



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 01:18 PM UTC

PDB ID : 6ZHE / pdb_00006zhe
EMDB ID : EMD-11219
Title : Cryo-EM structure of DNA-PK dimer
Authors : Chaplin, A.K.; Hardwick, S.W.; Chirgadze, D.Y.; Blundell, T.L.
Deposited on : 2020-06-23
Resolution : 7.24 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

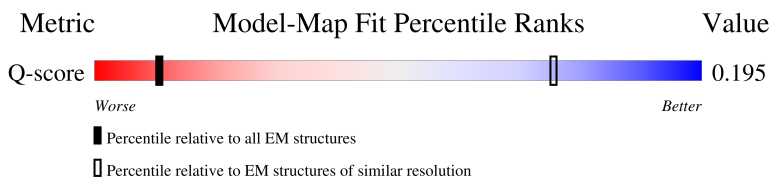
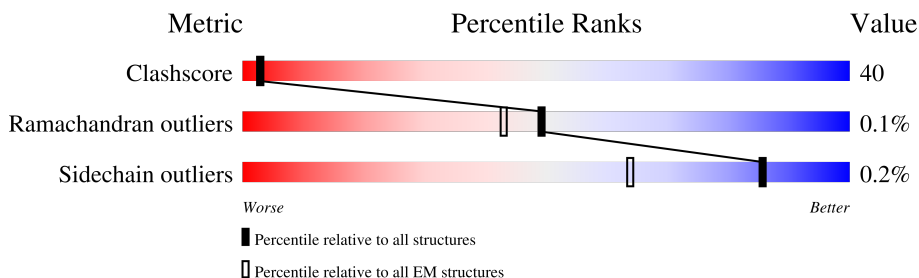
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.24 Å.

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



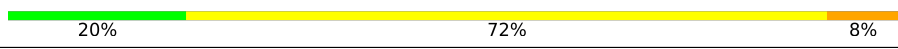
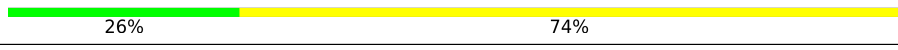
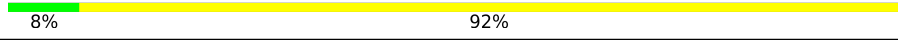
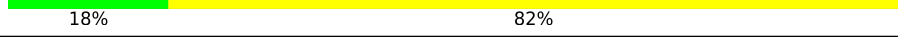
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	402 (6.74 - 7.70)

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

Mol	Chain	Length	Quality of chain
1	A	4156	
1	F	4156	
2	B	609	
2	G	609	

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Mol	Chain	Length	Quality of chain
3	C	732	
3	H	732	
4	J	25	
5	I	27	
6	D	26	
7	E	28	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 78785 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 DNA-dependent protein kinase catalytic subunit,DNA-PKcs.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	3768	Total	C	N	O	S	0	0
			29018	18632	4914	5293	179		
1	F	3731	Total	C	N	O	S	0	0
			29012	18636	4896	5295	185		

- Molecule 2 is a protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	489	Total	C	N	O	S	0	0
			3789	2430	640	704	15		
2	G	489	Total	C	N	O	S	0	0
			3797	2434	640	708	15		

- Molecule 3 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	705	Total	C	N	O	S	0	0
			5490	3502	927	1037	24		
3	H	700	Total	C	N	O	S	0	0
			5517	3522	929	1041	25		

- Molecule 4 is a DNA chain called DNA (25-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
4	J	25	Total	C	N	O	P	0	0
			509	244	86	154	25		

- Molecule 5 is a DNA chain called DNA (27-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	I	27	Total	C	N	O	P	0	0
			552	265	102	158	27		

- Molecule 6 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	D	26	Total	C	N	O	P	0	0
			528	253	89	160	26		

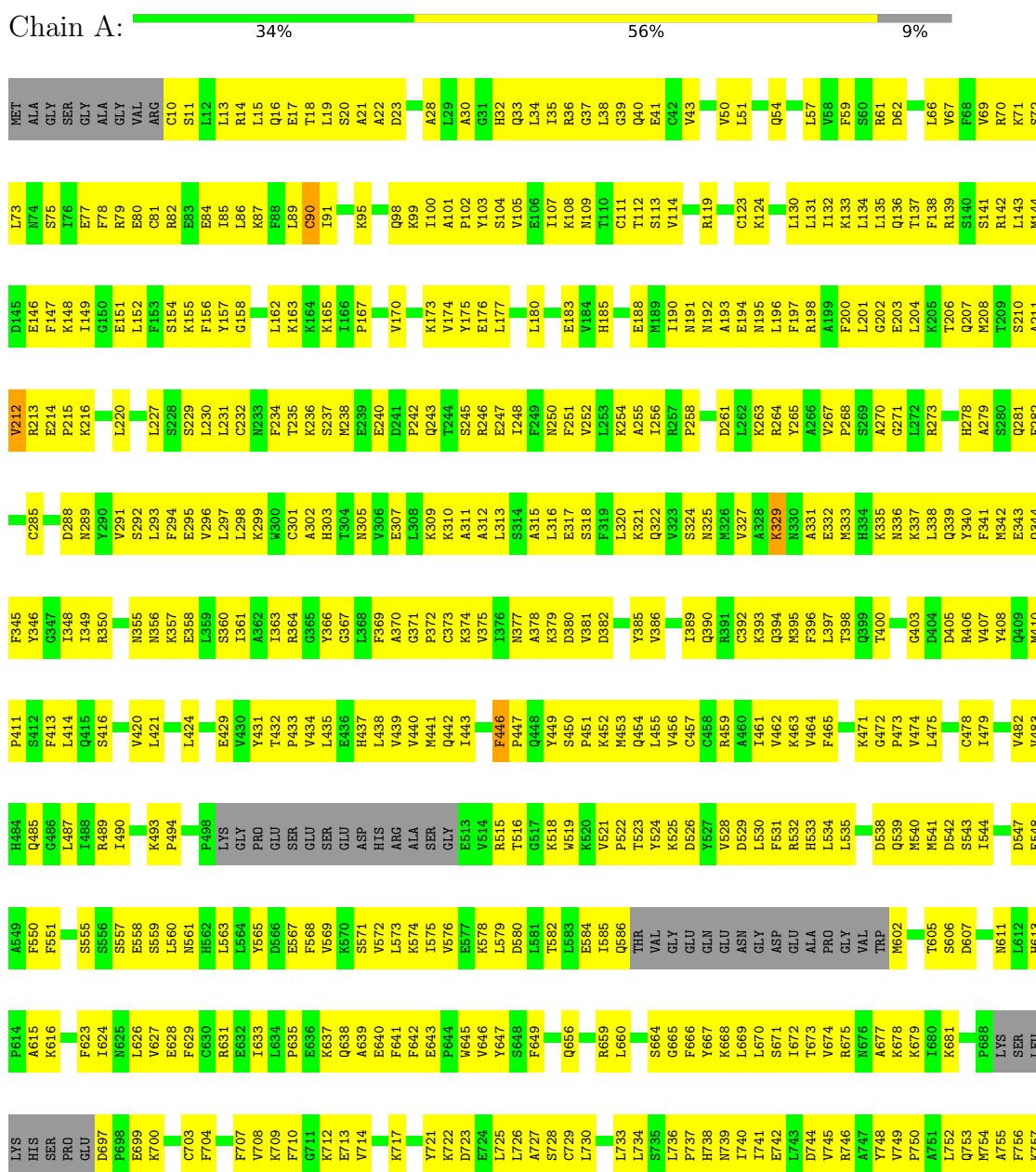
- Molecule 7 is a DNA chain called DNA (28-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
7	E	28	Total	C	N	O	P	0	0
			573	275	107	163	28		

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: DNA-dependent protein kinase catalytic subunit,DNA-PKcs



L1777	L1710	L1639	S1561	G1490	L1406	C1335	V1256	C1176	Q1098	L1033	P967	E900	V830	L758
F1778	R1711	E1640	L1562	T1491	K1407	T1336	L1257	G1177	F1099	R1034	Y968	M901	L831	G759
S1780	R1713	T1641	S1563	A1492	M1408	V1337	D1258	V1337	V1100	E1035	L970	K902	K832	L760
S1781	L1714	K1642	S1564	D1496	P1410	V1338	L1259	R1178	F1101	F1036	R971	P903	H833	S761
F1782	E1715	V1645	E1565	D1496	P1411	V1339	Y1267	Q1180	A1103	K1038	L972	I905	K835	Y762
R1783	E1716	L1646	L1566	R1497	K1412	L1341	N1268	T1181	L1104	K1039	A973	F906	K836	E767
R1784	V1718	L1649	T1568	C1499	D1413	M1342	I1271	E1182	V1106	S1040	C974	L907	K837	G768
I1785	V1719	K1650	E1570	D1504	D1414	E1343	I1271	C1183	I1107	I1041	D908	D908	G769	V769
		A1651	K1573	D1504	E1416	F1344	R1274	H1184	Y1107	K1042	V976	V909	A845	L770
		L1652	D1576	S1506	E1417	F1345	R1274	H1185	M1108	Q1043	F910	F910	N771	N771
		Q1654	D1577	C1507	H1418	T1346	V1276	K1186	E1109	I1044	G978	L911	A772	A772
		I1655	L1577	K1508	L1419	T1347	G1277	I1188	S1110	T1045	Y979	P912	L773	L773
		A1656	L1578	R1509	E1421	L1348	A1278	E1189	A1112	P1046	T980		E850	
		S1657	V1579	L1510	E1421	P1353	A1278	L1190	A1113	Q1047	L983	T915	I851	W776
			L1580	A1511	T1424	G1355	L1282	F1191	A1114	Q1048	Y984		R852	
		F1661	E1581	S1512	Q1425	E1356	G1283	F1194	H1115	E1050	L987	A921	I853	T780
		M1662	L1582	G1513	Q1426	K1357	G1283	V1195	I1124	K1061	Y988	D923	R854	D781
		T1663	M1583	L1514	Q1427	L1358	S1288	F1196	Q1125	R1062	T995	R924	V855	R782
		S1664	Q1584	L1515	I1428	L1359	S1289	L1197	Q1126	V1064	T996	Q925	V856	H783
		H1665	E1585	E1516	E1429	K1360	L1291		K1056	Q990	T926	T926	Q857	Q857
		G1666	N1589	L1517	E1430	K1361	L1291	R1202	C1127	K1057	L991	K934	M785	M785
		S1667	T1590	A1518	E1430		V1284	R1203	A1130	S1058	T992	V928	L859	Q786
		F1668	K1591	F1519	L1431	C1364	A1295	P1204	T1131	K1061	H993	A930	S861	P787
		P1669	M1592	A1520	L1436	M1366	F1297	M1205	D1132	R1062	Y994	A830	L862	Y788
		E1670	V1593	F1521		T1366	F1297	L1206	H1133	E932		C931	L862	Y789
		V1671	L1596	L1524	D1444	H1367	S1300	L1207	L1134	L1063		Q931	Q865	K790
		F1672	G1596	E1525	R1445	L1368	L1301	L1208	C1135	S1065	Y998	R934	I866	L793
		T1673	L1597	C1526	S1446	M1369	L1302	K1209	R1136	L1066	K999	H935	K868	D797
		T1674	M1598	E1526	R1447	R1370	A1302	D1210	I1137	A1067	K1000	V938	L869	G798
		Y1675	G1599	L1527	L1448	V1371	M1303	V1211	I1138	L1068	F1001	M939	L870	Y799
		M1600	L1600		L1448	L1372	H1304	L1212	E1139	M1069	S1002	F940	L800	L871
		S1676	A1449	L1533	A1450	L1372		K1213	K1140	P1070	S1003	N941	T872	K801
		L1678	A1450	M1534	A1450	T1375	A1309	E1214	K1141	A1072	Q1004	L942	S875	A804
		Q1603	V1452	V1452	V1452	L1376	E1310	E1215	H1142	A1072	G943	L942	S876	LEU
			S1453	S1453	S1453	C1377	K1311	G1216	V1143	F1073	V1007	G943	S877	SER
			Q1457	Q1457	Q1457	E1378	C1312		S1144	K1074	A1008	K944	D877	GLU
						S1381	F1313	F1219	L1145	G1077	L1009	Q947	M879	THR
						I1382	G1314	L1220	K1146	A1078	E1011	MET	M879	LYS
						G1383	THR	T1223	A1147	S1079	A1012	PRO	K881	ASN
						D1388	ALA	F1224	K1149	L1080	L1013	GLU	Y882	ASN
						V1391	ALA	E1225	K1150	A1081	L1014	GLY	Y883	TRP
						M1392	G1319	Q1231	L1153	F1082	D1015	GLN	A885	E314
						A1393			P1154	I1085	I1017	GLY	W886	A817
						H1394	S1323	L1235	R1155	Y1086	V1018	ALA	D887	A817
						L1395	P1324	L1236	G1156	R1087	D1019	P956	D887	L818
							Q1325		F1157	E1088	P1020	P957	R888	S819
						V1398	E1326	P1239	S1162	F1089	S1023	M958	K890	R820
						C1399	G1327	T1240	L1163	R1090	T1024	Y959	A821	A821
						L1401	R1329	L1241	C1164	E1092	L1024	Q960	L892	L892
						N1401	V1400	L1242	C1164	E1092	L1024	Q960	S893	Q823
						L1402	M1331	Y1243	L1165	F1093	D1027	Y962	F894	F826
						M1403	M1331	L1244	L1166	S1094	F1028	K963	A895	N827
						K1404	Y1332		V1169	V1096	R1031	R964	F898	K828
						A1405	L1334	F1248	K1170	E1097	C1032	F966	R899	W829

WORLDWIDE
PDB
PROTEIN DATA BANK

F3768	Q3769	V3770	M3771	N3772	L3775	A3780	C3781	R3784	R3785	L3786	Q3787	L3788	R3789	T3790	S3791	S3792	V3793	V3794	P3795	M3796	T3797	S3798	R3799	L3800	G3801	L3802	L3803	E3804	W3805	L3806	E3807	N3808	R3741	G3742	H3743	E3745	R3746	P3749	F3750	N3818	T3819	S3820	S3821	Q3822	E3823	E3824	K3825	Y3828	L3829	S3830	D3831	P3832	R3833							
Q3704	V3705	L3706	G3707	R3708	G3709	K3710	P3711	L3712	P3713	V3717	R3718	A3720	G3721	F3722	D3723	E3724	R3725	V3726	T3727	V3728	N3729	A3730	S3731	L3732	R3733	R3734	P3735	K3736	R3737	L3738	K3739	S3740	R3741	G3742	H3743	E3745	R3746	P3749	F3750	N3818	T3819	S3820	S3821	Q3822	E3823	E3824	K3825	Y3828	L3829	S3830	D3831	P3832	R3833							
F3632	I3633	Q3634	L3635	F3636	G3637	K3638	E3639	K3642	H3643	F3644	G3645	K3646	K3650	L3651	L3652	R3653	M3654	F3659	V3726	T3727	N3728	T3663	M3664	M3665	L3666	L3667	K3668	K3669	M3670	N3671	K3672	S3673	S3674	P3675	P3676	P3677	L3680	K3681	E3682	C3683	W3686	D3689	F3690	K3691	V3692	E3693	L3694	L3695	K3696	R3697	E3698	L3699	E3700	I3701						
Q3547	G3548	H3549	K3550	N3551	K3552	F3553	F3554	F3555	A3556	R3557	L3558	S3559	K3561	L3562	Q3563	Q3564	G3565	G3566	V3567	L3568	F3571	L3572	K3573	A3574	A3575	L3576	K3586	K3587	V3588	S3589	L3590	D3591	K3592	R3593	A3594	E3595	L3596	N3602	K3603	K3604	K3605	L3606	K3609	K3613	A3616	L3617	E3618	G3619	F3620	F3621	F3622	F3623	F3624	F3625	F3626	F3627	F3628	F3629	R3630	K3631
F3632	I3633	Q3634	L3635	F3636	G3637	K3638	E3639	K3642	H3643	F3644	G3645	K3646	K3650	L3651	L3652	R3653	M3654	F3659	V3726	T3727	N3728	T3663	M3664	M3665	L3666	L3667	K3668	K3669	M3670	N3671	K3672	S3673	S3674	P3675	P3676	P3677	L3680	K3681	E3682	C3683	W3686	D3689	F3690	K3691	V3692	E3693	L3694	L3695	K3696	R3697	E3698	L3699	E3700	I3701						
Q3704	V3705	L3706	G3707	R3708	G3709	K3710	P3711	L3712	P3713	V3717	R3718	A3720	G3721	F3722	D3723	E3724	R3725	V3726	T3727	V3728	N3729	A3730	S3731	L3732	R3733	R3734	P3735	K3736	R3737	L3738	K3739	S3740	R3741	G3742	H3743	E3745	R3746	P3749	F3750	N3818	T3819	S3820	S3821	Q3822	E3823	E3824	K3825	Y3828	L3829	S3830	D3831	P3832	R3833							
F2839	F2840	N2841	R2842	F2843	L2844	N2845	F2850	F2851	F2852	F2853	F2854	F2855	C2856	C2857	L2858	Q2859	N2860	L2861	S2862	C2863	Q2864	H2865	L2868	L2869	P2873	S2877	C2880	L2881	A2882	S2883	L2884	N2885	L2890	K2891	L2892	L2893	E2894	E2895	A2896	L2897	L2898	N2899	L2900	P2902	A2903	E2904	A2907	K2908	R2909											
V2910	R2911	G2912	K2913	A2914	R2915	L2916	P2917	P2918	D2919	V2920	L2921	R2922	W2923	V2924	E2925	L2926	A2927	K2928	L2929	Y2930	R2931	G2934	E2935	Y2936	D2937	V2938	L2939	R2940	L2942	F2943	T2944	S2945	G2948	L2957	L2958	A2959	Q2961	L2962	S2963	P2964	Y2965	S2966	E2967	K2970	Q2971	Y2972	D2973	E2974												
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L3053	Q3054	G3055	E3056	Q3059	S3060	L3061	L3062	T3063	F3064	I3065	D3066	K3067	A3068	M3069	H3070	G3071	E3072	Q3073	Q3074	K3075	A3076	I3077	L3078	E3079	L3080	S3083	Q3084	E3085	L3086	S3087	L3088	L3089	Y3090	L3091	L3092	Q3093	D3094	W3031	S3032	E3033	P3034	F3035	Y3036	Q3037	E3038	T3039	I3103	L3041	P3042	T3045	R3046	S3047	K3048	L3049	L3051	L3052				
H3122	Q3123	L3126	K3128	L3129	Q3130	A3134	L3135	F3064	L3136	F3137	L3138	Q3139	E3140	W3141	F3142	G3143	L3144	Q3074	K3145	S3146	P3147	S3148	G3149	H3150	Q3154	L3157	K3158	R3159	L3160	L3161	N3162	T3163	W3164	T3165	R3166	R3167	Y3168	P3169	P3175	K3176	N3177	L3178	W3179	D3180	L3181	L3182	L3183	T3184	N3185	R3186	C3187	F3188	F3189	L3190	S3191					
K3192	I3193	E3194	K3196	L3197	THR	LEU	PRO	GLU	ASP	ASN	SER	MET	ASN	VAL	ASP	GLN	ASP	GLY	ASP	PRQ	SER	ASP	ARG	MET	GLU	VAL	GLN	GLU	GLN	GLU	D3226	I3227	S3228	I3231	R3232	S3233	K3234	K3235	F3236	S3237	M3238	K3239	M3240	D3244	R3247	K3248	Q3249	N3250	K3251	F3252	S3253	L3254	A3255							
K3256	K3267	L3268	E3261	L3262	K3263	K3264	E3265	S3266	K3267	T3268	R3269	D3270	D3271	W3272	L3273	S3275	W3276	Q3278	S3279	R3282	L3283	K3287	S3290	K3291	C3292	C3293	S3294	E3295	L3298	K3302	S3305	L3306	L3307	D3308	E3309	N3310	N3311	S3314	Y3315	L3316	S3317	K3318	N3319	GLN	PRO	N3320	R3321	A3322	F3323	R3324	P3325									
Q3326	N3327	L3328	T3333	Y3334	I3337	L3348	A3349	F3350	I3351	E3352	R3357	R3358	L3359	E3361	S3365	S3366	S3367	E3368	D3369	K3372	V3373	L3374	A3375	G3376	L3377	Q3379	R3380	A3381	F3382	Q3383	H3384	L3385	S3386	E3387	A3388	V3389	Q3390	A3391	A3392	F3393	E3394	E3395	A3396	GLN	PRO	N3320	R3321	A3322	F3323	R3324	P3325									
GLY	PRO	A3406	T3410	A3412	Y3413	T3415	L3416	A3417	L3418	F3419	C3420	D3421	R3425	E3429	ASN	SER	VAL	ASP	SER	ALA	E3438	P3443	Y3446	K3449	K3450	L3451	K3452	A3453	L3454	K3455	A3461	L3462	K3464	P3466	L3468	L3469	Q3470	L3471	L3472	E3473	R3474	Y3475	E3478	T3479																
L3480	S3481	L3482	E3486	L3487	P3491	C3492	W3493	Q3494	F3495	L3496	S3497	W3498	L3499	S3500	H3501	M3502	L3505	L3506	D3507	K3508	A3511	V3512	V3514	H3515	S3517	V3518	E3519	E3520	D3523	N3524	Y3525	Q3527	L3529	Y3530	Y3531	F3532	L3534	I3535	S3536	S3537	E3538	S3539	Y3540	S3541	F3542	K3543	T3544	S3546												
T3547	G3548	H3549	K3550	N3551	K3552	F3553	F3554	F3555	A3556	R3557	L3558	S3559	K3561	L3562	Q3563	Q3564	G3565	G3566	V3567	L3568	F3571	L3572	K3573	A3574	A3575	L3576	K3586	K3587	V3588	S3589	L3590	D3591	K3592	R3593	A3594	E3595	L3596	N3602	K3603	K3604	K3605	L3606	K3609	K3613	A3616	L3617	E3618	G3619	F3620	F3621	F3622	F3623	F3624	F3625	F3626	F3627	F3628	F3629	R3630	K3631
F3632	I3633	Q3634	L3635	F3636	G3637	K3638	E3639	K3642	H3643	F3644	G3645	K3646	K3650	L3651	L3652	R3653	M3654	F3659	V3726	T3727	N3728	T3663	M3664	M3665	L3666	L3667	K3668	K3669	M3670	N3671	K3672	S3673	S3674	P3675	P3676	P3677	L3680	K3681	E3682	C3683	W3686	D3689	F3690	K3691	V3692	E3693	L3694	L3695	K3696	R3697	E3698	L3699	E3700	I3701						
Q3704	V3705	L3706	G3707	R3708	G3709	K3710	P3711	L3712	P3713	V3717	R3718	A3720	G3721	F3722	D3723	E3724	R3725	V3726	T3727	V3728	N3729	A3730	S3731	L3732	R3733	R3734	P3735	K3736	R3737	L3738	K3739	S3740	R3741	G3742	H3743	E3745	R3746	P3749	F3750	N3818	T3819	S3820	S3821	Q3822	E3823	E3824	K3825	Y3828	L3829	S3830	D3831	P3832	R3833							



K1627	K1628	C1629	W1632	W1633	A1634	S1637	P1638	L1639	K1642	M1643	V1645	L1646	A1647	L1648	L1649	A1650	K1651	I1652	L1653	Q1654	I1655	M1592	S1593	S1594	A1595	V1596	L1597	F1661	T1663	S1664	S1667	F1668	P1669	E1670	V1671	F1672	T1673	T1674	Y1675	S1677	L1678	L1679	L1684	D1685	L1688	K1689	L1695	Q1624	F1692	F1697	F1698	W1626																																																																																																																																																																																								
E1565	I1566	I1567	N1568	T1569	L1571	L1572	K1573	Q1574	N1575	L1576	A1577	D1578	L1579	V1580	E1581	F1519	S1453	A1454	C1455	G1456	Q1457	L1458	H1459	R1460	A1461	G1462	L1463	L1464	H1465	N1466	L1467	L1468	V1469	S1470	D1474	L1475	H1476	H1477	T1481	E1482	L1483	L1484	S1485	L1486	V1487	F1488	S1489	G1490	I1491	E1492	P1493	G1494	L1495	E1496	R1497	L1500																																																																																																																																																																																				
P1501	S1502	L1503	D1504	L1505	S1506	G1507	K1508	Q1509	N1510	A1511	S1512	L1513	L1514	L1515	A1518	F1519	S1453	A1454	C1455	G1456	Q1457	L1458	H1459	R1460	A1461	G1462	L1463	L1464	H1465	N1466	L1467	L1468	V1469	S1470	D1474	L1475	H1476	H1477	T1481	E1482	L1483	L1484	S1485	L1486	V1487	F1488	S1489	G1490	I1491	E1492	P1493	G1494	L1495	E1496	R1497	L1500																																																																																																																																																																																				
I1428	E1429	E1430	N1435	L1436	Y1437	D1440	D1444	L1445	S1446	R1447	L1448	V1452	F1453	A1454	C1455	G1456	Q1457	L1458	H1459	R1460	A1461	G1462	L1463	L1464	H1465	N1466	L1467	L1468	V1469	S1470	D1474	L1475	H1476	H1477	T1481	E1482	L1483	L1484	S1485	L1486	V1487	F1488	S1489	G1490	I1491	E1492	P1493	G1494	L1495	E1496	R1497	L1500																																																																																																																																																																																								
D1362	L1363	C1364	N1365	T1366	L1368	M1369	R1370	V1371	L1372	V1373	Q1374	T1375	L1376	C1377	E1378	I1382	G1383	F1384	M1385	Q1386	G1387	D1388	V1389	Q1390	V1391	L1395	P1396	C1399	V1400	M1401	L1402	M1403	K1404	A1405	K1407	P1410	Y1411	K1412	D1413	L1414	V1487	F1488	S1489	G1490	I1491	E1492	P1493	G1494	L1495	E1496	R1497	L1500																																																																																																																																																																																								
L1290	L1291	K1292	N1293	A1294	V1295	F1296	L1297	L1298	E1299	S1300	I1301	A1302	M1303	H1304	D1305	L1306	I1307	A1308	A1309	E1310	K1311	C1312	F1313	G1314	THR	GLY	ALA	G1319	P1324	Q1325	E1326	G1327	R1328	R1329	Y1330	M1331	S1333	K1334	C1335	T1336	V1337	V1338	R1340	I1341	M1342	E1343	F1344	L1345	T1346	S1352	L1358	L1359																																																																																																																																																																																								
E1214	E1215	L1220	T1223	F1224	E1225	G1226	C1229	G1230	Q1231	P1232	G1233	C1234	I1235	Q1238	P1239	T1240	L1241	L1242	R1245	G1246	P1247	F1248	Q1251	C1255	W1256	L1257	L1260	L1261	L1264	E1265	C1266	Y1267	M1268	T1269	F1270	I1271	R1274	T1275	Q1280	V1281	L1282	G1283	T1284	E1285	A1286	Q1287	S1288	S1289																																																																																																																																																																																												
S1144	L1145	N1146	K1147	A1148	K1149	K1150	R1151	R1152	R1155	G1156	F1157	P1158	P1159	S1160	A1161	C1164	L1165	L1166	D1167	L1168	V1169	K1170	W1171	L1172	H1175	C1176	Q1180	T1181	E1182	H1185	K1186	T1188	E1189	L1190	F1191	Y1192	K1193	F1194	V1195	L1198	R1202	N1205	L1206	W1207	G1208	K1209	D1210	V1211	L1212	K1213																																																																																																																																																																																										
A1072	F1073	K1074	A1081	F1082	M1083	H1084	I1085	Y1086	F1087	E1088	F1089	A1090	E1091	E1092	E1093	S1094	L1095	V1096	E1097	Q1098	F1099	V1100	F1101	E1102	A1103	V1105	T1106	Y1107	M1108	L1111	H1115	E1118	K1119	S1120	L1121	Q1122	Q1123	T1124	Q1125	Q1126	A1130	D1132	H1133	L1134	C1135	L1136	I1137	L1138	K1141	V1143																																																																																																																																																																																										
K1000	F1001	E1002	S1003	Q1004	T1005	T1006	L1009	I1013	G1016	I1017	P1020	S1023	T1024	L1025	D1026	D1027	F1028	C1029	G1030	T1033	R1034	E1035	F1036	L1037	K1038	W1039	S1040	I1041	Q1042	T1043	I1044	T1045	P1046	Q1047	Q1048	Q1049	E1050	K1051	S1052	N1055	T1056	K1057	S1058	L1059	F1060	K1061	L1062	L1063	Y1064	P1070	N1071																																																																																																																																																																																									
H935	S936	N937	V938	M939	F940	K941	L942	G943	K944	Q947	PRO	GLU	GLY	GLN	GLY	ALA	P956	P957	N958	Y959	Q960	L961	P962	K963	R964	T965	F966	L969	L970	R971	L972	A973	D977	Q978	V979	T980	R981	Q982	L983	Y984	L987	V988	M989	Q990	L991	F992	H993	W994	F995	T996	N997	K998	K999																																																																																																																																																																																							
K868	N869	L870	L871	T872	V873	S876	D877	E878	M879	M880	Y883	V884	A885	W886	D887	R888	E889	A890	R891	L892	S893	F894	A895	V896	P897	R898	R899	E900	M901	K902	P903	V904	I905	F906	L907	D908	V909	F910	L911	P912	R913	V914	T915	L919	R924	Q925	T926	K927	V928	W929	R930	F931	E932	L933	L934																																																																																																																																																																																					
I835	S836	N837	K838	V839	W839	L831	K832	H833	K836	L840	S847	L848	E849	E850	P851	R852	I853	V854	V855	Q857	M858	L859	G860	S861	V862	R863	G864	Q865	L866	N867	K868	N869	L870	T871	S872	A873	L874	E875	F876	G877	H878	V879	M880	D881	E882	F883	G884	H885	I886	J887	K888	L889	M890	N891	O892	P893	Q894	R895	S896	T897	U898	V899	W899	X899	Y899	Z899																																																																																																																																																																										
L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999

