E3331	A3332	T3333	W3334	R3337	L3338	A3339	VAL	PHE	ALA	GLN	PRO	ILE	V3346	R3347	R3348	A3349	R3350	P3351	L3353	L3354	H3355	D3417	S3356	H3357	P3358	L3359	P3360	T3361	L3362	G3363	ARG	ARG			
LEU	ASP	ARG	LEU	MET	ALA	ASP	ILE	GLY	GLY	LEU	GLU	SER	GLY	ALA	THR	GLU	PRO	HIS	VAL	ILE	GLU	ILE	T3273	L3274	P3275	W3276	L3277	G3278	S3279	Y3280	L3281	P3282	R3283	W3284	W3285	E3286	R3287	G3288	P3289	E3290	ALA	PRO	PRO	P3294	A3295	L3296	P3297	A3298	G3299	A3300	P3301	P3302	P3303	C3304	T3305					
TYR	V3183	E3184	K3185	L3186	R3187	P3188	A3189	L3190	L3194	A3195	R3196	L3197	A3198	A3199	A3200	MET	PRO	VAL	A3204	F3205	L3206	E3207	G3208	L3209	N3211	A3215	C3216	S3217	VAL	TYR	THR	THR	LYS	SER	PRO	ARG	GLU	ALA	ILE	GLY	LEU	PRO	ASN	VAL	GLU	MET	CYS	ASP	PRO	ILE	VAL									
S3116	GLN	ALA	ARG	THR	GLN	VAL	LYS	VAL	GLY	GLN	ASN	THR	TYR	T3132	T3133	L3137	P3138	V3139	L3140	L3143	H3146	I3147	Q3151	F3152	GLY	ASP	ASP	VAL	ILE	L3158	D3159	D3160	V3161	Q3162	V3163	S3164	C3165	Y3166	R3167	T3168	L3169	C3170	S3171	L3172	Y3173	S3174	L3175	G3176	T3177	T3178	LYS	ASN	THR							
R3053	V3054	S3055	L3056	F3057	G3058	T3059	D3060	A3061	P3062	ALA	VAL	VAL	ASN	CYS	L3068	H3069	T3070	L3071	A3072	R3073	S3074	L3075	D3076	A3077	R3078	T3079	V3080	N3081	K3082	S3083	G3084	P3085	E3086	T3087	A3090	GLY	LEU	ARG	SER	F3095	F3096	E3097	S3098	A3099	L3103	E3104	K3105	M3106	V3107	E3108	N3109	L3110	R3111	L3112	G3113	K3114	V3115			
GLU	GLN	GLU	ILE	PHE	PHE	ALA	LYS	ILE	LEU	LEU	PRO	LEU	ILE	ASN	TYR	PHE	THR	ASN	ILE	GLU	LYS	ARG	PHE	ALA	HIS	LEU	GLU	ALA	TRP	ASP	ILE	GLN	TRP	GLN	LEU	PHE	ILE	ALA	THR	D2850	P2851	R2852	E2853	G2854	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	L2862	S2863	G2864	V2865	T2866	S2868	R2869	E2870	L2871
Q2872	A2873	M2874	A2875	E2876	Q2877	L2878	A2879	E2880	N2881	Y2882	H2883	N2884	T2885	W2886	G2887	R2888	K2889	K2890	K2891	Q2892	E2893	L2894	E2895	A2896	K2897	G2898	G2899	T2901	H2902	P2903	L2904	L2905	V2906	P2907	Y2908	D2909	T2910	L2911	T2912	A2913	K2914	E2915	K2916	A2917	R2918	D2919	R2920	E2921	K2922	Q2924	E2925	L2926	L2927	K2928	F2929	L2930	Q2931			
S2812	L2813	K2814	A2815	M2816	L2817	A2818	W2819	E2820	W2821	T2822	L2823	E2824	K2825	A2826	R2827	E2828	K2829	E2830	GLU	ARG	THR	GLU	LYS	LYS	THR	ARG	LYS	ILE	GLN	THR	ALA	GLN	THR	D2850	P2851	R2852	E2853	G2854	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	L2862	S2863	G2864	V2865	T2866	S2868	R2869	E2870	L2871						
D2752	S2753	F2754	L2755	M2756	K2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	F2768	K2769	K2770	L2771	Q2772	L2773	N2774	W2775	S2776	Y2777	G2778	E2779	W2780	N2781	D2782	E2783	E2784	L2785	K2786	T2787	H2788	P2789	M2790	L2791	T2792	P2793	Y2794	K2795	T2796	F2797	S2798	E2799	K2800	D2801	K2802	E2803	L2804	R2805	R2806	W2807	P2808	L2809	K2810	E2811	
Y2691	D2692	Q2693	E2694	Y2696	A2699	M2700	P2701	C2702	L2703	C2704	A2705	I2706	A2707	G2708	A2709	L2710	P2711	P2712	ASP	TYR	VAL	ASP	ALA	SER	TYR	SER	SER	LYS	ALA	LYS	ALA	THR	VAL	ASP	ALA	GLU	GLY	N2734	F2735	D2736	P2737	R2738	P2739	V2740	E2741	T2742	L2743	N2744	V2745	I2746	I2747	P2748	E2749	K2750	L2751					
R2625	L2626	P2631	L2632	L2633	W2634	GLU	PHE	ALA	W2638	M2639	P2640	L2641	K2642	L2643	L2644	W2645	W2647	E2648	R2650	C2651	K2652	W2653	W2654	C2655	C2656	L2657	P2658	T2659	G2660	TRP	ALA	ASN	PHE	GLY	VAL	T2667	S2668	E2669	E2670	E2671	L2672	H2673	L2674	L2675	R2676	K2677	G2681	W2684	S2685	L2686	ALA	HIS	LYS	LYS						

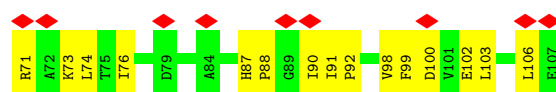
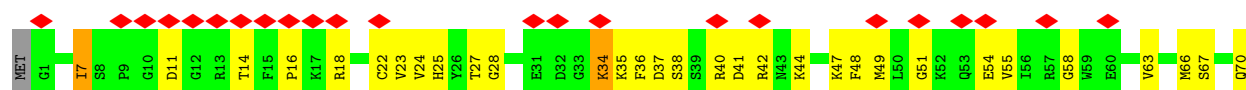




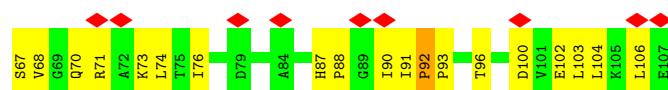
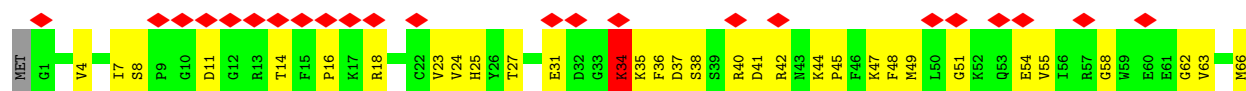
- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



- 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	30000	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	0.243	Depositor
Minimum map value	-0.085	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.012	Depositor
Recommended contour level	0.075	Depositor
Map size ($\text{\AA}$)	482.40002, 482.40002, 482.40002	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	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	1.67	381/27312 (1.4%)	1.36	188/37004 (0.5%)
1	C	1.67	375/27312 (1.4%)	1.36	190/37004 (0.5%)
1	E	1.67	373/27312 (1.4%)	1.36	192/37004 (0.5%)
1	G	1.67	370/27312 (1.4%)	1.35	177/37004 (0.5%)
2	B	1.16	0/851	1.17	2/1146 (0.2%)
2	D	1.16	0/851	1.17	1/1146 (0.1%)
2	F	1.16	0/851	1.17	1/1146 (0.1%)
2	H	1.18	1/851 (0.1%)	1.15	1/1146 (0.1%)
All	All	1.66	1500/112652 (1.3%)	1.35	752/152600 (0.5%)

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	36
1	C	0	35
1	E	0	36
1	G	0	34
All	All	0	141

All (1500) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2926	LEU	CA-C	-18.30	1.30	1.53
1	G	1976	ARG	NE-CZ	11.56	1.45	1.33
1	G	1976	ARG	CD-NE	11.19	1.61	1.46
1	G	454	PRO	CA-C	-10.47	1.46	1.51
1	A	1976	ARG	CD-NE	9.57	1.59	1.46
1	C	3302	PRO	CA-C	9.47	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	3302	PRO	CA-C	9.45	1.60	1.52
1	A	3302	PRO	CA-C	9.42	1.60	1.52
1	C	1976	ARG	CD-NE	9.27	1.59	1.46
1	E	1976	ARG	NE-CZ	9.26	1.43	1.33
1	G	2577	ILE	N-CA	9.11	1.57	1.46
1	A	2577	ILE	N-CA	9.10	1.57	1.46
1	C	2577	ILE	N-CA	9.09	1.57	1.46
1	E	2577	ILE	N-CA	8.97	1.57	1.46
1	C	4231	MET	N-CA	-8.86	1.37	1.46
1	G	4932	ILE	N-CA	-8.82	1.34	1.46
1	G	5007	GLU	CA-C	-8.78	1.40	1.52
1	G	3916	ILE	N-CA	-8.76	1.34	1.46
1	E	4231	MET	N-CA	-8.75	1.37	1.46
1	E	3916	ILE	N-CA	-8.69	1.35	1.46
1	G	4921	PHE	CA-C	-8.68	1.45	1.52
1	C	3916	ILE	N-CA	-8.66	1.35	1.46
1	C	4664	LEU	CA-C	-8.62	1.47	1.52
1	A	3916	ILE	N-CA	-8.60	1.35	1.46
1	A	4231	MET	N-CA	-8.60	1.37	1.46
1	C	3776	ALA	CA-C	-8.59	1.41	1.52
1	G	3164	SER	N-CA	8.58	1.56	1.46
1	A	3776	ALA	CA-C	-8.54	1.41	1.52
1	G	1295	VAL	C-O	-8.54	1.14	1.24
1	E	3776	ALA	CA-C	-8.51	1.41	1.52
1	G	4215	ARG	CD-NE	8.48	1.58	1.46
1	C	1976	ARG	NE-CZ	8.48	1.42	1.33
1	A	2620	GLN	CA-C	8.46	1.64	1.52
1	G	3776	ALA	CA-C	-8.41	1.41	1.52
1	C	2620	GLN	CA-C	8.39	1.64	1.52
1	E	1295	VAL	C-O	-8.39	1.14	1.24
1	C	1295	VAL	C-O	-8.38	1.14	1.24
1	G	2620	GLN	CA-C	8.34	1.64	1.52
1	A	4932	ILE	N-CA	-8.32	1.36	1.46
1	C	4854	VAL	C-O	-8.31	1.14	1.24
1	C	4932	ILE	N-CA	-8.24	1.36	1.46
1	E	4932	ILE	N-CA	-8.20	1.36	1.46
1	E	2850	ASP	CA-C	8.19	1.62	1.52
1	C	4976	GLU	N-CA	8.18	1.56	1.46
1	E	2620	GLN	CA-C	8.17	1.64	1.52
1	A	4976	GLU	N-CA	8.14	1.56	1.46
1	G	3833	GLN	CA-C	-8.13	1.42	1.52
1	G	3019	SER	N-CA	8.12	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4664	LEU	CA-C	-8.10	1.48	1.52
1	E	3770	LEU	CA-C	-8.08	1.41	1.52
1	A	2850	ASP	CA-C	8.07	1.62	1.52
1	E	4854	VAL	C-O	-8.07	1.14	1.24
1	E	4976	GLU	N-CA	8.03	1.56	1.46
1	E	5007	GLU	CA-C	-8.02	1.41	1.52
1	A	2094	LEU	N-CA	8.02	1.56	1.46
1	A	3770	LEU	CA-C	-8.01	1.41	1.52
1	C	1649	ASP	CA-C	-7.99	1.42	1.52
1	E	2094	LEU	N-CA	7.98	1.56	1.46
1	G	1601	MET	CA-CB	-7.96	1.44	1.53
1	A	5007	GLU	CA-C	-7.95	1.41	1.52
1	C	3770	LEU	CA-C	-7.94	1.41	1.52
1	G	4826	ILE	N-CA	-7.94	1.37	1.46
1	G	3779	VAL	N-CA	-7.93	1.36	1.46
1	A	1295	VAL	C-O	-7.93	1.15	1.24
1	A	1601	MET	CA-CB	-7.93	1.44	1.53
1	C	1601	MET	CA-CB	-7.91	1.44	1.53
1	E	1649	ASP	CA-C	-7.90	1.42	1.52
1	G	3096	PHE	N-CA	7.89	1.55	1.46
1	A	3962	PHE	N-CA	-7.88	1.36	1.46
1	C	2094	LEU	N-CA	7.86	1.56	1.46
1	C	3962	PHE	N-CA	-7.83	1.36	1.46
1	A	4664	LEU	CA-C	-7.82	1.48	1.52
1	A	3958	ALA	N-CA	-7.82	1.36	1.46
1	A	4854	VAL	C-O	-7.82	1.14	1.24
1	A	1649	ASP	CA-C	-7.77	1.42	1.52
1	A	3019	SER	N-CA	7.76	1.55	1.46
1	E	3962	PHE	N-CA	-7.76	1.36	1.46
1	C	3019	SER	N-CA	7.75	1.55	1.46
1	C	3096	PHE	N-CA	7.74	1.55	1.46
1	E	3958	ALA	N-CA	-7.72	1.37	1.46
1	A	1976	ARG	NE-CZ	7.71	1.41	1.33
1	G	2094	LEU	N-CA	7.71	1.56	1.46
1	E	3096	PHE	N-CA	7.70	1.55	1.46
1	G	1932	PRO	C-O	-7.69	1.14	1.23
1	C	3958	ALA	N-CA	-7.69	1.37	1.46
1	C	1932	PRO	C-O	-7.68	1.14	1.23
1	A	3096	PHE	N-CA	7.67	1.55	1.46
1	G	1649	ASP	CA-C	-7.65	1.42	1.52
1	E	401	ALA	N-CA	-7.64	1.37	1.46
1	G	401	ALA	N-CA	-7.63	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	401	ALA	N-CA	-7.62	1.37	1.46
1	C	5007	GLU	CA-C	-7.60	1.42	1.52
1	E	4840	THR	CA-C	-7.60	1.43	1.52
1	A	401	ALA	N-CA	-7.59	1.37	1.46
1	A	3835	LEU	CA-C	-7.59	1.43	1.52
1	E	3019	SER	N-CA	7.59	1.55	1.46
1	G	3540	TYR	N-CA	7.58	1.55	1.46
1	G	4942	GLU	CA-C	-7.56	1.46	1.53
1	C	5008	SER	N-CA	-7.54	1.36	1.46
1	E	5008	SER	N-CA	-7.54	1.36	1.46
1	G	2850	ASP	CA-C	7.53	1.61	1.52
1	A	5008	SER	N-CA	-7.53	1.36	1.46
1	E	4826	ILE	N-CA	-7.53	1.37	1.46
1	C	3835	LEU	CA-C	-7.51	1.43	1.52
1	E	3164	SER	N-CA	7.50	1.55	1.46
1	E	4079	ASP	N-CA	7.48	1.55	1.46
1	G	3299	GLY	N-CA	7.48	1.55	1.45
1	A	3164	SER	N-CA	7.47	1.55	1.46
1	G	4216	GLN	CA-C	-7.46	1.43	1.52
1	A	4847	VAL	N-CA	-7.43	1.37	1.46
1	G	3732	SER	CA-C	7.42	1.61	1.53
1	A	1932	PRO	C-O	-7.41	1.15	1.23
1	G	3524	MET	N-CA	7.41	1.55	1.46
1	E	1815	LEU	CA-C	-7.41	1.43	1.52
1	C	4079	ASP	N-CA	7.40	1.55	1.46
1	C	2850	ASP	CA-C	7.40	1.61	1.52
1	A	1815	LEU	CA-C	-7.39	1.43	1.52
1	C	3779	VAL	N-CA	-7.39	1.37	1.46
1	A	4079	ASP	N-CA	7.38	1.55	1.46
1	G	3993	LEU	N-CA	-7.38	1.36	1.46
1	G	4079	ASP	N-CA	7.38	1.55	1.46
1	E	3835	LEU	CA-C	-7.38	1.43	1.52
1	A	4931	ILE	CA-C	-7.37	1.43	1.52
1	G	4576	ILE	N-CA	-7.35	1.36	1.46
1	G	4843	LEU	N-CA	-7.34	1.36	1.46
1	C	2207	VAL	N-CA	-7.33	1.37	1.46
1	C	3164	SER	N-CA	7.33	1.55	1.46
1	G	2207	VAL	N-CA	-7.32	1.37	1.46
1	E	2207	VAL	N-CA	-7.29	1.37	1.46
1	G	3302	PRO	CA-C	7.27	1.58	1.52
1	C	4840	THR	CA-C	-7.26	1.43	1.52
1	A	2207	VAL	N-CA	-7.26	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4576	ILE	N-CA	-7.26	1.37	1.46
1	A	3779	VAL	N-CA	-7.25	1.37	1.46
1	C	4826	ILE	N-CA	-7.24	1.37	1.46
1	E	2529	ASP	N-CA	7.24	1.55	1.46
1	A	4843	LEU	N-CA	-7.24	1.37	1.46
1	G	4986	ALA	C-O	-7.23	1.14	1.24
1	C	4847	VAL	N-CA	-7.22	1.37	1.46
1	G	2902	HIS	CA-C	7.21	1.59	1.52
1	G	868	GLU	N-CA	7.21	1.55	1.46
1	G	4847	VAL	CA-C	-7.20	1.43	1.52
1	C	1784	ALA	N-CA	7.20	1.59	1.46
1	A	868	GLU	N-CA	7.19	1.55	1.46
1	E	1932	PRO	C-O	-7.19	1.15	1.23
1	C	868	GLU	N-CA	7.18	1.55	1.46
1	G	3162	GLN	N-CA	7.17	1.55	1.46
1	G	454	PRO	C-O	-7.17	1.19	1.25
1	C	4843	LEU	N-CA	-7.16	1.37	1.46
1	G	4129	ALA	CA-C	7.16	1.62	1.52
1	C	1815	LEU	CA-C	-7.16	1.43	1.52
1	E	4231	MET	C-O	-7.16	1.16	1.23
1	G	2529	ASP	N-CA	7.14	1.55	1.46
1	A	4826	ILE	N-CA	-7.14	1.38	1.46
1	C	2902	HIS	CA-C	7.14	1.59	1.52
1	E	868	GLU	N-CA	7.13	1.54	1.46
1	A	873	LYS	N-CA	7.13	1.54	1.46
1	G	1815	LEU	CA-C	-7.13	1.43	1.52
1	C	1845	VAL	CA-C	-7.12	1.43	1.52
1	A	2529	ASP	N-CA	7.12	1.55	1.46
1	G	3053	ARG	N-CA	7.12	1.54	1.46
1	A	1845	VAL	CA-C	-7.11	1.43	1.52
1	G	3211	ASN	N-CA	7.10	1.54	1.46
1	C	2529	ASP	N-CA	7.09	1.55	1.46
1	E	2499	LYS	N-CA	7.09	1.54	1.46
1	E	2902	HIS	CA-C	7.09	1.59	1.52
1	E	3211	ASN	N-CA	7.09	1.54	1.46
1	A	3211	ASN	N-CA	7.09	1.54	1.46
1	G	2499	LYS	N-CA	7.08	1.54	1.46
1	E	3779	VAL	N-CA	-7.08	1.37	1.46
1	E	4905	ALA	N-CA	7.07	1.55	1.46
1	E	1845	VAL	CA-C	-7.07	1.43	1.52
1	E	4847	VAL	N-CA	-7.07	1.37	1.46
1	C	3211	ASN	N-CA	7.06	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4975	PHE	N-CA	-7.02	1.37	1.46
1	C	4905	ALA	N-CA	7.02	1.55	1.46
1	A	4905	ALA	N-CA	7.01	1.55	1.46
1	A	4975	PHE	N-CA	-7.00	1.37	1.46
1	E	378	LEU	CA-C	7.00	1.61	1.52
1	G	1845	VAL	CA-C	-7.00	1.43	1.52
1	A	1784	ALA	N-CA	6.99	1.59	1.46
1	E	4843	LEU	N-CA	-6.99	1.37	1.46
1	A	4840	THR	CA-C	-6.98	1.43	1.52
1	C	454	PRO	CA-C	-6.97	1.45	1.52
1	G	4138	ASP	N-CA	-6.97	1.37	1.46
1	C	873	LYS	N-CA	6.97	1.54	1.46
1	C	4216	GLN	CA-C	-6.97	1.43	1.52
1	C	1867	GLU	N-CA	6.96	1.53	1.46
1	A	2902	HIS	CA-C	6.96	1.59	1.52
1	C	2499	LYS	N-CA	6.96	1.54	1.46
1	G	873	LYS	N-CA	6.95	1.54	1.46
1	A	3924	LEU	CA-C	-6.95	1.44	1.52
1	A	4216	GLN	CA-C	-6.95	1.43	1.52
1	E	4931	ILE	CA-C	-6.94	1.43	1.52
1	E	1976	ARG	CD-NE	6.93	1.55	1.46
1	A	2499	LYS	N-CA	6.93	1.54	1.46
1	A	4231	MET	C-O	-6.92	1.16	1.23
1	G	4849	TYR	CA-C	-6.92	1.43	1.52
1	C	2497	ASP	N-CA	6.91	1.54	1.46
1	A	4576	ILE	N-CA	-6.91	1.37	1.46
1	G	3329	ILE	N-CA	6.90	1.54	1.46
1	E	873	LYS	N-CA	6.90	1.54	1.46
1	A	3079	THR	CA-C	6.90	1.62	1.52
1	A	1926	LEU	N-CA	6.89	1.55	1.46
1	E	2120	MET	N-CA	-6.89	1.38	1.46
1	A	2120	MET	N-CA	-6.88	1.38	1.46
1	G	4905	ALA	N-CA	6.87	1.55	1.46
1	C	4975	PHE	N-CA	-6.87	1.37	1.46
1	E	2497	ASP	N-CA	6.87	1.54	1.46
1	G	1783	VAL	CA-C	6.87	1.61	1.52
1	G	4854	VAL	C-O	-6.86	1.15	1.24
1	A	2497	ASP	N-CA	6.86	1.54	1.46
1	A	1867	GLU	N-CA	6.85	1.53	1.46
1	C	3924	LEU	CA-C	-6.85	1.44	1.52
1	A	4129	ALA	CA-C	6.85	1.62	1.52
1	E	3924	LEU	CA-C	-6.85	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1926	LEU	N-CA	6.85	1.55	1.46
1	A	4847	VAL	CA-C	-6.84	1.44	1.52
1	C	1688	HIS	N-CA	-6.84	1.36	1.46
1	G	4847	VAL	N-CA	-6.84	1.38	1.46
1	C	4231	MET	C-O	-6.83	1.16	1.23
1	E	1926	LEU	N-CA	6.83	1.54	1.46
1	A	2676	ARG	N-CA	6.82	1.55	1.46
1	E	1867	GLU	N-CA	6.82	1.53	1.46
1	A	3299	GLY	N-CA	6.82	1.54	1.45
1	E	1688	HIS	N-CA	-6.80	1.36	1.46
1	G	1926	LEU	N-CA	6.80	1.54	1.46
1	C	2120	MET	N-CA	-6.80	1.38	1.46
1	C	3299	GLY	N-CA	6.79	1.54	1.45
1	G	2152	THR	CA-C	-6.77	1.44	1.52
1	G	2120	MET	N-CA	-6.77	1.38	1.46
1	C	4576	ILE	N-CA	-6.76	1.37	1.46
1	E	3079	THR	CA-C	6.76	1.61	1.52
1	G	3958	ALA	N-CA	-6.76	1.38	1.46
1	G	5008	SER	N-CA	-6.76	1.38	1.46
1	E	3829	PHE	N-CA	-6.75	1.38	1.46
1	G	1867	GLU	N-CA	6.75	1.53	1.46
1	E	5010	VAL	N-CA	-6.75	1.38	1.46
1	A	5010	VAL	N-CA	-6.74	1.38	1.46
1	C	4847	VAL	CA-C	-6.73	1.44	1.52
1	G	1866	ILE	CA-C	6.72	1.59	1.52
1	C	3079	THR	CA-C	6.72	1.61	1.52
1	E	4698	LYS	CA-C	-6.72	1.43	1.52
1	G	4837	LEU	N-CA	-6.72	1.37	1.46
1	E	4238	CYS	N-CA	-6.71	1.38	1.46
1	E	3299	GLY	N-CA	6.71	1.54	1.45
1	G	1688	HIS	N-CA	-6.71	1.36	1.45
1	C	4698	LYS	CA-C	-6.71	1.43	1.52
1	A	4238	CYS	N-CA	-6.71	1.38	1.46
1	G	3968	TYR	N-CA	-6.71	1.38	1.46
1	C	4129	ALA	CA-C	6.70	1.61	1.52
1	C	3914	ASN	C-O	-6.70	1.16	1.23
1	E	1601	MET	CA-CB	-6.70	1.44	1.53
1	A	3993	LEU	N-CA	-6.70	1.38	1.46
1	C	3993	LEU	N-CA	-6.70	1.38	1.46
1	G	454	PRO	CA-CB	-6.70	1.47	1.53
1	E	4129	ALA	CA-C	6.69	1.61	1.52
1	E	3914	ASN	C-O	-6.69	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	4231	MET	N-CA	-6.69	1.38	1.46
1	A	3542	LEU	N-CA	6.68	1.54	1.46
1	E	2926	LEU	CA-C	-6.68	1.44	1.52
1	E	4216	GLN	CA-C	-6.68	1.44	1.52
1	G	4846	VAL	CA-C	-6.68	1.44	1.52
1	E	454	PRO	CA-C	-6.68	1.46	1.52
1	E	3542	LEU	N-CA	6.67	1.54	1.46
1	C	3829	PHE	N-CA	-6.67	1.38	1.46
1	E	2676	ARG	N-CA	6.67	1.54	1.46
1	C	4238	CYS	N-CA	-6.67	1.38	1.46
1	C	3883	ASP	N-CA	-6.67	1.37	1.46
1	G	2676	ARG	N-CA	6.67	1.54	1.46
1	C	3542	LEU	N-CA	6.66	1.54	1.46
1	A	3789	GLU	CA-C	-6.65	1.44	1.52
1	C	2676	ARG	N-CA	6.65	1.54	1.46
1	A	4924	VAL	CA-C	-6.65	1.44	1.52
1	E	3993	LEU	N-CA	-6.63	1.38	1.46
1	G	80	GLU	CG-CD	6.63	1.68	1.52
1	A	3162	GLN	N-CA	6.63	1.54	1.46
1	G	2497	ASP	N-CA	6.63	1.54	1.46
1	A	529	LEU	CA-CB	-6.62	1.41	1.53
1	E	3789	GLU	CA-C	-6.62	1.44	1.52
1	A	4790	LEU	N-CA	6.62	1.54	1.46
1	E	4847	VAL	CA-C	-6.61	1.44	1.52
1	C	5010	VAL	N-CA	-6.61	1.38	1.46
1	C	1866	ILE	CA-C	6.61	1.59	1.52
1	A	3883	ASP	N-CA	-6.61	1.37	1.46
1	A	3082	LYS	N-CA	6.61	1.54	1.46
1	A	3829	PHE	N-CA	-6.61	1.38	1.46
1	C	1081	TYR	N-CA	-6.60	1.37	1.46
1	E	529	LEU	CA-CB	-6.59	1.41	1.53
1	G	1021	LEU	N-CA	6.59	1.54	1.46
1	G	3789	GLU	CA-C	-6.59	1.44	1.52
1	G	4851	TYR	CA-C	-6.58	1.44	1.52
1	G	4861	LYS	N-CA	-6.58	1.37	1.46
1	G	397	GLU	CA-C	-6.58	1.44	1.52
1	A	1866	ILE	CA-C	6.58	1.59	1.52
1	C	3732	SER	CA-C	6.57	1.61	1.53
1	E	1866	ILE	CA-C	6.57	1.59	1.52
1	C	529	LEU	CA-CB	-6.56	1.42	1.53
1	E	3052	HIS	N-CA	6.55	1.54	1.46
1	G	3962	PHE	N-CA	-6.54	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	3883	ASP	N-CA	-6.54	1.38	1.46
1	E	4826	ILE	CA-CB	-6.54	1.46	1.54
1	A	1688	HIS	N-CA	-6.54	1.36	1.45
1	E	1081	TYR	N-CA	-6.54	1.37	1.46
1	A	2152	THR	CA-C	-6.53	1.44	1.52
1	C	3052	HIS	N-CA	6.53	1.54	1.46
1	C	2343	GLY	N-CA	-6.53	1.40	1.45
1	G	4796	MET	CA-C	-6.53	1.44	1.52
1	E	4215	ARG	CD-NE	6.53	1.55	1.46
1	G	378	LEU	CA-C	6.52	1.61	1.52
1	G	529	LEU	CA-CB	-6.51	1.42	1.53
1	G	4582	VAL	CA-C	6.51	1.60	1.52
1	E	3162	GLN	N-CA	6.51	1.54	1.46
1	E	1021	LEU	N-CA	6.51	1.54	1.46
1	C	1021	LEU	N-CA	6.50	1.54	1.46
1	A	3052	HIS	N-CA	6.49	1.54	1.46
1	A	4698	LYS	CA-C	-6.49	1.43	1.52
1	E	397	GLU	CA-C	-6.48	1.44	1.52
1	C	379	HIS	N-CA	6.48	1.53	1.46
1	G	3770	LEU	CA-C	-6.48	1.43	1.52
1	E	3418	ASN	N-CA	6.48	1.54	1.46
1	A	3418	ASN	N-CA	6.47	1.54	1.46
1	C	378	LEU	CA-C	6.47	1.61	1.52
1	G	3924	LEU	CA-C	-6.47	1.44	1.52
1	G	4789	PHE	N-CA	-6.47	1.38	1.46
1	A	378	LEU	CA-C	6.46	1.61	1.52
1	G	1081	TYR	N-CA	-6.46	1.37	1.46
1	C	3789	GLU	CA-C	-6.46	1.44	1.52
1	C	4790	LEU	N-CA	6.46	1.54	1.46
1	A	3704	HIS	CA-C	-6.45	1.44	1.52
1	C	1669	LEU	CA-C	-6.45	1.44	1.52
1	G	1669	LEU	CA-C	-6.45	1.44	1.52
1	A	1081	TYR	N-CA	-6.45	1.37	1.46
1	A	3914	ASN	C-O	-6.44	1.16	1.23
1	G	3542	LEU	N-CA	6.44	1.54	1.46
1	C	2675	THR	CA-C	6.42	1.61	1.52
1	E	2152	THR	CA-C	-6.42	1.44	1.52
1	E	1719	HIS	N-CA	-6.42	1.38	1.46
1	G	379	HIS	N-CA	6.42	1.53	1.46
1	G	4061	PHE	CA-C	6.42	1.61	1.52
1	C	1719	HIS	N-CA	-6.42	1.38	1.46
1	C	3419	ASN	CA-C	6.42	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	3082	LYS	N-CA	6.41	1.54	1.46
1	C	1850	VAL	N-CA	-6.41	1.38	1.46
1	C	3298	ALA	CA-C	6.41	1.61	1.52
1	G	1850	VAL	N-CA	-6.41	1.38	1.46
1	E	379	HIS	N-CA	6.41	1.53	1.46
1	A	1021	LEU	N-CA	6.41	1.54	1.46
1	C	3777	GLU	CA-C	-6.41	1.45	1.52
1	A	3298	ALA	CA-C	6.40	1.61	1.52
1	A	5009	TYR	CA-C	-6.40	1.44	1.52
1	E	3298	ALA	CA-C	6.40	1.61	1.52
1	A	1749	PRO	CA-C	6.39	1.56	1.52
1	G	2124	LEU	N-CA	-6.39	1.38	1.46
1	C	2498	HIS	CA-C	6.39	1.60	1.52
1	A	2675	THR	CA-C	6.38	1.61	1.52
1	C	4924	VAL	CA-C	-6.38	1.44	1.52
1	A	1719	HIS	N-CA	-6.38	1.38	1.46
1	E	1850	VAL	N-CA	-6.38	1.38	1.46
1	C	2152	THR	CA-C	-6.37	1.44	1.52
1	E	3780	LEU	N-CA	-6.37	1.38	1.46
1	G	3722	TYR	CA-C	-6.37	1.44	1.52
1	E	4138	ASP	N-CA	-6.37	1.38	1.46
1	C	5009	TYR	CA-C	-6.37	1.44	1.52
1	E	3082	LYS	N-CA	6.36	1.54	1.46
1	G	4698	LYS	CA-C	-6.36	1.44	1.52
1	A	379	HIS	N-CA	6.35	1.53	1.46
1	A	3419	ASN	CA-C	6.34	1.61	1.52
1	G	3075	LEU	N-CA	6.34	1.54	1.46
1	A	1850	VAL	N-CA	-6.34	1.38	1.46
1	C	4138	ASP	N-CA	-6.34	1.38	1.46
1	E	3704	HIS	CA-C	-6.34	1.44	1.52
1	G	1000	ARG	N-CA	6.33	1.54	1.46
1	A	3732	SER	CA-C	6.33	1.60	1.53
1	C	4848	VAL	N-CA	-6.33	1.39	1.46
1	E	4209	GLN	CA-C	-6.33	1.46	1.53
1	E	2675	THR	CA-C	6.33	1.61	1.52
1	E	1669	LEU	CA-C	-6.33	1.44	1.52
1	G	4924	VAL	CA-C	-6.33	1.44	1.52
1	C	380	GLN	N-CA	6.33	1.54	1.46
1	E	4861	LYS	N-CA	-6.33	1.38	1.46
1	E	4918	ILE	C-O	6.33	1.31	1.24
1	E	4582	VAL	CA-C	6.32	1.59	1.52
1	A	1669	LEU	CA-C	-6.32	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	2672	LEU	CA-C	6.32	1.61	1.52
1	E	5009	TYR	CA-C	-6.31	1.44	1.52
1	A	2498	HIS	CA-C	6.31	1.60	1.52
1	G	3888	LEU	N-CA	-6.31	1.38	1.46
1	A	1673	VAL	N-CA	-6.30	1.37	1.46
1	E	4849	TYR	CA-C	-6.30	1.44	1.52
1	G	4975	PHE	N-CA	-6.29	1.38	1.46
1	A	4209	GLN	CA-C	-6.29	1.46	1.53
1	A	4861	LYS	N-CA	-6.29	1.38	1.46
1	A	974	HIS	N-CA	6.29	1.53	1.46
1	C	4861	LYS	N-CA	-6.29	1.38	1.46
1	G	4028	LEU	N-CA	-6.29	1.38	1.46
1	C	3418	ASN	N-CA	6.28	1.53	1.46
1	G	3780	LEU	N-CA	-6.28	1.38	1.46
1	E	2498	HIS	CA-C	6.28	1.60	1.52
1	E	380	GLN	N-CA	6.28	1.54	1.46
1	G	1673	VAL	N-CA	-6.28	1.37	1.46
1	G	4826	ILE	CA-CB	-6.27	1.46	1.54
1	C	2124	LEU	N-CA	-6.27	1.38	1.46
1	E	3419	ASN	CA-C	6.27	1.61	1.52
1	A	455	PRO	CA-CB	6.27	1.62	1.53
1	E	1673	VAL	N-CA	-6.27	1.37	1.46
1	E	4920	PHE	C-O	-6.27	1.16	1.24
1	G	4238	CYS	N-CA	-6.26	1.38	1.46
1	A	608	VAL	CA-C	-6.26	1.44	1.52
1	A	4918	ILE	C-O	6.26	1.31	1.24
1	G	380	GLN	N-CA	6.26	1.54	1.46
1	C	608	VAL	CA-C	-6.26	1.44	1.52
1	C	4215	ARG	CD-NE	6.26	1.55	1.46
1	A	4138	ASP	N-CA	-6.25	1.38	1.46
1	E	1000	ARG	N-CA	6.25	1.54	1.46
1	C	3923	LEU	N-CA	-6.25	1.38	1.46
1	G	3525	CYS	CA-CB	-6.25	1.42	1.53
1	G	4573	ILE	CA-C	-6.24	1.45	1.52
1	A	397	GLU	CA-C	-6.24	1.44	1.52
1	C	4992	LEU	N-CA	-6.24	1.38	1.46
1	C	2672	LEU	CA-C	6.24	1.61	1.52
1	A	380	GLN	N-CA	6.23	1.54	1.46
1	E	4992	LEU	N-CA	-6.23	1.38	1.46
1	G	1719	HIS	N-CA	-6.23	1.38	1.46
1	A	1773	PRO	C-O	-6.22	1.19	1.24
1	A	2124	LEU	N-CA	-6.22	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	854	CYS	CA-C	6.22	1.60	1.52
1	C	4918	ILE	C-O	6.22	1.31	1.24
1	G	4978	HIS	C-O	-6.22	1.16	1.24
2	H	34	LYS	CA-C	-6.22	1.44	1.52
1	C	3704	HIS	CA-C	-6.22	1.45	1.52
1	E	3923	LEU	N-CA	-6.22	1.38	1.46
1	A	3777	GLU	CA-C	-6.22	1.45	1.52
1	C	3780	LEU	N-CA	-6.21	1.38	1.46
1	G	3914	ASN	C-O	-6.21	1.16	1.23
1	C	4209	GLN	CA-C	-6.21	1.46	1.53
1	G	5019	TRP	C-O	-6.21	1.15	1.23
1	E	608	VAL	CA-C	-6.21	1.44	1.52
1	E	3960	GLN	N-CA	-6.20	1.38	1.46
1	C	4582	VAL	CA-C	6.19	1.59	1.52
1	E	3732	SER	CA-C	6.19	1.60	1.53
1	A	379	HIS	CA-C	6.19	1.60	1.52
1	E	1784	ALA	N-CA	6.19	1.58	1.46
1	A	3075	LEU	N-CA	6.19	1.53	1.46
1	A	4582	VAL	CA-C	6.19	1.59	1.52
1	G	3418	ASN	N-CA	6.19	1.53	1.46
1	A	4849	TYR	CA-C	-6.18	1.44	1.52
1	G	2123	LEU	CA-C	-6.18	1.44	1.52
1	C	4849	TYR	CA-C	-6.18	1.44	1.52
1	E	4924	VAL	CA-C	-6.18	1.45	1.52
1	G	4128	PHE	C-O	6.18	1.31	1.24
1	A	4822	THR	CB-CG2	-6.17	1.32	1.52
1	C	397	GLU	CA-C	-6.17	1.44	1.52
1	C	4822	THR	CB-CG2	-6.17	1.32	1.52
1	E	4790	LEU	N-CA	6.17	1.54	1.46
1	C	1000	ARG	N-CA	6.17	1.54	1.46
1	A	2495	VAL	CA-CB	6.17	1.57	1.54
1	A	454	PRO	CA-C	-6.16	1.46	1.52
1	A	3054	VAL	CA-C	6.16	1.60	1.52
1	A	3525	CYS	CA-CB	-6.16	1.42	1.53
1	G	1749	PRO	CA-C	6.16	1.56	1.52
1	E	4848	VAL	N-CA	-6.16	1.39	1.46
1	G	4235	VAL	N-CA	-6.16	1.39	1.46
1	E	3777	GLU	CA-C	-6.15	1.45	1.52
1	C	4826	ILE	CA-CB	-6.15	1.47	1.54
1	C	3054	VAL	CA-C	6.15	1.60	1.52
1	E	980	ALA	N-CA	6.15	1.54	1.46
1	A	3159	ASP	C-O	6.15	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	1623	ARG	CA-C	6.15	1.60	1.52
1	A	3888	LEU	N-CA	-6.14	1.38	1.46
1	E	3797	THR	CA-C	-6.14	1.44	1.52
1	E	3833	GLN	CA-C	-6.14	1.44	1.52
1	G	2695	LEU	C-O	6.14	1.31	1.24
1	A	4215	ARG	CD-NE	6.14	1.54	1.46
1	G	2498	HIS	CA-C	6.14	1.60	1.52
1	A	3960	GLN	N-CA	-6.13	1.38	1.46
1	A	3780	LEU	N-CA	-6.13	1.38	1.46
1	A	3833	GLN	CA-C	-6.13	1.44	1.52
1	G	4942	GLU	N-CA	-6.13	1.39	1.47
1	G	974	HIS	N-CA	6.12	1.53	1.46
1	A	1658	ASP	N-CA	-6.12	1.39	1.46
1	A	3923	LEU	N-CA	-6.12	1.38	1.46
1	C	379	HIS	CA-C	6.12	1.59	1.52
1	C	1623	ARG	CA-C	6.12	1.60	1.52
1	C	3833	GLN	CA-C	-6.12	1.44	1.52
1	E	3525	CYS	CA-CB	-6.12	1.42	1.53
1	G	4883	TYR	CA-C	-6.12	1.45	1.52
1	A	2926	LEU	C-N	-6.11	1.25	1.33
1	A	1000	ARG	N-CA	6.11	1.53	1.46
1	A	3797	THR	CA-C	-6.11	1.45	1.52
1	E	854	CYS	CA-C	6.11	1.60	1.52
1	A	4992	LEU	N-CA	-6.10	1.39	1.46
1	A	4848	VAL	N-CA	-6.10	1.39	1.46
1	C	1673	VAL	N-CA	-6.10	1.37	1.46
1	A	564	LEU	CA-C	-6.10	1.44	1.52
1	E	3054	VAL	CA-C	6.10	1.60	1.52
1	C	3960	GLN	N-CA	-6.09	1.38	1.46
1	G	455	PRO	CA-CB	6.09	1.62	1.53
1	A	4826	ILE	CA-CB	-6.09	1.47	1.54
1	C	2621	HIS	N-CA	6.09	1.53	1.46
1	G	2675	THR	CA-C	6.08	1.60	1.52
1	A	2672	LEU	CA-C	6.08	1.60	1.52
1	G	862	VAL	CA-C	6.08	1.59	1.52
1	E	1658	ASP	N-CA	-6.08	1.39	1.46
1	C	4028	LEU	N-CA	-6.08	1.38	1.46
1	C	4846	VAL	CA-C	-6.08	1.45	1.52
1	E	379	HIS	CA-C	6.08	1.59	1.52
1	A	2621	HIS	N-CA	6.08	1.53	1.46
1	G	3883	ASP	N-CA	-6.08	1.38	1.46
1	E	564	LEU	CA-C	-6.07	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	3484	ALA	N-CA	6.07	1.53	1.46
1	C	3797	THR	CA-C	-6.07	1.45	1.52
1	G	608	VAL	CA-C	-6.07	1.45	1.52
1	A	4128	PHE	C-O	6.06	1.31	1.24
1	C	3075	LEU	N-CA	6.06	1.53	1.46
1	E	3888	LEU	N-CA	-6.06	1.38	1.46
1	G	2236	LEU	N-CA	-6.06	1.38	1.46
1	G	2621	HIS	N-CA	6.05	1.53	1.46
1	C	974	HIS	N-CA	6.05	1.53	1.46
1	E	940	GLY	CA-C	6.05	1.57	1.52
1	E	2205	GLU	N-CA	-6.05	1.38	1.46
1	G	940	GLY	CA-C	6.05	1.57	1.51
1	G	1938	GLN	N-CA	-6.05	1.38	1.46
1	G	1623	ARG	CA-C	6.05	1.60	1.52
1	C	4128	PHE	C-O	6.04	1.31	1.24
1	E	4028	LEU	N-CA	-6.04	1.38	1.46
1	C	4957	LYS	N-CA	-6.04	1.38	1.46
1	A	1605	TRP	CA-C	-6.04	1.44	1.52
1	C	3525	CYS	CA-CB	-6.04	1.43	1.53
1	C	1658	ASP	N-CA	-6.04	1.39	1.46
1	E	2124	LEU	N-CA	-6.04	1.39	1.46
1	C	2856	ASN	N-CA	6.04	1.52	1.46
1	E	2672	LEU	CA-C	6.04	1.60	1.52
1	C	4931	ILE	CA-C	-6.03	1.44	1.52
1	E	974	HIS	N-CA	6.03	1.53	1.46
1	A	854	CYS	CA-C	6.03	1.60	1.52
1	C	940	GLY	N-CA	6.03	1.50	1.44
1	E	3167	ARG	N-CA	6.03	1.54	1.46
1	C	564	LEU	CA-C	-6.02	1.45	1.52
1	G	854	CYS	CA-C	6.02	1.60	1.52
1	A	3167	ARG	N-CA	6.02	1.54	1.46
1	C	455	PRO	CA-CB	6.02	1.62	1.53
1	E	2642	LYS	N-CA	6.02	1.54	1.46
1	G	3923	LEU	N-CA	-6.02	1.38	1.46
1	G	2421	ALA	N-CA	6.01	1.53	1.46
1	A	2295	LEU	N-CA	-6.01	1.38	1.46
1	A	2642	LYS	N-CA	6.01	1.54	1.46
1	C	980	ALA	N-CA	6.01	1.53	1.46
1	E	532	GLY	C-O	-6.00	1.18	1.24
1	E	3810	ALA	CA-C	-6.00	1.44	1.52
1	A	1623	ARG	CA-C	6.00	1.60	1.52
1	G	379	HIS	CA-C	6.00	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1938	GLN	N-CA	-5.99	1.38	1.46
1	G	2701	PRO	CA-C	5.99	1.60	1.52
1	G	4669	VAL	CA-CB	-5.99	1.46	1.54
1	G	1956	GLU	N-CA	-5.99	1.39	1.46
1	G	2495	VAL	CA-CB	5.99	1.57	1.54
1	G	980	ALA	N-CA	5.99	1.53	1.46
1	C	1605	TRP	CA-C	-5.99	1.44	1.52
1	E	3075	LEU	N-CA	5.99	1.53	1.46
1	C	1773	PRO	C-O	-5.98	1.19	1.24
1	G	3082	LYS	N-CA	5.98	1.53	1.46
1	E	1605	TRP	CA-C	-5.98	1.44	1.52
1	E	1956	GLU	N-CA	-5.98	1.39	1.46
1	A	862	VAL	CA-C	5.97	1.59	1.52
1	C	2236	LEU	N-CA	-5.97	1.38	1.46
1	E	2236	LEU	N-CA	-5.97	1.38	1.46
1	E	2621	HIS	N-CA	5.97	1.53	1.46
1	C	2642	LYS	N-CA	5.97	1.53	1.46
1	A	940	GLY	CA-C	5.97	1.56	1.51
1	C	2205	GLU	N-CA	-5.97	1.38	1.46
1	G	2295	LEU	N-CA	-5.97	1.38	1.46
1	A	4028	LEU	N-CA	-5.96	1.38	1.46
1	E	2295	LEU	N-CA	-5.96	1.38	1.46
1	E	1773	PRO	C-O	-5.96	1.19	1.24
1	C	940	GLY	CA-C	5.96	1.56	1.52
1	G	4630	TYR	CA-C	5.96	1.59	1.52
1	E	1496	TRP	C-O	5.96	1.31	1.23
1	A	1546	THR	C-O	-5.95	1.16	1.23
1	A	2695	LEU	C-O	5.95	1.31	1.24
1	G	4957	LYS	N-CA	-5.95	1.38	1.46
1	C	532	GLY	C-O	-5.95	1.18	1.24
1	E	2856	ASN	N-CA	5.95	1.52	1.46
1	G	3298	ALA	CA-C	5.95	1.61	1.52
1	C	4630	TYR	CA-C	5.94	1.59	1.52
1	G	564	LEU	CA-C	-5.94	1.45	1.52
1	A	3810	ALA	CA-C	-5.94	1.44	1.52
1	C	1938	GLN	N-CA	-5.94	1.38	1.46
1	E	1938	GLN	N-CA	-5.94	1.38	1.46
1	C	3162	GLN	N-CA	5.94	1.53	1.46
1	G	2343	GLY	N-CA	-5.94	1.40	1.45
1	A	2421	ALA	N-CA	5.94	1.53	1.46
1	E	2495	VAL	CA-CB	5.94	1.57	1.54
1	G	2856	ASN	N-CA	5.94	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	3704	HIS	CA-C	-5.93	1.45	1.52
1	C	2295	LEU	N-CA	-5.93	1.38	1.46
1	E	940	GLY	N-CA	5.93	1.50	1.44
1	E	2695	LEU	C-O	5.93	1.30	1.24
1	A	980	ALA	N-CA	5.92	1.53	1.46
1	C	1496	TRP	C-O	5.92	1.31	1.23
1	G	1658	ASP	N-CA	-5.92	1.39	1.46
1	C	5022	PHE	CA-C	-5.92	1.47	1.53
1	C	3888	LEU	N-CA	-5.92	1.38	1.46
1	E	4846	VAL	CA-C	-5.92	1.45	1.52
1	A	1496	TRP	C-O	5.92	1.31	1.23
1	A	1807	LEU	N-CA	-5.92	1.39	1.46
1	E	1749	PRO	CA-C	5.91	1.56	1.52
1	G	4852	THR	N-CA	-5.91	1.38	1.46
1	G	3184	GLU	N-CA	5.91	1.53	1.46
1	C	3159	ASP	C-O	5.91	1.32	1.24
1	G	1605	TRP	CA-C	-5.91	1.44	1.52
1	G	2138	LEU	C-O	-5.91	1.19	1.24
1	C	862	VAL	CA-C	5.91	1.59	1.52
1	C	2695	LEU	C-O	5.91	1.30	1.24
1	C	3810	ALA	CA-C	-5.90	1.44	1.52
1	E	862	VAL	CA-C	5.90	1.59	1.52
1	C	1749	PRO	CA-C	5.90	1.56	1.52
1	E	4918	ILE	N-CA	-5.90	1.39	1.46
1	G	4992	LEU	N-CA	-5.90	1.39	1.46
1	C	3781	GLN	CA-C	-5.89	1.45	1.52
1	G	3077	ALA	N-CA	5.89	1.53	1.46
1	G	1773	PRO	C-O	-5.89	1.19	1.24
1	A	840	VAL	C-O	-5.89	1.15	1.23
1	A	2236	LEU	N-CA	-5.89	1.38	1.46
1	A	2769	ASP	N-CA	5.89	1.53	1.46
1	C	4789	PHE	N-CA	-5.89	1.38	1.46
1	E	3159	ASP	C-O	5.89	1.31	1.24
1	G	3961	VAL	CA-C	-5.88	1.45	1.52
1	A	5022	PHE	CA-C	-5.88	1.47	1.53
1	A	3786	CYS	CA-C	-5.88	1.44	1.52
1	E	3406	TYR	N-CA	5.88	1.53	1.46
1	A	4195	PHE	C-O	-5.88	1.16	1.23
1	A	4957	LYS	N-CA	-5.88	1.38	1.46
1	E	3968	TYR	N-CA	-5.88	1.38	1.46
1	G	2642	LYS	N-CA	5.88	1.53	1.46
1	A	2856	ASN	N-CA	5.87	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4692	PRO	N-CA	-5.87	1.39	1.47
1	E	2769	ASP	N-CA	5.87	1.53	1.46
1	E	3321	ARG	N-CA	5.87	1.53	1.46
1	A	2163	ARG	N-CA	-5.87	1.38	1.46
1	C	2495	VAL	CA-CB	5.86	1.57	1.54
1	E	455	PRO	CA-CB	5.86	1.61	1.53
1	G	4027	LEU	N-CA	-5.86	1.38	1.46
1	C	996	TRP	C-O	5.86	1.30	1.24
1	E	4128	PHE	C-O	5.86	1.30	1.24
1	G	1496	TRP	C-O	5.86	1.31	1.23
1	G	2163	ARG	N-CA	-5.86	1.38	1.46
1	C	1807	LEU	N-CA	-5.86	1.39	1.46
1	C	4195	PHE	C-O	-5.85	1.16	1.23
1	A	1956	GLU	N-CA	-5.85	1.39	1.46
1	A	3702	VAL	N-CA	-5.85	1.39	1.46
1	A	4677	LEU	N-CA	-5.85	1.39	1.46
1	G	3786	CYS	CA-C	-5.85	1.44	1.52
1	A	3968	TYR	N-CA	-5.85	1.38	1.46
1	C	4733	GLY	C-O	-5.85	1.17	1.23
1	A	4027	LEU	N-CA	-5.85	1.38	1.46
1	G	2113	SER	CA-C	-5.85	1.45	1.52
1	C	3406	TYR	N-CA	5.84	1.53	1.46
1	G	564	LEU	N-CA	-5.84	1.39	1.46
1	G	3988	ALA	CA-C	-5.84	1.45	1.52
1	G	3036	LYS	C-O	5.84	1.30	1.24
1	A	3961	VAL	CA-C	-5.84	1.45	1.52
1	A	2656	CYS	N-CA	5.84	1.53	1.46
1	G	3661	TRP	CB-CG	5.84	1.68	1.50
1	A	2205	GLU	N-CA	-5.84	1.39	1.46
1	C	3167	ARG	N-CA	5.84	1.53	1.46
1	G	532	GLY	C-O	-5.83	1.18	1.24
1	E	3961	VAL	CA-C	-5.83	1.45	1.52
1	A	564	LEU	N-CA	-5.83	1.39	1.46
1	E	4789	PHE	N-CA	-5.83	1.39	1.46
1	G	3074	SER	CA-C	5.83	1.60	1.52
1	C	2851	PRO	N-CA	5.83	1.53	1.47
1	C	4692	PRO	N-CA	-5.82	1.39	1.47
1	E	3702	VAL	N-CA	-5.82	1.39	1.46
1	A	4630	TYR	CA-C	5.82	1.59	1.52
1	G	3834	ALA	N-CA	-5.82	1.39	1.46
1	G	2115	GLU	N-CA	-5.82	1.39	1.46
1	G	2205	GLU	N-CA	-5.82	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	2692	ASP	N-CA	5.82	1.53	1.46
1	A	3781	GLN	N-CA	-5.81	1.39	1.46
1	E	1807	LEU	N-CA	-5.81	1.39	1.46
1	C	4920	PHE	C-O	-5.81	1.16	1.24
1	E	2656	CYS	N-CA	5.81	1.53	1.46
1	A	4920	PHE	C-O	-5.81	1.16	1.24
1	C	3053	ARG	C-O	5.81	1.30	1.24
1	G	2769	ASP	N-CA	5.81	1.53	1.46
1	G	2656	CYS	N-CA	5.81	1.53	1.46
1	G	4174	PHE	N-CA	-5.81	1.38	1.46
1	C	2653	LYS	CA-C	5.80	1.60	1.52
1	C	2769	ASP	N-CA	5.80	1.53	1.46
1	A	741	GLU	CG-CD	5.80	1.66	1.52
1	C	564	LEU	N-CA	-5.80	1.39	1.46
1	E	2116	LEU	C-N	-5.80	1.26	1.33
1	E	3823	LYS	CA-C	-5.80	1.44	1.52
1	E	201	ASN	C-O	-5.79	1.16	1.23
1	C	1956	GLU	N-CA	-5.79	1.39	1.46
1	A	4789	PHE	N-CA	-5.79	1.39	1.46
1	C	2163	ARG	N-CA	-5.79	1.38	1.46
1	C	3968	TYR	N-CA	-5.79	1.38	1.46
1	A	3818	ASP	CA-C	-5.79	1.45	1.52
1	E	3818	ASP	CA-C	-5.79	1.45	1.52
1	E	3781	GLN	N-CA	-5.78	1.39	1.46
1	G	1931	LEU	N-CA	-5.78	1.40	1.45
1	A	4783	ILE	N-CA	-5.78	1.39	1.46
1	C	4669	VAL	CA-CB	-5.78	1.46	1.54
1	G	4025	VAL	N-CA	-5.78	1.39	1.46
1	G	3553	LEU	N-CA	5.78	1.53	1.46
1	A	2653	LYS	CA-C	5.77	1.60	1.52
1	E	4630	TYR	CA-C	5.77	1.59	1.52
1	G	201	ASN	C-O	-5.77	1.16	1.23
1	G	3098	SER	N-CA	5.77	1.53	1.46
1	G	2182	ILE	N-CA	-5.77	1.39	1.46
1	G	4822	THR	C-O	-5.77	1.16	1.24
1	C	3541	ALA	CA-C	5.77	1.60	1.52
1	E	3053	ARG	C-O	5.77	1.30	1.24
1	E	564	LEU	N-CA	-5.76	1.39	1.46
1	C	2421	ALA	N-CA	5.76	1.53	1.46
1	G	3036	LYS	N-CA	5.76	1.53	1.46
1	A	4692	PRO	N-CA	-5.76	1.40	1.47
1	C	2926	LEU	CA-C	-5.75	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	3350	ARG	N-CA	5.75	1.52	1.46
1	C	4027	LEU	N-CA	-5.75	1.39	1.46
1	E	4957	LYS	N-CA	-5.75	1.39	1.46
1	E	2163	ARG	N-CA	-5.75	1.39	1.46
1	A	3321	ARG	N-CA	5.75	1.53	1.46
1	C	2656	CYS	N-CA	5.75	1.53	1.46
1	E	2451	LEU	CA-C	5.75	1.60	1.52
1	A	3053	ARG	C-O	5.75	1.30	1.24
1	C	3111	ARG	CA-C	5.75	1.60	1.52
1	A	4146	LEU	N-CA	-5.75	1.39	1.46
1	C	3786	CYS	CA-C	-5.75	1.44	1.52
1	A	76	ARG	N-CA	-5.74	1.39	1.46
1	C	3702	VAL	N-CA	-5.74	1.39	1.46
1	A	4837	LEU	N-CA	-5.74	1.39	1.46
1	E	1600	LEU	C-O	-5.74	1.16	1.23
1	C	867	LEU	CA-C	5.74	1.60	1.52
1	G	4209	GLN	CA-C	-5.74	1.47	1.53
1	C	4677	LEU	N-CA	-5.74	1.39	1.46
1	E	4669	VAL	CA-CB	-5.74	1.46	1.54
1	G	3823	LYS	CA-C	-5.74	1.44	1.52
1	A	1600	LEU	C-O	-5.73	1.16	1.23
1	C	939	VAL	N-CA	5.73	1.52	1.46
1	E	2343	GLY	N-CA	-5.73	1.40	1.45
1	E	4677	LEU	N-CA	-5.73	1.39	1.46
1	E	3347	SER	N-CA	5.73	1.53	1.46
1	C	3347	SER	N-CA	5.73	1.53	1.46
1	E	3786	CYS	CA-C	-5.72	1.45	1.52
1	A	3823	LYS	CA-C	-5.72	1.44	1.52
1	A	532	GLY	C-O	-5.72	1.18	1.24
1	C	201	ASN	C-O	-5.72	1.16	1.23
1	C	2182	ILE	N-CA	-5.72	1.39	1.46
1	C	2701	PRO	CA-C	5.72	1.60	1.52
1	C	3484	ALA	N-CA	5.72	1.53	1.46
1	G	2851	PRO	N-CA	5.72	1.54	1.47
1	A	3017	PHE	N-CA	5.72	1.53	1.46
1	G	840	VAL	C-O	-5.72	1.16	1.23
1	C	3781	GLN	N-CA	-5.71	1.39	1.46
1	G	1807	LEU	N-CA	-5.71	1.39	1.46
1	G	2673	HIS	N-CA	5.71	1.53	1.46
1	E	2182	ILE	N-CA	-5.71	1.39	1.46
1	E	4733	GLY	C-O	-5.71	1.17	1.23
1	G	3777	GLU	CA-C	-5.71	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	2546	MET	CA-CB	5.71	1.63	1.53
1	A	2851	PRO	N-CA	5.71	1.53	1.47
1	E	840	VAL	C-O	-5.71	1.16	1.23
1	C	3321	ARG	N-CA	5.70	1.53	1.46
1	G	4988	TYR	CA-C	-5.70	1.45	1.52
1	A	3661	TRP	CB-CG	5.70	1.68	1.50
1	G	2788	HIS	CA-C	5.70	1.57	1.52
1	A	4669	VAL	CA-CB	-5.70	1.46	1.54
1	G	939	VAL	N-CA	5.70	1.52	1.46
1	G	396	GLU	N-CA	-5.69	1.39	1.46
1	G	867	LEU	CA-C	5.69	1.60	1.52
1	G	3051	ARG	CA-C	5.69	1.60	1.52
1	A	2113	SER	CA-C	-5.69	1.45	1.52
1	C	3961	VAL	CA-C	-5.69	1.45	1.52
1	G	4142	ASN	N-CA	-5.69	1.39	1.46
1	C	1838	PHE	CA-C	-5.69	1.45	1.52
1	A	2116	LEU	C-N	-5.68	1.27	1.33
1	A	2343	GLY	N-CA	-5.68	1.40	1.45
1	C	3818	ASP	CA-C	-5.68	1.45	1.52
1	E	3159	ASP	CA-C	5.68	1.60	1.52
1	E	4189	ARG	N-CA	-5.68	1.38	1.45
1	A	201	ASN	C-O	-5.68	1.16	1.23
1	E	396	GLU	N-CA	-5.68	1.39	1.46
1	A	4733	GLY	C-O	-5.68	1.17	1.23
1	C	3017	PHE	N-CA	5.68	1.53	1.46
1	C	4146	LEU	N-CA	-5.68	1.39	1.46
1	E	5022	PHE	CA-C	-5.68	1.47	1.53
1	G	4692	PRO	N-CA	-5.68	1.40	1.47
1	C	2692	ASP	N-CA	5.67	1.53	1.46
1	G	3419	ASN	CA-C	5.67	1.60	1.52
1	A	2701	PRO	CA-C	5.67	1.60	1.52
1	E	2546	MET	CA-CB	5.67	1.63	1.53
1	E	4146	LEU	N-CA	-5.67	1.39	1.46
1	E	3017	PHE	N-CA	5.67	1.53	1.46
1	G	1017	ARG	N-CA	5.67	1.53	1.46
1	G	1546	THR	C-O	-5.67	1.16	1.23
1	G	923	GLN	N-CA	5.66	1.53	1.46
1	C	2116	LEU	C-N	-5.66	1.27	1.33
1	G	2546	MET	CA-CB	5.66	1.63	1.53
1	A	1717	SER	CA-C	-5.66	1.45	1.52
1	A	2182	ILE	N-CA	-5.66	1.39	1.46
1	E	4195	PHE	C-O	-5.66	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2788	HIS	CA-C	5.66	1.57	1.52
1	C	2123	LEU	CA-C	-5.66	1.45	1.52
1	A	4918	ILE	N-CA	-5.65	1.39	1.46
1	C	840	VAL	C-O	-5.65	1.16	1.23
1	G	1838	PHE	CA-C	-5.65	1.45	1.52
1	A	4189	ARG	N-CA	-5.65	1.38	1.45
1	C	1600	LEU	C-O	-5.65	1.16	1.23
1	C	4966	ASP	N-CA	-5.65	1.39	1.46
1	E	1546	THR	C-O	-5.65	1.16	1.23
1	E	3111	ARG	CA-C	5.65	1.60	1.52
1	E	4234	PHE	N-CA	-5.65	1.39	1.46
1	A	2098	VAL	N-CA	-5.65	1.39	1.46
1	G	1600	LEU	C-O	-5.65	1.16	1.23
1	G	3565	GLY	N-CA	5.65	1.52	1.45
1	C	4783	ILE	N-CA	-5.64	1.39	1.46
1	C	4918	ILE	N-CA	-5.64	1.39	1.46
1	G	4567	LEU	N-CA	-5.64	1.39	1.46
1	C	4189	ARG	N-CA	-5.64	1.38	1.45
1	G	3960	GLN	N-CA	-5.64	1.39	1.46
1	E	2692	ASP	N-CA	5.64	1.53	1.46
1	A	1846	SER	N-CA	-5.64	1.39	1.46
1	A	4790	LEU	CB-CG	5.64	1.64	1.53
1	A	4846	VAL	CA-C	-5.64	1.46	1.52
1	G	3197	LEU	N-CA	5.63	1.53	1.46
1	E	1811	ALA	N-CA	-5.63	1.39	1.46
1	A	400	ALA	N-CA	-5.63	1.39	1.46
1	E	3098	SER	N-CA	5.63	1.53	1.46
1	G	1711	TYR	N-CA	-5.63	1.39	1.46
1	A	2451	LEU	CA-C	5.63	1.60	1.52
1	E	2788	HIS	CA-C	5.63	1.57	1.52
1	G	4234	PHE	N-CA	-5.63	1.39	1.46
1	C	2451	LEU	CA-C	5.63	1.60	1.52
1	G	2451	LEU	CA-C	5.63	1.60	1.52
1	G	4147	LEU	CA-C	-5.63	1.45	1.52
1	A	396	GLU	N-CA	-5.62	1.39	1.46
1	E	4783	ILE	N-CA	-5.62	1.39	1.46
1	C	1846	SER	N-CA	-5.62	1.39	1.46
1	E	2113	SER	CA-C	-5.62	1.45	1.52
1	G	2204	HIS	N-CA	-5.62	1.39	1.46
1	E	400	ALA	N-CA	-5.62	1.39	1.46
1	E	2701	PRO	CA-C	5.62	1.60	1.52
1	C	4573	ILE	CA-C	-5.62	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4879	MET	N-CA	-5.62	1.39	1.46
1	G	1835	GLU	N-CA	-5.62	1.39	1.46
1	A	2692	ASP	N-CA	5.61	1.53	1.46
1	E	2570	ALA	N-CA	5.61	1.53	1.46
1	G	2570	ALA	N-CA	5.61	1.53	1.46
1	E	3541	ALA	CA-C	5.61	1.60	1.52
1	G	2528	PRO	CA-C	5.61	1.60	1.52
1	C	1811	ALA	N-CA	-5.61	1.39	1.46
1	A	4173	TYR	C-O	-5.60	1.17	1.24
1	A	1017	ARG	N-CA	5.60	1.53	1.46
1	A	3541	ALA	CA-C	5.60	1.60	1.52
1	E	4966	ASP	N-CA	-5.60	1.39	1.46
1	A	2570	ALA	N-CA	5.60	1.53	1.46
1	A	3565	GLY	N-CA	5.60	1.52	1.45
1	A	1811	ALA	N-CA	-5.60	1.39	1.46
1	C	3565	GLY	N-CA	5.60	1.52	1.45
1	A	4879	MET	N-CA	-5.60	1.39	1.46
1	A	3053	ARG	N-CA	5.60	1.53	1.46
1	E	2653	LYS	CA-C	5.59	1.60	1.52
1	E	1017	ARG	N-CA	5.59	1.53	1.46
1	A	996	TRP	C-O	5.59	1.31	1.24
1	A	4943	LEU	N-CA	-5.59	1.39	1.46
1	C	2453	ILE	N-CA	-5.59	1.39	1.46
1	A	3526	ALA	N-CA	5.59	1.52	1.46
1	E	996	TRP	C-O	5.59	1.31	1.24
1	G	615	ARG	N-CA	-5.59	1.39	1.46
1	G	4960	ILE	N-CA	-5.59	1.39	1.46
1	A	615	ARG	N-CA	-5.58	1.39	1.46
1	C	2113	SER	CA-C	-5.58	1.45	1.52
1	A	2453	ILE	N-CA	-5.58	1.39	1.46
1	A	3331	GLU	CA-C	5.58	1.60	1.52
1	E	939	VAL	N-CA	5.58	1.52	1.46
1	G	3084	GLY	N-CA	5.58	1.52	1.44
1	C	2788	HIS	CA-C	5.58	1.57	1.52
1	E	1711	TYR	N-CA	-5.58	1.39	1.46
1	E	1846	SER	N-CA	-5.58	1.39	1.46
1	A	3159	ASP	CA-C	5.58	1.60	1.52
1	A	4966	ASP	N-CA	-5.58	1.39	1.46
1	A	3698	LEU	N-CA	-5.58	1.39	1.46
1	A	3484	ALA	N-CA	5.57	1.53	1.46
1	C	1546	THR	C-O	-5.57	1.16	1.23
1	C	1711	TYR	N-CA	-5.57	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	400	ALA	N-CA	-5.57	1.39	1.46
1	C	2115	GLU	N-CA	-5.57	1.39	1.46
1	A	1711	TYR	N-CA	-5.57	1.39	1.46
1	A	2115	GLU	N-CA	-5.57	1.39	1.46
1	C	923	GLN	N-CA	5.57	1.53	1.46
1	E	1717	SER	CA-C	-5.57	1.45	1.52
1	A	923	GLN	N-CA	5.57	1.53	1.46
1	C	396	GLU	N-CA	-5.57	1.39	1.46
1	C	3885	PHE	N-CA	-5.57	1.38	1.46
1	G	1717	SER	CA-C	-5.57	1.45	1.52
1	A	4234	PHE	N-CA	-5.56	1.39	1.46
1	G	996	TRP	C-O	5.56	1.31	1.24
1	E	2528	PRO	CA-C	5.56	1.60	1.52
1	G	3541	ALA	CA-C	5.56	1.60	1.52
1	E	2115	GLU	N-CA	-5.56	1.39	1.46
1	E	3781	GLN	CA-C	-5.56	1.45	1.52
1	C	3159	ASP	CA-C	5.56	1.60	1.52
1	G	1811	ALA	N-CA	-5.56	1.39	1.46
1	G	3054	VAL	CA-C	5.56	1.59	1.52
1	C	1717	SER	CA-C	-5.55	1.45	1.52
1	E	3565	GLY	N-CA	5.55	1.52	1.45
1	G	1846	SER	N-CA	-5.55	1.39	1.46
1	G	3818	ASP	CA-C	-5.55	1.45	1.52
1	C	3098	SER	N-CA	5.55	1.53	1.46
1	E	2851	PRO	N-CA	5.55	1.53	1.47
1	C	3698	LEU	N-CA	-5.55	1.39	1.46
1	E	3053	ARG	N-CA	5.55	1.53	1.46
1	E	4844	LEU	N-CA	-5.55	1.39	1.46
1	G	3882	GLN	CA-C	-5.55	1.45	1.52
1	E	867	LEU	CA-C	5.54	1.60	1.52
1	G	4939	ALA	N-CA	-5.54	1.39	1.46
1	A	4829	SER	CA-C	-5.54	1.45	1.52
1	C	2528	PRO	CA-C	5.54	1.60	1.52
1	A	3347	SER	N-CA	5.54	1.53	1.46
1	A	2546	MET	CA-CB	5.54	1.62	1.53
1	E	2453	ILE	N-CA	-5.54	1.39	1.46
1	G	4139	ILE	CA-C	-5.54	1.45	1.52
1	A	3045	LYS	N-CA	5.54	1.53	1.46
1	A	3078	ARG	N-CA	5.54	1.53	1.46
1	A	3098	SER	N-CA	5.54	1.53	1.46
1	C	2570	ALA	N-CA	5.53	1.53	1.46
1	G	2453	ILE	N-CA	-5.53	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	3885	PHE	N-CA	-5.53	1.38	1.46
1	G	2058	SER	N-CA	5.53	1.53	1.46
1	E	3045	LYS	N-CA	5.53	1.53	1.46
1	G	3079	THR	CA-C	5.53	1.60	1.52
1	G	3161	VAL	N-CA	5.53	1.53	1.46
1	C	3823	LYS	CA-C	-5.53	1.45	1.52
1	E	1931	LEU	N-CA	-5.53	1.40	1.45
1	A	3325	ASN	CA-C	5.53	1.59	1.52
1	C	4173	TYR	C-O	-5.53	1.17	1.24
1	C	4234	PHE	N-CA	-5.53	1.39	1.46
1	E	3184	GLU	N-CA	5.52	1.53	1.46
1	E	4027	LEU	N-CA	-5.52	1.38	1.46
1	G	3937	TYR	C-O	5.52	1.31	1.24
1	G	4967	TYR	N-CA	-5.52	1.39	1.46
1	E	472	ARG	N-CA	-5.52	1.39	1.46
1	C	400	ALA	N-CA	-5.52	1.39	1.46
1	E	1838	PHE	CA-C	-5.52	1.45	1.52
1	A	3781	GLN	CA-C	-5.52	1.45	1.52
1	A	2528	PRO	CA-C	5.51	1.60	1.52
1	A	867	LEU	CA-C	5.51	1.60	1.52
1	E	3484	ALA	N-CA	5.51	1.53	1.46
1	E	615	ARG	N-CA	-5.51	1.39	1.46
1	G	4196	GLU	CA-C	-5.50	1.45	1.52
1	A	4142	ASN	CA-C	-5.50	1.45	1.52
1	C	3325	ASN	CA-C	5.50	1.59	1.52
1	G	4790	LEU	N-CA	5.50	1.53	1.46
1	A	1835	GLU	N-CA	-5.50	1.39	1.46
1	C	1017	ARG	N-CA	5.50	1.53	1.46
1	E	3331	GLU	CA-C	5.50	1.60	1.52
1	E	4795	TYR	N-CA	-5.50	1.39	1.46
1	E	2098	VAL	N-CA	-5.50	1.40	1.46
1	G	2653	LYS	CA-C	5.50	1.60	1.52
1	E	2421	ALA	N-CA	5.50	1.53	1.46
1	C	4790	LEU	CB-CG	5.50	1.64	1.53
1	C	2098	VAL	N-CA	-5.49	1.40	1.46
1	C	3053	ARG	N-CA	5.49	1.53	1.46
1	A	3730	ALA	CA-C	-5.49	1.45	1.52
1	G	5009	TYR	CA-C	-5.49	1.45	1.52
1	E	3325	ASN	CA-C	5.48	1.59	1.52
1	C	3078	ARG	N-CA	5.48	1.52	1.46
1	G	1079	LYS	N-CA	-5.48	1.39	1.46
1	A	2204	HIS	N-CA	-5.48	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	2204	HIS	N-CA	-5.47	1.39	1.46
1	C	2117	VAL	N-CA	-5.47	1.39	1.46
1	C	2138	LEU	C-O	-5.47	1.19	1.24
1	C	4829	SER	CA-C	-5.47	1.45	1.52
1	E	3526	ALA	N-CA	5.47	1.52	1.46
1	A	4573	ILE	CA-C	-5.47	1.45	1.52
1	E	923	GLN	N-CA	5.47	1.53	1.46
1	G	2696	TYR	CA-C	5.47	1.60	1.52
1	G	4976	GLU	N-CA	5.47	1.53	1.46
1	A	3111	ARG	CA-C	5.47	1.60	1.52
1	A	3885	PHE	N-CA	-5.47	1.38	1.46
1	G	3835	LEU	CA-C	-5.46	1.45	1.52
1	A	939	VAL	N-CA	5.46	1.52	1.46
1	C	4879	MET	N-CA	-5.46	1.39	1.46
1	E	4852	THR	N-CA	-5.46	1.39	1.46
1	A	1783	VAL	CA-C	5.45	1.59	1.52
1	C	1934	SER	N-CA	-5.45	1.39	1.46
1	C	3526	ALA	N-CA	5.45	1.52	1.46
1	E	705	ASN	N-CA	5.45	1.53	1.45
1	G	2098	VAL	N-CA	-5.45	1.40	1.46
1	G	3702	VAL	N-CA	-5.45	1.40	1.46
1	E	1835	GLU	N-CA	-5.45	1.39	1.46
1	G	4967	TYR	CA-C	5.45	1.60	1.52
1	A	1934	SER	N-CA	-5.45	1.39	1.46
1	A	2673	HIS	N-CA	5.45	1.52	1.46
1	G	4646	LEU	CA-C	-5.45	1.45	1.52
1	G	4966	ASP	N-CA	-5.45	1.39	1.46
1	A	705	ASN	N-CA	5.44	1.52	1.45
1	A	2574	HIS	N-CA	5.44	1.53	1.46
1	E	5011	TRP	CB-CG	-5.44	1.33	1.50
1	C	615	ARG	N-CA	-5.44	1.39	1.46
1	E	3329	ILE	N-CA	5.44	1.52	1.46
1	A	2058	SER	N-CA	5.44	1.53	1.46
1	E	3798	LEU	N-CA	-5.44	1.39	1.46
1	C	1835	GLU	N-CA	-5.43	1.39	1.46
1	C	2639	MET	CA-C	5.43	1.59	1.52
1	G	472	ARG	N-CA	-5.43	1.39	1.46
1	A	4678	ALA	N-CA	-5.42	1.39	1.46
1	G	4173	TYR	C-O	-5.42	1.17	1.24
1	A	1079	LYS	N-CA	-5.42	1.39	1.46
1	G	1735	ILE	C-O	-5.42	1.16	1.24
1	A	3881	THR	CA-C	-5.41	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	4173	TYR	C-O	-5.41	1.17	1.24
1	G	1973	GLN	N-CA	5.41	1.52	1.46
1	G	4783	ILE	N-CA	-5.41	1.39	1.46
1	A	1838	PHE	CA-C	-5.41	1.45	1.52
1	C	472	ARG	N-CA	-5.41	1.39	1.46
1	C	4852	THR	N-CA	-5.41	1.39	1.46
1	C	3160	ASP	CA-C	5.41	1.60	1.52
1	A	3406	TYR	N-CA	5.41	1.53	1.46
1	G	705	ASN	N-CA	5.41	1.52	1.45
1	G	2574	HIS	N-CA	5.41	1.53	1.46
1	C	705	ASN	N-CA	5.40	1.52	1.45
1	C	3410	PRO	CA-C	5.40	1.60	1.52
1	E	3730	ALA	CA-C	-5.40	1.45	1.52
1	A	1931	LEU	N-CA	-5.40	1.40	1.45
1	A	2117	VAL	N-CA	-5.40	1.39	1.46
1	C	1931	LEU	N-CA	-5.40	1.40	1.45
1	G	4833	ASN	C-O	-5.40	1.15	1.23
1	A	5011	TRP	CB-CG	-5.39	1.33	1.50
1	C	3045	LYS	N-CA	5.39	1.53	1.46
1	C	3331	GLU	CA-C	5.39	1.60	1.52
1	G	4190	ILE	N-CA	-5.39	1.39	1.46
1	C	944	GLU	N-CA	5.39	1.52	1.46
1	G	1601	MET	C-O	-5.39	1.18	1.24
1	E	944	GLU	N-CA	5.39	1.52	1.46
1	A	4996	ILE	N-CA	-5.38	1.39	1.46
1	C	4142	ASN	CA-C	-5.38	1.46	1.52
1	E	4142	ASN	CA-C	-5.38	1.46	1.52
1	G	4931	ILE	CA-C	-5.38	1.45	1.52
1	E	3080	VAL	N-CA	5.38	1.52	1.46
1	C	1847	THR	N-CA	-5.38	1.39	1.46
1	C	2574	HIS	N-CA	5.38	1.53	1.46
1	C	3730	ALA	CA-C	-5.38	1.45	1.52
1	C	2204	HIS	N-CA	-5.38	1.39	1.46
1	G	2823	ILE	CA-C	5.38	1.59	1.52
1	G	3296	LEU	N-CA	5.38	1.51	1.46
1	A	3184	GLU	N-CA	5.38	1.53	1.46
1	E	2117	VAL	N-CA	-5.38	1.39	1.46
1	G	4850	LEU	N-CA	-5.38	1.40	1.46
1	E	1079	LYS	N-CA	-5.38	1.39	1.46
1	C	2823	ILE	CA-C	5.37	1.59	1.52
1	E	3698	LEU	N-CA	-5.37	1.39	1.46
1	G	3406	TYR	N-CA	5.37	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	4840	THR	N-CA	-5.37	1.40	1.46
1	A	1847	THR	N-CA	-5.37	1.39	1.46
1	C	1020	ARG	N-CA	5.37	1.53	1.46
1	C	3051	ARG	CA-C	5.37	1.59	1.52
1	E	4790	LEU	CB-CG	5.37	1.64	1.53
1	E	4822	THR	N-CA	-5.37	1.39	1.46
1	G	3482	GLY	N-CA	5.37	1.52	1.45
1	G	4775	TYR	N-CA	-5.37	1.39	1.46
1	C	4967	TYR	N-CA	-5.36	1.39	1.46
1	G	4189	ARG	N-CA	-5.36	1.39	1.45
1	G	4195	PHE	C-O	-5.36	1.17	1.23
1	G	3453	ARG	N-CA	5.36	1.53	1.46
1	C	5011	TRP	CB-CG	-5.36	1.33	1.50
1	C	3080	VAL	N-CA	5.35	1.52	1.46
1	A	285	VAL	N-CA	-5.35	1.39	1.46
1	E	4996	ILE	N-CA	-5.35	1.39	1.46
1	A	3798	LEU	N-CA	-5.35	1.39	1.46
1	A	4852	THR	N-CA	-5.35	1.39	1.46
1	C	1718	ILE	CA-C	-5.35	1.44	1.52
1	C	1017	ARG	CA-CB	5.35	1.60	1.52
1	E	1973	GLN	N-CA	5.35	1.52	1.46
1	E	3051	ARG	CA-C	5.35	1.59	1.52
1	E	3410	PRO	CA-C	5.35	1.59	1.52
1	E	411	TYR	CA-C	-5.35	1.45	1.52
1	E	1735	ILE	C-O	-5.34	1.17	1.24
1	A	3051	ARG	CA-C	5.34	1.59	1.52
1	E	573	GLU	N-CA	-5.34	1.39	1.46
1	E	2582	MET	N-CA	5.34	1.52	1.46
1	E	4678	ALA	N-CA	-5.34	1.40	1.46
1	G	3655	GLU	N-CA	-5.34	1.39	1.46
1	A	4967	TYR	N-CA	-5.34	1.39	1.46
1	C	924	MET	CA-C	5.34	1.59	1.52
1	E	3881	THR	CA-C	-5.34	1.46	1.52
1	G	3961	VAL	N-CA	-5.34	1.40	1.46
1	G	453	GLU	C-N	-5.34	1.28	1.33
1	A	2378	ALA	C-O	5.33	1.30	1.24
1	A	4190	ILE	N-CA	-5.33	1.39	1.46
1	E	1111	PRO	N-CA	-5.33	1.40	1.47
1	A	1973	GLN	N-CA	5.33	1.52	1.46
1	A	4883	TYR	CA-C	-5.33	1.45	1.52
1	E	924	MET	CA-C	5.33	1.59	1.52
1	G	411	TYR	CA-C	-5.33	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	2138	LEU	C-O	-5.33	1.19	1.24
1	E	3832	ILE	N-CA	-5.33	1.39	1.46
1	C	4943	LEU	N-CA	-5.33	1.39	1.46
1	G	1847	THR	N-CA	-5.33	1.39	1.46
1	E	3661	TRP	CB-CG	5.33	1.66	1.50
1	G	944	GLU	N-CA	5.33	1.52	1.46
1	C	411	TYR	CA-C	-5.33	1.45	1.52
1	G	1111	PRO	N-CA	-5.33	1.40	1.47
1	A	472	ARG	N-CA	-5.33	1.40	1.46
1	C	1973	GLN	N-CA	5.33	1.52	1.46
1	E	4967	TYR	N-CA	-5.33	1.39	1.46
1	A	1973	GLN	CG-CD	5.32	1.65	1.52
1	C	3881	THR	CA-C	-5.32	1.46	1.52
1	C	3798	LEU	N-CA	-5.32	1.39	1.46
1	C	5019	TRP	C-O	-5.32	1.16	1.23
1	E	2574	HIS	N-CA	5.32	1.53	1.46
1	G	3421	ALA	N-CA	5.32	1.52	1.46
1	C	1716	ILE	CA-C	-5.32	1.46	1.52
1	G	970	LEU	CA-C	5.32	1.59	1.52
1	G	1934	SER	N-CA	-5.32	1.39	1.46
1	G	3966	THR	N-CA	-5.32	1.40	1.46
1	A	1017	ARG	CA-CB	5.31	1.60	1.52
1	A	1664	SER	N-CA	-5.31	1.40	1.46
1	C	590	LEU	N-CA	-5.31	1.39	1.46
1	C	1664	SER	N-CA	-5.31	1.40	1.46
1	C	3661	TRP	CB-CG	5.31	1.66	1.50
1	E	2823	ILE	CA-C	5.31	1.59	1.52
1	A	2138	LEU	C-O	-5.31	1.19	1.24
1	C	3414	ARG	CA-C	5.30	1.59	1.52
1	E	1847	THR	N-CA	-5.30	1.39	1.46
1	C	1867	GLU	CA-CB	5.30	1.61	1.53
1	E	1934	SER	N-CA	-5.30	1.39	1.46
1	G	1973	GLN	CG-CD	5.30	1.65	1.52
1	C	2696	TYR	CA-C	5.30	1.59	1.52
1	G	1017	ARG	CA-CB	5.30	1.60	1.52
1	A	3080	VAL	N-CA	5.30	1.52	1.46
1	C	2058	SER	N-CA	5.29	1.52	1.46
1	G	285	VAL	N-CA	-5.29	1.39	1.46
1	A	411	TYR	CA-C	-5.29	1.45	1.52
1	C	4646	LEU	CA-C	-5.29	1.45	1.52
1	G	590	LEU	N-CA	-5.29	1.39	1.46
1	C	3026	GLY	CA-C	5.28	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	3415	TYR	N-CA	5.28	1.52	1.46
1	G	4230	LYS	C-O	-5.28	1.17	1.24
1	A	1601	MET	C-O	-5.28	1.18	1.24
1	C	3329	ILE	N-CA	5.28	1.52	1.46
1	G	2692	ASP	C-O	5.28	1.30	1.24
1	C	3184	GLU	N-CA	5.28	1.52	1.46
1	C	4889	VAL	CA-C	-5.28	1.45	1.53
1	G	940	GLY	N-CA	5.28	1.50	1.45
1	G	4848	VAL	N-CA	-5.28	1.39	1.46
1	A	944	GLU	N-CA	5.27	1.52	1.46
1	C	2378	ALA	C-O	5.27	1.30	1.24
1	C	1735	ILE	C-O	-5.27	1.17	1.24
1	A	3160	ASP	CA-C	5.27	1.59	1.52
1	G	567	VAL	N-CA	-5.27	1.40	1.46
1	G	3497	LYS	N-CA	5.27	1.52	1.46
1	E	1716	ILE	CA-C	-5.27	1.46	1.52
1	C	1111	PRO	N-CA	-5.26	1.40	1.47
1	E	1017	ARG	CA-CB	5.26	1.60	1.52
1	G	3991	GLY	N-CA	-5.26	1.39	1.45
1	C	970	LEU	CA-C	5.26	1.59	1.52
1	G	3781	GLN	N-CA	-5.26	1.39	1.46
1	C	4147	LEU	CA-C	-5.26	1.46	1.52
1	A	2823	ILE	CA-C	5.26	1.59	1.52
1	E	970	LEU	CA-C	5.26	1.59	1.52
1	E	3981	ALA	CA-C	-5.26	1.45	1.52
1	C	3836	MET	N-CA	-5.25	1.39	1.46
1	A	3666	ASP	CA-C	-5.25	1.45	1.52
1	E	3836	MET	N-CA	-5.25	1.39	1.46
1	A	598	LYS	N-CA	-5.25	1.40	1.46
1	A	4967	TYR	CA-C	5.25	1.59	1.52
1	E	3160	ASP	CA-C	5.25	1.59	1.52
1	A	3115	VAL	N-CA	5.25	1.53	1.46
1	A	3198	ALA	CA-C	5.25	1.59	1.52
1	C	4678	ALA	N-CA	-5.25	1.40	1.46
1	A	2582	MET	N-CA	5.24	1.52	1.46
1	E	2673	HIS	N-CA	5.24	1.52	1.46
1	A	4795	TYR	N-CA	-5.24	1.40	1.46
1	G	1020	ARG	N-CA	5.24	1.53	1.46
1	G	3331	GLU	CA-C	5.24	1.59	1.52
1	C	4774	LYS	N-CA	5.24	1.53	1.46
1	E	2378	ALA	C-O	5.24	1.30	1.24
1	A	1735	ILE	C-O	-5.24	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	1664	SER	N-CA	-5.24	1.40	1.46
1	E	5019	TRP	C-O	-5.24	1.16	1.23
1	G	2116	LEU	C-N	-5.23	1.27	1.33
1	C	285	VAL	N-CA	-5.23	1.39	1.46
1	C	4996	ILE	N-CA	-5.23	1.39	1.46
1	E	567	VAL	N-CA	-5.23	1.40	1.46
1	G	2378	ALA	C-O	5.23	1.30	1.24
1	E	4230	LYS	CA-CB	5.23	1.61	1.53
1	A	1020	ARG	N-CA	5.23	1.53	1.46
1	E	590	LEU	N-CA	-5.23	1.40	1.46
1	C	66	CYS	CA-CB	5.23	1.60	1.52
1	G	3836	MET	N-CA	-5.23	1.39	1.46
1	E	3415	TYR	N-CA	5.23	1.52	1.46
1	E	4883	TYR	CA-C	-5.23	1.45	1.52
1	G	2582	MET	N-CA	5.23	1.52	1.46
1	E	4190	ILE	N-CA	-5.22	1.39	1.46
1	G	4577	LEU	CA-C	-5.22	1.45	1.52
1	G	4672	LYS	N-CA	-5.22	1.40	1.46
1	A	1212	ARG	CZ-NH2	-5.22	1.26	1.33
1	C	573	GLU	N-CA	-5.22	1.40	1.46
1	E	4967	TYR	CA-C	5.22	1.59	1.52
1	C	76	ARG	N-CA	-5.22	1.39	1.46
1	C	4883	TYR	CA-C	-5.22	1.45	1.52
1	E	4943	LEU	N-CA	-5.22	1.39	1.46
1	G	4699	GLY	N-CA	-5.22	1.37	1.45
1	A	3410	PRO	CA-C	5.22	1.59	1.52
1	A	66	CYS	CA-CB	5.22	1.60	1.52
1	A	3356	SER	N-CA	5.22	1.52	1.46
1	C	1079	LYS	N-CA	-5.22	1.39	1.46
1	E	2552	ARG	CA-C	5.22	1.59	1.52
1	A	3815	LYS	N-CA	-5.21	1.39	1.46
1	C	4669	VAL	N-CA	-5.21	1.39	1.46
1	A	3166	TYR	CA-C	5.21	1.59	1.52
1	E	3166	TYR	CA-C	5.21	1.59	1.52
1	G	3167	ARG	N-CA	5.21	1.52	1.46
1	E	4573	ILE	CA-C	-5.21	1.46	1.52
1	C	4190	ILE	N-CA	-5.21	1.39	1.46
1	A	2123	LEU	CA-C	-5.21	1.45	1.52
1	E	2123	LEU	CA-C	-5.21	1.45	1.52
1	E	2917	ALA	N-CA	5.21	1.52	1.46
1	E	3026	GLY	CA-C	5.21	1.58	1.51
1	A	939	VAL	CA-CB	5.20	1.59	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1716	ILE	CA-C	-5.20	1.46	1.52
1	C	1601	MET	C-O	-5.20	1.18	1.24
1	C	1212	ARG	CZ-NH2	-5.20	1.26	1.33
1	E	812	HIS	N-CA	5.20	1.52	1.46
1	E	4699	GLY	N-CA	-5.20	1.37	1.45
1	E	4928	LEU	C-N	-5.20	1.27	1.33
1	G	66	CYS	CA-CB	5.20	1.60	1.52
1	C	567	VAL	N-CA	-5.20	1.40	1.46
1	A	4139	ILE	CA-C	-5.20	1.46	1.52
1	A	454	PRO	C-O	-5.20	1.18	1.24
1	A	2120	MET	CA-C	-5.20	1.46	1.52
1	A	3832	ILE	N-CA	-5.20	1.39	1.46
1	E	3070	ILE	N-CA	5.20	1.52	1.46
1	G	3112	LEU	N-CA	5.20	1.52	1.46
1	A	1109	LEU	CA-C	-5.19	1.46	1.52
1	A	1707	LEU	N-CA	-5.19	1.40	1.46
1	C	4795	TYR	N-CA	-5.19	1.40	1.46
1	E	3078	ARG	N-CA	5.19	1.52	1.46
1	E	2058	SER	N-CA	5.19	1.52	1.46
1	G	573	GLU	N-CA	-5.19	1.40	1.46
1	G	2917	ALA	N-CA	5.19	1.52	1.46
1	C	2919	ASP	CA-C	5.19	1.59	1.52
1	G	3659	ALA	C-O	-5.19	1.17	1.24
1	A	5019	TRP	C-O	-5.18	1.16	1.23
1	G	3080	VAL	N-CA	5.18	1.52	1.46
1	G	4733	GLY	C-O	-5.18	1.18	1.23
1	C	906	CYS	N-CA	5.18	1.52	1.46
1	G	2746	ILE	CA-C	5.18	1.59	1.52
1	A	2696	TYR	CA-C	5.18	1.59	1.52
1	A	4669	VAL	N-CA	-5.18	1.39	1.46
1	C	3415	TYR	N-CA	5.18	1.52	1.46
1	C	3815	LYS	N-CA	-5.18	1.39	1.46
1	E	1212	ARG	CZ-NH2	-5.18	1.26	1.33
1	G	1867	GLU	CA-CB	5.18	1.60	1.53
1	E	2696	TYR	CA-C	5.18	1.59	1.52
1	G	1716	ILE	CA-C	-5.18	1.46	1.52
1	C	2926	LEU	N-CA	-5.17	1.40	1.46
1	G	3053	ARG	C-O	5.17	1.30	1.24
1	C	3490	ASP	N-CA	5.17	1.52	1.46
1	E	1664	SER	N-CA	-5.17	1.40	1.46
1	A	4230	LYS	CA-CB	5.17	1.61	1.53
1	E	3553	LEU	N-CA	5.17	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	567	VAL	N-CA	-5.17	1.40	1.46
1	C	4967	TYR	CA-C	5.17	1.59	1.52
1	G	5010	VAL	N-CA	-5.17	1.40	1.46
1	A	2850	ASP	N-CA	5.16	1.54	1.46
1	A	2917	ALA	N-CA	5.16	1.52	1.46
1	G	1718	ILE	CA-C	-5.16	1.45	1.52
1	C	465	GLN	N-CA	-5.16	1.39	1.46
1	C	3553	LEU	N-CA	5.16	1.52	1.46
1	A	910	PHE	N-CA	5.16	1.52	1.46
1	C	598	LYS	N-CA	-5.16	1.40	1.46
1	G	1810	LYS	CA-C	-5.16	1.46	1.52
1	E	4669	VAL	N-CA	-5.16	1.39	1.46
1	G	2747	ILE	N-CA	5.16	1.53	1.47
1	A	573	GLU	N-CA	-5.16	1.40	1.46
1	A	2692	ASP	C-O	5.16	1.30	1.24
1	A	3026	GLY	CA-C	5.16	1.58	1.51
1	A	3329	ILE	N-CA	5.16	1.52	1.46
1	C	4196	GLU	CA-C	-5.16	1.46	1.52
1	E	3198	ALA	CA-C	5.16	1.59	1.52
1	G	924	MET	CA-C	5.16	1.58	1.52
1	G	76	ARG	N-CA	-5.15	1.39	1.46
1	E	2120	MET	CA-C	-5.15	1.46	1.52
1	E	3482	GLY	N-CA	5.15	1.52	1.45
1	G	4578	LEU	N-CA	-5.15	1.39	1.46
1	A	2639	MET	CA-C	5.15	1.59	1.52
1	A	3553	LEU	N-CA	5.15	1.52	1.46
1	C	4174	PHE	N-CA	-5.15	1.39	1.46
1	A	465	GLN	N-CA	-5.15	1.39	1.46
1	E	3356	SER	N-CA	5.15	1.52	1.46
1	E	4774	LYS	N-CA	5.15	1.53	1.46
1	G	1212	ARG	CZ-NH2	-5.15	1.26	1.33
1	G	3054	VAL	N-CA	5.15	1.52	1.46
1	C	2582	MET	N-CA	5.15	1.52	1.46
1	A	2552	ARG	CA-C	5.14	1.59	1.52
1	E	2420	HIS	CA-C	5.14	1.59	1.53
1	E	3666	ASP	CA-C	-5.14	1.45	1.52
1	A	1867	GLU	CA-CB	5.14	1.60	1.53
1	A	2174	GLU	CA-CB	5.14	1.61	1.53
1	C	1775	HIS	N-CA	-5.14	1.39	1.46
1	E	76	ARG	N-CA	-5.14	1.39	1.46
1	G	2552	ARG	CA-C	5.14	1.59	1.52
1	E	4230	LYS	C-O	-5.14	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	2573	GLU	CA-C	5.14	1.59	1.52
1	G	4775	TYR	CA-C	-5.14	1.46	1.52
1	E	4147	LEU	CA-C	-5.14	1.46	1.52
1	A	3490	ASP	N-CA	5.13	1.52	1.46
1	E	579	GLN	C-O	-5.13	1.17	1.23
1	E	1810	LYS	CA-C	-5.13	1.46	1.52
1	E	2379	ALA	C-O	5.13	1.30	1.24
1	G	3283	ARG	N-CA	5.13	1.52	1.46
1	A	590	LEU	N-CA	-5.13	1.40	1.46
1	A	4774	LYS	N-CA	5.13	1.53	1.46
1	G	3325	ASN	CA-C	5.13	1.59	1.52
1	A	940	GLY	N-CA	5.13	1.50	1.45
1	A	3414	ARG	CA-C	5.13	1.59	1.52
1	A	4844	LEU	N-CA	-5.13	1.40	1.46
1	C	2917	ALA	N-CA	5.13	1.52	1.46
1	C	2673	HIS	N-CA	5.13	1.52	1.46
1	E	2919	ASP	CA-C	5.13	1.59	1.52
1	E	4139	ILE	CA-C	-5.13	1.46	1.52
1	E	4929	LEU	N-CA	-5.13	1.40	1.46
1	G	3496	LYS	CA-C	5.13	1.59	1.52
1	A	4196	GLU	CA-C	-5.13	1.46	1.52
1	A	4577	LEU	CA-C	-5.13	1.45	1.52
1	C	4629	TYR	N-CA	5.13	1.52	1.46
1	E	1601	MET	C-O	-5.13	1.18	1.24
1	E	2573	GLU	CA-C	5.13	1.59	1.52
1	C	4851	TYR	CA-C	-5.12	1.45	1.52
1	G	3288	GLY	N-CA	5.12	1.51	1.44
1	A	906	CYS	N-CA	5.12	1.52	1.46
1	A	4017	LEU	N-CA	-5.12	1.40	1.46
1	C	939	VAL	CA-CB	5.12	1.59	1.54
1	E	939	VAL	CA-CB	5.12	1.59	1.54
1	A	452	PHE	C-O	-5.12	1.18	1.23
1	G	3279	SER	N-CA	5.12	1.52	1.46
1	E	66	CYS	CA-CB	5.12	1.60	1.52
1	E	3540	TYR	N-CA	5.12	1.52	1.46
1	G	598	LYS	N-CA	-5.12	1.40	1.46
1	A	1179	PHE	CA-C	-5.12	1.47	1.53
1	C	1690	ASP	CA-C	-5.12	1.46	1.52
1	G	3775	ALA	CA-C	-5.12	1.45	1.52
1	C	290	TYR	C-O	-5.11	1.17	1.23
1	E	4629	TYR	N-CA	5.11	1.52	1.46
1	G	290	TYR	C-O	-5.11	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	812	HIS	N-CA	5.11	1.52	1.46
1	A	4174	PHE	N-CA	-5.11	1.39	1.46
1	C	4230	LYS	CA-CB	5.11	1.61	1.53
1	E	968	ALA	C-N	5.11	1.40	1.33
1	E	2692	ASP	C-O	5.11	1.30	1.24
1	G	906	CYS	N-CA	5.11	1.52	1.46
1	C	4578	LEU	N-CA	-5.11	1.39	1.46
1	A	2420	HIS	CA-C	5.11	1.59	1.53
1	C	454	PRO	C-O	-5.11	1.18	1.24
1	E	3414	ARG	CA-C	5.10	1.59	1.52
1	A	3836	MET	N-CA	-5.10	1.39	1.46
1	C	3356	SER	N-CA	5.10	1.52	1.46
1	A	290	TYR	C-O	-5.10	1.17	1.23
1	C	2747	ILE	N-CA	5.10	1.53	1.47
1	C	4569	LEU	CA-C	-5.10	1.46	1.52
1	E	3490	ASP	N-CA	5.10	1.52	1.46
1	G	1775	HIS	N-CA	-5.10	1.39	1.46
1	E	290	TYR	C-O	-5.09	1.17	1.23
1	E	1855	GLY	N-CA	5.09	1.52	1.45
1	G	2704	CYS	C-O	5.09	1.30	1.24
1	A	1775	HIS	N-CA	-5.09	1.39	1.46
1	G	2850	ASP	N-CA	5.09	1.54	1.46
1	A	2747	ILE	N-CA	5.09	1.53	1.47
1	A	4646	LEU	CA-C	-5.09	1.45	1.52
1	C	4577	LEU	CA-C	-5.09	1.45	1.52
1	G	2174	GLU	CA-CB	5.09	1.61	1.53
1	G	4871	GLU	C-O	5.09	1.29	1.24
1	C	3165	CYS	CA-C	5.09	1.59	1.52
1	G	3770	LEU	C-O	-5.09	1.17	1.24
1	C	812	HIS	N-CA	5.09	1.52	1.46
1	C	4775	TYR	CA-C	-5.09	1.45	1.52
1	C	4229	GLU	C-O	-5.08	1.17	1.24
1	E	4930	ALA	CA-C	-5.08	1.46	1.52
1	A	924	MET	CA-C	5.08	1.58	1.52
1	C	3832	ILE	N-CA	-5.08	1.39	1.46
1	C	3981	ALA	CA-C	-5.08	1.45	1.52
1	E	3815	LYS	N-CA	-5.08	1.39	1.46
1	G	2639	MET	CA-C	5.08	1.58	1.52
1	E	1620	ALA	C-O	5.08	1.30	1.23
1	E	598	LYS	N-CA	-5.08	1.40	1.46
1	E	4775	TYR	CA-C	-5.08	1.45	1.52
1	G	1707	LEU	N-CA	-5.08	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	3334	TRP	N-CA	5.07	1.52	1.46
1	A	4699	GLY	N-CA	-5.07	1.37	1.45
1	C	4800	LEU	CB-CG	5.07	1.63	1.53
1	G	3562	LYS	N-CA	5.07	1.52	1.46
1	A	2919	ASP	CA-C	5.07	1.59	1.52
1	A	4229	GLU	C-O	-5.07	1.17	1.24
1	C	1973	GLN	CG-CD	5.07	1.64	1.52
1	C	4844	LEU	N-CA	-5.07	1.40	1.46
1	E	1179	PHE	CA-C	-5.07	1.47	1.53
1	A	4889	VAL	CA-C	-5.07	1.45	1.53
1	C	2174	GLU	CA-CB	5.07	1.61	1.53
1	C	3540	TYR	N-CA	5.07	1.52	1.46
1	E	2850	ASP	N-CA	5.07	1.54	1.46
1	E	4017	LEU	N-CA	-5.07	1.40	1.46
1	C	1810	LYS	CA-C	-5.07	1.46	1.52
1	C	1855	GLY	N-CA	5.06	1.52	1.45
1	E	4889	VAL	N-CA	-5.06	1.40	1.46
1	A	1111	PRO	N-CA	-5.06	1.40	1.47
1	E	2747	ILE	N-CA	5.06	1.53	1.47
1	A	812	HIS	N-CA	5.06	1.52	1.46
1	A	1810	LYS	CA-C	-5.06	1.46	1.52
1	C	3334	TRP	N-CA	5.06	1.52	1.46
1	C	4139	ILE	CA-C	-5.06	1.46	1.52
1	E	4646	LEU	CA-C	-5.06	1.45	1.52
1	G	4889	VAL	CA-C	-5.06	1.46	1.52
1	C	3482	GLY	N-CA	5.05	1.52	1.45
1	C	4699	GLY	N-CA	-5.05	1.37	1.45
1	E	465	GLN	N-CA	-5.05	1.40	1.46
1	G	1179	PHE	CA-C	-5.05	1.47	1.53
1	A	970	LEU	CA-C	5.05	1.58	1.52
1	A	4775	TYR	CA-C	-5.05	1.45	1.52
1	A	4569	LEU	CA-C	-5.05	1.46	1.52
1	C	3070	ILE	N-CA	5.05	1.52	1.46
1	G	563	VAL	N-CA	-5.05	1.40	1.46
1	C	3916	ILE	CA-CB	-5.05	1.47	1.54
1	E	3334	TRP	N-CA	5.05	1.52	1.46
1	E	1775	HIS	N-CA	-5.04	1.39	1.46
1	G	2420	HIS	CA-C	5.04	1.58	1.53
1	G	1692	ALA	N-CA	-5.04	1.39	1.46
1	A	3981	ALA	CA-C	-5.04	1.45	1.52
1	A	4147	LEU	CA-C	-5.04	1.46	1.52
1	C	4142	ASN	N-CA	-5.04	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	3288	GLY	N-CA	5.04	1.51	1.44
1	C	579	GLN	C-O	-5.04	1.17	1.23
1	E	1728	ARG	CZ-NH1	5.04	1.39	1.32
1	A	3801	GLY	CA-C	-5.04	1.46	1.52
1	A	4928	LEU	C-N	-5.04	1.27	1.33
1	G	3017	PHE	N-CA	5.04	1.52	1.46
1	C	1179	PHE	CA-C	-5.03	1.47	1.53
1	G	446	GLN	N-CA	-5.03	1.39	1.46
1	G	1973	GLN	CA-CB	5.03	1.61	1.53
1	A	2379	ALA	C-O	5.03	1.30	1.24
1	A	3165	CYS	CA-C	5.03	1.59	1.52
1	E	454	PRO	C-O	-5.03	1.18	1.24
1	E	4829	SER	CA-C	-5.03	1.45	1.52
1	G	2379	ALA	C-O	5.03	1.30	1.24
1	A	3482	GLY	N-CA	5.03	1.52	1.45
1	E	4851	TYR	CA-C	-5.03	1.46	1.52
1	G	482	GLY	C-O	5.03	1.31	1.24
1	G	3115	VAL	N-CA	5.03	1.52	1.46
1	G	4989	MET	N-CA	-5.03	1.40	1.46
1	C	2573	GLU	CA-C	5.03	1.59	1.52
1	C	4017	LEU	N-CA	-5.03	1.40	1.46
1	E	563	VAL	N-CA	-5.03	1.40	1.46
1	G	3143	LEU	CA-C	5.03	1.59	1.52
1	G	3205	PHE	C-O	5.03	1.30	1.24
1	A	3540	TYR	N-CA	5.03	1.52	1.46
1	C	1109	LEU	CA-C	-5.03	1.46	1.52
1	C	2379	ALA	C-O	5.03	1.29	1.24
1	E	2746	ILE	CA-C	5.03	1.59	1.52
1	C	1707	LEU	N-CA	-5.02	1.40	1.46
1	A	4578	LEU	N-CA	-5.02	1.39	1.46
1	E	3214	ASN	N-CA	5.02	1.52	1.46
1	C	2694	GLU	N-CA	5.02	1.52	1.46
1	C	3214	ASN	N-CA	5.02	1.52	1.46
1	E	1707	LEU	N-CA	-5.02	1.40	1.46
1	E	1973	GLN	CG-CD	5.02	1.64	1.52
1	E	5029	ARG	C-O	5.02	1.30	1.24
1	G	939	VAL	CA-CB	5.02	1.59	1.54
1	A	610	ASN	N-CA	-5.02	1.40	1.46
1	A	4230	LYS	C-O	-5.02	1.17	1.24
1	C	3077	ALA	N-CA	5.02	1.52	1.46
1	A	3916	ILE	CA-CB	-5.01	1.47	1.54
1	E	1867	GLU	CA-CB	5.01	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	3801	GLY	CA-C	-5.01	1.46	1.52
1	E	3916	ILE	CA-CB	-5.01	1.47	1.54
1	A	2746	ILE	CA-C	5.01	1.59	1.52
1	E	4577	LEU	CA-C	-5.01	1.45	1.52
1	G	3377	GLU	N-CA	5.01	1.52	1.46
1	A	1290	ARG	C-O	-5.01	1.17	1.23
1	A	1578	ALA	CA-C	5.01	1.58	1.52
1	C	1620	ALA	C-O	5.01	1.29	1.23
1	C	2746	ILE	CA-C	5.01	1.59	1.52
1	E	1690	ASP	CA-C	-5.01	1.46	1.52
1	G	3798	LEU	N-CA	-5.01	1.40	1.46
1	A	1855	GLY	N-CA	5.01	1.52	1.45
1	A	3214	ASN	N-CA	5.01	1.52	1.46
1	A	4142	ASN	N-CA	-5.01	1.40	1.46
1	C	2552	ARG	CA-C	5.01	1.59	1.52
1	E	1109	LEU	CA-C	-5.01	1.46	1.52
1	E	2639	MET	CA-C	5.01	1.58	1.52
1	C	3770	LEU	C-O	-5.00	1.17	1.24
1	A	1690	ASP	CA-C	-5.00	1.46	1.52
1	C	563	VAL	N-CA	-5.00	1.40	1.46
1	E	872	GLU	CA-C	5.00	1.59	1.52
1	A	855	PRO	N-CA	5.00	1.53	1.47
1	C	3115	VAL	N-CA	5.00	1.52	1.46
1	E	4196	GLU	CA-C	-5.00	1.46	1.52

