



Full wwPDB EM Validation Report ⓘ

Jun 16, 2025 – 02:33 PM EDT

PDB ID : 9E1B / pdb_00009e1b
EMDB ID : EMD-47388
Title : Structure of RyR1 in the open state in the presence of dyphylline
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 4.49 Å(reported)
Based on initial model : 7TZC

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.dev118
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.44

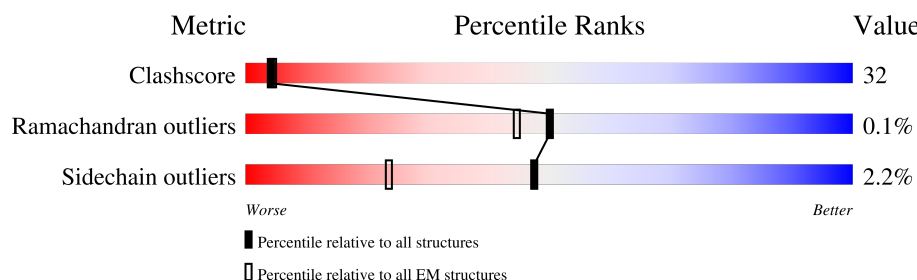
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.49 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	A	5037	<div> <div>57%</div> <div>39% 47% 13%</div> </div>
1	B	5037	<div> <div>57%</div> <div>39% 47% 13%</div> </div>
1	C	5037	<div> <div>57%</div> <div>39% 47% 13%</div> </div>
1	D	5037	<div> <div>57%</div> <div>39% 47% 13%</div> </div>
2	E	108	<div> <div>97%</div> <div>33% 64% ..</div> </div>
2	F	108	<div> <div>97%</div> <div>38% 60% ..</div> </div>
2	G	108	<div> <div>96%</div> <div>40% 57% ..</div> </div>
2	H	108	<div> <div>96%</div> <div>39% 56% ..</div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 144128 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	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	B	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	D	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	C	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	E	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	H	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	G	107	Total	C	N	O	S	0	0
			831	527	146	154	4		
2	F	107	Total	C	N	O	S	0	0
			831	527	146	154	4		

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃).



Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	D	1	Total	C	N	O	P	0
			31	10	5	13	3	
3	C	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Ca	0
			1	1	
4	B	1	Total	Ca	0
			1	1	
4	D	1	Total	Ca	0
			1	1	
4	C	1	Total	Ca	0
			1	1	

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

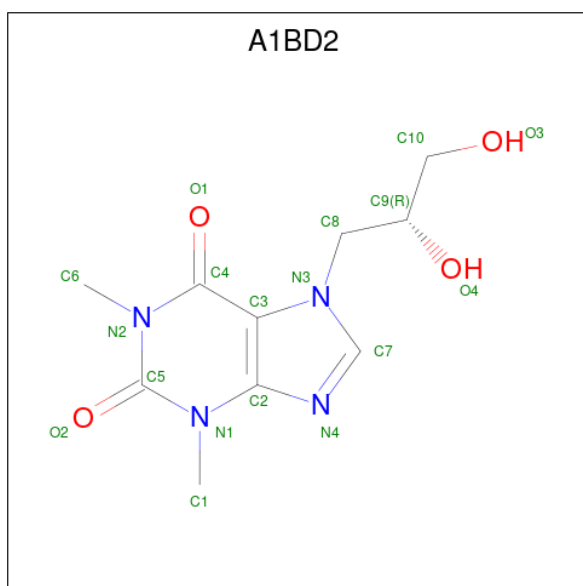
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
5	B	1	Total	Zn	0
			1	1	
5	D	1	Total	Zn	0
			1	1	
5	C	1	Total	Zn	0
			1	1	

- Molecule 6 is dyphylline (CCD ID: A1BD2) (formula: $C_{10}H_{14}N_4O_4$) (labeled as "Ligand of Interest" by depositor).

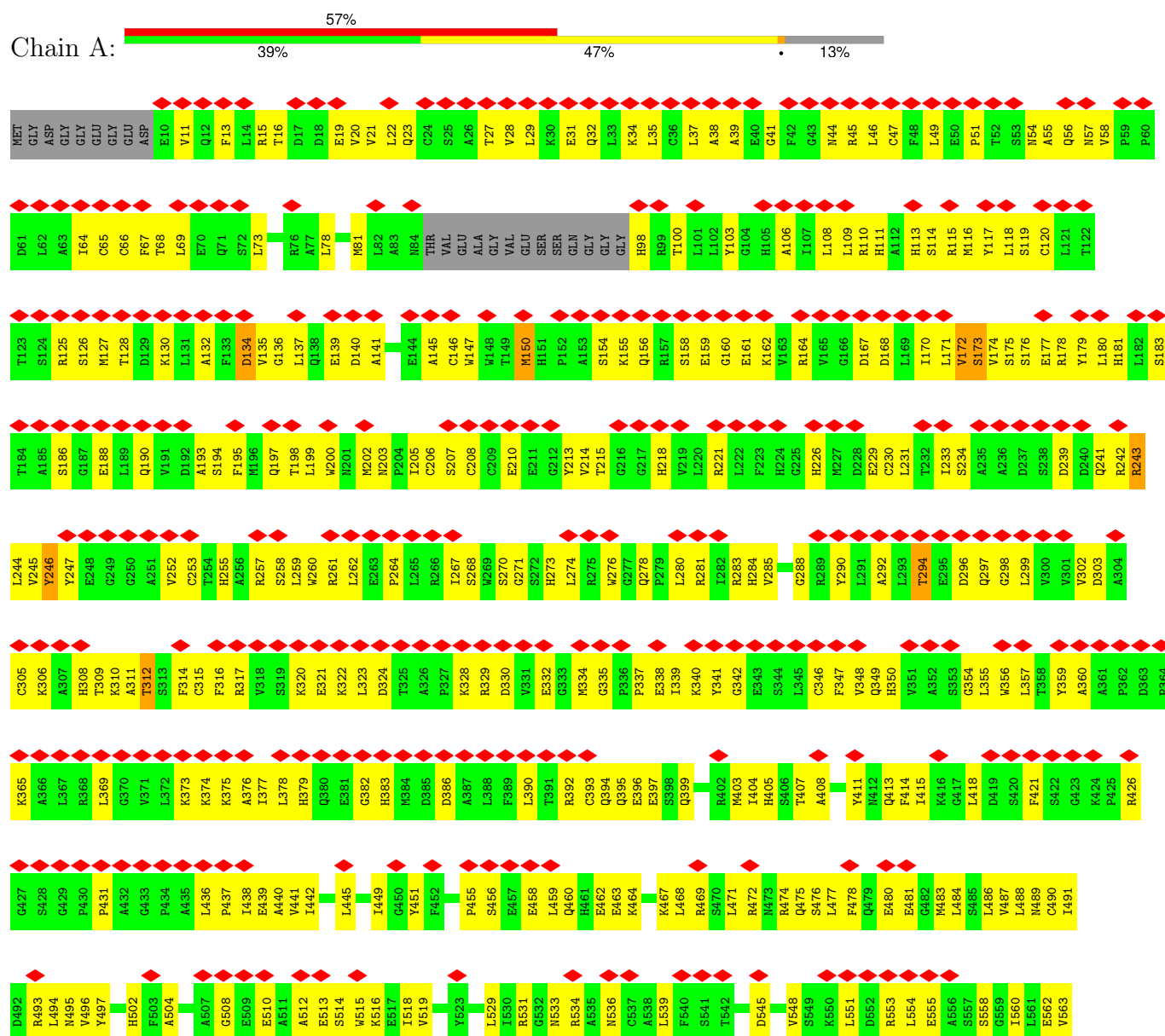


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			18	10	4	4	
6	B	1	Total	C	N	O	0
			18	10	4	4	
6	D	1	Total	C	N	O	0
			18	10	4	4	
6	C	1	Total	C	N	O	0
			18	10	4	4	

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









E3755	E3688	S3625	G3565	V3505	A3385	N3325	E3265	F3205	Q3145	P3085	L3025
K3756	E3689	K3626	S3566	Q3506	E3386	N3326	M3266	L3206	H3146	E3086	G3026
E3757	V3690	Q3627	P3567	T3507	A3387	L3327	P3267	E3207	I3147	I3087	S3027
E3759	E3691	R3628	S3568	S3508	E3388	G3328	H3268	P3208	A3148	V3088	G3028
K3760	E3692	R3629	L3569	L3509	E3389	G3329	V3269	Q3209	Q3149	K3089	G3029
Q3761	K3693	R3630	R3570	L3510	G3390	D3330	I3270	L3210	H3150	A3090	H3030
K3762	K3694	A3631	W3571	V3511	E3391	E3331	E3271	N3211	Q3151	G3091	A3031
L3763	P3695	V3632	Q3572	A3512	L3392	A3332	I3272	E3212	F3152	L3092	S3032
Q3766	L3698	V3633	A3574	T3513	L3393	T3333	T3273	Y3213	G3153	R3093	N3033
Q3767	L3701	A3634	L3575	L3514	V3394	W3334	L3274	N3214	D3154	S3094	K3034
Q3768	V3702	C3635	Y3576	K3515	R3395	W3335	P3275	A3215	D3155	F3095	E3035
R3769	F3636	F3638	Y3577	K3516	D3396	K3336	M3276	C3216	V3156	F3096	K3036
H3771	R3637	R3638	R3577	M3517	E3397	R3337	L3277	S3217	I3157	E3097	E3037
T3772	K3638	K3639	G3578	L3518	F3398	L3338	C3278	V3218	L3158	S3098	K3038
R3773	T3639	P3640	L3579	P3519	S3399	A3339	S3279	Y3219	D3159	A3099	I3039
G3774	P3640	L3641	P3580	I3520	V3400	V3340	Y3280	T3220	D3160	S3100	T3040
A3775	L3642	Y3642	Q3581	G3521	L3401	F3341	L3281	T3221	V3161	E3101	S3041
E3777	N3643	N3644	R3582	L3522	C3402	A3342	R3282	K3222	Q3162	D3102	L3042
V3779	L3643	L3644	E3583	N3523	R3403	Q3343	R3283	S3223	V3163	I3103	F3043
L3780	K3715	L3644	E3584	M3524	D3404	P3344	W3284	P3224	G3164	E3104	C3044
Q3781	L3716	H3647	D3585	C3525	L3405	I3345	W3285	R3225	C3165	K3105	K3045
K3782	D3717	R3648	A3586	A3526	Y3406	V3346	E3286	E3226	Y3166	M3106	L3046
L3783	E3718	A3649	D3587	P3527	A3407	S3347	R3287	R3227	R3167	V3107	A3047
A3784	D3719	C3650	P3588	T3528	L3408	R3348	G3288	A3228	T3168	E3108	A3048
A3785	K3720	N3651	P3589	Q3529	F3469	A3349	P3289	I3229	L3169	N3109	L3049
C3786	L3721	K3652	E3590	Q3530	L3470	R3350	E3290	L3230	G3170	L3110	V3050
K3787	Y3722	F3653	K3591	D3531	T3471	P3351	A3291	G3231	S3171	R3111	R3051
C3788	M3723	L3654	I3592	L3532	A3472	E3352	P3292	L3232	Y3173	L3112	H3052
E3789	A3724	E3655	V3593	T3533	D3473	L3353	P3293	P3233	K3174	G3113	R3053
T3790	Y3725	E3656	R3594	I3534	S3474	L3354	P3294	N3234	S3175	K3114	V3054
K3793	I3728	A3659	R3595	M3534	R3414	L3355	A3295	S3235	G3176	V3115	S3055
S3796	M3729	A3660	V3596	L3535	Y3415	H3355	P3297	E3237	T3177	GLN	F3057
T3797	A3730	W3661	Q3597	A3536	Y3416	S3356	L3296	V3236	G3178	ALA	G3058
L3798	K3732	L3662	E3598	K3537	D3417	H3357	P3298	E3238	K3179	THR	T3059
K3799	C3733	L3663	S3599	T3538	N3418	F3358	A3298	M3239	N3180	GLN	D3060
G3801	H3734	E3665	S3600	R3539	N3419	I3359	G3299	C3240	T3181	VAL	A3061
L3802	L3735	D3666	A3601	Y3540	R3420	P3360	A3300	P3241	Y3182	K3123	P3062
L3805	E3736	H3667	V3602	A3541	A3421	T3361	P3301	D3242	V3183	G3124	A3063
G3807	GLU	S3668	L3603	L3542	H3422	I3362	P3302	I3243	E3184	V3125	V3064
Q3808	GLY	F3669	Y3604	K3543	W3423	G3363	P3303	P3244	G3126	Q3127	V3065
Q3811	GLY	E3670	H3605	D3544	L3424	R3364	C3304	V3245	K3185	N3128	N3066
V3812	ASN	E3671	L3606	T3545	T3425	L3365	T3305	L3246	L3186	N3129	C3067
Q3813	GLY	R3672	E3607	D3546	F3427	K3367	V3307	D3247	R3187	L3129	L3068
Q3814	GLY	K3673	Q3608	E3547	N3428	R3368	T3308	R3248	A3189	T3130	H3069
L3816	GLU	L3674	T3609	E3548	A3429	A3369	S3309	L3249	Y3131	Y3131	T3070
K3815	GLU	D3675	H3611	V3549	N3430	G3370	D3310	M3250	G3191	T3132	L3071
K3816	GLU	D3676	P3612	R3550	THR	K3371	H3311	A3251	E3192	T3133	A3072
Y3819	GLU	K3679	Y3613	E3551	LYS	V3372	L3312	D3253	C3193	V3134	K3073
		A3680	K3614	F3552	E3432	V3373	N3313	I3253	L3194	A3136	S3074
		G3681	L3498	Q3554	R3433	A3374	S3314	G3254	A3195	L3137	L3075
		E3682	R3499	N3555	L3434	E3375	L3315	G3255	L3196	P3138	D3076
		Q3683	G3500	N3556	F3435	E3376	L3316	L3256	L3197	V3139	K3077
		K3684	D3501	N3557	R3436	E3377	G3317	A3257	A3198	V3139	A3078
		E3685	L3502	H3558	M3437	Q3378	N3318	E3258	A3199	L3140	T3079
		E3686	R3502	R3559	Q3438	L3379	I3319	S3259	A3199	T3141	V3080
		E3687	Y3503	L3559	G3439	L3379	I3320	G3260	M3201	T3142	K3081
			S3504	Q3560	E3440	R3380	R3321	A3261	P3202	L3143	S3083
			G3561	K3562	I3441	L3381	I3322	K3262	V3203	F3144	G3084
			K3563	V3563	I3442	E3382	I3323	Y3263	A3204		
			E3564		Y3444	A3383					



M1170	R1110	G1050	E990	K930	I1870	A809	D749	L688	G628	Y565	R493	S428
S1171	P1111	Y1051	G991	T931	R871	P810	L750	T689	R629	C566	L494	G429
D1172	D1112	N1052	H992	L932	E872	C311	S751	E690	E630	V567	N495	
S1173	V1113	I1053	H993	L933	K873	H812	V752	E691	L631	L568	V496	P431
G1174	E1114	E1054	N994	A934	L874	E813	P753	Y692	L632	I569	Y497	
S1175	L1115	P1055	W996	L935	A875	A815	S754	S693	L433	E570	F503	A432
E1176	G1116	P1056	A997	G936	E876	W816	I755	P694	Q634	P572	H502	G433
T1177	A1117	D1057	R998	C937	N877	L816	F757	Y695	T635	E573	A504	A435
A1178	D1118	Q1058	D999	H938	R878	P817	R758	P696	L837	V574	A507	L436
F1179	E1119	E1059	R1000	V939	H879	R818	I759	G697	L837	L575	G508	P437
R1180	L1120	P1060	V1001	E980	E880	E819	I769	G698	N639	N576	E509	I438
E1181	A1121	S1061	A1002	H941	E881	R820	N760	G699	Y640	I577	E510	E439
I1182	V1122	Q1062	Q1003	A942	W882	L821	G761	E700	V641	A511	A512	A440
E1183	V1123	G1063	G1004	D943	A883	R822	P763	G701	T642	I578	A512	I442
F1184	F1124	E1064	W1005	E944	L884	L823	V764	W702	T642	E580	E513	
G1185	N1125	N1065	S1006	K945	T885	E824	Q765	G703	S643	N581	E513	
D1186	G1126	N1066	Y1007	E946	R886	P825	G766	G704	I644	H582	S514	
G1187	H1127	Q1066	E1007	E947	T887	T826	V767	R645	R645	K584	W515	
F1188	R1128	S1067	S1008	E947	E888	K827	F768	G706	P646	S585	K516	
L1189	Q1130	R1068	A1009	D948	E889	E828	E769	V707	N647	I586	I518	
P1190	G1131	W1069	V1010	N949	Q889	Y829	A770	G708	F648	I587	V519	
V1191	H1132	D1070	Q1011	L950	G890	R830	R771	D709	F649	S588	Y523	
G1192	W1133	R1071	D1012	K951	N891	R831	W772	D710	V650	L589	Y523	
S1193	L1134	V1072	E1013	K952	T892	E832	L773	L711	G651	I530	L529	
L1194	G1135	R1073	P1014	T953	Y893	G833	Y712	Y712	R652	R531	I530	
H1195	S1136	I1074	A1015	K954	G894	P834	D774	S713	R653	H593	E457	
P1196	E1137	F1075	L1016	L955	P895	R835	G775	E654	E654	N533	E458	
G1197	P1138	R1076	R1017	L956	V896	R835	L776	G655	R596	R596	Q460	
L1198	F1139	A1077	N1018	K957	R897	H838	F777	S656	H597	K598	E462	
V1199	G1140	E1078	P1019	T958	D898	W840	F778	F716	S656	E463	E463	
G1200	R1141	K1079	R1020	Y959	D899	G841	P779	D717	T657	C537	K464	
H1201	P1142	S1080	L1021	N960	N900	P842	V780	Q658	L600	A538	P455	
L1202	Q1144	Y1081	V1022	N961	K901	S843	W781	G660	D601	L539	S456	
N1203	S1145	T1082	P1023	S962	R902	R844	S782	K661	V602	F540	L468	
L1204	G1146	Q1084	Y1024	N963	L903	C845	F783	W622	L603	S941	R469	
G1205	D1147	S1085	R1025	K964	H904	T846	S784	G724	C504	T542	S470	
Q1206	V1148	G1086	L1026	Y965	P905	S847	A785	F664	S605	L542	R472	
D1207	G1149	R1087	D1028	K966	C906	H848	G786	E665	L606	D545	R472	
V1208	L1150	W1088	E1029	P967	L907	T849	V787	V666	C507	C507	R473	
S1209	C1151	Y1089	A1030	A968	Y908	D850	K788	R667	N510	V548	R474	
S1210	M1152	F1090	N1030	P969	N909	P851	W789	V668	K950	S549	Q475	
L1211	I1153	E1091	T1031	L970	F910	V852	P729	D669	L551	L551	S476	
R1212	D1154	F1092	K1032	D971	H911	P853	W730	E670	R552	D552	F478	
F1213	L1155	E1093	R1033	L972	S912	C854	L792	V671	R553	Q479	Q479	
F1214	T1156	A1094	S1034	S973	L913	P855	G794	V672	L554	R554	E481	
A1215	E1157	A1215	N1035	H974	P914	V856	G795	P733	E555	G482	G482	
I1216	N1158	T1096	R1036	V975	E915	D857	R796	G734	A556	M483	M483	
C1217	T1159	T1097	D1037	L976	R916	T858	H797	Q735	S557	S485	S485	
G1218	I1160	G1098	S1038	L977	P917	V859	G798	H736	T622	L486	L486	
L1219	F1161	E1099	L1039	L977	E917	T859	E799	A677	G523	V487	V487	
Q1220	L1162	E1099	L1039	T978	R918	Q860	F800	Q678	N624	I560	L488	
E1221	T1163	M1100	Q1040	P979	N919	T861	P800	A679	L561	E562	C490	
G1222	L1164	R1101	Q1041	A980	N920	V862	F802	T680	L625	V563	N491	
F1223	N1165	V1102	E1042	Q981	N921	L863	L803	H681	P627	L564	D492	
E1224	G1166	G1103	V1043	T982	L922	P864	P804	L682				
F1225	E1167	W1104	T1045	T983	Q923	P865	P805	R683				
F1226	V1168	A1105	L1046	L984	N924	H866	P806	V684				
A1227	L1169	R1106	L1047	V985	S925	L867	G807	G685				
N1228		P1107	D986	P987	G926	E868	Y808	W686				
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		L1109	Y1049	A989	T928							









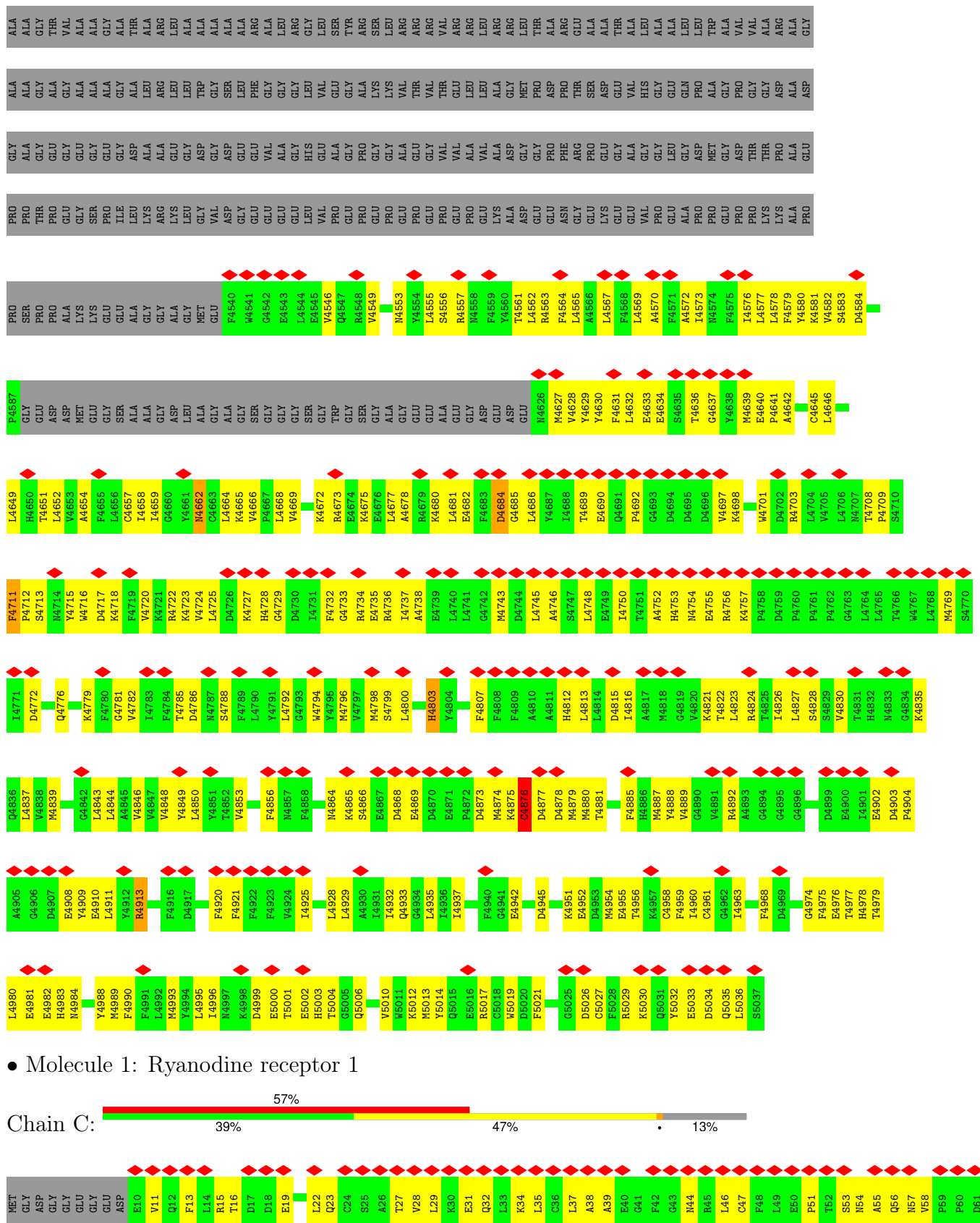
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G1790	E1721	Q1660	Q1598	T1538	D1478	PRO	PRO	Q1296	T1234	G1174	E1114	E1054
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	I1745	M1679	E1616	V1554	M1494	Y1434	ASP	LEU	P1190	R1131	R1131	D1070
		L1680	T1617	P1556	V1495	Y1435	ALA	GLN	V1191	W1132	W1132	R1071
	F1748	V1681	R1618	H1566	H1496	S1436	THR	PRO	E1256	G1193	H1133	E1078
	P1749	V1682	R1619	T1557	G1497	V1437	THR	PRO	V1257	L1194	L1134	V1072
	P1750	H1683	A1620	H1568	G1498	R1438	GLU	ALA	S1193	G1135	G1135	R1073
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	R1758	Q1693	Q1629	K1568	R1508	V1448	LYS	GLU	P1288	G1205	G1205	Q1084
	H1760	L1694	C1630	Q1569	Q1509	W1449	ALA	ASN	C1269	Q1206	Q1206	S1085
		H1696	Q1631	K1570	I1509	V1450	ALA	ASN	L1270	D1147	D1147	S1085
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	L1762	H1698	P1633	I1572	S1511	W1452	MET	ARG	L1272	W1148	W1148	R1087
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		A1644	E1644	L1581	V1520	D1461	ARG	GLY	E1157	E1157	E1157	T1096
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				P1587	P1587	K1468			E1224	E1224	E1224	V1102
				A1588	A1588	V1469			P1225	P1225	P1225	G1103
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				P1592	P1592				M1170	M1170	M1170	P1107
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				L1595	L1595				S1171	S1171	S1171	L1109
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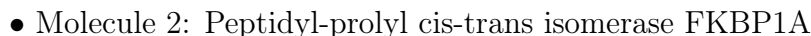


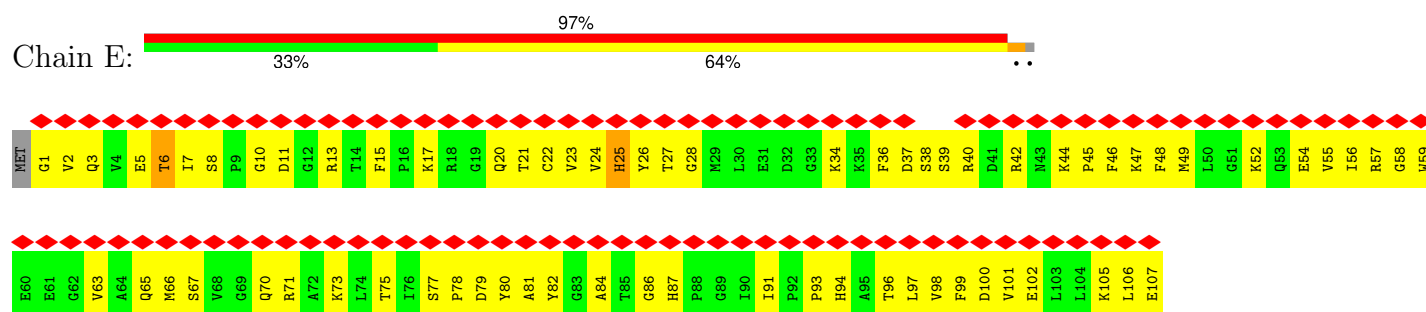
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H1484	H1484	VAL	VAL	VAL	VAL	VAL	VAL	C1303	L1242	R1180	L1120	P1060	V1001	G940
S1485	S1485	GLU	GLU	GLU	GLU	GLU	GLU	T1304	P1243	E1181	A1121	S1061	A1002	M941
S1486	S1486	ALA	ALA	ALA	ALA	ALA	ALA	E1246	E1246	I1182	Y1122	Q1062	Q1003	A942
L1487	L1487	GLN	GLN	GLN	GLN	GLN	GLN	F1247	F1247	E1183	V1123	V1063	G1004	D943
K1488	K1488	PRO	PRO	PRO	PRO	PRO	PRO	T1248	T1248	I1184	F1124	E1064	W1005	E944
C1489	C1489	VAL	VAL	VAL	VAL	VAL	VAL	P1249	P1249	G1185	N1125	N1065	S1006	K945
C1490	C1490	ARG	ARG	ARG	ARG	ARG	ARG	P1250	P1250	D1186	H1127	Q1066	Y1007	A946
S1490	S1490	ALA	ALA	ALA	ALA	ALA	ALA	E1251	E1251	G1187	G1128	S1067	S1008	E947
N1491	N1491	GLU	GLU	GLU	GLU	GLU	GLU	H1252	H1252	F1188	R1128	R1068	A1009	D948
A1551	A1551	ASN	ASN	ASN	ASN	ASN	ASN	P1253	P1253	L1189	Q1130	W1069	V1010	N949
V1552	V1552	GLY	GLY	GLY	GLY	GLY	GLY	H1254	H1254	Y1191	W1132	D1070	Q1011	L950
F1553	F1553	ASP	ASP	ASP	ASP	ASP	ASP	Y1255	Y1255	C1190	G1133	R1071	D1012	K951
V1554	V1554	ALA	ALA	ALA	ALA	ALA	ALA	E1256	E1256	C1192	H1133	F1075	I1013	K952
L1555	L1555	THR	THR	THR	THR	THR	THR	V1257	V1257	S1193	L1134	R1076	P1014	T953
P1556	P1556	THR	THR	THR	THR	THR	THR	A1258	A1258	L1194	G1135	I1074	A1015	K954
T1557	T1557	LYS	LYS	LYS	LYS	LYS	LYS	GLU	GLU	G1195	S1136	F1075	R1016	L955
H1558	H1558	ASN	ASN	ASN	ASN	ASN	ASN	ASP	ASP	P1196	E1137	F1076	R1017	P956
Q1559	Q1559	LYS	LYS	LYS	LYS	LYS	LYS	M1260	M1260	Q1197	G1138	R1076	M1018	K957
M1560	M1560	ALA	ALA	ALA	ALA	ALA	ALA	D1261	D1261	Q1198	F1139	A1077	P1019	T958
V1561	V1561	ARG	ARG	ARG	ARG	ARG	ARG	G1262	G1262	V1199	G1140	K1079	R1020	Y959
S1562	S1562	PHE	PHE	PHE	PHE	PHE	PHE	T1263	T1263	G1200	R1141	S1080	L1021	M960
Q1563	Q1563	LEU	LEU	LEU	LEU	LEU	LEU	V1264	V1264	H1201	P1142	S1081	Y1022	M961
G1564	G1564	PHE	PHE	PHE	PHE	PHE	PHE	D1265	D1265	L1202	W1143	T1082	P1023	S962
Q1565	Q1565	LYS	LYS	LYS	LYS	LYS	LYS	T1267	T1267	M1203	Q1144	V1083	Y1024	N963
L1566	L1566	ALA	ALA	ALA	ALA	ALA	ALA	P1268	P1268	L1204	S1145	Q1084	R1025	G964
G1567	G1567	LYS	LYS	LYS	LYS	LYS	LYS	C1269	C1269	G1205	G1146	S1085	L1026	Y965
R1568	R1568	ALA	ALA	ALA	ALA	ALA	ALA	L1270	L1270	Q1206	D1147	G1086	L1027	K967
Q1569	Q1569	ALA	ALA	ALA	ALA	ALA	ALA	R1271	R1271	D1207	V1148	R1087	D1028	A968
K1570	K1570	MET	MET	MET	MET	MET	MET	A1273	A1273	S1209	G1150	W1088	E1029	A969
M1571	M1571	THR	THR	THR	THR	THR	THR	H1274	H1274	S1210	C1151	F1089	A1030	P970
S1572	S1572	GLN	GLN	GLN	GLN	GLN	GLN	T1275	T1275	L1211	M1152	F1090	T1031	L970
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P1574	P1574	PRO	PRO	PRO	PRO	PRO	PRO	T1276	T1276	F1213	D1154	E1093	R1033	L972
L1575	L1575	THR	THR	THR	THR	THR	THR	G1277	G1277	F1214	L1155	A1094	S1034	S973
S1576	S1576	ALA	ALA	ALA	ALA	ALA	ALA	M1278	M1278	A1215	T1156	Y1095	N1035	H974
V1577	V1577	PRO	PRO	PRO	PRO	PRO	PRO	Q1280	Q1280	I1216	G1157	T1096	R1036	V975
A1578	A1578	LEU	LEU	LEU	LEU	LEU	LEU	G1281	G1281	C1217	M1158	V1097	S1038	R976
M1579	M1579	PRO	PRO	PRO	PRO	PRO	PRO	LYS	LYS	G1218	T1159	T1097	D1037	L977
F1580	F1580	ARG	ARG	ARG	ARG	ARG	ARG	GLY	GLY	L1219	I1160	G1098	L1039	T978
L1581	L1581	LEU	LEU	LEU	LEU	LEU	LEU	THR	THR	Q1220	I1161	Q1099	C1040	P979
D1582	D1582	PRO	PRO	PRO	PRO	PRO	PRO	S1282	S1282	E1221	F1162	M1100	Q1041	A980
E1583	E1583	GLY	GLY	GLY	GLY	GLY	GLY	G1285	G1285	G1222	T1163	R1101	A1042	Q981
R1584	R1584	THR	THR	THR	THR	THR	THR	M1286	M1286	F1223	N1165	V1102	V1043	T982
K1585	K1585	GLY	GLY	GLY	GLY	GLY	GLY	L1287	L1287	E1224	G1166	G1103	R1044	T983
M1586	M1586	VAL	VAL	VAL	VAL	VAL	VAL	F1288	F1288	P1225	E1167	W1104	T1045	L984
P1587	P1587	ALA	ALA	ALA	ALA	ALA	ALA	L1289	L1289	A1227	S1168	A1105	R1106	V985
F1588	F1588	PRO	PRO	PRO	PRO	PRO	PRO	R1290	R1290	I1228	L1169	P1107	G1048	D986
A1589	A1589	THR	THR	THR	THR	THR	THR	L1291	L1291	M1229		E1108	Y1049	L988
P1590	P1590	ALA	ALA	ALA	ALA	ALA	ALA							A989
C1642	C1642	ALA	ALA	ALA	ALA	ALA	ALA							
E1643	E1643	GLY	GLY	GLY	GLY	GLY	GLY							
E1644	E1644	LYS	LYS	LYS	LYS	LYS	LYS							
R1645	R1645	GLY	GLY	GLY	GLY	GLY	GLY							
R1646	R1646	THR	THR	THR	THR	THR	THR							
C1647	C1647	ALA	ALA	ALA	ALA	ALA	ALA							
M1648	M1648	PRO	PRO	PRO	PRO	PRO	PRO							
W1649	W1649	LEU	LEU	LEU	LEU	LEU	LEU							
E1652	E1652	PRO	PRO	PRO	PRO	PRO	PRO							
S1654	S1654	THR	THR	THR	THR	THR	THR							
L1714	L1714													
D1700	D1700													
A1701	A1701													
H1702	H1702													
L1703	L1703													
P1704	P1704													
G1705	G1705													
F1706	F1706													
L1707	L1707													
R1708	R1708													
A1709	A1709													
G1710	G1710													
Y1711	Y1711													
Y1712	Y1712													
D1713	D1713													
L1714	L1714													

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V1783	A1784	A1785	L1786	P1787	A1788	A1789	G1790	V1791	D1856	A1792	L1728	A1794	P1795	A1796	R1797	L1798	A1801	I1802	P1803	L1804	A1805	A1806	L1807	L1808	D1809	K1810	A1811	L1812	M1814	L1815	G1816	E1817	A1818	V1819	R1820	D1821	G1822	G1823	Q1824	H1825	A1826	R1827	D1828	V1829	V1830	G1831	G1832	S1833	F1836	Q1837	F1838	V1839	P1840	V1841	L1842	K1843	L1844																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
V1845	S1846	T1847	L1848	M1851	G1852	L1853	F1854	G1855	D1856	L1857	D1858	V1859	Q1861	I1862	P1868	E1869	V1870	F1871	T1872	E1873	E1874	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	ASP	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU

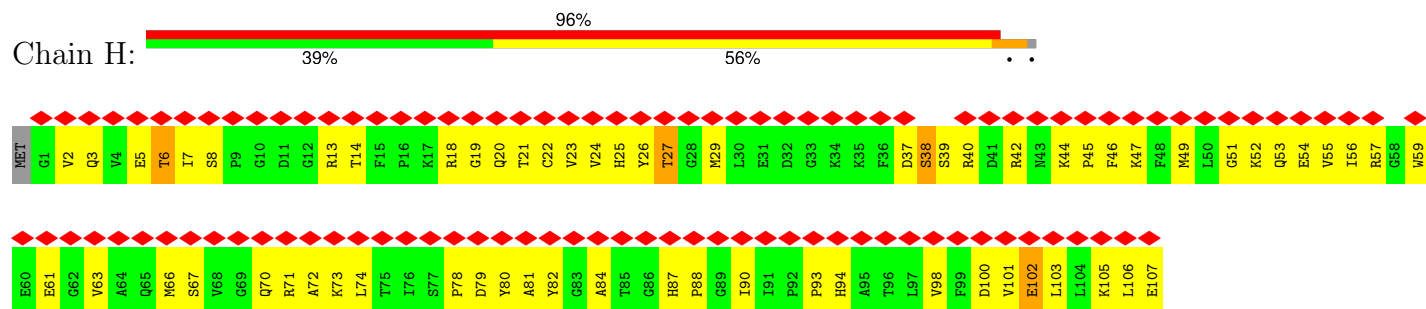
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K2551	GLU	L2912	Q2972	S3032	L3092	F3152	G3212	T3272	T3272
R2552	GLY	T2913	E2973	N3033	R3093	G3153	Y3213	T3273	T3273
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A2557	K2796	K2917	H2977	E3037	E3097	I3157	S3217	L3277	L3277
K2558	R2797	A2918	E2978	M3038	S3098	L3158	V3218	C3278	C3278
L2559	S2798	K2919	A2979	M3039	A3099	D3159	Y3219	S3279	S3279
L2560	E2799	D2920	A2980	I3039	A3099	D3160	T3220	Y3280	Y3280
L2561	K2801	E2921	V2981	T3040	S3100	V3161	T3221	L3281	L3281
L2562	K2802	K2922	S2982	L3042	D3102	Q3162	K3222	P3282	P3282
L2563	E2803	A2923	S2983	F3043	I3103	V3163	S3223	R3283	R3283
K2564	I2804	E2925	G2984	C3044	E3104	S3164	P3224	K3284	K3284
C2565	L2866	E2925	R2985	K3105	K3105	C3165	R3225	K3285	K3285
A2566	L2867	E2926	V2986	L3046	M3106	Y3166	E3226	E3286	E3286
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T2572	L2752	K2810	E2811	M2932	L3112	T3172	L3232	P3292	P3292
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V2579	A2759	A2818	A2818	T2938	G3058	THR	E3238	A3298	A3298
D2580	K2697	W2619	E2820	R2939	T3059	GLN	M3239	C3299	C3299
S2581	P2640	P2701	T2762	GLY	A3061	VAL	C3241	A3300	A3300
K2582	L2641	C2702	H2763	LEU	D3062	K3123	P3242	P3302	P3302
L2583	K2642	L2703	E2764	ASP	P3062	G3124	D3242	P3303	P3303
T2585	L2644	C2704	K2765	MET	A3063	V3125	I3243	C3304	C3304
V2586	L2644	A2705	W2766	GLU	V3064	G3126	V3245	T3305	T3305
Y2587	N2645	I2706	A2767	L2946	N3066	Q3127	L3246	A3306	A3306
R2588	N2646	A2707	F2768	D2947	C3067	H3128	R3247	V3307	V3307
L2589	H2647	G2708	D2769	T2948	Q3068	L3129	R3248	P3308	P3308
S2590	Y2648	A2709	K2770	S2949	H3068	T3130	L3249	S3309	S3309
R2591	R2650	L2710	L2771	S2950	V3069	Y3131	M3250	D3310	D3310
G2592	C2651	P2711	Q2772	I2951	F3010	T3132	A3251	H3311	H3311
L2593	W2652	P2712	N2773	E2952	T3011	K3133	D3252	L3312	L3312
K2594	K2653	D2713	N2774	K2953	H3012	V3134	N3253	N3313	N3313
L2595	Y2654	Y2714	W2775	E2895	H3013	A3135	G3254	S3314	S3314
A2598	Y2655	V2715	S2776	A2896	C3014	L3136	G3255	L3315	L3315
Q2599	C2656	D2716	Y2777	A2956	F3016	L3137	L3256	L3316	L3316
R2600	L2657	A2717	G2778	G2957	T3017	P3138	A3257	C3317	C3317
V2602	T2659	Y2718	E2779	G2898	L3018	V3139	E3258	N3318	N3318
V2603	G2660	S2719	N2780	G2899	L3019	T3140	S3259	T3319	T3319
A2662	W2661	S2720	Y2781	G2900	L2960	T3141	G3260	L3320	L3320
N2663	A2723	S2722	D2782	Y2902	Q2962	T3142	R3262	R3321	R3321
		E2783		P2903	L2963	A3022	S3263	T3323	T3323

Y4080	Y4081	T4082	P4083	P4084	P4085	G4086	L4087	S4088	S4089	K4090	K4091	D4092	P4093	Q4094	K4095	A4096	M4097	D4098	S4099	Q4100	K4101	Q4102	F4103	F4104	Q4105	P4106	E4107	F4110	S4113	C4114	A4117	D4118	E4119	M4120	E4121	F4122	I4123	M4124	F4125	E4126	E4127	F4128	A4129	M4130	R4131	E4132	Q4133	E4134	F4135	R4136	P4137	I4138	I4139	G4140	F4141	M4142								
L4012	E4015	L4016	L4017	D4018	L4019	M4023	V4024	V4025	M4026	L4027	L4028	S4029	L4030	L4031	E4032	V4036	M4037	G4038	M4039	I4040	A4041	R4042	Q4043	M4044	V4045	D4046	M4047	L4048	V4049	E4050	S4053	E4056	L4059	K4060	F4061	F4062	D4063	M4064	F4065	L4066	K4067	L4068	K4069	D4070	I4071	V4072	G4073	S4074	E4075	A4076	F4077	Q4078	D4079											
Q3946	G3947	K3948	R3949	N3950	F3951	S3952	K3953	A3954	M3955	V3956	K3958	K3959	L3965	T3966	E3967	V3968	T3969	Q3970	G3971	C3973	N3976	Q3977	L3980	A3981	H3982	S3983	R3984	I3915	I3916	V3986	T3918	V3920	V3921	V3922	L3923	L3924	R3925	L3926	Q3927	E3928	S3929	D3932	F3933	Y3934	K3935	Y3936	Y3937	S3938	G3939	K3940	D3941	Y3942	I3943											
T3881	Q3882	F3885	F3886	F3887	L3888	Q3889	L3890	L3891	C3892	E3893	G3894	H3895	S3831	Q3833	A3834	L3835	Q3836	Q3837	T3838	C3839	V3841	L3842	D3843	L3844	T3910	T3911	T3912	T3913	N3914	T3915	T3916	E3987	T3919	V3920	V3921	V3922	L3923	L3924	R3925	L3926	Q3927	E3928	S3929	D3932	F3933	Y3934	K3935	Y3936	Y3937	S3938	G3939	K3940	D3941	Y3942	I3943									
Q3946	G3947	K3948	R3949	N3950	F3951	S3952	K3953	A3954	M3955	V3956	K3958	K3959	L3965	T3966	E3967	V3968	T3969	Q3970	G3971	C3973	N3976	Q3977	L3980	A3981	H3982	S3983	R3984	I3915	I3916	V3986	T3918	V3920	V3921	V3922	L3923	L3924	R3925	L3926	Q3927	E3928	S3929	D3932	F3933	Y3934	K3935	Y3936	Y3937	S3938	G3939	K3940	D3941	Y3942	I3943											
L4012	E4015	L4016	L4017	D4018	L4019	M4023	V4024	V4025	M4026	L4027	L4028	S4029	L4030	L4031	E4032	V4036	M4037	G4038	M4039	I4040	A4041	R4042	Q4043	M4044	V4045	D4046	M4047	L4048	V4049	E4050	S4053	E4056	L4059	K4060	F4061	F4062	D4063	M4064	F4065	L4066	K4067	L4068	K4069	D4070	I4071	V4072	G4073	S4074	E4075	A4076	F4077	Q4078	D4079											
K3384	A3385	E3386	A3387	E3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	V3400	L3401	C3402	R3403	D3404	L3405	Y3406	A3407	L3408	Y3409	P3410	L3411	L3412	I3413	R3414	Y3415	V3416	L3417	N3418	N3419	R3420	ALA	GLY	ASP	ALA	GLN	SER	GLY	GLY	SER	ASP	GLN	GLU	ARG	THR	N3430	A3431	E3432	E3433	L3434	F3435	R3436	M3437	V3438	E3439	E3440	I3441	F3442	I3443
Y3444	W3445	S3446	K3447	S3448	H3449	N3450	F3451	K3452	R3453	E3454	E3455	K3456	N3457	F3458	V3459	V3460	Q3461	N3462	E3463	I3464	N3465	N3466	M3467	S3468	F3469	L3470	P3471	L3472	D3473	S3474	K3475	K3477	M3478	A3479	LYS	ALA	GLY	ASP	ALA	GLN	SER	GLY	GLY	SER	ASP	GLN	GLU	ARG	THR	N3430	A3431	E3432	E3433	L3434	F3435	R3436	M3437	V3438	E3439	E3440	I3441	F3442	I3443	
S3504	V3505	Q3506	T3507	S3508	L3509	T3510	V3511	Q3512	T3513	L3514	K3515	K3516	N3517	L3518	P3519	L3520	G3521	L3522	N3523	M3524	A3526	P3527	T3528	D3529	Q3530	D3531	L3532	L3533	M3534	L3535	A3536	K3537	T3538	R3539	Y3540	A3541	L3542	K3543	D3544	T3545	D3546	E3547	E3548	V3549	R3550	E3551	F3552	L3553	Q3554	N3555	N3556	L3557	H3558	L3559	Q3560	K3562	V3563							
E3664	G3665	S3666	P3667	S3668	L3669	R3670	W3671	Q3672	M3673	A3674	L3675	Y3676	R3677	G3678	L3679	P3680	G3681	R3682	E3683	E3684	D3685	A3686	D3687	R3648	K3649	C3650	N3651	K3652	F3653	L3654	E3655	W3661	T3662	L3663	T3664	E3665	D3666	H3667	S3668	F3669	E3670	D3671	K3672	K3673	T3674	D3675	L3676	K3679	V3613	K3614	K3615	K3616	K3617	A3618	V3619	W3620	H3621	K3622	L3623					
L3624	S3625	K3626	Q3627	R3628	R3629	K3630	A3631	V3632	V3633	A3634	C3635	F3636	R3637	M3638	T3639	P3640	L3641	Y3642	N3643	L3644	H3647	R3648	K3649	C3650	N3651	K3652	F3653	L3654	E3655	W3661	T3662	L3663	T3664	E3665	D3666	H3667	S3668	F3669	E3670	D3671	K3672	K3673	T3674	D3675	L3676	K3679	V3613	K3614	K3615	K3616	K3617	A3618	V3619	W3620	H3621	K3622	L3623							
E3688	E3689	V3690	E3691	E3692	K3693	K3694	P3695	L3698	L3701	V3702	L3703	H3704	R3707	L3710	T3711	E3712	K3713	S3714	K3715	L3716	D3717	S3718	D3719	Y3720	L3721	Y3722	M3723	A3724	Y3725	I3728	M3729	A3730	K3731	S3732	C3733	H3734	L3735	E3736	GLU	GLY	GLY	GLU	ASN	GLY	GLU	GLU	ALA	GLU	GLU	V3749	E3750	V3751	S3752											
F3763	E3764	E3765	K3766	M3767	K3768	K3769	L3770	H3771	T3772	R3773	G3774	A3775	A3776	E3777	M3778	L3780	K3781	S3782	L3783	S3784	A3785	C3786	K3787	G3788	E3789	T3790	M3793	S3796	T3797	L3798	K3799	L3800	G3801	L3802	L3803	L3804	L3805	N3806	G3807	G3808	E3811	V3812	Q3813	Q3814	K3815	M3816																		
Y3819	L3820	K3821	D3822	D3823	K3824	E3825	V3826	F3827	F3828	F3829	Q3830	S3831	L3832	Q3833	A3834	L3835	Q3836	Q3837	T3838	C3839	V3841	L3842	D3843	L3844	F3847	I3913	R3848	Q3850	E3854	G3855	L3856	G3857	M3858	V3859	N3860	E3861	D3862	G3863	T3864	V3865	L3866	N3867	R3868	Q3869	N3870	G3871	E3872	D3873	V3874	M3875	A3876	D3877	E3878	F3880										
T3881	Q3882	F3885	F3886	F3887	L3888	Q3889	L3890	L3891	C3892	E3893	G3894	H3895	S3831	Q3833	A3834	L3835	Q3836	Q3837	T3838	C3839	V3841	L3842	D3843	L3844	T3910	T3911	T3912	T3913	N3914	T3915	T3916	E3987	T3919	V3920	V3921	V3922	L3923	L3924	R3925	L3926	Q3927	E3928	S3929	D3932	F3933	Y3934	K3935	Y3936	Y3937	S3938	G3939	K3940	D3941	Y3942	I3943									
Q3946	G3947	K3948	R3949	N3950	F3951	S3952	K3953	A3954	M3955	V3956	K3958	K3959	L3965	T3966	E3967	V3968	T3969	Q3970	G3971	C3973	N3976	Q3977	L3980	A3981	H3982	S3983	R3984	I3915	I3916	V3986	T3918	V3920	V3921	V3922	L3923	L3924	R3925	L3926	Q3927	E3928	S3929	D3932	F3933	Y3934	K3935	Y3936	Y3937	S3938	G3939	K3940	D3941	Y3942	I3943											
L4012	E4015	L4016	L4017	D4018	L4019	M4023	V4024	V4025	M4026	L4027	L4028	S4029	L4030	L4031	E4032	V4036	M4037	G4038	M4039	I4040	A4041	R4042	Q4043	M4044	V4045	D4046	M4047	L4048	V4049	E4050	S4053	E4056	L4059	K4060	F4061	F4062	D4063	M4064	F4065	L4066	K4067	L4068	K4069	D4070	I4071	V4072	G4073	S4074	E4075	A4076	F4077	Q4078	D4079											
Y4080	Y4081	T4082	P4083	P4084	P4085	G4086	L4087	S4088	S4089	K4090	K4091	D4092	P4093	Q4094	K4095	A4096	M4097	D4098	S4099	Q4100	K4101	Q4102	F4103	F4104	Q4105	P4106	E4107	F4110	S4113	C4114	A4117	D4118	E4119	M4120	E4121	F4122	I4123	M4124	F4125	E4126	E4127	F4128	A4129	M4130	R4131	E4132	Q4133	E4134	F4135	R4136	P4137	I4138	I4139	G4140	F4141	M4142								

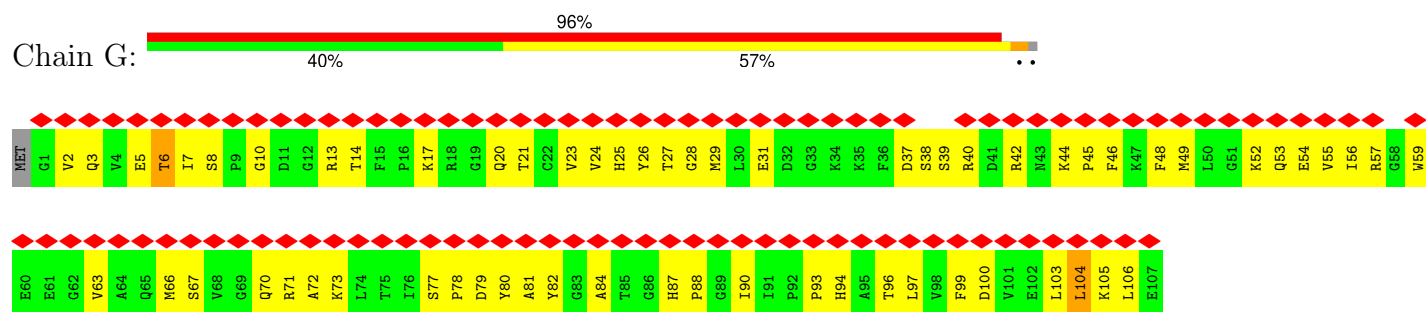




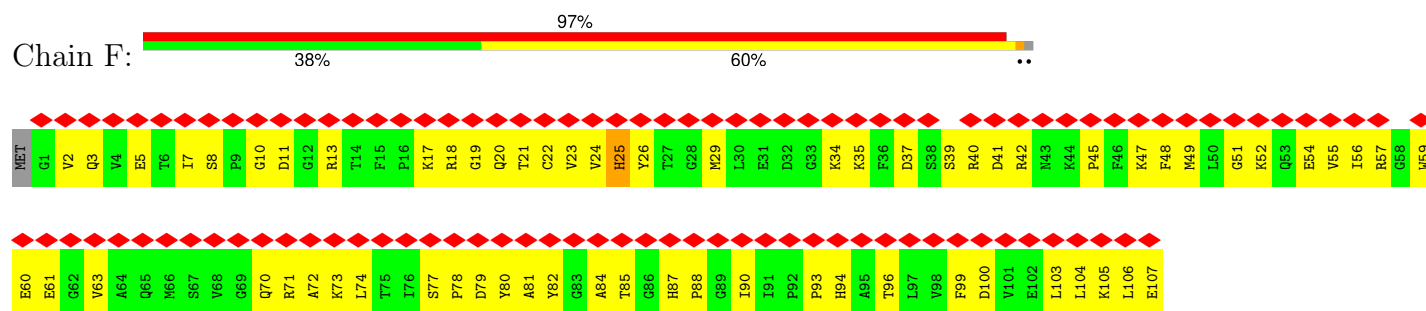
- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



- 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	17284	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.224	Depositor
Minimum map value	-0.085	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.015	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	427.008, 427.008, 427.008	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.834, 0.834, 0.834	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, ZN, ATP, A1BD2

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.19	0/35977	0.51	6/48726 (0.0%)
1	B	0.20	0/35977	0.51	6/48726 (0.0%)
1	C	0.20	0/35977	0.51	6/48726 (0.0%)
1	D	0.20	0/35977	0.51	6/48726 (0.0%)
2	E	0.21	0/850	0.60	0/1146
2	F	0.20	0/850	0.57	0/1146
2	G	0.18	0/850	0.51	0/1146
2	H	0.19	0/850	0.59	0/1146
All	All	0.20	0/147308	0.51	24/199488 (0.0%)

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	2
1	B	0	2
1	C	0	2
1	D	0	2
All	All	0	8

There are no bond length outliers.

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4876	CYS	CA-CB-SG	7.38	131.37	114.40
1	A	4876	CYS	CA-CB-SG	7.37	131.34	114.40
1	B	4876	CYS	CA-CB-SG	7.35	131.31	114.40
1	D	4876	CYS	CA-CB-SG	7.35	131.30	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2481	LYS	CA-C-N	7.10	135.10	121.54
1	D	2481	LYS	C-N-CA	7.10	135.10	121.54
1	C	2481	LYS	CA-C-N	7.09	135.08	121.54
1	C	2481	LYS	C-N-CA	7.09	135.08	121.54
1	A	2481	LYS	CA-C-N	7.08	135.07	121.54
1	A	2481	LYS	C-N-CA	7.08	135.07	121.54
1	B	2481	LYS	CA-C-N	7.07	135.04	121.54
1	B	2481	LYS	C-N-CA	7.07	135.04	121.54
1	A	3753	PHE	N-CA-C	-6.11	104.53	111.07
1	D	3753	PHE	N-CA-C	-6.07	104.57	111.07
1	B	3753	PHE	N-CA-C	-6.05	104.60	111.07
1	C	3753	PHE	N-CA-C	-6.05	104.60	111.07
1	D	2582	MET	CA-CB-CG	5.45	125.00	114.10
1	A	2582	MET	CA-CB-CG	5.45	124.99	114.10
1	B	2582	MET	CA-CB-CG	5.44	124.98	114.10
1	C	2582	MET	CA-CB-CG	5.43	124.97	114.10
1	B	4245	MET	CB-CG-SD	5.21	128.32	112.70
1	C	4245	MET	CB-CG-SD	5.20	128.31	112.70
1	A	4245	MET	CB-CG-SD	5.20	128.30	112.70
1	D	4245	MET	CB-CG-SD	5.20	128.30	112.70

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1671	ARG	Sidechain
1	A	4876	CYS	Peptide
1	B	1671	ARG	Sidechain
1	B	4876	CYS	Peptide
1	C	1671	ARG	Sidechain
1	C	4876	CYS	Peptide
1	D	1671	ARG	Sidechain
1	D	4876	CYS	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	35150	0	34793	2264	0
1	B	35150	0	34793	2262	0
1	C	35150	0	34793	2299	0
1	D	35150	0	34793	2289	0
2	E	831	0	831	73	0
2	F	831	0	830	68	0
2	G	831	0	831	76	0
2	H	831	0	831	81	0
3	A	31	0	12	1	0
3	B	31	0	12	2	0
3	C	31	0	12	2	0
3	D	31	0	12	2	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	18	0	0	1	0
6	B	18	0	0	1	0
6	C	18	0	0	1	0
6	D	18	0	0	1	0
All	All	144128	0	142543	9179	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 32.