SER	F2561	K2433	S2370	M2307	V2242	N2176	L2099	L1976	H1901	D1834	L1766	F1699
ALA	L2562	V2434	F2371	S2308	E2243	N2177	L2100	I1977	G1902	A1835	C1767	T1700
ARG	L2563	C2435	P2372	F2309	C2244	G2178	V2101	F1978	S1903	L1836	R1768	S1701
TRP	E2564	L2374	P2373	P2307	W2245	G2179	K2102	E1979	C1904	E1837	E1769	L1702
PRO	T2565	T2439	A2375	R2311	W2246	E2180	H2103	N1980	I1905	R1838	Q1771	T1703
VAL	K2503	T2440	D2376	R2312	C2248	G2181	M2104	L1981	T1906	F1839	Q1772	L1707
GLY	D2504	K2441	R2377	G2314	L2249	I2182	H2105	I1982	E1907	F1840	V1773	E1708
GLN	V2506	K2442	F2378	E2313	S2250	H2183	R2106	D1983	G1908	F1841	V1774	E1709
GLM	S2569	M2443	M2379	K2314	G2251	I2215	P2107	L1984	N1909	M1774	M1775	E1710
ILE	P2570	M2444	P2380	V2316	P2252	M2185	PHE	K1985	E1910	L1710	E1776	R1711
ARG	D2571	P2444	N2380	G2315	P2253	M2186	SER	L1986	L1911	R1712	E1777	L1712
ALA	Y2572	K2445	A2381	A2317	Y2253	V2187	THR	ARG	L1912	V1844	L1777	
THR	P2573	L2446	V2382	K2318	R2254	G2187	GLY	TVR	K1913	D1846	S1781	V1713
GLN	N2574	K2447	F2383	A2319	L2255	E2188	VAL	ASN	K1914	A1847	F1782	L1714
GLM	P2575	P2448	F2384	A2320	L2256	I2189	GLN	PHE	L1915	I1848	R1783	E1715
GLN	E2576	V2449	L2385	L2323	F2257	V2190	TYR	PRO	L1916	D1849	R1784	Q1716
HIS	F2577	E2450	P2386	L2324	O2258	G2198	VAL	VAL	K1917	H1850	L1785	L1717
ASP	N2514	L2451	P2387	G2323	K2259	L2199	SER	GLU	L1918	L1851	I1785	L1718
PHE	L2517	R2452	K2388	L2324	F2260	L2125	TYR	VAL		K1852	A1786	V1719
THR	Q2518	E2453	F2389	G2324	S2261	S2195	SER	GLU	D1921	S1853		F1722
LEU	E2585	L2454	L2327	L2327	G2262	S2196	SER	VAL	A1922	R1854	C1791	
THR	F2586	L2455	Y2329	K2328	K2263	W2197	GLN	PRO	F1923	T1862	Q1794	Q1725
GLM	Q2587	N2456	L2393	Y2330	D2264	G2198	ASP	MET	T1924	F1863	S1736	S1726
THR	E2588	P2457	K2394	V2330	D2265	L2129	PRO	GLU	E1925	F1863	R1727	R1727
ALA	F2594	V2458	T2395	E2332	P2265	A2200	ARG	ARG	M1927	Q1866	L1797	E1728
ASP	W2595	V2459	L2396	R2333	S2267	T2201	PRO	LYS		T1867	L1798	F1729
GLY	S2526	E2460	C2397	R2334	K2268	P2202	ALA	LYS	A1928	T1868	E1799	P1730
ARG	H2527	F2461	L2398	M2335	D2269	T2203	THR	LYS	G1929	K1869	S1800	G1732
SER	ASP	S2462	E2399	T2336	N2270	K2207	GLY	TVR		V1801	G1731	P1731
SER	TRP	S2463	V2400	L2337	S2271	D2208	ARG	ILE	L1933	L1870	G1730	
PHE	ARG	H2464	V2401	E2338	Y2272	D2208	PHE	GLU	L1934	M1871	Y1802	T1733
ASP	P2532	T2465	L2402	E2339	G2273		ARG	ILE	E1935	G1872	E1803	F1734
TRP	S2533	S2466	C2403	S2340	L2274	L2211	ARG	ARG	E1936	Y1873	R1735	R1735
LEU	N2534	T2467	R2404	L2341	Q2275	A2212	ARG	LYS	R1937	F1874	F1736	F1736
THR	T2535	T2468	V2405	C2342	Q2276	N2213	GLU	GLU	R1938	K1875	R1806	N1737
VAL	L2536	C2469	E2406	L2343	I2279	R2214	GLN	ALA	L1939	L1876	K1807	N1738
GLY	D2537	R2470	G2407	L2344	Y2280	L2215	ARG	ARG	L1877	L1877	D1808	Y1739
SER	R2538	E2471	M2408	V2345	M2281	L2216	ASP	GLU	Y1940	D1878	D1809	V1740
THR	L2539	Q2472	T2409	A2346	A2282	N2217	PRO	ALA		D1879	P1810	D1741
ASP	L2540	M2473	E2410	K2347	N2283	F2218	THR	ALA	M1880	C1742	R1811	C1742
PRO	PHE	A2541	L2411	Q2348	D2284	L2219	VAL	ASN	C1947	Y1881	L1812	M1743
LEU	L2542	N2474	Y2412	L2349	L2285	M2220	HIS	GLY	A1948	S1882	S1813	K1744
VAL	N2543	L2476	F2413	K2350	P2286	K2221	ASP	ASP	I1949	R1883	F1814	K1745
ASP	S2544	L2477	Q2414	Q2351	P2287	T2153	ASP	SER	S1950	L1884	T1815	F1746
HIS	L2545	M2478	L2415	R2352	Y2288	V2223	VAL	ASP	V1951	F1885	R1816	L1747
THR	Y2546	W2479		K2353	P2289	F2224	LEU	GLY	I1952	K1886	Q1817	D1748
ALA	S2547	T2480	K2418		D2289	H2225	LEU	PRO		D1887	S1818	A1749
SER	P2548	H2481	F2420	E2357	Q2291	K2227	LEU	SER	L1959	F1888	F1819	V1750
PRO	K2549	D2482	V2421	D2358	G2292	R2228	GLU	TVR	K1960	V1889	V1820	
SER	I2550	K2483		K2359	I2294	A2229	M2085	MET	F1961	H1890	D1821	S1755
ASP	E2551	Y2484	M2424	F2360	Q2296	V2160	D2086	SER		A1891	R1822	P1756
SER	V2552	K2485	R2425	F2361	Q2296	A2161		SER	F1967	K1892	S1823	M1757
LEU	H2553		R2426	V2362	S2297	K2162	R2090	LEU	S1968	E1893	L1824	L1758
LEU	F2554	T2491	H2426	V2362	S2297	H2163	H2091	SER	E1969	S1894	L1825	L1759
PHE	L2555	R2492	R2427	C2363	E2298	N2234	C2093	TVR	K1970	T1895	T1826	E1760
ALA	S2556	D2492	D2428	C2363	Y2299	N2234	M2094	LEU	P1971	L1896	L1827	P1761
HIS	L2557	N2493	D2429	K2366	F2300	L2235		ALA	E1972	N1897	L1828	M1762
LYS	A2558	D2494	E2430	V2367	F2300	E2236	L2097	ASP	K1973	Q1898	M1829	T1763
THR	T2559	S2495	R2431	V2368	L2303	T2237	L2097	SER	N1974	F1899	H1830	E1764
SER	N2560	Q2496	Q2432	K2369	V2304	T2238	T2098	THR	L1975	F1900	C1831	V1765

P3677	K3613	S3546	F3465	GLN	S3305	R3232	A3171	G3106	L3041	Y2965	Q2889	S2814	GLU
G3678	Y3614	T3547	F3466	PRO	Y3315	K3235	K3172	I3107	P3042	S2966	I2890	G2815	ARG
L3680	A3616	H3548	R3467	SER		K3236	M3173	Q3108	Y3043	A2967	R2891	L2816	LEU
K3681	L3617	K3550	L3468	TRP			D3174			A2968	L2892	L2817	GLN
E3682	G3618	N3551	I3471	SER	K3319	K3239	P3175	M3112	R3046	A2969	L2893	G2818	ARG
C3683	D3619	K3552		CYS	I3320	K3241	N3177	N3113	K3048	K2970	E2819	E2819	ALA
S3684	P3620	E3553	Y3475	GLY	L3321		I3178	Y3114	L3049	Q2971	M2820	M2820	PRO
P3685	L3625	F3554	F3476	PRO	A3322	D3244	W3179	S3115	K3050	L2976	D2822	D2822	LEU
M3687	G3626	V3555	E3477	A3406	F3323	S3245	W3178	S3116	L3051		F2823	F2823	LYS
S3688	A3627	A3556	E3478		R3324	A3246	D3181	S3117	L3052	Q2979	L2824	L2824	VAL
D3689	F3628	R3557	T3479	I3410	R3327	R3247	I3182	D3118	L3053	Q2979	T2825	T2825	GLY
F3690	R3629	K3558	E3486	Y3413			I3183	Y3119	Q3054	M2981			PRO
K3691	R3630	S3560	I3487	M3414	T3333	N3250	T3184	L3120	G3055	Y2982	K2829	K2829	ASP
V3692	K3631	S3468	S3488		Y3334	N3251	N3185	L3121	E3056	D2983	M2831	M2831	PHE
F3693	F3632	Q3564	S3489	F3419	R3335	S3252	R3186	H3122	Q3059	T2986	K2835	K2835	LYS
F3694	L3633	G3565	F3490	G3420	R3336	S3253	C3187	Q3123	S3060	T2987			LYS
L3695	D3634	G3566	P3491	D3421	I3337	L3254	F3188	S3124	L3061	E2988			ARG
R3696	T3635	V3567	C3492	Q3422		A3255	F3189	R3125	L3062	E2989			LEU
	F3636	K3493	C3492	Q3422	A3340	K3256	S3191	L3126	T3063	E2990			GLY
E3700	G3637	Q3568	Q3494	L3424	L3341	L3258	K3192	K3128	F3064	K2991	M2845	M2845	LEU
I3701	K3638	D3570	F3495	R3425	S3342	L3259	I3193	L3129	F3065	D2992	Q2768	Q2768	PRO
	E3639	F3571	I3496	K3426	S3343	K3260	E3194	Q3130	K3066	F2993	V2769	V2769	GLY
Y3705	F3640	I3572	S3497	E3429		E3261	E3195		K3067	Y2994			ASP
D3706	D3641	K3498	W3498	ASN	E3352	L3262	K3196	Q3133	A3068	E2995	S2849	S2849	GLU
G3707	K3642	L3575	I3499	ALA	E3353	H3263	THR	A3134	E3072	L2996	T2850	T2850	VAL
R3708	H3643	D3576	S3500	ALA	D3354	K3264	PRO	L3135	Q3073	T2985	R2776	R2776	ASP
F3709	F3644	Q3577	H3501	SER	R3355	S3265	LEU	T3136	L3074	P2852	G2777	G2777	ASN
K3710	G3645	M3502	M3502	VAL	A3356	E3266	VAL	E3137	Q3074	P2853	D2779	D2779	LYS
L3711	K3646	S3579	V3503	ILE	R3357	K3267	PRO	L3138	K3075	P2854	L2780	L2780	VAL
G3712	G3647	N3580		ASP		T3268	GLU	Q3139	A3076	V2855	P2781	P2781	LYS
P3713	G3648	L3583	D3507	SER	L3360	R3269	ASP	E3140	I3077	S2856	D2782	D2782	GLY
Y3715	S3649	K3584	A3511	ALA	E3361	D3270	ASN	F3141	L3078	K3004	D2857	D2857	ALA
H3716	L3650	F3585	V3514	LEU	G3364	W3272	MET	S3143	E3079	A3006	I2783	I2783	ALA
V3717	L3652	K3586	Q3515	GLN	S3365	L3273	ASN	F3144	L3080	E3007	Q2784	Q2784	GLY
R3718	R3653	D3587	H3516	A3441	S3366	V3274	VAL	T3145	H3081	D2859	I2785	I2785	ARG
I3719	K3654	W3588		Y3442	S3367	S3275	ASP	S3146	Y3082	K3009	K2786	K2786	THR
A3720	K3655	S3589		P3443	S3367	W3276	GLN	K3147	E3085	S3010	H2787	H2787	ASP
G3721	L3656	N3590	E3519	V3446	V3373	V3277	ASP	Q3148	L3086	E3012	T2791	T2791	LEU
F3722	S3657	D3591	E3520	V3447	I3374	Q3278	GLY	G3149	S3087	L3011	T2792	T2792	ARG
D3723	D3658	V3592	V3521	E3448	L3377	S3279	PRO	N3150	L3088	S3018	P2793	P2793	ARG
E3724	F3659	R3593	I3521	K3449	L3378	R3282	SER	L3151	L3089	D3020	L2794	L2794	ARG
R3725	N3660	E3595	F3525	M3450	Q3379	L3283	ASP	S3152	Y3090	D3026	Q2795	Q2795	ARG
T3726	L3662	L3596	Q3527	L3451	F3382		ARG	Q3154	L3092	L3027	A2796	A2796	PHE
M3728	T3663	V3601	A3528	K3452	F3382	R3287	MET	P3155	Q3093	N3028	V2797	V2797	MET
M3729	N3664	N3602	I3529	A3453	R3382	S3288	GLU	L3157	D3095	K3029	Q2798	Q2798	ASP
A3730	K3665	K3603	V3530	L3454	L3385	R3289	VAL	L3157	V3096	K3030	Q2799	Q2799	ASP
	L3666	K3604	F3531	K3455			GLN	K3158		W3031	D2801	D2801	GLN
R3733	L3667	K3605	P3532	L3456	A3388	E3295	GLU				R2800	R2800	GLN
R3734	L3668	N3605	F3533	N3457	V3389		GLN	L3161	T2953	L2881	P2802	P2802	LYS
P3735	K3669	L3606	L3534	S3458	Q3390	L3298	GLN	W3164	A3099	L2882	I2803	I2803	LYS
R3736	N3670	E3607	I3535	K3459	A3391	T3299	GLU		K3100	S2883	I2804	I2804	SER
R3737	N3671	K3608		N3460	A3392	V3300	GLU		Y3101	L2884	A2805	A2805	LEU
I3738	K3672	M3609	Y3540	A3481	E3393	L3301	D3226	R3167	Y3102	Q3037	K2806	K2806	MET
I3739	K3675	Y3610	D3544	R3462	E3394	K3302	I3227	Y3168	I3103	Q3038	Q2886	Q2886	TYR
R3741			T3545	K3464	E3395	T3303	S3228	P3169	Q3104	T3039	S2963	S2963	ALA
					A3396	V3304	I3231	D3170	N3105	Y3040	D2964	D2964	ARG



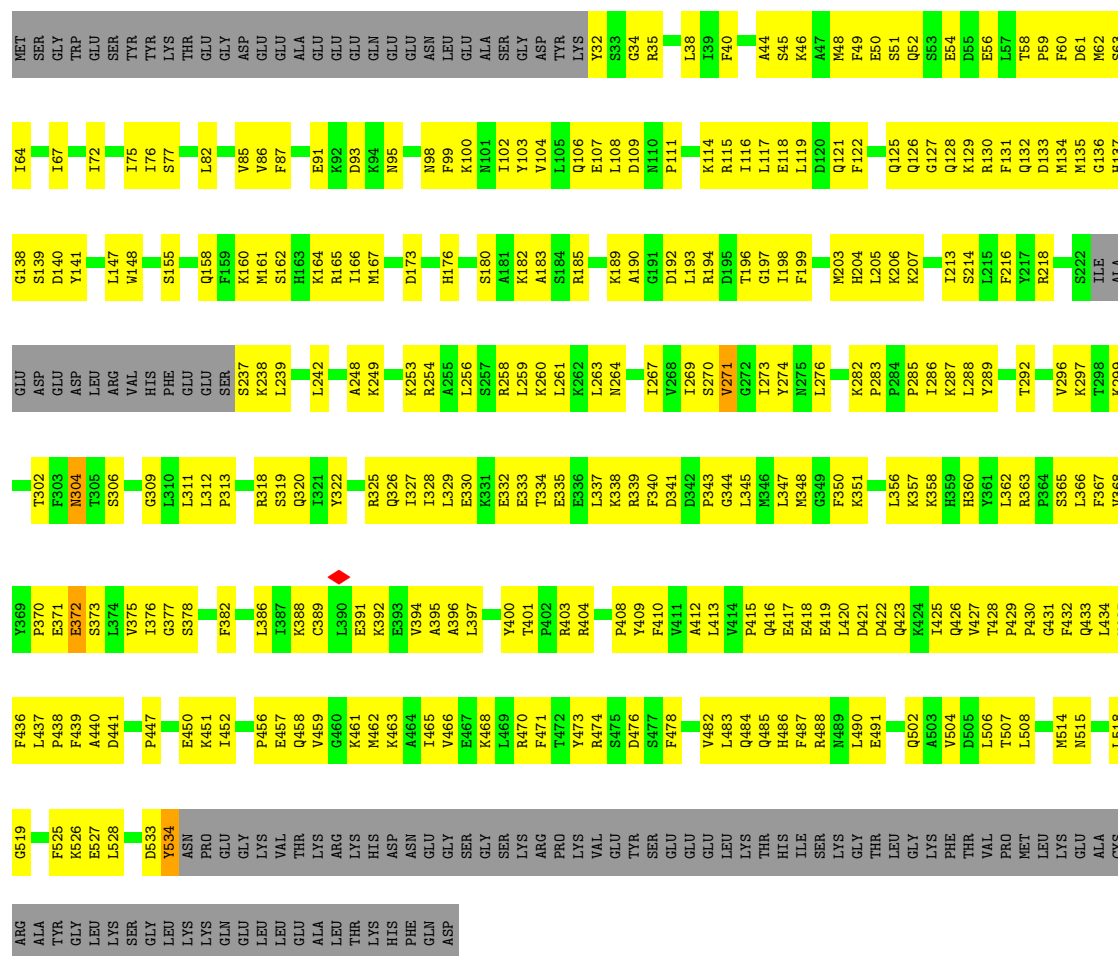
Category	Percentage
Very bad	31%
Bad	49%
Good	20%



THR HIS ILE SER LYS GLY THR LEU LYS PHE THR VAL PRO MET LEU LYS GLU ALA CYS ARG ALA TYR GLY LEU LYS GLN ASP

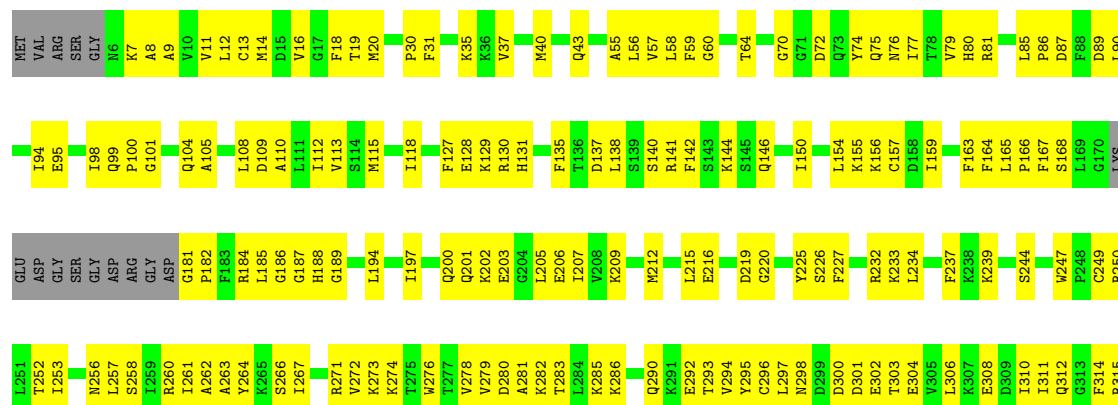
• Molecule 2: X-ray repair cross-complementing protein 6

Chain G: 35% 45% 20%

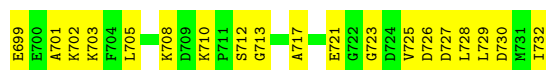


• Molecule 3: X-ray repair cross-complementing protein 5

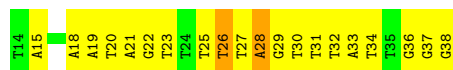
Chain C: 43% 53%







• Molecule 4: DNA (25-MER)



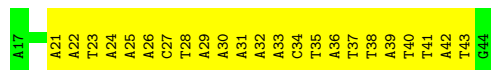
• Molecule 5: DNA (27-MER)



• Molecule 6: DNA (26-MER)



• Molecule 7: DNA (28-MER)



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	10808	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	52.97	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.469	Depositor
Minimum map value	-0.111	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.020	Depositor
Recommended contour level	0.085	Depositor
Map size ($\text{\AA}$)	588.0, 588.0, 588.0	wwPDB
Map dimensions	560, 560, 560	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.05, 1.05, 1.05	Depositor

5 Model quality

5.1 Standard geometry

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	0.28	0/29462	0.55	1/39939 (0.0%)
1	F	0.25	0/29464	0.49	1/39913 (0.0%)
2	B	0.25	0/3864	0.52	0/5226
2	G	0.22	0/3871	0.49	0/5236
3	C	0.19	0/5595	0.41	0/7557
3	H	0.19	0/5625	0.45	1/7589 (0.0%)
4	J	0.33	0/570	0.55	2/876 (0.2%)
5	I	0.31	0/620	0.39	0/953
6	D	0.38	0/591	0.47	0/908
7	E	0.33	0/644	0.39	0/990
All	All	0.26	0/80306	0.50	5/109187 (0.0%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	2259	LYS	CB-CG-CD	6.56	126.38	111.30
4	J	28	DA	C2'-C3'-O3'	-6.37	101.95	111.50
1	A	212	VAL	N-CA-C	-5.83	105.70	112.98
4	J	26	DT	C2'-C3'-O3'	-5.34	103.49	111.50
3	H	686	ILE	N-CA-C	-5.12	108.85	113.71

There are no chirality outliers.

There are no planarity outliers.

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	29018	0	28461	2444	0
1	F	29012	0	28652	2271	0
2	B	3789	0	3721	359	0
2	G	3797	0	3734	326	0
3	C	5490	0	5397	402	0
3	H	5517	0	5468	397	0
4	J	509	0	271	33	0
5	I	552	0	301	35	0
6	D	528	0	282	49	0
7	E	573	0	312	48	0
All	All	78785	0	76599	6108	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 40.