All (752) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1224	GLU	CA-C-N	12.90	132.88	119.85
1	A	1224	GLU	C-N-CA	12.90	132.88	119.85
1	C	1224	GLU	CA-C-N	12.85	132.83	119.85
1	C	1224	GLU	C-N-CA	12.85	132.83	119.85
1	G	1224	GLU	CA-C-N	12.41	132.39	119.85
1	G	1224	GLU	C-N-CA	12.41	132.39	119.85
1	E	1224	GLU	CA-C-N	12.22	132.20	119.85
1	E	1224	GLU	C-N-CA	12.22	132.20	119.85
1	G	1748	PHE	CA-C-N	11.35	127.83	119.66
1	G	1748	PHE	C-N-CA	11.35	127.83	119.66
1	A	1748	PHE	CA-C-N	11.05	127.62	119.66
1	A	1748	PHE	C-N-CA	11.05	127.62	119.66
1	C	1748	PHE	CA-C-N	10.80	127.44	119.66
1	C	1748	PHE	C-N-CA	10.80	127.44	119.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1748	PHE	CA-C-N	10.74	127.39	119.66
1	E	1748	PHE	C-N-CA	10.74	127.39	119.66
1	C	3303	PRO	N-CA-CB	10.36	114.72	103.33
1	E	3303	PRO	N-CA-CB	10.29	114.65	103.33
1	A	2640	PRO	N-CA-CB	10.24	114.45	103.39
1	C	2640	PRO	N-CA-CB	10.24	114.45	103.39
1	E	2640	PRO	N-CA-CB	10.23	114.44	103.39
1	G	2640	PRO	N-CA-CB	10.21	114.42	103.39
1	A	3303	PRO	N-CA-CB	10.17	114.52	103.33
1	A	2567	PRO	N-CA-CB	10.07	114.08	103.00
1	E	2567	PRO	N-CA-CB	10.00	114.00	103.00
1	E	1465	ASP	N-CA-C	9.84	124.26	108.41
1	G	2567	PRO	N-CA-CB	9.82	113.80	103.00
1	A	1465	ASP	N-CA-C	9.80	124.19	108.41
1	G	1465	ASP	N-CA-C	9.80	124.18	108.41
1	C	915	GLU	CA-C-N	9.79	132.08	119.84
1	C	915	GLU	C-N-CA	9.79	132.08	119.84
1	C	1465	ASP	N-CA-C	9.76	124.12	108.41
1	A	915	GLU	CA-C-N	9.69	131.95	119.84
1	A	915	GLU	C-N-CA	9.69	131.95	119.84
1	G	915	GLU	CA-C-N	9.69	131.95	119.84
1	G	915	GLU	C-N-CA	9.69	131.95	119.84
1	C	2567	PRO	N-CA-CB	9.68	113.65	103.00
1	G	1976	ARG	CD-NE-CZ	9.66	137.93	124.40
1	E	915	GLU	CA-C-N	9.62	131.87	119.84
1	E	915	GLU	C-N-CA	9.62	131.87	119.84
1	E	1457	TYR	N-CA-C	9.51	121.98	110.19
1	C	3297	PRO	N-CA-CB	9.48	113.76	103.33
1	C	1457	TYR	N-CA-C	9.44	121.89	110.19
1	A	1457	TYR	N-CA-C	9.43	121.88	110.19
1	E	3297	PRO	N-CA-CB	9.41	113.68	103.33
1	A	3297	PRO	N-CA-CB	9.35	113.61	103.33
1	G	1457	TYR	N-CA-C	9.33	121.75	110.19
1	G	3301	PRO	N-CA-CB	9.21	112.02	103.08
1	G	3303	PRO	N-CA-CB	9.19	113.31	103.39
1	G	453	GLU	CA-C-N	9.03	126.25	119.66
1	G	453	GLU	C-N-CA	9.03	126.25	119.66
1	E	1976	ARG	CD-NE-CZ	8.89	136.84	124.40
1	G	2711	PRO	N-CA-CB	8.88	111.69	103.08
1	A	2711	PRO	N-CA-CB	8.79	111.61	103.08
1	C	330	ASP	N-CA-C	8.79	122.65	110.35
1	E	2711	PRO	N-CA-CB	8.76	111.57	103.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	330	ASP	N-CA-C	8.75	122.60	110.35
1	C	913	LEU	CA-C-N	8.75	130.77	119.84
1	C	913	LEU	C-N-CA	8.75	130.77	119.84
1	G	3208	PRO	N-CA-CB	8.75	112.79	103.52
1	C	2711	PRO	N-CA-CB	8.71	111.53	103.08
1	G	3297	PRO	N-CA-CB	8.71	113.19	103.44
1	A	913	LEU	CA-C-N	8.61	130.60	119.84
1	A	913	LEU	C-N-CA	8.61	130.60	119.84
1	G	913	LEU	CA-C-N	8.60	130.59	119.84
1	G	913	LEU	C-N-CA	8.60	130.59	119.84
1	A	330	ASP	N-CA-C	8.58	122.37	110.35
1	E	330	ASP	N-CA-C	8.56	122.34	110.35
1	E	913	LEU	CA-C-N	8.54	130.51	119.84
1	E	913	LEU	C-N-CA	8.54	130.51	119.84
1	C	3301	PRO	N-CA-CB	8.46	111.28	103.08
1	E	3301	PRO	N-CA-CB	8.42	111.25	103.08
1	A	3208	PRO	N-CA-CB	8.42	112.44	103.52
1	A	3301	PRO	N-CA-CB	8.39	111.22	103.08
1	E	3208	PRO	N-CA-CB	8.39	112.41	103.52
1	C	3208	PRO	N-CA-CB	8.31	112.33	103.52
1	E	3021	PRO	N-CA-CB	8.31	112.33	103.52
1	E	4154	VAL	CA-C-N	8.28	128.21	119.85
1	E	4154	VAL	C-N-CA	8.28	128.21	119.85
1	G	3021	PRO	N-CA-CB	8.25	112.27	103.52
1	C	4154	VAL	CA-C-N	8.22	128.16	119.85
1	C	4154	VAL	C-N-CA	8.22	128.16	119.85
1	A	3021	PRO	N-CA-CB	8.22	112.37	103.33
1	A	4666	VAL	CA-C-N	-8.14	111.34	119.56
1	A	4666	VAL	C-N-CA	-8.14	111.34	119.56
1	C	3021	PRO	N-CA-CB	8.13	112.28	103.33
1	A	4154	VAL	CA-C-N	8.13	128.06	119.85
1	A	4154	VAL	C-N-CA	8.13	128.06	119.85
1	C	4666	VAL	CA-C-N	-8.09	111.39	119.56
1	C	4666	VAL	C-N-CA	-8.09	111.39	119.56
1	E	4666	VAL	CA-C-N	-8.01	111.47	119.56
1	E	4666	VAL	C-N-CA	-8.01	111.47	119.56
1	G	4903	ASP	CA-C-N	7.92	129.74	119.84
1	G	4903	ASP	C-N-CA	7.92	129.74	119.84
1	C	3085	PRO	N-CA-CB	7.91	111.90	103.52
1	E	971	ASP	N-CA-C	7.88	127.58	110.80
1	A	4193	ILE	CB-CA-C	-7.87	102.93	111.59
1	C	4193	ILE	CB-CA-C	-7.86	102.95	111.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	3751	VAL	CB-CA-C	-7.86	101.54	112.14
1	E	4193	ILE	CB-CA-C	-7.82	102.99	111.59
1	C	4873	ASP	N-CA-C	7.80	119.50	108.74
1	A	3085	PRO	N-CA-CB	7.79	111.78	103.52
1	C	3751	VAL	CB-CA-C	-7.78	101.64	112.14
1	A	3751	VAL	CB-CA-C	-7.76	101.66	112.14
1	E	3085	PRO	N-CA-CB	7.75	111.73	103.52
1	G	3289	PRO	N-CA-CB	7.75	111.73	103.52
1	G	3427	PRO	N-CA-CB	7.72	111.49	103.00
1	A	4873	ASP	N-CA-C	7.69	119.36	108.74
1	E	4873	ASP	N-CA-C	7.68	119.34	108.74
1	E	4903	ASP	CA-C-N	7.66	129.41	119.84
1	E	4903	ASP	C-N-CA	7.66	129.41	119.84
1	G	3085	PRO	N-CA-CB	7.66	111.64	103.52
1	G	971	ASP	N-CA-C	7.64	127.08	110.80
1	E	1855	GLY	N-CA-C	-7.64	95.08	113.18
1	G	4193	ILE	CB-CA-C	-7.64	102.90	111.45
1	G	3751	VAL	CB-CA-C	-7.63	101.84	112.14
1	C	4903	ASP	CA-C-N	7.63	129.38	119.84
1	C	4903	ASP	C-N-CA	7.63	129.38	119.84
1	C	1855	GLY	N-CA-C	-7.62	95.13	113.18
1	A	2926	LEU	O-C-N	7.62	131.08	122.32
1	C	4083	ASP	CA-C-N	7.61	129.35	119.84
1	C	4083	ASP	C-N-CA	7.61	129.35	119.84
1	A	4206	GLU	N-CA-C	7.61	120.64	111.82
1	G	1855	GLY	N-CA-C	-7.60	95.17	113.18
1	A	1929	MET	CB-CG-SD	7.59	135.46	112.70
1	C	1929	MET	CB-CG-SD	7.58	135.45	112.70
1	A	4903	ASP	CA-C-N	7.58	129.31	119.84
1	A	4903	ASP	C-N-CA	7.58	129.31	119.84
1	E	4206	GLU	N-CA-C	7.58	120.61	111.82
1	A	4083	ASP	CA-C-N	7.56	129.29	119.84
1	A	4083	ASP	C-N-CA	7.56	129.29	119.84
1	C	971	ASP	N-CA-C	7.56	126.89	110.80
1	A	971	ASP	N-CA-C	7.53	126.85	110.80
1	A	1855	GLY	N-CA-C	-7.53	95.33	113.18
1	G	1561	VAL	N-CA-C	7.52	119.19	110.62
1	C	1976	ARG	CD-NE-CZ	7.49	134.89	124.40
1	E	4083	ASP	CA-C-N	7.47	129.18	119.84
1	E	4083	ASP	C-N-CA	7.47	129.18	119.84
1	G	4873	ASP	N-CA-C	7.46	119.04	108.74
1	A	1561	VAL	N-CA-C	7.44	119.10	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4206	GLU	N-CA-C	7.43	120.44	111.82
1	G	3188	PRO	N-CA-CB	7.43	111.40	103.52
1	C	1561	VAL	N-CA-C	7.42	119.08	110.62
1	G	1929	MET	CB-CG-SD	7.42	134.95	112.70
1	C	3289	PRO	N-CA-CB	7.40	111.36	103.52
1	E	1929	MET	CB-CG-SD	7.40	134.89	112.70
1	G	4083	ASP	CA-C-N	7.39	129.08	119.84
1	G	4083	ASP	C-N-CA	7.39	129.08	119.84
1	E	3289	PRO	N-CA-CB	7.38	111.35	103.52
1	G	4039	MET	CB-CG-SD	7.36	134.79	112.70
1	G	3527	PRO	N-CA-CB	7.35	111.08	103.00
1	A	3289	PRO	N-CA-CB	7.35	111.31	103.52
1	A	3275	PRO	N-CA-CB	7.29	111.26	103.39
1	E	1561	VAL	N-CA-C	7.28	118.92	110.62
1	G	3302	PRO	N-CA-CB	7.28	110.14	103.08
1	E	3275	PRO	N-CA-CB	7.25	111.22	103.39
1	A	3427	PRO	N-CA-CB	7.25	110.97	103.00
1	G	1465	ASP	N-CA-CB	-7.23	98.72	110.21
1	C	3275	PRO	N-CA-CB	7.22	111.19	103.39
1	A	1465	ASP	N-CA-CB	-7.21	98.75	110.21
1	G	3410	PRO	N-CA-CB	7.21	111.26	103.33
1	E	3427	PRO	N-CA-CB	7.20	110.92	103.00
1	C	840	VAL	N-CA-C	7.20	118.53	108.23
1	C	4980	LEU	CD1-CG-CD2	7.20	126.64	110.80
1	G	4796	MET	CG-SD-CE	7.20	116.73	100.90
1	A	3188	PRO	N-CA-CB	7.18	111.14	103.52
1	C	1465	ASP	N-CA-CB	-7.17	98.82	110.21
1	C	3427	PRO	N-CA-CB	7.16	110.88	103.00
1	E	1465	ASP	N-CA-CB	-7.16	98.83	110.21
1	A	4980	LEU	CD1-CG-CD2	7.14	126.52	110.80
1	G	840	VAL	N-CA-C	7.14	118.44	108.23
1	C	3410	PRO	N-CA-CB	7.13	111.18	103.33
1	A	840	VAL	N-CA-C	7.13	118.43	108.23
1	E	4980	LEU	CD1-CG-CD2	7.13	126.49	110.80
1	E	3188	PRO	N-CA-CB	7.13	111.08	103.52
1	G	454	PRO	N-CA-C	7.09	117.28	110.47
1	E	3410	PRO	N-CA-CB	7.09	111.12	103.33
1	A	3410	PRO	N-CA-CB	7.08	111.12	103.33
1	E	840	VAL	N-CA-C	7.08	118.35	108.23
1	C	3188	PRO	N-CA-CB	7.07	111.01	103.52
1	E	3567	PRO	N-CA-CB	7.04	110.99	103.39
1	C	3567	PRO	N-CA-CB	7.04	110.99	103.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3567	PRO	N-CA-CB	7.03	110.98	103.39
1	G	1226	PHE	N-CA-C	7.02	118.93	111.28
1	G	2701	PRO	N-CA-CB	7.02	111.30	103.44
1	C	2701	PRO	N-CA-CB	7.01	111.29	103.44
1	A	2701	PRO	N-CA-CB	6.98	111.25	103.44
1	E	2701	PRO	N-CA-CB	6.97	111.24	103.44
1	E	515	TRP	N-CA-C	6.96	118.86	111.28
1	G	3360	PRO	N-CA-CB	6.94	110.88	103.39
1	E	841	GLY	CA-C-N	6.93	128.51	119.84
1	E	841	GLY	C-N-CA	6.93	128.51	119.84
1	C	4889	VAL	CB-CA-C	-6.93	105.82	111.71
1	C	841	GLY	CA-C-N	6.93	128.50	119.84
1	C	841	GLY	C-N-CA	6.93	128.50	119.84
1	A	4889	VAL	CB-CA-C	-6.91	105.83	111.71
1	G	841	GLY	CA-C-N	6.91	128.48	119.84
1	G	841	GLY	C-N-CA	6.91	128.48	119.84
1	G	3275	PRO	N-CA-CB	6.90	110.84	103.39
1	A	841	GLY	CA-C-N	6.86	128.41	119.84
1	A	841	GLY	C-N-CA	6.86	128.41	119.84
1	G	3567	PRO	N-CA-CB	6.85	110.78	103.52
1	G	3062	PRO	N-CA-CB	6.82	110.50	103.00
1	E	1226	PHE	N-CA-C	6.79	118.68	111.28
1	C	3282	PRO	N-CA-CB	6.71	110.63	103.52
1	E	3282	PRO	N-CA-CB	6.64	110.56	103.52
1	E	4207	MET	CB-CG-SD	6.64	132.63	112.70
1	A	1022	VAL	CA-C-N	6.62	126.53	119.85
1	A	1022	VAL	C-N-CA	6.62	126.53	119.85
1	A	3282	PRO	N-CA-CB	6.60	110.52	103.52
1	C	1226	PHE	N-CA-C	6.59	118.46	111.28
1	A	4644	TRP	N-CA-C	-6.58	104.14	111.71
1	E	4859	PHE	N-CA-C	6.58	118.83	110.61
1	A	1293	LEU	CA-C-N	6.57	126.53	119.76
1	A	1293	LEU	C-N-CA	6.57	126.53	119.76
1	E	4644	TRP	N-CA-C	-6.56	104.16	111.71
1	C	4859	PHE	N-CA-C	6.55	118.80	110.61
1	C	1828	ASP	CA-C-N	6.55	128.02	119.84
1	C	1828	ASP	C-N-CA	6.55	128.02	119.84
1	C	3062	PRO	N-CA-CB	6.54	110.20	103.00
1	G	4773	VAL	N-CA-C	6.53	116.69	110.74
1	E	1828	ASP	CA-C-N	6.52	127.99	119.84
1	E	1828	ASP	C-N-CA	6.52	127.99	119.84
1	E	3062	PRO	N-CA-CB	6.52	110.17	103.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	4666	VAL	CA-C-N	-6.51	112.99	119.56
1	G	4666	VAL	C-N-CA	-6.51	112.99	119.56
1	E	3294	PRO	N-CA-CB	6.49	110.14	103.00
1	A	3294	PRO	N-CA-CB	6.49	110.14	103.00
1	G	1638	ALA	N-CA-C	6.48	118.40	108.42
1	C	1638	ALA	N-CA-C	6.48	118.40	108.42
1	A	1459	GLN	CA-C-N	-6.47	112.44	122.59
1	A	1459	GLN	C-N-CA	-6.47	112.44	122.59
1	C	4644	TRP	N-CA-C	-6.46	104.28	111.71
1	E	1638	ALA	N-CA-C	6.45	118.36	108.42
1	G	3351	PRO	N-CA-CB	6.45	110.36	103.52
1	A	3062	PRO	N-CA-CB	6.45	110.09	103.00
1	G	1828	ASP	CA-C-N	6.45	127.90	119.84
1	G	1828	ASP	C-N-CA	6.45	127.90	119.84
1	C	3294	PRO	N-CA-CB	6.44	110.09	103.00
1	E	1459	GLN	CA-C-N	-6.44	112.48	122.59
1	E	1459	GLN	C-N-CA	-6.44	112.48	122.59
1	C	1459	GLN	CA-C-N	-6.43	112.49	122.59
1	C	1459	GLN	C-N-CA	-6.43	112.49	122.59
1	E	3138	PRO	N-CA-CB	6.42	110.32	103.52
1	G	1459	GLN	CA-C-N	-6.41	112.52	122.59
1	G	1459	GLN	C-N-CA	-6.41	112.52	122.59
1	A	453	GLU	CA-C-N	6.41	126.98	120.38
1	A	453	GLU	C-N-CA	6.41	126.98	120.38
1	C	5017	ARG	N-CA-C	6.41	120.44	112.24
1	C	3138	PRO	N-CA-CB	6.41	110.31	103.52
1	G	4206	GLU	N-CA-C	6.41	120.36	112.54
1	C	32	GLN	N-CA-CB	-6.41	101.72	110.95
1	A	1226	PHE	N-CA-C	6.39	118.25	111.28
1	A	32	GLN	N-CA-CB	-6.39	101.75	110.95
1	G	3282	PRO	N-CA-CB	6.39	110.60	103.44
1	E	5017	ARG	N-CA-C	6.38	120.41	112.24
1	G	1022	VAL	CA-C-N	6.38	126.29	119.85
1	G	1022	VAL	C-N-CA	6.38	126.29	119.85
1	A	1976	ARG	CD-NE-CZ	6.37	133.32	124.40
1	C	3360	PRO	N-CA-CB	6.37	110.28	103.52
1	A	1638	ALA	N-CA-C	6.36	118.22	108.42
1	G	32	GLN	N-CA-CB	-6.36	101.79	110.95
1	A	2631	PRO	N-CA-CB	6.36	110.26	103.52
1	G	4207	MET	CB-CG-SD	6.36	131.78	112.70
1	G	515	TRP	N-CA-C	6.35	119.02	111.71
1	C	2631	PRO	N-CA-CB	6.35	110.25	103.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	32	GLN	N-CA-CB	-6.35	101.81	110.95
1	A	1828	ASP	CA-C-N	6.34	127.77	119.84
1	A	1828	ASP	C-N-CA	6.34	127.77	119.84
1	A	4207	MET	CB-CG-SD	6.34	131.73	112.70
1	A	5017	ARG	N-CA-C	6.33	120.35	112.24
1	G	648	ILE	N-CA-C	6.33	117.92	108.23
1	A	3360	PRO	N-CA-CB	6.32	110.21	103.52
1	E	3360	PRO	N-CA-CB	6.31	110.21	103.52
1	A	4859	PHE	N-CA-C	6.31	118.49	110.61
1	E	453	GLU	CA-C-N	6.30	126.87	120.38
1	E	453	GLU	C-N-CA	6.30	126.87	120.38
1	A	2115	GLU	N-CA-CB	-6.27	100.90	110.12
1	A	3138	PRO	N-CA-CB	6.27	110.16	103.52
1	C	515	TRP	N-CA-C	6.27	118.92	111.71
1	E	2631	PRO	N-CA-CB	6.27	110.16	103.52
1	G	703	GLY	N-CA-C	6.26	119.02	110.69
1	E	703	GLY	N-CA-C	6.26	119.02	110.69
1	E	1022	VAL	CA-C-N	6.26	126.17	119.85
1	E	1022	VAL	C-N-CA	6.26	126.17	119.85
1	G	3294	PRO	N-CA-CB	6.25	109.87	103.00
1	G	2631	PRO	N-CA-CB	6.25	110.14	103.52
1	G	484	LEU	N-CA-CB	-6.24	100.69	110.06
1	C	1589	PRO	N-CA-C	6.24	125.32	112.47
1	A	1589	PRO	N-CA-C	6.23	125.31	112.47
1	A	703	GLY	N-CA-C	6.23	118.97	110.69
1	E	1589	PRO	N-CA-C	6.22	125.29	112.47
1	G	1589	PRO	N-CA-C	6.21	125.27	112.47
1	A	515	TRP	N-CA-C	6.21	118.85	111.71
1	C	842	PRO	N-CA-C	6.21	125.26	112.47
1	C	4207	MET	CB-CG-SD	6.20	131.31	112.70
1	E	2115	GLU	N-CA-CB	-6.20	101.00	110.12
1	C	648	ILE	N-CA-C	6.20	117.71	108.23
1	G	4639	MET	N-CA-C	6.20	117.70	111.07
1	E	484	LEU	N-CA-CB	-6.20	100.77	110.06
1	G	842	PRO	N-CA-C	6.20	125.23	112.47
1	C	484	LEU	N-CA-CB	-6.19	100.77	110.06
1	C	703	GLY	N-CA-C	6.18	118.92	110.69
1	C	2115	GLU	N-CA-CB	-6.18	101.03	110.12
1	A	3351	PRO	N-CA-CB	6.18	110.07	103.52
1	A	1976	ARG	NE-CZ-NH2	6.18	124.76	119.20
1	E	842	PRO	N-CA-C	6.17	125.17	112.47
1	G	2115	GLU	N-CA-CB	-6.17	101.05	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1293	LEU	CA-C-N	6.17	126.11	119.76
1	C	1293	LEU	C-N-CA	6.17	126.11	119.76
1	G	4644	TRP	N-CA-C	-6.16	104.63	111.71
1	A	484	LEU	N-CA-CB	-6.15	100.83	110.06
1	G	66	CYS	CA-CB-SG	6.15	128.55	114.40
1	E	3302	PRO	N-CA-CB	6.14	109.04	103.08
1	G	1140	GLY	N-CA-C	6.14	122.07	112.31
1	C	3302	PRO	N-CA-CB	6.14	109.03	103.08
1	G	805	PRO	CA-C-N	6.14	127.51	119.84
1	G	805	PRO	C-N-CA	6.14	127.51	119.84
1	C	713	SER	N-CA-C	6.13	118.10	108.96
1	A	2128	TYR	N-CA-C	6.13	120.60	113.18
1	A	3302	PRO	N-CA-CB	6.13	109.03	103.08
1	C	1140	GLY	N-CA-C	6.13	122.05	112.31
1	G	3907	THR	N-CA-C	6.12	118.92	111.82
1	C	66	CYS	CA-CB-SG	6.11	128.45	114.40
1	G	181	HIS	N-CA-C	6.11	118.41	108.76
1	E	2128	TYR	N-CA-C	6.11	120.57	113.18
1	G	1293	LEU	CA-C-N	6.10	126.04	119.76
1	G	1293	LEU	C-N-CA	6.10	126.04	119.76
1	A	181	HIS	N-CA-C	6.09	118.39	108.76
1	G	713	SER	N-CA-C	6.09	118.03	108.96
1	E	181	HIS	N-CA-C	6.09	118.38	108.76
1	E	713	SER	N-CA-C	6.09	118.03	108.96
1	A	66	CYS	CA-CB-SG	6.08	128.38	114.40
1	A	713	SER	N-CA-C	6.07	118.01	108.96
1	E	1140	GLY	N-CA-C	6.07	121.97	112.31
1	C	1022	VAL	CA-C-N	6.07	125.97	119.85
1	C	1022	VAL	C-N-CA	6.07	125.97	119.85
1	C	181	HIS	N-CA-C	6.06	118.34	108.76
1	A	2658	PRO	N-CA-CB	6.05	109.94	103.52
1	C	4171	LEU	CA-C-O	6.05	125.65	118.69
1	A	842	PRO	N-CA-C	6.05	124.93	112.47
1	C	3351	PRO	N-CA-CB	6.03	109.92	103.52
1	E	648	ILE	N-CA-C	6.02	117.44	108.23
1	E	805	PRO	CA-C-N	6.01	127.36	119.84
1	E	805	PRO	C-N-CA	6.01	127.36	119.84
1	E	4225	GLY	N-CA-C	6.01	122.11	114.66
1	C	2128	TYR	N-CA-C	6.01	120.45	113.18
1	E	66	CYS	CA-CB-SG	6.01	128.22	114.40
1	G	2658	PRO	N-CA-CB	6.01	109.89	103.52
1	A	648	ILE	N-CA-C	5.97	117.36	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1748	PHE	N-CA-C	5.97	118.27	109.50
1	C	453	GLU	CA-C-N	5.96	126.52	120.38
1	C	453	GLU	C-N-CA	5.96	126.52	120.38
1	C	2234	ARG	NE-CZ-NH2	5.96	124.56	119.20
1	A	4965	SER	CA-C-N	5.96	128.19	120.44
1	A	4965	SER	C-N-CA	5.96	128.19	120.44
1	E	3351	PRO	N-CA-CB	5.96	109.83	103.52
1	G	4965	SER	CA-C-N	5.96	128.18	120.44
1	G	4965	SER	C-N-CA	5.96	128.18	120.44
1	C	2658	PRO	N-CA-CB	5.95	109.82	103.52
1	E	2658	PRO	N-CA-CB	5.95	109.82	103.52
1	E	1293	LEU	CA-C-N	5.95	125.88	119.76
1	E	1293	LEU	C-N-CA	5.95	125.88	119.76
1	E	4171	LEU	CA-C-O	5.94	125.52	118.69
1	E	4965	SER	CA-C-N	5.94	128.16	120.44
1	E	4965	SER	C-N-CA	5.94	128.16	120.44
1	A	1140	GLY	N-CA-C	5.93	121.74	112.31
1	A	4171	LEU	CA-C-O	5.93	125.51	118.69
1	A	805	PRO	CA-C-N	5.92	127.25	119.84
1	A	805	PRO	C-N-CA	5.92	127.25	119.84
1	C	805	PRO	CA-C-N	5.92	127.25	119.84
1	C	805	PRO	C-N-CA	5.92	127.25	119.84
1	C	4965	SER	CA-C-N	5.92	128.13	120.44
1	C	4965	SER	C-N-CA	5.92	128.13	120.44
1	G	2712	PRO	N-CA-CB	5.91	109.50	103.00
1	G	1252	HIS	N-CA-C	-5.91	101.53	110.39
1	G	4154	VAL	CA-C-N	5.90	125.81	119.85
1	G	4154	VAL	C-N-CA	5.90	125.81	119.85
1	G	4171	LEU	CA-C-O	5.90	125.47	118.69
1	E	2234	ARG	NE-CZ-NH2	5.89	124.50	119.20
1	E	4215	ARG	CB-CA-C	-5.89	100.83	110.85
1	G	59	PRO	CA-C-N	5.89	127.20	119.84
1	G	59	PRO	C-N-CA	5.89	127.20	119.84
1	G	343	GLU	N-CA-C	5.89	117.70	111.28
1	C	1748	PHE	N-CA-C	5.88	118.14	109.50
1	A	4215	ARG	CB-CA-C	-5.87	100.87	110.85
1	C	4225	GLY	N-CA-C	5.87	121.94	114.66
1	G	2271	THR	CA-C-N	5.86	125.72	119.28
1	G	2271	THR	C-N-CA	5.86	125.72	119.28
1	A	2234	ARG	NE-CZ-NH2	5.86	124.47	119.20
1	C	1260	MET	N-CA-C	5.84	117.02	108.14
1	E	59	PRO	CA-C-N	5.84	127.14	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	59	PRO	C-N-CA	5.84	127.14	119.84
1	A	2271	THR	CA-C-N	5.84	125.70	119.28
1	A	2271	THR	C-N-CA	5.84	125.70	119.28
1	C	1252	HIS	N-CA-C	-5.84	101.63	110.39
1	E	1748	PHE	N-CA-C	5.84	118.08	109.50
1	E	4911	LEU	N-CA-C	-5.84	105.00	111.36
1	C	59	PRO	CA-C-N	5.84	127.14	119.84
1	C	59	PRO	C-N-CA	5.84	127.14	119.84
1	E	2546	MET	CB-CG-SD	5.83	130.19	112.70
1	E	4907	ASP	N-CA-C	5.83	115.71	108.19
1	A	4911	LEU	N-CA-C	-5.82	105.01	111.36
2	H	92	PRO	O-C-N	5.82	123.89	121.15
1	A	2926	LEU	CA-C-O	5.82	127.60	120.56
1	C	1463	ASN	N-CA-C	5.82	119.27	111.24
1	E	1260	MET	N-CA-C	5.82	116.98	108.14
1	C	1453	VAL	N-CA-C	5.81	117.57	109.55
1	A	1463	ASN	N-CA-C	5.81	119.26	111.24
1	C	2616	PRO	N-CA-CB	5.81	109.66	103.39
1	C	2271	THR	CA-C-N	5.80	125.67	119.28
1	C	2271	THR	C-N-CA	5.80	125.67	119.28
1	C	1249	PRO	CA-C-N	-5.80	113.99	119.85
1	C	1249	PRO	C-N-CA	-5.80	113.99	119.85
1	G	2234	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	A	2616	PRO	N-CA-CB	5.79	109.64	103.39
1	E	903	LEU	N-CA-C	5.79	116.88	107.32
1	E	1453	VAL	N-CA-C	5.79	117.54	109.55
1	E	843	SER	CB-CA-C	-5.79	109.88	116.54
1	A	59	PRO	CA-C-N	5.78	127.06	119.84
1	A	59	PRO	C-N-CA	5.78	127.06	119.84
1	E	1249	PRO	CA-C-N	-5.78	114.01	119.85
1	E	1249	PRO	C-N-CA	-5.78	114.01	119.85
1	A	843	SER	CB-CA-C	-5.77	109.91	116.54
1	A	1252	HIS	N-CA-C	-5.77	101.74	110.39
1	A	1249	PRO	CA-C-N	-5.76	114.03	119.85
1	A	1249	PRO	C-N-CA	-5.76	114.03	119.85
1	G	2616	PRO	N-CA-CB	5.76	109.62	103.39
1	G	3564	GLU	N-CA-C	-5.76	105.13	111.82
1	E	4880	MET	CG-SD-CE	5.76	113.58	100.90
1	G	2128	TYR	N-CA-C	5.76	120.03	112.89
1	E	2858	GLN	CA-C-N	5.76	126.31	120.38
1	E	2858	GLN	C-N-CA	5.76	126.31	120.38
1	A	1260	MET	N-CA-C	5.76	116.89	108.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	80	GLU	CB-CG-CD	5.75	122.38	112.60
1	E	2271	THR	CA-C-N	5.75	125.61	119.28
1	E	2271	THR	C-N-CA	5.75	125.61	119.28
1	G	1463	ASN	N-CA-C	5.75	119.17	111.24
1	A	4225	GLY	N-CA-C	5.75	121.79	114.66
1	E	1252	HIS	N-CA-C	-5.74	101.77	110.39
1	E	2109	ASP	N-CA-C	5.73	123.01	110.80
2	D	92	PRO	O-C-N	5.73	123.84	121.15
1	G	1260	MET	N-CA-C	5.73	116.85	108.14
1	C	4215	ARG	CB-CA-C	-5.73	101.11	110.85
1	E	1463	ASN	N-CA-C	5.72	119.13	111.24
1	A	2109	ASP	N-CA-C	5.71	122.97	110.80
1	C	4044	MET	CB-CG-SD	-5.71	95.56	112.70
1	A	2858	GLN	CA-C-N	5.71	126.26	120.38
1	A	2858	GLN	C-N-CA	5.71	126.26	120.38
1	G	2546	MET	CB-CG-SD	5.71	129.84	112.70
1	A	4044	MET	CB-CG-SD	-5.71	95.57	112.70
1	G	1453	VAL	N-CA-C	5.71	117.43	109.55
2	B	92	PRO	O-C-N	5.71	123.83	121.15
1	E	217	GLY	N-CA-C	-5.70	106.12	114.90
1	A	1748	PHE	N-CA-C	5.70	117.88	109.50
1	A	217	GLY	N-CA-C	-5.70	106.13	114.90
1	C	4911	LEU	N-CA-C	-5.70	105.15	111.36
1	E	2616	PRO	N-CA-CB	5.70	109.54	103.39
1	G	454	PRO	O-C-N	5.69	123.93	121.31
1	E	4039	MET	CB-CG-SD	5.69	129.76	112.70
1	C	843	SER	CB-CA-C	-5.68	110.00	116.54
1	G	5017	ARG	N-CA-C	5.68	119.52	112.24
1	A	1453	VAL	N-CA-C	5.68	117.39	109.55
1	C	1028	ASP	N-CA-C	5.68	119.31	112.38
2	F	92	PRO	O-C-N	5.68	123.82	121.15
1	E	3907	THR	N-CA-C	5.68	118.41	111.82
1	A	903	LEU	N-CA-C	5.68	116.69	107.32
1	C	2546	MET	CB-CG-SD	5.67	129.72	112.70
1	G	1028	ASP	N-CA-C	5.67	119.30	112.38
1	A	343	GLU	N-CA-C	5.67	117.46	111.28
1	E	343	GLU	N-CA-C	5.67	117.46	111.28
1	G	843	SER	CB-CA-C	-5.67	110.02	116.54
1	A	3907	THR	N-CA-C	5.67	118.39	111.82
1	C	903	LEU	N-CA-C	5.67	116.67	107.32
1	C	3527	PRO	N-CA-CB	5.67	109.23	103.00
1	C	2858	GLN	CA-C-N	5.67	126.22	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2858	GLN	C-N-CA	5.67	126.22	120.38
1	E	3527	PRO	N-CA-CB	5.66	109.23	103.00
1	E	2712	PRO	N-CA-CB	5.66	109.22	103.00
1	E	4044	MET	CB-CG-SD	-5.65	95.74	112.70
1	A	4655	PHE	N-CA-C	-5.65	105.12	111.28
1	A	1285	GLU	N-CA-C	5.65	118.64	110.28
1	A	3527	PRO	N-CA-CB	5.65	109.21	103.00
1	G	217	GLY	N-CA-C	-5.63	106.22	114.90
1	A	2546	MET	CB-CG-SD	5.62	129.57	112.70
1	C	1285	GLU	N-CA-C	5.61	118.58	110.28
1	G	1285	GLU	N-CA-C	5.61	118.59	110.28
1	E	4976	GLU	N-CA-CB	5.61	118.85	110.22
1	A	2712	PRO	N-CA-CB	5.60	109.16	103.00
1	G	903	LEU	N-CA-C	5.60	116.57	107.32
1	A	1028	ASP	N-CA-C	5.60	119.22	112.38
1	G	1799	SER	CA-C-N	5.60	125.53	119.76
1	G	1799	SER	C-N-CA	5.60	125.53	119.76
1	G	4808	PHE	N-CA-C	-5.59	105.72	112.54
1	G	3519	PRO	N-CA-CB	5.59	109.44	103.52
1	A	3359	ILE	O-C-N	5.58	124.03	120.07
1	A	4639	MET	N-CA-C	5.58	117.04	111.07
1	E	3358	PHE	CA-C-N	5.58	123.75	120.24
1	E	3358	PHE	C-N-CA	5.58	123.75	120.24
1	E	630	GLU	N-CA-C	5.58	118.13	111.71
1	A	3804	ILE	N-CA-C	5.58	116.60	111.81
1	A	4039	MET	CB-CG-SD	5.58	129.43	112.70
1	A	4976	GLU	N-CA-CB	5.57	118.80	110.22
1	G	2858	GLN	CA-C-N	5.57	126.12	120.38
1	G	2858	GLN	C-N-CA	5.57	126.12	120.38
1	A	4907	ASP	N-CA-C	5.57	115.92	108.23
1	G	4907	ASP	N-CA-C	5.57	115.37	108.19
1	C	4976	GLU	N-CA-CB	5.57	118.79	110.22
1	G	1249	PRO	CA-C-N	-5.57	114.23	119.85
1	G	1249	PRO	C-N-CA	-5.57	114.23	119.85
1	C	217	GLY	N-CA-C	-5.56	106.34	114.90
1	E	778	PHE	CA-C-N	5.55	125.46	119.85
1	E	778	PHE	C-N-CA	5.55	125.46	119.85
1	E	1799	SER	CA-C-N	5.55	125.48	119.76
1	E	1799	SER	C-N-CA	5.55	125.48	119.76
1	E	4639	MET	N-CA-C	5.55	117.01	111.07
1	C	2712	PRO	N-CA-CB	5.54	109.10	103.00
1	C	4655	PHE	N-CA-C	-5.54	105.24	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1285	GLU	N-CA-C	5.54	118.48	110.28
1	C	630	GLU	N-CA-C	5.54	118.08	111.71
1	E	1976	ARG	CG-CD-NE	5.53	124.16	112.00
1	C	343	GLU	N-CA-C	5.53	117.30	111.28
1	G	630	GLU	N-CA-C	5.53	118.23	111.82
1	E	1028	ASP	N-CA-C	5.52	119.12	112.38
1	C	3907	THR	N-CA-C	5.51	118.21	111.82
1	E	3985	LEU	N-CA-C	5.51	118.05	111.71
1	E	4880	MET	CB-CG-SD	5.51	129.22	112.70
1	A	1799	SER	CA-C-N	5.50	125.43	119.76
1	A	1799	SER	C-N-CA	5.50	125.43	119.76
1	C	454	PRO	N-CA-C	5.50	117.41	110.70
1	A	3358	PHE	CA-C-N	5.49	123.70	120.24
1	A	3358	PHE	C-N-CA	5.49	123.70	120.24
1	C	4966	ASP	N-CA-CB	-5.49	102.05	110.01
1	E	4697	VAL	N-CA-C	5.49	116.88	110.62
1	A	3519	PRO	N-CA-CB	5.49	109.33	103.52
1	C	1976	ARG	NE-CZ-NH2	5.48	124.14	119.20
1	E	3804	ILE	N-CA-C	5.48	116.53	111.81
1	A	4905	ALA	N-CA-C	-5.48	99.13	110.80
1	C	3358	PHE	CA-C-N	5.48	123.69	120.24
1	C	3358	PHE	C-N-CA	5.48	123.69	120.24
1	E	4655	PHE	N-CA-C	-5.48	105.31	111.28
1	C	3359	ILE	O-C-N	5.48	123.96	120.07
1	G	2788	HIS	CA-C-N	5.47	125.30	119.28
1	G	2788	HIS	C-N-CA	5.47	125.30	119.28
1	C	3519	PRO	N-CA-CB	5.46	109.31	103.52
1	E	968	ALA	CA-C-N	5.46	125.47	119.90
1	E	968	ALA	C-N-CA	5.46	125.47	119.90
1	C	3985	LEU	N-CA-C	5.46	117.99	111.71
1	C	1799	SER	CA-C-N	5.45	125.38	119.76
1	C	1799	SER	C-N-CA	5.45	125.38	119.76
1	E	3519	PRO	N-CA-CB	5.45	109.30	103.52
1	G	4905	ALA	N-CA-C	-5.45	99.19	110.80
1	E	3359	ILE	O-C-N	5.44	123.93	120.07
1	E	4905	ALA	N-CA-C	-5.44	99.22	110.80
1	C	4905	ALA	N-CA-C	-5.43	99.23	110.80
1	C	4697	VAL	N-CA-C	5.43	116.81	110.62
1	E	2529	ASP	N-CA-CB	5.42	118.57	110.22
1	C	4039	MET	CB-CG-SD	5.41	128.94	112.70
1	A	630	GLU	N-CA-C	5.41	118.09	111.82
1	C	778	PHE	CA-C-N	5.40	125.30	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	778	PHE	C-N-CA	5.40	125.30	119.85
1	G	4771	ILE	N-CA-C	5.39	120.56	109.34
1	A	2095	GLN	N-CA-CB	-5.38	101.94	110.28
1	G	803	LEU	CA-C-N	5.38	123.53	119.66
1	G	803	LEU	C-N-CA	5.38	123.53	119.66
1	C	2788	HIS	CA-C-N	5.38	125.20	119.28
1	C	2788	HIS	C-N-CA	5.38	125.20	119.28
1	A	5012	LYS	CA-CB-CG	-5.38	103.34	114.10
1	A	4966	ASP	N-CA-CB	-5.37	102.22	110.01
1	G	2529	ASP	N-CA-CB	5.37	118.60	110.28
1	C	4880	MET	CG-SD-CE	5.37	112.70	100.90
1	C	2424	SER	N-CA-C	-5.36	106.74	113.28
1	G	3138	PRO	N-CA-CB	5.36	108.65	103.51
1	A	4202	ARG	NE-CZ-NH2	5.35	124.01	119.20
1	E	5012	LYS	CA-CB-CG	-5.34	103.42	114.10
1	A	1106	ARG	CA-C-N	5.34	125.15	119.28
1	A	1106	ARG	C-N-CA	5.34	125.15	119.28
1	C	4907	ASP	N-CA-C	5.34	115.60	108.23
1	E	1700	ASP	N-CA-C	5.34	117.61	110.35
1	C	4980	LEU	CB-CG-CD2	-5.33	94.70	110.70
1	C	2109	ASP	N-CA-C	5.33	122.16	110.80
1	C	3664	THR	N-CA-C	5.33	117.57	110.53
1	C	4639	MET	N-CA-C	5.33	116.77	111.07
1	E	4966	ASP	N-CA-CB	-5.33	102.28	110.01
1	G	735	GLN	O-C-N	5.32	124.77	120.83
1	A	4980	LEU	CB-CG-CD2	-5.31	94.76	110.70
1	C	1554	VAL	N-CA-C	5.31	116.43	109.58
1	A	1554	VAL	N-CA-C	5.31	116.43	109.58
1	A	852	VAL	N-CA-C	5.31	120.34	108.88
1	A	2529	ASP	N-CA-CB	5.31	118.50	110.28
1	C	852	VAL	N-CA-C	5.31	120.34	108.88
1	C	3665	GLU	N-CA-C	5.30	118.54	111.75
1	E	4826	ILE	CB-CA-C	-5.30	105.07	112.02
1	E	4980	LEU	CB-CG-CD2	-5.30	94.80	110.70
1	G	852	VAL	N-CA-C	5.30	120.33	108.88
1	G	4966	ASP	N-CA-CB	-5.30	102.33	110.01
1	E	2503	VAL	CB-CA-C	-5.30	105.19	111.97
1	E	2095	GLN	N-CA-CB	-5.30	102.07	110.28
1	E	1554	VAL	N-CA-C	5.29	116.41	109.58
1	E	2424	SER	N-CA-C	-5.29	106.82	113.28
1	G	80	GLU	CB-CG-CD	5.29	121.60	112.60
1	G	2109	ASP	N-CA-C	5.29	122.08	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	80	GLU	OE1-CD-OE2	-5.29	110.20	122.90
1	A	3985	LEU	N-CA-C	5.29	117.79	111.71
1	E	3138	PRO	N-CA-C	-5.29	106.64	113.57
1	G	4859	PHE	N-CA-C	5.28	118.79	111.71
1	G	1554	VAL	N-CA-C	5.28	116.39	109.58
1	A	2503	VAL	CB-CA-C	-5.28	105.22	111.97
1	C	2529	ASP	N-CA-CB	5.28	118.46	110.28
1	A	1700	ASP	N-CA-C	5.27	117.52	110.35
1	A	3138	PRO	N-CA-C	-5.27	106.67	113.57
1	G	4559	PHE	N-CA-C	5.27	117.02	111.28
1	A	3359	ILE	N-CA-CB	5.26	113.81	110.50
1	A	2058	SER	N-CA-C	5.25	117.75	111.71
1	C	2095	GLN	N-CA-CB	-5.25	102.14	110.28
1	G	2424	SER	N-CA-C	-5.25	106.88	113.28
1	G	2279	SER	CA-C-N	-5.24	117.57	122.66
1	G	2279	SER	C-N-CA	-5.24	117.57	122.66
1	C	4826	ILE	CB-CA-C	-5.24	105.16	112.02
1	E	2058	SER	N-CA-C	5.24	117.73	111.71
1	C	1700	ASP	N-CA-C	5.23	117.47	110.35
1	G	1867	GLU	CA-C-N	5.23	126.38	119.84
1	G	1867	GLU	C-N-CA	5.23	126.38	119.84
1	C	1549	PHE	CA-C-N	5.23	126.37	119.84
1	C	1549	PHE	C-N-CA	5.23	126.37	119.84
1	A	1867	GLU	CA-C-N	5.22	126.37	119.84
1	A	1867	GLU	C-N-CA	5.22	126.37	119.84
1	C	3729	MET	CB-CG-SD	-5.22	97.02	112.70
1	C	4717	ASP	N-CA-C	-5.22	104.19	110.88
1	E	4717	ASP	N-CA-C	-5.22	104.19	110.88
1	C	3138	PRO	N-CA-C	-5.22	106.74	113.57
1	C	3804	ILE	N-CA-C	5.22	116.30	111.81
1	E	4576	ILE	N-CA-C	-5.21	106.80	112.80
1	E	3359	ILE	N-CA-CB	5.21	113.78	110.50
1	A	3729	MET	CB-CG-SD	-5.20	97.09	112.70
1	E	1867	GLU	CA-C-N	5.20	126.34	119.84
1	E	1867	GLU	C-N-CA	5.20	126.34	119.84
1	G	778	PHE	CA-C-N	5.20	125.10	119.85
1	G	778	PHE	C-N-CA	5.20	125.10	119.85
1	A	3664	THR	N-CA-C	5.20	117.39	110.53
1	C	5012	LYS	CA-CB-CG	-5.20	103.70	114.10
1	E	3664	THR	N-CA-C	5.20	117.39	110.53
1	A	2424	SER	N-CA-C	-5.20	106.94	113.28
1	C	1631	GLN	CB-CA-C	-5.20	108.89	116.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	5012	LYS	CA-CB-CG	-5.20	103.71	114.10
1	G	1943	LEU	N-CA-CB	-5.19	102.23	110.28
1	E	852	VAL	N-CA-C	5.19	120.10	108.88
1	C	2058	SER	N-CA-C	5.19	117.68	111.71
1	C	1867	GLU	CA-C-N	5.19	126.32	119.84
1	C	1867	GLU	C-N-CA	5.19	126.32	119.84
1	C	3359	ILE	N-CA-CB	5.19	113.77	110.50
1	A	4717	ASP	N-CA-C	-5.18	104.25	110.88
1	E	1943	LEU	N-CA-CB	-5.18	102.25	110.28
1	A	778	PHE	CA-C-N	5.18	125.08	119.85
1	A	778	PHE	C-N-CA	5.18	125.08	119.85
1	G	1436	SER	N-CA-C	5.18	117.86	109.06
1	E	2788	HIS	CA-C-N	5.17	124.97	119.28
1	E	2788	HIS	C-N-CA	5.17	124.97	119.28
1	C	1943	LEU	N-CA-CB	-5.17	102.26	110.28
1	E	1106	ARG	CA-C-N	5.16	124.96	119.28
1	E	1106	ARG	C-N-CA	5.16	124.96	119.28
1	A	1631	GLN	CB-CA-C	-5.16	108.95	116.53
1	A	4826	ILE	CB-CA-C	-5.16	105.26	112.02
1	G	1549	PHE	CA-C-N	5.16	126.28	119.84
1	G	1549	PHE	C-N-CA	5.16	126.28	119.84
1	A	2788	HIS	CA-C-N	5.15	124.95	119.28
1	A	2788	HIS	C-N-CA	5.15	124.95	119.28
1	C	80	GLU	CB-CG-CD	5.15	121.36	112.60
1	C	1436	SER	N-CA-C	5.15	117.82	109.06
1	G	1631	GLN	CB-CA-C	-5.15	108.96	116.53
1	C	331	VAL	N-CA-C	5.15	111.72	106.21
1	E	80	GLU	CB-CG-CD	5.14	121.34	112.60
1	C	895	PRO	N-CA-C	5.14	123.06	112.47
1	C	4202	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	A	2280	VAL	CB-CA-C	-5.14	106.37	111.30
1	E	3665	GLU	N-CA-C	5.14	118.33	111.75
1	C	2503	VAL	CB-CA-C	-5.14	105.39	111.97
1	G	2503	VAL	CB-CA-C	-5.14	105.39	111.97
1	A	1943	LEU	N-CA-CB	-5.13	102.32	110.28
1	C	1106	ARG	CA-C-N	5.13	124.93	119.28
1	C	1106	ARG	C-N-CA	5.13	124.93	119.28
1	C	2279	SER	CA-C-N	-5.13	117.68	122.66
1	C	2279	SER	C-N-CA	-5.13	117.68	122.66
1	E	1631	GLN	CB-CA-C	-5.13	108.98	116.53
1	E	4790	LEU	N-CA-CB	5.13	118.12	110.22
1	G	2644	LEU	N-CA-C	-5.13	105.69	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	331	VAL	N-CA-C	5.13	111.69	106.21
1	C	4790	LEU	N-CA-CB	5.13	118.12	110.22
1	G	966	LYS	N-CA-C	5.13	117.96	108.94
1	E	3729	MET	CB-CG-SD	-5.12	97.33	112.70
1	E	4202	ARG	NE-CZ-NH2	5.12	123.81	119.20
1	A	1549	PHE	CA-C-N	5.12	126.24	119.84
1	A	1549	PHE	C-N-CA	5.12	126.24	119.84
1	G	1976	ARG	CG-CD-NE	5.12	123.27	112.00
1	A	966	LYS	N-CA-C	5.12	117.95	108.94
1	A	4790	LEU	N-CA-CB	5.12	118.10	110.22
1	E	4573	ILE	CB-CG1-CD1	5.12	124.55	113.80
1	G	4112	LEU	CB-CG-CD2	-5.12	95.35	110.70
1	G	4717	ASP	N-CA-C	-5.12	104.30	110.44
1	G	895	PRO	N-CA-C	5.11	123.00	112.47
1	G	331	VAL	N-CA-C	5.11	111.68	106.21
1	E	4820	VAL	N-CA-C	5.11	119.97	109.34
1	G	2095	GLN	N-CA-CB	-5.10	102.37	110.28
1	C	2137	ALA	N-CA-C	5.10	117.74	111.82
1	E	1436	SER	N-CA-C	5.10	117.73	109.06
1	E	2280	VAL	CB-CA-C	-5.10	106.40	111.30
1	A	2644	LEU	N-CA-C	-5.10	105.72	111.28
1	A	3665	GLU	N-CA-C	5.10	118.27	111.75
1	G	386	ASP	N-CA-C	-5.10	105.85	111.71
1	C	966	LYS	N-CA-C	5.10	117.91	108.94
1	C	386	ASP	N-CA-C	-5.09	105.85	111.71
1	E	2644	LEU	N-CA-C	-5.09	105.86	111.71
1	E	1549	PHE	CA-C-N	5.09	126.20	119.84
1	E	1549	PHE	C-N-CA	5.09	126.20	119.84
1	G	2280	VAL	CB-CA-C	-5.08	106.42	111.30
1	G	2914	LYS	CD-CE-NZ	5.08	128.17	111.90
1	A	2178	MET	CB-CG-SD	-5.08	97.45	112.70
1	E	3732	SER	CA-C-O	-5.08	116.94	121.67
1	A	453	GLU	CB-CA-C	-5.08	102.09	109.97
1	G	735	GLN	N-CA-C	5.08	116.22	108.30
1	C	2280	VAL	CB-CA-C	-5.08	106.43	111.30
1	G	1700	ASP	N-CA-C	5.07	117.58	110.23
1	G	1106	ARG	CA-C-N	5.07	124.86	119.28
1	G	1106	ARG	C-N-CA	5.07	124.86	119.28
1	A	1436	SER	N-CA-C	5.07	117.67	109.06
1	A	2137	ALA	N-CA-C	5.06	117.69	111.82
1	C	1088	TRP	N-CA-C	5.06	115.67	107.23
1	A	1088	TRP	N-CA-C	5.05	115.67	107.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	203	ASN	CA-C-N	5.05	124.98	119.78
1	C	203	ASN	C-N-CA	5.05	124.98	119.78
1	E	2178	MET	CB-CG-SD	-5.05	97.56	112.70
1	C	2178	MET	CB-CG-SD	-5.05	97.56	112.70
1	E	1088	TRP	N-CA-C	5.04	115.66	107.23
1	A	4909	TYR	CE1-CZ-OH	5.04	135.02	119.90
1	C	280	LEU	N-CA-C	5.04	116.71	108.55
1	A	2279	SER	CA-C-N	-5.04	117.77	122.66
1	A	2279	SER	C-N-CA	-5.04	117.77	122.66
1	G	1783	VAL	N-CA-C	5.04	119.82	109.34
1	G	4790	LEU	N-CA-CB	5.04	117.97	110.22
1	A	3732	SER	CA-C-O	-5.03	116.99	121.67
1	C	4771	ILE	N-CA-C	5.03	119.80	109.34
1	A	3081	MET	N-CA-C	-5.03	106.41	112.54
2	B	105	LYS	N-CA-C	5.03	116.69	108.55
1	G	4140	GLY	N-CA-C	-5.02	106.32	113.86
1	E	4771	ILE	N-CA-C	5.01	119.77	109.34
1	E	4927	ILE	N-CA-C	5.01	115.68	110.82
1	E	4559	PHE	N-CA-C	5.01	117.47	111.71
1	E	280	LEU	N-CA-C	5.01	116.66	108.55
1	G	280	LEU	N-CA-C	5.01	116.66	108.55
1	E	454	PRO	N-CA-C	5.00	116.81	110.70
1	E	2279	SER	CA-C-N	-5.00	117.81	122.66
1	E	2279	SER	C-N-CA	-5.00	117.81	122.66

There are no chirality outliers.