All (9179) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:ARG:NH2	1:B:674:PHE:CE2	1.90	1.19
1:D:1220:GLN:HB3	1:C:3522:LEU:HD13	1.12	1.12
1:A:3522:LEU:HD13	1:B:1220:GLN:HB3	1.09	1.07
1:B:3522:LEU:HD13	1:C:1220:GLN:HB3	1.11	1.07
1:A:1220:GLN:HB3	1:D:3522:LEU:HD13	1.06	1.06
1:D:2423:MET:HE1	1:D:2494:PHE:HA	1.40	1.04
1:A:2423:MET:HE1	1:A:2494:PHE:HA	1.40	1.03
1:B:2423:MET:HE1	1:B:2494:PHE:HA	1.40	1.03
1:C:2423:MET:HE1	1:C:2494:PHE:HA	1.40	1.02
1:A:1208:VAL:HG21	1:D:3575:LEU:HD21	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1208:VAL:HG21	1:C:3575:LEU:HD21	1.42	1.01
1:A:1220:GLN:OE1	1:D:3522:LEU:C	2.02	1.00
1:D:1220:GLN:OE1	1:C:3522:LEU:C	2.05	1.00
1:A:4958:CYS:SG	1:A:4961:CYS:HB2	2.03	0.98
1:D:4958:CYS:SG	1:D:4961:CYS:HB2	2.03	0.98
1:C:4958:CYS:SG	1:C:4961:CYS:HB2	2.03	0.98
1:B:4958:CYS:SG	1:B:4961:CYS:HB2	2.03	0.97
2:F:40:ARG:NH2	1:B:674:PHE:CD2	2.32	0.96
1:B:3575:LEU:HD21	1:C:1208:VAL:HG21	1.47	0.96
1:B:3522:LEU:C	1:C:1220:GLN:OE1	2.09	0.95
1:A:1220:GLN:CB	1:D:3522:LEU:HD13	1.96	0.94
1:A:3522:LEU:C	1:B:1220:GLN:OE1	2.11	0.93
1:A:3575:LEU:HD21	1:B:1208:VAL:HG21	1.50	0.93
1:B:2175:GLU:HB2	1:B:2228:MET:HE1	1.50	0.93
1:A:3522:LEU:HD13	1:B:1220:GLN:CB	1.99	0.93
1:C:2175:GLU:HB2	1:C:2228:MET:HE1	1.50	0.93
2:H:88:PRO:HB2	1:D:623:GLU:OE2	1.69	0.93
1:A:2175:GLU:HB2	1:A:2228:MET:HE1	1.50	0.92
1:D:2175:GLU:HB2	1:D:2228:MET:HE1	1.50	0.91
2:H:7:ILE:HD13	2:H:71:ARG:HE	1.36	0.91
2:F:40:ARG:NH2	1:B:674:PHE:HE2	1.44	0.91
1:B:3522:LEU:HD13	1:C:1220:GLN:CB	2.01	0.90
2:G:66:MET:HE3	2:G:70:GLN:HG2	1.54	0.90
2:F:40:ARG:HH22	1:B:674:PHE:HE2	0.93	0.89
1:B:3333:THR:HA	1:B:3336:LYS:HE3	1.57	0.86
2:H:7:ILE:CG1	1:D:719:LEU:HD21	2.05	0.86
1:D:3333:THR:HA	1:D:3336:LYS:HE3	1.57	0.86
1:D:975:VAL:HB	1:D:1044:ARG:HH22	1.41	0.85
1:B:975:VAL:HB	1:B:1044:ARG:HH22	1.41	0.85
1:A:975:VAL:HB	1:A:1044:ARG:HH22	1.41	0.85
1:A:3875:MET:HB3	1:A:3878:ASP:HB3	1.58	0.85
1:C:975:VAL:HB	1:C:1044:ARG:HH22	1.42	0.85
1:A:3333:THR:HA	1:A:3336:LYS:HE3	1.57	0.84
1:C:1230:MET:SD	1:C:1827:ARG:NH2	2.50	0.84
1:C:3875:MET:HB3	1:C:3878:ASP:HB3	1.58	0.84
1:C:3333:THR:HA	1:C:3336:LYS:HE3	1.57	0.84
1:B:3875:MET:HB3	1:B:3878:ASP:HB3	1.58	0.84
1:B:1230:MET:SD	1:B:1827:ARG:NH2	2.50	0.84
1:A:1230:MET:SD	1:A:1827:ARG:NH2	2.50	0.84
1:A:2998:PHE:HA	1:A:3002:LEU:HB2	1.60	0.84
1:A:3522:LEU:HB3	1:B:1220:GLN:OE1	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:7:ILE:HG13	1:D:719:LEU:HD21	1.59	0.84
1:B:875:ALA:O	1:B:879:HIS:ND1	2.11	0.83
1:D:1220:GLN:CB	1:C:3522:LEU:HD13	2.02	0.83
1:D:1230:MET:SD	1:D:1827:ARG:NH2	2.50	0.83
1:D:2998:PHE:HA	1:D:3002:LEU:HB2	1.60	0.83
1:D:3527:PRO:HD2	1:D:3573:MET:HE1	1.60	0.83
1:C:875:ALA:O	1:C:879:HIS:ND1	2.11	0.83
1:C:2998:PHE:HA	1:C:3002:LEU:HB2	1.60	0.83
1:A:116:MET:HG2	1:A:137:LEU:HB3	1.61	0.83
1:D:1141:ARG:HH12	1:C:3478:MET:HE3	1.43	0.83
1:D:3875:MET:HB3	1:D:3878:ASP:HB3	1.58	0.83
1:A:1141:ARG:HH12	1:D:3478:MET:HE3	1.42	0.83
1:B:116:MET:HG2	1:B:137:LEU:HB3	1.61	0.83
1:C:116:MET:HG2	1:C:137:LEU:HB3	1.61	0.83
1:A:3106:MET:HE1	1:A:3129:LEU:HA	1.60	0.83
1:D:3106:MET:HE1	1:D:3129:LEU:HA	1.60	0.83
1:B:2998:PHE:HA	1:B:3002:LEU:HB2	1.60	0.83
1:C:3924:LEU:HA	1:C:3927:GLN:HE21	1.44	0.83
1:A:2233:CYS:SG	1:A:2270:SER:OG	2.38	0.82
1:A:4177:TYR:HA	1:A:4202:ARG:HH12	1.44	0.82
1:D:116:MET:HG2	1:D:137:LEU:HB3	1.61	0.82
1:D:875:ALA:O	1:D:879:HIS:ND1	2.11	0.82
1:A:3924:LEU:HA	1:A:3927:GLN:HE21	1.44	0.82
1:B:3924:LEU:HA	1:B:3927:GLN:HE21	1.44	0.82
1:A:3478:MET:HE2	1:B:1141:ARG:HH22	1.42	0.82
1:D:2233:CYS:SG	1:D:2270:SER:OG	2.38	0.82
1:D:3924:LEU:HA	1:D:3927:GLN:HE21	1.44	0.82
1:A:3527:PRO:HD2	1:A:3573:MET:HE1	1.60	0.82
1:D:1141:ARG:HH22	1:C:3478:MET:HE2	1.43	0.82
1:C:4177:TYR:HA	1:C:4202:ARG:HH12	1.44	0.82
1:B:3527:PRO:HD2	1:B:3573:MET:HE1	1.60	0.82
1:A:1208:VAL:HG21	1:D:3575:LEU:CD2	2.10	0.81
1:B:3782:MET:HE2	1:B:3797:THR:HB	1.62	0.81
2:G:40:ARG:NH1	1:C:674:PHE:CE2	2.47	0.81
1:B:3478:MET:HE2	1:C:1141:ARG:HH22	1.42	0.81
1:D:4177:TYR:HA	1:D:4202:ARG:HH12	1.44	0.81
1:A:1152:MET:HB3	1:A:1161:ILE:HB	1.63	0.81
1:B:4177:TYR:HA	1:B:4202:ARG:HH12	1.44	0.81
1:A:1141:ARG:HH22	1:D:3478:MET:HE2	1.44	0.81
1:A:3782:MET:HE2	1:A:3797:THR:HB	1.62	0.81
1:B:1152:MET:HB3	1:B:1161:ILE:HB	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:855:PRO:HG3	1:B:998:ARG:HD3	1.63	0.81
1:C:150:MET:N	1:C:150:MET:SD	2.54	0.81
1:A:150:MET:SD	1:A:150:MET:N	2.54	0.81
1:D:1152:MET:HB3	1:D:1161:ILE:HB	1.63	0.80
1:C:3106:MET:HE1	1:C:3129:LEU:HA	1.60	0.80
1:C:3527:PRO:HD2	1:C:3573:MET:HE1	1.60	0.80
2:H:49:MET:HG3	2:H:52:LYS:HB2	1.61	0.80
1:B:3106:MET:HE1	1:B:3129:LEU:HA	1.60	0.80
1:C:3782:MET:HE2	1:C:3797:THR:HB	1.63	0.80
1:A:855:PRO:HG3	1:A:998:ARG:HD3	1.63	0.80
1:D:150:MET:N	1:D:150:MET:SD	2.54	0.80
1:C:2233:CYS:SG	1:C:2270:SER:OG	2.38	0.80
1:B:150:MET:N	1:B:150:MET:SD	2.54	0.80
1:C:855:PRO:HG3	1:C:998:ARG:HD3	1.63	0.80
1:D:1220:GLN:HG3	1:C:3519:PRO:HA	1.63	0.80
1:A:1220:GLN:HG3	1:D:3519:PRO:HA	1.63	0.80
1:A:3519:PRO:HA	1:B:1220:GLN:HG3	1.64	0.80
1:C:1152:MET:HB3	1:C:1161:ILE:HB	1.63	0.80
1:D:3782:MET:HE2	1:D:3797:THR:HB	1.62	0.80
1:B:2233:CYS:SG	1:B:2270:SER:OG	2.38	0.79
1:B:2452:ARG:NH1	1:C:175:SER:HA	1.97	0.79
1:D:2386:ILE:HA	1:D:2392:ARG:HH21	1.48	0.79
1:C:2768:PHE:HA	1:C:2771:ILE:HD12	1.64	0.79
2:G:7:ILE:CG1	1:C:719:LEU:HD21	2.11	0.79
1:A:2781:VAL:HG23	1:A:2789:PRO:HD3	1.65	0.79
2:E:7:ILE:HB	2:E:71:ARG:HG2	1.63	0.79
2:E:73:LYS:HZ1	2:E:75:THR:HG23	1.46	0.79
1:A:483:MET:N	1:A:483:MET:SD	2.56	0.79
1:B:3519:PRO:HA	1:C:1220:GLN:HG3	1.63	0.79
1:A:875:ALA:O	1:A:879:HIS:ND1	2.11	0.79
1:B:3146:HIS:HD2	1:B:3147:ILE:HD12	1.48	0.79
1:A:2570:ALA:HB2	1:A:2613:TYR:HB3	1.65	0.79
1:B:483:MET:N	1:B:483:MET:SD	2.56	0.79
1:D:855:PRO:HG3	1:D:998:ARG:HD3	1.63	0.79
1:D:1208:VAL:HG21	1:C:3575:LEU:CD2	2.13	0.79
1:C:2570:ALA:HB2	1:C:2613:TYR:HB3	1.65	0.79
1:A:3146:HIS:HD2	1:A:3147:ILE:HD12	1.48	0.79
1:A:2470:ILE:HG13	1:A:2525:GLY:HA3	1.64	0.78
2:E:21:THR:HG22	2:E:49:MET:HB2	1.64	0.78
1:A:2386:ILE:HA	1:A:2392:ARG:HH21	1.48	0.78
1:D:3146:HIS:HD2	1:D:3147:ILE:HD12	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1220:GLN:OE1	1:D:3522:LEU:HB3	1.83	0.78
1:A:2768:PHE:HA	1:A:2771:ILE:HD12	1.64	0.78
1:D:483:MET:N	1:D:483:MET:SD	2.56	0.78
1:D:2781:VAL:HG23	1:D:2789:PRO:HD3	1.65	0.78
1:C:483:MET:SD	1:C:483:MET:N	2.56	0.78
1:B:2470:ILE:HG13	1:B:2525:GLY:HA3	1.64	0.78
1:B:2570:ALA:HB2	1:B:2613:TYR:HB3	1.65	0.78
1:B:2781:VAL:HG23	1:B:2789:PRO:HD3	1.65	0.78
1:D:2570:ALA:HB2	1:D:2613:TYR:HB3	1.65	0.78
1:D:3567:PRO:HA	1:D:3570:ARG:HG2	1.65	0.78
1:A:1220:GLN:HB3	1:D:3522:LEU:CD1	2.02	0.78
1:A:3890:LEU:HA	1:A:3893:GLU:HG3	1.66	0.78
2:G:7:ILE:CG1	1:C:719:LEU:CD2	2.62	0.78
1:B:3522:LEU:HB3	1:C:1220:GLN:OE1	1.82	0.78
1:A:4578:LEU:HD12	1:B:4879:MET:HG3	1.66	0.78
1:D:2609:ALA:HA	1:D:2612[B]:ARG:HD3	1.66	0.78
1:C:2781:VAL:HG23	1:C:2789:PRO:HD3	1.65	0.78
1:B:4579:PHE:HA	1:C:4880:MET:HE1	1.64	0.77
1:D:2768:PHE:HA	1:D:2771:ILE:HD12	1.64	0.77
1:C:3890:LEU:HA	1:C:3893:GLU:HG3	1.66	0.77
1:A:3567:PRO:HA	1:A:3570:ARG:HG2	1.65	0.77
1:B:2768:PHE:HA	1:B:2771:ILE:HD12	1.64	0.77
1:A:2609:ALA:HA	1:A:2612[B]:ARG:HD3	1.66	0.77
1:B:2386:ILE:HA	1:B:2392:ARG:HH21	1.48	0.77
1:B:3980:LEU:HB3	1:B:3985:LEU:HD21	1.67	0.77
1:D:2470:ILE:HG13	1:D:2525:GLY:HA3	1.64	0.77
1:A:4579:PHE:HA	1:B:4880:MET:HE1	1.66	0.77
1:C:2470:ILE:HG13	1:C:2525:GLY:HA3	1.64	0.77
1:C:3980:LEU:HB3	1:C:3985:LEU:HD21	1.67	0.77
1:A:3980:LEU:HB3	1:A:3985:LEU:HD21	1.67	0.77
1:D:2806:ARG:O	1:D:2810:LYS:HB2	1.84	0.77
1:C:4241:THR:HG22	1:C:4245:MET:HE1	1.66	0.77
1:A:1106:ARG:HE	1:A:1120:LEU:HB3	1.50	0.77
1:D:3980:LEU:HB3	1:D:3985:LEU:HD21	1.67	0.77
1:C:2386:ILE:HA	1:C:2392:ARG:HH21	1.48	0.77
1:A:2806:ARG:O	1:A:2810:LYS:HB2	1.84	0.77
1:D:4241:THR:HG22	1:D:4245:MET:HE1	1.66	0.77
1:C:1212:ARG:HE	1:C:1213:PHE:H	1.33	0.77
1:A:2265:LEU:O	1:A:2330:ARG:NH1	2.18	0.77
1:B:2609:ALA:HA	1:B:2612[B]:ARG:HD3	1.66	0.77
1:B:2806:ARG:O	1:B:2810:LYS:HB2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3478:MET:HE3	1:C:1141:ARG:HH12	1.49	0.77
1:D:1212:ARG:HE	1:D:1213:PHE:H	1.33	0.77
1:C:162:LYS:O	1:C:164:ARG:NH1	2.18	0.77
1:D:1106:ARG:HE	1:D:1120:LEU:HB3	1.50	0.77
1:A:299:LEU:HD21	1:A:357:LEU:HD13	1.68	0.76
1:A:2189:LYS:HZ3	1:A:2192:TYR:HB2	1.50	0.76
1:B:3890:LEU:HA	1:B:3893:GLU:HG3	1.66	0.76
1:C:2806:ARG:O	1:C:2810:LYS:HB2	1.84	0.76
1:C:3146:HIS:HD2	1:C:3147:ILE:HD12	1.48	0.76
1:B:2265:LEU:O	1:B:2330:ARG:NH1	2.18	0.76
1:B:3567:PRO:HA	1:B:3570:ARG:HG2	1.65	0.76
1:B:4241:THR:HG22	1:B:4245:MET:HE1	1.66	0.76
1:D:299:LEU:HD21	1:D:357:LEU:HD13	1.68	0.76
1:D:162:LYS:O	1:D:164:ARG:NH1	2.18	0.76
1:A:3839:CYS:O	1:A:3925:ARG:NH2	2.19	0.76
2:G:21:THR:HA	2:G:49:MET:HA	1.67	0.76
1:C:3567:PRO:HA	1:C:3570:ARG:HG2	1.65	0.76
1:B:3839:CYS:O	1:B:3925:ARG:NH2	2.19	0.76
1:A:4241:THR:HG22	1:A:4245:MET:HE1	1.66	0.76
1:D:2265:LEU:O	1:D:2330:ARG:NH1	2.18	0.76
1:C:2609:ALA:HA	1:C:2612[B]:ARG:HD3	1.66	0.76
1:B:156:GLN:N	1:B:156:GLN:OE1	2.18	0.76
1:D:156:GLN:OE1	1:D:156:GLN:N	2.18	0.76
1:C:4580:TYR:HD2	1:C:4632:LEU:HB2	1.51	0.76
1:A:162:LYS:O	1:A:164:ARG:NH1	2.18	0.76
1:B:1106:ARG:HE	1:B:1120:LEU:HB3	1.50	0.76
1:D:2862:LEU:HG	1:D:2864:GLY:H	1.51	0.76
1:C:156:GLN:OE1	1:C:156:GLN:N	2.18	0.76
1:A:1671:ARG:NH1	1:A:1717:SER:OG	2.19	0.76
1:A:2423:MET:HE3	1:A:2498:HIS:CE1	2.21	0.76
1:A:4580:TYR:HD2	1:A:4632:LEU:HB2	1.51	0.76
1:D:4879:MET:HG3	1:C:4578:LEU:HD12	1.68	0.76
1:C:1671:ARG:NH1	1:C:1717:SER:OG	2.19	0.76
1:A:156:GLN:OE1	1:A:156:GLN:N	2.18	0.75
1:A:1212:ARG:HE	1:A:1213:PHE:H	1.33	0.75
1:B:299:LEU:HD21	1:B:357:LEU:HD13	1.68	0.75
1:D:2423:MET:HE3	1:D:2498:HIS:CE1	2.21	0.75
1:D:3839:CYS:O	1:D:3925:ARG:NH2	2.19	0.75
1:C:1106:ARG:HE	1:C:1120:LEU:HB3	1.50	0.75
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	1.68	0.75
1:C:3839:CYS:O	1:C:3925:ARG:NH2	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:667:MET:HB3	1:B:790:ARG:HB3	1.68	0.75
1:D:175:SER:HA	1:C:2452:ARG:NH1	2.01	0.75
1:D:4006:ASP:HB3	1:D:4009:GLN:HG3	1.69	0.75
1:A:4006:ASP:HB3	1:A:4009:GLN:HG3	1.69	0.75
1:B:2423:MET:HE3	1:B:2498:HIS:CE1	2.21	0.75
1:D:1141:ARG:HH22	1:C:3478:MET:CE	1.98	0.75
1:C:3146:HIS:HA	1:C:3149:GLN:HE21	1.52	0.75
1:A:175:SER:HA	1:D:2452:ARG:NH1	2.00	0.75
1:B:162:LYS:O	1:B:164:ARG:NH1	2.18	0.75
1:B:4578:LEU:HD12	1:C:4879:MET:HG3	1.68	0.75
1:D:4580:TYR:HD2	1:D:4632:LEU:HB2	1.51	0.75
1:C:2265:LEU:O	1:C:2330:ARG:NH1	2.18	0.75
2:E:23:VAL:HG22	2:E:45:PRO:HB2	1.69	0.75
2:G:7:ILE:HG13	1:C:719:LEU:HD21	1.68	0.75
1:C:667:MET:HB3	1:C:790:ARG:HB3	1.68	0.75
1:B:1671:ARG:NH1	1:B:1717:SER:OG	2.19	0.75
1:D:3392:LEU:HA	1:D:3395:ARG:HE	1.52	0.75
1:C:299:LEU:HD21	1:C:357:LEU:HD13	1.68	0.75
2:F:49:MET:HG3	2:F:52:LYS:HB2	1.69	0.75
1:B:3146:HIS:HA	1:B:3149:GLN:HE21	1.52	0.75
1:D:667:MET:HB3	1:D:790:ARG:HB3	1.68	0.75
1:D:1671:ARG:NH1	1:D:1717:SER:OG	2.19	0.75
1:C:3392:LEU:HA	1:C:3395:ARG:HE	1.52	0.75
1:D:3890:LEU:HA	1:D:3893:GLU:HG3	1.66	0.74
1:A:2862:LEU:HG	1:A:2864:GLY:H	1.51	0.74
1:A:3146:HIS:HA	1:A:3149:GLN:HE21	1.52	0.74
1:B:1212:ARG:HE	1:B:1213:PHE:H	1.33	0.74
1:B:2862:LEU:HG	1:B:2864:GLY:H	1.51	0.74
1:C:2522:LEU:HA	1:C:2526:PHE:HB2	1.68	0.74
1:A:1141:ARG:HH22	1:D:3478:MET:CE	2.00	0.74
1:A:2452:ARG:NH1	1:B:175:SER:HA	2.01	0.74
1:A:4880:MET:HE1	1:D:4579:PHE:HA	1.70	0.74
1:B:3981:ALA:HA	1:B:3986:TRP:HZ2	1.52	0.74
1:B:4006:ASP:HB3	1:B:4009:GLN:HG3	1.69	0.74
1:A:1141:ARG:HH12	1:D:3478:MET:CE	1.99	0.74
1:D:2458:ARG:NH2	1:D:2509:VAL:O	2.21	0.74
1:C:4006:ASP:HB3	1:C:4009:GLN:HG3	1.69	0.74
1:A:667:MET:HB3	1:A:790:ARG:HB3	1.68	0.74
1:A:2522:LEU:HA	1:A:2526:PHE:HB2	1.68	0.74
1:A:2886:TRP:HA	1:A:2889:LYS:HE3	1.70	0.74
1:B:2466:LEU:HB3	1:B:2506:LEU:HD11	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4580:TYR:HD2	1:B:4632:LEU:HB2	1.51	0.74
1:A:4848:VAL:HG11	1:A:4887:MET:HB3	1.70	0.74
1:C:2423:MET:HE3	1:C:2498:HIS:CE1	2.21	0.74
1:A:2884:ASN:O	1:A:2888:ARG:HB2	1.88	0.74
1:C:3981:ALA:HA	1:C:3986:TRP:HZ2	1.52	0.74
1:B:4848:VAL:HG11	1:B:4887:MET:HB3	1.70	0.74
1:D:2884:ASN:O	1:D:2888:ARG:HB2	1.88	0.74
1:D:3146:HIS:HA	1:D:3149:GLN:HE21	1.52	0.74
1:B:2225:PHE:HB3	1:B:2228:MET:HE2	1.70	0.73
1:D:1220:GLN:OE1	1:C:3523:ASN:N	2.21	0.73
1:C:2862:LEU:HG	1:C:2864:GLY:H	1.51	0.73
1:A:3392:LEU:HA	1:A:3395:ARG:HE	1.52	0.73
2:G:23:VAL:HG22	2:G:45:PRO:HB2	1.69	0.73
1:A:3914:ASN:HB3	1:A:3917:ILE:HG12	1.71	0.73
2:F:7:ILE:HG22	1:B:737:LEU:HB2	1.70	0.73
1:C:799:GLU:O	1:C:801:LYS:NZ	2.21	0.73
1:D:758:ARG:HH11	1:D:761:GLY:H	1.36	0.73
1:D:2522:LEU:HA	1:D:2526:PHE:HB2	1.68	0.73
1:C:758:ARG:HH11	1:C:761:GLY:H	1.36	0.73
1:C:2225:PHE:HB3	1:C:2228:MET:HE2	1.70	0.73
1:C:4888:TYR:O	1:C:4892:ARG:NH1	2.22	0.73
1:A:2458:ARG:NH2	1:A:2509:VAL:O	2.21	0.73
1:A:4888:TYR:O	1:A:4892:ARG:NH1	2.22	0.73
1:A:3981:ALA:HA	1:A:3986:TRP:HZ2	1.52	0.73
1:B:2458:ARG:NH2	1:B:2509:VAL:O	2.21	0.73
1:C:426:ARG:NH1	1:C:504:ALA:O	2.22	0.73
1:A:799:GLU:O	1:A:801:LYS:NZ	2.21	0.73
1:B:3504:SER:H	1:B:3507:THR:HG1	1.36	0.73
1:B:3575:LEU:CD2	1:C:1208:VAL:HG21	2.18	0.73
1:D:174:VAL:O	1:C:2452:ARG:NH1	2.22	0.73
1:D:1939:MET:HA	1:D:1942:LEU:HG	1.71	0.73
1:C:3498:ARG:HH12	1:C:3502:ARG:HH11	1.37	0.73
1:A:2225:PHE:HB3	1:A:2228:MET:HE2	1.70	0.73
1:A:2545:GLU:HA	1:A:2548:LEU:HD12	1.71	0.73
1:A:3478:MET:HE3	1:B:1141:ARG:HH12	1.52	0.73
1:B:2578:MET:O	1:B:2578:MET:HE3	1.88	0.73
1:B:3498:ARG:HH12	1:B:3502:ARG:HH11	1.37	0.73
1:D:4888:TYR:O	1:D:4892:ARG:NH1	2.22	0.73
1:A:426:ARG:NH1	1:A:504:ALA:O	2.22	0.73
1:B:3392:LEU:HA	1:B:3395:ARG:HE	1.52	0.73
1:D:799:GLU:O	1:D:801:LYS:NZ	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3914:ASN:HB3	1:D:3917:ILE:HG12	1.71	0.73
1:C:1939:MET:HA	1:C:1942:LEU:HG	1.71	0.73
1:C:2578:MET:O	1:C:2578:MET:HE3	1.88	0.73
1:A:3017:PHE:O	1:A:3036:LYS:NZ	2.21	0.72
1:B:799:GLU:O	1:B:801:LYS:NZ	2.21	0.72
1:D:426:ARG:NH1	1:D:504:ALA:O	2.22	0.72
1:D:2886:TRP:HA	1:D:2889:LYS:HE3	1.70	0.72
1:D:2970:SER:HA	1:D:2973:PHE:CE2	2.24	0.72
1:A:1220:GLN:OE1	1:D:3523:ASN:N	2.21	0.72
1:B:3914:ASN:HB3	1:B:3917:ILE:HG12	1.71	0.72
1:D:1064:GLU:HA	1:D:1071:ARG:HH21	1.54	0.72
1:D:2578:MET:HE3	1:D:2578:MET:O	1.88	0.72
1:D:4848:VAL:HG11	1:D:4887:MET:HB3	1.70	0.72
1:C:2458:ARG:NH2	1:C:2509:VAL:O	2.21	0.72
1:C:3017:PHE:O	1:C:3036:LYS:NZ	2.21	0.72
1:A:2578:MET:HE3	1:A:2578:MET:O	1.88	0.72
1:B:1064:GLU:HA	1:B:1071:ARG:HH21	1.54	0.72
1:B:3478:MET:CE	1:C:1141:ARG:HH22	2.01	0.72
1:B:4888:TYR:O	1:B:4892:ARG:NH1	2.22	0.72
1:D:1999:ARG:NH1	1:D:3635:CYS:SG	2.63	0.72
1:D:2466:LEU:HB3	1:D:2506:LEU:HD11	1.69	0.72
2:F:11:ASP:O	2:F:13:ARG:NH1	2.23	0.72
1:B:1999:ARG:NH1	1:B:3635:CYS:SG	2.63	0.72
1:B:2545:GLU:HA	1:B:2548:LEU:HD12	1.71	0.72
1:D:1220:GLN:OE1	1:C:3522:LEU:HB3	1.87	0.72
1:D:4880:MET:HE1	1:C:4579:PHE:HA	1.71	0.72
1:C:1999:ARG:NH1	1:C:3635:CYS:SG	2.63	0.72
1:C:4848:VAL:HG11	1:C:4887:MET:HB3	1.70	0.72
1:A:1064:GLU:HA	1:A:1071:ARG:HH21	1.54	0.72
1:A:1196:PRO:O	1:A:1198:GLN:NE2	2.23	0.72
1:A:2466:LEU:HB3	1:A:2506:LEU:HD11	1.70	0.72
1:A:4879:MET:HG3	1:D:4578:LEU:HD12	1.71	0.72
2:E:66:MET:HE3	2:E:70:GLN:HG2	1.70	0.72
1:B:758:ARG:HH11	1:B:761:GLY:H	1.36	0.72
1:B:914:PRO:HB2	1:B:917:GLU:HG2	1.72	0.72
1:D:3498:ARG:HH12	1:D:3502:ARG:HH11	1.37	0.72
1:D:3981:ALA:HA	1:D:3986:TRP:HZ2	1.52	0.72
1:C:2466:LEU:HB3	1:C:2506:LEU:HD11	1.69	0.72
1:A:1091:GLU:OE2	1:A:1212:ARG:NH2	2.23	0.72
1:A:3498:ARG:HH12	1:A:3502:ARG:HH11	1.37	0.72
1:B:1091:GLU:OE2	1:B:1212:ARG:NH2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2884:ASN:O	1:B:2888:ARG:HB2	1.88	0.72
1:B:2886:TRP:HA	1:B:2889:LYS:HE3	1.70	0.72
1:C:3914:ASN:HB3	1:C:3917:ILE:HG12	1.71	0.72
1:A:1999:ARG:NH1	1:A:3635:CYS:SG	2.63	0.72
1:B:1939:MET:HA	1:B:1942:LEU:HG	1.71	0.72
1:B:2592:GLY:O	1:B:2600:ARG:NH1	2.23	0.72
1:D:3366:ARG:NH1	1:D:3366:ARG:O	2.21	0.72
1:C:2467:VAL:O	1:C:2471:SER:OG	2.08	0.72
1:C:2886:TRP:HA	1:C:2889:LYS:HE3	1.70	0.72
1:D:3222:LYS:HG2	1:D:3227:ARG:HG2	1.72	0.72
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.24	0.72
1:B:3904:ARG:NH1	1:B:3973:CYS:SG	2.62	0.72
1:B:4239:GLU:O	1:B:4242:ILE:HG13	1.90	0.72
1:D:961:MET:HE2	1:D:966:LYS:HD3	1.72	0.72
1:D:1091:GLU:OE2	1:D:1212:ARG:NH2	2.23	0.72
1:D:2225:PHE:HB3	1:D:2228:MET:HE2	1.70	0.72
1:D:3904:ARG:NH1	1:D:3973:CYS:SG	2.62	0.72
1:D:4239:GLU:O	1:D:4242:ILE:HG13	1.90	0.72
1:A:2970:SER:HA	1:A:2973:PHE:CE2	2.24	0.71
1:C:914:PRO:HB2	1:C:917:GLU:HG2	1.72	0.71
1:C:1259:ARG:NH2	1:C:1595:LEU:O	2.23	0.71
1:C:2970:SER:HA	1:C:2973:PHE:CE2	2.24	0.71
1:A:1259:ARG:NH2	1:A:1595:LEU:O	2.23	0.71
1:B:2467:VAL:O	1:B:2471:SER:OG	2.08	0.71
1:D:1259:ARG:NH2	1:D:1595:LEU:O	2.23	0.71
1:C:2884:ASN:O	1:C:2888:ARG:HB2	1.88	0.71
1:A:241:GLN:O	1:A:243:ARG:NH2	2.23	0.71
1:A:1939:MET:HA	1:A:1942:LEU:HG	1.71	0.71
1:A:3222:LYS:HG2	1:A:3227:ARG:HG2	1.72	0.71
1:A:3603:LEU:HA	1:A:3606:LEU:HD12	1.73	0.71
1:B:3366:ARG:NH1	1:B:3366:ARG:O	2.21	0.71
1:B:3603:LEU:HA	1:B:3606:LEU:HD12	1.73	0.71
1:D:2025:GLU:HA	1:D:2028:ARG:HE	1.55	0.71
1:D:2467:VAL:O	1:D:2471:SER:OG	2.08	0.71
1:C:533:ASN:HB3	1:C:536:ASN:HB2	1.72	0.71
1:C:1064:GLU:HA	1:C:1071:ARG:HH21	1.54	0.71
1:C:2025:GLU:HA	1:C:2028:ARG:HE	1.55	0.71
1:A:1208:VAL:CG2	1:D:3575:LEU:HD21	2.18	0.71
1:A:3366:ARG:NH1	1:A:3366:ARG:O	2.21	0.71
1:B:2025:GLU:HA	1:B:2028:ARG:HE	1.55	0.71
1:D:451:TYR:CZ	1:D:474:ARG:HD3	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:663:TYR:HE1	1:C:745:SER:HB2	1.56	0.71
1:C:2577:ILE:HD12	1:C:2578:MET:H	1.56	0.71
1:C:3904:ARG:NH1	1:C:3973:CYS:SG	2.62	0.71
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.72	0.71
1:B:1434:TYR:HB3	1:B:1572:ILE:HG21	1.73	0.71
1:D:1434:TYR:HB3	1:D:1572:ILE:HG21	1.73	0.71
1:C:2545:GLU:HA	1:C:2548:LEU:HD12	1.71	0.71
1:A:533:ASN:HB3	1:A:536:ASN:HB2	1.72	0.71
1:B:451:TYR:CZ	1:B:474:ARG:HD3	2.25	0.71
1:B:1259:ARG:NH2	1:B:1595:LEU:O	2.23	0.71
1:B:3017:PHE:O	1:B:3036:LYS:NZ	2.21	0.71
1:D:2545:GLU:HA	1:D:2548:LEU:HD12	1.71	0.71
1:D:2577:ILE:HD12	1:D:2578:MET:H	1.56	0.71
1:D:3603:LEU:HA	1:D:3606:LEU:HD12	1.73	0.71
1:C:451:TYR:CZ	1:C:474:ARG:HD3	2.25	0.71
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.72	0.71
1:C:3366:ARG:NH1	1:C:3366:ARG:O	2.21	0.71
1:C:961:MET:HE2	1:C:966:LYS:HD3	1.72	0.71
1:C:1196:PRO:O	1:C:1198:GLN:NE2	2.23	0.71
1:C:2545:GLU:N	1:C:2545:GLU:OE2	2.24	0.71
1:C:3222:LYS:HG2	1:C:3227:ARG:HG2	1.72	0.71
1:A:1434:TYR:HB3	1:A:1572:ILE:HG21	1.73	0.71
1:A:2577:ILE:HD12	1:A:2578:MET:H	1.56	0.71
1:A:3478:MET:CE	1:B:1141:ARG:HH22	2.03	0.71
1:B:241:GLN:O	1:B:243:ARG:NH2	2.23	0.71
1:B:533:ASN:HB3	1:B:536:ASN:HB2	1.72	0.71
1:D:1141:ARG:HH12	1:C:3478:MET:CE	2.03	0.71
1:C:3603:LEU:HA	1:C:3606:LEU:HD12	1.73	0.71
1:A:451:TYR:CZ	1:A:474:ARG:HD3	2.25	0.71
1:A:758:ARG:HH11	1:A:761:GLY:H	1.36	0.71
1:A:2467:VAL:O	1:A:2471:SER:OG	2.08	0.71
1:B:516:LYS:NZ	1:B:555:GLU:O	2.24	0.71
1:C:1434:TYR:HB3	1:C:1572:ILE:HG21	1.73	0.71
1:C:2489:LYS:NZ	1:C:2491:SER:OG	2.22	0.71
1:A:1676:LEU:HD21	1:A:2168:VAL:HG23	1.73	0.70
2:F:57:ARG:HH22	2:F:80:TYR:HA	1.55	0.70
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.72	0.70
1:B:1196:PRO:O	1:B:1198:GLN:NE2	2.23	0.70
1:C:1676:LEU:HD21	1:C:2168:VAL:HG23	1.73	0.70
1:A:1463:ASN:O	1:A:1468:LYS:NZ	2.24	0.70
1:B:438:ILE:O	1:B:442:ILE:HG12	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:663:TYR:HE1	1:B:745:SER:HB2	1.55	0.70
1:B:2930:LEU:HD22	1:B:2936:ALA:HB2	1.73	0.70
1:B:3222:LYS:HG2	1:B:3227:ARG:HG2	1.72	0.70
1:B:3261:ALA:HB3	1:B:3266:MET:HE1	1.72	0.70
1:B:4098:ASP:O	1:B:4101:LYS:NZ	2.23	0.70
1:D:533:ASN:HB3	1:D:536:ASN:HB2	1.72	0.70
1:D:3017:PHE:O	1:D:3036:LYS:NZ	2.21	0.70
1:A:2545:GLU:N	1:A:2545:GLU:OE2	2.24	0.70
1:B:1573:MET:N	1:B:1573:MET:SD	2.64	0.70
1:D:438:ILE:O	1:D:442:ILE:HG12	1.91	0.70
1:D:516:LYS:NZ	1:D:555:GLU:O	2.24	0.70
1:D:2013:LYS:HZ1	1:D:3665:GLU:HB2	1.56	0.70
1:C:1091:GLU:OE2	1:C:1212:ARG:NH2	2.23	0.70
1:B:2189:LYS:HZ3	1:B:2192:TYR:HB2	1.54	0.70
1:B:2538:THR:HB	1:B:2541:PHE:HB2	1.74	0.70
1:B:2545:GLU:N	1:B:2545:GLU:OE2	2.24	0.70
1:B:4627:MET:HE3	1:B:4627:MET:H	1.56	0.70
1:D:826:ILE:HG13	1:D:827:LYS:HD2	1.74	0.70
1:C:1573:MET:N	1:C:1573:MET:SD	2.64	0.70
1:A:961:MET:HE2	1:A:966:LYS:HD3	1.72	0.70
1:A:4239:GLU:O	1:A:4242:ILE:HG13	1.90	0.70
1:B:213:TYR:HA	1:B:340:LYS:HA	1.74	0.70
1:B:4634:GLU:OE1	1:B:4636:THR:N	2.24	0.70
1:C:2538:THR:HB	1:C:2541:PHE:HB2	1.74	0.70
1:A:4627:MET:H	1:A:4627:MET:HE3	1.55	0.70
1:D:213:TYR:HA	1:D:340:LYS:HA	1.74	0.70
1:D:4634:GLU:OE1	1:D:4636:THR:N	2.24	0.70
1:C:826:ILE:HG13	1:C:827:LYS:HD2	1.74	0.70
1:C:4239:GLU:O	1:C:4242:ILE:HG13	1.90	0.70
1:C:4627:MET:HE3	1:C:4627:MET:H	1.55	0.70
1:A:2930:LEU:HD22	1:A:2936:ALA:HB2	1.73	0.70
1:B:4041:ALA:HA	1:B:4044:MET:HG2	1.73	0.70
1:D:1573:MET:N	1:D:1573:MET:SD	2.64	0.70
1:A:2013:LYS:HZ1	1:A:3665:GLU:HB2	1.56	0.70
1:A:2025:GLU:HA	1:A:2028:ARG:HE	1.55	0.70
1:D:2545:GLU:N	1:D:2545:GLU:OE2	2.24	0.70
1:D:3261:ALA:HB3	1:D:3266:MET:HE1	1.72	0.70
1:C:438:ILE:O	1:C:442:ILE:HG12	1.91	0.70
1:C:516:LYS:NZ	1:C:555:GLU:O	2.24	0.70
1:A:914:PRO:HB2	1:A:917:GLU:HG2	1.72	0.70
1:A:3575:LEU:CD2	1:B:1208:VAL:HG21	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2742:THR:OG1	1:B:2814:LYS:O	2.10	0.70
1:B:3769:ARG:O	1:B:3773:ARG:NH1	2.25	0.70
1:D:2538:THR:HB	1:D:2541:PHE:HB2	1.74	0.70
1:C:213:TYR:HA	1:C:340:LYS:HA	1.74	0.70
1:C:2189:LYS:HZ3	1:C:2192:TYR:HB2	1.57	0.70
1:C:3261:ALA:HB3	1:C:3266:MET:HE1	1.72	0.70
1:A:438:ILE:O	1:A:442:ILE:HG12	1.91	0.70
1:A:516:LYS:NZ	1:A:555:GLU:O	2.24	0.70
1:B:27:THR:HA	1:B:32:GLN:HA	1.73	0.70
1:B:961:MET:HE2	1:B:966:LYS:HD3	1.72	0.70
1:D:914:PRO:HB2	1:D:917:GLU:HG2	1.72	0.70
1:D:1220:GLN:HB3	1:C:3522:LEU:CD1	2.07	0.70
1:C:317:ARG:O	1:C:347:PHE:N	2.22	0.70
1:C:707:VAL:HG23	1:C:782:SER:HB2	1.74	0.70
1:C:3065:VAL:HA	1:C:3068:LEU:HD12	1.73	0.70
1:A:4634:GLU:OE1	1:A:4636:THR:N	2.24	0.69
2:H:79:ASP:OD2	2:H:80:TYR:N	2.25	0.69
1:D:3065:VAL:HA	1:D:3068:LEU:HD12	1.73	0.69
1:D:4627:MET:HE3	1:D:4627:MET:H	1.55	0.69
1:C:2965:ARG:HH22	1:C:2966:TRP:CD1	2.10	0.69
1:C:3769:ARG:O	1:C:3773:ARG:NH1	2.25	0.69
1:A:199:LEU:HD12	1:A:200:TRP:H	1.56	0.69
1:A:1573:MET:N	1:A:1573:MET:SD	2.64	0.69
1:A:2538:THR:HB	1:A:2541:PHE:HB2	1.74	0.69
1:B:199:LEU:HD12	1:B:200:TRP:H	1.56	0.69
1:D:241:GLN:O	1:D:243:ARG:NH2	2.23	0.69
1:D:663:TYR:HE1	1:D:745:SER:HB2	1.56	0.69
1:D:1676:LEU:HD21	1:D:2168:VAL:HG23	1.73	0.69
1:D:2930:LEU:HD22	1:D:2936:ALA:HB2	1.73	0.69
1:C:2013:LYS:HZ1	1:C:3665:GLU:HB2	1.57	0.69
1:A:2888:ARG:O	1:A:2892:GLN:NE2	2.26	0.69
1:A:4041:ALA:HA	1:A:4044:MET:HG2	1.73	0.69
2:E:40:ARG:HH21	2:E:102:GLU:HG2	1.55	0.69
2:H:7:ILE:HD11	2:H:73:LYS:HG3	1.74	0.69
1:B:127:MET:N	1:B:127:MET:SD	2.64	0.69
1:C:2930:LEU:HD22	1:C:2936:ALA:HB2	1.73	0.69
1:A:826:ILE:HG13	1:A:827:LYS:HD2	1.74	0.69
1:B:1676:LEU:HD21	1:B:2168:VAL:HG23	1.73	0.69
1:B:2489:LYS:NZ	1:B:2491:SER:OG	2.22	0.69
1:B:2965:ARG:HH22	1:B:2966:TRP:CD1	2.10	0.69
1:D:1196:PRO:O	1:D:1198:GLN:NE2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2965:ARG:HH22	1:D:2966:TRP:CD1	2.10	0.69
1:C:2355:ARG:O	1:C:2359:ARG:HG2	1.93	0.69
1:A:1216:ILE:HA	1:D:3424:LEU:HD13	1.73	0.69
1:A:3261:ALA:HB3	1:A:3266:MET:HE1	1.72	0.69
1:A:3904:ARG:NH1	1:A:3973:CYS:SG	2.62	0.69
1:B:4874:MET:HA	1:B:4874:MET:HE3	1.74	0.69
1:C:1463:ASN:O	1:C:1468:LYS:NZ	2.24	0.69
1:C:4634:GLU:OE1	1:C:4636:THR:N	2.24	0.69
1:A:1302:ARG:NH1	1:A:1303:CYS:O	2.26	0.69
1:A:3065:VAL:HA	1:A:3068:LEU:HD12	1.73	0.69
1:A:3522:LEU:CD1	1:B:1220:GLN:HB3	2.05	0.69
1:B:357:LEU:HD11	1:B:376:ALA:HB1	1.74	0.69
1:B:393:CYS:SG	1:B:394:GLN:N	2.66	0.69
1:B:826:ILE:HG13	1:B:827:LYS:HD2	1.74	0.69
1:B:1302:ARG:NH1	1:B:1303:CYS:O	2.26	0.69
1:C:1302:ARG:NH1	1:C:1303:CYS:O	2.26	0.69
1:C:2742:THR:OG1	1:C:2814:LYS:O	2.10	0.69
1:C:4041:ALA:HA	1:C:4044:MET:HG2	1.73	0.69
1:A:4684:ASP:OD1	1:A:4684:ASP:N	2.25	0.69
1:A:4874:MET:HA	1:A:4874:MET:HE3	1.74	0.69
2:G:54:GLU:N	2:G:54:GLU:OE1	2.26	0.69
1:B:426:ARG:NH1	1:B:504:ALA:O	2.22	0.69
1:B:1463:ASN:O	1:B:1468:LYS:NZ	2.24	0.69
1:B:2452:ARG:NH1	1:C:174:VAL:O	2.25	0.69
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.72	0.69
1:D:1216:ILE:HA	1:C:3424:LEU:HD13	1.74	0.69
1:D:2519:LEU:HD13	1:D:2575:ARG:HG3	1.75	0.69
1:C:27:THR:HA	1:C:32:GLN:HA	1.73	0.69
1:C:199:LEU:HD12	1:C:200:TRP:H	1.56	0.69
1:C:3504:SER:H	1:C:3507:THR:HG1	1.40	0.69
1:A:145:ALA:HB2	1:A:175:SER:HB2	1.75	0.69
1:A:213:TYR:HA	1:A:340:LYS:HA	1.74	0.69
1:A:663:TYR:HE1	1:A:745:SER:HB2	1.55	0.69
1:A:2355:ARG:O	1:A:2359:ARG:HG2	1.93	0.69
1:A:2742:THR:OG1	1:A:2814:LYS:O	2.10	0.69
1:A:3145:GLN:HG3	1:A:3196:ARG:HE	1.57	0.69
1:A:3169:LEU:HD12	1:A:3172:ILE:HD11	1.74	0.69
2:E:79:ASP:OD2	2:E:80:TYR:N	2.26	0.69
1:B:145:ALA:HB2	1:B:175:SER:HB2	1.75	0.69
1:B:2519:LEU:HD13	1:B:2575:ARG:HG3	1.75	0.69
1:B:2577:ILE:HD12	1:B:2578:MET:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3424:LEU:HD13	1:C:1216:ILE:HA	1.75	0.69
1:B:4692:PRO:HG3	1:B:4703:ARG:HD2	1.75	0.69
1:D:145:ALA:HB2	1:D:175:SER:HB2	1.75	0.69
1:D:2442:LEU:H	1:D:2444:GLN:NE2	1.91	0.69
1:D:3169:LEU:HD12	1:D:3172:ILE:HD11	1.75	0.69
1:D:3769:ARG:O	1:D:3773:ARG:NH1	2.25	0.69
1:D:4684:ASP:OD1	1:D:4684:ASP:N	2.25	0.69
1:D:4874:MET:HA	1:D:4874:MET:HE3	1.74	0.69
1:C:127:MET:SD	1:C:127:MET:N	2.64	0.69
1:C:2888:ARG:O	1:C:2892:GLN:NE2	2.26	0.69
1:A:357:LEU:HD11	1:A:376:ALA:HB1	1.74	0.69
1:A:2442:LEU:H	1:A:2444:GLN:NE2	1.91	0.69
1:B:3478:MET:CE	1:C:1141:ARG:HH12	2.06	0.69
1:B:3875:MET:HE2	1:B:3875:MET:H	1.57	0.69
1:D:1208:VAL:CG2	1:C:3575:LEU:HD21	2.22	0.69
1:D:4041:ALA:HA	1:D:4044:MET:HG2	1.73	0.69
1:A:27:THR:HA	1:A:32:GLN:HA	1.73	0.69
1:A:393:CYS:SG	1:A:394:GLN:N	2.66	0.69
1:A:2965:ARG:HH22	1:A:2966:TRP:CD1	2.10	0.69
2:E:11:ASP:O	2:E:13:ARG:NH1	2.26	0.69
2:H:23:VAL:HG22	2:H:45:PRO:HB2	1.75	0.69
1:B:2259:GLU:OE2	1:B:2260:ASN:ND2	2.26	0.69
1:B:2442:LEU:H	1:B:2444:GLN:NE2	1.91	0.69
1:D:562:GLU:OE2	1:D:598:LYS:NZ	2.26	0.69
1:D:707:VAL:HG23	1:D:782:SER:HB2	1.74	0.69
1:D:2888:ARG:O	1:D:2892:GLN:NE2	2.26	0.69
1:D:3875:MET:H	1:D:3875:MET:HE2	1.57	0.69
1:C:4874:MET:HA	1:C:4874:MET:HE3	1.74	0.69
2:G:79:ASP:OD2	2:G:80:TYR:N	2.26	0.68
1:B:2365:GLY:O	1:B:2369[B]:ARG:NH1	2.26	0.68
1:B:3065:VAL:HA	1:B:3068:LEU:HD12	1.73	0.68
1:B:4684:ASP:OD1	1:B:4684:ASP:N	2.25	0.68
1:D:172:VAL:HG13	1:D:179:TYR:CD1	2.29	0.68
1:D:2365:GLY:O	1:D:2369[B]:ARG:NH1	2.26	0.68
1:D:3676:ASP:HA	1:D:3679:LYS:HE3	1.76	0.68
1:C:2416:VAL:HG22	1:C:2491:SER:HB2	1.75	0.68
1:A:3769:ARG:O	1:A:3773:ARG:NH1	2.25	0.68
1:A:4692:PRO:HG3	1:A:4703:ARG:HD2	1.75	0.68
2:E:78:PRO:HD3	2:E:96:THR:HG22	1.75	0.68
2:G:7:ILE:HG12	1:C:719:LEU:CD2	2.23	0.68
2:G:78:PRO:HD3	2:G:96:THR:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:707:VAL:HG23	1:B:782:SER:HB2	1.74	0.68
1:B:1804:LEU:HB3	1:B:1853:ILE:HG21	1.75	0.68
1:D:2519:LEU:HA	1:D:2522:LEU:HD12	1.75	0.68
1:C:241:GLN:O	1:C:243:ARG:NH2	2.23	0.68
1:C:2442:LEU:H	1:C:2444:GLN:NE2	1.91	0.68
1:C:3145:GLN:HG3	1:C:3196:ARG:HE	1.57	0.68
1:A:174:VAL:O	1:D:2452:ARG:NH1	2.26	0.68
1:A:233:ILE:O	1:A:257:ARG:NH2	2.21	0.68
1:B:3523:ASN:N	1:C:1220:GLN:OE1	2.26	0.68
1:D:2742:THR:OG1	1:D:2814:LYS:O	2.10	0.68
1:C:562:GLU:OE2	1:C:598:LYS:NZ	2.26	0.68
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.27	0.68
1:A:2788:HIS:HB3	1:A:2790:MET:HG3	1.76	0.68
1:D:27:THR:HA	1:D:32:GLN:HA	1.73	0.68
1:D:393:CYS:SG	1:D:394:GLN:N	2.66	0.68
1:D:1302:ARG:NH1	1:D:1303:CYS:O	2.26	0.68
1:C:2365:GLY:O	1:C:2369[B]:ARG:NH1	2.26	0.68
1:C:3676:ASP:HA	1:C:3679:LYS:HE3	1.76	0.68
1:B:2013:LYS:HZ1	1:B:3665:GLU:HB2	1.59	0.68
1:D:357:LEU:HD11	1:D:376:ALA:HB1	1.74	0.68
1:C:145:ALA:HB2	1:C:175:SER:HB2	1.75	0.68
1:C:172:VAL:HG13	1:C:179:TYR:CD1	2.29	0.68
1:A:707:VAL:HG23	1:A:782:SER:HB2	1.74	0.68
1:A:2365:GLY:O	1:A:2369[B]:ARG:NH1	2.26	0.68
1:D:199:LEU:HD12	1:D:200:TRP:H	1.56	0.68
1:D:317:ARG:O	1:D:347:PHE:N	2.22	0.68
1:D:2441:HIS:HA	1:D:2444:GLN:HE21	1.59	0.68
1:D:3376:GLU:HA	1:D:3379:LEU:HD12	1.76	0.68
1:C:393:CYS:SG	1:C:394:GLN:N	2.66	0.68
1:C:3801:GLY:HA3	1:C:3887:PHE:HE2	1.59	0.68
1:D:2592:GLY:O	1:D:2600:ARG:NH1	2.23	0.68
1:A:3070:ILE:HG12	1:A:3073:ARG:HH21	1.59	0.68
1:A:3424:LEU:HD13	1:B:1216:ILE:HA	1.74	0.68
1:B:562:GLU:OE2	1:B:598:LYS:NZ	2.26	0.68
1:D:2355:ARG:O	1:D:2359:ARG:HG2	1.93	0.68
1:D:3145:GLN:HG3	1:D:3196:ARG:HE	1.57	0.68
1:C:842:PRO:O	1:C:1197:GLY:N	2.27	0.68
1:C:1101:ARG:NH1	1:C:1114:GLU:OE2	2.27	0.68
1:C:1290:ARG:O	1:C:1598:GLN:N	2.24	0.68
1:C:2369[B]:ARG:HB3	1:C:2373:GLY:HA2	1.76	0.68
1:C:3169:LEU:HD12	1:C:3172:ILE:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4684:ASP:N	1:C:4684:ASP:OD1	2.25	0.68
1:A:172:VAL:HG13	1:A:179:TYR:CD1	2.29	0.68
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.27	0.68
1:B:2416:VAL:HG22	1:B:2491:SER:HB2	1.75	0.68
1:B:2441:HIS:HA	1:B:2444:GLN:HE21	1.59	0.68
1:B:2788:HIS:HB3	1:B:2790:MET:HG3	1.76	0.68
1:B:3169:LEU:HD12	1:B:3172:ILE:HD11	1.75	0.68
1:B:4904:PRO:HB3	1:B:4913:ARG:HG2	1.76	0.68
1:D:2259:GLU:OE2	1:D:2260:ASN:ND2	2.26	0.68
1:C:357:LEU:HD11	1:C:376:ALA:HB1	1.74	0.68
1:C:1804:LEU:HB3	1:C:1853:ILE:HG21	1.75	0.68
1:A:4904:PRO:HB3	1:A:4913:ARG:HG2	1.76	0.67
1:B:172:VAL:HG13	1:B:179:TYR:CD1	2.29	0.67
1:B:2355:ARG:O	1:B:2359:ARG:HG2	1.93	0.67
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.75	0.67
1:C:4904:PRO:HB3	1:C:4913:ARG:HG2	1.76	0.67
1:A:2519:LEU:HD13	1:A:2575:ARG:HG3	1.75	0.67
1:B:2358:ILE:HG13	1:B:2359:ARG:HE	1.59	0.67
1:B:2369[B]:ARG:HB3	1:B:2373:GLY:HA2	1.76	0.67
1:B:3801:GLY:HA3	1:B:3887:PHE:HE2	1.59	0.67
1:B:3921:ASP:HA	1:B:3924:LEU:HD12	1.76	0.67
1:D:4098:ASP:O	1:D:4101:LYS:NZ	2.23	0.67
1:C:3921:ASP:HA	1:C:3924:LEU:HD12	1.76	0.67
1:A:562:GLU:OE2	1:A:598:LYS:NZ	2.26	0.67
1:A:2259:GLU:OE2	1:A:2260:ASN:ND2	2.26	0.67
1:A:3676:ASP:HA	1:A:3679:LYS:HE3	1.75	0.67
1:B:3145:GLN:HG3	1:B:3196:ARG:HE	1.57	0.67
1:D:504:ALA:O	1:D:508:GLY:N	2.27	0.67
1:C:4692:PRO:HG3	1:C:4703:ARG:HD2	1.75	0.67
1:A:1804:LEU:HB3	1:A:1853:ILE:HG21	1.75	0.67
1:A:2369[B]:ARG:HB3	1:A:2373:GLY:HA2	1.76	0.67
1:A:2416:VAL:HG22	1:A:2491:SER:HB2	1.75	0.67
1:A:3376:GLU:HA	1:A:3379:LEU:HD12	1.76	0.67
1:B:299:LEU:HD23	1:B:378:LEU:HG	1.76	0.67
1:B:3281:LEU:HD21	1:B:3312:LEU:HA	1.77	0.67
1:C:2259:GLU:OE2	1:C:2260:ASN:ND2	2.26	0.67
1:C:2694:GLU:HG2	1:C:2697:ARG:HE	1.60	0.67
1:C:3021:PRO:HD3	1:C:3030:HIS:CE1	2.30	0.67
1:C:3376:GLU:HA	1:C:3379:LEU:HD12	1.76	0.67
2:F:79:ASP:OD1	2:F:80:TYR:N	2.26	0.67
1:B:818:ARG:HD2	1:B:1028:ASP:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3021:PRO:HD3	1:B:3030:HIS:CE1	2.30	0.67
1:D:4692:PRO:HG3	1:D:4703:ARG:HD2	1.75	0.67
1:A:2519:LEU:HA	1:A:2522:LEU:HD12	1.75	0.67
1:A:3281:LEU:HD21	1:A:3312:LEU:HA	1.77	0.67
1:A:3478:MET:CE	1:B:1141:ARG:HH12	2.07	0.67
1:B:3395:ARG:HA	1:B:3454:GLU:OE1	1.95	0.67
1:B:3676:ASP:HA	1:B:3679:LYS:HE3	1.75	0.67
1:B:4954:MET:HE1	1:B:4959:PHE:HB2	1.77	0.67
1:D:2467:VAL:HG13	1:D:2524:VAL:HG21	1.77	0.67
1:D:3281:LEU:HD21	1:D:3312:LEU:HA	1.77	0.67
1:D:4904:PRO:HB3	1:D:4913:ARG:HG2	1.76	0.67
1:C:2467:VAL:HG13	1:C:2524:VAL:HG21	1.77	0.67
1:C:2519:LEU:HA	1:C:2522:LEU:HD12	1.75	0.67
1:C:3281:LEU:HD21	1:C:3312:LEU:HA	1.77	0.67
1:A:127:MET:SD	1:A:127:MET:N	2.64	0.67
1:A:1203:ASN:HB3	1:A:1211:LEU:HD21	1.77	0.67
1:A:3801:GLY:HA3	1:A:3887:PHE:HE2	1.59	0.67
2:H:7:ILE:HB	2:H:71:ARG:HG3	1.76	0.67
1:D:1221:GLU:OE2	1:D:1221:GLU:N	2.27	0.67
1:D:2788:HIS:HB3	1:D:2790:MET:HG3	1.76	0.67
1:D:3395:ARG:HA	1:D:3454:GLU:OE1	1.95	0.67
1:D:3801:GLY:HA3	1:D:3887:PHE:HE2	1.59	0.67
1:C:2788:HIS:HB3	1:C:2790:MET:HG3	1.76	0.67
1:C:3070:ILE:HG12	1:C:3073:ARG:HH21	1.59	0.67
1:C:4954:MET:HE1	1:C:4959:PHE:HB2	1.77	0.67
1:B:183:SER:O	1:B:186:SER:OG	2.12	0.67
1:B:891:TRP:HA	1:B:902:ARG:HE	1.60	0.67
1:B:3206:LEU:HB3	1:B:3246:LEU:HB3	1.77	0.67
1:D:233:ILE:O	1:D:257:ARG:NH2	2.21	0.67
1:C:2358:ILE:HG13	1:C:2359:ARG:HE	1.59	0.67
1:C:3875:MET:H	1:C:3875:MET:HE2	1.58	0.67
1:A:2358:ILE:HG13	1:A:2359:ARG:HE	1.59	0.67
1:A:2441:HIS:HA	1:A:2444:GLN:HE21	1.59	0.67
1:A:2470:ILE:HD12	1:A:2499:LYS:HE2	1.77	0.67
1:A:2592:GLY:O	1:A:2600:ARG:NH1	2.23	0.67
1:A:3875:MET:H	1:A:3875:MET:HE2	1.58	0.67
1:B:3780:LEU:HA	1:B:3783:ILE:HD12	1.77	0.67
1:D:818:ARG:HD2	1:D:1028:ASP:HA	1.76	0.67
1:D:2163:ARG:HA	1:D:2166:LEU:HD12	1.77	0.67
1:C:3731:LYS:HA	1:C:3734:HIS:CE1	2.30	0.67
1:A:1208:VAL:HG11	1:D:3575:LEU:HD21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:899:ASP:O	1:D:902:ARG:NH1	2.28	0.67
1:D:3921:ASP:HA	1:D:3924:LEU:HD12	1.76	0.67
1:A:296:ASP:OD2	1:A:297:GLN:NE2	2.28	0.66
1:A:2163:ARG:HA	1:A:2166:LEU:HD12	1.77	0.66
1:A:4197:ILE:O	1:A:4202:ARG:NH2	2.29	0.66
2:H:73:LYS:CE	1:D:719:LEU:HD23	2.25	0.66
1:B:2888:ARG:O	1:B:2892:GLN:NE2	2.26	0.66
1:B:3731:LYS:HA	1:B:3734:HIS:CE1	2.30	0.66
1:D:2110:TYR:O	1:D:2112:GLN:NE2	2.28	0.66
1:D:2470:ILE:HD12	1:D:2499:LYS:HE2	1.77	0.66
1:D:3070:ILE:HG12	1:D:3073:ARG:HH21	1.59	0.66
1:C:2163:ARG:HA	1:C:2166:LEU:HD12	1.77	0.66
2:F:23:VAL:HG23	2:F:47:LYS:HD2	1.77	0.66
1:B:3937:TYR:HA	1:B:3940:LYS:HG2	1.76	0.66
1:D:1203:ASN:HB3	1:D:1211:LEU:HD21	1.77	0.66
1:C:299:LEU:HD23	1:C:378:LEU:HG	1.77	0.66
1:C:2519:LEU:HD13	1:C:2575:ARG:HG3	1.75	0.66
1:C:3780:LEU:HA	1:C:3783:ILE:HD12	1.77	0.66
1:A:183:SER:O	1:A:186:SER:OG	2.12	0.66
1:A:3670:GLU:OE1	1:A:3731:LYS:NZ	2.29	0.66
2:E:27:THR:OG1	2:E:40:ARG:NH1	2.29	0.66
1:D:2358:ILE:HG13	1:D:2359:ARG:HE	1.59	0.66
1:D:3235:SER:OG	1:D:3237:GLU:OE1	2.14	0.66
1:C:2470:ILE:HD12	1:C:2499:LYS:HE2	1.77	0.66
1:A:984:LEU:HB3	1:A:987:ARG:HH21	1.60	0.66
1:A:3522:LEU:CB	1:B:1220:GLN:OE1	2.43	0.66
1:A:3731:LYS:HA	1:A:3734:HIS:CE1	2.30	0.66
1:A:3921:ASP:HA	1:A:3924:LEU:HD12	1.76	0.66
2:H:55:VAL:HG11	2:H:59:TRP:HE3	1.60	0.66
1:D:1804:LEU:HB3	1:D:1853:ILE:HG21	1.75	0.66
1:D:2416:VAL:HG22	1:D:2491:SER:HB2	1.75	0.66
1:D:2694:GLU:HG2	1:D:2697:ARG:HE	1.60	0.66
1:C:3078:ARG:NH2	1:C:3151:GLN:O	2.29	0.66
1:A:818:ARG:HD2	1:A:1028:ASP:HA	1.76	0.66
1:A:891:TRP:HA	1:A:902:ARG:HE	1.60	0.66
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.78	0.66
1:B:2467:VAL:HG13	1:B:2524:VAL:HG21	1.77	0.66
1:D:3021:PRO:HD3	1:D:3030:HIS:CE1	2.30	0.66
1:D:4954:MET:HE1	1:D:4959:PHE:HB2	1.77	0.66
1:C:2000:SER:O	1:C:2005:GLN:NE2	2.29	0.66
1:C:2276:ALA:O	1:C:2279:SER:OG	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2441:HIS:HA	1:C:2444:GLN:HE21	1.59	0.66
1:C:3395:ARG:HA	1:C:3454:GLU:OE1	1.95	0.66
1:A:2467:VAL:HG13	1:A:2524:VAL:HG21	1.77	0.66
1:A:2495:VAL:HG23	1:A:2498:HIS:H	1.60	0.66
1:A:3937:TYR:HA	1:A:3940:LYS:HG2	1.76	0.66
1:B:899:ASP:O	1:B:902:ARG:NH1	2.28	0.66
1:B:3376:GLU:HA	1:B:3379:LEU:HD12	1.76	0.66
1:D:299:LEU:HD23	1:D:378:LEU:HG	1.77	0.66
1:D:1141:ARG:NH2	1:C:3478:MET:HE2	2.11	0.66
1:D:2369[B]:ARG:HB3	1:D:2373:GLY:HA2	1.76	0.66
1:D:3780:LEU:HA	1:D:3783:ILE:HD12	1.77	0.66
1:C:3367:LYS:HE2	1:C:3371:LYS:HZ1	1.61	0.66
1:C:4782:VAL:O	1:C:4785:THR:OG1	2.14	0.66
1:A:2694:GLU:HG2	1:A:2697:ARG:HE	1.60	0.66
1:A:3051:ARG:NH2	1:A:3102:ASP:OD2	2.29	0.66
1:B:1623:ARG:HE	1:B:1624:LEU:HD22	1.61	0.66
1:B:2694:GLU:HG2	1:B:2697:ARG:HE	1.60	0.66
1:B:3078:ARG:NH2	1:B:3151:GLN:O	2.29	0.66
1:D:296:ASP:OD2	1:D:297:GLN:NE2	2.28	0.66
1:D:2189:LYS:HZ3	1:D:2192:TYR:HB2	1.60	0.66
1:D:3264:THR:OG1	1:D:3265:GLU:OE2	2.13	0.66
1:D:3504:SER:H	1:D:3507:THR:HG1	1.44	0.66
1:C:891:TRP:HA	1:C:902:ARG:HE	1.60	0.66
1:C:2495:VAL:HG23	1:C:2498:HIS:H	1.60	0.66
1:C:3130:THR:O	1:C:3134:VAL:HG12	1.96	0.66
1:A:884:LEU:HD21	1:A:969:PRO:HG3	1.78	0.66
1:A:1290:ARG:O	1:A:1598:GLN:N	2.24	0.66
1:A:3130:THR:O	1:A:3134:VAL:HG12	1.96	0.66
1:A:3896:ASN:ND2	1:A:3899:PHE:HB2	2.11	0.66
1:A:4242:ILE:HA	1:A:4245:MET:HE2	1.77	0.66
2:H:88:PRO:CB	1:D:623:GLU:CD	2.68	0.66
1:B:1203:ASN:HB3	1:B:1211:LEU:HD21	1.77	0.66
1:B:1290:ARG:O	1:B:1598:GLN:N	2.24	0.66
1:B:1671:ARG:HH21	1:B:1675:ALA:HA	1.61	0.66
1:B:2163:ARG:HA	1:B:2166:LEU:HD12	1.77	0.66
1:B:3070:ILE:HG12	1:B:3073:ARG:HH21	1.59	0.66
1:D:2000:SER:O	1:D:2005:GLN:NE2	2.29	0.66
1:D:3937:TYR:HA	1:D:3940:LYS:HG2	1.76	0.66
1:C:504:ALA:O	1:C:508:GLY:N	2.27	0.66
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.78	0.66
1:A:899:ASP:O	1:A:902:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2110:TYR:O	1:A:2112:GLN:NE2	2.28	0.66
1:A:3395:ARG:HA	1:A:3454:GLU:OE1	1.95	0.66
2:E:54:GLU:OE1	2:E:54:GLU:N	2.27	0.66
1:B:842:PRO:O	1:B:1197:GLY:N	2.27	0.66
1:B:3264:THR:OG1	1:B:3265:GLU:OE2	2.13	0.66
1:B:4197:ILE:O	1:B:4202:ARG:NH2	2.29	0.66
1:B:4743:MET:HE3	1:B:4748:LEU:HD11	1.78	0.66
1:D:2495:VAL:HG23	1:D:2498:HIS:H	1.60	0.66
1:D:4197:ILE:O	1:D:4202:ARG:NH2	2.28	0.66
1:C:818:ARG:HD2	1:C:1028:ASP:HA	1.76	0.66
1:C:1623:ARG:HE	1:C:1624:LEU:HD22	1.61	0.66
1:A:1931:LEU:HD22	1:A:1935:VAL:HG11	1.78	0.66
1:A:2000:SER:O	1:A:2005:GLN:NE2	2.29	0.66
1:B:2000:SER:O	1:B:2005:GLN:NE2	2.29	0.66
1:D:842:PRO:O	1:D:1197:GLY:N	2.27	0.66
1:D:984:LEU:HB3	1:D:987:ARG:HH21	1.60	0.66
1:D:1623:ARG:HE	1:D:1624:LEU:HD22	1.61	0.66
1:D:1931:LEU:HD22	1:D:1935:VAL:HG11	1.78	0.66
1:D:3206:LEU:HB3	1:D:3246:LEU:HB3	1.77	0.66
1:C:828:GLU:OE2	1:C:831:ARG:NH1	2.29	0.66
1:C:1671:ARG:HH21	1:C:1675:ALA:HA	1.61	0.66
1:C:3206:LEU:HB3	1:C:3246:LEU:HB3	1.77	0.66
1:C:4197:ILE:O	1:C:4202:ARG:NH2	2.28	0.66
1:A:299:LEU:HD23	1:A:378:LEU:HG	1.76	0.65
1:A:4954:MET:HE1	1:A:4959:PHE:HB2	1.77	0.65
1:B:317:ARG:O	1:B:347:PHE:N	2.22	0.65
1:B:3130:THR:O	1:B:3134:VAL:HG12	1.96	0.65
1:D:891:TRP:HA	1:D:902:ARG:HE	1.60	0.65
1:D:3731:LYS:HA	1:D:3734:HIS:CE1	2.30	0.65
1:C:173:SER:O	1:C:177:GLU:N	2.29	0.65
1:C:1221:GLU:OE2	1:C:1221:GLU:N	2.27	0.65
1:A:4098:ASP:O	1:A:4101:LYS:NZ	2.23	0.65
1:B:445:LEU:O	1:B:449:ILE:HG12	1.97	0.65
1:B:2495:VAL:HG23	1:B:2498:HIS:H	1.60	0.65
1:B:4782:VAL:O	1:B:4785:THR:OG1	2.14	0.65
1:D:487:VAL:O	1:D:491:ILE:HG12	1.97	0.65
1:D:2620:GLN:HA	1:D:2623:LEU:HD12	1.78	0.65
1:D:4242:ILE:HA	1:D:4245:MET:HE2	1.77	0.65
1:C:899:ASP:O	1:C:902:ARG:NH1	2.28	0.65
1:C:984:LEU:HB3	1:C:987:ARG:HH21	1.60	0.65
1:C:1203:ASN:HB3	1:C:1211:LEU:HD21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3264:THR:OG1	1:C:3265:GLU:OE2	2.13	0.65
1:C:4743:MET:HE3	1:C:4748:LEU:HD11	1.78	0.65
1:A:317:ARG:O	1:A:347:PHE:N	2.22	0.65
1:B:2470:ILE:HD12	1:B:2499:LYS:HE2	1.77	0.65
1:D:884:LEU:HD21	1:D:969:PRO:HG3	1.78	0.65
1:D:3896:ASN:ND2	1:D:3899:PHE:HB2	2.11	0.65
1:D:4669:VAL:HA	1:D:4672:LYS:HE2	1.77	0.65
1:C:487:VAL:O	1:C:491:ILE:HG12	1.97	0.65
1:C:3284:TRP:HB3	1:C:3305:THR:HG21	1.79	0.65
1:C:3937:TYR:HA	1:C:3940:LYS:HG2	1.76	0.65
1:A:2276:ALA:O	1:A:2279:SER:OG	2.14	0.65
1:A:3021:PRO:HD3	1:A:3030:HIS:CE1	2.30	0.65
1:A:3281:LEU:HD22	1:A:3315:LEU:HD13	1.79	0.65
1:A:3336:LYS:HZ3	1:A:3403:ARG:HG3	1.61	0.65
1:A:3417:ASP:OD1	1:A:3420:ARG:NH2	2.30	0.65
1:B:173:SER:O	1:B:177:GLU:N	2.29	0.65
1:B:246:TYR:HB2	1:B:373:LYS:HB2	1.79	0.65
1:B:884:LEU:HD21	1:B:969:PRO:HG3	1.78	0.65
1:B:3157:ILE:HG23	1:B:3161:VAL:HB	1.79	0.65
1:B:3575:LEU:HD21	1:C:1208:VAL:HG11	1.78	0.65
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.78	0.65
1:D:13:PHE:HE1	1:D:164:ARG:HD2	1.62	0.65
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.27	0.65
1:D:3281:LEU:HD22	1:D:3315:LEU:HD13	1.79	0.65
1:D:3545:THR:HG23	1:D:3548:GLU:H	1.62	0.65
1:A:2620:GLN:HA	1:A:2623:LEU:HD12	1.78	0.65
1:D:603:LEU:HG	1:D:1669:LEU:HD11	1.78	0.65
1:D:1207:ASP:O	1:D:1210:SER:OG	2.15	0.65
1:D:3051:ARG:NH2	1:D:3102:ASP:OD2	2.29	0.65
1:D:3130:THR:O	1:D:3134:VAL:HG12	1.96	0.65
1:D:3284:TRP:HB3	1:D:3305:THR:HG21	1.79	0.65
1:D:3670:GLU:OE1	1:D:3731:LYS:NZ	2.29	0.65
1:C:445:LEU:O	1:C:449:ILE:HG12	1.97	0.65
1:C:884:LEU:HD21	1:C:969:PRO:HG3	1.78	0.65
1:C:3417:ASP:OD1	1:C:3420:ARG:NH2	2.30	0.65
1:A:504:ALA:O	1:A:508:GLY:N	2.27	0.65
1:A:1623:ARG:HE	1:A:1624:LEU:HD22	1.61	0.65
1:A:1671:ARG:HH21	1:A:1675:ALA:HA	1.61	0.65
1:B:828:GLU:OE2	1:B:831:ARG:NH1	2.29	0.65
1:B:3102:ASP:OD1	1:B:3105:LYS:NZ	2.30	0.65
1:B:3103:ILE:HA	1:B:3106:MET:HG2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3284:TRP:HB3	1:B:3305:THR:HG21	1.79	0.65
1:B:3670:GLU:OE1	1:B:3731:LYS:NZ	2.29	0.65
1:B:4772:ASP:O	1:B:4776:GLN:NE2	2.30	0.65
1:D:573:GLU:CD	1:D:573:GLU:H	2.05	0.65
1:D:4639:MET:N	1:D:4639:MET:SD	2.70	0.65
1:C:3157:ILE:HG23	1:C:3161:VAL:HB	1.78	0.65
1:A:246:TYR:HB2	1:A:373:LYS:HB2	1.79	0.65
1:A:308:HIS:NE2	1:A:310:LYS:HB3	2.12	0.65
1:A:2437:ALA:O	1:A:2508:ARG:NH2	2.30	0.65
1:A:3545:THR:HG23	1:A:3548:GLU:H	1.61	0.65
1:A:3875:MET:HB2	1:A:3953:LYS:HE2	1.78	0.65
1:A:4743:MET:HE3	1:A:4748:LEU:HD11	1.78	0.65
1:B:681:HIS:HE1	1:B:683:ARG:HB2	1.62	0.65
1:B:2746:ILE:HD12	1:B:2746:ILE:H	1.62	0.65
1:B:3896:ASN:ND2	1:B:3899:PHE:HB2	2.11	0.65
1:B:4583:SER:O	1:B:4629:TYR:N	2.30	0.65
1:D:445:LEU:O	1:D:449:ILE:HG12	1.97	0.65
1:D:828:GLU:OE2	1:D:831:ARG:NH1	2.29	0.65
1:D:3417:ASP:OD1	1:D:3420:ARG:NH2	2.30	0.65
1:D:4772:ASP:O	1:D:4776:GLN:NE2	2.30	0.65
1:C:3081:MET:HG2	1:C:3156:VAL:HA	1.79	0.65
1:C:3545:THR:HG23	1:C:3548:GLU:H	1.61	0.65
1:A:2639:MET:HA	1:A:2642:LYS:HD2	1.79	0.65
1:A:2746:ILE:H	1:A:2746:ILE:HD12	1.62	0.65
1:A:3206:LEU:HB3	1:A:3246:LEU:HB3	1.77	0.65
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.14	0.65
1:B:3450:ASN:O	1:B:3454:GLU:HG3	1.97	0.65
1:D:168:ASP:HB3	1:D:199:LEU:HD11	1.79	0.65
1:D:3648:ARG:O	1:D:3652:MET:HG2	1.97	0.65
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.78	0.65
1:C:308:HIS:NE2	1:C:310:LYS:HB3	2.12	0.65
1:C:3035:GLU:O	1:C:3039:ILE:HG13	1.97	0.65
1:C:3875:MET:HB2	1:C:3953:LYS:HE2	1.78	0.65
1:C:4669:VAL:HA	1:C:4672:LYS:HE2	1.78	0.65
1:A:828:GLU:OE2	1:A:831:ARG:NH1	2.29	0.65
1:A:3078:ARG:NH2	1:A:3151:GLN:O	2.29	0.65
1:A:4669:VAL:HA	1:A:4672:LYS:HE2	1.78	0.65
1:B:984:LEU:HB3	1:B:987:ARG:HH21	1.60	0.65
1:D:1671:ARG:HH21	1:D:1675:ALA:HA	1.61	0.65
1:C:573:GLU:H	1:C:573:GLU:CD	2.05	0.65
1:C:603:LEU:HG	1:C:1669:LEU:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3051:ARG:NH2	1:C:3102:ASP:OD2	2.29	0.65
1:C:3103:ILE:HA	1:C:3106:MET:HG2	1.79	0.65
1:C:4003:LEU:HD23	1:C:4009:GLN:HB3	1.78	0.65
1:C:4098:ASP:O	1:C:4101:LYS:NZ	2.23	0.65
1:A:513:GLU:OE2	1:A:513:GLU:N	2.30	0.65
1:A:590:LEU:HB3	1:A:631:LEU:HD21	1.79	0.65
1:A:3575:LEU:HD21	1:B:1208:VAL:HG11	1.77	0.65
1:A:3780:LEU:HA	1:A:3783:ILE:HD12	1.77	0.65
2:H:7:ILE:HG12	1:D:719:LEU:HD21	1.79	0.65
2:H:88:PRO:CB	1:D:623:GLU:OE2	2.43	0.65
1:B:504:ALA:O	1:B:508:GLY:N	2.27	0.65
1:B:3235:SER:OG	1:B:3237:GLU:OE1	2.14	0.65
1:B:3478:MET:HE2	1:C:1141:ARG:NH2	2.12	0.65
1:D:13:PHE:HB3	1:D:100:THR:HG21	1.79	0.65
1:C:1948:ASP:OD1	1:C:2126:ARG:NH2	2.30	0.65
1:C:2746:ILE:H	1:C:2746:ILE:HD12	1.62	0.65
1:C:3235:SER:OG	1:C:3237:GLU:OE1	2.14	0.65
1:A:13:PHE:HE1	1:A:164:ARG:HD2	1.62	0.64
1:A:1649:ASP:HB3	1:A:1652:GLU:HG3	1.79	0.64
2:F:78:PRO:HA	2:F:81:ALA:HB3	1.80	0.64
1:B:513:GLU:N	1:B:513:GLU:OE2	2.30	0.64
1:B:2437:ALA:O	1:B:2508:ARG:NH2	2.30	0.64
1:B:2974:ILE:HG21	1:B:3049:LEU:HG	1.79	0.64
1:B:3009:TYR:O	1:B:3013:HIS:ND1	2.30	0.64
1:B:3417:ASP:OD1	1:B:3420:ARG:NH2	2.30	0.64
1:B:3767:GLN:NE2	1:B:3806:ASN:O	2.29	0.64
1:D:140:ASP:OD1	1:D:141:ALA:N	2.31	0.64
1:D:1208:VAL:HG11	1:C:3575:LEU:HD21	1.79	0.64
1:D:2276:ALA:O	1:D:2279:SER:OG	2.14	0.64
1:D:4743:MET:HE3	1:D:4748:LEU:HD11	1.78	0.64
1:C:13:PHE:HB3	1:C:100:THR:HG21	1.79	0.64
1:C:1724:CYS:HA	1:C:1851:MET:HE1	1.79	0.64
1:A:140:ASP:OD1	1:A:141:ALA:N	2.31	0.64
1:A:681:HIS:HE1	1:A:683:ARG:HB2	1.62	0.64
1:A:2165:LEU:HD23	1:A:2178:MET:HG3	1.79	0.64
1:A:3081:MET:HG2	1:A:3156:VAL:HA	1.79	0.64
1:A:3264:THR:OG1	1:A:3265:GLU:OE2	2.13	0.64
1:D:2639:MET:HA	1:D:2642:LYS:HD2	1.79	0.64
1:D:3081:MET:HG2	1:D:3156:VAL:HA	1.79	0.64
1:D:4583:SER:O	1:D:4629:TYR:N	2.30	0.64
1:C:246:TYR:HB2	1:C:373:LYS:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2437:ALA:O	1:C:2508:ARG:NH2	2.30	0.64
1:C:2559:LEU:HD11	1:C:2603:ILE:HG12	1.79	0.64
1:C:3009:TYR:O	1:C:3013:HIS:ND1	2.30	0.64
1:C:3281:LEU:HD22	1:C:3315:LEU:HD13	1.79	0.64
1:A:13:PHE:HB3	1:A:100:THR:HG21	1.79	0.64
1:A:1207:ASP:O	1:A:1210:SER:OG	2.15	0.64
1:A:2974:ILE:HG21	1:A:3049:LEU:HG	1.79	0.64
1:A:3450:ASN:O	1:A:3454:GLU:HG3	1.97	0.64
2:H:26:TYR:N	2:H:39:SER:OG	2.28	0.64
1:B:487:VAL:O	1:B:491:ILE:HG12	1.97	0.64
1:B:603:LEU:HG	1:B:1669:LEU:HD11	1.78	0.64
1:B:765:GLN:OE1	1:B:765:GLN:N	2.30	0.64
1:B:1462:MET:HA	1:B:1462:MET:HE3	1.78	0.64
1:B:2306:GLY:HA2	1:B:2323:TRP:HB2	1.80	0.64
1:B:2584[A]:HIS:HD1	1:B:2625:ARG:HD3	1.63	0.64
1:B:3051:ARG:NH2	1:B:3102:ASP:OD2	2.29	0.64
1:B:3648:ARG:O	1:B:3652:MET:HG2	1.97	0.64
1:B:3842:LEU:HB2	1:B:3929:SER:HB2	1.79	0.64
1:B:4242:ILE:HA	1:B:4245:MET:HE2	1.77	0.64
1:B:4669:VAL:HA	1:B:4672:LYS:HE2	1.78	0.64
1:D:765:GLN:N	1:D:765:GLN:OE1	2.30	0.64
1:D:2974:ILE:HG21	1:D:3049:LEU:HG	1.79	0.64
1:D:3035:GLU:O	1:D:3039:ILE:HG13	1.97	0.64
1:D:3102:ASP:OD1	1:D:3105:LYS:NZ	2.30	0.64
1:D:4003:LEU:HD23	1:D:4009:GLN:HB3	1.79	0.64
1:D:4159:ARG:HA	1:D:4162:ASN:HD22	1.63	0.64
1:C:590:LEU:HB3	1:C:631:LEU:HD21	1.80	0.64
1:C:2974:ILE:HG21	1:C:3049:LEU:HG	1.79	0.64
1:C:3648:ARG:O	1:C:3652:MET:HG2	1.97	0.64
1:C:3896:ASN:ND2	1:C:3899:PHE:HB2	2.11	0.64
1:A:445:LEU:O	1:A:449:ILE:HG12	1.97	0.64
1:A:871:ARG:HA	1:A:874:LEU:HG	1.80	0.64
1:A:3284:TRP:HB3	1:A:3305:THR:HG21	1.79	0.64
1:A:3473:ASP:OD1	1:A:3477:LYS:NZ	2.31	0.64
1:A:3842:LEU:HB2	1:A:3929:SER:HB2	1.79	0.64
1:A:4639:MET:N	1:A:4639:MET:SD	2.70	0.64
1:B:1724:CYS:HA	1:B:1851:MET:HE1	1.79	0.64
1:B:4639:MET:N	1:B:4639:MET:SD	2.70	0.64
1:D:1463:ASN:O	1:D:1468:LYS:NZ	2.24	0.64
1:D:2559:LEU:HD11	1:D:2603:ILE:HG12	1.79	0.64
1:D:2746:ILE:H	1:D:2746:ILE:HD12	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2306:GLY:HA2	1:C:2323:TRP:HB2	1.80	0.64
1:C:3203:VAL:HG13	1:C:3211:ASN:HD22	1.62	0.64
1:C:4639:MET:SD	1:C:4639:MET:N	2.70	0.64
1:A:573:GLU:H	1:A:573:GLU:CD	2.05	0.64
1:A:628:GLY:O	2:E:34:LYS:NZ	2.30	0.64
1:A:790:ARG:NH1	1:A:1624:LEU:O	2.31	0.64
1:A:842:PRO:O	1:A:1197:GLY:N	2.27	0.64
1:A:2277:ALA:HB1	1:A:2337:PHE:HD2	1.63	0.64
1:A:2306:GLY:HA2	1:A:2323:TRP:HB2	1.80	0.64
1:B:13:PHE:HB3	1:B:100:THR:HG21	1.79	0.64
1:B:140:ASP:OD1	1:B:141:ALA:N	2.31	0.64
1:B:1931:LEU:HD22	1:B:1935:VAL:HG11	1.78	0.64
1:B:2553:TYR:HA	1:B:2556:LEU:HD12	1.80	0.64
1:B:3035:GLU:O	1:B:3039:ILE:HG13	1.97	0.64
1:D:308:HIS:NE2	1:D:310:LYS:HB3	2.12	0.64
1:D:1457:TYR:HB2	1:D:1491:ASN:HB2	1.80	0.64
1:D:1996:ARG:HA	1:D:1999:ARG:HB2	1.80	0.64
1:D:3450:ASN:O	1:D:3454:GLU:HG3	1.97	0.64
1:C:513:GLU:N	1:C:513:GLU:OE2	2.30	0.64
1:C:3227:ARG:HH21	1:C:3232:LEU:HD22	1.62	0.64
1:C:3450:ASN:O	1:C:3454:GLU:HG3	1.97	0.64
1:C:4583:SER:O	1:C:4629:TYR:N	2.30	0.64
1:A:487:VAL:O	1:A:491:ILE:HG12	1.97	0.64
1:A:2490:MET:N	1:A:2490:MET:SD	2.71	0.64
1:A:3035:GLU:O	1:A:3039:ILE:HG13	1.97	0.64
2:F:54:GLU:OE1	2:F:54:GLU:N	2.29	0.64
1:B:13:PHE:HE1	1:B:164:ARG:HD2	1.62	0.64
1:B:590:LEU:HB3	1:B:631:LEU:HD21	1.80	0.64
1:B:2559:LEU:HD11	1:B:2603:ILE:HG12	1.79	0.64
1:B:3545:THR:HG23	1:B:3548:GLU:H	1.61	0.64
1:D:513:GLU:N	1:D:513:GLU:OE2	2.30	0.64
1:D:3157:ILE:HG23	1:D:3161:VAL:HB	1.78	0.64
1:C:140:ASP:OD1	1:C:141:ALA:N	2.31	0.64
1:C:233:ILE:O	1:C:257:ARG:NH2	2.21	0.64
1:C:4242:ILE:HA	1:C:4245:MET:HE2	1.77	0.64
1:C:4772:ASP:O	1:C:4776:GLN:NE2	2.30	0.64
1:A:1220:GLN:OE1	1:D:3522:LEU:CB	2.45	0.64
1:A:1948:ASP:OD1	1:A:2126:ARG:NH2	2.30	0.64
1:A:2584[A]:HIS:HD1	1:A:2625:ARG:HD3	1.63	0.64
1:A:3504:SER:H	1:A:3507:THR:HG1	1.46	0.64
1:A:4583:SER:O	1:A:4629:TYR:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1527:MET:HG2	1:B:1540:PHE:HB2	1.80	0.64
1:D:173:SER:O	1:D:177:GLU:N	2.29	0.64
1:D:246:TYR:HB2	1:D:373:LYS:HB2	1.79	0.64
1:D:681:HIS:HE1	1:D:683:ARG:HB2	1.62	0.64
1:D:790:ARG:NH1	1:D:1624:LEU:O	2.31	0.64
1:D:871:ARG:HA	1:D:874:LEU:HG	1.79	0.64
1:D:1070:ASP:OD1	1:D:1241:SER:OG	2.16	0.64
1:D:2165:LEU:HD23	1:D:2178:MET:HG3	1.79	0.64
1:D:2437:ALA:O	1:D:2508:ARG:NH2	2.30	0.64
1:D:3203:VAL:HG13	1:D:3211:ASN:HD22	1.62	0.64
1:C:1457:TYR:HB2	1:C:1491:ASN:HB2	1.80	0.64
1:C:3005:LEU:HA	1:C:3008:GLN:HE21	1.63	0.64
1:A:603:LEU:HG	1:A:1669:LEU:HD11	1.78	0.64
1:A:2559:LEU:HD11	1:A:2603:ILE:HG12	1.79	0.64
1:A:4003:LEU:HD23	1:A:4009:GLN:HB3	1.79	0.64
1:A:4772:ASP:O	1:A:4776:GLN:NE2	2.30	0.64
1:B:573:GLU:CD	1:B:573:GLU:H	2.05	0.64
1:B:1649:ASP:HB3	1:B:1652:GLU:HG3	1.79	0.64
1:B:2515:GLN:OE1	1:B:2515:GLN:N	2.28	0.64
1:D:1948:ASP:OD1	1:D:2126:ARG:NH2	2.30	0.64
1:D:2306:GLY:HA2	1:D:2323:TRP:HB2	1.80	0.64
1:D:3078:ARG:NH2	1:D:3151:GLN:O	2.29	0.64
1:C:13:PHE:HE1	1:C:164:ARG:HD2	1.62	0.64
1:C:2592:GLY:O	1:C:2600:ARG:NH1	2.23	0.64
1:A:3235:SER:OG	1:A:3237:GLU:OE1	2.14	0.64
1:B:168:ASP:HB3	1:B:199:LEU:HD11	1.79	0.64
1:B:308:HIS:NE2	1:B:310:LYS:HB3	2.12	0.64
1:B:3005:LEU:HA	1:B:3008:GLN:HE21	1.63	0.64
1:B:3875:MET:HB2	1:B:3953:LYS:HE2	1.78	0.64
1:D:1462:MET:HA	1:D:1462:MET:HE3	1.78	0.64
1:D:1804:LEU:HD13	1:D:1853:ILE:HG13	1.80	0.64
1:D:3875:MET:HB2	1:D:3953:LYS:HE2	1.78	0.64
1:C:2490:MET:N	1:C:2490:MET:SD	2.71	0.64
1:C:2553:TYR:HA	1:C:2556:LEU:HD12	1.80	0.64
1:A:3227:ARG:HH21	1:A:3232:LEU:HD22	1.62	0.64
1:A:3648:ARG:O	1:A:3652:MET:HG2	1.97	0.64
2:G:7:ILE:HA	1:C:719:LEU:HD21	1.80	0.64
2:G:48:PHE:HZ	2:G:63:VAL:HG11	1.63	0.64
1:B:179:TYR:N	1:B:194:SER:O	2.31	0.64
1:B:2276:ALA:O	1:B:2279:SER:OG	2.14	0.64
1:B:3081:MET:HG2	1:B:3156:VAL:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2277:ALA:HB1	1:D:2337:PHE:HD2	1.63	0.64
1:D:2489:LYS:NZ	1:D:2491:SER:OG	2.22	0.64
1:D:3009:TYR:O	1:D:3013:HIS:ND1	2.30	0.64
1:D:3473:ASP:OD1	1:D:3477:LYS:NZ	2.31	0.64
1:C:1527:MET:HG2	1:C:1540:PHE:HB2	1.80	0.64
1:C:1804:LEU:HD13	1:C:1853:ILE:HG13	1.80	0.64
1:C:2420:HIS:HA	1:C:2423:MET:HE2	1.80	0.64
1:A:173:SER:O	1:A:177:GLU:N	2.29	0.63
1:A:179:TYR:N	1:A:194:SER:O	2.31	0.63
1:A:1141:ARG:NH2	1:D:3478:MET:HE2	2.11	0.63
1:A:1996:ARG:HA	1:A:1999:ARG:HB2	1.80	0.63
2:H:7:ILE:HG12	1:D:719:LEU:CD2	2.28	0.63
1:B:3281:LEU:HD22	1:B:3315:LEU:HD13	1.79	0.63
1:B:4003:LEU:HD23	1:B:4009:GLN:HB3	1.79	0.63
1:B:4159:ARG:HA	1:B:4162:ASN:HD22	1.63	0.63
1:D:590:LEU:HB3	1:D:631:LEU:HD21	1.80	0.63
1:D:1617:THR:HG22	1:D:1628:VAL:HG12	1.80	0.63
1:D:1640:HIS:HE1	1:D:1645:ASN:HA	1.64	0.63
1:D:2623:LEU:O	1:D:2627:VAL:HG23	1.99	0.63
1:D:3227:ARG:HH21	1:D:3232:LEU:HD22	1.62	0.63
1:C:1649:ASP:HB3	1:C:1652:GLU:HG3	1.79	0.63
1:C:1931:LEU:HD22	1:C:1935:VAL:HG11	1.78	0.63
1:C:2165:LEU:HD23	1:C:2178:MET:HG3	1.79	0.63
1:C:3714:SER:O	1:C:3787:LYS:NZ	2.31	0.63
1:A:1070:ASP:OD1	1:A:1241:SER:OG	2.16	0.63
1:A:1527:MET:HG2	1:A:1540:PHE:HB2	1.80	0.63
1:A:1804:LEU:HD13	1:A:1853:ILE:HG13	1.80	0.63
1:A:3103:ILE:HA	1:A:3106:MET:HG2	1.79	0.63
1:B:2110:TYR:O	1:B:2112:GLN:NE2	2.28	0.63
1:B:3714:SER:O	1:B:3787:LYS:NZ	2.31	0.63
1:B:3875:MET:HE2	1:B:3875:MET:N	2.13	0.63
1:B:4880:MET:N	1:B:4880:MET:HE2	2.13	0.63
1:D:183:SER:O	1:D:186:SER:OG	2.12	0.63
1:D:533:ASN:ND2	1:D:536:ASN:OD1	2.30	0.63
1:C:183:SER:O	1:C:186:SER:OG	2.12	0.63
1:C:1070:ASP:OD1	1:C:1241:SER:OG	2.16	0.63
1:C:1462:MET:HE3	1:C:1462:MET:HA	1.78	0.63
1:C:2584[A]:HIS:HD1	1:C:2625:ARG:HD3	1.63	0.63
1:C:4159:ARG:HA	1:C:4162:ASN:HD22	1.63	0.63
1:A:168:ASP:HB3	1:A:199:LEU:HD11	1.79	0.63
1:A:181:HIS:ND1	1:A:198:THR:OG1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1457:TYR:HB2	1:A:1491:ASN:HB2	1.80	0.63
1:A:1462:MET:HA	1:A:1462:MET:HE3	1.78	0.63
1:A:3009:TYR:O	1:A:3013:HIS:ND1	2.30	0.63
2:H:88:PRO:HA	1:D:623:GLU:OE1	1.98	0.63
1:B:1727:ARG:HE	1:B:1730:MET:HE3	1.63	0.63
1:B:2490:MET:SD	1:B:2490:MET:N	2.71	0.63
1:B:2639:MET:HA	1:B:2642:LYS:HD2	1.79	0.63
1:B:4844:LEU:HB2	1:B:4928:LEU:HD21	1.81	0.63
1:D:2453:ILE:HA	1:D:2456:ILE:HD12	1.81	0.63
1:C:168:ASP:HB3	1:C:199:LEU:HD11	1.79	0.63
1:C:790:ARG:NH1	1:C:1624:LEU:O	2.31	0.63
1:C:1207:ASP:O	1:C:1210:SER:OG	2.15	0.63
1:C:2453:ILE:HA	1:C:2456:ILE:HD12	1.81	0.63
1:C:3473:ASP:OD1	1:C:3477:LYS:NZ	2.31	0.63
1:C:3875:MET:HE2	1:C:3875:MET:N	2.14	0.63
1:A:2489:LYS:NZ	1:A:2491:SER:OG	2.22	0.63
1:A:2555:CYS:HB2	1:A:2599:GLN:HE21	1.63	0.63
1:A:3157:ILE:HG23	1:A:3161:VAL:HB	1.79	0.63
1:A:3523:ASN:N	1:B:1220:GLN:OE1	2.30	0.63
1:A:3767:GLN:NE2	1:A:3806:ASN:O	2.29	0.63
1:B:1207:ASP:O	1:B:1210:SER:OG	2.15	0.63
1:B:1948:ASP:OD1	1:B:2126:ARG:NH2	2.30	0.63
1:B:3203:VAL:HG13	1:B:3211:ASN:HD22	1.62	0.63
1:B:3473:ASP:OD1	1:B:3477:LYS:NZ	2.31	0.63
1:D:329:ARG:NH2	1:D:330:ASP:O	2.32	0.63
1:C:329:ARG:NH2	1:C:330:ASP:O	2.32	0.63
1:C:681:HIS:HE1	1:C:683:ARG:HB2	1.62	0.63
1:C:712:TYR:HA	1:C:1470:ARG:HH21	1.64	0.63
1:C:2515:GLN:OE1	1:C:2515:GLN:N	2.28	0.63
1:C:4844:LEU:HB2	1:C:4928:LEU:HD21	1.81	0.63
1:A:16:THR:HA	1:A:69:LEU:HD11	1.81	0.63
1:A:1640:HIS:HE1	1:A:1645:ASN:HA	1.64	0.63
1:A:1676:LEU:HD11	1:A:2168:VAL:HA	1.81	0.63
1:A:3203:VAL:HG13	1:A:3211:ASN:HD22	1.62	0.63
1:A:3714:SER:O	1:A:3787:LYS:NZ	2.31	0.63
1:A:3875:MET:HE2	1:A:3875:MET:N	2.13	0.63
1:A:4159:ARG:HA	1:A:4162:ASN:HD22	1.63	0.63
1:B:961:MET:HE2	1:B:966:LYS:CD	2.29	0.63
1:B:2883:HIS:HE1	1:B:2905:LEU:HD22	1.64	0.63
1:B:3336:LYS:HZ3	1:B:3403:ARG:HG3	1.63	0.63
1:B:4582:VAL:CG2	1:C:4877:ASP:HA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1131:ARG:HH11	1:D:1139:PHE:HB2	1.64	0.63
1:D:1676:LEU:HD11	1:D:2168:VAL:HA	1.81	0.63
1:D:1727:ARG:HE	1:D:1730:MET:HE3	1.63	0.63
1:D:2490:MET:N	1:D:2490:MET:SD	2.71	0.63
1:D:3103:ILE:HA	1:D:3106:MET:HG2	1.79	0.63
1:D:3714:SER:O	1:D:3787:LYS:NZ	2.31	0.63
1:D:4880:MET:N	1:D:4880:MET:HE2	2.13	0.63
1:A:2203:MET:N	1:A:2203:MET:SD	2.72	0.63
1:A:2883:HIS:HE1	1:A:2905:LEU:HD22	1.64	0.63
1:A:3005:LEU:HA	1:A:3008:GLN:HE21	1.63	0.63
1:A:3102:ASP:OD1	1:A:3105:LYS:NZ	2.30	0.63
1:A:4880:MET:HE2	1:A:4880:MET:N	2.13	0.63
1:B:476:SER:O	1:B:480:GLU:HG2	1.99	0.63
1:B:2620:GLN:HA	1:B:2623:LEU:HD12	1.78	0.63
1:B:4053:SER:O	1:B:4056:GLU:HG2	1.99	0.63
1:D:16:THR:HA	1:D:69:LEU:HD11	1.81	0.63
1:D:1733:GLU:OE2	1:D:2163:ARG:NH1	2.32	0.63
1:D:2553:TYR:HA	1:D:2556:LEU:HD12	1.80	0.63
1:D:2555:CYS:HB2	1:D:2599:GLN:HE21	1.63	0.63
1:C:1996:ARG:HA	1:C:1999:ARG:HB2	1.80	0.63
1:C:4053:SER:O	1:C:4056:GLU:HG2	1.99	0.63
1:C:4880:MET:HE2	1:C:4880:MET:N	2.13	0.63
1:A:476:SER:O	1:A:480:GLU:HG2	1.99	0.63
1:A:1727:ARG:HE	1:A:1730:MET:HE3	1.63	0.63
1:A:1733:GLU:OE2	1:A:2163:ARG:NH1	2.32	0.63
1:B:1995:THR:O	1:B:1999:ARG:N	2.31	0.63
1:B:2165:LEU:HD23	1:B:2178:MET:HG3	1.79	0.63
1:D:712:TYR:HA	1:D:1470:ARG:HH21	1.64	0.63
1:D:1649:ASP:HB3	1:D:1652:GLU:HG3	1.79	0.63
1:D:1724:CYS:HA	1:D:1851:MET:HE1	1.79	0.63
1:D:3842:LEU:HB2	1:D:3929:SER:HB2	1.79	0.63
1:D:4248:ALA:HA	1:D:4251:ILE:HG12	1.81	0.63
1:C:179:TYR:N	1:C:194:SER:O	2.32	0.63
1:C:2110:TYR:O	1:C:2112:GLN:NE2	2.28	0.63
1:C:2620:GLN:HA	1:C:2623:LEU:HD12	1.78	0.63
1:C:2623:LEU:O	1:C:2627:VAL:HG23	1.99	0.63
1:C:4248:ALA:HA	1:C:4251:ILE:HG12	1.81	0.63
1:A:961:MET:HE2	1:A:966:LYS:CD	2.29	0.63
1:A:2623:LEU:O	1:A:2627:VAL:HG23	1.99	0.63
1:B:273:HIS:ND1	1:B:335:GLY:O	2.32	0.63
1:B:1221:GLU:OE2	1:B:1221:GLU:N	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3522:LEU:CB	1:C:1220:GLN:OE1	2.47	0.63
1:B:4732:PHE:O	1:B:4736:ARG:NE	2.32	0.63
1:D:1527:MET:HG2	1:D:1540:PHE:HB2	1.80	0.63
1:C:871:ARG:HA	1:C:874:LEU:HG	1.80	0.63
1:C:961:MET:HE2	1:C:966:LYS:CD	2.29	0.63
1:C:2639:MET:HA	1:C:2642:LYS:HD2	1.79	0.63
1:C:3428:ASN:ND2	1:C:3430:ASN:OD1	2.29	0.63
1:A:273:HIS:ND1	1:A:335:GLY:O	2.32	0.63
1:A:1724:CYS:HA	1:A:1851:MET:HE1	1.79	0.63
1:B:329:ARG:NH2	1:B:330:ASP:O	2.32	0.63
1:B:871:ARG:HA	1:B:874:LEU:HG	1.79	0.63
1:B:1125:ASN:HD22	1:B:1128:ARG:HD2	1.64	0.63
1:B:1640:HIS:HE1	1:B:1645:ASN:HA	1.64	0.63
1:B:1733:GLU:OE2	1:B:2163:ARG:NH1	2.32	0.63
1:B:2203:MET:N	1:B:2203:MET:SD	2.72	0.63
1:B:3227:ARG:HH21	1:B:3232:LEU:HD22	1.62	0.63
1:D:961:MET:HE2	1:D:966:LYS:CD	2.28	0.63
1:D:2420:HIS:HA	1:D:2423:MET:HE2	1.79	0.63
1:D:2584[A]:HIS:HD1	1:D:2625:ARG:HD3	1.63	0.63
1:D:3428:ASN:ND2	1:D:3430:ASN:OD1	2.29	0.63
1:D:3996:PHE:O	1:D:4000:MET:HG3	1.99	0.63
1:C:1733:GLU:OE2	1:C:2163:ARG:NH1	2.32	0.63
1:A:2553:TYR:HA	1:A:2556:LEU:HD12	1.80	0.62
1:A:4580:TYR:CD2	1:A:4632:LEU:HB2	2.33	0.62
2:E:105:LYS:NZ	2:E:107:GLU:HG3	2.13	0.62
1:B:1070:ASP:OD1	1:B:1241:SER:OG	2.16	0.62
1:B:1617:THR:HG22	1:B:1628:VAL:HG12	1.80	0.62
1:B:1804:LEU:HD13	1:B:1853:ILE:HG13	1.80	0.62
1:B:2420:HIS:HA	1:B:2423:MET:HE2	1.79	0.62
1:B:2697:ARG:HA	1:B:2700:MET:SD	2.39	0.62
1:D:179:TYR:N	1:D:194:SER:O	2.32	0.62
1:D:206:CYS:HB2	1:D:271:GLY:HA3	1.81	0.62
1:D:3005:LEU:HA	1:D:3008:GLN:HE21	1.63	0.62
1:D:3875:MET:HE2	1:D:3875:MET:N	2.14	0.62
1:C:296:ASP:OD2	1:C:297:GLN:NE2	2.28	0.62
1:C:3842:LEU:HB2	1:C:3929:SER:HB2	1.79	0.62
1:C:4732:PHE:O	1:C:4736:ARG:NE	2.32	0.62
1:A:329:ARG:NH2	1:A:330:ASP:O	2.32	0.62
1:B:973:SER:O	1:B:976:ARG:NH2	2.33	0.62
1:B:1254:HIS:HA	1:B:1276:THR:HG23	1.82	0.62
1:D:476:SER:O	1:D:480:GLU:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3092:LEU:HG	1:D:3096:PHE:CZ	2.34	0.62
1:C:476:SER:O	1:C:480:GLU:HG2	1.99	0.62
1:C:1676:LEU:HD11	1:C:2168:VAL:HA	1.81	0.62
1:C:2277:ALA:HB1	1:C:2337:PHE:HD2	1.63	0.62
1:C:2555:CYS:HB2	1:C:2599:GLN:HE21	1.63	0.62
1:A:4844:LEU:HB2	1:A:4928:LEU:HD21	1.81	0.62
1:B:790:ARG:NH1	1:B:1624:LEU:O	2.31	0.62
1:B:1457:TYR:HB2	1:B:1491:ASN:HB2	1.80	0.62
1:B:1676:LEU:HD11	1:B:2168:VAL:HA	1.81	0.62
1:B:1982:ARG:O	1:B:1982:ARG:NE	2.32	0.62
1:B:2623:LEU:O	1:B:2627:VAL:HG23	1.99	0.62
1:B:3366:ARG:HA	1:B:3441:ILE:HD11	1.82	0.62
1:D:273:HIS:ND1	1:D:335:GLY:O	2.32	0.62
1:D:1254:HIS:HA	1:D:1276:THR:HG23	1.82	0.62
1:D:2514:ASN:HB2	1:D:2517:PHE:HB3	1.81	0.62
1:D:3367:LYS:HE2	1:D:3371:LYS:HZ1	1.65	0.62
1:C:3996:PHE:O	1:C:4000:MET:HG3	1.99	0.62
1:A:712:TYR:HA	1:A:1470:ARG:HH21	1.64	0.62
1:A:1254:HIS:HA	1:A:1276:THR:HG23	1.82	0.62
1:A:2514:ASN:HB2	1:A:2517:PHE:HB3	1.81	0.62
1:B:598:LYS:O	1:B:602:VAL:HG23	2.00	0.62
1:B:1996:ARG:HA	1:B:1999:ARG:HB2	1.80	0.62
1:B:2318:TYR:OH	1:B:2416:VAL:O	2.16	0.62
1:B:2782:ASP:HB2	1:B:2785:LEU:HB2	1.81	0.62
1:D:598:LYS:O	1:D:602:VAL:HG23	2.00	0.62
1:D:2203:MET:N	1:D:2203:MET:SD	2.72	0.62
1:D:4732:PHE:O	1:D:4736:ARG:NE	2.32	0.62
1:D:4844:LEU:HB2	1:D:4928:LEU:HD21	1.81	0.62
1:C:973:SER:O	1:C:976:ARG:NH2	2.33	0.62
1:C:2201:LEU:HB2	1:C:2203:MET:HE1	1.81	0.62
1:C:2514:ASN:HB2	1:C:2517:PHE:HB3	1.81	0.62
1:A:850:ASP:OD1	1:A:850:ASP:N	2.33	0.62
1:A:1982:ARG:NE	1:A:1982:ARG:O	2.32	0.62
1:A:2318:TYR:OH	1:A:2416:VAL:O	2.16	0.62
1:A:2321:ILE:HD12	1:A:2418:LEU:HD21	1.82	0.62
1:A:2599:GLN:O	1:A:2603:ILE:HG13	2.00	0.62
1:A:3366:ARG:HA	1:A:3441:ILE:HD11	1.82	0.62
1:A:3367:LYS:HE2	1:A:3371:LYS:HZ1	1.64	0.62
2:E:78:PRO:HA	2:E:81:ALA:HB3	1.81	0.62
1:B:16:THR:HA	1:B:69:LEU:HD11	1.81	0.62
1:B:1451:GLY:HA3	1:B:1494:MET:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2321:ILE:HD12	1:B:2418:LEU:HD21	1.81	0.62
1:B:2514:ASN:HB2	1:B:2517:PHE:HB3	1.81	0.62
1:B:2555:CYS:HB2	1:B:2599:GLN:HE21	1.63	0.62
1:D:1125:ASN:HD22	1:D:1128:ARG:HD2	1.64	0.62
1:D:1162:PHE:HB3	1:D:1169:LEU:HD12	1.82	0.62
1:D:2321:ILE:HD12	1:D:2418:LEU:HD21	1.82	0.62
1:D:2599:GLN:O	1:D:2603:ILE:HG13	2.00	0.62
1:D:4782:VAL:O	1:D:4785:THR:OG1	2.14	0.62
1:C:1131:ARG:HH11	1:C:1139:PHE:HB2	1.64	0.62
1:C:1617:THR:HG22	1:C:1628:VAL:HG12	1.80	0.62
1:C:2599:GLN:O	1:C:2603:ILE:HG13	2.00	0.62
1:A:1131:ARG:HH11	1:A:1139:PHE:HB2	1.64	0.62
1:A:1162:PHE:HB3	1:A:1169:LEU:HD12	1.82	0.62
1:A:2420:HIS:HA	1:A:2423:MET:HE2	1.79	0.62
1:A:2452:ARG:NH1	1:B:174:VAL:O	2.32	0.62
1:A:2697:ARG:HA	1:A:2700:MET:SD	2.39	0.62
1:B:3359:ILE:HG12	1:B:3434:LEU:HD21	1.81	0.62
1:B:3575:LEU:HD21	1:C:1208:VAL:CG2	2.26	0.62
1:D:127:MET:SD	1:D:127:MET:N	2.64	0.62
1:D:239:ASP:OD2	1:D:239:ASP:N	2.32	0.62
1:D:4921:PHE:HA	1:D:4925:ILE:HD12	1.82	0.62
1:C:3092:LEU:HG	1:C:3096:PHE:CZ	2.34	0.62
1:C:3336:LYS:HZ3	1:C:3403:ARG:HG3	1.64	0.62
1:A:2453:ILE:HA	1:A:2456:ILE:HD12	1.81	0.62
1:A:2548:LEU:O	1:A:2552:ARG:HG2	2.00	0.62
1:A:3092:LEU:HG	1:A:3096:PHE:CZ	2.34	0.62
2:F:78:PRO:HD3	2:F:96:THR:HG22	1.80	0.62
1:B:2201:LEU:HB2	1:B:2203:MET:HE1	1.81	0.62
1:B:2277:ALA:HB1	1:B:2337:PHE:HD2	1.63	0.62
1:B:2576:ALA:HB2	1:B:2618:MET:HE2	1.82	0.62
1:D:2548:LEU:O	1:D:2552:ARG:HG2	2.00	0.62
1:D:4580:TYR:CD2	1:D:4632:LEU:HB2	2.33	0.62
1:C:273:HIS:ND1	1:C:335:GLY:O	2.32	0.62
1:C:1452:TRP:CD1	1:C:1452:TRP:H	2.18	0.62
1:C:2321:ILE:HD12	1:C:2418:LEU:HD21	1.81	0.62
1:C:2697:ARG:HA	1:C:2700:MET:SD	2.39	0.62
1:C:2883:HIS:HE1	1:C:2905:LEU:HD22	1.64	0.62
1:C:3322:ILE:HG13	1:C:3326:ASN:HD21	1.64	0.62
1:A:973:SER:O	1:A:976:ARG:NH2	2.33	0.62
1:A:2480:GLY:O	1:A:2484:ALA:N	2.33	0.62
1:A:3204:ALA:O	1:A:3211:ASN:ND2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4053:SER:O	1:A:4056:GLU:HG2	1.99	0.62
1:A:4248:ALA:HA	1:A:4251:ILE:HG12	1.81	0.62
1:A:4732:PHE:O	1:A:4736:ARG:NE	2.32	0.62
2:G:6:THR:HB	2:G:70:GLN:HE21	1.65	0.62
1:B:1162:PHE:HB3	1:B:1169:LEU:HD12	1.82	0.62
1:B:1452:TRP:CD1	1:B:1452:TRP:H	2.18	0.62
1:D:850:ASP:OD1	1:D:850:ASP:N	2.33	0.62
1:D:898:ASP:HB3	1:D:901:LYS:HD3	1.82	0.62
1:D:1290:ARG:O	1:D:1598:GLN:N	2.24	0.62
1:D:2782:ASP:HB2	1:D:2785:LEU:HB2	1.81	0.62
1:D:4711:PHE:HB3	1:D:4712:PRO:CD	2.30	0.62
1:C:1162:PHE:HB3	1:C:1169:LEU:HD12	1.82	0.62
1:C:2576:ALA:HB2	1:C:2618:MET:HE2	1.82	0.62
1:C:3242:ASP:N	1:C:3242:ASP:OD1	2.33	0.62
1:A:176:SER:HB2	1:A:178:ARG:HD2	1.81	0.62
1:A:598:LYS:O	1:A:602:VAL:HG23	2.00	0.62
1:A:4866:SER:N	1:A:4873:ASP:OD2	2.33	0.62
2:E:27:THR:HG23	2:E:38:SER:HB2	1.80	0.62
1:B:206:CYS:HB2	1:B:271:GLY:HA3	1.81	0.62
1:B:533:ASN:ND2	1:B:536:ASN:OD1	2.31	0.62
1:D:647:ASN:ND2	1:D:820:ARG:O	2.33	0.62
1:D:973:SER:O	1:D:976:ARG:NH2	2.33	0.62
1:D:3449:HIS:O	1:D:3453:ARG:HG3	2.00	0.62
1:C:1254:HIS:HA	1:C:1276:THR:HG23	1.82	0.62
1:C:2712:PRO:HB3	1:C:2956:ALA:HB2	1.82	0.62
1:C:3172:ILE:HD13	1:C:3194:LEU:HD22	1.82	0.62
1:A:647:ASN:ND2	1:A:820:ARG:O	2.33	0.62
1:A:894:GLY:HA3	1:A:903:LEU:HB3	1.82	0.62
1:A:1438:ARG:NH1	1:A:1513:ASP:OD1	2.33	0.62
1:A:1451:GLY:HA3	1:A:1494:MET:HA	1.81	0.62
1:A:4664:LEU:HB3	1:A:4665:LYS:HZ2	1.65	0.62
1:A:4711:PHE:HB3	1:A:4712:PRO:CD	2.30	0.62
2:E:26:TYR:N	2:E:39:SER:OG	2.29	0.62
1:B:1438:ARG:NH1	1:B:1513:ASP:OD1	2.33	0.62
1:B:3204:ALA:O	1:B:3211:ASN:ND2	2.33	0.62
1:B:3322:ILE:O	1:B:3326:ASN:ND2	2.33	0.62
1:D:2293:GLN:OE1	1:D:2293:GLN:N	2.24	0.62
1:D:2697:ARG:HA	1:D:2700:MET:SD	2.39	0.62
1:D:3359:ILE:HG12	1:D:3434:LEU:HD21	1.81	0.62
1:C:1451:GLY:HA3	1:C:1494:MET:HA	1.81	0.62
2:F:7:ILE:HB	2:F:71:ARG:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:349:GLN:OE1	1:B:350:HIS:N	2.33	0.61
1:B:2453:ILE:HA	1:B:2456:ILE:HD12	1.81	0.61
1:B:2599:GLN:O	1:B:2603:ILE:HG13	2.00	0.61
1:B:3449:HIS:O	1:B:3453:ARG:HG3	2.00	0.61
1:B:3996:PHE:O	1:B:4000:MET:HG3	1.99	0.61
1:D:894:GLY:HA3	1:D:903:LEU:HB3	1.82	0.61
1:D:1204:LEU:HB3	1:D:1226:PHE:HB3	1.82	0.61
1:D:2201:LEU:HB2	1:D:2203:MET:HE1	1.81	0.61
1:D:2712:PRO:HB3	1:D:2956:ALA:HB2	1.82	0.61
1:D:3767:GLN:NE2	1:D:3806:ASN:O	2.29	0.61
1:C:16:THR:HA	1:C:69:LEU:HD11	1.81	0.61
1:C:1125:ASN:HD22	1:C:1128:ARG:HD2	1.64	0.61
1:C:1727:ARG:HE	1:C:1730:MET:HE3	1.63	0.61
1:C:2517:PHE:O	1:C:2520:HIS:ND1	2.33	0.61
1:C:2644:LEU:O	1:C:2647:HIS:ND1	2.33	0.61
1:C:2798:SER:OG	1:C:2801:ASP:OD2	2.18	0.61
1:C:3069:HIS:HA	1:C:3142:THR:HG21	1.82	0.61
1:C:3158:LEU:O	1:C:3162:GLN:NE2	2.34	0.61
1:A:2576:ALA:HB2	1:A:2618:MET:HE2	1.82	0.61
1:A:4176:PRO:O	1:A:4202:ARG:NH1	2.33	0.61
1:B:898:ASP:HB3	1:B:901:LYS:HD3	1.82	0.61
1:B:2548:LEU:O	1:B:2552:ARG:HG2	2.00	0.61
1:B:3069:HIS:HA	1:B:3142:THR:HG21	1.82	0.61
1:B:4176:PRO:O	1:B:4202:ARG:NH1	2.33	0.61
1:B:4248:ALA:HA	1:B:4251:ILE:HG12	1.81	0.61
1:B:4866:SER:N	1:B:4873:ASP:OD2	2.33	0.61
1:D:3336:LYS:HZ3	1:D:3403:ARG:HG3	1.65	0.61
1:C:206:CYS:HB2	1:C:271:GLY:HA3	1.81	0.61
1:C:898:ASP:HB3	1:C:901:LYS:HD3	1.82	0.61
1:C:1640:HIS:HE1	1:C:1645:ASN:HA	1.64	0.61
1:C:2283:ASN:HD22	1:C:2286:LEU:HG	1.65	0.61
1:C:3204:ALA:O	1:C:3211:ASN:ND2	2.33	0.61
1:A:898:ASP:HB3	1:A:901:LYS:HD3	1.82	0.61
1:A:2782:ASP:HB2	1:A:2785:LEU:HB2	1.81	0.61
1:A:3069:HIS:HA	1:A:3142:THR:HG21	1.82	0.61
1:A:3172:ILE:HD13	1:A:3194:LEU:HD22	1.82	0.61
1:A:3359:ILE:HG12	1:A:3434:LEU:HD21	1.81	0.61
1:A:4582:VAL:CG2	1:B:4877:ASP:HA	2.30	0.61
2:G:40:ARG:CZ	1:C:674:PHE:CE2	2.83	0.61
1:B:712:TYR:HA	1:B:1470:ARG:HH21	1.64	0.61
1:D:283:ARG:HH12	1:D:285:VAL:HA	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3069:HIS:HA	1:D:3142:THR:HG21	1.82	0.61
1:D:3204:ALA:O	1:D:3211:ASN:ND2	2.33	0.61
1:D:4053:SER:O	1:D:4056:GLU:HG2	1.99	0.61
1:C:1263:THR:OG1	1:C:1265:ASP:OD2	2.18	0.61
1:C:2782:ASP:HB2	1:C:2785:LEU:HB2	1.81	0.61
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.36	0.61
1:A:3449:HIS:O	1:A:3453:ARG:HG3	2.00	0.61
2:H:13:ARG:HG3	2:H:14:THR:HG23	1.83	0.61
2:G:54:GLU:O	1:C:1785:ALA:N	2.32	0.61
1:B:2712:PRO:HB3	1:B:2956:ALA:HB2	1.82	0.61
1:B:2999:ALA:HA	1:B:3003:LEU:HD12	1.82	0.61
1:B:3092:LEU:HG	1:B:3096:PHE:CZ	2.34	0.61
1:B:3322:ILE:HG13	1:B:3326:ASN:HD21	1.64	0.61
1:B:3367:LYS:HE2	1:B:3371:LYS:HZ1	1.64	0.61
1:D:472:ARG:NH1	1:D:472:ARG:HA	2.16	0.61
1:D:3322:ILE:HG13	1:D:3326:ASN:HD21	1.64	0.61
1:C:850:ASP:N	1:C:850:ASP:OD1	2.33	0.61
1:C:2480:GLY:O	1:C:2484:ALA:N	2.33	0.61
1:C:3102:ASP:OD1	1:C:3105:LYS:NZ	2.30	0.61
1:A:1541:GLN:NE2	1:A:1542:VAL:O	2.34	0.61
1:A:3996:PHE:O	1:A:4000:MET:HG3	1.99	0.61
2:G:7:ILE:HG13	1:C:719:LEU:CD2	2.29	0.61
1:B:2644:LEU:O	1:B:2647:HIS:ND1	2.33	0.61
1:B:3539:ARG:HG3	1:B:3549:VAL:HG22	1.82	0.61
1:D:2480:GLY:O	1:D:2484:ALA:N	2.33	0.61
1:D:2566:ALA:HA	1:D:2569:PHE:HB2	1.82	0.61
1:D:2576:ALA:HB2	1:D:2618:MET:HE2	1.82	0.61
1:D:3322:ILE:O	1:D:3326:ASN:ND2	2.33	0.61
1:D:3324:VAL:O	1:D:3364:ARG:NH2	2.33	0.61
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.36	0.61
1:C:408:ALA:HB2	1:C:483:MET:HE1	1.83	0.61
1:C:765:GLN:OE1	1:C:765:GLN:N	2.30	0.61
1:C:1204:LEU:HB3	1:C:1226:PHE:HB3	1.82	0.61
1:C:1733:GLU:OE1	1:C:1733:GLU:N	2.27	0.61
1:C:1995:THR:O	1:C:1999:ARG:N	2.31	0.61
1:C:3136:LEU:O	1:C:3140:LEU:HG	2.01	0.61
1:C:3324:VAL:O	1:C:3364:ARG:NH2	2.33	0.61
1:C:3359:ILE:HG12	1:C:3434:LEU:HD21	1.81	0.61
1:A:1617:THR:HG22	1:A:1628:VAL:HG12	1.81	0.61
1:A:2515:GLN:OE1	1:A:2515:GLN:N	2.28	0.61
2:E:10:GLY:HA3	2:E:70:GLN:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:408:ALA:HB2	1:D:483:MET:HE1	1.83	0.61
1:D:2883:HIS:HE1	1:D:2905:LEU:HD22	1.64	0.61
1:D:4866:SER:N	1:D:4873:ASP:OD2	2.33	0.61
1:C:1438:ARG:NH1	1:C:1513:ASP:OD1	2.33	0.61
1:A:206:CYS:HB2	1:A:271:GLY:HA3	1.81	0.61
1:A:239:ASP:OD2	1:A:239:ASP:N	2.32	0.61
1:A:1125:ASN:HD22	1:A:1128:ARG:HD2	1.64	0.61
1:A:1296:GLN:NE2	1:A:1545:ASN:OD1	2.34	0.61
1:A:2724:GLU:HA	1:A:2738:ARG:HH22	1.65	0.61
2:F:7:ILE:CG2	1:B:737:LEU:HB2	2.31	0.61
1:B:1291:LEU:HD12	1:B:1550:PRO:HB2	1.83	0.61
1:B:2151:ASP:OD1	1:B:2188:ASN:ND2	2.34	0.61
1:B:2480:GLY:O	1:B:2484:ALA:N	2.33	0.61
1:B:4921:PHE:HA	1:B:4925:ILE:HD12	1.82	0.61
1:D:622:THR:HG23	1:D:626:LEU:HD12	1.83	0.61
1:D:4176:PRO:O	1:D:4202:ARG:NH1	2.33	0.61
1:C:472:ARG:NH1	1:C:472:ARG:HA	2.16	0.61
1:C:1160:ILE:O	1:C:1177:THR:OG1	2.18	0.61
1:C:2999:ALA:HA	1:C:3003:LEU:HD12	1.82	0.61
1:C:3449:HIS:O	1:C:3453:ARG:HG3	2.00	0.61
1:C:4866:SER:N	1:C:4873:ASP:OD2	2.33	0.61
1:A:533:ASN:ND2	1:A:536:ASN:OD1	2.31	0.61
1:A:2201:LEU:HB2	1:A:2203:MET:HE1	1.81	0.61
1:A:2566:ALA:HA	1:A:2569:PHE:HB2	1.82	0.61
1:A:3158:LEU:O	1:A:3162:GLN:NE2	2.33	0.61
1:A:3322:ILE:HG13	1:A:3326:ASN:HD21	1.64	0.61
1:A:3324:VAL:O	1:A:3364:ARG:NH2	2.33	0.61
1:A:3478:MET:HE2	1:B:1141:ARG:NH2	2.12	0.61
1:B:1653:LEU:HD21	1:B:1660:GLN:HA	1.82	0.61
1:B:4879:MET:HE2	1:B:4879:MET:HA	1.83	0.61
1:D:176:SER:HB2	1:D:178:ARG:HD2	1.81	0.61
1:D:218:HIS:N	1:D:261:ARG:HH22	1.98	0.61
1:D:1541:GLN:NE2	1:D:1542:VAL:O	2.34	0.61
1:D:2283:ASN:HD22	1:D:2286:LEU:HG	1.65	0.61
1:D:3836:MET:SD	1:D:3837:GLN:NE2	2.74	0.61
1:C:218:HIS:N	1:C:261:ARG:HH22	1.98	0.61
1:C:497:TYR:O	1:C:553:ARG:NH2	2.33	0.61
1:C:533:ASN:ND2	1:C:536:ASN:OD1	2.31	0.61
1:C:1291:LEU:HD12	1:C:1550:PRO:HB2	1.83	0.61
1:C:1296:GLN:NE2	1:C:1545:ASN:OD1	2.34	0.61
1:C:4921:PHE:HA	1:C:4925:ILE:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:HIS:N	1:A:261:ARG:HH22	1.98	0.61
1:A:1291:LEU:HD12	1:A:1550:PRO:HB2	1.83	0.61
2:E:15:PHE:H	2:E:17:LYS:NZ	1.99	0.61
1:B:1131:ARG:HH11	1:B:1139:PHE:HB2	1.64	0.61
1:B:1204:LEU:HB3	1:B:1226:PHE:HB3	1.82	0.61
1:B:3158:LEU:O	1:B:3162:GLN:NE2	2.33	0.61
1:B:3711:THR:O	1:B:3713:LYS:NZ	2.34	0.61
1:D:1653:LEU:HD21	1:D:1660:GLN:HA	1.82	0.61
1:C:154:SER:OG	1:C:155:LYS:N	2.34	0.61
1:C:598:LYS:O	1:C:602:VAL:HG23	2.00	0.61
1:C:1982:ARG:NE	1:C:1982:ARG:O	2.32	0.61
1:C:2724:GLU:HA	1:C:2738:ARG:HH22	1.65	0.61
1:C:4144:ALA:O	1:C:4148:THR:HG23	2.01	0.61
1:C:4711:PHE:HB3	1:C:4712:PRO:CD	2.30	0.61
1:A:622:THR:HG23	1:A:626:LEU:HD12	1.83	0.61
1:A:1204:LEU:HB3	1:A:1226:PHE:HB3	1.82	0.61
1:A:1653:LEU:HD21	1:A:1660:GLN:HA	1.82	0.61
1:A:1783:VAL:HG12	2:E:55:VAL:HG13	1.82	0.61
1:A:2679:PHE:HE2	1:A:2707:ALA:HB2	1.66	0.61
1:A:2712:PRO:HB3	1:A:2956:ALA:HB2	1.82	0.61
2:G:26:TYR:N	2:G:39:SER:OG	2.25	0.61
2:G:49:MET:HE3	2:G:52:LYS:HB2	1.82	0.61
1:B:239:ASP:OD2	1:B:239:ASP:N	2.32	0.61
1:B:296:ASP:OD2	1:B:297:GLN:NE2	2.28	0.61
1:B:904:HIS:HE2	1:B:906:CYS:HG	1.46	0.61
1:B:2724:GLU:HA	1:B:2738:ARG:HH22	1.65	0.61
1:B:3324:VAL:O	1:B:3364:ARG:NH2	2.33	0.61
1:C:2269:GLY:O	1:C:2330:ARG:NH2	2.34	0.61
1:C:3553:LEU:HD21	1:C:3596:VAL:HG11	1.83	0.61
1:C:3836:MET:SD	1:C:3837:GLN:NE2	2.74	0.61
1:A:408:ALA:HB2	1:A:483:MET:HE1	1.83	0.60
1:A:2430:ILE:HG13	1:A:2502:MET:HE1	1.83	0.60
1:A:2644:LEU:O	1:A:2647:HIS:ND1	2.33	0.60
1:A:2963:LEU:HD21	1:A:3006:ILE:HD11	1.83	0.60
1:A:4879:MET:HA	1:A:4879:MET:HE2	1.83	0.60
2:F:55:VAL:HG11	2:F:59:TRP:HE3	1.65	0.60
2:F:56:ILE:HD12	1:B:1783:VAL:O	2.00	0.60
1:B:176:SER:HB2	1:B:178:ARG:HD2	1.81	0.60
1:D:1451:GLY:HA3	1:D:1494:MET:HA	1.81	0.60
1:D:2517:PHE:O	1:D:2520:HIS:ND1	2.33	0.60
1:D:4952:GLU:O	1:D:4956:THR:OG1	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2203:MET:N	1:C:2203:MET:SD	2.72	0.60
1:C:3366:ARG:HA	1:C:3441:ILE:HD11	1.82	0.60
1:A:755:ILE:HD12	1:A:768:PHE:HD2	1.67	0.60
1:A:765:GLN:N	1:A:765:GLN:OE1	2.30	0.60
1:B:622:THR:HG23	1:B:626:LEU:HD12	1.83	0.60
1:B:2283:ASN:HD22	1:B:2286:LEU:HG	1.65	0.60
1:B:3136:LEU:O	1:B:3140:LEU:HG	2.01	0.60
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.36	0.60
1:B:4580:TYR:CD2	1:B:4632:LEU:HB2	2.33	0.60
1:D:1160:ILE:O	1:D:1177:THR:OG1	2.18	0.60
1:D:2515:GLN:OE1	1:D:2515:GLN:N	2.28	0.60
1:D:2724:GLU:HA	1:D:2738:ARG:HH22	1.65	0.60
1:D:3172:ILE:HD13	1:D:3194:LEU:HD22	1.82	0.60
1:D:3366:ARG:HA	1:D:3441:ILE:HD11	1.81	0.60
1:D:3539:ARG:HG3	1:D:3549:VAL:HG22	1.82	0.60
1:C:2151:ASP:OD1	1:C:2188:ASN:ND2	2.34	0.60
1:C:2548:LEU:O	1:C:2552:ARG:HG2	2.00	0.60
1:C:2698:MET:HE3	1:C:2698:MET:O	2.01	0.60
1:C:3723:MET:HA	1:C:3723:MET:HE3	1.84	0.60
1:C:3989:VAL:HG22	1:C:4023:MET:HE1	1.82	0.60
1:C:4176:PRO:O	1:C:4202:ARG:NH1	2.33	0.60
1:A:38:ALA:HB1	1:A:64:ILE:HG13	1.83	0.60
1:A:283:ARG:HH12	1:A:285:VAL:HA	1.66	0.60
1:A:1160:ILE:O	1:A:1177:THR:OG1	2.18	0.60
1:A:1995:THR:O	1:A:1999:ARG:N	2.31	0.60
1:A:4144:ALA:O	1:A:4148:THR:HG23	2.01	0.60
1:B:1160:ILE:O	1:B:1177:THR:OG1	2.18	0.60
1:B:1541:GLN:NE2	1:B:1542:VAL:O	2.34	0.60
1:B:3989:VAL:HG22	1:B:4023:MET:HE1	1.82	0.60
1:B:4664:LEU:HB3	1:B:4665:LYS:HZ2	1.66	0.60
1:D:3282:PRO:O	1:D:3285:TRP:N	2.35	0.60
1:D:4664:LEU:HB3	1:D:4665:LYS:HZ2	1.65	0.60
1:C:349:GLN:OE1	1:C:350:HIS:N	2.33	0.60
1:C:2318:TYR:OH	1:C:2416:VAL:O	2.16	0.60
1:C:4952:GLU:O	1:C:4956:THR:OG1	2.19	0.60
1:A:472:ARG:HA	1:A:472:ARG:NH1	2.16	0.60
1:A:1246:GLU:O	1:A:1599:MET:N	2.31	0.60
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.36	0.60
1:A:3723:MET:HA	1:A:3723:MET:HE3	1.84	0.60
1:A:3836:MET:SD	1:A:3837:GLN:NE2	2.74	0.60
2:H:78:PRO:HA	2:H:81:ALA:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1296:GLN:NE2	1:B:1545:ASN:OD1	2.34	0.60
1:B:2963:LEU:HD21	1:B:3006:ILE:HD11	1.83	0.60
1:B:4144:ALA:O	1:B:4148:THR:HG23	2.01	0.60
1:D:1438:ARG:NH1	1:D:1513:ASP:OD1	2.33	0.60
1:D:3158:LEU:O	1:D:3162:GLN:NE2	2.34	0.60
1:D:3590:GLU:H	1:D:3590:GLU:CD	2.09	0.60
1:C:3981:ALA:HA	1:C:3986:TRP:CZ2	2.36	0.60
1:A:2269:GLY:O	1:A:2330:ARG:NH2	2.34	0.60
1:A:3553:LEU:HD21	1:A:3596:VAL:HG11	1.83	0.60
2:E:55:VAL:HG11	2:E:59:TRP:CE3	2.37	0.60
1:B:283:ARG:HH12	1:B:285:VAL:HA	1.66	0.60
1:B:408:ALA:HB2	1:B:483:MET:HE1	1.83	0.60
1:B:894:GLY:HA3	1:B:903:LEU:HB3	1.82	0.60
1:B:3723:MET:HE3	1:B:3723:MET:HA	1.84	0.60
1:B:3836:MET:SD	1:B:3837:GLN:NE2	2.74	0.60
1:D:1452:TRP:CD1	1:D:1452:TRP:H	2.18	0.60
1:D:2151:ASP:OD1	1:D:2188:ASN:ND2	2.34	0.60
1:D:2698:MET:O	1:D:2698:MET:HE3	2.01	0.60
1:C:69:LEU:HA	1:C:109:LEU:HA	1.84	0.60
1:C:176:SER:HB2	1:C:178:ARG:HD2	1.81	0.60
1:C:1754:GLY:O	1:C:1758:ARG:N	2.34	0.60
1:C:3655:GLU:HA	1:C:3658:LYS:HE3	1.83	0.60
1:A:69:LEU:HA	1:A:109:LEU:HA	1.84	0.60
1:A:1754:GLY:O	1:A:1758:ARG:N	2.35	0.60
1:A:2151:ASP:OD1	1:A:2188:ASN:ND2	2.34	0.60
1:A:2698:MET:O	1:A:2698:MET:HE3	2.01	0.60
1:B:218:HIS:N	1:B:261:ARG:HH22	1.98	0.60
1:B:1263:THR:OG1	1:B:1265:ASP:OD2	2.18	0.60
1:B:1857:GLU:OE2	1:B:1861:GLN:NE2	2.35	0.60
1:B:2269:GLY:O	1:B:2330:ARG:NH2	2.34	0.60
1:B:2698:MET:O	1:B:2698:MET:HE3	2.01	0.60
1:B:3172:ILE:HD13	1:B:3194:LEU:HD22	1.82	0.60
1:B:3553:LEU:HD21	1:B:3596:VAL:HG11	1.83	0.60
1:B:4711:PHE:HB3	1:B:4712:PRO:CD	2.30	0.60
1:D:349:GLN:OE1	1:D:350:HIS:N	2.33	0.60
1:D:984:LEU:HA	1:D:987:ARG:HE	1.66	0.60
1:D:1291:LEU:HD12	1:D:1550:PRO:HB2	1.83	0.60
1:D:3358:PHE:O	1:D:3362:ILE:HG12	2.01	0.60
1:C:1541:GLN:NE2	1:C:1542:VAL:O	2.34	0.60
1:C:2639:MET:SD	1:C:2639:MET:N	2.72	0.60
1:C:3250:MET:N	1:C:3250:MET:SD	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:LEU:HA	1:A:987:ARG:HE	1.66	0.60
1:A:1974:ARG:HH21	1:A:3642:TYR:HB2	1.67	0.60
1:A:3590:GLU:CD	1:A:3590:GLU:H	2.09	0.60
1:B:472:ARG:NH1	1:B:472:ARG:HA	2.16	0.60
1:B:2679:PHE:HE2	1:B:2707:ALA:HB2	1.66	0.60
1:D:755:ILE:HD12	1:D:768:PHE:HD2	1.66	0.60
1:D:2269:GLY:O	1:D:2330:ARG:NH2	2.34	0.60
1:D:2644:LEU:O	1:D:2647:HIS:ND1	2.33	0.60
1:D:2679:PHE:HE2	1:D:2707:ALA:HB2	1.66	0.60
1:D:4689:THR:OG1	1:D:4690:GLU:OE1	2.16	0.60
1:D:4879:MET:HA	1:D:4879:MET:HE2	1.83	0.60
1:C:622:THR:HG23	1:C:626:LEU:HD12	1.83	0.60
1:C:1653:LEU:HD21	1:C:1660:GLN:HA	1.82	0.60
1:C:2679:PHE:HE2	1:C:2707:ALA:HB2	1.66	0.60
1:A:349:GLN:OE1	1:A:350:HIS:N	2.33	0.60
1:A:531:ARG:NH1	1:A:566:CYS:SG	2.75	0.60
1:A:2283:ASN:HD22	1:A:2286:LEU:HG	1.65	0.60
1:A:3446:SER:O	1:A:3452:LYS:NZ	2.35	0.60
1:A:3539:ARG:HG3	1:A:3549:VAL:HG22	1.82	0.60
2:F:105:LYS:NZ	2:F:106:LEU:H	2.00	0.60
1:B:38:ALA:HB1	1:B:64:ILE:HG13	1.83	0.60
1:B:755:ILE:HD12	1:B:768:PHE:HD2	1.67	0.60
1:B:3655:GLU:HA	1:B:3658:LYS:HE3	1.83	0.60
1:D:1982:ARG:NE	1:D:1982:ARG:O	2.32	0.60
1:D:2318:TYR:OH	1:D:2416:VAL:O	2.16	0.60
1:D:2621:HIS:NE2	1:D:2915:GLU:OE2	2.35	0.60
1:D:3711:THR:O	1:D:3713:LYS:NZ	2.34	0.60
1:D:3723:MET:HA	1:D:3723:MET:HE3	1.84	0.60
1:D:3989:VAL:HG22	1:D:4023:MET:HE1	1.82	0.60
1:C:1981:MET:N	1:C:1981:MET:SD	2.75	0.60
1:C:3282:PRO:O	1:C:3285:TRP:N	2.34	0.60
1:C:3788:GLY:HA3	1:C:3834:ALA:HB3	1.84	0.60
1:C:3947:GLY:O	1:C:3951:PHE:HD1	1.85	0.60
1:C:4580:TYR:CD2	1:C:4632:LEU:HB2	2.33	0.60
1:A:717:ASP:HB2	1:A:722:TRP:CD1	2.37	0.60
1:A:1674:CYS:HB2	1:A:1685:LEU:HD11	1.84	0.60
1:A:2433:LEU:HD11	1:A:2457:LEU:HD22	1.84	0.60
1:A:3282:PRO:O	1:A:3285:TRP:N	2.35	0.60
1:A:3989:VAL:HG22	1:A:4023:MET:HE1	1.82	0.60
2:E:20:GLN:OE1	2:E:20:GLN:N	2.35	0.60
2:H:59:TRP:CE3	1:D:1783:VAL:HG11	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:105:LYS:NZ	2:H:106:LEU:O	2.34	0.60
1:B:213:TYR:H	1:B:341:TYR:H	1.50	0.60
1:B:4157:ASP:OD1	1:B:4159:ARG:NE	2.35	0.60
1:D:1263:THR:OG1	1:D:1265:ASP:OD2	2.18	0.60
1:D:1296:GLN:NE2	1:D:1545:ASN:OD1	2.34	0.60
1:C:283:ARG:HH12	1:C:285:VAL:HA	1.66	0.60
1:C:717:ASP:HB2	1:C:722:TRP:CD1	2.37	0.60
1:A:1857:GLU:OE2	1:A:1861:GLN:NE2	2.35	0.60
1:A:3358:PHE:O	1:A:3362:ILE:HG12	2.01	0.60
1:A:4157:ASP:OD1	1:A:4159:ARG:NE	2.35	0.60
1:A:4921:PHE:HA	1:A:4925:ILE:HD12	1.82	0.60
2:H:57:ARG:HH22	2:H:80:TYR:HA	1.67	0.60
1:B:233:ILE:O	1:B:257:ARG:NH2	2.21	0.60
1:B:531:ARG:NH1	1:B:566:CYS:SG	2.75	0.60
1:B:2265:LEU:HD12	1:B:2330:ARG:HB2	1.84	0.60
1:D:1674:CYS:HB2	1:D:1685:LEU:HD11	1.84	0.60
1:D:3947:GLY:O	1:D:3951:PHE:HD1	1.85	0.60
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.84	0.60
1:C:3322:ILE:O	1:C:3326:ASN:ND2	2.33	0.60
1:A:817:PRO:O	1:A:820:ARG:NH2	2.31	0.59
1:A:2639:MET:SD	1:A:2639:MET:N	2.72	0.59
1:A:3136:LEU:O	1:A:3140:LEU:HG	2.01	0.59
1:A:3322:ILE:O	1:A:3326:ASN:ND2	2.33	0.59
1:A:3711:THR:O	1:A:3713:LYS:NZ	2.34	0.59
2:H:94:HIS:ND1	2:H:94:HIS:O	2.35	0.59
1:B:439:GLU:OE2	1:B:439:GLU:N	2.25	0.59
1:B:984:LEU:HA	1:B:987:ARG:HE	1.66	0.59
1:B:2639:MET:SD	1:B:2639:MET:N	2.72	0.59
1:B:3250:MET:N	1:B:3250:MET:SD	2.75	0.59
1:B:3282:PRO:O	1:B:3285:TRP:N	2.35	0.59
1:B:3788:GLY:HA3	1:B:3834:ALA:HB3	1.84	0.59
1:D:1808:ARG:NH1	1:D:1853:ILE:O	2.35	0.59
1:D:1965:TYR:CZ	1:D:1969:LEU:HD21	2.37	0.59
1:D:2158:CYS:O	1:D:2162:ILE:HG12	2.03	0.59
1:D:2518:LEU:HD22	1:D:2565:CYS:HB3	1.84	0.59
1:D:3250:MET:N	1:D:3250:MET:SD	2.75	0.59
1:D:3446:SER:O	1:D:3452:LYS:NZ	2.35	0.59
1:D:4144:ALA:O	1:D:4148:THR:HG23	2.01	0.59
1:C:894:GLY:HA3	1:C:903:LEU:HB3	1.82	0.59
1:C:1170:MET:HE3	1:C:1171:SER:O	2.03	0.59
1:C:1674:CYS:HB2	1:C:1685:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2566:ALA:HA	1:C:2569:PHE:HB2	1.82	0.59
1:C:3670:GLU:HB3	1:C:3728:ILE:HG23	1.84	0.59
1:A:1263:THR:OG1	1:A:1265:ASP:OD2	2.18	0.59
1:A:1717:SER:HA	1:A:1721:GLU:HB3	1.84	0.59
1:A:1732:SER:O	1:A:2140:ARG:NE	2.35	0.59
1:A:3991:GLY:O	1:A:3994:HIS:ND1	2.36	0.59
2:G:59:TRP:CE3	1:C:1783:VAL:HG11	2.37	0.59
1:B:717:ASP:HB2	1:B:722:TRP:CD1	2.37	0.59
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.34	0.59
1:B:2621:HIS:NE2	1:B:2915:GLU:OE2	2.35	0.59
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.84	0.59
1:B:3590:GLU:H	1:B:3590:GLU:CD	2.09	0.59
1:D:1974:ARG:HH21	1:D:3642:TYR:HB2	1.67	0.59
1:D:2442:LEU:H	1:D:2444:GLN:HE21	1.50	0.59
1:D:3136:LEU:O	1:D:3140:LEU:HG	2.01	0.59
1:D:3315:LEU:HA	1:D:3318:ASN:HD22	1.67	0.59
1:D:3553:LEU:HD21	1:D:3596:VAL:HG11	1.83	0.59
1:C:1732:SER:O	1:C:2140:ARG:NE	2.35	0.59
1:C:2621:HIS:NE2	1:C:2915:GLU:OE2	2.35	0.59
1:C:3539:ARG:HG3	1:C:3549:VAL:HG22	1.82	0.59
1:A:213:TYR:H	1:A:341:TYR:H	1.50	0.59
1:A:1965:TYR:CZ	1:A:1969:LEU:HD21	2.37	0.59
1:A:2442:LEU:H	1:A:2444:GLN:HE21	1.50	0.59
1:A:2621:HIS:NE2	1:A:2915:GLU:OE2	2.35	0.59
1:A:2999:ALA:HA	1:A:3003:LEU:HD12	1.82	0.59
1:A:3970:GLN:HE21	1:A:5004:THR:HA	1.67	0.59
1:A:4556:SER:HB2	1:A:4664:LEU:HD13	1.83	0.59
2:G:88:PRO:HA	1:C:623:GLU:OE1	2.02	0.59
1:B:647:ASN:ND2	1:B:820:ARG:O	2.33	0.59
1:B:1965:TYR:CZ	1:B:1969:LEU:HD21	2.37	0.59
1:B:4873:ASP:OD1	1:B:4875:LYS:NZ	2.36	0.59
1:D:46:LEU:HD13	1:D:134:ASP:HB2	1.84	0.59
1:D:261:ARG:NH2	1:D:262:LEU:O	2.28	0.59
1:D:1717:SER:HA	1:D:1721:GLU:HB3	1.84	0.59
1:D:2627:VAL:HG13	1:D:2678:LEU:HD21	1.84	0.59
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.84	0.59
1:D:3991:GLY:O	1:D:3994:HIS:ND1	2.36	0.59
1:C:261:ARG:NH2	1:C:262:LEU:O	2.28	0.59
1:C:472:ARG:NH1	1:C:475:GLN:OE1	2.35	0.59
1:C:913:LEU:HD23	1:C:918:ARG:HG2	1.84	0.59
1:C:1857:GLU:OE2	1:C:1861:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2265:LEU:HD12	1:C:2330:ARG:HB2	1.84	0.59
1:C:2430:ILE:HG13	1:C:2502:MET:HE1	1.83	0.59
1:C:3358:PHE:O	1:C:3362:ILE:HG12	2.01	0.59
1:C:3446:SER:O	1:C:3452:LYS:NZ	2.35	0.59
1:C:3590:GLU:CD	1:C:3590:GLU:H	2.09	0.59
1:C:3991:GLY:O	1:C:3994:HIS:ND1	2.36	0.59
1:A:261:ARG:NH2	1:A:262:LEU:O	2.28	0.59
1:A:1981:MET:N	1:A:1981:MET:SD	2.75	0.59
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.34	0.59
1:A:3592:ILE:O	1:A:3596:VAL:HG23	2.03	0.59
1:A:3788:GLY:HA3	1:A:3834:ALA:HB3	1.84	0.59
2:E:105:LYS:HD2	2:E:106:LEU:N	2.17	0.59
1:B:1733:GLU:OE1	1:B:1733:GLU:N	2.27	0.59
1:B:1981:MET:N	1:B:1981:MET:SD	2.75	0.59
1:B:2566:ALA:HA	1:B:2569:PHE:HB2	1.82	0.59
1:B:2868:SER:HB3	1:B:2871:LEU:HD22	1.84	0.59
1:B:3446:SER:O	1:B:3452:LYS:NZ	2.35	0.59
1:B:3947:GLY:O	1:B:3951:PHE:HD1	1.85	0.59
1:D:531:ARG:NH1	1:D:566:CYS:SG	2.75	0.59
1:D:717:ASP:HB2	1:D:722:TRP:CD1	2.37	0.59
1:D:1732:SER:O	1:D:2140:ARG:NE	2.35	0.59
1:D:2265:LEU:HD12	1:D:2330:ARG:HB2	1.84	0.59
1:D:2999:ALA:HA	1:D:3003:LEU:HD12	1.82	0.59
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.84	0.59
1:C:1974:ARG:HH21	1:C:3642:TYR:HB2	1.67	0.59
1:C:2741:GLU:HG2	1:C:2743:LEU:HD23	1.85	0.59
1:C:3763:LEU:HA	1:C:3766:GLN:OE1	2.02	0.59
1:A:46:LEU:HD13	1:A:134:ASP:HB2	1.84	0.59
1:A:234:SER:O	1:A:242:ARG:NE	2.34	0.59
1:A:472:ARG:NH1	1:A:475:GLN:OE1	2.35	0.59
1:A:1170:MET:HE3	1:A:1171:SER:O	2.02	0.59
1:A:1616:GLU:OE1	1:A:1616:GLU:N	2.36	0.59
1:A:3250:MET:N	1:A:3250:MET:SD	2.75	0.59
1:A:3793:MET:HA	1:A:3793:MET:HE3	1.85	0.59
1:A:4681:LEU:HD13	1:A:4724:VAL:HG21	1.85	0.59
1:B:181:HIS:ND1	1:B:198:THR:OG1	2.28	0.59
1:B:2430:ILE:HG13	1:B:2502:MET:HE1	1.83	0.59
1:B:3763:LEU:HA	1:B:3766:GLN:OE1	2.02	0.59
1:D:213:TYR:H	1:D:341:TYR:H	1.50	0.59
1:D:472:ARG:NH1	1:D:475:GLN:OE1	2.35	0.59
1:D:1543:GLU:O	1:D:1546:THR:OG1	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2799:GLU:HA	1:D:2802:LYS:HG3	1.84	0.59
1:D:4564:PHE:HA	1:D:4567:LEU:HG	1.85	0.59
1:D:5013:MET:HG2	1:D:5021:PHE:HB3	1.84	0.59
1:C:120:CYS:HA	1:C:135:VAL:HA	1.84	0.59
1:C:181:HIS:ND1	1:C:198:THR:OG1	2.28	0.59
1:C:1476:MET:HA	1:C:1476:MET:HE3	1.85	0.59
1:C:2226:PRO:HB2	1:C:2268[A]:GLN:HE21	1.67	0.59
1:C:3722:TYR:HD2	1:C:3793:MET:HE2	1.67	0.59
1:C:3767:GLN:NE2	1:C:3806:ASN:O	2.29	0.59
1:A:497:TYR:O	1:A:553:ARG:NH2	2.33	0.59
1:A:2799:GLU:HA	1:A:2802:LYS:HG3	1.84	0.59
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.84	0.59
1:A:3354:LEU:HG	1:A:3358:PHE:HB3	1.85	0.59
1:A:3655:GLU:HA	1:A:3658:LYS:HE3	1.83	0.59
1:A:4873:ASP:OD1	1:A:4875:LYS:NZ	2.36	0.59
1:B:1616:GLU:OE1	1:B:1616:GLU:N	2.36	0.59
1:B:3333:THR:OG1	1:B:3337:ARG:NH1	2.35	0.59
1:B:3358:PHE:O	1:B:3362:ILE:HG12	2.01	0.59
1:D:913:LEU:HD23	1:D:918:ARG:HG2	1.84	0.59
1:D:1170:MET:HE3	1:D:1171:SER:O	2.02	0.59
1:D:1857:GLU:OE2	1:D:1861:GLN:NE2	2.35	0.59
1:D:3333:THR:OG1	1:D:3337:ARG:NH1	2.35	0.59
1:D:3655:GLU:HA	1:D:3658:LYS:HE3	1.83	0.59
1:D:4681:LEU:HD13	1:D:4724:VAL:HG21	1.85	0.59
1:C:119:SER:O	1:C:136:GLY:N	2.33	0.59
1:C:1965:TYR:CZ	1:C:1969:LEU:HD21	2.37	0.59
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.34	0.59
1:C:2111:VAL:HB	1:C:2117:VAL:HG22	1.85	0.59
1:C:2433:LEU:HD11	1:C:2457:LEU:HD22	1.84	0.59
1:C:4873:ASP:OD1	1:C:4875:LYS:NZ	2.36	0.59
1:C:4879:MET:HE2	1:C:4879:MET:HA	1.83	0.59
1:A:685:GLY:HA3	1:A:715:GLY:HA2	1.85	0.59
1:A:1221:GLU:OE2	1:A:1221:GLU:N	2.27	0.59
1:A:2517:PHE:O	1:A:2520:HIS:ND1	2.33	0.59
1:A:2970:SER:HA	1:A:2973:PHE:CD2	2.38	0.59
1:A:3670:GLU:HB3	1:A:3728:ILE:HG23	1.84	0.59
1:A:3763:LEU:HA	1:A:3766:GLN:OE1	2.02	0.59
1:B:69:LEU:HA	1:B:109:LEU:HA	1.84	0.59
1:B:497:TYR:O	1:B:553:ARG:NH2	2.33	0.59
1:B:1754:GLY:O	1:B:1758:ARG:N	2.35	0.59
1:B:2782:ASP:OD1	1:B:2787:THR:OG1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1981:MET:SD	1:D:1981:MET:N	2.75	0.59
1:D:2111:VAL:HB	1:D:2117:VAL:HG22	1.85	0.59
1:D:2868:SER:HB3	1:D:2871:LEU:HD22	1.84	0.59
1:D:3244:PRO:HD2	1:D:3249:LEU:HD21	1.85	0.59
1:D:3793:MET:HA	1:D:3793:MET:HE3	1.85	0.59
1:C:3272:ILE:C	1:C:3275:PRO:HD2	2.28	0.59
1:A:119:SER:O	1:A:136:GLY:N	2.33	0.59
1:A:1277:TRP:HD1	1:A:1559:GLN:HG3	1.68	0.59
1:A:2226:PRO:HB2	1:A:2268[A]:GLN:HE21	1.67	0.59
1:A:2265:LEU:HD12	1:A:2330:ARG:HB2	1.84	0.59
1:A:2518:LEU:HD22	1:A:2565:CYS:HB3	1.84	0.59
1:A:3242:ASP:N	1:A:3242:ASP:OD1	2.33	0.59
2:E:21:THR:HA	2:E:49:MET:HA	1.83	0.59
1:B:1170:MET:HE3	1:B:1171:SER:O	2.02	0.59
1:B:2111:VAL:HB	1:B:2117:VAL:HG22	1.85	0.59
1:B:2669:GLU:HA	1:B:2672:LEU:HB2	1.85	0.59
1:D:685:GLY:HA3	1:D:715:GLY:HA2	1.85	0.59
1:D:1754:GLY:O	1:D:1758:ARG:N	2.35	0.59
1:D:2430:ILE:HG13	1:D:2502:MET:HE1	1.83	0.59
1:D:2433:LEU:HD11	1:D:2457:LEU:HD22	1.84	0.59
1:D:2640:PRO:HA	1:D:2643:LEU:HG	1.85	0.59
1:D:2669:GLU:HA	1:D:2672:LEU:HB2	1.85	0.59
1:D:2963:LEU:HD21	1:D:3006:ILE:HD11	1.83	0.59
1:D:3566:SER:H	1:D:3569:LEU:HD12	1.67	0.59
1:D:3788:GLY:HA3	1:D:3834:ALA:HB3	1.84	0.59
1:D:4556:SER:HB2	1:D:4664:LEU:HD13	1.83	0.59
1:C:115:ARG:HD2	1:C:395:GLN:HE22	1.68	0.59
1:C:1616:GLU:N	1:C:1616:GLU:OE1	2.36	0.59
1:C:2348:GLU:O	1:C:2352:VAL:HG23	2.02	0.59
1:C:3333:THR:OG1	1:C:3337:ARG:NH1	2.35	0.59
1:C:3836:MET:C	1:C:3836:MET:HE2	2.28	0.59
1:A:2669:GLU:HA	1:A:2672:LEU:HB2	1.85	0.59
1:A:3333:THR:OG1	1:A:3337:ARG:NH1	2.35	0.59
1:A:3947:GLY:O	1:A:3951:PHE:HD1	1.85	0.59
1:B:467:LYS:NZ	1:B:471:LEU:HB2	2.17	0.59
1:B:817:PRO:O	1:B:820:ARG:NH2	2.31	0.59
1:B:1476:MET:HA	1:B:1476:MET:HE3	1.85	0.59
1:B:2627:VAL:HG13	1:B:2678:LEU:HD21	1.84	0.59
1:B:2799:GLU:HA	1:B:2802:LYS:HG3	1.84	0.59
1:B:4556:SER:HB2	1:B:4664:LEU:HD13	1.83	0.59
1:D:2516:ASP:OD1	1:D:2516:ASP:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3272:ILE:C	1:D:3275:PRO:HD2	2.28	0.59
1:C:38:ALA:HB1	1:C:64:ILE:HG13	1.83	0.59
1:C:213:TYR:H	1:C:341:TYR:H	1.50	0.59
1:C:239:ASP:OD2	1:C:239:ASP:N	2.32	0.59
1:C:531:ARG:NH1	1:C:566:CYS:SG	2.75	0.59
1:C:3354:LEU:HG	1:C:3358:PHE:HB3	1.85	0.59
1:C:3819:TYR:O	1:C:3823:LYS:HG2	2.03	0.59
1:C:4681:LEU:HD13	1:C:4724:VAL:HG21	1.85	0.59
1:A:1452:TRP:CD1	1:A:1452:TRP:H	2.18	0.59
1:A:1979:LEU:O	1:A:1983:ALA:N	2.34	0.59
1:A:3272:ILE:C	1:A:3275:PRO:HD2	2.28	0.59
1:A:3819:TYR:O	1:A:3823:LYS:HG2	2.03	0.59
1:A:4001:MET:O	1:A:4005:GLN:NE2	2.34	0.59
1:B:472:ARG:NH1	1:B:475:GLN:OE1	2.35	0.59
1:B:1732:SER:O	1:B:2140:ARG:NE	2.35	0.59
1:B:3244:PRO:HD2	1:B:3249:LEU:HD21	1.85	0.59
1:B:4001:MET:O	1:B:4005:GLN:NE2	2.34	0.59
1:D:404:ILE:HG21	1:D:481:GLU:HG3	1.85	0.59
1:D:771:PHE:HB3	1:D:1472:VAL:HG23	1.85	0.59
1:D:1220:GLN:OE1	1:C:3522:LEU:CB	2.50	0.59
1:D:2970:SER:HA	1:D:2973:PHE:CD2	2.38	0.59
1:D:3722:TYR:HD2	1:D:3793:MET:HE2	1.67	0.59
1:D:3763:LEU:HA	1:D:3766:GLN:OE1	2.02	0.59
1:D:3970:GLN:HE21	1:D:5004:THR:HA	1.67	0.59
1:C:467:LYS:NZ	1:C:471:LEU:HB2	2.17	0.59
1:C:2782:ASP:OD1	1:C:2787:THR:OG1	2.21	0.59
1:C:2963:LEU:HD21	1:C:3006:ILE:HD11	1.83	0.59
1:C:2967:MET:HE3	1:C:3042:LEU:HD22	1.85	0.59
1:C:3566:SER:H	1:C:3569:LEU:HD12	1.67	0.59
1:C:4564:PHE:HA	1:C:4567:LEU:HG	1.85	0.59
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.84	0.59
1:A:916:PRO:HA	1:A:919:ASN:HD22	1.68	0.58
1:A:1745:ILE:O	1:A:1964:ARG:NH2	2.36	0.58
1:A:2158:CYS:O	1:A:2162:ILE:HG12	2.02	0.58
1:A:5013:MET:HG2	1:A:5021:PHE:HB3	1.84	0.58
2:H:8:SER:HB3	2:H:71:ARG:HB3	1.85	0.58
2:F:24:VAL:HG12	2:F:103:LEU:HA	1.84	0.58
1:B:15:ARG:HA	1:B:100:THR:HA	1.84	0.58
1:B:904:HIS:NE2	1:B:906:CYS:SG	2.73	0.58
1:B:915:GLU:OE1	1:B:915:GLU:N	2.36	0.58
1:B:916:PRO:HA	1:B:919:ASN:HD22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2158:CYS:O	1:B:2162:ILE:HG12	2.02	0.58
1:B:3267:PRO:O	1:B:3271:GLU:HB2	2.03	0.58
1:B:3315:LEU:O	1:B:3319:ILE:HG12	2.03	0.58
1:B:3315:LEU:HA	1:B:3318:ASN:HD22	1.67	0.58
1:B:3354:LEU:HG	1:B:3358:PHE:HB3	1.85	0.58
1:B:3428:ASN:ND2	1:B:3430:ASN:OD1	2.29	0.58
1:B:3793:MET:HA	1:B:3793:MET:HE3	1.85	0.58
1:B:3836:MET:C	1:B:3836:MET:HE2	2.28	0.58
1:D:69:LEU:HA	1:D:109:LEU:HA	1.84	0.58
1:D:181:HIS:ND1	1:D:198:THR:OG1	2.28	0.58
1:D:467:LYS:NZ	1:D:471:LEU:HB2	2.17	0.58
1:D:817:PRO:O	1:D:820:ARG:NH2	2.31	0.58
1:D:3242:ASP:N	1:D:3242:ASP:OD1	2.33	0.58
1:D:3434:LEU:O	1:D:3438:VAL:HG12	2.03	0.58
1:D:3670:GLU:HB3	1:D:3728:ILE:HG23	1.84	0.58
1:C:915:GLU:N	1:C:915:GLU:OE1	2.36	0.58
1:C:984:LEU:HA	1:C:987:ARG:HE	1.66	0.58
1:C:2799:GLU:HA	1:C:2802:LYS:HG3	1.84	0.58
1:C:3315:LEU:O	1:C:3319:ILE:HG12	2.03	0.58
1:A:404:ILE:HG21	1:A:481:GLU:HG3	1.85	0.58
1:A:1808:ARG:NH1	1:A:1853:ILE:O	2.35	0.58
1:A:2013:LYS:NZ	1:A:3661:TRP:O	2.36	0.58
1:A:2111:VAL:HB	1:A:2117:VAL:HG22	1.85	0.58
1:A:3244:PRO:HD2	1:A:3249:LEU:HD21	1.85	0.58
1:B:404:ILE:HG21	1:B:481:GLU:HG3	1.85	0.58
1:B:2433:LEU:HD11	1:B:2457:LEU:HD22	1.84	0.58
1:B:2442:LEU:H	1:B:2444:GLN:HE21	1.50	0.58
1:B:2967:MET:HE3	1:B:3042:LEU:HD22	1.85	0.58
1:B:3970:GLN:HE21	1:B:5004:THR:HA	1.67	0.58
1:D:38:ALA:HB1	1:D:64:ILE:HG13	1.83	0.58
1:D:2741:GLU:HG2	1:D:2743:LEU:HD23	1.84	0.58
1:D:2782:ASP:OD1	1:D:2787:THR:OG1	2.21	0.58
1:C:15:ARG:HA	1:C:100:THR:HA	1.84	0.58
1:C:1717:SER:HA	1:C:1721:GLU:HB3	1.84	0.58
1:C:1745:ILE:O	1:C:1964:ARG:NH2	2.36	0.58
1:C:2158:CYS:O	1:C:2162:ILE:HG12	2.02	0.58
1:C:3244:PRO:HD2	1:C:3249:LEU:HD21	1.85	0.58
1:C:3793:MET:HA	1:C:3793:MET:HE3	1.85	0.58
1:A:467:LYS:NZ	1:A:471:LEU:HB2	2.17	0.58
1:A:2627:VAL:HG13	1:A:2678:LEU:HD21	1.84	0.58
1:A:3014:CYS:SG	1:A:3074:SER:OG	2.59	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.84	0.58
2:E:58:GLY:HA3	2:E:80:TYR:HB3	1.84	0.58
2:E:75:THR:HG22	2:E:98:VAL:HG22	1.86	0.58
1:B:1745:ILE:O	1:B:1964:ARG:NH2	2.36	0.58
1:B:1974:ARG:HH21	1:B:3642:TYR:HB2	1.67	0.58
1:B:2013:LYS:NZ	1:B:3661:TRP:O	2.36	0.58
1:B:2348:GLU:O	1:B:2352:VAL:HG23	2.02	0.58
1:B:3272:ILE:C	1:B:3275:PRO:HD2	2.28	0.58
1:B:3592:ILE:O	1:B:3596:VAL:HG23	2.03	0.58
1:B:4068:LEU:O	1:B:4072:VAL:HG22	2.04	0.58
1:B:4681:LEU:HD13	1:B:4724:VAL:HG21	1.85	0.58
1:D:154:SER:OG	1:D:155:LYS:N	2.34	0.58
1:D:1277:TRP:HD1	1:D:1559:GLN:HG3	1.68	0.58
1:D:2348:GLU:O	1:D:2352:VAL:HG23	2.02	0.58
1:D:3354:LEU:HG	1:D:3358:PHE:HB3	1.85	0.58
1:D:3796:SER:HA	1:D:3799:LYS:HE3	1.86	0.58
1:D:3981:ALA:HA	1:D:3986:TRP:CZ2	2.36	0.58
1:D:4873:ASP:OD1	1:D:4875:LYS:NZ	2.36	0.58
1:C:647:ASN:ND2	1:C:820:ARG:O	2.33	0.58
1:C:755:ILE:HD12	1:C:768:PHE:HD2	1.67	0.58
1:C:1277:TRP:HD1	1:C:1559:GLN:HG3	1.68	0.58
1:C:2516:ASP:OD1	1:C:2516:ASP:N	2.35	0.58
1:C:2518:LEU:HD22	1:C:2565:CYS:HB3	1.84	0.58
1:C:2868:SER:HB3	1:C:2871:LEU:HD22	1.84	0.58
1:A:2352:VAL:O	1:A:2356:LEU:HG	2.03	0.58
2:E:25:HIS:ND1	2:E:40:ARG:HD2	2.19	0.58
1:B:1277:TRP:HD1	1:B:1559:GLN:HG3	1.68	0.58
1:B:1674:CYS:HB2	1:B:1685:LEU:HD11	1.84	0.58
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.04	0.58
1:B:3566:SER:H	1:B:3569:LEU:HD12	1.67	0.58
1:B:3943:ILE:HG22	1:B:3948:LYS:HG2	1.85	0.58
1:B:3991:GLY:O	1:B:3994:HIS:ND1	2.36	0.58
1:B:4584:ASP:HA	1:B:4628:VAL:HA	1.86	0.58
1:D:2044:ILE:HG23	1:D:3667:HIS:HD2	1.68	0.58
1:D:2226:PRO:HB2	1:D:2268[A]:GLN:HE21	1.67	0.58
1:D:2352:VAL:O	1:D:2356:LEU:HG	2.03	0.58
1:D:4157:ASP:OD1	1:D:4159:ARG:NE	2.35	0.58
1:C:394:GLN:HE22	1:C:396:GLU:H	1.51	0.58
1:C:2245:GLN:H	1:C:2245:GLN:CD	2.12	0.58
1:C:2352:VAL:O	1:C:2356:LEU:HG	2.03	0.58
1:C:3527:PRO:HG2	1:C:3572:GLN:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3592:ILE:O	1:C:3596:VAL:HG23	2.03	0.58
1:C:3943:ILE:HG22	1:C:3948:LYS:HG2	1.85	0.58
1:C:4556:SER:HB2	1:C:4664:LEU:HD13	1.83	0.58
1:C:4664:LEU:HB3	1:C:4665:LYS:HZ2	1.67	0.58
1:A:154:SER:OG	1:A:155:LYS:N	2.34	0.58
1:A:771:PHE:HB3	1:A:1472:VAL:HG23	1.85	0.58
1:A:913:LEU:HD23	1:A:918:ARG:HG2	1.84	0.58
1:A:2348:GLU:O	1:A:2352:VAL:HG23	2.02	0.58
1:A:5006:GLN:H	1:A:5006:GLN:CD	2.12	0.58
2:H:42:ARG:HB3	2:H:44:LYS:NZ	2.19	0.58
1:B:68:THR:O	1:B:110:ARG:N	2.34	0.58
1:B:115:ARG:HD2	1:B:395:GLN:HE22	1.68	0.58
1:B:929:LEU:O	1:B:933:LEU:HG	2.03	0.58
1:B:985:VAL:HB	1:B:1043:VAL:HG21	1.85	0.58
1:B:2226:PRO:HB2	1:B:2268[A]:GLN:HE21	1.67	0.58
1:B:3522:LEU:CD1	1:C:1220:GLN:HB3	2.07	0.58
1:B:3527:PRO:HG2	1:B:3572:GLN:HB3	1.86	0.58
1:B:3722:TYR:HD2	1:B:3793:MET:HE2	1.67	0.58
1:B:4564:PHE:HA	1:B:4567:LEU:HG	1.85	0.58
1:D:1616:GLU:OE1	1:D:1616:GLU:N	2.36	0.58
1:D:1995:THR:O	1:D:1999:ARG:N	2.31	0.58
1:D:3819:TYR:O	1:D:3823:LYS:HG2	2.03	0.58
1:D:4869:GLU:OE1	1:D:4869:GLU:N	2.29	0.58
1:C:46:LEU:HD13	1:C:134:ASP:HB2	1.84	0.58
1:C:3100:SER:HA	1:C:3103:ILE:HD12	1.85	0.58
1:C:3434:LEU:O	1:C:3438:VAL:HG12	2.03	0.58
1:C:3970:GLN:HE21	1:C:5004:THR:HA	1.67	0.58
1:C:4157:ASP:OD1	1:C:4159:ARG:NE	2.35	0.58
1:C:5013:MET:HG2	1:C:5021:PHE:HB3	1.84	0.58
1:A:2868:SER:HB3	1:A:2871:LEU:HD22	1.84	0.58
1:A:3308:THR:OG1	1:A:3310:ASP:OD2	2.16	0.58
1:A:3428:ASN:ND2	1:A:3430:ASN:OD1	2.29	0.58
1:A:3981:ALA:HA	1:A:3986:TRP:CZ2	2.36	0.58
2:G:78:PRO:HA	2:G:81:ALA:HB3	1.85	0.58
1:B:303:ASP:OD2	1:B:305:CYS:N	2.36	0.58
1:B:781:VAL:HG11	1:B:789:VAL:HG21	1.86	0.58
1:B:2970:SER:HA	1:B:2973:PHE:CD2	2.38	0.58
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.84	0.58
1:D:929:LEU:O	1:D:933:LEU:HG	2.03	0.58
1:D:1806:ALA:O	1:D:1810:LYS:HG2	2.04	0.58
1:D:2639:MET:SD	1:D:2639:MET:N	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3145:GLN:O	1:D:3149:GLN:HG3	2.04	0.58
1:D:3273:THR:HA	1:D:3276:MET:SD	2.44	0.58
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.84	0.58
1:D:3327:LEU:HB2	1:D:3364:ARG:HH21	1.69	0.58
1:D:3836:MET:HE2	1:D:3836:MET:C	2.28	0.58
1:C:404:ILE:HG21	1:C:481:GLU:HG3	1.85	0.58
1:C:929:LEU:O	1:C:933:LEU:HG	2.04	0.58
1:C:2044:ILE:HG23	1:C:3667:HIS:HD2	1.68	0.58
1:C:2293:GLN:OE1	1:C:2293:GLN:N	2.24	0.58
1:C:3014:CYS:SG	1:C:3074:SER:OG	2.59	0.58
1:C:3658:LYS:HA	1:C:3662:ILE:HG22	1.85	0.58
1:C:3788:GLY:HA2	1:C:3835:LEU:HG	1.86	0.58
1:C:4584:ASP:HA	1:C:4628:VAL:HA	1.86	0.58
1:A:781:VAL:HG11	1:A:789:VAL:HG21	1.86	0.58
1:A:2782:ASP:OD1	1:A:2787:THR:OG1	2.21	0.58
1:A:3527:PRO:HG2	1:A:3572:GLN:HB3	1.86	0.58
1:A:3836:MET:C	1:A:3836:MET:HE2	2.28	0.58
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.84	0.58
1:B:850:ASP:N	1:B:850:ASP:OD1	2.33	0.58
1:B:2091:PRO:HB3	1:B:2096:GLU:HB3	1.86	0.58
1:B:2245:GLN:CD	1:B:2245:GLN:H	2.12	0.58
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.03	0.58
1:B:2741:GLU:HG2	1:B:2743:LEU:HD23	1.85	0.58
1:B:3788:GLY:HA2	1:B:3835:LEU:HG	1.86	0.58
1:D:1246:GLU:O	1:D:1599:MET:N	2.30	0.58
1:D:2138:LEU:HD22	1:D:3658:LYS:HE2	1.86	0.58
1:D:3267:PRO:O	1:D:3271:GLU:HB2	2.03	0.58
1:D:3658:LYS:HA	1:D:3662:ILE:HG22	1.85	0.58
1:C:685:GLY:HA3	1:C:715:GLY:HA2	1.85	0.58
1:C:1808:ARG:NH1	1:C:1853:ILE:O	2.35	0.58
1:C:2595:LEU:O	1:C:2600:ARG:NH2	2.37	0.58
1:C:2970:SER:HA	1:C:2973:PHE:CD2	2.38	0.58
1:A:120:CYS:HA	1:A:135:VAL:HA	1.84	0.58
1:A:929:LEU:O	1:A:933:LEU:HG	2.03	0.58
1:A:3566:SER:H	1:A:3569:LEU:HD12	1.67	0.58
1:A:3969:ILE:HD11	1:A:3977:GLN:HG2	1.86	0.58
1:B:46:LEU:HD13	1:B:134:ASP:HB2	1.84	0.58
1:B:120:CYS:HA	1:B:135:VAL:HA	1.84	0.58
1:B:1717:SER:HA	1:B:1721:GLU:HB3	1.84	0.58
1:B:5013:MET:HG2	1:B:5021:PHE:HB3	1.84	0.58
1:D:2013:LYS:NZ	1:D:3661:TRP:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.34	0.58
1:D:2245:GLN:H	1:D:2245:GLN:CD	2.12	0.58
1:D:2967:MET:HE3	1:D:3042:LEU:HD22	1.85	0.58
1:D:3592:ILE:O	1:D:3596:VAL:HG23	2.03	0.58
1:C:2013:LYS:NZ	1:C:3661:TRP:O	2.36	0.58
1:C:2091:PRO:HB3	1:C:2096:GLU:HB3	1.86	0.58
1:C:2442:LEU:H	1:C:2444:GLN:HE21	1.50	0.58
1:C:2626:LEU:HD13	1:C:2644:LEU:HD21	1.85	0.58
1:C:2640:PRO:HA	1:C:2643:LEU:HG	1.84	0.58
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.84	0.58
1:C:3777:GLU:OE1	1:C:3777:GLU:N	2.35	0.58
1:C:5032:TYR:HB3	1:C:5036:LEU:HG	1.86	0.58
1:A:3315:LEU:HA	1:A:3318:ASN:HD22	1.67	0.58
1:A:3722:TYR:HD2	1:A:3793:MET:HE2	1.67	0.58
1:A:3735:LEU:HB3	1:A:3766:GLN:HE22	1.68	0.58
2:H:25:HIS:HE1	2:H:40:ARG:HA	1.69	0.58
1:B:394:GLN:HE22	1:B:396:GLU:H	1.51	0.58
1:B:1808:ARG:NH1	1:B:1853:ILE:O	2.35	0.58
1:B:2626:LEU:HD13	1:B:2644:LEU:HD21	1.85	0.58
1:B:3670:GLU:HB3	1:B:3728:ILE:HG23	1.84	0.58
1:B:3951:PHE:O	1:B:3955:MET:HG2	2.04	0.58
1:B:3969:ILE:HD11	1:B:3977:GLN:HG2	1.86	0.58
1:D:15:ARG:HA	1:D:100:THR:HA	1.84	0.58
1:D:120:CYS:HA	1:D:135:VAL:HA	1.84	0.58
1:D:781:VAL:HG11	1:D:789:VAL:HG21	1.86	0.58
1:D:1476:MET:HA	1:D:1476:MET:HE3	1.85	0.58
1:D:1575:LEU:O	1:D:1579:MET:HG3	2.04	0.58
1:D:2027:ILE:HA	1:D:2030:ASP:OD1	2.04	0.58
1:D:3527:PRO:HG2	1:D:3572:GLN:HB3	1.86	0.58
1:C:3273:THR:HA	1:C:3276:MET:SD	2.44	0.58
1:A:3327:LEU:HB2	1:A:3364:ARG:HH21	1.69	0.58
1:A:3811:GLU:HG2	1:A:3815:LYS:HE2	1.86	0.58
1:A:3951:PHE:O	1:A:3955:MET:HG2	2.04	0.58
1:B:685:GLY:HA3	1:B:715:GLY:HA2	1.85	0.58
1:B:1046:LEU:HA	1:B:1049:TYR:CD2	2.39	0.58
1:B:1575:LEU:O	1:B:1579:MET:HG3	2.04	0.58
1:B:3434:LEU:O	1:B:3438:VAL:HG12	2.03	0.58
1:B:3510:ILE:O	1:B:3514:LEU:HG	2.04	0.58
1:B:3658:LYS:HA	1:B:3662:ILE:HG22	1.85	0.58
1:B:3735:LEU:HB3	1:B:3766:GLN:HE22	1.68	0.58
1:B:5032:TYR:HB3	1:B:5036:LEU:HG	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3140:LEU:HA	1:D:3143:LEU:HD12	1.86	0.58
1:D:3735:LEU:HB3	1:D:3766:GLN:HE22	1.68	0.58
1:C:379:HIS:HB3	1:C:382:GLY:HA2	1.86	0.58
1:C:1772:ARG:NH2	1:C:1952:GLN:OE1	2.37	0.58
1:C:1806:ALA:O	1:C:1810:LYS:HG2	2.04	0.58
1:C:3315:LEU:HA	1:C:3318:ASN:HD22	1.67	0.58
1:C:3510:ILE:O	1:C:3514:LEU:HG	2.03	0.58
1:C:3735:LEU:HB3	1:C:3766:GLN:HE22	1.68	0.58
1:C:3951:PHE:O	1:C:3955:MET:HG2	2.04	0.58
1:A:213:TYR:N	1:A:341:TYR:H	2.02	0.57
1:A:985:VAL:HB	1:A:1043:VAL:HG21	1.85	0.57
1:A:1476:MET:HA	1:A:1476:MET:HE3	1.85	0.57
1:A:2798:SER:OG	1:A:2801:ASP:OD2	2.18	0.57
1:A:3267:PRO:O	1:A:3271:GLU:HB2	2.03	0.57
1:A:3777:GLU:OE1	1:A:3777:GLU:N	2.35	0.57
1:A:4564:PHE:HA	1:A:4567:LEU:HG	1.85	0.57
2:F:51:GLY:N	2:F:60:GLU:OE2	2.32	0.57
1:B:980:ALA:O	1:B:984:LEU:HG	2.04	0.57
1:B:1011:GLN:N	1:B:1011:GLN:OE1	2.37	0.57
1:B:1229:ASN:H	1:B:1827:ARG:NH2	2.02	0.57
1:B:2640:PRO:HA	1:B:2643:LEU:HG	1.85	0.57
1:B:3247:ASP:N	1:B:3247:ASP:OD1	2.37	0.57
1:B:3273:THR:HA	1:B:3276:MET:SD	2.44	0.57
1:B:3796:SER:HA	1:B:3799:LYS:HE3	1.86	0.57
1:B:3819:TYR:O	1:B:3823:LYS:HG2	2.03	0.57
1:B:4036:VAL:HG12	1:B:4153:HIS:HA	1.85	0.57
1:D:215:THR:HG22	1:D:273:HIS:HA	1.86	0.57
1:D:1745:ILE:O	1:D:1964:ARG:NH2	2.36	0.57
1:D:1873:GLU:OE1	1:D:1873:GLU:N	2.37	0.57
1:C:68:THR:O	1:C:110:ARG:N	2.34	0.57
1:C:3267:PRO:O	1:C:3271:GLU:HB2	2.03	0.57
1:C:3768:SER:HA	1:C:3771:HIS:NE2	2.19	0.57
1:C:3796:SER:HA	1:C:3799:LYS:HE3	1.86	0.57
1:C:4068:LEU:O	1:C:4072:VAL:HG22	2.04	0.57
1:A:681:HIS:CE1	1:A:683:ARG:HB2	2.39	0.57
1:A:2027:ILE:HA	1:A:2030:ASP:OD1	2.04	0.57
1:A:2245:GLN:H	1:A:2245:GLN:CD	2.12	0.57
1:A:2595:LEU:O	1:A:2600:ARG:NH2	2.37	0.57
1:A:3145:GLN:O	1:A:3149:GLN:HG3	2.04	0.57
1:A:3180:ASN:H	1:A:3183:VAL:HB	1.70	0.57
1:A:3315:LEU:O	1:A:3319:ILE:HG12	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3434:LEU:O	1:A:3438:VAL:HG12	2.03	0.57
1:A:3510:ILE:O	1:A:3514:LEU:HG	2.03	0.57
1:A:3943:ILE:HG22	1:A:3948:LYS:HG2	1.85	0.57
1:B:913:LEU:HD23	1:B:918:ARG:HG2	1.84	0.57
1:B:1443:GLN:OE1	1:B:1557:THR:N	2.38	0.57
1:B:2230:THR:OG1	1:B:2268[B]:GLN:NE2	2.38	0.57
1:B:2518:LEU:HD22	1:B:2565:CYS:HB3	1.84	0.57
1:B:3145:GLN:O	1:B:3149:GLN:HG3	2.04	0.57
1:D:3100:SER:HA	1:D:3103:ILE:HD12	1.85	0.57
1:D:3373:VAL:O	1:D:3377:GLU:HG2	2.04	0.57
1:D:3510:ILE:O	1:D:3514:LEU:HG	2.04	0.57
1:D:4068:LEU:O	1:D:4072:VAL:HG22	2.04	0.57
1:D:4711:PHE:O	1:D:4713:SER:N	2.37	0.57
1:D:5006:GLN:H	1:D:5006:GLN:CD	2.12	0.57
1:C:916:PRO:HA	1:C:919:ASN:HD22	1.68	0.57
1:C:1011:GLN:OE1	1:C:1011:GLN:N	2.37	0.57
1:C:1873:GLU:N	1:C:1873:GLU:OE1	2.37	0.57
1:C:2627:VAL:HG13	1:C:2678:LEU:HD21	1.84	0.57
1:C:2973:PHE:CD1	1:C:2995:ILE:HG12	2.40	0.57
1:C:3811:GLU:HG2	1:C:3815:LYS:HE2	1.86	0.57
1:A:15:ARG:HA	1:A:100:THR:HA	1.84	0.57
1:A:670:GLU:HA	1:A:740:PRO:HG3	1.86	0.57
1:A:1443:GLN:OE1	1:A:1557:THR:N	2.38	0.57
1:A:1772:ARG:NH2	1:A:1952:GLN:OE1	2.37	0.57
1:A:2626:LEU:HD13	1:A:2644:LEU:HD21	1.85	0.57
1:A:2967:MET:HE3	1:A:3042:LEU:HD22	1.85	0.57
1:A:2973:PHE:CD1	1:A:2995:ILE:HG12	2.40	0.57
1:B:2095:GLN:H	1:B:2095:GLN:CD	2.13	0.57
1:B:2138:LEU:HD22	1:B:3658:LYS:HE2	1.86	0.57
1:B:2517:PHE:O	1:B:2520:HIS:ND1	2.33	0.57
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.84	0.57
1:D:1430:THR:HG23	1:D:1573:MET:SD	2.44	0.57
1:D:1443:GLN:OE1	1:D:1557:THR:N	2.38	0.57
1:D:2626:LEU:HD13	1:D:2644:LEU:HD21	1.85	0.57
1:D:3777:GLU:OE1	1:D:3777:GLU:N	2.35	0.57
1:D:4001:MET:O	1:D:4005:GLN:NE2	2.34	0.57
1:C:215:THR:HG22	1:C:273:HIS:HA	1.86	0.57
1:C:781:VAL:HG11	1:C:789:VAL:HG21	1.86	0.57
1:C:1424:PRO:HA	1:C:1427:ILE:HG22	1.86	0.57
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.04	0.57
1:A:215:THR:HG22	1:A:273:HIS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:GLU:OE2	1:A:439:GLU:N	2.25	0.57
1:A:2640:PRO:HA	1:A:2643:LEU:HG	1.85	0.57
1:A:3522:LEU:HD22	1:B:1220:GLN:CD	2.30	0.57
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.05	0.57
1:A:5029:ARG:O	1:A:5033:GLU:N	2.38	0.57
2:F:3:GLN:OE1	2:F:3:GLN:N	2.37	0.57
1:B:213:TYR:N	1:B:341:TYR:H	2.02	0.57
1:B:1430:THR:HG23	1:B:1573:MET:SD	2.44	0.57
1:B:3100:SER:HA	1:B:3103:ILE:HD12	1.85	0.57
1:B:5029:ARG:O	1:B:5033:GLU:N	2.38	0.57
1:D:115:ARG:HD2	1:D:395:GLN:HE22	1.68	0.57
1:D:2598:ALA:O	1:D:2602:VAL:HG23	2.05	0.57
1:D:2693:GLN:O	1:D:2693:GLN:NE2	2.37	0.57
1:C:439:GLU:OE2	1:C:439:GLU:N	2.25	0.57
1:C:2244:ARG:HH12	1:C:3861:GLU:H	1.51	0.57
1:C:2479:LEU:HA	1:C:2485:LEU:HA	1.87	0.57
1:C:2669:GLU:HA	1:C:2672:LEU:HB2	1.85	0.57
1:C:4036:VAL:HG12	1:C:4153:HIS:HA	1.85	0.57
1:A:259:LEU:HD11	1:A:393:CYS:HB2	1.86	0.57
1:A:490:CYS:O	1:A:494:LEU:HD12	2.05	0.57
1:A:2516:ASP:OD1	1:A:2516:ASP:N	2.35	0.57
1:A:2741:GLU:HG2	1:A:2743:LEU:HD23	1.85	0.57
1:A:3106:MET:SD	1:A:3106:MET:N	2.78	0.57
1:A:3373:VAL:O	1:A:3377:GLU:HG2	2.04	0.57
1:A:3611:HIS:ND1	1:A:3611:HIS:O	2.38	0.57
1:A:4952:GLU:O	1:A:4956:THR:OG1	2.19	0.57
1:B:221:ARG:HH21	1:B:259:LEU:HB2	1.68	0.57
1:B:379:HIS:HB3	1:B:382:GLY:HA2	1.86	0.57
1:B:771:PHE:HB3	1:B:1472:VAL:HG23	1.85	0.57
1:B:971:ASP:OD2	1:B:974:HIS:ND1	2.33	0.57
1:B:1806:ALA:O	1:B:1810:LYS:HG2	2.04	0.57
1:B:4952:GLU:O	1:B:4956:THR:OG1	2.19	0.57
1:D:54:ASN:O	1:D:56:GLN:N	2.38	0.57
1:D:221:ARG:HH21	1:D:259:LEU:HB2	1.69	0.57
1:D:681:HIS:CE1	1:D:683:ARG:HB2	2.39	0.57
1:C:54:ASN:O	1:C:56:GLN:N	2.38	0.57
1:C:771:PHE:HB3	1:C:1472:VAL:HG23	1.85	0.57
1:C:2693:GLN:NE2	1:C:2693:GLN:O	2.37	0.57
1:C:3145:GLN:O	1:C:3149:GLN:HG3	2.04	0.57
1:C:3327:LEU:HB2	1:C:3364:ARG:HH21	1.69	0.57
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2138:LEU:HD22	1:A:3658:LYS:HE2	1.86	0.57
1:A:3100:SER:HA	1:A:3103:ILE:HD12	1.85	0.57
1:A:3142:THR:HA	1:A:3145:GLN:OE1	2.05	0.57
1:A:3273:THR:HA	1:A:3276:MET:SD	2.44	0.57
1:A:3575:LEU:HD21	1:B:1208:VAL:CG2	2.28	0.57
1:A:3788:GLY:HA2	1:A:3835:LEU:HG	1.86	0.57
1:A:4068:LEU:O	1:A:4072:VAL:HG22	2.04	0.57
1:A:4711:PHE:O	1:A:4713:SER:N	2.37	0.57
2:G:5:GLU:HB3	2:G:73:LYS:HE3	1.85	0.57
1:B:495:ASN:O	1:B:553:ARG:NH2	2.38	0.57
1:B:2693:GLN:NE2	1:B:2693:GLN:O	2.37	0.57
1:D:44:ASN:ND2	1:D:46:LEU:O	2.38	0.57
1:D:497:TYR:O	1:D:553:ARG:NH2	2.33	0.57
1:D:980:ALA:O	1:D:984:LEU:HG	2.04	0.57
1:D:2244:ARG:HH12	1:D:3861:GLU:H	1.51	0.57
1:D:3142:THR:HA	1:D:3145:GLN:OE1	2.05	0.57
1:D:3322:ILE:HG13	1:D:3326:ASN:ND2	2.20	0.57
1:D:3951:PHE:O	1:D:3955:MET:HG2	2.04	0.57
1:D:3969:ILE:HD11	1:D:3977:GLN:HG2	1.86	0.57
1:D:5032:TYR:HB3	1:D:5036:LEU:HG	1.86	0.57
1:C:3350:ARG:O	1:C:3415:TYR:OH	2.23	0.57
1:C:3373:VAL:O	1:C:3377:GLU:HG2	2.04	0.57
1:C:3711:THR:O	1:C:3713:LYS:NZ	2.34	0.57
1:C:4976:GLU:O	1:C:4980:LEU:HG	2.05	0.57
1:A:44:ASN:ND2	1:A:46:LEU:O	2.38	0.57
1:A:111:HIS:NE2	1:A:113:HIS:HB3	2.20	0.57
1:A:1011:GLN:OE1	1:A:1011:GLN:N	2.37	0.57
1:A:1806:ALA:O	1:A:1810:LYS:HG2	2.04	0.57
1:A:3140:LEU:HA	1:A:3143:LEU:HD12	1.86	0.57
1:A:3768:SER:HA	1:A:3771:HIS:NE2	2.20	0.57
2:E:28:GLY:N	2:E:37:ASP:O	2.38	0.57
2:G:3:GLN:OE1	2:G:3:GLN:N	2.38	0.57
1:B:54:ASN:O	1:B:56:GLN:N	2.38	0.57
1:B:681:HIS:CE1	1:B:683:ARG:HB2	2.39	0.57
1:B:1772:ARG:NH2	1:B:1952:GLN:OE1	2.37	0.57
1:B:3106:MET:N	1:B:3106:MET:SD	2.78	0.57
1:D:1011:GLN:OE1	1:D:1011:GLN:N	2.37	0.57
1:D:3106:MET:N	1:D:3106:MET:SD	2.78	0.57
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.05	0.57
1:C:221:ARG:HH21	1:C:259:LEU:HB2	1.69	0.57
1:C:495:ASN:O	1:C:553:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2598:ALA:O	1:C:2602:VAL:HG23	2.05	0.57
1:C:2755:ILE:HD13	1:C:2810:LYS:HA	1.86	0.57
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.04	0.57
1:A:221:ARG:HH21	1:A:259:LEU:HB2	1.69	0.57
1:A:873:LYS:HD3	1:A:874:LEU:HD23	1.85	0.57
1:A:1220:GLN:CD	1:D:3522:LEU:HD22	2.29	0.57
1:A:1229:ASN:H	1:A:1827:ARG:NH2	2.02	0.57
1:A:3322:ILE:HG13	1:A:3326:ASN:ND2	2.20	0.57
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.04	0.57
1:A:4036:VAL:HG12	1:A:4153:HIS:HA	1.86	0.57
2:G:105:LYS:NZ	2:G:106:LEU:O	2.37	0.57
1:B:44:ASN:ND2	1:B:46:LEU:O	2.38	0.57
1:B:490:CYS:O	1:B:494:LEU:HD12	2.05	0.57
1:B:1424:PRO:HA	1:B:1427:ILE:HG22	1.86	0.57
1:B:3180:ASN:H	1:B:3183:VAL:HB	1.70	0.57
1:B:3367:LYS:O	1:B:3371:LYS:HG3	2.05	0.57
1:B:3811:GLU:HG2	1:B:3815:LYS:HE2	1.86	0.57
1:D:490:CYS:O	1:D:494:LEU:HD12	2.05	0.57
1:D:873:LYS:HD3	1:D:874:LEU:HD23	1.85	0.57
1:D:1508:ARG:HH11	1:D:1508:ARG:HA	1.70	0.57
1:D:3014:CYS:SG	1:D:3074:SER:OG	2.59	0.57