All (6108) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3443:PRO:HB2	1:A:3478:GLU:CB	1.66	1.26
2:G:271:VAL:HG12	2:G:370:PRO:CA	1.72	1.20
1:A:446:PHE:H	1:A:447:PRO:CD	1.54	1.19
2:G:271:VAL:CG1	2:G:370:PRO:HA	1.72	1.17
2:G:273:ILE:CG1	2:G:368:VAL:HG22	1.75	1.13
1:F:3447:VAL:HG21	1:F:3478:GLU:O	1.51	1.10
2:G:273:ILE:HG13	2:G:368:VAL:HG22	1.10	1.10
1:A:1537:VAL:HG23	1:A:1553:PHE:O	1.53	1.07
1:A:449:TYR:CD2	1:A:453:MET:HE3	1.89	1.07
2:B:271:VAL:HG12	2:B:370:PRO:HA	1.08	1.07
2:G:273:ILE:HG13	2:G:368:VAL:CG2	1.86	1.05
1:F:240:GLU:HG2	1:F:242:PRO:HD2	1.37	1.04
1:A:408:TYR:HD1	1:A:449:TYR:CZ	1.78	1.01
1:A:446:PHE:H	1:A:447:PRO:HD2	1.24	1.01
1:A:3729:MET:HE1	1:A:3737:ARG:CB	1.91	1.01
1:A:1540:THR:HG1	1:A:1549:SER:N	1.59	1.00
1:A:3315:TYR:HA	1:A:3318:LYS:HB3	1.45	0.98
1:A:449:TYR:HD2	1:A:453:MET:HE3	1.26	0.98
3:H:671:LEU:HB2	3:H:674:PHE:HB3	1.46	0.97
2:G:271:VAL:HG12	2:G:370:PRO:HA	0.98	0.96
1:A:3514:VAL:O	1:A:3518:VAL:HG23	1.65	0.96
2:G:95:ASN:HD21	2:G:99:PHE:N	1.63	0.95
1:A:449:TYR:HD2	1:A:453:MET:CE	1.79	0.95
2:G:95:ASN:ND2	2:G:99:PHE:H	1.63	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3026:ASP:HB2	1:A:3030:ILE:HD13	1.47	0.94
2:G:93:ASP:OD2	2:G:100:LYS:HA	1.68	0.93
1:A:3235:LYS:HA	1:A:3238:MET:HE2	1.51	0.93
1:A:3008:TRP:HA	1:A:3011:LEU:HD13	1.46	0.93
1:A:408:TYR:CD1	1:A:449:TYR:CZ	2.58	0.92
1:A:1400:VAL:HG11	1:A:1460:ARG:HG3	1.50	0.92
2:G:416:GLN:HB3	2:G:431:GLY:H	1.33	0.92
1:A:3163:THR:HG22	1:A:3167:ARG:HH12	1.32	0.92
1:A:3750:PHE:HA	1:A:3804:GLU:HA	1.53	0.91
1:A:3825:LYS:HA	1:A:3829:LEU:HB3	1.54	0.90
1:F:421:LEU:HD22	1:F:467:ALA:HB1	1.54	0.90
1:A:446:PHE:N	1:A:447:PRO:CD	2.33	0.90
6:D:28:DA:N1	7:E:28:DT:N3	2.20	0.89
1:A:483:VAL:HG21	1:A:568:PHE:HA	1.52	0.89
3:H:77:ILE:HD11	3:H:109:ASP:HB3	1.53	0.89
2:B:271:VAL:HG12	2:B:370:PRO:CA	1.99	0.89
1:A:2298:GLU:HA	1:A:2301:GLN:HG2	1.53	0.89
2:B:271:VAL:CG1	2:B:370:PRO:HA	2.00	0.89
1:A:793:LEU:HB3	1:A:870:LEU:HB3	1.54	0.89
6:D:32:DT:H3	7:E:24:DA:N6	1.70	0.89
1:A:1102:GLU:HA	1:A:1154:PRO:HB3	1.55	0.88
1:A:152:LEU:HA	1:A:155:LYS:HZ3	1.38	0.88
2:G:318:ARG:HB3	3:H:276:TRP:HB3	1.52	0.88
1:A:3361:GLU:HB2	1:A:3366:SER:HA	1.53	0.88
3:H:136:THR:HG22	3:H:138:LEU:H	1.36	0.88
1:A:3161:LEU:HA	1:A:3164:TRP:HE3	1.39	0.88
2:B:339:ARG:HG3	2:B:404:ARG:HG2	1.55	0.87
1:A:974:CYS:HA	1:A:1028:PHE:HE2	1.39	0.87
1:A:407:VAL:O	1:A:449:TYR:HE2	1.57	0.86
1:A:1092:GLU:HG3	1:A:1095:LEU:HB2	1.55	0.86
1:F:1827:LEU:HA	1:F:1830:HIS:HB3	1.57	0.86
1:F:2376:ASP:HA	1:F:2379:MET:HB2	1.58	0.86
1:F:2115:GLU:HA	1:F:2119:PRO:HA	1.57	0.86
4:J:22:DG:N1	5:I:34:DC:N3	2.24	0.86
1:A:4113:ASP:HB3	1:A:4116:ILE:HG22	1.58	0.85
1:A:656:GLN:HA	1:A:659:ARG:HB2	1.57	0.85
1:F:20:SER:HB2	1:F:69:VAL:HG11	1.57	0.85
1:F:1226:GLY:HA2	1:F:1231:GLN:HB2	1.56	0.85
2:B:416:GLN:HB3	2:B:431:GLY:H	1.41	0.85
1:A:386:VAL:HG12	1:A:390:GLN:HE22	1.41	0.85
6:D:33:DA:H2	7:E:24:DA:N1	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:326:MET:HA	1:F:329:LYS:HE2	1.57	0.84
1:A:1210:ASP:HA	1:A:1213:LYS:HD3	1.58	0.84
1:A:3072:GLU:HG3	1:A:3073:LEU:H	1.43	0.84
1:F:2440:TYR:HA	1:F:2443:MET:HE3	1.60	0.84
1:A:446:PHE:H	1:A:447:PRO:HD3	1.42	0.84
1:A:2438:ILE:HG22	1:A:2442:MET:HE1	1.59	0.84
1:A:2534:ASN:HB3	1:A:2537:ASP:HB3	1.59	0.84
1:A:959:TYR:HA	1:A:962:TYR:HD2	1.40	0.83
1:A:2575:PRO:HB3	1:A:2784:GLN:HA	1.61	0.83
1:F:3855:TYR:HA	1:F:3858:MET:HE2	1.60	0.83
2:B:203:MET:HE2	2:B:239:LEU:HB3	1.60	0.83
2:B:462:MET:HA	2:B:465:ILE:HG12	1.60	0.83
1:F:755:ALA:HB1	1:F:765:LEU:HD11	1.61	0.83
1:F:2851:PHE:HD2	1:F:2854:PHE:HB2	1.41	0.83
2:G:95:ASN:HD21	2:G:99:PHE:H	0.85	0.83
2:B:262:LYS:HE3	2:B:346:MET:HA	1.59	0.83
1:A:895:ALA:HA	1:A:904:VAL:HA	1.61	0.83
1:A:3451:LEU:HD13	1:A:3486:GLU:CB	2.07	0.82
6:D:33:DA:C2	7:E:24:DA:N1	2.47	0.82
1:A:2965:TYR:HB3	1:A:3001:CYS:HB2	1.60	0.82
1:F:925:GLN:HE22	1:F:2769:VAL:HA	1.44	0.82
3:H:56:LEU:HB3	3:H:81:ARG:HB3	1.61	0.82
1:A:408:TYR:CE1	1:A:449:TYR:CE1	2.68	0.82
1:F:3354:ASP:H	1:F:3357:ARG:HH21	1.24	0.82
1:A:1686:LEU:HA	1:A:1689:LYS:HE2	1.61	0.82
1:F:3630:ARG:HH21	1:F:3634:GLN:HB3	1.45	0.81
1:F:3710:LYS:NZ	1:F:3711:PRO:O	2.13	0.81
2:G:302:THR:HG21	2:G:311:LEU:HD23	1.61	0.81
1:A:2158:ARG:HH22	1:A:2196:TRP:HB3	1.46	0.81
1:A:3842:TRP:HA	1:A:3845:LYS:HE2	1.60	0.81
7:E:41:DT:H2"	7:E:42:DA:N7	1.95	0.81
2:B:95:ASN:HD22	2:B:102:ILE:HG21	1.45	0.81
1:A:888:ARG:HE	1:A:3889:ARG:HG3	1.44	0.81
2:B:374:LEU:HB2	3:C:542:ALA:HB3	1.63	0.81
1:F:339:GLN:HE22	3:H:565:LYS:H	1.27	0.81
1:F:793:LEU:HD22	1:F:869:ASN:HB2	1.61	0.81
1:A:175:TYR:HB3	1:A:227:LEU:HD12	1.62	0.80
1:A:2945:SER:HB2	1:A:3975:LYS:HE3	1.62	0.80
1:F:3046:ARG:HG2	1:F:3050:LYS:HZ2	1.46	0.80
1:A:736:LEU:HB3	1:A:740:ILE:HD11	1.64	0.80
1:A:3807:GLU:OE2	1:A:3808:ASN:ND2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:722:LYS:HA	1:F:726:LEU:HD23	1.64	0.80
2:B:304:ASN:HB3	2:B:311:LEU:HD21	1.63	0.80
3:H:46:VAL:HG11	3:H:91:LEU:HD11	1.62	0.80
1:A:1242:LEU:HD22	1:A:1311:LYS:HB2	1.63	0.80
1:F:145:ASP:HA	1:F:148:LYS:HE2	1.62	0.80
1:F:3414:MET:SD	1:F:3464:LYS:NZ	2.54	0.80
1:F:3882:LEU:HA	1:F:3885:ARG:HE	1.46	0.79
2:G:38:LEU:HD11	2:G:167:MET:HG2	1.62	0.79
2:G:271:VAL:HA	2:G:371:GLU:H	1.47	0.79
1:A:79:ARG:HH21	1:A:124:LYS:H	1.30	0.79
1:A:3884:LYS:HE2	1:A:3970:LEU:HD23	1.64	0.79
1:F:13:LEU:HD22	1:F:59:PHE:HD1	1.47	0.79
1:A:1537:VAL:CG2	1:A:1553:PHE:O	2.29	0.79
1:A:2525:TRP:HB3	1:A:2561:PHE:HZ	1.46	0.79
1:F:2938:VAL:HG13	1:F:3979:LEU:HD21	1.63	0.79
3:H:552:GLU:HG3	3:H:553:ILE:H	1.47	0.79
1:F:1755:SER:OG	1:F:1757:MET:SD	2.40	0.79
1:A:892:LEU:HG	1:A:907:LEU:HD21	1.65	0.78
1:A:1958:GLU:HG3	1:A:1960:LYS:H	1.49	0.78
1:F:1915:LEU:HA	1:F:1918:LEU:HB2	1.64	0.78
1:F:2466:SER:HG	1:F:2469:CYS:HG	1.22	0.78
2:G:386:LEU:HD13	2:G:430:PRO:HB2	1.63	0.78
1:F:1071:ASN:HB3	1:F:1074:LYS:HG2	1.64	0.78
1:F:1448:LEU:HD11	1:F:1514:LEU:HD21	1.66	0.78
3:C:365:PHE:HB2	3:C:368:ARG:HH12	1.47	0.78
1:A:2938:VAL:O	1:A:2942:ILE:HG22	1.83	0.78
2:B:84:ALA:HB2	2:B:108:LEU:HA	1.66	0.78
1:A:2540:LEU:HD13	1:A:2543:ASN:HD22	1.49	0.78
1:F:1742:CYS:HA	1:F:1745:LYS:HE2	1.66	0.78
1:F:2526:SER:HA	1:F:2531:LEU:HD12	1.66	0.78
1:A:393:LYS:HB2	1:A:397:LEU:HD23	1.64	0.78
1:F:3040:TYR:HA	1:F:3043:TYR:HD2	1.49	0.78
1:F:3822:GLN:HA	1:F:3825:LYS:HE2	1.66	0.77
1:A:637:LYS:NZ	1:A:638:GLN:O	2.17	0.77
1:F:3958:LEU:HD21	1:F:4081:ALA:HA	1.65	0.77
2:G:302:THR:CG2	2:G:311:LEU:HD23	2.13	0.77
1:A:2133:LEU:HD11	1:A:2171:LEU:HD21	1.66	0.77
1:F:1367:HIS:NE2	1:F:1371:VAL:HG11	2.00	0.77
1:A:741:ILE:HA	1:A:748:TYR:HE2	1.49	0.77
1:A:3379:GLN:HA	1:A:3382:PHE:HB2	1.64	0.77
1:F:2916:LEU:HD21	1:F:2987:THR:HG21	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:LEU:HB2	1:A:441:MET:HE1	1.68	0.76
1:A:1630:ASP:HA	1:A:1633:TRP:HE1	1.50	0.76
1:F:3467:ARG:HH22	1:F:3471:ILE:HD12	1.50	0.76
1:A:3606:ILE:HA	1:A:3609:MET:HE2	1.67	0.76
1:F:2133:LEU:HD21	1:F:2171:LEU:HD13	1.67	0.76
2:B:421:ASP:HB2	2:B:425:ILE:HB	1.68	0.76
1:F:1096:VAL:HG23	1:F:1141:LYS:HZ3	1.48	0.76
1:A:235:THR:HG23	1:A:236:LYS:HG2	1.67	0.76
1:A:3603:LYS:HE3	1:A:3652:LEU:HD13	1.68	0.76
3:C:357:MET:HE1	3:C:425:PRO:HA	1.67	0.76
1:F:1759:LEU:HD13	1:F:1797:LEU:HD12	1.67	0.76
1:A:2254:ARG:HH12	1:A:2294:ILE:HG12	1.51	0.76
1:F:352:VAL:HG23	1:F:353:ASP:H	1.51	0.76
1:F:1743:MET:HA	1:F:1746:PHE:HD2	1.50	0.76
1:F:2328:ARG:HD2	1:F:2333:ARG:HD3	1.67	0.76
1:A:3357:ARG:HG3	1:A:3360:LEU:HD12	1.67	0.76
1:F:1208:LEU:HG	1:F:1212:LEU:HD23	1.67	0.76
1:F:2103:HIS:HA	1:F:2106:ARG:HB2	1.67	0.76
1:A:408:TYR:CD1	1:A:449:TYR:CE1	2.73	0.76
2:B:85:VAL:H	2:B:106:GLN:HB2	1.50	0.76
1:F:667:TYR:HB2	1:F:728:SER:HB2	1.64	0.76
1:F:959:TYR:HB2	1:F:1004:GLN:HE22	1.50	0.76
3:H:56:LEU:HG	3:H:80:HIS:HB3	1.67	0.76
1:F:877:ASP:HA	1:F:880:MET:HB2	1.68	0.75
1:A:2376:ASP:OD1	1:A:2377:ARG:NH1	2.19	0.75
1:A:3930:VAL:HG22	1:A:3937:VAL:HG12	1.66	0.75
1:F:2506:LEU:HB3	1:F:2525:TRP:HH2	1.51	0.75
3:H:484:ASN:HB3	3:H:486:ARG:HG2	1.67	0.75
1:A:1271:ILE:HD13	1:A:1278:ALA:H	1.51	0.75
1:F:1786:ALA:H	1:F:1830:HIS:CE1	2.03	0.75
1:F:3164:TRP:HB3	1:F:3186:ARG:HH21	1.50	0.75
1:A:472:GLY:HA2	1:A:475:LEU:HB2	1.68	0.75
1:A:585:ILE:HG23	1:A:611:ASN:HB3	1.66	0.75
1:A:2500:LYS:HA	1:A:2503:LYS:HE2	1.67	0.75
1:F:3969:ASN:HD22	1:F:3972:LEU:HD21	1.51	0.75
1:F:474:VAL:HA	1:F:477:ASN:HD21	1.50	0.75
1:F:1848:ILE:O	1:F:1852:LYS:NZ	2.20	0.75
2:B:271:VAL:HA	2:B:371:GLU:H	1.51	0.75
1:F:1625:HIS:HA	1:F:1628:LYS:HZ3	1.50	0.75
1:F:3187:CYS:HA	1:F:3190:LEU:HD12	1.67	0.75
2:G:320:GLN:HB2	2:G:327:ILE:HB	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:11:VAL:HG23	3:C:55:ALA:HB3	1.67	0.75
2:B:485:GLN:HE22	2:B:502:GLN:HA	1.52	0.75
1:F:3026:ASP:O	1:F:3031:TRP:NE1	2.20	0.75
2:G:421:ASP:HB2	2:G:425:ILE:HB	1.68	0.75
1:F:71:LYS:HG3	1:F:73:LEU:HD22	1.69	0.74
1:A:850:GLU:HA	1:A:853:ILE:HD12	1.66	0.74
1:F:3352:GLU:O	1:F:3357:ARG:NH2	2.20	0.74
1:F:3980:MET:HA	1:F:3983:ILE:HG22	1.69	0.74
2:G:128:GLN:OE1	2:G:132:GLN:NE2	2.20	0.74
1:A:585:ILE:HG22	1:A:586:GLN:HG3	1.69	0.74
1:F:1867:ILE:HG13	1:F:1871:MET:HE3	1.69	0.74
1:A:2157:PHE:HB2	1:A:2160:TYR:HB2	1.69	0.74
1:A:3589:SER:HB2	1:A:3593:ARG:HH12	1.52	0.74
1:F:36:ARG:NE	1:F:36:ARG:HA	2.01	0.74
1:A:1357:LYS:O	1:A:1361:LYS:NZ	2.21	0.74
1:A:3375:ALA:O	1:A:3379:GLN:NE2	2.20	0.74
3:C:342:VAL:HA	3:C:393:VAL:HA	1.67	0.74
1:F:2341:LEU:HD23	1:F:2344:LEU:HD12	1.70	0.74
1:F:3031:TRP:HB3	1:F:3041:LEU:HD11	1.70	0.74
1:F:708:VAL:HG12	1:F:712:LYS:HZ1	1.53	0.74
1:F:2346:ALA:O	1:F:2350:LYS:NZ	2.21	0.74
2:B:140:ASP:OD1	2:B:141:TYR:N	2.20	0.74
3:C:688:LYS:HB3	3:C:696:VAL:HB	1.69	0.74
1:A:1071:ASN:HB3	1:A:1074:LYS:HD3	1.69	0.74
1:A:3462:ARG:HH12	1:A:3708:ARG:HA	1.52	0.74
1:A:3869:THR:HG22	1:A:3872:ARG:HH12	1.53	0.74
2:B:363:ARG:NH2	3:C:359:ASN:O	2.21	0.74
1:F:738:HIS:HA	1:F:776:TRP:CD1	2.23	0.74
1:F:2443:MET:HE1	1:F:2476:ILE:HG12	1.70	0.74
3:H:234:LEU:HD13	3:H:481:LYS:HZ1	1.53	0.74
3:H:679:VAL:HG21	3:H:705:LEU:HD11	1.70	0.74
3:C:72:ASP:HA	3:C:75:GLN:HE21	1.52	0.74
1:F:2430:GLU:HA	1:F:2433:LYS:HE2	1.70	0.74
1:F:4045:CYS:HA	1:F:4048:LYS:HE2	1.68	0.74
1:A:240:GLU:HG2	1:A:242:PRO:HD2	1.70	0.73
2:B:170:THR:HG22	2:B:202:LEU:HD11	1.70	0.73
2:G:339:ARG:HG3	2:G:404:ARG:HG3	1.70	0.73
1:A:3161:LEU:HA	1:A:3164:TRP:CE3	2.23	0.73
1:F:10:CYS:SG	1:F:11:SER:N	2.59	0.73
1:F:339:GLN:NE2	3:H:566:LYS:H	1.85	0.73
1:F:3095:ASP:HB3	1:F:3098:ARG:HH12	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:115:MET:HG2	3:H:153:SER:HB3	1.69	0.73
1:A:1840:PHE:HE2	1:A:1898:GLN:HB2	1.53	0.73
3:C:186:GLY:HA3	3:C:232:ARG:HG3	1.69	0.73
1:A:407:VAL:HB	1:A:449:TYR:OH	1.88	0.73
1:A:1392:MET:HA	1:A:1395:LEU:HG	1.70	0.73
2:B:376:ILE:HB	3:C:540:ILE:HG13	1.70	0.73
2:B:528:LEU:HD21	3:C:372:ALA:HB1	1.70	0.73
1:F:70:ARG:HE	1:F:82:ARG:HG3	1.52	0.73
1:A:81:CYS:HB2	1:A:82:ARG:HH11	1.53	0.73
1:A:370:ALA:HB2	1:A:420:VAL:HG12	1.69	0.73
1:F:1371:VAL:HA	1:F:1374:GLN:OE1	1.88	0.73
1:F:3052:LEU:HA	1:F:3056:GLU:HB3	1.71	0.73
3:H:168:SER:H	3:H:192:PHE:HB2	1.52	0.73
1:A:1708:GLU:HB2	1:A:1712:ARG:HH12	1.51	0.73
1:A:3982:SER:O	1:A:3986:HIS:ND1	2.21	0.73
2:B:320:GLN:HB2	2:B:327:ILE:HB	1.69	0.73
2:B:358:LYS:HB3	3:C:409:PHE:HE2	1.53	0.73
1:A:82:ARG:H	1:A:82:ARG:HD2	1.54	0.73
2:B:470:ARG:HE	3:C:346:CYS:HA	1.54	0.73
1:F:2389:PHE:HB2	1:F:2394:LYS:HD3	1.70	0.73
2:G:128:GLN:O	2:G:132:GLN:NE2	2.21	0.73
1:A:3953:LEU:HD11	1:A:4027:TRP:HB2	1.69	0.73
2:B:484:GLN:HE22	2:B:485:GLN:HE21	1.34	0.73
1:F:1528:LEU:HD13	1:F:1531:LEU:HD12	1.71	0.73
4:J:36:DG:H2''	4:J:37:DG:H5''	1.70	0.73
1:A:180:LEU:HA	1:A:230:LEU:HD22	1.70	0.73
1:A:3282:ARG:HH12	1:A:3329:LEU:HD23	1.51	0.73
1:F:623:PHE:HE2	1:F:663:ILE:HG21	1.54	0.73
1:F:1743:MET:HA	1:F:1746:PHE:CD2	2.24	0.73
6:D:25:DT:H2''	6:D:26:DT:H5''	1.69	0.73
1:A:1391:VAL:HA	1:A:1394:HIS:HB3	1.69	0.72
1:A:2383:PHE:HA	1:A:2386:LEU:HD23	1.71	0.72
1:F:1795:VAL:HG13	1:F:1839:PHE:HB2	1.70	0.72
2:B:114:LYS:HA	2:B:117:LEU:HD12	1.68	0.72
1:F:3602:ASN:ND2	1:F:3651:LEU:O	2.22	0.72
1:A:19:LEU:HD12	1:A:34:LEU:HD23	1.70	0.72
1:A:1145:LEU:HB3	1:A:1165:LEU:HD21	1.71	0.72
2:B:343:PRO:HG3	2:B:403:ARG:HA	1.69	0.72
1:F:66:LEU:HD12	1:F:69:VAL:HB	1.70	0.72
1:F:864:GLY:HA3	1:F:3169:PRO:HA	1.70	0.72
3:H:280:ASP:HB2	3:H:283:THR:HG22	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:546:ASP:OD1	3:H:547:GLN:N	2.22	0.72
1:A:656:GLN:OE1	1:A:656:GLN:N	2.20	0.72
1:A:1153:LEU:HD11	1:A:1157:PHE:HB2	1.71	0.72
3:C:656:ASN:HA	3:C:659:LEU:HD12	1.71	0.72
1:F:1164:CYS:SG	1:F:1165:LEU:N	2.59	0.72
1:F:1653:LEU:HD21	1:F:1698:PHE:HB2	1.71	0.72
1:F:3588:TRP:HB2	1:F:3612:ARG:HH12	1.55	0.72
1:F:3812:LEU:HD22	1:F:3925:LEU:HD21	1.72	0.72
1:F:2257:PHE:HA	1:F:2260:PHE:CE2	2.24	0.72
1:A:4083:GLY:HA3	1:A:4088:ASN:HD22	1.54	0.72
1:F:1039:TRP:CD1	1:F:1042:LYS:HE3	2.25	0.72
1:A:438:LEU:O	1:A:442:GLN:NE2	2.23	0.72
1:A:3163:THR:HG22	1:A:3167:ARG:NH1	2.04	0.72
1:A:3554:PHE:HA	1:A:3557:ARG:HB3	1.72	0.72
1:F:1404:LYS:HA	1:F:1407:LYS:HZ3	1.54	0.72
1:F:2312:TYR:HD2	1:F:2315:VAL:HG23	1.55	0.72
1:F:3856:MET:SD	1:F:4077:TYR:OH	2.45	0.72
2:G:273:ILE:CG1	2:G:368:VAL:CG2	2.58	0.72
6:D:21:DA:N1	7:E:37:DT:N3	2.37	0.72
1:A:2205:VAL:HG13	1:A:2208:ASP:H	1.54	0.71
2:B:353:LEU:HB2	2:B:393:GLU:HG3	1.71	0.71
1:F:493:LYS:O	1:F:625:ASN:ND2	2.23	0.71
4:J:29:DG:H2"	4:J:30:DT:H5"	1.72	0.71
1:A:968:VAL:HA	1:A:971:ARG:HD3	1.71	0.71
1:A:1540:THR:OG1	1:A:1549:SER:N	2.22	0.71
1:A:2380:ASN:OD1	1:A:2381:ALA:N	2.22	0.71
1:A:4116:ILE:HA	1:A:4119:ARG:HB2	1.72	0.71
1:F:1374:GLN:O	1:F:1378:GLU:N	2.23	0.71
1:A:898:PHE:CE2	1:A:903:PRO:HD2	2.24	0.71
1:A:2810:SER:HA	1:A:2861:ILE:HD11	1.72	0.71
1:A:3629:ARG:HD2	1:A:3632:PHE:HD2	1.55	0.71
3:C:297:LEU:HB2	3:C:303:THR:HB	1.72	0.71
3:C:453:ALA:HB1	3:C:533:ILE:HG23	1.71	0.71
3:C:605:LYS:NZ	3:C:611:GLU:O	2.23	0.71
1:F:338:LEU:HD12	3:H:567:LEU:HB3	1.72	0.71
2:G:122:PHE:HE1	2:G:134:MET:HE1	1.53	0.71
3:H:108:LEU:HA	3:H:111:LEU:HD12	1.72	0.71
1:A:1028:PHE:HA	1:A:1031:ARG:HD2	1.72	0.71
1:A:3471:ILE:HD13	1:A:3474:ARG:HD3	1.72	0.71
2:B:461:LYS:HD2	2:B:527:GLU:HB2	1.71	0.71
1:F:1331:ASN:HA	1:F:1334:LYS:HZ3	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2414:GLN:HG3	2:G:148:TRP:HZ2	1.55	0.71
1:F:3507:ASP:HA	1:F:3540:TYR:HA	1.71	0.71
4:J:15:DA:H5'	5:I:42:DA:H2	1.54	0.71
1:F:188:GLU:O	1:F:192:ASN:ND2	2.22	0.71
1:F:3620:PRO:HB3	1:F:3630:ARG:HH12	1.55	0.71
1:A:2139:PRO:HD2	1:A:2142:ILE:HD12	1.71	0.71
1:A:3326:GLN:OE1	1:A:3326:GLN:N	2.23	0.71
2:G:528:LEU:HD21	3:H:372:ALA:HB1	1.72	0.71
3:C:381:ILE:HD13	3:C:417:GLU:HB2	1.70	0.71
1:F:888:ARG:O	1:F:3889:ARG:NH1	2.20	0.71
3:H:154:LEU:HD13	3:H:161:LEU:HD11	1.71	0.71
1:A:1202:ARG:NH2	1:A:1207:TRP:O	2.24	0.71
1:A:3593:ARG:NH2	1:A:3663:THR:OG1	2.23	0.71
1:A:3810:VAL:O	1:A:3930:VAL:N	2.24	0.71
1:A:4034:ALA:HA	1:A:4036:LYS:HZ3	1.55	0.71
1:A:208:MET:HA	1:A:211:ALA:HB3	1.73	0.71
1:A:251:PHE:HZ	1:A:285:CYS:HB3	1.56	0.71
1:F:3746:ARG:NH1	1:F:3746:ARG:HA	2.04	0.71
2:G:82:LEU:HD21	2:G:108:LEU:HB3	1.71	0.71
1:A:1452:VAL:HA	1:A:1517:LEU:HD11	1.73	0.71
2:G:474:ARG:HE	2:G:476:ASP:H	1.39	0.71
1:A:336:ASN:OD1	1:A:337:LYS:N	2.24	0.70
2:B:45:SER:HA	2:B:138:GLY:HA2	1.71	0.70
2:B:194:ARG:HH12	2:B:199:PHE:HA	1.54	0.70
1:F:1695:LEU:HB3	1:F:1699:PHE:HE2	1.56	0.70
1:F:3154:GLN:HA	1:F:3157:LEU:HD13	1.73	0.70
1:A:75:SER:O	1:A:79:ARG:N	2.21	0.70
1:A:1205:ASN:OD1	1:A:1206:LEU:N	2.24	0.70
1:A:2421:VAL:HG23	1:A:2457:PRO:HG3	1.72	0.70
1:A:2574:ASN:O	1:A:2787:HIS:N	2.24	0.70
1:A:3765:GLU:O	1:A:3769:GLN:NE2	2.24	0.70
1:F:1735:ARG:NH1	1:F:1736:PHE:HB2	2.06	0.70
3:H:81:ARG:HH12	3:H:84:MET:HB2	1.54	0.70
1:A:529:ASP:OD1	1:A:530:LEU:N	2.25	0.70
1:A:531:PHE:HD2	1:A:633:ILE:HG21	1.56	0.70
1:A:1069:HIS:HB3	1:A:1074:LYS:HG2	1.72	0.70
1:A:2115:GLU:HB3	1:A:2118:VAL:HA	1.74	0.70
2:B:363:ARG:HB2	2:B:436:PHE:HE2	1.56	0.70
1:F:2140:LEU:HA	1:F:2143:ARG:HE	1.57	0.70
3:H:131:HIS:ND1	3:H:133:GLU:OE2	2.23	0.70
1:A:1831:CYS:O	1:A:1883:ARG:NH2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:193:LEU:HB2	2:B:198:ILE:HD13	1.73	0.70
1:F:410:MET:HA	1:F:413:PHE:HD2	1.56	0.70
1:F:2344:LEU:HA	1:F:2347:LYS:HE2	1.72	0.70
1:F:2919:ASP:OD1	1:F:2922:ARG:NH1	2.25	0.70
1:A:891:ARG:NH2	1:A:958:MET:SD	2.64	0.70
2:B:351:LYS:O	2:B:395:ALA:N	2.24	0.70
2:B:368:VAL:HB	2:B:432:PHE:HB2	1.74	0.70
1:F:1689:LYS:HG2	1:F:1717:LEU:HD21	1.73	0.70
1:F:2931:ARG:HB3	1:F:2939:LEU:HD21	1.72	0.70
3:H:9:ALA:HB3	3:H:130:ARG:HA	1.74	0.70
1:A:1775:GLU:O	1:A:1778:PHE:N	2.24	0.70
1:A:3046:ARG:HB3	1:A:3050:LYS:HZ1	1.55	0.70
1:A:3751:LEU:N	1:A:3803:ILE:O	2.24	0.70
3:C:353:ARG:NH1	3:C:353:ARG:O	2.25	0.70
1:F:3615:ALA:HA	1:F:3619:ASP:HB2	1.73	0.70
1:A:2481:HIS:O	1:A:2485:ARG:N	2.25	0.70
1:A:3099:ALA:HA	1:A:3102:TYR:CD2	2.27	0.70
1:F:3078:LEU:HD12	1:F:3082:TYR:HB2	1.73	0.70
1:F:3740:ILE:HB	1:F:3748:HIS:HB2	1.72	0.70
1:F:3781:CYS:O	1:F:3785:ALA:N	2.25	0.70
1:F:3085:GLU:OE1	1:F:3085:GLU:N	2.21	0.70
3:H:271:ARG:HH11	3:H:486:ARG:HH22	1.38	0.70
1:A:1406:LEU:HD22	1:A:1415:LEU:HD13	1.73	0.70
1:A:1407:LYS:HZ2	1:A:1412:LYS:HG2	1.57	0.70
1:F:3971:MET:HE3	1:F:3973:PRO:HD2	1.73	0.70
1:A:173:LYS:HG3	1:A:176:GLU:HG3	1.74	0.70
1:A:408:TYR:HE1	1:A:449:TYR:CE1	2.09	0.70
1:A:637:LYS:NZ	1:A:640:GLU:OE1	2.23	0.70
1:A:3633:ILE:O	1:A:3637:GLY:N	2.22	0.70
1:A:3762:GLN:O	1:A:3765:GLU:HG2	1.92	0.70
1:F:2537:ASP:HA	1:F:2540:LEU:HD12	1.74	0.70
1:F:3580:ASN:HD21	1:F:3677:PRO:HD3	1.55	0.70
1:A:70:ARG:HH12	1:A:72:SER:HA	1.56	0.69
1:A:2918:PRO:HB2	1:A:2922:ARG:HH22	1.57	0.69
1:A:3319:ASN:O	1:A:3322:ALA:N	2.21	0.69
1:F:3973:PRO:O	1:F:3975:LYS:NZ	2.21	0.69
1:A:289:ASN:OD1	1:A:293:LEU:N	2.25	0.69
1:A:1085:ILE:HG22	1:A:1089:PHE:HB2	1.73	0.69
1:A:1407:LYS:HD3	1:A:1412:LYS:HZ2	1.57	0.69
1:A:2357:GLU:O	1:A:2361:ILE:HD12	1.92	0.69
2:B:278:GLN:OE1	3:C:431:ARG:NH1	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:76:ILE:O	1:F:80:GLU:HG3	1.93	0.69
1:F:332:GLU:HG2	1:F:334:HIS:H	1.57	0.69
1:F:2806:LYS:HB2	1:F:2857:CYS:HB2	1.74	0.69
1:F:2935:GLU:OE1	1:F:2935:GLU:N	2.25	0.69
2:G:269:ILE:HA	2:G:375:VAL:HG11	1.75	0.69