All (141) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1100	MET	Peptide
1	A	1251	GLU	Peptide
1	A	1253	PRO	Peptide
1	A	1464	PHE	Peptide
1	A	1588	ALA	Mainchain,Peptide
1	A	1748	PHE	Peptide
1	A	1828	ASP	Mainchain,Peptide
1	A	1854	PHE	Mainchain,Peptide
1	A	1855	GLY	Peptide
1	A	1856	ASP	Mainchain,Peptide
1	A	1867	GLU	Mainchain,Peptide
1	A	1932	PRO	Peptide
1	A	2567	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	A	31	GLU	Mainchain,Peptide
1	A	329	ARG	Mainchain,Peptide
1	A	4819	GLY	Mainchain,Peptide
1	A	4903	ASP	Mainchain,Peptide
1	A	4904	PRO	Mainchain,Peptide
1	A	4905	ALA	Mainchain,Peptide
1	A	734	GLY	Peptide
1	A	841	GLY	Mainchain,Peptide
1	A	894	GLY	Mainchain,Peptide
1	A	970	LEU	Peptide
1	C	1100	MET	Peptide
1	C	1251	GLU	Peptide
1	C	1253	PRO	Peptide
1	C	1464	PHE	Peptide
1	C	1588	ALA	Mainchain,Peptide
1	C	1748	PHE	Peptide
1	C	1828	ASP	Mainchain,Peptide
1	C	1854	PHE	Mainchain,Peptide
1	C	1855	GLY	Peptide
1	C	1856	ASP	Mainchain,Peptide
1	C	1867	GLU	Mainchain,Peptide
1	C	1932	PRO	Peptide
1	C	2567	PRO	Peptide
1	C	31	GLU	Mainchain,Peptide
1	C	329	ARG	Peptide
1	C	4819	GLY	Mainchain,Peptide
1	C	4903	ASP	Mainchain,Peptide
1	C	4904	PRO	Mainchain,Peptide
1	C	4905	ALA	Mainchain,Peptide
1	C	734	GLY	Peptide
1	C	841	GLY	Mainchain,Peptide
1	C	894	GLY	Mainchain,Peptide
1	C	970	LEU	Peptide
1	E	1100	MET	Peptide
1	E	1251	GLU	Peptide
1	E	1253	PRO	Peptide
1	E	1464	PHE	Peptide
1	E	1588	ALA	Mainchain,Peptide
1	E	1748	PHE	Peptide
1	E	1828	ASP	Mainchain,Peptide
1	E	1854	PHE	Mainchain,Peptide
1	E	1855	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	E	1856	ASP	Mainchain,Peptide
1	E	1867	GLU	Mainchain,Peptide
1	E	1932	PRO	Peptide
1	E	2567	PRO	Peptide
1	E	31	GLU	Mainchain,Peptide
1	E	329	ARG	Mainchain,Peptide
1	E	4819	GLY	Mainchain,Peptide
1	E	4903	ASP	Mainchain,Peptide
1	E	4904	PRO	Mainchain,Peptide
1	E	4905	ALA	Mainchain,Peptide
1	E	734	GLY	Peptide
1	E	841	GLY	Mainchain,Peptide
1	E	894	GLY	Mainchain,Peptide
1	E	970	LEU	Peptide
1	G	1100	MET	Peptide
1	G	1253	PRO	Peptide
1	G	1464	PHE	Peptide
1	G	1588	ALA	Mainchain,Peptide
1	G	1748	PHE	Peptide
1	G	1828	ASP	Mainchain,Peptide
1	G	1854	PHE	Mainchain,Peptide
1	G	1855	GLY	Peptide
1	G	1856	ASP	Mainchain,Peptide
1	G	1867	GLU	Mainchain,Peptide
1	G	1932	PRO	Peptide
1	G	31	GLU	Mainchain,Peptide
1	G	329	ARG	Mainchain,Peptide
1	G	4819	GLY	Mainchain,Peptide
1	G	4903	ASP	Mainchain,Peptide
1	G	4904	PRO	Mainchain,Peptide
1	G	4905	ALA	Mainchain,Peptide
1	G	734	GLY	Peptide
1	G	841	GLY	Mainchain,Peptide
1	G	894	GLY	Mainchain,Peptide
1	G	970	LEU	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	26843	0	24428	1227	0
1	C	26843	0	24428	1231	0
1	E	26843	0	24428	1235	0
1	G	26843	0	24427	1248	0
2	B	832	0	831	60	0
2	D	832	0	831	57	0
2	F	832	0	831	60	0
2	H	832	0	831	60	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	110704	0	101035	4875	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 23.