1:D:3315:LEU:O	1:D:3319:ILE:HG12	2.03	0.57
1:D:3788:GLY:HA2	1:D:3835:LEU:HG	1.86	0.57
1:C:115:ARG:HH11	1:C:395:GLN:HE22	1.53	0.57
1:C:670:GLU:HA	1:C:740:PRO:HG3	1.86	0.57
1:A:115:ARG:HD2	1:A:395:GLN:HE22	1.68	0.57
1:A:639:ASN:ND2	1:A:676:THR:OG1	2.37	0.57
1:A:1762:LEU:HD12	1:A:1763:PRO:HD2	1.86	0.57
1:A:2336:ARG:NH1	1:A:2431:ASP:OD2	2.38	0.57
1:A:3367:LYS:O	1:A:3371:LYS:HG3	2.05	0.57
1:A:3796:SER:HA	1:A:3799:LYS:HE3	1.86	0.57
1:A:4584:ASP:HA	1:A:4628:VAL:HA	1.86	0.57
2:G:40:ARG:NH1	1:C:674:PHE:HE2	2.01	0.57
1:B:3322:ILE:HG13	1:B:3326:ASN:ND2	2.20	0.57
1:B:3373:VAL:O	1:B:3377:GLU:HG2	2.04	0.57
1:D:115:ARG:HH11	1:D:395:GLN:HE22	1.53	0.57
1:D:394:GLN:HE22	1:D:396:GLU:H	1.51	0.57
1:D:2577:ILE:HD12	1:D:2578:MET:N	2.20	0.57
1:D:3346:VAL:HG21	1:D:3411:LEU:HB2	1.86	0.57
1:D:3943:ILE:HG22	1:D:3948:LYS:HG2	1.85	0.57
1:D:4036:VAL:HG12	1:D:4153:HIS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4976:GLU:O	1:D:4980:LEU:HG	2.05	0.57
1:C:985:VAL:HB	1:C:1043:VAL:HG21	1.85	0.57
1:C:1229:ASN:H	1:C:1827:ARG:NH2	2.02	0.57
1:C:2559:LEU:O	1:C:2563:THR:HG23	2.05	0.57
1:C:4240:ASP:OD1	1:C:4675:LYS:NZ	2.35	0.57
1:C:4689:THR:OG1	1:C:4690:GLU:OE1	2.16	0.57
1:A:54:ASN:O	1:A:56:GLN:N	2.38	0.57
1:A:213:TYR:CD1	1:A:337:PRO:HB2	2.40	0.57
1:A:2577:ILE:HD12	1:A:2578:MET:N	2.20	0.57
1:A:4929:LEU:HD23	1:A:4932:ILE:HD11	1.87	0.57
1:A:5032:TYR:HB3	1:A:5036:LEU:HG	1.86	0.57
1:B:259:LEU:HD11	1:B:393:CYS:HB2	1.86	0.57
1:B:1873:GLU:OE1	1:B:1873:GLU:N	2.37	0.57
1:B:2336:ARG:NH1	1:B:2431:ASP:OD2	2.38	0.57
1:B:2479:LEU:HA	1:B:2485:LEU:HA	1.86	0.57
1:B:2973:PHE:CD1	1:B:2995:ILE:HG12	2.39	0.57
1:D:213:TYR:CD1	1:D:337:PRO:HB2	2.40	0.57
1:D:1869:GLU:N	1:D:1869:GLU:OE2	2.38	0.57
1:D:2091:PRO:HB3	1:D:2096:GLU:HB3	1.86	0.57
1:D:2798:SER:OG	1:D:2801:ASP:OD2	2.18	0.57
1:D:4584:ASP:HA	1:D:4628:VAL:HA	1.86	0.57
1:C:259:LEU:HD11	1:C:393:CYS:HB2	1.86	0.57
1:C:681:HIS:CE1	1:C:683:ARG:HB2	2.39	0.57
1:C:873:LYS:HD3	1:C:874:LEU:HD23	1.85	0.57
1:C:1046:LEU:HA	1:C:1049:TYR:CD2	2.39	0.57
1:C:1430:THR:HG23	1:C:1573:MET:SD	2.44	0.57
1:C:1508:ARG:HA	1:C:1508:ARG:HH11	1.70	0.57
1:C:1575:LEU:O	1:C:1579:MET:HG3	2.04	0.57
1:C:2138:LEU:HD22	1:C:3658:LYS:HE2	1.86	0.57
1:C:3142:THR:HA	1:C:3145:GLN:OE1	2.05	0.57
1:A:115:ARG:HH11	1:A:395:GLN:HE22	1.53	0.56
1:A:1430:THR:HG23	1:A:1573:MET:SD	2.44	0.56
1:A:2044:ILE:HG23	1:A:3667:HIS:HD2	1.68	0.56
1:A:4869:GLU:OE1	1:A:4869:GLU:N	2.29	0.56
1:A:4877:ASP:HA	1:D:4582:VAL:CG2	2.34	0.56
2:H:54:GLU:OE1	2:H:54:GLU:N	2.31	0.56
2:G:20:GLN:OE1	2:G:21:THR:N	2.38	0.56
1:B:2358:ILE:HG13	1:B:2359:ARG:HH21	1.70	0.56
1:B:2595:LEU:O	1:B:2600:ARG:NH2	2.37	0.56
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.05	0.56
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4929:LEU:HD23	1:B:4932:ILE:HD11	1.87	0.56
1:D:213:TYR:N	1:D:341:TYR:H	2.02	0.56
1:D:916:PRO:HA	1:D:919:ASN:HD22	1.68	0.56
1:D:1077:ALA:HA	1:D:1236:THR:HG22	1.87	0.56
1:D:2595:LEU:O	1:D:2600:ARG:NH2	2.37	0.56
1:D:3768:SER:HA	1:D:3771:HIS:NE2	2.20	0.56
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.05	0.56
1:C:44:ASN:ND2	1:C:46:LEU:O	2.38	0.56
1:C:3573:MET:O	1:C:3577:ARG:HG2	2.05	0.56
1:C:4711:PHE:O	1:C:4713:SER:N	2.37	0.56
1:A:980:ALA:O	1:A:984:LEU:HG	2.04	0.56
1:A:985:VAL:HG21	1:A:1043:VAL:HG11	1.88	0.56
1:A:1873:GLU:OE1	1:A:1873:GLU:N	2.37	0.56
1:A:2091:PRO:HB3	1:A:2096:GLU:HB3	1.86	0.56
1:A:2449:GLU:O	1:A:2453:ILE:HG12	2.06	0.56
1:A:2693:GLN:O	1:A:2693:GLN:NE2	2.37	0.56
1:A:2755:ILE:HD13	1:A:2810:LYS:HA	1.86	0.56
1:A:3247:ASP:OD1	1:A:3247:ASP:N	2.37	0.56
1:A:3658:LYS:HA	1:A:3662:ILE:HG22	1.85	0.56
1:A:4563:ARG:NH2	1:A:4815:ASP:OD2	2.39	0.56
2:H:37:ASP:HB2	1:D:1782:PHE:HD2	1.70	0.56
1:B:119:SER:O	1:B:136:GLY:N	2.33	0.56
1:B:873:LYS:HD3	1:B:874:LEU:HD23	1.85	0.56
1:B:2044:ILE:HG23	1:B:3667:HIS:HD2	1.69	0.56
1:B:3350:ARG:O	1:B:3415:TYR:OH	2.23	0.56
1:B:4885:PHE:O	1:B:4889:VAL:HG22	2.05	0.56
1:D:1046:LEU:HA	1:D:1049:TYR:CD2	2.39	0.56
1:D:2479:LEU:HA	1:D:2485:LEU:HA	1.87	0.56
1:D:2755:ILE:HD13	1:D:2810:LYS:HA	1.86	0.56
1:D:2973:PHE:CD1	1:D:2995:ILE:HG12	2.39	0.56
1:C:213:TYR:CD1	1:C:337:PRO:HB2	2.40	0.56
1:C:303:ASP:OD2	1:C:305:CYS:N	2.36	0.56
1:C:2095:GLN:CD	1:C:2095:GLN:H	2.13	0.56
1:C:3322:ILE:HG13	1:C:3326:ASN:ND2	2.20	0.56
1:A:840:VAL:HG22	1:A:1199:VAL:HG13	1.88	0.56
1:A:1046:LEU:HA	1:A:1049:TYR:CD2	2.39	0.56
1:A:2244:ARG:HH12	1:A:3861:GLU:H	1.51	0.56
1:A:3346:VAL:HG21	1:A:3411:LEU:HB2	1.86	0.56
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.05	0.56
2:H:7:ILE:CG1	1:D:719:LEU:CD2	2.80	0.56
2:G:40:ARG:CZ	1:C:674:PHE:CZ	2.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:26:TYR:N	2:F:39:SER:OG	2.36	0.56
1:B:215:THR:HG22	1:B:273:HIS:HA	1.86	0.56
1:B:1246:GLU:O	1:B:1599:MET:N	2.31	0.56
1:B:2358:ILE:HB	1:C:195:PHE:CG	2.39	0.56
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.05	0.56
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.05	0.56
1:B:3430:ASN:O	1:B:3434:LEU:HG	2.06	0.56
1:B:5001:THR:OG1	1:B:5002:GLU:OE2	2.24	0.56
1:D:128:THR:O	1:D:130:LYS:NZ	2.38	0.56
1:D:495:ASN:O	1:D:553:ARG:NH2	2.38	0.56
1:D:985:VAL:HB	1:D:1043:VAL:HG21	1.85	0.56
1:D:1229:ASN:H	1:D:1827:ARG:NH2	2.02	0.56
1:D:2293:GLN:HA	1:D:2296:GLU:HG2	1.87	0.56
1:D:2449:GLU:O	1:D:2453:ILE:HG12	2.06	0.56
1:D:3180:ASN:H	1:D:3183:VAL:HB	1.69	0.56
1:D:3811:GLU:HG2	1:D:3815:LYS:HE2	1.86	0.56
1:D:5029:ARG:O	1:D:5033:GLU:N	2.38	0.56
1:C:111:HIS:NE2	1:C:113:HIS:HB3	2.20	0.56
1:C:213:TYR:N	1:C:341:TYR:H	2.02	0.56
1:C:234:SER:O	1:C:242:ARG:NE	2.34	0.56
1:C:1869:GLU:N	1:C:1869:GLU:OE2	2.38	0.56
1:C:2027:ILE:HA	1:C:2030:ASP:OD1	2.04	0.56
1:C:3106:MET:N	1:C:3106:MET:SD	2.78	0.56
1:C:4929:LEU:HD23	1:C:4932:ILE:HD11	1.87	0.56
1:C:5001:THR:OG1	1:C:5002:GLU:OE2	2.24	0.56
1:C:5029:ARG:O	1:C:5033:GLU:N	2.38	0.56
1:A:128:THR:O	1:A:130:LYS:NZ	2.38	0.56
1:A:379:HIS:HB3	1:A:382:GLY:HA2	1.86	0.56
1:A:394:GLN:HE22	1:A:396:GLU:H	1.51	0.56
2:F:56:ILE:HD12	2:F:56:ILE:H	1.70	0.56
2:F:87:HIS:CE1	2:F:90:ILE:HD13	2.40	0.56
1:B:115:ARG:HH11	1:B:395:GLN:HE22	1.53	0.56
1:B:1077:ALA:HA	1:B:1236:THR:HG22	1.87	0.56
1:B:1508:ARG:HH11	1:B:1508:ARG:HA	1.70	0.56
1:B:1762:LEU:HD12	1:B:1763:PRO:HD2	1.86	0.56
1:B:2244:ARG:HH12	1:B:3861:GLU:H	1.51	0.56
1:B:2755:ILE:HD13	1:B:2810:LYS:HA	1.86	0.56
1:B:3346:VAL:HG21	1:B:3411:LEU:HB2	1.86	0.56
1:B:4711:PHE:O	1:B:4713:SER:N	2.37	0.56
1:D:1171:SER:OG	1:D:1175:SER:O	2.24	0.56
1:D:1424:PRO:HA	1:D:1427:ILE:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1805:GLU:H	1:C:1805:GLU:CD	2.14	0.56
1:C:2336:ARG:NH1	1:C:2431:ASP:OD2	2.38	0.56
1:C:3969:ILE:HD11	1:C:3977:GLN:HG2	1.86	0.56
1:C:4563:ARG:NH2	1:C:4815:ASP:OD2	2.39	0.56
1:A:2293:GLN:HA	1:A:2296:GLU:HG2	1.87	0.56
1:A:3573:MET:O	1:A:3577:ARG:HG2	2.06	0.56
1:B:128:THR:O	1:B:130:LYS:NZ	2.38	0.56
1:B:188:GLU:OE1	1:B:190:GLN:NE2	2.39	0.56
1:B:2027:ILE:HA	1:B:2030:ASP:OD1	2.04	0.56
1:B:2199:ARG:NE	1:B:2246:ASN:OD1	2.39	0.56
1:B:3327:LEU:HB2	1:B:3364:ARG:HH21	1.69	0.56
1:B:4563:ARG:NH2	1:B:4815:ASP:OD2	2.39	0.56
1:D:379:HIS:HB3	1:D:382:GLY:HA2	1.86	0.56
1:D:439:GLU:OE2	1:D:439:GLU:N	2.25	0.56
1:D:915:GLU:OE1	1:D:915:GLU:N	2.36	0.56
1:D:985:VAL:HG21	1:D:1043:VAL:HG11	1.87	0.56
1:D:1762:LEU:HD12	1:D:1763:PRO:HD2	1.86	0.56
1:D:1772:ARG:NH2	1:D:1952:GLN:OE1	2.37	0.56
1:D:2095:GLN:CD	1:D:2095:GLN:H	2.13	0.56
1:D:2559:LEU:O	1:D:2563:THR:HG23	2.05	0.56
1:C:394:GLN:OE1	1:C:397:GLU:N	2.32	0.56
1:C:817:PRO:O	1:C:820:ARG:NH2	2.31	0.56
1:C:980:ALA:O	1:C:984:LEU:HG	2.04	0.56
1:C:985:VAL:HG21	1:C:1043:VAL:HG11	1.88	0.56
1:C:1077:ALA:HA	1:C:1236:THR:HG22	1.87	0.56
1:C:1762:LEU:HD12	1:C:1763:PRO:HD2	1.86	0.56
1:C:1805:GLU:OE1	1:C:1805:GLU:N	2.31	0.56
1:C:4885:PHE:O	1:C:4889:VAL:HG22	2.05	0.56
1:A:264:PRO:HA	1:A:280:LEU:HD23	1.88	0.56
1:A:495:ASN:O	1:A:553:ARG:NH2	2.38	0.56
1:A:915:GLU:OE1	1:A:915:GLU:N	2.36	0.56
1:A:1424:PRO:HA	1:A:1427:ILE:HG22	1.86	0.56
1:A:2490:MET:HE2	1:A:2546:MET:SD	2.46	0.56
1:A:2598:ALA:O	1:A:2602:VAL:HG23	2.05	0.56
1:A:3430:ASN:O	1:A:3434:LEU:HG	2.05	0.56
2:G:40:ARG:HD3	1:C:674:PHE:CD2	2.41	0.56
1:B:111:HIS:NE2	1:B:113:HIS:HB3	2.20	0.56
1:B:1252:HIS:HE1	1:B:1255:TYR:HD2	1.54	0.56
1:B:2314:LEU:HD11	1:B:2320:ASP:HB2	1.88	0.56
1:B:2481:LYS:NZ	1:B:2484:ALA:O	2.39	0.56
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3788:GLY:N	1:B:3831:SER:OG	2.39	0.56
1:B:4976:GLU:O	1:B:4980:LEU:HG	2.05	0.56
1:D:111:HIS:NE2	1:D:113:HIS:HB3	2.20	0.56
1:D:259:LEU:HD11	1:D:393:CYS:HB2	1.86	0.56
1:D:639:ASN:ND2	1:D:676:THR:OG1	2.37	0.56
1:D:840:VAL:HG22	1:D:1199:VAL:HG13	1.88	0.56
1:D:3350:ARG:O	1:D:3415:TYR:OH	2.23	0.56
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.04	0.56
1:D:3788:GLY:N	1:D:3831:SER:OG	2.39	0.56
1:D:4929:LEU:HD23	1:D:4932:ILE:HD11	1.87	0.56
1:C:3180:ASN:H	1:C:3183:VAL:HB	1.69	0.56
1:C:3346:VAL:HG21	1:C:3411:LEU:HB2	1.86	0.56
1:C:3367:LYS:O	1:C:3371:LYS:HG3	2.05	0.56
1:C:4963:ILE:HD13	1:C:5030:LYS:HZ1	1.71	0.56
1:A:1077:ALA:HA	1:A:1236:THR:HG22	1.87	0.56
1:A:1575:LEU:O	1:A:1579:MET:HG3	2.04	0.56
1:A:2424:SER:HA	1:A:2498:HIS:NE2	2.21	0.56
2:E:42:ARG:HB3	2:E:44:LYS:NZ	2.20	0.56
1:B:213:TYR:CD1	1:B:337:PRO:HB2	2.40	0.56
1:B:840:VAL:HG22	1:B:1199:VAL:HG13	1.88	0.56
1:B:3103:ILE:HD13	1:B:3168:THR:HG23	1.87	0.56
1:D:181:HIS:HA	1:D:198:THR:HB	1.87	0.56
1:D:188:GLU:OE1	1:D:190:GLN:NE2	2.39	0.56
1:D:264:PRO:HA	1:D:280:LEU:HD23	1.88	0.56
1:D:1979:LEU:O	1:D:1983:ALA:N	2.34	0.56
1:D:2336:ARG:NH1	1:D:2431:ASP:OD2	2.38	0.56
1:D:2481:LYS:NZ	1:D:2484:ALA:O	2.39	0.56
1:D:2520:HIS:CE1	1:D:2521:VAL:HG23	2.41	0.56
1:D:3403:ARG:NH2	1:D:3404:ASP:OD1	2.39	0.56
1:D:5001:THR:OG1	1:D:5002:GLU:OE2	2.24	0.56
1:C:1753:LYS:HE3	1:C:1758:ARG:HA	1.88	0.56
1:C:2230:THR:OG1	1:C:2268[B]:GLN:NE2	2.38	0.56
1:C:2559:LEU:HD21	1:C:2603:ILE:HG23	1.88	0.56
1:A:262:LEU:HD11	1:A:280:LEU:HB3	1.88	0.56
1:A:1508:ARG:HH11	1:A:1508:ARG:HA	1.70	0.56
1:A:1869:GLU:N	1:A:1869:GLU:OE2	2.38	0.56
1:A:2299:VAL:HG11	1:A:2356:LEU:HB3	1.88	0.56
1:A:2479:LEU:HA	1:A:2485:LEU:HA	1.87	0.56
1:A:2559:LEU:O	1:A:2563:THR:HG23	2.05	0.56
1:A:2981:VAL:HG22	1:A:2985:ARG:HH22	1.71	0.56
1:A:3432:GLU:HB3	1:A:3436:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:54:GLU:O	1:D:1785:ALA:N	2.30	0.56
2:F:42:ARG:NH2	1:B:1691:GLN:OE1	2.38	0.56
1:B:2490:MET:HE2	1:B:2546:MET:SD	2.46	0.56
1:B:3187:ARG:NH2	1:B:3263:TYR:OH	2.38	0.56
1:B:3432:GLU:HB3	1:B:3436:ARG:HH12	1.70	0.56
1:B:3768:SER:HA	1:B:3771:HIS:NE2	2.20	0.56
1:B:3777:GLU:N	1:B:3777:GLU:OE1	2.35	0.56
1:B:3888:LEU:HA	1:B:3891:LEU:HD12	1.87	0.56
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.36	0.56
1:D:2299:VAL:HG11	1:D:2356:LEU:HB3	1.88	0.56
1:D:2490:MET:HE2	1:D:2546:MET:SD	2.46	0.56
1:D:2580:ASP:OD2	1:D:2621:HIS:HB2	2.06	0.56
1:D:2825:LYS:NZ	1:D:2930:LEU:O	2.39	0.56
1:D:3860:ASN:HB3	1:D:3865:VAL:HB	1.88	0.56
1:C:128:THR:O	1:C:130:LYS:NZ	2.38	0.56
1:C:2317:GLY:HA3	1:C:2395:PRO:HB3	1.88	0.56
1:C:3140:LEU:HA	1:C:3143:LEU:HD12	1.86	0.56
1:A:290:TYR:N	1:A:302:VAL:O	2.39	0.56
1:B:181:HIS:HA	1:B:198:THR:HB	1.87	0.56
1:B:670:GLU:HA	1:B:740:PRO:HG3	1.86	0.56
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.06	0.56
1:B:2520:HIS:CE1	1:B:2521:VAL:HG23	2.41	0.56
1:B:3142:THR:HA	1:B:3145:GLN:OE1	2.05	0.56
1:B:3324:VAL:HA	1:B:3327:LEU:HG	1.88	0.56
1:D:1805:GLU:H	1:D:1805:GLU:CD	2.14	0.56
1:D:2559:LEU:HD21	1:D:2603:ILE:HG23	1.88	0.56
1:D:3367:LYS:O	1:D:3371:LYS:HG3	2.05	0.56
1:D:3573:MET:O	1:D:3577:ARG:HG2	2.06	0.56
1:D:4885:PHE:O	1:D:4889:VAL:HG22	2.05	0.56
1:C:262:LEU:HD11	1:C:280:LEU:HB3	1.88	0.56
1:C:2293:GLN:HA	1:C:2296:GLU:HG2	1.87	0.56
1:C:3180:ASN:O	1:C:3184:GLU:HG2	2.06	0.56
1:C:3324:VAL:HA	1:C:3327:LEU:HG	1.88	0.56
1:A:317:ARG:HH12	1:A:322:LYS:HG2	1.71	0.56
1:A:2481:LYS:NZ	1:A:2484:ALA:O	2.39	0.56
1:A:4037:ASN:O	1:A:4042:ARG:NH2	2.39	0.56
1:A:4875:LYS:O	1:A:4881:THR:HB	2.06	0.56
1:B:2212:VAL:HG11	1:B:2256:TYR:HE2	1.71	0.56
1:B:2293:GLN:HA	1:B:2296:GLU:HG2	1.87	0.56
1:B:2538:THR:O	1:B:2542:SER:OG	2.23	0.56
1:B:2766:TRP:HE3	1:B:2790:MET:HE3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2956:ALA:O	1:B:2960:LEU:HG	2.06	0.56
1:B:3140:LEU:HA	1:B:3143:LEU:HD12	1.86	0.56
1:B:3611:HIS:ND1	1:B:3611:HIS:O	2.38	0.56
1:D:2230:THR:OG1	1:D:2268[B]:GLN:NE2	2.38	0.56
1:D:2317:GLY:HA3	1:D:2395:PRO:HB3	1.88	0.56
1:D:3333:THR:O	1:D:3336:LYS:HG2	2.06	0.56
1:D:3432:GLU:HB3	1:D:3436:ARG:NH1	2.21	0.56
1:C:188:GLU:OE1	1:C:190:GLN:NE2	2.39	0.56
1:C:490:CYS:O	1:C:494:LEU:HD12	2.05	0.56
1:C:2766:TRP:HE3	1:C:2790:MET:HE3	1.71	0.56
1:A:1147:ASP:HB3	1:A:1164:LEU:HD11	1.88	0.55
1:A:3350:ARG:O	1:A:3415:TYR:OH	2.23	0.55
1:A:5001:THR:OG1	1:A:5002:GLU:OE2	2.24	0.55
1:B:261:ARG:NH2	1:B:262:LEU:O	2.28	0.55
1:B:264:PRO:HA	1:B:280:LEU:HD23	1.88	0.55
1:B:639:ASN:ND2	1:B:676:THR:OG1	2.37	0.55
1:B:3146:HIS:CD2	1:B:3147:ILE:HD12	2.37	0.55
1:B:3180:ASN:O	1:B:3184:GLU:HG2	2.06	0.55
1:B:3432:GLU:HB3	1:B:3436:ARG:NH1	2.21	0.55
1:B:3946:GLN:OE1	1:B:3946:GLN:HA	2.06	0.55
1:B:4006:ASP:OD1	1:B:4007:SER:N	2.40	0.55
1:D:2199:ARG:NE	1:D:2246:ASN:OD1	2.39	0.55
1:D:2424:SER:HA	1:D:2498:HIS:NE2	2.21	0.55
1:D:3430:ASN:O	1:D:3434:LEU:HG	2.06	0.55
1:D:3755:GLU:O	1:D:3758:MET:HE3	2.06	0.55
1:D:4006:ASP:OD1	1:D:4007:SER:N	2.40	0.55
1:D:4563:ARG:NH2	1:D:4815:ASP:OD2	2.39	0.55
1:C:181:HIS:HA	1:C:198:THR:HB	1.87	0.55
1:C:1443:GLN:OE1	1:C:1557:THR:N	2.38	0.55
1:C:2314:LEU:HD11	1:C:2320:ASP:HB2	1.88	0.55
1:C:2490:MET:HE2	1:C:2546:MET:SD	2.46	0.55
1:C:3150:HIS:HB3	1:C:3152:PHE:CE1	2.42	0.55
1:C:3430:ASN:O	1:C:3434:LEU:HG	2.05	0.55
1:C:4875:LYS:O	1:C:4881:THR:HB	2.06	0.55
1:C:5006:GLN:H	1:C:5006:GLN:CD	2.12	0.55
1:A:2199:ARG:NE	1:A:2246:ASN:OD1	2.39	0.55
1:A:2225:PHE:CB	1:A:2228:MET:HE2	2.36	0.55
1:A:2358:ILE:HG13	1:A:2359:ARG:HH21	1.70	0.55
1:A:2580:ASP:OD2	1:A:2621:HIS:HB2	2.06	0.55
1:A:3333:THR:O	1:A:3336:LYS:HG2	2.06	0.55
1:A:3433:GLU:OE2	1:A:3436:ARG:NE	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3755:GLU:O	1:A:3758:MET:HE3	2.06	0.55
1:A:4006:ASP:OD1	1:A:4007:SER:N	2.40	0.55
1:B:1869:GLU:N	1:B:1869:GLU:OE2	2.38	0.55
1:B:1947:CYS:HB2	1:B:2126:ARG:HH12	1.71	0.55
1:B:1979:LEU:O	1:B:1983:ALA:N	2.34	0.55
1:B:2424:SER:HA	1:B:2498:HIS:NE2	2.21	0.55
1:B:3403:ARG:NH2	1:B:3404:ASP:OD1	2.39	0.55
1:D:2956:ALA:O	1:D:2960:LEU:HG	2.06	0.55
1:D:3432:GLU:HB3	1:D:3436:ARG:HH12	1.70	0.55
1:C:1124:PHE:HB3	1:C:1162:PHE:CE2	2.41	0.55
1:C:2299:VAL:HG11	1:C:2356:LEU:HB3	1.88	0.55
1:C:2449:GLU:O	1:C:2453:ILE:HG12	2.06	0.55
1:C:3103:ILE:HD13	1:C:3168:THR:HG23	1.87	0.55
1:C:3146:HIS:CD2	1:C:3147:ILE:HD12	2.37	0.55
1:C:3432:GLU:HB3	1:C:3436:ARG:HH12	1.70	0.55
1:C:3755:GLU:O	1:C:3758:MET:HE3	2.06	0.55
1:C:3888:LEU:HA	1:C:3891:LEU:HD12	1.87	0.55
1:A:139:GLU:OE1	1:A:139:GLU:N	2.40	0.55
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.07	0.55
1:A:2766:TRP:HE3	1:A:2790:MET:HE3	1.71	0.55
1:A:3432:GLU:HB3	1:A:3436:ARG:HH12	1.70	0.55
1:A:3860:ASN:HB3	1:A:3865:VAL:HB	1.88	0.55
1:B:985:VAL:HG21	1:B:1043:VAL:HG11	1.88	0.55
1:B:1147:ASP:HB3	1:B:1164:LEU:HD11	1.88	0.55
1:B:2186:MET:N	1:B:2186:MET:SD	2.79	0.55
1:B:2580:ASP:OD2	1:B:2621:HIS:HB2	2.06	0.55
1:D:288:GLY:HA3	1:D:405:HIS:CE1	2.42	0.55
1:D:2225:PHE:CB	1:D:2228:MET:HE2	2.36	0.55
1:D:2358:ILE:HG13	1:D:2359:ARG:HH21	1.70	0.55
1:D:3247:ASP:N	1:D:3247:ASP:OD1	2.37	0.55
1:C:2138:LEU:HD13	1:C:3658:LYS:HB2	1.89	0.55
1:C:2186:MET:N	1:C:2186:MET:SD	2.79	0.55
1:C:2212:VAL:HG11	1:C:2256:TYR:HE2	1.71	0.55
1:C:2580:ASP:OD2	1:C:2621:HIS:HB2	2.06	0.55
1:C:2825:LYS:NZ	1:C:2930:LEU:O	2.39	0.55
1:C:3043:PHE:HA	1:C:3071:LEU:HD13	1.89	0.55
1:A:467:LYS:HZ1	1:A:471:LEU:HB2	1.71	0.55
1:A:1753:LYS:HE3	1:A:1758:ARG:HA	1.88	0.55
1:A:2095:GLN:CD	1:A:2095:GLN:H	2.13	0.55
1:A:2786:LYS:HD2	1:A:2786:LYS:O	2.07	0.55
1:A:2891:LYS:O	1:A:2895:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:960:MET:HE3	1:B:960:MET:H	1.72	0.55
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.07	0.55
1:B:2317:GLY:HA3	1:B:2395:PRO:HB3	1.88	0.55
1:B:2825:LYS:NZ	1:B:2930:LEU:O	2.39	0.55
1:D:262:LEU:HD11	1:D:280:LEU:HB3	1.88	0.55
1:D:1115:LEU:H	1:D:1115:LEU:HD12	1.72	0.55
1:D:1147:ASP:HB3	1:D:1164:LEU:HD11	1.88	0.55
1:D:2538:THR:O	1:D:2542:SER:OG	2.23	0.55
1:D:3043:PHE:HA	1:D:3071:LEU:HD13	1.89	0.55
1:D:3103:ILE:HD13	1:D:3168:THR:HG23	1.87	0.55
1:D:4156:HIS:HA	1:D:4161:ARG:NH2	2.22	0.55
1:D:4634:GLU:CD	1:D:4637:GLY:H	2.15	0.55
1:C:1252:HIS:HE1	1:C:1255:TYR:HD2	1.53	0.55
1:C:2358:ILE:HG13	1:C:2359:ARG:HH21	1.70	0.55
1:C:2956:ALA:O	1:C:2960:LEU:HG	2.06	0.55
1:A:1813:ARG:O	1:A:1817:GLU:HG3	2.07	0.55
1:A:2314:LEU:HD11	1:A:2320:ASP:HB2	1.88	0.55
1:A:2588:ARG:HB2	1:A:2625:ARG:HH22	1.72	0.55
2:H:66:MET:HE2	2:H:66:MET:HA	1.87	0.55
2:G:25:HIS:HB2	2:G:104:LEU:HD21	1.89	0.55
2:G:105:LYS:HZ3	2:G:106:LEU:H	1.54	0.55
1:B:139:GLU:OE1	1:B:139:GLU:N	2.40	0.55
1:B:154:SER:OG	1:B:155:LYS:N	2.34	0.55
1:B:262:LEU:HD11	1:B:280:LEU:HB3	1.88	0.55
1:B:1124:PHE:HB3	1:B:1162:PHE:CE2	2.41	0.55
1:B:2588:ARG:HB2	1:B:2625:ARG:HH22	1.72	0.55
1:B:3043:PHE:HA	1:B:3071:LEU:HD13	1.89	0.55
1:B:3257:ALA:HB1	1:B:3321:ARG:HB3	1.89	0.55
1:D:799:GLU:N	1:D:799:GLU:OE2	2.40	0.55
1:D:1124:PHE:HB3	1:D:1162:PHE:CE2	2.41	0.55
1:D:2766:TRP:HE3	1:D:2790:MET:HE3	1.71	0.55
1:D:2786:LYS:HD2	1:D:2786:LYS:O	2.07	0.55
1:D:4875:LYS:O	1:D:4881:THR:HB	2.06	0.55
1:C:639:ASN:ND2	1:C:676:THR:OG1	2.37	0.55
1:C:840:VAL:HG22	1:C:1199:VAL:HG13	1.88	0.55
1:C:1147:ASP:HB3	1:C:1164:LEU:HD11	1.89	0.55
1:C:1246:GLU:O	1:C:1599:MET:N	2.30	0.55
1:C:1839:VAL:HG13	1:C:1843:LYS:HE3	1.89	0.55
1:A:2956:ALA:O	1:A:2960:LEU:HG	2.06	0.55
1:A:3180:ASN:O	1:A:3184:GLU:HG2	2.06	0.55
1:A:4069:LYS:HD2	1:A:4129:ALA:HB1	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4880:MET:HE2	1:A:4880:MET:H	1.71	0.55
1:B:2138:LEU:HD13	1:B:3658:LYS:HB2	1.89	0.55
1:B:2798:SER:OG	1:B:2801:ASP:OD2	2.18	0.55
1:B:3354:LEU:HA	1:B:3358:PHE:HB2	1.89	0.55
1:B:3755:GLU:O	1:B:3758:MET:HE3	2.06	0.55
1:B:4069:LYS:HD2	1:B:4129:ALA:HB1	1.89	0.55
1:D:290:TYR:N	1:D:302:VAL:O	2.39	0.55
1:D:670:GLU:HA	1:D:740:PRO:HG3	1.86	0.55
1:D:1813:ARG:O	1:D:1817:GLU:HG3	2.07	0.55
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.07	0.55
1:D:2891:LYS:O	1:D:2895:GLU:HG2	2.07	0.55
1:C:264:PRO:HA	1:C:280:LEU:HD23	1.87	0.55
1:C:497:TYR:HA	1:C:502:HIS:CE1	2.42	0.55
1:C:2481:LYS:NZ	1:C:2484:ALA:O	2.39	0.55
1:C:2707:ALA:HB1	1:C:3009:TYR:HD2	1.72	0.55
1:C:3611:HIS:O	1:C:3611:HIS:ND1	2.37	0.55
1:C:3647:HIS:CE1	1:C:3648:ARG:HG3	2.42	0.55
1:A:188:GLU:OE1	1:A:190:GLN:NE2	2.39	0.55
1:A:288:GLY:HA3	1:A:405:HIS:CE1	2.42	0.55
1:A:1252:HIS:HE1	1:A:1255:TYR:HD2	1.53	0.55
1:A:2138:LEU:HD13	1:A:3658:LYS:HB2	1.89	0.55
1:A:2825:LYS:NZ	1:A:2930:LEU:O	2.39	0.55
1:A:3257:ALA:HB1	1:A:3321:ARG:HB3	1.89	0.55
1:A:4156:HIS:HA	1:A:4161:ARG:NH2	2.22	0.55
1:A:4976:GLU:O	1:A:4980:LEU:HG	2.05	0.55
2:H:22:CYS:HA	2:H:106:LEU:HA	1.89	0.55
2:H:88:PRO:CA	1:D:623:GLU:OE1	2.54	0.55
2:G:7:ILE:HB	2:G:71:ARG:HG2	1.88	0.55
1:B:317:ARG:HH12	1:B:322:LYS:HG2	1.71	0.55
1:B:1753:LYS:HE3	1:B:1758:ARG:HA	1.88	0.55
1:B:2107:GLN:HE22	1:B:3680:ALA:HA	1.72	0.55
1:B:2981:VAL:HG22	1:B:2985:ARG:HH22	1.71	0.55
1:B:3333:THR:O	1:B:3336:LYS:HG2	2.06	0.55
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.07	0.55
1:D:2107:GLN:HE22	1:D:3680:ALA:HA	1.72	0.55
1:D:3150:HIS:HB3	1:D:3152:PHE:CE1	2.42	0.55
1:D:4069:LYS:HD2	1:D:4129:ALA:HB1	1.89	0.55
1:C:799:GLU:N	1:C:799:GLU:OE2	2.40	0.55
1:C:1115:LEU:H	1:C:1115:LEU:HD12	1.72	0.55
1:C:2199:ARG:NE	1:C:2246:ASN:OD1	2.39	0.55
1:C:2424:SER:HA	1:C:2498:HIS:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:SER:OG	1:A:1175:SER:O	2.24	0.55
1:A:1938:GLN:HA	1:A:1941:ASN:ND2	2.22	0.55
1:A:1947:CYS:HB2	1:A:2126:ARG:HH12	1.71	0.55
1:A:2186:MET:SD	1:A:2186:MET:N	2.79	0.55
1:A:3043:PHE:HA	1:A:3071:LEU:HD13	1.89	0.55
1:A:4735:GLU:OE1	1:A:4735:GLU:N	2.39	0.55
1:A:4885:PHE:O	1:A:4889:VAL:HG22	2.05	0.55
1:B:799:GLU:N	1:B:799:GLU:OE2	2.40	0.55
1:B:2259:GLU:HB2	1:B:2297:LYS:HZ3	1.71	0.55
1:B:2308:GLN:OE1	1:B:2308:GLN:N	2.40	0.55
1:B:3433:GLU:OE2	1:B:3436:ARG:NE	2.36	0.55
1:B:4875:LYS:O	1:B:4881:THR:HB	2.06	0.55
1:D:2996:LYS:HE3	1:D:3000:LYS:HD3	1.89	0.55
1:D:3450:ASN:HA	1:D:3453:ARG:NE	2.22	0.55
1:D:3888:LEU:HA	1:D:3891:LEU:HD12	1.87	0.55
1:D:4880:MET:HE2	1:D:4880:MET:H	1.72	0.55
1:C:317:ARG:HH12	1:C:322:LYS:HG2	1.71	0.55
1:C:2225:PHE:CB	1:C:2228:MET:HE2	2.36	0.55
1:C:2520:HIS:CE1	1:C:2521:VAL:HG23	2.41	0.55
1:C:2891:LYS:O	1:C:2895:GLU:HG2	2.07	0.55
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	1.88	0.55
1:C:3403:ARG:NH2	1:C:3404:ASP:OD1	2.39	0.55
1:C:3788:GLY:N	1:C:3831:SER:OG	2.39	0.55
1:C:4069:LYS:HD2	1:C:4129:ALA:HB1	1.89	0.55
1:A:303:ASP:OD2	1:A:305:CYS:N	2.36	0.55
1:A:1125:ASN:ND2	1:A:1128:ARG:HD2	2.22	0.55
1:A:1778:SER:HB3	1:A:1798:LEU:HB2	1.89	0.55
1:A:2193:GLN:HG3	1:A:2194:HIS:ND1	2.22	0.55
1:A:3103:ILE:HD13	1:A:3168:THR:HG23	1.87	0.55
1:A:3150:HIS:HB3	1:A:3152:PHE:CE1	2.42	0.55
1:A:3684:GLU:CD	1:A:3684:GLU:H	2.15	0.55
1:A:3888:LEU:HA	1:A:3891:LEU:HD12	1.87	0.55
2:F:59:TRP:CE3	1:B:1783:VAL:HG11	2.42	0.55
1:B:881:LEU:HD12	1:B:1041:GLN:HE21	1.72	0.55
1:B:1778:SER:HB3	1:B:1798:LEU:HB2	1.89	0.55
1:B:2299:VAL:HG11	1:B:2356:LEU:HB3	1.88	0.55
1:B:3150:HIS:HB3	1:B:3152:PHE:CE1	2.42	0.55
1:B:3579:LEU:HD22	1:B:3582:ARG:HG2	1.89	0.55
1:B:4037:ASN:O	1:B:4042:ARG:NH2	2.39	0.55
1:B:4746:ALA:O	1:B:4750:ILE:HG12	2.07	0.55
1:D:989:ALA:HA	1:D:1039:LEU:HD23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1851:MET:HE2	1:D:1851:MET:N	2.22	0.55
1:D:1938:GLN:HA	1:D:1941:ASN:ND2	2.22	0.55
1:D:2308:GLN:OE1	1:D:2308:GLN:N	2.40	0.55
1:D:2314:LEU:HD11	1:D:2320:ASP:HB2	1.88	0.55
1:D:3257:ALA:HB1	1:D:3321:ARG:HB3	1.89	0.55
1:D:3946:GLN:OE1	1:D:3946:GLN:HA	2.06	0.55
1:C:960:MET:H	1:C:960:MET:HE3	1.72	0.55
1:C:1286:MET:HB3	1:C:1462:MET:HE3	1.89	0.55
1:C:1851:MET:HE2	1:C:1851:MET:N	2.22	0.55
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.07	0.55
1:C:3354:LEU:HA	1:C:3358:PHE:HB2	1.89	0.55
1:C:4654:ALA:O	1:C:4658:ILE:HG12	2.07	0.55
1:A:68:THR:O	1:A:110:ARG:N	2.34	0.55
1:A:181:HIS:HA	1:A:198:THR:HB	1.87	0.55
1:A:799:GLU:N	1:A:799:GLU:OE2	2.40	0.55
1:A:1124:PHE:HB3	1:A:1162:PHE:CE2	2.41	0.55
1:A:2107:GLN:HE22	1:A:3680:ALA:HA	1.72	0.55
1:A:2520:HIS:CE1	1:A:2521:VAL:HG23	2.41	0.55
1:A:2559:LEU:HD21	1:A:2603:ILE:HG23	1.87	0.55
1:B:3647:HIS:CE1	1:B:3648:ARG:HG3	2.42	0.55
1:B:3775:ALA:O	1:B:3778:MET:HG2	2.07	0.55
1:D:28:VAL:N	1:D:31:GLU:O	2.31	0.55
1:D:303:ASP:OD2	1:D:305:CYS:N	2.36	0.55
1:D:1855:GLY:O	1:D:1859:VAL:HG23	2.07	0.55
1:D:2138:LEU:HD13	1:D:3658:LYS:HB2	1.89	0.55
1:D:2186:MET:N	1:D:2186:MET:SD	2.79	0.55
1:D:2627:VAL:HG22	1:D:2678:LEU:HD11	1.89	0.55
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.07	0.55
1:D:3324:VAL:HA	1:D:3327:LEU:HG	1.88	0.55
1:D:3895:HIS:HB3	1:D:3971:GLY:HA2	1.89	0.55
1:D:4037:ASN:O	1:D:4042:ARG:NH2	2.39	0.55
1:C:1125:ASN:ND2	1:C:1128:ARG:HD2	2.22	0.55
1:C:1778:SER:HB3	1:C:1798:LEU:HB2	1.89	0.55
1:C:1855:GLY:O	1:C:1859:VAL:HG23	2.07	0.55
1:C:2577:ILE:HD12	1:C:2578:MET:N	2.20	0.55
1:C:2588:ARG:HB2	1:C:2625:ARG:HH22	1.72	0.55
1:C:3247:ASP:OD1	1:C:3247:ASP:N	2.37	0.55
1:C:3257:ALA:HB1	1:C:3321:ARG:HB3	1.89	0.55
1:C:3333:THR:O	1:C:3336:LYS:HG2	2.06	0.55
1:C:3579:LEU:HD22	1:C:3582:ARG:HG2	1.89	0.55
1:C:4634:GLU:CD	1:C:4637:GLY:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1228:ILE:HG22	1:A:1827:ARG:HH12	1.72	0.54
1:A:2578:MET:CE	1:A:2582:MET:HG3	2.37	0.54
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.07	0.54
1:A:3039:ILE:HB	1:A:3075:LEU:HD21	1.89	0.54
1:A:3647:HIS:CE1	1:A:3648:ARG:HG3	2.42	0.54
1:A:4634:GLU:CD	1:A:4637:GLY:H	2.15	0.54
1:B:989:ALA:HA	1:B:1039:LEU:HD23	1.89	0.54
1:B:1115:LEU:H	1:B:1115:LEU:HD12	1.72	0.54
1:B:1228:ILE:HG22	1:B:1827:ARG:HH12	1.72	0.54
1:B:1839:VAL:HG13	1:B:1843:LYS:HE3	1.89	0.54
1:B:2293:GLN:OE1	1:B:2293:GLN:N	2.24	0.54
1:B:2559:LEU:HD21	1:B:2603:ILE:HG23	1.87	0.54
1:B:3039:ILE:HB	1:B:3075:LEU:HD21	1.88	0.54
1:B:3522:LEU:HD22	1:C:1220:GLN:CD	2.32	0.54
1:D:467:LYS:HZ1	1:D:471:LEU:HB2	1.71	0.54
1:D:1753:LYS:HE3	1:D:1758:ARG:HA	1.88	0.54
1:D:2970:SER:HA	1:D:2973:PHE:HE2	1.71	0.54
1:D:2981:VAL:HG22	1:D:2985:ARG:HH22	1.71	0.54
1:D:3039:ILE:HB	1:D:3075:LEU:HD21	1.88	0.54
1:D:3647:HIS:CE1	1:D:3648:ARG:HG3	2.42	0.54
1:D:3684:GLU:CD	1:D:3684:GLU:H	2.15	0.54
1:C:1643:GLU:H	1:C:1643:GLU:CD	2.15	0.54
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.07	0.54
1:C:4963:ILE:HD13	1:C:5030:LYS:NZ	2.23	0.54
1:A:308:HIS:HD2	1:A:311:ALA:H	1.55	0.54
1:A:1115:LEU:HD12	1:A:1115:LEU:H	1.72	0.54
1:A:2005:GLN:HA	1:A:2008:MET:SD	2.47	0.54
1:A:2538:THR:O	1:A:2542:SER:OG	2.23	0.54
1:A:2996:LYS:HE3	1:A:3000:LYS:HD3	1.89	0.54
1:A:3036:LYS:HA	1:A:3039:ILE:HD12	1.89	0.54
1:A:3324:VAL:HA	1:A:3327:LEU:HG	1.88	0.54
1:A:3825:GLU:OE1	1:A:3828:PHE:N	2.41	0.54
2:G:13:ARG:HG3	2:G:14:THR:HG23	1.88	0.54
1:B:1286:MET:HB3	1:B:1462:MET:HE3	1.89	0.54
1:B:2005:GLN:HA	1:B:2008:MET:SD	2.47	0.54
1:B:2435:ARG:O	1:B:2508:ARG:NH2	2.41	0.54
1:B:4026:MET:O	1:B:4026:MET:HE3	2.07	0.54
1:B:4738:ALA:HA	1:B:4743:MET:SD	2.48	0.54
1:D:234:SER:O	1:D:242:ARG:NE	2.34	0.54
1:D:497:TYR:HA	1:D:502:HIS:CE1	2.42	0.54
1:D:1228:ILE:HG22	1:D:1827:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2588:ARG:HB2	1:D:2625:ARG:HH22	1.72	0.54
1:D:4024:VAL:HG11	1:D:4142:ASN:HB3	1.89	0.54
1:D:4951:LYS:O	1:D:4955:GLU:HG2	2.08	0.54
1:C:467:LYS:HZ1	1:C:471:LEU:HB2	1.70	0.54
1:C:881:LEU:HD12	1:C:1041:GLN:HE21	1.72	0.54
1:C:1938:GLN:HA	1:C:1941:ASN:ND2	2.22	0.54
1:C:2435:ARG:O	1:C:2508:ARG:NH2	2.41	0.54
1:C:3432:GLU:HB3	1:C:3436:ARG:NH1	2.21	0.54
1:C:3860:ASN:HB3	1:C:3865:VAL:HB	1.88	0.54
1:C:4727:LYS:HG2	1:C:4728:HIS:CE1	2.43	0.54
1:A:195:PHE:CG	1:D:2358:ILE:HB	2.43	0.54
1:A:497:TYR:HA	1:A:502:HIS:CE1	2.42	0.54
1:A:1025:ARG:HD3	1:A:1025:ARG:H	1.73	0.54
1:A:1855:GLY:O	1:A:1859:VAL:HG23	2.07	0.54
1:A:2627:VAL:HG22	1:A:2678:LEU:HD11	1.89	0.54
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	1.88	0.54
1:A:4204:GLN:HB3	1:A:4245:MET:HG3	1.90	0.54
2:F:34:LYS:NZ	1:B:628:GLY:O	2.40	0.54
1:B:2182:ILE:HA	1:B:2185:ILE:HD12	1.90	0.54
1:B:3450:ASN:HA	1:B:3453:ARG:NE	2.22	0.54
1:B:4727:LYS:HG2	1:B:4728:HIS:CE1	2.43	0.54
1:D:56:GLN:HA	1:D:309:THR:HG21	1.90	0.54
1:D:68:THR:O	1:D:110:ARG:N	2.34	0.54
1:D:394:GLN:OE1	1:D:397:GLU:N	2.32	0.54
1:D:1252:HIS:HE1	1:D:1255:TYR:HD2	1.53	0.54
1:D:3036:LYS:HA	1:D:3039:ILE:HD12	1.89	0.54
1:D:3246:LEU:HA	1:D:3249:LEU:HD12	1.90	0.54
1:D:3579:LEU:HD22	1:D:3582:ARG:HG2	1.89	0.54
1:D:4204:GLN:HB3	1:D:4245:MET:HG3	1.90	0.54
1:D:4727:LYS:HG2	1:D:4728:HIS:CE1	2.43	0.54
1:D:4746:ALA:O	1:D:4750:ILE:HG12	2.07	0.54
1:D:4877:ASP:HA	1:C:4582:VAL:CG2	2.36	0.54
1:C:989:ALA:HA	1:C:1039:LEU:HD23	1.89	0.54
1:C:1690:ASP:OD2	1:C:1693:GLN:N	2.40	0.54
1:C:3698:LEU:O	1:C:3702:VAL:HG23	2.08	0.54
1:C:4006:ASP:OD1	1:C:4007:SER:N	2.40	0.54
1:C:4746:ALA:O	1:C:4750:ILE:HG12	2.07	0.54
1:A:1851:MET:HE2	1:A:1851:MET:N	2.22	0.54
1:A:3403:ARG:NH2	1:A:3404:ASP:OD1	2.39	0.54
1:A:3895:HIS:HB3	1:A:3971:GLY:HA2	1.89	0.54
1:A:4074:SER:O	1:A:4078:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:ARG:CZ	1:B:674:PHE:CD2	2.59	0.54
2:F:105:LYS:HZ3	2:F:106:LEU:H	1.54	0.54
1:B:199:LEU:HD12	1:B:200:TRP:N	2.23	0.54
1:B:1025:ARG:H	1:B:1025:ARG:HD3	1.73	0.54
1:B:1690:ASP:OD2	1:B:1693:GLN:N	2.40	0.54
1:B:2301:TYR:HB3	1:B:2331:TYR:CZ	2.43	0.54
1:B:2707:ALA:HB1	1:B:3009:TYR:HD2	1.72	0.54
1:B:2786:LYS:HD2	1:B:2786:LYS:O	2.07	0.54
1:B:3242:ASP:OD1	1:B:3242:ASP:N	2.33	0.54
1:B:3698:LEU:O	1:B:3702:VAL:HG23	2.08	0.54
1:B:4951:LYS:O	1:B:4955:GLU:HG2	2.08	0.54
1:D:593:HIS:HA	1:D:1593:PRO:HG2	1.89	0.54
1:D:2578:MET:CE	1:D:2582:MET:HG3	2.37	0.54
1:D:2707:ALA:HB1	1:D:3009:TYR:HD2	1.72	0.54
1:D:4156:HIS:HA	1:D:4161:ARG:HH21	1.73	0.54
1:C:593:HIS:HA	1:C:1593:PRO:HG2	1.89	0.54
1:C:2621:HIS:HA	1:C:2624:ARG:HE	1.73	0.54
1:C:2786:LYS:O	1:C:2786:LYS:HD2	2.07	0.54
1:C:2981:VAL:HG22	1:C:2985:ARG:HH22	1.71	0.54
1:C:3036:LYS:HA	1:C:3039:ILE:HD12	1.89	0.54
1:C:4001:MET:O	1:C:4005:GLN:NE2	2.34	0.54
1:C:4156:HIS:HA	1:C:4161:ARG:HH21	1.73	0.54
1:A:2308:GLN:N	1:A:2308:GLN:OE1	2.40	0.54
1:A:2431:ASP:O	1:A:2435:ARG:HG3	2.08	0.54
1:A:3579:LEU:HD22	1:A:3582:ARG:HG2	1.89	0.54
1:A:4024:VAL:HG11	1:A:4142:ASN:HB3	1.89	0.54
1:A:5030:LYS:HA	1:A:5033:GLU:HB2	1.90	0.54
1:B:290:TYR:N	1:B:302:VAL:O	2.39	0.54
1:B:497:TYR:HA	1:B:502:HIS:CE1	2.42	0.54
1:B:1938:GLN:HA	1:B:1941:ASN:ND2	2.22	0.54
1:B:3684:GLU:CD	1:B:3684:GLU:H	2.15	0.54
1:D:139:GLU:N	1:D:139:GLU:OE1	2.40	0.54
1:D:881:LEU:HD12	1:D:1041:GLN:HE21	1.72	0.54
1:D:2005:GLN:HA	1:D:2008:MET:SD	2.47	0.54
1:D:2193:GLN:HG3	1:D:2194:HIS:ND1	2.22	0.54
1:D:2310:CYS:HB2	1:D:2312:MET:HE3	1.90	0.54
1:D:2435:ARG:O	1:D:2508:ARG:NH2	2.41	0.54
1:D:2452:ARG:HD2	1:D:2453:ILE:HD13	1.90	0.54
1:D:3180:ASN:O	1:D:3184:GLU:HG2	2.06	0.54
1:D:4026:MET:O	1:D:4026:MET:HE3	2.07	0.54
1:D:4963:ILE:HD13	1:D:5030:LYS:NZ	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4156:HIS:HA	1:C:4161:ARG:NH2	2.22	0.54
1:C:4880:MET:HE2	1:C:4880:MET:H	1.72	0.54
1:A:1108:GLU:OE2	1:A:1108:GLU:N	2.36	0.54
1:A:1717:SER:O	1:A:1721:GLU:HG2	2.08	0.54
1:A:1805:GLU:OE1	1:A:1805:GLU:N	2.31	0.54
1:A:2212:VAL:HG11	1:A:2256:TYR:HE2	1.71	0.54
1:A:2301:TYR:HB3	1:A:2331:TYR:CZ	2.43	0.54
1:A:3775:ALA:O	1:A:3778:MET:HG2	2.07	0.54
1:A:4026:MET:O	1:A:4026:MET:HE3	2.07	0.54
1:A:4156:HIS:HA	1:A:4161:ARG:HH21	1.73	0.54
1:A:4738:ALA:HA	1:A:4743:MET:SD	2.48	0.54
1:A:4902:GLU:OE2	1:A:4902:GLU:N	2.26	0.54
1:A:4951:LYS:O	1:A:4955:GLU:HG2	2.08	0.54
2:F:18:ARG:NH2	2:F:51:GLY:HA3	2.21	0.54
2:F:54:GLU:O	1:B:1785:ALA:N	2.31	0.54
1:B:1813:ARG:O	1:B:1817:GLU:HG3	2.07	0.54
1:B:2193:GLN:HG3	1:B:2194:HIS:ND1	2.22	0.54
1:B:2431:ASP:O	1:B:2435:ARG:HG3	2.08	0.54
1:B:2466:LEU:HA	1:B:2469:ILE:HD12	1.90	0.54
1:B:2577:ILE:HD12	1:B:2578:MET:N	2.20	0.54
1:B:3036:LYS:HA	1:B:3039:ILE:HD12	1.90	0.54
1:B:4156:HIS:HA	1:B:4161:ARG:NH2	2.22	0.54
1:B:4634:GLU:CD	1:B:4637:GLY:H	2.15	0.54
1:D:960:MET:HE3	1:D:960:MET:H	1.72	0.54
1:D:1286:MET:HB3	1:D:1462:MET:HE3	1.89	0.54
1:D:1778:SER:HB3	1:D:1798:LEU:HB2	1.89	0.54
1:D:2431:ASP:O	1:D:2435:ARG:HG3	2.08	0.54
1:D:3411:LEU:HD12	1:D:3412:LEU:N	2.23	0.54
1:C:288:GLY:HA3	1:C:405:HIS:CE1	2.42	0.54
1:C:1228:ILE:HG22	1:C:1827:ARG:HH12	1.72	0.54
1:C:1717:SER:O	1:C:1721:GLU:HG2	2.08	0.54
1:C:2308:GLN:OE1	1:C:2308:GLN:N	2.40	0.54
1:C:3895:HIS:HB3	1:C:3971:GLY:HA2	1.89	0.54
1:C:4026:MET:HE3	1:C:4026:MET:O	2.07	0.54
1:A:960:MET:H	1:A:960:MET:HE3	1.72	0.54
1:A:1643:GLU:H	1:A:1643:GLU:CD	2.15	0.54
1:A:2317:GLY:HA3	1:A:2395:PRO:HB3	1.88	0.54
1:A:2822:THR:OG1	1:A:2824:GLU:OE2	2.21	0.54
1:A:3247:ASP:HA	1:A:3250:MET:HG2	1.89	0.54
1:A:3698:LEU:O	1:A:3702:VAL:HG23	2.08	0.54
2:H:3:GLN:OE1	2:H:3:GLN:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1108:GLU:OE2	1:B:1108:GLU:N	2.36	0.54
1:B:1954:ARG:NH2	1:B:2041:HIS:O	2.41	0.54
1:B:2654:TYR:HA	1:B:2661:TRP:HB2	1.90	0.54
1:B:4204:GLN:HB3	1:B:4245:MET:HG3	1.90	0.54
1:B:4735:GLU:OE1	1:B:4735:GLU:N	2.39	0.54
1:B:4963:ILE:HD13	1:B:5030:LYS:NZ	2.23	0.54
1:D:308:HIS:HD2	1:D:311:ALA:H	1.55	0.54
1:D:317:ARG:HH12	1:D:322:LYS:HG2	1.71	0.54
1:D:2177:LEU:HD12	1:D:2180:GLN:NE2	2.23	0.54
1:D:2212:VAL:HG11	1:D:2256:TYR:HE2	1.71	0.54
1:D:2318:TYR:OH	1:D:2418:LEU:N	2.41	0.54
1:D:3611:HIS:ND1	1:D:3611:HIS:O	2.38	0.54
1:D:5030:LYS:HA	1:D:5033:GLU:HB2	1.90	0.54
1:C:1979:LEU:O	1:C:1983:ALA:N	2.34	0.54
1:C:2107:GLN:HE22	1:C:3680:ALA:HA	1.72	0.54
1:C:3411:LEU:HD12	1:C:3412:LEU:N	2.23	0.54
1:C:4738:ALA:HA	1:C:4743:MET:SD	2.48	0.54
1:C:5030:LYS:HA	1:C:5033:GLU:HB2	1.90	0.54
1:A:1216:ILE:HG23	1:D:3424:LEU:HD13	1.90	0.54
1:A:1954:ARG:NH2	1:A:2041:HIS:O	2.41	0.54
1:A:3246:LEU:HA	1:A:3249:LEU:HD12	1.90	0.54
1:A:3456:GLN:O	1:A:3460:VAL:HG13	2.08	0.54
2:E:15:PHE:H	2:E:17:LYS:HZ3	1.56	0.54
1:B:56:GLN:HA	1:B:309:THR:HG21	1.90	0.54
1:B:1272:LEU:HD22	1:B:1289:LEU:HD21	1.90	0.54
1:B:2177:LEU:HD12	1:B:2180:GLN:NE2	2.23	0.54
1:B:2318:TYR:OH	1:B:2418:LEU:N	2.41	0.54
1:B:2891:LYS:O	1:B:2895:GLU:HG2	2.07	0.54
1:B:3246:LEU:HA	1:B:3249:LEU:HD12	1.90	0.54
1:D:1643:GLU:H	1:D:1643:GLU:CD	2.15	0.54
1:D:3354:LEU:HA	1:D:3358:PHE:HB2	1.89	0.54
1:C:2281:ILE:HG13	1:C:2282:ASP:OD1	2.08	0.54
1:C:2452:ARG:HD2	1:C:2453:ILE:HD13	1.90	0.54
1:C:2466:LEU:HA	1:C:2469:ILE:HD12	1.90	0.54
1:C:2538:THR:O	1:C:2542:SER:OG	2.23	0.54
1:C:3210:LEU:HB3	1:C:3304:CYS:O	2.08	0.54
1:C:3450:ASN:HA	1:C:3453:ARG:NE	2.22	0.54
1:C:4869:GLU:OE1	1:C:4869:GLU:N	2.29	0.54
1:A:1543:GLU:O	1:A:1546:THR:OG1	2.19	0.54
1:A:2177:LEU:HD12	1:A:2180:GLN:NE2	2.23	0.54
1:A:2452:ARG:HD2	1:A:2453:ILE:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3114:LYS:HE2	1:A:3116:SER:H	1.73	0.54
1:A:3210:LEU:HB3	1:A:3304:CYS:O	2.08	0.54
1:A:3450:ASN:HA	1:A:3453:ARG:NE	2.22	0.54
1:A:3943:ILE:O	1:A:3948:LYS:NZ	2.41	0.54
1:A:4727:LYS:HG2	1:A:4728:HIS:CE1	2.43	0.54
1:B:234:SER:O	1:B:242:ARG:NE	2.34	0.54
1:B:583:ILE:HA	1:B:586:ILE:HD12	1.90	0.54
1:B:1579:MET:HE1	1:B:1595:LEU:HD13	1.90	0.54
1:B:3456:GLN:O	1:B:3460:VAL:HG13	2.08	0.54
1:B:3822:ASP:O	1:B:3824:LYS:NZ	2.30	0.54
1:B:3895:HIS:HB3	1:B:3971:GLY:HA2	1.89	0.54
1:B:4156:HIS:HA	1:B:4161:ARG:HH21	1.73	0.54
1:D:23:GLN:HB3	1:D:34:LYS:NZ	2.23	0.54
1:D:630:GLU:OE2	1:D:630:GLU:N	2.34	0.54
1:D:2003:GLN:NE2	1:D:2007:ASN:OD1	2.41	0.54
1:D:3698:LEU:O	1:D:3702:VAL:HG23	2.08	0.54
1:C:2182:ILE:HA	1:C:2185:ILE:HD12	1.89	0.54
1:C:2431:ASP:O	1:C:2435:ARG:HG3	2.08	0.54
1:C:3246:LEU:HA	1:C:3249:LEU:HD12	1.90	0.54
1:C:3943:ILE:O	1:C:3948:LYS:NZ	2.41	0.54
1:C:4074:SER:O	1:C:4078:GLN:HG2	2.08	0.54
1:A:989:ALA:HA	1:A:1039:LEU:HD23	1.89	0.54
1:A:1731:LEU:HA	1:A:1772:ARG:HH12	1.73	0.54
1:A:3354:LEU:HA	1:A:3358:PHE:HB2	1.89	0.54
1:A:3537:LYS:HE3	1:A:3603:LEU:HD13	1.90	0.54
1:A:4654:ALA:O	1:A:4658:ILE:HG12	2.07	0.54
2:F:37:ASP:HB2	1:B:1782:PHE:HD2	1.71	0.54
1:B:615:ARG:HH12	1:B:1678:ASN:HA	1.73	0.54
1:B:1851:MET:N	1:B:1851:MET:HE2	2.22	0.54
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.07	0.54
1:B:3085:PRO:O	1:B:3089:LYS:HG3	2.08	0.54
1:B:3617:LYS:HD2	1:B:3618:ALA:N	2.23	0.54
1:B:5030:LYS:HA	1:B:5033:GLU:HB2	1.90	0.54
1:D:195:PHE:CG	1:C:2358:ILE:HB	2.42	0.54
1:D:1025:ARG:H	1:D:1025:ARG:HD3	1.73	0.54
1:D:1125:ASN:ND2	1:D:1128:ARG:HD2	2.22	0.54
1:D:1947:CYS:HB2	1:D:2126:ARG:HH12	1.71	0.54
1:D:3617:LYS:HD2	1:D:3618:ALA:N	2.23	0.54
1:D:4074:SER:O	1:D:4078:GLN:HG2	2.08	0.54
1:D:4738:ALA:HA	1:D:4743:MET:SD	2.48	0.54
1:C:1813:ARG:O	1:C:1817:GLU:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4204:GLN:HB3	1:C:4245:MET:HG3	1.90	0.54
1:A:199:LEU:HD12	1:A:200:TRP:N	2.23	0.53
1:A:583:ILE:HA	1:A:586:ILE:HD12	1.90	0.53
1:A:866:HIS:O	1:A:870:ILE:HG12	2.08	0.53
1:A:2435:ARG:O	1:A:2508:ARG:NH2	2.41	0.53
1:A:2654:TYR:HA	1:A:2661:TRP:HB2	1.90	0.53
1:A:3222:LYS:HG3	1:A:3226:GLU:HB2	1.90	0.53
1:A:4963:ILE:HD13	1:A:5030:LYS:NZ	2.23	0.53
2:E:42:ARG:HB3	2:E:44:LYS:HZ3	1.73	0.53
2:G:10:GLY:HA3	2:G:70:GLN:HB2	1.90	0.53
1:B:1717:SER:O	1:B:1721:GLU:HG2	2.08	0.53
1:B:2281:ILE:HG13	1:B:2282:ASP:OD1	2.08	0.53
1:B:2516:ASP:N	1:B:2516:ASP:OD1	2.35	0.53
1:B:2996:LYS:HE3	1:B:3000:LYS:HD3	1.89	0.53
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	1.88	0.53
1:D:170:ILE:HG13	1:D:179:TYR:CE1	2.43	0.53
1:D:583:ILE:HA	1:D:586:ILE:HD12	1.90	0.53
1:D:1935:VAL:O	1:D:1939:MET:HG3	2.08	0.53
1:D:2195:PRO:HB2	1:D:2199:ARG:HH21	1.73	0.53
1:D:2281:ILE:HG13	1:D:2282:ASP:OD1	2.08	0.53
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.08	0.53
1:D:2616:PRO:HG3	1:D:2650:ARG:HH12	1.73	0.53
1:D:2822:THR:OG1	1:D:2824:GLU:OE2	2.21	0.53
1:D:4654:ALA:O	1:D:4658:ILE:HG12	2.07	0.53
1:C:615:ARG:HH12	1:C:1678:ASN:HA	1.73	0.53
1:C:866:HIS:O	1:C:870:ILE:HG12	2.08	0.53
1:C:1543:GLU:HG2	1:C:1544:PRO:HD2	1.90	0.53
1:C:1579:MET:HE1	1:C:1595:LEU:HD13	1.90	0.53
1:C:1947:CYS:HB2	1:C:2126:ARG:HH12	1.71	0.53
1:C:2193:GLN:HG3	1:C:2194:HIS:ND1	2.22	0.53
1:C:2740:VAL:HG12	1:C:2818:ALA:HB1	1.90	0.53
1:C:2996:LYS:HE3	1:C:3000:LYS:HD3	1.89	0.53
1:C:3039:ILE:HB	1:C:3075:LEU:HD21	1.89	0.53
1:C:3085:PRO:O	1:C:3089:LYS:HG3	2.08	0.53
1:C:3456:GLN:O	1:C:3460:VAL:HG13	2.08	0.53
1:C:3617:LYS:HD2	1:C:3618:ALA:N	2.23	0.53
1:C:3946:GLN:OE1	1:C:3946:GLN:HA	2.06	0.53
1:C:4024:VAL:HG11	1:C:4142:ASN:HB3	1.89	0.53
1:C:4951:LYS:O	1:C:4955:GLU:HG2	2.08	0.53
1:A:39:ALA:HB2	1:A:47:CYS:HB3	1.90	0.53
1:A:881:LEU:HD12	1:A:1041:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1733:GLU:OE1	1:A:1733:GLU:N	2.27	0.53
1:A:1839:VAL:HG13	1:A:1843:LYS:HE3	1.89	0.53
1:A:1935:VAL:O	1:A:1939:MET:HG3	2.08	0.53
1:A:2013:LYS:HB2	1:A:3661:TRP:CE2	2.43	0.53
1:A:2293:GLN:OE1	1:A:2293:GLN:N	2.24	0.53
1:A:2310:CYS:HB2	1:A:2312:MET:HE3	1.90	0.53
1:A:2616:PRO:HG3	1:A:2650:ARG:HH12	1.73	0.53
1:A:3946:GLN:OE1	1:A:3946:GLN:HA	2.06	0.53
1:A:4746:ALA:O	1:A:4750:ILE:HG12	2.07	0.53
1:B:23:GLN:HB3	1:B:34:LYS:NZ	2.23	0.53
1:B:288:GLY:HA3	1:B:405:HIS:CE1	2.42	0.53
1:B:1125:ASN:ND2	1:B:1128:ARG:HD2	2.22	0.53
1:B:1935:VAL:O	1:B:1939:MET:HG3	2.08	0.53
1:B:2003:GLN:NE2	1:B:2007:ASN:OD1	2.41	0.53
1:B:2960:LEU:HA	1:B:2963:LEU:HB2	1.90	0.53
1:B:2970:SER:HA	1:B:2973:PHE:HE2	1.71	0.53
1:B:3528:THR:HG22	1:B:3563:VAL:HB	1.90	0.53
1:B:3860:ASN:HB3	1:B:3865:VAL:HB	1.88	0.53
1:B:4689:THR:OG1	1:B:4690:GLU:OE1	2.16	0.53
1:B:4880:MET:HE2	1:B:4880:MET:H	1.72	0.53
1:D:1731:LEU:HA	1:D:1772:ARG:HH12	1.73	0.53
1:D:1839:VAL:HG13	1:D:1843:LYS:HE3	1.89	0.53
1:D:1954:ARG:NH2	1:D:2041:HIS:O	2.41	0.53
1:C:23:GLN:HB3	1:C:34:LYS:NZ	2.23	0.53
1:C:1108:GLU:OE2	1:C:1108:GLU:N	2.36	0.53
1:C:2177:LEU:HD12	1:C:2180:GLN:NE2	2.23	0.53
1:C:2204:HIS:O	1:C:2208:MET:HG2	2.09	0.53
1:C:2318:TYR:OH	1:C:2418:LEU:N	2.41	0.53
1:C:2578:MET:CE	1:C:2582:MET:HG3	2.37	0.53
1:C:3825:GLU:OE1	1:C:3828:PHE:N	2.41	0.53
1:C:4037:ASN:O	1:C:4042:ARG:NH2	2.39	0.53
1:A:1272:LEU:HD22	1:A:1289:LEU:HD21	1.90	0.53
1:A:1286:MET:HB3	1:A:1462:MET:HE3	1.89	0.53
1:A:2018:GLU:O	1:A:2028:ARG:NH1	2.42	0.53
1:A:2620:GLN:O	1:A:2624:ARG:HG3	2.09	0.53
1:A:3187:ARG:HE	1:A:3271:GLU:HG3	1.74	0.53
1:A:3411:LEU:HD12	1:A:3412:LEU:N	2.23	0.53
1:A:3603:LEU:O	1:A:3607:GLU:HG3	2.08	0.53
1:A:4682:GLU:O	1:A:4727:LYS:NZ	2.40	0.53
2:E:94:HIS:CG	2:E:94:HIS:O	2.61	0.53
2:G:59:TRP:CZ3	1:C:1783:VAL:HG11	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:593:HIS:HA	1:B:1593:PRO:HG2	1.89	0.53
1:B:2578:MET:CE	1:B:2582:MET:HG3	2.37	0.53
1:B:2627:VAL:HG22	1:B:2678:LEU:HD11	1.89	0.53
1:B:3210:LEU:HB3	1:B:3304:CYS:O	2.08	0.53
1:B:3603:LEU:O	1:B:3607:GLU:HG3	2.08	0.53
1:B:4074:SER:O	1:B:4078:GLN:HG2	2.08	0.53
1:D:1293:LEU:HD21	1:D:1594:ARG:HD3	1.91	0.53
1:D:2229:VAL:HB	1:D:2267:MET:HE3	1.90	0.53
1:D:2621:HIS:HA	1:D:2624:ARG:HE	1.73	0.53
1:D:3528:THR:HG22	1:D:3563:VAL:HB	1.90	0.53
1:D:3801:GLY:HA2	1:D:3804:ILE:HG22	1.91	0.53
1:C:290:TYR:N	1:C:302:VAL:O	2.39	0.53
1:C:1025:ARG:HD3	1:C:1025:ARG:H	1.73	0.53
1:C:1653:LEU:HD22	1:C:1707:LEU:HD11	1.90	0.53
1:C:2310:CYS:SG	1:C:2312:MET:HG2	2.49	0.53
1:C:2393:ASP:OD1	1:C:2418:LEU:N	2.42	0.53
1:C:2637:ALA:O	1:C:2641:LEU:HG	2.09	0.53
1:C:2970:SER:HA	1:C:2973:PHE:HE2	1.71	0.53
1:A:615:ARG:HH12	1:A:1678:ASN:HA	1.73	0.53
1:A:2195:PRO:HB2	1:A:2199:ARG:HH21	1.73	0.53
1:A:2229:VAL:HB	1:A:2267:MET:HE3	1.90	0.53
1:A:3570:ARG:NH1	1:A:3570:ARG:HA	2.23	0.53
1:A:3801:GLY:HA2	1:A:3804:ILE:HG22	1.91	0.53
1:A:4879:MET:HB3	1:A:4880:MET:HE2	1.89	0.53
1:A:4903:ASP:O	1:A:4913:ARG:NH2	2.41	0.53
2:E:52:LYS:HA	2:E:52:LYS:HE2	1.90	0.53
1:B:28:VAL:N	1:B:31:GLU:O	2.31	0.53
1:B:73:LEU:O	1:B:106:ALA:N	2.41	0.53
1:B:2225:PHE:CB	1:B:2228:MET:HE2	2.36	0.53
1:B:2620:GLN:O	1:B:2624:ARG:HG3	2.09	0.53
1:B:3114:LYS:HE2	1:B:3116:SER:H	1.73	0.53
1:B:3537:LYS:HE3	1:B:3603:LEU:HD13	1.90	0.53
1:B:3801:GLY:HA2	1:B:3804:ILE:HG22	1.91	0.53
1:D:615:ARG:HH12	1:D:1678:ASN:HA	1.74	0.53
1:D:1018:ASN:OD1	1:D:1021:LEU:N	2.42	0.53
1:D:2182:ILE:HA	1:D:2185:ILE:HD12	1.89	0.53
1:D:2466:LEU:HA	1:D:2469:ILE:HD12	1.90	0.53
1:D:4903:ASP:O	1:D:4913:ARG:NH2	2.41	0.53
1:C:56:GLN:HA	1:C:309:THR:HG21	1.90	0.53
1:C:73:LEU:O	1:C:106:ALA:N	2.41	0.53
1:C:199:LEU:HD12	1:C:200:TRP:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:630:GLU:OE2	1:C:630:GLU:N	2.34	0.53
1:C:1478:ASP:OD1	1:C:1479:GLU:N	2.40	0.53
1:C:1935:VAL:O	1:C:1939:MET:HG3	2.08	0.53
1:C:2005:GLN:HA	1:C:2008:MET:SD	2.47	0.53
1:C:3247:ASP:HA	1:C:3250:MET:HG2	1.89	0.53
1:C:3801:GLY:HA2	1:C:3804:ILE:HG22	1.91	0.53
1:A:23:GLN:HB3	1:A:34:LYS:NZ	2.23	0.53
1:A:303:ASP:H	1:A:306:LYS:HE2	1.73	0.53
1:A:497:TYR:HA	1:A:502:HIS:HE1	1.73	0.53
1:A:630:GLU:OE2	1:A:630:GLU:N	2.34	0.53
1:A:1653:LEU:HD22	1:A:1707:LEU:HD11	1.90	0.53
1:A:1936:LYS:HB3	1:A:2105:TRP:CZ3	2.44	0.53
1:A:2243:SER:OG	1:A:2245:GLN:OE1	2.18	0.53
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.08	0.53
1:A:2447:LYS:O	1:A:2451:LEU:HD12	2.09	0.53
1:A:4732:PHE:HD2	1:A:4737:ILE:HD13	1.74	0.53
2:G:7:ILE:HG12	1:C:719:LEU:HD22	1.91	0.53
1:B:1543:GLU:HG2	1:B:1544:PRO:HD2	1.90	0.53
1:B:1731:LEU:HA	1:B:1772:ARG:HH12	1.73	0.53
1:B:2621:HIS:HA	1:B:2624:ARG:HE	1.73	0.53
1:B:2740:VAL:HG12	1:B:2818:ALA:HB1	1.90	0.53
1:B:2887:GLY:O	1:B:2891:LYS:HG3	2.09	0.53
1:B:3187:ARG:HE	1:B:3271:GLU:HG3	1.74	0.53
1:B:3411:LEU:HD12	1:B:3412:LEU:N	2.23	0.53
1:B:4732:PHE:HD2	1:B:4737:ILE:HD13	1.74	0.53
1:D:1465:ASP:OD2	1:D:1468:LYS:N	2.42	0.53
1:D:1579:MET:HE1	1:D:1595:LEU:HD13	1.90	0.53
1:D:1717:SER:O	1:D:1721:GLU:HG2	2.08	0.53
1:D:2204:HIS:O	1:D:2208:MET:HG2	2.08	0.53
1:D:2310:CYS:SG	1:D:2312:MET:HG2	2.49	0.53
1:D:2393:ASP:OD1	1:D:2418:LEU:N	2.42	0.53
1:D:3266:MET:HB2	1:D:3269:VAL:HB	1.91	0.53
1:D:3603:LEU:O	1:D:3607:GLU:HG3	2.08	0.53
1:D:3775:ALA:O	1:D:3778:MET:HG2	2.07	0.53
1:C:308:HIS:HD2	1:C:311:ALA:H	1.55	0.53
1:C:583:ILE:HA	1:C:586:ILE:HD12	1.90	0.53
1:C:1424:PRO:O	1:C:1428:LEU:HG	2.09	0.53
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.41	0.53
1:C:2340:PHE:CD2	1:C:2435:ARG:HD3	2.44	0.53
1:C:2627:VAL:HG22	1:C:2678:LEU:HD11	1.89	0.53
1:C:3222:LYS:HG3	1:C:3226:GLU:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3670:GLU:OE1	1:C:3731:LYS:NZ	2.29	0.53
1:C:3684:GLU:H	1:C:3684:GLU:CD	2.15	0.53
1:C:4879:MET:HB3	1:C:4880:MET:HE2	1.89	0.53
1:A:924:MET:C	1:A:924:MET:HE2	2.34	0.53
1:A:2107:GLN:HG3	1:A:3683:GLN:HE22	1.74	0.53
1:A:2281:ILE:HG13	1:A:2282:ASP:OD1	2.08	0.53
1:A:2340:PHE:CD2	1:A:2435:ARG:HD3	2.44	0.53
1:A:2637:ALA:O	1:A:2641:LEU:HG	2.09	0.53
1:A:2707:ALA:HB1	1:A:3009:TYR:HD2	1.72	0.53
1:A:3146:HIS:CD2	1:A:3147:ILE:HD12	2.37	0.53
2:E:23:VAL:HG23	2:E:47:LYS:HD2	1.89	0.53
2:F:82:TYR:CD2	2:F:87:HIS:HB2	2.43	0.53
1:B:303:ASP:H	1:B:306:LYS:HE2	1.73	0.53
1:B:308:HIS:HD2	1:B:311:ALA:H	1.55	0.53
1:B:2013:LYS:HB2	1:B:3661:TRP:CE2	2.43	0.53
1:B:3368:ARG:NH1	1:B:3401:LEU:HB2	2.24	0.53
1:B:3570:ARG:NH1	1:B:3570:ARG:HA	2.23	0.53
1:B:4024:VAL:HG11	1:B:4142:ASN:HB3	1.89	0.53
1:B:4223:ASN:HB3	1:B:4224:GLU:OE2	2.09	0.53
1:B:5006:GLN:H	1:B:5006:GLN:CD	2.12	0.53
1:D:866:HIS:O	1:D:870:ILE:HG12	2.08	0.53
1:D:1936:LYS:HB3	1:D:2105:TRP:CZ3	2.44	0.53
1:D:2013:LYS:HB2	1:D:3661:TRP:CE2	2.43	0.53
1:D:2620:GLN:O	1:D:2624:ARG:HG3	2.09	0.53
1:D:2960:LEU:HA	1:D:2963:LEU:HB2	1.90	0.53
1:D:3114:LYS:HE2	1:D:3116:SER:H	1.73	0.53
1:D:3236:VAL:HA	1:D:3239:MET:HE3	1.91	0.53
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	1.88	0.53
1:D:3672:ARG:HD3	1:D:3672:ARG:H	1.74	0.53
1:D:3943:ILE:O	1:D:3948:LYS:NZ	2.41	0.53
1:D:4240:ASP:OD1	1:D:4675:LYS:NZ	2.35	0.53
1:C:1293:LEU:HD21	1:C:1594:ARG:HD3	1.91	0.53
1:C:2003:GLN:NE2	1:C:2007:ASN:OD1	2.41	0.53
1:C:2195:PRO:HB2	1:C:2199:ARG:HH21	1.73	0.53
1:C:2301:TYR:HB3	1:C:2331:TYR:CZ	2.43	0.53
1:C:2447:LYS:O	1:C:2451:LEU:HD12	2.09	0.53
1:C:2887:GLY:O	1:C:2891:LYS:HG3	2.09	0.53
1:C:3266:MET:HB2	1:C:3269:VAL:HB	1.91	0.53
1:C:3570:ARG:HA	1:C:3570:ARG:NH1	2.23	0.53
1:C:3775:ALA:O	1:C:3778:MET:HG2	2.08	0.53
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2318:TYR:OH	1:A:2418:LEU:N	2.41	0.53
1:A:2621:HIS:HA	1:A:2624:ARG:HE	1.73	0.53
1:A:2960:LEU:HA	1:A:2963:LEU:HB2	1.90	0.53
1:A:4223:ASN:HB3	1:A:4224:GLU:OE2	2.09	0.53
2:E:17:LYS:HG2	2:E:20:GLN:HE22	1.73	0.53
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.42	0.53
1:B:2018:GLU:O	1:B:2028:ARG:NH1	2.42	0.53
1:B:2107:GLN:HG3	1:B:3683:GLN:HE22	1.74	0.53
1:B:2229:VAL:HB	1:B:2267:MET:HE3	1.90	0.53
1:B:4879:MET:HB3	1:B:4880:MET:HE2	1.89	0.53
1:D:3456:GLN:O	1:D:3460:VAL:HG13	2.08	0.53
1:D:4879:MET:HB3	1:D:4880:MET:HE2	1.89	0.53
1:C:991:ASN:O	1:C:995:VAL:HG23	2.09	0.53
1:C:2013:LYS:HB2	1:C:3661:TRP:CE2	2.43	0.53
1:C:2310:CYS:HB2	1:C:2312:MET:HE3	1.90	0.53
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.08	0.53
1:C:2620:GLN:O	1:C:2624:ARG:HG3	2.09	0.53
1:C:2654:TYR:HA	1:C:2661:TRP:HB2	1.90	0.53
1:C:3114:LYS:HE2	1:C:3116:SER:H	1.73	0.53
1:C:3537:LYS:HE3	1:C:3603:LEU:HD13	1.90	0.53
1:C:4223:ASN:HB3	1:C:4224:GLU:OE2	2.09	0.53
1:A:593:HIS:HA	1:A:1593:PRO:HG2	1.89	0.53
1:A:1543:GLU:HG2	1:A:1544:PRO:HD2	1.90	0.53
1:A:1690:ASP:OD2	1:A:1693:GLN:N	2.40	0.53
1:A:2281:ILE:HD12	1:A:2282:ASP:H	1.74	0.53
1:A:3844:LEU:O	1:A:3848:GLU:HG2	2.09	0.53
1:B:39:ALA:HB2	1:B:47:CYS:HB3	1.90	0.53
1:B:866:HIS:O	1:B:870:ILE:HG12	2.08	0.53
1:B:2233:CYS:O	1:B:2234:ARG:C	2.52	0.53
1:B:3505:VAL:HG13	1:B:3511:VAL:HG11	1.91	0.53
1:D:991:ASN:O	1:D:995:VAL:HG23	2.09	0.53
1:D:1543:GLU:HG2	1:D:1544:PRO:HD2	1.90	0.53
1:D:2301:TYR:HB3	1:D:2331:TYR:CZ	2.43	0.53
1:D:3222:LYS:HG3	1:D:3226:GLU:HB2	1.90	0.53
1:D:3596:VAL:O	1:D:3600:SER:OG	2.22	0.53
1:C:218:HIS:HD2	1:C:392:ARG:HH22	1.57	0.53
1:C:819:GLU:OE1	1:C:819:GLU:N	2.42	0.53
1:C:1954:ARG:NH2	1:C:2041:HIS:O	2.41	0.53
1:C:3368:ARG:NH1	1:C:3401:LEU:HB2	2.24	0.53
1:C:3603:LEU:O	1:C:3607:GLU:HG3	2.08	0.53
1:C:3916:ILE:HD12	1:C:3916:ILE:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:ILE:HG13	1:A:179:TYR:CE1	2.43	0.53
1:A:218:HIS:HD2	1:A:392:ARG:HH22	1.57	0.53
1:A:991:ASN:O	1:A:995:VAL:HG23	2.09	0.53
1:A:2230:THR:OG1	1:A:2268[B]:GLN:NE2	2.38	0.53
1:A:2310:CYS:SG	1:A:2312:MET:HG2	2.49	0.53
1:A:2887:GLY:O	1:A:2891:LYS:HG3	2.09	0.53
1:A:3563:VAL:HG21	1:A:3573:MET:CG	2.39	0.53
2:H:21:THR:HB	2:H:49:MET:HE2	1.91	0.53
1:B:991:ASN:O	1:B:995:VAL:HG23	2.09	0.53
1:B:1424:PRO:O	1:B:1428:LEU:HG	2.09	0.53
1:B:1855:GLY:O	1:B:1859:VAL:HG23	2.07	0.53
1:B:2310:CYS:SG	1:B:2312:MET:HG2	2.49	0.53
1:B:2452:ARG:HD2	1:B:2453:ILE:HD13	1.90	0.53
1:B:3384:LYS:HD2	1:B:3385:ALA:H	1.73	0.53
1:B:4007:SER:O	1:B:4010:ILE:HG12	2.09	0.53
1:D:303:ASP:H	1:D:306:LYS:HE2	1.73	0.53
1:D:2654:TYR:HA	1:D:2661:TRP:HB2	1.90	0.53
1:D:3085:PRO:O	1:D:3089:LYS:HG3	2.08	0.53
1:D:3210:LEU:HB3	1:D:3304:CYS:O	2.08	0.53
1:D:3247:ASP:HA	1:D:3250:MET:HG2	1.89	0.53
1:D:3916:ILE:H	1:D:3916:ILE:HD12	1.74	0.53
1:C:670:GLU:OE1	1:C:670:GLU:N	2.42	0.53
1:C:1153:ILE:HD13	1:C:1160:ILE:HG12	1.91	0.53
1:C:2960:LEU:HA	1:C:2963:LEU:HB2	1.90	0.53
1:C:3384:LYS:HD2	1:C:3385:ALA:H	1.73	0.53
1:C:3528:THR:HG22	1:C:3563:VAL:HB	1.90	0.53
1:C:3844:LEU:O	1:C:3848:GLU:HG2	2.09	0.53
1:A:73:LEU:O	1:A:106:ALA:N	2.41	0.53
1:A:262:LEU:HD21	1:A:280:LEU:HD13	1.91	0.53
1:A:1465:ASP:OD2	1:A:1468:LYS:N	2.42	0.53
1:A:1939:MET:SD	1:A:2105:TRP:HH2	2.32	0.53
1:A:2003:GLN:NE2	1:A:2007:ASN:OD1	2.41	0.53
1:A:2393:ASP:OD1	1:A:2418:LEU:N	2.42	0.53
1:A:2828:GLU:OE2	1:A:2935:TYR:OH	2.24	0.53
2:H:73:LYS:HE3	1:D:719:LEU:HD23	1.90	0.53
1:B:467:LYS:HZ1	1:B:471:LEU:HB2	1.72	0.53
1:B:1936:LYS:HB3	1:B:2105:TRP:CZ3	2.44	0.53
1:B:2310:CYS:HB2	1:B:2312:MET:HE3	1.90	0.53
1:B:2340:PHE:CD2	1:B:2435:ARG:HD3	2.44	0.53
1:B:2393:ASP:OD1	1:B:2418:LEU:N	2.42	0.53
1:B:2637:ALA:O	1:B:2641:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3222:LYS:HG3	1:B:3226:GLU:HB2	1.90	0.53
1:B:3563:VAL:HG21	1:B:3573:MET:CG	2.39	0.53
1:B:4090:LYS:HD2	1:B:4123:ILE:HD11	1.90	0.53
1:D:199:LEU:HD12	1:D:200:TRP:N	2.23	0.53
1:D:218:HIS:HD2	1:D:392:ARG:HH22	1.57	0.53
1:D:218:HIS:HB3	1:D:392:ARG:NH1	2.24	0.53
1:D:468:LEU:O	1:D:472:ARG:HG2	2.09	0.53
1:D:2224:ARG:HB2	1:D:2225:PHE:CE2	2.44	0.53
1:D:3228:ALA:HA	1:D:3232:LEU:HD23	1.91	0.53
1:D:3368:ARG:NH1	1:D:3401:LEU:HB2	2.24	0.53
1:D:3570:ARG:NH1	1:D:3570:ARG:HA	2.23	0.53
1:D:4732:PHE:HD2	1:D:4737:ILE:HD13	1.74	0.53
1:C:118:LEU:HA	1:C:137:LEU:HA	1.91	0.53
1:C:1272:LEU:HD22	1:C:1289:LEU:HD21	1.90	0.53
1:C:1465:ASP:OD2	1:C:1468:LYS:N	2.42	0.53
1:C:1731:LEU:HA	1:C:1772:ARG:HH12	1.73	0.53
1:C:1939:MET:SD	1:C:2105:TRP:HH2	2.32	0.53
1:C:3505:VAL:HG13	1:C:3511:VAL:HG11	1.91	0.53
1:C:3592:ILE:O	1:C:3595:ARG:HG3	2.09	0.53
1:A:484:LEU:HD13	1:A:529:LEU:HD22	1.91	0.52
1:A:3592:ILE:O	1:A:3595:ARG:HG3	2.09	0.52
1:A:4090:LYS:HD2	1:A:4123:ILE:HD11	1.90	0.52
2:G:88:PRO:HB2	1:C:623:GLU:OE2	2.08	0.52
1:B:670:GLU:OE1	1:B:670:GLU:N	2.42	0.52
1:B:686:TRP:HA	1:B:779:PRO:HA	1.91	0.52
1:B:924:MET:C	1:B:924:MET:HE2	2.34	0.52
1:B:1286:MET:HE2	1:B:1286:MET:HA	1.91	0.52
1:B:2195:PRO:HB2	1:B:2199:ARG:HH21	1.73	0.52
1:B:2281:ILE:HD12	1:B:2282:ASP:H	1.74	0.52
1:B:2520:HIS:HA	1:B:2523:ASP:OD2	2.09	0.52
1:D:118:LEU:HA	1:D:137:LEU:HA	1.91	0.52
1:D:1424:PRO:O	1:D:1428:LEU:HG	2.09	0.52
1:D:2044:ILE:HG23	1:D:3667:HIS:CD2	2.44	0.52
1:D:2340:PHE:CD2	1:D:2435:ARG:HD3	2.44	0.52
1:D:2447:LYS:O	1:D:2451:LEU:HD12	2.09	0.52
1:D:2637:ALA:O	1:D:2641:LEU:HG	2.08	0.52
1:D:2980:VAL:HB	1:D:2985:ARG:HA	1.91	0.52
1:D:3384:LYS:HD2	1:D:3385:ALA:H	1.73	0.52
1:D:3537:LYS:HE3	1:D:3603:LEU:HD13	1.90	0.52
1:D:4208:PRO:O	1:D:4212:GLU:HG2	2.09	0.52
1:C:39:ALA:HB2	1:C:47:CYS:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:262:LEU:HD21	1:C:280:LEU:HD13	1.91	0.52
1:C:2520:HIS:HA	1:C:2523:ASP:OD2	2.09	0.52
1:C:3187:ARG:HE	1:C:3271:GLU:HG3	1.74	0.52
1:C:3228:ALA:HA	1:C:3232:LEU:HD23	1.91	0.52
1:C:3672:ARG:H	1:C:3672:ARG:HD3	1.74	0.52
1:C:4732:PHE:HD2	1:C:4737:ILE:HD13	1.74	0.52
1:A:651:GLY:O	1:A:658:GLN:NE2	2.42	0.52
1:A:670:GLU:N	1:A:670:GLU:OE1	2.42	0.52
1:A:2198:MET:HB3	1:A:2203:MET:SD	2.50	0.52
1:A:2233:CYS:O	1:A:2234:ARG:C	2.52	0.52
1:A:2584[B]:HIS:HD2	1:A:2625:ARG:HD3	1.74	0.52
1:A:3266:MET:HB2	1:A:3269:VAL:HB	1.91	0.52
1:A:3384:LYS:HD2	1:A:3385:ALA:H	1.73	0.52
1:A:3528:THR:HG22	1:A:3563:VAL:HB	1.90	0.52
1:A:4712:PRO:HB2	1:A:4715:TYR:HB3	1.92	0.52
1:A:4824:ARG:HA	1:A:4827:LEU:HG	1.91	0.52
1:B:218:HIS:HD2	1:B:392:ARG:HH22	1.57	0.52
1:B:360:ALA:HA	1:B:377:ILE:HG12	1.91	0.52
1:B:413:GLN:HE22	1:B:437:PRO:HD3	1.74	0.52
1:B:1434:TYR:HE1	1:B:1517:GLY:HA3	1.75	0.52
1:B:1939:MET:SD	1:B:2105:TRP:HH2	2.32	0.52
1:B:2198:MET:HB3	1:B:2203:MET:SD	2.50	0.52
1:B:2204:HIS:O	1:B:2208:MET:HG2	2.08	0.52
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.08	0.52
1:B:2452:ARG:HH11	1:C:175:SER:HA	1.73	0.52
1:B:2583:LEU:HD11	1:B:2614:ILE:HD13	1.91	0.52
1:B:3247:ASP:HA	1:B:3250:MET:HG2	1.89	0.52
1:B:3592:ILE:O	1:B:3595:ARG:HG3	2.09	0.52
1:B:3916:ILE:H	1:B:3916:ILE:HD12	1.74	0.52
1:B:4583:SER:HB3	1:B:4631:PHE:CZ	2.45	0.52
1:B:4903:ASP:O	1:B:4913:ARG:NH2	2.41	0.52
1:D:73:LEU:O	1:D:106:ALA:N	2.41	0.52
1:D:414:PHE:CE1	1:D:418:LEU:HD21	2.45	0.52
1:D:2018:GLU:O	1:D:2028:ARG:NH1	2.42	0.52
1:D:2107:GLN:HG3	1:D:3683:GLN:HE22	1.74	0.52
1:D:3435:PHE:HD1	1:D:3517:MET:HB2	1.74	0.52
1:D:3844:LEU:O	1:D:3848:GLU:HG2	2.09	0.52
1:D:4968:PHE:O	1:D:4974:GLY:HA3	2.09	0.52
1:C:670:GLU:OE1	1:C:788:LYS:NZ	2.43	0.52
1:C:2018:GLU:O	1:C:2028:ARG:NH1	2.42	0.52
1:C:3384:LYS:HG3	1:C:3386:GLU:HG3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3756:LYS:HG2	1:C:3760:LYS:HE3	1.91	0.52
1:C:4007:SER:O	1:C:4010:ILE:HG12	2.09	0.52
1:C:4968:PHE:O	1:C:4974:GLY:HA3	2.09	0.52
1:A:218:HIS:HB3	1:A:392:ARG:NH1	2.24	0.52
1:A:360:ALA:HA	1:A:377:ILE:HG12	1.92	0.52
1:A:468:LEU:O	1:A:472:ARG:HG2	2.09	0.52
1:A:1424:PRO:O	1:A:1428:LEU:HG	2.09	0.52
1:A:1579:MET:HE1	1:A:1595:LEU:HD13	1.90	0.52
1:A:2902:HIS:HD2	1:A:2905:LEU:HG	1.74	0.52
1:A:2980:VAL:HB	1:A:2985:ARG:HA	1.92	0.52
1:A:3617:LYS:HD2	1:A:3618:ALA:N	2.23	0.52
1:A:4208:PRO:O	1:A:4212:GLU:HG2	2.09	0.52
1:A:4968:PHE:O	1:A:4974:GLY:HA3	2.09	0.52
1:B:170:ILE:HG13	1:B:179:TYR:CE1	2.43	0.52
1:B:218:HIS:HB3	1:B:392:ARG:NH1	2.24	0.52
1:B:651:GLY:O	1:B:658:GLN:NE2	2.42	0.52
1:B:1018:ASN:OD1	1:B:1021:LEU:N	2.42	0.52
1:B:2224:ARG:HB2	1:B:2225:PHE:CE2	2.44	0.52
1:B:2980:VAL:HB	1:B:2985:ARG:HA	1.91	0.52
1:B:3236:VAL:HA	1:B:3239:MET:HE3	1.91	0.52
1:B:3955:MET:HE2	1:B:4015:GLU:HG2	1.92	0.52
1:B:4954:MET:HE2	1:B:4954:MET:HA	1.92	0.52
1:B:4980:LEU:HB2	1:B:4981:GLU:OE2	2.09	0.52
1:D:262:LEU:HD21	1:D:280:LEU:HD13	1.91	0.52
1:D:360:ALA:HA	1:D:377:ILE:HG12	1.92	0.52
1:D:497:TYR:HA	1:D:502:HIS:HE1	1.73	0.52
1:D:580:GLU:HB2	1:D:620:LEU:HD13	1.91	0.52
1:D:970:LEU:H	1:D:970:LEU:HD12	1.75	0.52
1:D:1939:MET:SD	1:D:2105:TRP:HH2	2.32	0.52
1:D:2198:MET:HB3	1:D:2203:MET:SD	2.50	0.52
1:D:4902:GLU:OE2	1:D:4902:GLU:N	2.26	0.52
1:D:4980:LEU:HB2	1:D:4981:GLU:OE2	2.09	0.52
1:C:468:LEU:O	1:C:472:ARG:HG2	2.09	0.52
1:C:1936:LYS:HB3	1:C:2105:TRP:CZ3	2.44	0.52
1:C:3236:VAL:HA	1:C:3239:MET:HE3	1.91	0.52
1:C:3955:MET:HE2	1:C:4015:GLU:HG2	1.92	0.52
1:C:4208:PRO:O	1:C:4212:GLU:HG2	2.09	0.52
1:A:1206:GLN:HE22	1:A:1233:PRO:HG3	1.74	0.52
1:A:2914:LYS:HD2	1:A:2915:GLU:HG3	1.92	0.52
1:B:1465:ASP:OD2	1:B:1468:LYS:N	2.42	0.52
1:B:2858:GLN:HB2	1:B:2859:PRO:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3266:MET:HB2	1:B:3269:VAL:HB	1.91	0.52
1:B:3410:PRO:O	1:B:3414:ARG:HG2	2.10	0.52
1:B:4712:PRO:HB2	1:B:4715:TYR:HB3	1.92	0.52
1:D:460:GLN:O	1:D:464:LYS:HB2	2.10	0.52
1:D:483:MET:HA	1:D:486:LEU:HG	1.92	0.52
1:D:670:GLU:OE1	1:D:670:GLU:N	2.42	0.52
1:D:3181:THR:C	1:D:3185:LYS:HZ2	2.18	0.52
1:D:3187:ARG:HE	1:D:3271:GLU:HG3	1.73	0.52
1:D:3955:MET:HE2	1:D:4015:GLU:HG2	1.92	0.52
1:C:320:LYS:NZ	1:C:386:ASP:OD2	2.34	0.52
1:C:348:VAL:HG13	1:C:357:LEU:HB3	1.92	0.52
1:C:414:PHE:CE1	1:C:418:LEU:HD21	2.45	0.52
1:C:460:GLN:O	1:C:464:LYS:HB2	2.10	0.52
1:C:1018:ASN:OD1	1:C:1021:LEU:N	2.42	0.52
1:C:2107:GLN:NE2	1:C:3680:ALA:HA	2.25	0.52
1:C:3435:PHE:HD1	1:C:3517:MET:HB2	1.75	0.52
1:C:4712:PRO:HB2	1:C:4715:TYR:HB3	1.92	0.52
1:C:4826:ILE:O	1:C:4830:VAL:HG23	2.10	0.52
1:A:56:GLN:HA	1:A:309:THR:HG21	1.90	0.52
1:A:403:MET:HE1	1:A:478:PHE:HZ	1.74	0.52
1:A:483:MET:HA	1:A:486:LEU:HG	1.92	0.52
1:A:486:LEU:HD12	1:A:487:VAL:HG23	1.92	0.52
1:A:681:HIS:N	1:A:784:SER:OG	2.36	0.52
1:A:979:PRO:O	1:A:983:THR:HG23	2.10	0.52
1:A:2466:LEU:HA	1:A:2469:ILE:HD12	1.90	0.52
1:A:2527:LEU:HD13	1:A:2578:MET:HE2	1.92	0.52
1:A:3085:PRO:O	1:A:3089:LYS:HG3	2.08	0.52
1:A:3256:LEU:HB3	1:A:3266:MET:HE2	1.92	0.52
1:A:3368:ARG:NH1	1:A:3401:LEU:HB2	2.24	0.52
1:A:3505:VAL:HG13	1:A:3511:VAL:HG11	1.91	0.52
1:A:4240:ASP:OD1	1:A:4675:LYS:NZ	2.35	0.52
1:B:283:ARG:HG2	1:B:283:ARG:HH11	1.75	0.52
1:B:468:LEU:O	1:B:472:ARG:HG2	2.09	0.52
1:B:497:TYR:HA	1:B:502:HIS:HE1	1.73	0.52
1:B:4157:ASP:O	1:B:4161:ARG:HG2	2.10	0.52
1:D:39:ALA:HB2	1:D:47:CYS:HB3	1.90	0.52
1:D:348:VAL:HG13	1:D:357:LEU:HB3	1.92	0.52
1:D:924:MET:HE2	1:D:924:MET:C	2.34	0.52
1:D:979:PRO:O	1:D:983:THR:HG23	2.10	0.52
1:D:1206:GLN:HE22	1:D:1233:PRO:HG3	1.74	0.52
1:D:1272:LEU:HD22	1:D:1289:LEU:HD21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1653:LEU:HD22	1:D:1707:LEU:HD11	1.90	0.52
1:D:1974:ARG:HE	1:D:3642:TYR:HB2	1.74	0.52
1:D:2189:LYS:HA	1:D:2192:TYR:HD2	1.75	0.52
1:D:2740:VAL:HG12	1:D:2818:ALA:HB1	1.90	0.52
1:D:3505:VAL:HG13	1:D:3511:VAL:HG11	1.91	0.52
1:D:3563:VAL:HG21	1:D:3573:MET:CG	2.39	0.52
1:D:4007:SER:O	1:D:4010:ILE:HG12	2.09	0.52
1:C:170:ILE:HG13	1:C:179:TYR:CE1	2.44	0.52
1:C:283:ARG:HG2	1:C:283:ARG:HH11	1.75	0.52
1:C:692:TYR:O	1:C:827:LYS:NZ	2.41	0.52
1:C:871:ARG:HD2	1:C:872:GLU:N	2.25	0.52
1:C:908:VAL:HG13	1:C:909:ASN:H	1.75	0.52
1:C:1434:TYR:HE1	1:C:1517:GLY:HA3	1.75	0.52
1:C:1653:LEU:HA	1:C:1656:ARG:HD2	1.92	0.52
1:C:2107:GLN:HG3	1:C:3683:GLN:HE22	1.74	0.52
1:C:2229:VAL:HB	1:C:2267:MET:HE3	1.90	0.52
1:C:2583:LEU:HD11	1:C:2614:ILE:HD13	1.91	0.52
1:C:3933:PHE:HB3	1:C:3951:PHE:CZ	2.45	0.52
1:A:22:LEU:HD21	1:A:37:LEU:HB3	1.92	0.52
1:A:1018:ASN:OD1	1:A:1021:LEU:N	2.42	0.52
1:A:2189:LYS:HA	1:A:2192:TYR:HD2	1.75	0.52
1:A:2583:LEU:HD11	1:A:2614:ILE:HD13	1.91	0.52
1:A:2661:TRP:HB3	1:A:2664:PHE:HB2	1.92	0.52
1:A:2719:TYR:HD2	1:A:2953:LYS:HB3	1.74	0.52
1:A:3725:TYR:O	1:A:3729:MET:HG3	2.09	0.52
1:A:3955:MET:HE2	1:A:4015:GLU:HG2	1.92	0.52
1:A:4920:PHE:CD2	1:A:4925:ILE:HD11	2.45	0.52
1:B:22:LEU:HD21	1:B:37:LEU:HB3	1.92	0.52
1:B:348:VAL:HG13	1:B:357:LEU:HB3	1.92	0.52
1:B:580:GLU:HB2	1:B:620:LEU:HD13	1.91	0.52
1:B:1653:LEU:HD22	1:B:1707:LEU:HD11	1.90	0.52
1:B:2155:LEU:O	1:B:2159:LEU:HG	2.10	0.52
1:B:2584[B]:HIS:HD2	1:B:2625:ARG:HD3	1.74	0.52
1:B:2616:PRO:HG3	1:B:2650:ARG:HH12	1.73	0.52
1:B:3256:LEU:HB3	1:B:3266:MET:HE2	1.92	0.52
1:B:3364:ARG:O	1:B:3367:LYS:HG3	2.10	0.52
1:B:3753:PHE:CE2	1:B:4717:ASP:HA	2.44	0.52
1:D:403:MET:HE1	1:D:478:PHE:HZ	1.74	0.52
1:D:1260:MET:N	1:D:1260:MET:SD	2.83	0.52
1:D:2212:VAL:HG11	1:D:2256:TYR:CE2	2.45	0.52
1:D:2887:GLY:O	1:D:2891:LYS:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2902:HIS:HD2	1:D:2905:LEU:HG	1.74	0.52
1:D:3256:LEU:HB3	1:D:3266:MET:HE2	1.92	0.52
1:D:3825:GLU:OE1	1:D:3828:PHE:N	2.41	0.52
1:D:4223:ASN:HB3	1:D:4224:GLU:OE2	2.09	0.52
1:D:4712:PRO:HB2	1:D:4715:TYR:HB3	1.91	0.52
1:C:486:LEU:HD12	1:C:487:VAL:HG23	1.92	0.52
1:C:1954:ARG:O	1:C:1958:LEU:HD12	2.10	0.52
1:C:2005:GLN:HE22	1:C:3638:MET:HE2	1.74	0.52
1:C:2914:LYS:HD2	1:C:2915:GLU:HG3	1.92	0.52
1:C:2980:VAL:HB	1:C:2985:ARG:HA	1.92	0.52
1:C:3364:ARG:O	1:C:3367:LYS:HG3	2.10	0.52
1:C:4902:GLU:O	1:C:4913:ARG:NH1	2.39	0.52
1:C:4978:HIS:HA	1:C:4982:GLU:HG3	1.92	0.52
1:A:871:ARG:HD2	1:A:872:GLU:N	2.25	0.52
1:A:1075:PHE:HE2	1:A:1194:LEU:HB2	1.75	0.52
1:A:1260:MET:N	1:A:1260:MET:SD	2.83	0.52
1:A:1954:ARG:O	1:A:1958:LEU:HD12	2.10	0.52
1:A:2044:ILE:HG23	1:A:3667:HIS:CD2	2.44	0.52
1:A:2195:PRO:HA	1:A:2198:MET:SD	2.50	0.52
1:A:3410:PRO:O	1:A:3414:ARG:HG2	2.10	0.52
1:A:3933:PHE:HB3	1:A:3951:PHE:CZ	2.45	0.52
1:A:4007:SER:O	1:A:4010:ILE:HG12	2.09	0.52
1:A:4067:LYS:HA	1:A:4070:ASP:OD1	2.10	0.52
2:F:87:HIS:CD2	2:F:88:PRO:HD2	2.45	0.52
1:B:414:PHE:CE1	1:B:418:LEU:HD21	2.44	0.52
1:B:1171:SER:OG	1:B:1175:SER:O	2.24	0.52
1:B:1974:ARG:HE	1:B:3642:TYR:HB2	1.74	0.52
1:B:2107:GLN:NE2	1:B:3680:ALA:HA	2.25	0.52
1:B:2312:MET:HA	1:B:2315:ALA:HB3	1.92	0.52
1:B:3672:ARG:H	1:B:3672:ARG:HD3	1.74	0.52
1:B:3844:LEU:O	1:B:3848:GLU:HG2	2.09	0.52
1:D:601:ASP:OD1	1:D:1665:HIS:ND1	2.43	0.52
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.41	0.52
1:D:2719:TYR:HD2	1:D:2953:LYS:HB3	1.74	0.52
1:D:3187:ARG:NH2	1:D:3263:TYR:OH	2.38	0.52
1:D:3384:LYS:HG3	1:D:3386:GLU:HG3	1.92	0.52
1:D:3410:PRO:O	1:D:3414:ARG:HG2	2.10	0.52
1:D:3753:PHE:CE2	1:D:4717:ASP:HA	2.44	0.52
1:D:4157:ASP:O	1:D:4161:ARG:HG2	2.10	0.52
1:D:4583:SER:HB3	1:D:4631:PHE:CZ	2.45	0.52
1:C:303:ASP:H	1:C:306:LYS:HE2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:ALA:HA	1:C:377:ILE:HG12	1.92	0.52
1:C:403:MET:HE1	1:C:478:PHE:HZ	1.74	0.52
1:C:1171:SER:OG	1:C:1175:SER:O	2.24	0.52
1:C:2312:MET:HA	1:C:2315:ALA:HB3	1.92	0.52
1:C:2719:TYR:HD2	1:C:2953:LYS:HB3	1.74	0.52
1:C:3181:THR:C	1:C:3185:LYS:HZ2	2.18	0.52
1:C:3256:LEU:HB3	1:C:3266:MET:HE2	1.92	0.52
1:C:3725:TYR:O	1:C:3729:MET:HG3	2.09	0.52
1:A:601:ASP:OD1	1:A:1665:HIS:ND1	2.43	0.52
1:A:1226:PHE:O	1:A:1827:ARG:NH2	2.43	0.52
1:A:1475:THR:HA	1:A:1486:SER:HA	1.92	0.52
1:A:4583:SER:HB3	1:A:4631:PHE:CZ	2.45	0.52
1:A:4980:LEU:HB2	1:A:4981:GLU:OE2	2.09	0.52
1:B:1954:ARG:O	1:B:1958:LEU:HD12	2.10	0.52
1:B:2447:LYS:O	1:B:2451:LEU:HD12	2.09	0.52
1:B:2527:LEU:HD13	1:B:2578:MET:HE2	1.92	0.52
1:D:484:LEU:HD13	1:D:529:LEU:HD22	1.92	0.52
1:D:884:LEU:O	1:D:888:GLU:HG2	2.10	0.52
1:D:1291:LEU:HB3	1:D:1595:LEU:HD11	1.92	0.52
1:D:1690:ASP:OD2	1:D:1693:GLN:N	2.40	0.52
1:D:1854:PHE:CZ	1:D:1862:ILE:HD11	2.45	0.52
1:D:2520:HIS:HA	1:D:2523:ASP:OD2	2.09	0.52
1:D:2584[B]:HIS:HD2	1:D:2625:ARG:HD3	1.74	0.52
1:D:2752:ASP:HA	1:D:2755:ILE:HG13	1.91	0.52
1:D:3545:THR:OG1	1:D:3547:GLU:OE1	2.21	0.52
1:D:3725:TYR:O	1:D:3729:MET:HG3	2.09	0.52
1:C:884:LEU:O	1:C:888:GLU:HG2	2.10	0.52
1:C:971:ASP:OD2	1:C:974:HIS:ND1	2.33	0.52
1:C:979:PRO:O	1:C:983:THR:HG23	2.10	0.52
1:C:1260:MET:N	1:C:1260:MET:SD	2.83	0.52
1:C:2584[B]:HIS:HD2	1:C:2625:ARG:HD3	1.74	0.52
1:C:2616:PRO:HG3	1:C:2650:ARG:HH12	1.73	0.52
1:C:3529:ASP:HB3	1:C:3533:ILE:HD11	1.92	0.52
1:A:580:GLU:HB2	1:A:620:LEU:HD13	1.91	0.52
1:A:686:TRP:HA	1:A:779:PRO:HA	1.91	0.52
1:A:908:VAL:HG13	1:A:909:ASN:H	1.75	0.52
1:A:1291:LEU:HB3	1:A:1595:LEU:HD11	1.92	0.52
1:A:2155:LEU:O	1:A:2159:LEU:HG	2.10	0.52
1:A:2204:HIS:O	1:A:2208:MET:HG2	2.09	0.52
1:A:2224:ARG:HB2	1:A:2225:PHE:CE2	2.44	0.52
1:A:2858:GLN:HB2	1:A:2859:PRO:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2954:ARG:HH12	1:A:3031:ALA:HA	1.75	0.52
1:A:3108:GLU:HA	1:A:3111:ARG:HG2	1.92	0.52
1:A:3364:ARG:O	1:A:3367:LYS:HG3	2.10	0.52
1:A:3834:ALA:O	1:A:3838:THR:HG23	2.10	0.52
1:A:3916:ILE:H	1:A:3916:ILE:HD12	1.74	0.52
1:B:262:LEU:HD21	1:B:280:LEU:HD13	1.91	0.52
1:B:639:ASN:N	1:B:678:GLN:OE1	2.40	0.52
1:B:670:GLU:OE1	1:B:788:LYS:NZ	2.43	0.52
1:B:871:ARG:HD2	1:B:872:GLU:N	2.25	0.52
1:B:1226:PHE:O	1:B:1827:ARG:NH2	2.43	0.52
1:B:1260:MET:N	1:B:1260:MET:SD	2.83	0.52
1:B:1653:LEU:HA	1:B:1656:ARG:HD2	1.92	0.52
1:B:2005:GLN:HE22	1:B:3638:MET:HE2	1.74	0.52
1:B:2195:PRO:HA	1:B:2198:MET:SD	2.50	0.52
1:B:2212:VAL:HG11	1:B:2256:TYR:CE2	2.45	0.52
1:B:2244:ARG:HH21	1:B:2248:ARG:NH2	2.08	0.52
1:B:2622:LEU:O	1:B:2626:LEU:HD12	2.10	0.52
1:B:3053:ARG:HA	1:B:3056:LEU:HD13	1.92	0.52
1:B:3725:TYR:O	1:B:3729:MET:HG3	2.09	0.52
1:B:4208:PRO:O	1:B:4212:GLU:HG2	2.09	0.52
1:B:4246:GLN:O	1:B:4250:GLN:NE2	2.43	0.52
1:D:627:PRO:HA	1:D:629:ARG:HH21	1.75	0.52
1:D:908:VAL:HG13	1:D:909:ASN:H	1.75	0.52
1:D:2233:CYS:O	1:D:2234:ARG:C	2.52	0.52
1:D:3551:GLU:O	1:D:3555:ASN:ND2	2.43	0.52
1:D:4005:GLN:HA	1:D:4114:CYS:HA	1.92	0.52
1:D:4037:ASN:HD22	1:D:5035:GLN:HE22	1.58	0.52
1:C:22:LEU:HD21	1:C:37:LEU:HB3	1.92	0.52
1:C:413:GLN:HE22	1:C:437:PRO:HD3	1.74	0.52
1:C:1226:PHE:O	1:C:1827:ARG:NH2	2.43	0.52
1:C:1286:MET:HA	1:C:1286:MET:HE2	1.91	0.52
1:C:2330:ARG:HA	1:C:2333:ASP:OD2	2.10	0.52
1:C:3004:PRO:O	1:C:3008:GLN:HG3	2.10	0.52
1:C:4037:ASN:HD22	1:C:5035:GLN:HE22	1.58	0.52
1:C:4090:LYS:HD2	1:C:4123:ILE:HD11	1.90	0.52
1:C:4583:SER:HB3	1:C:4631:PHE:CZ	2.45	0.52
1:A:639:ASN:N	1:A:678:GLN:OE1	2.40	0.52
1:A:1153:ILE:HD13	1:A:1160:ILE:HG12	1.91	0.52
1:A:1854:PHE:CZ	1:A:1862:ILE:HD11	2.45	0.52
1:A:2008:MET:C	1:A:2008:MET:HE2	2.34	0.52
1:A:2358:ILE:HB	1:B:195:PHE:CG	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2560:PRO:O	1:A:2564:LYS:NZ	2.43	0.52
1:A:3775:ALA:HA	1:A:3778:MET:SD	2.50	0.52
2:E:49:MET:HE3	2:E:52:LYS:HB2	1.91	0.52
2:G:105:LYS:NZ	2:G:106:LEU:H	2.07	0.52
2:F:52:LYS:HE2	2:F:52:LYS:HA	1.91	0.52
1:B:403:MET:HE1	1:B:478:PHE:HZ	1.74	0.52
1:B:908:VAL:HG13	1:B:909:ASN:H	1.75	0.52
1:B:1293:LEU:HD21	1:B:1594:ARG:HD3	1.91	0.52
1:B:1805:GLU:OE1	1:B:1805:GLU:N	2.31	0.52
1:B:3435:PHE:HD1	1:B:3517:MET:HB2	1.75	0.52
1:B:3529:ASP:HB3	1:B:3533:ILE:HD11	1.92	0.52
1:B:4781:GLY:O	1:B:4785:THR:HG23	2.11	0.52
1:B:4910:GLU:HG2	1:B:4911:LEU:HD12	1.92	0.52
1:D:22:LEU:HD21	1:D:37:LEU:HB3	1.92	0.52
1:D:692:TYR:O	1:D:827:LYS:NZ	2.41	0.52
1:D:1422:ASP:N	1:D:1422:ASP:OD1	2.43	0.52
1:D:2195:PRO:HA	1:D:2198:MET:SD	2.50	0.52
1:D:2244:ARG:HH21	1:D:2248:ARG:NH2	2.08	0.52
1:D:2281:ILE:HD12	1:D:2282:ASP:H	1.74	0.52
1:D:2914:LYS:HD2	1:D:2915:GLU:HG3	1.92	0.52
1:D:3215:ALA:O	1:D:3220:THR:OG1	2.25	0.52
1:D:3250:MET:HE1	1:D:3277:LEU:HD22	1.91	0.52
1:D:3900:GLN:NE2	1:D:3968:TYR:O	2.43	0.52
1:D:3933:PHE:HB3	1:D:3951:PHE:CZ	2.45	0.52
1:D:4090:LYS:HD2	1:D:4123:ILE:HD11	1.90	0.52
1:D:4243:PHE:HA	1:D:4246:GLN:OE1	2.10	0.52
1:C:924:MET:C	1:C:924:MET:HE2	2.34	0.52
1:C:2195:PRO:HA	1:C:2198:MET:SD	2.50	0.52
1:C:2212:VAL:HG11	1:C:2256:TYR:CE2	2.45	0.52
1:C:2281:ILE:HD12	1:C:2282:ASP:H	1.74	0.52
1:C:2552:ARG:NH1	1:C:2599:GLN:OE1	2.43	0.52
1:C:2622:LEU:O	1:C:2626:LEU:HD12	2.10	0.52
1:C:4920:PHE:CD2	1:C:4925:ILE:HD11	2.45	0.52
1:A:659:TYR:O	1:A:662:TRP:NE1	2.43	0.51
1:A:1293:LEU:HD21	1:A:1594:ARG:HD3	1.91	0.51
1:A:1868:PRO:O	1:A:1872:THR:HG23	2.10	0.51
1:A:2520:HIS:HA	1:A:2523:ASP:OD2	2.09	0.51
1:A:2740:VAL:HG12	1:A:2818:ALA:HB1	1.90	0.51
2:E:40:ARG:NH2	2:E:102:GLU:HG2	2.25	0.51
2:H:52:LYS:HA	2:H:52:LYS:HE2	1.91	0.51
1:B:1153:ILE:HD13	1:B:1160:ILE:HG12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1422:ASP:OD1	1:B:1422:ASP:N	2.43	0.51
1:B:2719:TYR:HD2	1:B:2953:LYS:HB3	1.74	0.51
1:B:3835:LEU:HD22	1:B:3880:PHE:HZ	1.75	0.51
1:B:4869:GLU:OE1	1:B:4869:GLU:N	2.29	0.51
1:B:4983:HIS:O	3:B:5301:ATP:N6	2.43	0.51
1:D:278:GLN:HA	1:D:328:LYS:HZ3	1.74	0.51
1:D:670:GLU:OE1	1:D:788:LYS:NZ	2.43	0.51
1:D:1153:ILE:HD13	1:D:1160:ILE:HG12	1.91	0.51
1:D:1431:THR:HG22	1:D:1431:THR:O	2.11	0.51
1:D:2107:GLN:NE2	1:D:3683:GLN:OE1	2.30	0.51
1:D:2954:ARG:HH12	1:D:3031:ALA:HA	1.75	0.51
1:D:3364:ARG:O	1:D:3367:LYS:HG3	2.10	0.51
1:D:3756:LYS:HG2	1:D:3760:LYS:HE3	1.91	0.51
1:D:3834:ALA:O	1:D:3838:THR:HG23	2.10	0.51
1:D:4978:HIS:HA	1:D:4982:GLU:HG3	1.92	0.51
1:C:970:LEU:H	1:C:970:LEU:HD12	1.75	0.51
1:C:1475:THR:HA	1:C:1486:SER:HA	1.92	0.51
1:C:1868:PRO:O	1:C:1872:THR:HG23	2.10	0.51
1:C:2044:ILE:HG23	1:C:3667:HIS:CD2	2.44	0.51
1:C:2155:LEU:O	1:C:2159:LEU:HG	2.10	0.51
1:C:2224:ARG:HB2	1:C:2225:PHE:CE2	2.44	0.51
1:C:2412:GLU:HG2	1:C:2414:ASN:H	1.76	0.51
1:C:3215:ALA:O	1:C:3220:THR:OG1	2.25	0.51
1:A:283:ARG:HG2	1:A:283:ARG:HH11	1.75	0.51
1:A:414:PHE:CE1	1:A:418:LEU:HD21	2.44	0.51
1:A:1974:ARG:HE	1:A:3642:TYR:HB2	1.75	0.51
1:A:2005:GLN:HE22	1:A:3638:MET:HE2	1.74	0.51
1:A:2129:ASP:O	1:A:2133:GLU:HG3	2.10	0.51
1:A:3529:ASP:HB3	1:A:3533:ILE:HD11	1.92	0.51
1:A:3900:GLN:NE2	1:A:3968:TYR:O	2.43	0.51
1:A:4781:GLY:O	1:A:4785:THR:HG23	2.11	0.51
1:A:4910:GLU:HG2	1:A:4911:LEU:HD12	1.92	0.51
1:B:2008:MET:C	1:B:2008:MET:HE2	2.34	0.51
1:B:2044:ILE:HG23	1:B:3667:HIS:CD2	2.44	0.51
1:B:2412:GLU:HG2	1:B:2414:ASN:H	1.76	0.51
1:B:2914:LYS:HD2	1:B:2915:GLU:HG3	1.92	0.51
1:B:3553:LEU:HD13	1:B:3593:VAL:HB	1.92	0.51
1:B:4243:PHE:HA	1:B:4246:GLN:OE1	2.10	0.51
1:D:686:TRP:HA	1:D:779:PRO:HA	1.91	0.51
1:D:1220:GLN:CD	1:C:3522:LEU:HD22	2.34	0.51
1:D:1653:LEU:HA	1:D:1656:ARG:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3346:VAL:HG11	1:D:3411:LEU:HB2	1.93	0.51
1:D:3822:ASP:O	1:D:3824:LYS:NZ	2.30	0.51
1:D:4826:ILE:O	1:D:4830:VAL:HG23	2.10	0.51
1:C:874:LEU:HD22	1:C:1049:TYR:CD2	2.45	0.51
1:C:1974:ARG:HE	1:C:3642:TYR:HB2	1.75	0.51
1:C:2008:MET:HE2	1:C:2008:MET:C	2.35	0.51
1:C:2107:GLN:NE2	1:C:3683:GLN:OE1	2.31	0.51
1:C:2902:HIS:HD2	1:C:2905:LEU:HG	1.74	0.51
1:C:4824:ARG:HA	1:C:4827:LEU:HG	1.91	0.51
1:A:28:VAL:N	1:A:31:GLU:O	2.31	0.51
1:A:1431:THR:HG22	1:A:1431:THR:O	2.11	0.51
1:A:2212:VAL:HG11	1:A:2256:TYR:CE2	2.45	0.51
1:A:2259:GLU:HB2	1:A:2297:LYS:HZ3	1.74	0.51
1:A:2330:ARG:HA	1:A:2333:ASP:OD2	2.10	0.51
1:A:2886:TRP:CD1	1:A:2889:LYS:HZ2	2.28	0.51
1:A:3228:ALA:HA	1:A:3232:LEU:HD23	1.91	0.51
1:A:3522:LEU:HD22	1:B:1220:GLN:OE1	2.11	0.51
1:A:3553:LEU:HD13	1:A:3593:VAL:HB	1.92	0.51
1:A:3753:PHE:CE2	1:A:4717:ASP:HA	2.44	0.51
1:A:4248:ALA:O	1:A:4252:SER:HB3	2.10	0.51
1:A:4864:ASN:HB2	1:A:4874:MET:HE1	1.93	0.51
1:A:4954:MET:HA	1:A:4954:MET:HE2	1.92	0.51
1:A:4983:HIS:O	3:A:5301:ATP:N6	2.43	0.51
1:B:484:LEU:HD13	1:B:529:LEU:HD22	1.91	0.51
1:B:1868:PRO:O	1:B:1872:THR:HG23	2.10	0.51
1:B:1935:VAL:HA	1:B:1938:GLN:OE1	2.11	0.51
1:B:2754:PHE:CZ	1:B:2930:LEU:HG	2.46	0.51
1:B:2902:HIS:HD2	1:B:2905:LEU:HG	1.74	0.51
1:B:3228:ALA:HA	1:B:3232:LEU:HD23	1.91	0.51
1:B:3825:GLU:OE1	1:B:3828:PHE:N	2.41	0.51
1:B:3933:PHE:HB3	1:B:3951:PHE:CZ	2.45	0.51
1:B:4017:LEU:HD22	1:B:4139:ILE:HG21	1.93	0.51
1:B:4037:ASN:HD22	1:B:5035:GLN:HE22	1.58	0.51
1:B:4952:GLU:OE2	1:B:4956:THR:OG1	2.28	0.51
1:D:119:SER:O	1:D:136:GLY:N	2.33	0.51
1:D:639:ASN:N	1:D:678:GLN:OE1	2.40	0.51
1:D:651:GLY:O	1:D:658:GLN:NE2	2.42	0.51
1:D:1640:HIS:ND1	1:D:1646:ARG:O	2.44	0.51
1:D:1868:PRO:O	1:D:1872:THR:HG23	2.10	0.51
1:D:2155:LEU:O	1:D:2159:LEU:HG	2.10	0.51
1:D:2330:ARG:HA	1:D:2333:ASP:OD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2583:LEU:HD11	1:D:2614:ILE:HD13	1.91	0.51
1:D:2661:TRP:HB3	1:D:2664:PHE:HB2	1.92	0.51
1:D:4864:ASN:HB2	1:D:4874:MET:HE1	1.93	0.51
1:D:4983:HIS:O	3:D:5301:ATP:N6	2.43	0.51
1:C:437:PRO:HB2	1:C:440:ALA:HB3	1.92	0.51
1:C:627:PRO:HA	1:C:629:ARG:HH21	1.75	0.51
1:C:1854:PHE:CZ	1:C:1862:ILE:HD11	2.45	0.51
1:C:2449:GLU:HA	1:C:2452:ARG:HE	1.76	0.51
1:C:2661:TRP:HB3	1:C:2664:PHE:HB2	1.92	0.51
1:C:2752:ASP:HA	1:C:2755:ILE:HG13	1.92	0.51
1:C:3553:LEU:HD13	1:C:3593:VAL:HB	1.92	0.51
1:C:3753:PHE:CE2	1:C:4717:ASP:HA	2.44	0.51
1:A:348:VAL:HG13	1:A:357:LEU:HB3	1.92	0.51
1:A:1478:ASP:OD1	1:A:1479:GLU:N	2.40	0.51
1:A:2107:GLN:NE2	1:A:3680:ALA:HA	2.25	0.51
1:A:2349:ASN:O	1:A:2353:VAL:HG23	2.11	0.51
1:A:2530:MET:SD	1:A:2531:ARG:NH1	2.82	0.51
1:A:2559:LEU:HB3	1:A:2606:CYS:SG	2.50	0.51
1:A:2754:PHE:CZ	1:A:2930:LEU:HG	2.46	0.51
1:A:3346:VAL:HG11	1:A:3411:LEU:HB2	1.93	0.51
1:A:3672:ARG:HD3	1:A:3672:ARG:H	1.74	0.51
2:H:56:ILE:HD12	1:D:1783:VAL:O	2.11	0.51
1:B:218:HIS:HB3	1:B:392:ARG:HH12	1.74	0.51
1:B:884:LEU:O	1:B:888:GLU:HG2	2.10	0.51
1:B:1160:ILE:HB	1:B:1179:PHE:HD2	1.76	0.51
1:B:2129:ASP:O	1:B:2133:GLU:HG3	2.10	0.51
1:B:2291:GLN:HB3	1:B:2293:GLN:CD	2.36	0.51
1:B:2752:ASP:HA	1:B:2755:ILE:HG13	1.92	0.51
1:B:3756:LYS:HG2	1:B:3760:LYS:HE3	1.91	0.51
1:D:871:ARG:HD2	1:D:872:GLU:N	2.25	0.51
1:D:2005:GLN:HE22	1:D:3638:MET:HE2	1.74	0.51
1:D:2622:LEU:O	1:D:2626:LEU:HD12	2.10	0.51
1:D:3000:LYS:HD2	1:D:3000:LYS:N	2.26	0.51
1:D:3004:PRO:O	1:D:3008:GLN:HG3	2.11	0.51
1:D:3019:SER:HA	1:D:3025:LEU:H	1.76	0.51
1:D:3592:ILE:O	1:D:3595:ARG:HG3	2.09	0.51
1:D:4246:GLN:O	1:D:4250:GLN:NE2	2.43	0.51
1:D:4952:GLU:OE2	1:D:4956:THR:OG1	2.28	0.51
1:C:139:GLU:OE1	1:C:139:GLU:N	2.40	0.51
1:C:218:HIS:HB3	1:C:392:ARG:NH1	2.24	0.51
1:C:294:THR:N	1:C:298:GLY:O	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:686:TRP:HA	1:C:779:PRO:HA	1.91	0.51
1:C:1422:ASP:N	1:C:1422:ASP:OD1	2.43	0.51
1:C:2189:LYS:HA	1:C:2192:TYR:HD2	1.75	0.51
1:C:2233:CYS:O	1:C:2234:ARG:C	2.52	0.51
1:C:2530:MET:SD	1:C:2531:ARG:NH1	2.82	0.51
1:C:2638:LYS:O	1:C:2642:LYS:HG3	2.10	0.51
1:C:2824:GLU:N	1:C:2824:GLU:OE2	2.44	0.51
1:C:2964:LEU:HD12	1:C:3042:LEU:HD21	1.93	0.51
1:C:3604:TYR:HA	1:C:3607:GLU:CD	2.35	0.51
1:C:3834:ALA:O	1:C:3838:THR:HG23	2.10	0.51
1:C:4954:MET:HE2	1:C:4954:MET:HA	1.92	0.51
1:A:218:HIS:HB3	1:A:392:ARG:HH12	1.74	0.51
1:A:928:THR:O	1:A:932:LEU:HG	2.11	0.51
1:A:1286:MET:HE2	1:A:1286:MET:HA	1.91	0.51
1:A:2244:ARG:HH21	1:A:2248:ARG:NH2	2.08	0.51
1:A:2824:GLU:OE2	1:A:2824:GLU:N	2.44	0.51
1:A:3004:PRO:O	1:A:3008:GLN:HG3	2.10	0.51
1:A:3788:GLY:N	1:A:3831:SER:OG	2.39	0.51
1:A:3976:ASN:O	1:A:3980:LEU:HG	2.11	0.51
1:B:221:ARG:NH1	1:B:253:CYS:O	2.44	0.51
1:B:1431:THR:O	1:B:1431:THR:HG22	2.11	0.51
1:B:1712:TYR:CG	1:B:1840:PRO:HB3	2.46	0.51
1:B:2441:HIS:O	1:B:2442:LEU:HB3	2.11	0.51
1:B:2621:HIS:HA	1:B:2624:ARG:NE	2.26	0.51
1:B:3215:ALA:O	1:B:3220:THR:OG1	2.25	0.51
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.10	0.51
1:D:322:LYS:NZ	1:D:354:GLY:O	2.41	0.51
1:D:819:GLU:OE1	1:D:819:GLU:N	2.42	0.51
1:D:2107:GLN:NE2	1:D:3680:ALA:HA	2.25	0.51
1:D:2768:PHE:O	1:D:2772:GLN:HG3	2.11	0.51
1:D:3553:LEU:HD13	1:D:3593:VAL:HB	1.92	0.51
1:D:4824:ARG:HA	1:D:4827:LEU:HG	1.91	0.51
1:D:4910:GLU:HG2	1:D:4911:LEU:HD12	1.92	0.51
1:D:4920:PHE:CD2	1:D:4925:ILE:HD11	2.45	0.51
1:C:66:CYS:O	1:C:111:HIS:ND1	2.41	0.51
1:C:171:LEU:O	1:C:179:TYR:HA	2.11	0.51
1:C:341:TYR:CZ	1:C:392:ARG:HD3	2.46	0.51
1:C:483:MET:HA	1:C:486:LEU:HG	1.92	0.51
1:C:580:GLU:HB2	1:C:620:LEU:HD13	1.91	0.51
1:C:1075:PHE:HE2	1:C:1194:LEU:HB2	1.74	0.51
1:C:2768:PHE:O	1:C:2772:GLN:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3103:ILE:O	1:C:3107:VAL:HG23	2.11	0.51
1:C:3775:ALA:HA	1:C:3778:MET:SD	2.50	0.51
1:C:4781:GLY:O	1:C:4785:THR:HG23	2.11	0.51
1:A:66:CYS:O	1:A:111:HIS:ND1	2.41	0.51
1:A:118:LEU:HA	1:A:137:LEU:HA	1.91	0.51
1:A:321:GLU:OE2	1:A:321:GLU:N	2.44	0.51
1:A:950:LEU:HD22	1:A:970:LEU:HD23	1.93	0.51
1:A:970:LEU:HD12	1:A:970:LEU:H	1.75	0.51
1:A:2312:MET:HA	1:A:2315:ALA:HB3	1.92	0.51
1:A:2321:ILE:HB	1:A:2418:LEU:HD11	1.93	0.51
1:A:2622:LEU:O	1:A:2626:LEU:HD12	2.10	0.51
1:A:3000:LYS:HD2	1:A:3000:LYS:N	2.26	0.51
1:A:3435:PHE:HD1	1:A:3517:MET:HB2	1.75	0.51
1:A:4005:GLN:HA	1:A:4114:CYS:HA	1.92	0.51
1:A:4680:LYS:O	1:A:4685:GLY:N	2.31	0.51
1:A:4908:GLU:HG2	1:A:4909:TYR:HD1	1.76	0.51
2:E:2:VAL:HG23	2:E:80:TYR:HD2	1.75	0.51
1:B:118:LEU:HA	1:B:137:LEU:HA	1.91	0.51
1:B:171:LEU:O	1:B:179:TYR:HA	2.11	0.51
1:B:483:MET:HA	1:B:486:LEU:HG	1.92	0.51
1:B:928:THR:O	1:B:932:LEU:HG	2.11	0.51
1:B:2349:ASN:O	1:B:2353:VAL:HG23	2.11	0.51
1:B:2423:MET:HE3	1:B:2498:HIS:ND1	2.26	0.51
1:B:2552:ARG:NH1	1:B:2599:GLN:OE1	2.43	0.51
1:B:3181:THR:C	1:B:3185:LYS:HZ2	2.18	0.51
1:B:3551:GLU:O	1:B:3555:ASN:ND2	2.43	0.51
1:B:3775:ALA:HA	1:B:3778:MET:SD	2.50	0.51
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.46	0.51
1:B:4005:GLN:HA	1:B:4114:CYS:HA	1.92	0.51
1:B:4826:ILE:O	1:B:4830:VAL:HG23	2.10	0.51
1:B:4920:PHE:CD2	1:B:4925:ILE:HD11	2.45	0.51
1:B:4968:PHE:O	1:B:4974:GLY:HA3	2.09	0.51
1:D:171:LEU:O	1:D:179:TYR:HA	2.11	0.51
1:D:283:ARG:HG2	1:D:283:ARG:HH11	1.75	0.51
1:D:659:TYR:O	1:D:662:TRP:NE1	2.43	0.51
1:D:1935:VAL:HA	1:D:1938:GLN:OE1	2.11	0.51
1:D:2349:ASN:O	1:D:2353:VAL:HG23	2.11	0.51
1:D:2412:GLU:HG2	1:D:2414:ASN:H	1.76	0.51
1:D:2552:ARG:NH1	1:D:2599:GLN:OE1	2.43	0.51
1:D:3066:ASN:O	1:D:3070:ILE:HG13	2.11	0.51
1:D:3527:PRO:HB2	1:D:3573:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4017:LEU:HD22	1:D:4139:ILE:HG21	1.92	0.51
1:C:497:TYR:HA	1:C:502:HIS:HE1	1.73	0.51
1:C:659:TYR:O	1:C:662:TRP:NE1	2.43	0.51
1:C:928:THR:O	1:C:932:LEU:HG	2.11	0.51
1:C:1206:GLN:HE22	1:C:1233:PRO:HG3	1.74	0.51
1:C:1842:LEU:O	1:C:1846:SER:OG	2.29	0.51
1:C:2198:MET:HB3	1:C:2203:MET:SD	2.50	0.51
1:C:2560:PRO:O	1:C:2564:LYS:NZ	2.43	0.51
1:C:2954:ARG:HH12	1:C:3031:ALA:HA	1.75	0.51
1:C:3000:LYS:N	1:C:3000:LYS:HD2	2.26	0.51
1:C:3108:GLU:HA	1:C:3111:ARG:HG2	1.92	0.51
1:C:4067:LYS:HA	1:C:4070:ASP:OD1	2.10	0.51
1:C:4243:PHE:HA	1:C:4246:GLN:OE1	2.10	0.51
1:C:4980:LEU:HB2	1:C:4981:GLU:OE2	2.09	0.51
1:A:765:GLN:H	1:A:765:GLN:CD	2.19	0.51
1:A:3103:ILE:O	1:A:3107:VAL:HG23	2.11	0.51
1:A:3138:PRO:O	1:A:3141:THR:OG1	2.28	0.51
1:A:3384:LYS:HG3	1:A:3386:GLU:HG3	1.92	0.51
1:A:3551:GLU:O	1:A:3555:ASN:ND2	2.43	0.51
1:A:4157:ASP:O	1:A:4161:ARG:HG2	2.10	0.51
1:A:4243:PHE:HA	1:A:4246:GLN:OE1	2.10	0.51
1:A:4246:GLN:O	1:A:4250:GLN:NE2	2.43	0.51
1:A:4826:ILE:O	1:A:4830:VAL:HG23	2.10	0.51
2:G:94:HIS:O	2:G:94:HIS:CG	2.64	0.51
1:B:601:ASP:OD1	1:B:1665:HIS:ND1	2.43	0.51
1:B:1640:HIS:ND1	1:B:1646:ARG:O	2.44	0.51
1:B:1663:HIS:NE2	1:B:1711:TYR:OH	2.42	0.51
1:B:2330:ARG:HA	1:B:2333:ASP:OD2	2.10	0.51
1:B:2768:PHE:O	1:B:2772:GLN:HG3	2.11	0.51
1:B:3604:TYR:HA	1:B:3607:GLU:CD	2.35	0.51
1:B:3780:LEU:HD11	1:B:3816:MET:HB3	1.93	0.51
1:B:4248:ALA:O	1:B:4252:SER:HB3	2.10	0.51
1:D:341:TYR:CZ	1:D:392:ARG:HD3	2.46	0.51
1:D:1226:PHE:O	1:D:1827:ARG:NH2	2.43	0.51
1:D:1733:GLU:OE1	1:D:1733:GLU:N	2.27	0.51
1:D:2008:MET:C	1:D:2008:MET:HE2	2.35	0.51
1:D:2090:LYS:NZ	1:D:2092:GLN:HG2	2.26	0.51
1:D:2441:HIS:O	1:D:2442:LEU:HB3	2.11	0.51
1:D:2530:MET:SD	1:D:2531:ARG:NH1	2.82	0.51
1:D:2824:GLU:OE2	1:D:2824:GLU:N	2.44	0.51
1:D:2886:TRP:CD1	1:D:2889:LYS:HZ1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2964:LEU:HD12	1:D:3042:LEU:HD21	1.93	0.51
1:D:3775:ALA:HA	1:D:3778:MET:SD	2.50	0.51
1:D:4067:LYS:HA	1:D:4070:ASP:OD1	2.10	0.51
1:D:4954:MET:HE2	1:D:4954:MET:HA	1.92	0.51
1:C:322:LYS:NZ	1:C:354:GLY:O	2.41	0.51
1:C:1543:GLU:O	1:C:1546:THR:OG1	2.19	0.51
1:C:2244:ARG:HH21	1:C:2248:ARG:NH2	2.08	0.51
1:C:2376:LEU:O	1:C:2380:ILE:HG12	2.11	0.51
1:C:3250:MET:HE1	1:C:3277:LEU:HD22	1.91	0.51
1:C:4733:GLY:O	1:C:4737:ILE:HG12	2.11	0.51
1:C:4983:HIS:O	3:C:5301:ATP:N6	2.43	0.51
1:A:365:LYS:NZ	1:A:369:LEU:HG	2.26	0.51
1:A:437:PRO:HB2	1:A:440:ALA:HB3	1.92	0.51
1:A:1434:TYR:HE1	1:A:1517:GLY:HA3	1.75	0.51
1:A:1987:SER:O	1:A:1991:THR:OG1	2.20	0.51
1:A:2412:GLU:HG2	1:A:2414:ASN:H	1.76	0.51
1:A:2441:HIS:O	1:A:2442:LEU:HB3	2.11	0.51
1:A:2449:GLU:HA	1:A:2452:ARG:HE	1.76	0.51
1:A:3236:VAL:HA	1:A:3239:MET:HE3	1.91	0.51
1:A:3250:MET:HE1	1:A:3277:LEU:HD22	1.91	0.51
1:A:3527:PRO:HB2	1:A:3573:MET:SD	2.51	0.51
1:A:3604:TYR:HA	1:A:3607:GLU:CD	2.35	0.51
1:A:3940:LYS:O	1:A:4002:LYS:NZ	2.44	0.51
1:A:3994:HIS:HD2	1:A:3998:HIS:CE1	2.29	0.51
1:B:659:TYR:O	1:B:662:TRP:NE1	2.43	0.51
1:B:874:LEU:HD22	1:B:1049:TYR:CD2	2.45	0.51
1:B:1022:VAL:HG22	1:B:1023:PRO:HD2	1.93	0.51
1:B:1206:GLN:HE22	1:B:1233:PRO:HG3	1.74	0.51
1:B:2189:LYS:HA	1:B:2192:TYR:HD2	1.75	0.51
1:B:2463:LEU:HA	1:B:2466:LEU:HD12	1.93	0.51
1:B:2559:LEU:HB3	1:B:2606:CYS:SG	2.50	0.51
1:B:2824:GLU:N	1:B:2824:GLU:OE2	2.44	0.51
1:B:3940:LYS:O	1:B:4002:LYS:NZ	2.44	0.51
1:B:4582:VAL:HG22	1:C:4877:ASP:HA	1.93	0.51
1:D:218:HIS:HB3	1:D:392:ARG:HH12	1.74	0.51
1:D:221:ARG:NH1	1:D:253:CYS:O	2.44	0.51
1:D:413:GLN:HE22	1:D:437:PRO:HD3	1.75	0.51
1:D:615:ARG:NH1	1:D:1678:ASN:HA	2.26	0.51
1:D:772:ASN:ND2	1:D:1470:ARG:HD2	2.26	0.51
1:D:2129:ASP:O	1:D:2133:GLU:HG3	2.10	0.51
1:D:2527:LEU:HD13	1:D:2578:MET:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3994:HIS:HD2	1:D:3998:HIS:CE1	2.29	0.51
1:D:4781:GLY:O	1:D:4785:THR:HG23	2.11	0.51
1:C:1640:HIS:ND1	1:C:1646:ARG:O	2.44	0.51
1:C:2291:GLN:HB3	1:C:2293:GLN:CD	2.36	0.51
1:C:2349:ASN:O	1:C:2353:VAL:HG23	2.11	0.51
1:C:3551:GLU:O	1:C:3555:ASN:ND2	2.43	0.51
1:C:3563:VAL:HG21	1:C:3573:MET:CG	2.39	0.51
1:C:3965:LEU:HA	1:C:3968:TYR:CD2	2.46	0.51
1:C:4952:GLU:OE2	1:C:4956:THR:OG1	2.28	0.51
1:A:221:ARG:NH1	1:A:253:CYS:O	2.44	0.51
1:A:451:TYR:CE2	1:A:474:ARG:HD3	2.46	0.51
1:A:460:GLN:O	1:A:464:LYS:HB2	2.10	0.51
1:A:627:PRO:HA	1:A:629:ARG:HH21	1.75	0.51
1:A:772:ASN:ND2	1:A:1470:ARG:HD2	2.26	0.51
1:A:1160:ILE:HB	1:A:1179:PHE:HD2	1.76	0.51
1:A:1166:GLY:HA2	1:A:1217:CYS:SG	2.51	0.51
1:A:1252:HIS:CE1	1:A:1254:HIS:HB2	2.46	0.51
1:A:1653:LEU:HA	1:A:1656:ARG:HD2	1.92	0.51
1:A:1663:HIS:NE2	1:A:1711:TYR:OH	2.42	0.51
1:A:1935:VAL:HA	1:A:1938:GLN:OE1	2.11	0.51
1:A:2332:LEU:O	1:A:2432:LEU:HD21	2.11	0.51
1:A:2552:ARG:NH1	1:A:2599:GLN:OE1	2.43	0.51
1:A:4037:ASN:HD22	1:A:5035:GLN:HE22	1.58	0.51
1:B:984:LEU:HA	1:B:987:ARG:NE	2.26	0.51
1:B:1252:HIS:CE1	1:B:1254:HIS:HB2	2.46	0.51
1:B:1475:THR:HA	1:B:1486:SER:HA	1.92	0.51
1:B:3900:GLN:NE2	1:B:3968:TYR:O	2.43	0.51
1:B:4240:ASP:OD1	1:B:4675:LYS:NZ	2.35	0.51
1:B:4908:GLU:HG2	1:B:4909:TYR:HD1	1.76	0.51
1:D:1075:PHE:HE2	1:D:1194:LEU:HB2	1.75	0.51
1:D:1434:TYR:HE1	1:D:1517:GLY:HA3	1.75	0.51
1:D:2376:LEU:O	1:D:2380:ILE:HG12	2.11	0.51
1:D:2449:GLU:HA	1:D:2452:ARG:HE	1.76	0.51
1:D:2588:ARG:NH2	1:D:2591:ARG:HG3	2.26	0.51
1:D:3053:ARG:HA	1:D:3056:LEU:HD13	1.92	0.51
1:D:3432:GLU:O	1:D:3436:ARG:HG3	2.11	0.51
1:D:3529:ASP:HB3	1:D:3533:ILE:HD11	1.92	0.51
1:D:3976:ASN:O	1:D:3980:LEU:HG	2.11	0.51
1:D:4908:GLU:HG2	1:D:4909:TYR:HD1	1.76	0.51
1:C:484:LEU:HD13	1:C:529:LEU:HD22	1.91	0.51
1:C:651:GLY:O	1:C:658:GLN:NE2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2463:LEU:HA	1:C:2466:LEU:HD12	1.93	0.51
1:C:3560:GLN:H	1:C:3560:GLN:CD	2.18	0.51
1:C:3900:GLN:NE2	1:C:3968:TYR:O	2.43	0.51
1:C:4910:GLU:HG2	1:C:4911:LEU:HD12	1.92	0.51
1:A:615:ARG:NH1	1:A:1678:ASN:HA	2.26	0.51
1:A:874:LEU:HD22	1:A:1049:TYR:CD2	2.45	0.51
1:A:879:HIS:NE2	1:A:918:ARG:HA	2.26	0.51
1:A:884:LEU:O	1:A:888:GLU:HG2	2.10	0.51
1:A:984:LEU:HA	1:A:987:ARG:NE	2.26	0.51
1:A:2107:GLN:NE2	1:A:3683:GLN:OE1	2.31	0.51
1:A:2638:LYS:O	1:A:2642:LYS:HG3	2.11	0.51
1:A:3965:LEU:HA	1:A:3968:TYR:CD2	2.46	0.51
1:A:3986:TRP:CD1	1:A:3986:TRP:H	2.29	0.51
2:F:40:ARG:HD2	2:F:40:ARG:N	2.26	0.51
1:B:365:LYS:NZ	1:B:369:LEU:HG	2.26	0.51
1:B:404:ILE:HG23	1:B:483:MET:HE2	1.93	0.51
1:B:437:PRO:HB2	1:B:440:ALA:HB3	1.92	0.51
1:B:460:GLN:O	1:B:464:LYS:HB2	2.10	0.51
1:B:1075:PHE:HE2	1:B:1194:LEU:HB2	1.75	0.51
1:B:1106:ARG:HH21	1:B:1120:LEU:HB3	1.76	0.51
1:B:1253:PRO:O	1:B:1275:ARG:NH1	2.34	0.51
1:B:2321:ILE:HB	1:B:2418:LEU:HD11	1.93	0.51
1:B:2604:GLU:O	1:B:2608:MET:HG2	2.11	0.51
1:B:2661:TRP:HB3	1:B:2664:PHE:HB2	1.92	0.51
1:B:3103:ILE:O	1:B:3107:VAL:HG23	2.11	0.51
1:B:4978:HIS:HA	1:B:4982:GLU:HG3	1.92	0.51
1:D:365:LYS:NZ	1:D:369:LEU:HG	2.26	0.51
1:D:1712:TYR:CG	1:D:1840:PRO:HB3	2.46	0.51
1:D:2560:PRO:O	1:D:2564:LYS:NZ	2.43	0.51
1:C:601:ASP:OD1	1:C:1665:HIS:ND1	2.43	0.51
1:C:772:ASN:ND2	1:C:1470:ARG:HD2	2.26	0.51
1:C:1252:HIS:CE1	1:C:1254:HIS:HB2	2.46	0.51
1:C:3019:SER:HA	1:C:3025:LEU:H	1.76	0.51
1:C:3053:ARG:HA	1:C:3056:LEU:HD13	1.92	0.51
1:C:3346:VAL:HG11	1:C:3411:LEU:HB2	1.93	0.51
1:C:3410:PRO:O	1:C:3414:ARG:HG2	2.10	0.51
1:C:3835:LEU:HD22	1:C:3880:PHE:HZ	1.75	0.51
1:C:4246:GLN:O	1:C:4250:GLN:NE2	2.43	0.51
1:C:4735:GLU:OE1	1:C:4735:GLU:N	2.39	0.51
1:A:670:GLU:OE1	1:A:788:LYS:NZ	2.43	0.50
1:A:1022:VAL:HG22	1:A:1023:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1854:PHE:CE1	1:A:1858:ASP:HB3	2.46	0.50
1:A:2004:GLU:N	1:A:2004:GLU:OE1	2.41	0.50
1:A:2090:LYS:NZ	1:A:2092:GLN:HG2	2.26	0.50
1:A:2752:ASP:HA	1:A:2755:ILE:HG13	1.92	0.50
1:A:3019:SER:HA	1:A:3025:LEU:H	1.76	0.50
1:A:3181:THR:C	1:A:3185:LYS:HZ2	2.18	0.50
1:A:3432:GLU:O	1:A:3436:ARG:HG3	2.11	0.50
1:A:3756:LYS:HG2	1:A:3760:LYS:HE3	1.91	0.50
1:B:692:TYR:O	1:B:827:LYS:NZ	2.41	0.50
1:B:1131:ARG:NH1	1:B:1138:PRO:O	2.44	0.50
1:B:1854:PHE:CE1	1:B:1858:ASP:HB3	2.46	0.50
1:B:2437:ALA:HB2	1:B:2509:VAL:HG22	1.93	0.50
1:B:3004:PRO:O	1:B:3008:GLN:HG3	2.10	0.50
1:B:3547:GLU:H	1:B:3547:GLU:CD	2.19	0.50
1:B:3943:ILE:O	1:B:3948:LYS:NZ	2.41	0.50
1:B:3994:HIS:HD2	1:B:3998:HIS:CE1	2.29	0.50
1:B:4902:GLU:O	1:B:4913:ARG:NH1	2.39	0.50
1:D:1160:ILE:HB	1:D:1179:PHE:HD2	1.75	0.50
1:D:1166:GLY:HA2	1:D:1217:CYS:SG	2.51	0.50
1:D:1252:HIS:CE1	1:D:1254:HIS:HB2	2.46	0.50
1:D:1954:ARG:O	1:D:1958:LEU:HD12	2.10	0.50
1:D:2332:LEU:O	1:D:2432:LEU:HD21	2.11	0.50
1:D:2559:LEU:HB3	1:D:2606:CYS:SG	2.50	0.50
1:D:3103:ILE:O	1:D:3107:VAL:HG23	2.11	0.50
1:D:3108:GLU:HA	1:D:3111:ARG:HG2	1.92	0.50
1:D:3458:PHE:HA	1:D:3461:GLN:NE2	2.27	0.50
1:D:3604:TYR:HA	1:D:3607:GLU:CD	2.35	0.50
1:D:4879:MET:CG	1:C:4578:LEU:HD12	2.38	0.50
1:C:218:HIS:HB3	1:C:392:ARG:HH12	1.74	0.50
1:C:2527:LEU:HD13	1:C:2578:MET:HE2	1.92	0.50
1:C:2604:GLU:O	1:C:2608:MET:HG2	2.12	0.50
1:C:3816:MET:N	1:C:3816:MET:SD	2.84	0.50
1:C:4908:GLU:HG2	1:C:4909:TYR:HD1	1.76	0.50
1:A:145:ALA:N	1:A:175:SER:OG	2.44	0.50
1:A:341:TYR:CZ	1:A:392:ARG:HD3	2.46	0.50
1:A:413:GLN:HE22	1:A:437:PRO:HD3	1.75	0.50
1:A:1640:HIS:ND1	1:A:1646:ARG:O	2.44	0.50
1:A:2291:GLN:HB3	1:A:2293:GLN:CD	2.36	0.50
1:A:2768:PHE:O	1:A:2772:GLN:HG3	2.11	0.50
1:A:3547:GLU:H	1:A:3547:GLU:CD	2.19	0.50
1:A:4952:GLU:OE2	1:A:4956:THR:OG1	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:6:THR:HB	2:E:70:GLN:HE21	1.76	0.50
2:H:25:HIS:CE1	2:H:40:ARG:HA	2.47	0.50
1:B:341:TYR:CZ	1:B:392:ARG:HD3	2.46	0.50
1:B:950:LEU:HD22	1:B:970:LEU:HD23	1.93	0.50
1:B:970:LEU:H	1:B:970:LEU:HD12	1.75	0.50
1:B:979:PRO:O	1:B:983:THR:HG23	2.10	0.50
1:B:1238:PHE:CD1	1:B:1608:MET:HG3	2.47	0.50
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.11	0.50
1:B:2822:THR:OG1	1:B:2824:GLU:OE2	2.21	0.50
1:B:3236:VAL:HA	1:B:3239:MET:HG3	1.94	0.50
1:B:3346:VAL:HG11	1:B:3411:LEU:HB2	1.93	0.50
1:B:4864:ASN:HB2	1:B:4874:MET:HE1	1.93	0.50
1:B:4980:LEU:HA	1:B:4984:ASN:HD22	1.76	0.50
1:D:246:TYR:CD1	1:D:373:LYS:HD3	2.47	0.50
1:D:451:TYR:CE2	1:D:474:ARG:HD3	2.46	0.50
1:D:486:LEU:HD12	1:D:487:VAL:HG23	1.92	0.50
1:D:575:LEU:HD11	1:D:606:LEU:O	2.12	0.50
1:D:874:LEU:HD22	1:D:1049:TYR:CD2	2.45	0.50
1:D:928:THR:O	1:D:932:LEU:HG	2.11	0.50
1:D:990:GLU:OE1	1:D:1024:TYR:HB3	2.12	0.50
1:D:1286:MET:HE2	1:D:1286:MET:HA	1.91	0.50
1:D:1454:THR:OG1	1:D:1491:ASN:O	2.27	0.50
1:D:2858:GLN:HB2	1:D:2859:PRO:HD3	1.92	0.50
1:D:4735:GLU:OE1	1:D:4735:GLU:N	2.39	0.50
1:C:404:ILE:HG23	1:C:483:MET:HE2	1.93	0.50
1:C:1712:TYR:CG	1:C:1840:PRO:HB3	2.46	0.50
1:C:1943:LEU:HD13	1:C:2098:VAL:HG22	1.93	0.50
1:C:1951:LEU:HA	1:C:1954:ARG:HG3	1.93	0.50
1:C:2129:ASP:O	1:C:2133:GLU:HG3	2.10	0.50
1:C:2225:PHE:HB2	1:C:2228:MET:HB2	1.93	0.50
1:C:2480:GLY:N	1:C:2484:ALA:O	2.45	0.50
1:C:3547:GLU:H	1:C:3547:GLU:CD	2.19	0.50
1:C:4248:ALA:O	1:C:4252:SER:HB3	2.10	0.50
1:C:4980:LEU:HA	1:C:4984:ASN:HD22	1.77	0.50
1:A:394:GLN:OE1	1:A:397:GLU:N	2.32	0.50
1:A:688:LEU:HD12	1:A:689:THR:N	2.27	0.50
1:A:2621:HIS:HA	1:A:2624:ARG:NE	2.26	0.50
1:A:3053:ARG:HA	1:A:3056:LEU:HD13	1.92	0.50
1:A:3835:LEU:HD22	1:A:3880:PHE:HZ	1.75	0.50
1:A:4733:GLY:O	1:A:4737:ILE:HG12	2.11	0.50
2:H:23:VAL:HG23	2:H:47:LYS:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:17:LYS:HD2	2:F:20:GLN:HB2	1.93	0.50
1:B:172:VAL:HG13	1:B:179:TYR:CE1	2.46	0.50
1:B:394:GLN:NE2	1:B:396:GLU:H	2.10	0.50
1:B:615:ARG:NH1	1:B:1678:ASN:HA	2.26	0.50
1:B:1243:PRO:HB3	1:B:1602:PRO:HA	1.94	0.50
1:B:1943:LEU:HD13	1:B:2098:VAL:HG22	1.94	0.50
1:B:2090:LYS:NZ	1:B:2092:GLN:HG2	2.26	0.50
1:B:2555:CYS:HA	1:B:2559:LEU:HG	1.93	0.50
1:B:2588:ARG:NH2	1:B:2591:ARG:HG3	2.26	0.50
1:B:3132:THR:HA	1:B:3136:LEU:HB2	1.94	0.50
1:B:3766:GLN:HB3	1:B:3769:ARG:HH12	1.77	0.50
1:B:3816:MET:N	1:B:3816:MET:SD	2.84	0.50
1:B:4716:TRP:CZ3	1:B:4717:ASP:HB2	2.46	0.50
1:B:4743:MET:HE1	1:B:4745:LEU:HD23	1.94	0.50
1:B:4824:ARG:HA	1:B:4827:LEU:HG	1.91	0.50
1:D:145:ALA:N	1:D:175:SER:OG	2.44	0.50
1:D:681:HIS:N	1:D:784:SER:OG	2.37	0.50
1:D:1108:GLU:OE2	1:D:1108:GLU:N	2.36	0.50
1:D:1708:ARG:NH1	1:D:1837:GLN:HA	2.27	0.50
1:D:2291:GLN:HB3	1:D:2293:GLN:CD	2.36	0.50
1:D:2312:MET:HA	1:D:2315:ALA:HB3	1.92	0.50
1:D:2559:LEU:HA	1:D:2562:ILE:HD12	1.93	0.50
1:D:2604:GLU:O	1:D:2608:MET:HG2	2.11	0.50
1:D:3835:LEU:HD22	1:D:3880:PHE:HZ	1.75	0.50
1:D:3897:ASN:OD1	1:D:3898:ASP:N	2.45	0.50
1:D:4161:ARG:HH11	1:D:4161:ARG:HG3	1.77	0.50
1:D:4248:ALA:O	1:D:4252:SER:HB3	2.10	0.50
1:D:4682:GLU:O	1:D:4727:LYS:NZ	2.40	0.50
1:C:221:ARG:NH1	1:C:253:CYS:O	2.44	0.50
1:C:575:LEU:HD11	1:C:606:LEU:O	2.12	0.50
1:C:1291:LEU:HB3	1:C:1595:LEU:HD11	1.92	0.50
1:C:1935:VAL:HA	1:C:1938:GLN:OE1	2.11	0.50
1:C:2441:HIS:O	1:C:2442:LEU:HB3	2.11	0.50
1:C:2559:LEU:HB3	1:C:2606:CYS:SG	2.50	0.50
1:C:4157:ASP:O	1:C:4161:ARG:HG2	2.10	0.50
1:C:4716:TRP:CZ3	1:C:4717:ASP:HB2	2.47	0.50
1:A:257:ARG:O	1:A:284:HIS:NE2	2.35	0.50
1:A:575:LEU:HD11	1:A:606:LEU:O	2.12	0.50
1:A:971:ASP:OD2	1:A:974:HIS:ND1	2.33	0.50
1:A:1106:ARG:HH21	1:A:1120:LEU:HB3	1.76	0.50
1:A:2225:PHE:HB2	1:A:2228:MET:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2970:SER:HB2	1:A:3049:LEU:HD21	1.94	0.50
1:B:278:GLN:HA	1:B:328:LYS:NZ	2.27	0.50
1:B:486:LEU:HD12	1:B:487:VAL:HG23	1.92	0.50
1:B:627:PRO:HA	1:B:629:ARG:HH21	1.75	0.50
1:B:1291:LEU:HB3	1:B:1595:LEU:HD11	1.92	0.50
1:B:2964:LEU:HD12	1:B:3042:LEU:HD21	1.93	0.50
1:B:3000:LYS:N	1:B:3000:LYS:HD2	2.26	0.50
1:B:3108:GLU:HA	1:B:3111:ARG:HG2	1.92	0.50
1:B:3250:MET:HE1	1:B:3277:LEU:HD22	1.91	0.50
1:B:3384:LYS:HG3	1:B:3386:GLU:HG3	1.92	0.50
1:B:3976:ASN:O	1:B:3980:LEU:HG	2.11	0.50
1:B:4067:LYS:HA	1:B:4070:ASP:OD1	2.10	0.50
1:D:365:LYS:NZ	1:D:365:LYS:O	2.32	0.50
1:D:758:ARG:NH1	1:D:761:GLY:H	2.08	0.50
1:D:1106:ARG:HH21	1:D:1120:LEU:HB3	1.76	0.50
1:D:1299:GLN:HA	1:D:1545:ASN:HB2	1.93	0.50
1:D:2437:ALA:HB2	1:D:2509:VAL:HG22	1.93	0.50
1:D:2754:PHE:CZ	1:D:2930:LEU:HG	2.46	0.50
1:D:3579:LEU:HD23	1:D:3581:GLY:H	1.77	0.50
1:D:3965:LEU:HA	1:D:3968:TYR:CD2	2.46	0.50
1:D:4207:MET:O	1:D:4211:LYS:HG3	2.11	0.50
1:D:4733:GLY:O	1:D:4737:ILE:HG12	2.11	0.50
1:C:1131:ARG:NH1	1:C:1138:PRO:O	2.44	0.50
1:C:1708:ARG:NH1	1:C:1837:GLN:HA	2.26	0.50
1:C:2437:ALA:HB2	1:C:2509:VAL:HG22	1.93	0.50
1:C:3066:ASN:O	1:C:3070:ILE:HG13	2.11	0.50
1:C:3187:ARG:NH2	1:C:3263:TYR:OH	2.38	0.50
1:C:3525:CYS:HA	1:C:3595:ARG:HH21	1.77	0.50
1:C:4061:PHE:O	1:C:4064:MET:HG2	2.12	0.50
1:C:4161:ARG:HH11	1:C:4161:ARG:HG3	1.77	0.50
1:C:4677:LEU:O	1:C:4681:LEU:HG	2.11	0.50
1:A:246:TYR:CD1	1:A:373:LYS:HD3	2.47	0.50
1:A:1570:LYS:NZ	1:A:1571:ASN:OD1	2.45	0.50
1:A:1708:ARG:NH1	1:A:1837:GLN:HA	2.26	0.50
1:A:1839:VAL:HG22	1:A:1938:GLN:HE22	1.77	0.50
1:A:2437:ALA:HB2	1:A:2509:VAL:HG22	1.93	0.50
1:A:2559:LEU:HA	1:A:2562:ILE:HD12	1.93	0.50
1:A:3066:ASN:O	1:A:3070:ILE:HG13	2.11	0.50
1:A:3319:ILE:O	1:A:3322:ILE:HG22	2.12	0.50
1:A:3780:LEU:HD11	1:A:3816:MET:HB3	1.93	0.50
1:A:4017:LEU:HD22	1:A:4139:ILE:HG21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3:GLN:OE1	2:E:3:GLN:N	2.44	0.50
1:B:365:LYS:NZ	1:B:365:LYS:O	2.32	0.50
1:B:1839:VAL:HG22	1:B:1938:GLN:HE22	1.77	0.50
1:B:1854:PHE:CZ	1:B:1862:ILE:HD11	2.45	0.50
1:B:3432:GLU:O	1:B:3436:ARG:HG3	2.11	0.50
1:B:4207:MET:O	1:B:4211:LYS:HG3	2.11	0.50
1:D:172:VAL:HG13	1:D:179:TYR:CE1	2.46	0.50
1:D:688:LEU:HD12	1:D:689:THR:N	2.27	0.50
1:D:1475:THR:HA	1:D:1486:SER:HA	1.92	0.50
1:D:2463:LEU:HA	1:D:2466:LEU:HD12	1.93	0.50
1:D:2621:HIS:HA	1:D:2624:ARG:NE	2.26	0.50
1:D:2638:LYS:O	1:D:2642:LYS:HG3	2.11	0.50
1:D:3525:CYS:HA	1:D:3595:ARG:HH21	1.77	0.50
1:D:3780:LEU:HD11	1:D:3816:MET:HB3	1.92	0.50
1:D:3816:MET:N	1:D:3816:MET:SD	2.84	0.50
1:D:4876:CYS:HA	1:D:4878:ASP:H	1.77	0.50
1:D:4942:GLU:HA	1:D:4945:ASP:OD2	2.12	0.50
1:C:246:TYR:CD1	1:C:373:LYS:HD3	2.47	0.50
1:C:365:LYS:NZ	1:C:369:LEU:HG	2.26	0.50
1:C:462:GLU:H	1:C:462:GLU:CD	2.19	0.50
1:C:688:LEU:HD12	1:C:689:THR:N	2.27	0.50
1:C:984:LEU:HA	1:C:987:ARG:NE	2.26	0.50
1:C:1166:GLY:HA2	1:C:1217:CYS:SG	2.51	0.50
1:C:1243:PRO:HB3	1:C:1602:PRO:HA	1.93	0.50
1:C:1431:THR:O	1:C:1431:THR:HG22	2.11	0.50
1:C:1839:VAL:HG22	1:C:1938:GLN:HE22	1.77	0.50
1:C:2238:TYR:O	1:C:2242:ILE:HG12	2.12	0.50
1:C:2588:ARG:NH2	1:C:2591:ARG:HG3	2.26	0.50
1:C:2754:PHE:CZ	1:C:2930:LEU:HG	2.46	0.50
1:C:2822:THR:OG1	1:C:2824:GLU:OE2	2.21	0.50
1:C:2858:GLN:HB2	1:C:2859:PRO:HD3	1.92	0.50
1:C:2971:GLN:O	1:C:2974:ILE:HG13	2.12	0.50
1:C:3132:THR:HA	1:C:3136:LEU:HB2	1.94	0.50
1:C:3579:LEU:HD23	1:C:3581:GLY:H	1.76	0.50
1:C:3803:SER:HA	1:C:3806:ASN:ND2	2.27	0.50
1:C:4005:GLN:HA	1:C:4114:CYS:HA	1.92	0.50
1:C:4743:MET:HE1	1:C:4745:LEU:HD23	1.94	0.50
1:C:4903:ASP:O	1:C:4913:ARG:NH2	2.41	0.50
1:C:4942:GLU:HA	1:C:4945:ASP:OD2	2.12	0.50
1:A:171:LEU:O	1:A:179:TYR:HA	2.11	0.50
1:A:692:TYR:O	1:A:827:LYS:NZ	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1608:MET:SD	1:A:1608:MET:N	2.84	0.50
1:A:2970:SER:HA	1:A:2973:PHE:HE2	1.71	0.50
1:A:3766:GLN:HB3	1:A:3769:ARG:HH12	1.77	0.50
1:A:3897:ASN:OD1	1:A:3898:ASP:N	2.45	0.50
1:A:4942:GLU:HA	1:A:4945:ASP:OD2	2.11	0.50
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.45	0.50
1:B:2481:LYS:HZ3	1:B:2484:ALA:HB3	1.75	0.50
1:B:2638:LYS:O	1:B:2642:LYS:HG3	2.11	0.50
1:B:3066:ASN:O	1:B:3070:ILE:HG13	2.11	0.50
1:B:3458:PHE:HA	1:B:3461:GLN:NE2	2.26	0.50
1:B:3833:GLN:CD	1:B:3913:ILE:HG21	2.37	0.50
1:B:3897:ASN:OD1	1:B:3898:ASP:N	2.45	0.50
1:D:394:GLN:NE2	1:D:396:GLU:H	2.10	0.50
1:D:1854:PHE:CE1	1:D:1858:ASP:HB3	2.47	0.50
1:D:2971:GLN:O	1:D:2974:ILE:HG13	2.12	0.50
1:C:226:HIS:CG	1:C:226:HIS:O	2.65	0.50
1:C:615:ARG:NH1	1:C:1678:ASN:HA	2.26	0.50
1:C:758:ARG:NH1	1:C:761:GLY:H	2.08	0.50
1:C:1160:ILE:HB	1:C:1179:PHE:HD2	1.76	0.50
1:C:1238:PHE:CD1	1:C:1608:MET:HG3	2.47	0.50
1:C:2423:MET:HE3	1:C:2498:HIS:ND1	2.26	0.50
1:C:2481:LYS:HZ3	1:C:2484:ALA:HB3	1.77	0.50
1:C:3432:GLU:O	1:C:3436:ARG:HG3	2.11	0.50
1:C:3512:ALA:O	1:C:3516:LYS:HG2	2.12	0.50
1:C:3766:GLN:HB3	1:C:3769:ARG:HH12	1.77	0.50
1:A:230:CYS:SG	1:A:231:LEU:N	2.85	0.50
1:A:743:VAL:HG21	1:A:801:LYS:HG3	1.94	0.50
1:A:990:GLU:OE1	1:A:1024:TYR:HB3	2.12	0.50
1:A:1243:PRO:HB3	1:A:1602:PRO:HA	1.93	0.50
1:A:1253:PRO:O	1:A:1275:ARG:NH1	2.34	0.50
1:A:2393:ASP:HB3	1:A:2417:HIS:HA	1.94	0.50
1:A:2971:GLN:O	1:A:2974:ILE:HG13	2.12	0.50
1:B:246:TYR:CD1	1:B:373:LYS:HD3	2.47	0.50
1:B:451:TYR:CE2	1:B:474:ARG:HD3	2.46	0.50
1:B:575:LEU:HD11	1:B:606:LEU:O	2.12	0.50
1:B:614:VAL:HB	1:B:617:ASN:HB2	1.94	0.50
1:B:879:HIS:NE2	1:B:918:ARG:HA	2.26	0.50
1:B:1570:LYS:NZ	1:B:1571:ASN:OD1	2.45	0.50
1:B:2393:ASP:HB3	1:B:2417:HIS:HA	1.94	0.50
1:B:2657:LEU:HB3	1:B:2660:GLY:H	1.77	0.50
1:B:2954:ARG:HH12	1:B:3031:ALA:HA	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2970:SER:HB2	1:B:3049:LEU:HD21	1.94	0.50
1:B:3019:SER:HA	1:B:3025:LEU:H	1.76	0.50
1:B:4061:PHE:O	1:B:4064:MET:HG2	2.12	0.50
1:D:462:GLU:H	1:D:462:GLU:CD	2.19	0.50
1:D:1131:ARG:NH1	1:D:1138:PRO:O	2.44	0.50
1:D:1238:PHE:CD1	1:D:1608:MET:HG3	2.46	0.50
1:D:1726:SER:O	1:D:1729:SER:OG	2.24	0.50
1:D:1951:LEU:HA	1:D:1954:ARG:HG3	1.93	0.50
1:D:2238:TYR:O	1:D:2242:ILE:HG12	2.12	0.50
1:C:451:TYR:CE2	1:C:474:ARG:HD3	2.46	0.50
1:C:2621:HIS:HA	1:C:2624:ARG:NE	2.26	0.50
1:C:2699:ALA:O	1:C:2702:CYS:HB3	2.12	0.50
1:C:3458:PHE:HA	1:C:3461:GLN:NE2	2.27	0.50
1:C:3780:LEU:HD11	1:C:3816:MET:HB3	1.93	0.50
1:A:35:LEU:HA	1:A:51:PRO:HA	1.93	0.50
1:A:172:VAL:HG13	1:A:179:TYR:CE1	2.46	0.50
1:A:226:HIS:CG	1:A:226:HIS:O	2.65	0.50
1:A:2423:MET:HE3	1:A:2498:HIS:ND1	2.26	0.50
1:A:2657:LEU:HB3	1:A:2660:GLY:H	1.77	0.50
1:A:3051:ARG:HH21	1:A:3136:LEU:HD11	1.77	0.50
1:A:3579:LEU:HD23	1:A:3581:GLY:H	1.77	0.50
1:A:3803:SER:HA	1:A:3806:ASN:ND2	2.27	0.50
1:A:4978:HIS:HA	1:A:4982:GLU:HG3	1.92	0.50
2:H:7:ILE:N	2:H:71:ARG:O	2.39	0.50
2:G:37:ASP:HB2	1:C:1782:PHE:HD2	1.76	0.50
1:B:226:HIS:CG	1:B:226:HIS:O	2.65	0.50
1:B:921:ASN:HA	1:B:924:MET:HG3	1.94	0.50
1:B:2480:GLY:N	1:B:2484:ALA:O	2.45	0.50
1:B:2699:ALA:O	1:B:2702:CYS:HB3	2.12	0.50
1:B:3512:ALA:O	1:B:3516:LYS:HG2	2.11	0.50
1:D:230:CYS:SG	1:D:231:LEU:N	2.85	0.50
1:D:950:LEU:HD22	1:D:970:LEU:HD23	1.93	0.50
1:D:971:ASP:OD2	1:D:974:HIS:ND1	2.33	0.50
1:D:1839:VAL:HG22	1:D:1938:GLN:HE22	1.77	0.50
1:D:2225:PHE:HB2	1:D:2228:MET:HB2	1.93	0.50
1:D:2423:MET:HE3	1:D:2498:HIS:ND1	2.26	0.50
1:C:278:GLN:HA	1:C:328:LYS:NZ	2.27	0.50
1:C:743:VAL:HG21	1:C:801:LYS:HG3	1.94	0.50
1:C:2762:THR:O	1:C:2765:LYS:HB2	2.12	0.50
1:C:2828:GLU:OE1	1:C:2829:GLY:N	2.45	0.50
1:C:3850:GLN:O	1:C:3854:GLU:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3994:HIS:HD2	1:C:3998:HIS:CE1	2.29	0.50
1:C:4864:ASN:HB2	1:C:4874:MET:HE1	1.93	0.50
1:C:4876:CYS:HA	1:C:4878:ASP:H	1.77	0.50
1:C:4993:MET:HA	1:C:4996:ILE:HD12	1.94	0.50
1:A:394:GLN:NE2	1:A:396:GLU:H	2.10	0.50
1:A:1238:PHE:CD1	1:A:1608:MET:HG3	2.47	0.50
1:A:1842:LEU:O	1:A:1846:SER:OG	2.29	0.50
1:A:2376:LEU:O	1:A:2380:ILE:HG12	2.11	0.50
1:A:2481:LYS:HZ3	1:A:2484:ALA:HB3	1.76	0.50
1:A:2621:HIS:CG	1:A:2624:ARG:HE	2.30	0.50
1:A:2690:LYS:N	1:A:2690:LYS:HD2	2.27	0.50
1:A:2967:MET:HG3	1:A:3042:LEU:HD22	1.94	0.50
1:A:3132:THR:HA	1:A:3136:LEU:HB2	1.94	0.50
1:A:3149:GLN:HE22	1:A:3150:HIS:CE1	2.30	0.50
1:A:3833:GLN:CD	1:A:3913:ILE:HG21	2.37	0.50
1:B:1299:GLN:HA	1:B:1545:ASN:HB2	1.93	0.50
1:B:1708:ARG:NH1	1:B:1837:GLN:HA	2.26	0.50
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.12	0.50
1:B:2559:LEU:HA	1:B:2562:ILE:HD12	1.93	0.50
1:B:3244:PRO:HB3	1:B:3248:ARG:HD3	1.94	0.50
1:B:3319:ILE:O	1:B:3322:ILE:HG22	2.12	0.50
1:B:3367:LYS:HE2	1:B:3371:LYS:NZ	2.27	0.50
1:B:3513:THR:O	1:B:3517:MET:HG2	2.12	0.50
1:B:3579:LEU:HD23	1:B:3581:GLY:H	1.77	0.50
1:D:984:LEU:HA	1:D:987:ARG:NE	2.26	0.50
1:D:1106:ARG:NE	1:D:1120:LEU:HB3	2.24	0.50
1:D:1648:MET:SD	1:D:1649:ASP:N	2.85	0.50
1:D:1805:GLU:OE1	1:D:1805:GLU:N	2.31	0.50
1:D:1943:LEU:HD13	1:D:2098:VAL:HG22	1.94	0.50
1:D:2393:ASP:HB3	1:D:2417:HIS:HA	1.94	0.50
1:D:2621:HIS:CG	1:D:2624:ARG:HE	2.30	0.50
1:D:3051:ARG:HH21	1:D:3136:LEU:HD11	1.77	0.50
1:D:3367:LYS:HE2	1:D:3371:LYS:NZ	2.27	0.50
1:D:3940:LYS:O	1:D:4002:LYS:NZ	2.44	0.50
1:D:4555:LEU:HD21	1:D:4659:ILE:HG23	1.94	0.50
1:D:4677:LEU:O	1:D:4681:LEU:HG	2.11	0.50
1:C:868:GLU:HA	1:C:871:ARG:HG3	1.94	0.50
1:C:1229:ASN:OD1	1:C:1826:ALA:HA	2.12	0.50
1:C:2321:ILE:HB	1:C:2418:LEU:HD11	1.93	0.50
1:C:2555:CYS:HA	1:C:2559:LEU:HG	1.93	0.50
1:C:2559:LEU:HA	1:C:2562:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2621:HIS:CG	1:C:2624:ARG:HE	2.30	0.50
1:A:463:GLU:OE1	1:A:463:GLU:N	2.36	0.49
1:A:637:LEU:HD21	1:A:1696:HIS:ND1	2.27	0.49
1:A:975:VAL:HG21	1:A:1048:GLY:HA2	1.94	0.49
1:A:1131:ARG:NH1	1:A:1138:PRO:O	2.44	0.49
1:A:1648:MET:SD	1:A:1649:ASP:N	2.85	0.49
1:A:1712:TYR:CG	1:A:1840:PRO:HB3	2.46	0.49
1:A:1943:LEU:HD13	1:A:2098:VAL:HG22	1.94	0.49
1:A:2165:LEU:HD21	1:A:2174:GLU:HB3	1.93	0.49
1:A:2463:LEU:HA	1:A:2466:LEU:HD12	1.93	0.49
1:A:2555:CYS:HA	1:A:2559:LEU:HG	1.93	0.49
1:A:3174:SER:O	1:A:3177:THR:OG1	2.24	0.49
1:A:3367:LYS:HE2	1:A:3371:LYS:NZ	2.27	0.49
1:A:4716:TRP:CZ3	1:A:4717:ASP:HB2	2.46	0.49
2:G:25:HIS:HB3	2:G:40:ARG:NH1	2.27	0.49
1:B:257:ARG:O	1:B:284:HIS:NE2	2.35	0.49
1:B:772:ASN:ND2	1:B:1470:ARG:HD2	2.26	0.49
1:B:990:GLU:OE1	1:B:1024:TYR:HB3	2.12	0.49
1:B:3344:PRO:O	1:B:3347:SER:OG	2.23	0.49
1:B:3525:CYS:HA	1:B:3595:ARG:HH21	1.77	0.49
1:B:3527:PRO:HB2	1:B:3573:MET:SD	2.51	0.49
1:B:4673:ARG:HH22	1:B:4701:TRP:HB3	1.77	0.49
1:B:4682:GLU:O	1:B:4727:LYS:NZ	2.40	0.49
1:D:437:PRO:HB2	1:D:440:ALA:HB3	1.92	0.49
1:D:551:LEU:HD23	1:D:560:ILE:HG22	1.94	0.49
1:D:868:GLU:HA	1:D:871:ARG:HG3	1.94	0.49
1:D:1243:PRO:HB3	1:D:1602:PRO:HA	1.93	0.49
1:D:3513:THR:O	1:D:3517:MET:HG2	2.12	0.49
1:D:4061:PHE:O	1:D:4064:MET:HG2	2.12	0.49
1:C:103:TYR:OH	1:C:167:ASP:OD2	2.30	0.49
1:C:601:ASP:OD1	1:C:1668:ARG:NH2	2.45	0.49
1:C:838:HIS:ND1	1:C:1201:HIS:HB2	2.27	0.49
1:C:1106:ARG:HH21	1:C:1120:LEU:HB3	1.76	0.49
1:C:1608:MET:SD	1:C:1608:MET:N	2.84	0.49
1:C:3319:ILE:O	1:C:3322:ILE:HG22	2.12	0.49
1:C:3629:ARG:HA	1:C:3629:ARG:NE	2.27	0.49
1:C:3976:ASN:O	1:C:3980:LEU:HG	2.11	0.49
1:C:3986:TRP:CD1	1:C:3986:TRP:H	2.29	0.49
1:A:278:GLN:HA	1:A:328:LYS:NZ	2.27	0.49
1:A:909:ASN:O	1:A:913:LEU:N	2.42	0.49
1:A:1299:GLN:HA	1:A:1545:ASN:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2588:ARG:NH2	1:A:2591:ARG:HG3	2.26	0.49
1:A:2964:LEU:HD12	1:A:3042:LEU:HD21	1.93	0.49
1:A:3816:MET:N	1:A:3816:MET:SD	2.84	0.49
1:B:1166:GLY:HA2	1:B:1217:CYS:SG	2.51	0.49
1:B:1648:MET:SD	1:B:1649:ASP:N	2.85	0.49
1:B:2449:GLU:HA	1:B:2452:ARG:HE	1.76	0.49
1:B:2971:GLN:O	1:B:2974:ILE:HG13	2.12	0.49
1:B:3226:GLU:O	1:B:3227:ARG:HG3	2.12	0.49
1:B:4677:LEU:O	1:B:4681:LEU:HG	2.12	0.49
1:D:226:HIS:CG	1:D:226:HIS:O	2.65	0.49
1:D:515:TRP:HA	1:D:518:ILE:HD12	1.94	0.49
1:D:637:LEU:HD21	1:D:1696:HIS:ND1	2.27	0.49
1:D:1106:ARG:NH2	1:D:1120:LEU:HD13	2.27	0.49
1:D:1663:HIS:NE2	1:D:1711:TYR:OH	2.42	0.49
1:D:1695:LEU:O	1:D:1699:GLU:HG2	2.13	0.49
1:D:2699:ALA:O	1:D:2702:CYS:HB3	2.12	0.49
1:D:2879:ALA:HB2	1:D:2923:ALA:HB2	1.94	0.49
1:C:614:VAL:HB	1:C:617:ASN:HB2	1.94	0.49
1:C:891:TRP:CG	1:C:902:ARG:HH21	2.30	0.49
1:C:1648:MET:SD	1:C:1649:ASP:N	2.85	0.49
1:C:1681:VAL:O	1:C:1685:LEU:HG	2.12	0.49
1:C:2332:LEU:O	1:C:2432:LEU:HD21	2.11	0.49
1:C:2657:LEU:HB3	1:C:2660:GLY:H	1.77	0.49
1:C:4207:MET:O	1:C:4211:LYS:HG3	2.11	0.49
1:C:4673:ARG:HH22	1:C:4701:TRP:HB3	1.77	0.49
1:A:404:ILE:HG23	1:A:483:MET:HE2	1.93	0.49
1:A:3702:VAL:O	1:A:3778:MET:HE1	2.12	0.49
1:A:4823:LEU:HD13	1:B:4843:LEU:HD13	1.94	0.49
1:A:5019:TRP:HE3	1:A:5021:PHE:HE1	1.60	0.49
2:H:88:PRO:CB	1:D:623:GLU:OE1	2.61	0.49
1:B:103:TYR:OH	1:B:167:ASP:OD2	2.30	0.49
1:B:283:ARG:HA	1:B:290:TYR:HA	1.94	0.49
1:B:688:LEU:HD12	1:B:689:THR:N	2.27	0.49
1:B:891:TRP:CG	1:B:902:ARG:HH21	2.30	0.49
1:B:2143:THR:OG1	1:B:3651:ASN:ND2	2.46	0.49
1:B:3986:TRP:CD1	1:B:3986:TRP:H	2.29	0.49
1:B:4161:ARG:HH11	1:B:4161:ARG:HG3	1.77	0.49
1:B:4189:ARG:NH1	1:B:4190:ILE:O	2.45	0.49
1:B:4993:MET:HA	1:B:4996:ILE:HD12	1.94	0.49
1:D:321:GLU:N	1:D:321:GLU:OE2	2.44	0.49
1:D:743:VAL:HG21	1:D:801:LYS:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:765:GLN:H	1:D:765:GLN:CD	2.19	0.49
1:D:879:HIS:NE2	1:D:918:ARG:HA	2.26	0.49
1:D:2165:LEU:HD21	1:D:2174:GLU:HB3	1.93	0.49
1:D:2555:CYS:HA	1:D:2559:LEU:HG	1.93	0.49
1:D:2657:LEU:HB3	1:D:2660:GLY:H	1.77	0.49
1:D:2967:MET:HG3	1:D:3042:LEU:HD22	1.94	0.49
1:D:4716:TRP:CZ3	1:D:4717:ASP:HB2	2.46	0.49
1:C:35:LEU:HA	1:C:51:PRO:HA	1.94	0.49
1:C:172:VAL:HG13	1:C:179:TYR:CE1	2.46	0.49
1:C:637:LEU:HD21	1:C:1696:HIS:ND1	2.28	0.49
1:C:921:ASN:HA	1:C:924:MET:HG3	1.94	0.49
1:C:1022:VAL:HG22	1:C:1023:PRO:HD2	1.93	0.49
1:C:1801:ALA:O	1:C:1802:ILE:HD13	2.13	0.49
1:C:2690:LYS:HD2	1:C:2690:LYS:N	2.27	0.49
1:C:2819:TRP:HE1	1:C:2881:ASN:CG	2.20	0.49
1:C:3236:VAL:HA	1:C:3239:MET:HG3	1.94	0.49
1:C:3527:PRO:HB2	1:C:3573:MET:SD	2.51	0.49
1:C:4017:LEU:HD22	1:C:4139:ILE:HG21	1.92	0.49
1:A:464:LYS:O	1:A:468:LEU:HG	2.13	0.49
1:A:1782:PHE:HD2	2:E:37:ASP:HB2	1.76	0.49
1:A:2889:LYS:HD2	1:A:2890:LYS:N	2.27	0.49
1:A:3458:PHE:HA	1:A:3461:GLN:NE2	2.26	0.49
1:A:4161:ARG:HH11	1:A:4161:ARG:HG3	1.77	0.49
1:B:743:VAL:HG21	1:B:801:LYS:HG3	1.94	0.49
1:B:896:VAL:HB	1:B:901:LYS:HE2	1.95	0.49
1:B:924:MET:O	1:B:928:THR:HG23	2.12	0.49
1:B:975:VAL:HG21	1:B:1048:GLY:HA2	1.94	0.49
1:B:1106:ARG:NH2	1:B:1120:LEU:HD13	2.28	0.49
1:B:2165:LEU:HD21	1:B:2174:GLU:HB3	1.93	0.49
1:B:2530:MET:SD	1:B:2531:ARG:NH1	2.82	0.49
1:B:2560:PRO:O	1:B:2564:LYS:NZ	2.43	0.49
1:B:2762:THR:O	1:B:2765:LYS:HB2	2.12	0.49
1:B:3803:SER:HA	1:B:3806:ASN:ND2	2.27	0.49
1:B:4823:LEU:HD13	1:C:4843:LEU:HD22	1.94	0.49
1:D:463:GLU:OE1	1:D:463:GLU:N	2.36	0.49
1:D:601:ASP:OD1	1:D:1668:ARG:NH2	2.45	0.49
1:D:1022:VAL:HG22	1:D:1023:PRO:HD2	1.93	0.49
1:D:2321:ILE:HB	1:D:2418:LEU:HD11	1.93	0.49
1:D:3132:THR:HA	1:D:3136:LEU:HB2	1.94	0.49
1:D:3226:GLU:O	1:D:3227:ARG:HG3	2.12	0.49
1:D:4573:ILE:O	1:D:4577:LEU:HG	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4776:GLN:HA	1:D:4779:LYS:HE2	1.95	0.49
1:D:5019:TRP:HE3	1:D:5021:PHE:HE1	1.60	0.49
1:C:924:MET:O	1:C:928:THR:HG23	2.12	0.49
1:C:1299:GLN:HA	1:C:1545:ASN:HB2	1.93	0.49
1:C:1695:LEU:O	1:C:1699:GLU:HG2	2.13	0.49
1:C:1854:PHE:CE1	1:C:1858:ASP:HB3	2.46	0.49
1:C:2090:LYS:NZ	1:C:2092:GLN:HG2	2.26	0.49
1:C:2143:THR:OG1	1:C:3651:ASN:ND2	2.46	0.49
1:C:2393:ASP:HB3	1:C:2417:HIS:HA	1.94	0.49
1:A:551:LEU:HD23	1:A:560:ILE:HG22	1.94	0.49
1:A:2090:LYS:HZ2	1:A:2092:GLN:HG2	1.77	0.49
1:A:2238:TYR:O	1:A:2242:ILE:HG12	2.12	0.49
1:A:2604:GLU:O	1:A:2608:MET:HG2	2.12	0.49
1:A:2699:ALA:O	1:A:2702:CYS:HB3	2.12	0.49
1:A:3512:ALA:O	1:A:3516:LYS:HG2	2.11	0.49
1:A:3525:CYS:HA	1:A:3595:ARG:HH21	1.77	0.49
1:A:3896:ASN:O	1:A:3900:GLN:HG3	2.12	0.49
2:H:2:VAL:HG23	2:H:80:TYR:HD2	1.78	0.49
2:H:42:ARG:HB3	2:H:44:LYS:HZ3	1.77	0.49
2:G:90:ILE:HG12	1:C:1687:SER:HB3	1.93	0.49
1:B:564:LEU:O	1:B:568:LEU:HG	2.13	0.49
1:B:803:LEU:HD12	1:B:804:PRO:O	2.12	0.49
1:B:838:HIS:ND1	1:B:1201:HIS:HB2	2.27	0.49
1:B:1106:ARG:HH11	1:B:1108:GLU:CD	2.21	0.49
1:B:1951:LEU:HA	1:B:1954:ARG:HG3	1.93	0.49
1:B:2332:LEU:O	1:B:2432:LEU:HD21	2.11	0.49
1:B:2440:MET:O	1:B:2444:GLN:HG3	2.13	0.49
1:B:2828:GLU:OE1	1:B:2829:GLY:N	2.44	0.49
1:B:3149:GLN:HE22	1:B:3150:HIS:CE1	2.30	0.49
1:B:3174:SER:O	1:B:3177:THR:OG1	2.24	0.49
1:B:3372:VAL:HG21	1:B:3401:LEU:HD21	1.94	0.49
1:B:3629:ARG:NE	1:B:3629:ARG:HA	2.27	0.49
1:B:4733:GLY:O	1:B:4737:ILE:HG12	2.11	0.49
1:D:125:ARG:HH11	1:D:127:MET:HE1	1.78	0.49
1:D:838:HIS:ND1	1:D:1201:HIS:HB2	2.27	0.49
1:D:1681:VAL:O	1:D:1685:LEU:HG	2.12	0.49
1:D:2480:GLY:N	1:D:2484:ALA:O	2.45	0.49
1:D:2819:TRP:HE1	1:D:2881:ASN:CG	2.20	0.49
1:D:2913:ALA:HA	1:D:2916:LYS:HG2	1.94	0.49
1:D:2970:SER:HB2	1:D:3049:LEU:HD21	1.94	0.49
1:D:3149:GLN:HE22	1:D:3150:HIS:CE1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4993:MET:HA	1:D:4996:ILE:HD12	1.94	0.49
1:C:145:ALA:N	1:C:175:SER:OG	2.44	0.49
1:C:365:LYS:NZ	1:C:365:LYS:O	2.32	0.49
1:C:879:HIS:NE2	1:C:918:ARG:HA	2.26	0.49
1:C:950:LEU:HD22	1:C:970:LEU:HD23	1.93	0.49
1:C:1106:ARG:HH11	1:C:1108:GLU:CD	2.21	0.49
1:C:1227:ALA:HA	1:C:1230:MET:HG2	1.95	0.49
1:C:2970:SER:HB2	1:C:3049:LEU:HD21	1.94	0.49
1:C:3051:ARG:HH21	1:C:3136:LEU:HD11	1.77	0.49
1:C:3226:GLU:O	1:C:3227:ARG:HG3	2.12	0.49
1:C:3506:GLN:H	1:C:3506:GLN:CD	2.20	0.49
1:C:3534:MET:N	1:C:3534:MET:SD	2.86	0.49
1:C:3940:LYS:O	1:C:4002:LYS:NZ	2.44	0.49
1:C:4573:ILE:O	1:C:4577:LEU:HG	2.12	0.49
1:A:1106:ARG:NH2	1:A:1120:LEU:HD13	2.27	0.49
1:A:1220:GLN:CD	1:D:3522:LEU:HB3	2.37	0.49
1:A:1648:MET:SD	1:A:1652:GLU:HB2	2.53	0.49