1:A:2220:MET:O	1:A:2259:LYS:NZ	2.23	0.69
3:C:184:ARG:NH2	3:C:518:PRO:O	2.26	0.69
1:F:630:CYS:SG	1:F:631:ARG:N	2.65	0.69
1:F:1327:GLY:O	1:F:1331:ASN:N	2.23	0.69
1:F:1602:ASP:OD1	1:F:1603:GLN:N	2.25	0.69
1:F:1854:ARG:HB3	1:F:1863:PHE:HE1	1.55	0.69
1:F:115:TYR:HE1	1:F:127:ALA:HA	1.57	0.69
1:A:2514:ASN:HB3	1:A:2517:LEU:HG	1.73	0.69
2:B:44:ALA:HB1	2:B:135:MET:HE2	1.74	0.69
2:B:318:ARG:HB3	3:C:276:TRP:HB3	1.74	0.69
1:F:3813:LYS:HD3	1:F:3925:LEU:HD22	1.74	0.69
1:A:776:TRP:O	1:A:780:ILE:N	2.24	0.69
2:B:482:VAL:HG22	3:C:333:TYR:HD1	1.56	0.69
1:F:125:ILE:HA	1:F:128:LEU:HD13	1.74	0.69
1:F:2965:TYR:HB3	1:F:3001:CYS:HB2	1.74	0.69
1:F:3182:ILE:HG13	1:F:3183:ILE:HD12	1.75	0.69
1:A:1946:ASN:HA	1:A:1949:ILE:HD12	1.74	0.69
2:B:350:PHE:CD2	3:C:458:ILE:HA	2.28	0.69
1:F:87:LYS:HE2	1:F:830:VAL:HA	1.74	0.69
2:G:45:SER:HA	2:G:138:GLY:HA2	1.75	0.69
7:E:38:DT:H2"	7:E:39:DA:N7	2.08	0.69
1:A:256:ILE:HD11	3:C:551:GLN:HB3	1.74	0.69
1:A:407:VAL:HA	1:A:410:MET:HG2	1.73	0.69
1:A:2228:ARG:O	1:A:2232:ARG:N	2.22	0.69
1:A:2295:GLN:NE2	1:A:2297:SER:OG	2.21	0.69
1:A:2908:LYS:NZ	1:A:2911:ARG:O	2.25	0.69
1:F:1365:ASN:OD1	1:F:1370:ARG:NH2	2.26	0.69
1:F:2376:ASP:H	1:F:2404:ARG:NH2	1.91	0.69
1:F:3965:ARG:O	1:F:3969:ASN:N	2.25	0.69
2:G:32:TYR:N	2:G:253:LYS:O	2.24	0.69
2:G:40:PHE:HB2	2:G:85:VAL:HG12	1.72	0.69
2:G:412:ALA:O	2:G:435:VAL:N	2.25	0.69
3:H:674:PHE:HB2	3:H:675:TRP:CE3	2.28	0.69
1:A:3471:ILE:HA	1:A:3474:ARG:HG2	1.75	0.69
2:B:482:VAL:HG22	3:C:333:TYR:CD1	2.27	0.69
3:C:352:GLN:HG3	3:C:354:ARG:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3037:GLN:HA	1:F:3040:TYR:HD2	1.56	0.69
3:H:247:TRP:HB3	3:H:263:ALA:HB3	1.72	0.69
1:A:2173:ALA:HA	1:A:2215:LEU:HD21	1.72	0.69
1:A:2940:ARG:HB3	1:A:2957:LEU:HD11	1.73	0.69
3:C:154:LEU:HD13	3:C:215:LEU:HB2	1.75	0.69
3:C:155:LYS:HE3	3:C:156:LYS:HE3	1.73	0.69
1:F:1298:LEU:HD23	1:F:1367:HIS:HD2	1.57	0.69
1:F:3859:TYR:O	1:F:4119:ARG:NH2	2.26	0.69
2:G:328:ILE:HD12	3:H:279:VAL:HG21	1.75	0.69
1:A:750:PRO:HA	1:A:753:GLN:HB2	1.74	0.68
1:A:3543:LYS:HB3	1:A:3548:GLY:HA3	1.75	0.68
1:F:2414:GLN:OE1	1:F:2414:GLN:N	2.20	0.68
1:F:2587:GLN:N	1:F:2777:HIS:O	2.22	0.68
1:A:878:GLU:O	1:A:882:SER:N	2.26	0.68
1:A:1112:ALA:O	1:A:1115:HIS:ND1	2.25	0.68
1:A:2329:TYR:CE1	1:A:2332:GLU:HA	2.29	0.68
2:G:288:LEU:N	3:H:311:ILE:O	2.27	0.68
2:G:358:LYS:HE2	3:H:353:ARG:HH22	1.57	0.68
1:A:2430:GLU:HA	1:A:2433:LYS:HE3	1.75	0.68
1:A:2510:LEU:O	1:A:2518:GLN:NE2	2.26	0.68
3:C:456:ALA:HB3	3:C:533:ILE:HD11	1.74	0.68
1:F:1366:THR:O	1:F:1370:ARG:NH1	2.23	0.68
1:F:2555:LEU:HD21	1:F:2806:LYS:HB3	1.75	0.68
1:F:3722:PHE:HE1	1:F:3740:ILE:HG13	1.57	0.68
1:F:3750:PHE:HA	1:F:3805:TRP:H	1.58	0.68
3:H:165:LEU:H	3:H:226:SER:HA	1.57	0.68
3:H:717:ALA:HB3	3:H:723:GLY:HA2	1.75	0.68
1:F:3846:MET:HB2	1:F:3858:MET:HG3	1.74	0.68
3:H:653:GLN:OE1	3:H:657:ASN:ND2	2.26	0.68
1:A:99:LYS:NZ	1:A:141:SER:O	2.23	0.68
1:A:197:PHE:HE1	1:A:231:LEU:HD22	1.58	0.68
1:A:1215:GLU:O	1:A:1219:PHE:N	2.27	0.68
1:A:1496:GLU:OE1	1:A:1498:GLN:NE2	2.27	0.68
1:A:1756:PRO:HA	1:A:1759:LEU:HB3	1.75	0.68
3:C:57:VAL:HG12	3:C:79:VAL:HG12	1.76	0.68
3:C:197:ILE:HD12	3:C:201:GLN:HB2	1.76	0.68
3:C:618:ASN:OD1	3:C:619:HIS:ND1	2.25	0.68
5:I:41:DT:H2''	5:I:42:DA:C8	2.29	0.68
1:A:628:GLU:O	1:A:631:ARG:HG3	1.94	0.68
1:A:2184:TYR:O	1:A:2187:VAL:N	2.26	0.68
1:A:2920:VAL:HA	1:A:2923:TRP:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3101:TYR:HA	1:A:3104:GLN:HG2	1.76	0.68
1:A:3723:ASP:HB2	1:A:3739:ILE:HB	1.75	0.68
1:F:1497:ARG:NH2	1:F:1539:SER:O	2.27	0.68
1:F:3728:VAL:HG13	1:F:3736:LYS:HE3	1.75	0.68
1:A:785:MET:HA	1:A:788:TYR:HD2	1.58	0.68
1:F:3762:GLN:NE2	1:F:3793:VAL:O	2.27	0.68
1:A:2855:VAL:HG22	1:A:2859:GLN:HE22	1.58	0.68
1:A:183:GLU:HG2	1:A:185:HIS:H	1.59	0.68
1:F:333:MET:HE3	3:H:567:LEU:HD22	1.74	0.68
1:F:935:HIS:O	1:F:938:VAL:HG12	1.94	0.68
1:F:3575:LEU:HB2	1:F:3800:LEU:HD21	1.76	0.68
3:H:67:PRO:HG2	3:H:117:VAL:HG12	1.75	0.68
1:A:4114:PRO:HA	1:A:4117:LEU:HB2	1.76	0.68
1:F:1600:MET:O	1:F:1603:GLN:NE2	2.24	0.68
1:F:2266:ASN:OD1	1:F:2311:ARG:NE	2.27	0.68
1:F:2506:LEU:HB3	1:F:2525:TRP:CH2	2.28	0.68
3:H:549:THR:O	3:H:551:GLN:N	2.27	0.68
7:E:36:DA:H2"	7:E:37:DT:H5"	1.75	0.68
1:A:82:ARG:HD2	1:A:82:ARG:N	2.09	0.67
1:A:358:GLU:O	1:A:361:ILE:N	2.27	0.67
1:A:1576:ASP:OD1	1:A:1577:LEU:N	2.26	0.67
1:A:2796:ALA:O	1:A:2799:GLN:NE2	2.27	0.67
1:A:3450:MET:HE1	1:A:3468:LEU:HD22	1.75	0.67
2:B:262:LYS:HB3	2:B:268:VAL:HG12	1.76	0.67
1:F:2169:LEU:HD23	1:F:2208:ASP:HB2	1.76	0.67
2:G:335:GLU:HA	2:G:338:LYS:HE2	1.74	0.67
1:A:2512:ASP:HB2	1:A:2517:LEU:HD12	1.75	0.67
1:F:924:ARG:H	1:F:927:LYS:HZ1	1.42	0.67
1:F:2490:GLU:OE2	1:F:2495:SER:N	2.25	0.67
1:F:3765:GLU:HA	1:F:3768:PHE:HD2	1.59	0.67
3:H:165:LEU:HG	3:H:167:PHE:H	1.59	0.67
3:H:687:THR:HA	3:H:699:GLU:HG2	1.76	0.67
1:A:515:ARG:NH1	1:A:516:THR:O	2.27	0.67
1:A:1663:THR:O	1:A:1665:HIS:ND1	2.27	0.67
1:A:1915:LEU:HG	1:A:1918:LEU:HD12	1.76	0.67
3:C:485:PRO:HA	3:C:488:GLN:HE22	1.58	0.67
1:F:584:GLU:N	1:F:613:HIS:O	2.27	0.67
1:F:794:PRO:HA	1:F:870:LEU:HD12	1.76	0.67
3:H:11:VAL:HG12	3:H:132:ILE:HA	1.74	0.67
1:A:2371:PHE:HD2	1:A:2374:LEU:HB2	1.59	0.67
1:A:2801:ASP:OD2	1:A:2804:ILE:N	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3849:LYS:HG2	1:A:3851:ASP:H	1.59	0.67
1:F:2304:VAL:HB	1:F:2348:GLN:HG3	1.77	0.67
1:F:2821:ASP:O	1:F:2829:LYS:NZ	2.28	0.67
3:H:13:CYS:HB3	3:H:134:ILE:HA	1.76	0.67
1:A:1729:PHE:HB3	1:A:1733:THR:HG21	1.75	0.67
3:C:316:TYR:N	3:C:319:ASP:O	2.20	0.67
1:F:399:GLN:OE1	1:F:399:GLN:N	2.27	0.67
1:F:1811:ARG:NH1	3:H:627:ASN:OD1	2.25	0.67
1:F:4116:ILE:HA	1:F:4119:ARG:HB2	1.77	0.67
2:G:362:LEU:HD12	2:G:436:PHE:HE2	1.60	0.67
1:A:1829:TRP:O	1:A:1883:ARG:NH1	2.27	0.67
1:A:2324:GLY:HA2	1:A:2327:LEU:HD12	1.76	0.67
1:A:2365:ASN:HB3	1:A:2366:LYS:NZ	2.09	0.67
1:F:893:SER:HA	1:F:906:PHE:HA	1.76	0.67
1:F:1713:VAL:O	1:F:1716:GLN:NE2	2.28	0.67
1:F:3454:LEU:HD21	1:F:3495:PHE:HZ	1.59	0.67
1:A:1445:ARG:HA	1:A:1448:LEU:HD12	1.77	0.67
1:A:2330:VAL:HG23	1:A:2335:ASN:O	1.94	0.67
2:B:121:GLN:NE2	2:B:126:GLN:OE1	2.27	0.67
1:F:886:TRP:CD2	1:F:964:ARG:HD2	2.29	0.67
2:G:273:ILE:CB	2:G:368:VAL:HG22	2.24	0.67
1:F:326:MET:O	1:F:330:ASN:N	2.28	0.67
1:F:1892:LYS:O	1:F:1909:ASN:ND2	2.28	0.67
3:H:59:PHE:HB2	3:H:105:ALA:HB3	1.75	0.67
3:H:686:ILE:HG21	3:H:703:LYS:HB3	1.77	0.67
1:A:113:SER:HB2	3:C:300:ASP:HB2	1.77	0.67
1:A:2534:ASN:O	1:A:2538:ARG:N	2.22	0.67
1:A:2962:ARG:HD3	1:A:3989:ARG:HH22	1.60	0.67
1:F:989:MET:HE2	1:F:993:HIS:HE1	1.59	0.67
1:F:1087:ARG:HA	1:F:1090:ARG:HE	1.59	0.67
1:F:1684:LEU:O	1:F:1689:LYS:NZ	2.28	0.67
1:F:2234:ASN:HA	1:F:2237:ILE:HD12	1.77	0.67
1:F:3950:THR:OG1	1:F:4068:HIS:ND1	2.28	0.67
1:A:3164:TRP:CD1	1:A:3167:ARG:HE	2.11	0.67
1:A:3334:TYR:HE2	1:A:3384:HIS:CE1	2.14	0.67
1:F:1202:ARG:HE	1:F:1207:TRP:CD1	2.13	0.67
1:F:2103:HIS:O	1:F:2107:SER:N	2.28	0.67
1:F:2543:ASN:ND2	1:F:2839:ASP:OD2	2.28	0.67
2:G:327:ILE:HG22	2:G:329:LEU:HD23	1.77	0.67
2:G:470:ARG:HE	3:H:346:CYS:HA	1.60	0.67
1:A:450:SER:O	1:A:453:MET:HG3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:36:DG:N2	5:I:21:DA:OP1	2.24	0.66
1:A:1071:ASN:HD21	1:A:1073:PHE:HB2	1.60	0.66
1:F:780:ILE:HG22	1:F:785:MET:HE3	1.77	0.66
1:F:926:THR:HG23	1:F:2800:ARG:HH21	1.59	0.66
1:F:2448:PRO:HA	1:F:2451:LEU:HD12	1.77	0.66
3:H:32:GLU:HA	3:H:35:LYS:HE3	1.77	0.66
6:D:32:DT:N3	7:E:24:DA:N6	2.32	0.66
1:A:403:GLY:O	1:A:406:ARG:NH2	2.28	0.66
1:A:3772:ASN:HD21	1:A:3788:LEU:HB3	1.61	0.66
1:F:1082:PHE:O	1:F:1086:TYR:N	2.28	0.66
1:F:3585:PHE:HA	1:F:3613:MET:HE1	1.76	0.66
3:H:81:ARG:NH1	3:H:82:HIS:O	2.28	0.66
1:A:66:LEU:O	1:A:70:ARG:HG2	1.95	0.66
1:A:1708:GLU:HB2	1:A:1712:ARG:NH1	2.11	0.66
1:A:2805:ALA:HA	1:A:2808:LEU:HD12	1.77	0.66
1:A:3190:LEU:HG	1:A:3231:ILE:HG23	1.77	0.66
1:A:3884:LYS:NZ	1:A:3969:ASN:O	2.28	0.66
2:B:450:GLU:HA	3:C:416:TYR:CE1	2.31	0.66
1:F:559:SER:O	1:F:562:HIS:ND1	2.29	0.66
3:H:342:VAL:HA	3:H:393:VAL:HA	1.77	0.66
1:A:20:SER:HB2	1:A:69:VAL:HG11	1.76	0.66
1:A:675:ARG:O	1:A:679:LYS:HG2	1.95	0.66
1:A:1108:MET:HA	1:A:1111:LEU:HD12	1.75	0.66
1:A:1899:VAL:HB	1:A:1911:LEU:HB3	1.77	0.66
1:A:3066:ASP:O	1:A:3070:HIS:ND1	2.28	0.66
1:F:3831:ASP:HB3	1:F:3832:PRO:HD3	1.77	0.66
3:H:41:PHE:HA	3:H:44:ARG:NH1	2.10	0.66
3:H:497:ARG:NH1	3:H:503:GLU:O	2.28	0.66
1:A:548:GLU:OE1	1:A:550:PHE:N	2.27	0.66
1:A:2230:VAL:O	1:A:2234:ASN:N	2.22	0.66
1:A:3231:ILE:HG22	1:A:3235:LYS:HZ2	1.60	0.66
1:A:3796:MET:H	1:A:3801:GLY:HA2	1.61	0.66
1:F:1976:LEU:HD23	1:F:2142:ILE:HG13	1.78	0.66
1:F:2532:PRO:HD2	1:F:2538:ARG:HA	1.76	0.66
1:F:2884:LEU:HA	1:F:2886:GLN:HE22	1.61	0.66
2:G:356:LEU:HD11	3:H:353:ARG:HE	1.61	0.66
1:A:4037:ASN:ND2	1:A:4066:LEU:O	2.29	0.66
3:C:144:LYS:HE3	3:C:207:ILE:HD11	1.77	0.66
1:F:339:GLN:HE21	3:H:566:LYS:H	1.43	0.66
1:F:1039:TRP:HA	1:F:1042:LYS:HB2	1.77	0.66
1:A:435:LEU:HD23	1:A:438:LEU:HD12	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4012:ASP:OD1	1:A:4013:TRP:N	2.29	0.66
3:C:154:LEU:HB2	3:C:215:LEU:HD13	1.77	0.66
2:G:450:GLU:HG3	3:H:415:ASN:HB3	1.76	0.66
6:D:19:DA:N6	7:E:39:DA:N1	2.43	0.66
1:A:105:VAL:O	1:A:109:ASN:ND2	2.28	0.66
1:A:270:ALA:HA	1:A:273:ARG:HE	1.61	0.66
1:A:1366:THR:HG22	1:A:1367:HIS:HD2	1.61	0.66
1:A:3139:GLN:HA	1:A:3142:ILE:HD12	1.77	0.66
3:C:513:TRP:O	3:C:517:ASN:N	2.28	0.66
1:F:99:LYS:O	1:F:99:LYS:HD2	1.96	0.66
1:F:2387:PRO:HA	1:F:2394:LYS:HZ1	1.61	0.66
1:F:3681:LYS:HG2	1:F:3724:GLU:HA	1.78	0.66
1:A:2329:TYR:HE1	1:A:2332:GLU:HA	1.60	0.66
2:B:507:THR:HG23	2:B:508:LEU:HD12	1.77	0.66
1:F:970:LEU:HB3	1:F:1025:LEU:HD11	1.78	0.66
3:H:182:PRO:HD2	3:H:521:GLU:HG3	1.77	0.66
1:A:367:GLY:HA3	1:A:416:SER:HB3	1.77	0.65
1:A:1685:ASP:H	1:A:1688:LEU:HD12	1.61	0.65
1:A:2505:VAL:HA	1:A:2508:GLN:HB2	1.76	0.65
1:A:2974:GLU:O	1:A:2978:LYS:N	2.30	0.65
1:F:4027:TRP:NE1	1:F:4030:GLU:OE1	2.28	0.65
1:A:91:ILE:HD11	1:A:831:LEU:HD23	1.77	0.65
1:A:822:ALA:HA	1:A:828:LYS:HD3	1.78	0.65
1:A:1345:THR:HA	1:A:1348:LEU:HD12	1.78	0.65
1:A:3231:ILE:HG22	1:A:3235:LYS:NZ	2.11	0.65
1:A:3385:LEU:HB3	1:A:3416:LEU:HD22	1.78	0.65
1:F:1486:LEU:HA	1:F:1490:GLY:HA3	1.78	0.65
1:F:1892:LYS:NZ	1:F:1906:THR:O	2.28	0.65
1:F:3572:ILE:HG23	1:F:3800:LEU:HD23	1.79	0.65
1:F:3918:LEU:O	1:F:3946:PHE:N	2.27	0.65
2:G:75:ILE:HD13	2:G:116:ILE:HD11	1.77	0.65
3:H:312:GLN:O	3:H:323:PHE:N	2.22	0.65
3:H:329:GLU:HA	3:H:332:LYS:HE2	1.78	0.65
3:H:512:ILE:O	3:H:516:LEU:N	2.26	0.65
1:A:889:GLU:HB2	1:A:891:ARG:HH11	1.61	0.65
1:A:1045:THR:OG1	1:A:1047:GLN:NE2	2.29	0.65
1:A:1048:GLN:HA	1:A:1051:LYS:HD3	1.78	0.65
1:A:1147:LYS:NZ	1:A:1148:ALA:O	2.29	0.65
2:B:425:ILE:HG22	2:B:427:VAL:HG13	1.79	0.65
2:B:450:GLU:OE2	3:C:413:LYS:NZ	2.27	0.65
1:F:1060:PHE:HA	1:F:1063:LEU:HD12	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:85:VAL:HG22	2:G:106:GLN:HE22	1.60	0.65
3:H:127:PHE:O	3:H:130:ARG:NH1	2.29	0.65
1:A:1799:GLU:HA	1:A:1802:TYR:HB3	1.78	0.65
2:B:297:LYS:HB3	3:C:298:ASN:HD21	1.61	0.65
1:F:313:LEU:HD21	1:F:357:LYS:NZ	2.12	0.65
1:F:1020:PRO:O	1:F:1026:ARG:NH2	2.29	0.65
1:F:3796:MET:HE1	1:F:3802:LEU:HB2	1.77	0.65
1:F:3894:PRO:HA	1:F:3897:PHE:HB3	1.78	0.65
2:G:51:SER:HA	2:G:58:THR:HA	1.78	0.65
1:A:1131:ILE:HG23	1:A:1190:LEU:HD21	1.78	0.65
1:A:2379:MET:HB3	1:A:2383:PHE:CE2	2.31	0.65
1:A:3903:HIS:ND1	1:A:3934:THR:O	2.30	0.65
1:F:407:VAL:HA	1:F:410:MET:HE1	1.77	0.65
1:F:708:VAL:HG12	1:F:712:LYS:NZ	2.11	0.65
1:F:1485:SER:O	1:F:1490:GLY:N	2.29	0.65
1:F:3051:LEU:HA	1:F:3054:GLN:HE22	1.62	0.65
1:F:3360:LEU:HD11	1:F:3377:LEU:HD11	1.77	0.65
1:F:3828:TYR:HE2	1:F:3879:PRO:HD3	1.61	0.65
2:G:204:HIS:CD2	2:G:213:ILE:HB	2.30	0.65
6:D:15:DA:H2	7:E:42:DA:H61	1.45	0.65
1:A:70:ARG:NH1	1:A:72:SER:HA	2.10	0.65
1:A:346:TYR:CZ	1:A:350:ARG:HD2	2.32	0.65
1:A:1369:MET:HE1	1:A:1414:ILE:HB	1.79	0.65
1:A:3602:ASN:O	1:A:3604:LYS:NZ	2.26	0.65
1:F:1804:MET:HA	1:F:1807:LYS:HG3	1.79	0.65
1:A:446:PHE:N	1:A:447:PRO:HD2	2.01	0.65
1:A:586:GLN:HE21	1:A:602:MET:HA	1.62	0.65
1:A:1735:ARG:NH2	1:A:1738:ASN:OD1	2.28	0.65
1:A:3765:GLU:HA	1:A:3768:PHE:CD2	2.32	0.65
1:F:313:LEU:HD21	1:F:357:LYS:HZ2	1.61	0.65
1:F:372:PRO:HA	1:F:375:VAL:HB	1.77	0.65
1:A:2291:GLN:HE22	1:A:2295:GLN:HA	1.60	0.65
1:A:2944:THR:HA	1:A:2948:GLY:HA3	1.77	0.65
1:F:104:SER:HA	1:F:107:ILE:HG12	1.77	0.65
1:F:1735:ARG:HA	1:F:1738:ASN:HD21	1.62	0.65
2:G:49:PHE:CE2	2:G:128:GLN:HB2	2.31	0.65
2:G:114:LYS:HA	2:G:117:LEU:HD12	1.77	0.65
2:G:122:PHE:CE1	2:G:134:MET:HE1	2.31	0.65
2:G:286:ILE:O	3:H:313:GLY:N	2.29	0.65
3:H:15:ASP:HB2	3:H:20:MET:SD	2.36	0.65
3:H:57:VAL:HA	3:H:79:VAL:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:16:DA:N6	7:E:42:DA:N1	2.45	0.65
1:A:449:TYR:HB2	1:A:453:MET:SD	2.37	0.65
1:A:3144:PHE:HA	1:A:3150:ASN:HD22	1.61	0.65
1:A:3950:THR:O	1:A:4068:HIS:ND1	2.30	0.65
2:B:288:LEU:N	3:C:311:ILE:O	2.29	0.65
3:C:80:HIS:O	3:C:81:ARG:NH1	2.29	0.65
1:F:832:LYS:O	1:F:833:HIS:ND1	2.30	0.65
1:F:1413:ASP:OD1	1:F:1414:ILE:HD12	1.96	0.65
1:F:1854:ARG:HH12	3:H:725:VAL:HG11	1.62	0.65
1:A:1427:SER:HA	1:A:1430:GLU:HB2	1.79	0.65
1:A:2480:ILE:HA	1:A:2483:ASN:HD21	1.61	0.65
1:A:3831:ASP:HA	1:A:3835:PRO:HD2	1.76	0.65
2:B:483:LEU:HG	2:B:487:PHE:HE2	1.60	0.65
3:C:9:ALA:N	3:C:129:LYS:O	2.28	0.65
1:F:850:GLU:HA	1:F:853:ILE:HD12	1.78	0.65
1:F:1169:VAL:HG21	1:F:1198:LEU:HD21	1.79	0.65
3:H:148:ASP:OD1	3:H:149:ILE:N	2.30	0.65
1:A:974:CYS:HA	1:A:1028:PHE:CE2	2.27	0.64
1:A:2351:GLN:O	1:A:2356:MET:HE2	1.97	0.64
1:A:3654:MET:HG2	1:A:3659:PHE:HB2	1.79	0.64
1:F:313:LEU:HD11	1:F:357:LYS:HD3	1.79	0.64
1:F:958:MET:HG3	1:F:961:LEU:HD12	1.78	0.64
1:A:1104:LEU:HD11	1:A:1134:LEU:HD21	1.79	0.64
1:A:3692:VAL:HA	1:A:3696:ARG:HH22	1.62	0.64
2:B:514:MET:HA	2:B:517:ARG:HB3	1.79	0.64
1:F:850:GLU:OE1	1:F:850:GLU:N	2.28	0.64
1:F:1257:LEU:HD22	1:F:1337:VAL:HG21	1.78	0.64
1:F:3499:ILE:HG23	1:F:3529:ILE:HG12	1.79	0.64
2:G:403:ARG:HE	5:I:31:DA:H4'	1.62	0.64
2:G:425:ILE:HG22	2:G:427:VAL:HG13	1.78	0.64
1:A:22:ALA:O	1:A:33:GLN:NE2	2.31	0.64
1:A:1504:ASP:O	1:A:1508:LYS:N	2.28	0.64
1:A:1506:SER:HA	1:A:1509:GLN:HE21	1.62	0.64
1:A:2390:HIS:N	1:A:2394:LYS:HZ1	1.95	0.64
2:B:372:GLU:OE2	2:B:378:SER:N	2.30	0.64
1:F:1799:GLU:OE2	1:F:1806:ARG:NH2	2.24	0.64
1:F:2386:LEU:O	1:F:2394:LYS:NZ	2.30	0.64
1:F:2586:PHE:HB2	1:F:2776:ARG:HE	1.60	0.64
1:F:3001:CYS:HA	1:F:3004:HIS:HB2	1.78	0.64
1:A:741:ILE:HG22	1:A:745:VAL:HG12	1.79	0.64
1:A:1696:LEU:HA	1:A:1699:PHE:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1776:GLU:HG3	1:A:1777:LEU:HD12	1.78	0.64
1:A:3496:ILE:HG21	1:A:3707:GLY:H	1.61	0.64
1:A:3931:ALA:N	1:A:3936:GLY:O	2.20	0.64
2:B:484:GLN:HA	2:B:487:PHE:HD2	1.61	0.64
1:F:387:GLU:HG3	1:F:388:LEU:HD12	1.79	0.64
1:F:1298:LEU:HG	1:F:1367:HIS:HB2	1.79	0.64
1:F:3462:ARG:O	1:F:3498:TRP:NE1	2.31	0.64
1:A:930:ALA:HA	1:A:933:LEU:HD12	1.79	0.64
2:B:270:SER:H	2:B:375:VAL:HB	1.62	0.64
1:F:1172:LEU:O	1:F:1176:CYS:N	2.31	0.64
1:F:1494:GLY:H	1:F:1538:LEU:HD11	1.62	0.64
1:A:392:CYS:SG	1:A:393:LYS:N	2.70	0.64
1:A:1007:VAL:HA	1:A:1010:LEU:HD12	1.79	0.64
1:A:1893:GLU:HG2	1:A:1894:SER:H	1.62	0.64
1:A:3033:GLU:HG2	1:A:3034:PRO:HD3	1.79	0.64
1:A:3251:ASN:HD21	1:A:3254:LEU:HB3	1.62	0.64
1:A:3283:LEU:HD21	1:A:3287:ARG:HH21	1.62	0.64
1:F:180:LEU:HG	1:F:182:GLY:H	1.63	0.64
1:F:749:VAL:HA	1:F:752:LEU:HD12	1.80	0.64
1:F:771:ASN:OD1	1:F:854:ARG:NH2	2.31	0.64
1:F:2313:LYS:HA	1:F:2316:TYR:CZ	2.33	0.64
1:F:2464:HIS:HD2	1:F:2466:SER:HB3	1.61	0.64
3:H:16:VAL:HB	3:H:58:LEU:HD11	1.79	0.64
3:H:266:SER:OG	3:H:363:LYS:NZ	2.23	0.64
6:D:20:DT:H2"	6:D:21:DA:C5	2.33	0.64
1:A:305:ASN:HD21	1:A:307:GLU:HG2	1.61	0.64
1:A:2335:ASN:HD21	1:A:2337:LEU:HD12	1.63	0.64
1:A:3499:ILE:HG21	1:A:3529:ILE:HG23	1.79	0.64
1:A:78:PHE:O	1:A:82:ARG:NH1	2.30	0.64
1:A:2183:HIS:HB2	1:A:2185:MET:HG3	1.80	0.64
3:C:144:LYS:NZ	3:C:203:GLU:OE1	2.27	0.64
3:C:279:VAL:HG12	3:C:286:LYS:HD3	1.80	0.64
1:F:440:VAL:HA	1:F:443:ILE:HD12	1.79	0.64
1:F:1937:ARG:O	1:F:1941:HIS:ND1	2.30	0.64
1:F:2466:SER:OG	1:F:2469:CYS:SG	2.43	0.64
1:F:3126:LEU:O	1:F:3129:LEU:N	2.31	0.64
2:G:422:ASP:OD1	2:G:423:GLN:N	2.30	0.64
1:A:3071:GLY:O	1:A:3074:GLN:NE2	2.31	0.64
1:F:892:LEU:HG	1:F:907:LEU:HB2	1.78	0.64
1:A:408:TYR:HA	1:A:449:TYR:CE2	2.33	0.64
1:A:2791:ILE:HG23	1:A:2794:LEU:HD22	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:272:VAL:HG12	3:C:274:LYS:H	1.62	0.64
3:C:652:GLU:HA	3:C:655:PHE:HB3	1.79	0.64
1:F:1574:ASN:ND2	1:F:1578:ALA:H	1.96	0.64
1:F:1829:TRP:HA	1:F:1883:ARG:HH12	1.63	0.64
3:H:12:LEU:HD12	3:H:56:LEU:HB2	1.78	0.64
1:A:449:TYR:CB	1:A:453:MET:SD	2.86	0.63
1:A:1684:LEU:HD11	1:A:1689:LYS:HB3	1.80	0.63
1:A:3311:ASN:ND2	1:A:3315:TYR:OH	2.28	0.63
1:A:3380:ARG:HA	1:A:3383:GLN:HG3	1.80	0.63
2:B:297:LYS:HZ3	3:C:294:VAL:HG23	1.62	0.63
1:F:1500:LEU:HD12	1:F:1501:PRO:HD2	1.80	0.63
3:H:352:GLN:H	3:H:355:PHE:HD1	1.44	0.63
1:A:1623:LEU:HB3	1:A:1667:SER:HB2	1.78	0.63
1:A:3352:GLU:O	1:A:3357:ARG:NH2	2.31	0.63
3:C:688:LYS:NZ	3:C:699:GLU:OE1	2.31	0.63
1:F:891:ARG:HH21	1:F:960:GLN:HE22	1.44	0.63
1:F:1457:GLN:HB3	1:F:1460:ARG:HH21	1.62	0.63
1:A:1476:HIS:HB2	1:A:1524:LEU:HD11	1.80	0.63
1:A:2801:ASP:HB3	1:A:2804:ILE:HG12	1.79	0.63
1:A:3616:ALA:O	1:A:3633:ILE:HG22	1.98	0.63
1:A:3812:LEU:HG	1:A:3816:LEU:HG	1.80	0.63
1:F:1041:ILE:HD11	1:F:1046:PRO:HA	1.80	0.63
1:F:1468:LEU:HG	1:F:1470:SER:H	1.63	0.63
1:F:2133:LEU:HD23	1:F:2146:LEU:HD11	1.81	0.63
1:F:2373:PRO:HA	1:F:2404:ARG:CZ	2.29	0.63
1:F:3467:ARG:HH12	1:F:3471:ILE:HB	1.64	0.63
1:A:28:ALA:HA	1:A:77:GLU:OE2	1.98	0.63
1:A:1136:ARG:HG3	1:A:1140:LYS:HZ3	1.63	0.63
1:A:1413:ASP:OD1	1:A:1414:ILE:N	2.27	0.63
1:A:1766:LEU:O	1:A:1822:ARG:NH1	2.32	0.63
2:B:126:GLN:O	2:B:130:ARG:HG3	1.99	0.63
1:F:1489:LYS:HD3	1:F:1492:ALA:HB3	1.80	0.63
1:F:3034:PRO:HB2	1:F:3037:GLN:HB2	1.80	0.63
1:F:3413:TYR:HD2	1:F:3453:ALA:HB2	1.63	0.63
1:A:81:CYS:HB2	1:A:82:ARG:NH1	2.13	0.63
1:A:1202:ARG:NH2	1:A:1210:ASP:HB2	2.13	0.63
1:A:3089:LEU:O	1:A:3093:GLN:N	2.28	0.63
1:F:90:CYS:SG	1:F:133:LYS:NZ	2.64	0.63
1:F:2866:ALA:HA	1:F:2869:LEU:HB2	1.80	0.63