All (4875) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4880:MET:HA	1:G:4578:LEU:HD11	1.26	1.17
1:A:4578:LEU:HD11	1:C:4880:MET:HA	1.18	1.17
1:E:4578:LEU:HD11	1:G:4880:MET:HA	1.25	1.16
1:C:4578:LEU:HD11	1:E:4880:MET:HA	1.17	1.10
1:A:702:TRP:CD1	2:B:34:LYS:HZ1	1.71	1.08
1:E:702:TRP:CD1	2:F:34:LYS:HZ1	1.70	1.08
1:A:4822:THR:HG22	1:C:4839:MET:SD	1.93	1.08
1:C:702:TRP:CD1	2:D:34:LYS:HZ1	1.73	1.06
1:C:4822:THR:HG22	1:E:4839:MET:SD	1.95	1.05
1:A:4931:ILE:HD11	1:G:4940:PHE:CE1	1.96	1.00
1:A:4892:ARG:CZ	1:C:4896:GLY:HA3	1.95	0.97
1:E:1835:GLU:HG3	1:E:1932:PRO:HG2	1.46	0.97
1:C:1835:GLU:HG3	1:C:1932:PRO:HG2	1.45	0.96
1:A:1783:VAL:HG12	2:B:55:VAL:HA	1.47	0.95
1:A:1808:ARG:NH1	1:A:1858:ASP:OD2	2.00	0.95
1:E:626:LEU:O	1:E:629:ARG:NH1	1.99	0.95
1:C:626:LEU:O	1:C:629:ARG:NH1	1.99	0.95
1:E:1808:ARG:NH1	1:E:1858:ASP:OD2	2.00	0.95
1:G:1808:ARG:NH1	1:G:1858:ASP:OD2	2.00	0.95
1:A:1835:GLU:HG3	1:A:1932:PRO:HG2	1.46	0.94
1:G:1783:VAL:HG12	2:H:55:VAL:HA	1.47	0.94
1:C:4822:THR:CG2	1:E:4839:MET:SD	2.55	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4192:ARG:HH11	1:G:5028:PHE:HB3	1.33	0.94
1:A:3970:GLN:NE2	1:A:5003:HIS:O	2.01	0.93
1:G:1835:GLU:HG3	1:G:1932:PRO:HG2	1.45	0.93
1:A:626:LEU:O	1:A:629:ARG:NH1	1.99	0.93
1:A:4921:PHE:CZ	1:G:4892:ARG:HA	2.03	0.93
1:C:1294:PRO:HD2	1:C:1584:ARG:HH11	1.34	0.93
1:C:1808:ARG:NH1	1:C:1858:ASP:OD2	2.00	0.93
1:A:1294:PRO:HD2	1:A:1584:ARG:HH11	1.34	0.93
1:C:3970:GLN:NE2	1:C:5003:HIS:O	2.01	0.93
1:G:1294:PRO:HD2	1:G:1584:ARG:HH11	1.34	0.93
1:A:4839:MET:HE3	1:G:4826:ILE:HG13	1.51	0.93
1:A:4822:THR:CG2	1:C:4839:MET:SD	2.56	0.93
1:C:1783:VAL:HG12	2:D:55:VAL:HA	1.52	0.92
1:E:3970:GLN:NE2	1:E:5003:HIS:O	2.02	0.92
1:E:1294:PRO:HD2	1:E:1584:ARG:HH11	1.34	0.92
1:G:626:LEU:O	1:G:629:ARG:NH1	2.01	0.91
1:C:4892:ARG:CZ	1:E:4896:GLY:HA3	2.01	0.90
1:E:1783:VAL:HG12	2:F:55:VAL:HA	1.54	0.90
1:C:4192:ARG:HH11	1:C:5028:PHE:HB3	1.37	0.89
1:A:4192:ARG:HH11	1:A:5028:PHE:HB3	1.36	0.89
1:C:4892:ARG:HA	1:E:4921:PHE:CZ	2.06	0.89
1:A:4896:GLY:HA3	1:G:4892:ARG:CZ	2.03	0.89
1:A:4839:MET:SD	1:G:4822:THR:HG22	2.12	0.89
1:E:4192:ARG:HH11	1:E:5028:PHE:HB3	1.37	0.88
1:A:2456:ILE:HD11	1:C:178:ARG:HH12	1.38	0.88
1:A:2059:LEU:HD22	1:A:2062:ARG:HH12	1.38	0.88
2:D:23:VAL:HG22	2:D:47:LYS:HG2	1.56	0.88
2:F:23:VAL:HG22	2:F:47:LYS:HG2	1.56	0.88
1:A:1436:SER:HA	1:A:1515:VAL:O	1.75	0.87
1:C:4826:ILE:CG1	1:E:4839:MET:HE3	2.03	0.87
1:E:4826:ILE:HD11	1:G:4839:MET:SD	2.15	0.87
1:C:2059:LEU:HD22	1:C:2062:ARG:HH12	1.38	0.87
1:A:1439:VAL:N	1:A:1513:ASP:O	2.07	0.87
1:E:2173:GLN:HG2	1:E:2174:GLU:H	1.40	0.87
1:G:2173:GLN:HG2	1:G:2174:GLU:H	1.40	0.87
1:A:4839:MET:CE	1:G:4822:THR:O	2.23	0.87
2:B:23:VAL:HG22	2:B:47:LYS:HG2	1.56	0.87
1:C:4578:LEU:HD11	1:E:4880:MET:CA	2.05	0.86
1:C:2173:GLN:HG2	1:C:2174:GLU:H	1.40	0.86
1:A:2173:GLN:HG2	1:A:2174:GLU:H	1.40	0.86
1:E:2456:ILE:HD11	1:G:178:ARG:HH12	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:ARG:HH12	1:G:2456:ILE:HD11	1.40	0.86
1:C:2456:ILE:HD11	1:E:178:ARG:HH12	1.41	0.86
1:E:674:PHE:HZ	2:F:71:ARG:CZ	1.88	0.86
1:A:289:ARG:NH1	1:A:303:ASP:OD1	2.09	0.85
1:A:1555:LEU:HD12	1:A:1556:PRO:HD2	1.58	0.85
1:C:2922:LYS:HA	1:C:2925:GLU:CG	2.05	0.85
1:A:4839:MET:HE3	1:G:4826:ILE:CG1	2.06	0.85
1:A:2459:SER:O	1:C:131:LEU:HD23	1.77	0.85
1:A:2922:LYS:HA	1:A:2925:GLU:CG	2.06	0.85
1:E:2059:LEU:HD22	1:E:2062:ARG:HH12	1.38	0.85
1:G:2059:LEU:HD22	1:G:2062:ARG:HH12	1.38	0.85
1:A:4826:ILE:CG1	1:C:4839:MET:HE3	2.06	0.85
1:G:4708:THR:HG22	1:G:4710:SER:H	1.41	0.85
1:C:674:PHE:HZ	2:D:71:ARG:CZ	1.90	0.85
1:C:3772:THR:OG1	1:C:3773:ARG:NH1	2.10	0.85
1:C:1555:LEU:HD12	1:C:1556:PRO:HD2	1.59	0.85
1:C:289:ARG:NH1	1:C:303:ASP:OD1	2.10	0.85
1:A:3772:THR:OG1	1:A:3773:ARG:NH1	2.10	0.84
1:A:4839:MET:SD	1:G:4822:THR:CG2	2.65	0.84
1:A:4892:ARG:HA	1:C:4921:PHE:CZ	2.11	0.84
1:A:131:LEU:HD23	1:G:2459:SER:O	1.77	0.84
1:C:2922:LYS:O	1:C:2925:GLU:HB2	1.77	0.84
1:E:289:ARG:NH1	1:E:303:ASP:OD1	2.10	0.84
1:E:674:PHE:CZ	2:F:71:ARG:CZ	2.60	0.84
1:G:289:ARG:NH1	1:G:303:ASP:OD1	2.10	0.84
1:G:1555:LEU:HD12	1:G:1556:PRO:HD2	1.59	0.84
1:G:4780:PHE:HA	1:G:4783:ILE:HD12	1.59	0.84
1:C:4708:THR:HG22	1:C:4710:SER:H	1.41	0.84
1:E:3772:THR:OG1	1:E:3773:ARG:NH1	2.10	0.84
1:C:4172:GLU:HG2	1:C:4175:ARG:HH12	1.43	0.83
1:C:2234:ARG:HH12	1:C:2271:THR:N	1.76	0.83
1:E:4708:THR:HG22	1:E:4710:SER:H	1.41	0.83
1:A:4708:THR:HG22	1:A:4710:SER:H	1.41	0.83
1:E:1555:LEU:HD12	1:E:1556:PRO:HD2	1.59	0.83
1:E:2234:ARG:HH12	1:E:2271:THR:N	1.76	0.83
1:E:2459:SER:O	1:G:131:LEU:HD23	1.79	0.82
1:A:2234:ARG:HH12	1:A:2271:THR:N	1.76	0.82
1:A:674:PHE:HZ	2:B:71:ARG:CZ	1.91	0.82
1:C:674:PHE:CZ	2:D:71:ARG:CZ	2.62	0.82
1:C:2921:GLU:O	1:C:2925:GLU:HG2	1.79	0.82
1:C:4578:LEU:CD1	1:E:4880:MET:HA	2.06	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2922:LYS:O	1:A:2925:GLU:HB2	1.80	0.82
1:G:2234:ARG:HH12	1:G:2271:THR:N	1.76	0.82
1:G:4708:THR:HG21	1:G:4775:TYR:HB2	1.61	0.82
1:G:3729:MET:HE3	1:G:3770:LEU:HD22	1.60	0.82
1:G:4033:GLY:O	1:G:4189:ARG:NH2	2.12	0.82
1:E:495:ASN:ND2	1:E:555:GLU:OE2	2.13	0.81
1:C:4940:PHE:CE1	1:E:4931:ILE:HD11	2.16	0.81
1:G:495:ASN:ND2	1:G:555:GLU:OE2	2.13	0.81
1:C:2459:SER:O	1:E:131:LEU:HD23	1.81	0.81
1:A:4578:LEU:CD1	1:C:4880:MET:HA	2.05	0.81
1:E:3750:GLU:HA	1:E:3753:PHE:HB3	1.62	0.80
1:C:3750:GLU:HA	1:C:3753:PHE:HB3	1.62	0.80
1:A:674:PHE:CZ	2:B:71:ARG:CZ	2.64	0.80
1:A:4033:GLY:O	1:A:4189:ARG:NH2	2.15	0.80
1:E:702:TRP:HD1	2:F:34:LYS:HZ1	1.27	0.80
1:A:4578:LEU:HD11	1:C:4880:MET:CA	2.08	0.80
1:G:4957:LYS:HA	1:G:4964:GLY:HA2	1.62	0.80
1:C:102:LEU:HB2	1:C:105:HIS:CD2	2.17	0.80
1:E:102:LEU:HB2	1:E:105:HIS:CD2	2.17	0.79
1:E:4033:GLY:O	1:E:4189:ARG:NH2	2.15	0.79
1:C:495:ASN:ND2	1:C:555:GLU:OE2	2.14	0.79
1:A:3750:GLU:HA	1:A:3753:PHE:HB3	1.63	0.79
1:G:1032:LYS:HB3	1:G:1036:ARG:HH12	1.48	0.79
1:A:2921:GLU:O	1:A:2925:GLU:HG2	1.82	0.79
1:A:495:ASN:ND2	1:A:555:GLU:OE2	2.14	0.79
1:A:4172:GLU:HG2	1:A:4175:ARG:HH12	1.46	0.79
1:E:4172:GLU:HG2	1:E:4175:ARG:HH12	1.47	0.79
1:G:4033:GLY:HA2	1:G:4189:ARG:HH12	1.46	0.79
1:E:4578:LEU:CD1	1:G:4880:MET:HA	2.08	0.79
1:G:1457:TYR:OH	1:G:1459:GLN:NE2	2.15	0.79
1:A:174:VAL:O	1:G:2452:ARG:NH2	2.16	0.78
1:A:1032:LYS:HB3	1:A:1036:ARG:HH12	1.47	0.78
1:C:4033:GLY:O	1:C:4189:ARG:NH2	2.15	0.78
1:A:102:LEU:HB2	1:A:105:HIS:CD2	2.18	0.78
1:E:3677:LEU:HB2	1:E:3698:LEU:HD12	1.65	0.78
1:G:102:LEU:HB2	1:G:105:HIS:CD2	2.17	0.78
1:G:3772:THR:OG1	1:G:3773:ARG:NH1	2.16	0.78
1:E:675:LEU:HD23	1:E:676:THR:HG23	1.66	0.78
1:E:4578:LEU:HD11	1:G:4880:MET:CA	2.10	0.78
1:G:4971:THR:HG23	1:G:4974:GLY:HA3	1.66	0.78
1:A:2463:LEU:N	1:A:2510:TYR:HH	1.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4880:MET:CA	1:G:4578:LEU:HD11	2.12	0.78
1:G:830:ARG:HD3	1:G:1616:GLU:OE2	1.83	0.78
1:E:830:ARG:HD3	1:E:1616:GLU:OE2	1.84	0.78
1:E:2463:LEU:N	1:E:2510:TYR:HH	1.81	0.78
1:C:2463:LEU:N	1:C:2510:TYR:HH	1.82	0.78
1:E:1032:LYS:HB3	1:E:1036:ARG:HH12	1.48	0.78
1:A:830:ARG:HD3	1:A:1616:GLU:OE2	1.83	0.77
1:C:675:LEU:HD23	1:C:676:THR:HG23	1.66	0.77
1:C:1294:PRO:HD2	1:C:1584:ARG:NH1	1.99	0.77
1:C:3677:LEU:HB2	1:C:3698:LEU:HD12	1.66	0.77
1:E:4780:PHE:HA	1:E:4783:ILE:HD12	1.66	0.77
1:G:1294:PRO:HD2	1:G:1584:ARG:NH1	1.99	0.77
1:G:675:LEU:HD23	1:G:676:THR:HG23	1.66	0.77
1:A:4957:LYS:HA	1:A:4964:GLY:HA2	1.67	0.77
1:E:1294:PRO:HD2	1:E:1584:ARG:NH1	2.00	0.77
1:C:4780:PHE:HA	1:C:4783:ILE:HD12	1.67	0.77
1:G:3970:GLN:NE2	1:G:5003:HIS:O	2.17	0.77
1:A:830:ARG:NH1	1:A:1613:LEU:O	2.18	0.76
1:C:830:ARG:NH1	1:C:1613:LEU:O	2.18	0.76
1:A:1294:PRO:HD2	1:A:1584:ARG:NH1	1.99	0.76
1:C:4957:LYS:HA	1:C:4964:GLY:HA2	1.66	0.76
1:E:4889:VAL:O	1:E:4893:ALA:N	2.18	0.76
1:G:830:ARG:NH1	1:G:1613:LEU:O	2.18	0.76
1:C:1032:LYS:HB3	1:C:1036:ARG:HH12	1.48	0.76
1:C:830:ARG:HD3	1:C:1616:GLU:OE2	1.84	0.76
1:G:1078:GLU:HA	1:G:1237:TRP:HZ3	1.50	0.76
1:A:355:LEU:HD22	1:A:379:HIS:HA	1.65	0.76
1:A:675:LEU:HD23	1:A:676:THR:HG23	1.66	0.76
1:A:1078:GLU:HA	1:A:1237:TRP:HZ3	1.50	0.76
1:G:1933:GLU:OE2	1:G:2111:VAL:HG12	1.84	0.76
1:E:1078:GLU:HA	1:E:1237:TRP:HZ3	1.50	0.76
1:E:4957:LYS:HA	1:E:4964:GLY:HA2	1.67	0.76
1:A:3677:LEU:HB2	1:A:3698:LEU:HD12	1.66	0.76
1:G:674:PHE:CZ	2:H:71:ARG:CZ	2.69	0.76
1:A:4780:PHE:HA	1:A:4783:ILE:HD12	1.68	0.76
1:A:4880:MET:HA	1:G:4578:LEU:CD1	2.13	0.76
1:C:702:TRP:HD1	2:D:34:LYS:HZ1	1.31	0.76
1:G:2924:GLN:HB3	1:G:2928:LYS:HE2	1.68	0.76
1:A:717:ASP:HB2	2:B:7:ILE:HG23	1.69	0.75
1:E:830:ARG:NH1	1:E:1613:LEU:O	2.19	0.75
1:C:717:ASP:HB2	2:D:7:ILE:HG23	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1933:GLU:OE2	1:C:2111:VAL:HG12	1.86	0.75
1:A:1933:GLU:OE2	1:A:2111:VAL:HG12	1.86	0.75
1:C:1078:GLU:HA	1:C:1237:TRP:HZ3	1.50	0.75
1:E:1933:GLU:OE2	1:E:2111:VAL:HG12	1.86	0.75
1:G:355:LEU:HD22	1:G:379:HIS:HA	1.66	0.75
1:C:1931:LEU:O	1:C:1936:LYS:NZ	2.20	0.75
1:A:3756:LYS:NZ	1:A:4999:ASP:OD1	2.20	0.75
1:C:355:LEU:HD22	1:C:379:HIS:HA	1.68	0.75
1:C:3989:VAL:HB	1:C:4047:MET:HE1	1.68	0.75
1:E:3989:VAL:HB	1:E:4047:MET:HE1	1.69	0.75
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.69	0.75
1:E:717:ASP:HB2	2:F:7:ILE:HG23	1.69	0.75
1:E:1457:TYR:OH	1:E:1459:GLN:NE2	2.19	0.75
1:E:4892:ARG:CZ	1:G:4896:GLY:HA3	2.17	0.74
1:A:1457:TYR:OH	1:A:1459:GLN:NE2	2.19	0.74
1:A:2456:ILE:HD11	1:C:178:ARG:NH1	2.02	0.74
1:C:3882:GLN:HB2	1:C:3957:VAL:HG22	1.70	0.74
1:A:1205:GLY:HA3	1:A:1227:ALA:HB3	1.69	0.74
2:H:23:VAL:HG22	2:H:47:LYS:HG2	1.69	0.74
1:A:4729:GLY:HA2	1:A:4737:ILE:HG13	1.69	0.74
1:E:42:PHE:HB3	1:E:447:ASP:OD2	1.87	0.74
1:E:355:LEU:HD22	1:E:379:HIS:HA	1.68	0.74
1:G:20:VAL:HG12	1:G:204:PRO:HA	1.70	0.74
1:A:20:VAL:HG12	1:A:204:PRO:HA	1.70	0.74
1:A:3882:GLN:HB2	1:A:3957:VAL:HG22	1.70	0.74
1:E:20:VAL:HG12	1:E:204:PRO:HA	1.69	0.74
1:E:3882:GLN:HB2	1:E:3957:VAL:HG22	1.70	0.74
1:A:3989:VAL:HB	1:A:4047:MET:HE1	1.68	0.74
1:C:20:VAL:HG12	1:C:204:PRO:HA	1.70	0.74
1:E:2456:ILE:HD11	1:G:178:ARG:NH1	2.03	0.73
1:E:3756:LYS:NZ	1:E:4999:ASP:OD1	2.20	0.73
1:G:674:PHE:HZ	2:H:71:ARG:CZ	2.02	0.73
1:G:4138:ASP:O	1:G:4142:ASN:ND2	2.21	0.73
1:A:42:PHE:HB3	1:A:447:ASP:OD2	1.87	0.73
1:A:1141:ARG:HH12	1:A:1169:LEU:HD11	1.54	0.73
1:A:1708:ARG:NH2	1:A:1837:GLN:HA	2.04	0.73
2:D:24:VAL:HG12	2:D:103:LEU:HA	1.69	0.73
1:A:4207:MET:HG2	1:A:4208:PRO:HD3	1.71	0.73
1:E:1931:LEU:O	1:E:1936:LYS:NZ	2.19	0.73
1:A:4940:PHE:CE1	1:C:4931:ILE:HD11	2.23	0.73
2:B:24:VAL:HG12	2:B:103:LEU:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2456:ILE:HD11	1:E:178:ARG:NH1	2.04	0.73
1:E:1669:LEU:O	1:E:1673:VAL:HG23	1.88	0.73
1:A:2452:ARG:NH2	1:C:174:VAL:O	2.20	0.73
1:C:2452:ARG:NH2	1:E:174:VAL:O	2.21	0.73
1:E:1205:GLY:HA3	1:E:1227:ALA:HB3	1.71	0.73
1:E:4207:MET:HG2	1:E:4208:PRO:HD3	1.71	0.73
1:G:42:PHE:HB3	1:G:447:ASP:OD2	1.88	0.73
1:A:1439:VAL:HB	1:A:1513:ASP:HB2	1.69	0.73
1:C:42:PHE:HB3	1:C:447:ASP:OD2	1.87	0.73
1:E:1075:PHE:HB2	1:E:1192:CYS:HB2	1.71	0.73
1:G:1075:PHE:HB2	1:G:1192:CYS:HB2	1.71	0.73
1:A:4876:CYS:O	1:A:4881:THR:OG1	2.07	0.73
1:C:281:ARG:HG2	1:C:312:THR:HG21	1.71	0.73
1:C:1669:LEU:O	1:C:1673:VAL:HG23	1.89	0.73
1:A:818:ARG:HG2	1:A:1028:ASP:HA	1.71	0.72
1:A:1075:PHE:HB2	1:A:1192:CYS:HB2	1.71	0.72
1:C:4826:ILE:HG12	1:E:4839:MET:HE3	1.71	0.72
1:E:3729:MET:HE3	1:E:3770:LEU:HD22	1.71	0.72
1:G:4036:VAL:O	1:G:4038:GLY:N	2.22	0.72
1:G:4960:ILE:HD11	1:G:4985:LEU:HB2	1.71	0.72
1:A:683:ARG:HH12	1:A:725:HIS:CD2	2.07	0.72
1:C:818:ARG:HG2	1:C:1028:ASP:HA	1.71	0.72
1:C:4876:CYS:O	1:C:4881:THR:OG1	2.06	0.72
1:G:1669:LEU:O	1:G:1673:VAL:HG23	1.89	0.72
1:G:4961:CYS:SG	1:G:4978:HIS:NE2	2.63	0.72
1:A:674:PHE:HB3	2:B:40:ARG:NH1	2.04	0.72
1:C:1087:ARG:HB3	1:C:1223:PHE:CD1	2.25	0.72
1:C:3729:MET:HE3	1:C:3770:LEU:HD22	1.71	0.72
1:E:1087:ARG:HB3	1:E:1223:PHE:CD1	2.24	0.72
1:A:4826:ILE:HG12	1:C:4839:MET:HE3	1.70	0.72
1:C:1708:ARG:NH2	1:C:1837:GLN:HA	2.04	0.72
1:E:818:ARG:HG2	1:E:1028:ASP:HA	1.72	0.72
1:E:1708:ARG:NH2	1:E:1837:GLN:HA	2.04	0.72
1:E:2452:ARG:NH2	1:G:174:VAL:O	2.23	0.72
1:E:4729:GLY:HA2	1:E:4737:ILE:HG13	1.69	0.72
1:G:1205:GLY:HA3	1:G:1227:ALA:HB3	1.72	0.72
1:A:178:ARG:NH1	1:G:2456:ILE:HD11	2.03	0.72
1:A:1669:LEU:O	1:A:1673:VAL:HG23	1.89	0.72
1:C:1205:GLY:HA3	1:C:1227:ALA:HB3	1.70	0.72
1:E:674:PHE:HB3	2:F:40:ARG:NH1	2.03	0.72
1:E:4826:ILE:HG12	1:G:4839:MET:HE1	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4876:CYS:O	1:E:4881:THR:OG1	2.05	0.72
1:G:683:ARG:HH12	1:G:725:HIS:CD2	2.08	0.72
1:A:1087:ARG:HB3	1:A:1223:PHE:CD1	2.25	0.72
1:G:818:ARG:HG2	1:G:1028:ASP:HA	1.72	0.72
1:G:1708:ARG:NH2	1:G:1837:GLN:HA	2.03	0.72
1:A:1931:LEU:O	1:A:1936:LYS:NZ	2.20	0.72
1:A:1941:ASN:O	1:A:1944:GLU:HG2	1.90	0.72
1:C:1075:PHE:HB2	1:C:1192:CYS:HB2	1.71	0.72
1:C:1783:VAL:CG1	2:D:55:VAL:HA	2.19	0.72
1:C:4729:GLY:HA2	1:C:4737:ILE:HG13	1.70	0.72
1:E:1291:LEU:HD23	1:E:1293:LEU:H	1.55	0.72
1:G:1087:ARG:HB3	1:G:1223:PHE:CD1	2.24	0.72
1:A:281:ARG:HG2	1:A:312:THR:HG21	1.71	0.72
1:A:544:LEU:HD12	1:A:574:VAL:HG13	1.72	0.72
1:G:674:PHE:HB3	2:H:40:ARG:NH1	2.04	0.72
1:G:717:ASP:HB2	2:H:7:ILE:HG23	1.72	0.72
1:A:293:LEU:H	1:A:311:ALA:HB1	1.54	0.71
1:C:674:PHE:HB3	2:D:40:ARG:NH1	2.05	0.71
1:C:2922:LYS:HA	1:C:2925:GLU:HG3	1.70	0.71
1:C:4207:MET:HG2	1:C:4208:PRO:HD3	1.71	0.71
1:E:2921:GLU:O	1:E:2925:GLU:HG2	1.89	0.71
1:A:4892:ARG:NH1	1:C:4896:GLY:HA3	2.04	0.71
1:A:4033:GLY:HA2	1:A:4189:ARG:HH12	1.55	0.71
1:C:1032:LYS:HB3	1:C:1036:ARG:NH1	2.05	0.71
1:E:1941:ASN:O	1:E:1944:GLU:HG2	1.90	0.71
1:G:298:GLY:HA3	1:G:377:ILE:HB	1.72	0.71
1:G:1141:ARG:HH12	1:G:1169:LEU:HD11	1.55	0.71
1:A:1032:LYS:HB3	1:A:1036:ARG:NH1	2.05	0.71
1:C:683:ARG:HH12	1:C:725:HIS:CD2	2.07	0.71
1:C:2178:MET:O	1:C:2182:ILE:HG12	1.90	0.71
1:E:4990:PHE:HA	1:E:4993:MET:HE3	1.71	0.71
1:C:1439:VAL:HB	1:C:1513:ASP:HB2	1.71	0.71
1:E:683:ARG:HH12	1:E:725:HIS:CD2	2.07	0.71
1:A:702:TRP:HD1	2:B:34:LYS:HZ1	1.30	0.71
1:A:1513:ASP:C	1:A:1514:LEU:HD12	2.16	0.71
1:A:3729:MET:HE3	1:A:3770:LEU:HD22	1.72	0.71
1:C:4643:LEU:HA	1:C:4646:LEU:HB2	1.72	0.71
1:G:2463:LEU:N	1:G:2510:TYR:HH	1.89	0.71
1:G:3750:GLU:HA	1:G:3753:PHE:HB3	1.72	0.71
1:A:4708:THR:HG21	1:A:4775:TYR:HB2	1.72	0.71
1:C:1941:ASN:O	1:C:1944:GLU:HG2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:544:LEU:HD12	1:E:574:VAL:HG13	1.72	0.71
1:E:1032:LYS:HB3	1:E:1036:ARG:NH1	2.05	0.71
1:G:293:LEU:H	1:G:311:ALA:HB1	1.54	0.71
1:G:1783:VAL:CG1	2:H:55:VAL:HA	2.20	0.71
1:A:2178:MET:O	1:A:2182:ILE:HG12	1.91	0.71
1:C:3756:LYS:NZ	1:C:4999:ASP:OD1	2.20	0.71
1:C:4708:THR:HG21	1:C:4775:TYR:HB2	1.72	0.71
1:G:1941:ASN:O	1:G:1944:GLU:HG2	1.91	0.71
1:G:4729:GLY:HA2	1:G:4737:ILE:HG13	1.73	0.71
1:G:4913:ARG:HA	1:G:4916:PHE:HB3	1.71	0.71
1:A:2341:VAL:HG22	1:A:2342:ASN:H	1.56	0.71
1:E:298:GLY:HA3	1:E:377:ILE:HB	1.72	0.71
1:E:1783:VAL:CG1	2:F:55:VAL:HA	2.19	0.71
1:E:2341:VAL:HG22	1:E:2342:ASN:H	1.56	0.71
1:G:674:PHE:CD1	2:H:40:ARG:NH1	2.58	0.71
1:G:1078:GLU:HG2	1:G:1080:SER:H	1.55	0.71
1:C:544:LEU:HD12	1:C:574:VAL:HG13	1.72	0.71
1:C:4990:PHE:HA	1:C:4993:MET:HE3	1.71	0.71
1:E:1078:GLU:HG2	1:E:1080:SER:H	1.55	0.71
1:G:670:GLU:HA	1:G:740:PRO:HB3	1.71	0.71
1:E:293:LEU:H	1:E:311:ALA:HB1	1.54	0.70
1:G:281:ARG:HG2	1:G:312:THR:HG21	1.71	0.70
1:A:670:GLU:HA	1:A:740:PRO:HB3	1.72	0.70
1:A:1078:GLU:HG2	1:A:1080:SER:H	1.55	0.70
1:C:293:LEU:H	1:C:311:ALA:HB1	1.54	0.70
1:C:4138:ASP:O	1:C:4142:ASN:ND2	2.25	0.70
1:E:4643:LEU:HA	1:E:4646:LEU:HB2	1.72	0.70
1:E:4708:THR:HG21	1:E:4775:TYR:HB2	1.72	0.70
1:E:4961:CYS:SG	1:E:4978:HIS:NE2	2.61	0.70
1:G:4983:HIS:O	1:G:4985:LEU:N	2.23	0.70
1:A:4643:LEU:HA	1:A:4646:LEU:HB2	1.73	0.70
1:A:298:GLY:HA3	1:A:377:ILE:HB	1.72	0.70
1:A:4138:ASP:O	1:A:4142:ASN:ND2	2.25	0.70
1:E:281:ARG:HG2	1:E:312:THR:HG21	1.72	0.70
1:A:2293:GLN:HA	1:A:2296:GLU:HG2	1.73	0.70
1:A:4990:PHE:HA	1:A:4993:MET:HE3	1.71	0.70
1:C:298:GLY:HA3	1:C:377:ILE:HB	1.72	0.70
1:C:1663:HIS:O	1:C:1666:THR:OG1	2.08	0.70
1:C:2341:VAL:HG22	1:C:2342:ASN:H	1.57	0.70
1:A:3966:THR:O	1:A:3970:GLN:HB2	1.92	0.70
1:C:1291:LEU:HD23	1:C:1293:LEU:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:702:TRP:CD1	2:F:34:LYS:NZ	2.56	0.70
1:E:737:LEU:HD11	2:F:7:ILE:HG22	1.73	0.70
1:E:2178:MET:O	1:E:2182:ILE:HG12	1.90	0.70
1:A:3970:GLN:HE21	1:A:5004:THR:HA	1.56	0.70
1:C:670:GLU:HA	1:C:740:PRO:HB3	1.72	0.70
1:E:3966:THR:O	1:E:3970:GLN:HB2	1.92	0.70
1:G:544:LEU:HD12	1:G:574:VAL:HG13	1.72	0.70
1:G:1032:LYS:HB3	1:G:1036:ARG:NH1	2.05	0.70
1:C:4033:GLY:HA2	1:C:4189:ARG:HH12	1.57	0.70
1:E:670:GLU:HA	1:E:740:PRO:HB3	1.72	0.70
1:A:737:LEU:HD11	2:B:7:ILE:HG22	1.72	0.70
1:A:2922:LYS:HA	1:A:2925:GLU:HG3	1.74	0.70
1:E:4138:ASP:O	1:E:4142:ASN:ND2	2.24	0.70
1:G:1291:LEU:HD23	1:G:1293:LEU:H	1.55	0.70
1:G:2341:VAL:HG22	1:G:2342:ASN:H	1.57	0.70
1:C:2095:GLN:NE2	1:C:2127:GLN:O	2.25	0.70
1:A:2326:CYS:HA	1:A:2329:GLU:HG2	1.74	0.69
1:G:548:VAL:HG21	1:G:582:HIS:HB3	1.73	0.69
1:C:2326:CYS:HA	1:C:2329:GLU:HG2	1.74	0.69
1:A:1102:VAL:HG22	1:A:1192:CYS:HA	1.75	0.69
1:E:2095:GLN:NE2	1:E:2127:GLN:O	2.25	0.69
1:C:1141:ARG:HH12	1:C:1169:LEU:HD11	1.57	0.69
1:E:4033:GLY:HA2	1:E:4189:ARG:HH12	1.56	0.69
1:A:548:VAL:HG21	1:A:582:HIS:HB3	1.73	0.69
1:C:1078:GLU:HG2	1:C:1080:SER:H	1.55	0.69
1:A:1783:VAL:CG1	2:B:55:VAL:HA	2.21	0.69
1:C:3966:THR:O	1:C:3970:GLN:HB2	1.91	0.69
1:C:4154:VAL:HG22	1:C:4157:ASP:OD2	1.92	0.69
1:E:4786:ASP:OD2	1:E:4789:PHE:N	2.26	0.69
1:A:1291:LEU:HD23	1:A:1293:LEU:H	1.55	0.69
1:A:2095:GLN:NE2	1:A:2127:GLN:O	2.25	0.69
1:A:4003:LEU:HB2	1:A:4013:LEU:HD12	1.75	0.69
1:C:548:VAL:HG21	1:C:582:HIS:HB3	1.73	0.69
1:C:1102:VAL:HG22	1:C:1192:CYS:HA	1.75	0.69
1:E:1102:VAL:HG22	1:E:1192:CYS:HA	1.75	0.69
1:E:2326:CYS:HA	1:E:2329:GLU:HG2	1.74	0.69
1:E:2922:LYS:O	1:E:2925:GLU:HB2	1.93	0.69
1:G:3677:LEU:HB2	1:G:3698:LEU:HD12	1.75	0.69
1:C:4961:CYS:SG	1:C:4978:HIS:NE2	2.61	0.69
1:G:1102:VAL:HG22	1:G:1192:CYS:HA	1.75	0.69
1:A:4961:CYS:SG	1:A:4978:HIS:NE2	2.61	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:445:LEU:HD21	1:E:522:LEU:HD12	1.75	0.69
1:E:548:VAL:HG21	1:E:582:HIS:HB3	1.74	0.68
1:G:4923:PHE:O	1:G:4928:LEU:HG	1.94	0.68
1:A:1663:HIS:O	1:A:1666:THR:OG1	2.08	0.68
1:G:4563:ARG:NH1	1:G:4815:ASP:OD1	2.27	0.68
1:A:2922:LYS:C	1:A:2925:GLU:HB2	2.18	0.68
2:B:74:LEU:HB2	2:B:99:PHE:HB2	1.74	0.68
1:C:2293:GLN:HA	1:C:2296:GLU:HG2	1.74	0.68
1:C:3970:GLN:HE21	1:C:5004:THR:HA	1.58	0.68
1:C:4892:ARG:HG3	1:E:4921:PHE:CE1	2.28	0.68
1:C:4971:THR:HG23	1:C:4974:GLY:HA3	1.75	0.68
1:E:2460:LEU:HD12	1:G:178:ARG:NH1	2.08	0.68
1:G:289:ARG:HD2	1:G:303:ASP:HA	1.75	0.68
1:G:674:PHE:HB3	2:H:40:ARG:HH12	1.58	0.68
1:G:2178:MET:O	1:G:2182:ILE:HG12	1.91	0.68
1:G:2326:CYS:HA	1:G:2329:GLU:HG2	1.74	0.68
1:G:3989:VAL:HB	1:G:4047:MET:HE1	1.74	0.68
1:G:4990:PHE:HA	1:G:4993:MET:HE3	1.75	0.68
1:C:674:PHE:HZ	2:D:71:ARG:NE	1.92	0.68
1:C:4148:THR:O	1:C:4151:SER:OG	2.11	0.68
1:E:3970:GLN:HE21	1:E:5004:THR:HA	1.57	0.68
1:G:265:LEU:HD12	1:G:279:PRO:HB2	1.75	0.68
1:G:4867:GLU:O	1:G:4869:GLU:N	2.27	0.68
1:G:4986:ALA:O	1:G:4989:MET:HG2	1.93	0.68
1:G:4207:MET:HG2	1:G:4208:PRO:HD3	1.76	0.68
1:A:4154:VAL:HG22	1:A:4157:ASP:OD2	1.92	0.68
1:E:289:ARG:HD2	1:E:303:ASP:HA	1.76	0.68
1:E:674:PHE:HZ	2:F:71:ARG:NE	1.90	0.68
1:E:2293:GLN:HA	1:E:2296:GLU:HG2	1.75	0.68
1:E:4154:VAL:HG22	1:E:4157:ASP:OD2	1.92	0.68
1:G:4983:HIS:C	1:G:4985:LEU:H	2.01	0.68
1:A:4148:THR:O	1:A:4151:SER:OG	2.12	0.68
1:C:4003:LEU:HB2	1:C:4013:LEU:HD12	1.76	0.68
1:C:4230:LYS:NZ	1:C:4960:ILE:O	2.27	0.68
1:C:4786:ASP:OD2	1:C:4789:PHE:N	2.26	0.68
2:F:74:LEU:HB2	2:F:99:PHE:HB2	1.75	0.68
1:A:674:PHE:HZ	2:B:71:ARG:NE	1.91	0.68
1:A:4786:ASP:OD2	1:A:4789:PHE:N	2.26	0.68
1:C:4655:PHE:O	1:C:4658:ILE:HG13	1.94	0.68
2:D:74:LEU:HB2	2:D:99:PHE:HB2	1.75	0.68
1:A:2059:LEU:HB3	1:A:2062:ARG:NH1	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4921:PHE:CE1	1:G:4892:ARG:HG3	2.29	0.68
1:C:702:TRP:CD1	2:D:34:LYS:NZ	2.58	0.68
1:G:1931:LEU:O	1:G:1936:LYS:NZ	2.21	0.68
1:A:168:ASP:OD1	1:A:201:ASN:ND2	2.27	0.67
1:A:2101:MET:HE3	1:A:2105:TRP:HE1	1.59	0.67
1:A:2151:ASP:OD1	1:A:2188:ASN:ND2	2.27	0.67
1:A:4867:GLU:O	1:A:4869:GLU:N	2.27	0.67
1:C:289:ARG:HD2	1:C:303:ASP:HA	1.75	0.67
1:E:1708:ARG:HD2	1:E:1837:GLN:HE22	1.59	0.67
1:G:4876:CYS:O	1:G:4881:THR:OG1	2.09	0.67
1:C:4036:VAL:O	1:C:4038:GLY:N	2.27	0.67
1:E:2059:LEU:HB3	1:E:2062:ARG:NH1	2.09	0.67
1:G:2151:ASP:OD1	1:G:2188:ASN:ND2	2.27	0.67
1:A:4230:LYS:NZ	1:A:4960:ILE:O	2.27	0.67
1:C:2101:MET:HE3	1:C:2105:TRP:HE1	1.60	0.67
1:E:106:ALA:HB1	1:E:147:TRP:HB3	1.77	0.67
1:E:2151:ASP:OD1	1:E:2188:ASN:ND2	2.27	0.67
1:E:4148:THR:O	1:E:4151:SER:OG	2.11	0.67
1:A:4655:PHE:O	1:A:4658:ILE:HG13	1.95	0.67
1:C:737:LEU:HD11	2:D:7:ILE:HG22	1.74	0.67
1:C:1708:ARG:HD2	1:C:1837:GLN:HE22	1.59	0.67
1:E:4036:VAL:O	1:E:4038:GLY:N	2.27	0.67
1:E:4230:LYS:NZ	1:E:4960:ILE:O	2.27	0.67
1:E:4581:LYS:HD2	1:G:4856:PHE:HZ	1.59	0.67
1:E:4655:PHE:O	1:E:4658:ILE:HG13	1.94	0.67
1:G:3780:LEU:HD11	1:G:3820:LEU:HD21	1.76	0.67
1:C:106:ALA:HB1	1:C:147:TRP:HB3	1.77	0.67
1:C:2151:ASP:OD1	1:C:2188:ASN:ND2	2.27	0.67
1:E:265:LEU:HD12	1:E:279:PRO:HB2	1.77	0.67
1:E:975:VAL:HG21	1:E:1044:ARG:HB3	1.75	0.67
1:A:975:VAL:HG21	1:A:1044:ARG:HB3	1.75	0.67
1:A:4036:VAL:O	1:A:4038:GLY:N	2.27	0.67
1:C:2460:LEU:HD12	1:E:178:ARG:NH1	2.10	0.67
1:E:544:LEU:HD21	1:E:578:ILE:HG13	1.76	0.67
1:E:579:GLN:HB2	1:E:582:HIS:ND1	2.10	0.67
1:G:579:GLN:HB2	1:G:582:HIS:ND1	2.10	0.67
1:G:2059:LEU:HB3	1:G:2062:ARG:NH1	2.09	0.67
1:A:445:LEU:HD21	1:A:522:LEU:HD12	1.76	0.67
1:A:579:GLN:HB2	1:A:582:HIS:ND1	2.10	0.67
1:A:4884:LEU:HA	1:A:4887:MET:HB3	1.77	0.67
1:C:4884:LEU:HA	1:C:4887:MET:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4892:ARG:NH1	1:E:4896:GLY:HA3	2.09	0.67
1:G:717:ASP:OD2	2:H:7:ILE:HA	1.95	0.67
1:A:289:ARG:HD2	1:A:303:ASP:HA	1.75	0.67
1:A:1100:MET:HB2	1:A:1126:GLY:HA3	1.76	0.67
1:C:1457:TYR:OH	1:C:1459:GLN:NE2	2.27	0.67
1:G:975:VAL:HG21	1:G:1044:ARG:HB3	1.76	0.67
1:G:1663:HIS:O	1:G:1666:THR:OG1	2.08	0.67
1:A:544:LEU:HD21	1:A:578:ILE:HG13	1.76	0.67
1:C:975:VAL:HG21	1:C:1044:ARG:HB3	1.76	0.67
2:D:48:PHE:HZ	2:D:63:VAL:HG11	1.59	0.67
1:E:865:PRO:HA	1:E:868:GLU:HB2	1.76	0.67
1:E:4003:LEU:HB2	1:E:4013:LEU:HD12	1.76	0.67
1:G:1703:LEU:HD12	1:G:1704:PRO:HD2	1.77	0.67
1:A:265:LEU:HD12	1:A:279:PRO:HB2	1.76	0.67
1:C:265:LEU:HD12	1:C:279:PRO:HB2	1.75	0.67
1:C:544:LEU:HD21	1:C:578:ILE:HG13	1.76	0.67
1:C:4867:GLU:O	1:C:4869:GLU:N	2.27	0.67
1:E:4867:GLU:O	1:E:4869:GLU:N	2.27	0.67
1:G:1544:PRO:HG2	1:G:1546:THR:HG23	1.77	0.67
1:G:2095:GLN:NE2	1:G:2127:GLN:O	2.28	0.67
1:A:263:GLU:O	1:A:281:ARG:N	2.28	0.66
1:C:445:LEU:HD21	1:C:522:LEU:HD12	1.75	0.66
1:C:2059:LEU:HB3	1:C:2062:ARG:NH1	2.09	0.66
1:C:2186:MET:HE3	1:C:2235:PHE:CE1	2.30	0.66
1:E:645:ARG:O	1:E:824:GLU:N	2.28	0.66
1:G:106:ALA:HB1	1:G:147:TRP:HB3	1.77	0.66
1:G:865:PRO:HA	1:G:868:GLU:HB2	1.77	0.66
1:G:4003:LEU:HB2	1:G:4013:LEU:HD12	1.77	0.66
1:A:758:ARG:NH1	1:A:763:PRO:HD3	2.10	0.66
1:A:4971:THR:HG23	1:A:4974:GLY:HA3	1.77	0.66
1:E:1856:ASP:H	1:E:1857:GLU:HB3	1.60	0.66
1:E:2430:ILE:HD13	1:E:2502:MET:HG2	1.78	0.66
1:G:263:GLU:O	1:G:281:ARG:N	2.28	0.66
1:G:445:LEU:HD21	1:G:522:LEU:HD12	1.75	0.66
1:A:2460:LEU:HD12	1:C:178:ARG:NH1	2.10	0.66
1:A:2770:LYS:HG3	1:A:2791:LEU:HD21	1.77	0.66
1:A:4210:VAL:O	1:A:4214:LYS:N	2.28	0.66
1:C:1856:ASP:H	1:C:1857:GLU:HB3	1.61	0.66
1:E:2101:MET:HE3	1:E:2105:TRP:HE1	1.60	0.66
1:E:2770:LYS:HG3	1:E:2791:LEU:HD21	1.77	0.66
1:E:4210:VAL:O	1:E:4214:LYS:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4892:ARG:HA	1:G:4921:PHE:CZ	2.29	0.66
1:C:540:PHE:HA	1:C:543:ASN:HD22	1.61	0.66
1:C:579:GLN:HB2	1:C:582:HIS:ND1	2.10	0.66
1:C:1100:MET:HB2	1:C:1126:GLY:HA3	1.76	0.66
1:A:540:PHE:HA	1:A:543:ASN:HD22	1.61	0.66
1:A:1703:LEU:HD12	1:A:1704:PRO:HD2	1.78	0.66
1:A:2186:MET:HE3	1:A:2235:PHE:CE1	2.31	0.66
1:C:1078:GLU:HA	1:C:1237:TRP:CZ3	2.31	0.66
1:C:2770:LYS:HG3	1:C:2791:LEU:HD21	1.77	0.66
1:E:252:VAL:HG23	1:E:257:ARG:HE	1.61	0.66
1:E:1100:MET:HB2	1:E:1126:GLY:HA3	1.76	0.66
1:E:4971:THR:HG23	1:E:4974:GLY:HA3	1.77	0.66
2:F:48:PHE:HZ	2:F:63:VAL:HG11	1.59	0.66
1:G:2101:MET:HE3	1:G:2105:TRP:HE1	1.60	0.66
1:G:4884:LEU:HA	1:G:4887:MET:HB3	1.78	0.66
1:C:591:ASP:OD2	1:C:1585:LYS:HG3	1.95	0.66
1:E:674:PHE:HB3	2:F:40:ARG:HH12	1.60	0.66
1:A:591:ASP:OD2	1:A:1585:LYS:HG3	1.95	0.66
1:C:1703:LEU:HD12	1:C:1704:PRO:HD2	1.77	0.66
1:C:2430:ILE:HD13	1:C:2502:MET:HG2	1.78	0.66
1:E:3934:TYR:HB2	1:E:3995:VAL:HG13	1.78	0.66
1:E:168:ASP:OD1	1:E:201:ASN:ND2	2.27	0.66
1:E:2186:MET:HE3	1:E:2235:PHE:CE1	2.31	0.66
1:G:168:ASP:OD1	1:G:201:ASN:ND2	2.28	0.66
1:G:591:ASP:OD2	1:G:1585:LYS:HG3	1.95	0.66
1:G:1708:ARG:HD2	1:G:1837:GLN:HE22	1.60	0.66
1:A:865:PRO:HA	1:A:868:GLU:HB2	1.78	0.66
1:C:252:VAL:HG23	1:C:257:ARG:HE	1.61	0.66
1:C:263:GLU:O	1:C:281:ARG:N	2.28	0.66
1:E:4933:GLN:HG2	1:G:4926:VAL:HG13	1.76	0.66
1:G:1100:MET:HB2	1:G:1126:GLY:HA3	1.76	0.66
1:A:1544:PRO:HG2	1:A:1546:THR:HG23	1.78	0.65
1:A:1856:ASP:H	1:A:1857:GLU:HB3	1.61	0.65
1:C:628:GLY:O	1:C:630:GLU:N	2.27	0.65
1:C:758:ARG:NH1	1:C:763:PRO:HD3	2.11	0.65
1:C:1544:PRO:HG2	1:C:1546:THR:HG23	1.78	0.65
1:C:2862:LEU:HD21	1:C:2929:PHE:HB2	1.78	0.65
1:E:1703:LEU:HD12	1:E:1704:PRO:HD2	1.77	0.65
1:A:3934:TYR:HB2	1:A:3995:VAL:HG13	1.78	0.65
1:A:4839:MET:SD	1:G:4822:THR:HG23	2.35	0.65
1:C:2922:LYS:HA	1:C:2925:GLU:HG2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:252:VAL:HG23	1:G:257:ARG:HE	1.61	0.65
1:G:544:LEU:HD21	1:G:578:ILE:HG13	1.77	0.65
1:G:593:HIS:HB3	1:G:596:ASN:ND2	2.12	0.65
1:G:645:ARG:O	1:G:824:GLU:N	2.28	0.65
1:G:1856:ASP:H	1:G:1857:GLU:HB3	1.61	0.65
1:A:645:ARG:O	1:A:824:GLU:N	2.28	0.65
1:A:2430:ILE:HD13	1:A:2502:MET:HG2	1.78	0.65
1:E:758:ARG:NH1	1:E:763:PRO:HD3	2.11	0.65
1:E:1663:HIS:O	1:E:1666:THR:OG1	2.07	0.65
1:G:628:GLY:O	1:G:630:GLU:N	2.27	0.65
1:G:2770:LYS:HG3	1:G:2791:LEU:HD21	1.77	0.65
1:A:1708:ARG:HD2	1:A:1837:GLN:HE22	1.60	0.65
1:A:2646:ASN:HA	1:A:2699:ALA:HB1	1.79	0.65
1:C:593:HIS:HB3	1:C:596:ASN:ND2	2.12	0.65
1:E:4581:LYS:HZ3	1:G:4877:ASP:HA	1.61	0.65
1:G:2186:MET:HE3	1:G:2235:PHE:CE1	2.30	0.65
1:A:593:HIS:HB3	1:A:596:ASN:ND2	2.12	0.65
1:A:2862:LEU:HD21	1:A:2929:PHE:HB2	1.78	0.65
1:A:4839:MET:SD	1:G:4822:THR:O	2.54	0.65
1:C:3934:TYR:HB2	1:C:3995:VAL:HG13	1.78	0.65
1:E:591:ASP:OD2	1:E:1585:LYS:HG3	1.95	0.65
1:E:1078:GLU:HA	1:E:1237:TRP:CZ3	2.31	0.65
1:G:2293:GLN:HA	1:G:2296:GLU:HG2	1.77	0.65
1:A:178:ARG:NH1	1:G:2460:LEU:HD12	2.12	0.65
1:A:628:GLY:O	1:A:630:GLU:N	2.27	0.65
1:A:3969:ILE:HG12	1:A:3980:LEU:HD11	1.79	0.65
2:B:48:PHE:HZ	2:B:63:VAL:HG11	1.59	0.65
1:E:18:ASP:HB3	1:E:69:LEU:HD12	1.78	0.65
1:G:3966:THR:O	1:G:3970:GLN:N	2.29	0.65
1:A:451:TYR:O	1:A:474:ARG:NH1	2.30	0.65
1:A:1078:GLU:HA	1:A:1237:TRP:CZ3	2.32	0.65
1:E:540:PHE:HA	1:E:543:ASN:HD22	1.61	0.65
1:G:669:ASP:OD2	1:G:790:ARG:HB2	1.96	0.65
1:G:702:TRP:NE1	2:H:34:LYS:HZ1	1.95	0.65
1:G:2430:ILE:HD13	1:G:2502:MET:HG2	1.79	0.65
1:A:3992:PHE:HB2	1:A:4023:MET:HE1	1.78	0.65
1:C:3969:ILE:HG12	1:C:3980:LEU:HD11	1.79	0.65
1:E:1141:ARG:HH12	1:E:1169:LEU:HD11	1.59	0.65
1:E:2862:LEU:HD21	1:E:2929:PHE:HB2	1.79	0.65
1:G:4786:ASP:OD2	1:G:4789:PHE:N	2.29	0.65
1:A:4839:MET:CE	1:G:4826:ILE:HG13	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3780:LEU:HD12	1:C:3816:MET:HE2	1.79	0.65
1:E:467:LYS:O	1:E:470:SER:OG	2.12	0.65
1:G:540:PHE:HA	1:G:543:ASN:HD22	1.61	0.65
1:G:4107:GLU:HA	1:G:4110:PHE:HB3	1.78	0.65
1:C:3992:PHE:HB2	1:C:4023:MET:HE1	1.78	0.65
1:E:669:ASP:OD2	1:E:790:ARG:HB2	1.97	0.65
1:E:3992:PHE:HB2	1:E:4023:MET:HE1	1.78	0.65
1:A:669:ASP:OD2	1:A:790:ARG:HB2	1.97	0.64
1:A:4688:ILE:HD12	1:A:4737:ILE:HD12	1.79	0.64
1:C:865:PRO:HA	1:C:868:GLU:HB2	1.77	0.64
1:E:1544:PRO:HG2	1:E:1546:THR:HG23	1.78	0.64
1:E:4884:LEU:HA	1:E:4887:MET:HB3	1.80	0.64
1:G:451:TYR:O	1:G:474:ARG:NH1	2.30	0.64
1:E:263:GLU:O	1:E:281:ARG:N	2.28	0.64
1:E:593:HIS:HB3	1:E:596:ASN:ND2	2.12	0.64
1:G:4154:VAL:O	1:G:4154:VAL:HG13	1.96	0.64
1:A:106:ALA:HB1	1:A:147:TRP:HB3	1.79	0.64
1:A:3914:ASN:HB3	1:A:3917:ILE:HD12	1.79	0.64
1:C:4688:ILE:HD12	1:C:4737:ILE:HD12	1.79	0.64
1:E:451:TYR:O	1:E:474:ARG:NH1	2.31	0.64
1:E:628:GLY:O	1:E:630:GLU:N	2.27	0.64
1:G:4643:LEU:HA	1:G:4646:LEU:HB2	1.80	0.64
1:A:131:LEU:HB3	1:G:2460:LEU:HD21	1.80	0.64
1:A:1115:LEU:HD21	1:A:1123:VAL:HG21	1.80	0.64
1:A:2922:LYS:HA	1:A:2925:GLU:HG2	1.77	0.64
1:A:3780:LEU:HD12	1:A:3816:MET:HE2	1.79	0.64
1:C:2646:ASN:HA	1:C:2699:ALA:HB1	1.78	0.64
1:E:3969:ILE:HG12	1:E:3980:LEU:HD11	1.80	0.64
1:G:18:ASP:HB3	1:G:69:LEU:HD12	1.79	0.64
1:G:1436:SER:HA	1:G:1515:VAL:O	1.98	0.64
1:A:674:PHE:HB3	2:B:40:ARG:HH12	1.62	0.64
1:A:4027:LEU:O	1:A:4031:LEU:HD13	1.98	0.64
1:C:168:ASP:OD1	1:C:201:ASN:ND2	2.28	0.64
1:C:669:ASP:OD2	1:C:790:ARG:HB2	1.97	0.64
1:C:1293:LEU:HD23	1:C:1584:ARG:HG2	1.80	0.64
1:E:638:ILE:HG22	1:E:639:ASN:H	1.62	0.64
1:E:4688:ILE:HD12	1:E:4737:ILE:HD12	1.79	0.64
1:G:3914:ASN:HB3	1:G:3917:ILE:HD12	1.78	0.64
1:A:116:MET:HG2	1:A:139:GLU:HG3	1.80	0.64
1:C:3914:ASN:HB3	1:C:3917:ILE:HD12	1.79	0.64
1:G:467:LYS:O	1:G:470:SER:OG	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:638:ILE:HG22	1:G:639:ASN:H	1.62	0.64
1:G:1561:VAL:HG13	1:G:1562:ILE:HG22	1.80	0.64
1:A:252:VAL:HG23	1:A:257:ARG:HE	1.61	0.64
1:C:2453:ILE:O	1:C:2456:ILE:HG22	1.98	0.64
1:E:4823:LEU:HA	1:E:4826:ILE:HD12	1.79	0.64
1:G:1078:GLU:HB3	1:G:1081:TYR:CD2	2.33	0.64
1:A:4892:ARG:HG3	1:C:4921:PHE:CE1	2.33	0.64
1:C:1115:LEU:HD21	1:C:1123:VAL:HG21	1.80	0.64
1:E:1078:GLU:HB3	1:E:1081:TYR:CD2	2.33	0.64
1:E:2453:ILE:O	1:E:2456:ILE:HG22	1.98	0.64
1:G:116:MET:HG2	1:G:139:GLU:HG3	1.80	0.64
1:G:758:ARG:NH1	1:G:763:PRO:HD3	2.13	0.64
1:G:4933:GLN:O	1:G:4937:ILE:HG12	1.98	0.64
1:A:674:PHE:CD1	2:B:40:ARG:NH1	2.64	0.64
1:C:451:TYR:O	1:C:474:ARG:NH1	2.31	0.64
1:C:1143:TRP:HB3	1:C:1164:LEU:HD11	1.80	0.64
1:A:4035:VAL:HG23	1:A:4036:VAL:H	1.63	0.64
1:C:116:MET:HG2	1:C:139:GLU:HG3	1.80	0.64
1:A:1078:GLU:HB3	1:A:1081:TYR:CD2	2.33	0.63
1:C:4210:VAL:O	1:C:4214:LYS:N	2.28	0.63
2:D:27:THR:HG22	2:D:100:ASP:HB3	1.80	0.63
1:E:1115:LEU:HD21	1:E:1123:VAL:HG21	1.80	0.63
1:E:1293:LEU:HD23	1:E:1584:ARG:HG2	1.80	0.63
1:E:2460:LEU:HD21	1:G:131:LEU:HB3	1.80	0.63
1:E:3702:VAL:HG21	1:E:3773:ARG:HB3	1.80	0.63
1:G:737:LEU:HD13	2:H:8:SER:HB3	1.80	0.63
1:G:2453:ILE:O	1:G:2456:ILE:HG22	1.98	0.63
1:G:2646:ASN:HA	1:G:2699:ALA:HB1	1.81	0.63
1:E:3889:GLN:NE2	1:E:3963:ASN:OD1	2.32	0.63
1:E:4974:GLY:O	1:E:4977:THR:OG1	2.15	0.63
1:G:3783:ILE:O	1:G:3831:SER:OG	2.11	0.63
1:G:3813:GLN:OE1	1:G:3896:ASN:ND2	2.31	0.63
1:A:2453:ILE:O	1:A:2456:ILE:HG22	1.98	0.63
1:A:4986:ALA:O	1:A:4989:MET:HG2	1.99	0.63
1:C:18:ASP:HB3	1:C:69:LEU:HD12	1.79	0.63
1:C:212:GLY:HA2	1:C:341:TYR:H	1.63	0.63
1:C:638:ILE:HG22	1:C:639:ASN:H	1.62	0.63
1:C:4035:VAL:HG23	1:C:4036:VAL:H	1.63	0.63
1:E:1143:TRP:HB3	1:E:1164:LEU:HD11	1.80	0.63
1:E:3892:CYS:HB3	1:E:3900:GLN:HE21	1.63	0.63
1:E:4124:ASN:OD1	1:E:4125:PHE:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4986:ALA:O	1:E:4989:MET:HG2	1.99	0.63
1:G:1104:TRP:HB3	1:G:1188:PHE:HB3	1.81	0.63
1:G:1143:TRP:HB3	1:G:1164:LEU:HD11	1.79	0.63
1:C:263:GLU:HB2	1:C:281:ARG:HB2	1.81	0.63
1:C:646:PRO:HD2	1:C:779:PRO:HG2	1.79	0.63
1:C:2770:LYS:HB3	1:C:2775:TRP:HB2	1.81	0.63
1:C:674:PHE:CD1	2:D:40:ARG:NH1	2.62	0.63
1:C:4027:LEU:O	1:C:4031:LEU:HD13	1.97	0.63
1:E:1104:TRP:HB3	1:E:1188:PHE:HB3	1.81	0.63
1:G:4715:TYR:CE2	1:G:4717:ASP:HB2	2.34	0.63
1:A:646:PRO:HD2	1:A:779:PRO:HG2	1.80	0.63
1:C:603:LEU:HD23	1:C:606:LEU:HD12	1.80	0.63
1:C:1561:VAL:HG13	1:C:1562:ILE:HG22	1.80	0.63
1:C:3963:ASN:O	1:C:3966:THR:OG1	2.14	0.63
1:C:4889:VAL:O	1:C:4893:ALA:N	2.22	0.63
1:E:603:LEU:HD23	1:E:606:LEU:HD12	1.81	0.63
1:E:2646:ASN:HA	1:E:2699:ALA:HB1	1.80	0.63
1:E:4656:LEU:O	1:E:4659:ILE:HG22	1.97	0.63
1:G:2862:LEU:HD21	1:G:2929:PHE:HB2	1.80	0.63
1:E:3914:ASN:HB3	1:E:3917:ILE:HD12	1.79	0.63
2:F:27:THR:HG22	2:F:100:ASP:HB3	1.80	0.63
1:G:1115:LEU:HD21	1:G:1123:VAL:HG21	1.80	0.63
1:G:4881:THR:HA	1:G:4884:LEU:HG	1.81	0.63
1:A:1561:VAL:HG13	1:A:1562:ILE:HG22	1.80	0.63
1:C:224:HIS:HB2	1:C:247:TYR:CD1	2.34	0.63
1:E:4035:VAL:HG23	1:E:4036:VAL:H	1.63	0.63
1:A:170:ILE:HG12	1:A:197:GLN:HB3	1.79	0.63
1:A:1729:SER:HB2	1:A:2163:ARG:NH1	2.14	0.63
1:A:4656:LEU:O	1:A:4659:ILE:HG22	1.98	0.63
1:C:4656:LEU:O	1:C:4659:ILE:HG22	1.98	0.63
1:E:212:GLY:HA2	1:E:341:TYR:H	1.64	0.63
1:E:263:GLU:HB2	1:E:281:ARG:HB2	1.81	0.63
1:G:170:ILE:HG12	1:G:197:GLN:HB3	1.81	0.63
1:G:603:LEU:HD23	1:G:606:LEU:HD12	1.81	0.63
1:G:674:PHE:CB	2:H:40:ARG:HH12	2.12	0.63
1:G:1729:SER:HB2	1:G:2163:ARG:NH1	2.14	0.63
1:A:3889:GLN:NE2	1:A:3963:ASN:OD1	2.32	0.62
1:A:4868:ASP:OD1	1:A:4869:GLU:N	2.32	0.62
1:A:4889:VAL:O	1:A:4893:ALA:N	2.22	0.62
1:A:4931:ILE:HD11	1:G:4940:PHE:CD1	2.33	0.62
1:C:1078:GLU:HB3	1:C:1081:TYR:CD2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4124:ASN:OD1	1:C:4125:PHE:N	2.32	0.62
1:E:4904:PRO:HA	1:E:4905:ALA:C	2.24	0.62
1:G:4124:ASN:OD1	1:G:4125:PHE:N	2.31	0.62
1:A:224:HIS:HB2	1:A:247:TYR:CD1	2.34	0.62
1:A:1835:GLU:CG	1:A:1932:PRO:HG2	2.27	0.62
1:C:1104:TRP:HB3	1:C:1188:PHE:HB3	1.81	0.62
1:E:2770:LYS:HB3	1:E:2775:TRP:HB2	1.81	0.62
1:E:3962:PHE:O	1:E:3966:THR:HG23	1.99	0.62
1:G:2071:ARG:NH2	1:G:3666:ASP:OD2	2.32	0.62
1:G:3926:LEU:O	1:G:3930:ILE:HG12	1.99	0.62
1:G:4956:THR:O	1:G:4965:SER:N	2.32	0.62
1:A:603:LEU:HD23	1:A:606:LEU:HD12	1.81	0.62
1:A:1143:TRP:HB3	1:A:1164:LEU:HD11	1.79	0.62
1:A:2770:LYS:HB3	1:A:2775:TRP:HB2	1.81	0.62
1:C:2460:LEU:HD21	1:E:131:LEU:HB3	1.80	0.62
1:E:1436:SER:HA	1:E:1515:VAL:O	1.99	0.62
1:E:1561:VAL:HG13	1:E:1562:ILE:HG22	1.80	0.62
1:E:4027:LEU:O	1:E:4031:LEU:HD13	1.98	0.62
1:E:4868:ASP:OD1	1:E:4869:GLU:N	2.32	0.62
1:G:1078:GLU:HA	1:G:1237:TRP:CZ3	2.32	0.62
1:A:669:ASP:HB3	1:A:788:LYS:HZ1	1.64	0.62
1:A:1104:TRP:HB3	1:A:1188:PHE:HB3	1.81	0.62
1:C:3702:VAL:HG21	1:C:3773:ARG:HB3	1.81	0.62
1:C:3962:PHE:O	1:C:3966:THR:HG23	1.99	0.62
1:C:4986:ALA:O	1:C:4989:MET:HG2	1.99	0.62
1:E:116:MET:HG2	1:E:139:GLU:HG3	1.80	0.62
1:G:224:HIS:HB2	1:G:247:TYR:CD1	2.34	0.62
1:G:3884:LEU:O	1:G:3887:PHE:HB3	1.98	0.62
1:G:3900:GLN:NE2	1:G:3967:GLU:O	2.31	0.62
1:G:4160:LEU:O	1:G:4164:LEU:N	2.32	0.62
1:G:4853:VAL:O	1:G:4857:ASN:ND2	2.31	0.62
1:A:263:GLU:HB2	1:A:281:ARG:HB2	1.82	0.62
1:A:4904:PRO:HA	1:A:4905:ALA:C	2.24	0.62
1:G:1853:ILE:O	1:G:1854:PHE:HB2	1.99	0.62
1:G:2770:LYS:HB3	1:G:2775:TRP:HB2	1.82	0.62
1:C:2452:ARG:NH2	1:E:177:GLU:OE2	2.33	0.62
1:E:1729:SER:HB2	1:E:2163:ARG:NH1	2.14	0.62
1:E:3780:LEU:HD12	1:E:3816:MET:HE2	1.79	0.62
2:B:27:THR:HG22	2:B:100:ASP:HB3	1.81	0.62
1:E:1087:ARG:HB3	1:E:1223:PHE:HD1	1.64	0.62
1:E:2071:ARG:NH2	1:E:3666:ASP:OD2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:212:GLY:HA2	1:G:341:TYR:H	1.64	0.62
1:G:1087:ARG:HB3	1:G:1223:PHE:HD1	1.65	0.62
1:G:4901:ILE:HD13	1:G:4913:ARG:HH21	1.65	0.62
1:A:2071:ARG:NH2	1:A:3666:ASP:OD2	2.33	0.62
1:E:170:ILE:HG12	1:E:197:GLN:HB3	1.81	0.62
1:E:224:HIS:HB2	1:E:247:TYR:CD1	2.34	0.62
1:E:646:PRO:HD2	1:E:779:PRO:HG2	1.80	0.62
1:G:646:PRO:HD2	1:G:779:PRO:HG2	1.80	0.62
1:G:3892:CYS:HB3	1:G:3900:GLN:HE21	1.65	0.62
1:G:4904:PRO:HA	1:G:4905:ALA:C	2.25	0.62
1:A:554:LEU:HD13	1:A:1596:GLU:HB3	1.82	0.62
1:A:1293:LEU:HD23	1:A:1584:ARG:HG2	1.81	0.62
1:A:3962:PHE:O	1:A:3966:THR:HG23	1.99	0.62
1:C:554:LEU:HD13	1:C:1596:GLU:HB3	1.82	0.62
1:C:645:ARG:O	1:C:824:GLU:N	2.28	0.62
1:E:554:LEU:HD13	1:E:1596:GLU:HB3	1.82	0.62
1:E:1853:ILE:O	1:E:1854:PHE:HB2	1.99	0.62
1:G:263:GLU:HB2	1:G:281:ARG:HB2	1.81	0.62
1:G:1293:LEU:HD23	1:G:1584:ARG:HG2	1.81	0.62
1:C:1158:ASN:HB3	1:C:1182:ILE:H	1.65	0.62
1:C:1853:ILE:O	1:C:1854:PHE:HB2	1.99	0.62
1:C:2460:LEU:CD1	1:E:178:ARG:NH1	2.62	0.62
1:C:4904:PRO:HA	1:C:4905:ALA:C	2.24	0.62
1:A:212:GLY:HA2	1:A:341:TYR:H	1.63	0.61
1:A:702:TRP:CD1	2:B:34:LYS:NZ	2.58	0.61
1:A:892:THR:H	1:A:902:ARG:HA	1.65	0.61
1:G:478:PHE:CZ	1:G:483:MET:HB2	2.35	0.61
1:G:4688:ILE:HD12	1:G:4737:ILE:HD12	1.82	0.61
2:H:27:THR:HA	2:H:38:SER:HA	1.82	0.61
1:A:168:ASP:HB3	1:A:199:LEU:HD22	1.82	0.61
1:A:2930:LEU:HB3	1:A:2937:VAL:HG21	1.82	0.61
1:A:4581:LYS:HD2	1:C:4856:PHE:HZ	1.65	0.61
1:E:3965:LEU:HD23	1:E:3968:TYR:HD2	1.65	0.61
1:G:264:PRO:HG3	1:G:274:LEU:HD11	1.82	0.61
1:G:554:LEU:HD13	1:G:1596:GLU:HB3	1.82	0.61
1:A:3702:VAL:HG21	1:A:3773:ARG:HB3	1.81	0.61
1:C:674:PHE:HB3	2:D:40:ARG:HH12	1.64	0.61
1:C:1827:ARG:O	1:C:1827:ARG:HG3	2.01	0.61
1:C:4023:MET:O	1:C:4026:MET:HG2	2.00	0.61
1:E:748:LEU:HD11	1:E:753:PRO:HA	1.82	0.61
1:E:2460:LEU:CD1	1:G:178:ARG:NH1	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:PRO:HG3	1:A:274:LEU:HD11	1.82	0.61
1:A:4974:GLY:O	1:A:4977:THR:OG1	2.15	0.61
1:C:1729:SER:HB2	1:C:2163:ARG:NH1	2.15	0.61
1:E:478:PHE:CZ	1:E:483:MET:HB2	2.36	0.61
1:E:2930:LEU:HB3	1:E:2937:VAL:HG21	1.80	0.61
1:A:4124:ASN:OD1	1:A:4125:PHE:N	2.32	0.61
1:A:4856:PHE:HZ	1:G:4581:LYS:HD2	1.64	0.61
1:C:2237:CYS:HB2	1:C:2275:VAL:HG22	1.83	0.61
1:C:3892:CYS:HB3	1:C:3900:GLN:HE21	1.64	0.61
1:E:264:PRO:HG3	1:E:274:LEU:HD11	1.83	0.61
1:E:2237:CYS:HB2	1:E:2275:VAL:HG22	1.82	0.61
1:G:1158:ASN:HB3	1:G:1182:ILE:H	1.65	0.61
1:A:3892:CYS:HB3	1:A:3900:GLN:HE21	1.64	0.61
1:C:467:LYS:O	1:C:470:SER:OG	2.13	0.61
1:C:1835:GLU:CG	1:C:1932:PRO:HG2	2.26	0.61
1:C:2071:ARG:NH2	1:C:3666:ASP:OD2	2.33	0.61
1:G:4027:LEU:HD22	1:G:4044:MET:HE2	1.83	0.61
1:G:4555:LEU:HD22	1:G:4660:GLY:HA3	1.82	0.61
1:G:4847:VAL:HG21	1:G:4928:LEU:HD11	1.83	0.61
1:G:4868:ASP:OD1	1:G:4869:GLU:N	2.32	0.61
1:A:1815:LEU:HD11	1:A:1845:VAL:HG21	1.83	0.61
1:A:3965:LEU:HD23	1:A:3968:TYR:HD2	1.65	0.61
1:A:4023:MET:O	1:A:4026:MET:HG2	2.00	0.61
1:A:4877:ASP:HA	1:G:4581:LYS:HZ3	1.64	0.61
1:C:478:PHE:CZ	1:C:483:MET:HB2	2.35	0.61
1:C:892:THR:H	1:C:902:ARG:HA	1.65	0.61
1:E:1835:GLU:CG	1:E:1932:PRO:HG2	2.26	0.61
1:E:4063:ASP:HA	1:E:4170:ILE:HG12	1.83	0.61
1:G:214:VAL:HA	1:G:341:TYR:CE1	2.36	0.61
1:G:4190:ILE:HD11	1:G:5026:ASP:HB2	1.81	0.61
1:A:18:ASP:HB3	1:A:69:LEU:HD12	1.81	0.61
1:A:178:ARG:NH1	1:G:2460:LEU:CD1	2.64	0.61
1:C:264:PRO:HG3	1:C:274:LEU:HD11	1.83	0.61
1:C:3889:GLN:NE2	1:C:3963:ASN:OD1	2.32	0.61
1:C:3965:LEU:HD23	1:C:3968:TYR:HD2	1.65	0.61
1:C:4172:GLU:HG2	1:C:4175:ARG:NH1	2.15	0.61
1:E:892:THR:H	1:E:902:ARG:HA	1.65	0.61
1:E:1825:HIS:ND1	1:E:1825:HIS:O	2.34	0.61
1:G:702:TRP:CD1	2:H:34:LYS:HZ1	2.18	0.61
1:G:748:LEU:HD11	1:G:753:PRO:HA	1.83	0.61
1:G:892:THR:H	1:G:902:ARG:HA	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:214:VAL:HA	1:A:341:TYR:CE1	2.36	0.61
1:A:4031:LEU:HD11	1:A:4044:MET:SD	2.41	0.61
1:A:4839:MET:HE1	1:G:4822:THR:O	2.00	0.61
1:G:1835:GLU:CG	1:G:1932:PRO:HG2	2.26	0.61
1:G:4642:ALA:O	1:G:4646:LEU:N	2.32	0.61
2:H:48:PHE:HZ	2:H:63:VAL:HG11	1.64	0.61
1:A:478:PHE:CZ	1:A:483:MET:HB2	2.36	0.61
1:A:1856:ASP:H	1:A:1858:ASP:H	1.49	0.61
1:A:2460:LEU:HD21	1:C:131:LEU:HB3	1.82	0.61
1:A:4063:ASP:HA	1:A:4170:ILE:HG12	1.83	0.61
1:C:840:VAL:HG12	1:C:1199:VAL:HG13	1.83	0.61
1:C:1815:LEU:HD11	1:C:1845:VAL:HG21	1.83	0.61
1:E:3893:GLU:HA	1:E:3967:GLU:OE2	2.01	0.61
1:G:1815:LEU:HD11	1:G:1845:VAL:HG21	1.82	0.61
1:C:1825:HIS:ND1	1:C:1825:HIS:O	2.33	0.60
1:C:1856:ASP:H	1:C:1858:ASP:H	1.49	0.60
1:C:4063:ASP:HA	1:C:4170:ILE:HG12	1.83	0.60
1:E:1158:ASN:HB3	1:E:1182:ILE:H	1.65	0.60
1:E:4023:MET:O	1:E:4026:MET:HG2	2.00	0.60
1:G:887:ILE:HG21	1:G:962:SER:HB2	1.83	0.60
1:C:170:ILE:HG12	1:C:197:GLN:HB3	1.81	0.60
1:C:2930:LEU:HB3	1:C:2937:VAL:HG21	1.81	0.60
1:E:533:ASN:OD1	1:E:534:ARG:N	2.34	0.60
1:E:2452:ARG:NH2	1:G:177:GLU:OE2	2.34	0.60
1:G:533:ASN:OD1	1:G:534:ARG:N	2.34	0.60
1:G:3968:TYR:HB2	1:G:3969:ILE:HD12	1.83	0.60
1:A:1853:ILE:O	1:A:1854:PHE:HB2	1.99	0.60
1:C:4031:LEU:HD11	1:C:4044:MET:SD	2.41	0.60
1:C:4826:ILE:HG13	1:E:4839:MET:HE3	1.82	0.60
1:G:1825:HIS:ND1	1:G:1825:HIS:O	2.34	0.60
1:G:1856:ASP:H	1:G:1858:ASP:H	1.49	0.60
1:A:1854:PHE:HB3	1:A:1855:GLY:HA2	1.84	0.60
1:A:2237:CYS:HB2	1:A:2275:VAL:HG22	1.82	0.60
1:C:748:LEU:HD11	1:C:753:PRO:HA	1.82	0.60
1:E:214:VAL:HA	1:E:341:TYR:CE1	2.36	0.60
1:E:299:LEU:HB2	1:E:378:LEU:HG	1.84	0.60
1:E:3771:HIS:HD2	1:E:3812:VAL:HG22	1.65	0.60
1:G:2204:HIS:HB3	1:G:2239:PHE:CE2	2.37	0.60
1:A:1205:GLY:HA2	1:A:1225:PRO:HB2	1.83	0.60
1:A:3771:HIS:HD2	1:A:3812:VAL:HG22	1.64	0.60
1:A:4715:TYR:CE2	1:A:4717:ASP:HB2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1854:PHE:HB3	1:C:1855:GLY:HA2	1.83	0.60
1:E:37:LEU:HD11	1:E:47:CYS:SG	2.42	0.60
1:E:5006:GLN:HA	1:E:5009:TYR:CE2	2.37	0.60
1:G:1854:PHE:HB3	1:G:1855:GLY:HA2	1.84	0.60
1:G:4836:GLN:O	1:G:4839:MET:HG2	2.01	0.60
1:A:748:LEU:HD11	1:A:753:PRO:HA	1.82	0.60
1:A:748:LEU:HD13	1:A:755:ILE:HG13	1.84	0.60
1:A:1825:HIS:ND1	1:A:1825:HIS:O	2.34	0.60
1:A:2204:HIS:HB3	1:A:2239:PHE:CE2	2.37	0.60
1:C:168:ASP:HB3	1:C:199:LEU:HD22	1.83	0.60
1:C:299:LEU:HB2	1:C:378:LEU:HG	1.83	0.60
1:E:168:ASP:HB3	1:E:199:LEU:HD22	1.83	0.60
1:E:674:PHE:CD1	2:F:40:ARG:NH1	2.65	0.60
1:E:840:VAL:HG12	1:E:1199:VAL:HG13	1.83	0.60
1:E:1827:ARG:HG3	1:E:1827:ARG:O	2.00	0.60
1:E:2204:HIS:HB3	1:E:2239:PHE:CE2	2.37	0.60
1:E:2460:LEU:HD21	1:G:131:LEU:CB	2.31	0.60
1:E:4031:LEU:HD11	1:E:4044:MET:SD	2.41	0.60
1:G:4898:GLY:HA2	1:G:4901:ILE:HG22	1.84	0.60
1:A:299:LEU:HB2	1:A:378:LEU:HG	1.83	0.60
1:C:533:ASN:OD1	1:C:534:ARG:N	2.34	0.60
1:C:4715:TYR:CE2	1:C:4717:ASP:HB2	2.36	0.60
1:C:4868:ASP:OD1	1:C:4869:GLU:N	2.32	0.60
1:E:812:HIS:HA	1:E:821:LEU:HD13	1.84	0.60
1:E:2924:GLN:O	1:E:2928:LYS:HB2	2.02	0.60
1:E:4715:TYR:CE2	1:E:4717:ASP:HB2	2.36	0.60
1:C:748:LEU:HD13	1:C:755:ILE:HG13	1.84	0.60
1:C:2204:HIS:HB3	1:C:2239:PHE:CE2	2.37	0.60
1:G:669:ASP:HB3	1:G:788:LYS:NZ	2.16	0.60
1:A:467:LYS:O	1:A:470:SER:OG	2.13	0.60
1:A:533:ASN:OD1	1:A:534:ARG:N	2.34	0.60
1:A:1130:GLN:HE21	1:A:1132:TRP:HE1	1.50	0.60
1:A:1827:ARG:HG3	1:A:1827:ARG:O	2.01	0.60
1:A:2924:GLN:HB3	1:A:2928:LYS:HE2	1.83	0.60
1:A:3938:SER:HB2	1:A:4002:LYS:NZ	2.17	0.60
1:C:214:VAL:HA	1:C:341:TYR:CE1	2.36	0.60
1:C:5006:GLN:HA	1:C:5009:TYR:CE2	2.37	0.60
1:E:215:THR:HG22	1:E:273:HIS:HA	1.84	0.60
1:E:1815:LEU:HD11	1:E:1845:VAL:HG21	1.83	0.60
1:E:1856:ASP:H	1:E:1858:ASP:H	1.50	0.60
1:G:37:LEU:HD11	1:G:47:CYS:SG	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3992:PHE:HB2	1:G:4023:MET:HE1	1.83	0.60
1:G:4948:GLU:O	1:G:4952:GLU:N	2.33	0.60
1:A:669:ASP:HB3	1:A:788:LYS:NZ	2.17	0.59
1:A:887:ILE:HG21	1:A:962:SER:HB2	1.84	0.59
1:A:1158:ASN:HB3	1:A:1182:ILE:H	1.65	0.59
1:C:37:LEU:HD11	1:C:47:CYS:SG	2.42	0.59
1:C:2236:LEU:HD21	1:C:2250:MET:HE2	1.84	0.59
1:C:4806:ASN:O	1:C:4809:PHE:HB3	2.02	0.59
1:E:669:ASP:HB3	1:E:788:LYS:NZ	2.17	0.59
1:A:1514:LEU:HD12	1:A:1514:LEU:N	2.17	0.59
1:C:3771:HIS:HD2	1:C:3812:VAL:HG22	1.65	0.59
1:E:700:GLU:HG3	1:E:707:VAL:HB	1.84	0.59
1:E:1854:PHE:HB3	1:E:1855:GLY:HA2	1.84	0.59
1:E:3959:LYS:HE3	1:E:4018:ASP:HB3	1.84	0.59
1:E:4192:ARG:NH1	1:E:5028:PHE:HB3	2.14	0.59
1:G:2237:CYS:HB2	1:G:2275:VAL:HG22	1.83	0.59
1:A:840:VAL:HG12	1:A:1199:VAL:HG13	1.83	0.59
1:A:3959:LYS:HE3	1:A:4018:ASP:HB3	1.85	0.59
1:A:4896:GLY:HA3	1:G:4892:ARG:NH1	2.17	0.59
1:A:5009:TYR:O	1:A:5013:MET:HG2	2.03	0.59
1:C:1087:ARG:HB3	1:C:1223:PHE:HD1	1.65	0.59
1:E:276:TRP:HA	1:E:316:PHE:HB2	1.85	0.59
1:E:396:GLU:OE2	1:E:474:ARG:HG2	2.03	0.59
1:G:168:ASP:HB3	1:G:199:LEU:HD22	1.83	0.59
1:G:674:PHE:HD1	2:H:40:ARG:HH12	1.47	0.59
1:A:37:LEU:HD11	1:A:47:CYS:SG	2.41	0.59
1:A:80:GLU:OE2	1:G:3935:TRP:O	2.20	0.59
1:A:210:GLU:HB2	1:A:213:TYR:HD2	1.67	0.59
1:A:638:ILE:HG22	1:A:639:ASN:H	1.67	0.59
1:A:2460:LEU:CD1	1:C:178:ARG:NH1	2.65	0.59
1:A:3986:TRP:HZ2	1:A:4040:ILE:HG13	1.66	0.59
1:A:5006:GLN:HA	1:A:5009:TYR:CE2	2.37	0.59
1:C:812:HIS:HA	1:C:821:LEU:HD13	1.84	0.59
1:E:3938:SER:HB2	1:E:4002:LYS:NZ	2.17	0.59
1:E:4141:PHE:HE1	1:E:4178:LEU:HA	1.67	0.59
1:G:215:THR:HG22	1:G:273:HIS:HA	1.84	0.59
1:G:669:ASP:HB3	1:G:788:LYS:HZ1	1.68	0.59
1:G:700:GLU:HG3	1:G:707:VAL:HB	1.85	0.59
1:G:1827:ARG:HG3	1:G:1827:ARG:O	2.01	0.59
1:G:2236:LEU:HD21	1:G:2250:MET:HE2	1.84	0.59
1:G:3893:GLU:HA	1:G:3967:GLU:OE2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:24:VAL:HG12	2:H:103:LEU:HA	1.85	0.59
1:C:210:GLU:HB2	1:C:213:TYR:HD2	1.67	0.59
1:C:669:ASP:HB3	1:C:788:LYS:NZ	2.17	0.59
1:E:717:ASP:OD2	2:F:7:ILE:HA	2.02	0.59
1:E:4940:PHE:CE1	1:G:4931:ILE:HD11	2.38	0.59
1:G:35:LEU:HD11	1:G:49:LEU:HD13	1.84	0.59
1:G:840:VAL:HG12	1:G:1199:VAL:HG13	1.83	0.59
1:G:1806:ALA:O	1:G:1810:LYS:HG2	2.02	0.59
1:G:4573:ILE:O	1:G:4577:LEU:N	2.36	0.59
1:G:4979:THR:O	1:G:4984:ASN:N	2.30	0.59
1:C:396:GLU:OE2	1:C:474:ARG:HG2	2.03	0.59
1:C:3670:GLU:O	1:C:3674:ILE:HG12	2.03	0.59
1:E:2768:PHE:HA	1:E:2771:ILE:HD12	1.84	0.59
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.85	0.59
1:G:5009:TYR:O	1:G:5013:MET:HG2	2.01	0.59
1:A:3893:GLU:HA	1:A:3967:GLU:OE2	2.01	0.59
1:G:4919:THR:O	1:G:4923:PHE:HB2	2.01	0.59
1:A:3670:GLU:O	1:A:3674:ILE:HG12	2.03	0.59
1:A:3965:LEU:HA	1:A:3968:TYR:CD2	2.38	0.59
1:A:4141:PHE:HE1	1:A:4178:LEU:HA	1.67	0.59
1:A:4806:ASN:O	1:A:4809:PHE:HB3	2.03	0.59
1:A:4901:ILE:HD13	1:A:4913:ARG:HH21	1.68	0.59
1:C:1130:GLN:HE21	1:C:1132:TRP:HE1	1.51	0.59
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.85	0.59
1:C:3893:GLU:HA	1:C:3967:GLU:OE2	2.01	0.59
1:C:3938:SER:HB2	1:C:4002:LYS:NZ	2.17	0.59
1:C:3986:TRP:HZ2	1:C:4040:ILE:HG13	1.67	0.59
1:E:35:LEU:HD11	1:E:49:LEU:HD13	1.85	0.59
1:A:2236:LEU:HD21	1:A:2250:MET:HE2	1.84	0.59
1:C:700:GLU:HG3	1:C:707:VAL:HB	1.85	0.59
1:C:1105:ALA:HB1	1:C:1109:LEU:HD21	1.85	0.59
1:C:3839:CYS:HB2	1:C:3881:THR:HG22	1.85	0.59
1:C:3965:LEU:HA	1:C:3968:TYR:CD2	2.38	0.59
1:E:3965:LEU:HA	1:E:3968:TYR:CD2	2.38	0.59
1:E:3986:TRP:HZ2	1:E:4040:ILE:HG13	1.67	0.59
1:G:299:LEU:HB2	1:G:378:LEU:HG	1.83	0.59
1:G:2924:GLN:O	1:G:2928:LYS:HB2	2.03	0.59
1:G:4035:VAL:HG23	1:G:4036:VAL:H	1.67	0.59
1:G:4689:THR:OG1	1:G:4690:GLU:OE1	2.20	0.59
1:A:195:PHE:HE2	1:G:2358:ILE:HG21	1.67	0.59
1:A:696:PRO:HD2	1:A:829:TYR:HE2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1662:PHE:O	1:A:1666:THR:HG23	2.03	0.59
1:A:2768:PHE:HA	1:A:2771:ILE:HD12	1.85	0.59
1:C:4933:GLN:O	1:C:4937:ILE:HG12	2.03	0.59
1:E:2236:LEU:HD21	1:E:2250:MET:HE2	1.85	0.59
2:F:38:SER:HB3	2:F:41:ASP:CG	2.28	0.59
1:G:2288:LEU:O	1:G:3849:ARG:HD3	2.02	0.59
1:G:4782:VAL:O	1:G:4785:THR:OG1	2.17	0.59
1:A:544:LEU:HD11	1:A:578:ILE:HB	1.85	0.58
1:A:2288:LEU:O	1:A:3849:ARG:HD3	2.03	0.58
1:A:3781:GLN:O	1:A:3784:SER:OG	2.19	0.58
1:C:215:THR:HG22	1:C:273:HIS:HA	1.85	0.58
1:C:696:PRO:HD2	1:C:829:TYR:HE2	1.67	0.58
1:C:2460:LEU:HD21	1:E:131:LEU:CB	2.33	0.58
1:C:4141:PHE:HE1	1:C:4178:LEU:HA	1.67	0.58
1:E:248:GLU:HG3	1:E:372:LEU:HD11	1.85	0.58
1:E:1662:PHE:O	1:E:1666:THR:HG23	2.03	0.58
1:E:3839:CYS:HB2	1:E:3881:THR:HG22	1.85	0.58
1:G:248:GLU:HG3	1:G:372:LEU:HD11	1.85	0.58
1:G:396:GLU:OE2	1:G:474:ARG:HG2	2.03	0.58
1:G:1662:PHE:O	1:G:1666:THR:HG23	2.03	0.58
1:G:4039:MET:HA	1:G:4042:ARG:HE	1.67	0.58
1:A:131:LEU:CB	1:G:2460:LEU:HD21	2.32	0.58
1:A:396:GLU:OE2	1:A:474:ARG:HG2	2.03	0.58
1:A:633:LEU:HD21	1:A:1639:LEU:HD13	1.83	0.58
1:A:812:HIS:HA	1:A:821:LEU:HD13	1.84	0.58
1:A:4190:ILE:HD11	1:A:5026:ASP:HB2	1.85	0.58
1:C:633:LEU:HD21	1:C:1639:LEU:HD13	1.84	0.58
1:C:1205:GLY:HA2	1:C:1225:PRO:HB2	1.85	0.58
1:C:3959:LYS:HE3	1:C:4018:ASP:HB3	1.85	0.58
2:D:38:SER:HB3	2:D:41:ASP:CG	2.28	0.58
1:E:618:GLN:OE1	1:E:1675:ALA:HB2	2.03	0.58
1:G:812:HIS:HA	1:G:821:LEU:HD13	1.84	0.58
1:G:2294:ASP:O	1:G:2298:VAL:HG23	2.03	0.58
1:G:4007:SER:O	1:G:4010:ILE:HG12	2.02	0.58
1:A:4192:ARG:NH1	1:A:5028:PHE:HB3	2.14	0.58
1:C:887:ILE:HG21	1:C:962:SER:HB2	1.84	0.58
1:C:2288:LEU:O	1:C:3849:ARG:HD3	2.02	0.58
1:C:3781:GLN:O	1:C:3784:SER:OG	2.19	0.58
1:E:3963:ASN:O	1:E:3966:THR:OG1	2.14	0.58
1:G:633:LEU:HD21	1:G:1639:LEU:HD13	1.84	0.58
1:G:1846:SER:O	1:G:1850:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.03	0.58
1:A:2452:ARG:NH2	1:C:177:GLU:OE2	2.36	0.58
1:C:1662:PHE:O	1:C:1666:THR:HG23	2.03	0.58
1:C:3926:LEU:O	1:C:3930:ILE:HG12	2.04	0.58
1:C:4581:LYS:HD2	1:E:4856:PHE:HZ	1.66	0.58
1:C:5009:TYR:O	1:C:5013:MET:HG2	2.03	0.58
1:E:633:LEU:HD21	1:E:1639:LEU:HD13	1.84	0.58
1:E:1105:ALA:HB1	1:E:1109:LEU:HD21	1.86	0.58
1:E:1130:GLN:HE21	1:E:1132:TRP:HE1	1.51	0.58
1:G:3889:GLN:NE2	1:G:3963:ASN:OD1	2.31	0.58
1:G:4889:VAL:O	1:G:4893:ALA:N	2.30	0.58
1:A:215:THR:HG22	1:A:273:HIS:HA	1.85	0.58
1:A:618:GLN:OE1	1:A:1675:ALA:HB2	2.03	0.58
1:A:2294:ASP:O	1:A:2298:VAL:HG23	2.04	0.58
1:A:2460:LEU:HD21	1:C:131:LEU:CB	2.33	0.58
1:E:748:LEU:HD13	1:E:755:ILE:HG13	1.84	0.58
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.84	0.58
1:E:2288:LEU:O	1:E:3849:ARG:HD3	2.02	0.58
1:G:544:LEU:HD11	1:G:578:ILE:HB	1.85	0.58
1:G:737:LEU:HD11	2:H:7:ILE:HG22	1.85	0.58
1:A:248:GLU:HG3	1:A:372:LEU:HD11	1.86	0.58
1:A:276:TRP:HA	1:A:316:PHE:HB2	1.85	0.58
1:A:1735:ILE:HD12	1:A:1771:LEU:HD12	1.86	0.58
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.85	0.58
1:A:3839:CYS:HB2	1:A:3881:THR:HG22	1.85	0.58
1:A:4770:SER:O	1:A:4772:ASP:N	2.33	0.58
1:C:544:LEU:HD11	1:C:578:ILE:HB	1.85	0.58
1:C:618:GLN:OE1	1:C:1675:ALA:HB2	2.03	0.58
1:E:1806:ALA:O	1:E:1810:LYS:HG2	2.03	0.58
1:E:3670:GLU:O	1:E:3674:ILE:HG12	2.03	0.58
1:G:276:TRP:HA	1:G:316:PHE:HB2	1.84	0.58
1:G:696:PRO:HD2	1:G:829:TYR:HE2	1.67	0.58
1:G:1735:ILE:HD12	1:G:1771:LEU:HD12	1.85	0.58
1:G:2344:GLU:OE2	1:G:2508:ARG:NH2	2.36	0.58
1:G:4910:GLU:HA	1:G:4913:ARG:HG2	1.86	0.58
1:A:674:PHE:CB	2:B:40:ARG:HH12	2.17	0.58
1:C:276:TRP:HA	1:C:316:PHE:HB2	1.85	0.58
1:C:3984:ARG:NH1	1:E:160:GLY:O	2.36	0.58
1:E:4190:ILE:HD11	1:E:5026:ASP:HB2	1.85	0.58
1:A:700:GLU:HG3	1:A:707:VAL:HB	1.85	0.58
1:A:1943:LEU:HA	1:A:1946:PHE:HD2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:38:SER:HB3	2:B:41:ASP:CG	2.28	0.58
1:C:1439:VAL:HG22	1:C:1562:ILE:HG13	1.86	0.58
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.02	0.58
1:E:561:LEU:HD21	1:E:598:LYS:HB3	1.86	0.58
1:E:674:PHE:CB	2:F:40:ARG:HH12	2.16	0.58
1:E:702:TRP:NE1	2:F:34:LYS:HZ1	2.02	0.58
1:E:1846:SER:O	1:E:1850:VAL:HG23	2.03	0.58
1:G:402:ARG:NH1	1:G:405:HIS:HD2	2.02	0.58
1:G:618:GLN:OE1	1:G:1675:ALA:HB2	2.03	0.58
1:G:623:GLU:OE1	2:H:88:PRO:HA	2.03	0.58
1:G:1130:GLN:HE21	1:G:1132:TRP:HE1	1.51	0.58
1:G:1783:VAL:CG1	2:H:55:VAL:HG12	2.34	0.58
1:G:2125:HIS:NE2	1:G:2129:ASP:OD2	2.37	0.58
1:G:2768:PHE:HA	1:G:2771:ILE:HD12	1.84	0.58
1:A:35:LEU:HD11	1:A:49:LEU:HD13	1.84	0.58
1:A:302:VAL:HG21	1:A:306:LYS:HD3	1.86	0.58
1:A:1256:GLU:HG2	1:A:1278:GLY:O	2.04	0.58
1:C:35:LEU:HD11	1:C:49:LEU:HD13	1.85	0.58
1:C:103:TYR:O	1:C:160:GLY:N	2.33	0.58
1:C:4901:ILE:HD13	1:C:4913:ARG:HH21	1.69	0.58
1:E:402:ARG:NH1	1:E:405:HIS:HD2	2.02	0.58
1:G:3931:SER:O	1:G:3934:TYR:HB3	2.04	0.58
1:A:1087:ARG:HB3	1:A:1223:PHE:HD1	1.64	0.58
1:G:4839:MET:O	1:G:4843:LEU:N	2.29	0.58
1:A:3878:ASP:O	1:A:3881:THR:OG1	2.14	0.57
1:C:2294:ASP:O	1:C:2298:VAL:HG23	2.04	0.57
1:E:4901:ILE:HD13	1:E:4913:ARG:HH21	1.69	0.57
1:E:5009:TYR:O	1:E:5013:MET:HG2	2.03	0.57
1:G:2336:ARG:NH1	1:G:2428:ALA:HA	2.19	0.57
1:A:607:CYS:O	1:A:618:GLN:NE2	2.37	0.57
1:A:1439:VAL:HG22	1:A:1562:ILE:HG13	1.86	0.57
1:C:1256:GLU:HG2	1:C:1278:GLY:O	2.04	0.57
1:C:1846:SER:O	1:C:1850:VAL:HG23	2.03	0.57
1:E:696:PRO:HD2	1:E:829:TYR:HE2	1.68	0.57
1:E:2294:ASP:O	1:E:2298:VAL:HG23	2.04	0.57
1:E:3781:GLN:O	1:E:3784:SER:OG	2.19	0.57
1:E:4689:THR:OG1	1:E:4690:GLU:OE1	2.20	0.57
1:G:717:ASP:CG	2:H:7:ILE:HA	2.29	0.57
1:A:103:TYR:O	1:A:160:GLY:N	2.32	0.57
1:A:1846:SER:O	1:A:1850:VAL:HG23	2.03	0.57
1:A:2344:GLU:OE2	1:A:2508:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3926:LEU:O	1:A:3930:ILE:HG12	2.04	0.57
1:C:248:GLU:HG3	1:C:372:LEU:HD11	1.85	0.57
1:C:2344:GLU:OE2	1:C:2508:ARG:NH2	2.38	0.57
1:E:544:LEU:HD11	1:E:578:ILE:HB	1.85	0.57
1:E:607:CYS:HB3	1:E:618:GLN:HE21	1.69	0.57
1:G:1131:ARG:NH1	1:G:1137:GLU:OE1	2.38	0.57
1:G:3897:ASN:HA	1:G:3900:GLN:HB2	1.86	0.57
1:A:4898:GLY:H	1:G:4892:ARG:HH12	1.52	0.57
1:A:4933:GLN:O	1:A:4937:ILE:HG12	2.05	0.57
1:C:1735:ILE:HD12	1:C:1771:LEU:HD12	1.86	0.57
1:C:4190:ILE:HD11	1:C:5026:ASP:HB2	1.85	0.57
1:C:4836:GLN:O	1:C:4839:MET:HG2	2.04	0.57
1:E:4555:LEU:HD11	1:E:4656:LEU:HG	1.87	0.57
1:E:4821:LYS:HD3	1:E:4947:GLN:NE2	2.20	0.57
1:G:1205:GLY:HA2	1:G:1225:PRO:HB2	1.87	0.57
1:G:2870:GLU:OE2	1:G:2939:ARG:NH2	2.38	0.57
1:A:1783:VAL:CG1	2:B:55:VAL:HG12	2.34	0.57
1:C:4555:LEU:HD11	1:C:4656:LEU:HG	1.86	0.57
1:G:748:LEU:HD13	1:G:755:ILE:HG13	1.85	0.57
1:G:4893:ALA:HB1	1:G:4896:GLY:HA2	1.86	0.57
1:C:402:ARG:NH1	1:C:405:HIS:HD2	2.02	0.57
1:C:4782:VAL:O	1:C:4785:THR:OG1	2.21	0.57
1:C:4822:THR:O	1:C:4825:THR:HB	2.04	0.57
1:G:302:VAL:HG21	1:G:306:LYS:HD3	1.86	0.57
1:G:565:TYR:O	1:G:569:ILE:HG12	2.05	0.57
1:G:1105:ALA:HB1	1:G:1109:LEU:HD21	1.85	0.57
1:G:4010:ILE:HA	1:G:4013:LEU:HB3	1.85	0.57
1:A:607:CYS:HB3	1:A:618:GLN:HE21	1.69	0.57
1:A:717:ASP:OD2	2:B:7:ILE:HA	2.04	0.57
1:A:880:GLU:HB3	1:A:967:PRO:HG2	1.86	0.57
1:A:1457:TYR:CG	1:A:1458:HIS:N	2.73	0.57
1:A:4893:ALA:HB1	1:A:4896:GLY:HA2	1.87	0.57
1:C:561:LEU:HD21	1:C:598:LYS:HB3	1.86	0.57
1:C:3878:ASP:O	1:C:3881:THR:OG1	2.14	0.57
1:E:3878:ASP:O	1:E:3881:THR:OG1	2.14	0.57
1:E:3926:LEU:O	1:E:3930:ILE:HG12	2.03	0.57
1:E:4888:TYR:OH	1:G:4898:GLY:CA	2.53	0.57
1:G:3761:GLN:HA	1:G:3764:LEU:HD12	1.87	0.57
1:A:402:ARG:NH1	1:A:405:HIS:HD2	2.02	0.57
1:C:1457:TYR:CG	1:C:1458:HIS:N	2.73	0.57
1:C:2768:PHE:HA	1:C:2771:ILE:HD12	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2922:LYS:C	1:C:2925:GLU:HB2	2.30	0.57
1:C:4793:GLY:HA2	1:C:4796:MET:HG2	1.86	0.57
1:C:4910:GLU:OE2	1:C:4914:VAL:HG21	2.04	0.57
1:E:1131:ARG:NH1	1:E:1137:GLU:OE1	2.38	0.57
1:G:561:LEU:HD21	1:G:598:LYS:HB3	1.87	0.57
1:G:1617:THR:O	1:G:1618:ARG:NH2	2.38	0.57
1:A:229:GLU:HA	1:A:249:GLY:HA2	1.87	0.57
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.20	0.57
1:A:4793:GLY:HA2	1:A:4796:MET:HG2	1.87	0.57
1:E:103:TYR:OH	1:E:167:ASP:OD2	2.23	0.57
1:E:1439:VAL:HG22	1:E:1562:ILE:HG13	1.86	0.57
1:E:4770:SER:O	1:E:4772:ASP:N	2.33	0.57
1:E:4910:GLU:OE2	1:E:4914:VAL:HG21	2.04	0.57
1:E:4933:GLN:O	1:E:4937:ILE:HG12	2.03	0.57
1:G:210:GLU:HB2	1:G:213:TYR:HD2	1.68	0.57
1:G:702:TRP:HE1	2:H:34:LYS:HZ1	1.51	0.57
1:G:1439:VAL:HG22	1:G:1562:ILE:HG13	1.86	0.57
1:G:4154:VAL:HG22	1:G:4157:ASP:OD2	2.04	0.57
1:A:1695:LEU:HA	1:A:1698:LEU:HD13	1.87	0.57
1:C:921:ASN:O	1:C:925:SER:N	2.26	0.57
1:C:4974:GLY:O	1:C:4977:THR:OG1	2.16	0.57
1:E:643:SER:HA	1:E:782:SER:HA	1.87	0.57
1:E:4836:GLN:O	1:E:4839:MET:HG2	2.05	0.57
1:G:1256:GLU:HG2	1:G:1278:GLY:O	2.04	0.57
1:G:4192:ARG:NH1	1:G:5028:PHE:HB3	2.13	0.57
1:G:4924:VAL:HG13	1:G:4928:LEU:HD12	1.87	0.57
1:A:1131:ARG:NH1	1:A:1137:GLU:OE1	2.38	0.56
1:A:1731:LEU:HA	1:A:1772:ARG:HD3	1.87	0.56
1:A:2098:VAL:O	1:A:2102:VAL:HG23	2.05	0.56
1:A:4822:THR:O	1:A:4825:THR:HB	2.05	0.56
1:C:103:TYR:OH	1:C:167:ASP:OD2	2.23	0.56
1:C:476:SER:O	1:C:480:GLU:HG3	2.05	0.56
1:E:533:ASN:HB3	1:E:536:ASN:HD22	1.70	0.56
1:E:1739:THR:O	1:E:1742:THR:OG1	2.21	0.56
1:E:2344:GLU:OE2	1:E:2508:ARG:NH2	2.38	0.56
1:G:1719:HIS:CD2	1:G:1802:ILE:HG23	2.40	0.56
1:A:216:GLY:HA3	1:A:264:PRO:HD3	1.86	0.56
1:A:1439:VAL:O	1:A:1513:ASP:N	2.31	0.56
1:C:302:VAL:HG21	1:C:306:LYS:HD3	1.87	0.56
1:C:702:TRP:NE1	2:D:34:LYS:HZ1	2.02	0.56
1:C:2816:MET:HE3	1:C:2821:TRP:HE3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3935:TRP:HB2	1:E:76:ARG:HG3	1.87	0.56
1:C:4021:LYS:O	1:C:4025:VAL:HG23	2.06	0.56
1:E:210:GLU:HB2	1:E:213:TYR:HD2	1.67	0.56
1:E:216:GLY:HA3	1:E:264:PRO:HD3	1.87	0.56
1:E:607:CYS:O	1:E:618:GLN:NE2	2.37	0.56
1:G:229:GLU:HA	1:G:249:GLY:HA2	1.87	0.56
1:G:1491:ASN:O	1:G:1493:TYR:N	2.38	0.56
1:G:1731:LEU:HA	1:G:1772:ARG:HD3	1.87	0.56
1:G:4974:GLY:O	1:G:4977:THR:OG1	2.17	0.56
1:A:476:SER:O	1:A:480:GLU:HG3	2.05	0.56
1:A:565:TYR:O	1:A:569:ILE:HG12	2.05	0.56
1:A:1105:ALA:HB1	1:A:1109:LEU:HD21	1.86	0.56
1:A:2059:LEU:HB3	1:A:2062:ARG:HH12	1.68	0.56
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.05	0.56
1:A:4154:VAL:HG13	1:A:4160:LEU:HD22	1.87	0.56
1:A:4567:LEU:HD12	1:A:4815:ASP:OD2	2.05	0.56
1:A:4853:VAL:O	1:A:4857:ASN:ND2	2.38	0.56
1:C:607:CYS:O	1:C:618:GLN:NE2	2.37	0.56
1:C:674:PHE:CB	2:D:40:ARG:HH12	2.18	0.56
1:C:1943:LEU:HA	1:C:1946:PHE:HD2	1.70	0.56
1:C:4567:LEU:HD12	1:C:4815:ASP:OD2	2.05	0.56
1:C:4832:HIS:NE2	1:C:4939:ALA:HB1	2.21	0.56
1:E:476:SER:O	1:E:480:GLU:HG3	2.05	0.56
1:E:565:TYR:O	1:E:569:ILE:HG12	2.05	0.56
1:E:1256:GLU:HG2	1:E:1278:GLY:O	2.04	0.56
1:E:1617:THR:O	1:E:1618:ARG:NH2	2.38	0.56
1:E:1862:ILE:O	1:E:1865:MET:HB3	2.06	0.56
1:E:2059:LEU:HB3	1:E:2062:ARG:HH12	1.68	0.56
1:E:4181:ILE:HG12	1:E:4195:PHE:HE1	1.70	0.56
1:E:4782:VAL:O	1:E:4785:THR:OG1	2.21	0.56
1:E:4853:VAL:O	1:E:4857:ASN:ND2	2.38	0.56
1:G:476:SER:O	1:G:480:GLU:HG3	2.05	0.56
1:G:643:SER:HA	1:G:782:SER:HA	1.87	0.56
1:G:1457:TYR:CG	1:G:1458:HIS:N	2.73	0.56
1:G:2191:PHE:HD1	1:G:2198:MET:HE2	1.70	0.56
1:G:4806:ASN:O	1:G:4809:PHE:HB3	2.05	0.56
1:A:561:LEU:HD21	1:A:598:LYS:HB3	1.86	0.56
1:C:1083:VAL:HG11	1:C:1088:TRP:CZ2	2.41	0.56
1:C:1719:HIS:CD2	1:C:1802:ILE:HG23	2.40	0.56
1:C:4192:ARG:NH1	1:C:5028:PHE:HB3	2.15	0.56
1:E:1457:TYR:CG	1:E:1458:HIS:N	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3935:TRP:HB2	1:G:76:ARG:HG3	1.87	0.56
1:E:3984:ARG:NH1	1:G:160:GLY:O	2.35	0.56
1:G:3794:VAL:O	1:G:3797:THR:OG1	2.20	0.56
1:A:103:TYR:OH	1:A:167:ASP:OD2	2.24	0.56
1:A:1719:HIS:CD2	1:A:1802:ILE:HG23	2.40	0.56
1:A:4021:LYS:O	1:A:4025:VAL:HG23	2.06	0.56
1:C:607:CYS:HB3	1:C:618:GLN:HE21	1.70	0.56
1:C:1714:LEU:HA	1:C:1717:SER:HB3	1.88	0.56
1:C:4181:ILE:HG12	1:C:4195:PHE:HE1	1.71	0.56
1:E:224:HIS:HB3	1:E:229:GLU:HG2	1.88	0.56
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.06	0.56
1:G:1695:LEU:HA	1:G:1698:LEU:HD13	1.87	0.56
1:G:4107:GLU:O	1:G:4111:LEU:N	2.38	0.56
1:A:1294:PRO:HB3	1:A:1547:LYS:HB3	1.88	0.56
1:C:533:ASN:HB3	1:C:536:ASN:HD22	1.70	0.56
1:C:643:SER:HA	1:C:782:SER:HA	1.87	0.56
1:C:1491:ASN:O	1:C:1493:TYR:N	2.38	0.56
1:E:302:VAL:HG21	1:E:306:LYS:HD3	1.86	0.56
1:E:1083:VAL:HG11	1:E:1088:TRP:CZ2	2.40	0.56
1:E:1735:ILE:HD12	1:E:1771:LEU:HD12	1.86	0.56
1:G:103:TYR:OH	1:G:167:ASP:OD2	2.23	0.56
1:G:607:CYS:O	1:G:618:GLN:NE2	2.38	0.56
1:G:1943:LEU:HA	1:G:1946:PHE:HD2	1.71	0.56
1:G:4145:VAL:HG13	1:G:4194:TYR:HB2	1.87	0.56
1:G:4181:ILE:HG12	1:G:4195:PHE:HE1	1.69	0.56
1:G:4864:ASN:HB2	1:G:4902:GLU:HG3	1.88	0.56
1:A:643:SER:HA	1:A:782:SER:HA	1.88	0.56
1:A:4910:GLU:OE2	1:A:4914:VAL:HG21	2.06	0.56
1:C:717:ASP:OD2	2:D:7:ILE:HA	2.05	0.56
1:C:2125:HIS:NE2	1:C:2129:ASP:OD2	2.39	0.56
1:C:2191:PHE:HD1	1:C:2198:MET:HE2	1.71	0.56
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.06	0.56
1:E:4898:GLY:HA2	1:E:4901:ILE:HG22	1.87	0.56
1:G:150:MET:SD	1:G:169:LEU:HD22	2.45	0.56
1:G:216:GLY:HA3	1:G:264:PRO:HD3	1.86	0.56
1:G:4574:ASN:ND2	1:G:4813:LEU:HD23	2.21	0.56
1:A:1714:LEU:HA	1:A:1717:SER:HB3	1.88	0.56
1:A:4172:GLU:HG2	1:A:4175:ARG:NH1	2.20	0.56
1:A:4555:LEU:HD11	1:A:4656:LEU:HG	1.86	0.56
1:C:224:HIS:HB3	1:C:229:GLU:HG2	1.88	0.56
1:C:2098:VAL:O	1:C:2102:VAL:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2212:VAL:HG22	1:C:2260:ASN:HD21	1.71	0.56
1:C:3980:LEU:HD22	1:C:3985:LEU:HD22	1.87	0.56
1:E:1205:GLY:HA2	1:E:1225:PRO:HB2	1.88	0.56
1:E:1731:LEU:HA	1:E:1772:ARG:HD3	1.87	0.56
1:E:2125:HIS:NE2	1:E:2129:ASP:OD2	2.39	0.56
1:E:3793:MET:O	1:E:3797:THR:HG23	2.06	0.56
1:E:3965:LEU:O	1:E:3969:ILE:HD12	2.06	0.56
1:G:224:HIS:HB3	1:G:229:GLU:HG2	1.88	0.56
1:G:3814:GLN:HG3	1:G:3815:LYS:N	2.19	0.56
1:A:670:GLU:HB3	1:A:788:LYS:H	1.71	0.56
1:A:921:ASN:O	1:A:925:SER:N	2.26	0.56
1:A:1491:ASN:O	1:A:1493:TYR:N	2.38	0.56
1:A:2191:PHE:HD1	1:A:2198:MET:HE2	1.71	0.56
1:C:565:TYR:O	1:C:569:ILE:HG12	2.05	0.56
1:C:1617:THR:O	1:C:1618:ARG:NH2	2.39	0.56
1:E:150:MET:SD	1:E:169:LEU:HD22	2.45	0.56
1:E:229:GLU:HA	1:E:249:GLY:HA2	1.87	0.56
1:E:2098:VAL:O	1:E:2102:VAL:HG23	2.06	0.56
1:E:2212:VAL:HG22	1:E:2260:ASN:HD21	1.71	0.56
1:E:4007:SER:O	1:E:4010:ILE:HG12	2.05	0.56
1:G:1856:ASP:N	1:G:1857:GLU:HB3	2.21	0.56
1:G:1862:ILE:O	1:G:1865:MET:HB3	2.06	0.56
1:G:3902:TYR:HE1	1:G:3908:GLY:H	1.54	0.56
1:A:1617:THR:O	1:A:1618:ARG:NH2	2.38	0.56
1:A:2816:MET:HE3	1:A:2821:TRP:HE3	1.71	0.56
1:A:4007:SER:O	1:A:4010:ILE:HG12	2.06	0.56
1:C:1585:LYS:HB3	1:C:1587:PRO:HD2	1.88	0.56
1:C:1695:LEU:HA	1:C:1698:LEU:HD13	1.87	0.56
1:C:1856:ASP:N	1:C:1857:GLU:HB3	2.21	0.56
1:C:2137:ALA:HA	1:C:2140:ARG:NH1	2.22	0.56
1:E:1491:ASN:O	1:E:1493:TYR:N	2.38	0.56
1:E:2816:MET:HE3	1:E:2821:TRP:HE3	1.71	0.56
1:G:490:CYS:O	1:G:494:LEU:HG	2.06	0.56
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.06	0.56
1:G:4720:VAL:HA	1:G:4723:LYS:HE2	1.88	0.56
1:A:224:HIS:HB3	1:A:229:GLU:HG2	1.88	0.55
1:A:526:LEU:O	1:A:530:ILE:HG13	2.07	0.55
1:C:880:GLU:HB3	1:C:967:PRO:HG2	1.87	0.55
1:C:1131:ARG:NH1	1:C:1137:GLU:OE1	2.38	0.55
1:C:2358:ILE:HG21	1:E:195:PHE:HE2	1.71	0.55
1:C:3793:MET:O	1:C:3797:THR:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3965:LEU:O	1:C:3969:ILE:HD12	2.05	0.55
1:C:4007:SER:O	1:C:4010:ILE:HG12	2.06	0.55
1:E:4806:ASN:O	1:E:4809:PHE:HB3	2.05	0.55
1:G:2771:ILE:HG23	1:G:2852:ARG:HB2	1.88	0.55
1:A:1708:ARG:HH11	1:A:1712:TYR:HE2	1.54	0.55
1:A:1768:THR:C	1:A:1769:THR:HG1	2.10	0.55
1:A:2276:ALA:O	1:A:2280:VAL:HG23	2.06	0.55
2:B:37:ASP:OD1	2:B:38:SER:N	2.39	0.55
1:C:1839:VAL:HB	1:C:1840:PRO:HD3	1.89	0.55
1:C:2059:LEU:HB3	1:C:2062:ARG:HH12	1.69	0.55
1:C:2191:PHE:HE1	1:C:2239:PHE:HD1	1.54	0.55
1:C:2336:ARG:NH1	1:C:2428:ALA:HA	2.21	0.55
1:C:3786:CYS:SG	1:C:3794:VAL:HG22	2.46	0.55
1:C:3806:ASN:OD1	1:C:3807:GLY:N	2.40	0.55
1:C:4230:LYS:HD2	1:C:4959:PHE:O	2.07	0.55
1:E:2137:ALA:HA	1:E:2140:ARG:NH1	2.21	0.55
1:E:2276:ALA:O	1:E:2280:VAL:HG23	2.06	0.55
1:E:4832:HIS:NE2	1:E:4939:ALA:HB1	2.22	0.55
2:H:49:MET:N	2:H:54:GLU:OE2	2.40	0.55
1:A:533:ASN:HB3	1:A:536:ASN:HD22	1.71	0.55
1:A:1245:PHE:HA	1:A:1604:SER:HA	1.88	0.55
1:A:2212:VAL:HG22	1:A:2260:ASN:HD21	1.71	0.55
1:A:4898:GLY:HA2	1:A:4901:ILE:HG22	1.88	0.55
1:C:229:GLU:HA	1:C:249:GLY:HA2	1.87	0.55
1:C:826:ILE:HG22	1:C:827:LYS:HG2	1.89	0.55
1:C:4581:LYS:HZ3	1:E:4877:ASP:HA	1.72	0.55
1:C:4893:ALA:HB1	1:C:4896:GLY:HA2	1.89	0.55
1:E:2771:ILE:HG23	1:E:2852:ARG:HB2	1.87	0.55
2:F:87:HIS:CE1	2:F:90:ILE:HD13	2.42	0.55
1:G:526:LEU:O	1:G:530:ILE:HG13	2.06	0.55
1:G:607:CYS:HB3	1:G:618:GLN:HE21	1.70	0.55
1:G:1125:ASN:ND2	1:G:1130:GLN:O	2.27	0.55
1:A:2137:ALA:HA	1:A:2140:ARG:NH1	2.21	0.55
1:C:150:MET:SD	1:C:169:LEU:HD22	2.46	0.55
1:C:4689:THR:OG1	1:C:4690:GLU:OE1	2.20	0.55
1:E:490:CYS:O	1:E:494:LEU:HG	2.07	0.55
1:E:1719:HIS:CD2	1:E:1802:ILE:HG23	2.40	0.55
1:E:1856:ASP:N	1:E:1857:GLU:HB3	2.21	0.55
1:E:4230:LYS:HD2	1:E:4959:PHE:O	2.06	0.55
1:E:4241:THR:O	1:E:4244:GLU:HB3	2.06	0.55
1:E:4888:TYR:OH	1:G:4898:GLY:O	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2098:VAL:O	1:G:2102:VAL:HG23	2.06	0.55
1:A:490:CYS:O	1:A:494:LEU:HG	2.07	0.55
1:A:2336:ARG:NH1	1:A:2428:ALA:HA	2.21	0.55
1:A:3760:LYS:O	1:A:3764:LEU:HG	2.07	0.55
1:A:3793:MET:O	1:A:3797:THR:HG23	2.06	0.55
1:A:4181:ILE:HG12	1:A:4195:PHE:HE1	1.71	0.55
1:C:526:LEU:O	1:C:530:ILE:HG13	2.07	0.55
1:C:1930:LYS:O	1:C:1931:LEU:HD12	2.07	0.55
1:C:2758:PHE:HD2	1:C:2809:ILE:HD13	1.72	0.55
1:C:4853:VAL:O	1:C:4857:ASN:ND2	2.38	0.55
2:D:87:HIS:CE1	2:D:90:ILE:HD13	2.42	0.55
1:E:2191:PHE:HE1	1:E:2239:PHE:HD1	1.54	0.55
1:E:2336:ARG:NH1	1:E:2428:ALA:HA	2.22	0.55
1:E:2556:LEU:HD23	1:E:2559:LEU:HD12	1.88	0.55
1:E:4154:VAL:HG13	1:E:4160:LEU:HD22	1.88	0.55
1:G:166:GLY:O	1:G:201:ASN:ND2	2.40	0.55
1:G:533:ASN:HB3	1:G:536:ASN:HD22	1.71	0.55
1:G:1649:ASP:OD1	1:G:1652:GLU:HB2	2.06	0.55
1:G:1937:LEU:HD12	1:G:2116:LEU:HD12	1.88	0.55
1:G:3805:LEU:HB3	1:G:3890:LEU:HB3	1.89	0.55
1:A:1141:ARG:HH12	1:A:1169:LEU:CD1	2.19	0.55
1:A:1667:LEU:HD23	1:A:1710:GLY:HA3	1.89	0.55
1:A:2125:HIS:NE2	1:A:2129:ASP:OD2	2.39	0.55
1:A:3786:CYS:SG	1:A:3794:VAL:HG22	2.46	0.55
1:A:3984:ARG:NH1	1:C:160:GLY:O	2.38	0.55
1:C:490:CYS:O	1:C:494:LEU:HG	2.06	0.55
1:C:1731:LEU:HA	1:C:1772:ARG:HD3	1.87	0.55
1:C:1862:ILE:O	1:C:1865:MET:HB3	2.06	0.55
1:C:2556:LEU:HD23	1:C:2559:LEU:HD12	1.88	0.55
1:E:826:ILE:HG22	1:E:827:LYS:HG2	1.89	0.55
1:E:3786:CYS:SG	1:E:3794:VAL:HG22	2.46	0.55
1:E:4567:LEU:HD12	1:E:4815:ASP:OD2	2.06	0.55
1:G:212:GLY:O	1:G:340:LYS:HA	2.07	0.55
1:G:1083:VAL:HG11	1:G:1088:TRP:CZ2	2.41	0.55
1:A:1862:ILE:O	1:A:1865:MET:HB3	2.06	0.55
1:A:2556:LEU:HD23	1:A:2559:LEU:HD12	1.88	0.55
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.05	0.55
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.06	0.55
1:G:1585:LYS:HB3	1:G:1587:PRO:HD2	1.88	0.55
1:G:1714:LEU:HA	1:G:1717:SER:HB3	1.88	0.55
1:A:702:TRP:NE1	2:B:34:LYS:HZ1	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1828:ASP:HB3	1:A:1829:PRO:C	2.32	0.55
1:A:3806:ASN:OD1	1:A:3807:GLY:N	2.40	0.55
1:A:4077:PHE:CZ	1:A:4125:PHE:HA	2.42	0.55
1:C:2276:ALA:O	1:C:2280:VAL:HG23	2.06	0.55
1:C:4154:VAL:HG13	1:C:4160:LEU:HD22	1.88	0.55
1:C:4241:THR:O	1:C:4244:GLU:HB3	2.07	0.55
1:C:4898:GLY:HA2	1:C:4901:ILE:HG22	1.87	0.55
1:E:887:ILE:HG21	1:E:962:SER:HB2	1.89	0.55
1:E:1783:VAL:CG1	2:F:55:VAL:HG12	2.37	0.55
1:E:1930:LYS:O	1:E:1931:LEU:HD12	2.07	0.55
1:G:1143:TRP:HB3	1:G:1164:LEU:CD1	2.37	0.55
2:H:25:HIS:O	2:H:102:GLU:N	2.35	0.55
1:A:212:GLY:O	1:A:340:LYS:HA	2.07	0.55
1:A:1083:VAL:HG11	1:A:1088:TRP:CZ2	2.42	0.55
1:A:1856:ASP:N	1:A:1857:GLU:HB3	2.21	0.55
1:A:3965:LEU:O	1:A:3969:ILE:HD12	2.07	0.55
1:C:216:GLY:HA3	1:C:264:PRO:HD3	1.87	0.55
1:C:915:GLU:HB3	1:C:923:GLN:HB2	1.89	0.55
1:C:4864:ASN:HB2	1:C:4902:GLU:HG3	1.89	0.55
1:E:669:ASP:HB3	1:E:788:LYS:HZ1	1.72	0.55
1:E:702:TRP:HD1	2:F:34:LYS:NZ	2.01	0.55
1:E:915:GLU:HB3	1:E:923:GLN:HB2	1.88	0.55
1:E:1143:TRP:HB3	1:E:1164:LEU:CD1	2.37	0.55
1:E:2924:GLN:HB3	1:E:2928:LYS:HE2	1.89	0.55
1:G:1245:PHE:HA	1:G:1604:SER:HA	1.89	0.55
1:G:1712:TYR:HD2	1:G:1840:PRO:HB2	1.72	0.55
1:G:1930:LYS:O	1:G:1931:LEU:HD12	2.07	0.55
1:G:2212:VAL:HG22	1:G:2260:ASN:HD21	1.72	0.55
2:H:27:THR:HG22	2:H:100:ASP:HB3	1.88	0.55
1:A:512:ALA:O	1:A:515:TRP:HB3	2.07	0.55
1:A:915:GLU:HB3	1:A:923:GLN:HB2	1.89	0.55
1:A:4581:LYS:HZ3	1:C:4877:ASP:HA	1.72	0.55
1:C:790:ARG:HA	1:C:1627:ALA:HA	1.89	0.55
1:C:5027:CYS:HB3	1:C:5030:LYS:HB3	1.89	0.55
1:E:1695:LEU:HA	1:E:1698:LEU:HD13	1.87	0.55
1:E:1714:LEU:HA	1:E:1717:SER:HB3	1.88	0.55
1:E:1810:LYS:HD3	1:E:1813:ARG:HH12	1.72	0.55
1:E:3760:LYS:O	1:E:3764:LEU:HG	2.07	0.55
1:E:5027:CYS:HB3	1:E:5030:LYS:HB3	1.89	0.55
2:F:37:ASP:OD1	2:F:38:SER:N	2.39	0.55
1:G:1839:VAL:HB	1:G:1840:PRO:HD3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1930:LYS:O	1:A:1931:LEU:HD12	2.07	0.54
1:C:1245:PHE:HA	1:C:1604:SER:HA	1.88	0.54
1:E:512:ALA:O	1:E:515:TRP:HB3	2.06	0.54
1:E:674:PHE:HD1	2:F:40:ARG:HH12	1.52	0.54
1:E:1585:LYS:HB3	1:E:1587:PRO:HD2	1.88	0.54
1:E:1714:LEU:O	1:E:1718:ILE:HG12	2.07	0.54
2:F:38:SER:HB3	2:F:41:ASP:OD2	2.07	0.54
1:G:880:GLU:HB3	1:G:967:PRO:HG2	1.87	0.54
1:G:915:GLU:HB3	1:G:923:GLN:HB2	1.89	0.54
1:G:1708:ARG:HH11	1:G:1712:TYR:HE2	1.55	0.54
1:G:2191:PHE:HE1	1:G:2239:PHE:HD1	1.53	0.54
1:G:2276:ALA:O	1:G:2280:VAL:HG23	2.06	0.54
2:H:37:ASP:OD1	2:H:38:SER:N	2.41	0.54
2:H:67:SER:N	2:H:70:GLN:OE1	2.33	0.54
1:A:1243:PRO:HB3	1:A:1606:SER:HA	1.90	0.54
1:A:2771:ILE:HG23	1:A:2852:ARG:HB2	1.89	0.54
1:A:4826:ILE:HG13	1:C:4839:MET:HE3	1.86	0.54
1:A:4832:HIS:NE2	1:A:4939:ALA:HB1	2.22	0.54
2:B:38:SER:HB3	2:B:41:ASP:OD2	2.07	0.54
1:C:670:GLU:HB3	1:C:788:LYS:H	1.71	0.54
1:C:1143:TRP:HB3	1:C:1164:LEU:CD1	2.37	0.54
1:E:645:ARG:HD3	1:E:826:ILE:HG13	1.90	0.54
1:E:1245:PHE:HA	1:E:1604:SER:HA	1.89	0.54
1:E:3806:ASN:OD1	1:E:3807:GLY:N	2.40	0.54
1:E:4849:TYR:O	1:E:4853:VAL:HG23	2.06	0.54
1:G:826:ILE:HG22	1:G:827:LYS:HG2	1.89	0.54
1:G:1739:THR:O	1:G:1742:THR:OG1	2.20	0.54
1:G:2059:LEU:HB3	1:G:2062:ARG:HH12	1.69	0.54
1:G:2137:ALA:HA	1:G:2140:ARG:NH1	2.22	0.54
1:G:3774:GLY:HA2	1:G:3815:LYS:NZ	2.22	0.54
1:A:4241:THR:O	1:A:4244:GLU:HB3	2.06	0.54
1:A:4666:VAL:HB	1:A:4667:PRO:HD3	1.89	0.54
1:C:37:LEU:HB2	1:C:200:TRP:CZ3	2.43	0.54
1:C:834:PRO:HD2	1:C:838:HIS:HE2	1.73	0.54
1:C:1111:PRO:HG3	1:C:1609:PRO:HG3	1.89	0.54
1:C:1457:TYR:C	1:C:1458:HIS:CG	2.86	0.54
1:C:1714:LEU:O	1:C:1718:ILE:HG12	2.08	0.54
2:D:37:ASP:OD1	2:D:38:SER:N	2.40	0.54
1:E:622:THR:HB	1:E:626:LEU:HD12	1.89	0.54
1:E:2191:PHE:HD1	1:E:2198:MET:HE2	1.71	0.54
1:E:4077:PHE:CZ	1:E:4125:PHE:HA	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4928:LEU:O	1:E:4931:ILE:HG22	2.08	0.54
1:G:739:ALA:O	1:G:741:GLU:N	2.40	0.54
1:G:834:PRO:HD2	1:G:838:HIS:HE2	1.72	0.54
1:G:1111:PRO:HG3	1:G:1609:PRO:HG3	1.89	0.54
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.06	0.54
1:C:645:ARG:HD3	1:C:826:ILE:HG13	1.89	0.54
1:C:1294:PRO:HB3	1:C:1547:LYS:HB3	1.89	0.54
1:C:2496:PRO:HB3	1:C:2552:ARG:HD2	1.90	0.54
2:D:38:SER:HB3	2:D:41:ASP:OD2	2.07	0.54
1:E:526:LEU:O	1:E:530:ILE:HG13	2.07	0.54
1:E:1943:LEU:HA	1:E:1946:PHE:HD2	1.71	0.54
1:E:4864:ASN:HB2	1:E:4902:GLU:HG3	1.90	0.54
1:G:512:ALA:O	1:G:515:TRP:HB3	2.07	0.54
1:G:4222:VAL:HG11	1:G:4950:VAL:HA	1.89	0.54
1:G:4580:TYR:HB2	1:G:4631:PHE:HD1	1.73	0.54
1:A:37:LEU:HB2	1:A:200:TRP:CZ3	2.42	0.54
1:A:1438:ARG:HA	1:A:1514:LEU:HA	1.90	0.54
1:A:1585:LYS:HB3	1:A:1587:PRO:HD2	1.88	0.54
1:A:1810:LYS:HD3	1:A:1813:ARG:HH12	1.71	0.54
1:A:2191:PHE:HE1	1:A:2239:PHE:HD1	1.54	0.54
1:C:166:GLY:O	1:C:201:ASN:ND2	2.40	0.54
1:C:1810:LYS:HD3	1:C:1813:ARG:HH12	1.72	0.54
1:C:4077:PHE:CZ	1:C:4125:PHE:HA	2.42	0.54
1:E:1667:LEU:HD23	1:E:1710:GLY:HA3	1.89	0.54
1:G:670:GLU:HB3	1:G:788:LYS:H	1.71	0.54
1:G:1714:LEU:O	1:G:1718:ILE:HG12	2.07	0.54
1:G:4664:LEU:O	1:G:4667:PRO:HD2	2.08	0.54
1:G:4844:LEU:HD11	1:G:4891:VAL:HG13	1.88	0.54
1:A:645:ARG:HD3	1:A:826:ILE:HG13	1.90	0.54
1:A:650:VAL:O	1:A:777:PHE:N	2.41	0.54
1:A:1714:LEU:O	1:A:1718:ILE:HG12	2.07	0.54
1:A:2515:GLN:NE2	1:A:2608:MET:O	2.40	0.54
1:C:512:ALA:O	1:C:515:TRP:HB3	2.07	0.54
1:E:103:TYR:O	1:E:160:GLY:N	2.33	0.54
1:E:670:GLU:HB3	1:E:788:LYS:H	1.71	0.54
1:E:790:ARG:HA	1:E:1627:ALA:HA	1.89	0.54
1:E:834:PRO:HD2	1:E:838:HIS:HE2	1.73	0.54
1:E:1649:ASP:OD1	1:E:1652:GLU:HB2	2.07	0.54
1:G:37:LEU:HB2	1:G:200:TRP:CZ3	2.42	0.54
1:G:645:ARG:HD3	1:G:826:ILE:HG13	1.90	0.54
1:G:1294:PRO:HB3	1:G:1547:LYS:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.07	0.54
1:G:4770:SER:O	1:G:4772:ASP:N	2.33	0.54
1:G:4965:SER:HA	1:G:4975:PHE:CD1	2.43	0.54
1:G:5009:TYR:O	1:G:5013:MET:N	2.39	0.54
2:H:58:GLY:HA3	2:H:76:ILE:HG23	1.90	0.54
1:A:3980:LEU:HD22	1:A:3985:LEU:HD22	1.88	0.54
1:A:4720:VAL:HA	1:A:4723:LYS:NZ	2.23	0.54
1:C:116:MET:HA	1:C:139:GLU:HA	1.90	0.54
1:C:563:VAL:O	1:C:567:VAL:HG23	2.08	0.54
1:C:622:THR:HB	1:C:626:LEU:HD12	1.90	0.54
1:C:1808:ARG:HB2	1:C:1854:PHE:CE1	2.43	0.54
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	1.89	0.54
1:E:212:GLY:O	1:E:340:LYS:HA	2.08	0.54
1:G:103:TYR:O	1:G:160:GLY:N	2.33	0.54
1:G:622:THR:HB	1:G:626:LEU:HD12	1.90	0.54
1:G:688:LEU:HG	1:G:710:ASP:HB3	1.90	0.54
1:G:1808:ARG:HB2	1:G:1854:PHE:CE1	2.43	0.54
1:G:4024:VAL:HA	1:G:4027:LEU:HD12	1.89	0.54
2:H:87:HIS:CE1	2:H:90:ILE:HD13	2.43	0.54
1:A:559:GLY:O	1:A:563:VAL:HG23	2.08	0.54
1:A:1046:LEU:O	1:A:1050:GLY:N	2.41	0.54
1:A:1143:TRP:HB3	1:A:1164:LEU:CD1	2.37	0.54
1:A:1457:TYR:C	1:A:1458:HIS:CG	2.86	0.54
1:A:4921:PHE:CE2	1:G:4892:ARG:HA	2.43	0.54
2:B:87:HIS:CE1	2:B:90:ILE:HD13	2.42	0.54
1:C:212:GLY:O	1:C:340:LYS:HA	2.07	0.54
1:C:1205:GLY:HA3	1:C:1227:ALA:H	1.73	0.54
1:E:166:GLY:O	1:E:201:ASN:ND2	2.41	0.54
1:E:1243:PRO:HB3	1:E:1606:SER:HA	1.90	0.54
1:E:1292:SER:HB2	1:E:1602:PRO:HG3	1.90	0.54
1:E:3930:ILE:HG22	1:E:3995:VAL:HG11	1.89	0.54
1:E:4793:GLY:HA2	1:E:4796:MET:HG2	1.90	0.54
1:A:116:MET:HA	1:A:139:GLU:HA	1.90	0.54
1:A:150:MET:SD	1:A:169:LEU:HD22	2.47	0.54
1:A:166:GLY:O	1:A:201:ASN:ND2	2.40	0.54
1:A:826:ILE:HG22	1:A:827:LYS:HG2	1.90	0.54
1:A:1649:ASP:OD1	1:A:1652:GLU:HB2	2.07	0.54
1:A:1937:LEU:HD12	1:A:2116:LEU:HD12	1.90	0.54
1:C:559:GLY:O	1:C:563:VAL:HG23	2.08	0.54
1:C:705:ASN:OD1	1:C:706:GLY:N	2.41	0.54
1:C:1125:ASN:ND2	1:C:1130:GLN:O	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1805:GLU:OE1	1:C:1808:ARG:NE	2.35	0.54
1:C:1828:ASP:HB3	1:C:1829:PRO:C	2.32	0.54
1:C:2771:ILE:HG23	1:C:2852:ARG:HB2	1.89	0.54
1:E:688:LEU:HG	1:E:710:ASP:HB3	1.90	0.54
1:E:4044:MET:HA	1:E:4047:MET:HG2	1.90	0.54
1:E:4666:VAL:HB	1:E:4667:PRO:HD3	1.90	0.54
1:G:1141:ARG:HH12	1:G:1169:LEU:CD1	2.20	0.54
1:G:1243:PRO:HB3	1:G:1606:SER:HA	1.90	0.54
1:G:1810:LYS:HD3	1:G:1813:ARG:HH12	1.72	0.54
1:A:790:ARG:HA	1:A:1627:ALA:HA	1.89	0.54
1:A:4044:MET:HA	1:A:4047:MET:HG2	1.90	0.54
1:A:4161:ARG:HA	1:A:4164:LEU:HB3	1.90	0.54
1:A:5027:CYS:HB3	1:A:5030:LYS:HB3	1.89	0.54
1:C:2134:LEU:O	1:C:2138:LEU:HG	2.08	0.54
1:C:3767:GLN:OE1	1:C:3809:ASN:ND2	2.34	0.54
1:E:705:ASN:OD1	1:E:706:GLY:N	2.41	0.54
1:E:1457:TYR:CZ	1:E:1459:GLN:NE2	2.76	0.54
1:E:1457:TYR:C	1:E:1458:HIS:CG	2.86	0.54
1:E:1712:TYR:HD2	1:E:1840:PRO:HB2	1.73	0.54
1:E:2758:PHE:HD2	1:E:2809:ILE:HD13	1.72	0.54
1:E:3935:TRP:O	1:G:80:GLU:OE2	2.26	0.54
1:G:705:ASN:OD1	1:G:706:GLY:N	2.41	0.54
1:G:1457:TYR:C	1:G:1458:HIS:CG	2.86	0.54
1:G:2158:CYS:SG	1:G:2184:ASN:ND2	2.81	0.54
1:G:2927:LEU:HD22	1:G:2937:VAL:HG11	1.90	0.54
1:C:1783:VAL:CG1	2:D:55:VAL:HG12	2.38	0.53
1:C:4044:MET:HA	1:C:4047:MET:HG2	1.90	0.53
1:C:4699:GLY:HA2	1:C:4702:ASP:HB2	1.90	0.53
1:C:4798:MET:SD	1:C:4801:LEU:HD12	2.48	0.53
1:C:4823:LEU:HA	1:C:4826:ILE:HD12	1.90	0.53
2:D:18:ARG:NH1	2:D:51:GLY:HA3	2.24	0.53
2:D:25:HIS:CG	2:D:40:ARG:HE	2.27	0.53
1:E:650:VAL:O	1:E:777:PHE:N	2.40	0.53
1:E:1839:VAL:HB	1:E:1840:PRO:HD3	1.90	0.53
1:E:1937:LEU:HD12	1:E:2116:LEU:HD12	1.91	0.53
1:G:1073:ARG:C	1:G:1074:ILE:HG13	2.33	0.53
1:G:3780:LEU:HD12	1:G:3816:MET:HE2	1.90	0.53
1:A:45:ARG:NH2	1:A:139:GLU:OE2	2.42	0.53