1:A:1695:LEU:O	1:A:1699:GLU:HG2	2.13	0.49
1:A:2419:GLY:O	1:A:2423:MET:HG2	2.13	0.49
1:A:4743:MET:HE1	1:A:4745:LEU:HD23	1.94	0.49
2:H:93:PRO:O	2:H:94:HIS:ND1	2.46	0.49
1:B:464:LYS:O	1:B:468:LEU:HG	2.13	0.49
1:B:868:GLU:HA	1:B:871:ARG:HG3	1.94	0.49
1:B:1648:MET:SD	1:B:1652:GLU:HB2	2.53	0.49
1:B:2225:PHE:HB2	1:B:2228:MET:HB2	1.93	0.49
1:B:2698:MET:O	1:B:2701:PRO:HD2	2.13	0.49
1:B:2819:TRP:HE1	1:B:2881:ASN:CG	2.20	0.49
1:B:3562:LYS:HD3	1:B:3562:LYS:HA	1.60	0.49
1:B:3896:ASN:O	1:B:3900:GLN:HG3	2.12	0.49
1:B:4876:CYS:HA	1:B:4878:ASP:H	1.77	0.49
1:D:464:LYS:O	1:D:468:LEU:HG	2.13	0.49
1:D:1570:LYS:NZ	1:D:1571:ASN:OD1	2.45	0.49
1:D:2189:LYS:HZ1	1:D:2193:GLN:HB2	1.78	0.49
1:D:2828:GLU:OE1	1:D:2829:GLY:N	2.45	0.49
1:D:3319:ILE:O	1:D:3322:ILE:HG22	2.12	0.49
1:D:3506:GLN:H	1:D:3506:GLN:CD	2.20	0.49
1:D:3512:ALA:O	1:D:3516:LYS:HG2	2.12	0.49
1:D:3702:VAL:O	1:D:3778:MET:HE1	2.13	0.49
1:D:3833:GLN:CD	1:D:3913:ILE:HG21	2.37	0.49
1:D:3986:TRP:CD1	1:D:3986:TRP:H	2.29	0.49
1:C:125:ARG:HH11	1:C:127:MET:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:455:PRO:HB3	1:C:467:LYS:HG2	1.95	0.49
1:C:463:GLU:OE1	1:C:463:GLU:N	2.36	0.49
1:C:551:LEU:HD23	1:C:560:ILE:HG22	1.94	0.49
1:C:731:THR:O	1:C:765:GLN:NE2	2.46	0.49
1:C:990:GLU:OE1	1:C:1024:TYR:HB3	2.12	0.49
1:C:1648:MET:SD	1:C:1652:GLU:HB2	2.53	0.49
1:C:2879:ALA:HB2	1:C:2923:ALA:HB2	1.94	0.49
1:C:2889:LYS:HD2	1:C:2890:LYS:N	2.27	0.49
1:C:3897:ASN:OD1	1:C:3898:ASP:N	2.45	0.49
1:C:4732:PHE:HB3	1:C:4737:ILE:HD11	1.95	0.49
1:A:978:THR:OG1	1:A:981:GLN:OE1	2.30	0.49
1:A:1951:LEU:HA	1:A:1954:ARG:HG3	1.93	0.49
1:A:2358:ILE:HG13	1:A:2359:ARG:NE	2.28	0.49
1:A:2762:THR:O	1:A:2765:LYS:HB2	2.12	0.49
1:A:2879:ALA:HB2	1:A:2923:ALA:HB2	1.94	0.49
1:A:3226:GLU:O	1:A:3227:ARG:HG3	2.12	0.49
1:A:3313:ASN:HB2	1:A:3350:ARG:HE	1.78	0.49
1:A:4249:ALA:O	1:A:4252:SER:OG	2.29	0.49
1:A:4555:LEU:HD21	1:A:4659:ILE:HG23	1.94	0.49
1:A:4677:LEU:O	1:A:4681:LEU:HG	2.12	0.49
1:A:4980:LEU:HA	1:A:4984:ASN:HD22	1.76	0.49
1:B:230:CYS:SG	1:B:231:LEU:N	2.85	0.49
1:B:233:ILE:HA	1:B:245:VAL:HG12	1.95	0.49
1:B:551:LEU:HD23	1:B:560:ILE:HG22	1.94	0.49
1:B:2480:GLY:O	1:B:2481:LYS:HG2	2.13	0.49
1:B:2967:MET:HG3	1:B:3042:LEU:HD22	1.94	0.49
1:B:3313:ASN:HB2	1:B:3350:ARG:HE	1.78	0.49
1:B:3534:MET:SD	1:B:3534:MET:N	2.86	0.49
1:B:4573:ILE:O	1:B:4577:LEU:HG	2.13	0.49
1:D:35:LEU:HA	1:D:51:PRO:HA	1.93	0.49
1:D:278:GLN:HA	1:D:328:LYS:NZ	2.27	0.49
1:D:924:MET:O	1:D:928:THR:HG23	2.12	0.49
1:D:2516:ASP:HA	1:D:2519:LEU:HD12	1.95	0.49
1:C:230:CYS:SG	1:C:231:LEU:N	2.85	0.49
1:C:321:GLU:OE2	1:C:321:GLU:N	2.44	0.49
1:C:515:TRP:HA	1:C:518:ILE:HD12	1.94	0.49
1:C:1759:ARG:NH1	1:C:1760:HIS:O	2.46	0.49
1:C:2440:MET:O	1:C:2444:GLN:HG3	2.13	0.49
1:C:2698:MET:O	1:C:2701:PRO:HD2	2.13	0.49
1:C:3833:GLN:CD	1:C:3913:ILE:HG21	2.37	0.49
1:A:601:ASP:OD1	1:A:1668:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:614:VAL:HB	1:A:617:ASN:HB2	1.94	0.49
1:A:1106:ARG:NE	1:A:1120:LEU:HB3	2.24	0.49
1:A:2819:TRP:HE1	1:A:2881:ASN:CG	2.20	0.49
1:A:2828:GLU:OE1	1:A:2829:GLY:N	2.45	0.49
1:A:2909:ASP:OD1	1:A:2909:ASP:N	2.46	0.49
1:A:3236:VAL:HA	1:A:3239:MET:HG3	1.94	0.49
1:A:4207:MET:O	1:A:4211:LYS:HG3	2.11	0.49
1:A:4993:MET:HA	1:A:4996:ILE:HD12	1.94	0.49
2:H:24:VAL:O	2:H:46:PHE:N	2.44	0.49
2:F:105:LYS:NZ	2:F:106:LEU:O	2.39	0.49
1:B:145:ALA:N	1:B:175:SER:OG	2.44	0.49
1:B:978:THR:OG1	1:B:981:GLN:OE1	2.30	0.49
1:B:1619:ARG:HH21	1:B:1626:TRP:HE1	1.60	0.49
1:B:1681:VAL:O	1:B:1685:LEU:HG	2.12	0.49
1:B:2107:GLN:HG3	1:B:3683:GLN:NE2	2.28	0.49
1:B:2312:MET:O	1:B:2316:LYS:N	2.46	0.49
1:B:2742:THR:HG23	1:B:2745:VAL:HB	1.95	0.49
1:B:2889:LYS:HD2	1:B:2890:LYS:N	2.27	0.49
1:B:3850:GLN:O	1:B:3854:GLU:HG3	2.12	0.49
1:D:66:CYS:O	1:D:111:HIS:ND1	2.41	0.49
1:D:1842:LEU:O	1:D:1846:SER:OG	2.29	0.49
1:D:2143:THR:OG1	1:D:3651:ASN:ND2	2.46	0.49
1:D:2481:LYS:HZ3	1:D:2484:ALA:HB3	1.78	0.49
1:D:4677:LEU:HD12	1:D:4678:ALA:N	2.28	0.49
1:D:4743:MET:HE1	1:D:4745:LEU:HD23	1.94	0.49
1:C:394:GLN:NE2	1:C:396:GLU:H	2.10	0.49
1:C:464:LYS:O	1:C:468:LEU:HG	2.13	0.49
1:C:978:THR:OG1	1:C:981:GLN:OE1	2.30	0.49
1:C:1253:PRO:O	1:C:1275:ARG:NH1	2.34	0.49
1:C:2107:GLN:HG3	1:C:3683:GLN:NE2	2.28	0.49
1:C:2165:LEU:HD21	1:C:2174:GLU:HB3	1.93	0.49
1:C:2909:ASP:N	1:C:2909:ASP:OD1	2.46	0.49
1:A:455:PRO:HB3	1:A:467:LYS:HG2	1.95	0.49
1:A:1106:ARG:HH11	1:A:1108:GLU:CD	2.21	0.49
1:A:1220:GLN:CG	1:D:3522:LEU:HB3	2.42	0.49
1:A:1229:ASN:OD1	1:A:1826:ALA:HA	2.12	0.49
1:A:2715:VAL:HG13	1:A:2953:LYS:HB2	1.95	0.49
1:A:3171:SER:OG	1:A:3172:ILE:N	2.46	0.49
1:A:3372:VAL:HG21	1:A:3401:LEU:HD21	1.94	0.49
1:A:3513:THR:O	1:A:3517:MET:HG2	2.12	0.49
1:A:4689:THR:OG1	1:A:4690:GLU:OE1	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:63:VAL:HG22	2:E:101:VAL:HG11	1.94	0.49
2:H:7:ILE:HD12	2:H:72:ALA:HA	1.94	0.49
1:B:455:PRO:HB3	1:B:467:LYS:HG2	1.95	0.49
1:B:667:MET:HE3	1:B:668:VAL:N	2.28	0.49
1:B:1106:ARG:NE	1:B:1120:LEU:HB3	2.24	0.49
1:B:1759:ARG:NH1	1:B:1760:HIS:O	2.46	0.49
1:B:1801:ALA:O	1:B:1802:ILE:HD13	2.13	0.49
1:B:1842:LEU:O	1:B:1846:SER:OG	2.29	0.49
1:B:2463:LEU:HB2	1:B:2510:TYR:CE1	2.48	0.49
1:B:2715:VAL:HG13	1:B:2953:LYS:HB2	1.95	0.49
1:B:3051:ARG:HH21	1:B:3136:LEU:HD11	1.77	0.49
1:B:3702:VAL:O	1:B:3778:MET:HE1	2.13	0.49
1:B:4942:GLU:HA	1:B:4945:ASP:OD2	2.11	0.49
1:D:564:LEU:O	1:D:568:LEU:HG	2.13	0.49
1:D:1106:ARG:HH11	1:D:1108:GLU:CD	2.21	0.49
1:D:3533:ILE:HG22	1:D:3537:LYS:HZ2	1.78	0.49
1:D:3547:GLU:H	1:D:3547:GLU:CD	2.19	0.49
1:D:3850:GLN:O	1:D:3854:GLU:HG3	2.12	0.49
1:D:4933:GLN:O	1:D:4937:ILE:HG12	2.13	0.49
1:D:4980:LEU:HA	1:D:4984:ASN:HD22	1.76	0.49
1:C:2259:GLU:HB2	1:C:2297:LYS:HZ3	1.77	0.49
1:C:3171:SER:OG	1:C:3172:ILE:N	2.46	0.49
1:C:3534:MET:O	1:C:3538:THR:HG23	2.13	0.49
1:C:3896:ASN:O	1:C:3900:GLN:HG3	2.12	0.49
1:C:4680:LYS:O	1:C:4685:GLY:N	2.31	0.49
1:C:4717:ASP:C	1:C:4718:LYS:HD3	2.38	0.49
1:C:4902:GLU:OE2	1:C:4902:GLU:N	2.26	0.49
1:A:731:THR:O	1:A:765:GLN:NE2	2.46	0.49
1:A:1040:CYS:HA	1:A:1043:VAL:HB	1.95	0.49
1:A:2452:ARG:HH11	1:B:175:SER:HA	1.75	0.49
1:A:2463:LEU:HB2	1:A:2510:TYR:CE1	2.48	0.49
1:A:2480:GLY:N	1:A:2484:ALA:O	2.45	0.49
1:A:3545:THR:OG1	1:A:3547:GLU:OE1	2.21	0.49
1:A:3850:GLN:O	1:A:3854:GLU:HG3	2.12	0.49
1:B:213:TYR:CE1	1:B:337:PRO:HB2	2.48	0.49
1:B:462:GLU:H	1:B:462:GLU:CD	2.19	0.49
1:B:2879:ALA:HB2	1:B:2923:ALA:HB2	1.94	0.49
1:B:2886:TRP:CD1	1:B:2889:LYS:HZ2	2.31	0.49
1:B:3145:GLN:CG	1:B:3196:ARG:HE	2.25	0.49
1:B:3805:LEU:O	1:B:3890:LEU:HD22	2.13	0.49
1:B:4555:LEU:HD21	1:B:4659:ILE:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4677:LEU:HD12	1:B:4678:ALA:N	2.28	0.49
1:D:597:HIS:HB3	1:D:1661:ARG:HH11	1.78	0.49
1:D:1007:TYR:O	1:D:1017:ARG:NE	2.39	0.49
1:D:1229:ASN:OD1	1:D:1826:ALA:HA	2.12	0.49
1:D:1801:ALA:O	1:D:1802:ILE:HD13	2.12	0.49
1:D:2107:GLN:HG3	1:D:3683:GLN:NE2	2.28	0.49
1:D:2419:GLY:O	1:D:2423:MET:HG2	2.12	0.49
1:D:2690:LYS:N	1:D:2690:LYS:HD2	2.27	0.49
1:D:2762:THR:O	1:D:2765:LYS:HB2	2.12	0.49
1:D:3803:SER:HA	1:D:3806:ASN:ND2	2.27	0.49
1:D:4092:ASP:HA	1:D:4095:LYS:HE2	1.95	0.49
1:D:4732:PHE:HB3	1:D:4737:ILE:HD11	1.95	0.49
1:C:803:LEU:HD12	1:C:804:PRO:O	2.12	0.49
1:C:935:LEU:HD22	1:C:987:ARG:CZ	2.43	0.49
1:C:1106:ARG:NH2	1:C:1120:LEU:HD13	2.27	0.49
1:C:2243:SER:OG	1:C:2245:GLN:OE1	2.18	0.49
1:C:2516:ASP:HA	1:C:2519:LEU:HD12	1.95	0.49
1:C:2967:MET:HG3	1:C:3042:LEU:HD22	1.94	0.49
1:C:3822:ASP:O	1:C:3824:LYS:NZ	2.30	0.49
1:C:3927:GLN:HG2	1:C:3992:PHE:CE2	2.48	0.49
1:A:233:ILE:HA	1:A:245:VAL:HG12	1.95	0.48
1:A:355:LEU:HB3	1:A:378:LEU:HD22	1.95	0.48
1:A:803:LEU:HD12	1:A:804:PRO:O	2.12	0.48
1:A:1007:TYR:O	1:A:1017:ARG:NE	2.39	0.48
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	1.94	0.48
1:A:2143:THR:OG1	1:A:3651:ASN:ND2	2.46	0.48
1:A:3805:LEU:O	1:A:3890:LEU:HD22	2.13	0.48
1:A:4061:PHE:O	1:A:4064:MET:HG2	2.12	0.48
1:A:4582:VAL:HG22	1:B:4877:ASP:HA	1.95	0.48
1:A:4673:ARG:HH22	1:A:4701:TRP:HB3	1.77	0.48
1:A:4776:GLN:HA	1:A:4779:LYS:HE2	1.95	0.48
1:A:4876:CYS:HA	1:A:4878:ASP:H	1.77	0.48
2:H:42:ARG:NE	2:H:42:ARG:HA	2.28	0.48
2:H:74:LEU:HD12	2:H:101:VAL:HG21	1.94	0.48
2:F:94:HIS:O	2:F:94:HIS:CG	2.66	0.48
1:B:1040:CYS:HA	1:B:1043:VAL:HB	1.95	0.48
1:B:2621:HIS:CG	1:B:2624:ARG:HE	2.30	0.48
1:B:2690:LYS:N	1:B:2690:LYS:HD2	2.27	0.48
1:B:2761:TYR:O	1:B:2765:LYS:HG2	2.13	0.48
1:D:404:ILE:HG23	1:D:483:MET:HE2	1.93	0.48
1:D:455:PRO:HB3	1:D:467:LYS:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:614:VAL:HB	1:D:617:ASN:HB2	1.94	0.48
1:D:935:LEU:HD22	1:D:987:ARG:CZ	2.43	0.48
1:D:1213:PHE:HA	1:D:1216:ILE:HD12	1.95	0.48
1:D:1648:MET:SD	1:D:1652:GLU:HB2	2.53	0.48
1:D:2244:ARG:HH22	1:D:3860:ASN:HD22	1.62	0.48
1:D:3236:VAL:HA	1:D:3239:MET:HG3	1.94	0.48
1:D:3244:PRO:HB3	1:D:3248:ARG:HD3	1.94	0.48
1:D:3629:ARG:NE	1:D:3629:ARG:HA	2.27	0.48
1:D:3720:TYR:O	1:D:3723:MET:HB2	2.13	0.48
1:D:4189:ARG:NH1	1:D:4190:ILE:O	2.45	0.48
1:D:4673:ARG:HH22	1:D:4701:TRP:HB3	1.77	0.48
1:D:4902:GLU:O	1:D:4913:ARG:NH1	2.39	0.48
1:C:283:ARG:HA	1:C:290:TYR:HA	1.94	0.48
1:C:632:LEU:HD12	1:C:1666:THR:HG23	1.96	0.48
1:C:1619:ARG:HH21	1:C:1626:TRP:HE1	1.60	0.48
1:C:1972:ASN:HB3	1:C:1976:ARG:HH21	1.78	0.48
1:C:2480:GLY:O	1:C:2481:LYS:HG2	2.13	0.48
1:C:2715:VAL:HG13	1:C:2953:LYS:HB2	1.95	0.48
1:C:3149:GLN:HE22	1:C:3150:HIS:CE1	2.30	0.48
1:C:3313:ASN:HB2	1:C:3350:ARG:HE	1.78	0.48
1:C:3450:ASN:HA	1:C:3453:ARG:HE	1.78	0.48
1:C:4990:PHE:O	1:C:4993:MET:HG3	2.14	0.48
1:A:278:GLN:HA	1:A:328:LYS:HZ3	1.78	0.48
1:A:294:THR:N	1:A:298:GLY:O	2.35	0.48
1:A:515:TRP:HA	1:A:518:ILE:HD12	1.94	0.48
1:A:921:ASN:HA	1:A:924:MET:HG3	1.94	0.48
1:A:924:MET:O	1:A:928:THR:HG23	2.12	0.48
1:A:961:MET:N	1:A:961:MET:SD	2.86	0.48
1:A:1213:PHE:HA	1:A:1216:ILE:HD12	1.95	0.48
1:A:1681:VAL:O	1:A:1685:LEU:HG	2.12	0.48
1:A:2480:GLY:O	1:A:2481:LYS:HG2	2.13	0.48
1:A:3424:LEU:HD13	1:B:1216:ILE:HG23	1.95	0.48
1:A:3693:LYS:HZ3	1:A:3695:PRO:HA	1.78	0.48
1:A:4578:LEU:HD12	1:B:4879:MET:CG	2.39	0.48
1:A:4717:ASP:C	1:A:4718:LYS:HD3	2.38	0.48
2:H:59:TRP:O	2:H:63:VAL:HG23	2.13	0.48
1:B:935:LEU:HD22	1:B:987:ARG:CZ	2.43	0.48
1:B:1643:GLU:CD	1:B:1643:GLU:H	2.15	0.48
1:B:1695:LEU:O	1:B:1699:GLU:HG2	2.13	0.48
1:B:1839:VAL:O	1:B:1843:LYS:HG2	2.13	0.48
1:B:2358:ILE:HG13	1:B:2359:ARG:NE	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3762:ARG:HH12	1:B:4753:HIS:C	2.22	0.48
1:B:4732:PHE:HB3	1:B:4737:ILE:HD11	1.95	0.48
1:B:4755:GLU:OE1	1:B:4755:GLU:N	2.33	0.48
1:D:213:TYR:CE1	1:D:337:PRO:HB2	2.48	0.48
1:D:1040:CYS:HA	1:D:1043:VAL:HB	1.95	0.48
1:D:1227:ALA:HA	1:D:1230:MET:HG2	1.95	0.48
1:D:1608:MET:SD	1:D:1608:MET:N	2.84	0.48
1:D:2463:LEU:HB2	1:D:2510:TYR:CE1	2.48	0.48
1:D:2480:GLY:O	1:D:2481:LYS:HG2	2.13	0.48
1:D:2715:VAL:HG13	1:D:2953:LYS:HB2	1.95	0.48
1:D:2761:TYR:O	1:D:2765:LYS:HG2	2.13	0.48
1:D:3673:MET:HE1	1:D:3728:ILE:HD13	1.95	0.48
1:D:3766:GLN:HB3	1:D:3769:ARG:HH12	1.77	0.48
1:C:597:HIS:HB3	1:C:1661:ARG:HH11	1.78	0.48
1:C:1663:HIS:NE2	1:C:1711:TYR:OH	2.42	0.48
1:C:2761:TYR:O	1:C:2765:LYS:HG2	2.13	0.48
1:A:125:ARG:HH11	1:A:127:MET:HE1	1.78	0.48
1:A:456:SER:OG	1:A:458:GLU:HG3	2.14	0.48
1:A:838:HIS:ND1	1:A:1201:HIS:HB2	2.27	0.48
1:A:2283:ASN:ND2	1:A:2286:LEU:HG	2.29	0.48
1:A:2644:LEU:HA	1:A:2647:HIS:CE1	2.48	0.48
1:A:3534:MET:N	1:A:3534:MET:SD	2.86	0.48
1:A:3629:ARG:NE	1:A:3629:ARG:HA	2.27	0.48
1:A:3787:LYS:HB2	1:A:3787:LYS:HE3	1.57	0.48
1:A:4189:ARG:NH1	1:A:4190:ILE:O	2.45	0.48
1:A:4573:ILE:O	1:A:4577:LEU:HG	2.13	0.48
2:H:6:THR:HB	2:H:70:GLN:HE21	1.78	0.48
1:B:700:GLU:O	1:B:705:ASN:ND2	2.30	0.48
1:B:829:TYR:O	1:B:840:VAL:N	2.45	0.48
1:B:1227:ALA:HA	1:B:1230:MET:HG2	1.95	0.48
1:B:1574:PRO:HG2	1:B:1577:ALA:HB2	1.96	0.48
1:B:1726:SER:O	1:B:1729:SER:OG	2.24	0.48
1:B:2283:ASN:ND2	1:B:2286:LEU:HG	2.29	0.48
1:B:3014:CYS:SG	1:B:3074:SER:OG	2.59	0.48
1:B:3138:PRO:O	1:B:3141:THR:OG1	2.28	0.48
1:B:3594:ARG:O	1:B:3597:GLN:HG3	2.13	0.48
1:B:4081:VAL:HG22	1:B:4088:ILE:HD12	1.96	0.48
1:B:4578:LEU:HD12	1:C:4879:MET:CG	2.39	0.48
1:B:4717:ASP:C	1:B:4718:LYS:HD3	2.38	0.48
1:B:4933:GLN:O	1:B:4937:ILE:HG12	2.13	0.48
1:D:2272:PRO:O	1:D:2275:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2698:MET:O	1:D:2701:PRO:HD2	2.13	0.48
1:D:2742:THR:HG23	1:D:2745:VAL:HB	1.95	0.48
1:D:3534:MET:N	1:D:3534:MET:SD	2.86	0.48
1:D:4075:GLU:OE2	1:D:4075:GLU:N	2.46	0.48
1:D:4217:PHE:O	1:D:4221:VAL:HG22	2.13	0.48
1:C:213:TYR:CE1	1:C:337:PRO:HB2	2.48	0.48
1:C:456:SER:OG	1:C:458:GLU:HG3	2.14	0.48
1:C:529:LEU:HD22	1:C:536:ASN:HD21	1.79	0.48
1:C:564:LEU:O	1:C:568:LEU:HG	2.13	0.48
1:C:975:VAL:HG21	1:C:1048:GLY:HA2	1.94	0.48
1:C:2178:MET:HE1	1:C:2179:ILE:HG13	1.95	0.48
1:C:3320:LEU:O	1:C:3324:VAL:HG22	2.13	0.48
1:C:3373:VAL:HG11	1:C:3444:TYR:HB3	1.96	0.48
1:C:3805:LEU:O	1:C:3890:LEU:HD22	2.13	0.48
1:C:5019:TRP:HE3	1:C:5021:PHE:HE1	1.60	0.48
1:A:403:MET:HE1	1:A:478:PHE:CZ	2.48	0.48
1:A:891:TRP:CG	1:A:902:ARG:HH21	2.30	0.48
1:A:2698:MET:O	1:A:2701:PRO:HD2	2.13	0.48
1:A:2761:TYR:O	1:A:2765:LYS:HG2	2.13	0.48
1:A:3145:GLN:CG	1:A:3196:ARG:HE	2.25	0.48
1:A:3594:ARG:O	1:A:3597:GLN:HG3	2.13	0.48
1:A:4092:ASP:HA	1:A:4095:LYS:HE2	1.95	0.48
1:A:4732:PHE:HB3	1:A:4737:ILE:HD11	1.95	0.48
1:A:4769:MET:N	1:A:4769:MET:SD	2.86	0.48
2:F:23:VAL:HG22	2:F:45:PRO:HB2	1.94	0.48
1:B:35:LEU:HA	1:B:51:PRO:HA	1.94	0.48
1:B:322:LYS:NZ	1:B:354:GLY:O	2.41	0.48
1:B:456:SER:OG	1:B:458:GLU:HG3	2.14	0.48
1:B:731:THR:O	1:B:765:GLN:NE2	2.46	0.48
1:B:1213:PHE:HA	1:B:1216:ILE:HD12	1.95	0.48
1:B:2516:ASP:HA	1:B:2519:LEU:HD12	1.95	0.48
1:B:3320:LEU:O	1:B:3324:VAL:HG22	2.13	0.48
1:B:4047:MET:HE3	1:B:4048:LEU:HD23	1.95	0.48
1:B:4092:ASP:HA	1:B:4095:LYS:HE2	1.95	0.48
1:D:456:SER:OG	1:D:458:GLU:HG3	2.14	0.48
1:D:731:THR:O	1:D:765:GLN:NE2	2.46	0.48
1:D:921:ASN:HA	1:D:924:MET:HG3	1.94	0.48
1:D:975:VAL:HG21	1:D:1048:GLY:HA2	1.94	0.48
1:D:2283:ASN:ND2	1:D:2286:LEU:HG	2.29	0.48
1:D:2368:LEU:HG	1:D:2376:LEU:HB2	1.96	0.48
1:D:2765:LYS:HD2	1:D:2857:PRO:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3372:VAL:HG21	1:D:3401:LEU:HD21	1.94	0.48
1:D:3450:ASN:HA	1:D:3453:ARG:HE	1.78	0.48
1:D:3805:LEU:O	1:D:3890:LEU:HD22	2.13	0.48
1:D:3927:GLN:HG2	1:D:3992:PHE:CE2	2.48	0.48
1:D:4822:THR:O	1:D:4826:ILE:HG12	2.14	0.48
1:D:4843:LEU:HD13	1:C:4823:LEU:HD13	1.95	0.48
1:C:667:MET:HE3	1:C:668:VAL:N	2.28	0.48
1:C:688:LEU:HD12	1:C:689:THR:H	1.79	0.48
1:C:1106:ARG:NE	1:C:1120:LEU:HB3	2.24	0.48
1:C:1213:PHE:HA	1:C:1216:ILE:HD12	1.95	0.48
1:C:1715:LEU:HD12	1:C:1719:HIS:CD2	2.49	0.48
1:C:2886:TRP:CD1	1:C:2889:LYS:HZ2	2.31	0.48
1:C:2913:ALA:HA	1:C:2916:LYS:HG2	1.94	0.48
1:C:4162:ASN:O	1:C:4166:LEU:HG	2.14	0.48
1:C:4189:ARG:NH1	1:C:4190:ILE:O	2.45	0.48
1:A:564:LEU:O	1:A:568:LEU:HG	2.13	0.48
1:A:868:GLU:HA	1:A:871:ARG:HG3	1.94	0.48
1:A:1801:ALA:O	1:A:1802:ILE:HD13	2.13	0.48
1:A:3000:LYS:HD2	1:A:3000:LYS:H	1.79	0.48
1:A:3373:VAL:HG11	1:A:3444:TYR:HB3	1.95	0.48
1:A:3450:ASN:HA	1:A:3453:ARG:HE	1.78	0.48
1:A:3529:ASP:OD2	1:A:3595:ARG:NH1	2.47	0.48
1:A:3552:PHE:HA	1:A:3555:ASN:HD22	1.79	0.48
1:A:4047:MET:HE3	1:A:4048:LEU:HD23	1.95	0.48
2:E:82:TYR:CD2	2:E:87:HIS:HB2	2.48	0.48
1:B:108:LEU:HB2	1:B:147:TRP:CH2	2.48	0.48
1:B:819:GLU:OE1	1:B:819:GLU:N	2.42	0.48
1:B:1007:TYR:O	1:B:1017:ARG:NE	2.39	0.48
1:B:2004:GLU:HA	1:B:2007:ASN:ND2	2.29	0.48
1:B:2193:GLN:HG3	1:B:2194:HIS:CE1	2.49	0.48
1:B:3424:LEU:HD13	1:C:1216:ILE:HG23	1.96	0.48
1:B:3628:ARG:O	1:B:3628:ARG:HD3	2.13	0.48
1:B:3835:LEU:O	1:B:3838:THR:OG1	2.26	0.48
1:B:4822:THR:O	1:B:4826:ILE:HG12	2.14	0.48
1:B:4902:GLU:H	1:B:4902:GLU:CD	2.18	0.48
1:D:355:LEU:HB3	1:D:378:LEU:HD22	1.95	0.48
1:D:891:TRP:CG	1:D:902:ARG:HH21	2.30	0.48
1:D:1216:ILE:HG23	1:C:3424:LEU:HD13	1.95	0.48
1:D:1815:LEU:HD22	1:D:1845:VAL:HG21	1.95	0.48
1:D:1839:VAL:O	1:D:1843:LYS:HG2	2.13	0.48
1:D:2178:MET:HE1	1:D:2179:ILE:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2644:LEU:HA	1:D:2647:HIS:CE1	2.48	0.48
1:D:2777:TYR:HB3	1:D:2791:LEU:HD21	1.95	0.48
1:D:3313:ASN:HB2	1:D:3350:ARG:HE	1.78	0.48
1:D:3634:ALA:HA	1:D:3637:ARG:HB3	1.95	0.48
1:D:3896:ASN:O	1:D:3900:GLN:HG3	2.12	0.48
1:D:4207:MET:HE3	1:D:4207:MET:HA	1.96	0.48
1:C:2004:GLU:HA	1:C:2007:ASN:ND2	2.29	0.48
1:C:2244:ARG:HH22	1:C:3860:ASN:HD22	1.62	0.48
1:C:3141:THR:HG22	1:C:3193:CYS:HA	1.96	0.48
1:C:3513:THR:O	1:C:3517:MET:HG2	2.12	0.48
1:C:4207:MET:HA	1:C:4207:MET:HE3	1.96	0.48
1:C:4822:THR:O	1:C:4826:ILE:HG12	2.14	0.48
1:A:322:LYS:NZ	1:A:354:GLY:O	2.41	0.48
1:A:558:SER:O	1:A:562:GLU:HG2	2.13	0.48
1:A:1972:ASN:HB3	1:A:1976:ARG:HH21	1.78	0.48
1:A:2368:LEU:HG	1:A:2376:LEU:HB2	1.96	0.48
1:A:3187:ARG:NH2	1:A:3263:TYR:OH	2.38	0.48
1:A:3244:PRO:HB3	1:A:3248:ARG:HD3	1.94	0.48
1:A:4075:GLU:OE2	1:A:4075:GLU:N	2.46	0.48
1:A:4217:PHE:O	1:A:4221:VAL:HG22	2.14	0.48
1:A:4822:THR:O	1:A:4826:ILE:HG12	2.14	0.48
2:E:17:LYS:HG2	2:E:20:GLN:NE2	2.29	0.48
2:G:52:LYS:HE2	2:G:52:LYS:HA	1.95	0.48
2:F:87:HIS:HD2	2:F:88:PRO:HD2	1.78	0.48
1:B:529:LEU:HD22	1:B:536:ASN:HD21	1.79	0.48
1:B:558:SER:O	1:B:562:GLU:HG2	2.13	0.48
1:B:637:LEU:HD21	1:B:1696:HIS:ND1	2.27	0.48
1:B:893:TYR:HA	1:B:904:HIS:O	2.14	0.48
1:B:961:MET:N	1:B:961:MET:SD	2.86	0.48
1:B:1077:ALA:HB3	1:B:1189:LEU:HD22	1.94	0.48
1:B:1534:LYS:N	1:B:1534:LYS:HD3	2.29	0.48
1:B:1972:ASN:HB3	1:B:1976:ARG:HH21	1.78	0.48
1:B:2230:THR:O	1:B:2234:ARG:HG3	2.14	0.48
1:B:2368:LEU:HG	1:B:2376:LEU:HB2	1.96	0.48
1:B:3023:LYS:NZ	1:B:3024:VAL:O	2.42	0.48
1:B:3529:ASP:OD2	1:B:3595:ARG:NH1	2.47	0.48
1:B:3552:PHE:HA	1:B:3555:ASN:HD22	1.79	0.48
1:B:3927:GLN:HG2	1:B:3992:PHE:CE2	2.48	0.48
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.96	0.48
1:B:4963:ILE:HD13	1:B:5030:LYS:HZ1	1.78	0.48
1:B:5019:TRP:HE3	1:B:5021:PHE:HE1	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1253:PRO:O	1:D:1275:ARG:NH1	2.34	0.48
1:D:1514:LEU:HD21	1:D:1516:ILE:HG13	1.96	0.48
1:D:1715:LEU:HD12	1:D:1719:HIS:CD2	2.48	0.48
1:D:1759:ARG:NH1	1:D:1760:HIS:O	2.46	0.48
1:D:1972:ASN:HB3	1:D:1976:ARG:HH21	1.78	0.48
1:D:2440:MET:O	1:D:2444:GLN:HG3	2.13	0.48
1:D:2889:LYS:HD2	1:D:2890:LYS:N	2.27	0.48
1:D:3373:VAL:HG11	1:D:3444:TYR:HB3	1.96	0.48
1:D:3534:MET:O	1:D:3538:THR:HG23	2.13	0.48
1:D:4162:ASN:O	1:D:4166:LEU:HG	2.14	0.48
1:D:4717:ASP:C	1:D:4718:LYS:HD3	2.38	0.48
1:C:233:ILE:HA	1:C:245:VAL:HG12	1.95	0.48
1:C:558:SER:O	1:C:562:GLU:HG2	2.14	0.48
1:C:663:TYR:CE1	1:C:745:SER:HB2	2.44	0.48
1:C:1514:LEU:HD21	1:C:1516:ILE:HG13	1.96	0.48
1:C:1570:LYS:NZ	1:C:1571:ASN:OD1	2.45	0.48
1:C:2193:GLN:HG3	1:C:2194:HIS:CE1	2.49	0.48
1:C:2272:PRO:O	1:C:2275:VAL:HG12	2.13	0.48
1:C:3018:LEU:HB3	1:C:3025:LEU:HD12	1.96	0.48
1:C:3244:PRO:HB3	1:C:3248:ARG:HD3	1.94	0.48
1:C:3604:TYR:O	1:C:3608:GLN:HG2	2.14	0.48
1:C:4047:MET:HE3	1:C:4048:LEU:HD23	1.95	0.48
1:C:4776:GLN:HA	1:C:4779:LYS:HE2	1.95	0.48
1:A:108:LEU:HB2	1:A:147:TRP:CH2	2.48	0.48
1:A:283:ARG:HA	1:A:290:TYR:HA	1.94	0.48
1:A:597:HIS:HB3	1:A:1661:ARG:HH11	1.78	0.48
1:A:893:TYR:HA	1:A:904:HIS:O	2.14	0.48
1:A:1044:ARG:O	1:A:1044:ARG:NE	2.47	0.48
1:A:2244:ARG:HH22	1:A:3860:ASN:HD22	1.62	0.48
1:A:2272:PRO:O	1:A:2275:VAL:HG12	2.13	0.48
1:A:2440:MET:O	1:A:2444:GLN:HG3	2.13	0.48
1:A:2516:ASP:HA	1:A:2519:LEU:HD12	1.95	0.48
1:A:3628:ARG:O	1:A:3628:ARG:HD3	2.13	0.48
1:A:4677:LEU:HD12	1:A:4678:ALA:N	2.28	0.48
1:B:203:ASN:HD21	1:B:268:SER:HB2	1.79	0.48
1:B:394:GLN:OE1	1:B:397:GLU:N	2.32	0.48
1:B:403:MET:HE1	1:B:478:PHE:CZ	2.48	0.48
1:B:597:HIS:HB3	1:B:1661:ARG:HH11	1.78	0.48
1:B:688:LEU:HD12	1:B:689:THR:H	1.79	0.48
1:B:1229:ASN:OD1	1:B:1826:ALA:HA	2.12	0.48
1:B:1263:THR:N	1:B:1266:THR:O	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1715:LEU:HD12	1:B:1719:HIS:CD2	2.48	0.48
1:B:2419:GLY:O	1:B:2423:MET:HG2	2.13	0.48
1:B:2644:LEU:HA	1:B:2647:HIS:CE1	2.48	0.48
1:B:3373:VAL:HG11	1:B:3444:TYR:HB3	1.95	0.48
1:B:3379:LEU:HD11	1:B:3394:VAL:HG11	1.96	0.48
1:D:260:TRP:CE2	1:D:284:HIS:HD2	2.32	0.48
1:D:632:LEU:HD12	1:D:1666:THR:HG23	1.95	0.48
1:D:2004:GLU:HA	1:D:2007:ASN:ND2	2.29	0.48
1:D:4581:LYS:HE2	1:D:4633:GLU:HB2	1.96	0.48
1:D:4769:MET:N	1:D:4769:MET:SD	2.86	0.48
1:C:548:VAL:HA	1:C:551:LEU:HG	1.96	0.48
1:C:896:VAL:HB	1:C:901:LYS:HE2	1.95	0.48
1:C:979:PRO:O	1:C:982:THR:OG1	2.22	0.48
1:C:1007:TYR:O	1:C:1017:ARG:NE	2.39	0.48
1:C:1182:ILE:HD12	1:C:1182:ILE:H	1.79	0.48
1:C:1534:LYS:HD3	1:C:1534:LYS:N	2.29	0.48
1:C:1815:LEU:HD22	1:C:1845:VAL:HG21	1.95	0.48
1:C:2368:LEU:HG	1:C:2376:LEU:HB2	1.96	0.48
1:C:2419:GLY:O	1:C:2423:MET:HG2	2.13	0.48
1:C:2765:LYS:HD2	1:C:2857:PRO:HB3	1.95	0.48
1:C:3428:ASN:OD1	1:C:3431:ALA:N	2.45	0.48
1:C:3529:ASP:OD2	1:C:3595:ARG:NH1	2.47	0.48
1:C:3673:MET:HE1	1:C:3728:ILE:HD13	1.96	0.48
1:C:3702:VAL:O	1:C:3778:MET:HE1	2.12	0.48
1:C:3762:ARG:HH12	1:C:4753:HIS:C	2.22	0.48
1:C:4092:ASP:HA	1:C:4095:LYS:HE2	1.95	0.48
1:C:4581:LYS:HE2	1:C:4633:GLU:HB2	1.96	0.48
1:C:4682:GLU:O	1:C:4727:LYS:NZ	2.40	0.48
1:A:267:ILE:O	1:A:270:SER:OG	2.24	0.48
1:A:1182:ILE:H	1:A:1182:ILE:HD12	1.79	0.48
1:A:1457:TYR:O	1:A:1458:HIS:ND1	2.47	0.48
1:A:1514:LEU:HD21	1:A:1516:ILE:HG13	1.96	0.48
1:A:2107:GLN:HG3	1:A:3683:GLN:NE2	2.28	0.48
1:A:2178:MET:HE1	1:A:2179:ILE:HG13	1.95	0.48
1:A:2267:MET:HG3	1:A:2271:THR:HG22	1.95	0.48
1:A:2742:THR:HG23	1:A:2745:VAL:HB	1.95	0.48
1:A:3673:MET:HE1	1:A:3728:ILE:HD13	1.96	0.48
1:B:260:TRP:CE2	1:B:284:HIS:HD2	2.32	0.48
1:B:355:LEU:HB3	1:B:378:LEU:HD22	1.95	0.48
1:B:1478:ASP:OD1	1:B:1479:GLU:N	2.40	0.48
1:B:2913:ALA:HA	1:B:2916:LYS:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3171:SER:OG	1:B:3172:ILE:N	2.46	0.48
1:B:3450:ASN:HA	1:B:3453:ARG:HE	1.78	0.48
1:B:3533:ILE:HG22	1:B:3537:LYS:HZ2	1.79	0.48
1:B:3905:THR:HG23	1:B:3912:THR:HG21	1.96	0.48
1:B:4756:ARG:NH1	1:B:4757:LYS:H	2.12	0.48
1:D:108:LEU:HB2	1:D:147:TRP:CH2	2.48	0.48
1:D:667:MET:HE3	1:D:668:VAL:N	2.28	0.48
1:D:1478:ASP:OD1	1:D:1479:GLU:N	2.40	0.48
1:D:3138:PRO:O	1:D:3141:THR:OG1	2.28	0.48
1:D:3693:LYS:HZ3	1:D:3695:PRO:HA	1.78	0.48
1:C:403:MET:HE1	1:C:478:PHE:CZ	2.48	0.48
1:C:1839:VAL:O	1:C:1843:LYS:HG2	2.13	0.48
1:C:2267:MET:HG3	1:C:2271:THR:HG22	1.95	0.48
1:C:2271:THR:H	1:C:2274:ASP:HB2	1.79	0.48
1:C:2644:LEU:HA	1:C:2647:HIS:CE1	2.48	0.48
1:C:3573:MET:SD	1:C:3573:MET:N	2.87	0.48
1:C:3720:TYR:O	1:C:3723:MET:HB2	2.13	0.48
1:C:4214:LYS:HE3	1:C:4214:LYS:HB3	1.73	0.48
1:C:4732:PHE:CD2	1:C:4736:ARG:HB3	2.49	0.48
1:C:4769:MET:N	1:C:4769:MET:SD	2.86	0.48
1:C:4933:GLN:O	1:C:4937:ILE:HG12	2.13	0.48
1:A:213:TYR:CE1	1:A:337:PRO:HB2	2.48	0.48
1:A:260:TRP:CE2	1:A:284:HIS:HD2	2.32	0.48
1:A:925:SER:O	1:A:929:LEU:HG	2.14	0.48
1:A:979:PRO:O	1:A:982:THR:OG1	2.22	0.48
1:A:1227:ALA:HA	1:A:1230:MET:HG2	1.95	0.48
1:A:1726:SER:O	1:A:1729:SER:OG	2.24	0.48
1:A:1759:ARG:NH1	1:A:1760:HIS:O	2.46	0.48
1:A:1939:MET:O	1:A:1943:LEU:HG	2.14	0.48
1:A:2578:MET:HE3	1:A:2582:MET:HG3	1.96	0.48
1:A:3081:MET:C	1:A:3081:MET:HE2	2.39	0.48
1:A:3379:LEU:HD11	1:A:3394:VAL:HG11	1.96	0.48
1:A:3560:GLN:OE1	1:A:3560:GLN:N	2.30	0.48
1:A:3604:TYR:O	1:A:3608:GLN:HG2	2.14	0.48
1:A:3905:THR:HG23	1:A:3912:THR:HG21	1.96	0.48
1:A:3906:GLN:H	1:A:3912:THR:HG23	1.79	0.48
1:A:4697:VAL:HG23	1:A:4698:LYS:HD3	1.96	0.48
1:A:4933:GLN:O	1:A:4937:ILE:HG12	2.13	0.48
2:E:27:THR:HA	2:E:38:SER:HA	1.94	0.48
1:B:515:TRP:HA	1:B:518:ILE:HD12	1.95	0.48
1:B:632:LEU:HD12	1:B:1666:THR:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.95	0.48
1:B:2175:GLU:CB	1:B:2228:MET:HE1	2.34	0.48
1:B:2271:THR:H	1:B:2274:ASP:HB2	1.79	0.48
1:B:3018:LEU:HB3	1:B:3025:LEU:HD12	1.96	0.48
1:B:4769:MET:SD	1:B:4769:MET:N	2.86	0.48
1:D:803:LEU:HD12	1:D:804:PRO:O	2.12	0.48
1:D:893:TYR:HA	1:D:904:HIS:O	2.14	0.48
1:D:1457:TYR:O	1:D:1458:HIS:ND1	2.47	0.48
1:D:1574:PRO:HG2	1:D:1577:ALA:HB2	1.96	0.48
1:D:2417:HIS:HB2	1:D:2492:ALA:HA	1.96	0.48
1:D:2423:MET:CE	1:D:2494:PHE:HA	2.29	0.48
1:D:2797:PHE:HE1	1:D:2802:LYS:HG2	1.78	0.48
1:D:3081:MET:C	1:D:3081:MET:HE2	2.39	0.48
1:D:3533:ILE:HG22	1:D:3537:LYS:NZ	2.29	0.48
1:D:3628:ARG:O	1:D:3628:ARG:HD3	2.13	0.48
1:C:1093:GLU:N	1:C:1201:HIS:O	2.35	0.48
1:C:1727:ARG:HA	1:C:1730:MET:HE3	1.96	0.48
1:C:3545:THR:OG1	1:C:3547:GLU:OE1	2.21	0.48
1:C:4217:PHE:O	1:C:4221:VAL:HG22	2.13	0.48
1:C:4756:ARG:NH1	1:C:4757:LYS:H	2.12	0.48
1:A:103:TYR:OH	1:A:167:ASP:OD2	2.30	0.48
1:A:462:GLU:H	1:A:462:GLU:CD	2.18	0.48
1:A:529:LEU:HD22	1:A:536:ASN:HD21	1.79	0.48
1:A:588:SER:HB2	1:A:1582:SER:HB3	1.96	0.48
1:A:2760:GLU:HG2	1:A:2797:PHE:CE2	2.49	0.48
1:A:3018:LEU:HB3	1:A:3025:LEU:HD12	1.96	0.48
1:A:3320:LEU:O	1:A:3324:VAL:HG22	2.13	0.48
1:A:3812:VAL:O	1:A:3816:MET:HG2	2.14	0.48
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.29	0.48
2:G:24:VAL:HG12	2:G:103:LEU:HA	1.95	0.48
2:F:25:HIS:HB3	2:F:40:ARG:HE	1.79	0.48
1:B:588:SER:HB2	1:B:1582:SER:HB3	1.96	0.48
1:B:925:SER:O	1:B:929:LEU:HG	2.14	0.48
1:B:1514:LEU:HD21	1:B:1516:ILE:HG13	1.96	0.48
1:B:1608:MET:SD	1:B:1608:MET:N	2.84	0.48
1:B:2765:LYS:HD2	1:B:2857:PRO:HB3	1.95	0.48
1:B:2777:TYR:HB3	1:B:2791:LEU:HD21	1.95	0.48
1:B:2797:PHE:HE1	1:B:2802:LYS:HG2	1.78	0.48
1:B:2874:MET:HE3	1:B:2937:VAL:HG22	1.95	0.48
1:B:3361:THR:O	1:B:3365:LEU:HD23	2.14	0.48
1:B:4776:GLN:HA	1:B:4779:LYS:HE2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:67:PHE:CE2	1:D:111:HIS:HB2	2.49	0.48
1:D:103:TYR:OH	1:D:167:ASP:OD2	2.30	0.48
1:D:283:ARG:NH1	1:D:284:HIS:O	2.47	0.48
1:D:294:THR:N	1:D:298:GLY:O	2.35	0.48
1:D:896:VAL:HB	1:D:901:LYS:HE2	1.95	0.48
1:D:1463:ASN:OD1	1:D:1463:ASN:N	2.47	0.48
1:D:1596:GLU:OE1	1:D:1597:VAL:N	2.46	0.48
1:D:2874:MET:HE3	1:D:2937:VAL:HG22	1.96	0.48
1:D:3000:LYS:HD2	1:D:3000:LYS:H	1.79	0.48
1:D:3320:LEU:O	1:D:3324:VAL:HG22	2.13	0.48
1:D:3906:GLN:H	1:D:3912:THR:HG23	1.79	0.48
1:D:4047:MET:HE3	1:D:4048:LEU:HD23	1.95	0.48
1:C:203:ASN:HD21	1:C:268:SER:HB2	1.79	0.48
1:C:1574:PRO:HG2	1:C:1577:ALA:HB2	1.96	0.48
1:C:1690:ASP:CG	1:C:1693:GLN:H	2.22	0.48
1:C:1726:SER:O	1:C:1729:SER:OG	2.24	0.48
1:C:2226:PRO:HB2	1:C:2268[B]:GLN:HE21	1.79	0.48
1:C:2950:SER:HA	1:C:2953:LYS:HE2	1.95	0.48
1:C:3372:VAL:HG21	1:C:3401:LEU:HD21	1.94	0.48
1:C:3693:LYS:HZ3	1:C:3695:PRO:HA	1.78	0.48
1:C:3707:ARG:O	1:C:3711:THR:OG1	2.27	0.48
1:C:3841:VAL:C	1:C:3875:MET:HE1	2.39	0.48
1:A:688:LEU:HD12	1:A:689:THR:H	1.79	0.47
1:A:819:GLU:OE1	1:A:819:GLU:N	2.42	0.47
1:A:1534:LYS:HD3	1:A:1534:LYS:N	2.29	0.47
1:A:1574:PRO:HG2	1:A:1577:ALA:HB2	1.96	0.47
1:A:1839:VAL:O	1:A:1843:LYS:HG2	2.13	0.47
1:A:2189:LYS:HA	1:A:2192:TYR:CD2	2.49	0.47
1:A:2765:LYS:HD2	1:A:2857:PRO:HB3	1.95	0.47
1:A:2913:ALA:HA	1:A:2916:LYS:HG2	1.94	0.47
1:A:3535:LEU:O	1:A:3538:THR:OG1	2.30	0.47
1:A:3720:TYR:O	1:A:3723:MET:HB2	2.13	0.47
1:A:3927:GLN:HG2	1:A:3992:PHE:CE2	2.48	0.47
1:A:4902:GLU:O	1:A:4913:ARG:NH1	2.39	0.47
1:A:4990:PHE:O	1:A:4993:MET:HG3	2.14	0.47
2:H:29:MET:N	2:H:29:MET:HE3	2.29	0.47
2:F:8:SER:OG	2:F:71:ARG:HB3	2.13	0.47
1:B:157:ARG:HD3	1:B:157:ARG:HA	1.67	0.47
1:B:1215:ALA:HA	1:B:1219:LEU:HD22	1.96	0.47
1:B:2244:ARG:HH22	1:B:3860:ASN:HD22	1.62	0.47
1:B:2267:MET:HG3	1:B:2271:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2272:PRO:O	1:B:2275:VAL:HG12	2.13	0.47
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.14	0.47
1:B:3634:ALA:HA	1:B:3637:ARG:HB3	1.95	0.47
1:B:3693:LYS:HZ3	1:B:3695:PRO:HA	1.78	0.47
1:B:3841:VAL:C	1:B:3875:MET:HE1	2.39	0.47
1:B:4217:PHE:O	1:B:4221:VAL:HG22	2.14	0.47
1:D:529:LEU:HD22	1:D:536:ASN:HD21	1.79	0.47
1:D:558:SER:O	1:D:562:GLU:HG2	2.13	0.47
1:D:688:LEU:HD12	1:D:689:THR:H	1.79	0.47
1:D:1619:ARG:HH21	1:D:1626:TRP:HE1	1.60	0.47
1:D:1682:ALA:HA	1:D:1685:LEU:HD12	1.96	0.47
1:D:2230:THR:O	1:D:2234:ARG:HG3	2.14	0.47
1:D:3189:ALA:O	1:D:3192:GLU:HG3	2.14	0.47
1:D:3361:THR:O	1:D:3365:LEU:HD23	2.14	0.47
1:D:3552:PHE:HA	1:D:3555:ASN:HD22	1.79	0.47
1:D:3604:TYR:O	1:D:3608:GLN:HG2	2.14	0.47
1:D:3905:THR:HG23	1:D:3912:THR:HG21	1.96	0.47
1:D:4756:ARG:NH1	1:D:4757:LYS:H	2.12	0.47
1:C:283:ARG:NH1	1:C:284:HIS:O	2.47	0.47
1:C:995:VAL:HG22	1:C:998:ARG:NH2	2.29	0.47
1:C:1040:CYS:HA	1:C:1043:VAL:HB	1.95	0.47
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	1.94	0.47
1:C:2742:THR:HG23	1:C:2745:VAL:HB	1.95	0.47
1:C:3552:PHE:HA	1:C:3555:ASN:HD22	1.78	0.47
1:C:3812:VAL:O	1:C:3816:MET:HG2	2.14	0.47
1:C:3905:THR:HG23	1:C:3912:THR:HG21	1.96	0.47
1:C:4081:VAL:HG22	1:C:4088:ILE:HD12	1.95	0.47
1:C:4725:LEU:HA	1:C:4737:ILE:HG21	1.96	0.47
1:A:667:MET:HE3	1:A:668:VAL:N	2.28	0.47
1:A:935:LEU:HD22	1:A:987:ARG:CZ	2.43	0.47
1:A:1619:ARG:HH21	1:A:1626:TRP:HE1	1.60	0.47
1:A:1815:LEU:HD22	1:A:1845:VAL:HG21	1.95	0.47
1:A:2175:GLU:CB	1:A:2228:MET:HE1	2.34	0.47
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.14	0.47
1:A:2439:GLU:O	1:A:2443:ILE:HG12	2.14	0.47
1:A:3215:ALA:O	1:A:3220:THR:OG1	2.25	0.47
1:A:3396:ASP:O	1:A:3400:VAL:HG13	2.14	0.47
2:H:105:LYS:HZ3	2:H:106:LEU:H	1.60	0.47
1:B:170:ILE:HG13	1:B:179:TYR:CD1	2.49	0.47
1:B:548:VAL:HA	1:B:551:LEU:HG	1.96	0.47
1:B:1543:GLU:O	1:B:1546:THR:OG1	2.19	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1727:ARG:O	1:B:1731:LEU:HG	2.14	0.47
1:B:1838:PHE:O	1:B:1842:LEU:HD12	2.14	0.47
1:B:2178:MET:HE1	1:B:2179:ILE:HG13	1.95	0.47
1:B:2351:ASN:O	1:B:2355:ARG:HG2	2.15	0.47
1:B:3573:MET:SD	1:B:3573:MET:N	2.87	0.47
1:B:3604:TYR:O	1:B:3608:GLN:HG2	2.14	0.47
1:B:3920:VAL:O	1:B:3924:LEU:HG	2.14	0.47
1:B:4162:ASN:O	1:B:4166:LEU:HG	2.14	0.47
1:B:4662:ASN:O	1:B:4666:VAL:HB	2.14	0.47
1:B:4990:PHE:O	1:B:4993:MET:HG3	2.14	0.47
1:D:548:VAL:HA	1:D:551:LEU:HG	1.96	0.47
1:D:1007:TYR:CE1	1:D:1019:PRO:HA	2.49	0.47
1:D:1077:ALA:HB3	1:D:1189:LEU:HD22	1.94	0.47
1:D:1440:PHE:CZ	1:D:1563:GLN:HB2	2.49	0.47
1:D:1690:ASP:CG	1:D:1693:GLN:H	2.22	0.47
1:D:1838:PHE:O	1:D:1842:LEU:HD12	2.14	0.47
1:D:2909:ASP:OD1	1:D:2909:ASP:N	2.46	0.47
1:D:3141:THR:HG22	1:D:3193:CYS:HA	1.96	0.47
1:D:3379:LEU:HD11	1:D:3394:VAL:HG11	1.96	0.47
1:D:3573:MET:SD	1:D:3573:MET:N	2.87	0.47
1:D:4990:PHE:O	1:D:4993:MET:HG3	2.13	0.47
1:C:1215:ALA:HA	1:C:1219:LEU:HD22	1.96	0.47
1:C:1682:ALA:HA	1:C:1685:LEU:HD12	1.96	0.47
1:C:2230:THR:O	1:C:2234:ARG:HG3	2.14	0.47
1:C:2417:HIS:HB2	1:C:2492:ALA:HA	1.96	0.47
1:C:2559:LEU:HB2	1:C:2560:PRO:HD3	1.96	0.47
1:C:2797:PHE:HE1	1:C:2802:LYS:HG2	1.79	0.47
1:C:3249:LEU:O	1:C:3253:ILE:HG12	2.14	0.47
1:C:3396:ASP:O	1:C:3400:VAL:HG13	2.14	0.47
1:C:3594:ARG:O	1:C:3597:GLN:HG3	2.13	0.47
1:C:3920:VAL:O	1:C:3924:LEU:HG	2.14	0.47
1:A:175:SER:HA	1:D:2452:ARG:HH11	1.78	0.47
1:A:292:ALA:HB2	1:A:312:THR:HG23	1.97	0.47
1:A:1119:GLU:OE2	1:A:1119:GLU:N	2.47	0.47
1:A:1601:MET:CE	1:A:1604:SER:HB3	2.44	0.47
1:A:2271:THR:H	1:A:2274:ASP:HB2	1.79	0.47
1:A:3534:MET:O	1:A:3538:THR:HG23	2.13	0.47
1:A:3670:GLU:HG2	1:A:3728:ILE:HG12	1.96	0.47
1:A:4725:LEU:HA	1:A:4737:ILE:HG21	1.96	0.47
1:A:4756:ARG:NH1	1:A:4757:LYS:H	2.12	0.47
2:G:82:TYR:CD2	2:G:87:HIS:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:ARG:HH11	1:B:127:MET:HE1	1.78	0.47
1:B:877:ASN:O	1:B:880:GLU:HG3	2.15	0.47
1:B:904:HIS:CD2	1:B:906:CYS:HG	2.26	0.47
1:B:995:VAL:HG22	1:B:998:ARG:NH2	2.29	0.47
1:B:1182:ILE:H	1:B:1182:ILE:HD12	1.79	0.47
1:B:1682:ALA:HA	1:B:1685:LEU:HD12	1.96	0.47
1:B:2495:VAL:HG22	1:B:2498:HIS:ND1	2.29	0.47
1:B:3081:MET:C	1:B:3081:MET:HE2	2.39	0.47
1:B:3522:LEU:HD22	1:C:1220:GLN:OE1	2.14	0.47
1:B:3533:ILE:HG22	1:B:3537:LYS:NZ	2.29	0.47
1:B:3534:MET:O	1:B:3538:THR:HG23	2.13	0.47
1:B:3983:SER:OG	1:B:3985:LEU:HG	2.14	0.47
1:B:4207:MET:HA	1:B:4207:MET:HE3	1.96	0.47
1:B:4732:PHE:CD2	1:B:4736:ARG:HB3	2.49	0.47
1:D:233:ILE:HA	1:D:245:VAL:HG12	1.95	0.47
1:D:257:ARG:O	1:D:284:HIS:NE2	2.35	0.47
1:D:1182:ILE:H	1:D:1182:ILE:HD12	1.79	0.47
1:D:1727:ARG:HA	1:D:1730:MET:HE3	1.96	0.47
1:D:2157:GLU:O	1:D:2161:GLN:HG2	2.14	0.47
1:D:2226:PRO:HB2	1:D:2268[B]:GLN:HE21	1.79	0.47
1:D:2439:GLU:O	1:D:2443:ILE:HG12	2.14	0.47
1:D:3249:LEU:O	1:D:3253:ILE:HG12	2.14	0.47
1:D:3812:VAL:O	1:D:3816:MET:HG2	2.14	0.47
1:C:355:LEU:HB3	1:C:378:LEU:HD22	1.95	0.47
1:C:961:MET:SD	1:C:961:MET:N	2.86	0.47
1:C:1440:PHE:CZ	1:C:1563:GLN:HB2	2.49	0.47
1:C:1727:ARG:O	1:C:1731:LEU:HG	2.14	0.47
1:C:1939:MET:O	1:C:1943:LEU:HG	2.14	0.47
1:C:2463:LEU:HB2	1:C:2510:TYR:CE1	2.48	0.47
1:C:3189:ALA:O	1:C:3192:GLU:HG3	2.14	0.47
1:C:3361:THR:O	1:C:3365:LEU:HD23	2.14	0.47
1:C:3498:ARG:HB3	1:C:3499:ARG:H	1.51	0.47
1:C:3628:ARG:O	1:C:3628:ARG:HD3	2.13	0.47
1:C:3634:ALA:HA	1:C:3637:ARG:HB3	1.95	0.47
1:A:1255:TYR:HD1	1:A:1272:LEU:HD11	1.80	0.47
1:A:1463:ASN:OD1	1:A:1463:ASN:N	2.47	0.47
1:A:1727:ARG:O	1:A:1731:LEU:HG	2.14	0.47
1:A:2004:GLU:HA	1:A:2007:ASN:ND2	2.29	0.47
1:A:2495:VAL:HG22	1:A:2498:HIS:ND1	2.29	0.47
1:A:3145:GLN:HA	1:A:3196:ARG:HH21	1.80	0.47
1:A:3189:ALA:O	1:A:3192:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3361:THR:O	1:A:3365:LEU:HD23	2.14	0.47
1:A:3762:ARG:HH12	1:A:4753:HIS:C	2.22	0.47
1:A:4162:ASN:O	1:A:4166:LEU:HG	2.14	0.47
2:E:24:VAL:O	2:E:46:PHE:N	2.44	0.47
2:H:18:ARG:HH11	2:H:19:GLY:N	2.12	0.47
2:F:25:HIS:CG	2:F:40:ARG:HE	2.32	0.47
1:B:1007:TYR:CE1	1:B:1019:PRO:HA	2.49	0.47
1:B:1255:TYR:HD1	1:B:1272:LEU:HD11	1.80	0.47
1:B:2417:HIS:HB2	1:B:2492:ALA:HA	1.96	0.47
1:B:2547:ALA:HA	1:B:2550:LEU:HD23	1.96	0.47
1:B:2952:GLU:O	1:B:2957:PHE:HB3	2.15	0.47
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.15	0.47
1:B:4902:GLU:OE2	1:B:4902:GLU:N	2.26	0.47
1:D:403:MET:HE1	1:D:478:PHE:CZ	2.48	0.47
1:D:961:MET:N	1:D:961:MET:SD	2.86	0.47
1:D:1534:LYS:HD3	1:D:1534:LYS:N	2.29	0.47
1:D:2267:MET:HG3	1:D:2271:THR:HG22	1.95	0.47
1:D:2462:PRO:HB2	1:D:2465:ASP:HB2	1.97	0.47
1:D:2499:LYS:HA	1:D:2502:MET:HG2	1.96	0.47
1:D:2760:GLU:HG2	1:D:2797:PHE:CE2	2.49	0.47
1:D:3018:LEU:HB3	1:D:3025:LEU:HD12	1.96	0.47
1:D:3145:GLN:HA	1:D:3196:ARG:HH21	1.80	0.47
1:D:3920:VAL:O	1:D:3924:LEU:HG	2.14	0.47
1:D:4081:VAL:HG22	1:D:4088:ILE:HD12	1.96	0.47
1:D:4843:LEU:HD22	1:C:4823:LEU:HD13	1.97	0.47
1:C:108:LEU:HB2	1:C:147:TRP:CH2	2.48	0.47
1:C:588:SER:HB2	1:C:1582:SER:HB3	1.96	0.47
1:C:3504:SER:O	1:C:3508:SER:N	2.48	0.47
1:C:3670:GLU:HG2	1:C:3728:ILE:HG12	1.96	0.47
1:C:4677:LEU:HD12	1:C:4678:ALA:N	2.28	0.47
1:A:663:TYR:CE1	1:A:745:SER:HB2	2.44	0.47
1:A:1215:ALA:HA	1:A:1219:LEU:HD22	1.96	0.47
1:A:1254:HIS:HB3	1:A:1274:HIS:HE1	1.80	0.47
1:A:1422:ASP:N	1:A:1422:ASP:OD1	2.43	0.47
1:A:1838:PHE:O	1:A:1842:LEU:HD12	2.14	0.47
1:A:2230:THR:O	1:A:2234:ARG:HG3	2.14	0.47
1:A:2462:PRO:HB2	1:A:2465:ASP:HB2	1.97	0.47
1:A:2950:SER:HA	1:A:2953:LYS:HE2	1.96	0.47
1:A:3398:PHE:HA	1:A:3401:LEU:HG	1.97	0.47
1:A:3533:ILE:HG22	1:A:3537:LYS:NZ	2.29	0.47
1:A:3573:MET:SD	1:A:3573:MET:N	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3634:ALA:HA	1:A:3637:ARG:HB3	1.95	0.47
1:A:3997:ALA:HA	1:A:4000:MET:SD	2.55	0.47
1:A:4662:ASN:O	1:A:4666:VAL:HB	2.14	0.47
2:E:23:VAL:HG12	2:E:105:LYS:O	2.14	0.47
2:H:82:TYR:CD2	2:H:87:HIS:HB2	2.49	0.47
2:F:7:ILE:HD12	2:F:72:ALA:HA	1.95	0.47
1:B:11:VAL:HG11	1:B:164:ARG:HB3	1.96	0.47
1:B:1463:ASN:N	1:B:1463:ASN:OD1	2.47	0.47
1:B:2157:GLU:O	1:B:2161:GLN:HG2	2.14	0.47
1:B:2189:LYS:HA	1:B:2192:TYR:CD2	2.49	0.47
1:B:2760:GLU:HG2	1:B:2797:PHE:CE2	2.49	0.47
1:B:3532:LEU:HD23	1:B:3533:ILE:HD13	1.96	0.47
1:D:170:ILE:HG13	1:D:179:TYR:CD1	2.49	0.47
1:D:210:GLU:OE2	1:D:273:HIS:NE2	2.48	0.47
1:D:214:VAL:HG22	1:D:339:ILE:HB	1.97	0.47
1:D:887:ILE:HG23	1:D:888:GLU:OE1	2.15	0.47
1:D:1141:ARG:NH1	1:C:3478:MET:HE3	2.20	0.47
1:D:1215:ALA:HA	1:D:1219:LEU:HD22	1.96	0.47
1:D:1939:MET:O	1:D:1943:LEU:HG	2.14	0.47
1:D:2193:GLN:HG3	1:D:2194:HIS:CE1	2.49	0.47
1:D:2883:HIS:CE1	1:D:2905:LEU:HD22	2.48	0.47
1:D:2966:TRP:HB3	1:D:2998:PHE:HE2	1.79	0.47
1:D:3398:PHE:HA	1:D:3401:LEU:HG	1.97	0.47
1:D:3428:ASN:OD1	1:D:3431:ALA:N	2.45	0.47
1:D:4715:TYR:HE2	1:D:4717:ASP:HB3	1.79	0.47
1:D:4788:SER:O	1:D:4792:LEU:HG	2.15	0.47
1:C:639:ASN:N	1:C:678:GLN:OE1	2.40	0.47
1:C:1254:HIS:HB3	1:C:1274:HIS:HE1	1.80	0.47
1:C:1596:GLU:OE1	1:C:1597:VAL:N	2.46	0.47
1:C:2777:TYR:HB3	1:C:2791:LEU:HD21	1.95	0.47
1:C:3906:GLN:H	1:C:3912:THR:HG23	1.79	0.47
1:C:4555:LEU:HD21	1:C:4659:ILE:HG23	1.94	0.47
1:A:2496:PRO:HB3	1:A:2553:TYR:CZ	2.50	0.47
1:A:3249:LEU:O	1:A:3253:ILE:HG12	2.14	0.47
1:A:4207:MET:HA	1:A:4207:MET:HE3	1.96	0.47
2:E:8:SER:O	2:E:70:GLN:HG3	2.14	0.47
2:F:59:TRP:O	2:F:63:VAL:HG23	2.15	0.47
2:F:93:PRO:O	2:F:94:HIS:ND1	2.48	0.47
1:B:67:PHE:CE2	1:B:111:HIS:HB2	2.49	0.47
1:B:321:GLU:N	1:B:321:GLU:OE2	2.44	0.47
1:B:515:TRP:O	1:B:519:VAL:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:830:ARG:HD3	1:B:1612:PHE:CE1	2.50	0.47
1:B:1440:PHE:CZ	1:B:1563:GLN:HB2	2.49	0.47
1:B:1690:ASP:CG	1:B:1693:GLN:H	2.22	0.47
1:B:2226:PRO:HB2	1:B:2268[B]:GLN:HE21	1.79	0.47
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.14	0.47
1:B:2527:LEU:N	1:B:2528:PRO:HD2	2.30	0.47
1:B:3141:THR:HG22	1:B:3193:CYS:HA	1.96	0.47
1:B:3172:ILE:HA	1:B:3175:LEU:HD12	1.97	0.47
1:B:3396:ASP:O	1:B:3400:VAL:HG13	2.14	0.47
1:B:3673:MET:HE1	1:B:3728:ILE:HD13	1.96	0.47
1:D:11:VAL:HG11	1:D:164:ARG:HB3	1.96	0.47
1:D:183:SER:OG	1:D:186:SER:OG	2.32	0.47
1:D:2527:LEU:N	1:D:2528:PRO:HD2	2.30	0.47
1:D:3594:ARG:O	1:D:3597:GLN:HG3	2.13	0.47
1:D:3762:ARG:HH12	1:D:4753:HIS:C	2.22	0.47
1:D:4732:PHE:CD2	1:D:4736:ARG:HB3	2.49	0.47
1:D:4975:PHE:O	1:D:4979:THR:HG23	2.15	0.47
1:C:260:TRP:CE2	1:C:284:HIS:HD2	2.32	0.47
1:C:349:GLN:HE22	1:C:355:LEU:C	2.23	0.47
1:C:1255:TYR:HD1	1:C:1272:LEU:HD11	1.80	0.47
1:C:1838:PHE:O	1:C:1842:LEU:HD12	2.14	0.47
1:C:2287:ALA:HB1	1:C:2346:VAL:HG21	1.96	0.47
1:C:2423:MET:CE	1:C:2494:PHE:HA	2.29	0.47
1:C:2476:ILE:HD11	1:C:2541:PHE:HE2	1.80	0.47
1:C:3145:GLN:CG	1:C:3196:ARG:HE	2.25	0.47
1:C:3533:ILE:HG22	1:C:3537:LYS:NZ	2.29	0.47
1:C:3835:LEU:O	1:C:3838:THR:OG1	2.26	0.47
1:C:3950:ASN:HA	1:C:3953:LYS:HD3	1.97	0.47
1:A:210:GLU:OE2	1:A:273:HIS:NE2	2.48	0.47
1:A:214:VAL:HG22	1:A:339:ILE:HB	1.97	0.47
1:A:283:ARG:NH1	1:A:284:HIS:O	2.47	0.47
1:A:534:ARG:HD2	1:A:570:GLU:OE1	2.15	0.47
1:A:575:LEU:O	1:A:578:ILE:HG22	2.15	0.47
1:A:632:LEU:HD12	1:A:1666:THR:HG23	1.95	0.47
1:A:887:ILE:HG23	1:A:888:GLU:OE1	2.15	0.47
1:A:896:VAL:HB	1:A:901:LYS:HE2	1.95	0.47
1:A:1076:ARG:HB3	1:A:1191:VAL:HG23	1.97	0.47
1:A:1493:TYR:HB3	1:A:1540:PHE:CE2	2.50	0.47
1:A:1715:LEU:HD12	1:A:1719:HIS:CD2	2.48	0.47
1:A:1805:GLU:H	1:A:1805:GLU:CD	2.14	0.47
1:A:2031:LEU:HD12	1:A:2032:GLN:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2157:GLU:O	1:A:2161:GLN:HG2	2.14	0.47
1:A:2193:GLN:HG3	1:A:2194:HIS:CE1	2.49	0.47
1:A:2417:HIS:HB2	1:A:2492:ALA:HA	1.96	0.47
1:A:2490:MET:HE3	1:A:2493:SER:OG	2.15	0.47
1:A:2522:LEU:C	1:A:2527:LEU:HG	2.40	0.47
1:A:2797:PHE:HE1	1:A:2802:LYS:HG2	1.78	0.47
1:A:2874:MET:HE3	1:A:2937:VAL:HG22	1.96	0.47
1:A:2966:TRP:HB3	1:A:2998:PHE:HE2	1.79	0.47
1:A:3051:ARG:O	1:A:3053:ARG:NH2	2.45	0.47
1:A:3841:VAL:C	1:A:3875:MET:HE1	2.39	0.47
1:A:3983:SER:OG	1:A:3985:LEU:HG	2.14	0.47
1:A:4077:PHE:O	1:A:4081:VAL:HG23	2.15	0.47
1:A:4581:LYS:HE2	1:A:4633:GLU:HB2	1.96	0.47
1:A:4642:ALA:O	1:A:4646:LEU:HD23	2.15	0.47
1:B:534:ARG:HD2	1:B:570:GLU:OE1	2.15	0.47
1:B:661:LYS:HD2	1:B:808:TYR:CZ	2.50	0.47
1:B:887:ILE:HG23	1:B:888:GLU:OE1	2.15	0.47
1:B:1450:VAL:HA	1:B:1552:VAL:HG22	1.97	0.47
1:B:1805:GLU:H	1:B:1805:GLU:CD	2.14	0.47
1:B:2490:MET:HE3	1:B:2493:SER:OG	2.15	0.47
1:B:2496:PRO:HB3	1:B:2553:TYR:CZ	2.50	0.47
1:B:2522:LEU:C	1:B:2527:LEU:HG	2.40	0.47
1:B:2559:LEU:HB2	1:B:2560:PRO:HD3	1.96	0.47
1:B:2578:MET:HE3	1:B:2582:MET:HG3	1.96	0.47
1:B:2909:ASP:N	1:B:2909:ASP:OD1	2.46	0.47
1:B:3720:TYR:O	1:B:3723:MET:HB2	2.13	0.47
1:B:4085:ARG:NH2	1:B:4122:MET:HG3	2.30	0.47
1:B:4214:LYS:HE3	1:B:4214:LYS:HB3	1.73	0.47
1:B:4249:ALA:O	1:B:4252:SER:OG	2.28	0.47
1:B:4581:LYS:HE2	1:B:4633:GLU:HB2	1.96	0.47
1:D:29:LEU:HD12	1:D:31:GLU:HB3	1.97	0.47
1:D:283:ARG:HA	1:D:290:TYR:HA	1.94	0.47
1:D:534:ARG:HD2	1:D:570:GLU:OE1	2.15	0.47
1:D:2271:THR:H	1:D:2274:ASP:HB2	1.79	0.47
1:D:2490:MET:HE3	1:D:2493:SER:OG	2.15	0.47
1:D:2496:PRO:HB3	1:D:2553:TYR:CZ	2.50	0.47
1:D:2559:LEU:HB2	1:D:2560:PRO:HD3	1.96	0.47
1:D:2578:MET:HE3	1:D:2582:MET:HG3	1.96	0.47
1:D:2950:SER:HA	1:D:2953:LYS:HE2	1.96	0.47
1:D:3023:LYS:HD2	1:D:3023:LYS:C	2.40	0.47
1:D:3245:VAL:HG22	1:D:3246:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3433:GLU:OE2	1:D:3436:ARG:NE	2.36	0.47
1:D:3504:SER:O	1:D:3508:SER:N	2.48	0.47
1:D:3529:ASP:OD2	1:D:3595:ARG:NH1	2.47	0.47
1:D:3589:PRO:HA	1:D:3592:ILE:HG22	1.97	0.47
1:D:3670:GLU:HG2	1:D:3728:ILE:HG12	1.96	0.47
1:D:3841:VAL:C	1:D:3875:MET:HE1	2.39	0.47
1:D:4031:LEU:HG	1:D:4044:MET:HG3	1.96	0.47
1:D:4697:VAL:HG23	1:D:4698:LYS:HD3	1.96	0.47
1:C:210:GLU:OE2	1:C:273:HIS:NE2	2.48	0.47
1:C:579:GLN:O	1:C:583:ILE:HG13	2.15	0.47
1:C:714:TYR:HB3	1:C:768:PHE:HE2	1.80	0.47
1:C:877:ASN:O	1:C:880:GLU:HG3	2.15	0.47
1:C:1044:ARG:O	1:C:1044:ARG:NE	2.47	0.47
1:C:2189:LYS:HA	1:C:2192:TYR:CD2	2.49	0.47
1:C:2439:GLU:O	1:C:2443:ILE:HG12	2.14	0.47
1:C:2462:PRO:HB2	1:C:2465:ASP:HB2	1.96	0.47
1:C:2603:ILE:O	1:C:2607:LEU:HG	2.15	0.47
1:C:3000:LYS:HD2	1:C:3000:LYS:H	1.79	0.47
1:C:3349:ALA:HA	1:C:3350:ARG:NH2	2.30	0.47
1:C:3379:LEU:HD11	1:C:3394:VAL:HG11	1.96	0.47
1:C:4642:ALA:O	1:C:4646:LEU:HD23	2.15	0.47
1:C:4846:VAL:O	1:C:4850:LEU:HG	2.15	0.47
1:A:203:ASN:HD21	1:A:268:SER:HB2	1.78	0.47
1:A:515:TRP:O	1:A:519:VAL:HG22	2.15	0.47
1:A:1007:TYR:CE1	1:A:1019:PRO:HA	2.49	0.47
1:A:1440:PHE:CZ	1:A:1563:GLN:HB2	2.49	0.47
1:A:1810:LYS:HB2	1:A:1810:LYS:HE3	1.69	0.47
1:A:2476:ILE:HD11	1:A:2541:PHE:HE2	1.80	0.47
1:A:2603:ILE:O	1:A:2607:LEU:HG	2.15	0.47
1:A:2777:TYR:HB3	1:A:2791:LEU:HD21	1.95	0.47
1:A:4975:PHE:O	1:A:4979:THR:HG23	2.15	0.47
2:G:66:MET:HG2	2:G:72:ALA:HB2	1.97	0.47
1:B:210:GLU:OE2	1:B:273:HIS:NE2	2.48	0.47
1:B:575:LEU:O	1:B:578:ILE:HG22	2.15	0.47
1:B:637:LEU:HD21	1:B:1696:HIS:CE1	2.50	0.47
1:B:714:TYR:HB3	1:B:768:PHE:HE2	1.80	0.47
1:B:1254:HIS:HB3	1:B:1274:HIS:HE1	1.80	0.47
1:B:1739:THR:HB	1:B:1742:THR:H	1.80	0.47
1:B:2243:SER:OG	1:B:2245:GLN:OE1	2.18	0.47
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.80	0.47
1:B:3522:LEU:HB3	1:C:1220:GLN:CD	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3811:GLU:O	1:B:3815:LYS:HG3	2.15	0.47
1:D:349:GLN:HE22	1:D:355:LEU:C	2.23	0.47
1:D:579:GLN:O	1:D:583:ILE:HG13	2.15	0.47
1:D:588:SER:HB2	1:D:1582:SER:HB3	1.96	0.47
1:D:979:PRO:O	1:D:982:THR:OG1	2.22	0.47
1:D:1601:MET:CE	1:D:1604:SER:HB3	2.44	0.47
1:D:1660:GLN:O	1:D:1660:GLN:NE2	2.48	0.47
1:D:2189:LYS:HA	1:D:2192:TYR:CD2	2.49	0.47
1:D:2347:GLU:OE2	1:D:2347:GLU:N	2.33	0.47
1:D:2495:VAL:HG22	1:D:2498:HIS:ND1	2.29	0.47
1:D:3145:GLN:CG	1:D:3196:ARG:HE	2.25	0.47
1:D:3344:PRO:O	1:D:3347:SER:OG	2.23	0.47
1:D:3997:ALA:HA	1:D:4000:MET:SD	2.55	0.47
1:C:67:PHE:CE2	1:C:111:HIS:HB2	2.49	0.47
1:C:1426:ILE:O	1:C:1430:THR:HG22	2.15	0.47
1:C:2157:GLU:O	1:C:2161:GLN:HG2	2.14	0.47
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.15	0.47
1:C:2499:LYS:HA	1:C:2502:MET:HG2	1.96	0.47
1:C:2527:LEU:N	1:C:2528:PRO:HD2	2.30	0.47
1:C:2874:MET:HE3	1:C:2937:VAL:HG22	1.96	0.47
1:C:3172:ILE:HA	1:C:3175:LEU:HD12	1.97	0.47
1:C:3525:CYS:HA	1:C:3595:ARG:NH2	2.30	0.47
1:C:3735:LEU:HB3	1:C:3766:GLN:NE2	2.30	0.47
1:C:3959:LYS:HG3	1:C:4019:LEU:HD13	1.97	0.47
1:C:4561:THR:HA	1:C:4564:PHE:CE2	2.50	0.47
1:C:4697:VAL:HG23	1:C:4698:LYS:HD3	1.96	0.47
1:A:67:PHE:CE2	1:A:111:HIS:HB2	2.49	0.47
1:A:886:ARG:HG3	1:A:891:TRP:CE3	2.50	0.47
1:A:2191:PHE:O	1:A:2198:MET:HE3	2.15	0.47
1:A:3428:ASN:OD1	1:A:3431:ALA:N	2.45	0.47
1:A:4031:LEU:HG	1:A:4044:MET:HG3	1.96	0.47
2:E:47:LYS:N	2:E:47:LYS:HD3	2.30	0.47
1:B:283:ARG:NH1	1:B:284:HIS:O	2.47	0.47
1:B:323:LEU:HD23	1:B:324:ASP:H	1.80	0.47
1:B:886:ARG:HG3	1:B:891:TRP:CE3	2.50	0.47
1:B:1601:MET:CE	1:B:1604:SER:HB3	2.44	0.47
1:B:1727:ARG:HA	1:B:1730:MET:HE3	1.96	0.47
1:B:2165:LEU:HD12	1:B:2165:LEU:HA	1.71	0.47
1:B:2950:SER:HA	1:B:2953:LYS:HE2	1.96	0.47
1:B:2967:MET:HA	1:B:2970:SER:HB3	1.97	0.47
1:B:3189:ALA:O	1:B:3192:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3398:PHE:HA	1:B:3401:LEU:HG	1.97	0.47
1:B:3416:VAL:HA	1:B:3419:ASN:HB2	1.97	0.47
1:B:3950:ASN:HA	1:B:3953:LYS:HD3	1.97	0.47
1:B:4642:ALA:O	1:B:4646:LEU:HD23	2.15	0.47
1:D:158:SER:O	1:D:161:GLU:HG2	2.15	0.47
1:D:886:ARG:HG3	1:D:891:TRP:CE3	2.50	0.47
1:D:925:SER:O	1:D:929:LEU:HG	2.14	0.47
1:D:995:VAL:HG22	1:D:998:ARG:NH2	2.29	0.47
1:D:2500:ALA:HB2	1:D:2553:TYR:HD1	1.80	0.47
1:D:2642:LYS:O	1:D:2645:THR:OG1	2.30	0.47
1:D:3146:HIS:CD2	1:D:3147:ILE:HD12	2.37	0.47
1:D:3396:ASP:O	1:D:3400:VAL:HG13	2.14	0.47
1:D:4662:ASN:O	1:D:4666:VAL:HB	2.14	0.47
1:C:11:VAL:HG11	1:C:164:ARG:HB3	1.96	0.47
1:C:214:VAL:HG22	1:C:339:ILE:HB	1.97	0.47
1:C:575:LEU:O	1:C:578:ILE:HG22	2.15	0.47
1:C:1105:ALA:N	1:C:1189:LEU:O	2.39	0.47
1:C:2191:PHE:O	1:C:2198:MET:HE3	2.15	0.47
1:C:2358:ILE:HG13	1:C:2359:ARG:NE	2.28	0.47
1:C:2642:LYS:O	1:C:2645:THR:OG1	2.30	0.47
1:C:2966:TRP:HB3	1:C:2998:PHE:HE2	1.79	0.47
1:C:2967:MET:HA	1:C:2970:SER:HB3	1.97	0.47
1:C:3811:GLU:O	1:C:3815:LYS:HG3	2.15	0.47
1:C:3983:SER:OG	1:C:3985:LEU:HG	2.14	0.47
1:C:4975:PHE:O	1:C:4979:THR:HG23	2.15	0.47
1:A:155:LYS:N	1:A:155:LYS:HD2	2.30	0.47
1:A:170:ILE:HG13	1:A:179:TYR:CD1	2.49	0.47
1:A:637:LEU:HD21	1:A:1696:HIS:CE1	2.50	0.47
1:A:995:VAL:HG22	1:A:998:ARG:NH2	2.29	0.47
1:A:1208:VAL:CG1	1:D:3575:LEU:HD21	2.44	0.47
1:A:1450:VAL:HA	1:A:1552:VAL:HG22	1.97	0.47
1:A:1727:ARG:HA	1:A:1730:MET:HE3	1.96	0.47
1:A:2287:ALA:HB1	1:A:2346:VAL:HG21	1.96	0.47
1:A:2499:LYS:HA	1:A:2502:MET:HG2	1.96	0.47
1:A:2547:ALA:HA	1:A:2550:LEU:HD23	1.96	0.47
1:A:3589:PRO:HA	1:A:3592:ILE:HG22	1.97	0.47
1:A:3811:GLU:O	1:A:3815:LYS:HG3	2.15	0.47
1:A:4715:TYR:HE2	1:A:4717:ASP:HB3	1.79	0.47
1:A:4732:PHE:CD2	1:A:4736:ARG:HB3	2.49	0.47
2:H:20:GLN:HE22	2:H:106:LEU:HB3	1.80	0.47
1:B:681:HIS:N	1:B:784:SER:OG	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1457:TYR:O	1:B:1458:HIS:ND1	2.47	0.47
1:B:2287:ALA:HB1	1:B:2346:VAL:HG21	1.96	0.47
1:B:3051:ARG:O	1:B:3053:ARG:NH2	2.45	0.47
1:B:3498:ARG:HB3	1:B:3499:ARG:H	1.51	0.47
1:B:4561:THR:HA	1:B:4564:PHE:CE2	2.50	0.47
1:B:4975:PHE:O	1:B:4979:THR:HG23	2.15	0.47
1:D:1254:HIS:HB3	1:D:1274:HIS:HE1	1.80	0.47
1:D:2191:PHE:O	1:D:2198:MET:HE3	2.15	0.47
1:D:2476:ILE:HD11	1:D:2541:PHE:HE2	1.80	0.47
1:D:2603:ILE:O	1:D:2607:LEU:HG	2.15	0.47
1:D:3171:SER:OG	1:D:3172:ILE:N	2.46	0.47
1:D:3532:LEU:HD23	1:D:3533:ILE:HD13	1.96	0.47
1:D:3994:HIS:CE1	1:D:3995:VAL:HG23	2.51	0.47
1:D:5014:TYR:O	1:D:5017:ARG:HD2	2.15	0.47
1:C:170:ILE:HG13	1:C:179:TYR:CD1	2.49	0.47
1:C:830:ARG:HD3	1:C:1612:PHE:CE1	2.50	0.47
1:C:893:TYR:HA	1:C:904:HIS:O	2.14	0.47
1:C:1463:ASN:OD1	1:C:1463:ASN:N	2.47	0.47
1:C:1607:ARG:H	1:C:1652:GLU:CD	2.23	0.47
1:C:2547:ALA:HA	1:C:2550:LEU:HD23	1.96	0.47
1:C:2952:GLU:O	1:C:2957:PHE:HB3	2.15	0.47
1:C:3023:LYS:HD2	1:C:3023:LYS:C	2.40	0.47
1:C:3081:MET:C	1:C:3081:MET:HE2	2.39	0.47
1:C:3145:GLN:HA	1:C:3196:ARG:HH21	1.79	0.47
1:C:3245:VAL:HG22	1:C:3246:LEU:HD23	1.97	0.47
1:C:3344:PRO:O	1:C:3347:SER:OG	2.23	0.47
1:C:3532:LEU:HD23	1:C:3533:ILE:HD13	1.96	0.47
1:C:4031:LEU:HG	1:C:4044:MET:HG3	1.96	0.47
1:C:4662:ASN:O	1:C:4666:VAL:HB	2.14	0.47
1:C:4715:TYR:HE2	1:C:4717:ASP:HB3	1.79	0.47
1:C:4788:SER:O	1:C:4792:LEU:HG	2.15	0.47
1:A:548:VAL:HA	1:A:551:LEU:HG	1.96	0.46
1:A:670:GLU:OE2	1:A:788:LYS:HG3	2.15	0.46
1:A:719:LEU:HD21	2:E:7:ILE:HA	1.97	0.46
1:A:1220:GLN:OE1	1:D:3522:LEU:HD22	2.15	0.46
1:A:1833:SER:HB3	1:A:1836:PHE:HD2	1.80	0.46
1:A:1924:GLU:OE2	1:A:1924:GLU:N	2.48	0.46
1:A:2226:PRO:HB2	1:A:2268[B]:GLN:HE21	1.79	0.46
1:A:2770:LYS:HB3	1:A:2786:LYS:NZ	2.30	0.46
1:A:4081:VAL:HG22	1:A:4088:ILE:HD12	1.96	0.46
1:B:341:TYR:CE1	1:B:392:ARG:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1493:TYR:HB3	1:B:1540:PHE:CE2	2.50	0.46
1:B:3552:PHE:O	1:B:3556:ASN:HB2	2.16	0.46
1:B:3906:GLN:H	1:B:3912:THR:HG23	1.79	0.46
1:B:3959:LYS:HG3	1:B:4019:LEU:HD13	1.96	0.46
1:D:155:LYS:N	1:D:155:LYS:HD2	2.30	0.46
1:D:203:ASN:HD21	1:D:268:SER:HB2	1.79	0.46
1:D:320:LYS:NZ	1:D:386:ASP:OD2	2.34	0.46
1:D:697:GLY:HA2	1:D:1636:MET:HE2	1.97	0.46
1:D:978:THR:OG1	1:D:981:GLN:OE1	2.30	0.46
1:D:1091:GLU:OE2	1:D:1213:PHE:HB2	2.16	0.46
1:D:1493:TYR:HB3	1:D:1540:PHE:CE2	2.50	0.46
1:D:1727:ARG:O	1:D:1731:LEU:HG	2.15	0.46
1:D:2287:ALA:HB1	1:D:2346:VAL:HG21	1.96	0.46
1:D:2779:GLU:HA	1:D:2791:LEU:O	2.16	0.46
1:D:3254:GLY:O	1:D:3258:GLU:HG3	2.16	0.46
1:D:3811:GLU:O	1:D:3815:LYS:HG3	2.15	0.46
1:D:4642:ALA:O	1:D:4646:LEU:HD23	2.15	0.46
1:C:1091:GLU:OE2	1:C:1213:PHE:HB2	2.16	0.46
1:C:1450:VAL:HA	1:C:1552:VAL:HG22	1.97	0.46
1:C:1601:MET:CE	1:C:1604:SER:HB3	2.44	0.46
1:C:1762:LEU:HD23	1:C:1765:VAL:HG21	1.97	0.46
1:C:2031:LEU:HD12	1:C:2032:GLN:N	2.30	0.46
1:C:3416:VAL:HA	1:C:3419:ASN:HB2	1.97	0.46
1:A:341:TYR:CE1	1:A:392:ARG:HA	2.50	0.46
1:A:579:GLN:O	1:A:583:ILE:HG13	2.15	0.46
1:A:1091:GLU:OE2	1:A:1213:PHE:HB2	2.15	0.46
1:A:1596:GLU:OE1	1:A:1597:VAL:N	2.45	0.46
1:A:1859:VAL:HA	1:A:1862:ILE:HD12	1.97	0.46
1:A:2015:GLU:HA	1:A:2018:GLU:HB2	1.97	0.46
1:A:2433:LEU:HG	1:A:2505:PHE:HE2	1.80	0.46
1:A:2527:LEU:N	1:A:2528:PRO:HD2	2.30	0.46
1:A:2952:GLU:O	1:A:2957:PHE:HB3	2.15	0.46
1:A:3141:THR:HG22	1:A:3193:CYS:HA	1.96	0.46
1:A:3419:ASN:HA	1:A:3422[A]:HIS:ND1	2.30	0.46
1:A:3822:ASP:O	1:A:3824:LYS:NZ	2.30	0.46
1:A:3920:VAL:O	1:A:3924:LEU:HG	2.14	0.46
1:B:155:LYS:N	1:B:155:LYS:HD2	2.30	0.46
1:B:278:GLN:HA	1:B:328:LYS:HZ3	1.80	0.46
1:B:670:GLU:OE2	1:B:788:LYS:HG3	2.15	0.46
1:B:1091:GLU:OE2	1:B:1213:PHE:HB2	2.16	0.46
1:B:1833:SER:HB3	1:B:1836:PHE:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1859:VAL:HA	1:B:1862:ILE:HD12	1.97	0.46
1:B:1939:MET:O	1:B:1943:LEU:HG	2.14	0.46
1:B:2500:ALA:HB2	1:B:2553:TYR:HB2	1.98	0.46
1:B:2770:LYS:HB3	1:B:2786:LYS:NZ	2.30	0.46
1:B:3023:LYS:HD2	1:B:3023:LYS:C	2.40	0.46
1:B:3419:ASN:HA	1:B:3422[A]:HIS:ND1	2.30	0.46
1:B:3787:LYS:HE3	1:B:3787:LYS:HB2	1.57	0.46
1:B:3997:ALA:HA	1:B:4000:MET:SD	2.55	0.46
1:D:661:LYS:HD2	1:D:808:TYR:CZ	2.50	0.46
1:D:670:GLU:OE2	1:D:788:LYS:HG3	2.15	0.46
1:D:2312:MET:O	1:D:2316:LYS:N	2.46	0.46
1:D:3172:ILE:HA	1:D:3175:LEU:HD12	1.97	0.46
1:D:3349:ALA:HA	1:D:3350:ARG:NH2	2.30	0.46
1:D:3525:CYS:HA	1:D:3595:ARG:NH2	2.30	0.46
1:D:3787:LYS:HE3	1:D:3787:LYS:HB2	1.57	0.46
1:D:4085:ARG:NH2	1:D:4122:MET:HG3	2.30	0.46
1:D:4214:LYS:HE3	1:D:4214:LYS:HB3	1.73	0.46
1:C:323:LEU:HD23	1:C:324:ASP:H	1.80	0.46
1:C:1457:TYR:O	1:C:1458:HIS:ND1	2.47	0.46
1:C:1493:TYR:HB3	1:C:1540:PHE:CE2	2.50	0.46
1:C:1833:SER:HB3	1:C:1836:PHE:HD2	1.80	0.46
1:C:2490:MET:HE3	1:C:2493:SER:OG	2.15	0.46
1:C:2522:LEU:C	1:C:2527:LEU:HG	2.40	0.46
1:C:3367:LYS:HE2	1:C:3371:LYS:NZ	2.27	0.46
1:C:4207:MET:HB2	1:C:4210:VAL:HG12	1.97	0.46
1:C:4722:ARG:HH11	1:C:4748:LEU:HB3	1.80	0.46
1:C:4794:TRP:O	1:C:4798:MET:HG2	2.16	0.46
1:A:15:ARG:HD3	1:A:16:THR:N	2.31	0.46
1:A:29:LEU:HD12	1:A:31:GLU:HB3	1.97	0.46
1:A:758:ARG:NH1	1:A:761:GLY:H	2.08	0.46
1:A:830:ARG:HD3	1:A:1612:PHE:CE1	2.50	0.46
1:A:2301:TYR:HB3	1:A:2331:TYR:CE2	2.50	0.46
1:A:2480:GLY:C	1:A:2483:GLY:H	2.24	0.46
1:A:3349:ALA:HA	1:A:3350:ARG:NH2	2.30	0.46
1:A:3416:VAL:HA	1:A:3419:ASN:HB2	1.97	0.46
1:A:3467:MET:HA	1:A:3467:MET:HE2	1.97	0.46
1:A:4722:ARG:HH11	1:A:4748:LEU:HB3	1.80	0.46
1:A:4723:LYS:HB2	1:A:4723:LYS:HE2	1.79	0.46
1:B:66:CYS:O	1:B:111:HIS:ND1	2.41	0.46
1:B:214:VAL:HG22	1:B:339:ILE:HB	1.97	0.46
1:B:382:GLY:O	1:B:383:HIS:ND1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:579:GLN:O	1:B:583:ILE:HG13	2.15	0.46
1:B:954:LYS:HA	1:B:954:LYS:HD2	1.75	0.46
1:B:1426:ILE:O	1:B:1430:THR:HG22	2.15	0.46
1:B:1568:LYS:HA	1:B:1568:LYS:HE3	1.97	0.46
1:B:3349:ALA:HA	1:B:3350:ARG:NH2	2.30	0.46
1:D:229:GLU:OE2	1:D:247:TYR:HB3	2.16	0.46
1:D:382:GLY:O	1:D:383:HIS:ND1	2.48	0.46
1:D:1810:LYS:HB2	1:D:1810:LYS:HE3	1.69	0.46
1:D:1833:SER:HB3	1:D:1836:PHE:HD2	1.80	0.46
1:D:1924:GLU:OE2	1:D:1924:GLU:N	2.48	0.46
1:D:2031:LEU:HD12	1:D:2032:GLN:N	2.30	0.46
1:D:2247:GLN:HA	1:D:2250:MET:CE	2.45	0.46
1:D:2433:LEU:HG	1:D:2505:PHE:HE2	1.80	0.46
1:D:2967:MET:HA	1:D:2970:SER:HB3	1.97	0.46
1:D:3467:MET:HA	1:D:3467:MET:HE2	1.97	0.46
1:D:3959:LYS:HG3	1:D:4019:LEU:HD13	1.97	0.46
1:D:4725:LEU:HA	1:D:4737:ILE:HG21	1.96	0.46
1:C:155:LYS:N	1:C:155:LYS:HD2	2.30	0.46
1:C:276:TRP:H	1:C:338:GLU:HG2	1.81	0.46
1:C:637:LEU:HD21	1:C:1696:HIS:CE1	2.50	0.46
1:C:661:LYS:HD2	1:C:808:TYR:CZ	2.50	0.46
1:C:881:LEU:O	1:C:885:THR:HG23	2.16	0.46
1:C:1101:ARG:HD3	1:C:1125:ASN:HB2	1.98	0.46
1:C:2283:ASN:ND2	1:C:2286:LEU:HG	2.29	0.46
1:C:3588:ASP:H	1:C:3591:LYS:HE3	1.80	0.46
1:C:4184:MET:SD	1:C:4188:ARG:NH2	2.77	0.46
1:C:5014:TYR:O	1:C:5017:ARG:HD2	2.15	0.46
1:A:11:VAL:HG11	1:A:164:ARG:HB3	1.96	0.46
1:A:168:ASP:HB3	1:A:199:LEU:HD21	1.98	0.46
1:A:233:ILE:HD13	1:A:284:HIS:CE1	2.50	0.46
1:A:661:LYS:HD2	1:A:808:TYR:CZ	2.50	0.46
1:A:3023:LYS:HD2	1:A:3023:LYS:C	2.40	0.46
1:A:3522:LEU:HB3	1:B:1220:GLN:CD	2.38	0.46
1:A:4207:MET:O	1:A:4210:VAL:HG12	2.16	0.46
2:G:31:GLU:HG2	2:G:96:THR:OG1	2.15	0.46
1:B:29:LEU:HD12	1:B:31:GLU:HB3	1.97	0.46
1:B:881:LEU:O	1:B:885:THR:HG23	2.16	0.46
1:B:1252:HIS:HE1	1:B:1255:TYR:CD2	2.34	0.46
1:B:2121:PHE:CZ	1:B:3701:LEU:HB2	2.51	0.46
1:B:2966:TRP:HB3	1:B:2998:PHE:HE2	1.79	0.46
1:B:3000:LYS:HD2	1:B:3000:LYS:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3145:GLN:HA	1:B:3196:ARG:HH21	1.80	0.46
1:B:3812:VAL:O	1:B:3816:MET:HG2	2.14	0.46
1:D:1426:ILE:O	1:D:1430:THR:HG22	2.15	0.46
1:D:1762:LEU:HD23	1:D:1765:VAL:HG21	1.97	0.46
1:D:2113:SER:O	1:D:2117:VAL:HG23	2.16	0.46
1:D:2351:ASN:O	1:D:2355:ARG:HG2	2.14	0.46
1:D:3419:ASN:HA	1:D:3422[A]:HIS:ND1	2.30	0.46
1:D:3539:ARG:O	1:D:3539:ARG:HD3	2.16	0.46
1:D:4207:MET:HB2	1:D:4210:VAL:HG12	1.97	0.46
1:C:29:LEU:HD12	1:C:31:GLU:HB3	1.97	0.46
1:C:341:TYR:CE1	1:C:392:ARG:HA	2.50	0.46
1:C:1739:THR:HB	1:C:1742:THR:H	1.80	0.46
1:C:2301:TYR:HB3	1:C:2331:TYR:CE2	2.50	0.46
1:C:2627:VAL:HA	1:C:2678:LEU:HD11	1.98	0.46
1:C:2760:GLU:HG2	1:C:2797:PHE:CE2	2.49	0.46
1:C:3467:MET:HE2	1:C:3467:MET:HA	1.97	0.46
1:C:4077:PHE:O	1:C:4081:VAL:HG23	2.15	0.46
1:C:4698:LYS:HD3	1:C:4698:LYS:N	2.31	0.46
1:C:4755:GLU:OE1	1:C:4755:GLU:N	2.33	0.46
1:A:252:VAL:HA	1:A:255:HIS:CD2	2.51	0.46
1:A:595:ARG:HH22	1:A:1661:ARG:HH12	1.64	0.46
1:A:640:TYR:CD2	1:A:1634:LEU:HG	2.50	0.46
1:A:697:GLY:HA2	1:A:1636:MET:HE2	1.97	0.46
1:A:714:TYR:HB3	1:A:768:PHE:HE2	1.80	0.46
1:A:877:ASN:O	1:A:880:GLU:HG3	2.15	0.46
1:A:2559:LEU:HB2	1:A:2560:PRO:HD3	1.96	0.46
1:A:3674:ILE:HG23	1:A:3698:LEU:HD11	1.97	0.46
1:A:4846:VAL:O	1:A:4850:LEU:HG	2.15	0.46
1:A:4876:CYS:HB2	1:A:4882:CYS:HB2	1.37	0.46
2:H:105:LYS:NZ	2:H:106:LEU:H	2.14	0.46
1:B:252:VAL:HA	1:B:255:HIS:CD2	2.51	0.46
1:B:623:GLU:OE2	1:B:1680:ARG:NH1	2.49	0.46
1:B:1126:GLY:O	1:B:1142:PRO:HA	2.16	0.46
1:B:1607:ARG:H	1:B:1652:GLU:CD	2.23	0.46
1:B:2340:PHE:HE1	1:B:2345:SER:HB2	1.81	0.46
1:B:2779:GLU:HA	1:B:2791:LEU:O	2.16	0.46
1:B:3670:GLU:HG2	1:B:3728:ILE:HG12	1.96	0.46
1:B:4075:GLU:OE2	1:B:4075:GLU:N	2.46	0.46
1:B:4582:VAL:HG13	1:C:4856:PHE:CZ	2.50	0.46
1:B:4697:VAL:HG23	1:B:4698:LYS:HD3	1.96	0.46
1:B:4722:ARG:HH11	1:B:4748:LEU:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:15:ARG:NH1	1:D:98:HIS:HB3	2.31	0.46
1:D:877:ASN:O	1:D:880:GLU:HG3	2.15	0.46
1:D:1076:ARG:HB3	1:D:1191:VAL:HG23	1.97	0.46
1:D:1101:ARG:HD3	1:D:1125:ASN:HB2	1.98	0.46
1:D:1567:GLY:C	1:D:1568:LYS:HD2	2.41	0.46
1:D:3983:SER:OG	1:D:3985:LEU:HG	2.14	0.46
1:D:4668:LEU:O	1:D:4672:LYS:HG3	2.16	0.46
1:D:4722:ARG:HH11	1:D:4748:LEU:HB3	1.80	0.46
1:D:4794:TRP:O	1:D:4798:MET:HG2	2.16	0.46
1:C:15:ARG:NH1	1:C:98:HIS:HB3	2.31	0.46
1:C:856:VAL:HB	1:C:991:ASN:HD21	1.81	0.46
1:C:925:SER:O	1:C:929:LEU:HG	2.14	0.46
1:C:1007:TYR:CE1	1:C:1019:PRO:HA	2.49	0.46
1:C:1126:GLY:HA3	1:C:1143:TRP:CD2	2.51	0.46
1:C:2500:ALA:HB2	1:C:2553:TYR:HD1	1.80	0.46
1:C:2578:MET:HE3	1:C:2582:MET:HG3	1.96	0.46
1:C:2828:GLU:OE2	1:C:2935:TYR:OH	2.24	0.46
1:C:3138:PRO:O	1:C:3141:THR:OG1	2.27	0.46
1:C:3398:PHE:HA	1:C:3401:LEU:HG	1.97	0.46
1:C:3997:ALA:HA	1:C:4000:MET:SD	2.55	0.46
1:A:349:GLN:HE22	1:A:355:LEU:C	2.23	0.46
1:A:1126:GLY:O	1:A:1142:PRO:HA	2.16	0.46
1:A:1682:ALA:HA	1:A:1685:LEU:HD12	1.96	0.46
1:A:1690:ASP:CG	1:A:1693:GLN:H	2.22	0.46
1:A:1705:GLY:HA2	1:A:1708:ARG:HG2	1.97	0.46
1:A:2255:SER:O	1:A:2297:LYS:NZ	2.49	0.46
1:A:2779:GLU:HA	1:A:2791:LEU:O	2.16	0.46
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.50	0.46
1:A:3571:TRP:HE3	1:A:3575:LEU:HD23	1.81	0.46
1:A:3959:LYS:HG3	1:A:4019:LEU:HD13	1.96	0.46
1:A:4181:ILE:HD12	1:A:4181:ILE:HA	1.81	0.46
1:A:4668:LEU:O	1:A:4672:LYS:HG3	2.16	0.46
1:A:5014:TYR:O	1:A:5017:ARG:HD2	2.15	0.46
2:E:5:GLU:HB3	2:E:73:LYS:HB3	1.98	0.46
2:G:29:MET:N	2:G:29:MET:HE3	2.31	0.46
1:B:472:ARG:NH2	1:B:533:ASN:HA	2.31	0.46
1:B:630:GLU:OE2	1:B:630:GLU:N	2.34	0.46
1:B:640:TYR:CD2	1:B:1634:LEU:HG	2.50	0.46
1:B:1076:ARG:HB3	1:B:1191:VAL:HG23	1.97	0.46
1:B:1567:GLY:C	1:B:1568:LYS:HD2	2.41	0.46
1:B:1762:LEU:HD23	1:B:1765:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2191:PHE:O	1:B:2198:MET:HE3	2.15	0.46
1:B:2247:GLN:HA	1:B:2250:MET:CE	2.45	0.46
1:B:2255:SER:O	1:B:2297:LYS:NZ	2.49	0.46
1:B:2476:ILE:HD11	1:B:2541:PHE:HE2	1.80	0.46
1:B:2480:GLY:C	1:B:2483:GLY:H	2.23	0.46
1:B:3179:LYS:HD3	1:B:3179:LYS:N	2.31	0.46
1:B:3254:GLY:O	1:B:3258:GLU:HG3	2.16	0.46
1:B:3271:GLU:O	1:B:3275:PRO:HG2	2.15	0.46
1:B:3589:PRO:HA	1:B:3592:ILE:HG22	1.97	0.46
1:B:4031:LEU:HG	1:B:4044:MET:HG3	1.96	0.46
1:B:4715:TYR:HE2	1:B:4717:ASP:HB3	1.79	0.46
1:D:292:ALA:HB2	1:D:312:THR:HG23	1.97	0.46
1:D:296:ASP:OD1	1:D:296:ASP:N	2.47	0.46
1:D:623:GLU:OE2	1:D:1680:ARG:NH1	2.49	0.46
1:D:856:VAL:HB	1:D:991:ASN:HD21	1.81	0.46
1:D:1141:ARG:NH1	1:C:3478:MET:CE	2.77	0.46
1:D:2255:SER:O	1:D:2297:LYS:NZ	2.49	0.46
1:D:3368:ARG:HH22	1:D:3405:LEU:HD21	1.81	0.46
1:D:3735:LEU:HB3	1:D:3766:GLN:NE2	2.30	0.46
1:D:4846:VAL:O	1:D:4850:LEU:HG	2.15	0.46
1:C:515:TRP:O	1:C:519:VAL:HG22	2.15	0.46
1:C:1165:ASN:HA	1:C:1213:PHE:CE2	2.51	0.46
1:C:2113:SER:O	1:C:2117:VAL:HG23	2.16	0.46
1:C:2247:GLN:HA	1:C:2250:MET:CE	2.45	0.46
1:C:2340:PHE:HE1	1:C:2345:SER:HB2	1.81	0.46
1:C:3254:GLY:O	1:C:3258:GLU:HG3	2.16	0.46
1:C:3368:ARG:HH22	1:C:3405:LEU:HD21	1.81	0.46
1:C:3419:ASN:HA	1:C:3422[A]:HIS:ND1	2.30	0.46
1:C:3539:ARG:O	1:C:3542:LEU:HB2	2.16	0.46
1:C:4075:GLU:N	1:C:4075:GLU:OE2	2.46	0.46
1:A:1126:GLY:HA3	1:A:1143:TRP:CD2	2.51	0.46
1:A:1658:ASP:OD1	1:A:1659:LEU:N	2.48	0.46
1:A:1931:LEU:HB3	1:A:1935:VAL:HB	1.98	0.46
1:A:2121:PHE:CZ	1:A:3701:LEU:HB2	2.51	0.46
1:A:2247:GLN:HA	1:A:2250:MET:CE	2.45	0.46
1:A:2340:PHE:HE1	1:A:2345:SER:HB2	1.81	0.46
1:A:2500:ALA:HB2	1:A:2553:TYR:HB2	1.98	0.46
1:A:3245:VAL:HG22	1:A:3246:LEU:HD23	1.97	0.46
1:A:3254:GLY:O	1:A:3258:GLU:HG3	2.16	0.46
1:A:3411:LEU:HD12	1:A:3412:LEU:H	1.81	0.46
1:A:3608:GLN:HA	1:A:3611:HIS:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4174:PHE:HA	1:A:4177:TYR:CD2	2.51	0.46
1:A:4788:SER:O	1:A:4792:LEU:HG	2.15	0.46
1:A:4963:ILE:HD13	1:A:5030:LYS:HZ1	1.80	0.46
1:A:5000:GLU:O	1:A:5003:HIS:HB2	2.16	0.46
2:E:42:ARG:NE	2:E:42:ARG:HA	2.30	0.46
1:B:2015:GLU:HA	1:B:2018:GLU:HB2	1.97	0.46
1:B:2630:VAL:HG11	1:B:2678:LEU:HD22	1.98	0.46
1:B:3539:ARG:O	1:B:3539:ARG:HD3	2.16	0.46
1:B:4823:LEU:HD13	1:C:4843:LEU:HD13	1.98	0.46
1:B:4846:VAL:O	1:B:4850:LEU:HG	2.15	0.46
1:D:168:ASP:HB3	1:D:199:LEU:HD21	1.98	0.46
1:D:341:TYR:CE1	1:D:392:ARG:HA	2.50	0.46
1:D:575:LEU:O	1:D:578:ILE:HG22	2.15	0.46
1:D:582:HIS:O	1:D:585:SER:OG	2.28	0.46
1:D:637:LEU:HD21	1:D:1696:HIS:CE1	2.50	0.46
1:D:1126:GLY:O	1:D:1142:PRO:HA	2.16	0.46
1:D:2340:PHE:HE1	1:D:2345:SER:HB2	1.81	0.46
1:D:2478:THR:O	1:D:2486:VAL:N	2.41	0.46
1:D:2522:LEU:C	1:D:2527:LEU:HG	2.40	0.46
1:D:2770:LYS:HB3	1:D:2786:LYS:NZ	2.30	0.46
1:D:3571:TRP:HE3	1:D:3575:LEU:HD23	1.81	0.46
1:D:3608:GLN:HA	1:D:3611:HIS:CE1	2.51	0.46
1:D:3674:ILE:HG23	1:D:3698:LEU:HD11	1.97	0.46
1:D:4561:THR:HA	1:D:4564:PHE:CE2	2.50	0.46
1:D:5000:GLU:O	1:D:5003:HIS:HB2	2.16	0.46
1:C:28:VAL:N	1:C:31:GLU:O	2.31	0.46
1:C:252:VAL:HA	1:C:255:HIS:CD2	2.51	0.46
1:C:1126:GLY:O	1:C:1142:PRO:HA	2.16	0.46
1:C:2495:VAL:HG22	1:C:2498:HIS:ND1	2.29	0.46
1:C:2770:LYS:HB3	1:C:2786:LYS:NZ	2.30	0.46
1:C:3539:ARG:O	1:C:3539:ARG:HD3	2.16	0.46
1:C:3552:PHE:O	1:C:3556:ASN:HB2	2.16	0.46
1:C:4668:LEU:O	1:C:4672:LYS:HG3	2.16	0.46
1:C:4680:LYS:HE2	1:C:4680:LYS:HB2	1.67	0.46
1:C:5000:GLU:O	1:C:5003:HIS:HB2	2.16	0.46
1:A:158:SER:O	1:A:161:GLU:HG2	2.15	0.46
1:A:276:TRP:H	1:A:338:GLU:HG2	1.81	0.46
1:A:2113:SER:O	1:A:2117:VAL:HG23	2.16	0.46
1:A:3172:ILE:HA	1:A:3175:LEU:HD12	1.97	0.46
1:A:3187:ARG:CZ	1:A:3267:PRO:HB2	2.46	0.46
1:A:3344:PRO:O	1:A:3347:SER:OG	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3532:LEU:HD23	1:A:3533:ILE:HD13	1.96	0.46
1:A:3539:ARG:O	1:A:3539:ARG:HD3	2.16	0.46
1:A:3588:ASP:H	1:A:3591:LYS:HE3	1.80	0.46
1:A:4633:GLU:OE1	1:A:4633:GLU:N	2.49	0.46
2:E:57:ARG:HH11	2:E:57:ARG:HG2	1.80	0.46
2:H:47:LYS:HD3	2:H:47:LYS:N	2.30	0.46
1:B:229:GLU:OE2	1:B:247:TYR:HB3	2.16	0.46
1:B:1596:GLU:OE1	1:B:1597:VAL:N	2.46	0.46
1:B:2113:SER:O	1:B:2117:VAL:HG23	2.16	0.46
1:B:2389:ASP:OD1	1:B:2392:ARG:HB2	2.16	0.46
1:B:2433:LEU:HG	1:B:2505:PHE:HE2	1.81	0.46
1:B:2462:PRO:HB2	1:B:2465:ASP:HB2	1.97	0.46
1:B:2499:LYS:HA	1:B:2502:MET:HG2	1.96	0.46
1:B:2627:VAL:HA	1:B:2678:LEU:HD11	1.98	0.46
1:B:3573:MET:HA	1:B:3573:MET:HE3	1.98	0.46
1:B:3573:MET:HA	1:B:3576:TYR:HB2	1.98	0.46
1:B:3608:GLN:HA	1:B:3611:HIS:CE1	2.51	0.46
1:B:3994:HIS:CE1	1:B:3995:VAL:HG23	2.51	0.46
1:D:233:ILE:HD13	1:D:284:HIS:CE1	2.50	0.46
1:D:403:MET:HE3	1:D:403:MET:HB3	1.79	0.46
1:D:515:TRP:O	1:D:519:VAL:HG22	2.15	0.46
1:D:1607:ARG:H	1:D:1652:GLU:CD	2.23	0.46
1:D:2480:GLY:C	1:D:2483:GLY:H	2.23	0.46
1:D:2790:MET:HA	1:D:2792:ARG:NH2	2.31	0.46
1:D:3416:VAL:HA	1:D:3419:ASN:HB2	1.97	0.46
1:D:3539:ARG:O	1:D:3542:LEU:HB2	2.16	0.46
1:D:4077:PHE:O	1:D:4081:VAL:HG23	2.15	0.46
1:D:4680:LYS:HE2	1:D:4680:LYS:HB2	1.67	0.46
1:C:534:ARG:HD2	1:C:570:GLU:OE1	2.15	0.46
1:C:640:TYR:CD2	1:C:1634:LEU:HG	2.50	0.46
1:C:700:GLU:O	1:C:705:ASN:ND2	2.30	0.46
1:C:910:PHE:HB2	1:C:918:ARG:HD3	1.98	0.46
1:C:2131:LEU:O	1:C:2135:LEU:HG	2.16	0.46
1:C:2255:SER:O	1:C:2297:LYS:NZ	2.49	0.46
1:C:2927:LEU:HA	1:C:2927:LEU:HD13	1.71	0.46
1:C:3060:ASP:O	1:C:3064:VAL:HG23	2.15	0.46
1:C:3589:PRO:HA	1:C:3592:ILE:HG22	1.97	0.46
1:C:3608:GLN:HA	1:C:3611:HIS:CE1	2.51	0.46
1:C:4174:PHE:HA	1:C:4177:TYR:CD2	2.51	0.46
1:C:4633:GLU:OE1	1:C:4633:GLU:N	2.49	0.46
1:A:15:ARG:NH1	1:A:98:HIS:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:229:GLU:OE2	1:A:247:TYR:HB3	2.16	0.46
1:A:976:ARG:HA	1:A:976:ARG:HD3	1.66	0.46
1:A:1141:ARG:HB2	1:D:3478:MET:O	2.15	0.46
1:A:3504:SER:O	1:A:3508:SER:N	2.48	0.46
1:A:4202:ARG:O	1:A:4206:GLU:HG2	2.16	0.46
1:A:4553:ASN:C	1:A:4557:ARG:HE	2.24	0.46
1:A:4561:THR:HA	1:A:4564:PHE:CE2	2.50	0.46
2:H:49:MET:HE2	2:H:49:MET:HA	1.98	0.46
1:B:15:ARG:HD3	1:B:16:THR:N	2.31	0.46
1:B:158:SER:O	1:B:161:GLU:HG2	2.15	0.46
1:B:332:GLU:H	1:B:332:GLU:CD	2.24	0.46
1:B:474:ARG:O	1:B:478:PHE:HD1	1.99	0.46
1:B:695:TYR:OH	1:B:1073:ARG:NH2	2.49	0.46
1:B:979:PRO:O	1:B:982:THR:OG1	2.22	0.46
1:B:1044:ARG:O	1:B:1044:ARG:NE	2.47	0.46
1:B:1119:GLU:N	1:B:1119:GLU:OE2	2.47	0.46
1:B:1165:ASN:HA	1:B:1213:PHE:CE2	2.51	0.46
1:B:1433:TYR:CE2	1:B:1573:MET:HB2	2.51	0.46
1:B:1924:GLU:N	1:B:1924:GLU:OE2	2.48	0.46
1:B:2031:LEU:HD12	1:B:2032:GLN:N	2.30	0.46
1:B:2502:MET:SD	1:B:2502:MET:N	2.89	0.46
1:B:2615:ARG:HB2	1:B:2618:MET:HG3	1.98	0.46
1:B:2650:ARG:NH2	1:B:2651:CYS:SG	2.89	0.46
1:B:3467:MET:HE2	1:B:3467:MET:HA	1.97	0.46
1:B:3535:LEU:O	1:B:3538:THR:OG1	2.30	0.46
1:B:3535:LEU:HD23	1:B:3556:ASN:HD21	1.81	0.46
1:B:3735:LEU:HB3	1:B:3766:GLN:NE2	2.30	0.46
1:B:4207:MET:O	1:B:4210:VAL:HG12	2.16	0.46
1:B:4788:SER:O	1:B:4792:LEU:HG	2.15	0.46
1:B:5012:LYS:HE2	1:B:5012:LYS:HA	1.98	0.46
1:D:534:ARG:NH2	1:D:572:PRO:HD2	2.31	0.46
1:D:714:TYR:HB3	1:D:768:PHE:HE2	1.80	0.46
1:D:830:ARG:HD3	1:D:1612:PHE:CE1	2.50	0.46
1:D:874:LEU:HD22	1:D:1049:TYR:CE2	2.51	0.46
1:D:1044:ARG:O	1:D:1044:ARG:NE	2.47	0.46
1:D:1165:ASN:HA	1:D:1213:PHE:CE2	2.51	0.46
1:D:1716:ILE:HG23	1:D:1847:THR:HG21	1.98	0.46
1:D:1859:VAL:HA	1:D:1862:ILE:HD12	1.97	0.46
1:D:2165:LEU:HD12	1:D:2165:LEU:HA	1.71	0.46
1:D:2384:ILE:HG22	1:D:2388:GLU:OE2	2.16	0.46
1:D:2547:ALA:HA	1:D:2550:LEU:HD23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2788:HIS:CG	1:D:2789:PRO:HD2	2.51	0.46
1:D:2927:LEU:HA	1:D:2927:LEU:HD13	1.72	0.46
1:D:3562:LYS:HA	1:D:3562:LYS:HD3	1.60	0.46
1:D:3844:LEU:HD23	1:D:3844:LEU:HA	1.84	0.46
1:D:4580:TYR:OH	1:D:4630:TYR:O	2.29	0.46
1:D:4633:GLU:OE1	1:D:4633:GLU:N	2.49	0.46
1:C:229:GLU:OE2	1:C:247:TYR:HB3	2.16	0.46
1:C:233:ILE:HD13	1:C:284:HIS:CE1	2.50	0.46
1:C:695:TYR:OH	1:C:1073:ARG:NH2	2.49	0.46
1:C:1119:GLU:OE2	1:C:1119:GLU:N	2.47	0.46
1:C:1705:GLY:HA2	1:C:1708:ARG:HG2	1.97	0.46
1:C:2496:PRO:HB3	1:C:2553:TYR:CZ	2.50	0.46
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.51	0.46
1:C:3271:GLU:O	1:C:3275:PRO:HG2	2.15	0.46
1:C:3994:HIS:CE1	1:C:3995:VAL:HG23	2.50	0.46
1:C:4085:ARG:NH2	1:C:4122:MET:HG3	2.30	0.46
1:C:4627:MET:HE3	1:C:4627:MET:N	2.27	0.46
1:A:332:GLU:H	1:A:332:GLU:CD	2.24	0.46
1:A:749:ASP:O	1:A:754:SER:N	2.36	0.46
1:A:856:VAL:HB	1:A:991:ASN:HD21	1.81	0.46
1:A:881:LEU:O	1:A:885:THR:HG23	2.16	0.46
1:A:1101:ARG:HD3	1:A:1125:ASN:HB2	1.98	0.46
1:A:1454:THR:OG1	1:A:1491:ASN:O	2.27	0.46
1:A:1739:THR:HB	1:A:1742:THR:H	1.80	0.46
1:A:1785:ALA:HA	2:E:56:ILE:HD13	1.98	0.46
1:A:2131:LEU:O	1:A:2135:LEU:HG	2.16	0.46
1:A:2384:ILE:HG22	1:A:2388:GLU:OE2	2.16	0.46
1:A:3060:ASP:O	1:A:3064:VAL:HG23	2.15	0.46
1:A:3950:ASN:HA	1:A:3953:LYS:HD3	1.97	0.46
1:A:3994:HIS:CE1	1:A:3995:VAL:HG23	2.50	0.46
1:A:4794:TRP:O	1:A:4798:MET:HG2	2.16	0.46
2:E:2:VAL:HG23	2:E:80:TYR:CD2	2.50	0.46
2:E:26:TYR:OH	2:E:37:ASP:OD2	2.27	0.46
2:H:88:PRO:HB3	1:D:623:GLU:CD	2.40	0.46
2:F:10:GLY:HA3	2:F:70:GLN:HB2	1.98	0.46
1:B:233:ILE:HD13	1:B:284:HIS:CE1	2.50	0.46
1:B:874:LEU:HD22	1:B:1049:TYR:CE2	2.51	0.46
1:B:1105:ALA:O	1:B:1189:LEU:N	2.35	0.46
1:B:2603:ILE:O	1:B:2607:LEU:HG	2.15	0.46
1:B:3411:LEU:HD12	1:B:3412:LEU:H	1.81	0.46
1:B:3539:ARG:O	1:B:3542:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3588:ASP:H	1:B:3591:LYS:HE3	1.80	0.46
1:B:4207:MET:HB2	1:B:4210:VAL:HG12	1.97	0.46
1:B:4627:MET:HE3	1:B:4627:MET:N	2.27	0.46
1:B:4633:GLU:OE1	1:B:4633:GLU:N	2.49	0.46
1:B:4634:GLU:HG2	1:B:4639:MET:HG2	1.98	0.46
1:B:5014:TYR:O	1:B:5017:ARG:HD2	2.15	0.46
1:D:474:ARG:O	1:D:478:PHE:HD1	1.99	0.46
1:D:640:TYR:CD2	1:D:1634:LEU:HG	2.50	0.46
1:D:1450:VAL:HA	1:D:1552:VAL:HG22	1.97	0.46
1:D:1931:LEU:HB3	1:D:1935:VAL:HB	1.98	0.46
1:D:2301:TYR:HB3	1:D:2331:TYR:CE2	2.50	0.46
1:D:2952:GLU:O	1:D:2957:PHE:HB3	2.15	0.46
1:D:3187:ARG:CZ	1:D:3267:PRO:HB2	2.46	0.46
1:D:3368:ARG:HH22	1:D:3405:LEU:HD11	1.81	0.46
1:D:3573:MET:HA	1:D:3576:TYR:HB2	1.98	0.46
1:D:3588:ASP:H	1:D:3591:LYS:HE3	1.80	0.46
1:D:4664:LEU:HD12	1:D:4664:LEU:HA	1.77	0.46
1:C:158:SER:O	1:C:161:GLU:HG2	2.15	0.46
1:C:188:GLU:H	1:C:188:GLU:HG3	1.60	0.46
1:C:292:ALA:HB2	1:C:312:THR:HG23	1.97	0.46
1:C:382:GLY:O	1:C:383:HIS:ND1	2.48	0.46
1:C:534:ARG:NH2	1:C:572:PRO:HD2	2.31	0.46
1:C:887:ILE:HG23	1:C:888:GLU:OE1	2.15	0.46
1:C:1252:HIS:HE1	1:C:1255:TYR:CD2	2.34	0.46
1:C:1433:TYR:CE2	1:C:1573:MET:HB2	2.51	0.46
1:C:1476:MET:O	1:C:1484:HIS:N	2.49	0.46
1:C:1567:GLY:C	1:C:1568:LYS:HD2	2.41	0.46
1:C:2094:LEU:HD23	1:C:2094:LEU:H	1.81	0.46
1:C:2121:PHE:CZ	1:C:3701:LEU:HB2	2.51	0.46
1:C:2779:GLU:HA	1:C:2791:LEU:O	2.16	0.46
1:C:4902:GLU:H	1:C:4902:GLU:CD	2.18	0.46
1:A:125:ARG:NH1	1:A:126:SER:HA	2.31	0.45
1:A:320:LYS:NZ	1:A:386:ASP:OD2	2.34	0.45
1:A:472:ARG:NH2	1:A:533:ASN:HA	2.31	0.45
1:A:534:ARG:NH2	1:A:572:PRO:HD2	2.31	0.45
1:A:623:GLU:OE2	1:A:1680:ARG:NH1	2.49	0.45
1:A:1141:ARG:NH1	1:D:3478:MET:CE	2.74	0.45
1:A:1252:HIS:HE1	1:A:1255:TYR:CD2	2.34	0.45
1:A:1567:GLY:C	1:A:1568:LYS:HD2	2.41	0.45
1:A:2287:ALA:HA	1:A:2290:LEU:HD12	1.99	0.45
1:A:2389:ASP:OD1	1:A:2392:ARG:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2615:ARG:HB2	1:A:2618:MET:HG3	1.98	0.45
1:A:3271:GLU:O	1:A:3275:PRO:HG2	2.15	0.45
1:A:3368:ARG:HH22	1:A:3405:LEU:HD11	1.81	0.45
1:A:3525:CYS:HA	1:A:3595:ARG:NH2	2.30	0.45
1:A:4085:ARG:NH2	1:A:4122:MET:HG3	2.30	0.45
1:A:4627:MET:H	1:A:4627:MET:CE	2.26	0.45
1:A:4627:MET:HE3	1:A:4627:MET:N	2.27	0.45
1:A:4634:GLU:HG2	1:A:4639:MET:HG2	1.98	0.45
1:A:4715:TYR:CE2	1:A:4717:ASP:HB3	2.51	0.45
1:A:4856:PHE:CZ	1:D:4582:VAL:HG13	2.52	0.45
2:E:59:TRP:CH2	2:E:63:VAL:HG21	2.50	0.45
2:E:65:GLN:H	2:E:65:GLN:CD	2.24	0.45
2:G:56:ILE:HD11	1:C:1783:VAL:HA	1.97	0.45
2:G:97:LEU:HD12	2:G:97:LEU:HA	1.80	0.45
1:B:125:ARG:NH1	1:B:126:SER:HA	2.31	0.45
1:B:292:ALA:HB2	1:B:312:THR:HG23	1.97	0.45
1:B:856:VAL:HB	1:B:991:ASN:HD21	1.81	0.45
1:B:910:PHE:HB2	1:B:918:ARG:HD3	1.98	0.45
1:B:1111:PRO:HD3	1:B:1605:TRP:NE1	2.31	0.45
1:B:1843:LYS:HE2	1:B:1938:GLN:HG2	1.98	0.45
1:B:2107:GLN:NE2	1:B:3681:GLY:H	2.15	0.45
1:B:2131:LEU:O	1:B:2135:LEU:HG	2.16	0.45
1:B:2287:ALA:HA	1:B:2290:LEU:HD12	1.99	0.45
1:B:2328:GLY:HA3	1:B:2425:PHE:HE2	1.81	0.45
1:B:2952:GLU:HA	1:B:2957:PHE:CG	2.52	0.45
1:B:4715:TYR:CE2	1:B:4717:ASP:HB3	2.51	0.45
1:D:881:LEU:O	1:D:885:THR:HG23	2.16	0.45
1:D:1255:TYR:HD1	1:D:1272:LEU:HD11	1.80	0.45
1:D:3060:ASP:O	1:D:3064:VAL:HG23	2.15	0.45
1:D:4202:ARG:O	1:D:4206:GLU:HG2	2.16	0.45
1:C:2088:GLU:OE1	1:C:2088:GLU:N	2.50	0.45
1:C:2090:LYS:HZ2	1:C:2092:GLN:HG2	1.81	0.45
1:C:2231:SER:HB3	1:C:2234:ARG:HH21	1.81	0.45
1:C:2389:ASP:OD1	1:C:2392:ARG:HB2	2.16	0.45
1:C:2790:MET:HA	1:C:2792:ARG:NH2	2.31	0.45
1:C:3533:ILE:HG22	1:C:3537:LYS:HZ2	1.80	0.45
1:A:2952:GLU:HA	1:A:2957:PHE:CG	2.52	0.45
1:A:3352:GLU:OE2	1:A:3352:GLU:N	2.34	0.45
1:A:3368:ARG:HH22	1:A:3405:LEU:HD21	1.81	0.45
2:E:22:CYS:HB2	2:E:48:PHE:CE1	2.52	0.45
1:B:15:ARG:NH1	1:B:98:HIS:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:168:ASP:HB3	1:B:199:LEU:HD21	1.98	0.45
1:B:349:GLN:HE22	1:B:355:LEU:C	2.23	0.45
1:B:2788:HIS:CG	1:B:2789:PRO:HD2	2.51	0.45
1:B:3060:ASP:O	1:B:3064:VAL:HG23	2.15	0.45
1:B:3514:LEU:HA	1:B:3517:MET:CG	2.46	0.45
1:B:3525:CYS:HA	1:B:3595:ARG:NH2	2.30	0.45
1:B:3674:ILE:HG23	1:B:3698:LEU:HD11	1.98	0.45
1:B:5000:GLU:O	1:B:5003:HIS:HB2	2.16	0.45
1:D:15:ARG:HD3	1:D:16:THR:N	2.31	0.45
1:D:1476:MET:O	1:D:1484:HIS:N	2.50	0.45
1:D:2231:SER:HB3	1:D:2234:ARG:HH21	1.82	0.45
1:D:3179:LYS:HD3	1:D:3179:LYS:N	2.31	0.45
1:C:125:ARG:NH1	1:C:126:SER:HA	2.31	0.45
1:C:874:LEU:HD22	1:C:1049:TYR:CE2	2.51	0.45
1:C:904:HIS:NE2	1:C:906:CYS:SG	2.73	0.45
1:C:1859:VAL:HA	1:C:1862:ILE:HD12	1.97	0.45
1:C:1931:LEU:HB3	1:C:1935:VAL:HB	1.98	0.45
1:C:2500:ALA:HB2	1:C:2553:TYR:HB2	1.98	0.45
1:C:2502:MET:N	1:C:2502:MET:SD	2.89	0.45
1:C:2579:VAL:O	1:C:2582:MET:SD	2.74	0.45
1:C:2630:VAL:HG11	1:C:2678:LEU:HD22	1.98	0.45
1:C:2952:GLU:HA	1:C:2957:PHE:CG	2.52	0.45
1:C:4207:MET:O	1:C:4210:VAL:HG12	2.16	0.45
1:C:5012:LYS:HE2	1:C:5012:LYS:HA	1.98	0.45
1:A:1251:GLU:OE1	1:A:1251:GLU:N	2.34	0.45
1:A:1568:LYS:HA	1:A:1568:LYS:HE3	1.97	0.45
1:A:1607:ARG:H	1:A:1652:GLU:CD	2.24	0.45
1:A:1810:LYS:O	1:A:1814:MET:SD	2.75	0.45
1:A:2502:MET:N	1:A:2502:MET:SD	2.89	0.45
1:A:2790:MET:HA	1:A:2792:ARG:NH2	2.31	0.45
1:A:3368:ARG:HA	1:A:3371:LYS:HE2	1.99	0.45
1:A:4207:MET:HB2	1:A:4210:VAL:HG12	1.97	0.45
2:H:7:ILE:HD13	2:H:71:ARG:NE	2.18	0.45
2:H:21:THR:HG23	2:H:107:GLU:HB2	1.96	0.45
2:F:20:GLN:OE1	2:F:21:THR:N	2.49	0.45
1:B:595:ARG:HH22	1:B:1661:ARG:HH12	1.64	0.45
1:B:697:GLY:HA2	1:B:1636:MET:HE2	1.97	0.45
1:B:2496:PRO:HB3	1:B:2553:TYR:CE2	2.52	0.45
1:B:2555:CYS:CB	1:B:2599:GLN:HE21	2.26	0.45
1:B:3187:ARG:CZ	1:B:3267:PRO:HB2	2.46	0.45
1:B:3442:PHE:CZ	1:B:3605:HIS:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3950:ASN:O	1:B:3953:LYS:HG2	2.17	0.45
1:B:4174:PHE:HA	1:B:4177:TYR:CD2	2.51	0.45
1:B:4202:ARG:O	1:B:4206:GLU:HG2	2.16	0.45
1:D:125:ARG:NH1	1:D:126:SER:HA	2.31	0.45
1:D:904:HIS:NE2	1:D:906:CYS:SG	2.73	0.45
1:D:1105:ALA:N	1:D:1189:LEU:O	2.39	0.45
1:D:2131:LEU:O	1:D:2135:LEU:HG	2.16	0.45
1:D:2389:ASP:OD1	1:D:2392:ARG:HB2	2.16	0.45
1:D:3719:ASP:OD2	1:D:3722:TYR:N	2.49	0.45
1:D:3950:ASN:HA	1:D:3953:LYS:HD3	1.97	0.45
1:C:579:GLN:HB2	1:C:581:ASN:OD1	2.17	0.45
1:C:582:HIS:O	1:C:585:SER:OG	2.28	0.45
1:C:670:GLU:OE2	1:C:788:LYS:HG3	2.15	0.45
1:C:3573:MET:HA	1:C:3576:TYR:HB2	1.98	0.45
1:C:3674:ILE:HG23	1:C:3698:LEU:HD11	1.97	0.45
1:C:4664:LEU:HD23	1:C:4665:LYS:HZ1	1.81	0.45
1:C:4716:TRP:CG	6:C:5304:A1BD2:C4	3.00	0.45
1:C:4904:PRO:HB2	1:C:4910:GLU:HB2	1.99	0.45
1:A:579:GLN:HB2	1:A:581:ASN:OD1	2.17	0.45
1:A:695:TYR:OH	1:A:1073:ARG:NH2	2.49	0.45
1:A:931:THR:HG21	1:A:991:ASN:HD22	1.81	0.45
1:A:1039:LEU:O	1:A:1043:VAL:HG23	2.17	0.45
1:A:2328:GLY:HA3	1:A:2425:PHE:HE2	1.81	0.45
1:A:2579:VAL:O	1:A:2582:MET:SD	2.74	0.45
1:A:3563:VAL:HG23	1:A:3569:LEU:HB3	1.98	0.45
1:A:3644:LEU:HD21	1:A:3652:MET:SD	2.57	0.45
1:A:3707:ARG:O	1:A:3711:THR:OG1	2.27	0.45
1:A:5012:LYS:HE2	1:A:5012:LYS:HA	1.98	0.45
1:B:276:TRP:H	1:B:338:GLU:HG2	1.81	0.45
1:B:437:PRO:O	1:B:441:VAL:HG12	2.16	0.45
1:B:534:ARG:NH2	1:B:572:PRO:HD2	2.31	0.45
1:B:1039:LEU:O	1:B:1043:VAL:HG23	2.17	0.45
1:B:1126:GLY:HA3	1:B:1143:TRP:CD2	2.51	0.45
1:B:1658:ASP:OD1	1:B:1659:LEU:N	2.48	0.45
1:B:1810:LYS:O	1:B:1814:MET:SD	2.75	0.45
1:B:3245:VAL:HG22	1:B:3246:LEU:HD23	1.97	0.45
1:B:3368:ARG:HH22	1:B:3405:LEU:HD21	1.81	0.45
1:B:3560:GLN:OE1	1:B:3560:GLN:N	2.30	0.45
1:B:4716:TRP:CG	6:B:5304:A1BD2:C4	2.99	0.45
1:D:323:LEU:HD23	1:D:324:ASP:H	1.80	0.45
1:D:472:ARG:NH2	1:D:533:ASN:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:554:LEU:HD11	1:D:1593:PRO:HD3	1.99	0.45
1:D:695:TYR:OH	1:D:1073:ARG:NH2	2.49	0.45
1:D:2500:ALA:HB2	1:D:2553:TYR:HB2	1.98	0.45
1:D:3271:GLU:O	1:D:3275:PRO:HG2	2.15	0.45
1:D:4207:MET:O	1:D:4210:VAL:HG12	2.16	0.45
1:D:4698:LYS:HD3	1:D:4698:LYS:N	2.31	0.45
1:D:4904:PRO:HB2	1:D:4910:GLU:HB2	1.99	0.45
1:C:681:HIS:N	1:C:784:SER:OG	2.37	0.45
1:C:829:TYR:O	1:C:840:VAL:N	2.45	0.45
1:C:886:ARG:HG3	1:C:891:TRP:CE3	2.50	0.45
1:C:1076:ARG:HB3	1:C:1191:VAL:HG23	1.97	0.45
1:C:1237:TRP:HE3	1:C:1605:TRP:HB3	1.82	0.45
1:C:1613:LEU:HD23	1:C:1613:LEU:HA	1.81	0.45
1:C:2231:SER:HA	1:C:2234:ARG:NE	2.31	0.45
1:C:2480:GLY:C	1:C:2483:GLY:H	2.23	0.45
1:C:2585:THR:O	1:C:2589:LEU:HG	2.17	0.45
1:C:3187:ARG:CZ	1:C:3267:PRO:HB2	2.46	0.45
1:C:3411:LEU:HD12	1:C:3412:LEU:H	1.81	0.45
1:C:3433:GLU:OE2	1:C:3436:ARG:NE	2.36	0.45
1:A:323:LEU:HD23	1:A:324:ASP:H	1.80	0.45
1:A:1165:ASN:HA	1:A:1213:PHE:CE2	2.51	0.45
1:A:1452:TRP:CZ3	1:A:1550:PRO:HG3	2.52	0.45
1:A:1762:LEU:HD23	1:A:1765:VAL:HG21	1.97	0.45
1:A:2555:CYS:CB	1:A:2599:GLN:HE21	2.27	0.45
1:A:2650:ARG:NH2	1:A:2651:CYS:SG	2.89	0.45
1:A:2883:HIS:CE1	1:A:2905:LEU:HD22	2.48	0.45
1:A:3478:MET:O	1:B:1141:ARG:HB2	2.17	0.45
1:A:3535:LEU:HD23	1:A:3556:ASN:HD21	1.81	0.45
1:A:3573:MET:HA	1:A:3576:TYR:HB2	1.98	0.45
1:A:3821:LYS:O	1:A:3824:LYS:HE3	2.17	0.45
1:A:4673:ARG:NH1	1:A:4782:VAL:HG22	2.32	0.45
1:A:4823:LEU:HD13	1:B:4843:LEU:HD22	1.98	0.45
1:A:4843:LEU:HD13	1:D:4823:LEU:HD13	1.97	0.45
1:B:320:LYS:NZ	1:B:386:ASP:OD2	2.34	0.45
1:B:976:ARG:HA	1:B:976:ARG:HD3	1.66	0.45
1:B:1705:GLY:HA2	1:B:1708:ARG:HG2	1.97	0.45
1:B:1931:LEU:HB3	1:B:1935:VAL:HB	1.98	0.45
1:B:2579:VAL:O	1:B:2582:MET:SD	2.74	0.45
1:B:2790:MET:HA	1:B:2792:ARG:NH2	2.31	0.45
1:B:3185:LYS:HE3	1:B:3185:LYS:HB3	1.85	0.45
1:B:3644:LEU:HD21	1:B:3652:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3825:GLU:OE2	1:B:3827:GLY:N	2.48	0.45
1:B:4698:LYS:HD3	1:B:4698:LYS:N	2.31	0.45
1:B:4794:TRP:O	1:B:4798:MET:HG2	2.16	0.45
1:D:910:PHE:HB2	1:D:918:ARG:HD3	1.98	0.45
1:D:960:MET:HE3	1:D:960:MET:N	2.31	0.45
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.17	0.45
1:D:1237:TRP:HE3	1:D:1605:TRP:HB3	1.82	0.45
1:D:2107:GLN:NE2	1:D:3681:GLY:H	2.15	0.45
1:D:2122:SER:HA	1:D:3721:LEU:HD11	1.99	0.45
1:D:2552:ARG:HH11	1:D:2599:GLN:HE22	1.64	0.45
1:D:2952:GLU:HA	1:D:2957:PHE:CG	2.52	0.45
1:D:3552:PHE:O	1:D:3556:ASN:HB2	2.16	0.45
1:D:4174:PHE:HA	1:D:4177:TYR:CD2	2.51	0.45
1:D:4686:LEU:HA	1:D:4690:GLU:HB2	1.98	0.45
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.32	0.45
1:C:183:SER:OG	1:C:186:SER:OG	2.32	0.45
1:C:261:ARG:HB3	1:C:283:ARG:O	2.17	0.45
1:C:489:ASN:HB3	1:C:493:ARG:HH21	1.82	0.45
1:C:1154:ASP:HB3	1:C:1157:GLU:HB3	1.99	0.45
1:C:1286:MET:HG3	1:C:1288:PHE:CZ	2.52	0.45
1:C:1810:LYS:O	1:C:1814:MET:SD	2.75	0.45
1:C:2015:GLU:HA	1:C:2018:GLU:HB2	1.97	0.45
1:C:2107:GLN:NE2	1:C:3681:GLY:H	2.14	0.45
1:C:2433:LEU:HG	1:C:2505:PHE:HE2	1.80	0.45
1:C:2650:ARG:NH2	1:C:2651:CYS:SG	2.89	0.45
1:C:3174:SER:O	1:C:3177:THR:OG1	2.25	0.45
1:C:3185:LYS:HE3	1:C:3185:LYS:HB3	1.85	0.45
1:C:3750:GLU:H	1:C:3750:GLU:CD	2.25	0.45
1:C:4202:ARG:O	1:C:4206:GLU:HG2	2.16	0.45
1:C:4686:LEU:HA	1:C:4690:GLU:HB2	1.98	0.45
1:A:378:LEU:HD23	1:A:378:LEU:HA	1.86	0.45
1:A:554:LEU:HD11	1:A:1593:PRO:HD3	1.99	0.45
1:A:1426:ILE:O	1:A:1430:THR:HG22	2.15	0.45
1:A:1716:ILE:HG23	1:A:1847:THR:HG21	1.98	0.45
1:A:2130:GLY:HA2	1:A:2133:GLU:CD	2.42	0.45
1:A:2165:LEU:HD12	1:A:2165:LEU:HA	1.71	0.45
1:A:2287:ALA:O	1:A:2290:LEU:HB2	2.17	0.45
1:A:2423:MET:CE	1:A:2494:PHE:HA	2.29	0.45
1:A:2870[B]:GLU:OE2	1:A:2939:ARG:NE	2.50	0.45
1:A:3514:LEU:HA	1:A:3517:MET:CG	2.47	0.45
1:A:3522:LEU:CD2	1:B:1220:GLN:OE1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3552:PHE:O	1:A:3556:ASN:HB2	2.16	0.45
1:A:3735:LEU:HB3	1:A:3766:GLN:NE2	2.30	0.45
1:A:4755:GLU:OE1	1:A:4755:GLU:N	2.33	0.45
2:F:41:ASP:HB3	1:B:1690:ASP:OD1	2.16	0.45
1:B:441:VAL:O	1:B:445:LEU:HG	2.17	0.45
1:B:463:GLU:OE1	1:B:463:GLU:N	2.37	0.45
1:B:960:MET:HE3	1:B:960:MET:N	2.31	0.45
1:B:1000:ARG:HB3	1:B:1021:LEU:HD12	1.99	0.45
1:B:1085:SER:OG	1:B:1086:GLY:N	2.50	0.45
1:B:1237:TRP:HE3	1:B:1605:TRP:HB3	1.82	0.45
1:B:1252:HIS:CE1	1:B:1255:TYR:HD2	2.34	0.45
1:D:252:VAL:HA	1:D:255:HIS:CD2	2.51	0.45
1:D:595:ARG:HH22	1:D:1661:ARG:HH12	1.64	0.45
1:D:1039:LEU:O	1:D:1043:VAL:HG23	2.17	0.45
1:D:1126:GLY:HA3	1:D:1143:TRP:CD2	2.51	0.45
1:D:1141:ARG:NH2	1:C:3478:MET:CE	2.73	0.45
1:D:1220:GLN:CG	1:C:3522:LEU:HB3	2.47	0.45
1:D:1568:LYS:HE3	1:D:1568:LYS:HA	1.97	0.45
1:D:1705:GLY:HA2	1:D:1708:ARG:HG2	1.97	0.45
1:D:1739:THR:HB	1:D:1742:THR:H	1.80	0.45
1:D:2121:PHE:CZ	1:D:3701:LEU:HB2	2.51	0.45
1:D:2579:VAL:O	1:D:2582:MET:SD	2.74	0.45
1:D:2585:THR:O	1:D:2589:LEU:HG	2.17	0.45
1:D:2615:ARG:HB2	1:D:2618:MET:HG3	1.98	0.45
1:D:3411:LEU:HD12	1:D:3412:LEU:H	1.81	0.45
1:D:3644:LEU:HD21	1:D:3652:MET:SD	2.57	0.45
1:D:3813:GLN:NE2	1:D:3890:LEU:O	2.50	0.45
1:D:3950:ASN:O	1:D:3953:LYS:HG2	2.16	0.45
1:D:4837:LEU:HG	1:D:4935:LEU:HD22	1.99	0.45
1:C:168:ASP:HB3	1:C:199:LEU:HD21	1.98	0.45
1:C:623:GLU:OE2	1:C:1680:ARG:NH1	2.49	0.45
1:C:697:GLY:HA2	1:C:1636:MET:HE2	1.97	0.45
1:C:1111:PRO:HD3	1:C:1605:TRP:NE1	2.31	0.45
1:C:2130:GLY:HA2	1:C:2133:GLU:CD	2.42	0.45
1:C:2287:ALA:O	1:C:2290:LEU:HB2	2.17	0.45
1:C:2312:MET:O	1:C:2316:LYS:N	2.46	0.45
1:C:2574:HIS:CD2	1:C:2574:HIS:H	2.35	0.45
1:C:2883:HIS:CE1	1:C:2905:LEU:HD22	2.48	0.45
1:C:3179:LYS:HD3	1:C:3179:LYS:N	2.31	0.45
1:C:3308:THR:OG1	1:C:3310:ASP:OD2	2.16	0.45
1:C:3893:GLU:HA	1:C:3967:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:437:PRO:O	1:A:441:VAL:HG12	2.16	0.45
1:A:441:VAL:O	1:A:445:LEU:HG	2.17	0.45
1:A:579:GLN:HE22	1:A:582:HIS:CE1	2.35	0.45
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.17	0.45
1:A:1111:PRO:HD3	1:A:1605:TRP:NE1	2.31	0.45
1:A:1131:ARG:C	1:A:1132:TRP:HD1	2.25	0.45
1:A:1213:PHE:HD1	1:A:1216:ILE:HD12	1.82	0.45
1:A:1237:TRP:HE3	1:A:1605:TRP:HB3	1.82	0.45
1:A:1476:MET:O	1:A:1484:HIS:N	2.49	0.45
1:A:1691:GLN:O	1:A:1695:LEU:HG	2.17	0.45
1:A:1843:LYS:HE2	1:A:1938:GLN:HG2	1.98	0.45
1:A:2231:SER:HA	1:A:2234:ARG:NE	2.32	0.45
1:A:2496:PRO:HB3	1:A:2553:TYR:CE2	2.52	0.45
1:A:2500:ALA:HB2	1:A:2553:TYR:HD1	1.80	0.45
1:A:2751:LEU:O	1:A:2755:ILE:HG13	2.17	0.45
1:A:2819:TRP:C	1:A:2820:GLU:HG3	2.42	0.45
1:A:3369:ALA:O	1:A:3373:VAL:HG13	2.17	0.45
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.16	0.45
1:A:4698:LYS:HD3	1:A:4698:LYS:N	2.31	0.45
1:A:4961:CYS:SG	1:A:4963:ILE:HD12	2.57	0.45
1:B:23:GLN:HB3	1:B:34:LYS:HZ3	1.82	0.45
1:B:489:ASN:HB3	1:B:493:ARG:HH21	1.82	0.45
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.17	0.45
1:B:1101:ARG:HD3	1:B:1125:ASN:HB2	1.98	0.45
1:B:1280:GLN:OE1	1:B:1281:ASN:N	2.38	0.45
1:B:1716:ILE:HG23	1:B:1847:THR:HG21	1.98	0.45
1:B:2094:LEU:HD23	1:B:2094:LEU:H	1.81	0.45
1:B:2301:TYR:HB3	1:B:2331:TYR:CE2	2.51	0.45
1:B:2585:THR:O	1:B:2589:LEU:HG	2.17	0.45
1:B:2760:GLU:HG2	1:B:2797:PHE:CZ	2.52	0.45
1:B:3571:TRP:HE3	1:B:3575:LEU:HD23	1.81	0.45
1:B:4668:LEU:O	1:B:4672:LYS:HG3	2.16	0.45
1:B:4686:LEU:HA	1:B:4690:GLU:HB2	1.98	0.45
1:D:1119:GLU:OE2	1:D:1119:GLU:N	2.47	0.45
1:D:2036:GLN:NE2	1:D:2045:GLN:OE1	2.50	0.45
1:D:2094:LEU:HD23	1:D:2094:LEU:H	1.81	0.45
1:D:2130:GLY:HA2	1:D:2133:GLU:CD	2.42	0.45
1:D:3573:MET:HA	1:D:3573:MET:HE3	1.98	0.45
1:D:3999:MET:N	1:D:3999:MET:SD	2.90	0.45
1:D:4866:SER:OG	1:D:4868:ASP:O	2.33	0.45
1:C:230:CYS:SG	1:C:258:SER:HB2	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:474:ARG:O	1:C:478:PHE:HD1	1.99	0.45
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.17	0.45
1:C:1454:THR:OG1	1:C:1491:ASN:O	2.27	0.45
1:C:1691:GLN:O	1:C:1695:LEU:HG	2.17	0.45
1:C:1843:LYS:HE2	1:C:1938:GLN:HG2	1.98	0.45
1:C:1924:GLU:N	1:C:1924:GLU:OE2	2.48	0.45
1:C:2384:ILE:HG22	1:C:2388:GLU:OE2	2.16	0.45
1:C:2615:ARG:HB2	1:C:2618:MET:HG3	1.98	0.45
1:C:2870[B]:GLU:OE2	1:C:2939:ARG:NE	2.50	0.45
1:C:3253:ILE:HG22	1:C:3318:ASN:HB3	1.99	0.45
1:C:3368:ARG:HH22	1:C:3405:LEU:HD11	1.81	0.45
1:C:3644:LEU:HD21	1:C:3652:MET:SD	2.57	0.45
1:C:3768:SER:HA	1:C:3771:HIS:CD2	2.52	0.45
1:C:3787:LYS:HE3	1:C:3787:LYS:HB2	1.57	0.45
1:C:3813:GLN:NE2	1:C:3890:LEU:O	2.50	0.45
1:C:3821:LYS:O	1:C:3824:LYS:HE3	2.17	0.45
1:C:3950:ASN:O	1:C:3953:LYS:HG2	2.16	0.45
1:C:4634:GLU:HG2	1:C:4639:MET:HG2	1.98	0.45
1:C:4961:CYS:SG	1:C:4963:ILE:HD12	2.57	0.45
1:A:23:GLN:HB3	1:A:34:LYS:HZ3	1.82	0.45
1:A:421:PHE:HE2	1:A:436:LEU:HD21	1.82	0.45
1:A:874:LEU:HD22	1:A:1049:TYR:CE2	2.51	0.45
1:A:1000:ARG:HB3	1:A:1021:LEU:HD12	1.99	0.45
1:A:1237:TRP:CE2	1:A:1607:ARG:HB2	2.52	0.45
1:A:1447:CYS:HB3	1:A:1555:LEU:HB3	1.99	0.45
1:A:1973:GLN:OE1	1:A:3641:LEU:HG	2.17	0.45
1:A:2967:MET:HA	1:A:2970:SER:HB3	1.97	0.45
1:A:3768:SER:HA	1:A:3771:HIS:CD2	2.52	0.45
1:A:4184:MET:SD	1:A:4188:ARG:NH2	2.77	0.45
1:A:4879:MET:CG	1:D:4578:LEU:HD12	2.43	0.45
2:E:71:ARG:HA	2:E:102:GLU:OE2	2.16	0.45
2:G:7:ILE:CB	1:C:719:LEU:HD21	2.46	0.45
1:B:267:ILE:O	1:B:270:SER:OG	2.24	0.45
1:B:403:MET:HE3	1:B:403:MET:HB3	1.79	0.45
1:B:1476:MET:O	1:B:1484:HIS:N	2.49	0.45
1:B:1623:ARG:NH2	1:B:1624:LEU:HA	2.32	0.45
1:B:1966:VAL:HG11	1:B:3650:CYS:SG	2.57	0.45
1:B:2287:ALA:O	1:B:2290:LEU:HB2	2.17	0.45
1:B:2819:TRP:C	1:B:2820:GLU:HG3	2.42	0.45
1:B:2902:HIS:CD2	1:B:2905:LEU:HG	2.52	0.45
1:B:3369:ALA:O	1:B:3373:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3504:SER:O	1:B:3508:SER:N	2.48	0.45
1:B:4553:ASN:C	1:B:4557:ARG:HE	2.24	0.45
1:B:4673:ARG:NH1	1:B:4782:VAL:HG22	2.32	0.45
1:B:4961:CYS:SG	1:B:4963:ILE:HD12	2.57	0.45
1:D:244:LEU:HB2	1:D:246:TYR:CZ	2.52	0.45
1:D:1000:ARG:HB3	1:D:1021:LEU:HD12	1.99	0.45
1:D:1252:HIS:CE1	1:D:1255:TYR:HD2	2.34	0.45
1:D:1843:LYS:HE2	1:D:1938:GLN:HG2	1.98	0.45
1:D:2015:GLU:HA	1:D:2018:GLU:HB2	1.97	0.45
1:D:2088:GLU:OE1	1:D:2088:GLU:N	2.50	0.45
1:D:2358:ILE:HG13	1:D:2359:ARG:NE	2.28	0.45
1:D:2496:PRO:HB3	1:D:2553:TYR:CE2	2.52	0.45
1:D:2555:CYS:CB	1:D:2599:GLN:HE21	2.27	0.45
1:D:2574:HIS:H	1:D:2574:HIS:CD2	2.35	0.45
1:D:3062:PRO:O	1:D:3065:VAL:HG22	2.17	0.45
1:D:3243:ILE:H	1:D:3243:ILE:HD12	1.82	0.45
1:D:3821:LYS:O	1:D:3824:LYS:HE3	2.17	0.45
1:D:4562:LEU:HD23	1:D:4657:CYS:SG	2.57	0.45
1:D:4716:TRP:CG	6:D:5304:A1BD2:C4	2.99	0.45
1:D:4755:GLU:OE1	1:D:4755:GLU:N	2.33	0.45
1:D:4902:GLU:H	1:D:4902:GLU:CD	2.17	0.45
1:C:554:LEU:HD11	1:C:1593:PRO:HD3	1.99	0.45
1:C:1131:ARG:C	1:C:1132:TRP:HD1	2.25	0.45
1:C:2189:LYS:HZ1	1:C:2193:GLN:HB2	1.82	0.45
1:C:2496:PRO:HB3	1:C:2553:TYR:CE2	2.52	0.45
1:C:3053:ARG:HD3	1:C:3056:LEU:HD13	1.99	0.45
1:C:4682:GLU:OE1	1:C:4723:LYS:HE2	2.17	0.45
1:C:4715:TYR:CE2	1:C:4717:ASP:HB3	2.51	0.45
1:A:1230:MET:HG3	1:A:1234:VAL:HG23	1.99	0.45
1:A:1433:TYR:CE2	1:A:1573:MET:HB2	2.51	0.45
1:A:1660:GLN:O	1:A:1660:GLN:NE2	2.48	0.45
1:A:2122:SER:HA	1:A:3721:LEU:HD11	1.99	0.45
1:A:2170:MET:SD	1:A:2171:GLY:N	2.90	0.45
1:A:2312:MET:O	1:A:2316:LYS:N	2.46	0.45
1:A:2585:THR:O	1:A:2589:LEU:HG	2.17	0.45
1:A:2630:VAL:HG11	1:A:2678:LEU:HD22	1.98	0.45
1:A:3062:PRO:O	1:A:3065:VAL:HG22	2.17	0.45
1:A:3081:MET:HA	1:A:3089:LYS:HZ2	1.82	0.45
1:A:3172:ILE:HD12	1:A:3173:TYR:N	2.32	0.45
1:A:3442:PHE:CZ	1:A:3605:HIS:HB3	2.52	0.45
1:A:3533:ILE:HG22	1:A:3537:LYS:HZ2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4060:LYS:HA	1:A:4063:ASP:OD2	2.17	0.45
1:A:4189:ARG:HH12	1:A:4191:GLU:HG3	1.81	0.45
1:A:4813:LEU:O	1:A:4816:ILE:HG22	2.17	0.45
1:B:230:CYS:SG	1:B:258:SER:HB2	2.57	0.45
1:B:1213:PHE:HD1	1:B:1216:ILE:HD12	1.82	0.45
1:B:1251:GLU:OE1	1:B:1251:GLU:N	2.34	0.45
1:B:1601:MET:HE3	1:B:1604:SER:HB3	1.99	0.45
1:B:2130:GLY:HA2	1:B:2133:GLU:CD	2.42	0.45
1:B:2384:ILE:HG22	1:B:2388:GLU:OE2	2.16	0.45
1:B:2423:MET:CE	1:B:2494:PHE:HA	2.29	0.45
1:B:2552:ARG:HH11	1:B:2599:GLN:HE22	1.64	0.45
1:B:2870[B]:GLU:OE2	1:B:2939:ARG:NE	2.50	0.45
1:B:3035:GLU:O	1:B:3038:MET:HG3	2.17	0.45
1:B:3053:ARG:HD3	1:B:3056:LEU:HD13	1.99	0.45
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.17	0.45
1:D:954:LYS:HA	1:D:954:LYS:HD2	1.75	0.45
1:D:1154:ASP:HB3	1:D:1157:GLU:HB3	1.99	0.45
1:D:1433:TYR:CE2	1:D:1573:MET:HB2	2.51	0.45
1:D:2005:GLN:O	1:D:2009:LEU:HG	2.17	0.45
1:D:2627:VAL:HA	1:D:2678:LEU:HD11	1.98	0.45
1:D:2650:ARG:NH2	1:D:2651:CYS:SG	2.89	0.45
1:D:2960:LEU:HD12	1:D:3035:GLU:HG2	1.99	0.45
1:D:3015:LEU:HB3	1:D:3026:GLY:HA2	1.99	0.45
1:D:3051:ARG:HA	1:D:3131:TYR:OH	2.17	0.45
1:D:3172:ILE:HD12	1:D:3173:TYR:N	2.32	0.45
1:D:4715:TYR:CE2	1:D:4717:ASP:HB3	2.51	0.45
1:C:472:ARG:NH2	1:C:533:ASN:HA	2.31	0.45
1:C:579:GLN:HE22	1:C:582:HIS:CE1	2.35	0.45
1:C:765:GLN:H	1:C:765:GLN:CD	2.19	0.45
1:C:2608:MET:HE2	1:C:2643:LEU:HD23	1.98	0.45
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.17	0.45
1:C:3316:LEU:HD22	1:C:3346:VAL:HA	1.99	0.45
1:C:3514:LEU:HA	1:C:3517:MET:CG	2.47	0.45
1:C:3535:LEU:HD23	1:C:3556:ASN:HD21	1.81	0.45
1:C:3655:GLU:O	1:C:3658:LYS:HG2	2.17	0.45
1:C:3923:LEU:O	1:C:3927:GLN:HG3	2.17	0.45
1:C:4578:LEU:HD12	1:C:4579:PHE:H	1.82	0.45
1:C:4813:LEU:O	1:C:4816:ILE:HG22	2.17	0.45
1:A:244:LEU:HB2	1:A:246:TYR:CZ	2.52	0.45
1:A:382:GLY:O	1:A:383:HIS:ND1	2.48	0.45
1:A:474:ARG:O	1:A:478:PHE:HD1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1286:MET:HG3	1:A:1288:PHE:CZ	2.52	0.45
1:A:1452:TRP:CD1	1:A:1452:TRP:N	2.85	0.45
1:A:1623:ARG:NH2	1:A:1624:LEU:HA	2.32	0.45
1:A:2293:GLN:O	1:A:2296:GLU:HB2	2.17	0.45
1:A:2627:VAL:HA	1:A:2678:LEU:HD11	1.98	0.45
1:A:2902:HIS:CD2	1:A:2905:LEU:HG	2.52	0.45
1:A:2960:LEU:HD12	1:A:3035:GLU:HG2	1.99	0.45
1:A:2997:PHE:O	1:A:3001:ILE:HB	2.17	0.45
1:A:3035:GLU:O	1:A:3038:MET:HG3	2.17	0.45
1:A:3539:ARG:O	1:A:3542:LEU:HB2	2.16	0.45
1:A:3719:ASP:OD2	1:A:3722:TYR:N	2.49	0.45
1:A:3889:GLN:NE2	1:A:3967:GLU:HB2	2.32	0.45
1:A:4085:ARG:HB2	1:A:4087:LEU:HD23	1.99	0.45
1:A:4562:LEU:HD23	1:A:4657:CYS:SG	2.57	0.45
1:A:4584:ASP:OD1	1:A:4584:ASP:N	2.50	0.45
1:A:4686:LEU:HA	1:A:4690:GLU:HB2	1.98	0.45
1:A:4716:TRP:CG	6:A:5304:A1BD2:C4	2.99	0.45
2:H:40:ARG:HH21	2:H:102:GLU:HG2	1.81	0.45
1:B:244:LEU:HB2	1:B:246:TYR:CZ	2.52	0.45
1:B:342:GLY:HA2	1:B:390:LEU:O	2.17	0.45
1:B:1237:TRP:CE2	1:B:1607:ARG:HB2	2.52	0.45
1:B:2088:GLU:N	1:B:2088:GLU:OE1	2.50	0.45
1:B:2231:SER:HB3	1:B:2234:ARG:HH21	1.82	0.45
1:B:2608:MET:HE2	1:B:2643:LEU:HD23	1.99	0.45
1:B:3059:THR:O	1:B:3062:PRO:HD2	2.17	0.45
1:B:3062:PRO:O	1:B:3065:VAL:HG22	2.17	0.45
1:B:3327:LEU:HB2	1:B:3364:ARG:NH2	2.32	0.45
1:B:3368:ARG:HH22	1:B:3405:LEU:HD11	1.81	0.45
1:B:3428:ASN:OD1	1:B:3431:ALA:N	2.45	0.45
1:B:3923:LEU:O	1:B:3927:GLN:HG3	2.17	0.45
1:B:4627:MET:H	1:B:4627:MET:CE	2.26	0.45
1:B:4904:PRO:HB2	1:B:4910:GLU:HB2	1.99	0.45
1:D:276:TRP:H	1:D:338:GLU:HG2	1.81	0.45
1:D:332:GLU:H	1:D:332:GLU:CD	2.24	0.45
1:D:1085:SER:OG	1:D:1086:GLY:N	2.50	0.45
1:D:1220:GLN:CD	1:C:3522:LEU:HB3	2.42	0.45
1:D:1252:HIS:HE1	1:D:1255:TYR:CD2	2.34	0.45
1:D:1810:LYS:O	1:D:1814:MET:SD	2.75	0.45
1:D:2189:LYS:NZ	1:D:2192:TYR:HB2	2.29	0.45
1:D:2502:MET:N	1:D:2502:MET:SD	2.89	0.45
1:D:2608:MET:HE2	1:D:2643:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3514:LEU:HA	1:D:3517:MET:CG	2.46	0.45
1:D:3652:MET:HG2	1:D:3652:MET:H	1.60	0.45
1:D:4189:ARG:HH12	1:D:4191:GLU:HG3	1.81	0.45
1:D:4553:ASN:C	1:D:4557:ARG:HE	2.24	0.45
1:D:4634:GLU:HG2	1:D:4639:MET:HG2	1.98	0.45
1:D:4673:ARG:NH1	1:D:4782:VAL:HG22	2.32	0.45
1:D:4995:LEU:HD22	1:D:5003:HIS:CE1	2.52	0.45
1:C:15:ARG:HD3	1:C:16:THR:N	2.31	0.45
1:C:484:LEU:HD23	1:C:539:LEU:HD12	1.99	0.45
1:C:734:GLY:O	1:C:736:HIS:ND1	2.50	0.45
1:C:2760:GLU:HG2	1:C:2797:PHE:CZ	2.52	0.45
1:C:3573:MET:HA	1:C:3573:MET:HE3	1.98	0.45
1:C:4562:LEU:HD23	1:C:4657:CYS:SG	2.57	0.45
1:A:664:PHE:CE2	1:A:779:PRO:HB3	2.53	0.44
1:A:1966:VAL:HG11	1:A:3650:CYS:SG	2.57	0.44
1:A:2107:GLN:NE2	1:A:3681:GLY:H	2.15	0.44
1:A:2902:HIS:HB3	1:A:2905:LEU:HB2	1.99	0.44
1:A:3179:LYS:HD3	1:A:3179:LYS:N	2.31	0.44
1:A:3232:LEU:HD13	1:A:3232:LEU:HA	1.84	0.44
1:A:3253:ILE:HG22	1:A:3318:ASN:HB3	1.99	0.44
1:A:3944:GLU:CD	1:A:3946:GLN:H	2.23	0.44
1:A:4904:PRO:HB2	1:A:4910:GLU:HB2	1.99	0.44
1:B:510:GLU:OE1	1:B:510:GLU:N	2.49	0.44
1:B:931:THR:HG21	1:B:991:ASN:HD22	1.81	0.44
1:B:1496:TRP:CE2	1:B:1498:GLY:HA3	2.52	0.44
1:B:1691:GLN:O	1:B:1695:LEU:HG	2.17	0.44
1:B:2231:SER:HA	1:B:2234:ARG:NE	2.31	0.44
1:B:3368:ARG:HA	1:B:3371:LYS:HE2	1.98	0.44
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.52	0.44
1:B:3821:LYS:O	1:B:3824:LYS:HE3	2.17	0.44
1:B:3889:GLN:NE2	1:B:3967:GLU:HB2	2.32	0.44
1:B:4682:GLU:OE1	1:B:4723:LYS:HE2	2.17	0.44
1:D:579:GLN:HB2	1:D:581:ASN:OD1	2.17	0.44
1:D:1033:ARG:HA	1:D:1036:ARG:NH1	2.32	0.44
1:D:1973:GLN:OE1	1:D:3641:LEU:HG	2.17	0.44
1:D:2751:LEU:O	1:D:2755:ILE:HG13	2.17	0.44
1:D:3059:THR:O	1:D:3062:PRO:HD2	2.17	0.44
1:D:3621:HIS:CE1	1:D:3623:LEU:HD23	2.52	0.44
1:D:3893:GLU:HA	1:D:3967:GLU:OE1	2.17	0.44
1:D:4627:MET:H	1:D:4627:MET:CE	2.26	0.44
1:D:4723:LYS:HB2	1:D:4723:LYS:HE2	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4813:LEU:O	1:D:4816:ILE:HG22	2.17	0.44
1:C:342:GLY:HA2	1:C:390:LEU:O	2.17	0.44
1:C:613:ALA:HB3	1:C:1676:LEU:HD13	1.99	0.44
1:C:1085:SER:OG	1:C:1086:GLY:N	2.50	0.44
1:C:1252:HIS:CE1	1:C:1255:TYR:HD2	2.34	0.44
1:C:2328:GLY:HA3	1:C:2425:PHE:HE2	1.81	0.44
1:C:2819:TRP:C	1:C:2820:GLU:HG3	2.42	0.44
1:C:3172:ILE:HD12	1:C:3173:TYR:N	2.32	0.44
1:C:4189:ARG:HH12	1:C:4191:GLU:HG3	1.81	0.44
1:C:4553:ASN:C	1:C:4557:ARG:HE	2.24	0.44
1:A:910:PHE:HB2	1:A:918:ARG:HD3	1.98	0.44
1:A:1496:TRP:CE2	1:A:1498:GLY:HA3	2.52	0.44
1:A:2237:CYS:HA	1:A:2240:CYS:SG	2.57	0.44
1:A:3015:LEU:HB3	1:A:3026:GLY:HA2	1.99	0.44
1:A:3575:LEU:HD21	1:B:1208:VAL:CG1	2.47	0.44
1:A:3621:HIS:CE1	1:A:3623:LEU:HD23	2.52	0.44
1:A:3923:LEU:O	1:A:3927:GLN:HG3	2.17	0.44
1:A:4837:LEU:HG	1:A:4935:LEU:HD22	1.99	0.44
1:A:4995:LEU:HD22	1:A:5003:HIS:CE1	2.52	0.44
2:G:84:ALA:O	2:G:93:PRO:HB3	2.17	0.44
1:B:179:TYR:HB3	1:B:197:GLN:HA	1.99	0.44
1:B:411:TYR:HE1	1:B:441:VAL:HG23	1.83	0.44
1:B:579:GLN:HB2	1:B:581:ASN:OD1	2.17	0.44
1:B:613:ALA:HB3	1:B:1676:LEU:HD13	2.00	0.44
1:B:738:LEU:H	1:B:738:LEU:HD12	1.83	0.44
1:B:1033:ARG:HA	1:B:1036:ARG:NH1	2.32	0.44
1:B:2107:GLN:NE2	1:B:3683:GLN:OE1	2.31	0.44
1:B:2170:MET:SD	1:B:2171:GLY:N	2.90	0.44
1:B:2336:ARG:HG3	1:B:2431:ASP:OD2	2.17	0.44
1:B:2481:LYS:O	1:B:2482:ASP:CG	2.61	0.44
1:B:2997:PHE:O	1:B:3001:ILE:HB	2.17	0.44
1:B:3046:LEU:O	1:B:3050:VAL:HG12	2.17	0.44
1:B:3655:GLU:O	1:B:3658:LYS:HG2	2.17	0.44
1:B:3813:GLN:NE2	1:B:3890:LEU:O	2.50	0.44
1:B:4189:ARG:HH12	1:B:4191:GLU:HG3	1.81	0.44
1:B:4562:LEU:HD23	1:B:4657:CYS:SG	2.57	0.44
1:B:4864:ASN:O	1:B:4865:LYS:HD3	2.18	0.44
1:D:734:GLY:O	1:D:736:HIS:ND1	2.50	0.44
1:D:892:THR:O	1:D:904:HIS:N	2.50	0.44
1:D:1131:ARG:C	1:D:1132:TRP:HD1	2.25	0.44
1:D:1452:TRP:CD1	1:D:1452:TRP:N	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1452:TRP:CZ3	1:D:1550:PRO:HG3	2.52	0.44
1:D:1601:MET:HE3	1:D:1604:SER:HB3	1.99	0.44
1:D:2231:SER:HA	1:D:2234:ARG:NE	2.31	0.44
1:D:2381:GLU:HB2	1:D:2385:ARG:HH21	1.83	0.44
1:D:2503:VAL:HG11	1:D:2557:ALA:HB1	2.00	0.44
1:D:2630:VAL:HG11	1:D:2678:LEU:HD22	1.98	0.44
1:D:2870[B]:GLU:OE2	1:D:2939:ARG:NE	2.50	0.44
1:D:3384:LYS:HG3	1:D:3386:GLU:H	1.82	0.44
1:D:3906:GLN:NE2	1:D:3913:ILE:O	2.44	0.44
1:D:4060:LYS:HA	1:D:4063:ASP:OD2	2.17	0.44
1:D:4682:GLU:OE1	1:D:4723:LYS:HE2	2.17	0.44
1:D:4821:LYS:O	1:D:4821:LYS:HD3	2.18	0.44
1:D:4961:CYS:SG	1:D:4963:ILE:HD12	2.57	0.44
1:C:459:LEU:HB2	1:C:464:LYS:HG3	2.00	0.44
1:C:1033:ARG:HA	1:C:1036:ARG:NH1	2.32	0.44
1:C:1039:LEU:O	1:C:1043:VAL:HG23	2.17	0.44
1:C:1132:TRP:CG	1:C:1136:SER:HG	2.34	0.44
1:C:1452:TRP:CZ3	1:C:1550:PRO:HG3	2.52	0.44
1:C:1568:LYS:HA	1:C:1568:LYS:HE3	1.98	0.44
1:C:1623:ARG:NH2	1:C:1624:LEU:HA	2.32	0.44
1:C:1973:GLN:OE1	1:C:3641:LEU:HG	2.17	0.44
1:C:2094:LEU:HA	1:C:2097:LEU:HG	2.00	0.44
1:C:2336:ARG:HG3	1:C:2431:ASP:OD2	2.17	0.44
1:C:2555:CYS:CB	1:C:2599:GLN:HE21	2.27	0.44
1:C:2770:LYS:HA	1:C:2786:LYS:HZ3	1.82	0.44
1:C:2825:LYS:HE3	1:C:2936:ALA:H	1.82	0.44
1:C:3369:ALA:O	1:C:3373:VAL:HG13	2.17	0.44
1:C:3442:PHE:CZ	1:C:3605:HIS:HB3	2.52	0.44
1:C:3590:GLU:CD	1:C:3590:GLU:N	2.75	0.44
1:C:3629:ARG:O	1:C:3633:VAL:HG23	2.17	0.44
1:A:375:LYS:HD2	1:A:376:ALA:H	1.82	0.44
1:A:710:ASP:C	1:A:724:GLY:HA2	2.43	0.44
1:A:960:MET:HE3	1:A:960:MET:N	2.31	0.44
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.18	0.44
1:A:2088:GLU:OE1	1:A:2088:GLU:N	2.50	0.44
1:A:2760:GLU:HG2	1:A:2797:PHE:CZ	2.52	0.44
1:A:3080:VAL:O	1:A:3089:LYS:NZ	2.51	0.44
1:A:3243:ILE:H	1:A:3243:ILE:HD12	1.82	0.44
1:A:3384:LYS:HG3	1:A:3386:GLU:H	1.82	0.44
1:A:3384:LYS:CG	1:A:3386:GLU:HG3	2.48	0.44
1:A:3666:ASP:OD2	1:A:3667:HIS:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:21:THR:OG1	2:E:107:GLU:HB2	2.17	0.44
2:H:52:LYS:HB3	2:H:54:GLU:OE1	2.17	0.44
1:B:459:LEU:HB2	1:B:464:LYS:HG3	1.99	0.44
1:B:575:LEU:HD11	1:B:606:LEU:HD12	1.99	0.44
1:B:734:GLY:O	1:B:736:HIS:ND1	2.50	0.44
1:B:1581:LEU:HA	1:B:1584:ARG:HB2	1.99	0.44
1:B:2094:LEU:HA	1:B:2097:LEU:HG	2.00	0.44
1:B:3080:VAL:O	1:B:3089:LYS:NZ	2.51	0.44
1:B:3590:GLU:CD	1:B:3590:GLU:N	2.75	0.44
1:B:4150:LEU:HD23	1:B:4150:LEU:HA	1.76	0.44
1:B:4813:LEU:O	1:B:4816:ILE:HG22	2.17	0.44
1:D:179:TYR:HB3	1:D:197:GLN:HA	2.00	0.44
1:D:437:PRO:O	1:D:441:VAL:HG12	2.16	0.44
1:D:441:VAL:O	1:D:445:LEU:HG	2.17	0.44
1:D:459:LEU:HB2	1:D:464:LYS:HG3	2.00	0.44
1:D:579:GLN:HE22	1:D:582:HIS:CE1	2.35	0.44
1:D:681:HIS:O	1:D:784:SER:N	2.42	0.44
1:D:1111:PRO:HD3	1:D:1605:TRP:NE1	2.31	0.44
1:D:1237:TRP:CE2	1:D:1607:ARG:HB2	2.52	0.44
1:D:1581:LEU:HA	1:D:1584:ARG:HB2	1.99	0.44
1:D:1623:ARG:NH2	1:D:1624:LEU:HA	2.32	0.44
1:D:1658:ASP:OD1	1:D:1659:LEU:N	2.48	0.44
1:D:1966:VAL:HG11	1:D:3650:CYS:SG	2.57	0.44
1:D:2094:LEU:HA	1:D:2097:LEU:HG	2.00	0.44
1:D:2259:GLU:HB2	1:D:2297:LYS:HZ3	1.82	0.44
1:D:2287:ALA:HA	1:D:2290:LEU:HD12	1.99	0.44
1:D:2328:GLY:HA3	1:D:2425:PHE:HE2	1.81	0.44
1:D:3132:THR:HG23	1:D:3136:LEU:HB2	2.00	0.44
1:D:3253:ILE:HG22	1:D:3318:ASN:HB3	1.99	0.44
1:D:3316:LEU:HD22	1:D:3346:VAL:HA	1.99	0.44
1:D:3535:LEU:HD23	1:D:3556:ASN:HD21	1.81	0.44
1:D:3563:VAL:HG23	1:D:3569:LEU:HB3	1.98	0.44
1:D:3655:GLU:O	1:D:3658:LYS:HG2	2.17	0.44
1:D:3941:ASP:OD1	1:D:3941:ASP:N	2.51	0.44
1:D:4085:ARG:HB2	1:D:4087:LEU:HD23	1.99	0.44
1:C:229:GLU:CD	1:C:247:TYR:HB3	2.42	0.44
1:C:244:LEU:HB2	1:C:246:TYR:CZ	2.52	0.44
1:C:411:TYR:HE1	1:C:441:VAL:HG23	1.83	0.44
1:C:437:PRO:O	1:C:441:VAL:HG12	2.16	0.44
1:C:595:ARG:HH22	1:C:1661:ARG:HH12	1.64	0.44
1:C:1000:ARG:HB3	1:C:1021:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1966:VAL:HG11	1:C:3650:CYS:SG	2.57	0.44
1:C:2237:CYS:HA	1:C:2240:CYS:SG	2.57	0.44
1:C:2287:ALA:HA	1:C:2290:LEU:HD12	1.99	0.44
1:C:2980:VAL:HG11	1:C:2986:VAL:HG12	1.99	0.44
1:C:3384:LYS:HG3	1:C:3386:GLU:H	1.82	0.44
1:C:3889:GLN:NE2	1:C:3967:GLU:HB2	2.32	0.44
1:C:3941:ASP:OD1	1:C:3941:ASP:N	2.51	0.44
1:C:4821:LYS:O	1:C:4821:LYS:HD3	2.18	0.44
1:C:4866:SER:OG	1:C:4868:ASP:O	2.33	0.44
1:A:230:CYS:SG	1:A:258:SER:HB2	2.57	0.44
1:A:489:ASN:HB3	1:A:493:ARG:HH21	1.82	0.44
1:A:700:GLU:O	1:A:705:ASN:ND2	2.30	0.44
1:A:793:LEU:HD23	1:A:793:LEU:HA	1.83	0.44
1:A:1085:SER:OG	1:A:1086:GLY:N	2.50	0.44
1:A:1154:ASP:HB3	1:A:1157:GLU:HB3	1.99	0.44
1:A:1671:ARG:NE	1:A:1671:ARG:O	2.51	0.44
1:A:2094:LEU:HD23	1:A:2094:LEU:H	1.81	0.44
1:A:2825:LYS:HE3	1:A:2936:ALA:H	1.82	0.44
1:A:3172:ILE:HD13	1:A:3194:LEU:CD2	2.47	0.44
1:A:4645:CYS:O	1:A:4649:LEU:HG	2.17	0.44
1:A:4821:LYS:O	1:A:4821:LYS:HD3	2.18	0.44
2:F:74:LEU:N	2:F:99:PHE:O	2.32	0.44
1:B:229:GLU:CD	1:B:247:TYR:HB3	2.42	0.44
1:B:261:ARG:HB3	1:B:283:ARG:O	2.17	0.44
1:B:765:GLN:H	1:B:765:GLN:CD	2.19	0.44
1:B:1093:GLU:N	1:B:1201:HIS:O	2.35	0.44
1:B:1180:ARG:HB3	1:B:1181:GLU:CD	2.42	0.44
1:B:1748:PHE:CE1	1:B:1760:HIS:HA	2.53	0.44
1:B:1973:GLN:OE1	1:B:3641:LEU:HG	2.17	0.44
1:B:2825:LYS:HE3	1:B:2936:ALA:H	1.82	0.44
1:B:2883:HIS:CE1	1:B:2905:LEU:HD22	2.48	0.44
1:B:3384:LYS:CG	1:B:3386:GLU:HG3	2.48	0.44
1:B:3545:THR:OG1	1:B:3547:GLU:OE1	2.21	0.44
1:B:3750:GLU:CD	1:B:3750:GLU:H	2.25	0.44
1:B:4821:LYS:O	1:B:4821:LYS:HD3	2.18	0.44
1:D:38:ALA:HB2	1:D:65:CYS:SG	2.58	0.44
1:D:414:PHE:CZ	1:D:418:LEU:HD11	2.53	0.44
1:D:1131:ARG:NH1	1:D:1139:PHE:HB2	2.32	0.44
1:D:1671:ARG:NE	1:D:1671:ARG:O	2.51	0.44
1:D:1932:PRO:O	1:D:1936:LYS:HG3	2.18	0.44
1:D:2023:LEU:HD22	1:D:2027:ILE:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2420:HIS:O	1:D:2424:SER:OG	2.29	0.44
1:D:2474:LEU:HD13	1:D:2496:PRO:HG3	2.00	0.44
1:D:2579:VAL:HA	1:D:2582:MET:SD	2.58	0.44
1:D:2760:GLU:HG2	1:D:2797:PHE:CZ	2.52	0.44
1:D:2819:TRP:C	1:D:2820:GLU:HG3	2.42	0.44
1:D:3105:LYS:HB2	1:D:3105:LYS:HE2	1.80	0.44
1:D:3384:LYS:CG	1:D:3386:GLU:HG3	2.48	0.44
1:C:892:THR:O	1:C:904:HIS:N	2.50	0.44
1:C:931:THR:HG21	1:C:991:ASN:HD22	1.81	0.44
1:C:2005:GLN:O	1:C:2009:LEU:HG	2.17	0.44
1:C:3048:ALA:O	1:C:3051:ARG:HB3	2.18	0.44
1:C:3062:PRO:O	1:C:3065:VAL:HG22	2.17	0.44
1:C:3243:ILE:H	1:C:3243:ILE:HD12	1.82	0.44
1:C:3666:ASP:OD2	1:C:3667:HIS:N	2.50	0.44
1:C:4645:CYS:O	1:C:4649:LEU:HG	2.17	0.44
1:C:4673:ARG:NH1	1:C:4782:VAL:HG22	2.32	0.44
1:C:4864:ASN:O	1:C:4865:LYS:HD3	2.18	0.44
1:A:38:ALA:HB2	1:A:65:CYS:SG	2.58	0.44
1:A:484:LEU:HD23	1:A:539:LEU:HD12	1.99	0.44
1:A:1932:PRO:O	1:A:1936:LYS:HG3	2.18	0.44
1:A:2094:LEU:HA	1:A:2097:LEU:HG	2.00	0.44
1:A:2675:THR:HG22	1:A:2710:LEU:HD21	2.00	0.44
1:A:2980:VAL:HG11	1:A:2986:VAL:HG12	1.99	0.44
1:A:3134:VAL:O	1:A:3138:PRO:HG2	2.18	0.44
1:A:3219:TYR:OH	1:A:3235:SER:N	2.51	0.44
1:A:3445:TRP:HA	1:A:3451:PHE:CD2	2.53	0.44
1:A:3573:MET:HA	1:A:3573:MET:HE3	1.98	0.44
1:A:3813:GLN:NE2	1:A:3890:LEU:O	2.50	0.44
1:A:3999:MET:N	1:A:3999:MET:SD	2.90	0.44
2:H:55:VAL:HG13	1:D:1783:VAL:HG12	1.99	0.44
2:H:105:LYS:HD2	2:H:105:LYS:HA	1.68	0.44
1:B:414:PHE:CZ	1:B:418:LEU:HD11	2.53	0.44
1:B:579:GLN:HE22	1:B:582:HIS:CE1	2.35	0.44
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.52	0.44
1:B:663:TYR:CD2	1:B:804:PRO:HB3	2.53	0.44
1:B:892:THR:O	1:B:904:HIS:N	2.51	0.44
1:B:1154:ASP:HB3	1:B:1157:GLU:HB3	1.99	0.44
1:B:1230:MET:HG3	1:B:1234:VAL:HG23	1.99	0.44
1:B:1286:MET:HG3	1:B:1288:PHE:CZ	2.52	0.44
1:B:1660:GLN:O	1:B:1660:GLN:NE2	2.48	0.44
1:B:2005:GLN:O	1:B:2009:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2503:VAL:HG11	1:B:2557:ALA:HB1	2.00	0.44
1:B:2600:ARG:HA	1:B:2603:ILE:HD12	2.00	0.44
1:B:2770:LYS:HA	1:B:2786:LYS:HZ3	1.83	0.44
1:B:2960:LEU:HD12	1:B:3035:GLU:HG2	1.99	0.44
1:B:3132:THR:HG23	1:B:3136:LEU:HB2	2.00	0.44
1:B:3540:TYR:CZ	1:B:3549:VAL:HG21	2.53	0.44
1:B:3629:ARG:O	1:B:3633:VAL:HG23	2.18	0.44
1:D:392:ARG:HD2	1:D:393:CYS:N	2.33	0.44
1:D:551:LEU:HB3	1:D:589:LEU:HD11	1.99	0.44
1:D:829:TYR:O	1:D:840:VAL:N	2.45	0.44
1:D:2293:GLN:O	1:D:2296:GLU:HB2	2.17	0.44
1:D:2825:LYS:HE3	1:D:2936:ALA:H	1.82	0.44
1:D:3048:ALA:O	1:D:3051:ARG:HB3	2.18	0.44
1:D:5012:LYS:HE2	1:D:5012:LYS:HA	1.98	0.44
1:C:316:PHE:HB3	1:C:346:CYS:SG	2.58	0.44
1:C:575:LEU:HA	1:C:575:LEU:HD12	1.76	0.44
1:C:738:LEU:H	1:C:738:LEU:HD12	1.83	0.44
1:C:1932:PRO:O	1:C:1936:LYS:HG3	2.18	0.44
1:C:2552:ARG:HH11	1:C:2599:GLN:HE22	1.64	0.44
1:C:3035:GLU:O	1:C:3038:MET:HG3	2.17	0.44
1:C:3046:LEU:O	1:C:3050:VAL:HG12	2.17	0.44
1:C:3134:VAL:O	1:C:3138:PRO:HG2	2.18	0.44
1:C:3384:LYS:CG	1:C:3386:GLU:HG3	2.48	0.44
1:C:3571:TRP:HE3	1:C:3575:LEU:HD23	1.81	0.44
1:C:3999:MET:N	1:C:3999:MET:SD	2.90	0.44
1:A:316:PHE:HB3	1:A:346:CYS:SG	2.58	0.44
1:A:414:PHE:CZ	1:A:418:LEU:HD11	2.53	0.44
1:A:462:GLU:OE2	1:A:462:GLU:N	2.38	0.44
1:A:1033:ARG:HA	1:A:1036:ARG:NH1	2.32	0.44
1:A:1252:HIS:CE1	1:A:1255:TYR:HD2	2.34	0.44
1:A:2336:ARG:HG3	1:A:2431:ASP:OD2	2.17	0.44
1:A:2552:ARG:HH11	1:A:2599:GLN:HE22	1.64	0.44
1:A:2608:MET:HE2	1:A:2643:LEU:HD23	1.99	0.44
1:A:2770:LYS:HB3	1:A:2786:LYS:HZ2	1.83	0.44
1:A:3368:ARG:O	1:A:3372:VAL:HG22	2.18	0.44
1:A:3527:PRO:HA	1:A:3530:GLN:CG	2.48	0.44
1:A:3629:ARG:O	1:A:3633:VAL:HG23	2.18	0.44
1:A:4124:ASN:ND2	1:A:4126:GLU:OE2	2.51	0.44
1:A:4232:GLU:HB2	1:A:5019:TRP:HE1	1.83	0.44
1:A:4682:GLU:OE1	1:A:4723:LYS:HE2	2.17	0.44
1:B:421:PHE:HE2	1:B:436:LEU:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:LEU:HD23	1:B:539:LEU:HD12	1.99	0.44
1:B:983:THR:O	1:B:987:ARG:HG3	2.18	0.44
1:B:1452:TRP:CZ3	1:B:1550:PRO:HG3	2.52	0.44
1:B:1807:LEU:HD23	1:B:1848:LEU:HD21	2.00	0.44
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.18	0.44
1:B:2770:LYS:HB3	1:B:2786:LYS:HZ2	1.83	0.44
1:B:2902:HIS:HB3	1:B:2905:LEU:HB2	1.99	0.44
1:B:3068:LEU:HD13	1:B:3139:VAL:HG11	2.00	0.44
1:B:3253:ILE:HG22	1:B:3318:ASN:HB3	1.99	0.44
1:B:3445:TRP:HA	1:B:3451:PHE:CD2	2.53	0.44
1:B:3666:ASP:OD2	1:B:3667:HIS:N	2.50	0.44
1:D:23:GLN:HB3	1:D:34:LYS:HZ3	1.82	0.44
1:D:411:TYR:HE1	1:D:441:VAL:HG23	1.83	0.44
1:D:471:LEU:HA	1:D:474:ARG:NH1	2.33	0.44
1:D:489:ASN:HB3	1:D:493:ARG:HH21	1.82	0.44
1:D:1230:MET:HG3	1:D:1234:VAL:HG23	1.99	0.44
1:D:1691:GLN:O	1:D:1695:LEU:HG	2.17	0.44
1:D:1748:PHE:CE1	1:D:1760:HIS:HA	2.53	0.44
1:D:2336:ARG:HG3	1:D:2431:ASP:OD2	2.17	0.44
1:D:2798:SER:HB2	1:D:2800:LYS:NZ	2.33	0.44
1:D:3051:ARG:O	1:D:3053:ARG:NH2	2.45	0.44
1:D:3368:ARG:HA	1:D:3371:LYS:HE2	1.99	0.44
1:D:3369:ALA:O	1:D:3373:VAL:HG13	2.17	0.44
1:D:3525:CYS:SG	1:D:3599:VAL:HG11	2.58	0.44
1:D:3629:ARG:O	1:D:3633:VAL:HG23	2.18	0.44
1:D:4124:ASN:ND2	1:D:4126:GLU:OE2	2.51	0.44
1:D:4645:CYS:O	1:D:4649:LEU:HG	2.17	0.44
1:D:4843:LEU:HD22	1:C:4823:LEU:HD22	1.98	0.44
1:C:38:ALA:HB2	1:C:65:CYS:SG	2.58	0.44
1:C:283:ARG:HH11	1:C:288:GLY:HA2	1.83	0.44
1:C:414:PHE:CZ	1:C:418:LEU:HD11	2.53	0.44
1:C:1242:LEU:HD21	1:C:1458:HIS:CD2	2.53	0.44
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.18	0.44
1:C:2122:SER:HA	1:C:3721:LEU:HD11	1.99	0.44
1:C:2293:GLN:O	1:C:2296:GLU:HB2	2.18	0.44
1:C:3051:ARG:HA	1:C:3131:TYR:OH	2.17	0.44
1:C:3132:THR:HG23	1:C:3136:LEU:HB2	2.00	0.44
1:C:4584:ASP:OD1	1:C:4584:ASP:N	2.50	0.44
1:C:4995:LEU:HD22	1:C:5003:HIS:CE1	2.52	0.44
1:A:411:TYR:HE1	1:A:441:VAL:HG23	1.83	0.44
1:A:575:LEU:HD11	1:A:606:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:738:LEU:HD12	1:A:738:LEU:H	1.83	0.44
1:A:892:THR:O	1:A:904:HIS:N	2.50	0.44
1:A:2023:LEU:HD22	1:A:2027:ILE:HD13	2.00	0.44
1:A:2231:SER:HB3	1:A:2234:ARG:HH21	1.81	0.44
1:A:2288:LEU:HB3	1:A:3849:ARG:HG3	1.99	0.44
1:A:2770:LYS:HA	1:A:2786:LYS:HZ3	1.83	0.44
1:A:2798:SER:HB2	1:A:2800:LYS:NZ	2.33	0.44
1:A:3173:TYR:CG	1:A:3243:ILE:HG13	2.53	0.44
2:H:53:GLN:NE2	2:H:57:ARG:HB2	2.31	0.44
2:G:17:LYS:O	2:G:17:LYS:HD3	2.18	0.44
1:B:54:ASN:HB3	1:B:57:ASN:HB2	1.99	0.44
1:B:554:LEU:HD11	1:B:1593:PRO:HD3	1.99	0.44
1:B:582:HIS:O	1:B:585:SER:OG	2.28	0.44
1:B:2122:SER:HA	1:B:3721:LEU:HD11	1.99	0.44
1:B:2293:GLN:O	1:B:2296:GLU:HB2	2.17	0.44
1:B:2381:GLU:HB2	1:B:2385:ARG:HH21	1.83	0.44
1:B:3219:TYR:OH	1:B:3235:SER:N	2.51	0.44