1:F:3738:ILE:N	1:F:3750:PHE:O	2.21	0.63
1:F:3742:GLY:N	1:F:3746:ARG:O	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:679:VAL:HG11	3:H:705:LEU:HD21	1.80	0.63
1:A:214:GLU:O	1:A:216:LYS:HG2	1.98	0.63
1:A:1139:GLU:HB2	1:A:1140:LYS:HZ2	1.63	0.63
1:A:1483:LEU:HD11	1:A:1518:ALA:HB1	1.81	0.63
1:A:2155:GLU:HA	1:A:2158:ARG:HG2	1.79	0.63
3:C:296:CYS:HA	3:C:304:GLU:HA	1.80	0.63
1:F:2102:LYS:O	1:F:2106:ARG:HD3	1.98	0.63
1:F:2575:PRO:HA	1:F:2786:LYS:HA	1.79	0.63
1:F:2578:GLU:O	1:F:2784:GLN:NE2	2.28	0.63
2:G:400:TYR:N	2:G:409:TYR:O	2.30	0.63
1:A:452:LYS:HA	1:A:455:LEU:HD12	1.81	0.63
1:A:1519:PHE:CD1	1:A:1570:GLU:HG3	2.34	0.63
1:A:2573:PRO:HA	1:A:2786:LYS:HB3	1.81	0.63
1:A:2791:ILE:HA	1:A:2794:LEU:HD13	1.81	0.63
1:A:2939:LEU:O	1:A:2942:ILE:CG2	2.47	0.63
3:C:234:LEU:HG	3:C:237:PHE:HB2	1.80	0.63
1:F:1023:SER:HA	1:F:1026:ARG:HB2	1.80	0.63
1:F:3821:SER:HB3	1:F:3824:GLU:HB3	1.79	0.63
3:H:294:VAL:HA	3:H:307:LYS:HE3	1.80	0.63
1:A:61:ARG:NH1	1:A:62:ASP:OD1	2.31	0.63
1:A:1986:ARG:HA	1:A:2184:TYR:HD2	1.64	0.63
1:A:2295:GLN:HE21	1:A:2298:GLU:CD	2.06	0.63
1:A:2453:GLU:OE1	1:A:2453:GLU:N	2.31	0.63
2:B:51:SER:HA	2:B:58:THR:HA	1.79	0.63
2:B:87:PHE:HB2	2:B:103:TYR:HB3	1.80	0.63
2:B:340:PHE:HB2	3:C:486:ARG:HH12	1.64	0.63
2:B:412:ALA:O	2:B:435:VAL:N	2.32	0.63
1:F:13:LEU:O	1:F:16:GLN:N	2.32	0.63
1:F:1298:LEU:HA	1:F:1367:HIS:CD2	2.34	0.63
1:F:1423:ILE:HG13	1:F:1425:ALA:H	1.63	0.63
1:F:1444:ASP:OD1	1:F:1445:ARG:N	2.32	0.63
1:F:1786:ALA:H	1:F:1830:HIS:HE1	1.47	0.63
1:F:2193:ILE:HG22	1:F:2194:LEU:HD22	1.81	0.63
1:F:3593:ARG:NH1	1:F:3657:SER:OG	2.30	0.63
2:G:484:GLN:O	2:G:488:ARG:HG2	1.98	0.63
1:A:2351:GLN:HB3	1:A:2356:MET:HB2	1.81	0.63
1:A:2910:VAL:HA	1:A:2915:ARG:HD3	1.81	0.63
2:B:36:ASP:OD1	2:B:37:SER:N	2.32	0.63
1:F:2548:PRO:HG3	1:F:2846:THR:HG22	1.81	0.63
2:G:276:LEU:HD11	2:G:367:PHE:HB2	1.79	0.63
3:H:488:GLN:NE2	3:H:509:GLN:OE1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:342:VAL:HG21	3:C:391:ALA:HB1	1.79	0.62
1:F:1115:HIS:CE1	1:F:1180:GLN:HB3	2.34	0.62
1:F:1459:HIS:HB2	1:F:1520:ALA:HB1	1.80	0.62
1:F:1703:THR:HG21	1:F:1707:LEU:HD21	1.81	0.62
1:F:2554:PHE:HD1	1:F:2557:LEU:HB2	1.64	0.62
1:F:3259:LEU:O	1:F:3276:TRP:NE1	2.26	0.62
1:A:1956:PHE:CE1	1:A:1958:GLU:HB3	2.34	0.62
1:A:3421:ASP:OD1	1:A:3425:ARG:NE	2.32	0.62
2:B:474:ARG:HE	2:B:476:ASP:H	1.47	0.62
1:F:3176:MET:HE1	1:F:3245:SER:HB2	1.81	0.62
1:F:3278:GLN:O	1:F:3282:ARG:HG2	1.99	0.62
1:F:3758:LEU:HB3	1:F:3762:GLN:HE22	1.64	0.62
2:G:289:TYR:HD2	2:G:292:THR:H	1.45	0.62
1:A:2573:PRO:O	1:A:2786:LYS:NZ	2.32	0.62
3:C:413:LYS:N	3:C:417:GLU:OE1	2.32	0.62
1:F:2125:TRP:O	1:F:2129:LEU:HG	1.98	0.62
2:G:362:LEU:HD12	2:G:436:PHE:CE2	2.34	0.62
3:H:377:LEU:HA	3:H:380:LEU:HD12	1.82	0.62
1:A:449:TYR:HB3	1:A:453:MET:CG	2.29	0.62
1:A:542:ASP:OD1	1:A:543:SER:N	2.30	0.62
1:A:2331:MET:N	1:A:2335:ASN:O	2.31	0.62
1:A:3270:ASP:OD1	1:A:3271:ASP:N	2.32	0.62
1:A:3413:TYR:HA	1:A:3449:LYS:NZ	2.14	0.62
2:B:358:LYS:HB3	3:C:409:PHE:CE2	2.34	0.62
1:F:233:ASN:CG	1:F:278:HIS:HE2	2.08	0.62
3:H:493:CYS:HB3	3:H:505:LEU:HD12	1.81	0.62
1:A:230:LEU:HD23	1:A:234:PHE:HZ	1.64	0.62
1:A:1329:ARG:HE	1:A:1332:TYR:HB3	1.63	0.62
1:A:2865:HIS:HB2	1:A:2868:LEU:HD13	1.81	0.62
3:C:282:LYS:HG3	3:C:283:THR:HG23	1.81	0.62
3:C:497:ARG:NH1	3:C:503:GLU:O	2.32	0.62
1:F:560:LEU:O	1:F:564:LEU:HG	2.00	0.62
1:F:2228:ARG:HA	1:F:2232:ARG:HH12	1.64	0.62
1:F:3590:ASN:HA	1:F:4031:ILE:HD12	1.81	0.62
3:H:28:GLU:OE1	3:H:36:LYS:NZ	2.22	0.62
1:A:132:ILE:HA	1:A:135:LEU:HD12	1.82	0.62
1:A:2310:VAL:HG22	1:A:2311:ARG:H	1.64	0.62
1:A:2384:PHE:HD2	1:A:2385:LEU:HD22	1.62	0.62
1:A:2443:MET:HE2	1:A:2479:TRP:CE3	2.33	0.62
1:A:3374:ILE:HA	1:A:3377:LEU:HD12	1.81	0.62
1:F:399:GLN:HB3	1:F:403:GLY:H	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2122:LEU:HB3	1:F:2127:LYS:N	2.14	0.62
1:F:3150:ASN:HA	1:F:3156:PRO:HG2	1.81	0.62
1:F:3177:ASN:OD1	1:F:3178:ILE:N	2.32	0.62
1:F:3511:ALA:HB1	1:F:3514:VAL:HB	1.80	0.62
1:F:3607:GLU:HA	1:F:3610:TYR:CZ	2.35	0.62
2:G:296:VAL:HG11	3:H:305:VAL:HG11	1.80	0.62
3:H:363:LYS:HE2	3:H:365:PHE:HZ	1.65	0.62
1:A:2539:LEU:HD23	1:A:2543:ASN:HD21	1.64	0.62
1:A:3046:ARG:HA	1:A:3049:LEU:HD12	1.82	0.62
1:A:3302:LYS:HD3	1:A:3333:THR:HG21	1.80	0.62
2:B:352:PRO:HA	2:B:394:VAL:HA	1.82	0.62
3:C:256:ASN:OD1	3:C:257:LEU:N	2.32	0.62
1:F:736:LEU:HB3	1:F:740:ILE:HG21	1.80	0.62
1:F:2439:ILE:HA	1:F:2442:MET:HG3	1.82	0.62
3:H:510:GLN:HA	3:H:513:TRP:CE3	2.34	0.62
4:J:15:DA:H5'	5:I:42:DA:C2	2.35	0.62
1:A:1820:VAL:HA	1:A:1824:LEU:HB2	1.82	0.62
1:A:3461:ALA:HA	1:A:3464:LYS:HD3	1.80	0.62
3:C:297:LEU:N	3:C:303:THR:O	2.23	0.62
1:F:289:ASN:O	1:F:293:LEU:N	2.22	0.62
1:F:1584:GLN:O	1:F:1587:VAL:HG12	2.00	0.62
1:F:2098:THR:O	1:F:2102:LYS:NZ	2.33	0.62
1:F:2345:VAL:HA	1:F:2348:GLN:HG2	1.80	0.62
3:H:454:VAL:O	3:H:458:ILE:N	2.33	0.62
1:A:39:GLY:HA3	1:A:826:PHE:CE1	2.35	0.62
1:A:699:GLU:HG2	1:A:700:LYS:HD3	1.81	0.62
1:A:3665:MET:O	1:A:3669:LYS:NZ	2.31	0.62
2:B:144:SER:HA	2:B:189:LYS:NZ	2.14	0.62
1:F:793:LEU:O	1:F:795:CYS:N	2.30	0.62
1:F:2183:HIS:H	1:F:2186:VAL:HB	1.65	0.62
3:H:9:ALA:N	3:H:129:LYS:O	2.24	0.62
1:A:479:ILE:HA	1:A:482:VAL:HG22	1.82	0.62
1:A:857:GLN:H	1:A:857:GLN:CD	2.07	0.62
1:A:1274:ARG:HA	1:A:1274:ARG:CZ	2.30	0.62
1:A:1563:PHE:HD2	1:A:1566:THR:HG21	1.64	0.62
1:A:1839:PHE:CE1	1:A:1843:ILE:HG21	2.35	0.62
1:A:2447:LYS:HZ3	1:A:2449:VAL:H	1.48	0.62
1:A:3314:SER:HG	1:A:3317:SER:HG	1.47	0.62
2:B:275:ASN:HA	2:B:366:LEU:HD12	1.81	0.62
1:F:554:ASN:C	1:F:554:ASN:HD22	2.06	0.62
1:F:1533:LEU:HD13	1:F:1585:SER:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2420:PHE:HZ	1:F:2435:CYS:HB3	1.64	0.62
1:F:3460:GLU:O	1:F:3464:LYS:HG2	2.00	0.62
1:F:3730:ALA:HA	1:F:3734:ARG:NE	2.15	0.62
2:G:132:GLN:OE1	2:G:137:HIS:HB2	2.00	0.62
2:G:273:ILE:HG23	2:G:368:VAL:CG2	2.30	0.62
2:G:348:MET:O	3:H:461:MET:HG2	2.00	0.62
2:G:388:LYS:HA	2:G:391:GLU:HG2	1.82	0.62
1:A:1887:ASP:OD1	1:A:1888:ASP:N	2.33	0.61
1:A:2177:ASN:ND2	1:A:2181:GLY:O	2.27	0.61
1:A:2586:PHE:CZ	1:A:2780:LEU:HB3	2.35	0.61
1:A:2881:LEU:HA	1:A:2886:GLN:HE21	1.65	0.61
1:A:3275:SER:HA	1:A:3278:GLN:HE21	1.65	0.61
1:A:3527:GLN:HE21	1:A:3697:ASN:HB2	1.64	0.61
2:B:34:GLY:HA2	2:B:160:LYS:HG3	1.80	0.61
2:B:407:PRO:HG3	3:C:486:ARG:HG3	1.81	0.61
3:C:455:ASP:HA	3:C:458:ILE:HD12	1.81	0.61
1:F:3737:ARG:HA	1:F:3751:LEU:HA	1.79	0.61
1:A:848:LEU:HG	1:A:851:ILE:HD12	1.82	0.61
1:A:1779:GLN:HA	1:A:1782:PHE:CD2	2.35	0.61
1:A:2154:GLU:HA	1:A:2157:PHE:CE1	2.35	0.61
1:F:1205:ASN:HA	1:F:1275:THR:HA	1.82	0.61
1:F:1454:ALA:HA	1:F:1457:GLN:HE21	1.65	0.61
1:F:1468:LEU:HD12	1:F:1469:PRO:HD2	1.80	0.61
1:A:1112:ALA:HA	1:A:1180:GLN:HG2	1.82	0.61
1:A:1391:VAL:O	1:A:1395:LEU:N	2.32	0.61
1:A:3856:MET:HB3	1:A:4072:PRO:HB2	1.82	0.61
2:B:459:VAL:HG12	2:B:463:LYS:HE2	1.82	0.61
1:F:23:ASP:HA	1:F:34:LEU:HD11	1.82	0.61
1:F:977:ASP:HB3	1:F:980:THR:HG23	1.81	0.61
1:F:2196:TRP:HB2	1:F:2199:LEU:HB2	1.82	0.61
1:F:2481:HIS:CE1	1:F:2485:ARG:HE	2.17	0.61
1:F:3260:LYS:O	1:F:3264:LYS:NZ	2.34	0.61
1:F:3680:LEU:HD22	1:F:3724:GLU:HG3	1.82	0.61
2:G:287:LYS:HA	3:H:312:GLN:HA	1.82	0.61
3:H:37:VAL:O	3:H:41:PHE:HD1	1.82	0.61
3:H:232:ARG:HA	3:H:515:MET:SD	2.40	0.61
1:A:1202:ARG:NE	1:A:1210:ASP:OD2	2.33	0.61
1:A:1854:ARG:HH12	1:A:1863:PHE:HB2	1.64	0.61
1:A:3952:PHE:HD2	1:A:3953:LEU:HD22	1.66	0.61
2:B:399:ARG:HA	2:B:410:PHE:HA	1.81	0.61
1:F:1809:ASP:O	1:F:1816:ARG:NH2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2394:LYS:HB2	1:F:2431:ARG:HH12	1.65	0.61
1:F:3054:GLN:OE1	1:F:3054:GLN:N	2.32	0.61
1:A:2206:PRO:O	1:A:2210:VAL:N	2.25	0.61
1:A:2471:GLU:OE2	1:A:2472:GLN:NE2	2.33	0.61
1:A:2528:GLU:HA	1:A:2531:LEU:O	2.01	0.61
2:B:120:ASP:OD1	2:B:123:LYS:NZ	2.31	0.61
2:B:123:LYS:O	2:B:126:GLN:NE2	2.33	0.61
1:F:1511:ALA:HA	1:F:1514:LEU:HD12	1.82	0.61
1:F:2290:PRO:HG2	1:F:2293:GLY:H	1.64	0.61
1:F:2368:THR:HG21	1:F:2400:VAL:HG23	1.82	0.61
2:G:358:LYS:HE2	3:H:353:ARG:NH2	2.15	0.61
1:A:32:HIS:O	1:A:36:ARG:NH1	2.34	0.61
1:A:853:ILE:O	1:A:857:GLN:NE2	2.31	0.61
1:A:1622:ILE:O	1:A:1626:TRP:N	2.34	0.61
1:A:2880:CYS:O	1:A:2884:LEU:N	2.34	0.61
1:A:3326:GLN:HA	1:A:3329:LEU:HD12	1.83	0.61
1:A:3841:ASP:OD1	1:A:3842:TRP:N	2.33	0.61
1:A:3918:LEU:HD22	1:A:3920:ILE:HG13	1.82	0.61
3:C:645:GLU:O	3:C:649:PHE:N	2.33	0.61
1:F:925:GLN:HB2	1:F:2800:ARG:HH22	1.66	0.61
1:F:1886:LYS:O	1:F:1890:HIS:ND1	2.33	0.61
1:F:1927:MET:HG2	1:F:1929:GLY:H	1.65	0.61
1:F:3244:ASP:HA	1:F:3247:ARG:NH1	2.16	0.61
1:F:3833:ARG:HG3	1:F:3834:ALA:H	1.66	0.61
1:F:3965:ARG:HH21	1:F:3969:ASN:HA	1.65	0.61
3:H:81:ARG:HH12	3:H:84:MET:HE2	1.65	0.61
1:A:447:PRO:HB3	1:A:526:ASP:HB3	1.83	0.61
1:A:1032:CYS:O	1:A:1036:PHE:N	2.27	0.61
1:A:2835:LYS:O	1:A:2838:GLN:NE2	2.33	0.61
1:A:3789:ARG:HH22	1:A:3791:TYR:H	1.49	0.61
3:C:485:PRO:HA	3:C:488:GLN:NE2	2.14	0.61
1:F:1610:ASN:OD1	1:F:1611:GLN:N	2.30	0.61
1:F:3005:LEU:HD21	1:F:3252:PHE:CZ	2.36	0.61
1:F:3532:PRO:HA	1:F:3535:ILE:HD12	1.82	0.61
2:G:282:LYS:NZ	2:G:483:LEU:HD13	2.16	0.61
1:A:1602:ASP:OD1	1:A:1603:GLN:N	2.32	0.61
1:A:3034:PRO:HG2	1:A:3037:GLN:HB2	1.81	0.61
1:A:3365:SER:HB3	1:A:3373:VAL:HA	1.82	0.61
1:A:3924:HIS:CD2	1:A:3926:ASN:HB2	2.36	0.61
1:F:2796:ALA:O	1:F:2799:GLN:NE2	2.34	0.61
1:F:3862:ALA:HB3	1:F:4119:ARG:HH21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:351:LYS:O	2:G:395:ALA:N	2.32	0.61
3:H:137:ASP:HB3	3:H:166:PRO:HG2	1.82	0.61
1:A:1209:LYS:HE3	1:A:1276:VAL:HG13	1.83	0.61
1:A:1741:ASP:OD1	1:A:1745:LYS:NZ	2.33	0.61
1:A:2457:PRO:O	1:A:2460:GLU:HG2	2.00	0.61
2:B:89:GLY:HA2	2:B:101:ASN:HB3	1.82	0.61
2:B:439:PHE:HB3	3:C:483:PRO:HA	1.83	0.61
1:F:868:LYS:O	1:F:872:THR:N	2.25	0.61
1:F:960:GLN:OE1	1:F:960:GLN:N	2.29	0.61
1:F:1142:HIS:O	1:F:1146:ASN:N	2.33	0.61
1:F:2425:ARG:NH1	1:F:2460:GLU:OE1	2.33	0.61
1:F:4049:ARG:HH22	1:F:4058:VAL:HB	1.64	0.61
2:G:299:LYS:HG2	3:H:294:VAL:HG12	1.83	0.61
2:G:312:LEU:HD12	2:G:313:PRO:HD2	1.83	0.61
3:H:15:ASP:HB3	3:H:136:THR:HG23	1.82	0.61
1:A:152:LEU:HA	1:A:155:LYS:NZ	2.15	0.61
1:A:163:LYS:HG2	2:B:313:PRO:HD3	1.82	0.61
1:A:251:PHE:HA	1:A:254:LYS:HG2	1.82	0.61
1:A:317:GLU:HA	1:A:320:LEU:HB2	1.83	0.61
1:A:1825:LEU:HD23	1:A:1828:LEU:HD21	1.82	0.61
1:F:1622:ILE:HA	1:F:1625:HIS:HB2	1.83	0.61
2:G:261:LEU:HG	2:G:271:VAL:HG21	1.83	0.61
1:A:523:THR:O	1:A:525:LYS:N	2.34	0.60
1:A:1414:ILE:HG22	1:A:1418:HIS:CE1	2.36	0.60
3:C:629:THR:HA	3:C:632:PHE:CE2	2.35	0.60
1:F:1131:ILE:HA	1:F:1134:LEU:HD12	1.82	0.60
1:F:3713:PRO:O	1:F:3716:HIS:NE2	2.34	0.60
1:A:2841:ASN:O	1:A:2845:ASN:ND2	2.34	0.60
1:A:3059:GLN:O	1:A:3063:THR:N	2.22	0.60
1:A:3754:GLY:HA2	1:A:3800:LEU:HG	1.82	0.60
1:F:781:ASP:OD2	1:F:783:HIS:ND1	2.34	0.60
1:F:3457:ASN:ND2	1:F:3492:CYS:SG	2.74	0.60
1:F:4017:GLU:HG2	1:F:4033:VAL:HG12	1.83	0.60
3:H:305:VAL:O	3:H:307:LYS:NZ	2.34	0.60
1:A:984:TYR:O	1:A:988:VAL:N	2.33	0.60
2:B:147:LEU:HD12	2:B:189:LYS:HE2	1.83	0.60
3:C:497:ARG:NH2	3:C:501:PRO:O	2.34	0.60
1:F:339:GLN:HA	1:F:342:MET:HE2	1.83	0.60
1:F:2320:ALA:HB3	1:F:2366:LYS:HE3	1.83	0.60
1:F:2954:GLN:HA	1:F:2957:LEU:HD12	1.82	0.60
1:F:3176:MET:HA	1:F:3179:TRP:CD1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:258:ARG:NH2	5:I:33:DA:OP1	2.35	0.60
1:A:528:VAL:HG13	1:A:532:ARG:HH22	1.65	0.60
1:A:1359:LEU:H	1:A:1361:LYS:HZ2	1.49	0.60
1:A:1663:THR:H	1:A:1665:HIS:CE1	2.19	0.60
1:A:2877:SER:HB2	1:A:2928:LYS:HE3	1.84	0.60
1:A:3665:MET:SD	1:A:3666:LEU:HD22	2.41	0.60
2:B:189:LYS:HA	2:B:192:ASP:HB2	1.82	0.60
2:B:458:GLN:O	2:B:461:LYS:HG2	2.01	0.60
1:F:1831:CYS:HB2	1:F:1836:LEU:HD11	1.83	0.60
2:G:286:ILE:N	3:H:313:GLY:O	2.33	0.60
2:G:484:GLN:HE22	2:G:485:GLN:HE21	1.49	0.60
3:H:234:LEU:HD13	3:H:481:LYS:NZ	2.16	0.60
1:A:247:GLU:HA	1:A:250:ASN:HB2	1.82	0.60
1:A:738:HIS:HA	1:A:776:TRP:HE1	1.66	0.60
1:A:1115:HIS:HB3	1:A:1180:GLN:HG3	1.84	0.60
1:A:2120:ARG:HB3	1:A:2122:LEU:HD23	1.83	0.60
1:A:2261:SER:HA	1:A:2306:ASN:HD21	1.66	0.60
1:A:3738:ILE:O	1:A:3749:PRO:HA	2.01	0.60
2:B:403:ARG:NH1	2:B:404:ARG:HB3	2.16	0.60
1:F:66:LEU:HG	1:F:70:ARG:NH1	2.15	0.60
1:F:162:LEU:HD11	2:G:299:LYS:HB2	1.83	0.60
1:F:1017:ILE:HA	1:F:1026:ARG:HG2	1.83	0.60
1:F:1123:THR:HA	1:F:1126:GLN:HE22	1.67	0.60
1:F:2950:LYS:HB2	1:F:2953:THR:HG23	1.82	0.60
1:F:2987:THR:OG1	1:F:2988:GLU:OE1	2.20	0.60
3:H:642:PHE:HA	3:H:645:GLU:HB2	1.84	0.60
1:A:1191:PHE:HA	1:A:1194:PHE:CD2	2.36	0.60
1:A:2852:PRO:HA	1:A:2855:VAL:HG12	1.83	0.60
1:F:1629:CYS:HG	1:F:1633:TRP:CD1	2.20	0.60
1:F:3653:ARG:HA	1:F:3656:LEU:HD12	1.82	0.60
1:F:3882:LEU:HB3	1:F:3885:ARG:HH21	1.66	0.60
3:H:229:GLU:O	3:H:233:LYS:N	2.34	0.60
1:A:408:TYR:HE1	1:A:449:TYR:HE1	1.50	0.60
1:A:1893:GLU:H	1:A:1895:LYS:NZ	2.00	0.60
1:A:2497:GLU:HA	1:A:2500:LYS:HG2	1.84	0.60
1:A:3181:ASP:O	1:A:3184:THR:OG1	2.20	0.60
3:C:266:SER:N	3:C:361:VAL:O	2.21	0.60
1:F:1202:ARG:HH22	1:F:1210:ASP:HB2	1.67	0.60
1:F:3288:SER:O	1:F:3992:ARG:NH2	2.33	0.60
1:A:1924:THR:HA	1:A:1971:PRO:HG3	1.82	0.60
1:A:1954:CYS:SG	1:A:1955:VAL:N	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2446:LEU:HD12	1:A:2447:LYS:H	1.66	0.60
1:A:2909:ARG:HG3	1:A:2911:ARG:H	1.67	0.60
1:A:2962:ARG:NH2	1:A:4100:GLU:OE1	2.35	0.60
2:B:459:VAL:O	2:B:463:LYS:HG2	2.02	0.60
1:F:1674:THR:O	1:F:1677:SER:OG	2.20	0.60
1:F:2270:ASN:O	1:F:2274:ILE:HD12	2.01	0.60
1:F:2447:LYS:HG3	1:F:2449:VAL:HG22	1.82	0.60
1:F:3817:LEU:O	1:F:3825:LYS:NZ	2.35	0.60
2:G:388:LYS:NZ	3:H:455:ASP:OD1	2.35	0.60
3:H:412:ILE:HG23	3:H:417:GLU:HB3	1.82	0.60
1:A:70:ARG:NH1	1:A:82:ARG:HH21	1.98	0.60
1:A:193:ALA:HA	1:A:196:LEU:HD12	1.84	0.60
1:A:606:SER:HB3	1:A:1023:SER:HB3	1.83	0.60
1:A:890:LYS:N	1:A:3889:ARG:HH22	2.00	0.60
1:A:1917:LYS:HE2	3:H:725:VAL:HG22	1.82	0.60
1:A:2915:ARG:NH1	1:A:2916:LEU:O	2.33	0.60
1:A:3357:ARG:HE	1:A:3358:ARG:HH12	1.48	0.60
1:F:363:ILE:HA	1:F:366:TYR:HB2	1.83	0.60
1:F:721:TYR:O	1:F:722:LYS:NZ	2.33	0.60
1:F:1071:ASN:ND2	1:F:1073:PHE:HB2	2.16	0.60
1:F:1365:ASN:C	1:F:1370:ARG:HH12	2.10	0.60
1:F:1427:SER:HA	1:F:1430:GLU:HB2	1.83	0.60
1:F:1560:TYR:OH	1:F:1599:GLY:HA3	2.02	0.60
1:F:1568:ASN:HA	1:F:1600:MET:HE1	1.83	0.60
1:F:3988:LEU:HD23	1:F:4100:GLU:HB2	1.84	0.60
7:E:35:DT:O4	7:E:36:DA:N6	2.34	0.60
1:A:1182:GLU:OE1	1:A:1182:GLU:N	2.32	0.60
1:A:1696:LEU:O	1:A:1699:PHE:N	2.34	0.60
1:A:1776:GLU:HA	1:A:1779:GLN:NE2	2.17	0.60
1:A:2908:LYS:O	1:A:2915:ARG:NH2	2.35	0.60
1:A:3036:TYR:HB3	1:A:3040:TYR:HE2	1.66	0.60
2:B:486:HIS:O	2:B:490:LEU:HG	2.01	0.60
1:F:888:ARG:HH11	1:F:3890:MET:HB3	1.66	0.60
1:F:1755:SER:HB3	1:F:1758:LEU:HD13	1.83	0.60
1:F:4013:TRP:HZ2	1:F:4034:ALA:H	1.50	0.60
3:H:81:ARG:NH2	3:H:85:LEU:O	2.35	0.60
3:H:349:SER:OG	3:H:350:GLN:OE1	2.20	0.60
1:A:462:VAL:HG21	1:A:540:MET:HG2	1.83	0.59
1:A:1340:ARG:NH1	1:A:1343:GLU:OE1	2.35	0.59
1:A:2443:MET:HE1	1:A:2479:TRP:HB3	1.82	0.59
1:A:3387:GLU:O	1:A:3390:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3443:PRO:HG3	1:A:3475:TYR:CD1	2.37	0.59
1:A:3511:ALA:HB1	1:A:3514:VAL:HG22	1.84	0.59
1:F:242:PRO:O	1:F:246:ARG:HG2	2.01	0.59
1:F:1327:GLY:HA2	1:F:1330:TYR:HB3	1.84	0.59
1:F:1807:LYS:O	1:F:1816:ARG:NH1	2.30	0.59
1:F:3714:GLU:O	1:F:3718:ARG:NH2	2.31	0.59
1:F:3809:THR:HA	1:F:3931:ALA:HA	1.82	0.59
6:D:36:DG:H1	7:E:21:DA:H5'	1.67	0.59
1:A:369:PHE:HA	1:A:372:PRO:HG2	1.84	0.59
1:A:887:ASP:HB3	1:A:958:MET:HE1	1.83	0.59
1:A:1933:LEU:HB3	1:A:1935:GLU:HG2	1.84	0.59
1:A:2574:ASN:HB2	1:A:2787:HIS:HD2	1.66	0.59
1:A:3033:GLU:OE1	1:A:3033:GLU:N	2.25	0.59
2:B:76:ILE:HD13	2:B:248:ALA:HA	1.84	0.59
2:B:299:LYS:HB3	3:C:294:VAL:O	2.01	0.59
3:C:352:GLN:HB3	3:C:355:PHE:HB2	1.84	0.59
1:F:721:TYR:C	1:F:722:LYS:HZ3	2.09	0.59
1:F:1828:LEU:HB3	1:F:1879:VAL:HG11	1.84	0.59
1:F:1878:ASP:OD1	1:F:1879:VAL:N	2.35	0.59
1:F:3884:LYS:NZ	1:F:3969:ASN:O	2.32	0.59
2:G:318:ARG:HH21	3:H:278:VAL:HG22	1.66	0.59
3:H:261:ILE:HD12	3:H:364:VAL:HG11	1.82	0.59
3:H:489:ARG:NH1	3:H:492:GLN:OE1	2.35	0.59
1:A:528:VAL:HG23	1:A:633:ILE:HG12	1.85	0.59
1:A:677:ALA:O	1:A:681:LYS:N	2.35	0.59
1:A:1801:VAL:O	1:A:1805:PHE:N	2.35	0.59
1:A:2154:GLU:OE1	1:A:2154:GLU:N	2.31	0.59
1:A:3797:THR:HG22	1:A:3798:SER:H	1.65	0.59
1:A:3825:LYS:O	1:A:3830:SER:N	2.27	0.59
1:A:3852:VAL:HA	1:A:3855:TYR:HE1	1.67	0.59
2:B:179:ASP:OD1	2:B:182:LYS:NZ	2.34	0.59
3:C:327:ASP:HB2	3:C:331:MET:HE1	1.84	0.59
3:C:676:GLU:OE1	3:C:676:GLU:N	2.33	0.59
1:F:272:LEU:HD23	1:F:312:ALA:HA	1.83	0.59
1:F:1310:GLU:OE1	1:F:1310:GLU:N	2.34	0.59
1:F:3049:LEU:HA	1:F:3052:LEU:HD12	1.84	0.59
2:G:485:GLN:HE22	2:G:502:GLN:HA	1.68	0.59
1:A:959:TYR:HA	1:A:962:TYR:CD2	2.31	0.59
1:A:990:GLN:HE22	1:A:2779:ASP:HA	1.67	0.59
1:A:1202:ARG:HE	1:A:1207:TRP:HA	1.67	0.59
1:A:2528:GLU:OE1	1:A:2528:GLU:N	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2939:LEU:HA	1:A:2942:ILE:CG2	2.32	0.59
1:A:3882:LEU:HD13	1:A:3885:ARG:HH21	1.68	0.59
1:F:491:CYS:O	1:F:625:ASN:ND2	2.35	0.59
1:F:1271:ILE:O	1:F:1274:ARG:NH1	2.35	0.59
1:F:1555:HIS:HB3	1:F:1559:PHE:CZ	2.37	0.59
1:F:2258:GLU:OE1	1:F:2259:LYS:HD3	2.02	0.59
1:F:2886:GLN:CD	1:F:2886:GLN:H	2.11	0.59
1:F:3113:ASN:O	1:F:3117:ILE:HD12	2.02	0.59
3:H:655:PHE:HE2	3:H:688:LYS:HB3	1.67	0.59
4:J:37:DG:N1	5:I:20:DT:O2	2.20	0.59
6:D:35:DT:N3	7:E:21:DA:N1	2.48	0.59
1:A:675:ARG:O	1:A:678:LYS:HB3	2.02	0.59
1:A:889:GLU:C	1:A:3889:ARG:HH22	2.11	0.59
1:A:899:ARG:HD2	1:A:2569:SER:HA	1.84	0.59
1:A:2277:LEU:HA	1:A:2280:VAL:HG12	1.84	0.59
1:A:2297:SER:O	1:A:2301:GLN:NE2	2.29	0.59
1:A:3815:LEU:O	1:A:3819:THR:OG1	2.20	0.59
1:F:236:LYS:HZ1	1:F:239:GLU:H	1.49	0.59
1:F:1602:ASP:O	1:F:1606:ARG:N	2.33	0.59
1:F:1809:ASP:OD2	1:F:1811:ARG:NH2	2.35	0.59
1:F:3627:ALA:HA	1:F:3630:ARG:HB3	1.85	0.59
1:A:152:LEU:HD13	1:A:155:LYS:NZ	2.17	0.59
1:A:921:ALA:H	1:A:927:LYS:HZ2	1.47	0.59
1:A:2826:LEU:HA	1:A:2829:LYS:HD2	1.85	0.59
1:F:95:LYS:HE3	1:F:97:GLY:C	2.28	0.59
1:F:397:LEU:HD11	1:F:438:LEU:HB3	1.83	0.59
1:F:493:LYS:NZ	1:F:523:THR:HA	2.17	0.59
1:F:1150:LYS:NZ	1:F:1161:ALA:O	2.30	0.59
1:F:2970:LYS:HE2	1:F:2970:LYS:HA	1.83	0.59
3:H:456:ALA:HB3	3:H:533:ILE:HD11	1.85	0.59