1:A:1808:ARG:HB2	1:A:1854:PHE:CE1	2.43	0.53
1:A:2758:PHE:HD2	1:A:2809:ILE:HD13	1.72	0.53
1:A:4230:LYS:HD2	1:A:4959:PHE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4823:LEU:HA	1:A:4826:ILE:HD12	1.90	0.53
1:C:45:ARG:NH2	1:C:139:GLU:OE2	2.42	0.53
1:C:1243:PRO:HB3	1:C:1606:SER:HA	1.90	0.53
1:C:1292:SER:HB2	1:C:1602:PRO:HG3	1.91	0.53
1:C:1562:ILE:HG12	1:C:1563:GLN:O	2.09	0.53
1:C:2186:MET:HE3	1:C:2235:PHE:CD1	2.43	0.53
1:E:739:ALA:O	1:E:741:GLU:N	2.42	0.53
1:E:1808:ARG:HB2	1:E:1854:PHE:CE1	2.43	0.53
1:E:3767:GLN:OE1	1:E:3809:ASN:ND2	2.34	0.53
1:G:2095:GLN:HG3	1:G:2127:GLN:OE1	2.08	0.53
1:G:2099:SER:O	1:G:2103:VAL:HG23	2.08	0.53
1:G:3768:SER:HA	1:G:3771:HIS:HB3	1.89	0.53
1:A:1292:SER:HB2	1:A:1602:PRO:HG3	1.90	0.53
1:A:1712:TYR:HD2	1:A:1840:PRO:HB2	1.73	0.53
1:A:1839:VAL:HB	1:A:1840:PRO:HD3	1.90	0.53
1:C:400:ALA:O	1:C:404:ILE:HG13	2.09	0.53
1:C:650:VAL:O	1:C:777:PHE:N	2.41	0.53
1:C:1436:SER:HA	1:C:1515:VAL:O	2.08	0.53
1:C:1649:ASP:OD1	1:C:1652:GLU:HB2	2.07	0.53
1:C:1739:THR:O	1:C:1742:THR:OG1	2.21	0.53
1:C:1830:VAL:HG12	1:C:1834:VAL:HA	1.90	0.53
1:C:1833:SER:O	1:C:1835:GLU:N	2.41	0.53
1:C:3760:LYS:O	1:C:3764:LEU:HG	2.07	0.53
1:C:3841:VAL:HG12	1:C:3843:ASP:H	1.73	0.53
1:C:4720:VAL:HA	1:C:4723:LYS:NZ	2.23	0.53
1:E:110:ARG:HG2	1:E:117:TYR:CD1	2.44	0.53
1:E:3841:VAL:HG12	1:E:3843:ASP:H	1.73	0.53
1:E:3980:LEU:HD22	1:E:3985:LEU:HD22	1.89	0.53
1:G:102:LEU:HB2	1:G:105:HIS:HD2	1.72	0.53
1:G:110:ARG:HG2	1:G:117:TYR:CD1	2.43	0.53
1:G:790:ARG:HA	1:G:1627:ALA:HA	1.89	0.53
1:G:1562:ILE:HG12	1:G:1563:GLN:O	2.09	0.53
1:G:1667:LEU:HD23	1:G:1710:GLY:HA3	1.90	0.53
1:G:1830:VAL:HG12	1:G:1834:VAL:HA	1.90	0.53
1:G:2214:VAL:HG11	1:G:2229:VAL:HG21	1.90	0.53
1:G:3984:ARG:O	1:G:3986:TRP:N	2.41	0.53
1:A:1073:ARG:C	1:A:1074:ILE:HG13	2.34	0.53
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	1.89	0.53
1:C:138:GLN:HG2	1:C:140:ASP:H	1.73	0.53
1:C:739:ALA:O	1:C:741:GLU:N	2.41	0.53
1:C:1141:ARG:HH12	1:C:1169:LEU:CD1	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:37:LEU:HB2	1:E:200:TRP:CZ3	2.43	0.53
1:E:1125:ASN:ND2	1:E:1130:GLN:O	2.27	0.53
1:E:1294:PRO:HB3	1:E:1547:LYS:HB3	1.91	0.53
1:E:1439:VAL:O	1:E:1512:THR:HB	2.08	0.53
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.90	0.53
1:E:1729:SER:O	1:E:1732:SER:OG	2.19	0.53
1:E:4956:THR:O	1:E:4965:SER:N	2.42	0.53
1:G:116:MET:HA	1:G:139:GLU:HA	1.90	0.53
1:G:314:PHE:HE1	1:G:378:LEU:HD21	1.73	0.53
1:G:1828:ASP:HB3	1:G:1829:PRO:C	2.33	0.53
1:G:3905:THR:HG23	1:G:3907:THR:HG23	1.90	0.53
1:G:4242:ILE:O	1:G:4246:GLN:HG2	2.09	0.53
2:H:38:SER:HB3	2:H:41:ASP:CG	2.33	0.53
1:A:563:VAL:O	1:A:567:VAL:HG23	2.08	0.53
1:A:705:ASN:OD1	1:A:706:GLY:N	2.41	0.53
1:A:1679:ASN:O	1:A:1683:HIS:ND1	2.41	0.53
1:A:4798:MET:SD	1:A:4801:LEU:HD12	2.49	0.53
1:E:638:ILE:HG22	1:E:639:ASN:N	2.24	0.53
1:E:2099:SER:O	1:E:2103:VAL:HG23	2.09	0.53
1:E:4849:TYR:HA	1:E:4852:THR:HG22	1.90	0.53
1:G:45:ARG:NH2	1:G:139:GLU:OE2	2.42	0.53
1:G:1046:LEU:O	1:G:1050:GLY:N	2.41	0.53
1:G:1240:LYS:O	1:G:1607:ARG:HA	2.09	0.53
1:G:2186:MET:HE3	1:G:2235:PHE:CD1	2.44	0.53
1:G:4251:ILE:HG22	1:G:4557:ARG:HH11	1.74	0.53
1:A:24:CYS:SG	1:A:26:ALA:HB2	2.49	0.53
1:A:622:THR:HB	1:A:626:LEU:HD12	1.90	0.53
1:A:2099:SER:O	1:A:2103:VAL:HG23	2.08	0.53
1:A:2496:PRO:HB3	1:A:2552:ARG:HD2	1.90	0.53
2:B:16:PRO:HD3	2:B:66:MET:O	2.09	0.53
1:C:1641:ILE:HG23	1:C:1643:GLU:O	2.09	0.53
1:C:1667:LEU:HD23	1:C:1710:GLY:HA3	1.90	0.53
1:C:1712:TYR:HD2	1:C:1840:PRO:HB2	1.73	0.53
1:C:2099:SER:O	1:C:2103:VAL:HG23	2.09	0.53
1:C:4161:ARG:HA	1:C:4164:LEU:HB3	1.91	0.53
1:E:138:GLN:HG2	1:E:140:ASP:H	1.73	0.53
1:E:563:VAL:O	1:E:567:VAL:HG23	2.08	0.53
1:E:2496:PRO:HB3	1:E:2552:ARG:HD2	1.91	0.53
1:E:4161:ARG:HA	1:E:4164:LEU:HB3	1.90	0.53
1:E:4699:GLY:HA2	1:E:4702:ASP:HB2	1.91	0.53
1:G:33:LEU:HD21	1:G:51:PRO:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:674:PHE:HZ	2:H:71:ARG:NE	2.05	0.53
1:A:80:GLU:CD	1:G:3938:SER:HG	2.15	0.53
1:A:400:ALA:O	1:A:404:ILE:HG13	2.09	0.53
1:A:3841:VAL:HG12	1:A:3843:ASP:H	1.73	0.53
1:A:4928:LEU:O	1:A:4931:ILE:HG22	2.08	0.53
1:C:4928:LEU:O	1:C:4931:ILE:HG22	2.08	0.53
1:E:314:PHE:HE1	1:E:378:LEU:HD21	1.74	0.53
1:E:1073:ARG:C	1:E:1074:ILE:HG13	2.34	0.53
1:E:1079:LYS:NZ	1:E:1107:PRO:HB2	2.23	0.53
1:E:1830:VAL:HG12	1:E:1834:VAL:HA	1.91	0.53
1:E:2095:GLN:HG3	1:E:2127:GLN:OE1	2.08	0.53
1:E:2515:GLN:NE2	1:E:2608:MET:O	2.40	0.53
1:G:563:VAL:O	1:G:567:VAL:HG23	2.07	0.53
1:G:636:ASN:OD1	1:G:637:LEU:N	2.42	0.53
1:G:1205:GLY:HA3	1:G:1227:ALA:H	1.74	0.53
1:G:4666:VAL:HB	1:G:4667:PRO:HD3	1.91	0.53
1:A:314:PHE:HE1	1:A:378:LEU:HD21	1.73	0.53
1:A:1111:PRO:HG3	1:A:1609:PRO:HG3	1.89	0.53
1:A:1562:ILE:HG12	1:A:1563:GLN:O	2.09	0.53
1:A:2134:LEU:O	1:A:2138:LEU:HG	2.09	0.53
1:A:4864:ASN:HB2	1:A:4902:GLU:HG3	1.89	0.53
1:C:638:ILE:HG22	1:C:639:ASN:N	2.24	0.53
1:C:688:LEU:HG	1:C:710:ASP:HB3	1.90	0.53
1:C:1079:LYS:NZ	1:C:1107:PRO:HB2	2.24	0.53
1:C:1477:GLY:HA2	1:C:1483:VAL:HA	1.90	0.53
1:C:2924:GLN:HB3	1:C:2928:LYS:HE2	1.91	0.53
1:E:45:ARG:NH2	1:E:139:GLU:OE2	2.42	0.53
1:E:559:GLY:O	1:E:563:VAL:HG23	2.08	0.53
1:E:1111:PRO:HG3	1:E:1609:PRO:HG3	1.90	0.53
1:E:1259:ARG:NH2	1:E:1599:MET:O	2.42	0.53
1:E:1805:GLU:OE1	1:E:1808:ARG:NE	2.35	0.53
1:E:2186:MET:HE3	1:E:2235:PHE:CD1	2.44	0.53
1:E:2745:VAL:HG21	1:E:2818:ALA:HB2	1.91	0.53
1:E:4154:VAL:HG13	1:E:4154:VAL:O	2.08	0.53
1:G:400:ALA:O	1:G:404:ILE:HG13	2.09	0.53
1:G:1641:ILE:HG23	1:G:1643:GLU:O	2.09	0.53
1:G:4702:ASP:O	1:G:4705:VAL:HG12	2.07	0.53
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.23	0.53
1:A:597:HIS:NE2	1:A:598:LYS:NZ	2.57	0.53
1:A:4699:GLY:HA2	1:A:4702:ASP:HB2	1.89	0.53
1:A:4821:LYS:HD3	1:A:4947:GLN:NE2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:25:HIS:CG	2:B:40:ARG:HE	2.27	0.53
1:C:1072:VAL:HB	1:C:1607:ARG:HH12	1.74	0.53
2:D:16:PRO:HD3	2:D:66:MET:O	2.09	0.53
1:E:1767:VAL:C	1:E:1768:THR:HG1	2.17	0.53
1:E:1828:ASP:HB3	1:E:1829:PRO:C	2.33	0.53
1:G:597:HIS:NE2	1:G:598:LYS:NZ	2.57	0.53
1:G:650:VAL:O	1:G:777:PHE:N	2.41	0.53
1:G:2205:GLU:O	1:G:2209:GLU:HG2	2.09	0.53
1:G:2515:GLN:NE2	1:G:2608:MET:O	2.40	0.53
1:G:4004:ALA:HB3	1:G:4110:PHE:HZ	1.73	0.53
1:G:4217:PHE:HZ	1:G:4234:PHE:HA	1.74	0.53
1:A:636:ASN:ND2	2:B:35:LYS:HD3	2.24	0.53
1:A:674:PHE:HD1	2:B:40:ARG:HH12	1.52	0.53
1:A:1125:ASN:ND2	1:A:1130:GLN:O	2.27	0.53
1:A:1805:GLU:OE1	1:A:1808:ARG:NE	2.35	0.53
1:A:2158:CYS:SG	1:A:2184:ASN:ND2	2.82	0.53
1:A:2214:VAL:HG11	1:A:2229:VAL:HG21	1.91	0.53
1:C:110:ARG:HG2	1:C:117:TYR:CD1	2.44	0.53
1:C:229:GLU:HG3	1:C:248:GLU:C	2.34	0.53
1:C:1073:ARG:C	1:C:1074:ILE:HG13	2.33	0.53
1:C:2515:GLN:NE2	1:C:2608:MET:O	2.40	0.53
1:C:4727:LYS:HZ1	1:C:4728:HIS:CE1	2.27	0.53
1:C:4965:SER:HA	1:C:4975:PHE:CD1	2.44	0.53
1:E:4004:ALA:HB3	1:E:4110:PHE:HZ	1.74	0.53
2:F:18:ARG:NH1	2:F:51:GLY:HA3	2.24	0.53
1:G:24:CYS:SG	1:G:26:ALA:HB2	2.49	0.53
1:G:2553:TYR:HD1	1:G:2556:LEU:HD12	1.74	0.53
1:G:3771:HIS:HD2	1:G:3812:VAL:HG22	1.72	0.53
1:G:3827:GLY:O	1:G:3831:SER:N	2.41	0.53
1:A:33:LEU:HD21	1:A:51:PRO:HB3	1.91	0.52
1:A:110:ARG:HG2	1:A:117:TYR:CD1	2.43	0.52
1:A:138:GLN:HG2	1:A:140:ASP:H	1.73	0.52
1:A:1294:PRO:HG3	1:A:1549:PHE:HE1	1.75	0.52
1:A:3916:ILE:HA	1:A:3919:THR:HG22	1.91	0.52
1:A:3935:TRP:HB2	1:C:76:ARG:HG3	1.89	0.52
1:A:4154:VAL:HG13	1:A:4154:VAL:O	2.09	0.52
1:C:669:ASP:HB3	1:C:788:LYS:HZ1	1.72	0.52
1:C:1516:ILE:O	1:C:1530:THR:OG1	2.26	0.52
1:C:1705:GLY:O	1:C:1708:ARG:HB3	2.09	0.52
1:C:1729:SER:O	1:C:1732:SER:OG	2.19	0.52
1:C:4666:VAL:HB	1:C:4667:PRO:HD3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:116:MET:HA	1:E:139:GLU:HA	1.90	0.52
1:E:4720:VAL:HA	1:E:4723:LYS:NZ	2.23	0.52
2:F:25:HIS:CG	2:F:40:ARG:HE	2.27	0.52
1:G:1072:VAL:HB	1:G:1607:ARG:HH12	1.74	0.52
1:G:1079:LYS:NZ	1:G:1107:PRO:HB2	2.24	0.52
1:G:1259:ARG:NH2	1:G:1599:MET:O	2.42	0.52
1:G:3882:GLN:HB2	1:G:3957:VAL:HG22	1.91	0.52
1:G:3903:LEU:HD22	1:G:3915:ILE:HD12	1.91	0.52
1:G:4064:MET:HE3	1:G:4128:PHE:CE1	2.44	0.52
1:G:4648:LEU:HA	1:G:4651:THR:HB	1.91	0.52
1:A:688:LEU:HG	1:A:710:ASP:HB3	1.90	0.52
1:A:1641:ILE:HG23	1:A:1643:GLU:O	2.09	0.52
2:B:18:ARG:NH1	2:B:51:GLY:HA3	2.24	0.52
1:C:24:CYS:SG	1:C:26:ALA:HB2	2.49	0.52
1:C:4821:LYS:HD3	1:C:4947:GLN:NE2	2.23	0.52
1:E:1046:LEU:O	1:E:1050:GLY:N	2.42	0.52
1:E:2158:CYS:SG	1:E:2184:ASN:ND2	2.82	0.52
1:E:4893:ALA:HB1	1:E:4896:GLY:HA2	1.91	0.52
1:G:37:LEU:HB2	1:G:200:TRP:HZ3	1.75	0.52
1:G:614:VAL:O	1:G:614:VAL:HG13	2.09	0.52
1:G:2377:LEU:HD12	1:G:2468:GLY:HA2	1.92	0.52
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.09	0.52
2:H:25:HIS:CG	2:H:40:ARG:HE	2.26	0.52
1:A:37:LEU:HB2	1:A:200:TRP:HZ3	1.74	0.52
1:A:229:GLU:HG3	1:A:248:GLU:C	2.34	0.52
1:A:739:ALA:O	1:A:741:GLU:N	2.42	0.52
1:A:1259:ARG:NH2	1:A:1599:MET:O	2.42	0.52
1:C:1046:LEU:O	1:C:1050:GLY:N	2.41	0.52
1:C:4154:VAL:HG13	1:C:4154:VAL:O	2.09	0.52
1:C:4640:GLU:HB3	1:C:4641:PRO:HD3	1.92	0.52
1:E:638:ILE:HB	1:E:1636:MET:HB2	1.91	0.52
1:E:857:ASP:O	1:E:991:ASN:ND2	2.42	0.52
1:E:4965:SER:HA	1:E:4975:PHE:CD1	2.44	0.52
1:G:1252:HIS:ND1	1:G:1253:PRO:HD2	2.24	0.52
1:G:1856:ASP:H	1:G:1858:ASP:N	2.07	0.52
1:A:1202:LEU:HD21	1:A:1204:LEU:HG	1.90	0.52
1:A:1240:LYS:O	1:A:1607:ARG:HA	2.09	0.52
1:A:3963:ASN:O	1:A:3966:THR:OG1	2.14	0.52
1:A:4640:GLU:HB3	1:A:4641:PRO:HD3	1.92	0.52
1:A:4956:THR:O	1:A:4965:SER:N	2.43	0.52
1:C:33:LEU:HD21	1:C:51:PRO:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:ILE:HG12	1:C:478:PHE:HD2	1.74	0.52
1:C:590:LEU:HB2	1:C:599:VAL:HG11	1.92	0.52
1:C:617:ASN:O	1:C:621:ILE:HG12	2.10	0.52
1:C:1294:PRO:HG3	1:C:1549:PHE:HE1	1.74	0.52
1:C:2205:GLU:O	1:C:2209:GLU:HG2	2.09	0.52
1:C:3768:SER:HA	1:C:3771:HIS:HB3	1.91	0.52
1:C:4810:ALA:O	1:C:4813:LEU:HG	2.10	0.52
1:E:617:ASN:O	1:E:621:ILE:HG12	2.10	0.52
1:E:1205:GLY:HA3	1:E:1227:ALA:H	1.75	0.52
1:E:3916:ILE:HA	1:E:3919:THR:HG22	1.92	0.52
1:G:138:GLN:HG2	1:G:140:ASP:H	1.74	0.52
1:G:617:ASN:O	1:G:621:ILE:HG12	2.10	0.52
1:G:2758:PHE:HD2	1:G:2809:ILE:HD13	1.73	0.52
1:G:3793:MET:O	1:G:3797:THR:HG23	2.09	0.52
1:A:1247:PRO:HA	1:A:1602:PRO:HA	1.92	0.52
1:A:1830:VAL:HG12	1:A:1834:VAL:HA	1.91	0.52
1:A:4221:VAL:O	1:A:4225:GLY:N	2.43	0.52
1:C:622:THR:O	1:C:626:LEU:N	2.42	0.52
1:C:857:ASP:O	1:C:991:ASN:ND2	2.43	0.52
1:C:1259:ARG:NH2	1:C:1599:MET:O	2.42	0.52
1:C:1688:HIS:O	1:C:1688:HIS:ND1	2.43	0.52
1:E:33:LEU:HD21	1:E:51:PRO:HB3	1.92	0.52
1:E:1141:ARG:HH12	1:E:1169:LEU:CD1	2.22	0.52
1:E:1562:ILE:HG12	1:E:1563:GLN:O	2.09	0.52
1:E:2755:ILE:HD13	1:E:2810:LYS:HG2	1.91	0.52
2:F:25:HIS:O	2:F:102:GLU:N	2.39	0.52
1:G:638:ILE:HG22	1:G:639:ASN:N	2.24	0.52
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.91	0.52
1:G:2059:LEU:HD22	1:G:2062:ARG:NH1	2.19	0.52
1:G:3841:VAL:HG12	1:G:3843:ASP:H	1.74	0.52
1:A:614:VAL:HG13	1:A:614:VAL:O	2.10	0.52
1:A:636:ASN:OD1	1:A:637:LEU:N	2.42	0.52
1:A:834:PRO:HD2	1:A:838:HIS:HE2	1.73	0.52
1:A:1692:ALA:HA	1:A:1695:LEU:HD12	1.92	0.52
1:A:3877:ASP:O	1:A:3880:PHE:HB3	2.10	0.52
1:C:716:PHE:H	1:C:738:LEU:HD13	1.75	0.52
1:C:1240:LYS:O	1:C:1607:ARG:HA	2.09	0.52
1:C:1856:ASP:H	1:C:1858:ASP:N	2.08	0.52
1:C:3877:ASP:O	1:C:3880:PHE:HB3	2.10	0.52
1:C:4892:ARG:HH12	1:E:4898:GLY:H	1.57	0.52
1:E:1240:LYS:O	1:E:1607:ARG:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4146:LEU:O	1:E:4150:LEU:HG	2.09	0.52
1:G:1103:GLY:HA3	1:G:1123:VAL:HA	1.92	0.52
1:A:716:PHE:H	1:A:738:LEU:HD13	1.75	0.52
1:A:1252:HIS:ND1	1:A:1253:PRO:HD2	2.24	0.52
1:A:1477:GLY:HA2	1:A:1483:VAL:HA	1.90	0.52
1:A:4965:SER:HA	1:A:4975:PHE:CD1	2.45	0.52
1:E:229:GLU:HG3	1:E:248:GLU:C	2.34	0.52
1:E:299:LEU:HD23	1:E:357:LEU:HD13	1.92	0.52
1:E:1210:SER:HA	1:E:1214:PHE:HB3	1.92	0.52
1:E:1294:PRO:HG3	1:E:1549:PHE:HE1	1.75	0.52
1:E:1768:THR:C	1:E:1769:THR:HG1	2.12	0.52
1:E:2205:GLU:O	1:E:2209:GLU:HG2	2.09	0.52
1:E:2902:HIS:CG	1:E:2903:PRO:HD2	2.45	0.52
1:E:4172:GLU:HG2	1:E:4175:ARG:NH1	2.20	0.52
1:G:857:ASP:O	1:G:991:ASN:ND2	2.43	0.52
1:G:1292:SER:HB2	1:G:1602:PRO:HG3	1.91	0.52
1:G:1692:ALA:HA	1:G:1695:LEU:HD12	1.92	0.52
1:G:1931:LEU:CD2	1:G:1935:VAL:HG11	2.39	0.52
1:A:617:ASN:O	1:A:621:ILE:HG12	2.10	0.52
1:A:1079:LYS:NZ	1:A:1107:PRO:HB2	2.25	0.52
1:A:1103:GLY:HA3	1:A:1123:VAL:HA	1.92	0.52
1:A:1931:LEU:CD2	1:A:1935:VAL:HG11	2.40	0.52
1:A:2101:MET:HE3	1:A:2105:TRP:NE1	2.25	0.52
1:A:2186:MET:HE3	1:A:2235:PHE:CD1	2.44	0.52
1:A:2205:GLU:O	1:A:2209:GLU:HG2	2.09	0.52
1:A:2377:LEU:HD12	1:A:2468:GLY:HA2	1.92	0.52
1:A:2902:HIS:CG	1:A:2903:PRO:HD2	2.45	0.52
1:A:4839:MET:CE	1:G:4826:ILE:CG1	2.84	0.52
1:C:1937:LEU:HD12	1:C:2116:LEU:HD12	1.91	0.52
1:C:4583:SER:N	1:C:4628:VAL:O	2.41	0.52
1:E:1072:VAL:HB	1:E:1607:ARG:HH12	1.74	0.52
1:E:1688:HIS:ND1	1:E:1688:HIS:O	2.43	0.52
1:E:1705:GLY:O	1:E:1708:ARG:HB3	2.09	0.52
1:E:2924:GLN:O	1:E:2928:LYS:CB	2.58	0.52
1:G:404:ILE:HG12	1:G:478:PHE:HD2	1.74	0.52
1:G:1805:GLU:OE1	1:G:1808:ARG:NE	2.35	0.52
1:G:3813:GLN:NE2	1:G:3890:LEU:O	2.40	0.52
1:G:3840:SER:OG	1:G:3878:ASP:OD1	2.26	0.52
1:G:4210:VAL:O	1:G:4214:LYS:N	2.39	0.52
1:A:638:ILE:HB	1:A:1636:MET:HB2	1.91	0.52
1:A:1072:VAL:HB	1:A:1607:ARG:HH12	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1240:LYS:NZ	1:A:1242:LEU:O	2.43	0.52
1:A:2755:ILE:HD13	1:A:2810:LYS:HG2	1.92	0.52
1:C:614:VAL:HG13	1:C:614:VAL:O	2.09	0.52
1:C:1240:LYS:NZ	1:C:1242:LEU:O	2.43	0.52
1:C:1247:PRO:HA	1:C:1602:PRO:HA	1.91	0.52
1:C:1658:ASP:OD1	1:C:1661:ARG:NH2	2.43	0.52
1:C:2158:CYS:SG	1:C:2184:ASN:ND2	2.82	0.52
1:C:2377:LEU:HD12	1:C:2468:GLY:HA2	1.92	0.52
1:E:24:CYS:SG	1:E:26:ALA:HB2	2.49	0.52
1:E:252:VAL:HA	1:E:255:HIS:ND1	2.25	0.52
1:E:1252:HIS:ND1	1:E:1253:PRO:HD2	2.25	0.52
1:E:1641:ILE:HG23	1:E:1643:GLU:O	2.09	0.52
1:E:1931:LEU:CD2	1:E:1935:VAL:HG11	2.40	0.52
1:E:2214:VAL:HG11	1:E:2229:VAL:HG21	1.92	0.52
1:E:2377:LEU:HD12	1:E:2468:GLY:HA2	1.92	0.52
1:E:4640:GLU:HB3	1:E:4641:PRO:HD3	1.92	0.52
1:E:4795:TYR:O	1:E:4812:HIS:HE1	1.92	0.52
1:G:233:ILE:HD12	1:G:242:ARG:HB3	1.92	0.52
1:G:299:LEU:HD23	1:G:357:LEU:HD13	1.92	0.52
1:G:921:ASN:O	1:G:925:SER:N	2.26	0.52
1:G:4039:MET:HG3	1:G:4040:ILE:N	2.25	0.52
1:G:4150:LEU:O	1:G:4154:VAL:HG12	2.09	0.52
1:G:4583:SER:N	1:G:4628:VAL:O	2.41	0.52
1:A:3985:LEU:O	1:A:3988:ALA:HB3	2.10	0.52
1:C:1516:ILE:C	1:C:1530:THR:OG1	2.52	0.52
1:C:4844:LEU:O	1:C:4848:VAL:HG23	2.10	0.52
1:E:3877:ASP:O	1:E:3880:PHE:HB3	2.09	0.52
1:E:4651:THR:HG23	1:E:4799:SER:HB3	1.90	0.52
1:G:252:VAL:HA	1:G:255:HIS:ND1	2.25	0.52
1:G:265:LEU:HD22	1:G:309:THR:HG23	1.92	0.52
1:G:1294:PRO:HG3	1:G:1549:PHE:HE1	1.75	0.52
1:G:1833:SER:O	1:G:1835:GLU:N	2.42	0.52
1:G:2902:HIS:CG	1:G:2903:PRO:HD2	2.45	0.52
1:G:4077:PHE:CZ	1:G:4125:PHE:HA	2.44	0.52
1:A:828:GLU:O	1:A:840:VAL:HG23	2.11	0.51
1:A:4651:THR:HG23	1:A:4799:SER:HB3	1.92	0.51
1:A:4795:TYR:O	1:A:4812:HIS:HE1	1.93	0.51
1:C:314:PHE:HE1	1:C:378:LEU:HD21	1.74	0.51
1:C:523:TYR:CE1	1:C:560:ILE:HG12	2.45	0.51
1:C:597:HIS:NE2	1:C:598:LYS:NZ	2.57	0.51
1:C:793:LEU:HB3	1:C:812:HIS:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2902:HIS:CG	1:C:2903:PRO:HD2	2.45	0.51
1:C:4770:SER:O	1:C:4772:ASP:N	2.34	0.51
1:C:4956:THR:O	1:C:4965:SER:N	2.43	0.51
1:E:233:ILE:HD12	1:E:242:ARG:HB3	1.92	0.51
1:E:404:ILE:HG12	1:E:478:PHE:HD2	1.75	0.51
1:E:3768:SER:HA	1:E:3771:HIS:HB3	1.91	0.51
1:G:590:LEU:HB2	1:G:599:VAL:HG11	1.92	0.51
1:G:793:LEU:HB3	1:G:812:HIS:HB2	1.91	0.51
1:G:1734:TYR:OH	1:G:1948:ASP:OD1	2.18	0.51
1:G:2922:LYS:O	1:G:2925:GLU:HB2	2.10	0.51
1:A:590:LEU:HB2	1:A:599:VAL:HG11	1.92	0.51
1:A:622:THR:O	1:A:626:LEU:N	2.42	0.51
1:A:622:THR:HG21	1:A:1681:VAL:HG13	1.93	0.51
1:A:1205:GLY:HA3	1:A:1227:ALA:H	1.75	0.51
1:A:2059:LEU:HD22	1:A:2062:ARG:NH1	2.18	0.51
1:A:3767:GLN:OE1	1:A:3809:ASN:ND2	2.34	0.51
1:C:2745:VAL:HG21	1:C:2818:ALA:HB2	1.91	0.51
1:C:2755:ILE:HD13	1:C:2810:LYS:HG2	1.93	0.51
1:E:400:ALA:O	1:E:404:ILE:HG13	2.09	0.51
1:E:597:HIS:NE2	1:E:598:LYS:NZ	2.57	0.51
1:E:614:VAL:O	1:E:614:VAL:HG13	2.10	0.51
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.08	0.51
1:E:3705:PHE:CB	1:E:3778:MET:HE1	2.41	0.51
1:G:1240:LYS:NZ	1:G:1242:LEU:HB2	2.25	0.51
1:G:2556:LEU:HD23	1:G:2559:LEU:HD12	1.91	0.51
1:G:3750:GLU:O	1:G:3754:GLU:N	2.43	0.51
1:G:4031:LEU:HD23	1:G:4153:HIS:CD2	2.45	0.51
1:A:255:HIS:HB3	1:A:257:ARG:HG2	1.93	0.51
1:A:407:THR:HA	1:A:410:LEU:HG	1.92	0.51
1:A:4146:LEU:O	1:A:4150:LEU:HG	2.09	0.51
1:C:252:VAL:HG23	1:C:257:ARG:NE	2.26	0.51
1:C:638:ILE:HB	1:C:1636:MET:HB2	1.90	0.51
1:C:4004:ALA:HB3	1:C:4110:PHE:HZ	1.75	0.51
1:C:4146:LEU:O	1:C:4150:LEU:HG	2.10	0.51
1:E:675:LEU:O	1:E:676:THR:OG1	2.27	0.51
1:E:1103:GLY:HA3	1:E:1123:VAL:HA	1.92	0.51
1:E:2358:ILE:HG21	1:G:195:PHE:HE2	1.75	0.51
1:E:3698:LEU:O	1:E:3702:VAL:HG23	2.10	0.51
1:G:1240:LYS:NZ	1:G:1242:LEU:O	2.43	0.51
1:G:4150:LEU:HB3	1:G:4160:LEU:HD21	1.92	0.51
2:H:16:PRO:HD3	2:H:66:MET:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2121:PHE:CD1	1:A:3701:LEU:HD12	2.46	0.51
1:A:4844:LEU:O	1:A:4848:VAL:HG23	2.10	0.51
1:C:407:THR:HA	1:C:410:LEU:HG	1.93	0.51
1:C:2101:MET:HE3	1:C:2105:TRP:NE1	2.26	0.51
1:C:3750:GLU:O	1:C:3754:GLU:N	2.43	0.51
1:C:3905:THR:HG23	1:C:3907:THR:HG23	1.91	0.51
1:C:4177:TYR:HA	1:C:4199:GLU:OE2	2.10	0.51
1:C:4795:TYR:O	1:C:4812:HIS:HE1	1.93	0.51
1:E:37:LEU:HB2	1:E:200:TRP:HZ3	1.75	0.51
1:E:4798:MET:SD	1:E:4801:LEU:HD12	2.50	0.51
1:G:229:GLU:HG3	1:G:248:GLU:C	2.35	0.51
1:G:1202:LEU:HD21	1:G:1204:LEU:HG	1.92	0.51
1:G:3670:GLU:O	1:G:3674:ILE:HG12	2.11	0.51
1:G:4645:CYS:O	1:G:4649:LEU:N	2.39	0.51
1:A:233:ILE:HD12	1:A:242:ARG:HB3	1.92	0.51
1:A:1856:ASP:H	1:A:1858:ASP:N	2.07	0.51
1:A:2358:ILE:HG21	1:C:195:PHE:HE2	1.76	0.51
1:A:3727:ASP:O	1:A:3730:ALA:HB3	2.11	0.51
2:B:25:HIS:O	2:B:102:GLU:N	2.38	0.51
2:B:27:THR:HA	2:B:38:SER:HA	1.92	0.51
2:B:58:GLY:HA3	2:B:76:ILE:HG23	1.92	0.51
1:C:1205:GLY:HA3	1:C:1227:ALA:CB	2.40	0.51
1:C:1931:LEU:CD2	1:C:1935:VAL:HG11	2.40	0.51
1:C:3698:LEU:O	1:C:3702:VAL:HG23	2.10	0.51
1:C:4849:TYR:HA	1:C:4852:THR:HG22	1.92	0.51
1:E:523:TYR:CE1	1:E:560:ILE:HG12	2.46	0.51
1:E:1240:LYS:NZ	1:E:1242:LEU:HB2	2.25	0.51
1:E:1658:ASP:OD1	1:E:1661:ARG:NH2	2.43	0.51
1:E:1692:ALA:HA	1:E:1695:LEU:HD12	1.92	0.51
1:E:1708:ARG:HH11	1:E:1712:TYR:HE2	1.57	0.51
1:E:1833:SER:O	1:E:1835:GLU:N	2.42	0.51
1:E:2101:MET:HE3	1:E:2105:TRP:NE1	2.26	0.51
1:E:2121:PHE:CD1	1:E:3701:LEU:HD12	2.46	0.51
1:E:2495:VAL:HA	1:E:2498:HIS:HD2	1.76	0.51
1:E:4177:TYR:HA	1:E:4199:GLU:OE2	2.10	0.51
1:G:559:GLY:O	1:G:563:VAL:HG23	2.10	0.51
1:G:1688:HIS:ND1	1:G:1688:HIS:O	2.44	0.51
1:A:793:LEU:HB3	1:A:812:HIS:HB2	1.91	0.51
1:A:2305:CYS:HB2	1:A:2325:PRO:HG2	1.93	0.51
1:C:1202:LEU:HD21	1:C:1204:LEU:HG	1.92	0.51
1:C:1210:SER:HA	1:C:1214:PHE:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1708:ARG:HH11	1:C:1712:TYR:HE2	1.58	0.51
1:C:2553:TYR:HD1	1:C:2556:LEU:HD12	1.76	0.51
1:E:102:LEU:HB2	1:E:105:HIS:HD2	1.72	0.51
1:E:636:ASN:OD1	1:E:637:LEU:N	2.43	0.51
1:E:1247:PRO:HA	1:E:1602:PRO:HA	1.91	0.51
1:E:2244:ARG:HH11	1:E:2248:ARG:HH21	1.58	0.51
1:E:4107:GLU:HA	1:E:4110:PHE:HB3	1.93	0.51
1:E:4844:LEU:O	1:E:4848:VAL:HG23	2.11	0.51
1:G:638:ILE:HB	1:G:1636:MET:HB2	1.92	0.51
1:G:1210:SER:HA	1:G:1214:PHE:HB3	1.93	0.51
1:G:2101:MET:HE3	1:G:2105:TRP:NE1	2.25	0.51
1:G:4146:LEU:O	1:G:4150:LEU:HG	2.09	0.51
1:A:113:HIS:CE1	1:A:402:ARG:HB3	2.46	0.51
1:A:132:ALA:HB1	1:A:193:ALA:O	2.11	0.51
1:A:824:GLU:CD	1:A:825:PRO:HD2	2.36	0.51
1:A:4580:TYR:HB2	1:A:4631:PHE:HD1	1.76	0.51
1:C:113:HIS:CE1	1:C:402:ARG:HB3	2.46	0.51
1:C:173:SER:O	1:C:177:GLU:HA	2.11	0.51
1:C:824:GLU:CD	1:C:825:PRO:HD2	2.36	0.51
1:C:1115:LEU:HD21	1:C:1123:VAL:HG11	1.93	0.51
1:C:1962:ALA:O	1:C:1966:VAL:HG23	2.11	0.51
2:D:58:GLY:HA3	2:D:76:ILE:HG23	1.92	0.51
1:E:1240:LYS:NZ	1:E:1242:LEU:O	2.43	0.51
2:F:16:PRO:HD3	2:F:66:MET:O	2.09	0.51
1:G:255:HIS:HB3	1:G:257:ARG:HG2	1.93	0.51
1:A:265:LEU:HD22	1:A:309:THR:HG23	1.93	0.51
1:A:299:LEU:HD23	1:A:357:LEU:HD13	1.92	0.51
1:A:523:TYR:CE1	1:A:560:ILE:HG12	2.45	0.51
1:A:1163:THR:HG22	1:A:1168:VAL:HA	1.93	0.51
1:A:1240:LYS:NZ	1:A:1242:LEU:HB2	2.25	0.51
1:A:1658:ASP:OD1	1:A:1661:ARG:NH2	2.43	0.51
1:A:3750:GLU:O	1:A:3754:GLU:N	2.43	0.51
1:C:1780:PRO:HB2	2:D:42:ARG:NH2	2.25	0.51
1:C:3727:ASP:O	1:C:3730:ALA:HB3	2.11	0.51
1:C:3839:CYS:SG	1:C:3840:SER:N	2.84	0.51
1:C:3935:TRP:O	1:E:80:GLU:OE2	2.28	0.51
1:C:4107:GLU:HA	1:C:4110:PHE:HB3	1.93	0.51
1:C:4651:THR:HG23	1:C:4799:SER:HB3	1.92	0.51
1:C:4892:ARG:HH22	1:E:4920:PHE:HD2	1.57	0.51
1:E:590:LEU:HB2	1:E:599:VAL:HG11	1.93	0.51
1:G:625:LEU:HB3	1:G:632:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2755:ILE:HD13	1:G:2810:LYS:HG2	1.92	0.51
1:G:4241:THR:O	1:G:4244:GLU:HB3	2.10	0.51
1:G:4665:LYS:O	1:G:4669:VAL:N	2.40	0.51
1:A:252:VAL:HG23	1:A:257:ARG:NE	2.25	0.51
1:A:252:VAL:HA	1:A:255:HIS:ND1	2.25	0.51
1:A:404:ILE:HG12	1:A:478:PHE:HD2	1.75	0.51
1:A:4004:ALA:HB3	1:A:4110:PHE:HZ	1.74	0.51
1:A:4689:THR:OG1	1:A:4690:GLU:OE1	2.20	0.51
1:A:4905:ALA:N	1:A:4906:GLY:HA3	2.26	0.51
1:C:37:LEU:HB2	1:C:200:TRP:HZ3	1.75	0.51
1:C:265:LEU:HD22	1:C:309:THR:HG23	1.93	0.51
1:C:1079:LYS:HZ2	1:C:1107:PRO:HB2	1.76	0.51
1:C:1103:GLY:HA3	1:C:1123:VAL:HA	1.92	0.51
1:E:132:ALA:HB1	1:E:193:ALA:O	2.11	0.51
1:E:793:LEU:HB3	1:E:812:HIS:HB2	1.91	0.51
1:E:921:ASN:O	1:E:925:SER:N	2.26	0.51
1:E:1115:LEU:HD21	1:E:1123:VAL:HG11	1.93	0.51
1:E:1202:LEU:HD21	1:E:1204:LEU:HG	1.92	0.51
1:E:1962:ALA:O	1:E:1966:VAL:HG23	2.11	0.51
1:G:264:PRO:O	1:G:266:ARG:N	2.44	0.51
1:G:523:TYR:CE1	1:G:560:ILE:HG12	2.46	0.51
1:G:1658:ASP:OD1	1:G:1661:ARG:NH2	2.43	0.51
1:G:3847:PHE:HE1	1:G:3946:GLN:HG2	1.75	0.51
1:G:4905:ALA:N	1:G:4906:GLY:HA3	2.26	0.51
1:A:638:ILE:HG22	1:A:639:ASN:N	2.25	0.51
1:A:1767:VAL:C	1:A:1768:THR:HG1	2.18	0.51
1:A:1833:SER:O	1:A:1835:GLU:N	2.41	0.51
1:A:3705:PHE:CB	1:A:3778:MET:HE1	2.40	0.51
1:C:255:HIS:HB3	1:C:257:ARG:HG2	1.93	0.51
1:C:276:TRP:CD1	1:C:318:VAL:HG23	2.46	0.51
1:C:1252:HIS:ND1	1:C:1253:PRO:HD2	2.25	0.51
1:C:2059:LEU:HD22	1:C:2062:ARG:NH1	2.18	0.51
1:E:1856:ASP:H	1:E:1858:ASP:N	2.08	0.51
1:E:2254:LEU:O	1:E:2258:LEU:HG	2.11	0.51
1:E:2819:TRP:CH2	1:E:2881:ASN:HB2	2.46	0.51
1:E:3750:GLU:O	1:E:3754:GLU:N	2.43	0.51
1:E:4822:THR:O	1:E:4825:THR:HB	2.11	0.51
1:G:173:SER:O	1:G:177:GLU:HA	2.11	0.51
1:G:716:PHE:H	1:G:738:LEU:HD13	1.74	0.51
2:H:14:THR:HG22	2:H:106:LEU:HD12	1.93	0.51
1:A:1077:ALA:HB2	1:A:1190:PRO:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2553:TYR:HD1	1:A:2556:LEU:HD12	1.76	0.50
1:A:2745:VAL:HG21	1:A:2818:ALA:HB2	1.91	0.50
1:A:4151:SER:HA	1:A:4160:LEU:HD21	1.94	0.50
1:C:42:PHE:HD1	1:C:116:MET:HE3	1.76	0.50
1:C:252:VAL:HA	1:C:255:HIS:ND1	2.25	0.50
1:C:299:LEU:HD23	1:C:357:LEU:HD13	1.92	0.50
1:C:828:GLU:O	1:C:840:VAL:HG23	2.10	0.50
1:C:1240:LYS:NZ	1:C:1242:LEU:HB2	2.26	0.50
1:C:1679:ASN:O	1:C:1683:HIS:ND1	2.41	0.50
1:C:4580:TYR:HB2	1:C:4631:PHE:HD1	1.76	0.50
1:C:4721:LYS:HD3	1:C:4741:LEU:HB3	1.93	0.50
1:C:4905:ALA:N	1:C:4906:GLY:HA3	2.25	0.50
1:E:622:THR:HG21	1:E:1681:VAL:HG13	1.94	0.50
1:E:1810:LYS:HD2	1:E:1813:ARG:HH22	1.76	0.50
1:E:2553:TYR:HD1	1:E:2556:LEU:HD12	1.76	0.50
1:E:3839:CYS:SG	1:E:3840:SER:N	2.84	0.50
2:F:27:THR:HA	2:F:38:SER:HA	1.93	0.50
1:G:252:VAL:HG23	1:G:257:ARG:NE	2.25	0.50
1:G:626:LEU:HB2	1:G:627:PRO:HD3	1.93	0.50
1:G:1115:LEU:HD21	1:G:1123:VAL:HG11	1.93	0.50
1:G:1247:PRO:HA	1:G:1602:PRO:HA	1.91	0.50
1:G:1810:LYS:HD2	1:G:1813:ARG:HH22	1.76	0.50
1:G:2116:LEU:O	1:G:2120:MET:HG3	2.10	0.50
1:G:2819:TRP:CH2	1:G:2881:ASN:HB2	2.47	0.50
1:G:2890:LYS:HE3	1:G:2894:LEU:HD11	1.93	0.50
1:A:2774:ASN:OD1	1:A:2852:ARG:NE	2.44	0.50
1:A:2819:TRP:CH2	1:A:2881:ASN:HB2	2.46	0.50
1:A:3753:PHE:O	1:A:3757:GLU:N	2.44	0.50
1:A:4177:TYR:HA	1:A:4199:GLU:OE2	2.10	0.50
1:A:4676:GLU:O	1:A:4680:LYS:HG3	2.11	0.50
1:C:2254:LEU:O	1:C:2258:LEU:HG	2.11	0.50
1:E:1735:ILE:CD1	1:E:1771:LEU:HD12	2.42	0.50
1:E:3935:TRP:CB	1:G:76:ARG:HG3	2.41	0.50
2:F:58:GLY:HA3	2:F:76:ILE:HG23	1.92	0.50
1:G:394:GLN:HB3	1:G:397:GLU:HG2	1.93	0.50
1:G:588:SER:O	1:G:592:LYS:HG3	2.12	0.50
1:G:3835:LEU:O	1:G:3839:CYS:N	2.43	0.50
1:G:4221:VAL:O	1:G:4225:GLY:N	2.44	0.50
1:G:4876:CYS:HA	1:G:4882:CYS:HB3	1.93	0.50
1:A:173:SER:O	1:A:177:GLU:HA	2.11	0.50
1:A:3768:SER:HA	1:A:3771:HIS:HB3	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1692:ALA:HA	1:C:1695:LEU:HD12	1.92	0.50
1:C:2214:VAL:HG11	1:C:2229:VAL:HG21	1.92	0.50
1:C:2495:VAL:HA	1:C:2498:HIS:HD2	1.76	0.50
1:C:2774:ASN:OD1	1:C:2852:ARG:NE	2.44	0.50
1:C:3835:LEU:HD22	1:C:3884:LEU:CD1	2.41	0.50
1:C:3916:ILE:HA	1:C:3919:THR:HG22	1.93	0.50
1:E:173:SER:O	1:E:177:GLU:HA	2.11	0.50
1:E:252:VAL:HG23	1:E:257:ARG:NE	2.26	0.50
1:G:1029:GLU:HA	1:G:1032:LYS:HB2	1.93	0.50
1:G:1253:PRO:O	1:G:1254:HIS:HB2	2.11	0.50
1:G:4578:LEU:HG	1:G:4578:LEU:O	2.12	0.50
1:A:394:GLN:HB3	1:A:397:GLU:HG2	1.93	0.50
1:A:588:SER:O	1:A:592:LYS:HG3	2.11	0.50
1:A:1166:GLY:HA3	1:A:1216:ILE:HD12	1.93	0.50
1:A:1962:ALA:O	1:A:1966:VAL:HG23	2.11	0.50
1:A:4573:ILE:O	1:A:4577:LEU:HB2	2.11	0.50
1:C:622:THR:HG21	1:C:1681:VAL:HG13	1.93	0.50
1:C:716:PHE:N	1:C:738:LEU:HD13	2.27	0.50
1:E:218:HIS:HE1	1:E:392:ARG:HB2	1.76	0.50
1:E:824:GLU:CD	1:E:825:PRO:HD2	2.36	0.50
1:E:1163:THR:HG22	1:E:1168:VAL:HA	1.93	0.50
1:E:2774:ASN:OD1	1:E:2852:ARG:NE	2.45	0.50
1:E:3774:GLY:HA2	1:E:3815:LYS:NZ	2.26	0.50
1:G:113:HIS:CE1	1:G:402:ARG:HB3	2.46	0.50
1:G:132:ALA:HB1	1:G:193:ALA:O	2.11	0.50
1:G:622:THR:HG21	1:G:1681:VAL:HG13	1.93	0.50
1:G:828:GLU:O	1:G:840:VAL:HG23	2.11	0.50
1:G:1163:THR:HG22	1:G:1168:VAL:HA	1.93	0.50
1:G:5013:MET:O	1:G:5017:ARG:N	2.40	0.50
1:A:42:PHE:HD1	1:A:116:MET:HE3	1.77	0.50
1:A:276:TRP:CD1	1:A:318:VAL:HG23	2.47	0.50
1:A:1253:PRO:O	1:A:1254:HIS:HB2	2.12	0.50
1:A:1705:GLY:O	1:A:1708:ARG:HB3	2.11	0.50
1:A:3698:LEU:O	1:A:3702:VAL:HG23	2.10	0.50
1:A:4583:SER:N	1:A:4628:VAL:O	2.41	0.50
1:C:102:LEU:HB2	1:C:105:HIS:HD2	1.72	0.50
1:C:218:HIS:HE1	1:C:392:ARG:HB2	1.76	0.50
1:C:492:ASP:OD1	1:C:546:TRP:NE1	2.43	0.50
1:C:588:SER:O	1:C:592:LYS:HG3	2.11	0.50
1:C:1514:LEU:HD12	1:C:1514:LEU:N	2.26	0.50
1:C:2121:PHE:CD1	1:C:3701:LEU:HD12	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2819:TRP:CH2	1:C:2881:ASN:HB2	2.47	0.50
1:E:113:HIS:CE1	1:E:402:ARG:HB3	2.46	0.50
1:E:716:PHE:H	1:E:738:LEU:HD13	1.75	0.50
1:E:3727:ASP:O	1:E:3730:ALA:HB3	2.11	0.50
1:E:3891:LEU:HB3	1:E:3899:PHE:HE2	1.77	0.50
1:E:4905:ALA:N	1:E:4906:GLY:HA3	2.26	0.50
1:G:110:ARG:HG2	1:G:117:TYR:CE1	2.47	0.50
1:A:716:PHE:N	1:A:738:LEU:HD13	2.27	0.50
1:A:1115:LEU:HD21	1:A:1123:VAL:HG11	1.94	0.50
1:A:1210:SER:HA	1:A:1214:PHE:HB3	1.94	0.50
1:A:1688:HIS:ND1	1:A:1688:HIS:O	2.44	0.50
1:A:3835:LEU:HD22	1:A:3884:LEU:CD1	2.42	0.50
1:A:3935:TRP:O	1:C:80:GLU:OE2	2.29	0.50
1:C:1163:THR:HG22	1:C:1168:VAL:HA	1.93	0.50
1:C:3774:GLY:HA2	1:C:3815:LYS:NZ	2.26	0.50
1:C:3879:GLU:OE2	1:C:3883:ASP:OD2	2.30	0.50
1:C:3935:TRP:CB	1:E:76:ARG:HG3	2.42	0.50
1:C:4221:VAL:O	1:C:4225:GLY:N	2.44	0.50
1:E:42:PHE:HB2	1:E:403:MET:SD	2.52	0.50
1:E:265:LEU:HD22	1:E:309:THR:HG23	1.94	0.50
1:E:276:TRP:CD1	1:E:318:VAL:HG23	2.46	0.50
1:E:622:THR:O	1:E:626:LEU:N	2.42	0.50
1:E:828:GLU:O	1:E:840:VAL:HG23	2.10	0.50
1:E:4906:GLY:H	1:E:4910:GLU:HG3	1.76	0.50
1:G:118:LEU:HA	1:G:137:LEU:HD23	1.94	0.50
1:G:622:THR:O	1:G:626:LEU:N	2.42	0.50
1:G:1679:ASN:O	1:G:1683:HIS:ND1	2.40	0.50
1:G:1962:ALA:O	1:G:1966:VAL:HG23	2.11	0.50
1:G:2254:LEU:O	1:G:2258:LEU:HG	2.11	0.50
1:G:4172:GLU:HG2	1:G:4175:ARG:HH12	1.76	0.50
1:G:4182:GLU:HB2	1:G:4983:HIS:CE1	2.47	0.50
1:G:4984:ASN:O	1:G:4985:LEU:HB3	2.11	0.50
1:A:118:LEU:HA	1:A:137:LEU:HD23	1.94	0.50
1:A:218:HIS:HE1	1:A:392:ARG:HB2	1.76	0.50
1:A:702:TRP:HD1	2:B:34:LYS:NZ	2.04	0.50
1:A:4836:GLN:O	1:A:4839:MET:HG2	2.11	0.50
1:C:3753:PHE:O	1:C:3757:GLU:N	2.44	0.50
1:C:4906:GLY:H	1:C:4910:GLU:HG3	1.77	0.50
1:E:625:LEU:HB3	1:E:632:LEU:HD23	1.94	0.50
1:E:716:PHE:N	1:E:738:LEU:HD13	2.27	0.50
1:E:1166:GLY:HA3	1:E:1216:ILE:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1783:VAL:HG12	2:F:54:GLU:O	2.12	0.50
1:E:4221:VAL:O	1:E:4225:GLY:N	2.44	0.50
1:E:4676:GLU:O	1:E:4680:LYS:HG3	2.12	0.50
1:G:150:MET:HG2	1:G:171:LEU:HD23	1.94	0.50
1:G:702:TRP:CD1	2:H:34:LYS:NZ	2.79	0.50
1:G:2495:VAL:HA	1:G:2498:HIS:HD2	1.77	0.50
1:A:472:ARG:NE	1:A:532:GLY:O	2.45	0.50
1:A:1780:PRO:HB2	2:B:42:ARG:NH2	2.27	0.50
1:A:2095:GLN:HG3	1:A:2127:GLN:OE1	2.11	0.50
1:A:2254:LEU:O	1:A:2258:LEU:HG	2.12	0.50
1:A:4145:VAL:HG13	1:A:4194:TYR:HD2	1.77	0.50
1:A:4810:ALA:O	1:A:4813:LEU:HG	2.11	0.50
1:C:233:ILE:HD12	1:C:242:ARG:HB3	1.92	0.50
1:C:3705:PHE:CB	1:C:3778:MET:HE1	2.41	0.50
1:C:4676:GLU:O	1:C:4680:LYS:HG3	2.12	0.50
1:C:4727:LYS:NZ	1:C:4728:HIS:CE1	2.80	0.50
1:C:4905:ALA:H	1:C:4906:GLY:HA3	1.77	0.50
1:E:407:THR:HA	1:E:410:LEU:HG	1.93	0.50
1:E:588:SER:O	1:E:592:LYS:HG3	2.11	0.50
1:E:1029:GLU:HA	1:E:1032:LYS:HB2	1.94	0.50
1:E:1685:LEU:O	1:E:1689:VAL:HG12	2.12	0.50
1:E:2059:LEU:HD22	1:E:2062:ARG:NH1	2.18	0.50
1:E:2735:PHE:HD2	1:E:2891:LYS:HD2	1.77	0.50
1:G:1166:GLY:HA3	1:G:1216:ILE:HD12	1.94	0.50
1:G:1767:VAL:C	1:G:1768:THR:HG1	2.19	0.50
1:G:3698:LEU:HB3	1:G:3773:ARG:HE	1.77	0.50
1:G:3727:ASP:O	1:G:3730:ALA:HB3	2.11	0.50
1:A:1685:LEU:O	1:A:1689:VAL:HG12	2.12	0.50
1:A:2517:PHE:O	1:A:2521:VAL:HG23	2.12	0.50
1:C:132:ALA:HB1	1:C:193:ALA:O	2.11	0.50
1:C:2874:MET:HE1	1:C:2937:VAL:HG12	1.94	0.50
1:C:3985:LEU:O	1:C:3988:ALA:HB3	2.11	0.50
1:C:4979:THR:O	1:C:4984:ASN:N	2.30	0.50
1:E:118:LEU:HA	1:E:137:LEU:HD23	1.94	0.50
1:E:255:HIS:HB3	1:E:257:ARG:HG2	1.93	0.50
1:E:3879:GLU:OE2	1:E:3883:ASP:OD2	2.30	0.50
1:G:42:PHE:HD1	1:G:116:MET:HE3	1.76	0.50
1:G:1663:HIS:CE1	1:G:1667:LEU:HD11	2.47	0.50
1:G:1705:GLY:O	1:G:1708:ARG:HB3	2.11	0.50
1:G:2496:PRO:HB3	1:G:2552:ARG:HD2	1.92	0.50
1:G:4834:GLY:O	1:G:4837:LEU:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:626:LEU:HB2	1:A:627:PRO:HD3	1.93	0.49
1:A:1024:TYR:HB3	1:A:1032:LYS:HD3	1.94	0.49
1:A:3774:GLY:HA2	1:A:3815:LYS:NZ	2.27	0.49
1:A:3879:GLU:OE2	1:A:3883:ASP:OD2	2.30	0.49
1:A:3891:LEU:HB3	1:A:3899:PHE:HE2	1.77	0.49
1:A:4107:GLU:HA	1:A:4110:PHE:HB3	1.93	0.49
1:C:472:ARG:NE	1:C:532:GLY:O	2.45	0.49
1:C:1810:LYS:HD2	1:C:1813:ARG:HH22	1.76	0.49
1:C:1933:GLU:O	1:C:1936:LYS:HB2	2.12	0.49
1:C:3921:ASP:O	1:C:3924:LEU:HB2	2.12	0.49
1:E:626:LEU:HB2	1:E:627:PRO:HD3	1.93	0.49
1:E:2173:GLN:HG2	1:E:2174:GLU:N	2.19	0.49
1:E:3753:PHE:O	1:E:3757:GLU:N	2.44	0.49
1:E:4892:ARG:HH22	1:G:4920:PHE:HD2	1.60	0.49
2:F:14:THR:HG22	2:F:106:LEU:HD12	1.94	0.49
1:G:2066:LEU:O	1:G:2069:THR:OG1	2.30	0.49
1:G:2121:PHE:CD1	1:G:3701:LEU:HD12	2.46	0.49
1:G:2774:ASN:OD1	1:G:2852:ARG:NE	2.45	0.49
1:G:4137:ARG:HD2	1:G:4177:TYR:CZ	2.45	0.49
1:G:4946:GLN:HA	1:G:4949:GLN:HB3	1.94	0.49
1:A:1810:LYS:HD2	1:A:1813:ARG:HH22	1.76	0.49
1:A:2214:VAL:HG11	1:A:2229:VAL:CG2	2.42	0.49
1:A:4727:LYS:HZ1	1:A:4728:HIS:CE1	2.30	0.49
2:B:74:LEU:HD23	2:B:76:ILE:HD11	1.94	0.49
1:C:34:LYS:HB2	1:C:53:SER:HB2	1.94	0.49
1:C:702:TRP:HD1	2:D:34:LYS:NZ	2.04	0.49
1:C:1077:ALA:HB2	1:C:1190:PRO:HG2	1.94	0.49
1:C:1663:HIS:CE1	1:C:1667:LEU:HD11	2.47	0.49
1:C:1768:THR:C	1:C:1769:THR:HG1	2.17	0.49
1:E:764:VAL:O	1:E:764:VAL:HG12	2.12	0.49
1:E:1679:ASN:O	1:E:1683:HIS:ND1	2.41	0.49
1:E:1933:GLU:O	1:E:1936:LYS:HB2	2.13	0.49
1:E:2671:GLU:CB	1:E:2913:ALA:H	2.26	0.49
1:E:3705:PHE:HB2	1:E:3778:MET:HE1	1.94	0.49
1:E:3835:LEU:HD22	1:E:3884:LEU:CD1	2.42	0.49
1:E:4727:LYS:NZ	1:E:4728:HIS:CE1	2.80	0.49
2:F:54:GLU:HG3	2:F:55:VAL:HG13	1.94	0.49
1:G:407:THR:HA	1:G:410:LEU:HG	1.93	0.49
1:G:1448:VAL:HG13	1:G:1554:VAL:HA	1.94	0.49
1:A:2874:MET:HE1	1:A:2937:VAL:HG12	1.94	0.49
1:A:2890:LYS:HE3	1:A:2894:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3905:THR:HG23	1:A:3907:THR:HG23	1.92	0.49
1:A:4727:LYS:NZ	1:A:4728:HIS:CE1	2.80	0.49
1:A:4849:TYR:HA	1:A:4852:THR:HG22	1.92	0.49
1:A:5006:GLN:O	1:A:5010:VAL:HG23	2.12	0.49
1:C:42:PHE:HB2	1:C:403:MET:SD	2.52	0.49
1:C:118:LEU:HA	1:C:137:LEU:HD23	1.94	0.49
1:C:119:SER:O	1:C:136:GLY:N	2.31	0.49
1:C:597:HIS:HB2	1:C:1665:HIS:CD2	2.48	0.49
1:C:1253:PRO:O	1:C:1254:HIS:HB2	2.12	0.49
2:D:27:THR:HA	2:D:38:SER:HA	1.93	0.49
1:E:150:MET:HG2	1:E:171:LEU:HD23	1.95	0.49
1:E:492:ASP:OD1	1:E:546:TRP:NE1	2.43	0.49
1:E:636:ASN:ND2	2:F:35:LYS:HD3	2.27	0.49
1:E:1663:HIS:CE1	1:E:1667:LEU:HD11	2.48	0.49
1:E:2517:PHE:O	1:E:2521:VAL:HG23	2.13	0.49
1:E:2890:LYS:HE3	1:E:2894:LEU:HD11	1.94	0.49
1:G:824:GLU:CD	1:G:825:PRO:HD2	2.36	0.49
1:G:2517:PHE:O	1:G:2521:VAL:HG23	2.13	0.49
1:G:3716:LEU:N	1:G:3789:GLU:OE2	2.45	0.49
1:G:4842:GLY:O	1:G:4846:VAL:HG23	2.13	0.49
1:A:42:PHE:HB2	1:A:403:MET:SD	2.53	0.49
1:A:245:VAL:HG12	1:A:376:ALA:HB3	1.95	0.49
1:A:2173:GLN:OE1	1:A:2173:GLN:N	2.46	0.49
1:C:394:GLN:HB3	1:C:397:GLU:HG2	1.93	0.49
1:C:1029:GLU:HA	1:C:1032:LYS:HB2	1.93	0.49
1:C:1245:PHE:HD2	1:C:1290:ARG:HH11	1.61	0.49
1:C:2890:LYS:HE3	1:C:2894:LEU:HD11	1.94	0.49
1:C:4573:ILE:O	1:C:4577:LEU:HB2	2.11	0.49
1:E:1077:ALA:HB2	1:E:1190:PRO:HG2	1.95	0.49
1:E:1253:PRO:O	1:E:1254:HIS:HB2	2.12	0.49
1:G:516:LYS:HG3	1:G:517:GLU:N	2.27	0.49
1:G:2173:GLN:OE1	1:G:2173:GLN:N	2.45	0.49
1:A:1029:GLU:HA	1:A:1032:LYS:HB2	1.93	0.49
1:A:2854:GLY:O	1:A:2856:ASN:ND2	2.46	0.49
1:A:4677:LEU:HA	1:A:4680:LYS:HD2	1.95	0.49
1:C:110:ARG:HG2	1:C:117:TYR:CE1	2.48	0.49
1:C:342:GLY:N	1:C:390:LEU:O	2.46	0.49
1:C:1685:LEU:O	1:C:1689:VAL:HG12	2.13	0.49
1:C:4151:SER:HA	1:C:4160:LEU:HD21	1.94	0.49
1:C:4730:ASP:OD1	1:C:4731:ILE:N	2.46	0.49
1:E:597:HIS:HB2	1:E:1665:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1245:PHE:HD2	1:E:1290:ARG:HH11	1.61	0.49
1:E:2173:GLN:OE1	1:E:2173:GLN:N	2.45	0.49
1:E:3905:THR:HG23	1:E:3907:THR:HG23	1.93	0.49
1:E:5006:GLN:O	1:E:5010:VAL:HG23	2.12	0.49
1:G:42:PHE:HB2	1:G:403:MET:SD	2.52	0.49
1:G:1729:SER:O	1:G:1732:SER:OG	2.19	0.49
1:G:1762:LEU:HD12	1:G:1763:PRO:HD2	1.94	0.49
1:G:2125:HIS:CE1	1:G:3724:ALA:HB1	2.48	0.49
1:G:4905:ALA:H	1:G:4906:GLY:HA3	1.78	0.49
1:A:597:HIS:HB2	1:A:1665:HIS:CD2	2.48	0.49
1:A:639:ASN:ND2	1:A:676:THR:OG1	2.45	0.49
1:A:1933:GLU:O	1:A:1936:LYS:HB2	2.12	0.49
1:A:2420:HIS:ND1	1:A:2423:MET:SD	2.75	0.49
1:A:3662:ILE:O	1:A:3662:ILE:HG22	2.13	0.49
1:A:3705:PHE:HB2	1:A:3778:MET:HE1	1.94	0.49
1:C:264:PRO:O	1:C:266:ARG:N	2.44	0.49
1:C:1024:TYR:HB3	1:C:1032:LYS:HD3	1.95	0.49
1:C:1556:PRO:HA	1:C:1561:VAL:HG23	1.93	0.49
1:C:1783:VAL:HG12	2:D:54:GLU:O	2.12	0.49
1:C:4642:ALA:O	1:C:4646:LEU:N	2.44	0.49
1:C:4677:LEU:HD23	1:C:4711:PHE:CE1	2.48	0.49
1:C:4688:ILE:HG21	1:C:4728:HIS:HB3	1.95	0.49
1:E:472:ARG:NE	1:E:532:GLY:O	2.46	0.49
1:E:1074:ILE:HA	1:E:1193:SER:HA	1.95	0.49
1:E:4727:LYS:HZ1	1:E:4728:HIS:CE1	2.31	0.49
1:G:34:LYS:HB2	1:G:53:SER:HB2	1.94	0.49
1:G:245:VAL:HG12	1:G:376:ALA:HB3	1.95	0.49
1:G:472:ARG:NE	1:G:532:GLY:O	2.46	0.49
1:G:1141:ARG:NH1	1:G:1169:LEU:HD11	2.26	0.49
1:G:1685:LEU:O	1:G:1689:VAL:HG12	2.12	0.49
1:G:1933:GLU:O	1:G:1936:LYS:HB2	2.12	0.49
1:G:2244:ARG:HH11	1:G:2248:ARG:HH21	1.60	0.49
1:G:2883:HIS:HE1	1:G:2904:LEU:O	1.95	0.49
1:G:4567:LEU:HD12	1:G:4815:ASP:OD2	2.12	0.49
1:A:110:ARG:HG2	1:A:117:TYR:CE1	2.48	0.49
1:A:452:PHE:O	1:A:528:SER:OG	2.31	0.49
1:A:1245:PHE:HD2	1:A:1290:ARG:HH11	1.61	0.49
1:A:1734:TYR:OH	1:A:1948:ASP:OD1	2.19	0.49
1:A:2735:PHE:HD2	1:A:2891:LYS:HD2	1.78	0.49
1:A:3921:ASP:O	1:A:3924:LEU:HB2	2.12	0.49
1:A:4730:ASP:OD1	1:A:4731:ILE:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4920:PHE:HD2	1:G:4892:ARG:HH22	1.61	0.49
2:B:49:MET:N	2:B:54:GLU:OE2	2.46	0.49
1:C:2095:GLN:HG3	1:C:2127:GLN:OE1	2.11	0.49
1:C:2735:PHE:HD2	1:C:2891:LYS:HD2	1.77	0.49
2:D:74:LEU:HD23	2:D:76:ILE:HD11	1.94	0.49
1:E:1277:TRP:HB2	1:E:1562:ILE:O	2.13	0.49
1:E:1712:TYR:CD2	1:E:1840:PRO:HB2	2.48	0.49
1:E:4573:ILE:O	1:E:4577:LEU:HB2	2.13	0.49
1:E:4574:ASN:ND2	1:E:4813:LEU:HD23	2.27	0.49
1:G:218:HIS:HE1	1:G:392:ARG:HB2	1.76	0.49
1:G:1556:PRO:HA	1:G:1561:VAL:HG23	1.93	0.49
1:G:2173:GLN:HG2	1:G:2174:GLU:N	2.20	0.49
1:G:2793:PRO:O	1:G:2796:THR:OG1	2.28	0.49
1:G:4031:LEU:HD11	1:G:4044:MET:SD	2.53	0.49
1:G:4843:LEU:O	1:G:4847:VAL:HG23	2.13	0.49
1:A:1735:ILE:CD1	1:A:1771:LEU:HD12	2.42	0.49
1:A:3839:CYS:SG	1:A:3840:SER:N	2.84	0.49
1:A:4906:GLY:H	1:A:4910:GLU:HG3	1.77	0.49
1:C:150:MET:HG2	1:C:171:LEU:HD23	1.95	0.49
1:C:245:VAL:HG12	1:C:376:ALA:HB3	1.95	0.49
1:C:636:ASN:OD1	1:C:637:LEU:N	2.43	0.49
1:C:1130:GLN:NE2	1:C:1132:TRP:HE1	2.11	0.49
1:C:3891:LEU:HB3	1:C:3899:PHE:HE2	1.77	0.49
1:E:42:PHE:HD1	1:E:116:MET:HE3	1.77	0.49
1:E:516:LYS:HG3	1:E:517:GLU:N	2.27	0.49
1:E:4055:VAL:HA	1:E:4058:ILE:HG12	1.95	0.49
1:E:4677:LEU:HA	1:E:4680:LYS:HD2	1.94	0.49
1:E:4721:LYS:HD3	1:E:4741:LEU:HB3	1.94	0.49
1:E:4905:ALA:H	1:E:4906:GLY:HA3	1.78	0.49
1:G:276:TRP:CD1	1:G:318:VAL:HG23	2.47	0.49
1:G:451:TYR:HD2	1:G:452:PHE:CE2	2.31	0.49
1:G:458:GLU:HG2	1:G:458:GLU:O	2.13	0.49
1:G:1077:ALA:HB2	1:G:1190:PRO:HG2	1.94	0.49
1:G:4027:LEU:O	1:G:4031:LEU:HD13	2.13	0.49
1:G:4666:VAL:O	1:G:4670:ILE:HG12	2.13	0.49
1:G:4688:ILE:HG21	1:G:4728:HIS:HB3	1.94	0.49
2:H:23:VAL:HG12	2:H:104:LEU:HD12	1.95	0.49
1:A:34:LYS:HB2	1:A:53:SER:HB2	1.93	0.49
1:A:625:LEU:HB3	1:A:632:LEU:HD23	1.94	0.49
1:A:636:ASN:HD21	2:B:35:LYS:HD3	1.78	0.49
1:A:1457:TYR:CZ	1:A:1459:GLN:NE2	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1739:THR:O	1:A:1742:THR:OG1	2.21	0.49
1:A:2066:LEU:O	1:A:2069:THR:OG1	2.31	0.49
1:A:2244:ARG:HH11	1:A:2248:ARG:HH21	1.59	0.49
1:A:2495:VAL:HA	1:A:2498:HIS:HD2	1.77	0.49
1:A:2671:GLU:CB	1:A:2913:ALA:H	2.26	0.49
1:A:4877:ASP:O	1:G:4581:LYS:CE	2.61	0.49
1:C:626:LEU:HB2	1:C:627:PRO:HD3	1.93	0.49
1:C:1166:GLY:HA3	1:C:1216:ILE:HD12	1.95	0.49
1:C:1448:VAL:HG13	1:C:1554:VAL:HA	1.94	0.49
1:C:2671:GLU:CB	1:C:2913:ALA:H	2.26	0.49
1:E:3985:LEU:O	1:E:3988:ALA:HB3	2.11	0.49
1:E:4242:ILE:O	1:E:4246:GLN:HG2	2.13	0.49
1:E:4888:TYR:OH	1:G:4898:GLY:HA3	2.13	0.49
1:G:3835:LEU:HD21	1:G:3880:PHE:HE2	1.77	0.49
1:G:3927:GLN:NE2	1:G:3988:ALA:O	2.36	0.49
1:A:162:LYS:HB2	1:A:164:ARG:HH12	1.77	0.49
1:A:635:THR:OG1	1:A:1638:ALA:O	2.26	0.49
1:A:1074:ILE:HA	1:A:1193:SER:HA	1.95	0.49
1:A:1092:PHE:HZ	1:A:1100:MET:HE3	1.78	0.49
1:A:1448:VAL:HG13	1:A:1554:VAL:HA	1.93	0.49
1:A:3996:PHE:CE2	1:A:4019:LEU:HD22	2.48	0.49
1:A:4886:HIS:O	1:A:4891:VAL:N	2.42	0.49
1:A:4905:ALA:H	1:A:4906:GLY:HA3	1.78	0.49
1:C:1084:GLN:NE2	1:C:1185:GLY:O	2.46	0.49
1:C:1712:TYR:CD2	1:C:1840:PRO:HB2	2.48	0.49
1:C:4581:LYS:CE	1:E:4877:ASP:O	2.61	0.49
1:E:16:THR:OG1	1:E:99:ARG:O	2.21	0.49
1:E:312:THR:O	1:E:314:PHE:N	2.41	0.49
1:E:394:GLN:HB3	1:E:397:GLU:HG2	1.94	0.49
1:E:1780:PRO:HB2	2:F:42:ARG:NH2	2.28	0.49
1:E:3921:ASP:O	1:E:3924:LEU:HB2	2.12	0.49
1:G:50:GLU:CD	1:G:51:PRO:HD2	2.38	0.49
1:G:312:THR:O	1:G:314:PHE:N	2.41	0.49
1:G:1093:GLU:HA	1:G:1148:VAL:HG13	1.95	0.49
1:G:3713:LYS:O	1:G:3715:LYS:N	2.46	0.49
1:G:4217:PHE:CZ	1:G:4234:PHE:HA	2.48	0.49
1:G:4230:LYS:NZ	1:G:4960:ILE:O	2.45	0.49
1:A:50:GLU:CD	1:A:51:PRO:HD2	2.38	0.48
1:C:674:PHE:HD1	2:D:40:ARG:HH12	1.50	0.48
1:C:1074:ILE:HA	1:C:1193:SER:HA	1.95	0.48
1:C:1735:ILE:CD1	1:C:1771:LEU:HD12	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2066:LEU:O	1:C:2069:THR:OG1	2.31	0.48
1:C:2854:GLY:O	1:C:2856:ASN:ND2	2.46	0.48
1:C:3713:LYS:O	1:C:3715:LYS:N	2.46	0.48
1:C:4141:PHE:CE1	1:C:4178:LEU:HA	2.48	0.48
1:C:4145:VAL:HG13	1:C:4194:TYR:HD2	1.77	0.48
1:E:50:GLU:CD	1:E:51:PRO:HD2	2.38	0.48
1:E:459:LEU:HD11	1:E:463:GLU:OE1	2.12	0.48
1:E:4181:ILE:HG12	1:E:4195:PHE:CE1	2.48	0.48
1:E:4887:MET:HA	1:E:4891:VAL:HG23	1.95	0.48
1:G:1245:PHE:HD2	1:G:1290:ARG:HH11	1.61	0.48
1:G:1780:PRO:HB2	2:H:42:ARG:NH2	2.28	0.48
1:G:4034:ASN:HD21	1:G:4040:ILE:CG2	2.26	0.48
1:A:473:ASN:O	1:A:477:LEU:HG	2.13	0.48
1:A:1240:LYS:HZ3	1:A:1242:LEU:HB2	1.79	0.48
1:A:1663:HIS:CE1	1:A:1667:LEU:HD11	2.47	0.48
1:A:3713:LYS:O	1:A:3715:LYS:N	2.46	0.48
1:A:4721:LYS:HD3	1:A:4741:LEU:HB3	1.95	0.48
1:C:458:GLU:O	1:C:458:GLU:HG2	2.13	0.48
1:C:473:ASN:O	1:C:477:LEU:HG	2.13	0.48
1:C:764:VAL:O	1:C:764:VAL:HG12	2.12	0.48
1:C:1277:TRP:HB2	1:C:1562:ILE:O	2.13	0.48
1:E:1556:PRO:HA	1:E:1561:VAL:HG23	1.94	0.48
1:E:3713:LYS:O	1:E:3715:LYS:N	2.46	0.48
1:G:1712:TYR:CD2	1:G:1840:PRO:HB2	2.48	0.48
1:A:264:PRO:O	1:A:266:ARG:N	2.43	0.48
1:A:1641:ILE:HD12	1:A:1642:PRO:HD2	1.96	0.48
1:A:1712:TYR:CD2	1:A:1840:PRO:HB2	2.48	0.48
1:A:3935:TRP:CB	1:C:76:ARG:HG3	2.44	0.48
1:A:4688:ILE:HG21	1:A:4728:HIS:HB3	1.95	0.48
1:A:4826:ILE:O	1:A:4829:SER:HB2	2.13	0.48
2:B:54:GLU:HG3	2:B:55:VAL:HG13	1.94	0.48
1:C:452:PHE:O	1:C:528:SER:OG	2.31	0.48
1:C:5006:GLN:O	1:C:5010:VAL:HG23	2.13	0.48
2:D:54:GLU:HG3	2:D:55:VAL:HG13	1.94	0.48
1:E:34:LYS:HB2	1:E:53:SER:HB2	1.94	0.48
1:E:473:ASN:O	1:E:477:LEU:HG	2.13	0.48
1:E:1295:VAL:O	1:E:1547:LYS:HA	2.13	0.48
1:E:1448:VAL:HG13	1:E:1554:VAL:HA	1.93	0.48
1:E:2214:VAL:HG11	1:E:2229:VAL:CG2	2.44	0.48
1:E:2874:MET:HE1	1:E:2937:VAL:HG12	1.94	0.48
2:F:49:MET:N	2:F:54:GLU:OE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1074:ILE:HA	1:G:1193:SER:HA	1.95	0.48
1:G:2214:VAL:HG11	1:G:2229:VAL:CG2	2.44	0.48
1:A:195:PHE:HE2	1:G:2358:ILE:CG2	2.27	0.48
1:A:764:VAL:O	1:A:764:VAL:HG12	2.12	0.48
1:A:1079:LYS:HZ2	1:A:1107:PRO:HB2	1.78	0.48
1:A:4234:PHE:CZ	1:A:4988:TYR:HB2	2.49	0.48
1:A:4642:ALA:O	1:A:4646:LEU:N	2.44	0.48
1:A:4677:LEU:HD23	1:A:4711:PHE:CE1	2.49	0.48
1:C:1830:VAL:HG13	1:C:1837:GLN:HB3	1.95	0.48
1:C:2214:VAL:HG11	1:C:2229:VAL:CG2	2.43	0.48
1:C:2517:PHE:O	1:C:2521:VAL:HG23	2.13	0.48
1:C:3705:PHE:HB2	1:C:3778:MET:HE1	1.95	0.48
1:C:4677:LEU:HA	1:C:4680:LYS:HD2	1.94	0.48
1:E:235:ALA:HB2	1:E:257:ARG:HD3	1.95	0.48
1:E:245:VAL:HG12	1:E:376:ALA:HB3	1.95	0.48
1:E:452:PHE:O	1:E:528:SER:OG	2.31	0.48
1:E:4141:PHE:CE1	1:E:4178:LEU:HA	2.48	0.48
1:E:4730:ASP:OD1	1:E:4731:ILE:N	2.46	0.48
1:G:597:HIS:HB2	1:G:1665:HIS:CD2	2.48	0.48
1:G:1024:TYR:HB3	1:G:1032:LYS:HD3	1.94	0.48
1:G:2754:PHE:CZ	1:G:2930:LEU:HD23	2.48	0.48
1:A:458:GLU:HG2	1:A:458:GLU:O	2.13	0.48
1:A:1093:GLU:HA	1:A:1148:VAL:HG13	1.95	0.48
1:A:4039:MET:HA	1:A:4042:ARG:HH11	1.78	0.48
1:A:4839:MET:HB3	1:G:4823:LEU:CD1	2.44	0.48
2:B:14:THR:HG22	2:B:106:LEU:HD12	1.95	0.48
1:C:1293:LEU:HD23	1:C:1584:ARG:CG	2.44	0.48
1:C:4702:ASP:OD1	1:C:4778:TRP:NE1	2.31	0.48
2:D:14:THR:HG22	2:D:106:LEU:HD12	1.95	0.48
2:D:25:HIS:O	2:D:102:GLU:N	2.39	0.48
1:E:1112:ASP:OD1	1:E:1606:SER:HB3	2.14	0.48
1:E:2854:GLY:O	1:E:2856:ASN:ND2	2.46	0.48
1:E:4979:THR:O	1:E:4984:ASN:N	2.30	0.48
1:G:636:ASN:HD21	2:H:35:LYS:HD3	1.79	0.48
1:G:764:VAL:O	1:G:764:VAL:HG12	2.13	0.48
1:G:1277:TRP:HB2	1:G:1562:ILE:O	2.13	0.48
1:G:2305:CYS:HB2	1:G:2325:PRO:HG2	1.96	0.48
1:G:2854:GLY:O	1:G:2856:ASN:ND2	2.46	0.48
1:G:4921:PHE:CD1	1:G:4925:ILE:HG13	2.49	0.48
1:G:4951:LYS:O	1:G:4955:GLU:HG2	2.13	0.48
1:G:5027:CYS:HB3	1:G:5030:LYS:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:625:LEU:HB3	1:C:632:LEU:HD23	1.95	0.48
1:C:791:PHE:HB2	1:C:1626:TRP:HB2	1.95	0.48
1:C:2173:GLN:N	1:C:2173:GLN:OE1	2.46	0.48
1:C:2358:ILE:CG2	1:E:195:PHE:HE2	2.27	0.48
1:E:519:VAL:HG22	1:E:523:TYR:CE2	2.48	0.48
1:E:3811:GLU:HA	1:E:3814:GLN:HG2	1.95	0.48
1:E:4039:MET:HA	1:E:4042:ARG:HH11	1.78	0.48
1:G:452:PHE:O	1:G:528:SER:OG	2.32	0.48
1:G:519:VAL:HG22	1:G:523:TYR:CE2	2.49	0.48
1:G:1098:GLY:HA3	1:G:1198:GLN:HE21	1.78	0.48
1:G:1112:ASP:OD1	1:G:1606:SER:HB3	2.14	0.48
1:G:1641:ILE:HD12	1:G:1642:PRO:HD2	1.96	0.48
1:G:2142:TYR:HE1	1:G:2196:ASN:HD22	1.62	0.48
1:G:4141:PHE:HE1	1:G:4178:LEU:HA	1.78	0.48
1:G:4640:GLU:HB3	1:G:4641:PRO:HD3	1.95	0.48
1:A:160:GLY:O	1:G:3984:ARG:NH1	2.43	0.48
1:A:519:VAL:HG22	1:A:523:TYR:CE2	2.48	0.48
1:A:1830:VAL:HG13	1:A:1837:GLN:HB3	1.96	0.48
1:C:355:LEU:HB2	1:C:378:LEU:HB3	1.96	0.48
1:C:1098:GLY:HA3	1:C:1198:GLN:HE21	1.78	0.48
1:C:3835:LEU:O	1:C:3839:CYS:N	2.46	0.48
1:E:107:ILE:H	1:E:148:TRP:H	1.62	0.48
1:E:720:HIS:HB2	1:E:728:ARG:O	2.14	0.48
1:G:1092:PHE:HZ	1:G:1100:MET:HE3	1.79	0.48
1:G:1735:ILE:CD1	1:G:1771:LEU:HD12	2.43	0.48
1:G:2383:ALA:HB1	1:G:2423:MET:SD	2.54	0.48
1:G:3768:SER:O	1:G:3772:THR:HG23	2.13	0.48
1:G:3810:ALA:HA	1:G:3813:GLN:HB2	1.94	0.48
1:G:4730:ASP:OD1	1:G:4731:ILE:N	2.46	0.48
1:A:492:ASP:OD1	1:A:546:TRP:NE1	2.42	0.48
1:A:675:LEU:O	1:A:676:THR:OG1	2.27	0.48
1:A:3882:GLN:HE22	1:A:3956:SER:HB3	1.78	0.48
1:C:50:GLU:CD	1:C:51:PRO:HD2	2.38	0.48
1:C:235:ALA:HB2	1:C:257:ARG:HD3	1.95	0.48
1:C:1295:VAL:O	1:C:1547:LYS:HA	2.14	0.48
1:C:2870:GLU:OE2	1:C:2939:ARG:NH2	2.47	0.48
1:C:2927:LEU:HD23	1:C:2930:LEU:HD12	1.96	0.48
1:C:3662:ILE:HG22	1:C:3662:ILE:O	2.14	0.48
1:C:4055:VAL:HA	1:C:4058:ILE:HG12	1.95	0.48
1:C:4242:ILE:O	1:C:4246:GLN:HG2	2.13	0.48
1:E:1084:GLN:NE2	1:E:1185:GLY:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1762:LEU:HD12	1:E:1763:PRO:HD2	1.96	0.48
1:E:3662:ILE:HG22	1:E:3662:ILE:O	2.14	0.48
1:E:4580:TYR:HB2	1:E:4631:PHE:HD1	1.78	0.48
1:E:4778:TRP:O	1:E:4782:VAL:HG23	2.14	0.48
1:G:1295:VAL:O	1:G:1547:LYS:HA	2.14	0.48
1:G:2771:ILE:HD11	1:G:2857:PRO:HD2	1.96	0.48
1:G:3780:LEU:HG	1:G:3828:PHE:CE1	2.48	0.48
1:G:3835:LEU:HD22	1:G:3884:LEU:HD13	1.95	0.48
1:A:342:GLY:N	1:A:390:LEU:O	2.46	0.48
1:A:451:TYR:HD2	1:A:452:PHE:CE2	2.32	0.48
1:A:593:HIS:HB3	1:A:596:ASN:HD22	1.79	0.48
1:A:2927:LEU:HD23	1:A:2930:LEU:HD12	1.95	0.48
1:A:4578:LEU:HG	1:A:4578:LEU:O	2.14	0.48
1:A:4821:LYS:HD3	1:A:4947:GLN:HE22	1.79	0.48
1:A:4839:MET:HB3	1:G:4823:LEU:HD12	1.96	0.48
1:C:215:THR:O	1:C:218:HIS:HB3	2.14	0.48
1:C:593:HIS:HB3	1:C:596:ASN:HD22	1.79	0.48
1:C:1093:GLU:HA	1:C:1148:VAL:HG13	1.96	0.48
1:C:4234:PHE:CZ	1:C:4988:TYR:HB2	2.49	0.48
1:E:110:ARG:HG2	1:E:117:TYR:CE1	2.48	0.48
1:E:355:LEU:HB2	1:E:378:LEU:HB3	1.96	0.48
1:E:1092:PHE:HZ	1:E:1100:MET:HE3	1.79	0.48
1:E:1641:ILE:HD12	1:E:1642:PRO:HD2	1.96	0.48
1:E:4039:MET:HA	1:E:4042:ARG:HE	1.79	0.48
1:E:4945:ASP:O	1:E:4949:GLN:HB2	2.14	0.48
2:F:74:LEU:HD23	2:F:76:ILE:HD11	1.95	0.48
1:G:178:ARG:HD3	1:G:195:PHE:CE1	2.49	0.48
1:G:785:ALA:HA	1:G:1633:PRO:HD3	1.96	0.48
1:G:791:PHE:HB2	1:G:1626:TRP:HB2	1.95	0.48
1:G:2671:GLU:CB	1:G:2913:ALA:H	2.27	0.48
1:G:2735:PHE:HD2	1:G:2891:LYS:HD2	1.78	0.48
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.36	0.48
1:G:3980:LEU:HA	1:G:3983:SER:HB2	1.96	0.48
1:G:4779:LYS:O	1:G:4783:ILE:HG13	2.13	0.48
1:G:4844:LEU:O	1:G:4848:VAL:HG23	2.14	0.48
1:A:1556:PRO:HA	1:A:1561:VAL:HG23	1.94	0.48
1:A:3953:LYS:O	1:A:3957:VAL:HG23	2.14	0.48
1:A:4242:ILE:O	1:A:4246:GLN:HG2	2.13	0.48
1:A:4672:LYS:O	1:A:4676:GLU:HG3	2.14	0.48
1:C:1511:HIS:CE1	1:C:1532:ASN:HD21	2.31	0.48
1:C:1641:ILE:HD12	1:C:1642:PRO:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2062:ARG:O	1:C:2065:SER:OG	2.22	0.48
1:C:2121:PHE:CE1	1:C:3701:LEU:HD12	2.49	0.48
1:C:4039:MET:HA	1:C:4042:ARG:HH11	1.78	0.48
2:D:49:MET:N	2:D:54:GLU:OE2	2.46	0.48
1:E:342:GLY:N	1:E:390:LEU:O	2.46	0.48
1:E:1864:LYS:HZ2	1:E:1869:GLU:C	2.22	0.48
1:E:2907:PRO:O	1:E:2910:THR:OG1	2.25	0.48
1:E:4677:LEU:HD23	1:E:4711:PHE:CE1	2.49	0.48
1:G:2907:PRO:O	1:G:2910:THR:OG1	2.25	0.48
1:G:3980:LEU:HB3	1:G:3985:LEU:HD22	1.96	0.48
1:A:119:SER:O	1:A:136:GLY:N	2.31	0.47
1:A:215:THR:O	1:A:218:HIS:HB3	2.14	0.47
1:A:1931:LEU:HD22	1:A:1935:VAL:HG11	1.96	0.47
1:A:2159:LEU:O	1:A:2162:ILE:HG22	2.14	0.47
1:A:3835:LEU:O	1:A:3839:CYS:N	2.46	0.47
1:A:3923:LEU:HD12	1:A:3961:VAL:HG12	1.96	0.47
1:A:4055:VAL:HA	1:A:4058:ILE:HG12	1.95	0.47
1:A:4141:PHE:CE1	1:A:4178:LEU:HA	2.48	0.47
1:A:4702:ASP:O	1:A:4705:VAL:HG12	2.14	0.47
1:A:4702:ASP:OD1	1:A:4778:TRP:NE1	2.32	0.47
1:C:3780:LEU:HD11	1:C:3820:LEU:HD21	1.96	0.47
1:C:3811:GLU:HA	1:C:3814:GLN:HG2	1.96	0.47
1:C:3996:PHE:CE2	1:C:4019:LEU:HD22	2.49	0.47
1:E:451:TYR:HD2	1:E:452:PHE:CE2	2.31	0.47
1:E:639:ASN:ND2	1:E:676:THR:OG1	2.45	0.47
1:E:1130:GLN:NE2	1:E:1132:TRP:HE1	2.11	0.47
1:E:4234:PHE:CZ	1:E:4988:TYR:HB2	2.49	0.47
1:E:4833:ASN:OD1	1:E:4836:GLN:HG2	2.14	0.47
1:G:107:ILE:H	1:G:148:TRP:H	1.62	0.47
1:G:636:ASN:ND2	2:H:35:LYS:HD3	2.28	0.47
1:G:2295:LEU:HD22	1:G:2335:LEU:CD2	2.44	0.47
1:G:3996:PHE:CE2	1:G:4019:LEU:HD22	2.49	0.47
1:A:489:ASN:HB3	1:A:493:ARG:HH22	1.78	0.47
1:A:717:ASP:CG	2:B:7:ILE:HA	2.39	0.47
1:A:1112:ASP:OD1	1:A:1606:SER:HB3	2.14	0.47
1:A:1762:LEU:HD12	1:A:1763:PRO:HD2	1.95	0.47
1:A:2121:PHE:CE1	1:A:3701:LEU:HD12	2.49	0.47
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.14	0.47
1:A:2353:VAL:HG12	1:A:2357:LEU:HD11	1.97	0.47
1:A:4898:GLY:HA3	1:G:4888:TYR:OH	2.14	0.47
1:C:16:THR:OG1	1:C:99:ARG:O	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107:ILE:H	1:C:148:TRP:H	1.62	0.47
1:C:178:ARG:HD3	1:C:195:PHE:CE1	2.49	0.47
1:C:4181:ILE:HG12	1:C:4195:PHE:CE1	2.48	0.47
1:E:489:ASN:HB3	1:E:493:ARG:HH22	1.78	0.47
1:E:682:LEU:HG	1:E:682:LEU:O	2.14	0.47
1:E:1024:TYR:HB3	1:E:1032:LYS:HD3	1.95	0.47
1:E:1098:GLY:HA3	1:E:1198:GLN:HE21	1.79	0.47
1:E:1293:LEU:HD23	1:E:1584:ARG:CG	2.44	0.47
1:E:4024:VAL:HA	1:E:4027:LEU:HD12	1.97	0.47
1:G:489:ASN:HB3	1:G:493:ARG:HH22	1.79	0.47
1:G:931:THR:HA	1:G:934:ALA:HB3	1.96	0.47
1:G:1084:GLN:NE2	1:G:1185:GLY:O	2.47	0.47
1:G:1252:HIS:CG	1:G:1253:PRO:HD2	2.49	0.47
1:G:2745:VAL:HG21	1:G:2818:ALA:HB2	1.95	0.47
1:G:3775:ALA:O	1:G:3779:VAL:HG23	2.14	0.47
1:A:2295:LEU:HD22	1:A:2335:LEU:CD2	2.44	0.47
1:A:4039:MET:HA	1:A:4042:ARG:HE	1.79	0.47
1:A:4137:ARG:HD2	1:A:4177:TYR:CZ	2.50	0.47
1:C:531:ARG:HG2	1:C:566:CYS:SG	2.55	0.47
1:C:720:HIS:HB2	1:C:728:ARG:O	2.14	0.47
1:C:4003:LEU:CB	1:C:4013:LEU:HD12	2.44	0.47
1:C:4563:ARG:NH1	1:C:4815:ASP:OD1	2.47	0.47
1:C:4645:CYS:O	1:C:4649:LEU:N	2.45	0.47
1:E:531:ARG:HG2	1:E:566:CYS:SG	2.55	0.47
1:E:717:ASP:CG	2:F:7:ILE:HA	2.39	0.47
1:E:1088:TRP:CZ3	1:E:1226:PHE:HD1	2.33	0.47
1:E:2066:LEU:O	1:E:2069:THR:OG1	2.31	0.47
1:E:2870:GLU:OE2	1:E:2939:ARG:NH2	2.47	0.47
1:E:3835:LEU:O	1:E:3839:CYS:N	2.47	0.47
1:E:4145:VAL:HG13	1:E:4194:TYR:HD2	1.78	0.47
1:G:531:ARG:HG2	1:G:566:CYS:SG	2.54	0.47
1:G:1240:LYS:HZ3	1:G:1242:LEU:HB2	1.79	0.47
1:G:3970:GLN:HE21	1:G:5004:THR:HA	1.77	0.47
1:G:4234:PHE:HZ	1:G:4988:TYR:HB2	1.77	0.47
1:A:150:MET:HG2	1:A:171:LEU:HD23	1.95	0.47
1:A:178:ARG:HD3	1:A:195:PHE:CE1	2.49	0.47
1:A:355:LEU:HB2	1:A:378:LEU:HB3	1.96	0.47
1:A:857:ASP:O	1:A:991:ASN:ND2	2.47	0.47
1:A:1205:GLY:HA3	1:A:1227:ALA:CB	2.40	0.47
1:A:1729:SER:O	1:A:1733:GLU:HG2	2.14	0.47
1:A:1961:PHE:CZ	1:A:2063:LEU:HD22	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2870:GLU:OE2	1:A:2939:ARG:NH2	2.47	0.47
1:C:451:TYR:HD2	1:C:452:PHE:CE2	2.31	0.47
1:C:489:ASN:HB3	1:C:493:ARG:HH22	1.78	0.47
1:C:519:VAL:HG22	1:C:523:TYR:CE2	2.48	0.47
1:C:717:ASP:CG	2:D:7:ILE:HA	2.39	0.47
1:C:1762:LEU:HD12	1:C:1763:PRO:HD2	1.96	0.47
1:C:4039:MET:HA	1:C:4042:ARG:HE	1.79	0.47
1:C:4888:TYR:OH	1:E:4898:GLY:HA3	2.15	0.47
1:E:862:VAL:HA	1:E:930:LYS:NZ	2.30	0.47
1:E:2121:PHE:CE1	1:E:3701:LEU:HD12	2.49	0.47
1:E:3501:ASP:HA	1:G:1224:GLU:OE2	2.13	0.47
1:E:4642:ALA:O	1:E:4646:LEU:N	2.44	0.47
1:G:355:LEU:HB2	1:G:378:LEU:HB3	1.97	0.47
1:G:473:ASN:O	1:G:477:LEU:HG	2.13	0.47
1:G:1457:TYR:CZ	1:G:1459:GLN:NE2	2.82	0.47
1:G:2351:ASN:O	1:G:2355:ARG:HG2	2.14	0.47
1:G:3677:LEU:O	1:G:3698:LEU:N	2.47	0.47
1:G:3959:LYS:HE3	1:G:4018:ASP:HB3	1.96	0.47
1:G:4192:ARG:NH1	1:G:5028:PHE:HD2	2.12	0.47
1:G:4230:LYS:HD2	1:G:4959:PHE:O	2.14	0.47
1:G:5011:TRP:O	1:G:5015:GLN:HG2	2.14	0.47
1:A:177:GLU:OE2	1:G:2452:ARG:NH2	2.46	0.47
1:A:758:ARG:NE	1:A:804:PRO:HG3	2.29	0.47
1:A:1514:LEU:N	1:A:1514:LEU:CD1	2.77	0.47
1:C:459:LEU:HD11	1:C:463:GLU:OE1	2.13	0.47
1:C:636:ASN:ND2	2:D:35:LYS:HD3	2.28	0.47
1:C:639:ASN:ND2	1:C:676:THR:OG1	2.45	0.47
1:C:1432:THR:N	1:C:1519:LEU:O	2.48	0.47
1:C:2295:LEU:HD22	1:C:2335:LEU:CD2	2.44	0.47
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.14	0.47
1:C:3902:TYR:HE1	1:C:3908:GLY:H	1.62	0.47
1:C:4578:LEU:O	1:C:4578:LEU:HG	2.15	0.47
2:D:87:HIS:HB3	2:D:91:ILE:H	1.80	0.47
1:E:1729:SER:O	1:E:1733:GLU:HG2	2.14	0.47
1:E:3780:LEU:HD11	1:E:3820:LEU:HD21	1.96	0.47
1:E:3882:GLN:HE22	1:E:3956:SER:HB3	1.78	0.47
1:E:4672:LYS:O	1:E:4676:GLU:HG3	2.14	0.47
1:E:4886:HIS:O	1:E:4890:GLY:N	2.48	0.47
1:G:2353:VAL:HG12	1:G:2357:LEU:HD11	1.96	0.47
1:G:3190:LEU:O	1:G:3194:LEU:N	2.46	0.47
1:G:3835:LEU:HD22	1:G:3884:LEU:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3891:LEU:HB3	1:G:3899:PHE:HE2	1.80	0.47
1:G:4580:TYR:HB2	1:G:4631:PHE:CD1	2.49	0.47
1:A:39:ALA:HA	1:A:48:PHE:CE2	2.50	0.47
1:A:134:ASP:OD1	1:A:135:VAL:N	2.48	0.47
1:A:516:LYS:HG3	1:A:517:GLU:N	2.28	0.47
1:A:682:LEU:O	1:A:682:LEU:HG	2.14	0.47
1:A:720:HIS:HB2	1:A:728:ARG:O	2.14	0.47
1:A:1084:GLN:NE2	1:A:1185:GLY:O	2.48	0.47
1:A:1295:VAL:O	1:A:1547:LYS:HA	2.14	0.47
1:A:3811:GLU:HA	1:A:3814:GLN:HG2	1.96	0.47
1:A:4181:ILE:HG12	1:A:4195:PHE:CE1	2.48	0.47
1:A:4207:MET:HG2	1:A:4208:PRO:CD	2.42	0.47
1:A:4642:ALA:O	1:A:4646:LEU:HG	2.15	0.47
1:C:516:LYS:HG3	1:C:517:GLU:N	2.28	0.47
1:C:931:THR:HA	1:C:934:ALA:HB3	1.97	0.47
1:C:1112:ASP:OD1	1:C:1606:SER:HB3	2.14	0.47
1:C:1457:TYR:CZ	1:C:1459:GLN:NE2	2.83	0.47
1:C:2244:ARG:HH11	1:C:2248:ARG:HH21	1.60	0.47
1:C:4672:LYS:O	1:C:4676:GLU:HG3	2.14	0.47
1:C:4945:ASP:O	1:C:4949:GLN:HB2	2.14	0.47
1:E:892:THR:N	1:E:902:ARG:HA	2.29	0.47
1:E:1093:GLU:HA	1:E:1148:VAL:HG13	1.96	0.47
1:E:2062:ARG:O	1:E:2065:SER:OG	2.21	0.47
1:E:2351:ASN:O	1:E:2355:ARG:HG2	2.14	0.47
1:E:2383:ALA:HB1	1:E:2423:MET:SD	2.55	0.47
1:E:4688:ILE:HG21	1:E:4728:HIS:HB3	1.95	0.47
1:E:4822:THR:HG22	1:G:4839:MET:SD	2.55	0.47
1:G:1072:VAL:HB	1:G:1607:ARG:NH1	2.30	0.47
1:G:4000:MET:HE1	1:G:4061:PHE:CE2	2.49	0.47
1:G:4666:VAL:HA	1:G:4669:VAL:HG12	1.95	0.47
1:A:102:LEU:HB2	1:A:105:HIS:HD2	1.72	0.47
1:A:249:GLY:O	1:A:252:VAL:HG12	2.15	0.47
1:A:1119:GLU:C	1:A:1133:HIS:HE2	2.22	0.47
1:A:1277:TRP:HB2	1:A:1562:ILE:O	2.13	0.47
1:A:1294:PRO:CB	1:A:1547:LYS:HB3	2.45	0.47
1:A:1432:THR:N	1:A:1519:LEU:O	2.48	0.47
1:A:2173:GLN:HG2	1:A:2174:GLU:N	2.20	0.47
1:A:2437:ALA:HB1	1:A:2454:ARG:CZ	2.45	0.47
1:A:4877:ASP:O	1:G:4581:LYS:HE2	2.15	0.47
2:B:42:ARG:C	2:B:44:LYS:H	2.23	0.47
1:C:102:LEU:HB2	1:C:105:HIS:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:SER:OG	1:C:136:GLY:O	2.25	0.47
1:C:173:SER:HG	1:C:175:SER:HG	1.60	0.47
1:C:682:LEU:HG	1:C:682:LEU:O	2.14	0.47
1:C:758:ARG:NE	1:C:804:PRO:HG3	2.30	0.47
1:C:862:VAL:HA	1:C:930:LYS:NZ	2.30	0.47
1:C:943:ASP:HB3	1:C:1050:GLY:HA3	1.96	0.47
1:C:1072:VAL:HB	1:C:1607:ARG:NH1	2.30	0.47
1:C:1106:ARG:HE	1:C:1188:PHE:HE1	1.62	0.47
1:C:1767:VAL:C	1:C:1768:THR:HG1	2.22	0.47
1:C:1864:LYS:NZ	1:C:1869:GLU:C	2.73	0.47
1:C:1961:PHE:CZ	1:C:2063:LEU:HD22	2.50	0.47
1:E:1775:HIS:ND1	1:E:1775:HIS:O	2.48	0.47
1:E:1830:VAL:HG13	1:E:1837:GLN:HB3	1.95	0.47
1:E:2159:LEU:O	1:E:2162:ILE:HG22	2.15	0.47
1:E:2927:LEU:HD23	1:E:2930:LEU:HD12	1.95	0.47
1:E:3996:PHE:CE2	1:E:4019:LEU:HD22	2.48	0.47
1:E:4137:ARG:HD2	1:E:4177:TYR:CZ	2.49	0.47
1:G:215:THR:O	1:G:218:HIS:HB3	2.14	0.47
1:G:235:ALA:HB2	1:G:257:ARG:HD3	1.96	0.47
1:G:342:GLY:N	1:G:390:LEU:O	2.47	0.47
1:G:1130:GLN:NE2	1:G:1132:TRP:HE1	2.11	0.47
1:G:1293:LEU:HD23	1:G:1584:ARG:CG	2.45	0.47
1:G:1830:VAL:HG13	1:G:1837:GLN:HB3	1.96	0.47
1:G:2117:VAL:O	1:G:2120:MET:HB2	2.15	0.47
1:G:2159:LEU:O	1:G:2162:ILE:HG22	2.14	0.47
1:G:3938:SER:HB2	1:G:4002:LYS:NZ	2.30	0.47
1:G:4579:PHE:HB3	1:G:4632:LEU:O	2.14	0.47
1:G:4699:GLY:HA2	1:G:4702:ASP:HB2	1.96	0.47
1:G:4810:ALA:O	1:G:4813:LEU:HG	2.15	0.47
1:G:4826:ILE:O	1:G:4830:VAL:HG23	2.15	0.47
1:A:1101:ARG:HG3	1:A:1193:SER:OG	2.15	0.47
1:A:1729:SER:O	1:A:1732:SER:OG	2.19	0.47
1:A:2383:ALA:HB1	1:A:2423:MET:SD	2.55	0.47
1:A:2427:ALA:O	1:A:2430:ILE:HG22	2.14	0.47
1:A:4945:ASP:O	1:A:4949:GLN:HB2	2.14	0.47
1:C:449:ILE:O	1:C:453:GLU:HG2	2.15	0.47
1:C:1092:PHE:HZ	1:C:1100:MET:HE3	1.79	0.47
1:C:1101:ARG:HG3	1:C:1193:SER:OG	2.15	0.47
1:C:3794:VAL:O	1:C:3797:THR:OG1	2.29	0.47
1:C:3882:GLN:HE22	1:C:3956:SER:HB3	1.78	0.47
1:C:3953:LYS:O	1:C:3957:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4702:ASP:O	1:C:4705:VAL:HG12	2.15	0.47
1:C:4833:ASN:OD1	1:C:4836:GLN:HG2	2.14	0.47
1:E:1432:THR:N	1:E:1519:LEU:O	2.48	0.47
1:E:2353:VAL:HG12	1:E:2357:LEU:HD11	1.97	0.47
1:E:2437:ALA:HB1	1:E:2454:ARG:CZ	2.44	0.47
1:G:134:ASP:OD1	1:G:135:VAL:N	2.48	0.47
1:G:675:LEU:O	1:G:676:THR:OG1	2.27	0.47
1:G:943:ASP:HB3	1:G:1050:GLY:HA3	1.96	0.47
1:G:1088:TRP:CZ3	1:G:1226:PHE:HD1	2.33	0.47
1:G:1864:LYS:NZ	1:G:1869:GLU:C	2.73	0.47
1:G:1931:LEU:HD22	1:G:1935:VAL:HG11	1.97	0.47
1:G:4672:LYS:O	1:G:4676:GLU:HG3	2.15	0.47
1:G:4906:GLY:H	1:G:4910:GLU:HG3	1.80	0.47
2:H:87:HIS:HB3	2:H:91:ILE:H	1.79	0.47
1:A:1072:VAL:HB	1:A:1607:ARG:NH1	2.30	0.47
1:A:1775:HIS:ND1	1:A:1775:HIS:O	2.48	0.47
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.14	0.47
1:C:39:ALA:HA	1:C:48:PHE:CE2	2.49	0.47
1:C:134:ASP:OD1	1:C:135:VAL:N	2.48	0.47
1:C:737:LEU:HD11	2:D:7:ILE:CG2	2.44	0.47
1:C:1088:TRP:CZ3	1:C:1226:PHE:HD1	2.33	0.47
1:C:1775:HIS:ND1	1:C:1775:HIS:O	2.48	0.47
1:C:2159:LEU:O	1:C:2162:ILE:HG22	2.15	0.47
1:C:2353:VAL:HG12	1:C:2357:LEU:HD11	1.97	0.47
1:C:2437:ALA:HB1	1:C:2454:ARG:CZ	2.45	0.47
1:C:3923:LEU:HD12	1:C:3961:VAL:HG12	1.97	0.47
1:C:4913:ARG:O	1:C:4916:PHE:HB3	2.15	0.47
1:E:178:ARG:HD3	1:E:195:PHE:CE1	2.50	0.47
1:E:458:GLU:O	1:E:458:GLU:HG2	2.13	0.47
1:E:758:ARG:NE	1:E:804:PRO:HG3	2.30	0.47
1:E:1931:LEU:HD22	1:E:1935:VAL:HG11	1.97	0.47
1:E:2295:LEU:HD22	1:E:2335:LEU:CD2	2.44	0.47
1:E:4207:MET:HG2	1:E:4208:PRO:CD	2.42	0.47
1:G:449:ILE:O	1:G:453:GLU:HG2	2.15	0.47
1:G:758:ARG:NE	1:G:804:PRO:HG3	2.30	0.47
1:G:2191:PHE:CD1	1:G:2198:MET:HE2	2.50	0.47
1:G:2427:ALA:O	1:G:2430:ILE:HG22	2.15	0.47
1:A:449:ILE:O	1:A:453:GLU:HG2	2.15	0.47
1:A:2211:MET:O	1:A:2215:LEU:HG	2.15	0.47
1:A:4913:ARG:O	1:A:4916:PHE:HB3	2.15	0.47
1:C:149:THR:HG23	1:C:174:VAL:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1734:TYR:OH	1:C:1948:ASP:OD1	2.19	0.47
1:C:2499:LYS:O	1:C:2503:VAL:HG23	2.15	0.47
1:C:3655:GLU:O	1:C:3658:LYS:HB3	2.16	0.47
1:C:3838:THR:C	1:C:3839:CYS:SG	2.98	0.47
1:C:4137:ARG:HD2	1:C:4177:TYR:CZ	2.49	0.47
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.15	0.47
1:E:215:THR:O	1:E:218:HIS:HB3	2.14	0.47
1:E:1154:ASP:HB3	1:E:1157:GLU:HB3	1.97	0.47
1:E:1961:PHE:CZ	1:E:2063:LEU:HD22	2.49	0.47
1:E:2211:MET:O	1:E:2215:LEU:HG	2.15	0.47
1:E:4003:LEU:CB	1:E:4013:LEU:HD12	2.45	0.47
1:G:4642:ALA:O	1:G:4646:LEU:HG	2.15	0.47
1:A:737:LEU:HD11	2:B:7:ILE:CG2	2.43	0.46
1:A:1252:HIS:CG	1:A:1253:PRO:HD2	2.50	0.46
1:A:2771:ILE:HD11	1:A:2857:PRO:HD2	1.97	0.46
1:A:4581:LYS:CE	1:C:4877:ASP:O	2.63	0.46
1:C:1154:ASP:HB3	1:C:1157:GLU:HB3	1.97	0.46
1:C:1931:LEU:HD22	1:C:1935:VAL:HG11	1.97	0.46
1:E:102:LEU:HB2	1:E:105:HIS:NE2	2.29	0.46
1:E:264:PRO:O	1:E:266:ARG:N	2.43	0.46
1:E:737:LEU:HB3	1:E:738:LEU:H	1.56	0.46
1:E:791:PHE:HB2	1:E:1626:TRP:HB2	1.95	0.46
1:E:1106:ARG:HE	1:E:1188:PHE:HE1	1.63	0.46
1:E:1864:LYS:NZ	1:E:1869:GLU:C	2.73	0.46
1:E:3780:LEU:HG	1:E:3828:PHE:CE1	2.51	0.46
1:E:3838:THR:C	1:E:3839:CYS:SG	2.98	0.46
1:E:4702:ASP:O	1:E:4705:VAL:HG12	2.15	0.46
1:G:39:ALA:HA	1:G:48:PHE:CE2	2.50	0.46
1:G:149:THR:HG23	1:G:174:VAL:HG22	1.97	0.46
1:G:3732:SER:HG	1:G:3803:SER:HG	1.59	0.46
1:G:3804:ILE:O	1:G:3809:ASN:ND2	2.48	0.46
1:G:3906:GLN:HB3	1:G:3912:THR:HA	1.96	0.46
1:G:3916:ILE:O	1:G:3919:THR:HG22	2.15	0.46
1:G:4024:VAL:O	1:G:4027:LEU:HB2	2.15	0.46
1:G:4920:PHE:O	1:G:4924:VAL:HB	2.15	0.46
2:H:38:SER:HB3	2:H:41:ASP:OD2	2.14	0.46
1:A:195:PHE:CE2	1:G:2358:ILE:HG21	2.50	0.46
1:A:634:GLN:HG3	1:A:1640:HIS:CE1	2.50	0.46
1:A:943:ASP:HB3	1:A:1050:GLY:HA3	1.96	0.46
1:A:1093:GLU:HA	1:A:1148:VAL:HG22	1.97	0.46
1:A:3780:LEU:HG	1:A:3828:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1729:SER:O	1:C:1733:GLU:HG2	2.15	0.46
1:C:2383:ALA:HB1	1:C:2423:MET:SD	2.55	0.46
1:C:3501:ASP:HA	1:E:1224:GLU:OE2	2.15	0.46
2:D:88:PRO:O	2:D:90:ILE:HD12	2.16	0.46
1:E:593:HIS:HB3	1:E:596:ASN:HD22	1.79	0.46
1:E:1072:VAL:HB	1:E:1607:ARG:NH1	2.30	0.46
1:E:4664:LEU:O	1:E:4667:PRO:HD2	2.16	0.46
1:E:4822:THR:O	1:E:4826:ILE:HG13	2.15	0.46
1:G:634:GLN:HG3	1:G:1640:HIS:CE1	2.50	0.46
1:G:1294:PRO:CB	1:G:1547:LYS:HB3	2.46	0.46
1:G:1748:PHE:HE1	1:G:2072:LEU:C	2.23	0.46
1:G:2553:TYR:CD1	1:G:2556:LEU:HD12	2.50	0.46
1:G:4023:MET:O	1:G:4026:MET:HG2	2.15	0.46
1:G:4720:VAL:O	1:G:4724:VAL:HG23	2.14	0.46
1:G:4991:PHE:O	1:G:4995:LEU:HG	2.16	0.46
1:A:350:HIS:O	1:A:354:GLY:HA2	2.15	0.46
1:A:791:PHE:HB2	1:A:1626:TRP:HB2	1.95	0.46
1:A:1943:LEU:HD11	1:A:2098:VAL:HG22	1.97	0.46
1:A:2748:PRO:HD2	1:A:2751:LEU:HD12	1.97	0.46
1:A:3655:GLU:O	1:A:3658:LYS:HB3	2.16	0.46
1:A:4039:MET:CA	1:A:4042:ARG:HH11	2.29	0.46
1:C:3780:LEU:HG	1:C:3828:PHE:CE1	2.50	0.46
1:C:4574:ASN:ND2	1:C:4813:LEU:HD23	2.31	0.46
1:E:489:ASN:HB3	1:E:493:ARG:NH2	2.30	0.46
1:E:634:GLN:HG3	1:E:1640:HIS:CE1	2.50	0.46
1:E:931:THR:HA	1:E:934:ALA:HB3	1.97	0.46
1:E:1119:GLU:C	1:E:1133:HIS:HE2	2.22	0.46
1:E:1439:VAL:O	1:E:1513:ASP:N	2.44	0.46
1:E:2059:LEU:CD2	1:E:2062:ARG:HH12	2.20	0.46
1:E:2305:CYS:HB2	1:E:2325:PRO:HG2	1.97	0.46
1:E:3655:GLU:O	1:E:3658:LYS:HB3	2.15	0.46
1:E:3923:LEU:HD12	1:E:3961:VAL:HG12	1.97	0.46
1:E:3953:LYS:O	1:E:3957:VAL:HG23	2.14	0.46
1:E:3986:TRP:HD1	1:E:4047:MET:SD	2.39	0.46
1:E:4039:MET:CA	1:E:4042:ARG:HH11	2.29	0.46
2:F:87:HIS:HB3	2:F:91:ILE:H	1.80	0.46
1:G:249:GLY:O	1:G:252:VAL:HG12	2.15	0.46
1:G:1951:LEU:O	1:G:1955:VAL:HG23	2.16	0.46
1:G:2437:ALA:HB1	1:G:2454:ARG:CZ	2.44	0.46
1:G:4239:GLU:OE2	1:G:5014:TYR:HE1	1.98	0.46
1:G:4778:TRP:O	1:G:4782:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4976:GLU:O	1:G:4980:LEU:N	2.48	0.46
2:H:54:GLU:HG3	2:H:55:VAL:HG13	1.97	0.46
1:A:531:ARG:HG2	1:A:566:CYS:SG	2.55	0.46
1:A:3780:LEU:HD11	1:A:3820:LEU:HD21	1.96	0.46
1:A:4674:GLU:OE2	1:A:4712:PRO:HA	2.15	0.46
1:C:1119:GLU:C	1:C:1133:HIS:HE2	2.21	0.46
1:C:2427:ALA:O	1:C:2430:ILE:HG22	2.14	0.46
1:E:1141:ARG:NH1	1:E:1169:LEU:HD11	2.28	0.46
1:E:1294:PRO:CB	1:E:1547:LYS:HB3	2.46	0.46
1:E:2290:LEU:HD11	1:E:2349:ASN:OD1	2.16	0.46
1:E:2427:ALA:O	1:E:2430:ILE:HG22	2.15	0.46
1:E:3836:MET:HE2	1:E:3885:PHE:CE1	2.50	0.46
1:E:4151:SER:HA	1:E:4160:LEU:HD21	1.96	0.46
1:G:1775:HIS:ND1	1:G:1775:HIS:O	2.48	0.46
1:G:2173:GLN:CG	1:G:2174:GLU:H	2.21	0.46
1:A:107:ILE:H	1:A:148:TRP:H	1.63	0.46
1:A:149:THR:HG23	1:A:174:VAL:HG22	1.97	0.46
1:A:1130:GLN:NE2	1:A:1132:TRP:HE1	2.11	0.46
1:A:1864:LYS:NZ	1:A:1869:GLU:C	2.73	0.46
1:A:3838:THR:C	1:A:3839:CYS:SG	2.99	0.46
1:C:792:LEU:HB3	1:C:799:GLU:O	2.16	0.46
1:C:2211:MET:O	1:C:2215:LEU:HG	2.15	0.46
1:C:2305:CYS:HB2	1:C:2325:PRO:HG2	1.97	0.46
1:C:4886:HIS:O	1:C:4891:VAL:N	2.42	0.46
1:E:39:ALA:HA	1:E:48:PHE:CE2	2.50	0.46
1:E:134:ASP:OD1	1:E:135:VAL:N	2.48	0.46
1:E:449:ILE:O	1:E:453:GLU:HG2	2.16	0.46
1:E:785:ALA:HA	1:E:1633:PRO:HD3	1.98	0.46
1:E:1252:HIS:CG	1:E:1253:PRO:HD2	2.50	0.46
1:E:1667:LEU:HD23	1:E:1710:GLY:C	2.41	0.46
1:E:3902:TYR:HE1	1:E:3908:GLY:H	1.62	0.46
1:E:4642:ALA:O	1:E:4646:LEU:HG	2.14	0.46
1:G:682:LEU:O	1:G:682:LEU:HG	2.16	0.46
1:G:1106:ARG:HE	1:G:1188:PHE:HE1	1.63	0.46
1:G:1961:PHE:CZ	1:G:2063:LEU:HD22	2.51	0.46
1:G:2290:LEU:HD11	1:G:2349:ASN:OD1	2.16	0.46
1:G:4059:LEU:HA	1:G:4062:PHE:HD2	1.79	0.46
1:G:4725:LEU:O	1:G:4734:ARG:NH2	2.49	0.46
1:A:489:ASN:HB3	1:A:493:ARG:NH2	2.30	0.46
1:A:785:ALA:HA	1:A:1633:PRO:HD3	1.97	0.46
1:A:2553:TYR:CD1	1:A:2556:LEU:HD12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.15	0.46
1:A:4979:THR:O	1:A:4984:ASN:N	2.30	0.46
1:C:249:GLY:O	1:C:252:VAL:HG12	2.15	0.46
1:C:892:THR:N	1:C:902:ARG:HA	2.30	0.46
1:C:1128:ARG:N	1:C:1142:PRO:HB3	2.31	0.46
1:C:1252:HIS:CG	1:C:1253:PRO:HD2	2.50	0.46
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.16	0.46
1:C:3986:TRP:HD1	1:C:4047:MET:SD	2.39	0.46
1:C:3992:PHE:HB2	1:C:4023:MET:CE	2.45	0.46
1:C:4039:MET:CA	1:C:4042:ARG:HH11	2.29	0.46
1:E:21:VAL:CG2	1:E:203:ASN:HB3	2.46	0.46
1:E:1951:LEU:O	1:E:1955:VAL:HG23	2.16	0.46
1:E:2358:ILE:CG2	1:G:195:PHE:HE2	2.29	0.46
1:E:4583:SER:N	1:E:4628:VAL:O	2.42	0.46
1:E:4674:GLU:OE2	1:E:4712:PRO:HA	2.16	0.46
1:E:4913:ARG:O	1:E:4916:PHE:HB3	2.15	0.46
1:G:102:LEU:HB2	1:G:105:HIS:NE2	2.29	0.46
1:G:1729:SER:O	1:G:1733:GLU:HG2	2.15	0.46
1:G:1783:VAL:HG12	2:H:54:GLU:O	2.16	0.46
1:G:2748:PRO:HD2	1:G:2751:LEU:HD12	1.96	0.46
1:G:3934:TYR:HD1	1:G:3999:MET:HG2	1.80	0.46
1:G:4207:MET:HG2	1:G:4208:PRO:CD	2.44	0.46
1:G:5004:THR:O	1:G:5007:GLU:HG2	2.16	0.46
2:H:76:ILE:O	2:H:96:THR:HG23	2.16	0.46
1:A:312:THR:O	1:A:314:PHE:N	2.41	0.46
1:A:1098:GLY:HA3	1:A:1198:GLN:HE21	1.79	0.46
1:A:1779:PRO:HA	1:A:1780:PRO:HD3	1.78	0.46
1:A:1840:PRO:O	1:A:1843:LYS:HB3	2.16	0.46
1:A:2499:LYS:O	1:A:2503:VAL:HG23	2.15	0.46
1:C:4207:MET:HG2	1:C:4208:PRO:CD	2.42	0.46
1:C:4642:ALA:O	1:C:4646:LEU:HG	2.15	0.46
1:C:4888:TYR:OH	1:E:4898:GLY:CA	2.64	0.46
1:C:4980:LEU:HA	1:C:4984:ASN:HA	1.98	0.46
1:E:792:LEU:HB3	1:E:799:GLU:O	2.16	0.46
1:E:1079:LYS:HZ2	1:E:1107:PRO:HB2	1.79	0.46
1:E:1101:ARG:HG3	1:E:1193:SER:OG	2.15	0.46
1:E:2173:GLN:CG	1:E:2174:GLU:H	2.22	0.46
1:E:2499:LYS:O	1:E:2503:VAL:HG23	2.15	0.46
1:G:489:ASN:HB3	1:G:493:ARG:NH2	2.31	0.46
1:G:862:VAL:HA	1:G:930:LYS:NZ	2.31	0.46
1:G:2431:ASP:HB2	1:G:2501:SER:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4712:PRO:O	1:G:4718:LYS:HD2	2.16	0.46
1:G:4887:MET:HA	1:G:4891:VAL:HG23	1.97	0.46
1:G:4914:VAL:O	1:G:4918:ILE:HG13	2.15	0.46
1:A:107:ILE:HD12	1:A:109:LEU:HD21	1.98	0.46
1:A:173:SER:HG	1:A:175:SER:HG	1.63	0.46
1:A:3777:GLU:O	1:A:3781:GLN:HG3	2.16	0.46
1:A:3902:TYR:HE1	1:A:3908:GLY:H	1.62	0.46
1:A:4666:VAL:O	1:A:4670:ILE:HG12	2.15	0.46
2:B:87:HIS:HB3	2:B:91:ILE:H	1.80	0.46
1:C:21:VAL:CG2	1:C:203:ASN:HB3	2.46	0.46
1:C:223:PHE:O	1:C:388:LEU:HD23	2.16	0.46
1:C:251:ALA:O	1:C:254:THR:OG1	2.33	0.46
1:C:1141:ARG:NH1	1:C:1169:LEU:HD11	2.27	0.46
1:E:14:LEU:HD12	1:E:163:VAL:HG12	1.97	0.46
1:E:2771:ILE:HD11	1:E:2857:PRO:HD2	1.96	0.46
1:G:492:ASP:OD1	1:G:546:TRP:NE1	2.42	0.46
1:G:2788:HIS:CG	1:G:2789:PRO:HD2	2.51	0.46
1:G:3891:LEU:HB3	1:G:3899:PHE:CE2	2.50	0.46
1:G:3906:GLN:HG2	1:G:3909:ASN:HB2	1.98	0.46
1:G:3996:PHE:HE2	1:G:4019:LEU:HD22	1.80	0.46
1:A:21:VAL:CG2	1:A:203:ASN:HB3	2.46	0.46
1:A:276:TRP:CD1	1:A:276:TRP:O	2.69	0.46
1:A:1082:THR:HG22	1:A:1189:LEU:HG	1.98	0.46
1:A:2350:ALA:O	1:A:2354:VAL:HG23	2.16	0.46
1:A:4929:LEU:O	1:A:4933:GLN:HG3	2.15	0.46
2:B:88:PRO:O	2:B:90:ILE:HD12	2.16	0.46
1:C:564:LEU:O	1:C:568:LEU:HG	2.16	0.46
1:C:2059:LEU:CD2	1:C:2062:ARG:HH12	2.20	0.46
1:C:2350:ALA:O	1:C:2354:VAL:HG23	2.16	0.46
1:C:2553:TYR:CD1	1:C:2556:LEU:HD12	2.51	0.46
1:E:1748:PHE:HE1	1:E:2072:LEU:C	2.23	0.46
2:F:88:PRO:O	2:F:90:ILE:HD12	2.16	0.46
1:G:223:PHE:O	1:G:388:LEU:HD23	2.16	0.46
1:G:792:LEU:HB3	1:G:799:GLU:O	2.16	0.46
1:G:1101:ARG:HG3	1:G:1193:SER:OG	2.15	0.46
1:G:1432:THR:N	1:G:1519:LEU:O	2.49	0.46
1:G:1638:ALA:HA	1:G:1649:ASP:HA	1.98	0.46
1:G:3937:TYR:O	1:G:3941:ASP:N	2.47	0.46
1:A:451:TYR:CZ	1:A:474:ARG:HD2	2.51	0.46
1:A:649:PHE:HB3	1:A:776:LEU:HB3	1.98	0.46
1:A:1128:ARG:N	1:A:1142:PRO:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1293:LEU:HD23	1:A:1584:ARG:CG	2.45	0.46
1:A:4003:LEU:CB	1:A:4013:LEU:HD12	2.44	0.46
1:A:4717:ASP:O	1:A:4720:VAL:HG23	2.16	0.46
1:A:4888:TYR:OH	1:C:4898:GLY:HA3	2.16	0.46
1:C:690:GLU:CG	1:C:1459:GLN:OE1	2.64	0.46
1:C:2460:LEU:HD12	1:E:178:ARG:CZ	2.45	0.46
1:C:4717:ASP:O	1:C:4720:VAL:HG23	2.16	0.46
1:C:4951:LYS:O	1:C:4955:GLU:HG2	2.16	0.46
1:E:292:ALA:HB3	1:E:302:VAL:HG11	1.98	0.46
1:E:350:HIS:O	1:E:354:GLY:HA2	2.16	0.46
1:E:1093:GLU:HA	1:E:1148:VAL:HG22	1.97	0.46
1:E:2250:MET:HA	1:E:2253:HIS:HD2	1.81	0.46
1:E:2929:PHE:O	1:E:2933:ASN:ND2	2.47	0.46
1:E:3916:ILE:O	1:E:3920:VAL:HG23	2.16	0.46
1:E:3938:SER:OG	1:G:80:GLU:OE1	2.27	0.46
1:E:4951:LYS:O	1:E:4955:GLU:HG2	2.16	0.46
1:G:445:LEU:CD2	1:G:522:LEU:HD12	2.44	0.46
1:G:2211:MET:O	1:G:2215:LEU:HG	2.16	0.46
1:G:3838:THR:C	1:G:3839:CYS:SG	2.99	0.46
1:G:3951:PHE:HE2	1:G:3955:MET:HE3	1.81	0.46
1:A:459:LEU:HD11	1:A:463:GLU:OE1	2.15	0.45
1:A:1638:ALA:HA	1:A:1649:ASP:HA	1.97	0.45
1:A:1748:PHE:HE1	1:A:2072:LEU:C	2.24	0.45
1:A:3724:ALA:O	1:A:3727:ASP:HB2	2.16	0.45
1:A:3977:GLN:HE22	1:A:4033:GLY:H	1.63	0.45
1:A:3986:TRP:HD1	1:A:4047:MET:SD	2.39	0.45
1:A:4712:PRO:O	1:A:4718:LYS:HD2	2.16	0.45
2:B:44:LYS:HA	2:B:45:PRO:HD3	1.86	0.45
1:C:276:TRP:CD1	1:C:276:TRP:O	2.69	0.45
1:C:489:ASN:HB3	1:C:493:ARG:NH2	2.30	0.45
1:C:1294:PRO:CB	1:C:1547:LYS:HB3	2.45	0.45
1:C:1667:LEU:HD23	1:C:1710:GLY:C	2.41	0.45
1:C:1713:ASP:OD1	1:C:1714:LEU:N	2.49	0.45
1:C:2748:PRO:HD2	1:C:2751:LEU:HD12	1.98	0.45
1:C:2883:HIS:HE1	1:C:2904:LEU:O	1.99	0.45
1:C:3836:MET:HE2	1:C:3885:PHE:CE1	2.51	0.45
1:C:4712:PRO:O	1:C:4718:LYS:HD2	2.15	0.45
1:E:249:GLY:O	1:E:252:VAL:HG12	2.15	0.45
1:E:2553:TYR:CD1	1:E:2556:LEU:HD12	2.51	0.45
1:E:2819:TRP:HH2	1:E:2881:ASN:HB2	1.81	0.45
1:E:4222:VAL:HG11	1:E:4950:VAL:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4578:LEU:CD1	1:G:4880:MET:CA	2.85	0.45
1:E:4648:LEU:O	1:E:4652:LEU:N	2.47	0.45
1:E:4810:ALA:O	1:E:4813:LEU:HG	2.16	0.45
1:G:14:LEU:HD12	1:G:163:VAL:HG12	1.98	0.45
1:G:1598:GLN:O	1:G:1600:LEU:N	2.49	0.45
1:G:2499:LYS:O	1:G:2503:VAL:HG23	2.15	0.45
1:G:4821:LYS:HD3	1:G:4947:GLN:NE2	2.31	0.45
1:G:4832:HIS:NE2	1:G:4939:ALA:HB1	2.31	0.45
2:H:88:PRO:O	2:H:90:ILE:HD12	2.16	0.45
1:A:2431:ASP:HB2	1:A:2501:SER:CB	2.46	0.45
1:A:2883:HIS:HE1	1:A:2904:LEU:O	1.99	0.45
1:A:4839:MET:HE3	1:G:4826:ILE:CD1	2.45	0.45
1:C:649:PHE:HB3	1:C:776:LEU:HB3	1.98	0.45
1:C:2290:LEU:HD11	1:C:2349:ASN:OD1	2.16	0.45
1:C:2771:ILE:HD11	1:C:2857:PRO:HD2	1.97	0.45
1:C:4581:LYS:HD2	1:E:4856:PHE:CZ	2.50	0.45
1:E:1224:GLU:HA	1:E:1225:PRO:HD3	1.64	0.45
1:E:2431:ASP:HB2	1:E:2501:SER:CB	2.46	0.45
2:F:42:ARG:C	2:F:44:LYS:H	2.24	0.45
1:G:16:THR:OG1	1:G:99:ARG:O	2.20	0.45
1:G:21:VAL:CG2	1:G:203:ASN:HB3	2.46	0.45
1:G:833:GLY:HA3	1:G:838:HIS:CD2	2.52	0.45
1:G:1660:GLN:NE2	1:G:1704:PRO:HB2	2.31	0.45
1:G:2350:ALA:O	1:G:2354:VAL:HG23	2.16	0.45
1:G:3371:LYS:O	1:G:3375:GLU:N	2.44	0.45
1:G:3936:TYR:HD2	1:G:3937:TYR:CE2	2.34	0.45
1:G:4209:GLN:HG3	1:G:4213:SER:HB2	1.99	0.45
1:G:4727:LYS:NZ	1:G:4728:HIS:CE1	2.84	0.45
1:A:750:LEU:O	1:A:751:SER:OG	2.33	0.45
1:A:792:LEU:HB3	1:A:799:GLU:O	2.16	0.45
1:A:1713:ASP:OD1	1:A:1714:LEU:N	2.49	0.45
1:A:2290:LEU:HD11	1:A:2349:ASN:OD1	2.16	0.45
1:A:3698:LEU:O	1:A:3701:LEU:HB3	2.17	0.45
1:A:3836:MET:HE2	1:A:3885:PHE:CE1	2.50	0.45
1:A:3916:ILE:O	1:A:3920:VAL:HG23	2.17	0.45
1:A:4234:PHE:HZ	1:A:4988:TYR:HB2	1.81	0.45
1:C:1090:PHE:CE1	1:C:1151:CYS:HB3	2.51	0.45
1:C:1438:ARG:HA	1:C:1514:LEU:HA	1.98	0.45
1:C:2117:VAL:O	1:C:2120:MET:HB2	2.16	0.45
1:C:3724:ALA:O	1:C:3727:ASP:HB2	2.17	0.45
1:C:4024:VAL:HA	1:C:4027:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4578:LEU:CD1	1:E:4880:MET:CA	2.83	0.45
1:C:4674:GLU:OE2	1:C:4712:PRO:HA	2.16	0.45
1:E:451:TYR:CZ	1:E:474:ARG:HD2	2.51	0.45
1:E:1840:PRO:O	1:E:1843:LYS:HB3	2.16	0.45
1:E:2883:HIS:HE1	1:E:2904:LEU:O	1.99	0.45
1:E:3775:ALA:O	1:E:3779:VAL:HG23	2.15	0.45
1:E:3977:GLN:HE22	1:E:4033:GLY:H	1.64	0.45
1:G:451:TYR:CZ	1:G:474:ARG:HD2	2.52	0.45
1:G:459:LEU:HD11	1:G:463:GLU:OE1	2.15	0.45
1:G:1093:GLU:HA	1:G:1148:VAL:HG22	1.98	0.45
1:G:2420:HIS:ND1	1:G:2423:MET:SD	2.76	0.45
1:G:3434:LEU:O	1:G:3437:MET:N	2.49	0.45
1:G:3655:GLU:O	1:G:3658:LYS:HB3	2.15	0.45
1:A:119:SER:OG	1:A:136:GLY:O	2.25	0.45
1:A:223:PHE:O	1:A:388:LEU:HD23	2.16	0.45
1:A:1106:ARG:HE	1:A:1188:PHE:HE1	1.63	0.45
1:A:2248:ARG:HA	1:A:2286:LEU:HD22	1.99	0.45
1:C:478:PHE:CD1	1:C:529:LEU:HD21	2.51	0.45
1:C:785:ALA:HA	1:C:1633:PRO:HD3	1.97	0.45
1:C:2745:VAL:HB	1:C:2814:LYS:HB3	1.98	0.45
1:E:478:PHE:CD1	1:E:529:LEU:HD21	2.52	0.45
1:E:558:SER:O	1:E:561:LEU:HB3	2.16	0.45
1:E:2745:VAL:HB	1:E:2814:LYS:HB3	1.98	0.45
1:E:3698:LEU:O	1:E:3701:LEU:HB3	2.17	0.45
1:E:4563:ARG:NH1	1:E:4815:ASP:OD1	2.47	0.45
2:F:58:GLY:HA3	2:F:76:ILE:CG2	2.46	0.45
1:G:720:HIS:HB2	1:G:728:ARG:O	2.16	0.45
1:G:1154:ASP:HB3	1:G:1157:GLU:HB3	1.97	0.45
1:G:1729:SER:HB2	1:G:2163:ARG:HH11	1.81	0.45
1:G:4213:SER:O	1:G:4217:PHE:N	2.42	0.45
1:G:4886:HIS:O	1:G:4891:VAL:N	2.45	0.45
1:A:833:GLY:HA3	1:A:838:HIS:CD2	2.52	0.45
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.16	0.45
1:A:4980:LEU:HA	1:A:4984:ASN:HA	1.98	0.45
1:C:451:TYR:CZ	1:C:474:ARG:HD2	2.52	0.45
1:C:634:GLN:HG3	1:C:1640:HIS:CE1	2.50	0.45
1:C:737:LEU:HB3	1:C:738:LEU:H	1.56	0.45
1:C:1834:VAL:HG13	1:C:1835:GLU:N	2.32	0.45
1:C:3938:SER:OG	1:E:80:GLU:OE1	2.30	0.45
2:D:42:ARG:C	2:D:44:LYS:H	2.24	0.45
1:E:173:SER:HG	1:E:175:SER:HG	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:943:ASP:HB3	1:E:1050:GLY:HA3	1.97	0.45
1:E:1240:LYS:HZ3	1:E:1242:LEU:HB2	1.80	0.45
1:E:1648:MET:SD	1:E:1656:ARG:NH2	2.89	0.45
1:E:2117:VAL:O	1:E:2120:MET:HB2	2.17	0.45
1:E:3724:ALA:O	1:E:3727:ASP:HB2	2.16	0.45
1:E:4823:LEU:HA	1:E:4826:ILE:CD1	2.44	0.45
1:E:4929:LEU:O	1:E:4933:GLN:HG3	2.17	0.45
1:G:478:PHE:CD1	1:G:529:LEU:HD21	2.52	0.45
1:G:593:HIS:HB3	1:G:596:ASN:HD22	1.79	0.45
1:G:1079:LYS:HZ2	1:G:1107:PRO:HB2	1.81	0.45
1:G:1840:PRO:O	1:G:1843:LYS:HB3	2.16	0.45
1:G:2059:LEU:CD2	1:G:2062:ARG:HH12	2.20	0.45
1:G:2250:MET:HA	1:G:2253:HIS:HD2	1.81	0.45
1:A:372:LEU:O	1:A:374:LYS:N	2.50	0.45
1:A:564:LEU:O	1:A:568:LEU:HG	2.16	0.45
1:A:1660:GLN:NE2	1:A:1704:PRO:HB2	2.31	0.45
1:A:2142:TYR:HE1	1:A:2196:ASN:HD22	1.64	0.45
1:A:4024:VAL:HA	1:A:4027:LEU:HD12	1.97	0.45
1:A:4578:LEU:HG	1:C:4880:MET:HB2	1.99	0.45
1:A:4579:PHE:HB3	1:A:4632:LEU:O	2.17	0.45
1:C:274:LEU:HA	1:C:278:GLN:NE2	2.32	0.45
1:C:445:LEU:CD2	1:C:522:LEU:HD12	2.44	0.45
1:C:839:LEU:HD22	1:C:1075:PHE:CE1	2.52	0.45
1:C:1082:THR:HG22	1:C:1189:LEU:HG	1.98	0.45
1:C:1093:GLU:HA	1:C:1148:VAL:HG22	1.98	0.45
1:C:1598:GLN:O	1:C:1600:LEU:N	2.49	0.45
1:C:2271:THR:HA	1:C:2272:PRO:HD2	1.85	0.45
1:C:3969:ILE:CG1	1:C:3980:LEU:HD11	2.46	0.45
1:C:4579:PHE:HB3	1:C:4632:LEU:O	2.17	0.45
1:C:4826:ILE:O	1:C:4829:SER:HB2	2.16	0.45
1:C:4915:VAL:HA	1:C:4918:ILE:HD12	1.97	0.45