1:B:3478:MET:O	1:C:1141:ARG:HB2	2.18	0.44
1:B:3621:HIS:CE1	1:B:3623:LEU:HD23	2.52	0.44
1:B:3829:PHE:CE2	1:B:3906:GLN:HG2	2.53	0.44
1:B:3893:GLU:HA	1:B:3967:GLU:OE1	2.17	0.44
1:B:4067:LYS:HB2	1:B:4067:LYS:HE3	1.75	0.44
1:B:4085:ARG:HB2	1:B:4087:LEU:HD23	1.99	0.44
1:B:4124:ASN:ND2	1:B:4126:GLU:OE2	2.51	0.44
1:B:4232:GLU:HB2	1:B:5019:TRP:HE1	1.83	0.44
1:D:469:ARG:NH2	1:D:3710:LEU:O	2.48	0.44
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.52	0.44
1:D:647:ASN:C	1:D:648:ILE:HD12	2.43	0.44
1:D:1093:GLU:N	1:D:1201:HIS:O	2.35	0.44
1:D:1242:LEU:HD21	1:D:1458:HIS:CD2	2.53	0.44
1:D:1286:MET:HG3	1:D:1288:PHE:CZ	2.52	0.44
1:D:2170:MET:SD	1:D:2171:GLY:N	2.90	0.44
1:D:2481:LYS:O	1:D:2482:ASP:CG	2.61	0.44
1:D:3046:LEU:O	1:D:3050:VAL:HG12	2.17	0.44
1:D:3172:ILE:HD13	1:D:3194:LEU:CD2	2.47	0.44
1:D:3219:TYR:OH	1:D:3235:SER:N	2.51	0.44
1:D:3442:PHE:CZ	1:D:3605:HIS:HB3	2.52	0.44
1:D:3750:GLU:CD	1:D:3750:GLU:H	2.25	0.44
1:D:3889:GLN:NE2	1:D:3967:GLU:HB2	2.32	0.44
1:D:4578:LEU:HD12	1:D:4579:PHE:H	1.82	0.44
1:D:4584:ASP:OD1	1:D:4584:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4877:ASP:HA	1:C:4582:VAL:HG22	2.00	0.44
1:C:332:GLU:CD	1:C:332:GLU:H	2.24	0.44
1:C:441:VAL:O	1:C:445:LEU:HG	2.17	0.44
1:C:663:TYR:CD2	1:C:804:PRO:HB3	2.53	0.44
1:C:860:GLN:O	1:C:930:LYS:HD3	2.17	0.44
1:C:875:ALA:C	1:C:879:HIS:HD1	2.16	0.44
1:C:1496:TRP:CE2	1:C:1498:GLY:HA3	2.52	0.44
1:C:1612:PHE:O	1:C:1614:GLN:NE2	2.44	0.44
1:C:2902:HIS:HB3	1:C:2905:LEU:HB2	1.99	0.44
1:C:2960:LEU:HD12	1:C:3035:GLU:HG2	1.99	0.44
1:C:3196:ARG:NH1	1:C:3196:ARG:HA	2.33	0.44
1:C:3219:TYR:OH	1:C:3235:SER:N	2.51	0.44
1:C:3540:TYR:CZ	1:C:3549:VAL:HG21	2.53	0.44
1:C:3563:VAL:HG23	1:C:3569:LEU:HB3	1.98	0.44
1:C:4060:LYS:HA	1:C:4063:ASP:OD2	2.17	0.44
1:C:5017:ARG:HG3	1:C:5017:ARG:HH11	1.83	0.44
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.52	0.44
1:A:734:GLY:O	1:A:736:HIS:ND1	2.50	0.44
1:A:884:LEU:HA	1:A:887:ILE:HG22	2.00	0.44
1:A:1261:ASP:OD2	1:A:1262:GLY:N	2.51	0.44
1:A:2313:LEU:HD12	1:A:2316:LYS:HE2	2.00	0.44
1:A:2579:VAL:HA	1:A:2582:MET:SD	2.58	0.44
1:A:2600:ARG:HA	1:A:2603:ILE:HD12	2.00	0.44
1:A:2757:LYS:HD3	1:A:2761:TYR:CD2	2.53	0.44
1:A:3525:CYS:SG	1:A:3599:VAL:HG11	2.58	0.44
1:A:3540:TYR:CZ	1:A:3549:VAL:HG21	2.53	0.44
1:A:3893:GLU:HA	1:A:3967:GLU:OE1	2.17	0.44
1:A:4243:PHE:O	1:A:4247:ILE:HG12	2.18	0.44
2:E:87:HIS:HB3	2:E:91:ILE:H	1.83	0.44
1:B:38:ALA:HB2	1:B:65:CYS:SG	2.58	0.44
1:B:469:ARG:NH2	1:B:3710:LEU:O	2.48	0.44
1:B:471:LEU:HA	1:B:474:ARG:NH1	2.33	0.44
1:B:892:THR:OG1	1:B:902:ARG:O	2.21	0.44
1:B:1290:ARG:HB3	1:B:1598:GLN:HB2	2.00	0.44
1:B:1640:HIS:HD1	1:B:1646:ARG:C	2.26	0.44
1:B:1932:PRO:O	1:B:1936:LYS:HG3	2.18	0.44
1:B:3172:ILE:HD12	1:B:3173:TYR:N	2.32	0.44
1:B:3243:ILE:HD12	1:B:3243:ILE:H	1.82	0.44
1:B:3384:LYS:HG3	1:B:3386:GLU:H	1.82	0.44
1:B:3451:PHE:HA	1:B:3454:GLU:OE2	2.18	0.44
1:B:3563:VAL:HG23	1:B:3569:LEU:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4185:GLY:HA3	1:B:4189:ARG:O	2.18	0.44
1:D:316:PHE:HB3	1:D:346:CYS:SG	2.58	0.44
1:D:421:PHE:HE2	1:D:436:LEU:HD21	1.82	0.44
1:D:575:LEU:HD11	1:D:606:LEU:HD12	2.00	0.44
1:D:589:LEU:HA	1:D:592:LYS:HD3	2.00	0.44
1:D:931:THR:HG21	1:D:991:ASN:HD22	1.81	0.44
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.18	0.44
1:D:2643:LEU:HA	1:D:2646:ASN:ND2	2.33	0.44
1:D:2770:LYS:HA	1:D:2786:LYS:HZ3	1.83	0.44
1:D:3035:GLU:O	1:D:3038:MET:HG3	2.17	0.44
1:D:3068:LEU:HD13	1:D:3139:VAL:HG11	2.00	0.44
1:D:3527:PRO:HA	1:D:3530:GLN:CG	2.48	0.44
1:D:3768:SER:HA	1:D:3771:HIS:CD2	2.52	0.44
1:D:3825:GLU:OE2	1:D:3827:GLY:N	2.48	0.44
1:C:54:ASN:HB3	1:C:57:ASN:HB2	2.00	0.44
1:C:403:MET:HE3	1:C:403:MET:HB3	1.80	0.44
1:C:471:LEU:HA	1:C:474:ARG:NH1	2.33	0.44
1:C:613:ALA:H	1:C:1676:LEU:HD13	1.83	0.44
1:C:772:ASN:HB2	1:C:1470:ARG:HH11	1.83	0.44
1:C:960:MET:HE3	1:C:960:MET:N	2.31	0.44
1:C:983:THR:O	1:C:987:ARG:HG3	2.18	0.44
1:C:1261:ASP:OD2	1:C:1262:GLY:N	2.51	0.44
1:C:1601:MET:HE3	1:C:1604:SER:HB3	1.99	0.44
1:C:1748:PHE:CE1	1:C:1760:HIS:HA	2.53	0.44
1:C:1980:LEU:HD13	1:C:1994:ARG:HD3	2.00	0.44
1:C:2368:LEU:N	1:C:2374:SER:O	2.34	0.44
1:C:2798:SER:HB2	1:C:2800:LYS:NZ	2.33	0.44
1:C:3397:GLU:O	1:C:3400:VAL:HG22	2.18	0.44
1:C:3451:PHE:HA	1:C:3454:GLU:OE2	2.18	0.44
1:A:37:LEU:HD12	1:A:37:LEU:HA	1.80	0.44
1:A:159:GLU:OE2	1:A:160:GLY:N	2.48	0.44
1:A:261:ARG:HB3	1:A:283:ARG:O	2.17	0.44
1:A:426:ARG:HG3	1:A:431:PRO:HA	2.00	0.44
1:A:860:GLN:O	1:A:930:LYS:HD3	2.17	0.44
1:A:1220:GLN:HA	1:D:3522:LEU:HD22	1.99	0.44
1:A:1263:THR:N	1:A:1266:THR:O	2.33	0.44
1:A:1731:LEU:HA	1:A:1772:ARG:NH1	2.33	0.44
1:A:2481:LYS:O	1:A:2482:ASP:CG	2.61	0.44
1:A:2503:VAL:HG11	1:A:2557:ALA:HB1	2.00	0.44
1:A:2522:LEU:HB3	1:A:2527:LEU:HG	2.00	0.44
1:A:3046:LEU:O	1:A:3050:VAL:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3105:LYS:HB2	1:A:3105:LYS:HE2	1.80	0.44
1:A:3132:THR:HG23	1:A:3136:LEU:HB2	2.00	0.44
1:A:3316:LEU:HD22	1:A:3346:VAL:HA	1.99	0.44
1:A:3829:PHE:CE2	1:A:3906:GLN:HG2	2.53	0.44
1:A:3892:CYS:SG	1:A:3967:GLU:HG3	2.58	0.44
1:A:4160:LEU:HD12	1:A:4160:LEU:HA	1.89	0.44
2:G:42:ARG:HB3	2:G:44:LYS:NZ	2.33	0.44
1:B:316:PHE:HB3	1:B:346:CYS:SG	2.58	0.44
1:B:681:HIS:O	1:B:784:SER:N	2.42	0.44
1:B:710:ASP:C	1:B:724:GLY:HA2	2.43	0.44
1:B:978:THR:O	1:B:982:THR:HG23	2.18	0.44
1:B:1101:ARG:HB3	1:B:1123:VAL:HB	2.00	0.44
1:B:1131:ARG:C	1:B:1132:TRP:HD1	2.25	0.44
1:B:1980:LEU:HD13	1:B:1994:ARG:HD3	2.00	0.44
1:B:1987:SER:O	1:B:1991:THR:OG1	2.20	0.44
1:B:2023:LEU:HD22	1:B:2027:ILE:HD13	2.00	0.44
1:B:2675:THR:HG22	1:B:2710:LEU:HD21	2.00	0.44
1:B:3628:ARG:HD3	1:B:3632:VAL:HG13	2.00	0.44
1:B:4995:LEU:HD22	1:B:5003:HIS:CE1	2.52	0.44
1:D:664:PHE:CE2	1:D:779:PRO:HB3	2.53	0.44
1:D:738:LEU:HD12	1:D:738:LEU:H	1.83	0.44
1:D:860:GLN:O	1:D:930:LYS:HD3	2.17	0.44
1:D:1516:ILE:HA	1:D:1531:ALA:HA	2.00	0.44
1:D:2237:CYS:HA	1:D:2240:CYS:SG	2.57	0.44
1:D:3134:VAL:O	1:D:3138:PRO:HG2	2.18	0.44
1:D:3540:TYR:CZ	1:D:3549:VAL:HG21	2.53	0.44
1:D:4864:ASN:O	1:D:4865:LYS:HD3	2.18	0.44
1:D:4961:CYS:SG	1:D:4983:HIS:CE1	3.11	0.44
1:C:426:ARG:HG3	1:C:431:PRO:HA	2.00	0.44
1:C:710:ASP:C	1:C:724:GLY:HA2	2.43	0.44
1:C:1263:THR:N	1:C:1266:THR:O	2.33	0.44
1:C:1716:ILE:HG23	1:C:1847:THR:HG21	1.98	0.44
1:C:2170:MET:SD	1:C:2171:GLY:N	2.90	0.44
1:C:2579:VAL:HA	1:C:2582:MET:SD	2.58	0.44
1:C:2600:ARG:HA	1:C:2603:ILE:HD12	2.00	0.44
1:C:2757:LYS:HD3	1:C:2761:TYR:CD2	2.53	0.44
1:C:3015:LEU:HB3	1:C:3026:GLY:HA2	1.99	0.44
1:C:3051:ARG:O	1:C:3053:ARG:NH2	2.45	0.44
1:C:3172:ILE:HD13	1:C:3194:LEU:CD2	2.47	0.44
1:C:3885:PHE:CE1	1:C:3919:THR:HG23	2.53	0.44
1:C:4563:ARG:HA	1:C:4563:ARG:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4627:MET:H	1:C:4627:MET:CE	2.26	0.44
1:C:4837:LEU:HG	1:C:4935:LEU:HD22	1.99	0.44
1:A:229:GLU:CD	1:A:247:TYR:HB3	2.42	0.43
1:A:471:LEU:HA	1:A:474:ARG:NH1	2.33	0.43
1:A:978:THR:O	1:A:982:THR:HG23	2.18	0.43
1:A:1280:GLN:OE1	1:A:1281:ASN:N	2.38	0.43
1:A:1577:ALA:HB1	1:A:1584:ARG:HA	2.00	0.43
1:A:1640:HIS:HD1	1:A:1646:ARG:C	2.26	0.43
1:A:1748:PHE:HE1	1:A:1760:HIS:HA	1.83	0.43
1:A:3825:GLU:OE2	1:A:3827:GLY:N	2.48	0.43
1:A:3844:LEU:HD23	1:A:3844:LEU:HA	1.84	0.43
1:A:4664:LEU:HD23	1:A:4665:LYS:HZ1	1.83	0.43
1:A:4732:PHE:CE1	1:A:4736:ARG:HD2	2.53	0.43
1:A:4960:ILE:HG21	1:A:4988:TYR:HE2	1.83	0.43
1:B:375:LYS:HD2	1:B:376:ALA:H	1.82	0.43
1:B:467:LYS:NZ	1:B:467:LYS:O	2.44	0.43
1:B:884:LEU:HA	1:B:887:ILE:HG22	2.00	0.43
1:B:1242:LEU:HD21	1:B:1458:HIS:CD2	2.53	0.43
1:B:1671:ARG:O	1:B:1671:ARG:NE	2.51	0.43
1:B:2313:LEU:HD12	1:B:2316:LYS:HE2	2.00	0.43
1:B:2534:ALA:HB2	1:B:2585:THR:HG23	2.00	0.43
1:B:2574:HIS:H	1:B:2574:HIS:CD2	2.35	0.43
1:B:3051:ARG:HA	1:B:3131:TYR:OH	2.17	0.43
1:B:3892:CYS:SG	1:B:3967:GLU:HG3	2.58	0.43
1:B:4578:LEU:HD12	1:B:4579:PHE:H	1.82	0.43
1:B:4651:THR:HG1	1:B:4803:HIS:CD2	2.36	0.43
1:B:4723:LYS:HE2	1:B:4723:LYS:HB2	1.79	0.43
1:B:4732:PHE:CE1	1:B:4736:ARG:HD2	2.53	0.43
1:D:229:GLU:CD	1:D:247:TYR:HB3	2.42	0.43
1:D:267:ILE:O	1:D:270:SER:OG	2.24	0.43
1:D:753:PRO:HB2	1:D:771:PHE:CZ	2.53	0.43
1:D:1106:ARG:CZ	1:D:1109:LEU:HA	2.48	0.43
1:D:1213:PHE:HD1	1:D:1216:ILE:HD12	1.82	0.43
1:D:1496:TRP:CE2	1:D:1498:GLY:HA3	2.52	0.43
1:D:2287:ALA:O	1:D:2290:LEU:HB2	2.17	0.43
1:D:2360:LYS:O	1:D:2363:CYS:HB2	2.18	0.43
1:D:2675:THR:HG22	1:D:2710:LEU:HD21	2.00	0.43
1:D:3397:GLU:O	1:D:3400:VAL:HG22	2.18	0.43
1:D:3666:ASP:OD2	1:D:3667:HIS:N	2.51	0.43
1:D:4069:LYS:HD2	1:D:4069:LYS:HA	1.78	0.43
1:D:4229:GLU:H	1:D:4229:GLU:CD	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4239:GLU:O	1:D:4240:ASP:C	2.61	0.43
1:C:111:HIS:HD2	1:C:114:SER:HB3	1.83	0.43
1:C:421:PHE:HE2	1:C:436:LEU:HD21	1.82	0.43
1:C:551:LEU:HB3	1:C:589:LEU:HD11	2.00	0.43
1:C:1447:CYS:HB3	1:C:1555:LEU:HB3	1.99	0.43
1:C:1807:LEU:HD23	1:C:1848:LEU:HD21	2.00	0.43
1:C:2503:VAL:HG11	1:C:2557:ALA:HB1	2.00	0.43
1:C:2751:LEU:O	1:C:2755:ILE:HG13	2.17	0.43
1:C:3105:LYS:HB2	1:C:3105:LYS:HE2	1.80	0.43
1:C:3270:ILE:O	1:C:3275:PRO:HD3	2.18	0.43
1:C:3562:LYS:HD3	1:C:3562:LYS:HA	1.60	0.43
1:C:3621:HIS:CE1	1:C:3623:LEU:HD23	2.52	0.43
1:C:4160:LEU:HD12	1:C:4160:LEU:HA	1.89	0.43
1:C:4732:PHE:CE1	1:C:4736:ARG:HD2	2.53	0.43
1:A:179:TYR:HB3	1:A:197:GLN:HA	2.00	0.43
1:A:183:SER:OG	1:A:186:SER:OG	2.32	0.43
1:A:259:LEU:HD21	1:A:393:CYS:SG	2.58	0.43
1:A:392:ARG:HD2	1:A:393:CYS:N	2.33	0.43
1:A:459:LEU:HB2	1:A:464:LYS:HG3	1.99	0.43
1:A:551:LEU:HB3	1:A:589:LEU:HD11	1.99	0.43
1:A:925:SER:O	1:A:928:THR:OG1	2.30	0.43
1:A:1590:GLN:OE1	1:A:1590:GLN:N	2.51	0.43
1:A:2005:GLN:O	1:A:2009:LEU:HG	2.17	0.43
1:A:2381:GLU:HB2	1:A:2385:ARG:HH21	1.83	0.43
1:A:2643:LEU:HA	1:A:2646:ASN:ND2	2.33	0.43
1:A:3398:PHE:HD1	1:A:3401:LEU:HD11	1.84	0.43
1:A:3451:PHE:HA	1:A:3454:GLU:OE2	2.18	0.43
1:A:3522:LEU:HB3	1:B:1220:GLN:CG	2.48	0.43
1:A:3750:GLU:CD	1:A:3750:GLU:H	2.25	0.43
1:A:4067:LYS:HB2	1:A:4067:LYS:HE3	1.75	0.43
2:E:22:CYS:HB2	2:E:48:PHE:CZ	2.53	0.43
2:H:63:VAL:O	2:H:66:MET:HB3	2.18	0.43
2:G:93:PRO:O	2:G:94:HIS:ND1	2.51	0.43
2:F:22:CYS:HB2	2:F:48:PHE:CE1	2.54	0.43
2:F:25:HIS:HB2	2:F:104:LEU:HD21	2.00	0.43
1:B:647:ASN:C	1:B:648:ILE:HD12	2.43	0.43
1:B:663:TYR:CE1	1:B:745:SER:HB2	2.44	0.43
1:B:664:PHE:CE2	1:B:779:PRO:HB3	2.53	0.43
1:B:1106:ARG:HH21	1:B:1120:LEU:HD13	1.83	0.43
1:B:1590:GLN:OE1	1:B:1590:GLN:N	2.51	0.43
1:B:1731:LEU:HA	1:B:1772:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2751:LEU:O	1:B:2755:ILE:HG13	2.17	0.43
1:B:3033:ASN:O	1:B:3037:GLU:HG2	2.18	0.43
1:B:3160:ASP:HA	1:B:3163:VAL:HG12	2.00	0.43
1:B:3196:ARG:NH1	1:B:3196:ARG:HA	2.33	0.43
1:B:3368:ARG:O	1:B:3372:VAL:HG22	2.18	0.43
1:B:3527:PRO:HA	1:B:3530:GLN:CG	2.48	0.43
1:B:3812:VAL:HG13	1:B:3816:MET:HE3	2.01	0.43
1:B:4069:LYS:HD2	1:B:4069:LYS:HA	1.78	0.43
1:B:4159:ARG:HA	1:B:4162:ASN:ND2	2.32	0.43
1:B:4664:LEU:HD23	1:B:4665:LYS:HZ1	1.82	0.43
1:D:157:ARG:HA	1:D:157:ARG:HD3	1.67	0.43
1:D:230:CYS:SG	1:D:258:SER:HB2	2.57	0.43
1:D:247:TYR:O	1:D:373:LYS:HA	2.18	0.43
1:D:663:TYR:CD2	1:D:804:PRO:HB3	2.53	0.43
1:D:663:TYR:CE1	1:D:745:SER:HB2	2.44	0.43
1:D:1074:ILE:HG12	1:D:1605:TRP:HH2	1.83	0.43
1:D:1274:HIS:CD2	1:D:1277:TRP:HB2	2.54	0.43
1:D:1640:HIS:HD1	1:D:1646:ARG:C	2.26	0.43
1:D:1731:LEU:HA	1:D:1772:ARG:NH1	2.33	0.43
1:D:1827:ARG:O	1:D:1829:PRO:HD3	2.18	0.43
1:D:2902:HIS:HB3	1:D:2905:LEU:HB2	1.99	0.43
1:D:2980:VAL:HG11	1:D:2986:VAL:HG12	1.99	0.43
1:D:3053:ARG:HD3	1:D:3056:LEU:HD13	1.99	0.43
1:D:3080:VAL:O	1:D:3089:LYS:NZ	2.51	0.43
1:D:3398:PHE:HD1	1:D:3401:LEU:HD11	1.84	0.43
1:D:3445:TRP:HA	1:D:3451:PHE:CD2	2.53	0.43
1:D:3589:PRO:O	1:D:3592:ILE:HG22	2.19	0.43
1:D:3892:CYS:SG	1:D:3967:GLU:HG3	2.58	0.43
1:D:4561:THR:O	1:D:4565:LEU:HG	2.18	0.43
1:C:157:ARG:HD3	1:C:157:ARG:HA	1.67	0.43
1:C:1180:ARG:HB3	1:C:1181:GLU:CD	2.43	0.43
1:C:1206:GLN:HA	1:C:1227:ALA:O	2.18	0.43
1:C:1671:ARG:NE	1:C:1671:ARG:O	2.51	0.43
1:C:1748:PHE:HE1	1:C:1760:HIS:HA	1.83	0.43
1:C:2023:LEU:HD22	1:C:2027:ILE:HD13	2.00	0.43
1:C:2381:GLU:HB2	1:C:2385:ARG:HH21	1.83	0.43
1:C:3812:VAL:HG13	1:C:3816:MET:HE3	2.00	0.43
1:C:4124:ASN:ND2	1:C:4126:GLU:OE2	2.51	0.43
1:C:4572:ALA:O	1:C:4576:ILE:HG13	2.19	0.43
1:C:4651:THR:HG1	1:C:4803:HIS:CD2	2.36	0.43
1:C:4961:CYS:SG	1:C:4983:HIS:CE1	3.11	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:TYR:O	1:A:373:LYS:HA	2.18	0.43
1:A:545:ASP:OD1	1:A:545:ASP:N	2.50	0.43
1:A:818:ARG:NE	1:A:1029:GLU:OE1	2.51	0.43
1:A:1141:ARG:NH1	1:D:3478:MET:HE3	2.19	0.43
1:A:1220:GLN:OE1	1:D:3522:LEU:CD2	2.66	0.43
1:A:1242:LEU:HD21	1:A:1458:HIS:CD2	2.53	0.43
1:A:1601:MET:HE3	1:A:1604:SER:HB3	1.99	0.43
1:A:1710:GLY:O	1:A:1714:LEU:HG	2.18	0.43
1:A:1748:PHE:CE1	1:A:1760:HIS:HA	2.53	0.43
1:A:2538:THR:O	1:A:2542:SER:N	2.40	0.43
1:A:3048:ALA:O	1:A:3051:ARG:HB3	2.18	0.43
1:A:3053:ARG:HD3	1:A:3056:LEU:HD13	1.99	0.43
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.17	0.43
1:A:3068:LEU:HD13	1:A:3139:VAL:HG11	2.00	0.43
1:A:3281:LEU:HB3	1:A:3282:PRO:HD3	2.00	0.43
1:A:3655:GLU:O	1:A:3658:LYS:HG2	2.17	0.43
1:A:4159:ARG:HA	1:A:4162:ASN:ND2	2.32	0.43
1:A:4864:ASN:O	1:A:4865:LYS:HD3	2.18	0.43
2:G:40:ARG:HD3	1:C:674:PHE:CE2	2.52	0.43
1:B:394:GLN:NE2	1:B:396:GLU:HG3	2.34	0.43
1:B:589:LEU:HA	1:B:592:LYS:HD3	2.00	0.43
1:B:1261:ASP:OD2	1:B:1262:GLY:N	2.51	0.43
1:B:2288:LEU:HB3	1:B:3849:ARG:HG3	1.99	0.43
1:B:2757:LYS:HD3	1:B:2761:TYR:CD2	2.53	0.43
1:B:3015:LEU:HB3	1:B:3026:GLY:HA2	1.99	0.43
1:B:3173:TYR:CG	1:B:3243:ILE:HG13	2.53	0.43
1:B:3352:GLU:OE2	1:B:3352:GLU:N	2.34	0.43
1:B:3522:LEU:HA	1:B:3525:CYS:SG	2.58	0.43
1:B:3885:PHE:CE1	1:B:3919:THR:HG23	2.53	0.43
1:B:3999:MET:N	1:B:3999:MET:SD	2.90	0.43
1:B:4546:VAL:HA	1:B:4549:VAL:HG22	2.01	0.43
1:B:4960:ILE:HG21	1:B:4988:TYR:HE2	1.83	0.43
1:D:261:ARG:HB3	1:D:283:ARG:O	2.17	0.43
1:D:283:ARG:HH11	1:D:288:GLY:HA2	1.83	0.43
1:D:342:GLY:HA2	1:D:390:LEU:O	2.17	0.43
1:D:375:LYS:HD2	1:D:376:ALA:H	1.82	0.43
1:D:484:LEU:HD23	1:D:539:LEU:HD12	1.99	0.43
1:D:580:GLU:OE1	1:D:624:ASN:ND2	2.52	0.43
1:D:772:ASN:HB2	1:D:1470:ARG:HH11	1.83	0.43
1:D:1206:GLN:HA	1:D:1227:ALA:O	2.18	0.43
1:D:1726:SER:O	1:D:1730:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3185:LYS:HE3	1:D:3185:LYS:HB3	1.85	0.43
1:D:3923:LEU:O	1:D:3927:GLN:HG3	2.17	0.43
1:D:4664:LEU:HD23	1:D:4665:LYS:HZ1	1.83	0.43
1:D:4677:LEU:HA	1:D:4680:LYS:HE2	2.00	0.43
1:C:392:ARG:HD2	1:C:393:CYS:N	2.33	0.43
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.52	0.43
1:C:667:MET:HE1	1:C:741:GLU:HA	2.01	0.43
1:C:1213:PHE:HD1	1:C:1216:ILE:HD12	1.82	0.43
1:C:1230:MET:HG3	1:C:1234:VAL:HG23	1.99	0.43
1:C:1237:TRP:CE2	1:C:1607:ARG:HB2	2.52	0.43
1:C:1640:HIS:HD1	1:C:1646:ARG:C	2.26	0.43
1:C:2481:LYS:O	1:C:2482:ASP:CG	2.61	0.43
1:C:2643:LEU:HA	1:C:2646:ASN:ND2	2.33	0.43
1:C:2766:TRP:O	1:C:2770:LYS:HG3	2.19	0.43
1:C:3281:LEU:HB3	1:C:3282:PRO:HD3	2.00	0.43
1:C:4085:ARG:HB2	1:C:4087:LEU:HD23	1.99	0.43
1:C:4677:LEU:HA	1:C:4680:LYS:HE2	2.00	0.43
1:A:365:LYS:NZ	1:A:365:LYS:O	2.32	0.43
1:A:580:GLU:OE1	1:A:624:ASN:ND2	2.52	0.43
1:A:652:ARG:HB2	1:A:750:LEU:HD13	2.00	0.43
1:A:829:TYR:O	1:A:840:VAL:N	2.45	0.43
1:A:1180:ARG:HB3	1:A:1181:GLU:CD	2.43	0.43
1:A:1807:LEU:HD23	1:A:1848:LEU:HD21	2.00	0.43
1:A:2176:ASN:O	1:A:2180:GLN:HG3	2.19	0.43
1:A:2927:LEU:HA	1:A:2927:LEU:HD13	1.72	0.43
1:A:3192:GLU:O	1:A:3196:ARG:HG2	2.19	0.43
1:A:3270:ILE:O	1:A:3275:PRO:HD3	2.18	0.43
1:A:3522:LEU:HA	1:A:3525:CYS:SG	2.58	0.43
1:A:3589:PRO:O	1:A:3592:ILE:HG22	2.19	0.43
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.52	0.43
1:A:3885:PHE:CE1	1:A:3919:THR:HG23	2.53	0.43
1:A:4147:LEU:HA	1:A:4147:LEU:HD23	1.80	0.43
1:A:4185:GLY:HA3	1:A:4189:ARG:O	2.18	0.43
1:A:4546:VAL:HA	1:A:4549:VAL:HG22	2.01	0.43
1:A:5017:ARG:HH11	1:A:5017:ARG:HG3	1.83	0.43
2:H:5:GLU:HB3	2:H:73:LYS:HD2	2.00	0.43
2:F:79:ASP:OD1	2:F:79:ASP:C	2.61	0.43
2:F:84:ALA:O	2:F:93:PRO:HB3	2.19	0.43
1:B:259:LEU:HD21	1:B:393:CYS:SG	2.58	0.43
1:B:283:ARG:HH11	1:B:288:GLY:HA2	1.83	0.43
1:B:772:ASN:HB2	1:B:1470:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:860:GLN:O	1:B:930:LYS:HD3	2.17	0.43
1:B:1274:HIS:CD2	1:B:1277:TRP:HB2	2.54	0.43
1:B:1447:CYS:HB3	1:B:1555:LEU:HB3	1.99	0.43
1:B:1752:ARG:CZ	1:B:1752:ARG:H	2.32	0.43
1:B:1950:GLU:O	1:B:1954:ARG:HG3	2.18	0.43
1:B:2155:LEU:HD12	1:B:2155:LEU:HA	1.75	0.43
1:B:2237:CYS:HA	1:B:2240:CYS:SG	2.57	0.43
1:B:2447:LYS:NZ	1:B:2449:GLU:H	2.17	0.43
1:B:2579:VAL:HA	1:B:2582:MET:SD	2.58	0.43
1:B:3134:VAL:O	1:B:3138:PRO:HG2	2.18	0.43
1:B:3316:LEU:HD22	1:B:3346:VAL:HA	1.99	0.43
1:B:3336:LYS:O	1:B:3340:VAL:HG13	2.19	0.43
1:B:3398:PHE:HD1	1:B:3401:LEU:HD11	1.83	0.43
1:B:4561:THR:O	1:B:4565:LEU:HG	2.18	0.43
1:B:5017:ARG:HH11	1:B:5017:ARG:HG3	1.83	0.43
1:D:54:ASN:HB3	1:D:57:ASN:HB2	1.99	0.43
1:D:597:HIS:HD2	1:D:1665:HIS:CE1	2.37	0.43
1:D:710:ASP:C	1:D:724:GLY:HA2	2.43	0.43
1:D:818:ARG:NE	1:D:1029:GLU:OE1	2.51	0.43
1:D:1141:ARG:HB2	1:C:3478:MET:O	2.18	0.43
1:D:1229:ASN:H	1:D:1827:ARG:CZ	2.32	0.43
1:D:1613:LEU:HA	1:D:1613:LEU:HD23	1.81	0.43
1:D:2336:ARG:HG3	1:D:2435:ARG:HE	1.83	0.43
1:D:2902:HIS:CD2	1:D:2905:LEU:HG	2.52	0.43
1:D:2919:ASP:OD1	1:D:2922:LYS:NZ	2.50	0.43
1:D:3174:SER:O	1:D:3177:THR:OG1	2.24	0.43
1:D:3196:ARG:NH1	1:D:3196:ARG:HA	2.33	0.43
1:D:3446:SER:HA	1:D:3452:LYS:HD3	2.00	0.43
1:D:3453:ARG:O	1:D:3456:GLN:HG2	2.19	0.43
1:D:4680:LYS:O	1:D:4685:GLY:N	2.31	0.43
1:C:134:ASP:OD2	1:C:134:ASP:N	2.42	0.43
1:C:179:TYR:HB3	1:C:197:GLN:HA	2.00	0.43
1:C:278:GLN:HA	1:C:328:LYS:HZ3	1.83	0.43
1:C:575:LEU:HD11	1:C:606:LEU:HD12	1.99	0.43
1:C:719:LEU:HA	1:C:735:GLN:HE21	1.84	0.43
1:C:753:PRO:HB2	1:C:771:PHE:CZ	2.53	0.43
1:C:1105:ALA:O	1:C:1189:LEU:N	2.35	0.43
1:C:2447:LYS:NZ	1:C:2449:GLU:H	2.17	0.43
1:C:2779:GLU:OE1	1:C:2779:GLU:N	2.51	0.43
1:C:2997:PHE:O	1:C:3001:ILE:HB	2.17	0.43
1:C:3445:TRP:HA	1:C:3451:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3446:SER:HA	1:C:3452:LYS:HD3	2.00	0.43
1:C:3829:PHE:CE2	1:C:3906:GLN:HG2	2.53	0.43
1:C:4097:MET:HG2	1:C:4097:MET:H	1.63	0.43
1:C:4239:GLU:O	1:C:4240:ASP:C	2.61	0.43
1:A:49:LEU:HD23	1:A:49:LEU:HA	1.84	0.43
1:A:283:ARG:HH11	1:A:288:GLY:HA2	1.83	0.43
1:A:342:GLY:HA2	1:A:390:LEU:O	2.17	0.43
1:A:613:ALA:HB3	1:A:1676:LEU:HD13	2.00	0.43
1:A:647:ASN:C	1:A:648:ILE:HD12	2.43	0.43
1:A:753:PRO:HB2	1:A:771:PHE:CZ	2.53	0.43
1:A:983:THR:O	1:A:987:ARG:HG3	2.18	0.43
1:A:1827:ARG:O	1:A:1829:PRO:HD3	2.19	0.43
1:A:1950:GLU:O	1:A:1954:ARG:HG3	2.18	0.43
1:A:1984:PHE:HB2	1:A:1991:THR:HG21	2.01	0.43
1:A:2360:LYS:O	1:A:2363:CYS:HB2	2.18	0.43
1:A:2574:HIS:CD2	1:A:2574:HIS:H	2.35	0.43
1:A:4877:ASP:HA	1:D:4582:VAL:HG22	2.00	0.43
2:E:97:LEU:HG	2:E:99:PHE:CE1	2.53	0.43
2:G:54:GLU:O	1:C:1784:ALA:HA	2.19	0.43
1:B:486:LEU:HD12	1:B:487:VAL:N	2.34	0.43
1:B:875:ALA:C	1:B:879:HIS:HD1	2.17	0.43
1:B:917:GLU:HA	1:B:920:TYR:CE2	2.54	0.43
1:B:1116:GLY:HA3	1:B:1132:TRP:HB3	2.01	0.43
1:B:1491:ASN:OD1	1:B:1491:ASN:N	2.52	0.43
1:B:1810:LYS:HE3	1:B:1810:LYS:HB2	1.69	0.43
1:B:2642:LYS:O	1:B:2645:THR:OG1	2.30	0.43
1:B:2980:VAL:HG11	1:B:2986:VAL:HG12	1.99	0.43
1:B:3525:CYS:SG	1:B:3599:VAL:HG11	2.58	0.43
1:B:3768:SER:HA	1:B:3771:HIS:CE1	2.54	0.43
1:B:4837:LEU:HG	1:B:4935:LEU:HD22	1.99	0.43
1:D:49:LEU:HD23	1:D:49:LEU:HA	1.84	0.43
1:D:234:SER:HG	1:D:238:SER:HG	1.65	0.43
1:D:545:ASP:OD1	1:D:545:ASP:N	2.50	0.43
1:D:583:ILE:HG13	1:D:583:ILE:H	1.66	0.43
1:D:613:ALA:HB3	1:D:1676:LEU:HD13	2.00	0.43
1:D:1106:ARG:HH21	1:D:1120:LEU:HD13	1.83	0.43
1:D:1180:ARG:HB3	1:D:1181:GLU:CD	2.43	0.43
1:D:1274:HIS:HB3	1:D:1277:TRP:HB2	2.01	0.43
1:D:1491:ASN:OD1	1:D:1491:ASN:N	2.52	0.43
1:D:1965:TYR:O	1:D:1969:LEU:HG	2.19	0.43
1:D:2175:GLU:CB	1:D:2228:MET:HE1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2703:LEU:HA	1:D:2706:ILE:HG12	2.01	0.43
1:D:2757:LYS:HD3	1:D:2761:TYR:CD2	2.53	0.43
1:D:3173:TYR:CG	1:D:3243:ILE:HG13	2.53	0.43
1:D:3591:LYS:HD2	1:D:3591:LYS:C	2.44	0.43
1:C:375:LYS:HD2	1:C:376:ALA:H	1.82	0.43
1:C:818:ARG:NE	1:C:1029:GLU:OE1	2.51	0.43
1:C:1731:LEU:HA	1:C:1772:ARG:NH1	2.33	0.43
1:C:1827:ARG:O	1:C:1829:PRO:HD3	2.19	0.43
1:C:2028:ARG:HA	1:C:2031:LEU:HG	2.01	0.43
1:C:2703:LEU:HA	1:C:2706:ILE:HG12	2.01	0.43
1:C:2902:HIS:CD2	1:C:2905:LEU:HG	2.52	0.43
1:C:3336:LYS:O	1:C:3340:VAL:HG13	2.18	0.43
1:C:3368:ARG:O	1:C:3372:VAL:HG22	2.18	0.43
1:C:3525:CYS:SG	1:C:3599:VAL:HG11	2.58	0.43
1:C:3554:GLN:HA	1:C:3557:LEU:HG	2.00	0.43
1:C:3823:LYS:C	1:C:3824:LYS:HG2	2.44	0.43
1:C:3969:ILE:CD1	1:C:3977:GLN:HG2	2.49	0.43
1:C:4087:LEU:HB3	1:C:4122:MET:HB3	2.01	0.43
1:C:4185:GLY:HA3	1:C:4189:ARG:O	2.18	0.43
1:C:4232:GLU:HB2	1:C:5019:TRP:HE1	1.83	0.43
1:A:115:ARG:NE	1:A:399:GLN:HE21	2.17	0.43
1:A:308:HIS:CD2	1:A:310:LYS:HB3	2.54	0.43
1:A:486:LEU:HD12	1:A:487:VAL:N	2.34	0.43
1:A:663:TYR:CD2	1:A:804:PRO:HB3	2.53	0.43
1:A:1101:ARG:HB3	1:A:1123:VAL:HB	2.00	0.43
1:A:1290:ARG:HB3	1:A:1598:GLN:HB2	2.00	0.43
1:A:2199:ARG:HA	1:A:2204:HIS:CE1	2.54	0.43
1:A:2244:ARG:HG2	1:A:2248:ARG:HH12	1.84	0.43
1:A:3051:ARG:HA	1:A:3131:TYR:OH	2.17	0.43
1:A:3159:ASP:HA	1:A:3218:VAL:HG12	2.00	0.43
1:A:4006:ASP:OD2	1:A:4008:SER:OG	2.37	0.43
1:A:4214:LYS:HB3	1:A:4214:LYS:HE3	1.73	0.43
2:H:8:SER:O	2:H:70:GLN:HG3	2.19	0.43
2:G:46:PHE:CZ	2:G:48:PHE:HB3	2.54	0.43
2:G:48:PHE:CZ	2:G:63:VAL:HG11	2.50	0.43
2:G:59:TRP:CE3	1:C:1783:VAL:CG1	3.01	0.43
2:F:7:ILE:HG13	1:B:719:LEU:HD21	2.00	0.43
1:B:109:LEU:H	1:B:117:TYR:HE1	1.66	0.43
1:B:575:LEU:HD12	1:B:575:LEU:HA	1.76	0.43
1:B:1808:ARG:HG3	1:B:1854:PHE:CE1	2.54	0.43
1:B:2036:GLN:NE2	1:B:2045:GLN:OE1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2097:LEU:HD12	1:B:2098:VAL:N	2.34	0.43
1:B:2522:LEU:HB3	1:B:2527:LEU:HG	2.00	0.43
1:B:3529:ASP:O	1:B:3532:LEU:N	2.52	0.43
1:B:3591:LYS:HD2	1:B:3591:LYS:C	2.44	0.43
1:B:4243:PHE:O	1:B:4247:ILE:HG12	2.18	0.43
1:B:4677:LEU:HA	1:B:4680:LYS:HE2	2.01	0.43
1:D:134:ASP:OD2	1:D:134:ASP:N	2.42	0.43
1:D:202:MET:C	1:D:202:MET:HE3	2.44	0.43
1:D:290:TYR:O	1:D:302:VAL:N	2.32	0.43
1:D:553:ARG:HG2	1:D:555:GLU:OE1	2.19	0.43
1:D:667:MET:HE1	1:D:741:GLU:HA	2.01	0.43
1:D:983:THR:O	1:D:987:ARG:HG3	2.18	0.43
1:D:1748:PHE:HE1	1:D:1760:HIS:HA	1.83	0.43
1:D:1807:LEU:HD23	1:D:1848:LEU:HD21	2.00	0.43
1:D:2028:ARG:HA	1:D:2031:LEU:HG	2.01	0.43
1:D:2288:LEU:HB3	1:D:3849:ARG:HG3	1.99	0.43
1:D:3529:ASP:O	1:D:3532:LEU:N	2.52	0.43
1:D:3842:LEU:HB3	1:D:3933:PHE:CE1	2.54	0.43
1:D:4006:ASP:OD2	1:D:4008:SER:OG	2.37	0.43
1:D:4232:GLU:HB2	1:D:5019:TRP:HE1	1.83	0.43
1:C:109:LEU:H	1:C:117:TYR:HE1	1.66	0.43
1:C:394:GLN:NE2	1:C:396:GLU:HG3	2.34	0.43
1:C:664:PHE:CE2	1:C:779:PRO:HB3	2.53	0.43
1:C:1106:ARG:CZ	1:C:1109:LEU:HA	2.48	0.43
1:C:1265:ASP:OD2	1:C:1265:ASP:N	2.48	0.43
1:C:1516:ILE:HA	1:C:1531:ALA:HA	2.00	0.43
1:C:1581:LEU:HA	1:C:1584:ARG:HB2	2.00	0.43
1:C:1590:GLN:OE1	1:C:1590:GLN:N	2.51	0.43
1:C:2036:GLN:NE2	1:C:2045:GLN:OE1	2.50	0.43
1:C:2097:LEU:HD12	1:C:2098:VAL:N	2.34	0.43
1:C:2474:LEU:HD13	1:C:2496:PRO:HG3	2.00	0.43
1:C:3173:TYR:CG	1:C:3243:ILE:HG13	2.53	0.43
1:C:3192:GLU:O	1:C:3196:ARG:HG2	2.18	0.43
1:C:3527:PRO:HA	1:C:3530:GLN:CG	2.48	0.43
1:C:3768:SER:HA	1:C:3771:HIS:CE1	2.54	0.43
1:C:3782:MET:SD	1:C:3782:MET:C	3.02	0.43
1:C:4229:GLU:H	1:C:4229:GLU:CD	2.25	0.43
1:C:4561:THR:O	1:C:4565:LEU:HG	2.18	0.43
1:A:54:ASN:HB3	1:A:57:ASN:HB2	2.00	0.43
1:A:510:GLU:OE1	1:A:510:GLU:N	2.49	0.43
1:A:667:MET:HE1	1:A:741:GLU:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1229:ASN:H	1:A:1827:ARG:CZ	2.32	0.43
1:A:1274:HIS:HB3	1:A:1277:TRP:HB2	2.01	0.43
1:A:1752:ARG:H	1:A:1752:ARG:CZ	2.32	0.43
1:A:2336:ARG:HG3	1:A:2435:ARG:HE	1.83	0.43
1:A:2347:GLU:OE2	1:A:2347:GLU:N	2.32	0.43
1:A:3546:ASP:C	1:A:3550:ARG:HH21	2.27	0.43
1:A:3628:ARG:HD3	1:A:3632:VAL:HG13	2.00	0.43
1:A:3782:MET:C	1:A:3782:MET:SD	3.02	0.43
1:A:3906:GLN:NE2	1:A:3913:ILE:O	2.44	0.43
1:A:4843:LEU:HD22	1:D:4823:LEU:HD13	2.01	0.43
2:H:90:ILE:HG12	1:D:1687:SER:HB3	2.00	0.43
1:B:247:TYR:O	1:B:373:LYS:HA	2.18	0.43
1:B:375:LYS:HD2	1:B:376:ALA:N	2.34	0.43
1:B:667:MET:HE1	1:B:741:GLU:HA	2.01	0.43
1:B:675:LEU:HD22	1:B:786:GLY:HA3	2.01	0.43
1:B:753:PRO:HB2	1:B:771:PHE:CZ	2.53	0.43
1:B:1274:HIS:HB3	1:B:1277:TRP:HB2	2.01	0.43
1:B:1511:HIS:ND1	1:B:1511:HIS:N	2.65	0.43
1:B:1726:SER:O	1:B:1730:MET:HG2	2.19	0.43
1:B:2028:ARG:HA	1:B:2031:LEU:HG	2.01	0.43
1:B:2268[A]:GLN:H	1:B:2268[A]:GLN:HG3	1.51	0.43
1:B:2919:ASP:OD1	1:B:2922:LYS:NZ	2.50	0.43
1:B:3081:MET:HA	1:B:3089:LYS:NZ	2.34	0.43
1:B:3281:LEU:HB3	1:B:3282:PRO:HD3	2.00	0.43
1:B:3440:GLU:HA	1:B:3443:ILE:HD12	2.01	0.43
1:D:115:ARG:HE	1:D:399:GLN:HE21	1.66	0.43
1:D:214:VAL:HG23	1:D:274:LEU:HB2	2.00	0.43
1:D:486:LEU:HD12	1:D:487:VAL:N	2.34	0.43
1:D:875:ALA:C	1:D:879:HIS:HD1	2.16	0.43
1:D:886:ARG:HG3	1:D:891:TRP:HE3	1.83	0.43
1:D:1590:GLN:N	1:D:1590:GLN:OE1	2.51	0.43
1:D:1752:ARG:H	1:D:1752:ARG:CZ	2.32	0.43
1:D:1980:LEU:HD13	1:D:1994:ARG:HD3	2.00	0.43
1:D:2090:LYS:HZ2	1:D:2092:GLN:HG2	1.82	0.43
1:D:2600:ARG:HA	1:D:2603:ILE:HD12	2.00	0.43
1:D:3159:ASP:HA	1:D:3218:VAL:HG12	2.00	0.43
1:D:3160:ASP:HA	1:D:3163:VAL:HG12	2.00	0.43
1:D:3892:CYS:SG	1:D:3968:TYR:HA	2.59	0.43
1:D:4087:LEU:HB3	1:D:4122:MET:HB3	2.01	0.43
1:D:4627:MET:HE3	1:D:4627:MET:N	2.27	0.43
1:D:4856:PHE:CZ	1:C:4582:VAL:HG13	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5006:GLN:O	1:D:5010:VAL:HG23	2.19	0.43
1:D:5034:ASP:OD1	1:D:5034:ASP:N	2.52	0.43
1:C:214:VAL:HG23	1:C:274:LEU:HB2	2.00	0.43
1:C:308:HIS:CD2	1:C:310:LYS:HB3	2.54	0.43
1:C:647:ASN:C	1:C:648:ILE:HD12	2.43	0.43
1:C:917:GLU:HA	1:C:920:TYR:CE2	2.54	0.43
1:C:1074:ILE:HG12	1:C:1605:TRP:HH2	1.83	0.43
1:C:2288:LEU:HB3	1:C:3849:ARG:HG3	1.99	0.43
1:C:3033:ASN:O	1:C:3037:GLU:HG2	2.18	0.43
1:C:3080:VAL:O	1:C:3089:LYS:NZ	2.51	0.43
1:C:3368:ARG:HA	1:C:3371:LYS:HE2	1.99	0.43
1:C:3398:PHE:HD1	1:C:3401:LEU:HD11	1.83	0.43
1:C:3522:LEU:HA	1:C:3525:CYS:SG	2.58	0.43
1:C:4006:ASP:OD2	1:C:4008:SER:OG	2.37	0.43
1:C:4237:PHE:O	1:C:4241:THR:OG1	2.33	0.43
1:A:613:ALA:H	1:A:1676:LEU:HD13	1.83	0.43
1:A:719:LEU:HA	1:A:735:GLN:HE21	1.84	0.43
1:A:886:ARG:HG3	1:A:891:TRP:HE3	1.83	0.43
1:A:1726:SER:O	1:A:1730:MET:HG2	2.19	0.43
1:A:1773:PRO:HA	1:A:1774:PRO:HD3	1.93	0.43
1:A:2028:ARG:HA	1:A:2031:LEU:HG	2.01	0.43
1:A:2244:ARG:HE	1:A:2248:ARG:HH22	1.67	0.43
1:A:2265:LEU:HB2	1:A:2330:ARG:HD3	2.01	0.43
1:A:2703:LEU:HA	1:A:2706:ILE:HG12	2.01	0.43
1:A:3033:ASN:O	1:A:3037:GLU:HG2	2.18	0.43
1:A:3196:ARG:HA	1:A:3196:ARG:NH1	2.33	0.43
1:A:3635:CYS:HA	1:A:3638:MET:HB2	2.01	0.43
1:A:3892:CYS:SG	1:A:3968:TYR:HA	2.59	0.43
1:A:4561:THR:O	1:A:4565:LEU:HG	2.18	0.43
1:A:4578:LEU:HD12	1:A:4579:PHE:H	1.83	0.43
2:H:100:ASP:OD1	2:H:100:ASP:N	2.52	0.43
1:B:49:LEU:HD23	1:B:49:LEU:HA	1.84	0.43
1:B:392:ARG:HD2	1:B:393:CYS:N	2.33	0.43
1:B:758:ARG:NH1	1:B:761:GLY:H	2.08	0.43
1:B:1710:GLY:O	1:B:1714:LEU:HG	2.18	0.43
1:B:2643:LEU:HA	1:B:2646:ASN:ND2	2.33	0.43
1:B:3478:MET:N	1:B:3478:MET:SD	2.92	0.43
1:B:3782:MET:SD	1:B:3782:MET:C	3.02	0.43
1:D:111:HIS:HD2	1:D:114:SER:HB3	1.83	0.43
1:D:467:LYS:NZ	1:D:467:LYS:O	2.44	0.43
1:D:1091:GLU:HG2	1:D:1148:VAL:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1808:ARG:HG3	1:D:1854:PHE:CE1	2.54	0.43
1:D:1950:GLU:O	1:D:1954:ARG:HG3	2.18	0.43
1:D:2251:PHE:CD1	1:D:2286:LEU:HD13	2.54	0.43
1:D:2997:PHE:O	1:D:3001:ILE:HB	2.17	0.43
1:D:3546:ASP:C	1:D:3550:ARG:HH21	2.27	0.43
1:D:3944:GLU:CD	1:D:3946:GLN:H	2.22	0.43
1:C:589:LEU:HA	1:C:592:LYS:HD3	2.00	0.43
1:C:909:ASN:O	1:C:913:LEU:N	2.42	0.43
1:C:1116:GLY:HA3	1:C:1132:TRP:HB3	2.01	0.43
1:C:1552:VAL:HB	1:C:1564:PHE:HZ	1.84	0.43
1:C:1710:GLY:O	1:C:1714:LEU:HG	2.18	0.43
1:C:2244:ARG:HE	1:C:2248:ARG:HH22	1.67	0.43
1:C:2251:PHE:CD1	1:C:2286:LEU:HD13	2.54	0.43
1:C:2360:LYS:O	1:C:2363:CYS:HB2	2.18	0.43
1:C:2536:LEU:HD13	1:C:2547:ALA:HB1	2.01	0.43
1:C:2550:LEU:HA	1:C:2553:TYR:CE2	2.54	0.43
1:C:3359:ILE:HG23	1:C:3434:LEU:HD21	2.01	0.43
1:C:3371:LYS:O	1:C:3375:GLU:HG3	2.19	0.43
1:C:3635:CYS:HA	1:C:3638:MET:HB2	2.01	0.43
1:C:3762:ARG:NH1	1:C:4752:ALA:O	2.52	0.43
1:C:4569:LEU:O	1:C:4573:ILE:HD12	2.19	0.43
1:C:4960:ILE:HG21	1:C:4988:TYR:HE2	1.83	0.43
1:A:1106:ARG:HH21	1:A:1120:LEU:HD13	1.83	0.43
1:A:1106:ARG:CZ	1:A:1109:LEU:HA	2.48	0.43
1:A:1521:ASP:HB3	1:A:1524:THR:HB	2.01	0.43
1:A:2097:LEU:HD12	1:A:2098:VAL:N	2.34	0.43
1:A:2251:PHE:CD1	1:A:2286:LEU:HD13	2.54	0.43
1:A:2447:LYS:NZ	1:A:2449:GLU:H	2.17	0.43
1:A:2536:LEU:HD13	1:A:2547:ALA:HB1	2.01	0.43
1:A:2819:TRP:HE1	1:A:2881:ASN:ND2	2.17	0.43
1:A:3336:LYS:O	1:A:3340:VAL:HG13	2.19	0.43
1:A:3397:GLU:O	1:A:3400:VAL:HG22	2.18	0.43
1:A:3402:CYS:SG	1:A:3451:PHE:HE1	2.42	0.43
1:A:3591:LYS:HD2	1:A:3591:LYS:C	2.44	0.43
1:A:3995:VAL:O	1:A:3999:MET:HG2	2.19	0.43
1:A:4087:LEU:HB3	1:A:4122:MET:HB3	2.01	0.43
1:A:4998:LYS:NZ	1:A:5002:GLU:O	2.43	0.43
1:B:273:HIS:CD2	1:B:334:MET:HE2	2.54	0.43
1:B:294:THR:N	1:B:298:GLY:O	2.35	0.43
1:B:652:ARG:HB2	1:B:750:LEU:HD13	2.00	0.43
1:B:719:LEU:HA	1:B:735:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:981:GLN:O	1:B:985:VAL:HG13	2.19	0.43
1:B:1427:ILE:HD12	1:B:1427:ILE:HA	1.89	0.43
1:B:1521:ASP:HB3	1:B:1524:THR:HB	2.01	0.43
1:B:1577:ALA:HB1	1:B:1584:ARG:HA	2.00	0.43
1:B:1984:PHE:HB2	1:B:1991:THR:HG21	2.01	0.43
1:B:2360:LYS:O	1:B:2363:CYS:HB2	2.18	0.43
1:B:2474:LEU:HD13	1:B:2496:PRO:HG3	2.00	0.43
1:B:2766:TRP:O	1:B:2770:LYS:HG3	2.19	0.43
1:B:2798:SER:HB2	1:B:2800:LYS:NZ	2.33	0.43
1:B:3035:GLU:HG3	1:B:3038:MET:HE3	2.01	0.43
1:B:3159:ASP:HA	1:B:3218:VAL:HG12	2.00	0.43
1:B:3270:ILE:O	1:B:3275:PRO:HD3	2.18	0.43
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.54	0.43
1:B:3522:LEU:HB3	1:C:1220:GLN:CG	2.49	0.43
1:B:3554:GLN:HA	1:B:3557:LEU:HG	2.00	0.43
1:B:3635:CYS:HA	1:B:3638:MET:HB2	2.01	0.43
1:B:3995:VAL:O	1:B:3999:MET:HG2	2.19	0.43
1:B:4569:LEU:O	1:B:4573:ILE:HD12	2.19	0.43
1:B:4645:CYS:O	1:B:4649:LEU:HG	2.18	0.43
1:D:259:LEU:HD21	1:D:393:CYS:SG	2.58	0.43
1:D:273:HIS:CD2	1:D:334:MET:HE2	2.54	0.43
1:D:426:ARG:HG3	1:D:431:PRO:HA	2.00	0.43
1:D:652:ARG:HB2	1:D:750:LEU:HD13	2.00	0.43
1:D:719:LEU:HA	1:D:735:GLN:HE21	1.84	0.43
1:D:875:ALA:O	1:D:878:ILE:HG12	2.19	0.43
1:D:1006:SER:OG	1:D:1007:TYR:N	2.52	0.43
1:D:1261:ASP:OD2	1:D:1262:GLY:N	2.51	0.43
1:D:1447:CYS:HB3	1:D:1555:LEU:HB3	1.99	0.43
1:D:2550:LEU:HA	1:D:2553:TYR:CE2	2.54	0.43
1:D:2766:TRP:O	1:D:2770:LYS:HG3	2.19	0.43
1:D:2880:GLU:OE2	1:D:2884:ASN:ND2	2.50	0.43
1:D:3270:ILE:O	1:D:3275:PRO:HD3	2.18	0.43
1:D:3368:ARG:O	1:D:3372:VAL:HG22	2.18	0.43
1:D:3478:MET:SD	1:D:3478:MET:N	2.92	0.43
1:D:3522:LEU:HA	1:D:3525:CYS:SG	2.58	0.43
1:D:3554:GLN:HA	1:D:3557:LEU:HG	2.00	0.43
1:D:3595:ARG:HA	1:D:3598:GLU:OE1	2.19	0.43
1:D:3823:LYS:C	1:D:3824:LYS:HG2	2.44	0.43
1:D:3829:PHE:CE2	1:D:3906:GLN:HG2	2.53	0.43
1:D:4085:ARG:HH21	1:D:4122:MET:HG3	1.84	0.43
1:D:4134:GLU:HB3	1:D:4135:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4147:LEU:HD23	1:D:4147:LEU:HA	1.80	0.43
1:D:4243:PHE:O	1:D:4247:ILE:HG12	2.18	0.43
1:C:290:TYR:O	1:C:302:VAL:N	2.32	0.43
1:C:314:PHE:CE2	1:C:350:HIS:HB2	2.54	0.43
1:C:1726:SER:O	1:C:1730:MET:HG2	2.19	0.43
1:C:2176:ASN:O	1:C:2180:GLN:HG3	2.19	0.43
1:C:2313:LEU:HD12	1:C:2316:LYS:HE2	2.00	0.43
1:C:2675:THR:HG22	1:C:2710:LEU:HD21	2.00	0.43
1:C:3068:LEU:HD13	1:C:3139:VAL:HG11	2.00	0.43
1:C:3589:PRO:O	1:C:3592:ILE:HG22	2.19	0.43
1:C:3882:GLN:OE1	1:C:3957:VAL:HA	2.19	0.43
1:C:4095:LYS:HA	1:C:4098:ASP:OD2	2.19	0.43
1:C:4134:GLU:HB3	1:C:4135:PRO:HD3	2.00	0.43
1:C:4243:PHE:O	1:C:4247:ILE:HG12	2.18	0.43
1:C:4249:ALA:O	1:C:4252:SER:OG	2.29	0.43
1:C:5034:ASP:OD1	1:C:5034:ASP:N	2.52	0.43
1:A:81:MET:C	1:A:81:MET:HE2	2.44	0.43
1:A:214:VAL:HG12	1:A:341:TYR:CG	2.54	0.43
1:A:314:PHE:CE2	1:A:350:HIS:HB2	2.54	0.43
1:A:332:GLU:OE1	1:A:332:GLU:N	2.52	0.43
1:A:394:GLN:NE2	1:A:396:GLU:HG3	2.34	0.43
1:A:403:MET:HE3	1:A:403:MET:HB3	1.80	0.43
1:A:553:ARG:HG2	1:A:555:GLU:OE1	2.19	0.43
1:A:589:LEU:HA	1:A:592:LYS:HD3	2.00	0.43
1:A:688:LEU:HD23	1:A:712:TYR:HD1	1.84	0.43
1:A:791:PHE:N	1:A:1626:TRP:O	2.49	0.43
1:A:809:ALA:HB2	1:A:1017:ARG:HH12	1.84	0.43
1:A:893:TYR:H	1:A:962:SER:H	1.67	0.43
1:A:917:GLU:HA	1:A:920:TYR:CE2	2.54	0.43
1:A:1206:GLN:HA	1:A:1227:ALA:O	2.18	0.43
1:A:2895:GLU:HG2	1:A:2895:GLU:H	1.69	0.43
1:A:3667:HIS:C	1:A:3667:HIS:HD1	2.27	0.43
1:A:3762:ARG:NH1	1:A:4752:ALA:O	2.52	0.43
1:A:3768:SER:HA	1:A:3771:HIS:CE1	2.54	0.43
1:A:4085:ARG:HH21	1:A:4122:MET:HG3	1.84	0.43
1:A:4866:SER:OG	1:A:4868:ASP:O	2.33	0.43
2:G:7:ILE:CA	1:C:719:LEU:HD21	2.47	0.43
1:B:159:GLU:OE2	1:B:160:GLY:N	2.48	0.43
1:B:553:ARG:HG2	1:B:555:GLU:OE1	2.19	0.43
1:B:982:THR:HA	1:B:985:VAL:HG22	2.00	0.43
1:B:1748:PHE:HE1	1:B:1760:HIS:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2377:LEU:HB2	1:B:2465:ASP:OD2	2.19	0.43
1:B:2478:THR:O	1:B:2486:VAL:N	2.41	0.43
1:B:2819:TRP:HE1	1:B:2881:ASN:ND2	2.17	0.43
1:B:3078:ARG:HA	1:B:3081:MET:SD	2.59	0.43
1:B:3882:GLN:OE1	1:B:3957:VAL:HA	2.19	0.43
1:B:4085:ARG:HH21	1:B:4122:MET:HG3	1.84	0.43
1:B:4159:ARG:HE	1:B:4159:ARG:HB2	1.66	0.43
1:B:4204:GLN:O	1:B:4207:MET:HG2	2.19	0.43
1:D:809:ALA:HB2	1:D:1017:ARG:HH12	1.84	0.43
1:D:846:LEU:HD23	1:D:847:SER:N	2.34	0.43
1:D:893:TYR:H	1:D:962:SER:H	1.67	0.43
1:D:1005:TRP:CZ2	1:D:1013:ILE:HD13	2.54	0.43
1:D:1092:PHE:HD1	1:D:1202:LEU:HB3	1.84	0.43
1:D:1101:ARG:HB3	1:D:1123:VAL:HB	2.00	0.43
1:D:1710:GLY:O	1:D:1714:LEU:HG	2.18	0.43
1:D:2097:LEU:HD12	1:D:2098:VAL:N	2.34	0.43
1:D:2244:ARG:HE	1:D:2248:ARG:HH22	1.67	0.43
1:D:2358:ILE:HG13	1:D:2359:ARG:NH2	2.34	0.43
1:D:2447:LYS:NZ	1:D:2449:GLU:H	2.17	0.43
1:D:2481:LYS:HZ2	1:D:2486:VAL:HG22	1.84	0.43
1:D:2536:LEU:HD13	1:D:2547:ALA:HB1	2.01	0.43
1:D:3023:LYS:NZ	1:D:3024:VAL:O	2.42	0.43
1:D:3081:MET:HA	1:D:3089:LYS:NZ	2.34	0.43
1:D:3440:GLU:HA	1:D:3443:ILE:HD12	2.01	0.43
1:D:3451:PHE:HA	1:D:3454:GLU:OE2	2.18	0.43
1:D:3628:ARG:HD3	1:D:3632:VAL:HG13	2.00	0.43
1:D:3768:SER:HA	1:D:3771:HIS:CE1	2.54	0.43
1:D:4095:LYS:HA	1:D:4098:ASP:OD2	2.19	0.43
1:D:4999:ASP:OD1	1:D:5000:GLU:N	2.52	0.43
1:C:202:MET:HE3	1:C:202:MET:C	2.44	0.43
1:C:486:LEU:HD12	1:C:487:VAL:N	2.34	0.43
1:C:1577:ALA:HB1	1:C:1584:ARG:HA	2.00	0.43
1:C:1658:ASP:OD1	1:C:1659:LEU:N	2.48	0.43
1:C:3159:ASP:HA	1:C:3218:VAL:HG12	2.00	0.43
1:C:3478:MET:N	1:C:3478:MET:SD	2.92	0.43
1:A:214:VAL:HG23	1:A:274:LEU:HB2	2.00	0.42
1:A:846:LEU:HD23	1:A:847:SER:N	2.34	0.42
1:A:1516:ILE:HA	1:A:1531:ALA:HA	2.00	0.42
1:A:1965:TYR:O	1:A:1969:LEU:HG	2.19	0.42
1:A:1980:LEU:HD13	1:A:1994:ARG:HD3	2.00	0.42
1:A:2224:ARG:HB2	1:A:2225:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2358:ILE:HG13	1:A:2359:ARG:NH2	2.33	0.42
1:A:2474:LEU:HD13	1:A:2496:PRO:HG3	2.00	0.42
1:A:3160:ASP:HA	1:A:3163:VAL:HG12	2.00	0.42
1:A:3354:LEU:HB2	1:A:3415:TYR:CE2	2.54	0.42
1:A:3842:LEU:HB3	1:A:3933:PHE:CE1	2.54	0.42
1:A:3882:GLN:OE1	1:A:3957:VAL:HA	2.19	0.42
1:A:4572:ALA:O	1:A:4576:ILE:HG13	2.19	0.42
1:A:4651:THR:HG1	1:A:4803:HIS:CD2	2.37	0.42
1:B:296:ASP:OD1	1:B:296:ASP:N	2.47	0.42
1:B:613:ALA:H	1:B:1676:LEU:HD13	1.83	0.42
1:B:818:ARG:NE	1:B:1029:GLU:OE1	2.51	0.42
1:B:1106:ARG:CZ	1:B:1109:LEU:HA	2.48	0.42
1:B:1452:TRP:CD1	1:B:1452:TRP:N	2.85	0.42
1:B:2244:ARG:HE	1:B:2248:ARG:HH22	1.67	0.42
1:B:2251:PHE:CD1	1:B:2286:LEU:HD13	2.54	0.42
1:B:2703:LEU:HA	1:B:2706:ILE:HG12	2.01	0.42
1:B:3371:LYS:O	1:B:3375:GLU:HG3	2.19	0.42
1:B:3402:CYS:SG	1:B:3451:PHE:HE1	2.42	0.42
1:B:3465:ASN:C	1:B:3467:MET:H	2.27	0.42
1:B:3546:ASP:C	1:B:3550:ARG:HH21	2.27	0.42
1:B:3589:PRO:O	1:B:3592:ILE:HG22	2.19	0.42
1:B:4031:LEU:HD23	1:B:4031:LEU:HA	1.87	0.42
1:B:4087:LEU:HB3	1:B:4122:MET:HB3	2.01	0.42
1:B:4101:LYS:HB2	1:C:4730:ASP:OD1	2.19	0.42
1:B:4181:ILE:HD12	1:B:4181:ILE:HA	1.81	0.42
1:B:5006:GLN:O	1:B:5010:VAL:HG23	2.19	0.42
1:D:110:ARG:HE	1:D:115:ARG:C	2.27	0.42
1:D:314:PHE:CE2	1:D:350:HIS:HB2	2.54	0.42
1:D:613:ALA:H	1:D:1676:LEU:HD13	1.83	0.42
1:D:688:LEU:HD23	1:D:712:TYR:HD1	1.84	0.42
1:D:981:GLN:O	1:D:985:VAL:HG13	2.19	0.42
1:D:1577:ALA:HB1	1:D:1584:ARG:HA	2.00	0.42
1:D:2244:ARG:HG2	1:D:2248:ARG:HH12	1.84	0.42
1:D:2265:LEU:HB2	1:D:2330:ARG:HD3	2.01	0.42
1:D:2313:LEU:HD12	1:D:2316:LYS:HE2	2.00	0.42
1:D:2630:VAL:HG21	1:D:2678:LEU:HD13	2.01	0.42
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.52	0.42
1:D:3812:VAL:HG13	1:D:3816:MET:HE3	2.01	0.42
1:D:3885:PHE:CE1	1:D:3919:THR:HG23	2.53	0.42
1:C:110:ARG:HE	1:C:115:ARG:C	2.27	0.42
1:C:247:TYR:O	1:C:373:LYS:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:GLU:OE1	1:C:624:ASN:ND2	2.52	0.42
1:C:886:ARG:HG3	1:C:891:TRP:HE3	1.83	0.42
1:C:893:TYR:H	1:C:962:SER:H	1.67	0.42
1:C:1752:ARG:H	1:C:1752:ARG:CZ	2.32	0.42
1:C:2244:ARG:HG2	1:C:2248:ARG:HH12	1.84	0.42
1:C:2336:ARG:HG3	1:C:2435:ARG:HE	1.84	0.42
1:C:3160:ASP:HA	1:C:3163:VAL:HG12	2.00	0.42
1:C:3327:LEU:HB2	1:C:3364:ARG:NH2	2.32	0.42
1:C:3453:ARG:O	1:C:3456:GLN:HG2	2.19	0.42
1:C:4085:ARG:HH21	1:C:4122:MET:HG3	1.84	0.42
1:A:111:HIS:HD2	1:A:114:SER:HB3	1.83	0.42
1:A:202:MET:C	1:A:202:MET:HE3	2.44	0.42
1:A:273:HIS:CD2	1:A:334:MET:HE2	2.54	0.42
1:A:981:GLN:O	1:A:985:VAL:HG13	2.19	0.42
1:A:1552:VAL:HB	1:A:1564:PHE:HZ	1.84	0.42
1:A:1747:LEU:HD23	1:A:1747:LEU:HA	1.90	0.42
1:A:1808:ARG:HG3	1:A:1854:PHE:CE1	2.54	0.42
1:A:2630:VAL:HG21	1:A:2678:LEU:HD13	2.01	0.42
1:A:2779:GLU:OE1	1:A:2779:GLU:N	2.51	0.42
1:A:3529:ASP:O	1:A:3532:LEU:N	2.52	0.42
1:A:4134:GLU:HB3	1:A:4135:PRO:HD3	2.00	0.42
2:F:18:ARG:HH21	2:F:19:GLY:N	2.17	0.42
1:B:1160:ILE:HG13	1:B:1182:ILE:HD13	2.01	0.42
1:B:1206:GLN:HA	1:B:1227:ALA:O	2.18	0.42
1:B:1552:VAL:HB	1:B:1564:PHE:HZ	1.84	0.42
1:B:1965:TYR:O	1:B:1969:LEU:HG	2.19	0.42
1:B:2224:ARG:HB2	1:B:2225:PHE:CD2	2.55	0.42
1:B:3171:SER:O	1:B:3175:LEU:HG	2.20	0.42
1:B:3172:ILE:HD13	1:B:3194:LEU:CD2	2.47	0.42
1:B:3355:HIS:HA	1:B:3359:ILE:HD12	2.01	0.42
1:B:4961:CYS:SG	1:B:4983:HIS:CE1	3.11	0.42
1:D:394:GLN:NE2	1:D:396:GLU:HG3	2.34	0.42
1:D:510:GLU:OE1	1:D:510:GLU:N	2.49	0.42
1:D:978:THR:O	1:D:982:THR:HG23	2.18	0.42
1:D:999:ASP:O	1:D:1003:GLN:HG3	2.19	0.42
1:D:1828:ASP:OD1	1:D:1828:ASP:N	2.48	0.42
1:D:1987:SER:O	1:D:1991:THR:OG1	2.20	0.42
1:D:2534:ALA:HB2	1:D:2585:THR:HG23	2.00	0.42
1:D:2758:PHE:HB3	1:D:2809:ILE:HG21	2.01	0.42
1:D:3371:LYS:O	1:D:3375:GLU:HG3	2.19	0.42
1:D:3635:CYS:HA	1:D:3638:MET:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3882:GLN:OE1	1:D:3957:VAL:HA	2.19	0.42
1:D:4185:GLY:HA3	1:D:4189:ARG:O	2.18	0.42
1:D:4546:VAL:HA	1:D:4549:VAL:HG22	2.01	0.42
1:C:375:LYS:HD2	1:C:376:ALA:N	2.34	0.42
1:C:663:TYR:HD2	1:C:804:PRO:HB3	1.84	0.42
1:C:675:LEU:HD22	1:C:786:GLY:HA3	2.01	0.42
1:C:954:LYS:HA	1:C:954:LYS:HD2	1.75	0.42
1:C:1005:TRP:CZ2	1:C:1013:ILE:HD13	2.54	0.42
1:C:1290:ARG:HB3	1:C:1598:GLN:HB2	2.00	0.42
1:C:1965:TYR:O	1:C:1969:LEU:HG	2.19	0.42
1:C:3078:ARG:HA	1:C:3081:MET:SD	2.59	0.42
1:C:3825:GLU:OE2	1:C:3827:GLY:N	2.48	0.42
1:C:3892:CYS:SG	1:C:3967:GLU:HG3	2.58	0.42
1:C:4060:LYS:HA	1:C:4060:LYS:HD2	1.83	0.42
1:A:598:LYS:HD2	1:A:598:LYS:HA	1.84	0.42
1:A:675:LEU:HD22	1:A:786:GLY:HA3	2.01	0.42
1:A:1006:SER:OG	1:A:1007:TYR:N	2.52	0.42
1:A:1771:LEU:O	1:A:1772:ARG:HD3	2.19	0.42
1:A:2116:LEU:O	1:A:2120:MET:HG2	2.19	0.42
1:A:2377:LEU:HD13	1:A:2469:ILE:HG13	2.01	0.42
1:A:3035:GLU:HG3	1:A:3038:MET:HE3	2.01	0.42
1:A:3355:HIS:HA	1:A:3359:ILE:HD12	2.01	0.42
1:A:3446:SER:HA	1:A:3452:LYS:HD3	2.00	0.42
1:A:3622:LYS:HE2	1:A:3622:LYS:HB2	1.71	0.42
1:A:3689:GLU:O	1:A:3693:LYS:N	2.52	0.42
1:A:3762:ARG:HH12	1:A:4754:ASN:N	2.18	0.42
1:A:3812:VAL:HG13	1:A:3816:MET:HE3	2.01	0.42
1:A:4239:GLU:O	1:A:4240:ASP:C	2.61	0.42
1:A:5034:ASP:OD1	1:A:5034:ASP:N	2.52	0.42
1:B:117:TYR:OH	1:B:146:CYS:O	2.31	0.42
1:B:214:VAL:HG12	1:B:341:TYR:CG	2.54	0.42
1:B:214:VAL:HG23	1:B:274:LEU:HB2	2.00	0.42
1:B:314:PHE:CE2	1:B:350:HIS:HB2	2.54	0.42
1:B:580:GLU:OE1	1:B:624:ASN:ND2	2.52	0.42
1:B:1827:ARG:O	1:B:1829:PRO:HD3	2.19	0.42
1:B:3048:ALA:O	1:B:3051:ARG:HB3	2.18	0.42
1:B:3762:ARG:HH12	1:B:4754:ASN:N	2.18	0.42
1:B:3842:LEU:HB3	1:B:3933:PHE:CE1	2.54	0.42
1:B:3906:GLN:NE2	1:B:3913:ILE:O	2.44	0.42
1:B:4095:LYS:HA	1:B:4098:ASP:OD2	2.19	0.42
1:B:4572:ALA:O	1:B:4576:ILE:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:117:TYR:O	1:D:138:GLN:N	2.31	0.42
1:D:663:TYR:HD2	1:D:804:PRO:HB3	1.85	0.42
1:D:1116:GLY:HA3	1:D:1132:TRP:HB3	2.01	0.42
1:D:1552:VAL:HB	1:D:1564:PHE:HZ	1.84	0.42
1:D:2199:ARG:HA	1:D:2204:HIS:CE1	2.54	0.42
1:D:2243:SER:OG	1:D:2245:GLN:OE1	2.18	0.42
1:D:2779:GLU:OE1	1:D:2779:GLU:N	2.51	0.42
1:D:2819:TRP:HE1	1:D:2881:ASN:ND2	2.17	0.42
1:D:3171:SER:O	1:D:3175:LEU:HG	2.20	0.42
1:D:3355:HIS:HA	1:D:3359:ILE:HD12	2.01	0.42
1:D:3431:ALA:HA	1:D:3434:LEU:HD12	2.01	0.42
1:D:3689:GLU:O	1:D:3693:LYS:N	2.52	0.42
1:D:3782:MET:C	1:D:3782:MET:SD	3.02	0.42
1:D:4185:GLY:O	1:D:4188:ARG:NH2	2.53	0.42
1:D:4572:ALA:O	1:D:4576:ILE:HG13	2.19	0.42
1:D:4732:PHE:CE1	1:D:4736:ARG:HD2	2.53	0.42
1:C:259:LEU:HD21	1:C:393:CYS:SG	2.58	0.42
1:C:553:ARG:HG2	1:C:555:GLU:OE1	2.19	0.42
1:C:597:HIS:HD2	1:C:1665:HIS:CE1	2.37	0.42
1:C:976:ARG:HD3	1:C:976:ARG:HA	1.66	0.42
1:C:978:THR:O	1:C:982:THR:HG23	2.18	0.42
1:C:1229:ASN:H	1:C:1827:ARG:CZ	2.32	0.42
1:C:1274:HIS:CD2	1:C:1277:TRP:HB2	2.53	0.42
1:C:1984:PHE:HB2	1:C:1991:THR:HG21	2.01	0.42
1:C:2165:LEU:HA	1:C:2165:LEU:HD12	1.71	0.42
1:C:2358:ILE:HG13	1:C:2359:ARG:NH2	2.33	0.42
1:C:2377:LEU:HD13	1:C:2469:ILE:HG13	2.01	0.42
1:C:2478:THR:O	1:C:2486:VAL:N	2.41	0.42
1:C:2522:LEU:HB3	1:C:2527:LEU:HG	2.00	0.42
1:C:2819:TRP:HE1	1:C:2881:ASN:ND2	2.17	0.42
1:C:3529:ASP:O	1:C:3532:LEU:N	2.52	0.42
1:C:3595:ARG:HA	1:C:3598:GLU:OE1	2.19	0.42
1:C:3842:LEU:HB3	1:C:3933:PHE:CE1	2.54	0.42
1:C:3892:CYS:SG	1:C:3968:TYR:HA	2.59	0.42
1:C:3995:VAL:O	1:C:3999:MET:HG2	2.19	0.42
1:C:4184:MET:HE3	1:C:5021:PHE:HA	2.01	0.42
1:C:4247:ILE:O	1:C:4251:ILE:HG23	2.19	0.42
1:C:4546:VAL:HA	1:C:4549:VAL:HG22	2.01	0.42
1:A:115:ARG:HE	1:A:399:GLN:HE21	1.66	0.42
1:A:596:ASN:ND2	1:A:599:VAL:HG23	2.35	0.42
1:A:681:HIS:O	1:A:784:SER:N	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:772:ASN:HB2	1:A:1470:ARG:HH11	1.83	0.42
1:A:875:ALA:O	1:A:878:ILE:HG12	2.19	0.42
1:A:1011:GLN:HB3	1:A:1019:PRO:HD2	2.01	0.42
1:A:1074:ILE:HG12	1:A:1605:TRP:HH2	1.84	0.42
1:A:1511:HIS:ND1	1:A:1511:HIS:N	2.65	0.42
1:A:2534:ALA:HB2	1:A:2585:THR:HG23	2.00	0.42
1:A:2647:HIS:HB2	1:A:2650:ARG:HE	1.84	0.42
1:A:2967:MET:O	1:A:2971:GLN:HG2	2.19	0.42
1:A:3453:ARG:HA	1:A:3456:GLN:NE2	2.35	0.42
1:A:3589:PRO:O	1:A:3593:VAL:HG13	2.20	0.42
1:A:3694:LYS:HA	1:A:3695:PRO:HD3	1.92	0.42
1:A:4677:LEU:HA	1:A:4680:LYS:HE2	2.00	0.42
1:A:4680:LYS:HE2	1:A:4680:LYS:HB2	1.67	0.42
1:A:4963:ILE:HD11	1:A:5026:ASP:N	2.35	0.42
2:E:25:HIS:HD1	2:E:40:ARG:HD2	1.85	0.42
2:H:56:ILE:HD12	2:H:56:ILE:H	1.85	0.42
2:G:52:LYS:HB3	2:G:54:GLU:OE1	2.20	0.42
1:B:41:GLY:O	1:B:45:ARG:NH2	2.47	0.42
1:B:81:MET:C	1:B:81:MET:HE2	2.44	0.42
1:B:111:HIS:HD2	1:B:114:SER:HB3	1.83	0.42
1:B:596:ASN:ND2	1:B:599:VAL:HG23	2.35	0.42
1:B:1011:GLN:HB3	1:B:1019:PRO:HD2	2.00	0.42
1:B:1229:ASN:H	1:B:1827:ARG:CZ	2.32	0.42
1:B:2967:MET:O	1:B:2971:GLN:HG2	2.19	0.42
1:B:3431:ALA:HA	1:B:3434:LEU:HD12	2.01	0.42
1:B:3702:VAL:HG13	1:B:3778:MET:SD	2.60	0.42
1:D:308:HIS:CD2	1:D:310:LYS:HB3	2.54	0.42
1:D:884:LEU:HA	1:D:887:ILE:HG22	2.00	0.42
1:D:928:THR:HG22	1:D:988:LEU:HD11	2.02	0.42
1:D:1980:LEU:O	1:D:1984:PHE:HB3	2.20	0.42
1:D:2176:ASN:O	1:D:2180:GLN:HG3	2.19	0.42
1:D:2522:LEU:HB3	1:D:2527:LEU:HG	2.00	0.42
1:D:2999:ALA:O	1:D:3003:LEU:HB2	2.20	0.42
1:D:3033:ASN:O	1:D:3037:GLU:HG2	2.18	0.42
1:D:3281:LEU:HB3	1:D:3282:PRO:HD3	2.00	0.42
1:D:3327:LEU:HB2	1:D:3364:ARG:NH2	2.33	0.42
1:D:3336:LYS:O	1:D:3340:VAL:HG13	2.18	0.42
1:D:3359:ILE:HG23	1:D:3434:LEU:HD21	2.01	0.42
1:D:3453:ARG:HA	1:D:3456:GLN:NE2	2.35	0.42
1:D:3969:ILE:CD1	1:D:3977:GLN:HG2	2.49	0.42
1:D:4159:ARG:HA	1:D:4162:ASN:ND2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4184:MET:HE3	1:D:5021:PHE:HA	2.01	0.42
1:D:4651:THR:HG1	1:D:4803:HIS:CD2	2.36	0.42
1:C:257:ARG:O	1:C:284:HIS:NE2	2.34	0.42
1:C:472:ARG:HA	1:C:472:ARG:HH11	1.85	0.42
1:C:493:ARG:O	1:C:496:VAL:HG22	2.20	0.42
1:C:652:ARG:HB2	1:C:750:LEU:HD13	2.00	0.42
1:C:688:LEU:HD23	1:C:712:TYR:HD1	1.84	0.42
1:C:1006:SER:C	1:C:1021:LEU:HD22	2.45	0.42
1:C:1006:SER:OG	1:C:1007:TYR:N	2.52	0.42
1:C:1749:PRO:HA	1:C:1750:PRO:HD3	1.96	0.42
1:C:2224:ARG:HB2	1:C:2225:PHE:CD2	2.55	0.42
1:C:2347:GLU:OE2	1:C:2347:GLU:N	2.32	0.42
1:C:2534:ALA:HB2	1:C:2585:THR:HG23	2.00	0.42
1:C:2643:LEU:HD12	1:C:2644:LEU:N	2.34	0.42
1:C:3171:SER:O	1:C:3175:LEU:HG	2.20	0.42
1:C:3440:GLU:HA	1:C:3443:ILE:HD12	2.01	0.42
1:C:3628:ARG:HD3	1:C:3632:VAL:HG13	2.00	0.42
1:A:375:LYS:HD2	1:A:376:ALA:N	2.34	0.42
1:A:597:HIS:HD2	1:A:1665:HIS:CE1	2.37	0.42
1:A:663:TYR:HD2	1:A:804:PRO:HB3	1.85	0.42
1:A:1005:TRP:CZ2	1:A:1013:ILE:HD13	2.54	0.42
1:A:1116:GLY:HA3	1:A:1132:TRP:HB3	2.01	0.42
1:A:1274:HIS:CD2	1:A:1277:TRP:HB2	2.54	0.42
1:A:2999:ALA:O	1:A:3003:LEU:HB2	2.20	0.42
1:A:3105:LYS:O	1:A:3108:GLU:HG2	2.19	0.42
1:A:3823:LYS:C	1:A:3824:LYS:HG2	2.44	0.42
1:A:4247:ILE:O	1:A:4251:ILE:HG23	2.19	0.42
1:A:4961:CYS:SG	1:A:4983:HIS:CE1	3.11	0.42
1:A:4974:GLY:O	1:A:4977:THR:OG1	2.32	0.42
1:A:4999:ASP:OD1	1:A:5000:GLU:N	2.52	0.42
1:A:5006:GLN:O	1:A:5010:VAL:HG23	2.19	0.42
2:E:84:ALA:O	2:E:93:PRO:HB3	2.19	0.42
2:H:8:SER:CB	2:H:71:ARG:HB3	2.48	0.42
2:H:84:ALA:O	2:H:93:PRO:HB3	2.19	0.42
2:F:47:LYS:HD3	2:F:47:LYS:N	2.35	0.42
1:B:597:HIS:HD2	1:B:1665:HIS:CE1	2.37	0.42
1:B:846:LEU:HD23	1:B:847:SER:N	2.34	0.42
1:B:904:HIS:HB3	1:B:907:LEU:HB3	2.02	0.42
1:B:999:ASP:O	1:B:1003:GLN:HG3	2.19	0.42
1:B:1005:TRP:CZ2	1:B:1013:ILE:HD13	2.54	0.42
1:B:1074:ILE:HG12	1:B:1605:TRP:HH2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1105:ALA:N	1:B:1189:LEU:O	2.39	0.42
1:B:1516:ILE:HA	1:B:1531:ALA:HA	2.00	0.42
1:B:1716:ILE:CG2	1:B:1847:THR:HG21	2.50	0.42
1:B:2176:ASN:O	1:B:2180:GLN:HG3	2.19	0.42
1:B:2227:LYS:O	1:B:2231:SER:OG	2.33	0.42
1:B:2377:LEU:HD13	1:B:2469:ILE:HG13	2.01	0.42
1:B:2630:VAL:HG21	1:B:2678:LEU:HD13	2.01	0.42
1:B:3204:ALA:HB2	1:B:3284:TRP:CD2	2.55	0.42
1:B:3514:LEU:HA	1:B:3517:MET:HG2	2.02	0.42
1:B:3522:LEU:CD2	1:C:1220:GLN:OE1	2.68	0.42
1:B:3589:PRO:O	1:B:3593:VAL:HG13	2.20	0.42
1:B:3667:HIS:HD1	1:B:3667:HIS:C	2.27	0.42
1:B:5034:ASP:OD1	1:B:5034:ASP:N	2.52	0.42
1:D:1984:PHE:HB2	1:D:1991:THR:HG21	2.01	0.42
1:D:3078:ARG:HA	1:D:3081:MET:SD	2.59	0.42
1:D:3348:ARG:CZ	1:D:3348:ARG:HA	2.50	0.42
1:D:4150:LEU:HD23	1:D:4150:LEU:HA	1.76	0.42
1:D:4204:GLN:O	1:D:4207:MET:HG2	2.19	0.42
1:D:4960:ILE:HG21	1:D:4988:TYR:HE2	1.83	0.42
1:C:214:VAL:HG12	1:C:341:TYR:CG	2.54	0.42
1:C:875:ALA:O	1:C:878:ILE:HG12	2.19	0.42
1:C:884:LEU:HA	1:C:887:ILE:HG22	2.00	0.42
1:C:1021:LEU:HD23	1:C:1021:LEU:O	2.20	0.42
1:C:1106:ARG:HH21	1:C:1120:LEU:HD13	1.83	0.42
1:C:1491:ASN:OD1	1:C:1491:ASN:N	2.52	0.42
1:C:1660:GLN:NE2	1:C:1660:GLN:O	2.48	0.42
1:C:1808:ARG:HG3	1:C:1854:PHE:CE1	2.54	0.42
1:C:1950:GLU:O	1:C:1954:ARG:HG3	2.18	0.42
1:C:2012:PHE:HD1	1:C:3661:TRP:HZ2	1.68	0.42
1:C:2155:LEU:HD22	1:C:2188:ASN:OD1	2.20	0.42
1:C:2189:LYS:NZ	1:C:2192:TYR:HB2	2.29	0.42
1:C:2377:LEU:HB2	1:C:2465:ASP:OD2	2.19	0.42
1:C:3348:ARG:HA	1:C:3348:ARG:CZ	2.50	0.42
1:C:3352:GLU:OE2	1:C:3352:GLU:N	2.34	0.42
1:C:3514:LEU:HA	1:C:3517:MET:HG2	2.02	0.42
1:C:3591:LYS:HD2	1:C:3591:LYS:C	2.44	0.42
1:C:3702:VAL:HG13	1:C:3778:MET:SD	2.60	0.42
1:C:4999:ASP:OD1	1:C:5000:GLU:N	2.52	0.42
1:A:214:VAL:CG2	1:A:339:ILE:HB	2.50	0.42
1:A:469:ARG:NH2	1:A:3710:LEU:O	2.48	0.42
1:A:493:ARG:O	1:A:496:VAL:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1568:LYS:CD	1:A:1574:PRO:HA	2.50	0.42
1:A:1612:PHE:O	1:A:1614:GLN:NE2	2.44	0.42
1:A:2036:GLN:NE2	1:A:2045:GLN:OE1	2.50	0.42
1:A:2643:LEU:HD12	1:A:2644:LEU:N	2.34	0.42
1:A:2758:PHE:HB3	1:A:2809:ILE:HG21	2.01	0.42
1:A:3078:ARG:HA	1:A:3081:MET:SD	2.59	0.42
1:A:3081:MET:HA	1:A:3089:LYS:NZ	2.34	0.42
1:A:3204:ALA:HB2	1:A:3284:TRP:CD2	2.55	0.42
1:A:3269:VAL:HA	1:A:3273:THR:OG1	2.20	0.42
1:A:3478:MET:N	1:A:3478:MET:SD	2.92	0.42
1:A:3614:LYS:H	1:A:3614:LYS:HG2	1.56	0.42
1:A:4165:GLU:HA	1:A:4168:GLU:HG2	2.02	0.42
1:A:4902:GLU:H	1:A:4902:GLU:CD	2.18	0.42
2:E:36:PHE:CE1	2:E:97:LEU:HD11	2.55	0.42
2:F:18:ARG:C	2:F:18:ARG:HD3	2.44	0.42
1:B:115:ARG:NE	1:B:399:GLN:HE21	2.17	0.42
1:B:214:VAL:CG2	1:B:339:ILE:HB	2.50	0.42
1:B:886:ARG:HG3	1:B:891:TRP:HE3	1.83	0.42
1:B:893:TYR:H	1:B:962:SER:H	1.67	0.42
1:B:1130:GLN:HG2	1:B:1132:TRP:CD1	2.55	0.42
1:B:1586:ASN:HD21	1:B:1588:ALA:HB3	1.85	0.42
1:B:2647:HIS:HB2	1:B:2650:ARG:HE	1.84	0.42
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.19	0.42
1:B:3348:ARG:CZ	1:B:3348:ARG:HA	2.50	0.42
1:B:3478:MET:HE3	1:C:1141:ARG:NH1	2.26	0.42
1:B:3629:ARG:HE	1:B:3632:VAL:HG21	1.85	0.42
1:B:3667:HIS:C	1:B:3667:HIS:ND1	2.78	0.42
1:B:3892:CYS:SG	1:B:3968:TYR:HA	2.59	0.42
1:D:239:ASP:O	1:D:241:GLN:NE2	2.51	0.42
1:D:917:GLU:HA	1:D:920:TYR:CE2	2.54	0.42
1:D:957:LYS:HD3	1:D:957:LYS:HA	1.81	0.42
1:D:1006:SER:C	1:D:1021:LEU:HD22	2.45	0.42
1:D:2155:LEU:HD22	1:D:2188:ASN:OD1	2.20	0.42
1:D:2647:HIS:HB2	1:D:2650:ARG:HE	1.84	0.42
1:D:3192:GLU:O	1:D:3196:ARG:HG2	2.19	0.42
1:D:3391:GLU:HG3	1:D:3395:ARG:CZ	2.50	0.42
1:D:3667:HIS:HD1	1:D:3667:HIS:C	2.27	0.42
1:D:3762:ARG:NH1	1:D:4752:ALA:O	2.52	0.42
1:D:3995:VAL:O	1:D:3999:MET:HG2	2.19	0.42
1:D:4184:MET:SD	1:D:4188:ARG:NH2	2.77	0.42
1:D:4634:GLU:OE2	1:D:4637:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5017:ARG:HH11	1:D:5017:ARG:HG3	1.83	0.42
1:C:81:MET:C	1:C:81:MET:HE2	2.44	0.42
1:C:115:ARG:HE	1:C:399:GLN:HE21	1.66	0.42
1:C:214:VAL:CG2	1:C:339:ILE:HB	2.50	0.42
1:C:276:TRP:HZ3	1:C:346:CYS:SG	2.43	0.42
1:C:846:LEU:HD23	1:C:847:SER:N	2.34	0.42
1:C:982:THR:HA	1:C:985:VAL:HG22	2.00	0.42
1:C:1101:ARG:HB3	1:C:1123:VAL:HB	2.00	0.42
1:C:1586:ASN:HD21	1:C:1588:ALA:HB3	1.85	0.42
1:C:1716:ILE:CG2	1:C:1847:THR:HG21	2.50	0.42
1:C:2014:ASP:OD1	1:C:2014:ASP:N	2.53	0.42
1:C:3465:ASN:C	1:C:3467:MET:H	2.27	0.42
1:C:3629:ARG:HE	1:C:3632:VAL:HG21	1.85	0.42
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.52	0.42
1:C:4159:ARG:HA	1:C:4162:ASN:ND2	2.32	0.42
1:C:4634:GLU:OE2	1:C:4637:GLY:N	2.53	0.42
1:C:4718:LYS:HD3	1:C:4718:LYS:N	2.35	0.42
1:C:4958:CYS:CB	1:C:4961:CYS:HB2	2.50	0.42
1:A:438:ILE:H	1:A:438:ILE:HG13	1.67	0.42
1:A:645:ARG:CZ	1:A:826:ILE:HD13	2.50	0.42
1:A:875:ALA:C	1:A:879:HIS:HD1	2.16	0.42
1:A:1091:GLU:HG2	1:A:1148:VAL:HG12	2.01	0.42
1:A:1100:MET:HB3	1:A:1193:SER:O	2.20	0.42
1:A:1613:LEU:HD23	1:A:1613:LEU:HA	1.81	0.42
1:A:2550:LEU:HA	1:A:2553:TYR:CE2	2.54	0.42
1:A:3327:LEU:HB2	1:A:3364:ARG:NH2	2.33	0.42
1:A:3554:GLN:HA	1:A:3557:LEU:HG	2.00	0.42
1:A:3836:MET:HE1	1:A:3837:GLN:HE21	1.85	0.42
1:A:4634:GLU:OE2	1:A:4637:GLY:N	2.53	0.42
1:A:4823:LEU:HD22	1:B:4843:LEU:HD22	2.00	0.42
1:B:182:LEU:HD13	1:B:182:LEU:HA	1.88	0.42
1:B:332:GLU:OE1	1:B:332:GLU:N	2.52	0.42
1:B:484:LEU:O	1:B:488:LEU:HG	2.20	0.42
1:B:551:LEU:HB3	1:B:589:LEU:HD11	1.99	0.42
1:B:875:ALA:O	1:B:878:ILE:HG12	2.19	0.42
1:B:1153:ILE:CD1	1:B:1160:ILE:HG12	2.50	0.42
1:B:2199:ARG:HA	1:B:2204:HIS:CE1	2.54	0.42
1:B:2336:ARG:HG3	1:B:2435:ARG:HE	1.83	0.42
1:B:2358:ILE:HG13	1:B:2359:ARG:NH2	2.34	0.42
1:B:2536:LEU:HD13	1:B:2547:ALA:HB1	2.01	0.42
1:B:3397:GLU:O	1:B:3400:VAL:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3595:ARG:HA	1:B:3598:GLU:OE1	2.19	0.42
1:B:3762:ARG:NH1	1:B:4752:ALA:O	2.52	0.42
1:B:4134:GLU:HB3	1:B:4135:PRO:HD3	2.00	0.42
1:B:4160:LEU:HD12	1:B:4160:LEU:HA	1.89	0.42
1:B:4185:GLY:O	1:B:4188:ARG:NH2	2.53	0.42
1:B:4229:GLU:H	1:B:4229:GLU:CD	2.25	0.42
1:B:4239:GLU:O	1:B:4240:ASP:C	2.61	0.42
1:B:4718:LYS:HD3	1:B:4718:LYS:N	2.35	0.42
1:B:4720:VAL:O	1:B:4724:VAL:HG23	2.20	0.42
1:D:172:VAL:HG12	1:D:178:ARG:C	2.45	0.42
1:D:332:GLU:OE1	1:D:332:GLU:N	2.52	0.42
1:D:375:LYS:HD2	1:D:376:ALA:N	2.34	0.42
1:D:596:ASN:ND2	1:D:599:VAL:HG23	2.35	0.42
1:D:982:THR:HA	1:D:985:VAL:HG22	2.00	0.42
1:D:1220:GLN:OE1	1:C:3522:LEU:HD22	2.19	0.42
1:D:1771:LEU:O	1:D:1772:ARG:HD3	2.19	0.42
1:D:2643:LEU:HD12	1:D:2644:LEU:N	2.34	0.42
1:D:2686:LEU:HD22	1:D:2997:PHE:CD1	2.55	0.42
1:D:2761:TYR:HA	1:D:2764:GLU:HB2	2.02	0.42
1:D:2871:LEU:HA	1:D:2874:MET:HE2	2.02	0.42
1:D:3836:MET:HE1	1:D:3837:GLN:HE21	1.85	0.42
1:D:4579:PHE:O	1:D:4632:LEU:HG	2.20	0.42
1:C:545:ASP:OD1	1:C:545:ASP:N	2.50	0.42
1:C:904:HIS:HB3	1:C:907:LEU:HB3	2.02	0.42
1:C:1130:GLN:HG2	1:C:1132:TRP:CD1	2.55	0.42
1:C:1521:ASP:HB3	1:C:1524:THR:HB	2.01	0.42
1:C:2630:VAL:HG21	1:C:2678:LEU:HD13	2.01	0.42
1:C:2967:MET:O	1:C:2971:GLN:HG2	2.19	0.42
1:C:3081:MET:HA	1:C:3089:LYS:NZ	2.34	0.42
1:C:3354:LEU:HB2	1:C:3415:TYR:CE2	2.54	0.42
1:C:3355:HIS:HA	1:C:3359:ILE:HD12	2.02	0.42
1:C:3546:ASP:C	1:C:3550:ARG:HH21	2.27	0.42
1:A:418:LEU:HA	1:A:421:PHE:CE2	2.55	0.42
1:A:999:ASP:O	1:A:1003:GLN:HG3	2.19	0.42
1:A:1491:ASN:OD1	1:A:1491:ASN:N	2.52	0.42
1:A:2006:ILE:O	1:A:2010:LEU:HD23	2.20	0.42
1:A:2686:LEU:HD22	1:A:2997:PHE:CD1	2.55	0.42
1:A:3285:TRP:HA	1:A:3307:VAL:HB	2.02	0.42
1:A:3348:ARG:CZ	1:A:3348:ARG:HA	2.50	0.42
1:A:3453:ARG:O	1:A:3456:GLN:HG2	2.19	0.42
2:E:79:ASP:OD2	2:E:79:ASP:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:110:ARG:HE	1:B:115:ARG:C	2.27	0.42
1:B:125:ARG:O	1:B:125:ARG:HD2	2.20	0.42
1:B:308:HIS:O	1:B:308:HIS:CG	2.73	0.42
1:B:493:ARG:O	1:B:496:VAL:HG22	2.20	0.42
1:B:809:ALA:HB2	1:B:1017:ARG:HH12	1.84	0.42
1:B:817:PRO:C	1:B:1028:ASP:HB3	2.45	0.42
1:B:1006:SER:OG	1:B:1007:TYR:N	2.52	0.42
1:B:1012:ASP:CG	1:B:1014:PRO:HD2	2.45	0.42
1:B:1747:LEU:HD23	1:B:1747:LEU:HA	1.89	0.42
1:B:2550:LEU:HA	1:B:2553:TYR:CE2	2.54	0.42
1:B:3290:GLU:OE1	1:B:3308:THR:HA	2.20	0.42
1:B:3446:SER:HA	1:B:3452:LYS:HD3	2.00	0.42
1:B:5026:ASP:OD1	1:B:5027:CYS:N	2.52	0.42
1:D:109:LEU:H	1:D:117:TYR:HE1	1.66	0.42
1:D:418:LEU:HA	1:D:421:PHE:CE2	2.55	0.42
1:D:675:LEU:HD22	1:D:786:GLY:HA3	2.01	0.42
1:D:793:LEU:HD23	1:D:793:LEU:HA	1.83	0.42
1:D:887:ILE:HG12	1:D:959:TYR:CG	2.55	0.42
1:D:904:HIS:HB3	1:D:907:LEU:HB3	2.02	0.42
1:D:2351:ASN:HB3	1:D:2355:ARG:NH2	2.35	0.42
1:D:3105:LYS:O	1:D:3108:GLU:HG2	2.19	0.42
1:D:3762:ARG:HH12	1:D:4754:ASN:N	2.18	0.42
1:D:4569:LEU:O	1:D:4573:ILE:HD12	2.19	0.42
1:D:4720:VAL:O	1:D:4724:VAL:HG23	2.20	0.42
1:C:172:VAL:HG12	1:C:178:ARG:C	2.45	0.42
1:C:928:THR:HG22	1:C:988:LEU:HD11	2.02	0.42
1:C:1274:HIS:HB3	1:C:1277:TRP:HB2	2.01	0.42
1:C:2265:LEU:HB2	1:C:2330:ARG:HD3	2.01	0.42
1:C:2479:LEU:H	1:C:2479:LEU:HD22	1.85	0.42
1:C:3202:PRO:C	1:C:3284:TRP:HH2	2.28	0.42
1:C:3442:PHE:CE2	1:C:3605:HIS:HB3	2.55	0.42
1:C:3762:ARG:HH12	1:C:4754:ASN:N	2.18	0.42
1:C:4963:ILE:HD11	1:C:5026:ASP:N	2.35	0.42
1:A:904:HIS:HB3	1:A:907:LEU:HB3	2.02	0.42
1:A:928:THR:HG22	1:A:988:LEU:HD11	2.02	0.42
1:A:982:THR:HA	1:A:985:VAL:HG22	2.00	0.42
1:A:1092:PHE:HD1	1:A:1202:LEU:HB3	1.84	0.42
1:A:1581:LEU:HA	1:A:1584:ARG:HB2	1.99	0.42
1:A:2766:TRP:O	1:A:2770:LYS:HG3	2.19	0.42
1:A:3371:LYS:O	1:A:3375:GLU:HG3	2.19	0.42
1:A:3595:ARG:HA	1:A:3598:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3652:MET:HG2	1:A:3652:MET:H	1.60	0.42
1:A:4835:LYS:O	1:A:4839:MET:SD	2.78	0.42
2:E:100:ASP:N	2:E:100:ASP:OD1	2.52	0.42
1:B:202:MET:C	1:B:202:MET:HE3	2.44	0.42
1:B:426:ARG:HG3	1:B:431:PRO:HA	2.00	0.42
1:B:603:LEU:HD11	1:B:621:ILE:HG12	2.02	0.42
1:B:683:ARG:HG2	1:B:707:VAL:O	2.20	0.42
1:B:790:ARG:HA	1:B:1627:ALA:HA	2.02	0.42
1:B:1092:PHE:HD1	1:B:1202:LEU:HB3	1.84	0.42
1:B:1100:MET:HB3	1:B:1193:SER:O	2.20	0.42
1:B:1229:ASN:ND2	1:B:1827:ARG:HG3	2.35	0.42
1:B:2116:LEU:O	1:B:2120:MET:HG2	2.19	0.42
1:B:2265:LEU:HB2	1:B:2330:ARG:HD3	2.01	0.42
1:B:2889:LYS:HA	1:B:2892:GLN:HG2	2.02	0.42
1:B:3202:PRO:C	1:B:3284:TRP:HH2	2.28	0.42
1:B:3614:LYS:H	1:B:3614:LYS:HG2	1.56	0.42
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.52	0.42
1:B:4003:LEU:HD21	1:B:4012:LEU:HD23	2.02	0.42
1:B:4247:ILE:O	1:B:4251:ILE:HG23	2.19	0.42
1:B:4999:ASP:OD1	1:B:5000:GLU:N	2.52	0.42
1:D:214:VAL:HG12	1:D:341:TYR:CG	2.54	0.42
1:D:308:HIS:O	1:D:308:HIS:CG	2.73	0.42
1:D:598:LYS:HD2	1:D:598:LYS:HA	1.84	0.42
1:D:1021:LEU:O	1:D:1021:LEU:HD23	2.20	0.42
1:D:1290:ARG:HB3	1:D:1598:GLN:HB2	2.00	0.42
1:D:1481:GLY:O	1:D:1482:ASN:C	2.63	0.42
1:D:1521:ASP:HB3	1:D:1524:THR:HB	2.01	0.42
1:D:2006:ILE:O	1:D:2010:LEU:HD23	2.20	0.42
1:D:2377:LEU:HD13	1:D:2469:ILE:HG13	2.01	0.42
1:D:2527:LEU:O	1:D:2531:ARG:HG2	2.20	0.42
1:D:2914:LYS:H	1:D:2914:LYS:HG3	1.69	0.42
1:D:3402:CYS:SG	1:D:3451:PHE:HE1	2.42	0.42
1:D:3589:PRO:O	1:D:3593:VAL:HG13	2.20	0.42
1:D:3985:LEU:O	1:D:3989:VAL:HG23	2.20	0.42
1:C:273:HIS:CD2	1:C:334:MET:HE2	2.54	0.42
1:C:418:LEU:HA	1:C:421:PHE:CE2	2.55	0.42
1:C:469:ARG:NH2	1:C:3710:LEU:O	2.48	0.42
1:C:598:LYS:HD2	1:C:598:LYS:HA	1.84	0.42
1:C:809:ALA:HB2	1:C:1017:ARG:HH12	1.84	0.42
1:C:817:PRO:C	1:C:1028:ASP:HB3	2.45	0.42
1:C:897:ARG:HG3	1:C:904:HIS:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1092:PHE:HD1	1:C:1202:LEU:HB3	1.84	0.42
1:C:1131:ARG:NH1	1:C:1139:PHE:HB2	2.32	0.42
1:C:1452:TRP:CD1	1:C:1452:TRP:N	2.85	0.42
1:C:2608:MET:HG2	1:C:2608:MET:H	1.74	0.42
1:C:2647:HIS:HB2	1:C:2650:ARG:HE	1.84	0.42
1:C:3402:CYS:SG	1:C:3451:PHE:HE1	2.42	0.42
1:C:3527:PRO:HA	1:C:3530:GLN:HG3	2.02	0.42
1:C:5006:GLN:O	1:C:5010:VAL:HG23	2.19	0.42
1:A:840:VAL:HG13	1:A:1199:VAL:HG22	2.02	0.42
1:A:1153:ILE:CD1	1:A:1160:ILE:HG12	2.50	0.42
1:A:1481:GLY:O	1:A:1482:ASN:C	2.63	0.42
1:A:1586:ASN:HD21	1:A:1588:ALA:HB3	1.85	0.42
1:A:2349:ASN:OD1	1:A:3849:ARG:NH2	2.53	0.42
1:A:2785:LEU:HD23	1:A:2785:LEU:HA	1.94	0.42
1:A:3431:ALA:HA	1:A:3434:LEU:HD12	2.01	0.42
1:A:3440:GLU:HA	1:A:3443:ILE:HD12	2.01	0.42
1:A:3629:ARG:HE	1:A:3632:VAL:HG21	1.85	0.42
1:A:4031:LEU:HD23	1:A:4031:LEU:HA	1.88	0.42
1:A:4150:LEU:HA	1:A:4150:LEU:HD23	1.76	0.42
1:A:4185:GLY:O	1:A:4188:ARG:NH2	2.53	0.42
1:A:4204:GLN:O	1:A:4207:MET:HG2	2.19	0.42
1:A:4720:VAL:O	1:A:4724:VAL:HG23	2.20	0.42
1:A:4767:TRP:O	1:A:4770:SER:OG	2.33	0.42
1:A:4796:MET:O	1:A:4800:LEU:HG	2.20	0.42
2:G:8:SER:OG	2:G:71:ARG:HB3	2.20	0.42
2:G:59:TRP:HE1	2:G:99:PHE:HB2	1.84	0.42
1:B:663:TYR:HD2	1:B:804:PRO:HB3	1.85	0.42
1:B:699:GLY:N	1:B:1647:CYS:SG	2.84	0.42
1:B:1082:THR:HG21	1:B:1107:PRO:HG3	2.02	0.42
1:B:1968:LYS:HE2	1:B:1968:LYS:HB2	1.80	0.42
1:B:2244:ARG:HG2	1:B:2248:ARG:HH12	1.84	0.42
1:B:2630:VAL:O	1:B:2633:LEU:HD22	2.20	0.42
1:B:3105:LYS:O	1:B:3108:GLU:HG2	2.19	0.42
1:B:3232:LEU:HD13	1:B:3232:LEU:HA	1.84	0.42
1:B:3453:ARG:HA	1:B:3456:GLN:NE2	2.35	0.42
1:B:3453:ARG:O	1:B:3456:GLN:HG2	2.19	0.42
1:B:3527:PRO:HA	1:B:3530:GLN:HG3	2.02	0.42
1:B:3823:LYS:C	1:B:3824:LYS:HG2	2.44	0.42
1:B:3941:ASP:OD1	1:B:3941:ASP:N	2.51	0.42
1:B:4634:GLU:OE2	1:B:4637:GLY:N	2.53	0.42
1:B:4865:LYS:HB2	1:B:4875:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4958:CYS:CB	1:B:4961:CYS:HB2	2.50	0.42
1:D:81:MET:HE2	1:D:81:MET:C	2.44	0.42
1:D:115:ARG:NE	1:D:399:GLN:HE21	2.17	0.42
1:D:645:ARG:CZ	1:D:826:ILE:HD13	2.50	0.42
1:D:663:TYR:OH	1:D:665:GLU:OE2	2.34	0.42
1:D:817:PRO:C	1:D:1028:ASP:HB3	2.45	0.42
1:D:909:ASN:O	1:D:913:LEU:N	2.42	0.42
1:D:1153:ILE:CD1	1:D:1160:ILE:HG12	2.50	0.42
1:D:1207:ASP:CG	1:D:1209:SER:HG	2.22	0.42
1:D:1265:ASP:OD2	1:D:1265:ASP:N	2.48	0.42
1:D:2233:CYS:O	1:D:2236:LEU:N	2.53	0.42
1:D:3178:THR:C	1:D:3179:LYS:HD3	2.45	0.42
1:D:3352:GLU:OE2	1:D:3352:GLU:N	2.34	0.42
1:D:3366:ARG:HH12	1:D:3370:GLY:HA3	1.85	0.42
1:D:4147:LEU:HD13	1:D:4164:LEU:HD23	2.02	0.42
1:D:4718:LYS:HD3	1:D:4718:LYS:N	2.35	0.42
1:D:4963:ILE:HD11	1:D:5026:ASP:N	2.35	0.42
1:D:5026:ASP:OD1	1:D:5027:CYS:N	2.52	0.42
1:C:159:GLU:OE2	1:C:160:GLY:N	2.48	0.42
1:C:438:ILE:H	1:C:438:ILE:HG13	1.67	0.42
1:C:1011:GLN:HB3	1:C:1019:PRO:HD2	2.01	0.42
1:C:1228:ILE:HG22	1:C:1827:ARG:NH1	2.34	0.42
1:C:1259:ARG:HH12	1:C:1593:PRO:HA	1.85	0.42
1:C:1786:LEU:HD12	1:C:1786:LEU:HA	1.92	0.42
1:C:2716:ASP:OD1	1:C:2716:ASP:N	2.53	0.42
1:C:2999:ALA:O	1:C:3003:LEU:HB2	2.20	0.42
1:C:3178:THR:C	1:C:3179:LYS:HD3	2.45	0.42
1:C:3391:GLU:HG3	1:C:3395:ARG:CZ	2.50	0.42
1:C:3667:HIS:ND1	1:C:3667:HIS:C	2.78	0.42
1:C:4147:LEU:HD13	1:C:4164:LEU:HD23	2.02	0.42
1:C:4185:GLY:O	1:C:4188:ARG:NH2	2.53	0.42
1:C:4579:PHE:O	1:C:4632:LEU:HG	2.20	0.42
1:C:4998:LYS:NZ	1:C:5002:GLU:O	2.43	0.42
1:A:39:ALA:O	1:A:64:ILE:HD11	2.20	0.41
1:A:109:LEU:H	1:A:117:TYR:HE1	1.66	0.41
1:A:117:TYR:OH	1:A:146:CYS:O	2.31	0.41
1:A:359:TYR:HB2	1:A:374:LYS:HD2	2.02	0.41
1:A:603:LEU:HD11	1:A:621:ILE:HG12	2.02	0.41
1:A:664:PHE:HB3	1:A:811:CYS:SG	2.60	0.41
1:A:683:ARG:HG2	1:A:707:VAL:O	2.20	0.41
1:A:954:LYS:HD2	1:A:954:LYS:HA	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1228:ILE:HG22	1:A:1827:ARG:NH1	2.34	0.41
1:A:1980:LEU:O	1:A:1984:PHE:HB3	2.20	0.41
1:A:2608:MET:HG2	1:A:2608:MET:H	1.74	0.41
1:A:2630:VAL:O	1:A:2633:LEU:HD22	2.20	0.41
1:A:2963:LEU:HD23	1:A:2963:LEU:HA	1.84	0.41
1:A:3634:ALA:O	1:A:3637:ARG:NH2	2.53	0.41
1:A:3702:VAL:HG13	1:A:3778:MET:SD	2.60	0.41
2:H:40:ARG:HD2	2:H:40:ARG:N	2.34	0.41
2:G:56:ILE:HD12	2:G:56:ILE:H	1.85	0.41
2:F:21:THR:HB	2:F:107:GLU:HB2	2.02	0.41
1:B:183:SER:OG	1:B:186:SER:OG	2.32	0.41
1:B:418:LEU:HA	1:B:421:PHE:CE2	2.55	0.41
1:B:793:LEU:HD23	1:B:793:LEU:HA	1.83	0.41
1:B:891:TRP:CA	1:B:902:ARG:HE	2.32	0.41
1:B:897:ARG:HG3	1:B:904:HIS:CE1	2.55	0.41
1:B:1089:TYR:HD2	1:B:1152:MET:SD	2.43	0.41
1:B:1091:GLU:HG2	1:B:1148:VAL:HG12	2.01	0.41
1:B:2224:ARG:H	1:B:2224:ARG:HG2	1.70	0.41
1:B:2349:ASN:OD1	1:B:3849:ARG:NH2	2.53	0.41
1:B:2351:ASN:HB3	1:B:2355:ARG:NH2	2.35	0.41
1:B:3392:LEU:HB3	1:B:3395:ARG:HH21	1.85	0.41
1:B:3506:GLN:H	1:B:3506:GLN:CD	2.21	0.41
1:B:3543:LYS:N	1:B:3543:LYS:HD3	2.35	0.41
1:B:3707:ARG:O	1:B:3711:THR:OG1	2.27	0.41
1:B:4183:ILE:HD12	1:B:5021:PHE:O	2.20	0.41
1:B:4680:LYS:O	1:B:4685:GLY:N	2.31	0.41
1:B:4876:CYS:HB2	1:B:4882:CYS:HB2	1.37	0.41
1:D:315:CYS:SG	1:D:349:GLN:HB3	2.60	0.41
1:D:359:TYR:HB2	1:D:374:LYS:HD2	2.02	0.41
1:D:493:ARG:O	1:D:496:VAL:HG22	2.20	0.41
1:D:897:ARG:HG3	1:D:904:HIS:CE1	2.55	0.41
1:D:953:THR:O	1:D:968:ALA:HB1	2.20	0.41
1:D:1263:THR:N	1:D:1266:THR:O	2.33	0.41
1:D:1953:HIS:O	1:D:1957:SER:OG	2.36	0.41
1:D:2349:ASN:OD1	1:D:3849:ARG:NH2	2.53	0.41
1:D:2630:VAL:O	1:D:2633:LEU:HD22	2.20	0.41
1:D:2716:ASP:N	1:D:2716:ASP:OD1	2.53	0.41
1:D:3035:GLU:HG3	1:D:3038:MET:HE3	2.01	0.41
1:D:3158:LEU:HD23	1:D:3158:LEU:H	1.85	0.41
1:D:3403:ARG:HA	1:D:3458:PHE:CZ	2.55	0.41
1:D:3442:PHE:CE2	1:D:3605:HIS:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3543:LYS:HD3	1:D:3543:LYS:N	2.35	0.41
1:D:4796:MET:O	1:D:4800:LEU:HG	2.20	0.41
1:D:4963:ILE:HD13	1:D:5030:LYS:HZ1	1.82	0.41
1:C:359:TYR:HB2	1:C:374:LYS:HD2	2.02	0.41
1:C:887:ILE:HG12	1:C:959:TYR:CG	2.55	0.41
1:C:1091:GLU:HG2	1:C:1148:VAL:HG12	2.01	0.41
1:C:1100:MET:HB3	1:C:1193:SER:O	2.20	0.41
1:C:1771:LEU:O	1:C:1772:ARG:HD3	2.19	0.41
1:C:2116:LEU:O	1:C:2120:MET:HG2	2.19	0.41
1:C:2199:ARG:HA	1:C:2204:HIS:CE1	2.54	0.41
1:C:2871:LEU:HA	1:C:2874:MET:HE2	2.02	0.41
1:C:2889:LYS:HA	1:C:2892:GLN:HG2	2.02	0.41
1:C:3290:GLU:OE1	1:C:3308:THR:HA	2.20	0.41
1:C:3431:ALA:HA	1:C:3434:LEU:HD12	2.01	0.41
1:C:3453:ARG:HA	1:C:3456:GLN:NE2	2.35	0.41
1:C:3560:GLN:OE1	1:C:3560:GLN:N	2.30	0.41
1:C:3836:MET:HE1	1:C:3837:GLN:HE21	1.85	0.41
1:C:3946:GLN:OE1	1:C:3949:ARG:NE	2.49	0.41
1:A:41:GLY:O	1:A:45:ARG:NH2	2.47	0.41
1:A:276:TRP:HZ3	1:A:346:CYS:SG	2.43	0.41
1:A:477:LEU:O	1:A:480:GLU:HG3	2.20	0.41
1:A:957:LYS:HD3	1:A:957:LYS:HA	1.80	0.41
1:A:960:MET:H	1:A:960:MET:CE	2.33	0.41
1:A:1160:ILE:HG13	1:A:1182:ILE:HD13	2.01	0.41
1:A:1552:VAL:HB	1:A:1564:PHE:CZ	2.56	0.41
1:A:1968:LYS:HE2	1:A:1968:LYS:HB2	1.80	0.41
1:A:2090:LYS:HA	1:A:2091:PRO:HD3	1.96	0.41
1:A:2716:ASP:OD1	1:A:2716:ASP:N	2.53	0.41
1:A:3005:LEU:O	1:A:3008:GLN:NE2	2.54	0.41
1:A:3312:LEU:O	1:A:3345:ILE:HD11	2.21	0.41
1:A:3410:PRO:O	1:A:3414:ARG:NH1	2.54	0.41
1:A:4028:LEU:HG	1:A:4146:LEU:HD13	2.03	0.41
1:A:4569:LEU:O	1:A:4573:ILE:HD12	2.19	0.41
2:F:29:MET:HA	2:F:35:LYS:HA	2.02	0.41
1:B:115:ARG:HE	1:B:399:GLN:HE21	1.66	0.41
1:B:359:TYR:HB2	1:B:374:LYS:HD2	2.02	0.41
1:B:645:ARG:CZ	1:B:826:ILE:HD13	2.50	0.41
1:B:840:VAL:HG13	1:B:1199:VAL:HG22	2.02	0.41
1:B:887:ILE:HG12	1:B:959:TYR:CG	2.55	0.41
1:B:1021:LEU:O	1:B:1021:LEU:HD23	2.20	0.41
1:B:1771:LEU:O	1:B:1772:ARG:HD3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2014:ASP:OD1	1:B:2014:ASP:N	2.53	0.41
1:B:2199:ARG:HA	1:B:2204:HIS:HE1	1.86	0.41
1:B:2643:LEU:HD12	1:B:2644:LEU:N	2.34	0.41
1:B:3836:MET:HE1	1:B:3837:GLN:HE21	1.85	0.41
1:B:4041:ALA:O	1:B:4045:VAL:HG12	2.21	0.41
1:B:4866:SER:OG	1:B:4868:ASP:O	2.33	0.41
1:B:4943:LEU:O	1:B:4947:GLN:NE2	2.34	0.41
1:D:276:TRP:HZ3	1:D:346:CYS:SG	2.43	0.41
1:D:477:LEU:O	1:D:480:GLU:HG3	2.21	0.41
1:D:1160:ILE:HG13	1:D:1182:ILE:HD13	2.01	0.41
1:D:1786:LEU:HD12	1:D:1786:LEU:HA	1.91	0.41
1:D:1848:LEU:HD23	1:D:1848:LEU:HA	1.88	0.41
1:D:2377:LEU:HB2	1:D:2465:ASP:OD2	2.19	0.41
1:D:3112:LEU:HD11	1:D:3182:TYR:CE2	2.55	0.41
1:D:3354:LEU:HB2	1:D:3415:TYR:CE2	2.54	0.41
1:D:3412:LEU:O	1:D:3416:VAL:HG22	2.20	0.41
1:D:3590:GLU:CD	1:D:3590:GLU:N	2.75	0.41
1:D:3629:ARG:HE	1:D:3632:VAL:HG21	1.85	0.41
1:D:3812:VAL:O	1:D:3816:MET:HE2	2.20	0.41
1:C:39:ALA:O	1:C:64:ILE:HD11	2.20	0.41
1:C:125:ARG:HD2	1:C:125:ARG:O	2.20	0.41
1:C:332:GLU:OE1	1:C:332:GLU:N	2.52	0.41
1:C:462:GLU:OE2	1:C:462:GLU:N	2.38	0.41
1:C:484:LEU:O	1:C:488:LEU:HG	2.20	0.41
1:C:596:ASN:ND2	1:C:599:VAL:HG23	2.34	0.41
1:C:1089:TYR:HD2	1:C:1152:MET:SD	2.43	0.41
1:C:2155:LEU:HD12	1:C:2155:LEU:HA	1.76	0.41
1:C:2349:ASN:OD1	1:C:3849:ARG:NH2	2.53	0.41
1:C:2351:ASN:HB3	1:C:2355:ARG:NH2	2.35	0.41
1:C:2630:VAL:O	1:C:2633:LEU:HD22	2.20	0.41
1:C:2895:GLU:HG2	1:C:2895:GLU:H	1.70	0.41
1:C:3035:GLU:HG3	1:C:3038:MET:HE3	2.01	0.41
1:C:3105:LYS:O	1:C:3108:GLU:HG2	2.19	0.41
1:C:3232:LEU:HD13	1:C:3232:LEU:HA	1.84	0.41
1:C:4147:LEU:HA	1:C:4147:LEU:HD23	1.81	0.41
1:C:4204:GLN:O	1:C:4207:MET:HG2	2.19	0.41
1:A:305:CYS:SG	1:A:306:LYS:N	2.93	0.41
1:A:575:LEU:HA	1:A:575:LEU:HD12	1.76	0.41
1:A:1006:SER:C	1:A:1021:LEU:HD22	2.45	0.41
1:A:1079:LYS:NZ	1:A:1108:GLU:HA	2.36	0.41
1:A:1953:HIS:O	1:A:1957:SER:OG	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2325:PRO:HG3	1:A:2422:ILE:HG22	2.02	0.41
1:A:2332:LEU:HD23	1:A:2332:LEU:HA	1.95	0.41
1:A:2880:GLU:OE2	1:A:2884:ASN:ND2	2.50	0.41
1:A:3290:GLU:OE1	1:A:3308:THR:HA	2.20	0.41
1:A:3630:ARG:HE	1:A:3630:ARG:HB2	1.74	0.41
1:A:4095:LYS:HA	1:A:4098:ASP:OD2	2.19	0.41
1:A:4649:LEU:O	1:A:4652:LEU:HD12	2.21	0.41
2:H:79:ASP:OD2	2:H:79:ASP:C	2.62	0.41
2:G:67:SER:HB3	2:G:70:GLN:OE1	2.20	0.41
2:F:52:LYS:HB3	2:F:54:GLU:OE1	2.20	0.41
1:B:39:ALA:O	1:B:64:ILE:HD11	2.20	0.41
1:B:308:HIS:CD2	1:B:310:LYS:HB3	2.54	0.41
1:B:545:ASP:N	1:B:545:ASP:OD1	2.50	0.41
1:B:688:LEU:HD23	1:B:712:TYR:HD1	1.84	0.41
1:B:957:LYS:HA	1:B:957:LYS:HD3	1.81	0.41
1:B:1006:SER:C	1:B:1021:LEU:HD22	2.45	0.41
1:B:1252:HIS:CE1	1:B:1255:TYR:H	2.39	0.41
1:B:2010:LEU:HD11	1:B:3653:PHE:CE1	2.56	0.41
1:B:2012:PHE:HD1	1:B:3661:TRP:HZ2	1.68	0.41
1:B:3178:THR:C	1:B:3179:LYS:HD3	2.45	0.41
1:B:3391:GLU:HG3	1:B:3395:ARG:CZ	2.50	0.41
1:B:4563:ARG:HD2	1:B:4563:ARG:HA	1.82	0.41
1:B:4664:LEU:HD12	1:B:4664:LEU:HA	1.77	0.41
1:B:4963:ILE:HD11	1:B:5026:ASP:N	2.35	0.41
1:D:214:VAL:CG2	1:D:339:ILE:HB	2.50	0.41
1:D:462:GLU:OE2	1:D:462:GLU:N	2.38	0.41
1:D:683:ARG:HG2	1:D:707:VAL:O	2.20	0.41
1:D:840:VAL:HG13	1:D:1199:VAL:HG22	2.02	0.41
1:D:1585:LYS:O	1:D:1585:LYS:HD3	2.20	0.41
1:D:1716:ILE:CG2	1:D:1847:THR:HG21	2.50	0.41
1:D:1749:PRO:HA	1:D:1750:PRO:HD3	1.96	0.41
1:D:2116:LEU:O	1:D:2120:MET:HG2	2.19	0.41
1:D:2861:ASP:HB3	1:D:2928:LYS:HG3	2.02	0.41
1:D:2904:LEU:O	1:D:2906:VAL:HG22	2.21	0.41
1:D:2967:MET:O	1:D:2971:GLN:HG2	2.19	0.41
1:D:3005:LEU:O	1:D:3008:GLN:NE2	2.54	0.41
1:D:3202:PRO:C	1:D:3284:TRP:HH2	2.28	0.41
1:D:3269:VAL:HA	1:D:3273:THR:OG1	2.20	0.41
1:D:3392:LEU:HB3	1:D:3395:ARG:HH21	1.85	0.41
1:D:3566:SER:N	1:D:3569:LEU:HD12	2.35	0.41
1:D:3634:ALA:O	1:D:3637:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:LEU:HD12	1:C:37:LEU:HA	1.80	0.41
1:C:115:ARG:NE	1:C:399:GLN:HE21	2.17	0.41
1:C:790:ARG:HA	1:C:1627:ALA:HA	2.02	0.41
1:C:999:ASP:O	1:C:1003:GLN:HG3	2.19	0.41
1:C:1526:LEU:HD12	1:C:1527:MET:H	1.86	0.41
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.20	0.41
1:C:2423:MET:HE3	1:C:2498:HIS:HE1	1.80	0.41
1:C:2481:LYS:HZ2	1:C:2486:VAL:HG22	1.86	0.41
1:C:2761:TYR:HA	1:C:2764:GLU:HB2	2.02	0.41
1:C:3005:LEU:O	1:C:3008:GLN:NE2	2.54	0.41
1:C:3285:TRP:HA	1:C:3307:VAL:HB	2.02	0.41
1:C:3535:LEU:O	1:C:3538:THR:OG1	2.30	0.41
1:C:3667:HIS:C	1:C:3667:HIS:HD1	2.27	0.41
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.20	0.41
1:C:4041:ALA:O	1:C:4045:VAL:HG12	2.21	0.41
1:C:4067:LYS:HE3	1:C:4067:LYS:HB2	1.75	0.41
1:C:4183:ILE:HD12	1:C:5021:PHE:O	2.21	0.41
1:C:4649:LEU:O	1:C:4652:LEU:HD12	2.21	0.41
1:C:4827:LEU:HD12	1:C:4828:SER:N	2.36	0.41
1:A:16:THR:HA	1:A:69:LEU:CD1	2.50	0.41
1:A:110:ARG:HE	1:A:115:ARG:C	2.27	0.41
1:A:241:GLN:HB2	1:A:243:ARG:HE	1.86	0.41
1:A:308:HIS:O	1:A:308:HIS:CG	2.73	0.41
1:A:315:CYS:SG	1:A:349:GLN:HB3	2.60	0.41
1:A:484:LEU:O	1:A:488:LEU:HG	2.20	0.41
1:A:790:ARG:HA	1:A:1627:ALA:HA	2.02	0.41
1:A:887:ILE:HG12	1:A:959:TYR:CG	2.55	0.41
1:A:1012:ASP:CG	1:A:1014:PRO:HD2	2.45	0.41
1:A:1089:TYR:HD2	1:A:1152:MET:SD	2.43	0.41
1:A:1130:GLN:HG2	1:A:1132:TRP:CD1	2.55	0.41
1:A:1252:HIS:CE1	1:A:1255:TYR:H	2.39	0.41
1:A:2233:CYS:O	1:A:2236:LEU:N	2.53	0.41
1:A:2351:ASN:HB3	1:A:2355:ARG:NH2	2.35	0.41
1:A:2479:LEU:H	1:A:2479:LEU:HD22	1.85	0.41
1:A:2761:TYR:HA	1:A:2764:GLU:HB2	2.02	0.41
1:A:2889:LYS:HA	1:A:2892:GLN:HG2	2.02	0.41
1:A:3158:LEU:HD23	1:A:3158:LEU:H	1.85	0.41
1:A:3590:GLU:CD	1:A:3590:GLU:N	2.75	0.41
1:A:4101:LYS:HB2	1:B:4730:ASP:OD1	2.21	0.41
1:A:4126:GLU:H	1:A:4126:GLU:CD	2.29	0.41
1:A:4958:CYS:CB	1:A:4961:CYS:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5026:ASP:OD1	1:A:5027:CYS:N	2.52	0.41
2:F:5:GLU:HB3	2:F:73:LYS:HE3	2.02	0.41
1:B:477:LEU:O	1:B:480:GLU:HG3	2.20	0.41
1:B:3082:LYS:HE2	1:B:3082:LYS:HB2	1.80	0.41
1:B:3403:ARG:HA	1:B:3458:PHE:CZ	2.55	0.41
1:B:3410:PRO:O	1:B:3414:ARG:NH1	2.54	0.41
1:B:3454:GLU:HG3	1:B:3454:GLU:H	1.72	0.41
1:B:3478:MET:CE	1:C:1141:ARG:NH1	2.81	0.41
1:B:3622:LYS:HB2	1:B:3622:LYS:HE2	1.71	0.41
1:B:3634:ALA:O	1:B:3637:ARG:NH2	2.53	0.41
1:B:4006:ASP:OD2	1:B:4008:SER:OG	2.37	0.41
1:B:4184:MET:HE3	1:B:5021:PHE:HA	2.01	0.41
1:D:19:GLU:OE1	1:D:206:CYS:HB3	2.20	0.41
1:D:196:MET:SD	1:D:196:MET:N	2.88	0.41
1:D:664:PHE:HB3	1:D:811:CYS:SG	2.60	0.41
1:D:894:GLY:HA3	1:D:903:LEU:HD23	2.03	0.41
1:D:1089:TYR:HD2	1:D:1152:MET:SD	2.43	0.41
1:D:1130:GLN:HG2	1:D:1132:TRP:CD1	2.55	0.41
1:D:1229:ASN:ND2	1:D:1827:ARG:HG3	2.35	0.41
1:D:2224:ARG:HB2	1:D:2225:PHE:CD2	2.54	0.41
1:D:3290:GLU:OE1	1:D:3308:THR:HA	2.20	0.41
1:D:3465:ASN:C	1:D:3467:MET:H	2.27	0.41
1:D:4028:LEU:HG	1:D:4146:LEU:HD13	2.03	0.41
1:D:4827:LEU:HD12	1:D:4828:SER:N	2.36	0.41
1:C:407:THR:HG23	1:C:411:TYR:CE2	2.56	0.41
1:C:840:VAL:HG13	1:C:1199:VAL:HG22	2.02	0.41
1:C:1012:ASP:CG	1:C:1014:PRO:HD2	2.45	0.41
1:C:1252:HIS:CE1	1:C:1255:TYR:H	2.39	0.41
1:C:1954:ARG:NH1	1:C:2042:CYS:HA	2.36	0.41
1:C:1980:LEU:O	1:C:1984:PHE:HB3	2.20	0.41
1:C:2010:LEU:HD11	1:C:3653:PHE:CE1	2.56	0.41
1:C:2527:LEU:O	1:C:2531:ARG:HG2	2.20	0.41
1:C:2758:PHE:HB3	1:C:2809:ILE:HG21	2.01	0.41
1:C:3124:GLY:O	1:C:3127:GLN:HG3	2.20	0.41
1:C:3204:ALA:HB2	1:C:3284:TRP:CD2	2.55	0.41
1:C:3589:PRO:O	1:C:3593:VAL:HG13	2.20	0.41
1:C:4720:VAL:O	1:C:4724:VAL:HG23	2.20	0.41
1:C:4876:CYS:HB2	1:C:4882:CYS:HB2	1.37	0.41
1:A:172:VAL:HG12	1:A:178:ARG:C	2.45	0.41
1:A:207:SER:OG	1:A:208:CYS:N	2.53	0.41
1:A:603:LEU:HG	1:A:1669:LEU:CD1	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1021:LEU:O	1:A:1021:LEU:HD23	2.20	0.41
1:A:1229:ASN:ND2	1:A:1827:ARG:HG3	2.35	0.41
1:A:2377:LEU:HB2	1:A:2465:ASP:OD2	2.19	0.41
1:A:2765:LYS:HZ1	1:A:2856:ASN:N	2.19	0.41
1:A:2786:LYS:HE3	1:A:2786:LYS:HB3	1.86	0.41
1:A:3112:LEU:HD11	1:A:3182:TYR:CE2	2.55	0.41
1:A:3183:VAL:O	1:A:3187:ARG:HG3	2.21	0.41
1:A:3442:PHE:CE2	1:A:3605:HIS:HB3	2.55	0.41
1:A:3543:LYS:HD3	1:A:3543:LYS:N	2.35	0.41
1:A:3815:LYS:HB2	1:A:3816:MET:CE	2.50	0.41
1:A:4184:MET:HE3	1:A:5021:PHE:HA	2.01	0.41
1:B:276:TRP:HZ3	1:B:346:CYS:SG	2.43	0.41
1:B:1079:LYS:NZ	1:B:1108:GLU:HA	2.36	0.41
1:B:1265:ASP:OD2	1:B:1265:ASP:N	2.48	0.41
1:B:1568:LYS:CD	1:B:1574:PRO:HA	2.50	0.41
1:B:2644:LEU:HD23	1:B:2647:HIS:CE1	2.56	0.41
1:B:2761:TYR:HA	1:B:2764:GLU:HB2	2.02	0.41
1:B:3005:LEU:O	1:B:3008:GLN:NE2	2.54	0.41
1:B:3227:ARG:NH2	1:B:3231:GLY:O	2.54	0.41
1:B:3269:VAL:HA	1:B:3273:THR:OG1	2.20	0.41
1:B:3689:GLU:O	1:B:3693:LYS:N	2.52	0.41
1:B:3969:ILE:CD1	1:B:3977:GLN:HG2	2.49	0.41
1:B:4165:GLU:HA	1:B:4168:GLU:HG2	2.02	0.41
1:B:4184:MET:SD	1:B:4188:ARG:NH2	2.77	0.41
1:B:4835:LYS:O	1:B:4839:MET:SD	2.78	0.41
1:D:308:HIS:CD2	1:D:311:ALA:H	2.37	0.41
1:D:1011:GLN:HB3	1:D:1019:PRO:HD2	2.00	0.41
1:D:1012:ASP:CG	1:D:1014:PRO:HD2	2.45	0.41
1:D:1100:MET:HB3	1:D:1193:SER:O	2.20	0.41
1:D:1220:GLN:HA	1:C:3522:LEU:HD22	2.02	0.41
1:D:1259:ARG:HH12	1:D:1593:PRO:HA	1.85	0.41
1:D:1586:ASN:HD21	1:D:1588:ALA:HB3	1.85	0.41
1:D:1968:LYS:HE2	1:D:1968:LYS:HB2	1.80	0.41
1:D:2765:LYS:HZ1	1:D:2856:ASN:N	2.18	0.41
1:D:2770:LYS:HB3	1:D:2786:LYS:HZ2	1.84	0.41
1:D:3056:LEU:H	1:D:3056:LEU:HD12	1.86	0.41
1:D:3204:ALA:HB2	1:D:3284:TRP:CD2	2.55	0.41
1:D:3312:LEU:O	1:D:3345:ILE:HD11	2.21	0.41
1:D:3514:LEU:HA	1:D:3517:MET:HG2	2.02	0.41
1:D:3702:VAL:HG13	1:D:3778:MET:SD	2.60	0.41
1:D:4865:LYS:HB2	1:D:4875:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:418:LEU:HA	1:C:421:PHE:CZ	2.56	0.41
1:C:795:GLY:HA3	1:C:812:HIS:CE1	2.56	0.41
1:C:881:LEU:HA	1:C:884:LEU:HD13	2.03	0.41
1:C:981:GLN:O	1:C:985:VAL:HG13	2.19	0.41
1:C:1082:THR:HG21	1:C:1107:PRO:HG3	2.02	0.41
1:C:1585:LYS:O	1:C:1585:LYS:HD3	2.20	0.41
1:C:1954:ARG:HH12	1:C:2042:CYS:HA	1.86	0.41
1:C:2233:CYS:O	1:C:2236:LEU:N	2.53	0.41
1:C:2325:PRO:HG3	1:C:2422:ILE:HG22	2.02	0.41
1:C:3543:LYS:HD3	1:C:3543:LYS:N	2.35	0.41
1:C:3689:GLU:O	1:C:3693:LYS:N	2.52	0.41
1:C:4028:LEU:HG	1:C:4146:LEU:HD13	2.03	0.41
1:C:4835:LYS:O	1:C:4839:MET:SD	2.78	0.41
1:A:57:ASN:OD1	1:A:57:ASN:N	2.54	0.41
1:A:407:THR:HG23	1:A:411:TYR:CE2	2.56	0.41
1:A:817:PRO:C	1:A:1028:ASP:HB3	2.45	0.41
1:A:1954:ARG:NH1	1:A:2042:CYS:HA	2.36	0.41
1:A:3178:THR:C	1:A:3179:LYS:HD3	2.45	0.41
1:A:3403:ARG:HA	1:A:3458:PHE:CZ	2.55	0.41
1:A:3465:ASN:C	1:A:3467:MET:H	2.27	0.41
1:A:3750:GLU:CD	1:A:3750:GLU:N	2.79	0.41
1:A:4041:ALA:O	1:A:4045:VAL:HG12	2.21	0.41
1:A:4582:VAL:HG13	1:B:4856:PHE:CZ	2.55	0.41
1:A:4799:SER:HA	1:A:4812:HIS:HE1	1.86	0.41
2:H:71:ARG:HA	2:H:102:GLU:OE2	2.21	0.41
2:G:42:ARG:HB3	2:G:44:LYS:HZ1	1.86	0.41
2:G:105:LYS:HA	2:G:105:LYS:HD2	1.69	0.41
1:B:207:SER:OG	1:B:208:CYS:N	2.53	0.41
1:B:928:THR:HG22	1:B:988:LEU:HD11	2.02	0.41
1:B:953:THR:O	1:B:968:ALA:HB1	2.20	0.41
1:B:1259:ARG:HH12	1:B:1593:PRO:HA	1.85	0.41
1:B:1552:VAL:HB	1:B:1564:PHE:CZ	2.56	0.41
1:B:1954:ARG:NH1	1:B:2042:CYS:HA	2.36	0.41
1:B:1980:LEU:O	1:B:1984:PHE:HB3	2.20	0.41
1:B:2368:LEU:N	1:B:2374:SER:O	2.34	0.41
1:B:2441:HIS:CA	1:B:2444:GLN:HE21	2.30	0.41
1:B:2527:LEU:O	1:B:2531:ARG:HG2	2.20	0.41
1:B:3112:LEU:HD11	1:B:3182:TYR:CE2	2.55	0.41
1:B:3124:GLY:O	1:B:3127:GLN:HG3	2.21	0.41
1:B:3812:VAL:O	1:B:3816:MET:HE2	2.20	0.41
1:B:4796:MET:O	1:B:4800:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:LEU:HD12	1:D:180:LEU:HA	1.89	0.41
1:D:407:THR:HG23	1:D:411:TYR:CE2	2.56	0.41
1:D:645:ARG:HG3	1:D:646:PRO:O	2.20	0.41
1:D:790:ARG:HA	1:D:1627:ALA:HA	2.02	0.41
1:D:1079:LYS:NZ	1:D:1108:GLU:HA	2.36	0.41
1:D:1153:ILE:HD12	1:D:1153:ILE:HA	1.82	0.41
1:D:1427:ILE:HD12	1:D:1427:ILE:HA	1.89	0.41
1:D:1612:PHE:O	1:D:1614:GLN:NE2	2.44	0.41
1:D:1973:GLN:NE2	1:D:3642:TYR:CD2	2.89	0.41
1:D:3750:GLU:CD	1:D:3750:GLU:N	2.79	0.41
1:D:4031:LEU:HD23	1:D:4031:LEU:HA	1.88	0.41
1:D:4649:LEU:O	1:D:4652:LEU:HD12	2.21	0.41
1:C:19:GLU:OE1	1:C:206:CYS:HB3	2.20	0.41
1:C:196:MET:SD	1:C:196:MET:N	2.88	0.41
1:C:645:ARG:CZ	1:C:826:ILE:HD13	2.50	0.41
1:C:663:TYR:OH	1:C:665:GLU:OE2	2.34	0.41
1:C:894:GLY:HA3	1:C:903:LEU:HD23	2.03	0.41
1:C:953:THR:O	1:C:968:ALA:HB1	2.20	0.41
1:C:1023:PRO:HB3	1:C:1025:ARG:NH1	2.36	0.41
1:C:2686:LEU:HD22	1:C:2997:PHE:CD1	2.55	0.41
1:C:3596:VAL:O	1:C:3600:SER:OG	2.22	0.41
1:C:4003:LEU:HD21	1:C:4012:LEU:HD23	2.02	0.41
1:A:19:GLU:OE1	1:A:206:CYS:HB3	2.20	0.41
1:A:78:LEU:HA	1:A:81:MET:SD	2.61	0.41
1:A:645:ARG:HG3	1:A:646:PRO:O	2.20	0.41
1:A:3171:SER:O	1:A:3175:LEU:HG	2.20	0.41
1:A:3366:ARG:HH12	1:A:3370:GLY:HA3	1.85	0.41
1:A:3391:GLU:HG3	1:A:3395:ARG:CZ	2.50	0.41
1:A:3822:ASP:C	1:A:3824:LYS:HZ1	2.24	0.41
1:A:4664:LEU:HA	1:A:4664:LEU:HD12	1.77	0.41
1:A:4865:LYS:HB2	1:A:4875:LYS:NZ	2.35	0.41
2:F:73:LYS:HA	2:F:100:ASP:HA	2.03	0.41
2:F:82:TYR:OH	1:B:1784:ALA:O	2.35	0.41
1:B:180:LEU:O	1:B:198:THR:HB	2.21	0.41
1:B:881:LEU:HA	1:B:884:LEU:HD13	2.03	0.41
1:B:1294:PRO:HB3	1:B:1549:PHE:CZ	2.56	0.41
1:B:2155:LEU:HD22	1:B:2188:ASN:OD1	2.20	0.41
1:B:2233:CYS:O	1:B:2236:LEU:N	2.53	0.41
1:B:2479:LEU:HD22	1:B:2479:LEU:H	1.85	0.41
1:B:2963:LEU:HD23	1:B:2963:LEU:HA	1.84	0.41
1:B:3359:ILE:HG23	1:B:3434:LEU:HD21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3540:TYR:CZ	1:B:3601:ALA:HB2	2.56	0.41
1:B:3568:SER:HA	1:B:3571:TRP:NE1	2.36	0.41
1:B:3652:MET:HG2	1:B:3652:MET:H	1.60	0.41
1:B:4686:LEU:O	1:B:4690:GLU:N	2.54	0.41
1:D:16:THR:HA	1:D:69:LEU:CD1	2.50	0.41
1:D:41:GLY:O	1:D:45:ARG:NH2	2.47	0.41
1:D:78:LEU:HA	1:D:81:MET:SD	2.61	0.41
1:D:472:ARG:HA	1:D:472:ARG:HH11	1.85	0.41
1:D:891:TRP:CA	1:D:902:ARG:HE	2.32	0.41
1:D:919:ASN:OD1	1:D:922:LEU:HD22	2.21	0.41
1:D:960:MET:H	1:D:960:MET:CE	2.33	0.41
1:D:1270:LEU:CD1	1:D:1564:PHE:HB2	2.51	0.41
1:D:1526:LEU:HD12	1:D:1527:MET:H	1.86	0.41
1:D:2012:PHE:HD1	1:D:3661:TRP:HZ2	1.68	0.41
1:D:2095:GLN:OE1	1:D:2095:GLN:N	2.51	0.41
1:D:2797:PHE:CE1	1:D:2802:LYS:HG2	2.56	0.41
1:D:2977:LEU:HA	1:D:2980:VAL:HG22	2.03	0.41
1:D:3023:LYS:HE3	1:D:3025:LEU:HD23	2.03	0.41
1:D:3183:VAL:O	1:D:3187:ARG:HG3	2.21	0.41
1:D:3667:HIS:C	1:D:3667:HIS:ND1	2.78	0.41
1:D:3927:GLN:OE1	1:D:3988:ALA:HA	2.21	0.41
1:D:4247:ILE:O	1:D:4251:ILE:HG23	2.19	0.41
1:D:4835:LYS:O	1:D:4839:MET:SD	2.78	0.41
1:C:78:LEU:HA	1:C:81:MET:SD	2.61	0.41
1:C:426:ARG:NH1	1:C:426:ARG:HB3	2.36	0.41
1:C:935:LEU:HD23	1:C:1056:PRO:HG3	2.03	0.41
1:C:996:TRP:O	1:C:996:TRP:HD1	2.04	0.41
1:C:2471:SER:HA	1:C:2524:VAL:O	2.21	0.41
1:C:2694:GLU:HG2	1:C:2697:ARG:NE	2.33	0.41
1:C:2861:ASP:HB3	1:C:2928:LYS:HG3	2.02	0.41
1:C:3112:LEU:HD11	1:C:3182:TYR:CE2	2.55	0.41
1:C:3412:LEU:O	1:C:3416:VAL:HG22	2.20	0.41
1:C:3499:ARG:HE	1:C:3499:ARG:HB2	1.58	0.41
1:C:3566:SER:N	1:C:3569:LEU:HD12	2.35	0.41
1:C:3634:ALA:O	1:C:3637:ARG:NH2	2.53	0.41
1:C:3901:ASN:OD1	1:C:3904:ARG:NH2	2.47	0.41
1:C:4069:LYS:HD2	1:C:4069:LYS:HA	1.78	0.41
1:C:5026:ASP:OD1	1:C:5027:CYS:N	2.52	0.41
1:A:953:THR:O	1:A:968:ALA:HB1	2.20	0.41
1:A:1141:ARG:NH2	1:D:3478:MET:CE	2.75	0.41
1:A:1293:LEU:HB2	1:A:1579:MET:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2199:ARG:HA	1:A:2204:HIS:HE1	1.86	0.41
1:A:2871:LEU:HA	1:A:2874:MET:HE2	2.02	0.41
1:A:3359:ILE:HG23	1:A:3434:LEU:HD21	2.01	0.41
1:A:3392:LEU:HB3	1:A:3395:ARG:HH21	1.85	0.41
1:A:3412:LEU:O	1:A:3416:VAL:HG22	2.20	0.41
1:A:3527:PRO:HA	1:A:3530:GLN:HG3	2.02	0.41
1:A:3568:SER:HA	1:A:3571:TRP:NE1	2.36	0.41
1:A:3667:HIS:C	1:A:3667:HIS:ND1	2.78	0.41
1:A:3812:VAL:O	1:A:3816:MET:HE2	2.20	0.41
1:A:4023:MET:O	1:A:4027:LEU:HG	2.21	0.41
2:E:1:GLY:HA2	2:E:77:SER:HB3	2.02	0.41
2:E:82:TYR:HB3	2:E:86:GLY:HA2	2.03	0.41
2:G:53:GLN:HE21	2:G:57:ARG:HB2	1.85	0.41
1:B:19:GLU:OE1	1:B:206:CYS:HB3	2.20	0.41
1:B:20:VAL:HG13	1:B:202:MET:SD	2.61	0.41
1:B:315:CYS:SG	1:B:349:GLN:HB3	2.60	0.41
1:B:426:ARG:NH1	1:B:426:ARG:HB3	2.36	0.41
1:B:664:PHE:HB3	1:B:811:CYS:SG	2.60	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HD23	2.03	0.41
1:B:1023:PRO:HB3	1:B:1025:ARG:NH1	2.36	0.41
1:B:1131:ARG:NH1	1:B:1139:PHE:HB2	2.32	0.41
1:B:1585:LYS:HD3	1:B:1585:LYS:O	2.20	0.41
1:B:1640:HIS:NE2	1:B:1642:PRO:HA	2.36	0.41
1:B:2099:SER:HA	1:B:2124:LEU:HD12	2.03	0.41
1:B:2758:PHE:HB3	1:B:2809:ILE:HG21	2.02	0.41
1:B:3442:PHE:CE2	1:B:3605:HIS:HB3	2.55	0.41
1:B:3504:SER:N	1:B:3507:THR:OG1	2.28	0.41
1:D:39:ALA:O	1:D:64:ILE:HD11	2.20	0.41
1:D:241:GLN:HB2	1:D:243:ARG:HE	1.86	0.41
1:D:305:CYS:SG	1:D:306:LYS:N	2.93	0.41
1:D:717:ASP:HB2	1:D:722:TRP:HD1	1.84	0.41
1:D:1568:LYS:CD	1:D:1574:PRO:HA	2.50	0.41
1:D:1568:LYS:HG2	1:D:1589:PRO:HG3	2.03	0.41
1:D:2014:ASP:OD1	1:D:2014:ASP:N	2.53	0.41
1:D:2441:HIS:CA	1:D:2444:GLN:HE21	2.30	0.41
1:D:2530:MET:CE	1:D:2531:ARG:HD2	2.51	0.41
1:D:2608:MET:O	1:D:2612[B]:ARG:HG3	2.21	0.41
1:D:3285:TRP:HA	1:D:3307:VAL:HB	2.02	0.41
1:D:4023:MET:O	1:D:4027:LEU:HG	2.21	0.41
1:D:4041:ALA:O	1:D:4045:VAL:HG12	2.21	0.41
1:D:4165:GLU:HA	1:D:4168:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:296:ASP:OD1	1:C:296:ASP:N	2.47	0.41
1:C:315:CYS:SG	1:C:349:GLN:HB3	2.60	0.41
1:C:683:ARG:HG2	1:C:707:VAL:O	2.20	0.41
1:C:710:ASP:OD1	1:C:713:SER:OG	2.32	0.41
1:C:919:ASN:OD1	1:C:922:LEU:HD22	2.21	0.41
1:C:1160:ILE:HG13	1:C:1182:ILE:HD13	2.01	0.41
1:C:1481:GLY:O	1:C:1482:ASN:C	2.63	0.41
1:C:1568:LYS:CD	1:C:1574:PRO:HA	2.50	0.41
1:C:1747:LEU:HD23	1:C:1747:LEU:HA	1.90	0.41
1:C:1973:GLN:NE2	1:C:3642:TYR:CD2	2.89	0.41
1:C:2006:ILE:O	1:C:2010:LEU:HD23	2.20	0.41
1:C:2313:LEU:HG	1:C:2318:TYR:HB3	2.03	0.41
1:C:2763:HIS:CD2	1:C:2790:MET:HE2	2.56	0.41
1:C:2785:LEU:HD23	1:C:2785:LEU:HA	1.94	0.41
1:C:2952:GLU:HG3	1:C:2957:PHE:CD1	2.56	0.41
1:C:3187:ARG:HH21	1:C:3263:TYR:HH	1.68	0.41
1:C:3227:ARG:NH2	1:C:3231:GLY:O	2.54	0.41
1:C:3366:ARG:HH12	1:C:3370:GLY:HA3	1.85	0.41
1:C:3392:LEU:HB3	1:C:3395:ARG:HH21	1.85	0.41
1:C:3403:ARG:HA	1:C:3458:PHE:CZ	2.55	0.41
1:C:3442:PHE:CD1	1:C:3514:LEU:HD11	2.56	0.41
1:C:4072:VAL:HG11	1:C:4125:PHE:HB2	2.03	0.41
1:C:4796:MET:O	1:C:4800:LEU:HG	2.20	0.41
1:C:4958:CYS:HA	3:C:5301:ATP:N7	2.36	0.41
1:A:426:ARG:NH1	1:A:426:ARG:HB3	2.36	0.41
1:A:563:VAL:O	1:A:567:VAL:HG23	2.21	0.41
1:A:795:GLY:HA3	1:A:812:HIS:CE1	2.56	0.41
1:A:879:HIS:NE2	1:A:921:ASN:OD1	2.54	0.41
1:A:894:GLY:HA3	1:A:903:LEU:HD23	2.03	0.41
1:A:1449:TRP:CD1	1:A:1466:LEU:HD13	2.56	0.41
1:A:1496:TRP:CZ2	1:A:1498:GLY:HA3	2.56	0.41
1:A:1716:ILE:CG2	1:A:1847:THR:HG21	2.50	0.41
1:A:2014:ASP:OD1	1:A:2014:ASP:N	2.53	0.41
1:A:2181:SER:O	1:A:2185:ILE:HG13	2.21	0.41
1:A:2797:PHE:CE1	1:A:2802:LYS:HG2	2.56	0.41
1:A:3202:PRO:C	1:A:3284:TRP:HH2	2.28	0.41
1:A:3514:LEU:HA	1:A:3517:MET:HG2	2.02	0.41
1:A:3540:TYR:CZ	1:A:3601:ALA:HB2	2.56	0.41
1:A:3959:LYS:HG2	1:A:4022:ASP:OD2	2.21	0.41
1:A:3969:ILE:CD1	1:A:3977:GLN:HG2	2.49	0.41
1:A:4183:ILE:HD12	1:A:5021:PHE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4579:PHE:O	1:A:4632:LEU:HG	2.20	0.41
1:A:4718:LYS:HD3	1:A:4718:LYS:N	2.35	0.41
1:A:4843:LEU:HD22	1:D:4823:LEU:HD22	2.03	0.41
2:E:24:VAL:HG13	2:E:48:PHE:HE1	1.85	0.41
2:E:48:PHE:CE1	2:E:59:TRP:HH2	2.38	0.41
2:G:27:THR:HA	2:G:38:SER:HA	2.03	0.41
2:G:56:ILE:HD12	1:C:1783:VAL:O	2.21	0.41
2:G:57:ARG:NH2	2:G:80:TYR:CD1	2.89	0.41
1:B:57:ASN:OD1	1:B:57:ASN:N	2.54	0.41
1:B:78:LEU:HA	1:B:81:MET:SD	2.61	0.41
1:B:172:VAL:HG12	1:B:178:ARG:C	2.45	0.41
1:B:418:LEU:HA	1:B:421:PHE:CZ	2.56	0.41
1:B:603:LEU:HG	1:B:1669:LEU:CD1	2.49	0.41
1:B:993:HIS:ND1	1:B:1024:TYR:HD2	2.19	0.41
1:B:996:TRP:HD1	1:B:996:TRP:O	2.04	0.41
1:B:1007:TYR:N	1:B:1021:LEU:HD22	2.36	0.41
1:B:1228:ILE:HG22	1:B:1827:ARG:NH1	2.34	0.41
1:B:1449:TRP:CD1	1:B:1466:LEU:HD13	2.56	0.41
1:B:2313:LEU:HG	1:B:2318:TYR:HB3	2.03	0.41
1:B:2420:HIS:O	1:B:2424:SER:OG	2.29	0.41
1:B:2779:GLU:OE1	1:B:2779:GLU:N	2.51	0.41
1:B:3285:TRP:HA	1:B:3307:VAL:HB	2.02	0.41
1:B:3312:LEU:O	1:B:3345:ILE:HD11	2.21	0.41
1:B:3314:SER:O	1:B:3318:ASN:ND2	2.54	0.41
1:B:3412:LEU:O	1:B:3416:VAL:HG22	2.20	0.41
1:B:3575:LEU:HD21	1:C:1208:VAL:CG1	2.48	0.41
1:B:3721:LEU:HD12	1:B:3721:LEU:HA	1.93	0.41
1:B:3927:GLN:OE1	1:B:3988:ALA:HA	2.21	0.41
1:B:3959:LYS:HG2	1:B:4022:ASP:OD2	2.21	0.41
1:B:3985:LEU:O	1:B:3989:VAL:HG23	2.20	0.41
1:B:4579:PHE:O	1:B:4632:LEU:HG	2.20	0.41
1:B:4584:ASP:OD1	1:B:4584:ASP:N	2.50	0.41
1:B:4799:SER:HA	1:B:4812:HIS:HE1	1.86	0.41
1:D:110:ARG:HA	1:D:117:TYR:HA	2.03	0.41
1:D:207:SER:OG	1:D:208:CYS:N	2.53	0.41
1:D:846:LEU:HD11	1:D:1026:LEU:HD13	2.03	0.41
1:D:879:HIS:NE2	1:D:921:ASN:OD1	2.54	0.41
1:D:908:VAL:HG13	1:D:909:ASN:N	2.36	0.41
1:D:935:LEU:HD23	1:D:1056:PRO:HG3	2.03	0.41
1:D:996:TRP:HD1	1:D:996:TRP:O	2.04	0.41
1:D:1007:TYR:N	1:D:1021:LEU:HD22	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1023:PRO:HB3	1:D:1025:ARG:NH1	2.36	0.41
1:D:1496:TRP:CZ2	1:D:1498:GLY:HA3	2.56	0.41
1:D:1552:VAL:HB	1:D:1564:PHE:CZ	2.56	0.41
1:D:1694:LEU:O	1:D:1698:LEU:HG	2.20	0.41
1:D:1954:ARG:NH1	1:D:2042:CYS:HA	2.36	0.41
1:D:2142:TYR:CE2	1:D:2197:LEU:HB2	2.56	0.41
1:D:2199:ARG:HA	1:D:2204:HIS:HE1	1.86	0.41
1:D:2325:PRO:HG3	1:D:2422:ILE:HG22	2.02	0.41
1:D:2471:SER:HA	1:D:2524:VAL:O	2.21	0.41
1:D:2785:LEU:HD23	1:D:2785:LEU:HA	1.94	0.41
1:D:2915:GLU:HG3	1:D:2915:GLU:H	1.71	0.41
1:D:4090:LYS:H	1:D:4090:LYS:HG2	1.68	0.41
1:D:4181:ILE:HD12	1:D:4181:ILE:HA	1.80	0.41
1:D:4729:GLY:C	1:D:4734:ARG:HH12	2.29	0.41
1:D:4974:GLY:O	1:D:4977:THR:OG1	2.32	0.41
1:C:34:LYS:H	1:C:53:SER:HG	1.65	0.41
1:C:180:LEU:HD12	1:C:180:LEU:HA	1.89	0.41
1:C:415:ILE:HD11	1:C:490:CYS:SG	2.61	0.41
1:C:645:ARG:HG3	1:C:646:PRO:O	2.20	0.41
1:C:879:HIS:NE2	1:C:921:ASN:OD1	2.54	0.41
1:C:908:VAL:HG13	1:C:909:ASN:N	2.36	0.41
1:C:937:CYS:HB3	1:C:1056:PRO:HD3	2.03	0.41
1:C:993:HIS:ND1	1:C:1024:TYR:HD2	2.19	0.41
1:C:1496:TRP:CZ2	1:C:1498:GLY:HA3	2.56	0.41
1:C:2142:TYR:CZ	1:C:2197:LEU:HB2	2.56	0.41
1:C:2142:TYR:CE2	1:C:2197:LEU:HB2	2.56	0.41
1:C:2199:ARG:HA	1:C:2204:HIS:HE1	1.85	0.41
1:C:2326:CYS:O	1:C:2330:ARG:HG3	2.21	0.41
1:C:2332:LEU:HD23	1:C:2332:LEU:HA	1.95	0.41
1:C:2440:MET:SD	1:C:2440:MET:C	3.04	0.41
1:C:2538:THR:O	1:C:2542:SER:N	2.40	0.41
1:C:2786:LYS:HD2	1:C:2786:LYS:C	2.46	0.41
1:C:2904:LEU:O	1:C:2906:VAL:HG22	2.21	0.41
1:C:3056:LEU:HD12	1:C:3056:LEU:H	1.86	0.41
1:C:3410:PRO:O	1:C:3414:ARG:NH1	2.54	0.41
1:C:3540:TYR:CZ	1:C:3601:ALA:HB2	2.56	0.41
1:C:3647:HIS:CG	1:C:3648:ARG:N	2.89	0.41
1:C:3844:LEU:HD23	1:C:3844:LEU:HA	1.84	0.41
1:C:3927:GLN:OE1	1:C:3988:ALA:HA	2.21	0.41
1:C:4023:MET:O	1:C:4027:LEU:HG	2.21	0.41
1:C:4251:ILE:HD13	1:C:4664:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:ARG:HA	1:A:117:TYR:HA	2.03	0.41
1:A:111:HIS:CD2	1:A:114:SER:H	2.39	0.41
1:A:180:LEU:O	1:A:198:THR:HB	2.21	0.41
1:A:415:ILE:HD11	1:A:490:CYS:SG	2.61	0.41
1:A:897:ARG:HG3	1:A:904:HIS:CE1	2.55	0.41
1:A:1259:ARG:HH12	1:A:1593:PRO:HA	1.85	0.41
1:A:1585:LYS:HD3	1:A:1585:LYS:O	2.20	0.41
1:A:2005:GLN:HE22	1:A:3638:MET:CE	2.34	0.41
1:A:2010:LEU:HD11	1:A:3653:PHE:CE1	2.56	0.41
1:A:2294:ASP:OD1	1:A:2297:LYS:HE3	2.21	0.41
1:A:2919:ASP:OD1	1:A:2922:LYS:NZ	2.50	0.41
1:A:3566:SER:N	1:A:3569:LEU:HD12	2.35	0.41
1:A:4003:LEU:HD21	1:A:4012:LEU:HD23	2.02	0.41
2:H:67:SER:C	2:H:103:LEU:HD23	2.46	0.41
2:G:77:SER:O	2:G:81:ALA:N	2.50	0.41
1:B:935:LEU:HD23	1:B:1056:PRO:HG3	2.03	0.41
1:B:1973:GLN:NE2	1:B:3642:TYR:CD2	2.89	0.41
1:B:2010:LEU:HD11	1:B:3653:PHE:HE1	1.86	0.41
1:B:2142:TYR:CZ	1:B:2197:LEU:HB2	2.56	0.41
1:B:2608:MET:HE2	1:B:2643:LEU:HB3	2.03	0.41
1:B:2765:LYS:HZ1	1:B:2856:ASN:N	2.18	0.41
1:B:2786:LYS:HD2	1:B:2786:LYS:C	2.46	0.41
1:B:3158:LEU:H	1:B:3158:LEU:HD23	1.85	0.41
1:B:3442:PHE:CD1	1:B:3514:LEU:HD11	2.56	0.41
1:B:3647:HIS:CG	1:B:3648:ARG:N	2.89	0.41
1:B:3750:GLU:CD	1:B:3750:GLU:N	2.79	0.41
1:B:3805:LEU:HB3	1:B:3890:LEU:HB3	2.03	0.41
1:B:4060:LYS:HA	1:B:4060:LYS:HD2	1.82	0.41
1:B:4159:ARG:HB3	1:B:4163:PHE:CZ	2.56	0.41
1:B:4879:MET:HB3	1:B:4880:MET:CE	2.51	0.41
1:D:484:LEU:O	1:D:488:LEU:HG	2.20	0.41
1:D:1082:THR:HG21	1:D:1107:PRO:HG3	2.02	0.41
1:D:2230:THR:OG1	1:D:2268[A]:GLN:NE2	2.48	0.41
1:D:2268[B]:GLN:H	1:D:2268[B]:GLN:HG3	1.55	0.41
1:D:2294:ASP:OD1	1:D:2297:LYS:HE3	2.21	0.41
1:D:3815:LYS:HB2	1:D:3816:MET:CE	2.50	0.41
1:D:4060:LYS:HA	1:D:4060:LYS:HD2	1.83	0.41
1:D:4072:VAL:HG11	1:D:4125:PHE:HB2	2.03	0.41
1:D:4126:GLU:H	1:D:4126:GLU:CD	2.29	0.41
1:D:4686:LEU:O	1:D:4690:GLU:N	2.54	0.41
1:D:4708:THR:HA	1:D:4709:PRO:HD3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:241:GLN:HB2	1:C:243:ARG:HE	1.86	0.41
1:C:1153:ILE:CD1	1:C:1160:ILE:HG12	2.50	0.41
1:C:1511:HIS:ND1	1:C:1511:HIS:N	2.65	0.41
1:C:2336:ARG:HD2	1:C:2337:PHE:CD1	2.56	0.41
1:C:2361:PRO:C	1:C:2369[B]:ARG:HH22	2.29	0.41
1:C:2530:MET:CE	1:C:2531:ARG:HD2	2.51	0.41
1:C:2672:LEU:HD23	1:C:2672:LEU:HA	1.87	0.41
1:C:3158:LEU:H	1:C:3158:LEU:HD23	1.85	0.41
1:C:3269:VAL:HA	1:C:3273:THR:OG1	2.20	0.41
1:C:4865:LYS:HB2	1:C:4875:LYS:NZ	2.35	0.41
1:A:20:VAL:HG13	1:A:202:MET:SD	2.61	0.40
1:A:21:VAL:HG13	1:A:205:ILE:HG13	2.03	0.40
1:A:1619:ARG:HB3	1:A:1626:TRP:CE2	2.56	0.40
1:A:2012:PHE:HD1	1:A:3661:TRP:HZ2	1.68	0.40
1:A:2694:GLU:HG2	1:A:2697:ARG:NE	2.33	0.40
1:A:2861:ASP:HB3	1:A:2928:LYS:HG3	2.02	0.40
1:A:2888:ARG:NH2	1:A:2891:LYS:HD2	2.36	0.40
1:A:2952:GLU:HG3	1:A:2957:PHE:CD1	2.56	0.40
1:A:2977:LEU:HA	1:A:2980:VAL:HG22	2.03	0.40
1:A:3562:LYS:HD3	1:A:3562:LYS:HA	1.60	0.40
1:A:3670:GLU:HA	1:A:3673:MET:HB2	2.02	0.40
1:A:3985:LEU:O	1:A:3989:VAL:HG23	2.20	0.40
1:A:4587:PRO:HD3	1:A:4631:PHE:HD1	1.86	0.40
1:A:4729:GLY:C	1:A:4734:ARG:HH12	2.29	0.40
1:A:4827:LEU:HD12	1:A:4828:SER:N	2.36	0.40
1:A:4879:MET:HB3	1:A:4880:MET:CE	2.51	0.40
2:G:28:GLY:N	2:G:37:ASP:O	2.34	0.40
2:F:17:LYS:CD	2:F:20:GLN:HB2	2.51	0.40
1:B:645:ARG:HG3	1:B:646:PRO:O	2.20	0.40
1:B:908:VAL:HG13	1:B:909:ASN:N	2.36	0.40
1:B:919:ASN:OD1	1:B:922:LEU:HD22	2.21	0.40
1:B:1526:LEU:HD12	1:B:1527:MET:H	1.85	0.40
1:B:2336:ARG:HD2	1:B:2337:PHE:CD1	2.56	0.40
1:B:2361:PRO:C	1:B:2369[B]:ARG:HH22	2.29	0.40
1:B:2871:LEU:HA	1:B:2874:MET:HE2	2.02	0.40
1:B:2999:ALA:O	1:B:3003:LEU:HB2	2.20	0.40
1:B:3102:ASP:HA	1:B:3105:LYS:HD3	2.03	0.40
1:B:3670:GLU:HA	1:B:3673:MET:HB2	2.03	0.40
1:B:3966:THR:HG21	1:B:4025:VAL:HG12	2.04	0.40
1:B:4072:VAL:HG11	1:B:4125:PHE:HB2	2.03	0.40
1:D:247:TYR:HE1	1:D:376:ALA:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:ARG:HH21	1:D:328:LYS:HB2	1.86	0.40
1:D:308:HIS:HE2	1:D:310:LYS:HB3	1.85	0.40
1:D:700:GLU:O	1:D:705:ASN:ND2	2.30	0.40
1:D:993:HIS:ND1	1:D:1024:TYR:HD2	2.19	0.40
1:D:1954:ARG:HH12	1:D:2042:CYS:HA	1.86	0.40
1:D:2010:LEU:HD11	1:D:3653:PHE:CE1	2.56	0.40
1:D:2332:LEU:HD23	1:D:2332:LEU:HA	1.95	0.40
1:D:2557:ALA:C	1:D:2560:PRO:HD2	2.46	0.40
1:D:2889:LYS:HA	1:D:2892:GLN:HG2	2.02	0.40
1:D:3402:CYS:HG	1:D:3451:PHE:HE1	1.69	0.40
1:D:3410:PRO:O	1:D:3414:ARG:NH1	2.54	0.40
1:D:3527:PRO:HA	1:D:3530:GLN:HG3	2.02	0.40
1:D:3540:TYR:CZ	1:D:3601:ALA:HB2	2.56	0.40
1:D:3670:GLU:HA	1:D:3673:MET:HB2	2.03	0.40
1:D:3805:LEU:HB3	1:D:3890:LEU:HB3	2.03	0.40
1:D:4003:LEU:HD21	1:D:4012:LEU:HD23	2.02	0.40
1:D:4799:SER:HA	1:D:4812:HIS:HE1	1.86	0.40
1:D:4958:CYS:CB	1:D:4961:CYS:HB2	2.50	0.40
1:C:110:ARG:HA	1:C:117:TYR:HA	2.03	0.40
1:C:207:SER:OG	1:C:208:CYS:N	2.53	0.40
1:C:267:ILE:O	1:C:270:SER:OG	2.24	0.40
1:C:281:ARG:NH1	1:C:309:THR:OG1	2.54	0.40
1:C:603:LEU:HD11	1:C:621:ILE:HG12	2.02	0.40
1:C:891:TRP:CA	1:C:902:ARG:HE	2.32	0.40
1:C:1270:LEU:CD1	1:C:1564:PHE:HB2	2.51	0.40
1:C:2181:SER:O	1:C:2185:ILE:HG13	2.21	0.40
1:C:2294:ASP:OD1	1:C:2297:LYS:HE3	2.21	0.40
1:C:2977:LEU:HA	1:C:2980:VAL:HG22	2.03	0.40
1:C:3312:LEU:O	1:C:3345:ILE:HD11	2.21	0.40
1:C:3402:CYS:HG	1:C:3451:PHE:HE1	1.69	0.40
1:C:3815:LYS:HB2	1:C:3816:MET:CE	2.50	0.40
1:C:4059:LEU:HD13	1:C:4167:ALA:HB2	2.03	0.40
1:C:4799:SER:HA	1:C:4812:HIS:HE1	1.86	0.40
1:C:4999:ASP:OD1	1:C:5001:THR:HG23	2.22	0.40
1:A:125:ARG:HD2	1:A:125:ARG:O	2.20	0.40
1:A:489:ASN:HB3	1:A:493:ARG:NH2	2.37	0.40
1:A:710:ASP:OD1	1:A:713:SER:OG	2.32	0.40
1:A:717:ASP:HB2	1:A:722:TRP:HD1	1.84	0.40
1:A:846:LEU:HD11	1:A:1026:LEU:HD13	2.03	0.40
1:A:887:ILE:HG12	1:A:959:TYR:HB3	2.04	0.40
1:A:919:ASN:OD1	1:A:922:LEU:HD22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:996:TRP:O	1:A:996:TRP:HD1	2.04	0.40
1:A:1220:GLN:HG3	1:D:3522:LEU:HB3	2.01	0.40
1:A:1568:LYS:HG2	1:A:1589:PRO:HG3	2.03	0.40
1:A:2240:CYS:SG	1:A:2250:MET:HE1	2.62	0.40
1:A:2368:LEU:N	1:A:2374:SER:O	2.34	0.40
1:A:2530:MET:CE	1:A:2531:ARG:HD2	2.51	0.40
1:A:2905:LEU:HD23	1:A:2905:LEU:HA	1.82	0.40
1:A:3001:ILE:C	1:A:3004:PRO:HD2	2.46	0.40
1:A:3498:ARG:HB3	1:A:3499:ARG:H	1.51	0.40
1:A:3647:HIS:CG	1:A:3648:ARG:N	2.89	0.40
1:A:4147:LEU:HD13	1:A:4164:LEU:HD23	2.02	0.40
2:G:42:ARG:HH21	1:C:1691:GLN:HB3	1.86	0.40
2:F:73:LYS:HD2	2:F:73:LYS:C	2.46	0.40
2:F:77:SER:O	2:F:81:ALA:N	2.54	0.40
1:B:378:LEU:HD23	1:B:378:LEU:HA	1.86	0.40
1:B:758:ARG:HG2	1:B:763:PRO:HA	2.03	0.40
1:B:846:LEU:HD11	1:B:1026:LEU:HD13	2.03	0.40
1:B:925:SER:O	1:B:928:THR:OG1	2.30	0.40
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.20	0.40
1:B:2006:ILE:O	1:B:2010:LEU:HD23	2.20	0.40
1:B:2326:CYS:O	1:B:2330:ARG:HG3	2.21	0.40
1:B:2686:LEU:HD22	1:B:2997:PHE:CD1	2.55	0.40
1:B:3062:PRO:HA	1:B:3065:VAL:HG22	2.04	0.40
1:B:3815:LYS:HB2	1:B:3816:MET:CE	2.50	0.40
1:B:4028:LEU:HG	1:B:4146:LEU:HD13	2.03	0.40
1:B:4999:ASP:OD1	1:B:5001:THR:HG23	2.22	0.40
1:D:125:ARG:O	1:D:125:ARG:HD2	2.20	0.40
1:D:603:LEU:HD11	1:D:621:ILE:HG12	2.02	0.40
1:D:795:GLY:HA3	1:D:812:HIS:CE1	2.56	0.40
1:D:937:CYS:HB3	1:D:1056:PRO:HD3	2.03	0.40
1:D:1131:ARG:HD2	1:D:1178:ALA:HB1	2.03	0.40
1:D:1252:HIS:CE1	1:D:1255:TYR:H	2.39	0.40
1:D:1293:LEU:HB2	1:D:1579:MET:HE3	2.03	0.40
1:D:1433:TYR:CD2	1:D:1573:MET:HB2	2.57	0.40
1:D:1449:TRP:CD1	1:D:1466:LEU:HD13	2.56	0.40
1:D:1952:GLN:HG3	1:D:1956:GLU:OE1	2.21	0.40
1:D:2005:GLN:HE22	1:D:3638:MET:CE	2.34	0.40
1:D:2131:LEU:HD11	1:D:3662:ILE:HG13	2.04	0.40
1:D:2447:LYS:HZ2	1:D:2449:GLU:H	1.69	0.40
1:D:3378:GLN:HE21	1:D:3378:GLN:C	2.29	0.40
1:D:3560:GLN:OE1	1:D:3560:GLN:N	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4183:ILE:HD12	1:D:5021:PHE:O	2.21	0.40
1:D:4570:ALA:HA	1:D:4573:ILE:HD12	2.04	0.40
1:C:111:HIS:CD2	1:C:114:SER:H	2.39	0.40
1:C:234:SER:HG	1:C:238:SER:HG	1.64	0.40
1:C:664:PHE:HB3	1:C:811:CYS:SG	2.60	0.40
1:C:1007:TYR:N	1:C:1021:LEU:HD22	2.36	0.40
1:C:1229:ASN:ND2	1:C:1827:ARG:HG3	2.35	0.40
1:C:1703:LEU:HG	1:C:1704:PRO:HD2	2.03	0.40
1:C:2644:LEU:HD23	1:C:2647:HIS:CE1	2.56	0.40
1:C:3023:LYS:HE3	1:C:3025:LEU:HD23	2.03	0.40
1:C:3358:PHE:CE1	1:C:3362:ILE:HD11	2.57	0.40
1:C:3750:GLU:CD	1:C:3750:GLU:N	2.79	0.40
1:C:4989:MET:C	1:C:4989:MET:SD	3.05	0.40
1:A:281:ARG:NH1	1:A:309:THR:OG1	2.54	0.40
1:A:472:ARG:HA	1:A:472:ARG:HH11	1.85	0.40
1:A:534:ARG:NE	1:A:534:ARG:HA	2.37	0.40
1:A:881:LEU:HA	1:A:884:LEU:HD13	2.03	0.40
1:A:1007:TYR:N	1:A:1021:LEU:HD22	2.36	0.40
1:A:1082:THR:HG21	1:A:1107:PRO:HG3	2.02	0.40
1:A:1153:ILE:HA	1:A:1153:ILE:HD12	1.82	0.40
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.20	0.40
1:A:1952:GLN:HG3	1:A:1956:GLU:OE1	2.21	0.40
1:A:1954:ARG:HH12	1:A:2042:CYS:HA	1.86	0.40
1:A:2110:TYR:HB2	1:A:3695:PRO:HD2	2.04	0.40
1:A:2527:LEU:O	1:A:2531:ARG:HG2	2.20	0.40
1:A:2904:LEU:O	1:A:2906:VAL:HG22	2.21	0.40
1:A:3227:ARG:NH2	1:A:3231:GLY:O	2.54	0.40
1:A:3314:SER:O	1:A:3318:ASN:ND2	2.54	0.40
1:A:3563:VAL:HG21	1:A:3573:MET:HG2	2.03	0.40
1:A:3835:LEU:O	1:A:3838:THR:OG1	2.26	0.40
1:A:4095:LYS:HE2	1:A:4095:LYS:HB2	1.91	0.40
1:A:4681:LEU:HA	1:A:4685:GLY:HA2	2.03	0.40
2:H:27:THR:HA	2:H:38:SER:HA	2.02	0.40
1:B:241:GLN:HB2	1:B:243:ARG:HE	1.86	0.40
1:B:407:THR:HG23	1:B:411:TYR:CE2	2.56	0.40
1:B:937:CYS:HB3	1:B:1056:PRO:HD3	2.03	0.40
1:B:960:MET:H	1:B:960:MET:CE	2.33	0.40
1:B:1433:TYR:CD2	1:B:1573:MET:HB2	2.56	0.40
1:B:1481:GLY:O	1:B:1482:ASN:C	2.63	0.40
1:B:1619:ARG:HB3	1:B:1626:TRP:CE2	2.56	0.40
1:B:2325:PRO:HG3	1:B:2422:ILE:HG22	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2557:ALA:C	1:B:2560:PRO:HD2	2.46	0.40
1:B:2608:MET:O	1:B:2612[B]:ARG:HG3	2.21	0.40
1:B:2861:ASP:HB3	1:B:2928:LYS:HG3	2.02	0.40
1:B:2904:LEU:O	1:B:2906:VAL:HG22	2.20	0.40
1:B:2992:GLU:HA	1:B:2995:ILE:HB	2.02	0.40
1:B:3366:ARG:HH12	1:B:3370:GLY:HA3	1.85	0.40
1:B:3598:GLU:OE1	1:B:3598:GLU:N	2.55	0.40
1:B:3719:ASP:OD2	1:B:3722:TYR:N	2.49	0.40
1:B:3997:ALA:O	1:B:4001:MET:HE3	2.21	0.40
1:B:4587:PRO:HD3	1:B:4631:PHE:HD1	1.86	0.40
1:B:4649:LEU:O	1:B:4652:LEU:HD12	2.21	0.40
1:B:4884:LEU:HA	1:B:4887:MET:SD	2.62	0.40
1:B:4958:CYS:HA	3:B:5301:ATP:N7	2.36	0.40
1:D:57:ASN:OD1	1:D:57:ASN:N	2.54	0.40
1:D:289:ARG:HB3	1:D:302:VAL:O	2.22	0.40
1:D:534:ARG:HA	1:D:534:ARG:NE	2.37	0.40
1:D:816:LEU:HD11	1:D:851:PHE:CZ	2.57	0.40
1:D:952:LYS:NZ	1:D:968:ALA:O	2.35	0.40
1:D:976:ARG:HA	1:D:976:ARG:HD3	1.66	0.40
1:D:2326:CYS:O	1:D:2330:ARG:HG3	2.21	0.40
1:D:2336:ARG:HD2	1:D:2337:PHE:CD1	2.56	0.40
1:D:2361:PRO:C	1:D:2369[B]:ARG:HH22	2.29	0.40
1:D:2763:HIS:CD2	1:D:2790:MET:HE2	2.56	0.40
1:D:2785:LEU:O	1:D:2786:LYS:HB3	2.21	0.40
1:D:2888:ARG:NH2	1:D:2891:LYS:HD2	2.36	0.40
1:D:3062:PRO:HA	1:D:3065:VAL:HG22	2.04	0.40
1:D:3358:PHE:CE1	1:D:3362:ILE:HD11	2.57	0.40
1:D:3442:PHE:CD1	1:D:3514:LEU:HD11	2.56	0.40
1:C:16:THR:HA	1:C:69:LEU:CD1	2.50	0.40
1:C:180:LEU:O	1:C:198:THR:HB	2.21	0.40
1:C:275:ARG:O	1:C:278:GLN:HB2	2.22	0.40
1:C:305:CYS:SG	1:C:306:LYS:N	2.93	0.40
1:C:887:ILE:HG12	1:C:959:TYR:HB3	2.04	0.40
1:C:893:TYR:HB3	1:C:962:SER:HB3	2.04	0.40
1:C:1079:LYS:NZ	1:C:1108:GLU:HA	2.36	0.40
1:C:2005:GLN:HE22	1:C:3638:MET:CE	2.34	0.40
1:C:2012:PHE:CD1	1:C:3661:TRP:HZ2	2.40	0.40
1:C:2608:MET:HE2	1:C:2643:LEU:HB3	2.03	0.40
1:C:3552:PHE:HA	1:C:3555:ASN:ND2	2.37	0.40
1:C:3670:GLU:HA	1:C:3673:MET:HB2	2.03	0.40
1:C:3721:LEU:HD12	1:C:3721:LEU:HA	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4570:ALA:HA	1:C:4573:ILE:HD12	2.04	0.40
1:C:4580:TYR:CE1	1:C:4630:TYR:HB3	2.56	0.40
1:C:4686:LEU:O	1:C:4690:GLU:N	2.54	0.40
1:A:111:HIS:CE1	1:A:113:HIS:HB3	2.57	0.40
1:A:132:ALA:HA	1:A:193:ALA:O	2.22	0.40
1:A:349:GLN:HB2	1:A:356:TRP:CZ3	2.57	0.40
1:A:1526:LEU:HD12	1:A:1527:MET:H	1.85	0.40
1:A:1588:ALA:HA	1:A:1589:PRO:HD3	1.95	0.40
1:A:1753:LYS:HB3	1:A:1758:ARG:HG3	2.04	0.40
1:A:2131:LEU:HD11	1:A:3662:ILE:HG13	2.04	0.40
1:A:2142:TYR:CZ	1:A:2197:LEU:HB2	2.56	0.40
1:A:2189:LYS:NZ	1:A:2192:TYR:HB2	2.30	0.40
1:A:2268[A]:GLN:H	1:A:2268[A]:GLN:HG3	1.51	0.40
1:A:2471:SER:HA	1:A:2524:VAL:O	2.21	0.40
1:A:2644:LEU:HD23	1:A:2647:HIS:CE1	2.56	0.40
1:A:2954:ARG:NH1	1:A:3030:HIS:O	2.55	0.40
1:A:3102:ASP:HA	1:A:3105:LYS:HD3	2.03	0.40
1:A:3283:ARG:HA	1:A:3286:GLU:OE1	2.21	0.40
1:A:4072:VAL:HG11	1:A:4125:PHE:HB2	2.03	0.40
1:B:111:HIS:CD2	1:B:114:SER:H	2.39	0.40
1:B:111:HIS:CE1	1:B:113:HIS:HB3	2.57	0.40
1:B:124:SER:HB2	1:B:133:PHE:CE1	2.57	0.40
1:B:281:ARG:NH1	1:B:309:THR:OG1	2.54	0.40
1:B:534:ARG:NE	1:B:534:ARG:HA	2.37	0.40
1:B:795:GLY:HA3	1:B:812:HIS:CE1	2.56	0.40
1:B:879:HIS:NE2	1:B:921:ASN:OD1	2.54	0.40
1:B:895:PRO:HD2	1:B:903:LEU:HD23	2.03	0.40
1:B:996:TRP:HE1	1:B:1000:ARG:HH11	1.68	0.40
1:B:1468:LYS:HE3	1:B:1468:LYS:HB2	1.89	0.40
1:B:1753:LYS:HB3	1:B:1758:ARG:HG3	2.04	0.40
1:B:1954:ARG:HH12	1:B:2042:CYS:HA	1.86	0.40
1:B:3402:CYS:HG	1:B:3451:PHE:HE1	1.70	0.40
1:B:3654:LEU:HD23	1:B:3654:LEU:HA	1.88	0.40
1:B:4147:LEU:HD13	1:B:4164:LEU:HD23	2.02	0.40
1:B:4827:LEU:HD12	1:B:4828:SER:N	2.36	0.40
1:D:180:LEU:O	1:D:198:THR:HB	2.21	0.40
1:D:349:GLN:HB2	1:D:356:TRP:CZ3	2.57	0.40
1:D:426:ARG:NH1	1:D:426:ARG:HB3	2.36	0.40
1:D:457:GLU:OE1	1:D:457:GLU:N	2.54	0.40
1:D:575:LEU:HD12	1:D:575:LEU:HA	1.76	0.40
1:D:1679:ASN:ND2	1:D:1797:ARG:O	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1753:LYS:HB3	1:D:1758:ARG:HG3	2.04	0.40
1:D:2608:MET:HE2	1:D:2643:LEU:HB3	2.03	0.40
1:D:2644:LEU:HD23	1:D:2647:HIS:CE1	2.56	0.40
1:D:3227:ARG:NH2	1:D:3231:GLY:O	2.54	0.40
1:D:3598:GLU:OE1	1:D:3598:GLU:N	2.55	0.40
1:D:3934:TYR:O	1:D:3938:SER:HB3	2.22	0.40
1:D:4249:ALA:O	1:D:4252:SER:OG	2.29	0.40
1:D:4681:LEU:HA	1:D:4685:GLY:HA2	2.03	0.40
1:D:4999:ASP:OD1	1:D:5001:THR:HG23	2.21	0.40
1:C:23:GLN:HB3	1:C:34:LYS:HZ3	1.86	0.40
1:C:132:ALA:HA	1:C:193:ALA:O	2.22	0.40
1:C:247:TYR:HE1	1:C:376:ALA:HA	1.86	0.40
1:C:275:ARG:HH21	1:C:328:LYS:HB2	1.86	0.40
1:C:308:HIS:O	1:C:308:HIS:CG	2.73	0.40
1:C:349:GLN:HB2	1:C:356:TRP:CZ3	2.57	0.40
1:C:477:LEU:O	1:C:480:GLU:HG3	2.20	0.40
1:C:534:ARG:HA	1:C:534:ARG:NE	2.37	0.40
1:C:699:GLY:N	1:C:1647:CYS:SG	2.84	0.40
1:C:846:LEU:HD11	1:C:1026:LEU:HD13	2.02	0.40
1:C:1131:ARG:HD2	1:C:1178:ALA:HB1	2.03	0.40
1:C:1552:VAL:HB	1:C:1564:PHE:CZ	2.56	0.40
1:C:1640:HIS:NE2	1:C:1642:PRO:HA	2.36	0.40
1:C:1719:HIS:CE1	1:C:1802:ILE:HD11	2.57	0.40
1:C:1952:GLN:HG3	1:C:1956:GLU:OE1	2.21	0.40
1:C:2099:SER:HA	1:C:2124:LEU:HD12	2.03	0.40
1:C:2110:TYR:HB2	1:C:3695:PRO:HD2	2.03	0.40
1:C:2765:LYS:HZ1	1:C:2856:ASN:N	2.18	0.40
1:C:3754:GLU:CD	1:C:4718:LYS:HG2	2.47	0.40
1:C:3812:VAL:O	1:C:3816:MET:HE2	2.20	0.40
1:C:3937:TYR:CE2	1:C:3943:ILE:HG23	2.57	0.40
1:C:3966:THR:HG21	1:C:4025:VAL:HG12	2.03	0.40
1:C:4729:GLY:C	1:C:4734:ARG:HH12	2.29	0.40
1:A:103:TYR:HB2	1:A:161:GLU:H	1.87	0.40
1:A:308:HIS:CD2	1:A:311:ALA:H	2.38	0.40
1:A:418:LEU:HA	1:A:421:PHE:CZ	2.56	0.40
1:A:577:ILE:H	1:A:577:ILE:HG12	1.75	0.40
1:A:583:ILE:HG13	1:A:583:ILE:H	1.65	0.40
1:A:1045:THR:HG22	1:A:1049:TYR:CZ	2.57	0.40
1:A:1105:ALA:N	1:A:1189:LEU:O	2.39	0.40
1:A:1270:LEU:CD1	1:A:1564:PHE:HB2	2.51	0.40
1:A:1848:LEU:HD23	1:A:1848:LEU:HA	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2010:LEU:HD11	1:A:3653:PHE:HE1	1.86	0.40
1:A:2155:LEU:HD22	1:A:2188:ASN:OD1	2.20	0.40
1:A:2478:THR:O	1:A:2486:VAL:N	2.41	0.40
1:A:2481:LYS:HZ2	1:A:2486:VAL:HG22	1.87	0.40
1:A:3056:LEU:H	1:A:3056:LEU:HD12	1.86	0.40
1:A:3144:PHE:HB2	1:A:3196:ARG:HB3	2.03	0.40
1:A:3702:VAL:HG11	1:A:3773:ARG:HB3	2.04	0.40
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	2.03	0.40
1:A:4037:ASN:ND2	1:A:5035:GLN:HE22	2.19	0.40
1:A:4999:ASP:OD1	1:A:5001:THR:HG23	2.22	0.40
2:E:67:SER:HB3	2:E:70:GLN:OE1	2.22	0.40
2:G:100:ASP:OD1	2:G:100:ASP:N	2.55	0.40
1:B:110:ARG:HA	1:B:117:TYR:HA	2.03	0.40
1:B:305:CYS:SG	1:B:306:LYS:N	2.93	0.40
1:B:563:VAL:O	1:B:567:VAL:HG23	2.21	0.40
1:B:1270:LEU:CD1	1:B:1564:PHE:HB2	2.51	0.40
1:B:2440:MET:SD	1:B:2440:MET:C	3.04	0.40
1:B:2763:HIS:CD2	1:B:2790:MET:HE2	2.56	0.40
1:B:2825:LYS:NZ	1:B:2931:GLN:HA	2.37	0.40
1:B:2825:LYS:HZ1	1:B:2931:GLN:HA	1.87	0.40
1:B:3283:ARG:HA	1:B:3286:GLU:OE1	2.21	0.40
1:B:3355:HIS:HA	1:B:3359:ILE:CD1	2.52	0.40
1:B:3754:GLU:CD	1:B:4718:LYS:HG2	2.47	0.40
1:B:4760:PRO:HA	1:B:4761:PRO:HD3	1.94	0.40
1:D:132:ALA:HA	1:D:193:ALA:O	2.22	0.40
1:D:563:VAL:O	1:D:567:VAL:HG23	2.21	0.40
1:D:893:TYR:HB3	1:D:962:SER:HB3	2.04	0.40
1:D:1251:GLU:OE1	1:D:1251:GLU:N	2.34	0.40
1:D:1619:ARG:HB3	1:D:1626:TRP:CE2	2.56	0.40
1:D:2012:PHE:CD1	1:D:3661:TRP:HZ2	2.40	0.40
1:D:2099:SER:HA	1:D:2124:LEU:HD12	2.03	0.40
1:D:2313:LEU:HG	1:D:2318:TYR:HB3	2.03	0.40
1:D:2321:ILE:HG12	1:D:2322:GLY:N	2.37	0.40
1:D:2479:LEU:HD22	1:D:2479:LEU:H	1.85	0.40
1:D:3552:PHE:HA	1:D:3555:ASN:ND2	2.37	0.40
1:D:4209:GLN:NE2	1:D:4244:GLU:OE1	2.52	0.40
1:D:4958:CYS:HA	3:D:5301:ATP:N7	2.36	0.40
1:D:4989:MET:C	1:D:4989:MET:SD	3.05	0.40
1:C:103:TYR:HB2	1:C:161:GLU:H	1.87	0.40
1:C:266:ARG:HD2	1:C:268:SER:O	2.22	0.40
1:C:457:GLU:OE1	1:C:457:GLU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:743:VAL:O	1:C:759:ILE:HD12	2.22	0.40
1:C:895:PRO:HD2	1:C:903:LEU:HD23	2.03	0.40
1:C:1159:THR:HG22	1:C:1180:ARG:HA	2.03	0.40
1:C:1205:GLY:HA3	1:C:1225:PRO:HB3	2.04	0.40
1:C:1293:LEU:HB2	1:C:1579:MET:HE3	2.03	0.40
1:C:1427:ILE:HD12	1:C:1427:ILE:HA	1.89	0.40
1:C:1753:LYS:HB3	1:C:1758:ARG:HG3	2.04	0.40
1:C:1810:LYS:HE3	1:C:1810:LYS:HB2	1.69	0.40
1:C:2095:GLN:HB3	1:C:2127:GLN:HB3	2.04	0.40
1:C:2420:HIS:O	1:C:2424:SER:OG	2.29	0.40
1:C:3283:ARG:HA	1:C:3286:GLU:OE1	2.20	0.40
1:C:3663:LEU:HD23	1:C:3663:LEU:HA	1.90	0.40
1:C:3997:ALA:O	1:C:4001:MET:HE3	2.21	0.40
1:C:4159:ARG:HB3	1:C:4163:PHE:CZ	2.56	0.40
1:C:4165:GLU:HA	1:C:4168:GLU:HG2	2.02	0.40
1:C:4543:GLU:H	1:C:4543:GLU:CD	2.24	0.40
1:C:4796:MET:O	1:C:4799:SER:OG	2.36	0.40
1:C:4974:GLY:O	1:C:4977:THR:OG1	2.32	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48	83
1	B	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48	83
1	C	4385/5037 (87%)	4249 (97%)	130 (3%)	6 (0%)	48	83
1	D	4385/5037 (87%)	4250 (97%)	129 (3%)	6 (0%)	48	83
2	E	105/108 (97%)	97 (92%)	8 (8%)	0	100	100
2	F	105/108 (97%)	102 (97%)	3 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
All	All	17960/20580 (87%)	17404 (97%)	532 (3%)	24 (0%)	50	83