1:A:340:TYR:O	1:A:343:GLU:N	2.36	0.59
1:A:400:THR:HG22	1:A:6023:UNK:HA	1.83	0.59
1:A:741:ILE:HG23	1:A:748:TYR:HD2	1.67	0.59
1:A:1319:GLY:N	1:A:1322:THR:O	2.35	0.59
1:A:3298:LEU:HD13	1:A:3337:ILE:HA	1.85	0.59
1:A:3901:ARG:HH12	1:A:3970:LEU:HA	1.67	0.59
2:B:297:LYS:HE3	3:C:296:CYS:SG	2.43	0.59
1:F:170:VAL:HG12	1:F:216:LYS:HG3	1.82	0.59
1:F:485:GLN:HA	1:F:488:ILE:HD12	1.85	0.59
1:F:1102:GLU:HG2	1:F:1152:ARG:HG3	1.84	0.59
1:F:1182:GLU:HA	1:F:1185:HIS:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:416:GLN:OE1	3:H:354:ARG:NH2	2.36	0.59
3:H:352:GLN:OE1	3:H:354:ARG:NH2	2.29	0.59
4:J:28:DA:C2	5:I:29:DA:C2	2.90	0.59
1:A:342:MET:HE1	1:A:369:PHE:CE1	2.38	0.59
1:A:1498:GLN:HA	1:A:1541:ALA:HB3	1.84	0.59
3:C:411:HIS:N	3:C:418:CYS:O	2.36	0.59
1:F:217:LEU:HA	1:F:220:LEU:HD12	1.85	0.59
1:F:1149:LYS:HB2	1:F:1151:ARG:NH1	2.18	0.59
1:F:3554:PHE:O	1:F:3557:ARG:NH1	2.36	0.59
1:A:19:LEU:HD11	1:A:37:GLY:HA3	1.83	0.59
1:A:151:GLU:OE1	1:A:151:GLU:N	2.36	0.59
1:A:449:TYR:HB3	1:A:453:MET:HG2	1.85	0.59
1:F:135:LEU:HA	1:F:138:PHE:CD2	2.38	0.59
1:F:1191:PHE:HA	1:F:1194:PHE:CD2	2.37	0.59
1:F:1560:TYR:CZ	1:F:1596:VAL:HA	2.38	0.59
1:F:2825:THR:O	1:F:2829:LYS:HG3	2.02	0.59
3:H:16:VAL:HG22	3:H:101:GLY:H	1.67	0.59
1:A:111:CYS:HB2	1:A:130:LEU:HD22	1.84	0.59
1:A:188:GLU:HA	1:A:191:ASN:HB2	1.84	0.59
1:A:968:VAL:HA	1:A:971:ARG:HB2	1.85	0.59
1:A:1560:TYR:OH	1:A:1599:GLY:HA3	2.03	0.59
1:A:2794:LEU:HA	1:A:2797:VAL:HG12	1.85	0.59
1:A:2887:PRO:HG2	1:A:3895:GLU:HG3	1.84	0.59
1:A:4101:GLU:O	1:A:4104:VAL:HG22	2.02	0.59
2:B:269:ILE:HA	2:B:375:VAL:HG11	1.85	0.59
1:F:1238:GLN:HB2	1:F:1245:ARG:HH21	1.67	0.59
1:F:1735:ARG:HH12	1:F:1736:PHE:HB2	1.67	0.59
1:F:2098:THR:O	1:F:2102:LYS:HG2	2.03	0.59
1:F:2897:LEU:HD21	1:F:2923:TRP:CZ2	2.38	0.59
1:F:3086:LEU:HD12	1:F:3089:LEU:HD12	1.84	0.59
1:F:3735:PRO:HB2	1:F:3751:LEU:HD11	1.84	0.59
2:G:371:GLU:O	2:G:373:SER:N	2.35	0.59
2:G:429:PRO:HG3	3:H:435:PHE:HA	1.84	0.59
1:A:979:VAL:O	1:A:983:LEU:N	2.36	0.58
1:A:1820:VAL:HG23	1:A:1824:LEU:HB2	1.85	0.58
1:A:1921:ASP:OD1	1:A:1922:ALA:N	2.36	0.58
1:A:2357:GLU:HG2	1:A:2358:ASP:N	2.17	0.58
2:B:413:LEU:HD11	2:B:432:PHE:HB3	1.85	0.58
2:B:433:GLN:NE2	3:C:354:ARG:HG2	2.17	0.58
1:F:1171:TRP:O	1:F:1175:HIS:ND1	2.36	0.58
1:F:1307:ILE:HG21	1:F:1311:LYS:HZ1	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2452:ARG:HA	1:F:2455:LEU:HD12	1.84	0.58
1:F:2993:PHE:HA	1:F:2996:LEU:HD12	1.84	0.58
1:F:3059:GLN:O	1:F:3063:THR:N	2.28	0.58
1:F:3263:HIS:HB2	1:F:3276:TRP:CE2	2.38	0.58
1:F:3576:ASP:OD1	1:F:3579:SER:OG	2.21	0.58
2:G:111:PRO:O	3:H:318:SER:CB	2.51	0.58
2:G:125:GLN:O	2:G:128:GLN:HG3	2.03	0.58
1:A:152:LEU:HD13	1:A:155:LYS:HZ3	1.66	0.58
1:A:770:LEU:O	1:A:773:LEU:HG	2.04	0.58
1:A:3470:GLN:O	1:A:3474:ARG:HG2	2.03	0.58
2:B:83:LEU:N	2:B:109:ASP:O	2.31	0.58
3:C:280:ASP:OD1	3:C:281:ALA:N	2.36	0.58
1:F:1407:LYS:HA	1:F:1412:LYS:HB2	1.84	0.58
1:F:3354:ASP:H	1:F:3357:ARG:NH2	1.99	0.58
1:F:3641:ASP:C	1:F:3643:HIS:H	2.12	0.58
2:G:85:VAL:HG22	2:G:106:GLN:NE2	2.18	0.58
3:H:496:HIS:CE1	3:H:503:GLU:HB3	2.37	0.58
1:A:332:GLU:O	1:A:335:LYS:NZ	2.29	0.58
1:A:1734:PRO:HD2	3:C:580:SER:HB2	1.86	0.58
1:A:2117:SER:N	1:A:2120:ARG:O	2.36	0.58
1:A:3913:ILE:O	1:A:3917:ILE:HD12	2.03	0.58
1:F:246:ARG:HA	1:F:249:PHE:CD2	2.38	0.58
1:F:573:LEU:HD11	1:F:649:PHE:CD1	2.38	0.58
1:F:982:GLN:HE22	1:F:2592:ASP:H	1.51	0.58
1:F:1035:GLU:HA	1:F:1038:LYS:HG2	1.83	0.58
1:F:1220:LEU:HD13	1:F:1285:GLU:HG3	1.85	0.58
1:F:2300:PHE:HA	1:F:2303:LEU:HD12	1.85	0.58
1:F:2453:GLU:OE1	1:F:2453:GLU:N	2.35	0.58
1:F:3130:GLN:O	1:F:3133:GLN:NE2	2.35	0.58
1:F:3298:LEU:HD22	1:F:3337:ILE:HD11	1.83	0.58
1:F:3447:VAL:HA	1:F:3450:MET:HE2	1.84	0.58
6:D:15:DA:H5'	7:E:42:DA:H2	1.67	0.58
1:A:103:TYR:O	1:A:107:ILE:HG12	2.04	0.58
1:A:138:PHE:HE1	1:A:146:GLU:HA	1.67	0.58
1:A:1814:PHE:HA	1:A:1817:GLN:NE2	2.18	0.58
2:B:286:ILE:N	3:C:312:GLN:OE1	2.36	0.58
2:B:416:GLN:HB3	2:B:431:GLY:N	2.17	0.58
1:F:1135:CYS:HA	1:F:1138:ILE:HG22	1.86	0.58
1:F:1781:SER:HA	1:F:1784:ARG:HH12	1.68	0.58
1:F:2130:HIS:CD2	1:F:2167:PRO:HG3	2.39	0.58
1:F:2263:LYS:HG2	1:F:2309:PHE:HZ	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2371:PHE:CZ	1:F:2373:PRO:HG2	2.38	0.58
1:F:3052:LEU:HD23	1:F:3056:GLU:HB3	1.85	0.58
2:G:297:LYS:O	3:H:295:TYR:HA	2.02	0.58
3:H:36:LYS:HG3	3:H:40:MET:HE2	1.86	0.58
6:D:32:DT:H2"	6:D:33:DA:C8	2.39	0.58
1:A:99:LYS:HZ3	1:A:144:MET:H	1.51	0.58
1:A:268:PRO:O	1:A:271:GLY:N	2.37	0.58
1:A:483:VAL:O	1:A:487:LEU:HG	2.02	0.58
1:A:518:LYS:NZ	1:A:519:TRP:O	2.35	0.58
1:A:1087:ARG:HA	1:A:1090:ARG:HE	1.67	0.58
1:A:1686:LEU:HD23	1:A:1738:ASN:HB3	1.85	0.58
1:A:2228:ARG:HA	1:A:2231:PHE:HB3	1.84	0.58
1:A:2771:LEU:HB3	1:A:2775:TYR:HE2	1.67	0.58
2:B:296:VAL:HB	3:C:296:CYS:O	2.04	0.58
2:B:469:LEU:HB3	2:B:518:LEU:HD12	1.86	0.58
3:C:384:LEU:HB2	3:C:389:MET:HB3	1.86	0.58
1:F:100:ILE:HG23	1:F:104:SER:HB3	1.86	0.58
1:F:1251:GLN:NE2	1:F:1255:CYS:SG	2.76	0.58
1:F:1293:ALA:HA	1:F:1296:PHE:CD2	2.38	0.58
1:F:1519:PHE:CD1	1:F:1570:GLU:HG2	2.39	0.58
1:F:1935:GLU:HA	1:F:1938:ARG:HG2	1.86	0.58
1:F:2310:VAL:HA	1:F:2316:TYR:CE2	2.39	0.58
1:F:3761:ASP:HA	1:F:3764:VAL:HG22	1.84	0.58
1:A:888:ARG:NH2	1:A:3889:ARG:O	2.32	0.58
1:A:1576:ASP:HA	1:A:1579:VAL:HG12	1.84	0.58
1:A:1589:ASN:HB2	1:A:1592:MET:HE2	1.84	0.58
1:A:2981:TRP:N	1:A:2985:GLU:OE2	2.37	0.58
1:A:3267:LYS:HA	1:A:3273:LEU:HD21	1.86	0.58
1:F:1912:THR:HA	1:F:1915:LEU:HD23	1.85	0.58
3:H:82:HIS:HB2	3:H:84:MET:HE1	1.85	0.58
3:H:461:MET:HE3	3:H:463:LEU:HD21	1.86	0.58
1:A:665:GLY:HA2	1:A:668:LYS:HE2	1.85	0.58
1:A:1063:LEU:HD11	1:A:1078:ALA:HA	1.85	0.58
1:A:1212:LEU:O	1:A:1216:GLY:N	2.37	0.58
1:A:1453:SER:O	1:A:1457:GLN:NE2	2.37	0.58
1:A:1526:GLU:OE1	1:A:1526:GLU:N	2.29	0.58
3:C:112:ILE:HA	3:C:115:MET:HE3	1.84	0.58
3:C:395:TYR:O	3:C:404:GLN:N	2.28	0.58
1:F:1041:ILE:HA	1:F:1044:ILE:HB	1.86	0.58
1:F:1696:LEU:HA	1:F:1699:PHE:HD2	1.68	0.58
1:F:2421:VAL:O	1:F:2425:ARG:N	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3335:ARG:HH21	1:F:3419:PHE:HA	1.69	0.58
2:G:412:ALA:N	2:G:435:VAL:O	2.36	0.58
1:A:833:HIS:HA	1:A:836:LYS:NZ	2.19	0.58
1:A:1358:LEU:HA	1:A:1361:LYS:HZ3	1.67	0.58
1:A:1444:ASP:HA	1:A:1447:ARG:HE	1.69	0.58
1:A:2287:PRO:HD3	1:A:2329:TYR:CZ	2.39	0.58
1:A:2405:VAL:HG21	1:A:2441:LYS:HB3	1.85	0.58
1:A:3901:ARG:NH2	1:A:3970:LEU:O	2.36	0.58
2:B:72:ILE:HA	2:B:75:ILE:HD12	1.86	0.58
2:B:429:PRO:HG3	3:C:435:PHE:H	1.68	0.58
3:C:395:TYR:CD1	3:C:404:GLN:HB2	2.39	0.58
1:F:146:GLU:HG3	1:F:147:PHE:CD2	2.39	0.58
1:F:1202:ARG:HB2	1:F:1207:TRP:HB2	1.84	0.58
1:F:1629:CYS:O	1:F:1633:TRP:NE1	2.36	0.58
1:F:1971:PRO:O	1:F:1973:LYS:N	2.36	0.58
1:F:2457:PRO:HA	1:F:2460:GLU:CD	2.29	0.58
3:H:181:GLY:N	3:H:521:GLU:OE2	2.36	0.58
3:H:390:VAL:HG12	3:H:409:PHE:HE1	1.69	0.58
5:I:35:DT:O4	5:I:36:DA:N6	2.36	0.58
1:A:194:GLU:HG2	1:A:195:ASN:N	2.19	0.58
1:A:767:GLU:O	1:A:770:LEU:HB3	2.04	0.58
1:A:2300:PHE:HA	1:A:2303:LEU:HD12	1.85	0.58
1:A:3252:PHE:HA	1:A:3283:LEU:HD11	1.86	0.58
1:F:225:LYS:HD3	1:F:271:GLY:H	1.67	0.58
1:F:256:ILE:HG23	1:F:257:ARG:HG2	1.86	0.58
1:F:1696:LEU:O	1:F:1699:PHE:N	2.34	0.58
1:F:1894:SER:HB3	1:F:1911:LEU:HD11	1.86	0.58
3:H:341:SER:O	3:H:394:ARG:N	2.32	0.58
1:A:350:ARG:NE	3:C:579:SER:O	2.34	0.58
1:A:1860:GLU:HG3	1:A:1862:THR:H	1.69	0.58
1:A:2273:GLY:O	1:A:2277:LEU:HG	2.03	0.58
1:A:2527:HIS:ND1	1:A:2529:THR:HG23	2.19	0.58
1:A:2935:GLU:O	1:A:2939:LEU:HG	2.03	0.58
1:A:3915:HIS:HA	1:A:3920:ILE:HD13	1.85	0.58
1:F:1326:GLU:HG3	1:F:1329:ARG:HH22	1.69	0.58
1:F:3018:SER:O	1:F:3037:GLN:NE2	2.36	0.58
3:H:53:GLU:HB2	3:H:83:LEU:HD12	1.86	0.58
4:J:19:DA:H1'	4:J:20:DT:H5'	1.85	0.58
1:A:242:PRO:O	1:A:246:ARG:HG3	2.04	0.57
1:F:435:LEU:O	1:F:439:VAL:HG23	2.04	0.57
1:F:718:MET:O	1:F:721:TYR:N	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1039:TRP:HD1	1:F:1042:LYS:HB2	1.69	0.57
1:F:3463:LEU:HA	1:F:3498:TRP:HZ2	1.69	0.57
5:I:26:DA:H1'	5:I:27:DC:H5'	1.84	0.57
1:A:2219:LEU:O	1:A:2223:VAL:HG13	2.04	0.57
1:A:3063:THR:O	1:A:3067:LYS:HG2	2.04	0.57
2:B:91:GLU:HG3	2:B:135:MET:SD	2.45	0.57
1:F:1506:SER:O	1:F:1510:LEU:HG	2.04	0.57
1:F:3964:THR:HG22	1:F:3967:PHE:CD2	2.39	0.57
2:G:203:MET:HE2	2:G:239:LEU:HB3	1.84	0.57
1:A:899:ARG:H	1:A:899:ARG:HD3	1.69	0.57
1:A:2850:PHE:HD2	1:A:2882:ALA:HB3	1.69	0.57
2:B:388:LYS:HD2	2:B:391:GLU:HG3	1.86	0.57
1:F:1060:PHE:HD1	1:F:1063:LEU:HD12	1.68	0.57
1:F:1708:GLU:H	1:F:1708:GLU:CD	2.12	0.57
1:F:2269:ASP:OD1	1:F:2270:ASN:N	2.37	0.57
2:G:419:GLU:HG2	2:G:427:VAL:HG23	1.85	0.57
3:H:295:TYR:CD2	3:H:307:LYS:HA	2.39	0.57
1:A:237:SER:O	1:A:243:GLN:HG2	2.04	0.57
1:A:310:LYS:HG3	1:A:311:ALA:H	1.69	0.57
1:A:2169:LEU:O	1:A:2173:ALA:HB2	2.04	0.57
1:A:3533:PHE:O	1:A:3537:SER:N	2.37	0.57
1:A:3834:ALA:HB3	1:A:3835:PRO:HD3	1.87	0.57
1:F:19:LEU:HD22	1:F:34:LEU:HA	1.86	0.57
1:F:387:GLU:HB2	1:F:391:ARG:NH1	2.18	0.57
1:F:632:GLU:CD	1:F:632:GLU:H	2.12	0.57
1:F:1142:HIS:CD2	1:F:1146:ASN:HD21	2.23	0.57
1:F:1574:ASN:OD1	1:F:1575:LEU:N	2.37	0.57
1:F:2497:GLU:HA	1:F:2500:LYS:HG2	1.86	0.57
1:F:4006:VAL:HG23	1:F:4011:PHE:HD2	1.70	0.57
3:H:93:ASP:HA	3:H:97:LYS:HE2	1.87	0.57
1:A:36:ARG:O	1:A:40:GLN:NE2	2.37	0.57
1:A:1149:LYS:N	1:A:1163:LEU:O	2.36	0.57
1:A:3847:SER:HA	1:A:3857:LEU:HD22	1.86	0.57
3:C:279:VAL:HB	3:C:285:LYS:N	2.18	0.57
1:F:891:ARG:N	1:F:908:ASP:OD2	2.38	0.57
1:F:1087:ARG:HA	1:F:1090:ARG:NE	2.18	0.57
1:F:1637:SER:O	1:F:1642:LYS:NZ	2.37	0.57
1:F:2228:ARG:HA	1:F:2232:ARG:NH1	2.19	0.57
1:F:2414:GLN:O	1:F:2418:LYS:HG3	2.03	0.57
1:F:2845:ASN:OD1	1:F:2846:THR:N	2.37	0.57
2:G:487:PHE:O	2:G:491:GLU:HG3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:41:PHE:O	3:H:44:ARG:HG2	2.05	0.57
3:H:651:GLU:OE2	3:H:654:ARG:NH1	2.38	0.57
1:A:1149:LYS:O	1:A:1163:LEU:N	2.33	0.57
1:A:1474:ASP:O	1:A:1476:HIS:ND1	2.37	0.57
1:A:1733:THR:HG23	1:A:1736:PHE:H	1.69	0.57
1:A:2202:PRO:HG3	1:A:2245:TRP:CE2	2.39	0.57
1:A:3781:CYS:O	1:A:3785:ALA:N	2.37	0.57
1:A:3781:CYS:SG	1:A:3786:LEU:HB2	2.44	0.57
1:A:3814:ASP:OD1	1:A:3815:LEU:N	2.36	0.57
1:A:4073:ALA:HB1	1:A:4076:ASP:HB2	1.87	0.57
1:F:303:HIS:HE1	1:F:308:LEU:HD13	1.69	0.57
1:F:888:ARG:HH22	1:F:3886:ALA:HA	1.70	0.57
1:F:3089:LEU:O	1:F:3093:GLN:NE2	2.38	0.57
2:G:343:PRO:HG3	2:G:403:ARG:HA	1.85	0.57
1:A:339:GLN:HE22	3:C:570:GLU:HA	1.69	0.57
1:A:339:GLN:NE2	3:C:570:GLU:OE1	2.38	0.57
1:A:749:VAL:O	1:A:752:LEU:HG	2.03	0.57
1:A:935:HIS:NE2	1:A:987:LEU:HD13	2.20	0.57
1:A:1278:ALA:O	1:A:1282:LEU:N	2.37	0.57
1:A:1356:TRP:NE1	1:A:1358:LEU:O	2.36	0.57
1:A:1424:THR:OG1	1:A:1427:SER:N	2.36	0.57
1:A:2376:ASP:HA	1:A:2379:MET:HE1	1.86	0.57
1:A:2574:ASN:H	1:A:2787:HIS:H	1.52	0.57
1:A:2912:GLY:HA3	1:A:2916:LEU:HG	1.85	0.57
1:A:3745:GLU:O	1:A:3746:ARG:NH1	2.37	0.57
1:A:3791:TYR:HB2	1:A:3804:GLU:OE2	2.05	0.57
1:A:4046:TYR:HB3	1:A:4050:LYS:NZ	2.19	0.57
1:A:4116:ILE:HD12	1:A:4119:ARG:HB2	1.85	0.57
2:B:52:GLN:HG3	2:B:171:ASN:CG	2.30	0.57
2:B:75:ILE:HG12	2:B:111:PRO:HB3	1.87	0.57
2:B:90:THR:HB	2:B:103:TYR:HB2	1.86	0.57
3:C:138:LEU:HB3	3:C:201:GLN:HB3	1.86	0.57
1:F:475:LEU:HD22	1:F:476:ARG:HD2	1.87	0.57
1:F:925:GLN:NE2	1:F:2768:GLN:O	2.37	0.57
1:F:2312:TYR:CD2	1:F:2315:VAL:HG23	2.38	0.57
1:F:2824:LYS:O	1:F:2829:LYS:NZ	2.38	0.57
1:A:386:VAL:HA	1:A:389:ILE:HD12	1.86	0.57
1:A:1845:VAL:HA	1:A:1848:ILE:HG12	1.87	0.57
1:A:1896:ILE:HA	1:A:1898:GLN:HE22	1.70	0.57
1:A:3410:ILE:HA	1:A:3413:TYR:HB2	1.86	0.57
1:A:3420:CYS:HB3	1:A:3446:VAL:HG12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:36:ASP:CG	2:B:163:HIS:HB3	2.30	0.57
2:B:299:LYS:HE3	2:B:301:ARG:HB2	1.86	0.57
1:F:340:TYR:HA	1:F:343:GLU:HG3	1.87	0.57
1:F:353:ASP:OD1	1:F:354:SER:N	2.36	0.57
1:F:993:HIS:ND1	1:F:2779:ASP:OD1	2.38	0.57
1:F:1574:ASN:HD21	1:F:1577:LEU:HB2	1.70	0.57
1:F:2394:LYS:HB2	1:F:2431:ARG:NH1	2.20	0.57
1:F:3833:ARG:HB2	1:F:4127:TRP:CZ2	2.40	0.57
2:G:63:SER:O	2:G:67:ILE:HG12	2.04	0.57
1:A:131:LEU:HD11	1:A:173:LYS:C	2.30	0.57
1:A:138:PHE:O	1:A:142:ARG:HD2	2.05	0.57
1:A:152:LEU:HB3	1:A:156:PHE:CE2	2.40	0.57
1:A:1241:LEU:HD21	1:A:1296:PHE:CE2	2.40	0.57
1:A:1564:SER:O	1:A:1568:ASN:ND2	2.38	0.57
1:A:3228:SER:HA	1:A:3231:ILE:HD12	1.87	0.57
1:F:1304:HIS:CG	1:F:1309:ALA:HB2	2.40	0.57
1:F:2295:GLN:HG2	1:F:2298:GLU:OE2	2.05	0.57
1:F:2563:LEU:HD13	1:F:2795:GLN:HB3	1.85	0.57
2:G:125:GLN:O	2:G:129:LYS:HG3	2.05	0.57
2:G:458:GLN:HE22	2:G:527:GLU:C	2.12	0.57
2:G:484:GLN:HA	2:G:487:PHE:HD2	1.69	0.57
3:H:210:MET:HA	3:H:213:ILE:HG12	1.85	0.57
1:A:332:GLU:HG2	1:A:333:MET:SD	2.45	0.57
1:A:1205:ASN:O	1:A:1209:LYS:HG2	2.05	0.57
1:A:2202:PRO:HG3	1:A:2245:TRP:CD2	2.39	0.57
1:A:2285:LEU:HD12	1:A:2286:PRO:HD2	1.87	0.57
1:A:2446:LEU:HD12	1:A:2447:LYS:N	2.20	0.57
1:A:2967:GLU:O	1:A:2971:GLN:HG2	2.05	0.57
1:A:3269:ARG:HB2	1:A:3272:TRP:CD2	2.39	0.57
2:B:289:TYR:HD2	2:B:292:THR:H	1.52	0.57
1:F:528:VAL:HG12	1:F:629:PHE:CD1	2.40	0.57
1:F:1897:ASN:HD22	1:F:1911:LEU:HG	1.69	0.57
1:F:3829:LEU:HB3	1:F:3833:ARG:HH21	1.70	0.57
2:G:86:VAL:HG13	2:G:104:VAL:HA	1.87	0.57
2:G:206:LYS:HG2	2:G:207:LYS:H	1.70	0.57
2:G:270:SER:H	2:G:375:VAL:HB	1.70	0.57
2:G:302:THR:OG1	3:H:289:ILE:HG23	2.05	0.57
2:G:320:GLN:NE2	3:H:276:TRP:HA	2.19	0.57
2:G:362:LEU:HD22	2:G:363:ARG:HH22	1.70	0.57
3:H:602:VAL:HA	3:H:609:PHE:CD2	2.39	0.57
6:D:19:DA:C2	6:D:20:DT:C2	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:LEU:HD13	1:A:59:PHE:HD1	1.70	0.56
1:A:163:LYS:HB3	2:B:313:PRO:HB3	1.87	0.56
1:A:339:GLN:HB3	3:C:572:GLY:HA3	1.86	0.56
1:A:1499:CYS:HG	1:A:1549:SER:N	2.03	0.56
1:A:1674:THR:O	1:A:1677:SER:OG	2.22	0.56
1:A:2881:LEU:HA	1:A:2886:GLN:NE2	2.20	0.56
1:A:2954:GLN:HA	1:A:2957:LEU:HB3	1.87	0.56
1:A:2973:ASP:OD1	1:A:2974:GLU:N	2.37	0.56
1:A:3176:MET:O	1:A:3176:MET:HE3	2.05	0.56
1:A:3315:TYR:O	1:A:3319:ASN:N	2.38	0.56
2:B:375:VAL:HG13	3:C:541:GLU:HG3	1.85	0.56
3:C:31:PHE:CE2	3:C:100:PRO:HD3	2.40	0.56
3:C:378:SER:O	3:C:382:HIS:ND1	2.38	0.56
1:F:153:PHE:HD1	1:F:178:LEU:HD11	1.69	0.56
1:F:163:LYS:HZ3	2:G:302:THR:HG22	1.70	0.56
1:F:293:LEU:O	1:F:297:LEU:HD23	2.05	0.56
1:F:663:ILE:HG22	1:F:665:GLY:H	1.70	0.56
1:F:2348:GLN:HA	1:F:2351:GLN:HG2	1.85	0.56
1:F:2586:PHE:CB	1:F:2776:ARG:HE	2.18	0.56
1:F:3005:LEU:HD23	1:F:3254:LEU:HD13	1.86	0.56
1:F:3125:ARG:O	1:F:3129:LEU:HG	2.05	0.56
1:F:3319:ASN:O	1:F:3322:ALA:N	2.38	0.56
2:G:459:VAL:HG12	2:G:463:LYS:HE2	1.87	0.56
3:H:408:ALA:HB1	3:H:419:LEU:HD12	1.87	0.56
1:A:386:VAL:O	1:A:390:GLN:NE2	2.38	0.56
1:A:734:LEU:HD13	1:A:768:VAL:HG23	1.87	0.56
3:C:381:ILE:HG21	3:C:417:GLU:HB2	1.86	0.56
1:F:1795:VAL:HA	1:F:1798:LEU:HG	1.87	0.56
1:F:1826:THR:O	1:F:1830:HIS:N	2.35	0.56
1:F:2258:GLU:O	1:F:2261:SER:OG	2.21	0.56
1:F:3530:VAL:O	1:F:3534:ILE:HG12	2.05	0.56
1:F:3859:TYR:HB3	1:F:4077:TYR:HE1	1.69	0.56
3:H:645:GLU:HA	3:H:648:LYS:HE2	1.87	0.56
4:J:21:DA:H1'	4:J:22:DG:C8	2.39	0.56
1:A:363:ILE:HA	1:A:366:TYR:HD2	1.69	0.56
1:A:454:GLN:HA	1:A:457:CYS:HB2	1.88	0.56
1:A:623:PHE:O	1:A:626:LEU:HG	2.06	0.56
1:A:703:CYS:HB2	1:A:707:PHE:CZ	2.40	0.56
1:A:957:PRO:HB3	1:A:1004:GLN:HG3	1.86	0.56
1:A:997:ASN:ND2	1:A:1000:LYS:H	2.02	0.56
1:A:1154:PRO:HG2	1:A:1157:PHE:HD2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1444:ASP:O	1:A:1447:ARG:HG2	2.05	0.56
1:A:3263:HIS:O	1:A:3267:LYS:N	2.38	0.56
1:A:3263:HIS:HA	1:A:3266:SER:HB3	1.87	0.56
1:A:3729:MET:O	1:A:3734:ARG:HA	2.06	0.56
1:A:3831:ASP:HB3	1:A:3835:PRO:HG2	1.87	0.56
3:C:59:PHE:HB3	3:C:110:ALA:HB2	1.87	0.56
3:C:496:HIS:CE1	3:C:506:PRO:HA	2.40	0.56
3:C:512:ILE:HA	3:C:515:MET:HE3	1.87	0.56
1:F:468:LEU:HD21	1:F:478:CYS:HB2	1.88	0.56
1:F:562:HIS:CE1	1:F:563:LEU:HG	2.41	0.56
1:F:1738:ASN:HA	1:F:1741:ASP:HB2	1.87	0.56
1:F:2324:GLY:HA2	1:F:2367:VAL:HG23	1.87	0.56
1:F:2470:ARG:HA	1:F:2473:MET:HE2	1.86	0.56
1:F:3360:LEU:O	1:F:3364:GLY:N	2.39	0.56
1:F:3414:MET:HE1	1:F:3450:MET:HG3	1.87	0.56
1:F:3658:ASP:OD1	1:F:3659:PHE:N	2.36	0.56
1:F:6009:UNK:O	1:F:6013:UNK:N	2.38	0.56
2:G:34:GLY:HA2	2:G:160:LYS:HG3	1.86	0.56
3:H:663:GLN:O	3:H:666:VAL:HG12	2.05	0.56
7:E:32:DA:H2"	7:E:33:DA:N7	2.20	0.56
7:E:34:DC:H2"	7:E:35:DT:C6	2.40	0.56
1:A:327:VAL:C	1:A:329:LYS:H	2.14	0.56
1:A:1338:VAL:HA	1:A:1341:ILE:HD12	1.87	0.56
1:A:1515:LEU:HD11	1:A:1566:THR:HB	1.86	0.56
1:A:2184:TYR:O	1:A:2187:VAL:HG22	2.06	0.56
1:A:2332:GLU:O	1:A:2334:LYS:N	2.37	0.56
1:A:2332:GLU:C	1:A:2334:LYS:H	2.14	0.56
1:F:360:SER:O	1:F:364:ARG:HG3	2.04	0.56
1:F:1056:THR:HA	1:F:1059:LEU:HD12	1.88	0.56
1:F:3904:PHE:CE1	1:F:3937:VAL:HB	2.41	0.56
1:F:4100:GLU:O	1:F:4104:VAL:HG23	2.06	0.56
2:G:273:ILE:N	2:G:273:ILE:HD12	2.20	0.56
3:H:118:ILE:O	3:H:122:THR:HG23	2.05	0.56
1:A:760:LEU:HD11	1:A:799:TYR:N	2.20	0.56
1:A:1142:HIS:O	1:A:1146:ASN:N	2.38	0.56
1:A:2190:VAL:HA	1:A:2193:ILE:HD12	1.87	0.56
1:A:3673:ASP:OD1	1:A:3673:ASP:N	2.37	0.56
1:A:3724:GLU:HB2	1:A:3741:ARG:HH22	1.71	0.56
1:A:6007:UNK:O	1:A:6011:UNK:N	2.39	0.56
3:C:655:PHE:CZ	3:C:659:LEU:HD11	2.40	0.56
1:F:238:MET:SD	1:F:282:PHE:HA	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:256:ILE:HD13	3:H:554:PHE:HA	1.87	0.56
1:F:972:LEU:HB3	1:F:984:TYR:OH	2.05	0.56
1:F:2190:VAL:HA	1:F:2193:ILE:HD12	1.87	0.56
1:F:2429:ASP:OD1	1:F:2430:GLU:N	2.38	0.56
1:F:2887:PRO:HA	1:F:2890:ILE:HB	1.86	0.56
1:A:1424:THR:HG1	1:A:1427:SER:H	1.52	0.56
1:A:2434:VAL:O	1:A:2438:ILE:HG12	2.06	0.56
3:C:615:GLN:N	3:C:615:GLN:OE1	2.38	0.56
1:F:202:GLY:O	1:F:206:THR:OG1	2.22	0.56
1:F:265:TYR:HH	1:F:303:HIS:CG	2.23	0.56
1:F:1038:LYS:HB2	1:F:1042:LYS:HE2	1.88	0.56
1:F:1769:GLU:H	1:F:1772:HIS:CE1	2.23	0.56
1:F:2332:GLU:O	1:F:2333:ARG:HD2	2.06	0.56
1:F:2512:ASP:OD1	1:F:2513:GLU:N	2.38	0.56
1:F:2522:ARG:HA	1:F:2525:TRP:HD1	1.70	0.56
1:F:3189:PHE:CZ	1:F:3193:ILE:HD11	2.41	0.56
1:F:3594:ALA:HA	1:F:4032:ASN:HA	1.88	0.56
2:G:363:ARG:NH1	3:H:269:GLN:OE1	2.39	0.56
3:H:37:VAL:HA	3:H:40:MET:HE3	1.88	0.56
1:A:833:HIS:HE1	1:A:837:THR:HG23	1.70	0.56
1:A:1188:ILE:HG13	1:A:1189:GLU:N	2.20	0.56
1:A:2510:LEU:C	1:A:2518:GLN:HE22	2.14	0.56
1:A:2534:ASN:HB3	1:A:2537:ASP:CB	2.34	0.56