2:D:67:SER:N	2:D:70:GLN:OE1	2.37	0.45
1:E:24:CYS:HB3	1:E:200:TRP:CE3	2.52	0.45
1:E:149:THR:HG23	1:E:174:VAL:HG22	1.98	0.45
1:E:274:LEU:HA	1:E:278:GLN:NE2	2.32	0.45
1:E:649:PHE:HB3	1:E:776:LEU:HB3	1.98	0.45
1:E:833:GLY:HA3	1:E:838:HIS:CD2	2.52	0.45
1:E:839:LEU:HD22	1:E:1075:PHE:CE1	2.52	0.45
1:E:2460:LEU:HD12	1:G:178:ARG:CZ	2.46	0.45
1:E:3777:GLU:O	1:E:3781:GLN:HG3	2.16	0.45
1:E:4702:ASP:OD1	1:E:4778:TRP:NE1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4712:PRO:O	1:E:4718:LYS:HD2	2.16	0.45
1:G:1667:LEU:HD23	1:G:1710:GLY:C	2.41	0.45
1:G:1713:ASP:OD1	1:G:1714:LEU:N	2.49	0.45
1:G:4000:MET:O	1:G:4004:ALA:N	2.49	0.45
1:G:4735:GLU:O	1:G:4739:GLU:N	2.48	0.45
1:A:24:CYS:HB3	1:A:200:TRP:CE3	2.52	0.45
1:A:758:ARG:HA	1:A:763:PRO:HA	1.97	0.45
1:A:1090:PHE:CE1	1:A:1151:CYS:HB3	2.52	0.45
1:A:1292:SER:O	1:A:1294:PRO:HD3	2.17	0.45
1:A:1294:PRO:CD	1:A:1584:ARG:HH11	2.19	0.45
1:A:2272:PRO:O	1:A:2275:VAL:HB	2.17	0.45
1:A:4214:LYS:HE2	1:A:4985:LEU:HD23	1.98	0.45
1:C:116:MET:HE2	1:C:139:GLU:OE2	2.17	0.45
1:C:312:THR:O	1:C:314:PHE:N	2.41	0.45
1:C:533:ASN:OD1	1:C:535:ALA:N	2.41	0.45
1:C:599:VAL:O	1:C:602:VAL:HB	2.17	0.45
1:C:675:LEU:O	1:C:676:THR:OG1	2.27	0.45
1:C:1748:PHE:HE1	1:C:2072:LEU:C	2.24	0.45
1:C:1805:GLU:O	1:C:1808:ARG:HG2	2.17	0.45
1:C:1840:PRO:O	1:C:1843:LYS:HB3	2.16	0.45
1:C:2114:PRO:O	1:C:3704:HIS:NE2	2.40	0.45
1:C:2208:MET:HE1	1:C:2253:HIS:CG	2.52	0.45
1:C:2431:ASP:HB2	1:C:2501:SER:CB	2.46	0.45
1:C:2556:LEU:HD23	1:C:2559:LEU:CD1	2.47	0.45
1:C:3698:LEU:O	1:C:3701:LEU:HB3	2.17	0.45
1:C:3777:GLU:O	1:C:3781:GLN:HG3	2.16	0.45
1:C:3916:ILE:O	1:C:3920:VAL:HG23	2.17	0.45
1:C:3996:PHE:O	1:C:4000:MET:HG2	2.17	0.45
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.99	0.45
1:C:4234:PHE:HZ	1:C:4988:TYR:HB2	1.82	0.45
1:E:111:HIS:NE2	1:E:113:HIS:HB3	2.32	0.45
1:E:1805:GLU:O	1:E:1808:ARG:HG2	2.17	0.45
1:E:4924:VAL:HA	1:E:4928:LEU:HD12	1.99	0.45
1:G:350:HIS:O	1:G:354:GLY:HA2	2.17	0.45
1:G:533:ASN:OD1	1:G:535:ALA:N	2.41	0.45
1:G:558:SER:O	1:G:561:LEU:HB3	2.17	0.45
1:G:2756:ASN:OD1	1:G:2806:ARG:NH2	2.49	0.45
1:G:4039:MET:HG3	1:G:4040:ILE:H	1.81	0.45
1:G:4108:ILE:O	1:G:4111:LEU:HB3	2.16	0.45
1:G:4733:GLY:O	1:G:4737:ILE:HG12	2.17	0.45
1:A:111:HIS:NE2	1:A:113:HIS:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:116:MET:HE2	1:A:139:GLU:OE2	2.17	0.45
1:A:2244:ARG:NH1	1:A:2285:GLU:OE1	2.50	0.45
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.99	0.45
1:A:4574:ASN:ND2	1:A:4813:LEU:HD23	2.31	0.45
1:C:24:CYS:HB3	1:C:200:TRP:CE3	2.52	0.45
1:C:111:HIS:NE2	1:C:113:HIS:HB3	2.32	0.45
1:C:438:ILE:HG23	1:C:518:ILE:HD11	1.98	0.45
1:C:558:SER:O	1:C:561:LEU:HB3	2.16	0.45
1:C:768:PHE:HB3	1:C:771:PHE:HE2	1.82	0.45
1:C:941:MET:HA	1:C:1051:TYR:HD1	1.82	0.45
1:C:2819:TRP:HH2	1:C:2881:ASN:HB2	1.81	0.45
1:C:4143:VAL:O	1:C:4147:LEU:HG	2.17	0.45
1:C:4648:LEU:O	1:C:4652:LEU:N	2.47	0.45
1:E:564:LEU:O	1:E:568:LEU:HG	2.16	0.45
1:E:662:TRP:CZ3	1:E:814:ALA:HB2	2.52	0.45
1:E:1128:ARG:N	1:E:1142:PRO:HB3	2.31	0.45
1:E:1713:ASP:OD1	1:E:1714:LEU:N	2.50	0.45
1:E:3992:PHE:HB2	1:E:4023:MET:CE	2.45	0.45
1:E:4666:VAL:O	1:E:4670:ILE:HG12	2.16	0.45
1:E:4915:VAL:HA	1:E:4918:ILE:HD12	1.98	0.45
1:G:1848:LEU:O	1:G:1851:MET:HG2	2.17	0.45
1:G:2232:CYS:O	1:G:2235:PHE:HB3	2.17	0.45
1:G:4786:ASP:OD2	1:G:4788:SER:HB3	2.16	0.45
1:G:4946:GLN:O	1:G:4950:VAL:HG23	2.17	0.45
1:A:102:LEU:HB2	1:A:105:HIS:NE2	2.31	0.45
1:A:1130:GLN:HB2	1:A:1138:PRO:HA	1.99	0.45
1:A:1951:LEU:O	1:A:1955:VAL:HG23	2.16	0.45
1:A:2232:CYS:O	1:A:2235:PHE:HB3	2.17	0.45
1:A:3992:PHE:HB2	1:A:4023:MET:CE	2.45	0.45
1:A:4648:LEU:O	1:A:4652:LEU:N	2.47	0.45
1:A:4802:GLY:HA2	1:A:4809:PHE:HB2	1.99	0.45
1:C:887:ILE:CG2	1:C:962:SER:HB2	2.47	0.45
1:C:2173:GLN:HG2	1:C:2174:GLU:N	2.19	0.45
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.16	0.45
1:C:4666:VAL:O	1:C:4670:ILE:HG12	2.16	0.45
2:D:58:GLY:HA3	2:D:76:ILE:CG2	2.47	0.45
1:E:223:PHE:O	1:E:388:LEU:HD23	2.16	0.45
1:E:234:SER:O	1:E:242:ARG:HG2	2.17	0.45
1:E:445:LEU:CD2	1:E:522:LEU:HD12	2.44	0.45
1:E:2296:GLU:HA	1:E:2299:VAL:HG22	1.99	0.45
1:E:2350:ALA:O	1:E:2354:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4579:PHE:HB3	1:E:4632:LEU:O	2.16	0.45
1:G:107:ILE:HD12	1:G:109:LEU:HD21	1.99	0.45
1:G:111:HIS:NE2	1:G:113:HIS:HB3	2.32	0.45
1:G:290:TYR:HB2	1:G:307:ALA:CB	2.47	0.45
1:G:438:ILE:HG23	1:G:518:ILE:HD11	1.98	0.45
1:G:716:PHE:N	1:G:738:LEU:HD13	2.31	0.45
1:G:1205:GLY:HA3	1:G:1227:ALA:CB	2.43	0.45
1:G:1234:VAL:HG12	1:G:1235:THR:O	2.17	0.45
1:G:1805:GLU:O	1:G:1808:ARG:HG2	2.17	0.45
1:G:2752:ASP:HA	1:G:2755:ILE:HD12	1.99	0.45
1:G:3997:ALA:HB1	1:G:4057:MET:HB2	1.99	0.45
1:A:16:THR:OG1	1:A:99:ARG:O	2.18	0.45
1:A:1234:VAL:HG12	1:A:1235:THR:O	2.17	0.45
1:A:1735:ILE:HD11	1:A:2156:LEU:HD11	1.99	0.45
1:A:3936:TYR:HD2	1:A:3937:TYR:CD2	2.35	0.45
1:A:4181:ILE:HD11	1:A:4193:ILE:HD11	1.99	0.45
2:B:58:GLY:HA3	2:B:76:ILE:CG2	2.47	0.45
1:C:234:SER:O	1:C:242:ARG:HG2	2.17	0.45
1:C:275:ARG:HA	1:C:338:GLU:OE1	2.17	0.45
1:C:290:TYR:HB2	1:C:307:ALA:CB	2.47	0.45
1:C:788:LYS:HD3	1:C:1629:GLN:OE1	2.17	0.45
1:C:1660:GLN:NE2	1:C:1704:PRO:HB2	2.32	0.45
1:C:3977:GLN:HE22	1:C:4033:GLY:H	1.63	0.45
1:C:4921:PHE:HA	1:C:4925:ILE:CG1	2.47	0.45
1:E:116:MET:HE2	1:E:139:GLU:OE2	2.17	0.45
1:E:275:ARG:HA	1:E:338:GLU:OE1	2.17	0.45
1:E:276:TRP:CD1	1:E:276:TRP:O	2.69	0.45
1:E:768:PHE:HB3	1:E:771:PHE:HE2	1.82	0.45
1:E:856:VAL:O	1:E:991:ASN:ND2	2.48	0.45
1:E:1074:ILE:HB	1:E:1239:SER:OG	2.17	0.45
1:E:1158:ASN:ND2	1:E:1182:ILE:O	2.50	0.45
1:E:1638:ALA:HA	1:E:1649:ASP:HA	1.98	0.45
1:E:1735:ILE:HD11	1:E:2156:LEU:HD11	1.98	0.45
1:E:2748:PRO:HD2	1:E:2751:LEU:HD12	1.98	0.45
1:E:3936:TYR:HD2	1:E:3937:TYR:CD2	2.35	0.45
1:E:4717:ASP:O	1:E:4720:VAL:HG23	2.17	0.45
1:E:4980:LEU:HA	1:E:4984:ASN:HA	1.98	0.45
1:G:24:CYS:HB3	1:G:200:TRP:CE3	2.52	0.45
1:G:119:SER:O	1:G:136:GLY:N	2.31	0.45
1:G:941:MET:HA	1:G:1051:TYR:HD1	1.82	0.45
1:G:1943:LEU:HD11	1:G:2098:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4648:LEU:O	1:G:4652:LEU:N	2.46	0.45
1:G:4851:TYR:HB3	1:G:4916:PHE:CZ	2.52	0.45
1:A:478:PHE:CD1	1:A:529:LEU:HD21	2.52	0.44
1:A:714:TYR:HB2	1:A:757:PHE:CD2	2.52	0.44
1:A:788:LYS:HD3	1:A:1629:GLN:OE1	2.17	0.44
1:A:839:LEU:HD22	1:A:1075:PHE:CE1	2.52	0.44
1:A:1598:GLN:O	1:A:1600:LEU:N	2.49	0.44
1:A:1667:LEU:HD23	1:A:1710:GLY:C	2.42	0.44
1:A:1805:GLU:O	1:A:1808:ARG:HG2	2.17	0.44
1:A:2117:VAL:O	1:A:2120:MET:HB2	2.17	0.44
1:A:2250:MET:HA	1:A:2253:HIS:HD2	1.81	0.44
1:A:2756:ASN:OD1	1:A:2806:ARG:NH2	2.51	0.44
1:A:4143:VAL:O	1:A:4147:LEU:HG	2.17	0.44
1:A:4881:THR:HA	1:A:4884:LEU:HG	1.99	0.44
1:A:4892:ARG:HH22	1:C:4920:PHE:HD2	1.63	0.44
1:A:4991:PHE:O	1:A:4995:LEU:HG	2.17	0.44
1:C:73:LEU:O	1:C:105:HIS:HB3	2.17	0.44
1:C:350:HIS:O	1:C:354:GLY:HA2	2.17	0.44
1:C:530:ILE:HG12	1:C:540:PHE:HE2	1.82	0.44
1:C:662:TRP:CZ3	1:C:814:ALA:HB2	2.52	0.44
1:C:748:LEU:HD21	1:C:777:PHE:HD2	1.82	0.44
1:C:1074:ILE:HB	1:C:1239:SER:OG	2.18	0.44
1:C:1087:ARG:HH11	1:C:1223:PHE:HE1	1.65	0.44
1:C:2248:ARG:HA	1:C:2286:LEU:HD22	1.98	0.44
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.52	0.44
1:C:4578:LEU:HD12	1:E:4879:MET:C	2.41	0.44
1:C:4581:LYS:HE2	1:E:4877:ASP:O	2.17	0.44
1:C:4821:LYS:HD3	1:C:4947:GLN:HE22	1.80	0.44
1:C:4997:ASN:OD1	1:C:4998:LYS:N	2.50	0.44
2:D:11:ASP:OD1	2:D:67:SER:HB2	2.18	0.44
2:D:22:CYS:O	2:D:47:LYS:HA	2.17	0.44
1:E:107:ILE:HD12	1:E:109:LEU:HD21	1.99	0.44
1:E:748:LEU:HD13	1:E:755:ILE:CG1	2.47	0.44
1:E:1090:PHE:CE1	1:E:1151:CYS:HB3	2.51	0.44
1:E:4039:MET:HG3	1:E:4040:ILE:N	2.32	0.44
1:E:4578:LEU:HD12	1:G:4879:MET:C	2.43	0.44
2:F:74:LEU:O	2:F:98:VAL:HA	2.17	0.44
1:G:116:MET:HE2	1:G:139:GLU:OE2	2.17	0.44
1:G:839:LEU:HD22	1:G:1075:PHE:CE1	2.52	0.44
1:G:1128:ARG:N	1:G:1142:PRO:HB3	2.31	0.44
1:G:1143:TRP:HE3	1:G:1144:GLN:O	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:11:ASP:OD1	2:H:67:SER:HB2	2.17	0.44
2:H:74:LEU:HD23	2:H:76:ILE:HD11	1.99	0.44
1:A:103:TYR:CE2	1:A:157:ARG:HB3	2.52	0.44
1:A:599:VAL:O	1:A:602:VAL:HB	2.17	0.44
1:A:941:MET:HA	1:A:1051:TYR:HD1	1.83	0.44
1:A:1141:ARG:NH1	1:A:1169:LEU:HD11	2.26	0.44
1:A:2059:LEU:CD2	1:A:2062:ARG:HH12	2.20	0.44
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.52	0.44
1:A:3906:GLN:HG2	1:A:3909:ASN:HB2	2.00	0.44
1:A:4689:THR:HG1	1:A:4690:GLU:CD	2.22	0.44
1:A:4892:ARG:HH12	1:C:4898:GLY:H	1.64	0.44
1:C:292:ALA:HB3	1:C:302:VAL:HG11	1.99	0.44
1:C:2116:LEU:O	1:C:2120:MET:HG3	2.17	0.44
1:C:2250:MET:HA	1:C:2253:HIS:HD2	1.81	0.44
1:C:3835:LEU:HD22	1:C:3884:LEU:HD11	2.00	0.44
1:C:4991:PHE:O	1:C:4995:LEU:HG	2.17	0.44
1:E:233:ILE:O	1:E:257:ARG:HD2	2.17	0.44
1:E:2244:ARG:NH1	1:E:2285:GLU:OE1	2.50	0.44
1:E:2248:ARG:HA	1:E:2286:LEU:HD22	1.98	0.44
1:E:3811:GLU:O	1:E:3814:GLN:HG3	2.18	0.44
1:E:4056:GLU:O	1:E:4060:LYS:HG2	2.18	0.44
2:F:22:CYS:O	2:F:47:LYS:HA	2.18	0.44
1:G:276:TRP:CD1	1:G:276:TRP:O	2.70	0.44
1:G:639:ASN:ND2	1:G:676:THR:OG1	2.46	0.44
1:G:1158:ASN:ND2	1:G:1182:ILE:O	2.50	0.44
1:G:4686:LEU:HD13	1:G:4692:PRO:HD3	2.00	0.44
1:A:35:LEU:HD12	1:A:35:LEU:O	2.17	0.44
1:A:161:GLU:OE1	1:G:3984:ARG:NH1	2.51	0.44
1:A:274:LEU:HA	1:A:278:GLN:NE2	2.32	0.44
1:A:561:LEU:CD2	1:A:598:LYS:HB3	2.48	0.44
1:A:887:ILE:CG2	1:A:962:SER:HB2	2.47	0.44
1:A:1729:SER:HB2	1:A:2163:ARG:HH11	1.81	0.44
1:A:3996:PHE:O	1:A:4000:MET:HG2	2.17	0.44
1:A:4645:CYS:O	1:A:4649:LEU:N	2.45	0.44
1:A:4887:MET:HA	1:A:4891:VAL:HG23	1.99	0.44
1:A:4924:VAL:HA	1:A:4928:LEU:HD12	1.99	0.44
1:C:35:LEU:HD12	1:C:35:LEU:O	2.18	0.44
1:C:107:ILE:HD12	1:C:109:LEU:HD21	1.99	0.44
1:C:561:LEU:CD2	1:C:598:LYS:HB3	2.48	0.44
1:C:1943:LEU:HD11	1:C:2098:VAL:HG22	1.99	0.44
1:C:1951:LEU:O	1:C:1955:VAL:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2244:ARG:NH1	1:C:2285:GLU:OE1	2.50	0.44
1:C:3811:GLU:O	1:C:3814:GLN:HG3	2.18	0.44
1:E:290:TYR:HB2	1:E:307:ALA:CB	2.48	0.44
1:E:2208:MET:HE1	1:E:2253:HIS:CG	2.52	0.44
1:E:2271:THR:HA	1:E:2272:PRO:HD2	1.85	0.44
1:E:2272:PRO:O	1:E:2275:VAL:HB	2.17	0.44
1:E:2420:HIS:ND1	1:E:2423:MET:SD	2.76	0.44
1:E:2556:LEU:HD23	1:E:2559:LEU:CD1	2.48	0.44
1:E:2756:ASN:OD1	1:E:2806:ARG:NH2	2.51	0.44
1:E:3996:PHE:O	1:E:4000:MET:HG2	2.17	0.44
1:G:121:LEU:O	1:G:133:PHE:HB3	2.18	0.44
1:G:173:SER:HG	1:G:175:SER:HG	1.64	0.44
1:G:203:ASN:OD1	1:G:204:PRO:HD2	2.18	0.44
1:G:674:PHE:HD1	2:H:40:ARG:NH1	2.09	0.44
1:G:1090:PHE:CE1	1:G:1151:CYS:HB3	2.51	0.44
1:G:1294:PRO:CD	1:G:1584:ARG:HH11	2.19	0.44
1:G:2558:VAL:O	1:G:2561:LEU:HG	2.16	0.44
1:G:2825:LYS:HA	1:G:2935:TYR:CD1	2.52	0.44
1:G:4041:ALA:O	1:G:4044:MET:HB3	2.18	0.44
1:G:4251:ILE:HG22	1:G:4557:ARG:NH1	2.32	0.44
1:G:4674:GLU:CD	1:G:4714:ASN:H	2.26	0.44
1:A:558:SER:O	1:A:561:LEU:HB3	2.17	0.44
1:A:593:HIS:HA	1:A:1597:VAL:HB	1.99	0.44
1:A:1848:LEU:O	1:A:1851:MET:HG2	2.18	0.44
1:A:4856:PHE:CZ	1:G:4581:LYS:HD2	2.47	0.44
1:C:233:ILE:O	1:C:257:ARG:HD2	2.17	0.44
1:C:1439:VAL:O	1:C:1513:ASP:N	2.49	0.44
1:C:4842:GLY:O	1:C:4846:VAL:HG23	2.18	0.44
1:C:4881:THR:HA	1:C:4884:LEU:HG	2.00	0.44
1:E:533:ASN:OD1	1:E:535:ALA:N	2.42	0.44
1:E:599:VAL:O	1:E:602:VAL:HB	2.17	0.44
1:E:685:GLY:O	1:E:780:VAL:HB	2.17	0.44
1:E:1848:LEU:O	1:E:1851:MET:HG2	2.18	0.44
1:E:3940:LYS:NZ	1:E:3944:GLU:OE2	2.46	0.44
1:E:3980:LEU:HA	1:E:3983:SER:OG	2.17	0.44
1:E:3989:VAL:CB	1:E:4047:MET:HE1	2.44	0.44
1:E:4881:THR:HA	1:E:4884:LEU:HG	1.98	0.44
1:G:274:LEU:HA	1:G:278:GLN:NE2	2.32	0.44
1:G:292:ALA:HB3	1:G:302:VAL:HG11	1.99	0.44
1:G:564:LEU:O	1:G:568:LEU:HG	2.16	0.44
1:G:599:VAL:O	1:G:602:VAL:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1834:VAL:HG13	1:G:1835:GLU:N	2.32	0.44
1:G:2500:ALA:HA	1:G:2556:LEU:HD21	1.99	0.44
1:G:4806:ASN:C	1:G:4809:PHE:HB3	2.42	0.44
1:A:530:ILE:HG12	1:A:540:PHE:HE2	1.83	0.44
1:A:931:THR:O	1:A:935:LEU:N	2.44	0.44
1:A:2208:MET:HE1	1:A:2253:HIS:CG	2.52	0.44
1:A:4888:TYR:OH	1:C:4898:GLY:CA	2.65	0.44
2:B:11:ASP:OD1	2:B:67:SER:HB2	2.18	0.44
1:C:714:TYR:HB2	1:C:757:PHE:CD2	2.53	0.44
1:C:1930:LYS:HG2	1:C:1931:LEU:N	2.33	0.44
1:C:2191:PHE:CD1	1:C:2198:MET:HE2	2.51	0.44
1:C:2272:PRO:O	1:C:2275:VAL:HB	2.18	0.44
1:C:3839:CYS:SG	1:C:3922:TYR:CE1	3.11	0.44
1:C:3936:TYR:HD2	1:C:3937:TYR:CD2	2.35	0.44
1:C:4851:TYR:HB3	1:C:4916:PHE:CZ	2.53	0.44
1:E:73:LEU:O	1:E:105:HIS:HB3	2.17	0.44
1:E:788:LYS:HD3	1:E:1629:GLN:OE1	2.17	0.44
1:E:4844:LEU:HD11	1:E:4891:VAL:HG13	1.99	0.44
1:E:4931:ILE:O	1:E:4935:LEU:HB2	2.18	0.44
2:F:7:ILE:HD12	2:F:71:ARG:HG2	2.00	0.44
1:G:35:LEU:HD12	1:G:35:LEU:O	2.18	0.44
1:G:685:GLY:O	1:G:780:VAL:HB	2.18	0.44
1:G:4218:ILE:HG22	1:G:4950:VAL:HG13	2.00	0.44
1:A:275:ARG:HA	1:A:338:GLU:OE1	2.17	0.44
1:A:662:TRP:CZ3	1:A:814:ALA:HB2	2.52	0.44
1:A:685:GLY:O	1:A:780:VAL:HB	2.17	0.44
1:A:892:THR:N	1:A:902:ARG:HA	2.30	0.44
1:A:1158:ASN:ND2	1:A:1182:ILE:O	2.50	0.44
1:A:3811:GLU:O	1:A:3814:GLN:HG3	2.18	0.44
1:A:3969:ILE:CG1	1:A:3980:LEU:HD11	2.46	0.44
1:C:2929:PHE:O	1:C:2933:ASN:ND2	2.47	0.44
1:C:4056:GLU:O	1:C:4060:LYS:HG2	2.17	0.44
1:C:4181:ILE:HD11	1:C:4193:ILE:HD11	2.00	0.44
2:D:7:ILE:HD12	2:D:71:ARG:HG2	2.00	0.44
1:E:635:THR:OG1	1:E:1638:ALA:O	2.31	0.44
1:E:1598:GLN:O	1:E:1600:LEU:N	2.49	0.44
1:G:234:SER:O	1:G:242:ARG:HG2	2.16	0.44
1:G:372:LEU:O	1:G:374:LYS:N	2.51	0.44
1:G:892:THR:N	1:G:902:ARG:HA	2.30	0.44
1:G:1292:SER:O	1:G:1294:PRO:HD3	2.18	0.44
1:G:4816:ILE:HG13	1:G:4823:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4921:PHE:HA	1:G:4925:ILE:HG12	2.00	0.44
1:A:235:ALA:HB2	1:A:257:ARG:HD3	1.99	0.44
1:A:314:PHE:HB3	1:A:348:VAL:CG1	2.48	0.44
1:A:2296:GLU:HA	1:A:2299:VAL:HG22	1.99	0.44
1:A:2819:TRP:HH2	1:A:2881:ASN:HB2	1.82	0.44
1:A:4056:GLU:O	1:A:4060:LYS:HG2	2.17	0.44
1:A:4582:VAL:HB	1:A:4628:VAL:HG12	2.00	0.44
1:C:758:ARG:HA	1:C:763:PRO:HA	1.99	0.44
1:C:1158:ASN:ND2	1:C:1182:ILE:O	2.50	0.44
1:C:1201:HIS:CD2	1:C:1202:LEU:H	2.35	0.44
1:C:1638:ALA:HA	1:C:1649:ASP:HA	1.99	0.44
1:C:1848:LEU:O	1:C:1851:MET:HG2	2.18	0.44
1:C:2142:TYR:HE1	1:C:2196:ASN:HD22	1.65	0.44
1:C:2431:ASP:HB2	1:C:2501:SER:HA	2.00	0.44
1:E:35:LEU:HD12	1:E:35:LEU:O	2.18	0.44
1:E:438:ILE:HG23	1:E:518:ILE:HD11	1.98	0.44
1:E:941:MET:HA	1:E:1051:TYR:HD1	1.83	0.44
1:E:1292:SER:O	1:E:1294:PRO:HD3	2.18	0.44
1:E:1660:GLN:NE2	1:E:1704:PRO:HB2	2.32	0.44
1:E:2232:CYS:O	1:E:2235:PHE:HB3	2.17	0.44
1:E:2788:HIS:CG	1:E:2789:PRO:HD2	2.53	0.44
1:E:4234:PHE:HZ	1:E:4988:TYR:HB2	1.82	0.44
1:E:4910:GLU:HA	1:E:4913:ARG:HG2	1.99	0.44
1:G:275:ARG:HA	1:G:338:GLU:OE1	2.18	0.44
1:G:593:HIS:HA	1:G:1597:VAL:HB	1.99	0.44
1:G:887:ILE:CG2	1:G:962:SER:HB2	2.47	0.44
1:G:2248:ARG:HA	1:G:2286:LEU:HD22	1.99	0.44
1:G:2902:HIS:H	1:G:2905:LEU:HD12	1.83	0.44
1:A:104:GLY:HA2	1:A:150:MET:O	2.18	0.44
1:A:119:SER:HB2	1:A:145:ALA:HB1	2.00	0.44
1:A:121:LEU:O	1:A:133:PHE:HB3	2.18	0.44
1:A:233:ILE:O	1:A:257:ARG:HD2	2.17	0.44
1:A:1143:TRP:HE3	1:A:1144:GLN:O	2.01	0.44
1:A:1154:ASP:HB3	1:A:1157:GLU:HB3	1.98	0.44
1:A:1687:SER:OG	2:B:36:PHE:HB2	2.18	0.44
1:A:1834:VAL:HG13	1:A:1835:GLU:N	2.32	0.44
1:A:2358:ILE:CG2	1:C:195:PHE:HE2	2.30	0.44
1:A:4563:ARG:NH1	1:A:4815:ASP:OD1	2.47	0.44
1:A:4715:TYR:O	1:A:4715:TYR:CG	2.71	0.44
1:A:4791:TYR:OH	1:A:4815:ASP:HA	2.18	0.44
1:C:14:LEU:HD12	1:C:163:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:833:GLY:HA3	1:C:838:HIS:CD2	2.52	0.44
1:C:1234:VAL:HG12	1:C:1235:THR:O	2.18	0.44
1:C:2232:CYS:O	1:C:2235:PHE:HB3	2.17	0.44
1:C:4931:ILE:O	1:C:4935:LEU:HB2	2.18	0.44
2:D:74:LEU:O	2:D:98:VAL:HA	2.18	0.44
1:E:663:TYR:OH	1:E:802:PHE:O	2.30	0.44
1:E:1234:VAL:HG12	1:E:1235:THR:O	2.17	0.44
1:E:1858:ASP:O	1:E:1862:ILE:HG12	2.18	0.44
1:E:4791:TYR:OH	1:E:4815:ASP:HA	2.18	0.44
2:F:67:SER:N	2:F:70:GLN:OE1	2.37	0.44
1:G:1082:THR:HG22	1:G:1189:LEU:HG	1.98	0.44
1:G:2114:PRO:O	1:G:3704:HIS:NE2	2.39	0.44
1:G:2208:MET:HE1	1:G:2253:HIS:CG	2.53	0.44
1:A:445:LEU:HD23	1:A:521:LEU:HG	2.00	0.44
1:A:862:VAL:HA	1:A:930:LYS:NZ	2.33	0.44
1:A:1074:ILE:HB	1:A:1239:SER:OG	2.18	0.44
1:A:3496:LYS:O	1:A:3513:THR:N	2.51	0.44
1:A:4910:GLU:HA	1:A:4913:ARG:HG2	2.00	0.44
1:A:4997:ASN:OD1	1:A:4998:LYS:N	2.50	0.44
2:B:22:CYS:O	2:B:47:LYS:HA	2.17	0.44
2:B:67:SER:N	2:B:70:GLN:OE1	2.37	0.44
1:C:411:TYR:O	1:C:415:ILE:HG13	2.18	0.44
1:C:635:THR:OG1	1:C:1638:ALA:O	2.31	0.44
1:C:1655:GLU:OE1	1:C:1655:GLU:N	2.50	0.44
1:C:1735:ILE:HD11	1:C:2156:LEU:HD11	1.99	0.44
1:C:2197:LEU:O	1:C:2201:LEU:HG	2.18	0.44
1:C:2756:ASN:OD1	1:C:2806:ARG:NH2	2.51	0.44
1:C:4582:VAL:HB	1:C:4628:VAL:HG12	2.00	0.44
1:C:4929:LEU:O	1:C:4933:GLN:HG3	2.17	0.44
1:E:569:ILE:HG22	1:E:570:GLU:OE2	2.18	0.44
1:E:1205:GLY:HA3	1:E:1227:ALA:CB	2.43	0.44
1:E:2752:ASP:HA	1:E:2755:ILE:HD12	2.00	0.44
1:E:4251:ILE:HG12	1:E:4553:ASN:HB3	2.00	0.44
2:F:11:ASP:OD1	2:F:67:SER:HB2	2.17	0.44
1:G:71:GLN:O	1:G:107:ILE:HA	2.18	0.44
1:G:73:LEU:O	1:G:105:HIS:HB3	2.17	0.44
1:G:662:TRP:CZ3	1:G:814:ALA:HB2	2.52	0.44
1:G:788:LYS:HD3	1:G:1629:GLN:OE1	2.17	0.44
1:G:1074:ILE:HB	1:G:1239:SER:OG	2.17	0.44
1:G:2244:ARG:NH1	1:G:2285:GLU:OE1	2.50	0.44
1:G:2258:LEU:C	1:G:2261:SER:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2463:LEU:N	1:G:2510:TYR:OH	2.50	0.44
1:G:4676:GLU:O	1:G:4680:LYS:HG3	2.17	0.44
1:A:35:LEU:HD13	1:A:49:LEU:HB3	2.00	0.43
1:A:292:ALA:HB3	1:A:302:VAL:HG11	1.99	0.43
1:A:1655:GLU:OE1	1:A:1655:GLU:N	2.51	0.43
1:A:1783:VAL:HG11	2:B:55:VAL:HG12	1.99	0.43
1:A:2191:PHE:CD1	1:A:2198:MET:HE2	2.51	0.43
1:A:2460:LEU:HD12	1:C:178:ARG:CZ	2.48	0.43
1:A:4251:ILE:HG12	1:A:4553:ASN:HB3	1.99	0.43
1:C:2296:GLU:HA	1:C:2299:VAL:HG22	1.99	0.43
1:C:2924:GLN:O	1:C:2928:LYS:HB2	2.18	0.43
1:C:3916:ILE:O	1:C:3919:THR:HG22	2.18	0.43
1:C:4251:ILE:HG12	1:C:4553:ASN:HB3	2.00	0.43
1:C:4924:VAL:HA	1:C:4928:LEU:HD12	2.00	0.43
1:C:4984:ASN:O	1:C:4985:LEU:HB2	2.18	0.43
1:E:21:VAL:HG12	1:E:65:CYS:O	2.18	0.43
1:E:1201:HIS:CD2	1:E:1202:LEU:H	2.35	0.43
1:E:1586:ASN:O	1:E:1588:ALA:N	2.49	0.43
1:E:1655:GLU:OE1	1:E:1655:GLU:N	2.51	0.43
1:E:1666:THR:O	1:E:1669:LEU:HB3	2.18	0.43
1:E:1834:VAL:HG13	1:E:1835:GLU:N	2.31	0.43
1:E:3838:THR:O	1:E:3839:CYS:SG	2.76	0.43
1:E:4842:GLY:O	1:E:4846:VAL:HG23	2.18	0.43
1:G:21:VAL:HG23	1:G:203:ASN:HB3	1.99	0.43
1:G:748:LEU:HD13	1:G:755:ILE:CG1	2.47	0.43
1:G:1119:GLU:C	1:G:1133:HIS:HE2	2.22	0.43
1:G:1655:GLU:N	1:G:1655:GLU:OE1	2.51	0.43
1:G:1808:ARG:HB2	1:G:1854:PHE:HE1	1.83	0.43
1:G:2137:ALA:HA	1:G:2140:ARG:HH11	1.82	0.43
1:G:4715:TYR:O	1:G:4715:TYR:CG	2.70	0.43
1:A:222:LEU:HB3	1:A:388:LEU:HD22	2.00	0.43
1:A:438:ILE:HG23	1:A:518:ILE:HD11	1.99	0.43
1:A:768:PHE:HB3	1:A:771:PHE:HE2	1.82	0.43
1:A:1858:ASP:O	1:A:1862:ILE:HG12	2.17	0.43
1:A:3501:ASP:HA	1:C:1224:GLU:OE2	2.18	0.43
1:A:3839:CYS:SG	1:A:3922:TYR:CE1	3.11	0.43
1:A:4251:ILE:HG22	1:A:4557:ARG:NH1	2.33	0.43
1:C:104:GLY:HA2	1:C:150:MET:O	2.19	0.43
1:C:1224:GLU:HA	1:C:1225:PRO:HD3	1.63	0.43
1:C:2137:ALA:HA	1:C:2140:ARG:HH11	1.83	0.43
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3970:GLN:HE21	1:C:5004:THR:CA	2.30	0.43
1:C:4214:LYS:HE2	1:C:4985:LEU:HD23	1.99	0.43
1:C:4888:TYR:OH	1:E:4898:GLY:O	2.36	0.43
1:E:21:VAL:HG23	1:E:203:ASN:HB3	1.99	0.43
1:E:251:ALA:O	1:E:254:THR:OG1	2.33	0.43
1:E:706:GLY:H	1:E:711:LEU:HD22	1.83	0.43
1:E:714:TYR:HB2	1:E:757:PHE:CD2	2.53	0.43
1:E:748:LEU:HD21	1:E:777:PHE:HD2	1.82	0.43
1:E:984:LEU:O	1:E:988:LEU:HG	2.18	0.43
1:E:1082:THR:HG22	1:E:1189:LEU:HG	1.98	0.43
1:E:2142:TYR:HE1	1:E:2196:ASN:HD22	1.65	0.43
1:E:2338:ALA:O	1:E:2349:ASN:ND2	2.51	0.43
1:E:4735:GLU:O	1:E:4739:GLU:N	2.50	0.43
1:G:314:PHE:HB3	1:G:348:VAL:CG1	2.49	0.43
1:G:454:PRO:HA	1:G:455:PRO:HD3	1.87	0.43
1:G:530:ILE:HG12	1:G:540:PHE:HE2	1.83	0.43
1:G:649:PHE:HB3	1:G:776:LEU:HB3	1.98	0.43
1:G:1858:ASP:O	1:G:1862:ILE:HG12	2.17	0.43
1:G:3786:CYS:SG	1:G:3794:VAL:HG22	2.58	0.43
1:A:21:VAL:HG23	1:A:203:ASN:HB3	1.99	0.43
1:A:290:TYR:HB2	1:A:307:ALA:CB	2.47	0.43
1:A:1201:HIS:CD2	1:A:1202:LEU:H	2.35	0.43
1:A:1224:GLU:OE2	1:G:3501:ASP:CB	2.67	0.43
1:A:2197:LEU:O	1:A:2201:LEU:HG	2.19	0.43
1:A:2556:LEU:HD23	1:A:2559:LEU:CD1	2.47	0.43
1:A:3835:LEU:HD22	1:A:3884:LEU:HD11	2.01	0.43
1:C:203:ASN:OD1	1:C:204:PRO:HD2	2.18	0.43
1:C:276:TRP:CZ3	1:C:338:GLU:HB3	2.54	0.43
1:C:748:LEU:HD13	1:C:755:ILE:CG1	2.47	0.43
1:C:1292:SER:O	1:C:1294:PRO:HD3	2.17	0.43
1:C:3496:LYS:O	1:C:3513:THR:N	2.51	0.43
1:C:3716:LEU:N	1:C:3789:GLU:OE2	2.51	0.43
1:C:3980:LEU:HA	1:C:3983:SER:OG	2.18	0.43
1:C:4578:LEU:HG	1:E:4880:MET:HB2	1.99	0.43
1:C:4834:GLY:O	1:C:4837:LEU:HB3	2.18	0.43
2:D:38:SER:O	2:D:41:ASP:HB2	2.18	0.43
2:D:73:LYS:HA	2:D:99:PHE:O	2.19	0.43
1:E:121:LEU:O	1:E:133:PHE:HB3	2.18	0.43
1:E:530:ILE:HG12	1:E:540:PHE:HE2	1.83	0.43
1:E:758:ARG:HA	1:E:763:PRO:HA	2.00	0.43
1:E:2116:LEU:O	1:E:2120:MET:HG3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3496:LYS:O	1:E:3513:THR:N	2.52	0.43
1:G:69:LEU:HD13	1:G:101:LEU:HD11	2.00	0.43
1:G:251:ALA:O	1:G:254:THR:OG1	2.34	0.43
1:G:3914:ASN:OD1	1:G:3916:ILE:HB	2.18	0.43
1:G:4801:LEU:O	1:G:4805:ASN:N	2.45	0.43
1:G:4913:ARG:O	1:G:4917:ASP:N	2.46	0.43
1:A:234:SER:O	1:A:242:ARG:HG2	2.19	0.43
1:A:1087:ARG:HH11	1:A:1223:PHE:HE1	1.65	0.43
1:A:2116:LEU:O	1:A:2120:MET:HG3	2.17	0.43
1:A:3980:LEU:HA	1:A:3983:SER:OG	2.17	0.43
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.18	0.43
2:B:7:ILE:HD12	2:B:71:ARG:HG2	2.00	0.43
1:C:758:ARG:HH12	1:C:763:PRO:HD3	1.82	0.43
1:C:2173:GLN:CG	1:C:2174:GLU:H	2.21	0.43
1:C:3906:GLN:HG2	1:C:3909:ASN:HB2	2.00	0.43
1:E:314:PHE:HB3	1:E:348:VAL:CG1	2.48	0.43
1:E:788:LYS:HB2	1:E:1629:GLN:HG3	2.00	0.43
1:E:1143:TRP:HE3	1:E:1144:GLN:O	2.01	0.43
1:E:2142:TYR:CE2	1:E:2197:LEU:HB2	2.54	0.43
1:E:3839:CYS:SG	1:E:3922:TYR:CE1	3.11	0.43
1:E:3969:ILE:CG1	1:E:3980:LEU:HD11	2.46	0.43
1:E:4689:THR:HG1	1:E:4690:GLU:CD	2.22	0.43
1:E:4984:ASN:O	1:E:4985:LEU:HB2	2.18	0.43
1:E:4991:PHE:O	1:E:4995:LEU:HG	2.18	0.43
2:F:73:LYS:HA	2:F:99:PHE:O	2.19	0.43
1:G:411:TYR:O	1:G:415:ILE:HG13	2.18	0.43
1:G:1514:LEU:C	1:G:1515:VAL:CG2	2.90	0.43
1:G:1666:THR:O	1:G:1669:LEU:HB3	2.19	0.43
1:G:1768:THR:O	1:G:1769:THR:OG1	2.23	0.43
1:G:3969:ILE:CD1	1:G:3980:LEU:HD11	2.48	0.43
1:G:4661:TYR:HA	1:G:4664:LEU:HB3	2.00	0.43
1:G:4887:MET:HA	1:G:4891:VAL:CG2	2.48	0.43
1:A:411:TYR:O	1:A:415:ILE:HG13	2.18	0.43
1:A:569:ILE:HG22	1:A:570:GLU:OE2	2.18	0.43
1:A:660:GLY:HA2	1:A:750:LEU:HD22	2.00	0.43
1:A:748:LEU:HD13	1:A:755:ILE:CG1	2.47	0.43
1:A:858:THR:HG21	1:A:992:GLY:HA2	2.01	0.43
1:A:2258:LEU:C	1:A:2261:SER:H	2.26	0.43
1:A:2745:VAL:HB	1:A:2814:LYS:HB3	1.99	0.43
1:A:2902:HIS:H	1:A:2905:LEU:HD12	1.83	0.43
1:C:121:LEU:O	1:C:133:PHE:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:706:GLY:H	1:C:711:LEU:HD22	1.83	0.43
1:C:1078:GLU:HB2	1:C:1235:THR:OG1	2.19	0.43
1:C:1152:MET:SD	1:C:1223:PHE:HD2	2.42	0.43
1:C:2258:LEU:C	1:C:2261:SER:H	2.26	0.43
1:C:4202:ARG:O	1:C:4206:GLU:HG2	2.19	0.43
1:C:4580:TYR:HB2	1:C:4631:PHE:CD1	2.53	0.43
1:C:4715:TYR:O	1:C:4715:TYR:CG	2.71	0.43
1:E:71:GLN:O	1:E:107:ILE:HA	2.18	0.43
1:E:411:TYR:O	1:E:415:ILE:HG13	2.19	0.43
1:E:758:ARG:HH12	1:E:763:PRO:HD3	1.82	0.43
1:E:1040:CYS:O	1:E:1044:ARG:N	2.52	0.43
1:E:2258:LEU:C	1:E:2261:SER:H	2.26	0.43
1:G:21:VAL:HG12	1:G:65:CYS:O	2.18	0.43
1:G:35:LEU:HD13	1:G:49:LEU:HB3	2.00	0.43
1:G:103:TYR:CE2	1:G:157:ARG:HB3	2.54	0.43
1:G:178:ARG:HB2	1:G:193:ALA:HB1	2.01	0.43
1:G:317:ARG:HG3	1:G:356:TRP:CH2	2.53	0.43
1:G:768:PHE:HB3	1:G:771:PHE:HE2	1.82	0.43
1:G:864:PRO:HG2	1:G:867:LEU:HD12	2.01	0.43
1:G:1091:GLU:HB2	1:G:1203:ASN:O	2.18	0.43
1:G:1201:HIS:CD2	1:G:1202:LEU:H	2.35	0.43
1:G:1685:LEU:HD23	1:G:1685:LEU:HA	1.75	0.43
1:G:2155:LEU:HD13	1:G:2188:ASN:OD1	2.19	0.43
1:G:2272:PRO:O	1:G:2275:VAL:HB	2.18	0.43
1:G:2296:GLU:HA	1:G:2299:VAL:HG22	1.99	0.43
1:G:3962:PHE:HZ	1:G:3992:PHE:CE2	2.36	0.43
1:G:4552:LEU:O	1:G:4555:LEU:HB3	2.18	0.43
1:A:706:GLY:H	1:A:711:LEU:HD22	1.83	0.43
1:A:1040:CYS:O	1:A:1044:ARG:N	2.52	0.43
1:A:1704:PRO:HG2	1:A:1707:LEU:HD12	2.01	0.43
1:A:2142:TYR:CE2	1:A:2197:LEU:HB2	2.54	0.43
1:A:2752:ASP:HA	1:A:2755:ILE:HD12	2.00	0.43
1:A:2929:PHE:O	1:A:2933:ASN:ND2	2.47	0.43
1:A:3716:LEU:N	1:A:3789:GLU:OE2	2.51	0.43
1:A:4010:ILE:HA	1:A:4013:LEU:HB3	2.01	0.43
1:A:4581:LYS:HD2	1:C:4856:PHE:CZ	2.50	0.43
1:A:4813:LEU:HD12	1:A:4814:LEU:N	2.34	0.43
1:C:119:SER:HB2	1:C:145:ALA:HB1	2.01	0.43
1:C:569:ILE:HG22	1:C:570:GLU:OE2	2.18	0.43
1:C:1143:TRP:HE3	1:C:1144:GLN:O	2.01	0.43
1:C:1666:THR:O	1:C:1669:LEU:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:276:TRP:CZ3	1:E:338:GLU:HB3	2.54	0.43
1:E:372:LEU:O	1:E:374:LYS:N	2.50	0.43
1:E:572:PRO:O	1:E:575:LEU:HB2	2.19	0.43
1:E:623:GLU:OE1	2:F:88:PRO:HA	2.18	0.43
1:E:1105:ALA:HB3	1:E:1191:VAL:HG21	2.00	0.43
1:E:1130:GLN:HB2	1:E:1138:PRO:HA	2.00	0.43
1:E:2155:LEU:HD13	1:E:2188:ASN:OD1	2.18	0.43
1:E:2902:HIS:H	1:E:2905:LEU:HD12	1.83	0.43
1:E:3835:LEU:HD22	1:E:3884:LEU:HD11	2.00	0.43
1:E:4143:VAL:O	1:E:4147:LEU:HG	2.17	0.43
1:E:4251:ILE:HG22	1:E:4557:ARG:NH1	2.33	0.43
1:E:4997:ASN:OD1	1:E:4998:LYS:N	2.51	0.43
1:G:1297:PHE:HB2	1:G:1545:ASN:HA	2.01	0.43
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.18	0.43
1:G:4036:VAL:HG12	1:G:4037:ASN:N	2.34	0.43
1:A:287:THR:O	1:A:405:HIS:CE1	2.72	0.43
1:A:548:VAL:O	1:A:551:LEU:HG	2.18	0.43
1:A:748:LEU:HD21	1:A:777:PHE:HD2	1.83	0.43
1:A:2123:LEU:HA	1:A:2123:LEU:HD23	1.77	0.43
1:A:2137:ALA:HA	1:A:2140:ARG:HH11	1.83	0.43
1:A:2338:ALA:O	1:A:2349:ASN:ND2	2.51	0.43
1:C:633:LEU:HD22	1:C:1663:HIS:HD2	1.84	0.43
1:C:1862:ILE:HG23	1:C:1865:MET:HE2	2.00	0.43
1:C:2142:TYR:CE2	1:C:2197:LEU:HB2	2.53	0.43
1:C:3756:LYS:O	1:C:3760:LYS:HB2	2.18	0.43
1:E:104:GLY:HA2	1:E:150:MET:O	2.18	0.43
1:E:1074:ILE:HG22	1:E:1075:PHE:N	2.34	0.43
1:E:1091:GLU:HB2	1:E:1203:ASN:O	2.18	0.43
1:E:1514:LEU:HD12	1:E:1514:LEU:N	2.34	0.43
1:E:1930:LYS:HG2	1:E:1931:LEU:N	2.34	0.43
1:E:3716:LEU:N	1:E:3789:GLU:OE2	2.51	0.43
1:E:3906:GLN:HG2	1:E:3909:ASN:HB2	2.01	0.43
1:E:4202:ARG:O	1:E:4206:GLU:HG2	2.19	0.43
1:E:4715:TYR:O	1:E:4715:TYR:CG	2.71	0.43
2:F:38:SER:O	2:F:41:ASP:HB2	2.18	0.43
1:G:561:LEU:CD2	1:G:598:LYS:HB3	2.48	0.43
1:G:569:ILE:HG22	1:G:570:GLU:OE2	2.19	0.43
1:G:714:TYR:HB2	1:G:757:PHE:CD2	2.53	0.43
1:G:748:LEU:HD21	1:G:777:PHE:HD2	1.82	0.43
1:G:1040:CYS:O	1:G:1044:ARG:N	2.51	0.43
1:G:2142:TYR:HE1	1:G:2196:ASN:ND2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2855:TYR:CD2	1:G:2857:PRO:HD3	2.54	0.43
1:G:4988:TYR:O	1:G:4991:PHE:HB3	2.17	0.43
1:A:80:GLU:OE1	1:G:3938:SER:OG	2.35	0.43
1:A:1088:TRP:CZ3	1:A:1226:PHE:HD1	2.36	0.43
1:A:1691:GLN:O	1:A:1695:LEU:HG	2.19	0.43
1:A:4833:ASN:OD1	1:A:4836:GLN:HG2	2.19	0.43
1:C:21:VAL:HG12	1:C:65:CYS:O	2.18	0.43
1:C:71:GLN:O	1:C:107:ILE:HA	2.18	0.43
1:C:222:LEU:HB3	1:C:388:LEU:HD22	2.00	0.43
1:C:593:HIS:HA	1:C:1597:VAL:HB	1.99	0.43
1:C:984:LEU:O	1:C:988:LEU:HG	2.19	0.43
1:C:1687:SER:OG	2:D:36:PHE:HB2	2.19	0.43
1:C:1808:ARG:HB2	1:C:1854:PHE:HE1	1.82	0.43
1:C:3758:MET:HG3	1:C:3759:GLU:N	2.34	0.43
1:C:4251:ILE:HG22	1:C:4557:ARG:NH1	2.33	0.43
1:C:4910:GLU:HA	1:C:4913:ARG:HG2	2.00	0.43
1:E:245:VAL:HG21	1:E:300:VAL:HA	2.01	0.43
1:E:287:THR:O	1:E:405:HIS:CE1	2.72	0.43
1:E:317:ARG:HG3	1:E:356:TRP:CH2	2.54	0.43
1:E:660:GLY:HA2	1:E:750:LEU:HD22	2.00	0.43
1:E:1835:GLU:OE2	1:E:1935:VAL:HG23	2.18	0.43
1:E:3756:LYS:O	1:E:3760:LYS:HB2	2.19	0.43
1:E:3891:LEU:HB3	1:E:3899:PHE:CE2	2.53	0.43
1:E:4041:ALA:O	1:E:4044:MET:HB3	2.19	0.43
1:E:4645:CYS:O	1:E:4649:LEU:N	2.45	0.43
1:G:1459:GLN:HE21	1:G:1459:GLN:HB2	1.60	0.43
1:G:1676:LEU:HG	1:G:1721:GLU:OE2	2.18	0.43
1:G:1835:GLU:OE2	1:G:1935:VAL:HG23	2.18	0.43
1:G:2360:LYS:HA	1:G:2360:LYS:HD2	1.89	0.43
1:G:3935:TRP:HZ2	1:G:3994:HIS:HE1	1.66	0.43
1:G:4976:GLU:HB2	1:G:4980:LEU:HD12	1.99	0.43
1:A:788:LYS:HB2	1:A:1629:GLN:HG3	2.00	0.43
1:A:1862:ILE:HG23	1:A:1865:MET:HE2	2.00	0.43
1:C:372:LEU:O	1:C:374:LYS:N	2.51	0.43
1:C:685:GLY:O	1:C:780:VAL:HB	2.18	0.43
1:C:1723:ALA:O	1:C:1727:ARG:HB2	2.19	0.43
1:C:2155:LEU:HD13	1:C:2188:ASN:OD1	2.19	0.43
1:C:2902:HIS:H	1:C:2905:LEU:HD12	1.83	0.43
1:C:3989:VAL:CB	1:C:4047:MET:HE1	2.43	0.43
1:C:4039:MET:HG3	1:C:4040:ILE:N	2.34	0.43
1:C:4802:GLY:HA2	1:C:4809:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:60:PRO:O	1:E:290:TYR:OH	2.33	0.43
1:E:203:ASN:OD1	1:E:204:PRO:HD2	2.18	0.43
1:E:702:TRP:HZ2	1:E:1640:HIS:HD1	1.67	0.43
1:E:1087:ARG:HH11	1:E:1223:PHE:HE1	1.65	0.43
1:E:1848:LEU:HD12	1:E:1851:MET:SD	2.59	0.43
1:E:4826:ILE:O	1:E:4829:SER:HB2	2.18	0.43
1:E:4851:TYR:HB3	1:E:4916:PHE:CZ	2.53	0.43
1:G:104:GLY:HA2	1:G:150:MET:O	2.19	0.43
1:G:572:PRO:O	1:G:575:LEU:HB2	2.19	0.43
1:G:758:ARG:HH12	1:G:763:PRO:HD3	1.83	0.43
1:G:1078:GLU:HB2	1:G:1235:THR:OG1	2.18	0.43
1:G:1110:ARG:HB2	1:G:1113:VAL:HG23	2.01	0.43
1:G:1152:MET:SD	1:G:1223:PHE:HD2	2.42	0.43
1:G:1514:LEU:C	1:G:1515:VAL:HG23	2.44	0.43
1:G:2424:SER:HA	1:G:2427:ALA:HB3	2.00	0.43
1:G:3877:ASP:O	1:G:3880:PHE:HB3	2.19	0.43
1:G:4555:LEU:HD11	1:G:4656:LEU:HG	1.99	0.43
1:G:4737:ILE:O	1:G:4740:LEU:HB3	2.19	0.43
1:A:21:VAL:HG12	1:A:65:CYS:O	2.18	0.43
1:A:179:TYR:OH	1:G:2359:ARG:CZ	2.66	0.43
1:A:317:ARG:HG3	1:A:356:TRP:CH2	2.53	0.43
1:A:864:PRO:HG2	1:A:867:LEU:HD12	2.01	0.43
1:A:1930:LYS:HG2	1:A:1931:LEU:N	2.33	0.43
1:A:4039:MET:HG3	1:A:4040:ILE:N	2.34	0.43
1:A:4843:LEU:O	1:A:4847:VAL:HG23	2.18	0.43
2:B:73:LYS:HA	2:B:99:PHE:O	2.19	0.43
1:C:287:THR:O	1:C:405:HIS:CE1	2.72	0.43
1:C:1287:LEU:HD13	1:C:1556:PRO:HD3	2.01	0.43
1:C:4836:GLN:HB3	1:C:4935:LEU:HD11	2.00	0.43
1:C:4887:MET:HA	1:C:4891:VAL:HG23	1.99	0.43
1:E:103:TYR:CE2	1:E:157:ARG:HB3	2.54	0.43
1:E:178:ARG:HB2	1:E:193:ALA:HB1	2.01	0.43
1:E:222:LEU:HB3	1:E:388:LEU:HD22	2.00	0.43
1:E:445:LEU:HD23	1:E:521:LEU:HG	2.01	0.43
1:E:647:ASN:N	1:E:822:ARG:O	2.52	0.43
1:E:737:LEU:HD11	2:F:7:ILE:CG2	2.44	0.43
1:E:1152:MET:SD	1:E:1223:PHE:HD2	2.42	0.43
1:E:1294:PRO:O	1:E:1584:ARG:NE	2.52	0.43
1:E:1440:PHE:CB	1:E:1512:THR:HG22	2.49	0.43
1:E:1691:GLN:O	1:E:1695:LEU:HG	2.19	0.43
1:E:4181:ILE:HD11	1:E:4193:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4826:ILE:HD11	1:G:4839:MET:CE	2.48	0.43
1:E:4836:GLN:HB3	1:E:4935:LEU:HD11	2.01	0.43
1:E:4892:ARG:HG3	1:G:4921:PHE:CE1	2.54	0.43
1:E:4920:PHE:O	1:E:4924:VAL:HB	2.19	0.43
1:G:145:ALA:HA	1:G:175:SER:HB3	2.01	0.43
1:G:317:ARG:N	1:G:347:PHE:O	2.52	0.43
1:G:758:ARG:HA	1:G:763:PRO:HA	2.01	0.43
1:G:1735:ILE:HD11	1:G:2156:LEU:HD11	2.01	0.43
1:G:1762:LEU:HD21	1:G:1860:LYS:NZ	2.34	0.43
1:G:2123:LEU:HD23	1:G:2123:LEU:HA	1.72	0.43
1:G:2197:LEU:O	1:G:2201:LEU:HG	2.19	0.43
1:G:3817:LEU:HD11	1:G:3821:LYS:HE2	2.00	0.43
1:G:4183:ILE:HD13	1:G:4193:ILE:HD13	2.01	0.43
1:A:1078:GLU:HB2	1:A:1235:THR:OG1	2.18	0.42
1:A:2500:ALA:HA	1:A:2556:LEU:HD21	2.01	0.42
1:A:2876:GLU:OE2	1:A:2916:LYS:HD3	2.19	0.42
1:A:3758:MET:HG3	1:A:3759:GLU:N	2.34	0.42
1:A:3825:GLU:C	1:A:3827:GLY:H	2.27	0.42
1:A:4059:LEU:HA	1:A:4062:PHE:HD2	1.84	0.42
1:A:4218:ILE:HG22	1:A:4950:VAL:HG13	2.01	0.42
1:A:4238:CYS:O	1:A:4242:ILE:HG13	2.19	0.42
1:A:4578:LEU:HD12	1:C:4879:MET:C	2.44	0.42
2:B:38:SER:O	2:B:41:ASP:HB2	2.18	0.42
1:C:21:VAL:HG23	1:C:203:ASN:HB3	1.99	0.42
1:C:42:PHE:CD1	1:C:116:MET:HE3	2.54	0.42
1:C:445:LEU:HD23	1:C:521:LEU:HG	2.01	0.42
1:C:788:LYS:HB2	1:C:1629:GLN:HG3	2.00	0.42
1:C:1074:ILE:HG22	1:C:1075:PHE:N	2.34	0.42
1:C:1294:PRO:O	1:C:1584:ARG:NE	2.52	0.42
1:C:1845:VAL:HG13	1:C:1854:PHE:HE2	1.84	0.42
1:C:1855:GLY:O	1:C:1858:ASP:HB2	2.19	0.42
1:C:2458:ARG:O	1:C:2464:ASP:N	2.52	0.42
1:C:4059:LEU:HA	1:C:4062:PHE:HD2	1.84	0.42
1:C:4208:PRO:HG2	1:C:4210:VAL:HG23	2.01	0.42
1:C:4791:TYR:OH	1:C:4815:ASP:HA	2.19	0.42
1:E:317:ARG:N	1:E:347:PHE:O	2.52	0.42
1:E:561:LEU:CD2	1:E:598:LYS:HB3	2.48	0.42
1:E:1723:ALA:O	1:E:1727:ARG:HB2	2.19	0.42
1:E:1862:ILE:HG23	1:E:1865:MET:HE2	2.00	0.42
1:E:2191:PHE:CD1	1:E:2198:MET:HE2	2.52	0.42
1:E:4010:ILE:HA	1:E:4013:LEU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:233:ILE:O	1:G:257:ARG:HD2	2.18	0.42
1:G:642:THR:OG1	1:G:1617:THR:HG21	2.19	0.42
1:G:984:LEU:O	1:G:988:LEU:HG	2.18	0.42
1:G:1087:ARG:HH11	1:G:1223:PHE:HE1	1.65	0.42
1:G:1130:GLN:HB2	1:G:1138:PRO:HA	2.00	0.42
1:G:1294:PRO:O	1:G:1584:ARG:NE	2.52	0.42
1:G:2094:LEU:O	1:G:2098:VAL:HG23	2.19	0.42
1:G:2556:LEU:HD23	1:G:2559:LEU:CD1	2.49	0.42
1:G:3724:ALA:O	1:G:3727:ASP:HB2	2.19	0.42
1:G:3933:PHE:O	1:G:3937:TYR:HD2	2.01	0.42
1:G:4033:GLY:HA2	1:G:4189:ARG:NH1	2.25	0.42
1:G:4582:VAL:HB	1:G:4628:VAL:HG12	2.01	0.42
1:A:984:LEU:O	1:A:988:LEU:HG	2.19	0.42
1:A:1152:MET:SD	1:A:1223:PHE:HD2	2.42	0.42
1:A:2155:LEU:HD13	1:A:2188:ASN:OD1	2.19	0.42
1:A:4851:TYR:HB3	1:A:4916:PHE:CZ	2.54	0.42
1:A:4898:GLY:CA	1:G:4888:TYR:OH	2.67	0.42
1:A:4920:PHE:O	1:A:4924:VAL:HB	2.20	0.42
1:C:548:VAL:O	1:C:551:LEU:HG	2.18	0.42
1:C:771:PHE:HE1	1:C:1472:VAL:HG13	1.84	0.42
1:C:1586:ASN:O	1:C:1588:ALA:N	2.49	0.42
1:C:1858:ASP:O	1:C:1862:ILE:HG12	2.18	0.42
1:C:2424:SER:HA	1:C:2427:ALA:HB3	2.01	0.42
1:C:2500:ALA:HA	1:C:2556:LEU:HD21	2.00	0.42
1:E:514:SER:O	1:E:518:ILE:HG13	2.19	0.42
1:E:548:VAL:O	1:E:551:LEU:HG	2.18	0.42
1:E:607:CYS:HB2	1:E:1672:ALA:HB1	2.01	0.42
1:E:771:PHE:HE1	1:E:1472:VAL:HG13	1.84	0.42
1:E:1087:ARG:HD2	1:E:1223:PHE:CE1	2.54	0.42
1:E:1689:VAL:HG22	1:E:1694:LEU:HD11	2.01	0.42
1:E:2137:ALA:HA	1:E:2140:ARG:HH11	1.83	0.42
1:E:2197:LEU:O	1:E:2201:LEU:HG	2.18	0.42
1:E:4055:VAL:O	1:E:4059:LEU:HG	2.19	0.42
1:G:340:LYS:HG3	1:G:342:GLY:N	2.35	0.42
1:G:660:GLY:HA2	1:G:750:LEU:HD22	2.01	0.42
1:G:828:GLU:HG3	1:G:840:VAL:HG21	2.01	0.42
1:G:1687:SER:OG	2:H:36:PHE:HB2	2.20	0.42
1:G:4141:PHE:CE1	1:G:4178:LEU:HA	2.54	0.42
1:A:178:ARG:CZ	1:G:2460:LEU:HD12	2.49	0.42
1:A:203:ASN:OD1	1:A:204:PRO:HD2	2.18	0.42
1:A:533:ASN:OD1	1:A:535:ALA:N	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1835:GLU:OE2	1:A:1935:VAL:HG23	2.18	0.42
1:A:3916:ILE:O	1:A:3919:THR:HG22	2.19	0.42
1:A:4013:LEU:O	1:A:4017:LEU:HG	2.19	0.42
1:A:4582:VAL:HG12	1:A:4629:TYR:HD1	1.85	0.42
1:A:4717:ASP:O	1:A:4719:PHE:N	2.48	0.42
1:C:314:PHE:HB3	1:C:348:VAL:CG1	2.49	0.42
1:C:1091:GLU:HB2	1:C:1203:ASN:O	2.18	0.42
1:C:1105:ALA:HB3	1:C:1191:VAL:HG21	2.00	0.42
1:C:5022:PHE:HA	1:C:5023:PRO:HD3	1.93	0.42
1:E:520:ASN:HB2	1:E:556:ALA:HB1	2.01	0.42
1:E:593:HIS:HA	1:E:1597:VAL:HB	2.00	0.42
1:E:633:LEU:HD22	1:E:1663:HIS:HD2	1.85	0.42
1:E:887:ILE:CG2	1:E:962:SER:HB2	2.48	0.42
1:E:1227:ALA:HA	1:E:1230:MET:HG2	2.01	0.42
1:E:1459:GLN:HE21	1:E:1459:GLN:HB2	1.54	0.42
1:E:1943:LEU:HD11	1:E:2098:VAL:HG22	2.00	0.42
1:E:2431:ASP:HB2	1:E:2501:SER:HA	2.01	0.42
1:E:3916:ILE:O	1:E:3919:THR:HG22	2.19	0.42
1:E:4034:ASN:HD21	1:E:4040:ILE:CG2	2.33	0.42
1:E:4041:ALA:O	1:E:4045:VAL:HG23	2.20	0.42
1:E:4073:GLY:H	1:E:4128:PHE:HE2	1.68	0.42
1:E:4214:LYS:HE2	1:E:4985:LEU:HD23	1.99	0.42
1:E:4578:LEU:CD1	1:G:4879:MET:C	2.93	0.42
1:E:4710:SER:OG	1:E:4772:ASP:OD2	2.35	0.42
1:G:245:VAL:HG21	1:G:300:VAL:HA	2.01	0.42
1:G:670:GLU:O	1:G:787:VAL:HG13	2.19	0.42
1:G:788:LYS:HB2	1:G:1629:GLN:HG3	2.00	0.42
1:G:927:GLU:O	1:G:930:LYS:HB2	2.19	0.42
1:G:1074:ILE:HG22	1:G:1075:PHE:N	2.34	0.42
1:G:1930:LYS:HG2	1:G:1931:LEU:N	2.33	0.42
1:G:4013:LEU:O	1:G:4017:LEU:N	2.52	0.42
1:G:4118:ASP:O	1:G:4120:ASN:N	2.52	0.42
1:G:4689:THR:HG1	1:G:4690:GLU:CD	2.24	0.42
1:G:4832:HIS:CE1	1:G:4833:ASN:HB2	2.54	0.42
2:H:7:ILE:HG13	2:H:73:LYS:N	2.35	0.42
2:H:11:ASP:OD2	2:H:68:VAL:HB	2.20	0.42
1:A:14:LEU:HD12	1:A:163:VAL:HG12	2.00	0.42
1:A:71:GLN:O	1:A:107:ILE:HA	2.18	0.42
1:A:359:TYR:OH	1:A:385:ASP:OD2	2.28	0.42
1:A:737:LEU:HB3	1:A:738:LEU:H	1.56	0.42
1:A:1676:LEU:HG	1:A:1721:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4984:ASN:O	1:A:4985:LEU:HB2	2.18	0.42
2:B:92:PRO:HA	2:B:93:PRO:HD3	1.91	0.42
1:C:35:LEU:HD13	1:C:49:LEU:HB3	2.00	0.42
1:C:103:TYR:CE2	1:C:157:ARG:HB3	2.54	0.42
1:C:245:VAL:HG21	1:C:300:VAL:HA	2.01	0.42
1:C:1040:CYS:O	1:C:1044:ARG:N	2.52	0.42
1:C:1130:GLN:HB2	1:C:1138:PRO:HA	2.00	0.42
1:C:2338:ALA:O	1:C:2349:ASN:ND2	2.52	0.42
1:C:4013:LEU:O	1:C:4017:LEU:HG	2.19	0.42
1:C:4653:VAL:O	1:C:4657:CYS:N	2.45	0.42
1:C:4920:PHE:O	1:C:4924:VAL:HB	2.19	0.42
1:E:1133:HIS:CE1	1:E:1134:LEU:HG	2.55	0.42
1:E:1687:SER:OG	2:F:36:PHE:HB2	2.19	0.42
1:E:2359:ARG:CZ	1:G:179:TYR:OH	2.67	0.42
1:G:1227:ALA:HA	1:G:1230:MET:HG2	2.01	0.42
1:G:1855:GLY:O	1:G:1858:ASP:HB2	2.19	0.42
1:G:2142:TYR:CE2	1:G:2197:LEU:HB2	2.54	0.42
1:G:2806:ARG:HB3	1:G:2810:LYS:HE3	2.01	0.42
1:G:4137:ARG:HD2	1:G:4177:TYR:CE2	2.55	0.42
1:G:4997:ASN:OD1	1:G:4998:LYS:N	2.52	0.42
1:A:771:PHE:HE1	1:A:1472:VAL:HG13	1.84	0.42
1:A:1452:TRP:HB3	1:A:1550:PRO:HA	2.02	0.42
1:A:2258:LEU:HA	1:A:2261:SER:OG	2.20	0.42
1:A:2431:ASP:HB2	1:A:2501:SER:HA	2.01	0.42
1:A:3718:GLU:HG3	1:A:3719:ASP:N	2.35	0.42
1:A:4073:GLY:H	1:A:4128:PHE:HE2	1.67	0.42
1:A:5004:THR:O	1:A:5007:GLU:HG2	2.20	0.42
2:B:74:LEU:O	2:B:98:VAL:HA	2.18	0.42
1:C:702:TRP:HZ2	1:C:1640:HIS:HD1	1.68	0.42
1:C:1835:GLU:OE2	1:C:1935:VAL:HG23	2.18	0.42
1:C:1857:GLU:O	1:C:1860:LYS:HB2	2.20	0.42
1:C:3811:GLU:HG2	1:C:3812:VAL:N	2.35	0.42
2:D:16:PRO:HG3	2:D:106:LEU:HD21	2.02	0.42
1:E:35:LEU:HD13	1:E:49:LEU:HB3	2.00	0.42
1:E:1808:ARG:HB2	1:E:1854:PHE:HE1	1.84	0.42
1:E:3825:GLU:C	1:E:3827:GLY:H	2.26	0.42
1:G:287:THR:O	1:G:405:HIS:CE1	2.72	0.42
1:G:514:SER:O	1:G:518:ILE:HG13	2.19	0.42
1:G:548:VAL:O	1:G:551:LEU:HG	2.19	0.42
1:G:580:GLU:HB3	1:G:620:LEU:HD11	2.02	0.42
1:G:1799:SER:HA	1:G:1800:PRO:HD2	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2819:TRP:HH2	1:G:2881:ASN:HB2	1.84	0.42
1:G:2879:ALA:HB2	1:G:2920:ARG:HA	2.00	0.42
1:G:3968:TYR:O	1:G:3976:ASN:ND2	2.52	0.42
1:G:4219:PHE:O	1:G:4223:ASN:HB2	2.19	0.42
1:G:4789:PHE:O	1:G:4793:GLY:N	2.46	0.42
1:A:178:ARG:HB2	1:A:193:ALA:HB1	2.01	0.42
1:A:216:GLY:HA3	1:A:264:PRO:CD	2.50	0.42
1:A:245:VAL:HG21	1:A:300:VAL:HA	2.00	0.42
1:A:276:TRP:CZ3	1:A:338:GLU:HB3	2.54	0.42
1:A:1834:VAL:HG13	1:A:1835:GLU:H	1.85	0.42
1:A:2745:VAL:CG2	1:A:2818:ALA:HB2	2.50	0.42
1:A:2855:TYR:CD2	1:A:2857:PRO:HD3	2.55	0.42
1:A:3756:LYS:O	1:A:3760:LYS:HB2	2.19	0.42
1:A:3970:GLN:HE21	1:A:5004:THR:CA	2.29	0.42
1:A:4888:TYR:OH	1:C:4898:GLY:O	2.38	0.42
1:C:402:ARG:NH1	1:C:405:HIS:CD2	2.86	0.42
1:C:1110:ARG:HB2	1:C:1113:VAL:HG23	2.00	0.42
1:C:1459:GLN:HE21	1:C:1459:GLN:HB2	1.56	0.42
1:C:1676:LEU:HG	1:C:1721:GLU:OE2	2.19	0.42
1:C:1819:VAL:HG22	1:C:1926:LEU:HD13	2.01	0.42
1:C:2855:TYR:CD2	1:C:2857:PRO:HD3	2.54	0.42
1:C:3732:SER:HB2	1:C:3766:GLN:HB3	2.02	0.42
1:C:4876:CYS:HB2	1:C:4877:ASP:H	1.54	0.42
1:C:4944:ARG:O	1:C:4947:GLN:HB2	2.20	0.42
1:C:4978:HIS:ND1	1:C:4982:GLU:OE1	2.53	0.42
1:E:864:PRO:HG2	1:E:867:LEU:HD12	2.01	0.42
1:E:1297:PHE:HB2	1:E:1545:ASN:HA	2.01	0.42
1:E:2460:LEU:HD21	1:G:131:LEU:HB2	2.01	0.42
1:E:2855:TYR:CD2	1:E:2857:PRO:HD3	2.55	0.42
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.20	0.42
1:E:4941:GLY:O	1:E:4945:ASP:HB2	2.19	0.42
1:G:276:TRP:CZ3	1:G:338:GLU:HB3	2.54	0.42
1:G:706:GLY:H	1:G:711:LEU:HD22	1.84	0.42
1:G:1087:ARG:HD2	1:G:1223:PHE:CE1	2.55	0.42
1:G:1723:ALA:O	1:G:1727:ARG:HB2	2.19	0.42
1:G:1862:ILE:HG23	1:G:1865:MET:HE2	2.01	0.42
1:G:2338:ALA:O	1:G:2349:ASN:ND2	2.52	0.42
1:G:2458:ARG:O	1:G:2464:ASP:N	2.53	0.42
1:G:3806:ASN:OD1	1:G:3807:GLY:N	2.52	0.42
1:G:4048:LEU:HA	1:G:4051:SER:OG	2.20	0.42
1:G:4055:VAL:O	1:G:4059:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4582:VAL:HG12	1:G:4629:TYR:HD1	1.84	0.42
1:G:4639:MET:HG3	1:G:4640:GLU:N	2.34	0.42
1:G:4792:LEU:O	1:G:4795:TYR:HB3	2.19	0.42
2:H:42:ARG:C	2:H:44:LYS:H	2.28	0.42
1:A:317:ARG:N	1:A:347:PHE:O	2.52	0.42
1:A:828:GLU:HG3	1:A:840:VAL:HG21	2.01	0.42
1:A:910:PHE:CG	1:A:918:ARG:HB3	2.55	0.42
1:A:1091:GLU:HB2	1:A:1203:ASN:O	2.19	0.42
1:A:1762:LEU:HD21	1:A:1860:LYS:NZ	2.34	0.42
1:A:2430:ILE:HG23	1:A:2501:SER:HB2	2.01	0.42
1:A:4710:SER:OG	1:A:4772:ASP:OD2	2.36	0.42
1:A:4914:VAL:O	1:A:4918:ILE:HG13	2.20	0.42
1:A:4921:PHE:HA	1:A:4925:ILE:CG1	2.49	0.42
1:C:178:ARG:HB2	1:C:193:ALA:HB1	2.01	0.42
1:C:647:ASN:N	1:C:822:ARG:O	2.52	0.42
1:C:660:GLY:HA2	1:C:750:LEU:HD22	2.01	0.42
1:C:758:ARG:HD3	1:C:761:GLY:HA2	2.02	0.42
1:C:1087:ARG:HD2	1:C:1223:PHE:CE1	2.54	0.42
1:C:1648:MET:SD	1:C:1656:ARG:NH2	2.92	0.42
1:C:2123:LEU:HD23	1:C:2123:LEU:HA	1.77	0.42
1:C:3651:ASN:HA	1:C:3654:LEU:HD12	2.02	0.42
1:C:4073:GLY:H	1:C:4128:PHE:HE2	1.68	0.42
1:C:4717:ASP:O	1:C:4719:PHE:N	2.48	0.42
1:E:145:ALA:HA	1:E:175:SER:HB3	2.02	0.42
1:E:175:SER:OG	1:E:176:SER:N	2.53	0.42
1:E:1099:GLU:H	1:E:1198:GLN:NE2	2.18	0.42
1:E:1110:ARG:HB2	1:E:1113:VAL:HG23	2.01	0.42
1:E:1514:LEU:C	1:E:1515:VAL:CG2	2.91	0.42
1:E:4208:PRO:HG2	1:E:4210:VAL:HG23	2.02	0.42
1:G:102:LEU:HD23	1:G:162:LYS:HA	2.01	0.42
1:G:222:LEU:HB3	1:G:388:LEU:HD22	2.00	0.42
1:G:771:PHE:HE1	1:G:1472:VAL:HG13	1.84	0.42
1:G:1848:LEU:HD12	1:G:1851:MET:SD	2.59	0.42
1:G:2431:ASP:HB2	1:G:2501:SER:HA	2.00	0.42
1:G:2821:TRP:CD1	1:G:2939:ARG:HA	2.55	0.42
1:G:4090:LYS:CB	1:G:4112:LEU:HD21	2.50	0.42
1:G:4949:GLN:NE2	1:G:4953:ASP:OD1	2.52	0.42
2:H:92:PRO:HA	2:H:93:PRO:HD3	1.89	0.42
1:A:175:SER:OG	1:A:176:SER:N	2.53	0.42
1:A:514:SER:O	1:A:518:ILE:HG13	2.19	0.42
1:A:537:CYS:HB3	1:A:571:SER:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:ASN:N	1:A:822:ARG:O	2.53	0.42
1:A:1689:VAL:HG22	1:A:1694:LEU:HD11	2.01	0.42
1:A:3651:ASN:HA	1:A:3654:LEU:HD12	2.02	0.42
1:A:4202:ARG:O	1:A:4206:GLU:HG2	2.19	0.42
1:A:4208:PRO:HG2	1:A:4210:VAL:HG23	2.01	0.42
1:A:4834:GLY:O	1:A:4837:LEU:HB3	2.20	0.42
1:A:5011:TRP:O	1:A:5015:GLN:HG2	2.20	0.42
1:C:1237:TRP:CD1	1:C:1611:HIS:HA	2.55	0.42
1:C:1654:SER:HB2	1:C:1704:PRO:HB3	2.02	0.42
1:C:1762:LEU:HD21	1:C:1860:LYS:NZ	2.35	0.42
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.20	0.42
1:C:2258:LEU:HA	1:C:2261:SER:OG	2.20	0.42
1:C:2822:THR:HG1	1:C:2938:THR:HG1	1.68	0.42
1:C:4238:CYS:O	1:C:4242:ILE:HG13	2.19	0.42
1:E:670:GLU:O	1:E:787:VAL:HG13	2.19	0.42
1:E:1654:SER:HB2	1:E:1704:PRO:HB3	2.02	0.42
1:E:1779:PRO:HA	1:E:1780:PRO:HD3	1.78	0.42
1:E:1819:VAL:HG22	1:E:1926:LEU:HD13	2.02	0.42
1:E:1834:VAL:HG13	1:E:1835:GLU:H	1.84	0.42
1:E:2437:ALA:HB1	1:E:2454:ARG:NE	2.35	0.42
1:E:3758:MET:HG3	1:E:3759:GLU:N	2.34	0.42
1:E:4717:ASP:O	1:E:4719:PHE:N	2.48	0.42
1:E:4887:MET:HA	1:E:4891:VAL:CG2	2.49	0.42
1:G:78:LEU:HA	1:G:81:MET:HG2	2.02	0.42
1:G:119:SER:HB2	1:G:145:ALA:HB1	2.01	0.42
1:G:633:LEU:HD22	1:G:1663:HIS:HD2	1.84	0.42
1:G:1133:HIS:CE1	1:G:1134:LEU:HG	2.55	0.42
1:G:1648:MET:SD	1:G:1656:ARG:NH2	2.93	0.42
1:G:1748:PHE:HA	1:G:1749:PRO:HD2	1.75	0.42
1:G:1783:VAL:HG11	2:H:55:VAL:HG12	2.02	0.42
1:G:2110:TYR:O	1:G:2110:TYR:CD2	2.73	0.42
1:G:2199:ARG:NE	1:G:2249:SER:OG	2.51	0.42
1:G:2258:LEU:HA	1:G:2261:SER:OG	2.20	0.42
1:G:4088:ILE:O	1:G:4123:ILE:N	2.45	0.42
1:G:4990:PHE:O	1:G:4993:MET:HG2	2.19	0.42
1:A:69:LEU:HD13	1:A:101:LEU:HD11	2.00	0.42
1:A:145:ALA:HA	1:A:175:SER:HB3	2.02	0.42
1:A:1245:PHE:CE2	1:A:1646:ARG:NH1	2.88	0.42
1:A:1287:LEU:HD13	1:A:1556:PRO:HD3	2.02	0.42
1:A:1654:SER:HB2	1:A:1704:PRO:HB3	2.02	0.42
1:A:1666:THR:O	1:A:1669:LEU:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1855:GLY:O	1:A:1858:ASP:HB2	2.19	0.42
1:A:2094:LEU:O	1:A:2098:VAL:HG23	2.19	0.42
1:A:4578:LEU:C	1:C:4879:MET:HB2	2.45	0.42
1:A:4839:MET:HE3	1:G:4822:THR:O	2.14	0.42
1:A:4887:MET:HA	1:A:4891:VAL:CG2	2.50	0.42
1:C:102:LEU:HD23	1:C:162:LYS:HA	2.02	0.42
1:C:317:ARG:HG3	1:C:356:TRP:CH2	2.54	0.42
1:C:572:PRO:O	1:C:575:LEU:HB2	2.19	0.42
1:C:1099:GLU:H	1:C:1198:GLN:NE2	2.18	0.42
1:C:1729:SER:HB2	1:C:2163:ARG:HH11	1.82	0.42
1:C:4943:LEU:O	1:C:4947:GLN:HG2	2.20	0.42
1:E:42:PHE:CD1	1:E:116:MET:HE3	2.55	0.42
1:E:454:PRO:HA	1:E:455:PRO:HD3	1.86	0.42
1:E:1078:GLU:HB2	1:E:1235:THR:OG1	2.18	0.42
1:E:1527:MET:HE2	1:E:1529:PHE:HE1	1.85	0.42
1:E:1855:GLY:O	1:E:1858:ASP:HB2	2.19	0.42
1:E:1856:ASP:H	1:E:1857:GLU:CB	2.30	0.42
1:E:2258:LEU:HA	1:E:2261:SER:OG	2.20	0.42
1:E:2358:ILE:HG21	1:G:195:PHE:CE2	2.55	0.42
1:E:3811:GLU:HG2	1:E:3812:VAL:N	2.35	0.42
1:E:3933:PHE:O	1:E:3937:TYR:HD2	2.03	0.42
1:E:4943:LEU:O	1:E:4947:GLN:HG2	2.20	0.42
1:G:828:GLU:OE2	1:G:831:ARG:HA	2.20	0.42
1:G:975:VAL:HG21	1:G:1044:ARG:CB	2.47	0.42
1:G:1616:GLU:HG3	1:G:1617:THR:HG23	2.02	0.42
1:G:2745:VAL:HB	1:G:2814:LYS:HB3	2.00	0.42
1:G:3703:LEU:HD23	1:G:3703:LEU:O	2.19	0.42
1:A:246:TYR:CE2	1:A:373:LYS:HD3	2.54	0.42
1:A:1105:ALA:HB3	1:A:1191:VAL:HG21	2.00	0.42
1:A:1133:HIS:CE1	1:A:1134:LEU:HG	2.55	0.42
1:A:1648:MET:SD	1:A:1656:ARG:NH2	2.93	0.42
1:A:1808:ARG:HB2	1:A:1854:PHE:HE1	1.83	0.42
1:A:1945:TYR:O	1:A:1949:GLN:HG2	2.20	0.42
1:A:2424:SER:HA	1:A:2427:ALA:HB3	2.01	0.42
1:A:3881:THR:O	1:A:3885:PHE:HD2	2.03	0.42
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.53	0.42
1:A:4041:ALA:O	1:A:4044:MET:HB3	2.19	0.42
1:A:4823:LEU:HG	1:A:4826:ILE:HD12	2.01	0.42
1:A:4842:GLY:O	1:A:4846:VAL:HG23	2.20	0.42
1:C:828:GLU:HG3	1:C:840:VAL:HG21	2.01	0.42
1:C:927:GLU:O	1:C:930:LYS:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1288:PHE:O	1:C:1603:VAL:HG13	2.20	0.42
1:C:2752:ASP:HA	1:C:2755:ILE:HD12	2.01	0.42
1:C:2876:GLU:OE2	1:C:2916:LYS:HD3	2.20	0.42
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.54	0.42
1:C:4041:ALA:O	1:C:4045:VAL:HG23	2.20	0.42
1:E:119:SER:HB2	1:E:145:ALA:HB1	2.01	0.42
1:E:1783:VAL:HG11	2:F:55:VAL:HG12	2.01	0.42
1:E:2463:LEU:N	1:E:2510:TYR:OH	2.50	0.42
1:E:2806:ARG:HB3	1:E:2810:LYS:HE3	2.02	0.42
1:E:4154:VAL:HA	1:E:4155:PRO:HD2	1.88	0.42
1:G:537:CYS:HB3	1:G:571:SER:HB3	2.02	0.42
1:G:612:VAL:HA	1:G:2167:ILE:HG23	2.02	0.42
1:G:1452:TRP:HB3	1:G:1550:PRO:HA	2.02	0.42
1:G:1857:GLU:O	1:G:1860:LYS:HB2	2.20	0.42
1:G:3774:GLY:HA2	1:G:3815:LYS:HZ1	1.85	0.42
1:G:3980:LEU:HA	1:G:3983:SER:CB	2.50	0.42
1:G:4675:LYS:O	1:G:4679:ARG:HG2	2.20	0.42
1:G:5006:GLN:O	1:G:5010:VAL:HG23	2.19	0.42
1:A:672:VAL:O	1:A:680:THR:OG1	2.30	0.41
1:A:2359:ARG:CZ	1:C:179:TYR:OH	2.68	0.41
1:A:2449:GLU:O	1:A:2452:ARG:HB2	2.20	0.41
1:A:4041:ALA:O	1:A:4045:VAL:HG23	2.20	0.41
1:A:4879:MET:C	1:G:4578:LEU:HD12	2.45	0.41
1:C:40:GLU:OE2	1:C:406:SER:HB2	2.20	0.41
1:C:246:TYR:CE2	1:C:373:LYS:HD3	2.55	0.41
1:C:346:CYS:O	1:C:388:LEU:HB2	2.19	0.41
1:C:582:HIS:O	1:C:585:SER:HB2	2.20	0.41
1:C:1245:PHE:CE2	1:C:1646:ARG:NH1	2.88	0.41
1:C:1294:PRO:CD	1:C:1584:ARG:HH11	2.19	0.41
1:C:1297:PHE:HB2	1:C:1545:ASN:HA	2.02	0.41
1:C:1457:TYR:O	1:C:1458:HIS:CG	2.73	0.41
1:C:2142:TYR:CD2	1:C:2197:LEU:HD12	2.55	0.41
1:C:2558:VAL:O	1:C:2561:LEU:HG	2.20	0.41
1:C:2887:GLY:O	1:C:2891:LYS:HG3	2.20	0.41
1:C:3881:THR:O	1:C:3885:PHE:HD2	2.03	0.41
1:C:4710:SER:OG	1:C:4772:ASP:OD2	2.36	0.41
1:C:4892:ARG:CZ	1:E:4896:GLY:CA	2.87	0.41
1:E:78:LEU:HA	1:E:81:MET:HG2	2.02	0.41
1:E:1452:TRP:HB3	1:E:1550:PRO:HA	2.02	0.41
1:E:2458:ARG:O	1:E:2464:ASP:N	2.53	0.41
1:E:4208:PRO:HB2	1:E:4209:GLN:H	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4636:THR:OG1	1:E:4639:MET:HE2	2.20	0.41
1:E:5011:TRP:O	1:E:5015:GLN:HG2	2.20	0.41
1:G:445:LEU:HD23	1:G:521:LEU:HG	2.01	0.41
1:G:582:HIS:O	1:G:585:SER:HB2	2.20	0.41
1:G:758:ARG:HD3	1:G:761:GLY:HA2	2.01	0.41
1:G:910:PHE:CG	1:G:918:ARG:HB3	2.55	0.41
1:G:1457:TYR:O	1:G:1458:HIS:CG	2.73	0.41
1:G:1834:VAL:HG13	1:G:1835:GLU:H	1.85	0.41
1:G:2123:LEU:HD23	1:G:2126:ARG:HD2	2.02	0.41
1:G:2336:ARG:HH11	1:G:2431:ASP:HB3	1.84	0.41
1:G:3838:THR:OG1	1:G:3839:CYS:N	2.53	0.41
1:G:4164:LEU:O	1:G:4168:GLU:N	2.53	0.41
2:H:38:SER:O	2:H:41:ASP:HB2	2.19	0.41
1:A:73:LEU:O	1:A:105:HIS:HB3	2.19	0.41
1:A:251:ALA:O	1:A:254:THR:OG1	2.33	0.41
1:A:1294:PRO:O	1:A:1584:ARG:NE	2.52	0.41
1:A:1845:VAL:HG13	1:A:1854:PHE:HE2	1.84	0.41
1:A:2142:TYR:CD2	1:A:2197:LEU:HD12	2.55	0.41
1:A:2458:ARG:O	1:A:2464:ASP:N	2.52	0.41
1:A:3732:SER:HB2	1:A:3766:GLN:HB3	2.01	0.41
1:A:4034:ASN:HD21	1:A:4040:ILE:CG2	2.33	0.41
1:A:4055:VAL:O	1:A:4059:LEU:HG	2.20	0.41
1:A:4058:ILE:HG13	1:A:4059:LEU:N	2.35	0.41
1:C:165:VAL:HG13	1:C:204:PRO:HD3	2.01	0.41
1:C:317:ARG:N	1:C:347:PHE:O	2.52	0.41
1:C:537:CYS:HB3	1:C:571:SER:HB3	2.02	0.41
1:C:670:GLU:O	1:C:787:VAL:HG13	2.19	0.41
1:C:768:PHE:HB3	1:C:771:PHE:CE2	2.56	0.41
1:C:864:PRO:HG2	1:C:867:LEU:HD12	2.02	0.41
1:C:1514:LEU:N	1:C:1514:LEU:CD1	2.84	0.41
1:C:1514:LEU:C	1:C:1515:VAL:HG23	2.44	0.41
1:C:3940:LYS:NZ	1:C:3944:GLU:OE2	2.46	0.41
1:C:4010:ILE:HA	1:C:4013:LEU:HB3	2.01	0.41
1:C:4027:LEU:HD22	1:C:4044:MET:HE2	2.02	0.41
1:C:4047:MET:HG3	1:C:4048:LEU:N	2.36	0.41
1:C:4055:VAL:O	1:C:4059:LEU:HG	2.20	0.41
1:C:4636:THR:OG1	1:C:4639:MET:HE2	2.21	0.41
1:C:4866:SER:O	1:C:4868:ASP:N	2.53	0.41
1:C:5011:TRP:O	1:C:5015:GLN:HG2	2.20	0.41
1:E:927:GLU:O	1:E:930:LYS:HB2	2.19	0.41
1:E:1245:PHE:CE2	1:E:1646:ARG:NH1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2868:SER:O	1:E:2872:GLN:N	2.48	0.41
1:E:3651:ASN:HA	1:E:3654:LEU:HD12	2.02	0.41
1:E:3718:GLU:HG3	1:E:3719:ASP:N	2.35	0.41
1:E:4059:LEU:HA	1:E:4062:PHE:HD2	1.84	0.41
1:E:4062:PHE:O	1:E:4170:ILE:HG21	2.20	0.41
1:E:4183:ILE:HD13	1:E:4193:ILE:HD13	2.03	0.41
1:E:4691:GLN:HA	1:E:4692:PRO:HD2	1.86	0.41
1:G:246:TYR:CE2	1:G:373:LYS:HD3	2.55	0.41
1:G:1105:ALA:HB3	1:G:1191:VAL:HG21	2.00	0.41
1:G:1603:VAL:HG12	1:G:1604:SER:O	2.20	0.41
1:G:2142:TYR:CD2	1:G:2197:LEU:HD12	2.55	0.41
1:G:2430:ILE:HG23	1:G:2501:SER:HB2	2.01	0.41
1:G:2887:GLY:O	1:G:2891:LYS:HG3	2.20	0.41
1:G:3839:CYS:HB2	1:G:3881:THR:HG22	2.02	0.41
1:G:3969:ILE:HG12	1:G:3980:LEU:HD11	2.03	0.41
1:G:4720:VAL:HG12	1:G:4724:VAL:HG23	2.00	0.41
1:A:758:ARG:HH12	1:A:763:PRO:HD3	1.83	0.41
1:A:828:GLU:OE2	1:A:831:ARG:HA	2.20	0.41
1:A:1856:ASP:N	1:A:1858:ASP:H	2.18	0.41
1:A:2299:VAL:O	1:A:2360:LYS:HE2	2.21	0.41
1:A:2868:SER:O	1:A:2872:GLN:N	2.48	0.41
1:A:3811:GLU:HG2	1:A:3812:VAL:N	2.34	0.41
1:A:3983:SER:C	1:A:3985:LEU:H	2.28	0.41
1:A:4047:MET:HG3	1:A:4048:LEU:N	2.35	0.41
1:A:4879:MET:C	1:G:4578:LEU:CD1	2.93	0.41
1:A:4943:LEU:O	1:A:4947:GLN:HG2	2.20	0.41
1:A:4978:HIS:ND1	1:A:4982:GLU:OE1	2.53	0.41
1:C:607:CYS:HB2	1:C:1672:ALA:HB1	2.02	0.41
1:C:828:GLU:OE2	1:C:831:ARG:HA	2.20	0.41
1:C:1246:GLU:HA	1:C:1247:PRO:HD3	1.90	0.41
1:C:1647:CYS:O	1:C:1648:MET:HG3	2.20	0.41
1:C:1691:GLN:O	1:C:1695:LEU:HG	2.19	0.41
1:C:4566:ALA:HA	1:C:4569:LEU:HD12	2.03	0.41
1:E:582:HIS:O	1:E:585:SER:HB2	2.20	0.41
1:E:1676:LEU:HG	1:E:1721:GLU:OE2	2.20	0.41
1:E:2500:ALA:HA	1:E:2556:LEU:HD21	2.01	0.41
1:E:2515:GLN:O	1:E:2518:LEU:HB3	2.20	0.41
1:E:2745:VAL:CG2	1:E:2818:ALA:HB2	2.50	0.41
1:E:4834:GLY:O	1:E:4837:LEU:HB3	2.20	0.41
1:E:4863:TYR:HD2	1:E:4876:CYS:SG	2.44	0.41
1:E:4866:SER:O	1:E:4868:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:5011:TRP:O	1:E:5014:TYR:HB3	2.20	0.41
1:G:165:VAL:HG13	1:G:204:PRO:HD3	2.02	0.41
1:G:696:PRO:HD2	1:G:829:TYR:CE2	2.52	0.41
1:G:702:TRP:HZ2	1:G:1640:HIS:HD1	1.67	0.41
1:G:1704:PRO:HG2	1:G:1707:LEU:HD12	2.02	0.41
1:G:3556:ASN:O	1:G:3560:GLN:N	2.54	0.41
1:G:4161:ARG:HA	1:G:4164:LEU:HB3	2.03	0.41
1:G:4710:SER:OG	1:G:4772:ASP:OD2	2.33	0.41
1:A:42:PHE:CD1	1:A:116:MET:HE3	2.55	0.41
1:A:445:LEU:CD2	1:A:522:LEU:HD12	2.44	0.41
1:A:684:VAL:HG22	1:A:781:VAL:HG13	2.02	0.41
1:A:1527:MET:HE2	1:A:1529:PHE:HE1	1.85	0.41
1:A:2558:VAL:O	1:A:2561:LEU:HG	2.20	0.41
1:A:4880:MET:CA	1:G:4578:LEU:CD1	2.89	0.41
1:C:669:ASP:CB	1:C:788:LYS:NZ	2.83	0.41
1:C:4218:ILE:HG22	1:C:4950:VAL:HG13	2.02	0.41
1:C:4823:LEU:HG	1:C:4826:ILE:HD12	2.02	0.41
1:E:858:THR:HG21	1:E:992:GLY:HA2	2.02	0.41
1:E:870:ILE:HA	1:E:873:LYS:HB3	2.02	0.41
1:E:1585:LYS:HD3	1:E:1596:GLU:OE2	2.21	0.41
1:E:3881:THR:O	1:E:3885:PHE:HD2	2.03	0.41
1:E:4174:PHE:HA	1:E:4177:TYR:CD2	2.56	0.41
1:E:4217:PHE:CZ	1:E:4234:PHE:HA	2.56	0.41
1:E:4218:ILE:HG22	1:E:4950:VAL:HG13	2.01	0.41
1:E:4251:ILE:HG22	1:E:4557:ARG:HH11	1.85	0.41
1:E:4944:ARG:O	1:E:4947:GLN:HB2	2.20	0.41
1:G:78:LEU:O	1:G:81:MET:HG2	2.21	0.41
1:G:216:GLY:HA3	1:G:264:PRO:CD	2.49	0.41
1:G:647:ASN:N	1:G:822:ARG:O	2.52	0.41
1:G:768:PHE:HB3	1:G:771:PHE:CE2	2.56	0.41
1:G:856:VAL:O	1:G:991:ASN:ND2	2.50	0.41
1:G:879:HIS:NE2	1:G:906:CYS:O	2.53	0.41
1:G:1585:LYS:HD3	1:G:1596:GLU:OE2	2.20	0.41
1:G:1845:VAL:HG13	1:G:1854:PHE:HE2	1.85	0.41
1:G:2862:LEU:HD11	1:G:2929:PHE:HD1	1.85	0.41
1:G:4006:ASP:HB2	1:G:4009:GLN:HG2	2.02	0.41
1:G:4866:SER:O	1:G:4868:ASP:N	2.53	0.41
1:A:12:GLN:O	1:A:165:VAL:HG23	2.21	0.41
1:A:102:LEU:HD23	1:A:162:LYS:HA	2.03	0.41
1:A:340:LYS:HG3	1:A:342:GLY:N	2.35	0.41
1:A:515:TRP:HA	1:A:518:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:LEU:HD22	1:A:1663:HIS:HD2	1.84	0.41
1:A:975:VAL:HG21	1:A:1044:ARG:CB	2.47	0.41
1:A:1719:HIS:CG	1:A:1802:ILE:HG23	2.56	0.41
1:A:1819:VAL:HG22	1:A:1926:LEU:HD13	2.02	0.41
1:A:1848:LEU:HD12	1:A:1851:MET:SD	2.60	0.41
2:B:16:PRO:HG3	2:B:106:LEU:HD21	2.03	0.41
1:C:78:LEU:HA	1:C:81:MET:HG2	2.02	0.41
1:C:642:THR:OG1	1:C:1617:THR:HG21	2.20	0.41
1:C:879:HIS:NE2	1:C:906:CYS:O	2.53	0.41
1:C:1834:VAL:HG13	1:C:1835:GLU:H	1.84	0.41
1:C:2349:ASN:O	1:C:2353:VAL:HG23	2.20	0.41
1:C:3825:GLU:C	1:C:3827:GLY:H	2.27	0.41
1:C:4041:ALA:O	1:C:4044:MET:HB3	2.19	0.41
1:C:4217:PHE:CZ	1:C:4234:PHE:HA	2.56	0.41
1:C:4863:TYR:HD2	1:C:4876:CYS:SG	2.44	0.41
1:E:669:ASP:CB	1:E:788:LYS:NZ	2.83	0.41
1:E:768:PHE:HB3	1:E:771:PHE:CE2	2.56	0.41
1:E:945:LYS:HA	1:E:1049:TYR:HA	2.03	0.41
1:E:1237:TRP:CD1	1:E:1611:HIS:HA	2.56	0.41
1:E:1287:LEU:HD13	1:E:1556:PRO:HD3	2.01	0.41
1:E:1729:SER:HB2	1:E:2163:ARG:HH11	1.82	0.41
1:E:1762:LEU:HD21	1:E:1860:LYS:NZ	2.34	0.41
1:E:2094:LEU:O	1:E:2098:VAL:HG23	2.21	0.41
1:E:2186:MET:HE2	1:E:2186:MET:HA	2.02	0.41
1:E:2430:ILE:HG23	1:E:2501:SER:HB2	2.01	0.41
1:E:2887:GLY:O	1:E:2891:LYS:HG3	2.20	0.41
1:E:4027:LEU:HD22	1:E:4044:MET:HE2	2.02	0.41
1:E:5004:THR:O	1:E:5007:GLU:HG2	2.21	0.41
1:G:40:GLU:OE2	1:G:406:SER:HB2	2.20	0.41
1:G:42:PHE:CD1	1:G:116:MET:HE3	2.54	0.41
1:G:1072:VAL:HG22	1:G:1196:PRO:HD3	2.03	0.41
1:G:1099:GLU:H	1:G:1198:GLN:NE2	2.18	0.41
1:G:1245:PHE:CE2	1:G:1646:ARG:NH1	2.88	0.41
1:G:1691:GLN:O	1:G:1695:LEU:HG	2.19	0.41
1:G:2299:VAL:O	1:G:2360:LYS:HE2	2.20	0.41
1:G:3977:GLN:NE2	1:G:4030:LEU:O	2.54	0.41
1:G:4227:GLU:C	1:G:4229:GLU:H	2.28	0.41
2:H:4:VAL:HG21	2:H:62:GLY:HA3	2.01	0.41
1:A:607:CYS:HB2	1:A:1672:ALA:HB1	2.01	0.41
1:A:768:PHE:HB3	1:A:771:PHE:CE2	2.56	0.41
1:A:1723:ALA:O	1:A:1727:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3922:TYR:HA	1:A:3925:ARG:HG2	2.02	0.41
1:A:3933:PHE:O	1:A:3937:TYR:HD2	2.03	0.41
1:A:4653:VAL:O	1:A:4657:CYS:N	2.46	0.41
1:A:4866:SER:O	1:A:4868:ASP:N	2.54	0.41
1:A:4983:HIS:O	1:A:4984:ASN:C	2.64	0.41
1:C:69:LEU:HD13	1:C:101:LEU:HD11	2.01	0.41
1:C:340:LYS:HG3	1:C:342:GLY:N	2.36	0.41
1:C:514:SER:O	1:C:518:ILE:HG13	2.20	0.41
1:C:515:TRP:HA	1:C:518:ILE:HD12	2.02	0.41
1:C:580:GLU:HB3	1:C:620:LEU:HD11	2.03	0.41
1:C:1616:GLU:HG3	1:C:1617:THR:HG23	2.02	0.41
1:C:1689:VAL:HG22	1:C:1694:LEU:HD11	2.01	0.41
1:C:3886:ARG:O	1:C:3890:LEU:HD13	2.21	0.41
1:C:3927:GLN:HE21	1:C:3991:GLY:HA3	1.86	0.41
1:C:4058:ILE:HG13	1:C:4059:LEU:N	2.35	0.41
1:C:4137:ARG:HD2	1:C:4177:TYR:CE2	2.56	0.41
1:C:4582:VAL:HG12	1:C:4629:TYR:HD1	1.85	0.41
1:C:4735:GLU:O	1:C:4739:GLU:N	2.50	0.41
1:E:40:GLU:OE2	1:E:406:SER:HB2	2.20	0.41
1:E:111:HIS:CD2	1:E:113:HIS:HB3	2.56	0.41
1:E:642:THR:OG1	1:E:1617:THR:HG21	2.20	0.41
1:E:758:ARG:HD3	1:E:761:GLY:HA2	2.03	0.41
1:E:826:ILE:O	1:E:828:GLU:N	2.54	0.41
1:E:828:GLU:HG3	1:E:840:VAL:HG21	2.02	0.41
1:E:1457:TYR:O	1:E:1458:HIS:CG	2.73	0.41
1:E:1637:MET:HE3	1:E:1650:ILE:HD13	2.03	0.41
1:E:1857:GLU:O	1:E:1860:LYS:HB2	2.20	0.41
1:E:1945:TYR:O	1:E:1949:GLN:HG2	2.21	0.41
1:E:2349:ASN:O	1:E:2353:VAL:HG23	2.21	0.41
1:E:2876:GLU:OE2	1:E:2916:LYS:HD3	2.20	0.41
1:E:4578:LEU:HG	1:E:4578:LEU:O	2.20	0.41
1:E:4580:TYR:HB2	1:E:4631:PHE:CD1	2.56	0.41
1:G:485:SER:O	1:G:488:LEU:HB3	2.21	0.41
1:G:1237:TRP:CD1	1:G:1611:HIS:HA	2.56	0.41
1:G:1527:MET:HE2	1:G:1529:PHE:HE1	1.85	0.41
1:G:1856:ASP:H	1:G:1857:GLU:CB	2.31	0.41
1:G:1959:ALA:O	1:G:1962:ALA:HB3	2.20	0.41
1:G:4157:ASP:O	1:G:4161:ARG:NE	2.53	0.41
1:G:4820:VAL:HG12	1:G:4821:LYS:H	1.85	0.41
1:A:40:GLU:OE2	1:A:406:SER:HB2	2.20	0.41
1:A:120:CYS:HA	1:A:135:VAL:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:879:HIS:NE2	1:A:906:CYS:O	2.53	0.41
1:A:1074:ILE:HG22	1:A:1075:PHE:N	2.34	0.41
1:A:1288:PHE:O	1:A:1603:VAL:HG13	2.21	0.41
1:A:1293:LEU:HB3	1:A:1584:ARG:HE	1.86	0.41
1:A:1297:PHE:HB2	1:A:1545:ASN:HA	2.03	0.41
1:A:1857:GLU:O	1:A:1860:LYS:HB2	2.20	0.41
1:A:2349:ASN:O	1:A:2353:VAL:HG23	2.21	0.41
1:A:4027:LEU:HD22	1:A:4044:MET:HE2	2.02	0.41
1:A:4137:ARG:HD2	1:A:4177:TYR:CE2	2.56	0.41
1:A:4183:ILE:HD13	1:A:4193:ILE:HD13	2.03	0.41
1:A:4581:LYS:HE2	1:C:4877:ASP:O	2.21	0.41
1:A:4931:ILE:O	1:A:4935:LEU:HB2	2.19	0.41
1:C:485:SER:O	1:C:488:LEU:HB3	2.21	0.41
1:C:1293:LEU:HB3	1:C:1584:ARG:HE	1.86	0.41
1:C:1676:LEU:O	1:C:1676:LEU:HD23	2.21	0.41
1:C:1848:LEU:HD12	1:C:1851:MET:SD	2.60	0.41
1:C:2284:ASN:HA	1:C:2287:ALA:HB3	2.02	0.41
1:C:2806:ARG:HB3	1:C:2810:LYS:HE3	2.02	0.41
1:C:4034:ASN:HD21	1:C:4040:ILE:CG2	2.32	0.41
1:C:4174:PHE:HA	1:C:4177:TYR:CD2	2.56	0.41
1:C:4813:LEU:HD12	1:C:4814:LEU:N	2.35	0.41
1:C:4875:LYS:O	1:C:4877:ASP:N	2.54	0.41
1:C:5011:TRP:O	1:C:5014:TYR:HB3	2.20	0.41
2:D:92:PRO:HA	2:D:93:PRO:HD3	1.91	0.41
1:E:165:VAL:HG13	1:E:204:PRO:HD3	2.02	0.41
1:E:537:CYS:HB3	1:E:571:SER:HB3	2.03	0.41
1:E:580:GLU:HB3	1:E:620:LEU:HD11	2.03	0.41
1:E:590:LEU:HD13	1:E:599:VAL:HB	2.03	0.41
1:E:910:PHE:CG	1:E:918:ARG:HB3	2.55	0.41
1:E:1616:GLU:HG3	1:E:1617:THR:HG23	2.02	0.41
1:E:1944:GLU:HA	1:E:1947:CYS:SG	2.61	0.41
1:E:2114:PRO:O	1:E:3704:HIS:NE2	2.40	0.41
1:E:2142:TYR:CD2	1:E:2197:LEU:HD12	2.55	0.41
1:E:2284:ASN:HA	1:E:2287:ALA:HB3	2.02	0.41
1:E:3732:SER:HB2	1:E:3766:GLN:HB3	2.03	0.41
1:E:4666:VAL:HA	1:E:4669:VAL:HG12	2.03	0.41
2:F:16:PRO:HG3	2:F:106:LEU:HD21	2.02	0.41
1:G:39:ALA:HB3	1:G:137:LEU:HD11	2.03	0.41
1:G:515:TRP:HA	1:G:518:ILE:HD12	2.02	0.41
1:G:843:SER:HA	1:G:1197:GLY:HA2	2.03	0.41
1:G:1077:ALA:HB3	1:G:1189:LEU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1819:VAL:HG22	1:G:1926:LEU:HD13	2.02	0.41
1:G:1937:LEU:HD11	1:G:2115:GLU:OE1	2.21	0.41
1:G:2293:GLN:O	1:G:2296:GLU:HG2	2.21	0.41
1:G:3659:ALA:O	1:G:3663:LEU:HG	2.20	0.41
1:G:3718:GLU:HG3	1:G:3719:ASP:N	2.36	0.41
1:G:3722:TYR:HE2	1:G:3797:THR:HG22	1.86	0.41
1:G:4234:PHE:CZ	1:G:4988:TYR:HB2	2.55	0.41
1:A:356:TRP:O	1:A:378:LEU:HA	2.21	0.41
1:A:758:ARG:HD3	1:A:761:GLY:HA2	2.02	0.41
1:A:856:VAL:O	1:A:991:ASN:ND2	2.48	0.41
1:A:1094:ALA:HB1	1:A:1143:TRP:CZ3	2.56	0.41
1:A:1230:MET:HB2	1:A:1828:ASP:OD1	2.20	0.41
1:A:1275:ARG:HG2	1:A:1564:PHE:CD2	2.56	0.41
1:A:1585:LYS:HD3	1:A:1596:GLU:OE2	2.20	0.41
1:A:2284:ASN:HA	1:A:2287:ALA:HB3	2.02	0.41
1:A:2335:LEU:HB2	1:A:2432:LEU:HD11	2.03	0.41
1:A:3984:ARG:O	1:A:3984:ARG:HG2	2.21	0.41
1:A:3989:VAL:CB	1:A:4047:MET:HE1	2.44	0.41
1:A:4062:PHE:O	1:A:4170:ILE:HG21	2.20	0.41
1:A:4118:ASP:O	1:A:4120:ASN:N	2.53	0.41
1:C:145:ALA:HA	1:C:175:SER:HB3	2.01	0.41
1:C:1077:ALA:HB3	1:C:1189:LEU:HB3	2.03	0.41
1:C:1527:MET:HE2	1:C:1529:PHE:HE1	1.85	0.41
1:C:2299:VAL:O	1:C:2360:LYS:HE2	2.20	0.41
1:C:2745:VAL:CG2	1:C:2818:ALA:HB2	2.50	0.41
1:C:2754:PHE:CZ	1:C:2930:LEU:HD23	2.56	0.41
1:C:3888:LEU:HA	1:C:3888:LEU:HD23	1.84	0.41
1:C:4666:VAL:HA	1:C:4669:VAL:HG12	2.03	0.41
1:C:4837:LEU:O	1:C:4840:THR:OG1	2.35	0.41
1:E:67:PHE:HA	1:E:110:ARG:O	2.21	0.41
1:E:69:LEU:HD13	1:E:101:LEU:HD11	2.01	0.41
1:E:246:TYR:CE2	1:E:373:LYS:HD3	2.55	0.41
1:E:684:VAL:HG22	1:E:781:VAL:HG13	2.02	0.41
1:E:2773:ASN:HB3	1:E:2775:TRP:CD1	2.56	0.41
1:E:2822:THR:HG1	1:E:2938:THR:HG1	1.62	0.41
1:E:4238:CYS:O	1:E:4242:ILE:HG13	2.20	0.41
1:E:4914:VAL:O	1:E:4918:ILE:HG13	2.21	0.41
1:G:1287:LEU:HD13	1:G:1556:PRO:HD3	2.02	0.41
1:G:1654:SER:HB2	1:G:1704:PRO:HB3	2.02	0.41
1:G:1965:TYR:CE1	1:G:2063:LEU:HD11	2.56	0.41
1:G:2186:MET:HE2	1:G:2186:MET:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2349:ASN:O	1:G:2353:VAL:HG23	2.20	0.41
1:G:2761:TYR:CZ	1:G:2862:LEU:HD13	2.55	0.41
1:G:3976:ASN:O	1:G:3979:SER:HB3	2.20	0.41
1:G:4796:MET:HG3	1:G:4797:VAL:N	2.35	0.41
1:A:78:LEU:HD12	1:A:81:MET:SD	2.61	0.41
1:A:78:LEU:O	1:A:81:MET:HG2	2.21	0.41
1:A:121:LEU:HD12	1:A:136:GLY:HA3	2.03	0.41
1:A:178:ARG:CZ	1:G:2456:ILE:HD11	2.51	0.41
1:A:485:SER:O	1:A:488:LEU:HB3	2.21	0.41
1:A:572:PRO:O	1:A:575:LEU:HB2	2.19	0.41
1:A:582:HIS:O	1:A:585:SER:HB2	2.20	0.41
1:A:642:THR:OG1	1:A:1617:THR:HG21	2.20	0.41
1:A:670:GLU:O	1:A:787:VAL:HG13	2.20	0.41
1:A:1077:ALA:HB3	1:A:1189:LEU:HB3	2.03	0.41
1:A:1110:ARG:HB2	1:A:1113:VAL:HG23	2.02	0.41
1:A:1237:TRP:CD1	1:A:1611:HIS:HA	2.56	0.41
1:A:1457:TYR:O	1:A:1458:HIS:CG	2.74	0.41
1:A:1586:ASN:O	1:A:1588:ALA:N	2.49	0.41
1:A:1679:ASN:HB3	1:A:1799:SER:H	1.86	0.41
1:A:2114:PRO:O	1:A:3704:HIS:NE2	2.40	0.41
1:A:2204:HIS:ND1	1:A:2250:MET:SD	2.94	0.41
1:A:2456:ILE:HD11	1:C:178:ARG:CZ	2.51	0.41
1:A:2554:LEU:HD11	1:A:2595:LEU:HA	2.03	0.41
1:A:2887:GLY:O	1:A:2891:LYS:HG3	2.20	0.41
1:A:4036:VAL:HG12	1:A:4037:ASN:N	2.36	0.41
1:A:4580:TYR:HB2	1:A:4631:PHE:CD1	2.53	0.41
1:A:4636:THR:OG1	1:A:4639:MET:HE2	2.21	0.41
1:A:4863:TYR:HD2	1:A:4876:CYS:SG	2.44	0.41
1:A:4876:CYS:HA	1:A:4882:CYS:HB3	2.03	0.41
1:A:4944:ARG:O	1:A:4947:GLN:HB2	2.20	0.41
1:C:454:PRO:HA	1:C:455:PRO:HD3	1.86	0.41
1:C:684:VAL:HG22	1:C:781:VAL:HG13	2.03	0.41
1:C:856:VAL:O	1:C:991:ASN:ND2	2.50	0.41
1:C:1024:TYR:CD1	1:C:1032:LYS:HG2	2.56	0.41
1:C:1072:VAL:HG22	1:C:1196:PRO:HD3	2.03	0.41
1:C:1230:MET:HB2	1:C:1828:ASP:OD1	2.21	0.41
1:C:1275:ARG:HG2	1:C:1564:PHE:CD2	2.56	0.41
1:C:1945:TYR:O	1:C:1949:GLN:HG2	2.21	0.41
1:C:2359:ARG:CZ	1:E:179:TYR:OH	2.68	0.41
1:C:2420:HIS:ND1	1:C:2423:MET:SD	2.76	0.41
1:C:2430:ILE:HG23	1:C:2501:SER:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3983:SER:C	1:C:3985:LEU:H	2.28	0.41
1:C:3984:ARG:O	1:C:3984:ARG:HG2	2.21	0.41
1:C:4062:PHE:O	1:C:4170:ILE:HG21	2.20	0.41
1:C:4887:MET:HA	1:C:4891:VAL:CG2	2.51	0.41
1:C:4914:VAL:O	1:C:4918:ILE:HG13	2.21	0.41
1:C:4991:PHE:CE2	1:C:4995:LEU:HD11	2.56	0.41
1:C:5004:THR:O	1:C:5007:GLU:HG2	2.20	0.41
1:E:121:LEU:HD12	1:E:136:GLY:HA3	2.02	0.41
1:E:671:VAL:HG12	1:E:673:PRO:HG3	2.03	0.41
1:E:1077:ALA:HB3	1:E:1189:LEU:HB3	2.03	0.41
1:E:1275:ARG:HG2	1:E:1564:PHE:CD2	2.56	0.41
1:E:1288:PHE:O	1:E:1603:VAL:HG13	2.21	0.41
1:E:1514:LEU:C	1:E:1515:VAL:HG23	2.45	0.41
1:E:1676:LEU:HD23	1:E:1676:LEU:O	2.21	0.41
1:E:1719:HIS:CG	1:E:1802:ILE:HG23	2.55	0.41
1:E:1829:PRO:HB3	1:E:1834:VAL:H	1.86	0.41
1:E:2754:PHE:CZ	1:E:2930:LEU:HD23	2.56	0.41
1:E:3888:LEU:HA	1:E:3888:LEU:HD23	1.84	0.41
1:E:3981:ALA:HA	1:E:3986:TRP:HH2	1.86	0.41
1:E:4047:MET:HG3	1:E:4048:LEU:N	2.35	0.41
1:E:4566:ALA:HA	1:E:4569:LEU:HD12	2.03	0.41
1:E:4570:ALA:HB2	1:E:4650:HIS:CE1	2.56	0.41
1:E:4875:LYS:O	1:E:4877:ASP:N	2.54	0.41
1:E:4977:THR:HA	1:E:4981:GLU:OE1	2.21	0.41
1:E:5022:PHE:HD1	1:E:5022:PHE:HA	1.75	0.41
1:G:607:CYS:HB2	1:G:1672:ALA:HB1	2.02	0.41
1:G:635:THR:OG1	1:G:1638:ALA:O	2.32	0.41
1:G:750:LEU:O	1:G:751:SER:OG	2.33	0.41
1:G:826:ILE:O	1:G:828:GLU:N	2.54	0.41
1:G:1094:ALA:HB1	1:G:1143:TRP:CZ3	2.56	0.41
1:G:1768:THR:C	1:G:1769:THR:HG1	2.18	0.41
1:G:2101:MET:SD	1:G:2104:ARG:HD2	2.61	0.41
1:G:2515:GLN:O	1:G:2518:LEU:HB3	2.20	0.41
1:G:2745:VAL:CG2	1:G:2818:ALA:HB2	2.51	0.41
1:G:3957:VAL:O	1:G:3961:VAL:HG23	2.20	0.41
1:G:4063:ASP:HA	1:G:4170:ILE:HG12	2.03	0.41
1:G:4722:ARG:O	1:G:4725:LEU:HG	2.21	0.41
1:G:4968:PHE:HB2	1:G:4975:PHE:HD1	1.86	0.41
2:H:44:LYS:HA	2:H:45:PRO:HD3	1.90	0.41
1:A:580:GLU:HB3	1:A:620:LEU:HD11	2.03	0.41
1:A:1087:ARG:HD2	1:A:1223:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1099:GLU:H	1:A:1198:GLN:NE2	2.19	0.41
1:C:426:ARG:NH2	1:C:508:GLY:O	2.54	0.41
1:C:870:ILE:HA	1:C:873:LYS:HB3	2.03	0.41
1:C:1094:ALA:HB1	1:C:1143:TRP:CZ3	2.56	0.41
1:C:1452:TRP:HB3	1:C:1550:PRO:HA	2.03	0.41
1:C:1637:MET:HE3	1:C:1650:ILE:HD13	2.03	0.41
1:C:1937:LEU:O	1:C:1940:CYS:SG	2.69	0.41
1:C:1944:GLU:HA	1:C:1947:CYS:SG	2.61	0.41
1:C:2204:HIS:ND1	1:C:2250:MET:SD	2.94	0.41
1:C:2456:ILE:HD11	1:E:178:ARG:HH22	1.87	0.41
1:C:3901:ASN:O	1:C:3905:THR:HG22	2.21	0.41
1:C:4108:ILE:O	1:C:4111:LEU:HB3	2.21	0.41
1:C:4118:ASP:O	1:C:4120:ASN:N	2.54	0.41
1:E:485:SER:O	1:E:488:LEU:HB3	2.21	0.41
1:E:636:ASN:HD21	2:F:35:LYS:HD3	1.85	0.41
1:E:1094:ALA:HB1	1:E:1143:TRP:CZ3	2.56	0.41
1:E:1293:LEU:HB3	1:E:1584:ARG:HE	1.87	0.41
1:E:1959:ALA:O	1:E:1962:ALA:HB3	2.22	0.41
1:E:1966:VAL:O	1:E:1966:VAL:HG12	2.21	0.41
1:E:3712:GLU:O	1:E:3713:LYS:HD2	2.21	0.41
1:E:4036:VAL:HG12	1:E:4037:ASN:N	2.36	0.41
1:E:4137:ARG:HD2	1:E:4177:TYR:CE2	2.56	0.41
1:E:4802:GLY:HA2	1:E:4809:PHE:HB2	2.02	0.41
1:E:4892:ARG:NH1	1:G:4896:GLY:HA3	2.35	0.41
1:E:4978:HIS:ND1	1:E:4982:GLU:OE1	2.53	0.41
1:G:175:SER:OG	1:G:176:SER:N	2.53	0.41
1:G:1275:ARG:HG2	1:G:1564:PHE:CD2	2.56	0.41
1:G:1779:PRO:HA	1:G:1780:PRO:HD3	1.79	0.41
1:G:2251:PHE:HA	1:G:2254:LEU:HG	2.03	0.41
1:G:2550:LEU:O	1:G:2554:LEU:N	2.54	0.41
1:G:2773:ASN:HB3	1:G:2775:TRP:CD1	2.56	0.41
1:G:3662:ILE:HG22	1:G:3662:ILE:O	2.21	0.41
1:G:3838:THR:O	1:G:3839:CYS:SG	2.76	0.41
1:G:4569:LEU:O	1:G:4573:ILE:HG13	2.20	0.41
1:G:4662:ASN:O	1:G:4667:PRO:HD3	2.20	0.41
2:H:31:GLU:HG2	2:H:96:THR:HB	2.02	0.41
1:A:272:SER:HB2	1:A:335:GLY:HA3	2.03	0.40
1:A:2550:LEU:O	1:A:2554:LEU:N	2.54	0.40
1:A:2754:PHE:CZ	1:A:2930:LEU:HD23	2.56	0.40
1:A:4174:PHE:HA	1:A:4177:TYR:CD2	2.56	0.40
1:C:111:HIS:CD2	1:C:113:HIS:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1679:ASN:HB3	1:C:1799:SER:H	1.86	0.40
1:C:1768:THR:O	1:C:1769:THR:OG1	2.22	0.40
1:C:2186:MET:HA	1:C:2186:MET:HE2	2.03	0.40
1:C:2550:LEU:O	1:C:2554:LEU:N	2.54	0.40
1:C:3933:PHE:O	1:C:3937:TYR:HD2	2.03	0.40
1:C:4086:GLY:C	1:C:4087:LEU:HD12	2.46	0.40
1:E:1603:VAL:HG12	1:E:1604:SER:O	2.20	0.40
1:E:2204:HIS:ND1	1:E:2250:MET:SD	2.94	0.40
1:E:2251:PHE:HA	1:E:2254:LEU:HG	2.03	0.40
1:E:4118:ASP:O	1:E:4120:ASN:N	2.54	0.40
1:E:4823:LEU:HG	1:E:4826:ILE:HD12	2.02	0.40
1:E:4932:ILE:O	1:E:4935:LEU:HB3	2.20	0.40
2:F:28:GLY:HA2	2:F:99:PHE:CD1	2.57	0.40
1:G:67:PHE:HA	1:G:110:ARG:O	2.21	0.40
1:G:78:LEU:HD12	1:G:81:MET:SD	2.61	0.40
1:G:111:HIS:CD2	1:G:113:HIS:HB3	2.56	0.40
1:G:2281:ILE:HD11	1:G:2337:PHE:HB3	2.02	0.40
1:G:3839:CYS:SG	1:G:3840:SER:N	2.94	0.40
1:G:3981:ALA:HA	1:G:3986:TRP:HH2	1.86	0.40
1:G:4691:GLN:HA	1:G:4692:PRO:HD2	1.88	0.40
1:G:4847:VAL:HG11	1:G:4924:VAL:HG22	2.02	0.40
1:G:4978:HIS:ND1	1:G:4982:GLU:OE1	2.54	0.40
1:A:165:VAL:HG13	1:A:204:PRO:HD3	2.03	0.40
1:A:826:ILE:O	1:A:828:GLU:N	2.54	0.40
1:A:843:SER:HA	1:A:1197:GLY:HA2	2.03	0.40
1:A:1046:LEU:HA	1:A:1049:TYR:HB2	2.04	0.40
1:A:1603:VAL:HG12	1:A:1604:SER:O	2.22	0.40
1:A:1676:LEU:O	1:A:1676:LEU:HD23	2.21	0.40
1:A:1685:LEU:HA	1:A:1685:LEU:HD23	1.76	0.40
1:A:1829:PRO:HB3	1:A:1834:VAL:H	1.86	0.40
1:A:1944:GLU:HA	1:A:1947:CYS:SG	2.61	0.40
1:A:2199:ARG:NE	1:A:2249:SER:OG	2.52	0.40
1:A:2251:PHE:HA	1:A:2254:LEU:HG	2.03	0.40
1:A:3712:GLU:O	1:A:3713:LYS:HD2	2.21	0.40
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	2.03	0.40
1:A:3965:LEU:HD13	1:A:4026:MET:HE1	2.03	0.40
1:A:4666:VAL:HA	1:A:4669:VAL:HG12	2.02	0.40
1:A:4839:MET:CB	1:G:4823:LEU:CD1	2.99	0.40
1:C:123:THR:HB	1:C:125:ARG:HH21	1.86	0.40
1:C:905:PRO:HB2	1:C:917:GLU:HB3	2.04	0.40
1:C:1457:TYR:O	1:C:1458:HIS:ND1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2449:GLU:O	1:C:2452:ARG:HB2	2.20	0.40
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.21	0.40
1:E:78:LEU:O	1:E:81:MET:HG2	2.22	0.40
1:E:224:HIS:N	1:E:229:GLU:O	2.42	0.40
1:E:321:GLU:HG2	1:E:323:LEU:HG	2.03	0.40
1:E:828:GLU:OE2	1:E:831:ARG:HA	2.20	0.40
1:E:1679:ASN:HB3	1:E:1799:SER:H	1.86	0.40
1:E:1748:PHE:HA	1:E:1749:PRO:HD2	1.76	0.40
1:E:2198:MET:HB3	1:E:2239:PHE:HE1	1.86	0.40
1:E:2199:ARG:NE	1:E:2249:SER:OG	2.52	0.40
1:E:2335:LEU:HB2	1:E:2432:LEU:HD11	2.02	0.40
1:E:2449:GLU:O	1:E:2452:ARG:HB2	2.20	0.40
1:E:3938:SER:HB2	1:E:4002:LYS:HZ2	1.83	0.40
1:E:3985:LEU:O	1:E:3989:VAL:HG23	2.21	0.40
1:E:4175:ARG:O	1:E:4178:LEU:HB3	2.21	0.40
1:E:4582:VAL:HB	1:E:4628:VAL:HG12	2.03	0.40
1:E:4669:VAL:O	1:E:4672:LYS:HB3	2.22	0.40
1:G:321:GLU:HG2	1:G:323:LEU:HG	2.03	0.40
1:G:356:TRP:O	1:G:378:LEU:HA	2.21	0.40
1:G:426:ARG:NH2	1:G:508:GLY:O	2.54	0.40
1:G:497:TYR:HB2	1:G:515:TRP:CH2	2.57	0.40
1:G:1293:LEU:HB3	1:G:1584:ARG:HE	1.86	0.40
1:G:1945:TYR:O	1:G:1949:GLN:HG2	2.21	0.40
1:G:2210:VAL:O	1:G:2214:VAL:HG23	2.22	0.40
1:G:4770:SER:OG	1:G:4771:ILE:N	2.53	0.40
1:A:131:LEU:HB2	1:G:2460:LEU:HD21	2.02	0.40
1:A:321:GLU:HG2	1:A:323:LEU:HG	2.03	0.40
1:A:598:LYS:HD3	1:A:598:LYS:HA	1.87	0.40
1:A:1841:VAL:O	1:A:1845:VAL:HG23	2.21	0.40
1:A:2293:GLN:CA	1:A:2296:GLU:HG2	2.47	0.40
1:A:3775:ALA:HA	1:A:3778:MET:HG2	2.03	0.40
1:A:3886:ARG:O	1:A:3890:LEU:HD13	2.21	0.40
1:A:3927:GLN:HE21	1:A:3991:GLY:HA3	1.87	0.40
1:A:4175:ARG:O	1:A:4178:LEU:HB3	2.21	0.40
1:A:4578:LEU:CD1	1:C:4880:MET:CA	2.83	0.40
1:A:4675:LYS:O	1:A:4679:ARG:HG2	2.21	0.40
2:B:31:GLU:HG2	2:B:96:THR:HB	2.02	0.40
1:C:39:ALA:HB3	1:C:137:LEU:HD11	2.03	0.40
1:C:175:SER:OG	1:C:176:SER:N	2.53	0.40
1:C:216:GLY:HA3	1:C:264:PRO:CD	2.50	0.40
1:C:831:ARG:O	1:C:837:PRO:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1133:HIS:CE1	1:C:1134:LEU:HG	2.55	0.40
1:C:1585:LYS:HD3	1:C:1596:GLU:OE2	2.21	0.40
1:C:3805:LEU:HB3	1:C:3890:LEU:HB3	2.03	0.40
1:C:4183:ILE:HD13	1:C:4193:ILE:HD13	2.03	0.40
1:C:4570:ALA:HB2	1:C:4650:HIS:CE1	2.57	0.40
1:C:4669:VAL:O	1:C:4672:LYS:HB3	2.21	0.40
1:E:57:ASN:OD1	1:E:308:HIS:ND1	2.54	0.40
1:E:102:LEU:HD23	1:E:162:LYS:HA	2.02	0.40
1:E:2281:ILE:HD11	1:E:2337:PHE:CG	2.56	0.40
1:E:2424:SER:HA	1:E:2427:ALA:HB3	2.02	0.40
1:E:2550:LEU:O	1:E:2554:LEU:N	2.54	0.40
1:E:2558:VAL:O	1:E:2561:LEU:HG	2.21	0.40
1:E:2858:GLN:HA	1:E:2859:PRO:HD2	1.93	0.40
1:E:3805:LEU:HB3	1:E:3890:LEU:HB3	2.03	0.40
1:E:3945:GLU:O	1:E:3948:LYS:HB2	2.22	0.40
1:E:3983:SER:C	1:E:3985:LEU:H	2.28	0.40
1:E:4086:GLY:C	1:E:4087:LEU:HD12	2.46	0.40
1:E:4108:ILE:O	1:E:4111:LEU:HB3	2.21	0.40
1:E:4991:PHE:CE2	1:E:4995:LEU:HD11	2.56	0.40
1:G:590:LEU:HD13	1:G:599:VAL:HB	2.04	0.40
1:G:725:HIS:ND1	1:G:725:HIS:O	2.54	0.40
1:G:870:ILE:HA	1:G:873:LYS:HB3	2.03	0.40
1:G:905:PRO:HB2	1:G:917:GLU:HB3	2.03	0.40
1:G:1288:PHE:O	1:G:1603:VAL:HG13	2.21	0.40
1:G:1681:VAL:O	1:G:1684:ALA:HB3	2.21	0.40
1:G:2207:VAL:O	1:G:2211:MET:HG2	2.22	0.40
1:G:2251:PHE:CD1	1:G:2254:LEU:HD12	2.57	0.40
1:G:2554:LEU:HD11	1:G:2595:LEU:HA	2.04	0.40
1:G:4820:VAL:HG12	1:G:4821:LYS:N	2.36	0.40
1:A:426:ARG:NH2	1:A:508:GLY:O	2.54	0.40
1:A:1647:CYS:O	1:A:1648:MET:HG3	2.20	0.40
1:A:1681:VAL:O	1:A:1684:ALA:HB3	2.22	0.40
1:A:1958:LEU:HD11	1:A:3657:TYR:CE2	2.57	0.40
1:A:2101:MET:SD	1:A:2104:ARG:HD2	2.61	0.40
1:A:2251:PHE:CD1	1:A:2254:LEU:HD12	2.57	0.40
1:A:2515:GLN:O	1:A:2518:LEU:HB3	2.20	0.40
1:A:3794:VAL:O	1:A:3797:THR:OG1	2.29	0.40
1:A:3838:THR:C	1:A:3839:CYS:HG	2.29	0.40
1:A:4991:PHE:CE2	1:A:4995:LEU:HD11	2.56	0.40
1:C:120:CYS:HA	1:C:135:VAL:HA	2.04	0.40
1:C:1216:ILE:HG22	1:C:1217:CYS:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2131:LEU:O	1:C:2134:LEU:HB3	2.22	0.40
1:C:2554:LEU:HD11	1:C:2595:LEU:HA	2.03	0.40
1:C:2773:ASN:HB3	1:C:2775:TRP:CD1	2.56	0.40
1:C:3838:THR:O	1:C:3839:CYS:SG	2.76	0.40
1:C:3922:TYR:HA	1:C:3925:ARG:HG2	2.03	0.40
1:C:3989:VAL:O	1:C:3993:LEU:HG	2.22	0.40
1:C:4818:MET:O	1:C:4820:VAL:HA	2.22	0.40
1:E:1024:TYR:CD1	1:E:1032:LYS:HG2	2.56	0.40
1:E:1457:TYR:O	1:E:1458:HIS:ND1	2.55	0.40
1:E:1719:HIS:CD2	1:E:1800:PRO:HG2	2.57	0.40
1:E:1845:VAL:HG13	1:E:1854:PHE:HE2	1.85	0.40
1:E:2251:PHE:CD1	1:E:2254:LEU:HD12	2.57	0.40
1:E:2299:VAL:O	1:E:2360:LYS:HE2	2.20	0.40
1:E:4733:GLY:O	1:E:4737:ILE:HG12	2.21	0.40
1:E:4995:LEU:HD21	1:E:5007:GLU:HB2	2.02	0.40
1:G:669:ASP:CB	1:G:788:LYS:NZ	2.83	0.40
1:G:1719:HIS:CD2	1:G:1800:PRO:HG2	2.56	0.40
1:G:1944:GLU:HA	1:G:1947:CYS:SG	2.61	0.40
1:G:1966:VAL:O	1:G:1966:VAL:HG12	2.21	0.40
1:G:2204:HIS:ND1	1:G:2250:MET:SD	2.94	0.40
1:G:3801:GLY:HA3	1:G:3887:PHE:HE1	1.86	0.40
1:G:4989:MET:HG3	1:G:4990:PHE:N	2.37	0.40
1:A:33:LEU:HD23	1:A:35:LEU:HD23	2.03	0.40
1:A:1719:HIS:CD2	1:A:1800:PRO:HG2	2.56	0.40
1:A:3901:ASN:O	1:A:3905:THR:HG22	2.21	0.40
1:A:4995:LEU:HD21	1:A:5007:GLU:HB2	2.04	0.40
1:A:5011:TRP:O	1:A:5014:TYR:HB3	2.20	0.40
1:C:78:LEU:O	1:C:81:MET:HG2	2.22	0.40
1:C:248:GLU:HG2	1:C:252:VAL:HG11	2.03	0.40
1:C:321:GLU:HG2	1:C:323:LEU:HG	2.03	0.40
1:C:590:LEU:HD13	1:C:599:VAL:HB	2.04	0.40
1:C:1073:ARG:O	1:C:1074:ILE:HG13	2.22	0.40
1:C:1275:ARG:HG2	1:C:1564:PHE:HB3	2.03	0.40
1:C:1681:VAL:O	1:C:1684:ALA:HB3	2.22	0.40
1:C:1694:LEU:HB3	1:C:1715:LEU:HD12	2.04	0.40
1:C:2515:GLN:O	1:C:2518:LEU:HB3	2.20	0.40
1:C:3712:GLU:O	1:C:3713:LYS:HD2	2.21	0.40
1:C:3718:GLU:HG3	1:C:3719:ASP:N	2.35	0.40
1:C:4175:ARG:O	1:C:4178:LEU:HB3	2.21	0.40
1:C:4977:THR:HA	1:C:4981:GLU:OE1	2.21	0.40
1:E:216:GLY:HA3	1:E:264:PRO:CD	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:426:ARG:NH2	1:E:508:GLY:O	2.54	0.40
1:E:598:LYS:HD3	1:E:598:LYS:HA	1.87	0.40
1:E:975:VAL:HG21	1:E:1044:ARG:CB	2.47	0.40
1:E:1046:LEU:HA	1:E:1049:TYR:HB2	2.04	0.40
1:E:1230:MET:HB2	1:E:1828:ASP:OD1	2.22	0.40
1:E:2456:ILE:HD11	1:G:178:ARG:CZ	2.52	0.40
1:E:3817:LEU:HD11	1:E:3821:LYS:HE2	2.02	0.40
1:E:3885:PHE:HE1	1:E:3919:THR:HG1	1.65	0.40
1:E:4058:ILE:HG13	1:E:4059:LEU:N	2.35	0.40
1:G:123:THR:HB	1:G:125:ARG:HH21	1.86	0.40
1:G:737:LEU:HB3	1:G:738:LEU:H	1.50	0.40
1:G:831:ARG:O	1:G:837:PRO:HA	2.22	0.40
1:G:1201:HIS:CD2	1:G:1202:LEU:N	2.89	0.40
1:G:1719:HIS:CG	1:G:1802:ILE:HG23	2.56	0.40
1:G:3951:PHE:CE2	1:G:3955:MET:HE3	2.56	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	3483/5037 (69%)	3132 (90%)	258 (7%)	93 (3%)	4	25
1	C	3483/5037 (69%)	3133 (90%)	254 (7%)	96 (3%)	4	24
1	E	3483/5037 (69%)	3134 (90%)	255 (7%)	94 (3%)	4	25
1	G	3483/5037 (69%)	3137 (90%)	252 (7%)	94 (3%)	4	25
2	B	105/108 (97%)	95 (90%)	9 (9%)	1 (1%)	12	48
2	D	105/108 (97%)	95 (90%)	9 (9%)	1 (1%)	12	48
2	F	105/108 (97%)	96 (91%)	8 (8%)	1 (1%)	12	48
2	H	105/108 (97%)	97 (92%)	8 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	14352/20580 (70%)	12919 (90%)	1053 (7%)	380 (3%)	6	25