All (24) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	908	VAL
1	A	3300	ALA
1	A	4711	PHE
1	B	908	VAL
1	B	3300	ALA
1	B	4711	PHE
1	D	908	VAL
1	D	3300	ALA
1	D	4711	PHE
1	C	908	VAL
1	C	3300	ALA
1	C	4711	PHE
1	A	55	ALA
1	B	55	ALA
1	D	55	ALA
1	C	55	ALA
1	A	2702	CYS
1	B	2702	CYS
1	D	2702	CYS
1	C	2702	CYS
1	A	1930	LYS
1	B	1930	LYS
1	D	1930	LYS
1	C	1930	LYS

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	3836/4276 (90%)	3747 (98%)	89 (2%)	45	64
1	B	3836/4276 (90%)	3748 (98%)	88 (2%)	45	64
1	C	3836/4276 (90%)	3750 (98%)	86 (2%)	47	65
1	D	3836/4276 (90%)	3748 (98%)	88 (2%)	45	64
2	E	89/90 (99%)	87 (98%)	2 (2%)	47	65
2	F	89/90 (99%)	85 (96%)	4 (4%)	23	46
2	G	89/90 (99%)	85 (96%)	4 (4%)	23	46
2	H	89/90 (99%)	83 (93%)	6 (7%)	13	34
All	All	15700/17464 (90%)	15333 (98%)	367 (2%)	47	64