1:A:4102:THR:HA	1:A:4105:LYS:HE2	1.88	0.56
1:F:553:VAL:HG11	1:F:1550:VAL:HG22	1.88	0.56
1:F:878:GLU:HB2	1:F:883:TYR:CE1	2.40	0.56
1:F:1261:LEU:HD21	1:F:1337:VAL:HA	1.87	0.56
1:F:1825:LEU:HA	1:F:1828:LEU:HB2	1.87	0.56
1:F:2151:ILE:HD13	1:F:2188:GLU:HG3	1.87	0.56
1:F:2224:PHE:HD1	1:F:2231:PHE:CE1	2.24	0.56
1:F:3988:LEU:HA	1:F:3991:PHE:CD2	2.41	0.56
2:G:332:GLU:O	2:G:335:GLU:HG2	2.05	0.56
4:J:19:DA:N6	5:I:39:DA:N1	2.52	0.56
1:A:1107:TYR:CE2	1:A:1111:LEU:HD11	2.40	0.56
1:A:1401:ASN:HA	1:A:1404:LYS:HE3	1.87	0.56
1:A:2213:ASN:HA	1:A:2216:LEU:HD12	1.88	0.56
1:A:2447:LYS:HD2	1:A:2449:VAL:HG12	1.87	0.56
1:A:3247:ARG:HH12	1:A:3279:SER:HA	1.71	0.56
1:A:3534:ILE:HD13	1:A:3572:ILE:HD11	1.88	0.56
2:B:344:GLY:O	2:B:399:ARG:NH1	2.31	0.56
2:B:372:GLU:OE1	2:B:377:GLY:N	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:456:PRO:HA	2:B:459:VAL:HG23	1.86	0.56
1:F:3730:ALA:HA	1:F:3734:ARG:HE	1.70	0.56
3:H:489:ARG:NH2	3:H:493:CYS:SG	2.79	0.56
3:H:677:ILE:HA	3:H:680:GLN:HB3	1.88	0.56
1:A:862:LEU:HD22	1:A:867:ASN:HB3	1.87	0.56
1:A:921:ALA:H	1:A:927:LYS:NZ	2.04	0.56
1:A:1955:VAL:HG22	1:A:1956:PHE:H	1.71	0.56
1:A:2216:LEU:HA	1:A:2219:LEU:HD12	1.88	0.56
1:A:3844:THR:HG23	1:A:3850:HIS:CE1	2.41	0.56
2:B:238:LYS:HD2	2:B:241:ASP:HB2	1.88	0.56
1:F:17:GLU:HA	1:F:20:SER:OG	2.06	0.56
1:F:484:HIS:HD2	1:F:571:SER:HA	1.70	0.56
1:F:1346:THR:HG22	1:F:1402:LEU:HD13	1.87	0.56
1:F:1512:SER:HA	1:F:1563:PHE:HE2	1.71	0.56
1:F:1639:LEU:C	1:F:1643:MET:HE3	2.30	0.56
1:F:2821:ASP:HA	1:F:2829:LYS:HD3	1.87	0.56
1:F:2878:ALA:HA	1:F:2881:LEU:HD12	1.88	0.56
1:F:3915:HIS:O	1:F:3920:ILE:N	2.36	0.56
1:F:3963:LEU:HD11	1:F:3968:ILE:HD11	1.88	0.56
2:G:164:LYS:HG3	2:G:198:ILE:HG13	1.87	0.56
2:G:409:TYR:HB3	2:G:436:PHE:HE1	1.71	0.56
3:H:115:MET:O	3:H:115:MET:HE3	2.05	0.56
3:H:395:TYR:N	3:H:404:GLN:O	2.32	0.56
1:A:73:LEU:HD12	1:A:75:SER:H	1.71	0.56
1:A:305:ASN:O	1:A:309:LYS:NZ	2.38	0.56
1:A:1886:LYS:O	1:A:1889:VAL:HG12	2.06	0.56
1:A:2446:LEU:HD11	1:A:2450:GLU:HB2	1.87	0.56
1:A:2939:LEU:O	1:A:2942:ILE:HG23	2.05	0.56
1:A:3235:LYS:O	1:A:3239:LYS:HG2	2.06	0.56
1:A:3700:GLU:HA	1:A:3718:ARG:HA	1.88	0.56
1:F:22:ALA:HB3	1:F:34:LEU:HD21	1.88	0.56
1:F:888:ARG:NH1	1:F:3890:MET:HB3	2.21	0.56
1:F:892:LEU:N	1:F:908:ASP:OD2	2.38	0.56
1:F:1844:VAL:HB	1:F:1898:GLN:HB3	1.88	0.56
1:F:2470:ARG:HA	1:F:2473:MET:CE	2.36	0.56
2:G:504:VAL:HG13	2:G:508:LEU:HD13	1.86	0.56
3:H:663:GLN:HG2	3:H:702:LYS:HD3	1.88	0.56
1:A:1431:LEU:HB3	1:A:1448:LEU:HD21	1.88	0.55
1:A:2920:VAL:HA	1:A:2923:TRP:CD1	2.40	0.55
1:A:3154:GLN:O	1:A:3158:LYS:HG3	2.06	0.55
1:A:3525:TYR:OH	1:A:3711:PRO:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:214:GLU:HB2	1:F:217:LEU:HD11	1.88	0.55
1:F:573:LEU:HD11	1:F:649:PHE:HD1	1.70	0.55
1:F:1264:LEU:HD22	1:F:1340:ARG:HB3	1.88	0.55
1:F:1483:LEU:HD11	1:F:1518:ALA:HB1	1.87	0.55
1:F:1488:TYR:HA	1:F:1559:PHE:CZ	2.41	0.55
1:F:1574:ASN:HD21	1:F:1578:ALA:H	1.53	0.55
1:F:2425:ARG:CZ	1:F:2457:PRO:HB3	2.36	0.55
1:F:2492:ASP:OD1	1:F:2493:ASN:N	2.40	0.55
1:F:3096:VAL:HG13	1:F:3100:LYS:NZ	2.22	0.55
1:F:3495:PHE:HA	1:F:3498:TRP:CD1	2.41	0.55
1:F:3667:LEU:O	1:F:3671:ASN:ND2	2.39	0.55
2:G:270:SER:OG	2:G:378:SER:OG	2.23	0.55
3:H:57:VAL:HG12	3:H:79:VAL:HG13	1.87	0.55
1:A:356:ASN:HD21	1:A:406:ARG:HH11	1.54	0.55
1:A:1181:THR:O	1:A:1185:HIS:ND1	2.39	0.55
1:A:1899:VAL:HB	1:A:1911:LEU:HD12	1.88	0.55
1:A:2945:SER:O	1:A:3975:LYS:NZ	2.32	0.55
1:A:3061:LEU:O	1:A:3065:ILE:HG13	2.06	0.55
2:B:419:GLU:H	2:B:426:GLN:HE22	1.54	0.55
2:B:482:VAL:O	2:B:486:HIS:ND1	2.39	0.55
1:F:1291:LEU:HD13	1:F:1363:LEU:HB2	1.87	0.55
1:F:1407:LYS:HD3	1:F:1463:LEU:HD21	1.88	0.55
1:F:1735:ARG:HA	1:F:1738:ASN:ND2	2.20	0.55
1:F:1972:GLU:C	1:F:1973:LYS:HD2	2.31	0.55
1:F:2477:LEU:HD21	1:F:2505:VAL:HG23	1.88	0.55
2:G:93:ASP:CG	2:G:100:LYS:HA	2.31	0.55
2:G:95:ASN:OD1	2:G:98:ASN:HA	2.06	0.55
3:H:7:LYS:HD2	3:H:125:LYS:HZ1	1.71	0.55
3:H:384:LEU:HD23	3:H:410:PRO:HG3	1.87	0.55
3:H:647:ILE:HG23	3:H:652:GLU:HB3	1.87	0.55
1:A:923:ASP:O	1:A:926:THR:N	2.40	0.55
1:A:2125:TRP:CD1	1:A:2125:TRP:H	2.23	0.55
1:A:2327:LEU:HB3	1:A:2371:PHE:CG	2.42	0.55
1:A:3443:PRO:CB	1:A:3478:GLU:CB	2.61	0.55
1:A:3763:ARG:O	1:A:3767:LEU:HG	2.06	0.55
1:A:3920:ILE:HG23	1:A:3944:HIS:HD2	1.69	0.55
2:B:193:LEU:O	2:B:197:GLY:N	2.34	0.55
1:F:314:SER:HA	1:F:317:GLU:HG3	1.88	0.55
1:F:708:VAL:HG22	1:F:740:ILE:HG13	1.88	0.55
1:F:1597:LEU:O	1:F:1601:LEU:HG	2.06	0.55
1:F:1669:PRO:HA	1:F:1672:PHE:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2254:ARG:HA	1:F:2257:PHE:HB3	1.88	0.55
1:F:2414:GLN:HG3	2:G:148:TRP:CZ2	2.40	0.55
1:F:3493:TRP:HB3	1:F:3525:TYR:CE2	2.41	0.55
1:F:4002:MET:O	1:F:4006:VAL:HG12	2.05	0.55
2:G:91:GLU:OE2	2:G:137:HIS:N	2.39	0.55
2:G:329:LEU:HB3	2:G:333:GLU:OE2	2.06	0.55
1:A:278:HIS:C	1:A:281:GLN:HE22	2.15	0.55
1:A:925:GLN:HE22	1:A:2769:VAL:HA	1.70	0.55
1:A:1513:GLY:O	1:A:1517:LEU:HG	2.06	0.55
1:A:2120:ARG:NH2	1:A:2160:TYR:HA	2.22	0.55
1:A:2563:LEU:HD13	1:A:2795:GLN:HB2	1.88	0.55
1:A:3037:GLN:O	1:A:3041:LEU:HG	2.07	0.55
1:A:3357:ARG:HB3	1:A:3358:ARG:NH1	2.21	0.55
1:A:3413:TYR:HA	1:A:3449:LYS:HZ1	1.69	0.55
1:A:3739:ILE:H	1:A:3739:ILE:HD12	1.71	0.55
2:B:120:ASP:O	2:B:123:LYS:NZ	2.33	0.55
3:C:87:ASP:HB3	3:C:90:LEU:HD13	1.89	0.55
1:F:860:GLY:HA3	1:F:3136:THR:OG1	2.06	0.55
1:F:899:ARG:NH2	1:F:2533:SER:O	2.38	0.55
1:F:1100:VAL:HB	1:F:1138:ILE:HD12	1.89	0.55
1:F:1125:GLN:H	1:F:1125:GLN:CD	2.15	0.55
1:F:1224:PHE:HZ	1:F:1281:VAL:HG13	1.71	0.55
1:F:1729:PHE:HB3	1:F:1735:ARG:NH1	2.20	0.55
1:F:1984:LEU:HA	1:F:2178:GLY:HA3	1.88	0.55
1:F:2154:GLU:OE1	1:F:2154:GLU:N	2.39	0.55
1:F:2851:PHE:CE2	1:F:2853:PRO:HB2	2.41	0.55
1:F:3123:GLN:O	1:F:3127:THR:HG23	2.07	0.55
1:F:3327:ASN:HB2	1:F:3388:ALA:HB2	1.86	0.55
2:G:40:PHE:HB2	2:G:85:VAL:CG1	2.37	0.55
2:G:273:ILE:HG22	2:G:366:LEU:HG	1.88	0.55
2:G:457:GLU:OE2	2:G:458:GLN:NE2	2.38	0.55
1:A:565:TYR:HA	1:A:568:PHE:CD2	2.41	0.55
1:A:1690:GLY:O	1:A:1693:VAL:HG22	2.07	0.55
1:A:1891:ALA:O	1:A:1908:GLY:N	2.40	0.55
1:A:2158:ARG:NH2	1:A:2196:TRP:HB3	2.16	0.55
1:A:2295:GLN:NE2	1:A:2298:GLU:OE1	2.33	0.55
1:A:3029:LYS:HA	1:A:3031:TRP:CD1	2.42	0.55
3:C:617:ILE:HA	3:C:620:ILE:HD12	1.87	0.55
1:F:982:GLN:HE21	1:F:2591:ILE:HG23	1.72	0.55
1:F:1369:MET:O	1:F:1418:HIS:ND1	2.40	0.55
1:F:1576:ASP:HB2	1:F:1625:HIS:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1946:ASN:HA	1:F:1949:ILE:HD12	1.89	0.55
1:F:1967:PHE:C	1:F:1969:GLU:H	2.12	0.55
1:F:2947:ILE:HD11	1:F:2989:ALA:HB3	1.88	0.55
1:F:2962:ARG:NE	1:F:2962:ARG:HA	2.22	0.55
1:F:3098:ARG:H	1:F:3098:ARG:HD3	1.69	0.55
2:G:420:LEU:HB2	2:G:426:GLN:NE2	2.21	0.55
1:A:997:ASN:O	1:A:1001:PHE:HB2	2.07	0.55
2:B:206:LYS:HG2	2:B:207:LYS:H	1.72	0.55
2:B:385:LEU:HA	2:B:388:LYS:HB3	1.88	0.55
3:C:105:ALA:O	3:C:140:SER:OG	2.20	0.55
3:C:437:SER:HB2	3:C:440:ASN:ND2	2.22	0.55
1:F:140:SER:O	1:F:142:ARG:NH1	2.40	0.55
1:F:316:LEU:HD23	1:F:320:LEU:HD23	1.89	0.55
1:F:803:SER:OG	1:F:852:ARG:NH2	2.39	0.55
1:F:1729:PHE:HB3	1:F:1735:ARG:HH12	1.72	0.55
1:F:2320:ALA:HA	1:F:2323:LEU:HD12	1.88	0.55
1:F:3040:TYR:HA	1:F:3043:TYR:CD2	2.37	0.55
1:F:3097:ASP:N	1:F:3097:ASP:OD1	2.38	0.55
1:F:3422:GLN:HE21	1:F:3423:GLN:NE2	2.03	0.55
1:F:3700:GLU:HA	1:F:3718:ARG:HG3	1.88	0.55
1:F:3856:MET:HE3	1:F:4072:PRO:HD2	1.88	0.55
3:H:37:VAL:HB	3:H:41:PHE:HE1	1.72	0.55
3:H:106:ASP:HA	3:H:142:PHE:HA	1.88	0.55
1:A:279:ALA:HB1	1:A:322:GLN:CD	2.32	0.55
1:A:531:PHE:CD2	1:A:633:ILE:HD13	2.41	0.55
1:A:538:ASP:OD1	1:A:539:GLN:N	2.36	0.55
1:A:1353:PRO:O	1:A:1357:LYS:HA	2.07	0.55
1:A:2586:PHE:CZ	1:A:2782:ASP:HB3	2.42	0.55
1:A:2917:PRO:HB2	1:A:2920:VAL:HG22	1.89	0.55
2:B:95:ASN:HD22	2:B:102:ILE:CG2	2.18	0.55
2:B:420:LEU:HD21	2:B:424:LYS:HA	1.88	0.55
3:C:501:PRO:HD2	3:C:502:ARG:HH22	1.70	0.55
1:F:772:ALA:O	1:F:775:GLU:HB3	2.07	0.55
1:F:828:LYS:H	1:F:832:LYS:HZ1	1.54	0.55
1:F:1506:SER:HA	1:F:1509:GLN:HE21	1.71	0.55
1:F:1766:LEU:HG	1:F:1822:ARG:HE	1.72	0.55
1:F:3544:ASP:OD2	1:F:3546:SER:OG	2.20	0.55
2:G:514:MET:SD	2:G:515:ASN:N	2.79	0.55
3:H:232:ARG:HD2	3:H:477:PHE:HE1	1.72	0.55
1:A:435:LEU:HA	1:A:438:LEU:HD12	1.88	0.55
1:A:582:THR:OG1	1:A:615:ALA:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:894:PHE:O	1:A:905:ILE:HG12	2.06	0.55
1:A:1304:HIS:O	1:A:1330:TYR:OH	2.24	0.55
1:A:1444:ASP:N	1:A:1444:ASP:OD1	2.40	0.55
1:A:1492:ALA:HB3	1:A:1495:ASP:OD1	2.07	0.55
1:A:1972:GLU:OE1	1:A:1972:GLU:N	2.38	0.55
1:A:2851:PHE:HB3	1:A:2854:PHE:CB	2.36	0.55
1:A:4062:ASP:HA	1:A:4065:LEU:HB2	1.87	0.55
2:B:40:PHE:HB2	2:B:85:VAL:HG12	1.88	0.55
2:B:361:TYR:H	3:C:267:ILE:HG13	1.72	0.55
3:C:37:VAL:O	3:C:40:MET:HB3	2.07	0.55
3:C:181:GLY:N	3:C:188:HIS:HD1	2.05	0.55
1:F:493:LYS:HZ1	1:F:523:THR:HA	1.71	0.55
1:F:1297:PHE:HB3	1:F:1367:HIS:CE1	2.42	0.55
1:F:2383:PHE:CD1	1:F:2418:LYS:HE3	2.42	0.55
1:F:2792:THR:O	1:F:2795:GLN:HG3	2.06	0.55
1:F:3557:ARG:HA	1:F:3560:SER:OG	2.07	0.55
1:A:13:LEU:O	1:A:16:GLN:N	2.40	0.55
1:A:407:VAL:O	1:A:449:TYR:CE2	2.49	0.55
1:A:1563:PHE:HB3	1:A:1566:THR:OG1	2.07	0.55
1:A:2230:VAL:HA	1:A:2233:HIS:HB3	1.89	0.55
1:A:2351:GLN:O	1:A:2356:MET:HB2	2.05	0.55
1:A:2886:GLN:HG3	1:A:2929:LEU:HD12	1.89	0.55
1:A:3664:ASN:HA	1:A:3667:LEU:HD12	1.89	0.55
1:A:3739:ILE:HD12	1:A:3739:ILE:N	2.21	0.55
1:F:2394:LYS:O	1:F:2398:LEU:HG	2.07	0.55
1:F:2542:LEU:HA	1:F:2545:LEU:HB2	1.89	0.55
1:F:2884:LEU:HD13	1:F:2886:GLN:HE22	1.71	0.55
1:F:3678:GLY:HA3	1:F:3683:CYS:HB2	1.88	0.55
1:F:3700:GLU:HA	1:F:3718:ARG:HA	1.88	0.55
3:H:199:GLU:HA	3:H:202:LYS:HB2	1.89	0.55
1:A:32:HIS:O	1:A:35:ILE:HB	2.07	0.55
1:A:3834:ALA:HA	1:A:3838:GLU:OE2	2.07	0.55
3:C:404:GLN:HB3	3:C:421:TYR:OH	2.07	0.55
1:F:89:LEU:HD23	1:F:133:LYS:HD3	1.89	0.55
1:F:3324:ARG:NE	1:F:3391:ALA:O	2.40	0.55
2:G:271:VAL:HG12	2:G:370:PRO:N	2.20	0.55
2:G:319:SER:N	3:H:277:THR:O	2.38	0.55
1:A:79:ARG:HH21	1:A:124:LYS:N	2.02	0.54
1:A:563:LEU:O	1:A:567:GLU:OE1	2.25	0.54
1:A:773:LEU:HA	1:A:776:TRP:CE3	2.41	0.54
1:A:1656:ASP:OD1	1:A:1657:SER:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1668:PHE:HB3	1:A:1669:PRO:HD3	1.89	0.54
1:A:2375:ALA:O	1:A:2378:PHE:N	2.25	0.54
1:A:2426:HIS:NE2	1:A:2428:ASP:HB2	2.22	0.54
1:A:2873:PRO:HB2	1:A:2925:GLU:HG3	1.88	0.54
1:A:3852:VAL:HA	1:A:3855:TYR:CE1	2.41	0.54
1:A:4071:ALA:O	1:A:4074:PHE:HB2	2.07	0.54
2:B:450:GLU:C	2:B:451:LYS:HD3	2.32	0.54
3:C:300:ASP:OD1	3:C:301:ASP:N	2.40	0.54
1:F:236:LYS:HE2	1:F:239:GLU:HB2	1.89	0.54
1:F:759:GLY:HA2	1:F:765:LEU:HD23	1.88	0.54
1:F:1232:PRO:HB2	1:F:3695:LEU:HD13	1.88	0.54
1:F:1664:SER:HA	1:F:1668:PHE:HD2	1.71	0.54
1:F:1675:TYR:CZ	1:F:1679:LEU:HD21	2.43	0.54
1:F:2852:PRO:HA	1:F:2855:VAL:HG22	1.89	0.54
1:F:2856:SER:HA	1:F:2859:GLN:NE2	2.21	0.54
1:F:3693:GLU:HG2	1:F:3696:ARG:HE	1.72	0.54
3:H:45:GLN:O	3:H:50:ASN:N	2.40	0.54
3:H:457:LEU:HA	3:H:460:SER:HB3	1.90	0.54
1:A:493:LYS:HD3	1:A:522:PRO:HB3	1.88	0.54
1:A:744:ASP:OD1	1:A:746:ARG:HG2	2.07	0.54
1:A:1359:LEU:H	1:A:1361:LYS:NZ	2.04	0.54
1:A:1718:ILE:HB	1:A:1722:PHE:CE2	2.42	0.54
1:A:2328:ARG:HB2	1:A:2370:SER:O	2.07	0.54
1:A:2395:THR:OG1	1:A:2431:ARG:NH2	2.40	0.54
1:A:2937:ASP:CG	1:A:3982:SER:HB3	2.32	0.54
1:A:3755:GLY:HA2	1:A:3799:ARG:HG2	1.89	0.54
1:A:3791:TYR:HB3	1:A:3806:LEU:HD11	1.88	0.54
2:B:273:ILE:HG22	2:B:366:LEU:HG	1.89	0.54
3:C:60:GLY:H	3:C:105:ALA:HB3	1.71	0.54
1:F:762:TYR:O	1:F:765:LEU:HB3	2.07	0.54
1:F:1058:SER:O	1:F:1062:ARG:HG2	2.07	0.54
1:F:1527:ARG:HH22	1:F:1531:LEU:HD21	1.73	0.54
1:F:1676:ILE:HA	1:F:1679:LEU:HD12	1.89	0.54
1:F:3269:ARG:HB3	1:F:3272:TRP:HE3	1.73	0.54
2:G:99:PHE:HB2	2:G:102:ILE:HD13	1.89	0.54
2:G:259:LEU:HG	2:G:260:LYS:H	1.72	0.54
1:A:1917:LYS:NZ	3:H:725:VAL:HA	2.22	0.54
1:A:2893:LEU:HD12	1:A:2926:LEU:HD13	1.89	0.54
1:A:2996:LEU:HA	1:A:2999:LEU:HD12	1.87	0.54
1:A:3187:CYS:SG	1:A:3238:MET:HE3	2.48	0.54
1:A:3603:LYS:HD2	1:A:3651:LEU:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3844:THR:HA	1:A:3850:HIS:CD2	2.42	0.54
2:B:237:SER:OG	2:B:238:LYS:N	2.38	0.54
2:B:336:GLU:OE2	2:B:339:ARG:NH2	2.40	0.54
3:C:460:SER:O	3:C:461:MET:HE2	2.07	0.54
1:F:138:PHE:O	1:F:142:ARG:NH2	2.37	0.54
1:F:852:ARG:NE	1:F:3111:MET:HE2	2.22	0.54
1:F:876:SER:O	1:F:880:MET:HG3	2.07	0.54
1:F:1770:GLN:HB2	1:F:1814:PHE:CZ	2.42	0.54
1:F:1774:MET:HB3	1:F:1777:LEU:HD23	1.89	0.54
1:F:1862:THR:O	1:F:1866:GLN:HG3	2.07	0.54
1:F:3457:ASN:HB2	1:F:3491:PRO:HG2	1.90	0.54
3:H:339:CYS:HB2	3:H:396:ALA:HB3	1.89	0.54
1:A:739:ASN:HA	1:A:742:GLU:CD	2.32	0.54
1:A:770:LEU:O	1:A:773:LEU:N	2.40	0.54
1:A:1834:ASP:HA	1:A:1837:ARG:HH12	1.71	0.54
1:A:1893:GLU:HG2	1:A:1894:SER:N	2.22	0.54
1:F:1767:CYS:HA	1:F:1822:ARG:NH2	2.23	0.54
1:F:1851:LEU:C	1:F:1852:LYS:HD3	2.33	0.54
1:F:3065:ILE:HD12	1:F:3068:ALA:HB3	1.90	0.54
1:F:3924:HIS:HD2	1:F:3926:ASN:HB2	1.71	0.54
1:F:4039:TYR:HD2	1:F:4066:LEU:HG	1.72	0.54
1:A:148:LYS:O	1:A:152:LEU:HD23	2.06	0.54
1:A:3516:HIS:NE2	1:A:3520:GLU:OE2	2.41	0.54
2:B:287:LYS:HB2	3:C:310:ILE:HD11	1.90	0.54
3:C:411:HIS:HB3	3:C:418:CYS:HB3	1.90	0.54
1:F:194:GLU:HA	1:F:197:PHE:CD2	2.42	0.54
1:F:2154:GLU:HA	1:F:2157:PHE:CE1	2.42	0.54
1:F:2332:GLU:O	1:F:2333:ARG:NH1	2.37	0.54
1:F:3090:TYR:HE2	1:F:3102:TYR:CD2	2.24	0.54
1:F:3123:GLN:HG2	1:F:3124:SER:N	2.23	0.54
2:G:397:LEU:HA	2:G:412:ALA:HA	1.90	0.54
2:G:471:PHE:HD2	3:H:344:GLY:HA3	1.71	0.54
2:G:473:TYR:HB2	3:H:346:CYS:HB3	1.90	0.54
1:A:386:VAL:HG12	1:A:390:GLN:NE2	2.16	0.54
1:A:857:GLN:O	1:A:861:SER:N	2.27	0.54
1:A:1039:TRP:CD1	1:A:1043:GLN:HB2	2.42	0.54
1:A:1801:VAL:HA	1:A:1804:MET:HB3	1.90	0.54
1:A:1803:GLU:HA	1:A:1806:ARG:NH1	2.23	0.54
1:A:2429:ASP:OD1	1:A:2430:GLU:N	2.41	0.54
1:A:2952:ILE:HG12	1:A:2972:TYR:CE1	2.43	0.54
1:A:3544:ASP:OD2	1:A:3546:SER:OG	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:214:SER:HB3	2:B:218:ARG:HG2	1.89	0.54
3:C:271:ARG:NH2	3:C:272:VAL:O	2.40	0.54
1:F:80:GLU:HA	1:F:83:GLU:HG2	1.89	0.54
1:F:307:GLU:HA	1:F:310:LYS:NZ	2.22	0.54
1:F:727:ALA:O	1:F:731:THR:OG1	2.21	0.54
1:F:1358:LEU:HD13	1:F:1362:ASP:HB3	1.90	0.54
1:F:2353:GLN:HB3	1:F:2360:PHE:CD1	2.42	0.54
1:F:2499:PHE:CE1	1:F:2503:LYS:HE2	2.42	0.54
1:F:2522:ARG:HA	1:F:2525:TRP:CD1	2.43	0.54
1:F:3341:LEU:HD22	1:F:3374:ILE:HG21	1.89	0.54
2:G:91:GLU:H	2:G:135:MET:HE2	1.73	0.54
2:G:482:VAL:HG12	2:G:486:HIS:HE1	1.72	0.54
3:H:552:GLU:HG3	3:H:553:ILE:N	2.21	0.54
1:A:105:VAL:HG13	1:A:108:LYS:HE3	1.88	0.54
1:A:886:TRP:CD2	1:A:964:ARG:HG3	2.43	0.54
1:A:1082:PHE:HA	1:A:1085:ILE:HD12	1.90	0.54
1:A:2525:TRP:HB3	1:A:2561:PHE:CZ	2.36	0.54
1:A:3507:ASP:OD2	1:A:3539:SER:OG	2.24	0.54
1:A:3793:VAL:HB	1:A:3802:LEU:O	2.08	0.54
1:A:3863:ASN:HB3	1:A:3866:GLU:HB3	1.90	0.54
1:F:2126:MET:HA	1:F:2129:LEU:HB2	1.89	0.54
1:F:3274:VAL:O	1:F:3277:VAL:N	2.41	0.54
1:F:3496:ILE:HD13	1:F:3707:GLY:HA2	1.89	0.54
1:F:3818:ASN:HA	1:F:3825:LYS:HZ1	1.72	0.54
2:G:50:GLU:O	2:G:59:PRO:HD2	2.08	0.54
2:G:193:LEU:O	2:G:197:GLY:N	2.38	0.54
1:A:147:PHE:CE2	1:A:148:LYS:HD3	2.43	0.54
1:A:318:SER:O	1:A:322:GLN:HG2	2.08	0.54
1:A:1638:PRO:HB2	1:A:1640:GLU:OE1	2.07	0.54
1:A:2206:PRO:HA	1:A:2209:GLU:HB3	1.89	0.54
1:A:2920:VAL:HA	1:A:2923:TRP:HD1	1.73	0.54
1:A:3963:LEU:HD12	1:A:3967:PHE:HD2	1.72	0.54
1:A:3989:ARG:HH11	1:A:3989:ARG:HG3	1.72	0.54
2:B:255:ALA:HB3	2:B:274:TYR:CD2	2.42	0.54
3:C:250:ARG:NE	3:C:252:THR:OG1	2.41	0.54
1:F:1685:ASP:OD1	1:F:1688:LEU:N	2.37	0.54
1:F:3588:TRP:HB2	1:F:3612:ARG:NH1	2.23	0.54
1:F:3863:ASN:HD21	1:F:3866:GLU:HB2	1.73	0.54
2:G:75:ILE:HG12	2:G:111:PRO:HB3	1.89	0.54
2:G:515:ASN:O	2:G:519:GLY:N	2.41	0.54
3:H:666:VAL:HG22	3:H:675:TRP:CE3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:GLU:O	1:A:80:GLU:HG3	2.07	0.54
1:A:1696:LEU:HD13	1:A:1699:PHE:HB2	1.90	0.54
1:A:3037:GLN:OE1	1:A:3037:GLN:N	2.40	0.54
1:A:3123:GLN:HA	1:A:3126:LEU:HB3	1.90	0.54
1:A:3367:SER:OG	1:A:3369:ASP:OD1	2.21	0.54
1:F:42:CYS:O	1:F:46:SER:N	2.41	0.54
1:F:580:ASP:OD1	1:F:581:LEU:N	2.41	0.54
1:F:785:MET:HB3	1:F:789:TYR:CE1	2.43	0.54
1:F:1412:LYS:HA	1:F:1415:LEU:HD12	1.89	0.54
1:F:1418:HIS:ND1	1:F:1421:GLU:OE2	2.41	0.54
1:F:2257:PHE:HA	1:F:2260:PHE:HE2	1.71	0.54
1:F:2452:ARG:NH1	1:F:2497:GLU:OE2	2.41	0.54
2:G:273:ILE:CG2	2:G:368:VAL:HG22	2.38	0.54
1:A:389:ILE:HD13	1:A:431:TYR:CD2	2.43	0.54
1:A:977:ASP:HB3	1:A:980:THR:HG22	1.89	0.54
1:A:1394:HIS:CE1	1:A:1398:VAL:HB	2.42	0.54
1:A:2169:LEU:HD21	1:A:2208:ASP:HA	1.90	0.54
1:A:2245:TRP:O	1:A:2246:LYS:HG3	2.08	0.54
1:A:2481:HIS:CE1	1:A:2485:ARG:HD3	2.43	0.54
1:A:2908:LYS:HZ1	1:A:2916:LEU:HB2	1.73	0.54
1:A:3772:ASN:ND2	1:A:3788:LEU:HB3	2.22	0.54
1:A:3886:ALA:HB1	1:A:3890:MET:HE1	1.90	0.54
1:A:4012:ASP:HB3	1:A:4014:LYS:HG2	1.89	0.54
2:B:470:ARG:NH2	3:C:347:LYS:HG2	2.22	0.54
3:C:675:TRP:HA	3:C:678:VAL:HB	1.90	0.54
1:F:1757:MET:SD	1:F:1757:MET:N	2.81	0.54
1:F:3253:SER:HA	1:F:3256:MET:HB2	1.89	0.54
1:F:3606:ILE:O	1:F:3609:MET:HG3	2.08	0.54
4:J:21:DA:H2''	4:J:22:DG:OP2	2.08	0.54
4:J:25:DT:H2''	4:J:26:DT:H5''	1.89	0.54
1:A:783:HIS:HA	1:A:786:GLN:HG2	1.90	0.53
1:A:854:ARG:HA	1:A:857:GLN:OE1	2.08	0.53
1:A:1512:SER:O	1:A:1515:LEU:HG	2.09	0.53
1:A:2455:LEU:HA	1:A:2458:VAL:HB	1.90	0.53
1:A:2851:PHE:CD2	1:A:2854:PHE:HB2	2.42	0.53
1:A:3029:LYS:HZ3	1:A:3031:TRP:HD1	1.56	0.53
1:A:3099:ALA:O	1:A:3102:TYR:HB2	2.07	0.53
1:A:3472:ILE:HA	1:A:3479:THR:CB	2.39	0.53
2:B:261:LEU:HD23	2:B:271:VAL:HG21	1.89	0.53
1:F:852:ARG:O	1:F:856:VAL:HG23	2.09	0.53
1:F:925:GLN:HB2	1:F:2800:ARG:NH2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1118:GLU:HG3	1:F:1121:LEU:H	1.72	0.53
1:F:1369:MET:HG3	1:F:1418:HIS:CE1	2.43	0.53
1:F:2578:GLU:OE1	1:F:2578:GLU:N	2.41	0.53
1:F:3090:TYR:HB2	1:F:3099:ALA:HB2	1.90	0.53
3:H:39:THR:HA	3:H:42:VAL:HG12	1.91	0.53
3:H:133:GLU:HB3	3:H:135:PHE:HE1	1.73	0.53
3:H:659:LEU:HB3	3:H:688:LYS:HZ3	1.71	0.53
6:D:23:DT:H2'	6:D:24:DT:H71	1.90	0.53
1:A:162:LEU:HD12	2:B:299:LYS:HD2	1.88	0.53
1:A:197:PHE:CE1	1:A:231:LEU:HD22	2.41	0.53
1:A:289:ASN:OD1	1:A:293:LEU:HG	2.08	0.53
1:A:299:LYS:HA	1:A:299:LYS:HE2	1.89	0.53
1:A:524:TYR:O	1:A:629:PHE:HE1	1.90	0.53
1:A:1108:MET:HG3	1:A:1111:LEU:HD12	1.89	0.53