All (380) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	806	PRO
1	A	900	ASN
1	A	914	PRO
1	A	916	PRO
1	A	971	ASP
1	A	1211	LEU
1	A	1216	ILE
1	A	1459	GLN
1	A	1763	PRO
1	A	1767	VAL
1	A	2341	VAL
1	A	3714	SER
1	A	4012	LEU
1	A	4037	ASN
1	A	4083	ASP
1	A	4084	PRO
1	A	4820	VAL
1	A	4868	ASP
1	A	4904	PRO
1	C	806	PRO
1	C	914	PRO
1	C	916	PRO
1	C	971	ASP
1	C	1211	LEU
1	C	1216	ILE
1	C	1459	GLN
1	C	1763	PRO
1	C	1767	VAL
1	C	2341	VAL
1	C	3714	SER
1	C	4012	LEU
1	C	4037	ASN
1	C	4083	ASP
1	C	4084	PRO
1	C	4820	VAL
1	C	4868	ASP
1	C	4904	PRO

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Mol	Chain	Res	Type
1	E	806	PRO
1	E	914	PRO
1	E	916	PRO
1	E	971	ASP
1	E	1211	LEU
1	E	1216	ILE
1	E	1459	GLN
1	E	1763	PRO
1	E	1767	VAL
1	E	2341	VAL
1	E	4012	LEU
1	E	4037	ASN
1	E	4083	ASP
1	E	4084	PRO
1	E	4820	VAL
1	E	4868	ASP
1	E	4904	PRO
1	G	806	PRO
1	G	914	PRO
1	G	916	PRO
1	G	971	ASP
1	G	1211	LEU
1	G	1216	ILE
1	G	1459	GLN
1	G	1763	PRO
1	G	1767	VAL
1	G	2341	VAL
1	G	3714	SER
1	G	3985	LEU
1	G	4012	LEU
1	G	4037	ASN
1	G	4083	ASP
1	G	4084	PRO
1	G	4771	ILE
1	G	4820	VAL
1	G	4868	ASP
1	G	4904	PRO
1	A	334	MET
1	A	385	ASP
1	A	767	VAL
1	A	770	ALA
1	A	826	ILE