All (367) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	58	VAL
1	A	134	ASP
1	A	150	MET
1	A	172	VAL
1	A	173	SER
1	A	243	ARG
1	A	246	TYR
1	A	294	THR
1	A	312	THR
1	A	514	SER
1	A	649	PHE
1	A	730	VAL
1	A	850	ASP
1	A	881	LEU
1	A	999	ASP
1	A	1018	ASN
1	A	1022	VAL
1	A	1172	ASP
1	A	1212	ARG
1	A	1231[A]	GLN
1	A	1231[B]	GLN
1	A	1422	ASP
1	A	1463	ASN
1	A	1465	ASP
1	A	1485	SER
1	A	1508	ARG
1	A	1573	MET

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Mol	Chain	Res	Type
1	A	1619	ARG
1	A	1676	LEU
1	A	1730	MET
1	A	1752	ARG
1	A	1812	LEU
1	A	2093	SER
1	A	2227	LYS
1	A	2233	CYS
1	A	2243	SER
1	A	2256	TYR
1	A	2267	MET
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2313	LEU
1	A	2342	ASN
1	A	2369[A]	ARG
1	A	2369[B]	ARG
1	A	2442	LEU
1	A	2443	ILE
1	A	2461	VAL
1	A	2490	MET
1	A	2517	PHE
1	A	2577	ILE
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2634	ASN
1	A	2647	HIS
1	A	2667	THR
1	A	2683	PHE
1	A	2747	ILE
1	A	2782	ASP
1	A	2870[A]	GLU
1	A	2870[B]	GLU
1	A	2937	VAL
1	A	3078	ARG
1	A	3131	TYR
1	A	3155	ASP
1	A	3161	VAL
1	A	3181	THR
1	A	3225	ARG
1	A	3232	LEU
1	A	3367	LYS