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Mol	Chain	Res	Type
1	A	895	PRO
1	A	1483	VAL
1	A	1488	LYS
1	A	1582	SER
1	A	3844	LEU
1	A	3941	ASP
1	A	3944	GLU
1	A	4119	GLU
1	A	4770	SER
1	A	4771	ILE
1	A	4772	ASP
1	A	4870	ASP
1	A	4985	LEU
1	A	5027	CYS
1	C	334	MET
1	C	385	ASP
1	C	767	VAL
1	C	770	ALA
1	C	826	ILE
1	C	895	PRO
1	C	900	ASN
1	C	1483	VAL
1	C	1488	LYS
1	C	1582	SER
1	C	3844	LEU
1	C	3941	ASP
1	C	3944	GLU
1	C	4119	GLU
1	C	4770	SER
1	C	4771	ILE
1	C	4772	ASP
1	C	4870	ASP
1	C	4985	LEU
1	C	5027	CYS
1	E	334	MET
1	E	385	ASP
1	E	767	VAL
1	E	770	ALA
1	E	826	ILE
1	E	895	PRO
1	E	900	ASN
1	E	1483	VAL

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Mol	Chain	Res	Type
1	E	1488	LYS
1	E	1582	SER
1	E	3714	SER
1	E	3844	LEU
1	E	3944	GLU
1	E	4119	GLU
1	E	4770	SER
1	E	4771	ILE
1	E	4772	ASP
1	E	4870	ASP
1	E	4985	LEU
1	E	5027	CYS
1	G	334	MET
1	G	385	ASP
1	G	767	VAL
1	G	770	ALA
1	G	826	ILE
1	G	895	PRO
1	G	900	ASN
1	G	1483	VAL
1	G	1488	LYS
1	G	1582	SER
1	G	4119	GLU
1	G	4870	ASP
1	G	4984	ASN
1	G	5027	CYS
1	A	30	LYS
1	A	611	GLY
1	A	682	LEU
1	A	690	GLU
1	A	834	PRO
1	A	1206	GLN
1	A	1254	HIS
1	A	1280	GLN
1	A	1606	SER
1	A	1772	ARG
1	A	1834	VAL
1	A	1857	GLU
1	A	2246	ASN
1	A	2466	LEU
1	A	3719	ASP
1	A	4158	PRO

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Mol	Chain	Res	Type
1	A	4208	PRO
1	A	4867	GLU
1	A	4876	CYS
1	A	4893	ALA
1	C	30	LYS
1	C	611	GLY
1	C	682	LEU
1	C	690	GLU
1	C	834	PRO
1	C	1206	GLN
1	C	1254	HIS
1	C	1280	GLN
1	C	1512	THR
1	C	1606	SER
1	C	1772	ARG
1	C	1834	VAL
1	C	1857	GLU
1	C	2246	ASN
1	C	2466	LEU
1	C	3719	ASP
1	C	4158	PRO
1	C	4208	PRO
1	C	4867	GLU
1	C	4876	CYS
1	C	4893	ALA
1	E	30	LYS
1	E	611	GLY
1	E	682	LEU
1	E	690	GLU
1	E	834	PRO
1	E	1206	GLN
1	E	1254	HIS
1	E	1280	GLN
1	E	1462	MET
1	E	1606	SER
1	E	1772	ARG
1	E	1834	VAL
1	E	1857	GLU
1	E	2246	ASN
1	E	2466	LEU
1	E	3719	ASP
1	E	3941	ASP

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Mol	Chain	Res	Type
1	E	4158	PRO
1	E	4208	PRO
1	E	4867	GLU
1	E	4876	CYS
1	G	30	LYS
1	G	611	GLY
1	G	682	LEU
1	G	690	GLU
1	G	834	PRO
1	G	1206	GLN
1	G	1254	HIS
1	G	1280	GLN
1	G	1606	SER
1	G	1747	LEU
1	G	1772	ARG
1	G	1834	VAL
1	G	1857	GLU
1	G	2246	ASN
1	G	2466	LEU
1	G	3659	ALA
1	G	3719	ASP
1	G	3844	LEU
1	G	3944	GLU
1	G	4158	PRO
1	G	4208	PRO
1	G	4772	ASP
1	G	4867	GLU
1	G	4876	CYS
1	G	4893	ALA
1	A	56	GLN
1	A	701	GLY
1	A	827	LYS
1	A	852	VAL
1	A	885	THR
1	A	1095	VAL
1	A	1284	VAL
1	A	1286	MET
1	A	1462	MET
1	A	1747	LEU
1	A	2546	MET
1	A	2826	ALA
1	A	3659	ALA

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Mol	Chain	Res	Type
1	A	4905	ALA
1	C	56	GLN
1	C	701	GLY
1	C	827	LYS
1	C	828	GLU
1	C	852	VAL
1	C	885	THR
1	C	1095	VAL
1	C	1284	VAL
1	C	1286	MET
1	C	1462	MET
1	C	1747	LEU
1	C	2306	GLY
1	C	2546	MET
1	C	2826	ALA
1	C	3659	ALA
1	E	56	GLN
1	E	701	GLY
1	E	827	LYS
1	E	828	GLU
1	E	852	VAL
1	E	885	THR
1	E	1095	VAL
1	E	1284	VAL
1	E	1286	MET
1	E	1747	LEU
1	E	2306	GLY
1	E	2546	MET
1	E	2826	ALA
1	E	3659	ALA
1	E	4905	ALA
1	G	56	GLN
1	G	701	GLY
1	G	720	HIS
1	G	827	LYS
1	G	828	GLU
1	G	852	VAL
1	G	885	THR
1	G	1095	VAL
1	G	1284	VAL
1	G	1286	MET
1	G	1462	MET

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Mol	Chain	Res	Type
1	G	2306	GLY
1	G	2546	MET
1	G	3941	ASP
1	G	4207	MET
1	G	4905	ALA
1	A	298	GLY
1	A	676	THR
1	A	720	HIS
1	A	802	PHE
1	A	828	GLU
1	A	1139	PHE
1	A	1182	ILE
1	A	1550	PRO
1	A	2109	ASP
1	A	4207	MET
1	C	298	GLY
1	C	676	THR
1	C	720	HIS
1	C	802	PHE
1	C	1139	PHE
1	C	1182	ILE
1	C	1550	PRO
1	C	2109	ASP
1	C	4207	MET
1	C	4905	ALA
1	E	298	GLY
1	E	676	THR
1	E	720	HIS
1	E	802	PHE
1	E	908	VAL
1	E	1139	PHE
1	E	1182	ILE
1	E	1550	PRO
1	E	2109	ASP
1	E	4207	MET
1	E	4893	ALA
1	G	298	GLY
1	G	676	THR
1	G	736	HIS
1	G	802	PHE
1	G	1139	PHE
1	G	1182	ILE

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Mol	Chain	Res	Type
1	G	1515	VAL
1	G	1550	PRO
1	G	2109	ASP
1	A	1613	LEU
1	A	2306	GLY
1	C	581	ASN
1	C	1515	VAL
1	C	1613	LEU
1	C	1768	THR
1	E	1515	VAL
1	E	1613	LEU
1	E	1768	THR
1	G	1613	LEU
1	A	908	VAL
1	A	1602	PRO
1	C	908	VAL
1	C	1602	PRO
1	E	1589	PRO
1	E	1602	PRO
1	G	908	VAL
1	G	1589	PRO
1	G	1602	PRO
1	G	3808	GLY
1	A	1589	PRO
1	C	60	PRO
1	C	1589	PRO
1	E	60	PRO
1	A	60	PRO
1	A	438	ILE
1	A	1142	PRO
1	A	1437	VAL
1	C	438	ILE
1	C	1142	PRO
1	C	1437	VAL
1	E	438	ILE
1	E	1142	PRO
1	E	1437	VAL
1	G	60	PRO
1	G	438	ILE
1	G	740	PRO
1	G	1142	PRO
1	G	1437	VAL

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Mol	Chain	Res	Type
1	A	740	PRO
1	C	740	PRO
1	E	740	PRO
1	A	4035	VAL
2	B	7	ILE
2	D	7	ILE
2	F	7	ILE

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	2502/4276 (58%)	2471 (99%)	31 (1%)	63	74
1	C	2504/4276 (59%)	2474 (99%)	30 (1%)	63	74
1	E	2501/4276 (58%)	2470 (99%)	31 (1%)	63	74
1	G	2501/4276 (58%)	2472 (99%)	29 (1%)	63	74
2	B	89/90 (99%)	88 (99%)	1 (1%)	65	75
2	D	89/90 (99%)	88 (99%)	1 (1%)	65	75
2	F	89/90 (99%)	88 (99%)	1 (1%)	65	75
2	H	89/90 (99%)	88 (99%)	1 (1%)	65	75
All	All	10364/17464 (59%)	10239 (99%)	125 (1%)	61	74

All (125) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	46	LEU
1	A	454	PRO
1	A	806	PRO
1	A	865	PRO
1	A	892	THR
1	A	914	PRO
1	A	916	PRO
1	A	928	THR

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Mol	Chain	Res	Type
1	A	939	VAL
1	A	978	THR
1	A	979	PRO
1	A	1055	PRO
1	A	1211	LEU
1	A	1458	HIS
1	A	1459	GLN
1	A	1659	LEU
1	A	2135	LEU
1	A	2518	LEU
1	A	2555	CYS
1	A	2914	LYS
1	A	2925	GLU
1	A	3814	GLN
1	A	3824	LYS
1	A	3835	LEU
1	A	4039	MET
1	A	4082	THR
1	A	4106	PRO
1	A	4207	MET
1	A	4214	LYS
1	A	4215	ARG
1	A	4951	LYS
2	B	34	LYS
1	C	46	LEU
1	C	454	PRO
1	C	806	PRO
1	C	859	VAL
1	C	865	PRO
1	C	892	THR
1	C	914	PRO
1	C	916	PRO
1	C	928	THR
1	C	939	VAL
1	C	978	THR
1	C	979	PRO
1	C	1055	PRO
1	C	1211	LEU
1	C	1458	HIS
1	C	1459	GLN
1	C	2135	LEU
1	C	2518	LEU

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Mol	Chain	Res	Type
1	C	2555	CYS
1	C	2914	LYS
1	C	3814	GLN
1	C	3835	LEU
1	C	4039	MET
1	C	4082	THR
1	C	4106	PRO
1	C	4207	MET
1	C	4214	LYS
1	C	4215	ARG
1	C	4880	MET
1	C	4951	LYS
2	D	34	LYS
1	E	46	LEU
1	E	454	PRO
1	E	806	PRO
1	E	865	PRO
1	E	892	THR
1	E	914	PRO
1	E	916	PRO
1	E	928	THR
1	E	939	VAL
1	E	978	THR
1	E	979	PRO
1	E	1055	PRO
1	E	1211	LEU
1	E	1458	HIS
1	E	1459	GLN
1	E	1513	ASP
1	E	1659	LEU
1	E	2135	LEU
1	E	2518	LEU
1	E	2555	CYS
1	E	2914	LYS
1	E	3814	GLN
1	E	3835	LEU
1	E	4039	MET
1	E	4082	THR
1	E	4106	PRO
1	E	4207	MET
1	E	4214	LYS
1	E	4215	ARG

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Mol	Chain	Res	Type
1	E	4880	MET
1	E	4951	LYS
2	F	34	LYS
1	G	46	LEU
1	G	454	PRO
1	G	806	PRO
1	G	859	VAL
1	G	865	PRO
1	G	892	THR
1	G	914	PRO
1	G	916	PRO
1	G	928	THR
1	G	939	VAL
1	G	978	THR
1	G	979	PRO
1	G	1055	PRO
1	G	1211	LEU
1	G	1458	HIS
1	G	1459	GLN
1	G	1513	ASP
1	G	2135	LEU
1	G	2139	PRO
1	G	2518	LEU
1	G	2555	CYS
1	G	3835	LEU
1	G	4039	MET
1	G	4082	THR
1	G	4106	PRO
1	G	4207	MET
1	G	4215	ARG
1	G	4643	LEU
1	G	4880	MET
2	H	34	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (200) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	113	HIS
1	A	284	HIS
1	A	379	HIS
1	A	380	GLN
1	A	383	HIS

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Mol	Chain	Res	Type
1	A	405	HIS
1	A	536	ASN
1	A	543	ASN
1	A	579	GLN
1	A	596	ASN
1	A	725	HIS
1	A	1127	HIS
1	A	1130	GLN
1	A	1158	ASN
1	A	1201	HIS
1	A	1203	ASN
1	A	1296	GLN
1	A	1459	GLN
1	A	1532	ASN
1	A	1631	GLN
1	A	1663	HIS
1	A	1719	HIS
1	A	1949	GLN
1	A	2184	ASN
1	A	2194	HIS
1	A	2196	ASN
1	A	2253	HIS
1	A	2260	ASN
1	A	2498	HIS
1	A	2856	ASN
1	A	2881	ASN
1	A	3699	HIS
1	A	3700	GLN
1	A	3771	HIS
1	A	3837	GLN
1	A	3845	ASN
1	A	3851	ASN
1	A	3882	GLN
1	A	3895	HIS
1	A	3900	GLN
1	A	3906	GLN
1	A	3960	GLN
1	A	3994	HIS
1	A	3998	HIS
1	A	4034	ASN
1	A	4547	GLN
1	A	4947	GLN

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Mol	Chain	Res	Type
1	A	4949	GLN
1	A	5031	GLN
2	B	87	HIS
1	C	113	HIS
1	C	379	HIS
1	C	380	GLN
1	C	383	HIS
1	C	405	HIS
1	C	536	ASN
1	C	543	ASN
1	C	579	GLN
1	C	596	ASN
1	C	725	HIS
1	C	1127	HIS
1	C	1130	GLN
1	C	1158	ASN
1	C	1201	HIS
1	C	1203	ASN
1	C	1296	GLN
1	C	1459	GLN
1	C	1532	ASN
1	C	1631	GLN
1	C	1660	GLN
1	C	1663	HIS
1	C	1719	HIS
1	C	1949	GLN
1	C	2184	ASN
1	C	2194	HIS
1	C	2196	ASN
1	C	2253	HIS
1	C	2260	ASN
1	C	2498	HIS
1	C	2856	ASN
1	C	2881	ASN
1	C	3699	HIS
1	C	3700	GLN
1	C	3771	HIS
1	C	3837	GLN
1	C	3845	ASN
1	C	3882	GLN
1	C	3895	HIS
1	C	3900	GLN

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Mol	Chain	Res	Type
1	C	3906	GLN
1	C	3960	GLN
1	C	3994	HIS
1	C	3998	HIS
1	C	4034	ASN
1	C	4547	GLN
1	C	4947	GLN
1	C	4949	GLN
1	C	5031	GLN
2	D	87	HIS
1	E	113	HIS
1	E	284	HIS
1	E	379	HIS
1	E	380	GLN
1	E	383	HIS
1	E	405	HIS
1	E	536	ASN
1	E	543	ASN
1	E	596	ASN
1	E	725	HIS
1	E	1127	HIS
1	E	1130	GLN
1	E	1158	ASN
1	E	1201	HIS
1	E	1203	ASN
1	E	1296	GLN
1	E	1459	GLN
1	E	1631	GLN
1	E	1660	GLN
1	E	1663	HIS
1	E	1719	HIS
1	E	1949	GLN
1	E	2184	ASN
1	E	2194	HIS
1	E	2196	ASN
1	E	2253	HIS
1	E	2260	ASN
1	E	2498	HIS
1	E	2856	ASN
1	E	2881	ASN
1	E	3699	HIS
1	E	3700	GLN

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Mol	Chain	Res	Type
1	E	3771	HIS
1	E	3837	GLN
1	E	3845	ASN
1	E	3851	ASN
1	E	3882	GLN
1	E	3895	HIS
1	E	3900	GLN
1	E	3906	GLN
1	E	3960	GLN
1	E	3994	HIS
1	E	3998	HIS
1	E	4034	ASN
1	E	4547	GLN
1	E	4947	GLN
1	E	4949	GLN
1	E	5031	GLN
2	F	87	HIS
1	G	113	HIS
1	G	349	GLN
1	G	379	HIS
1	G	380	GLN
1	G	383	HIS
1	G	405	HIS
1	G	536	ASN
1	G	543	ASN
1	G	596	ASN
1	G	725	HIS
1	G	1127	HIS
1	G	1130	GLN
1	G	1158	ASN
1	G	1201	HIS
1	G	1203	ASN
1	G	1296	GLN
1	G	1459	GLN
1	G	1631	GLN
1	G	1660	GLN
1	G	1663	HIS
1	G	1719	HIS
1	G	1949	GLN
1	G	2184	ASN
1	G	2194	HIS
1	G	2196	ASN

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Mol	Chain	Res	Type
1	G	2253	HIS
1	G	2260	ASN
1	G	2498	HIS
1	G	2856	ASN
1	G	3700	GLN
1	G	3766	GLN
1	G	3809	ASN
1	G	3851	ASN
1	G	3895	HIS
1	G	3896	ASN
1	G	3897	ASN
1	G	3900	GLN
1	G	3906	GLN
1	G	3960	GLN
1	G	3970	GLN
1	G	3976	ASN
1	G	3994	HIS
1	G	3998	HIS
1	G	4034	ASN
1	G	4142	ASN
1	G	4547	GLN
1	G	4700	GLN
1	G	4886	HIS
1	G	4947	GLN
1	G	4983	HIS
1	G	4984	ASN
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.

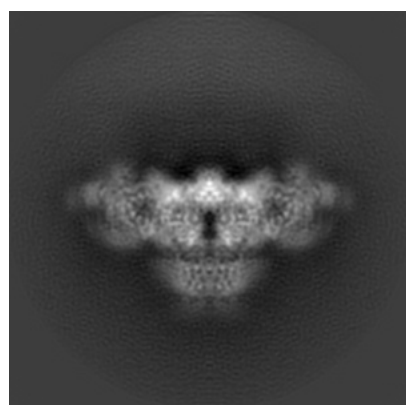
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9521. These allow visual inspection of the internal detail of the map and identification of artifacts.

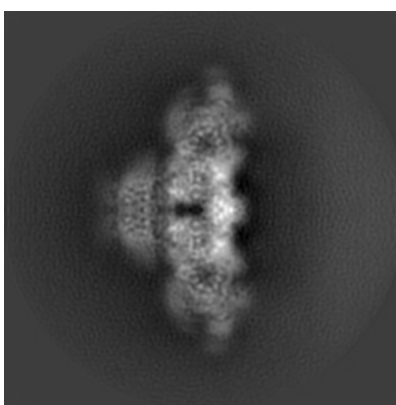
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

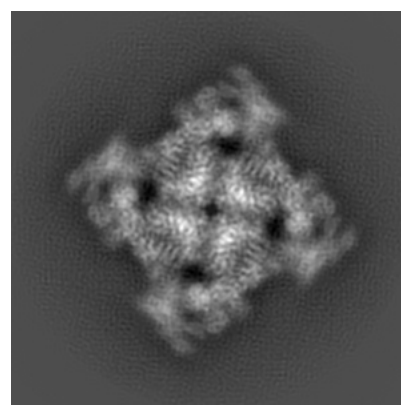
6.1.1 Primary map



X



Y

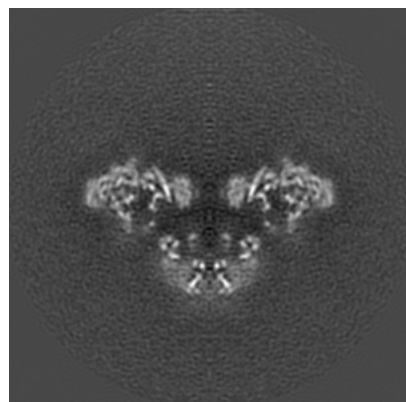


Z

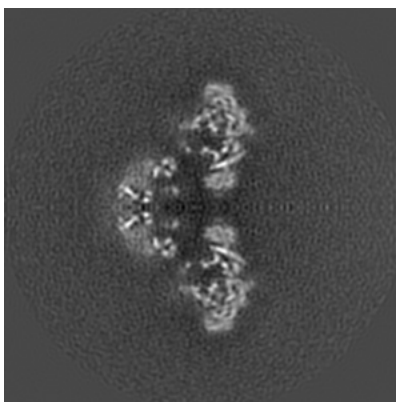
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

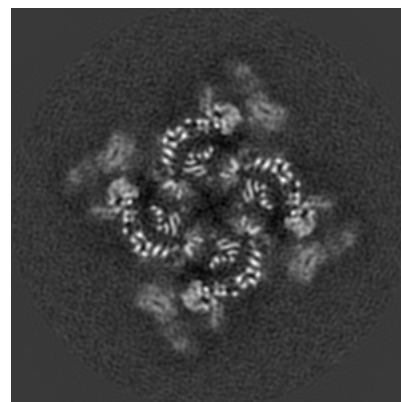
6.2.1 Primary map



X Index: 180



Y Index: 180

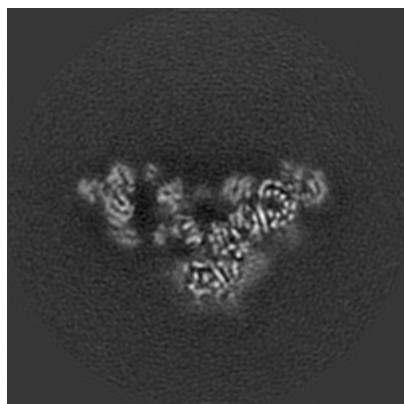


Z Index: 180

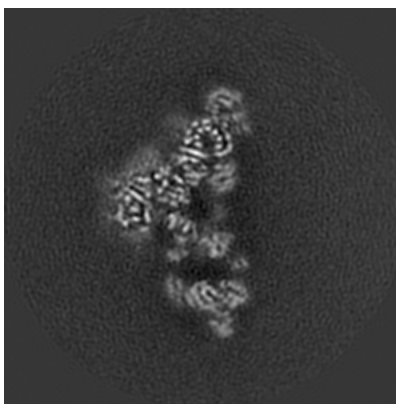
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

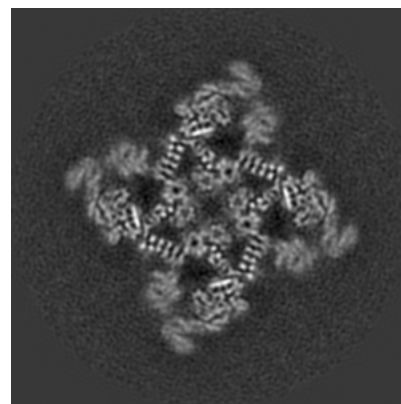
6.3.1 Primary map



X Index: 169



Y Index: 191

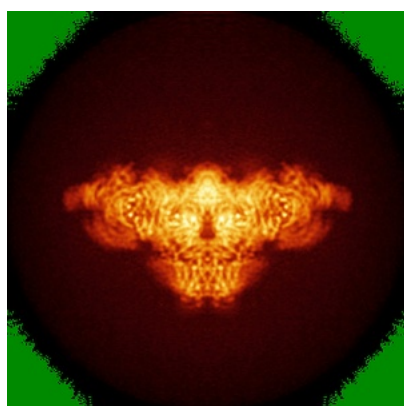


Z Index: 190

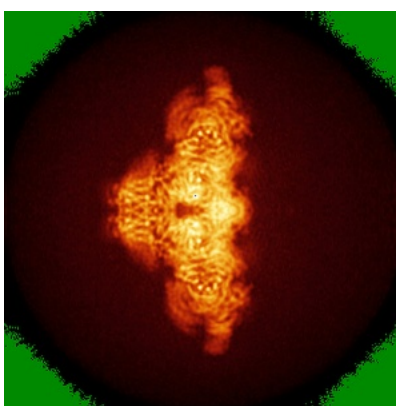
The images above show the largest variance slices of the map in three orthogonal directions.

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

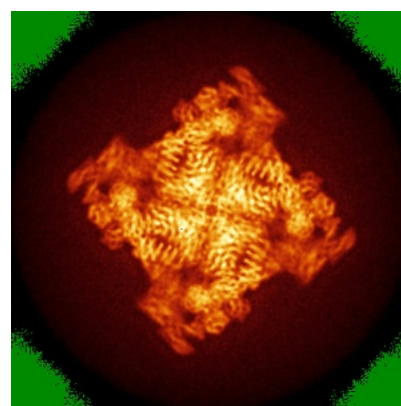
6.4.1 Primary map



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 0.075. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

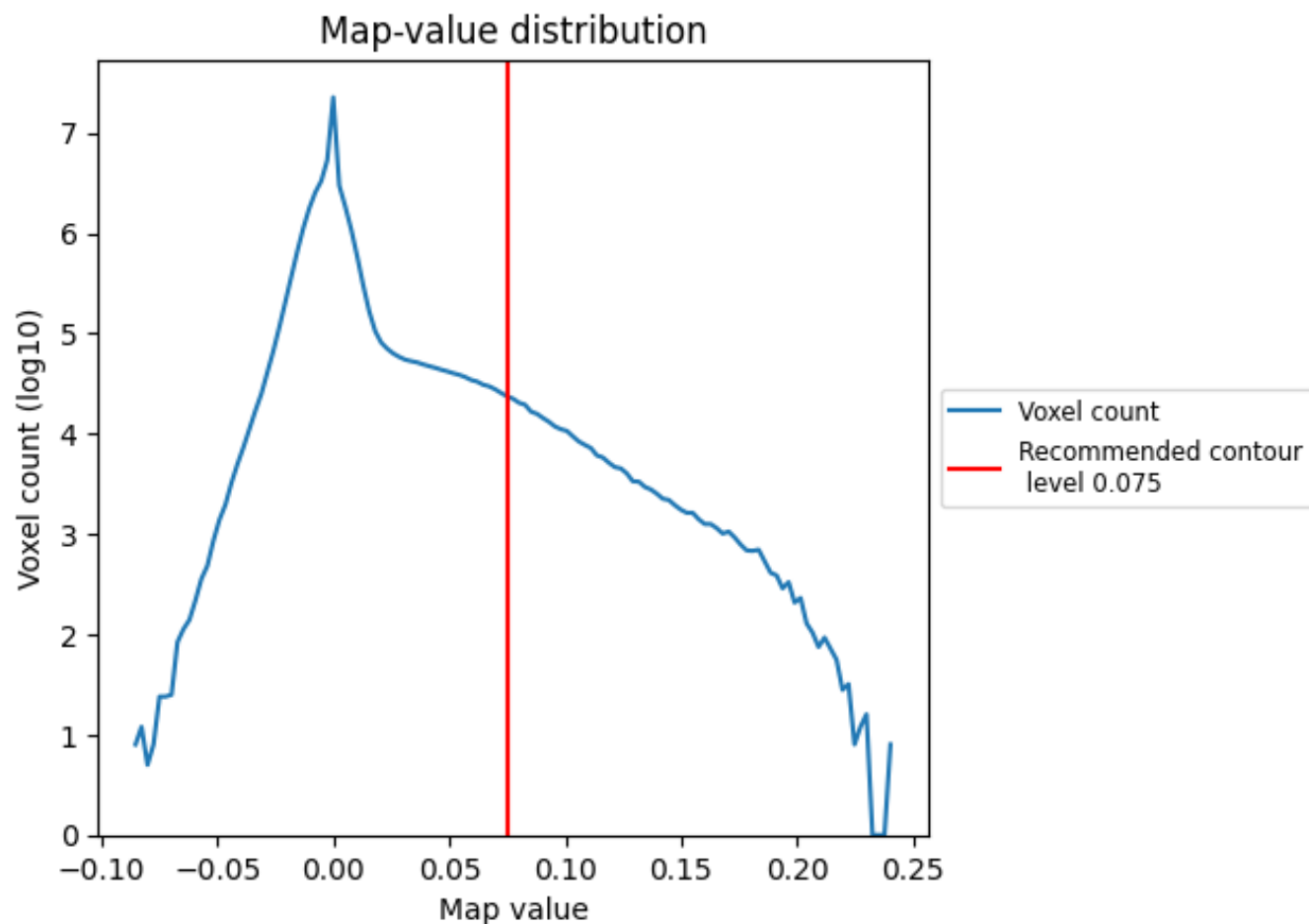
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

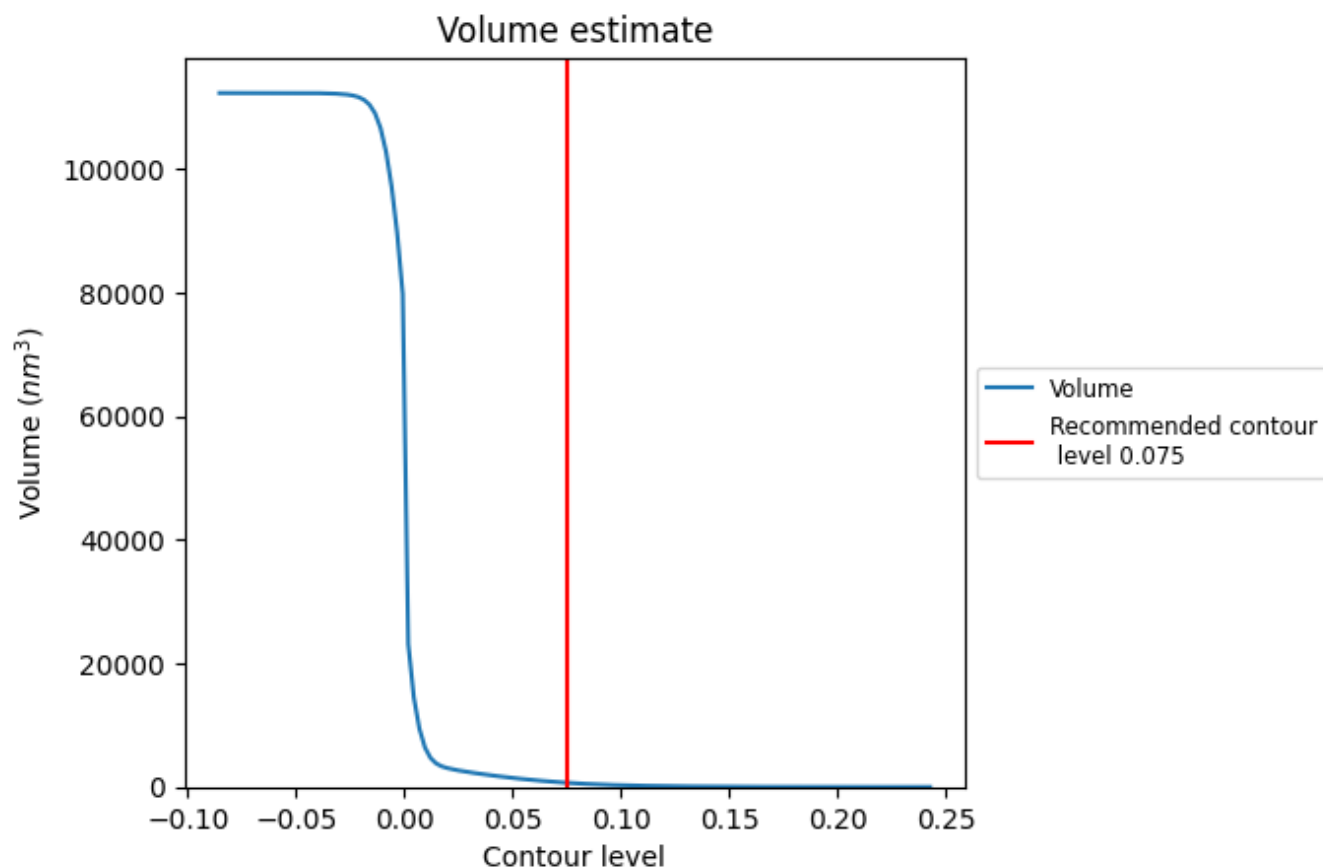
This section contains the results of statistical analysis of the map.

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.

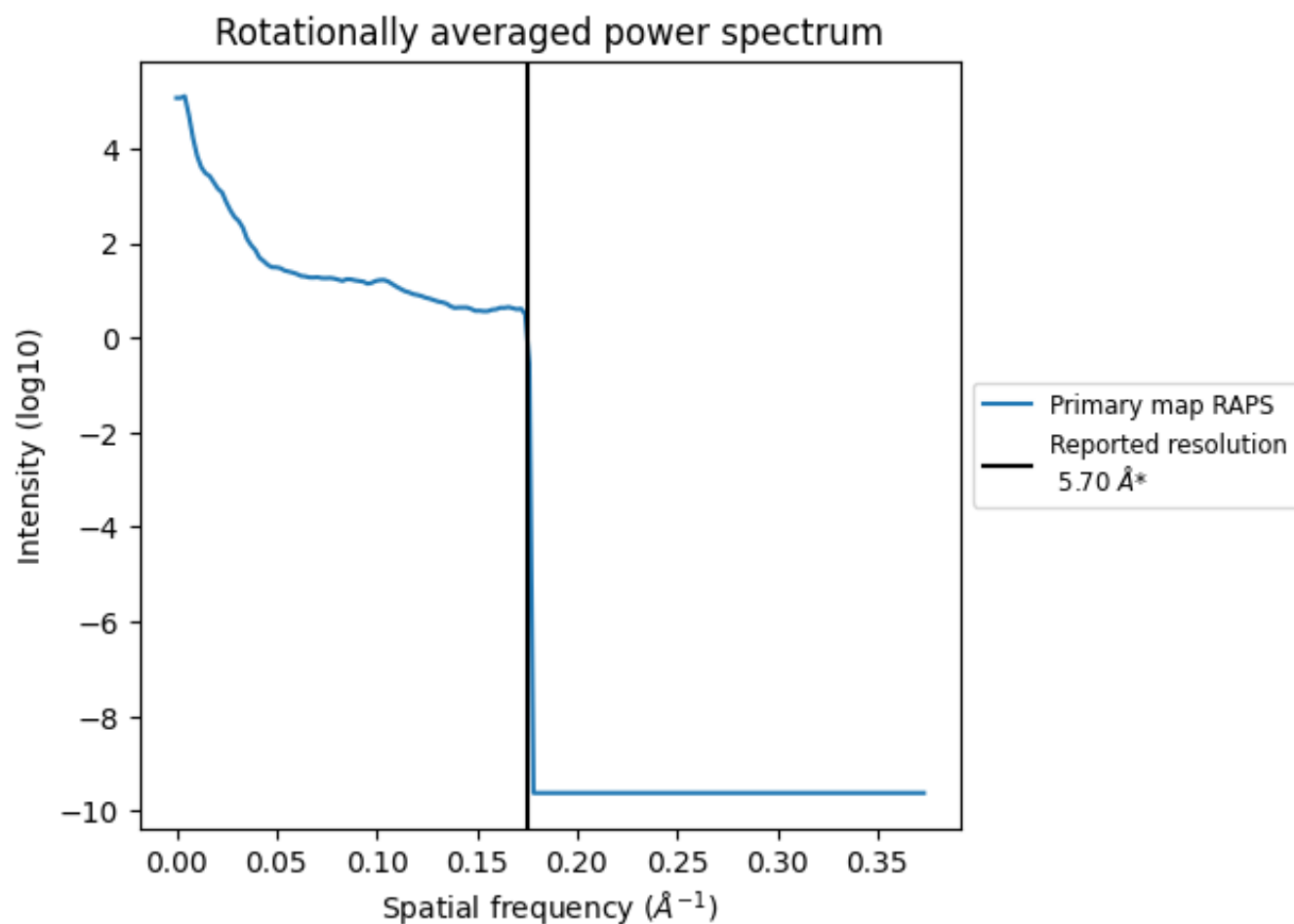
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 679 nm^3 ; this corresponds to an approximate mass of 613 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 0.175 Å⁻¹

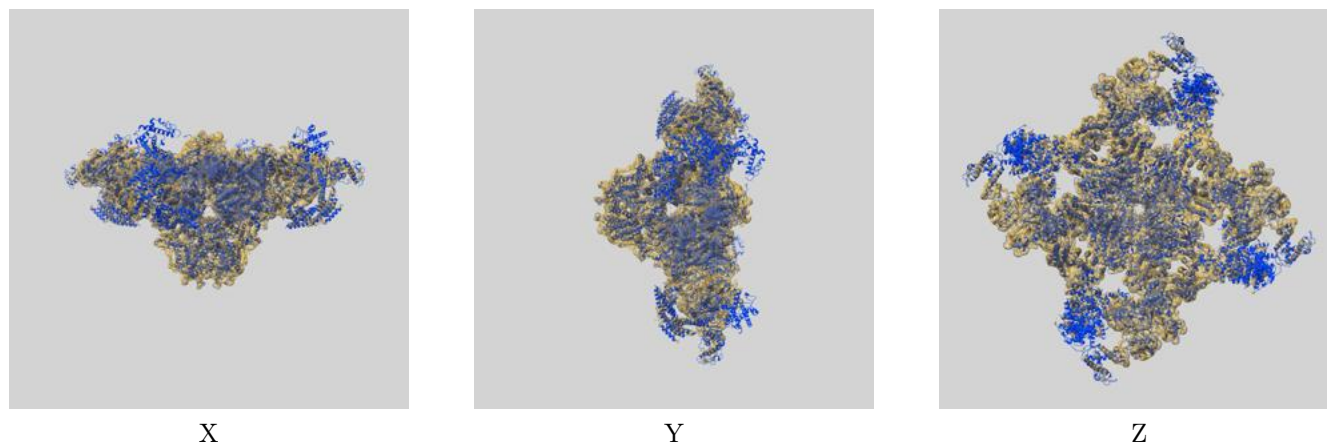
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

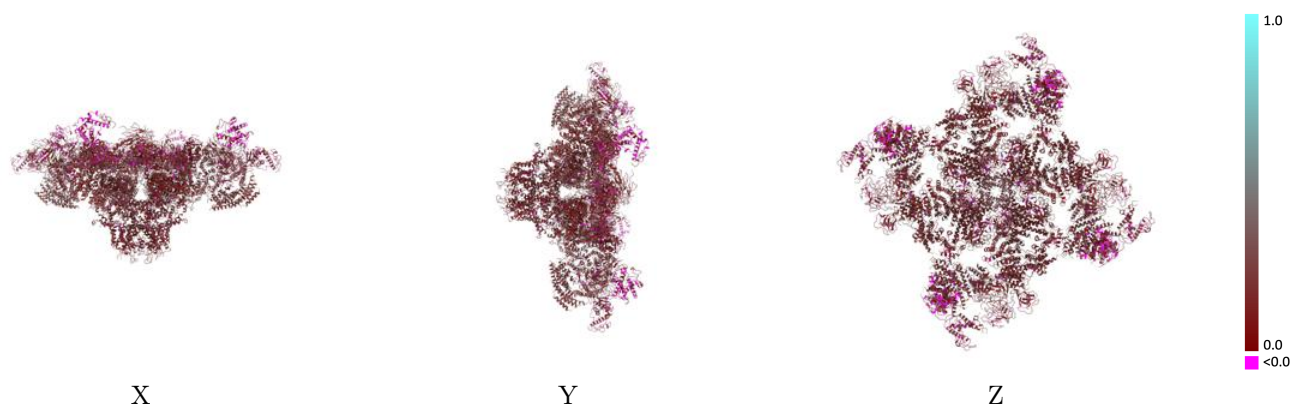
This section contains information regarding the fit between EMDB map EMD-9521 and PDB model 5GL1. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



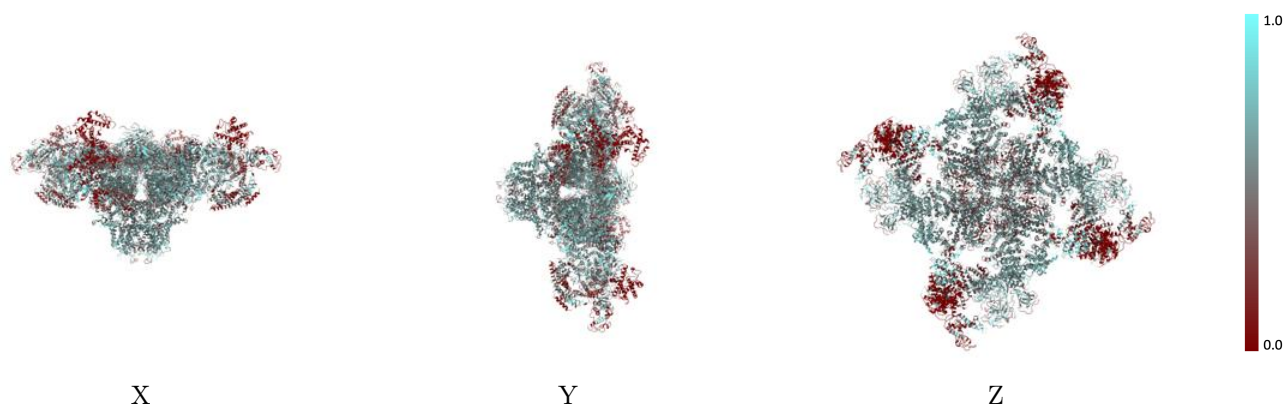
The images above show the 3D surface view of the map at the recommended contour level 0.075 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



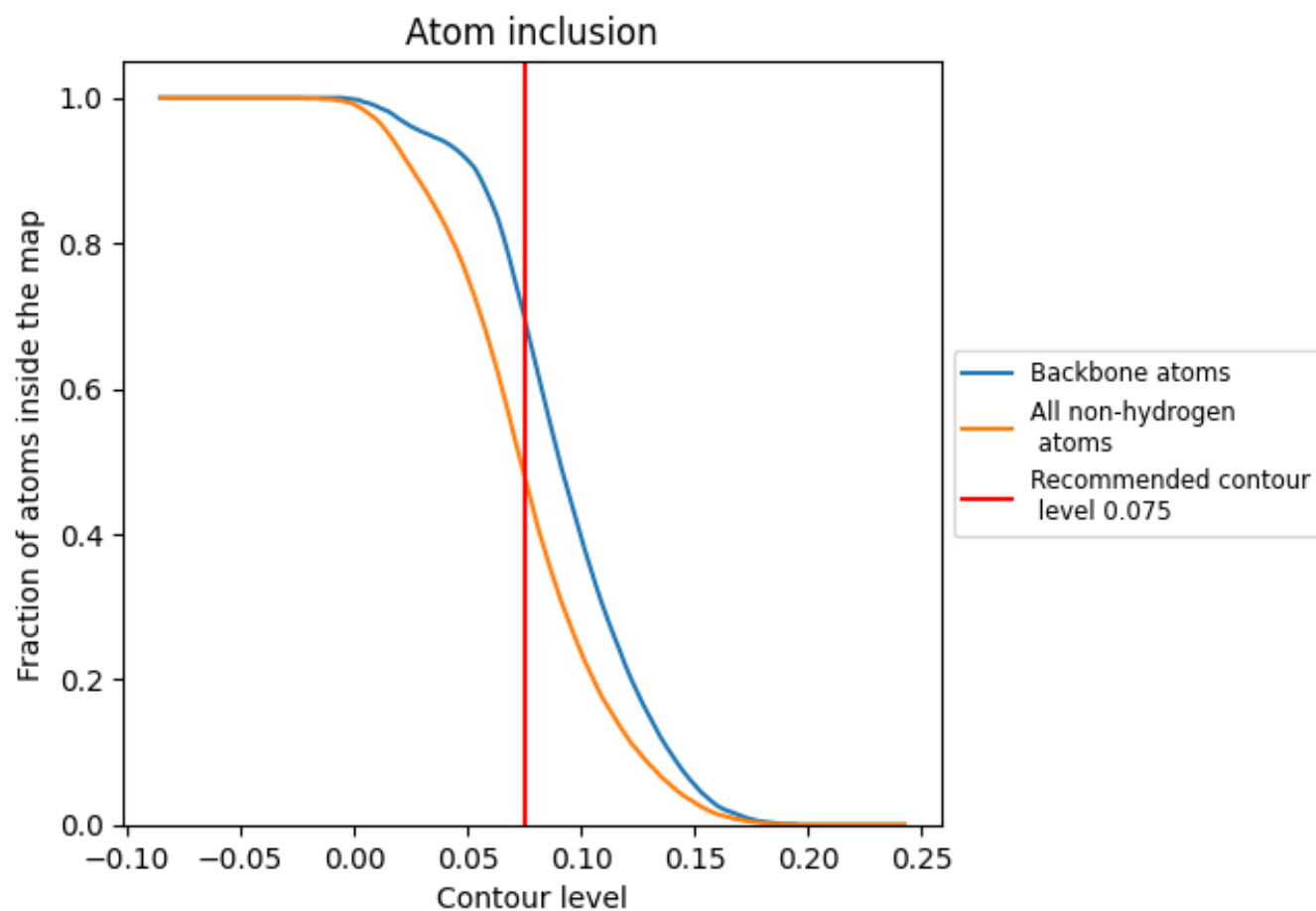
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.075).

9.4 Atom inclusion [i](#)



At the recommended contour level, 70% of all backbone atoms, 48% 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 (0.075) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4830	0.2010
A	0.4820	0.2020
B	0.4990	0.2060
C	0.4820	0.2010
D	0.4990	0.2080
E	0.4820	0.2010
F	0.5000	0.2050
G	0.4820	0.2010
H	0.4970	0.2040

1.0

0.0

<0.0