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Mol	Chain	Res	Type
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3446	SER
1	A	3531	ASP
1	A	3543	LYS
1	A	3558	HIS
1	A	3672	ARG
1	A	3753	PHE
1	A	3790	THR
1	A	3859	VAL
1	A	3934	TYR
1	A	3955	MET
1	A	4104	THR
1	A	4239	GLU
1	A	4662	ASN
1	A	4684	ASP
1	A	4786	ASP
1	A	4803	HIS
1	A	4807	PHE
1	A	4913	ARG
2	E	6	THR
2	E	25	HIS
2	H	6	THR
2	H	27	THR
2	H	38	SER
2	H	61	GLU
2	H	98	VAL
2	H	102	GLU
2	G	2	VAL
2	G	6	THR
2	G	55	VAL
2	G	104	LEU
2	F	2	VAL
2	F	25	HIS
2	F	61	GLU
2	F	85	THR
1	B	58	VAL
1	B	134	ASP
1	B	150	MET
1	B	172	VAL
1	B	173	SER
1	B	211	GLU

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Mol	Chain	Res	Type
1	B	243	ARG
1	B	246	TYR
1	B	294	THR
1	B	312	THR
1	B	514	SER
1	B	649	PHE
1	B	730	VAL
1	B	850	ASP
1	B	881	LEU
1	B	999	ASP
1	B	1018	ASN
1	B	1022	VAL
1	B	1172	ASP
1	B	1212	ARG
1	B	1231[A]	GLN
1	B	1231[B]	GLN
1	B	1422	ASP
1	B	1463	ASN
1	B	1465	ASP
1	B	1485	SER
1	B	1508	ARG
1	B	1573	MET
1	B	1619	ARG
1	B	1676	LEU
1	B	1752	ARG
1	B	1812	LEU
1	B	2093	SER
1	B	2227	LYS
1	B	2233	CYS
1	B	2243	SER
1	B	2256	TYR
1	B	2267	MET
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2313	LEU
1	B	2342	ASN
1	B	2369[A]	ARG
1	B	2369[B]	ARG
1	B	2442	LEU
1	B	2461	VAL
1	B	2490	MET
1	B	2517	PHE

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Mol	Chain	Res	Type
1	B	2577	ILE
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2634	ASN
1	B	2647	HIS
1	B	2667	THR
1	B	2683	PHE
1	B	2747	ILE
1	B	2782	ASP
1	B	2870[A]	GLU
1	B	2870[B]	GLU
1	B	2937	VAL
1	B	3078	ARG
1	B	3131	TYR
1	B	3155	ASP
1	B	3161	VAL
1	B	3181	THR
1	B	3225	ARG
1	B	3232	LEU
1	B	3367	LYS
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3446	SER
1	B	3531	ASP
1	B	3543	LYS
1	B	3558	HIS
1	B	3672	ARG
1	B	3753	PHE
1	B	3790	THR
1	B	3859	VAL
1	B	3934	TYR
1	B	3955	MET
1	B	4104	THR
1	B	4239	GLU
1	B	4662	ASN
1	B	4684	ASP
1	B	4786	ASP
1	B	4803	HIS
1	B	4807	PHE
1	B	4913	ARG
1	D	58	VAL
1	D	134	ASP

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Mol	Chain	Res	Type
1	D	150	MET
1	D	172	VAL
1	D	173	SER
1	D	243	ARG
1	D	246	TYR
1	D	294	THR
1	D	312	THR
1	D	514	SER
1	D	649	PHE
1	D	730	VAL
1	D	850	ASP
1	D	881	LEU
1	D	999	ASP
1	D	1018	ASN
1	D	1022	VAL
1	D	1172	ASP
1	D	1212	ARG
1	D	1231[A]	GLN
1	D	1231[B]	GLN
1	D	1422	ASP
1	D	1463	ASN
1	D	1465	ASP
1	D	1485	SER
1	D	1508	ARG
1	D	1573	MET
1	D	1619	ARG
1	D	1676	LEU
1	D	1730	MET
1	D	1752	ARG
1	D	1812	LEU
1	D	2093	SER
1	D	2227	LYS
1	D	2233	CYS
1	D	2243	SER
1	D	2256	TYR
1	D	2267	MET
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2313	LEU
1	D	2342	ASN
1	D	2369[A]	ARG
1	D	2369[B]	ARG

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Mol	Chain	Res	Type
1	D	2442	LEU
1	D	2461	VAL
1	D	2490	MET
1	D	2517	PHE
1	D	2577	ILE
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2634	ASN
1	D	2647	HIS
1	D	2667	THR
1	D	2683	PHE
1	D	2747	ILE
1	D	2782	ASP
1	D	2870[A]	GLU
1	D	2870[B]	GLU
1	D	2937	VAL
1	D	3014	CYS
1	D	3078	ARG
1	D	3131	TYR
1	D	3155	ASP
1	D	3161	VAL
1	D	3181	THR
1	D	3225	ARG
1	D	3232	LEU
1	D	3367	LYS
1	D	3422[A]	HIS
1	D	3422[B]	HIS
1	D	3446	SER
1	D	3531	ASP
1	D	3543	LYS
1	D	3558	HIS
1	D	3672	ARG
1	D	3753	PHE
1	D	3790	THR
1	D	3859	VAL
1	D	3934	TYR
1	D	3955	MET
1	D	4239	GLU
1	D	4662	ASN
1	D	4684	ASP
1	D	4786	ASP
1	D	4803	HIS

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Mol	Chain	Res	Type
1	D	4807	PHE
1	D	4913	ARG
1	C	58	VAL
1	C	134	ASP
1	C	150	MET
1	C	172	VAL
1	C	173	SER
1	C	243	ARG
1	C	246	TYR
1	C	312	THR
1	C	514	SER
1	C	649	PHE
1	C	730	VAL
1	C	850	ASP
1	C	881	LEU
1	C	999	ASP
1	C	1018	ASN
1	C	1022	VAL
1	C	1172	ASP
1	C	1212	ARG
1	C	1231[A]	GLN
1	C	1231[B]	GLN
1	C	1422	ASP
1	C	1463	ASN
1	C	1465	ASP
1	C	1485	SER
1	C	1508	ARG
1	C	1573	MET
1	C	1619	ARG
1	C	1676	LEU
1	C	1752	ARG
1	C	1812	LEU
1	C	2093	SER
1	C	2227	LYS
1	C	2233	CYS
1	C	2243	SER
1	C	2256	TYR
1	C	2267	MET
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2313	LEU
1	C	2342	ASN

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Mol	Chain	Res	Type
1	C	2369[A]	ARG
1	C	2369[B]	ARG
1	C	2442	LEU
1	C	2443	ILE
1	C	2461	VAL
1	C	2490	MET
1	C	2517	PHE
1	C	2577	ILE
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2634	ASN
1	C	2647	HIS
1	C	2667	THR
1	C	2683	PHE
1	C	2747	ILE
1	C	2782	ASP
1	C	2870[A]	GLU
1	C	2870[B]	GLU
1	C	2937	VAL
1	C	3078	ARG
1	C	3131	TYR
1	C	3155	ASP
1	C	3161	VAL
1	C	3181	THR
1	C	3225	ARG
1	C	3232	LEU
1	C	3367	LYS
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3446	SER
1	C	3543	LYS
1	C	3558	HIS
1	C	3672	ARG
1	C	3753	PHE
1	C	3790	THR
1	C	3859	VAL
1	C	3934	TYR
1	C	3955	MET
1	C	4104	THR
1	C	4239	GLU
1	C	4662	ASN
1	C	4684	ASP

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Mol	Chain	Res	Type
1	C	4786	ASP
1	C	4803	HIS
1	C	4807	PHE
1	C	4913	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (275) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	138	GLN
1	A	218	HIS
1	A	308	HIS
1	A	479	GLN
1	A	597	HIS
1	A	634	GLN
1	A	658	GLN
1	A	681	HIS
1	A	900	ASN
1	A	909	ASN
1	A	919	ASN
1	A	991	ASN
1	A	1003	GLN
1	A	1065	ASN
1	A	1066	GLN
1	A	1206	GLN
1	A	1252	HIS
1	A	1254	HIS
1	A	1505	GLN
1	A	1506	GLN
1	A	1586	ASN
1	A	1631	GLN
1	A	1702	HIS
1	A	1719	HIS
1	A	1837	GLN
1	A	1861	GLN
1	A	2003	GLN
1	A	2005	GLN
1	A	2007	ASN
1	A	2029	GLN
1	A	2107	GLN
1	A	2176	ASN
1	A	2180	GLN
1	A	2260	ASN

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Mol	Chain	Res	Type
1	A	2417	HIS
1	A	2444	GLN
1	A	2514	ASN
1	A	2599	GLN
1	A	2646	ASN
1	A	2663	ASN
1	A	2756	ASN
1	A	2774	ASN
1	A	2881	ASN
1	A	2884	ASN
1	A	2902	HIS
1	A	3008	GLN
1	A	3146	HIS
1	A	3149	GLN
1	A	3180	ASN
1	A	3211	ASN
1	A	3234	ASN
1	A	3318	ASN
1	A	3325	ASN
1	A	3555	ASN
1	A	3734	HIS
1	A	3837	GLN
1	A	3860	ASN
1	A	3870	ASN
1	A	3927	GLN
1	A	3970	GLN
1	A	3998	HIS
1	A	4009	GLN
1	A	4037	ASN
1	A	4078	GLN
1	A	4162	ASN
1	A	4216	GLN
1	A	4728	HIS
1	A	4754	ASN
1	A	4978	HIS
2	E	53	GLN
2	E	70	GLN
2	G	25	HIS
2	G	53	GLN
2	F	87	HIS
1	B	138	GLN
1	B	218	HIS

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Mol	Chain	Res	Type
1	B	308	HIS
1	B	479	GLN
1	B	495	ASN
1	B	597	HIS
1	B	634	GLN
1	B	658	GLN
1	B	681	HIS
1	B	919	ASN
1	B	963	ASN
1	B	991	ASN
1	B	1003	GLN
1	B	1201	HIS
1	B	1206	GLN
1	B	1252	HIS
1	B	1254	HIS
1	B	1505	GLN
1	B	1506	GLN
1	B	1586	ASN
1	B	1631	GLN
1	B	1702	HIS
1	B	1719	HIS
1	B	1837	GLN
1	B	2003	GLN
1	B	2005	GLN
1	B	2007	ASN
1	B	2029	GLN
1	B	2107	GLN
1	B	2176	ASN
1	B	2180	GLN
1	B	2260	ASN
1	B	2417	HIS
1	B	2444	GLN
1	B	2514	ASN
1	B	2599	GLN
1	B	2646	ASN
1	B	2663	ASN
1	B	2756	ASN
1	B	2773	ASN
1	B	2774	ASN
1	B	2877	GLN
1	B	2881	ASN
1	B	2884	ASN

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Mol	Chain	Res	Type
1	B	2902	HIS
1	B	3008	GLN
1	B	3052	HIS
1	B	3146	HIS
1	B	3149	GLN
1	B	3180	ASN
1	B	3211	ASN
1	B	3234	ASN
1	B	3318	ASN
1	B	3325	ASN
1	B	3555	ASN
1	B	3734	HIS
1	B	3837	GLN
1	B	3860	ASN
1	B	3870	ASN
1	B	3927	GLN
1	B	3970	GLN
1	B	3998	HIS
1	B	4009	GLN
1	B	4037	ASN
1	B	4078	GLN
1	B	4156	HIS
1	B	4162	ASN
1	B	4216	GLN
1	B	4707	ASN
1	B	4728	HIS
1	B	4754	ASN
1	B	4978	HIS
1	B	5031	GLN
1	D	138	GLN
1	D	308	HIS
1	D	479	GLN
1	D	495	ASN
1	D	597	HIS
1	D	634	GLN
1	D	681	HIS
1	D	919	ASN
1	D	963	ASN
1	D	991	ASN
1	D	1003	GLN
1	D	1206	GLN
1	D	1252	HIS

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Mol	Chain	Res	Type
1	D	1254	HIS
1	D	1505	GLN
1	D	1506	GLN
1	D	1586	ASN
1	D	1631	GLN
1	D	1702	HIS
1	D	1719	HIS
1	D	1861	GLN
1	D	2003	GLN
1	D	2005	GLN
1	D	2007	ASN
1	D	2029	GLN
1	D	2107	GLN
1	D	2176	ASN
1	D	2180	GLN
1	D	2260	ASN
1	D	2417	HIS
1	D	2444	GLN
1	D	2514	ASN
1	D	2599	GLN
1	D	2646	ASN
1	D	2756	ASN
1	D	2881	ASN
1	D	2884	ASN
1	D	2902	HIS
1	D	3008	GLN
1	D	3052	HIS
1	D	3146	HIS
1	D	3149	GLN
1	D	3180	ASN
1	D	3211	ASN
1	D	3234	ASN
1	D	3318	ASN
1	D	3555	ASN
1	D	3734	HIS
1	D	3837	GLN
1	D	3860	ASN
1	D	3870	ASN
1	D	3927	GLN
1	D	3970	GLN
1	D	3998	HIS
1	D	4037	ASN

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Mol	Chain	Res	Type
1	D	4078	GLN
1	D	4156	HIS
1	D	4162	ASN
1	D	4216	GLN
1	D	4707	ASN
1	D	4728	HIS
1	D	4978	HIS
1	C	138	GLN
1	C	218	HIS
1	C	308	HIS
1	C	479	GLN
1	C	597	HIS
1	C	634	GLN
1	C	658	GLN
1	C	681	HIS
1	C	909	ASN
1	C	919	ASN
1	C	963	ASN
1	C	991	ASN
1	C	1003	GLN
1	C	1206	GLN
1	C	1252	HIS
1	C	1254	HIS
1	C	1505	GLN
1	C	1506	GLN
1	C	1586	ASN
1	C	1631	GLN
1	C	1702	HIS
1	C	1719	HIS
1	C	1837	GLN
1	C	2003	GLN
1	C	2005	GLN
1	C	2007	ASN
1	C	2029	GLN
1	C	2107	GLN
1	C	2176	ASN
1	C	2180	GLN
1	C	2260	ASN
1	C	2417	HIS
1	C	2444	GLN
1	C	2514	ASN
1	C	2599	GLN

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Mol	Chain	Res	Type
1	C	2646	ASN
1	C	2663	ASN
1	C	2756	ASN
1	C	2773	ASN
1	C	2774	ASN
1	C	2881	ASN
1	C	2884	ASN
1	C	2902	HIS
1	C	3008	GLN
1	C	3146	HIS
1	C	3149	GLN
1	C	3180	ASN
1	C	3211	ASN
1	C	3234	ASN
1	C	3318	ASN
1	C	3555	ASN
1	C	3734	HIS
1	C	3837	GLN
1	C	3860	ASN
1	C	3870	ASN
1	C	3927	GLN
1	C	3970	GLN
1	C	3998	HIS
1	C	4009	GLN
1	C	4037	ASN
1	C	4078	GLN
1	C	4156	HIS
1	C	4162	ASN
1	C	4216	GLN
1	C	4728	HIS
1	C	4978	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
6	A1BD2	C	5304	-	16,19,19	0.81	0	15,28,28	1.19	2 (13%)
3	ATP	B	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
3	ATP	C	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
6	A1BD2	A	5304	-	16,19,19	0.82	0	15,28,28	1.21	2 (13%)
6	A1BD2	B	5304	-	16,19,19	0.82	0	15,28,28	1.22	2 (13%)
3	ATP	A	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
3	ATP	D	5301	-	28,33,33	0.68	0	34,52,52	0.87	2 (5%)
6	A1BD2	D	5304	-	16,19,19	0.82	0	15,28,28	1.21	2 (13%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	A1BD2	C	5304	-	-	0/4/6/6	0/2/2/2
3	ATP	B	5301	-	-	5/18/38/38	0/3/3/3
3	ATP	C	5301	-	-	5/18/38/38	0/3/3/3
6	A1BD2	A	5304	-	-	0/4/6/6	0/2/2/2
6	A1BD2	B	5304	-	-	0/4/6/6	0/2/2/2
3	ATP	A	5301	-	-	5/18/38/38	0/3/3/3
3	ATP	D	5301	-	-	5/18/38/38	0/3/3/3
6	A1BD2	D	5304	-	-	0/4/6/6	0/2/2/2

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	5301	ATP	C4'-O4'-C1'	-3.65	106.58	109.92
3	A	5301	ATP	C4'-O4'-C1'	-3.64	106.59	109.92
3	B	5301	ATP	C4'-O4'-C1'	-3.64	106.59	109.92
3	C	5301	ATP	C4'-O4'-C1'	-3.62	106.61	109.92
6	A	5304	A1BD2	C2-N1-C5	-2.92	119.52	122.22
6	B	5304	A1BD2	C2-N1-C5	-2.90	119.55	122.22
6	D	5304	A1BD2	C2-N1-C5	-2.89	119.55	122.22
6	C	5304	A1BD2	C2-N1-C5	-2.84	119.60	122.22
6	B	5304	A1BD2	C1-N1-C5	2.65	120.08	117.34
6	A	5304	A1BD2	C1-N1-C5	2.62	120.05	117.34
6	D	5304	A1BD2	C1-N1-C5	2.59	120.02	117.34
6	C	5304	A1BD2	C1-N1-C5	2.55	119.97	117.34
3	C	5301	ATP	C5-C6-N6	2.29	123.80	120.31
3	A	5301	ATP	C5-C6-N6	2.29	123.80	120.31
3	B	5301	ATP	C5-C6-N6	2.29	123.80	120.31
3	D	5301	ATP	C5-C6-N6	2.29	123.80	120.31

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	C	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	PG-O3B-PB-O3A
3	B	5301	ATP	PG-O3B-PB-O3A
3	D	5301	ATP	PG-O3B-PB-O3A
3	C	5301	ATP	PG-O3B-PB-O3A
3	A	5301	ATP	PB-O3A-PA-O1A
3	A	5301	ATP	PB-O3A-PA-O2A
3	B	5301	ATP	PB-O3A-PA-O1A
3	B	5301	ATP	PB-O3A-PA-O2A
3	D	5301	ATP	PB-O3A-PA-O1A
3	D	5301	ATP	PB-O3A-PA-O2A
3	C	5301	ATP	PB-O3A-PA-O1A
3	C	5301	ATP	PB-O3A-PA-O2A
3	A	5301	ATP	PG-O3B-PB-O1B
3	B	5301	ATP	PG-O3B-PB-O1B
3	D	5301	ATP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
3	C	5301	ATP	PG-O3B-PB-O1B

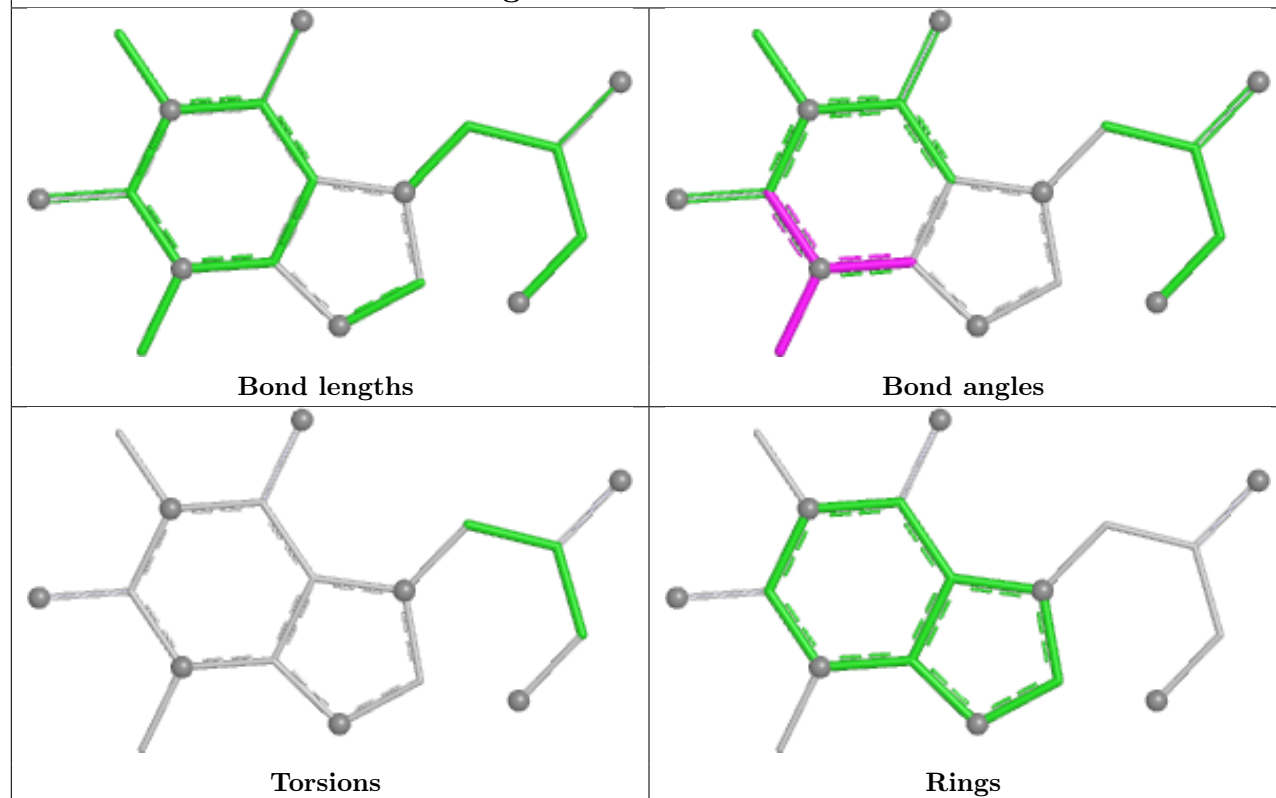
There are no ring outliers.

8 monomers are involved in 11 short contacts:

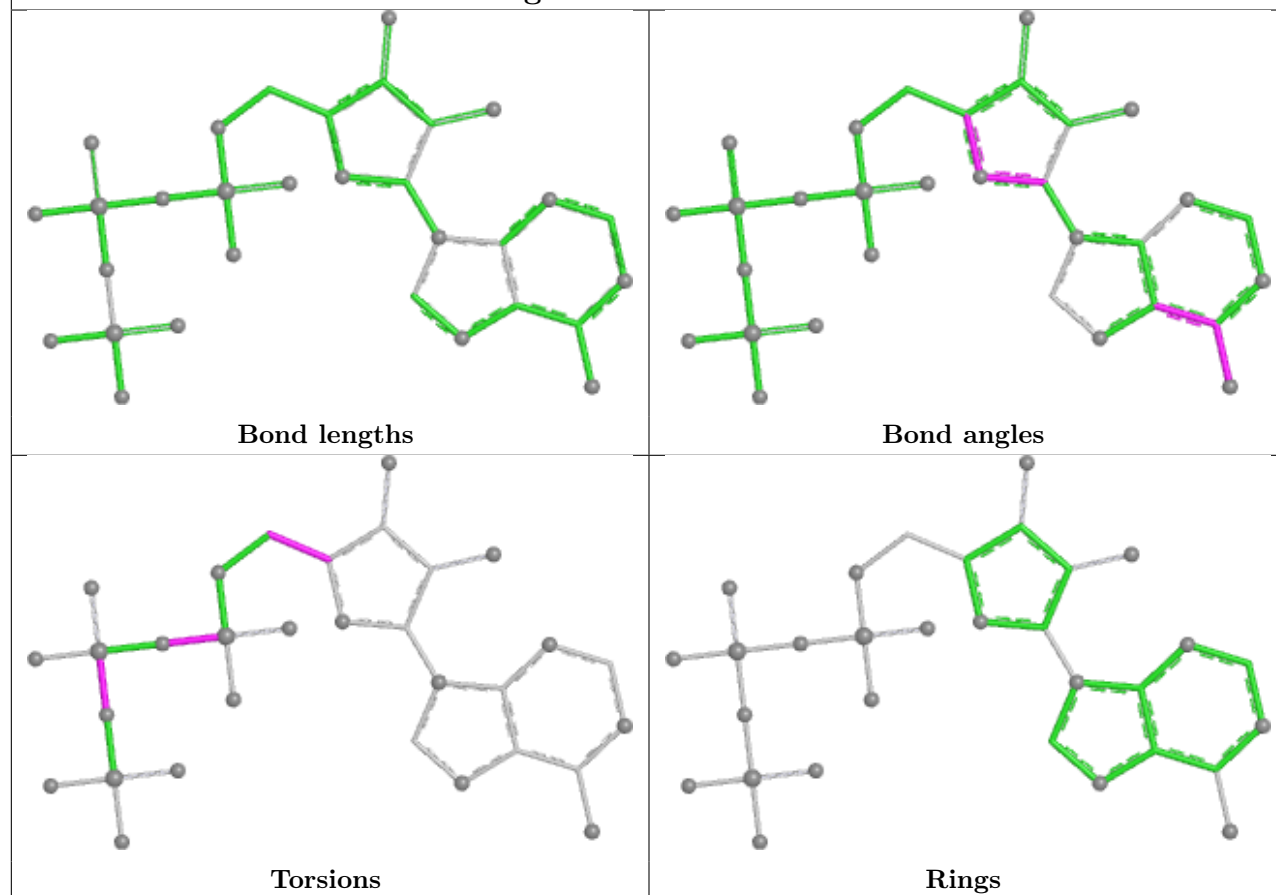
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	C	5304	A1BD2	1	0
3	B	5301	ATP	2	0
3	C	5301	ATP	2	0
6	A	5304	A1BD2	1	0
6	B	5304	A1BD2	1	0
3	A	5301	ATP	1	0
3	D	5301	ATP	2	0
6	D	5304	A1BD2	1	0

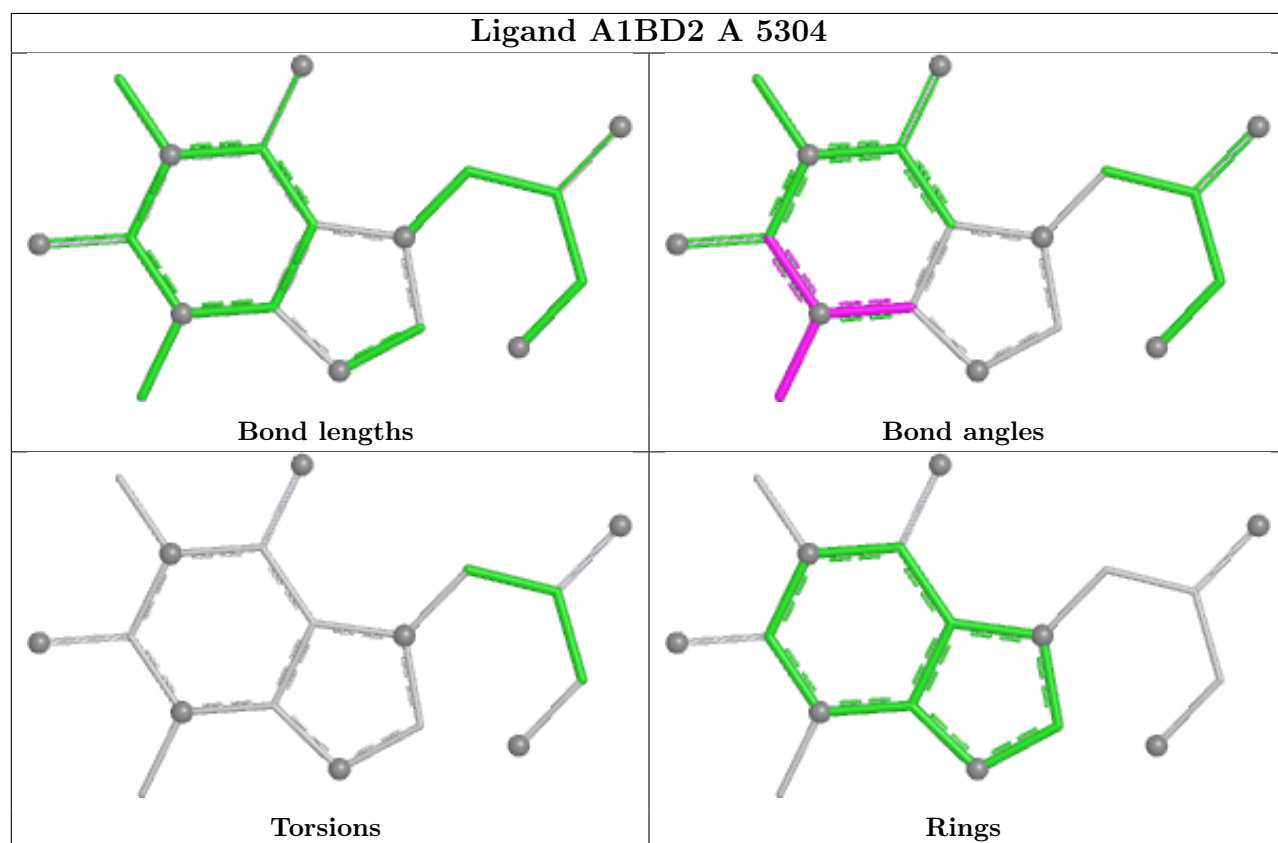
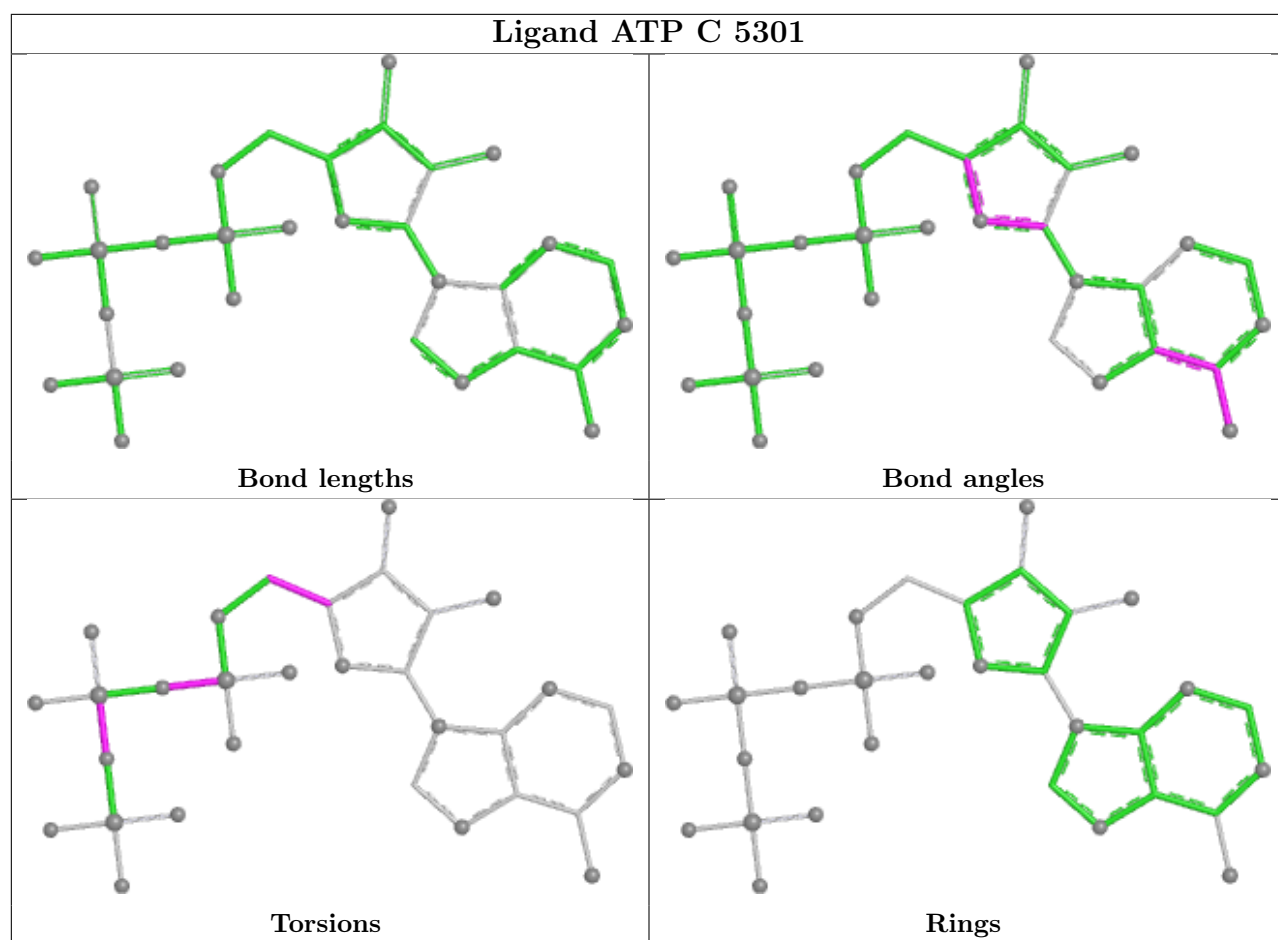
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

Ligand A1BD2 C 5304

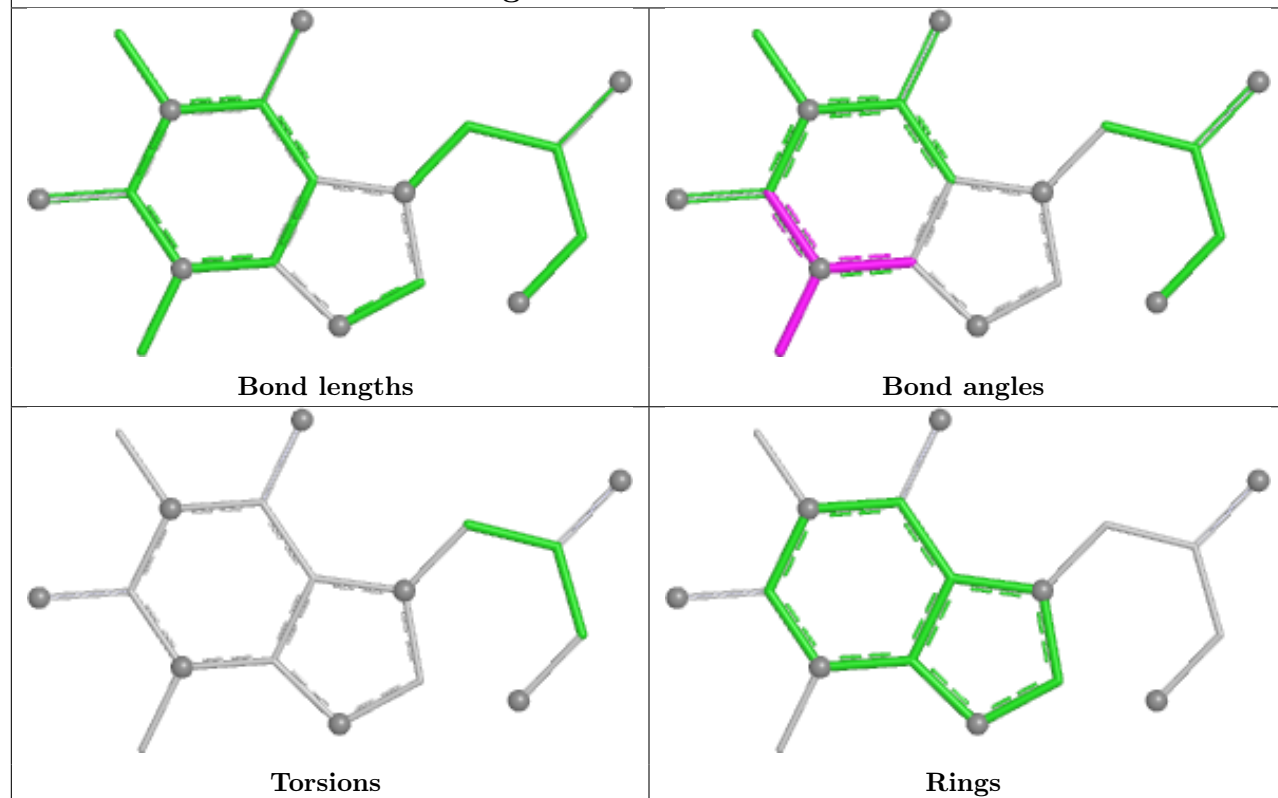


Ligand ATP B 5301

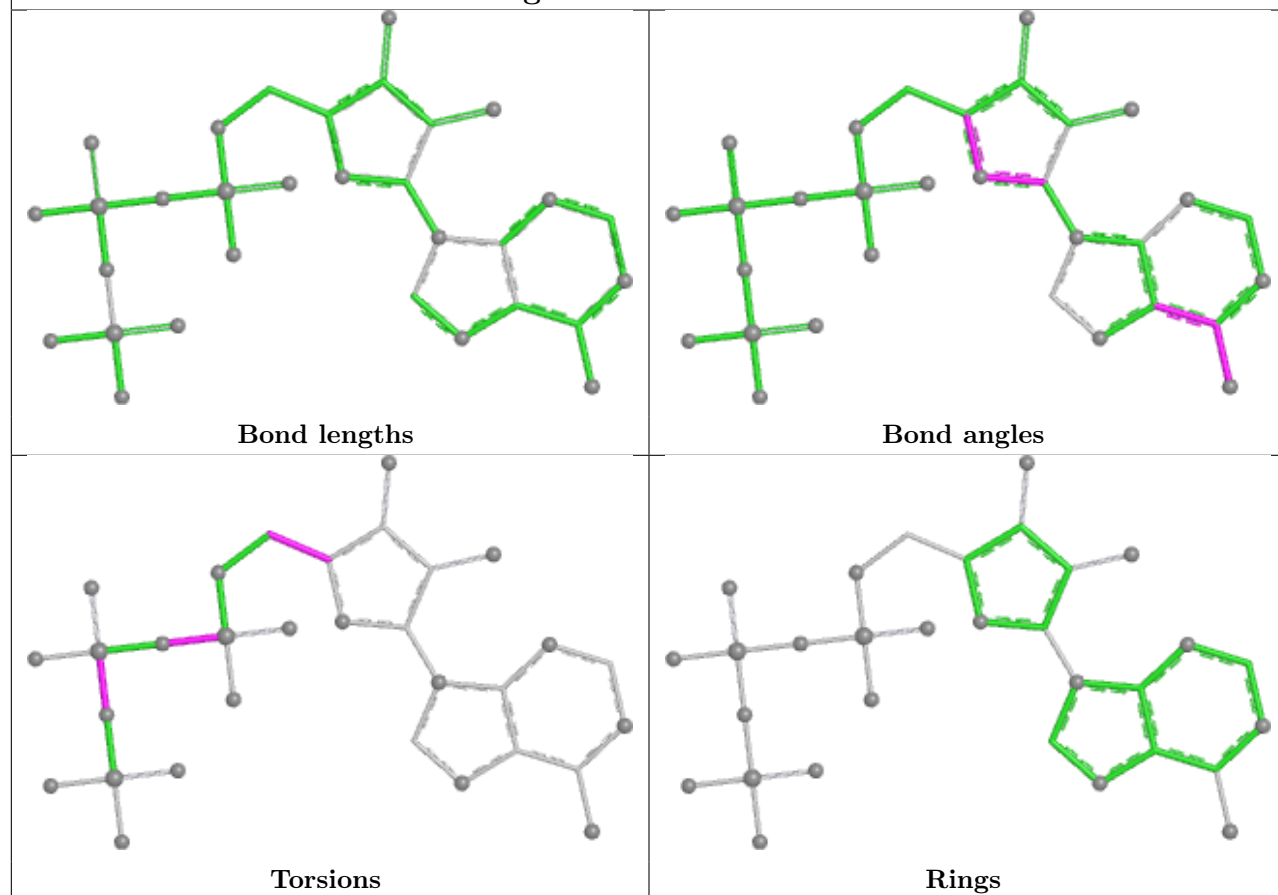


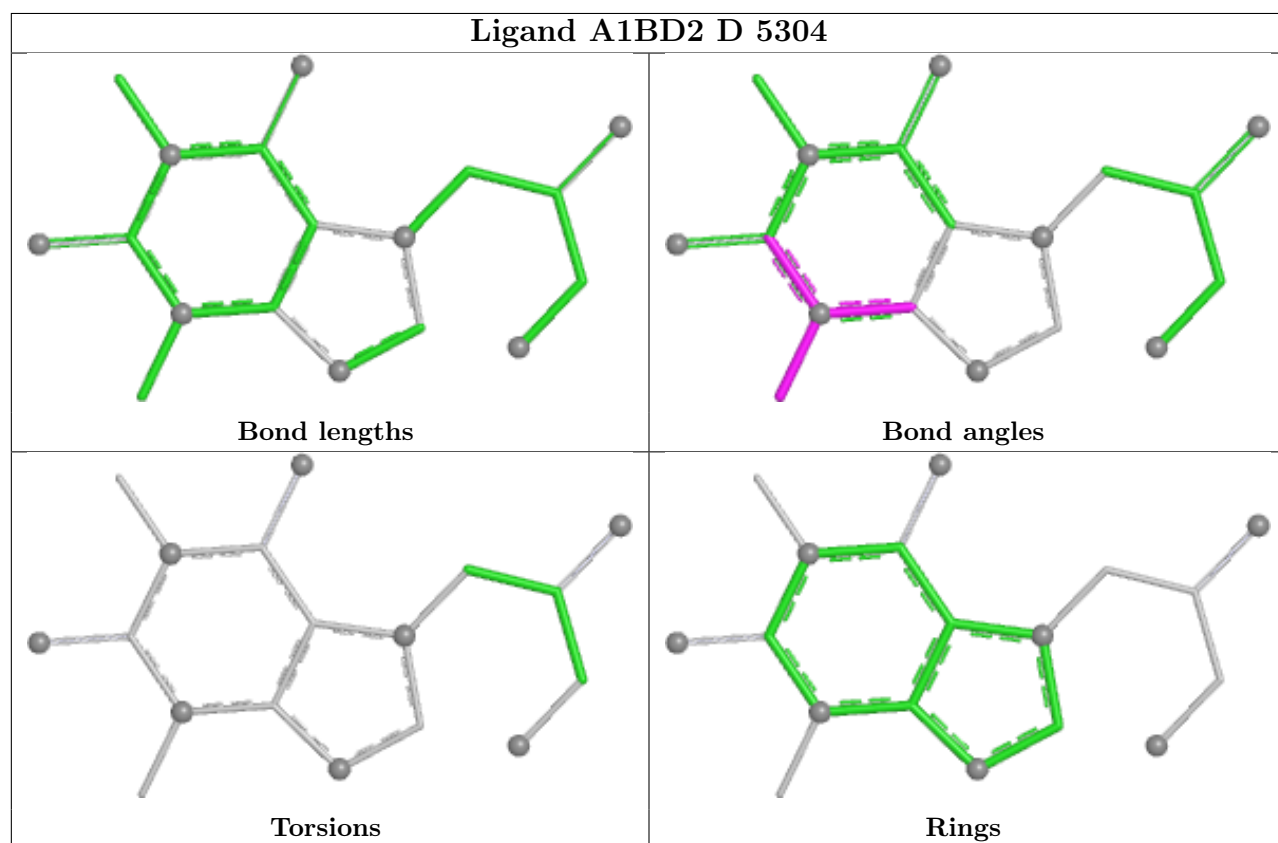
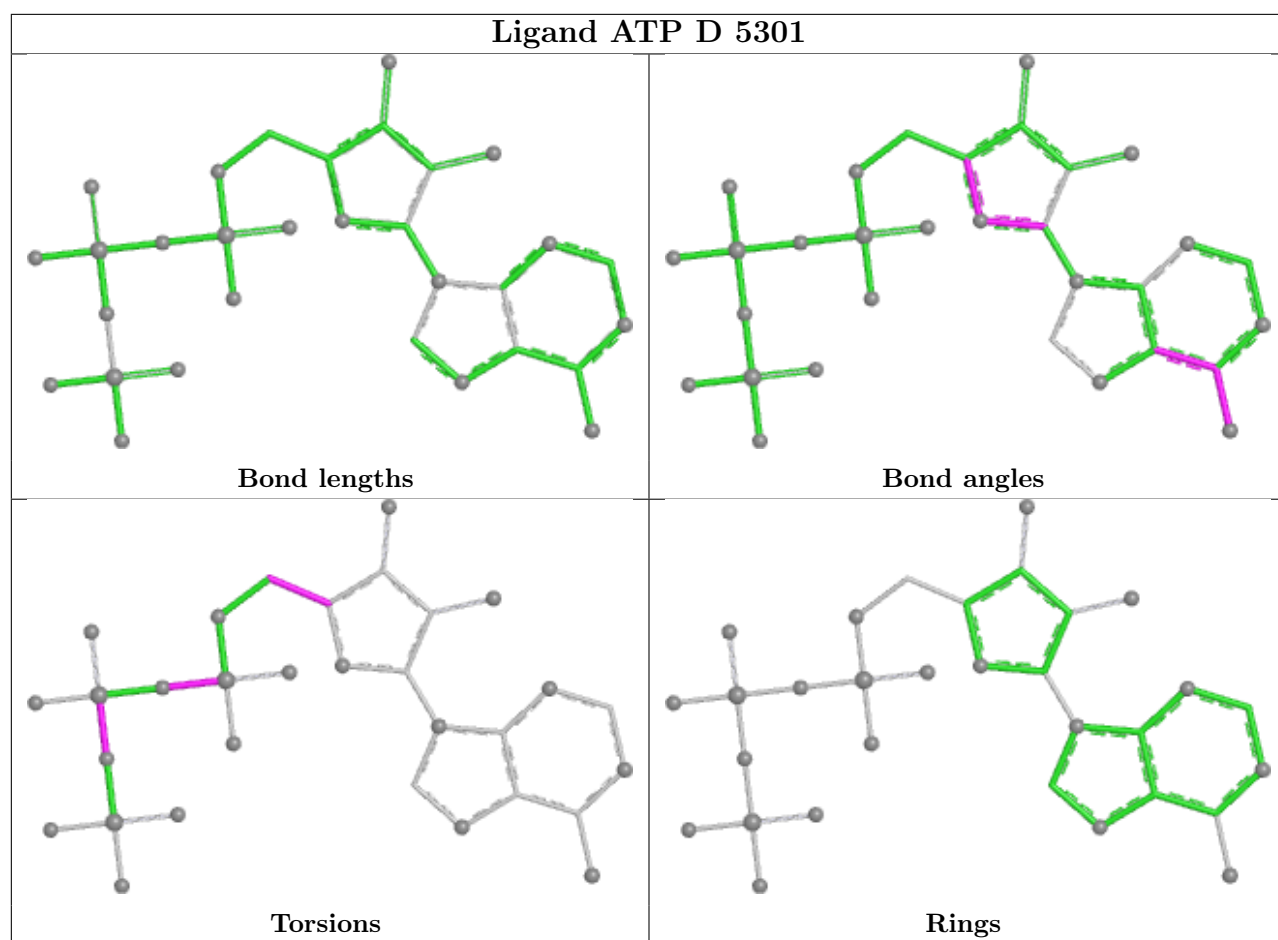


Ligand A1BD2 B 5304



Ligand ATP A 5301





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.

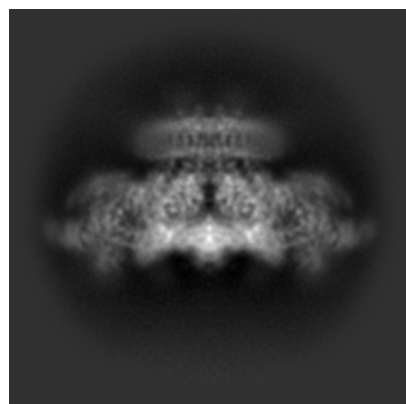
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47388. These allow visual inspection of the internal detail of the map and identification of artifacts.

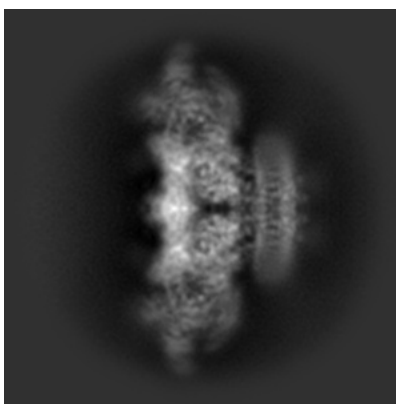
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

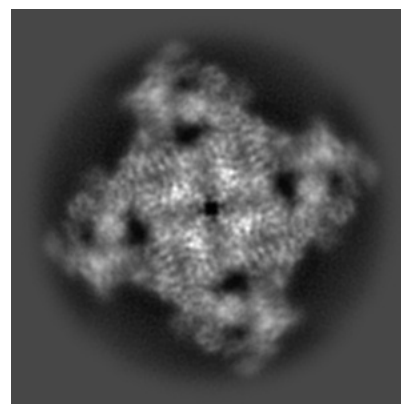
6.1.1 Primary map



X

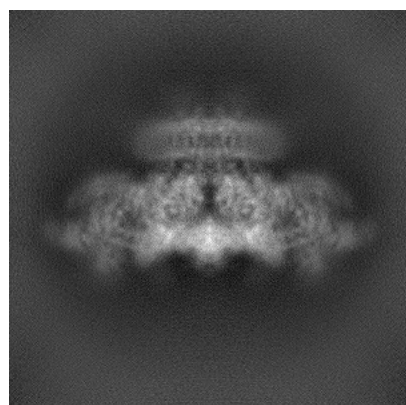


Y

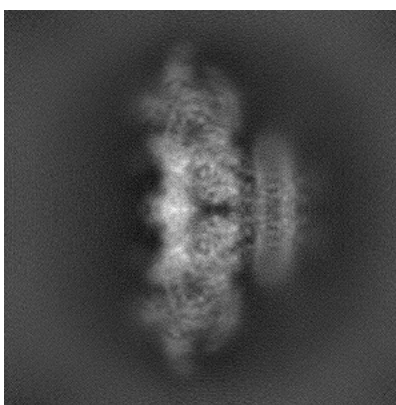


Z

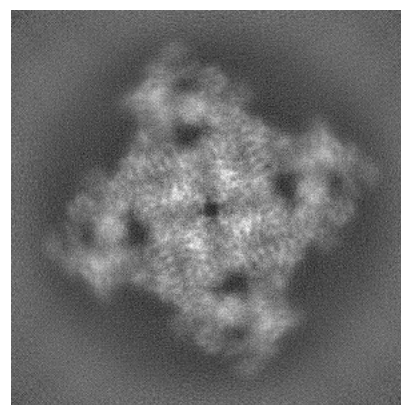
6.1.2 Raw map



X



Y

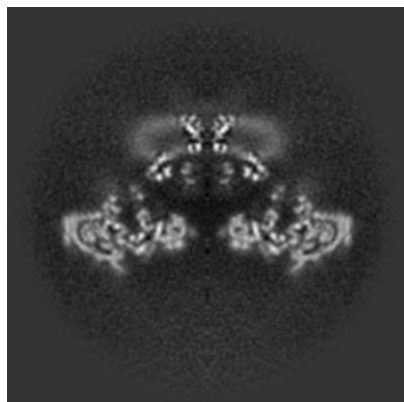


Z

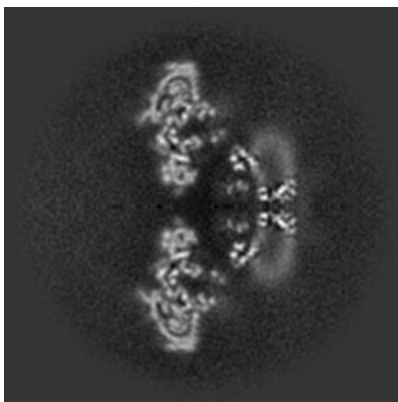
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

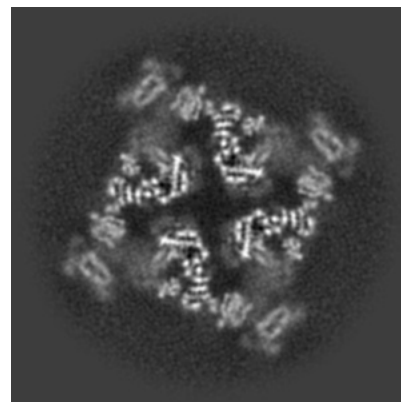
6.2.1 Primary map



X Index: 256

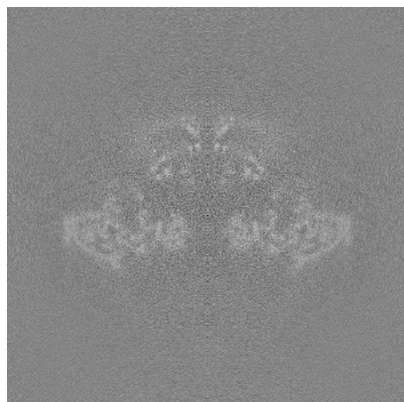


Y Index: 256

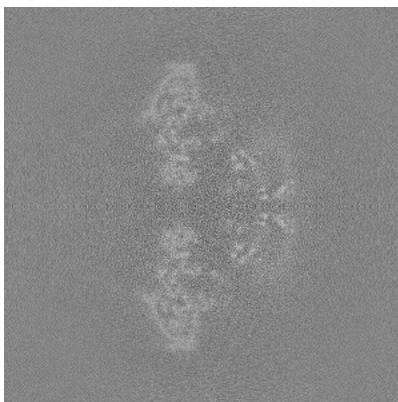


Z Index: 256

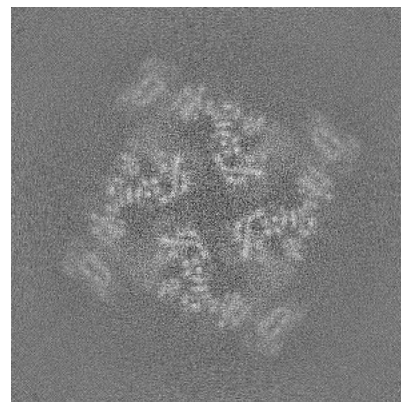
6.2.2 Raw map



X Index: 256



Y Index: 256

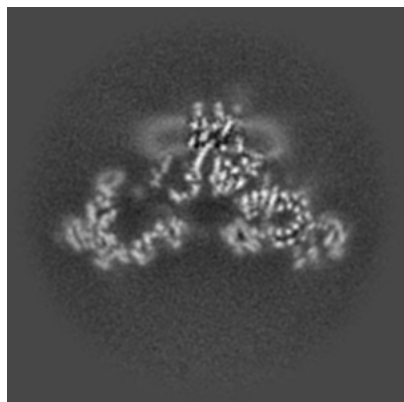


Z Index: 256

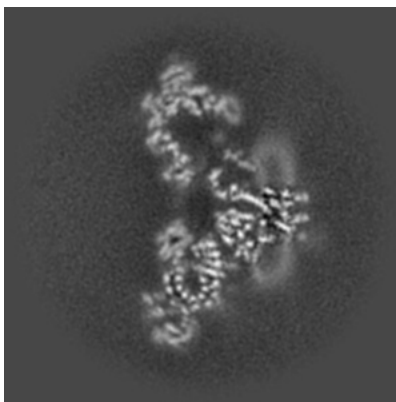
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

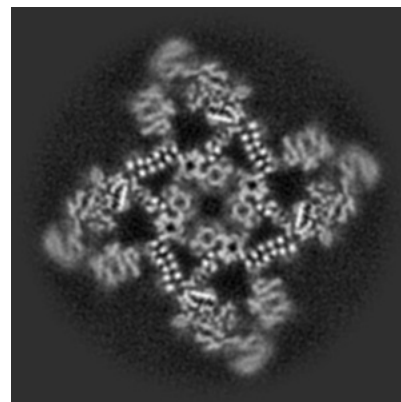
6.3.1 Primary map



X Index: 269

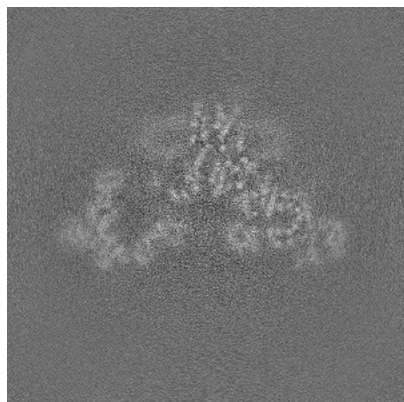


Y Index: 269

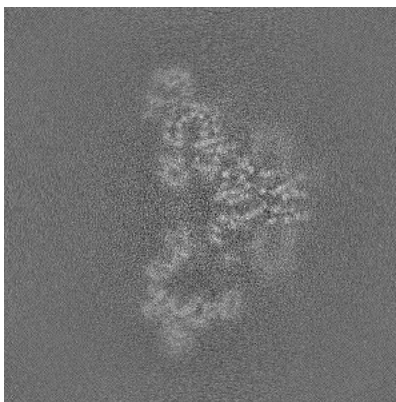


Z Index: 229

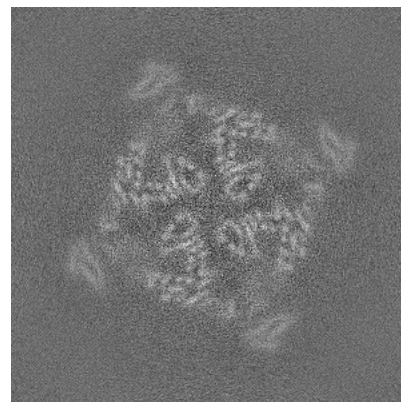
6.3.2 Raw map



X Index: 271



Y Index: 241

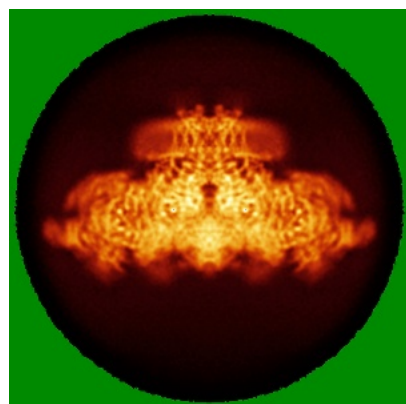


Z Index: 268

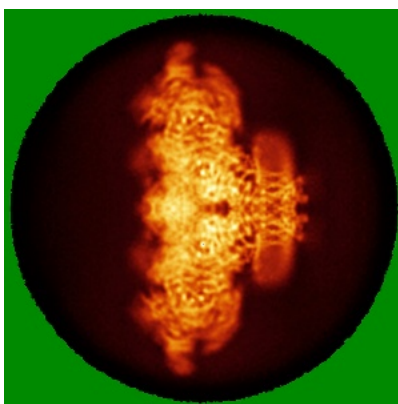
The images above show the largest variance slices of the map in three orthogonal directions.

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

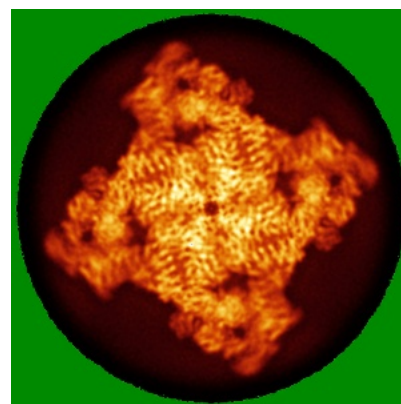
6.4.1 Primary map



X

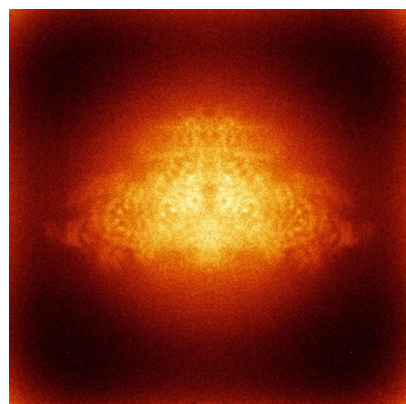


Y

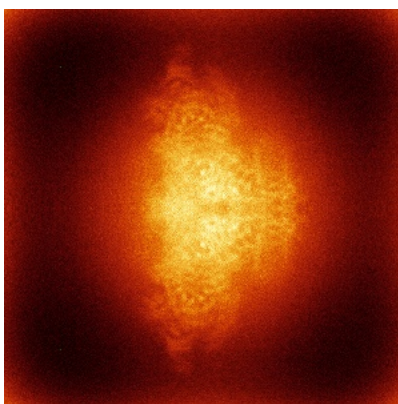


Z

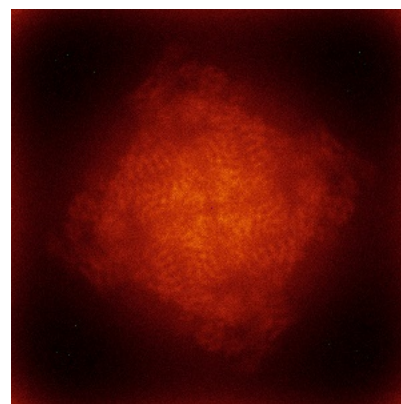
6.4.2 Raw map



X



Y

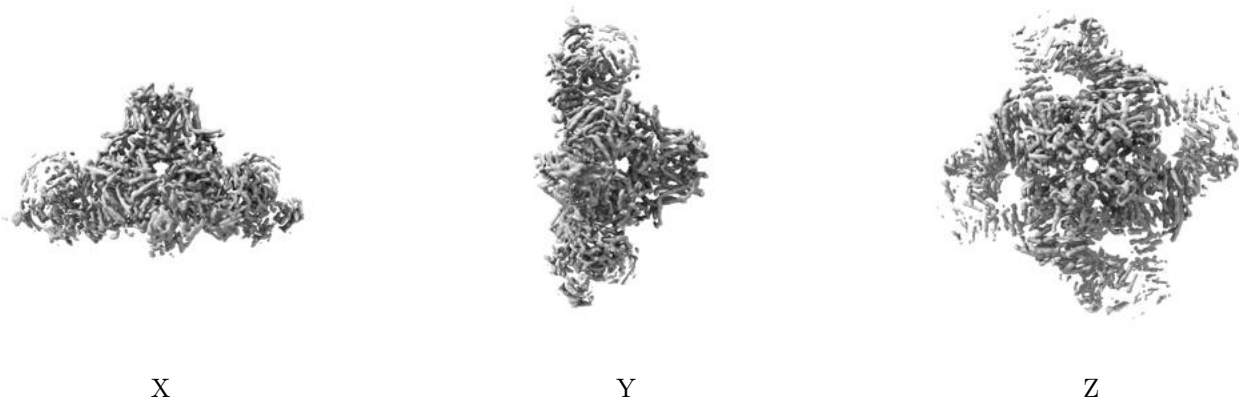


Z

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

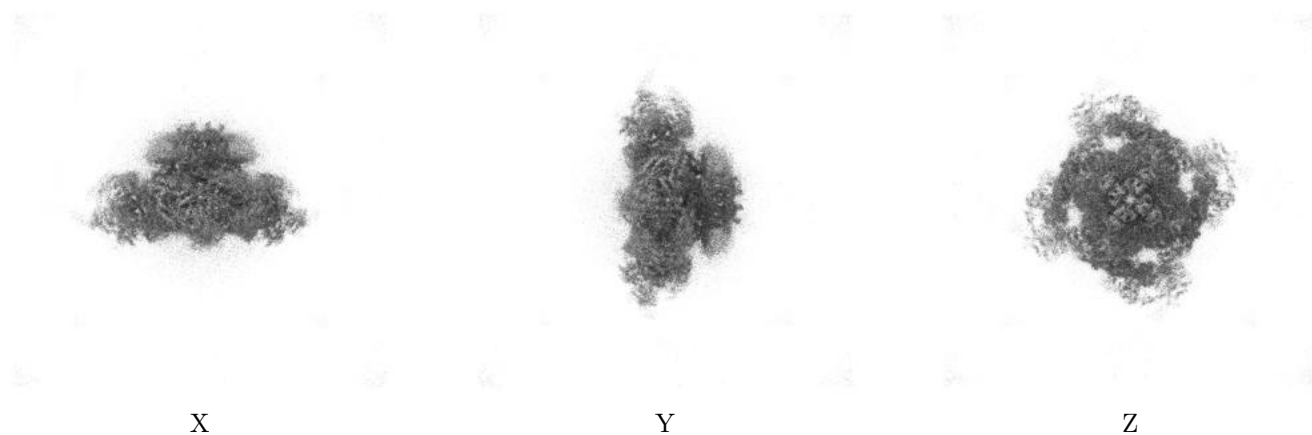
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

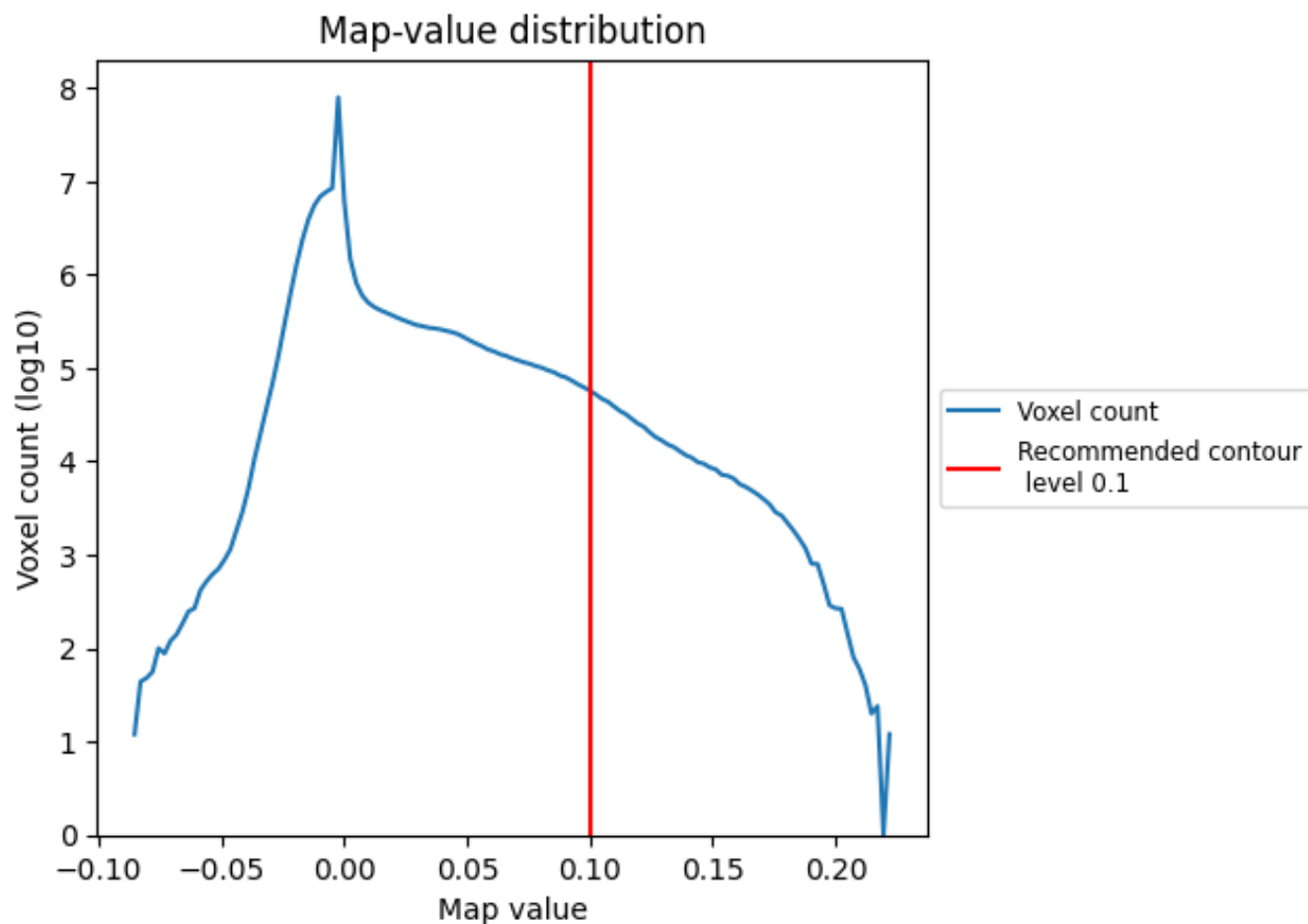
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

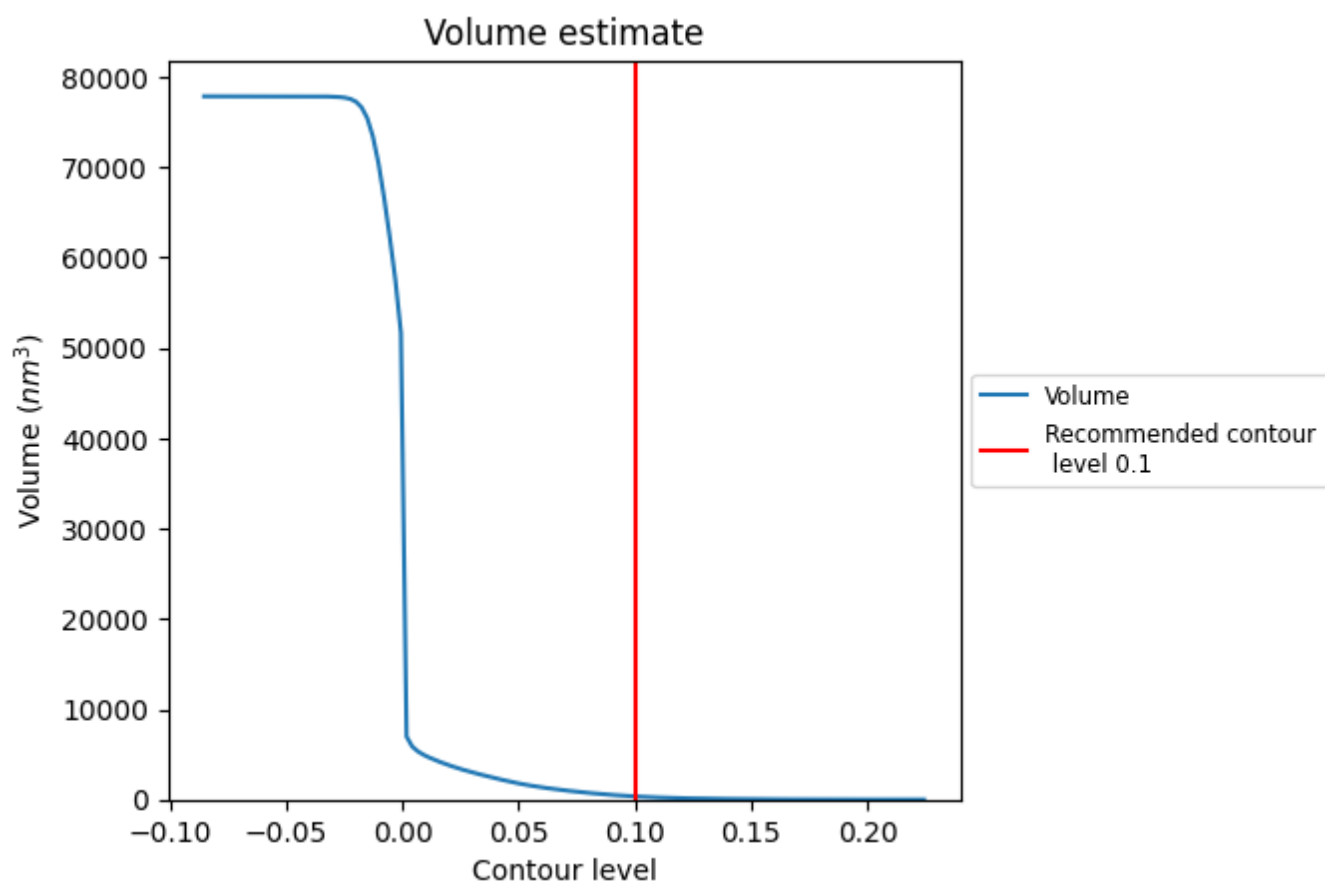
This section contains the results of statistical analysis of the map.

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.

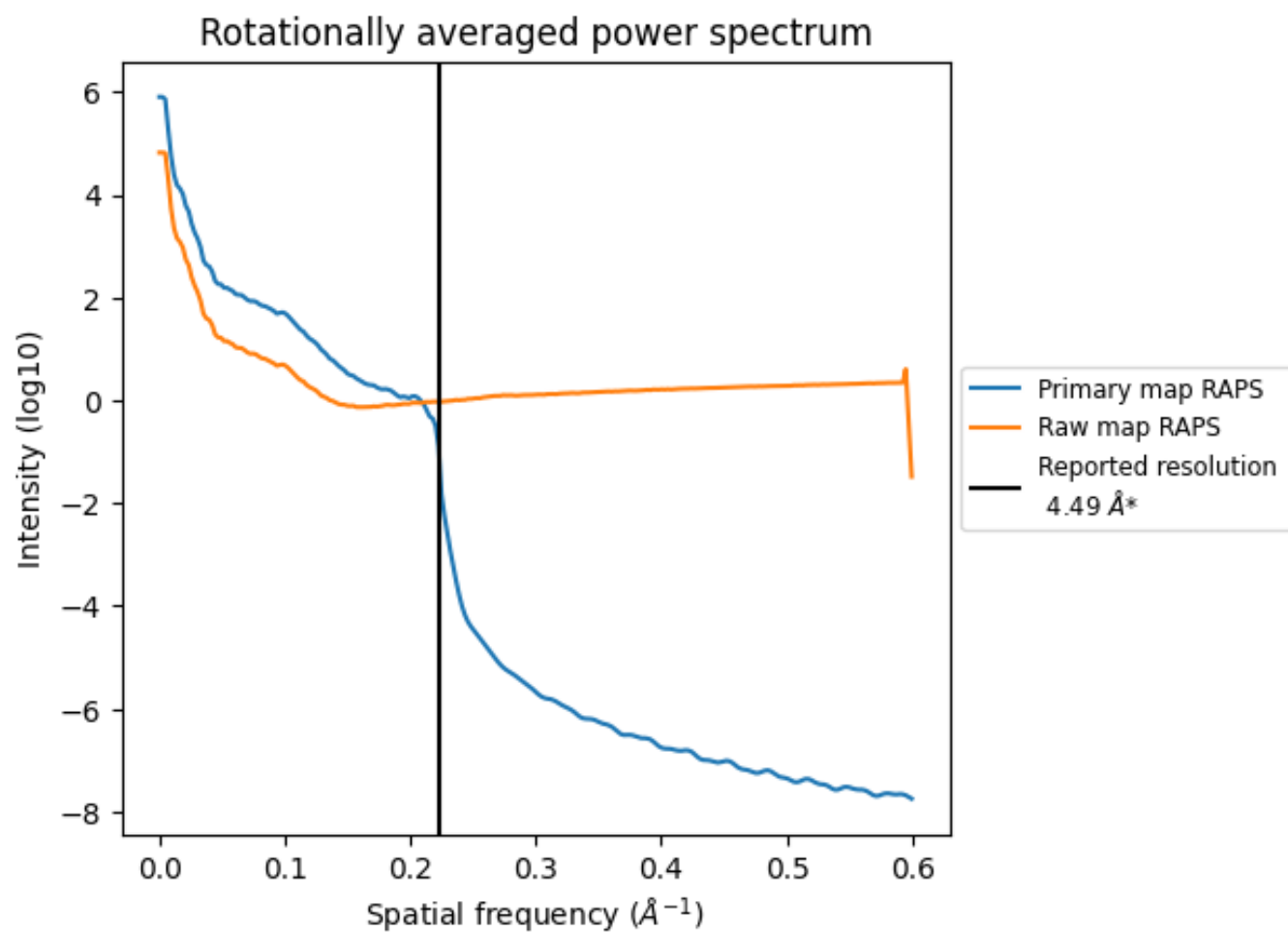
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 352 nm³; this corresponds to an approximate mass of 318 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 ⓘ

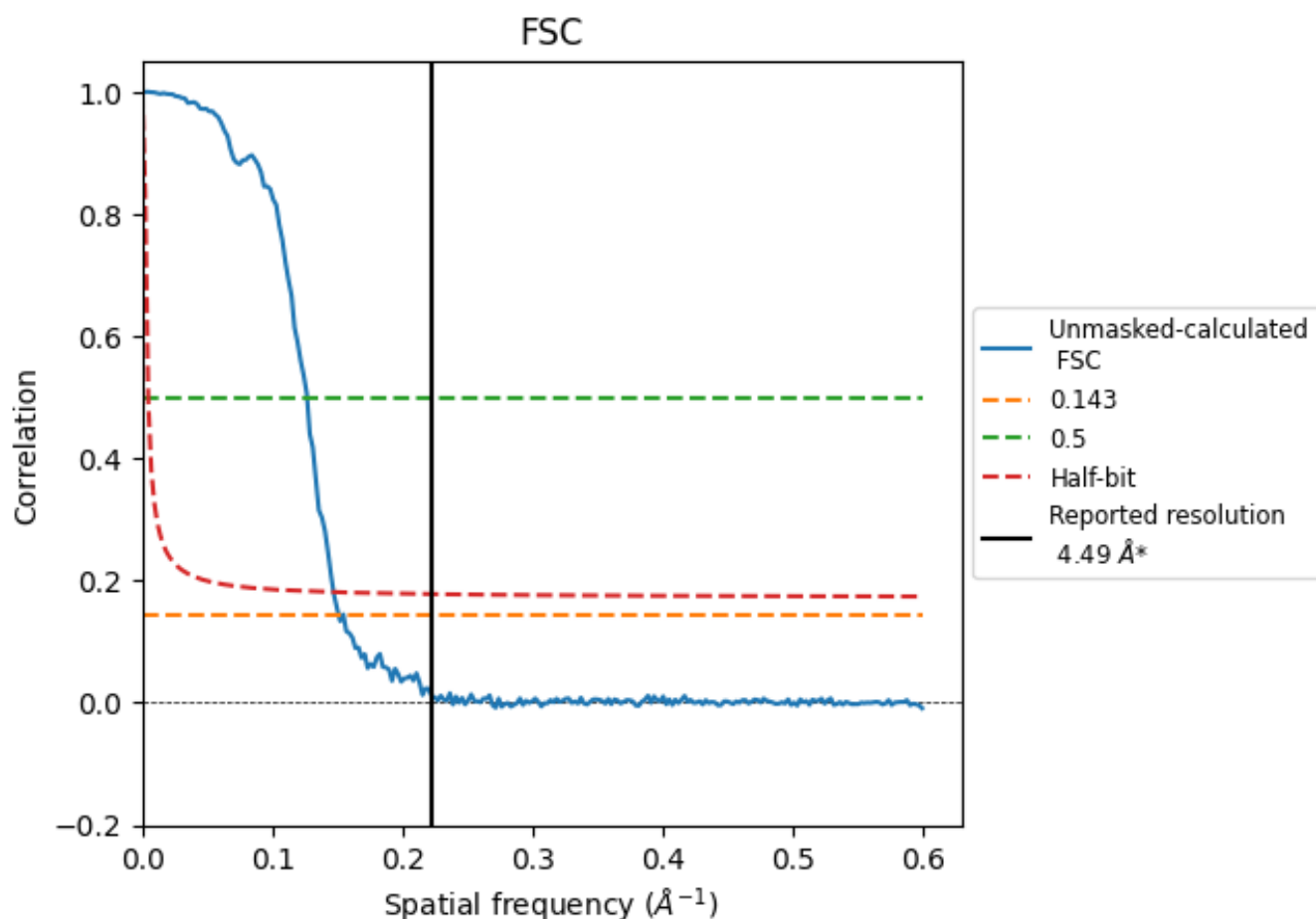


*Reported resolution corresponds to spatial frequency of 0.223 \AA^{-1}

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.223 \AA^{-1}

8.2 Resolution estimates [i](#)

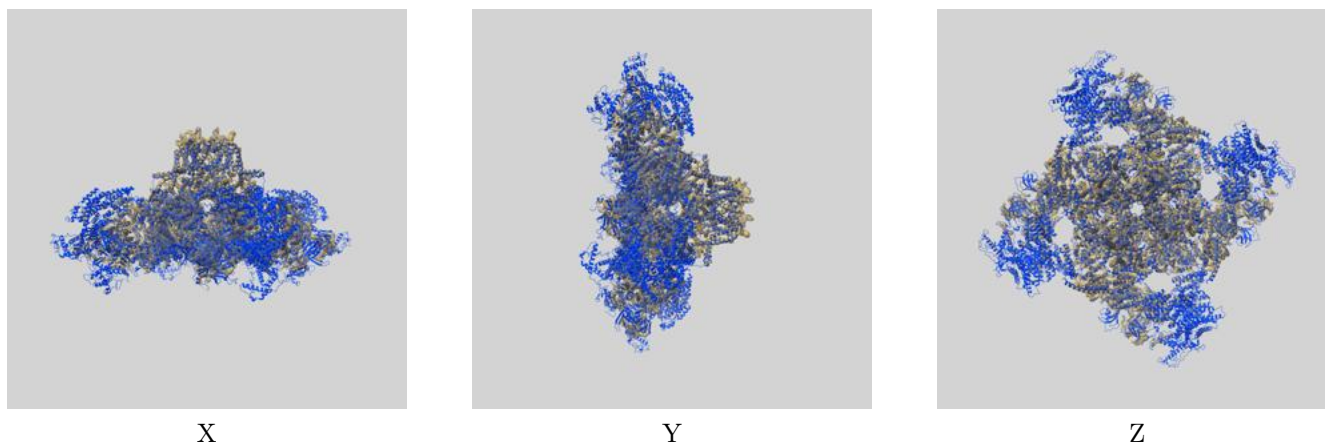
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.49	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	6.62	7.89	6.80

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.62 differs from the reported value 4.49 by more than 10 %

9 Map-model fit [i](#)

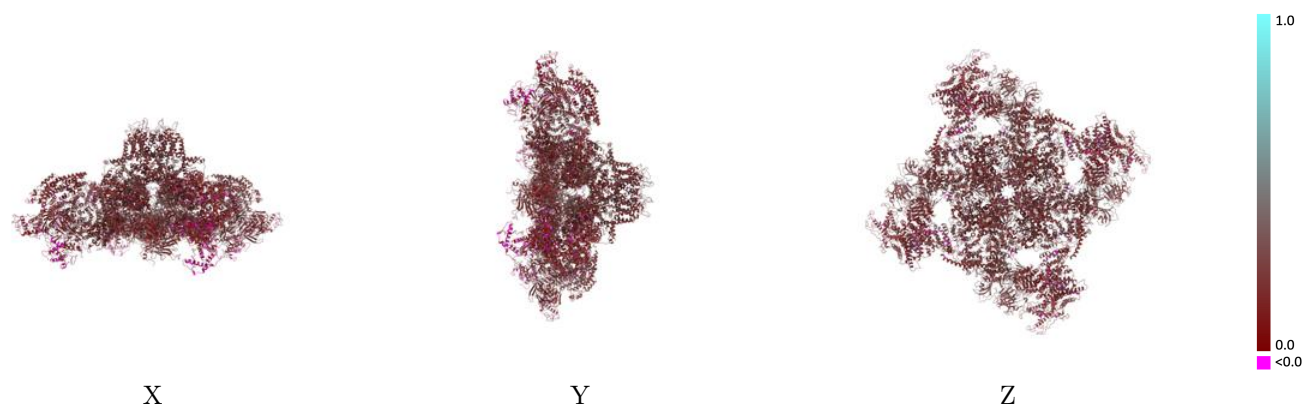
This section contains information regarding the fit between EMDB map EMD-47388 and PDB model 9E1B. Per-residue inclusion information can be found in section [3](#) on page [6](#).

9.1 Map-model overlay [i](#)



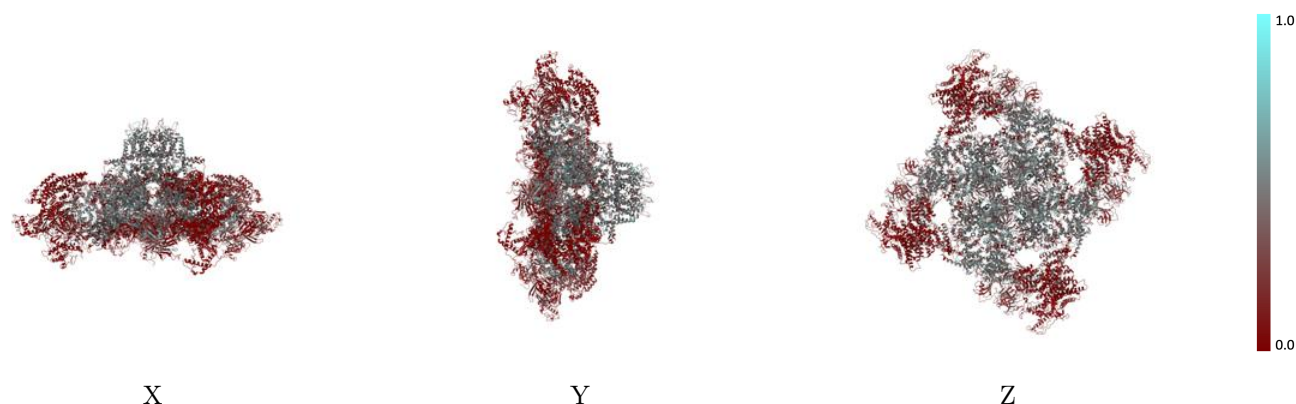
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



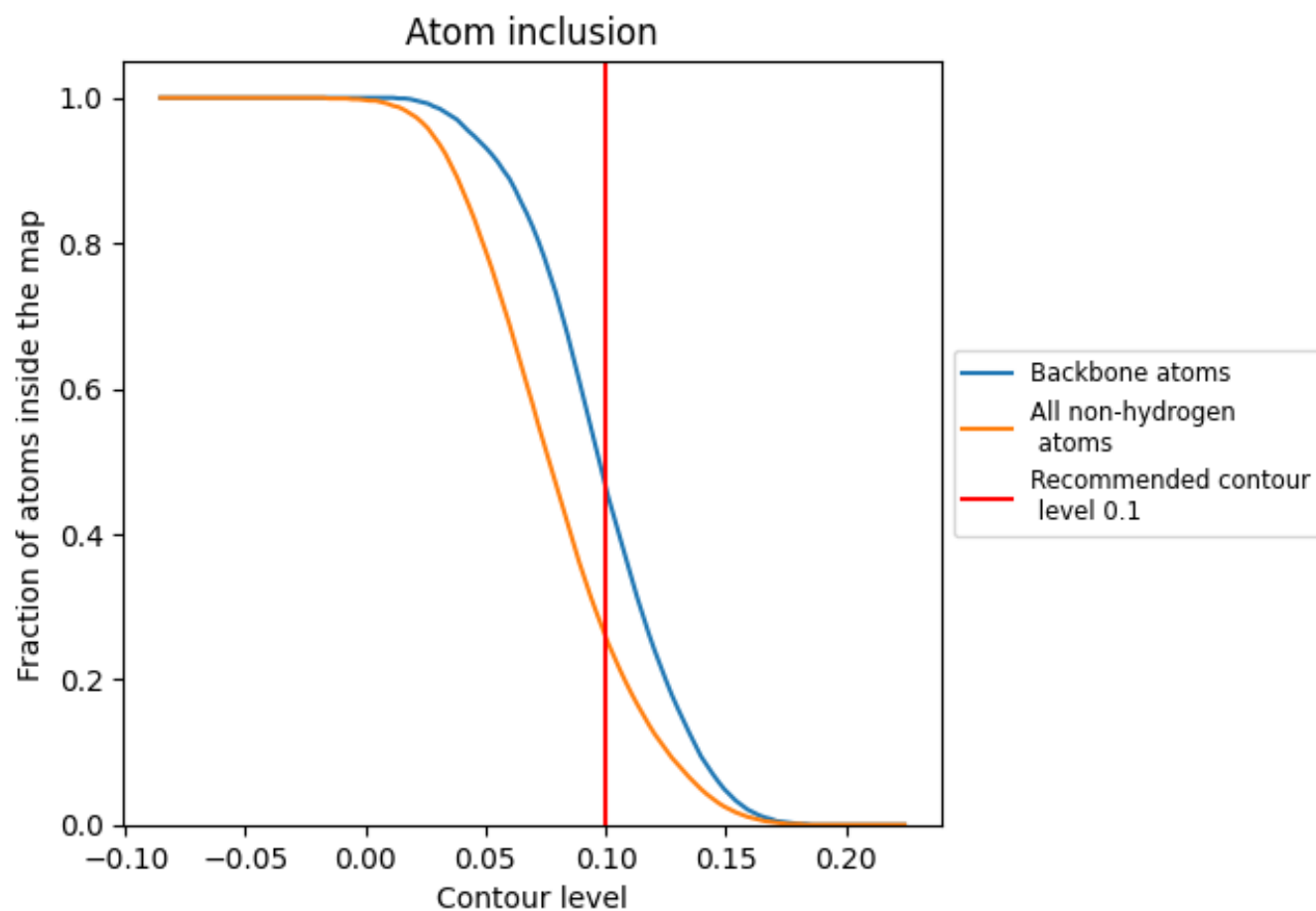
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.1).

9.4 Atom inclusion [i](#)



At the recommended contour level, 47% of all backbone atoms, 26% 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 (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.2590	<div></div> 0.2100
A	<div></div> 0.2640	<div></div> 0.2100
B	<div></div> 0.2640	<div></div> 0.2090
C	<div></div> 0.2640	<div></div> 0.2090
D	<div></div> 0.2640	<div></div> 0.2090
E	<div></div> 0.0360	<div></div> 0.2600
F	<div></div> 0.0310	<div></div> 0.2560
G	<div></div> 0.0320	<div></div> 0.2630
H	<div></div> 0.0360	<div></div> 0.2580