1:A:1854:ARG:NH1	1:A:1863:PHE:HB2	2.23	0.53
1:A:2925:GLU:O	1:A:2928:LYS:HG3	2.09	0.53
1:A:3059:GLN:HB3	1:A:3063:THR:HG23	1.90	0.53
1:A:3629:ARG:HD2	1:A:3632:PHE:CD2	2.41	0.53
1:A:3707:GLY:C	1:A:3708:ARG:HD3	2.33	0.53
1:A:3825:LYS:HD2	1:A:3830:SER:N	2.24	0.53
1:A:3992:ARG:NH2	1:A:4052:ALA:O	2.41	0.53
2:B:384:ALA:HB1	3:C:451:LEU:HD23	1.91	0.53
1:F:538:ASP:OD1	1:F:538:ASP:N	2.41	0.53
1:F:889:GLU:OE1	1:F:891:ARG:HG2	2.08	0.53
1:F:1017:ILE:O	1:F:1026:ARG:HD3	2.07	0.53
1:F:1025:LEU:HA	1:F:1028:PHE:HB3	1.90	0.53
1:F:1740:VAL:HA	1:F:1743:MET:HE3	1.91	0.53
1:F:1894:SER:HG	1:F:1909:ASN:HD22	1.56	0.53
1:F:2464:HIS:CD2	1:F:2466:SER:HB3	2.41	0.53
1:F:2981:TRP:HB3	1:F:2983:ASP:OD1	2.07	0.53
2:G:237:SER:OG	2:G:238:LYS:N	2.42	0.53
2:G:299:LYS:HG3	3:H:294:VAL:H	1.73	0.53
2:G:365:SER:HB2	2:G:435:VAL:HA	1.90	0.53
1:A:146:GLU:HB2	1:A:183:GLU:HB2	1.89	0.53
1:A:793:LEU:HD22	1:A:869:ASN:HD22	1.73	0.53
1:A:1335:CYS:SG	1:A:1382:ILE:HG13	2.48	0.53
1:A:1417:THR:HG22	1:A:1421:GLU:OE2	2.08	0.53
1:A:2521:ILE:O	1:A:2525:TRP:HB2	2.09	0.53
1:A:3113:ASN:O	1:A:3117:ILE:HG12	2.09	0.53
1:A:3180:ASP:OD1	1:A:3181:ASP:N	2.41	0.53
2:B:260:LYS:HD2	2:B:270:SER:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:332:GLU:O	2:B:335:GLU:HG2	2.08	0.53
3:C:454:VAL:HG12	3:C:458:ILE:HD11	1.90	0.53
3:C:651:GLU:HA	3:C:653:GLN:HE22	1.73	0.53
3:C:671:LEU:HB2	3:C:674:PHE:HE1	1.73	0.53
1:F:321:LYS:O	1:F:324:SER:OG	2.23	0.53
1:F:2268:LYS:HE3	1:F:2311:ARG:HH22	1.74	0.53
1:F:2287:PRO:HD3	1:F:2329:TYR:HD2	1.73	0.53
1:F:2499:PHE:O	1:F:2503:LYS:NZ	2.41	0.53
1:F:2521:ILE:HG13	1:F:2525:TRP:NE1	2.24	0.53
1:F:2524:PHE:O	1:F:2530:ARG:HD2	2.08	0.53
1:F:4085:LYS:NZ	1:F:4092:GLN:OE1	2.37	0.53
1:A:165:LYS:NZ	1:A:167:PRO:O	2.38	0.53
1:A:602:MET:HE1	1:A:1087:ARG:HH22	1.74	0.53
1:A:790:LYS:HA	1:A:869:ASN:HB3	1.90	0.53
1:A:1107:TYR:OH	1:A:1127:CYS:O	2.21	0.53
1:A:1876:ILE:HG13	1:A:1877:LEU:N	2.24	0.53
1:A:1935:GLU:O	1:A:1939:LEU:HD23	2.09	0.53
1:A:3227:ILE:O	1:A:3231:ILE:HG13	2.09	0.53
1:A:4061:CYS:SG	1:A:4078:VAL:HG23	2.48	0.53
3:C:12:LEU:N	3:C:55:ALA:O	2.30	0.53
3:C:675:TRP:O	3:C:679:VAL:HG22	2.09	0.53
3:C:686:ILE:HG13	3:C:688:LYS:HE3	1.89	0.53
1:F:629:PHE:CZ	1:F:633:ILE:HG13	2.43	0.53
1:F:977:ASP:O	1:F:981:ARG:HG2	2.09	0.53
1:F:1082:PHE:HA	1:F:1085:ILE:HG12	1.89	0.53
1:F:1336:THR:O	1:F:1340:ARG:HG2	2.08	0.53
1:F:2577:PHE:HB2	1:F:2783:ILE:HG13	1.91	0.53
1:F:3580:ASN:HA	1:F:3628:PHE:HZ	1.72	0.53
2:G:304:ASN:HD21	2:G:309:GLY:N	2.06	0.53
3:H:246:HIS:HB2	3:H:262:ALA:HB1	1.90	0.53
6:D:18:DA:C5	7:E:39:DA:N1	2.77	0.53
1:A:86:LEU:HA	1:A:89:LEU:HB2	1.89	0.53
1:A:99:LYS:HD3	1:A:143:LEU:HG	1.90	0.53
1:A:979:VAL:HG13	1:A:2591:ILE:HG21	1.91	0.53
1:A:1580:LEU:HD13	1:A:1625:HIS:CE1	2.44	0.53
1:A:1765:VAL:O	1:A:1768:ARG:HG2	2.08	0.53
1:A:2381:ALA:O	1:A:2385:LEU:HD23	2.08	0.53
1:A:2394:LYS:HA	1:A:2397:CYS:HB2	1.90	0.53
1:A:3100:LYS:O	1:A:3104:GLN:NE2	2.39	0.53
1:A:3348:LEU:HD22	1:A:3351:ILE:HD11	1.90	0.53
1:A:3639:GLU:HG2	1:A:3642:LYS:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:297:LYS:HG2	3:C:296:CYS:H	1.74	0.53
3:C:253:ILE:HB	3:C:257:LEU:HD11	1.89	0.53
3:C:681:ASP:O	3:C:685:LEU:HG	2.08	0.53
1:F:641:PHE:O	1:F:644:PRO:HD2	2.09	0.53
1:F:847:SER:N	1:F:850:GLU:OE2	2.38	0.53
1:F:892:LEU:O	1:F:907:LEU:N	2.41	0.53
1:F:1626:TRP:HE1	1:F:1627:LYS:HZ3	1.57	0.53
1:F:1769:GLU:H	1:F:1772:HIS:HE1	1.56	0.53
1:F:2092:GLU:OE1	1:F:2092:GLU:N	2.29	0.53
1:F:2387:PRO:HG2	2:G:155:SER:O	2.07	0.53
1:F:2884:LEU:HA	1:F:2886:GLN:NE2	2.22	0.53
1:A:149:ILE:HD12	1:A:152:LEU:HB2	1.90	0.53
1:A:270:ALA:HA	1:A:273:ARG:NE	2.24	0.53
1:A:773:LEU:HA	1:A:776:TRP:HE3	1.74	0.53
1:A:865:GLN:OE1	1:A:3169:PRO:HA	2.08	0.53
1:A:3971:MET:HE3	1:A:3976:GLU:HG3	1.89	0.53
1:A:4046:TYR:HB3	1:A:4050:LYS:HZ3	1.74	0.53
2:B:187:ARG:HG2	2:B:221:ILE:HD11	1.90	0.53
1:F:180:LEU:O	1:F:185:HIS:NE2	2.41	0.53
1:F:640:GLU:OE1	1:F:640:GLU:N	2.40	0.53
1:F:1671:VAL:HA	1:F:1674:THR:HB	1.91	0.53
1:F:1708:GLU:OE1	1:F:1708:GLU:N	2.32	0.53
1:F:2873:PRO:HG2	1:F:2921:LEU:HG	1.89	0.53
1:F:3141:PHE:HA	1:F:3144:PHE:HB3	1.89	0.53
1:F:4038:TRP:CD1	1:F:4040:PRO:HD3	2.44	0.53
1:A:1215:GLU:C	1:A:1219:PHE:HB2	2.34	0.53
1:A:1505:LEU:O	1:A:1509:GLN:HG3	2.09	0.53
1:A:2425:ARG:NH2	1:A:2426:HIS:HA	2.24	0.53
1:A:2836:LEU:HB3	1:A:2840:PHE:HE2	1.72	0.53
1:A:3275:SER:HA	1:A:3278:GLN:NE2	2.24	0.53
1:A:3795:PRO:HA	1:A:3801:GLY:HA2	1.90	0.53
1:A:3841:ASP:HA	1:A:3844:THR:HB	1.90	0.53
3:C:131:HIS:CD2	3:C:239:LYS:HG2	2.43	0.53
1:F:188:GLU:HA	1:F:191:ASN:HD21	1.72	0.53
1:F:307:GLU:HA	1:F:310:LYS:HZ3	1.74	0.53
1:F:337:LYS:HA	1:F:340:TYR:HB2	1.91	0.53
1:F:886:TRP:HA	1:F:964:ARG:CZ	2.39	0.53
1:F:1474:ASP:OD1	1:F:1474:ASP:N	2.42	0.53
1:F:2231:PHE:O	1:F:2235:LEU:HG	2.09	0.53
1:F:2379:MET:HG3	1:F:2383:PHE:HE2	1.72	0.53
1:F:3493:TRP:O	1:F:3525:TYR:OH	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3835:PRO:HA	1:F:3839:TYR:HB2	1.90	0.53
1:A:95:LYS:HE2	1:A:98:GLN:HG2	1.90	0.53
1:A:99:LYS:C	1:A:101:ALA:H	2.16	0.53
1:A:639:ALA:HB1	1:A:642:PHE:HB3	1.91	0.53
1:A:2371:PHE:CD2	1:A:2374:LEU:HB2	2.42	0.53
1:A:2939:LEU:O	1:A:2942:ILE:HG22	2.09	0.53
1:A:3003:ASN:OD1	1:A:3046:ARG:NH1	2.41	0.53
1:A:3274:VAL:O	1:A:3278:GLN:HG2	2.09	0.53
3:C:115:MET:HE1	3:C:150:ILE:HG22	1.91	0.53
1:F:391:ARG:HA	1:F:394:GLN:HE21	1.73	0.53
1:F:989:MET:SD	1:F:990:GLN:N	2.82	0.53
1:F:1271:ILE:HD11	1:F:1352:SER:HB2	1.89	0.53
1:F:2232:ARG:O	1:F:2235:LEU:N	2.41	0.53
1:F:2380:ASN:HA	1:F:2383:PHE:HD2	1.73	0.53
1:F:2799:GLN:HE22	1:F:2800:ARG:HD3	1.73	0.53
1:F:2863:CYS:HA	1:F:2869:LEU:HD11	1.89	0.53
1:F:2873:PRO:HB3	1:F:2893:LEU:HD11	1.91	0.53
1:F:3120:LEU:HA	1:F:3122:HIS:NE2	2.24	0.53
1:F:3389:VAL:HG13	1:F:3413:TYR:CE1	2.44	0.53
1:F:3740:ILE:O	1:F:3748:HIS:N	2.42	0.53
1:A:70:ARG:NH1	1:A:71:LYS:O	2.41	0.53
1:A:86:LEU:O	1:A:90:CYS:N	2.41	0.53
1:A:111:CYS:CB	1:A:130:LEU:HD22	2.38	0.53
1:A:1214:GLU:OE1	1:A:1214:GLU:N	2.40	0.53
1:A:1291:LEU:HA	1:A:1294:VAL:HG22	1.91	0.53
2:B:273:ILE:CG2	2:B:366:LEU:HG	2.39	0.53
1:F:483:VAL:O	1:F:487:LEU:HG	2.09	0.53
1:F:1781:SER:HA	1:F:1784:ARG:NH1	2.23	0.53
1:F:2233:HIS:HD1	1:F:2237:ILE:HD11	1.73	0.53
1:F:3660:ASN:O	1:F:3663:THR:OG1	2.23	0.53
1:F:3931:ALA:HB3	1:F:3934:THR:HG22	1.91	0.53
3:H:725:VAL:O	3:H:729:LEU:HG	2.09	0.53
1:A:449:TYR:CD2	1:A:453:MET:CE	2.63	0.53
1:A:865:GLN:HB3	1:A:3169:PRO:HA	1.90	0.53
1:A:2296:SER:O	1:A:2300:PHE:HE1	1.91	0.53
1:A:3135:LEU:HA	1:A:3138:ILE:HD12	1.91	0.53
1:A:3421:ASP:O	1:A:3425:ARG:HG2	2.09	0.53
1:A:4100:GLU:CD	1:A:4100:GLU:H	2.17	0.53
2:B:75:ILE:HD13	2:B:116:ILE:HD11	1.91	0.53
2:B:121:GLN:NE2	2:B:130:ARG:HD2	2.24	0.53
2:B:461:LYS:HB3	2:B:527:GLU:CD	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:426:PHE:HB3	3:C:428:GLU:HG2	1.91	0.53
1:F:23:ASP:HA	1:F:34:LEU:CD1	2.38	0.53
1:F:655:LEU:HG	1:F:659:ARG:HE	1.74	0.53
1:F:3601:VAL:HG13	1:F:3604:LYS:HG3	1.90	0.53
2:G:38:LEU:HA	2:G:165:ARG:O	2.09	0.53
3:H:14:MET:SD	3:H:58:LEU:HD13	2.49	0.53
3:H:232:ARG:C	3:H:233:LYS:HD2	2.33	0.53
3:H:267:ILE:HB	3:H:361:VAL:HB	1.90	0.53
1:A:67:VAL:HG23	1:A:70:ARG:NH2	2.25	0.52
1:A:1065:SER:HA	1:A:1068:LEU:HD21	1.89	0.52
1:A:1747:LEU:HA	1:A:1750:LEU:HD12	1.90	0.52
1:A:2237:ILE:O	1:A:2241:LEU:HG	2.09	0.52
1:A:2313:LYS:HA	1:A:2316:TYR:CE2	2.44	0.52
1:A:3096:VAL:HG22	1:A:3100:LYS:HG3	1.89	0.52
1:A:3596:LEU:HD23	1:A:3596:LEU:H	1.73	0.52
1:F:629:PHE:CE2	1:F:633:ILE:HG13	2.44	0.52
1:F:1813:SER:HB2	1:F:1936:ARG:HH12	1.72	0.52
1:F:2428:ASP:O	1:F:2432:GLN:HG2	2.08	0.52
1:F:2524:PHE:O	1:F:2530:ARG:NH1	2.41	0.52
1:F:3144:PHE:CE1	1:F:3150:ASN:HB3	2.44	0.52
1:F:3748:HIS:HB3	1:F:3750:PHE:CE2	2.44	0.52
1:F:3925:LEU:HD12	1:F:3962:ARG:NH2	2.25	0.52
2:G:420:LEU:HA	2:G:426:GLN:HA	1.89	0.52
1:A:245:SER:HA	1:A:248:ILE:HD12	1.91	0.52
1:A:540:MET:O	1:A:544:ILE:HG12	2.09	0.52
1:A:1154:PRO:HG2	1:A:1157:PHE:CD2	2.43	0.52
1:A:1651:LYS:O	1:A:1655:ILE:HG23	2.09	0.52
1:A:2215:LEU:O	1:A:2219:LEU:HG	2.10	0.52
1:A:2232:ARG:O	1:A:2236:GLU:HG2	2.09	0.52
1:A:2271:SER:HA	1:A:2274:ILE:HD12	1.90	0.52
1:A:2991:LYS:HA	1:A:2994:TRP:CE3	2.44	0.52
1:A:3357:ARG:HB3	1:A:3358:ARG:HH11	1.74	0.52
1:A:3551:ASN:O	1:A:3555:VAL:HG23	2.09	0.52
1:A:3643:HIS:CD2	1:A:3666:LEU:HG	2.43	0.52
2:B:362:LEU:HB2	2:B:436:PHE:HB2	1.90	0.52
1:F:225:LYS:HD3	1:F:271:GLY:N	2.24	0.52
1:F:1225:GLU:CD	1:F:1234:GLY:HA3	2.34	0.52
1:F:1302:ALA:HB2	1:F:1382:ILE:HG22	1.90	0.52
1:F:1765:VAL:HA	1:F:1768:ARG:NE	2.23	0.52
1:F:2102:LYS:HB3	1:F:2106:ARG:CZ	2.39	0.52
2:G:164:LYS:HE3	2:G:196:THR:HG22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:459:VAL:O	2:G:463:LYS:HG2	2.09	0.52
3:H:270:GLU:O	3:H:486:ARG:NH2	2.42	0.52
1:A:580:ASP:OD2	1:A:616:LYS:NZ	2.42	0.52
1:A:1186:LYS:N	1:A:1186:LYS:HD3	2.25	0.52
1:A:1564:SER:HA	1:A:1567:ILE:HD13	1.91	0.52
1:A:1847:ALA:O	1:A:1851:LEU:HG	2.09	0.52
1:A:3019:ILE:HG21	1:A:3031:TRP:HZ3	1.74	0.52
1:A:3232:ARG:HA	1:A:3235:LYS:NZ	2.24	0.52
2:B:45:SER:H	2:B:48:MET:HE1	1.74	0.52
3:C:264:TYR:O	3:C:363:LYS:N	2.33	0.52
1:F:535:LEU:HD13	1:F:564:LEU:HD12	1.90	0.52
1:F:1240:THR:HA	1:F:1296:PHE:CE2	2.44	0.52
1:F:1389:VAL:HG23	1:F:1390:GLN:H	1.75	0.52
1:F:1667:SER:OG	1:F:1670:GLU:OE1	2.24	0.52
1:F:2284:ASP:OD1	1:F:2329:TYR:OH	2.28	0.52
1:F:2311:ARG:NH1	1:F:2312:TYR:HB2	2.25	0.52
1:F:2383:PHE:HD1	1:F:2418:LYS:HE3	1.74	0.52
1:F:3786:LEU:HD21	1:F:3910:LEU:HD22	1.92	0.52
2:G:440:ALA:HB2	3:H:481:LYS:O	2.08	0.52
7:E:22:DA:C6	7:E:23:DT:C4	2.97	0.52
1:A:247:GLU:O	1:A:251:PHE:N	2.33	0.52
1:A:363:ILE:HD12	1:A:413:PHE:HA	1.91	0.52
1:A:1087:ARG:HG2	1:A:1090:ARG:HH21	1.74	0.52
1:A:1818:SER:HA	1:A:1821:ASP:HB2	1.91	0.52
1:A:3963:LEU:HD12	1:A:3967:PHE:CD2	2.45	0.52
2:B:410:PHE:HB3	2:B:437:LEU:HD21	1.92	0.52
3:C:405:VAL:H	3:C:423:GLN:NE2	2.08	0.52
3:C:573:GLY:C	3:C:575:HIS:H	2.16	0.52
1:F:583:LEU:HB2	1:F:613:HIS:O	2.09	0.52
1:F:1095:LEU:HA	1:F:1099:PHE:HD2	1.75	0.52
1:F:1172:LEU:HD21	1:F:1187:SER:HA	1.92	0.52
1:F:2459:VAL:HA	1:F:2473:MET:SD	2.49	0.52
1:F:3039:THR:O	1:F:3042:PRO:HD2	2.10	0.52
1:F:3192:LYS:HA	1:F:3195:GLU:OE2	2.10	0.52
1:F:3298:LEU:HD23	1:F:3302:LYS:HG2	1.89	0.52
1:F:3638:LYS:HE2	1:F:3642:LYS:HD3	1.90	0.52
1:F:4049:ARG:HH12	1:F:4058:VAL:HG12	1.73	0.52
2:G:416:GLN:CD	3:H:354:ARG:HH22	2.17	0.52
3:H:315:ARG:HA	3:H:320:ILE:HG13	1.92	0.52
3:H:526:SER:O	3:H:529:PRO:HD2	2.10	0.52
5:I:40:DT:H2"	5:I:41:DT:C5	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:ARG:H	1:A:82:ARG:CD	2.21	0.52
1:A:195:ASN:HA	1:A:198:ARG:HG3	1.92	0.52
1:A:667:TYR:HA	1:A:670:LEU:HD12	1.90	0.52
1:A:958:MET:HE3	1:A:960:GLN:HB2	1.92	0.52
1:A:1069:HIS:CG	1:A:1070:PRO:HD2	2.44	0.52
1:A:1102:GLU:HG3	1:A:1154:PRO:HD3	1.92	0.52
1:A:1327:GLY:O	1:A:1330:TYR:HB3	2.09	0.52
1:A:3031:TRP:C	1:A:3034:PRO:HD2	2.35	0.52
1:A:3699:LEU:HD23	1:A:3719:ILE:HD13	1.90	0.52
2:B:77:SER:HA	2:B:249:LYS:O	2.08	0.52
3:C:418:CYS:SG	3:C:419:LEU:N	2.82	0.52
1:F:43:VAL:HG11	1:F:829:VAL:HA	1.90	0.52
1:F:1871:MET:HE1	1:F:1940:TYR:HB2	1.92	0.52
1:F:2275:GLN:O	1:F:2279:ILE:HG12	2.09	0.52
1:F:2890:ILE:HD13	1:F:2930:TYR:CE1	2.44	0.52
2:G:273:ILE:HG23	2:G:368:VAL:HG22	1.90	0.52
1:A:61:ARG:HH11	1:A:62:ASP:CG	2.18	0.52
1:A:132:ILE:HG23	1:A:136:GLN:HE22	1.75	0.52
1:A:243:GLN:HG3	1:A:246:ARG:HH21	1.75	0.52
1:A:785:MET:HB3	1:A:789:TYR:CE1	2.44	0.52
1:A:1618:LEU:O	1:A:1622:ILE:HD12	2.09	0.52
1:A:2443:MET:HE3	1:A:2476:ILE:HG23	1.90	0.52
2:B:122:PHE:O	2:B:127:GLY:HA3	2.09	0.52
2:B:400:TYR:N	2:B:409:TYR:O	2.43	0.52
3:C:104:GLN:HB2	3:C:141:ARG:NH1	2.25	0.52
1:F:115:TYR:CD2	1:F:118:ASP:HA	2.44	0.52
1:F:717:LYS:HA	1:F:720:GLN:HE22	1.74	0.52
1:F:982:GLN:NE2	1:F:2592:ASP:OD1	2.43	0.52
1:F:1131:ILE:HA	1:F:1134:LEU:HB2	1.92	0.52
1:F:1324:PRO:HA	1:F:1328:GLU:HB3	1.92	0.52
1:F:1611:GLN:HG3	1:F:1613:HIS:HB2	1.92	0.52
1:F:1810:PRO:O	1:F:1811:ARG:NH1	2.43	0.52
1:F:2801:ASP:OD2	1:F:2804:ILE:N	2.24	0.52
1:F:4113:ASP:OD1	1:F:4113:ASP:N	2.42	0.52
1:F:6007:UNK:O	1:F:6011:UNK:N	2.42	0.52
2:G:288:LEU:O	3:H:311:ILE:N	2.33	0.52
3:H:33:GLN:HA	3:H:36:LYS:HD3	1.91	0.52
3:H:251:LEU:HD11	3:H:259:ILE:HD12	1.92	0.52
3:H:667:GLU:HA	3:H:675:TRP:CH2	2.45	0.52
3:H:712:SER:OG	3:H:713:GLY:N	2.43	0.52
1:A:10:CYS:HA	1:A:13:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:GLN:OE1	1:A:54:GLN:N	2.31	0.52
1:A:208:MET:HE3	3:C:551:GLN:HB2	1.91	0.52
1:A:229:SER:HA	1:A:278:HIS:CE1	2.44	0.52
1:A:1331:ASN:HA	1:A:1334:LYS:HD3	1.91	0.52
1:A:1904:CYS:SG	1:A:1911:LEU:HD21	2.50	0.52
1:A:2339:GLU:O	1:A:2342:CYS:N	2.42	0.52
1:A:2394:LYS:HD3	1:A:2394:LYS:N	2.24	0.52
1:A:2554:PHE:HB3	1:A:2854:PHE:CE1	2.45	0.52
1:A:3629:ARG:HA	1:A:3632:PHE:CD2	2.44	0.52
2:B:82:LEU:HD21	2:B:108:LEU:HB3	1.91	0.52
3:C:327:ASP:OD1	3:C:328:GLU:N	2.39	0.52
1:F:105:VAL:HA	1:F:108:LYS:NZ	2.25	0.52
1:F:1089:PHE:CE2	1:F:1096:VAL:HG12	2.44	0.52
1:F:1404:LYS:CA	1:F:1407:LYS:HZ3	2.22	0.52
1:F:1458:LEU:O	1:F:1462:GLY:N	2.26	0.52
1:F:1757:MET:HA	1:F:1760:GLU:HG3	1.91	0.52
1:F:1783:ARG:O	1:F:1830:HIS:NE2	2.43	0.52
1:F:2467:THR:HG22	1:F:2470:ARG:HH21	1.73	0.52
1:F:3486:GLU:C	1:F:3488:SER:H	2.17	0.52
2:G:115:ARG:O	2:G:119:LEU:HG	2.09	0.52
3:H:346:CYS:SG	3:H:347:LYS:N	2.79	0.52
1:A:741:ILE:HD13	1:A:776:TRP:HZ2	1.75	0.52
1:A:887:ASP:CG	1:A:3889:ARG:HH21	2.17	0.52
1:A:3586:LYS:HD2	1:A:3667:LEU:HD22	1.92	0.52
1:A:3921:GLY:H	1:A:3944:HIS:CD2	2.27	0.52
3:C:135:PHE:HE1	3:C:164:PHE:HD2	1.57	0.52
3:C:359:ASN:OD1	3:C:360:GLN:N	2.43	0.52
3:C:626:THR:HA	3:C:632:PHE:HD2	1.74	0.52
1:F:753:GLN:H	1:F:753:GLN:CD	2.17	0.52
1:F:2359:LYS:HD3	1:F:2363:CYS:SG	2.50	0.52
1:F:2893:LEU:HD12	1:F:2922:ARG:HB2	1.91	0.52
1:F:3059:GLN:HA	1:F:3062:LEU:HD13	1.92	0.52
1:F:3232:ARG:NH2	1:F:3268:THR:OG1	2.37	0.52
1:F:3423:GLN:HA	1:F:3426:LYS:HE2	1.92	0.52
1:F:3555:VAL:HG12	1:F:3559:LYS:NZ	2.25	0.52
1:F:3583:LEU:O	1:F:3586:LYS:HG3	2.10	0.52
3:H:500:HIS:HB3	3:H:503:GLU:HB2	1.91	0.52
1:A:77:GLU:HG3	1:A:78:PHE:HD1	1.74	0.52
1:A:91:ILE:HD11	1:A:831:LEU:CD2	2.39	0.52
1:A:1563:PHE:O	1:A:1566:THR:N	2.43	0.52
1:A:1791:CYS:O	1:A:1795:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2320:ALA:HB1	1:A:2366:LYS:HB2	1.92	0.52
1:A:2411:LEU:H	1:A:2411:LEU:HD12	1.75	0.52
1:A:3357:ARG:NE	1:A:3358:ARG:HH12	2.07	0.52
2:B:164:LYS:HE3	2:B:196:THR:HG22	1.91	0.52
3:C:454:VAL:O	3:C:458:ILE:HG13	2.10	0.52
1:F:46:SER:OG	1:F:827:ASN:ND2	2.43	0.52
1:F:131:LEU:O	1:F:177:LEU:HD11	2.10	0.52
1:F:925:GLN:HB2	1:F:2800:ARG:HH12	1.75	0.52
1:F:2228:ARG:HG2	1:F:2232:ARG:NH2	2.25	0.52
1:F:2252:PRO:O	1:F:2294:ILE:HD11	2.09	0.52
1:F:2420:PHE:CZ	1:F:2435:CYS:HB3	2.44	0.52
1:F:2459:VAL:HG21	1:F:2505:VAL:HG11	1.92	0.52
1:F:2801:ASP:OD2	1:F:2804:ILE:HG12	2.10	0.52
1:F:2813:PHE:CD2	1:F:2861:ILE:HG23	2.44	0.52
3:H:8:ALA:HB1	3:H:240:ILE:HD12	1.92	0.52
3:H:36:LYS:NZ	3:H:231:LEU:HD21	2.25	0.52
3:H:347:LYS:HG3	3:H:349:SER:H	1.75	0.52
1:A:344:GLN:HG2	1:A:345:PHE:N	2.24	0.52
1:A:461:ILE:HA	1:A:464:VAL:HG12	1.92	0.52
1:A:493:LYS:HZ2	1:A:522:PRO:HD3	1.75	0.52
1:A:907:LEU:HD23	1:A:907:LEU:H	1.75	0.52
1:A:932:GLU:OE2	1:A:2773:ARG:HD3	2.10	0.52
1:A:1195:VAL:HG22	1:A:1207:TRP:CZ3	2.45	0.52
1:A:1780:SER:O	1:A:1784:ARG:HG2	2.10	0.52
1:A:1821:ASP:HA	1:A:1825:LEU:HD12	1.91	0.52
1:A:1824:LEU:HD23	1:A:1827:LEU:HD12	1.91	0.52
2:B:414:VAL:HG12	2:B:433:GLN:HB3	1.91	0.52
1:F:131:LEU:HB2	1:F:177:LEU:HD21	1.92	0.52
1:F:275:PHE:HD2	1:F:315:ALA:HB1	1.74	0.52
1:F:683:PHE:CE1	1:F:700:LYS:HB3	2.45	0.52
1:F:1175:HIS:CG	1:F:1229:CYS:HA	2.45	0.52
1:F:1270:PHE:HB3	1:F:1281:VAL:HG21	1.91	0.52
1:F:1407:LYS:HD3	1:F:1463:LEU:HD11	1.91	0.52
1:F:2201:THR:HG22	1:F:2245:TRP:CD1	2.45	0.52
1:F:2964:ASP:OD1	1:F:2965:TYR:N	2.42	0.52
1:F:3477:GLU:HG2	1:F:3477:GLU:O	2.09	0.52
1:A:335:LYS:O	1:A:339:GLN:HG3	2.09	0.51
1:A:1105:VAL:HG11	1:A:1156:GLY:HA3	1.91	0.51
1:A:1180:GLN:O	1:A:1184:ARG:N	2.37	0.51
1:A:1268:ASN:OD1	1:A:1347:THR:HG21	2.10	0.51
1:A:2464:HIS:O	1:A:2466:SER:N	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2482:ASP:HA	1:A:2485:ARG:HG2	1.92	0.51
1:A:3617:LEU:HD22	1:A:3636:PHE:HB3	1.92	0.51
1:A:3980:MET:N	1:A:3980:MET:SD	2.83	0.51
2:B:462:MET:HE1	3:C:380:LEU:HA	1.90	0.51
3:C:89:ASP:OD1	3:C:90:LEU:N	2.42	0.51
1:F:358:GLU:HG3	1:F:359:LEU:HD22	1.92	0.51
1:F:900:GLU:O	1:F:902:LYS:HD2	2.10	0.51
1:F:934:LEU:HA	1:F:937:MET:HE3	1.90	0.51
1:F:984:TYR:HA	1:F:987:LEU:HD12	1.91	0.51
1:F:1241:LEU:HD23	1:F:1256:TRP:HZ3	1.76	0.51
1:F:1519:PHE:HZ	1:F:1528:LEU:HG	1.76	0.51
1:F:1803:GLU:N	1:F:1806:ARG:HH21	2.08	0.51
1:F:2228:ARG:O	1:F:2228:ARG:HD3	2.10	0.51
1:F:2251:ILE:HG22	1:F:2253:TYR:H	1.75	0.51
1:F:2950:LYS:HZ2	1:F:2986:PRO:HG3	1.75	0.51
1:F:3000:ASP:O	1:F:3004:HIS:N	2.43	0.51
1:F:3288:SER:H	1:F:3289:ARG:CZ	2.22	0.51
1:F:3303:THR:HG23	1:F:3304:VAL:HG13	1.91	0.51
1:F:3593:ARG:NH2	1:F:3664:ASN:OD1	2.30	0.51
2:G:345:LEU:HD11	2:G:400:TYR:HD1	1.75	0.51
1:A:23:ASP:N	1:A:23:ASP:OD1	2.43	0.51
1:A:410:MET:HB3	1:A:442:GLN:HG3	1.91	0.51
1:A:969:LEU:O	1:A:972:LEU:HG	2.10	0.51
1:A:1081:ALA:O	1:A:1085:ILE:HG13	2.10	0.51
1:A:1231:GLN:O	1:A:1231:GLN:HG2	2.09	0.51
1:A:1584:GLN:HA	1:A:1628:LYS:NZ	2.26	0.51
1:A:1630:ASP:HA	1:A:1633:TRP:NE1	2.20	0.51
1:A:2551:GLU:HB3	1:A:2854:PHE:CD2	2.45	0.51
1:A:3717:VAL:HA	1:A:3743:HIS:HE1	1.74	0.51
3:C:730:ASP:O	1:F:1908:GLY:HA2	2.10	0.51
1:F:274:LEU:O	1:F:278:HIS:N	2.43	0.51
1:F:704:PHE:O	1:F:708:VAL:HG23	2.10	0.51
1:F:2133:LEU:HD13	1:F:2143:ARG:HG2	1.91	0.51
1:F:2412:TYR:HA	1:F:2415:LEU:HD12	1.92	0.51
1:F:2558:ALA:HA	1:F:2561:PHE:CE2	2.45	0.51
1:F:3048:LYS:O	1:F:3052:LEU:HG	2.10	0.51
1:F:3554:PHE:O	1:F:3558:ILE:HG12	2.10	0.51
1:F:3954:PRO:HD3	1:F:4027:TRP:CZ3	2.44	0.51
3:H:146:GLN:NE2	3:H:150:ILE:HG21	2.25	0.51
1:A:727:ALA:HA	1:A:730:LEU:HD12	1.92	0.51
1:A:1328:GLU:HA	1:A:1331:ASN:HD22	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2122:LEU:HA	1:A:2126:MET:HE3	1.91	0.51
1:A:2452:ARG:HH22	1:A:2494:ASP:CG	2.19	0.51
2:B:63:SER:O	2:B:67:ILE:HG12	2.11	0.51
2:B:450:GLU:OE2	3:C:415:ASN:ND2	2.44	0.51
3:C:599:ARG:HH21	3:C:602:VAL:HG21	1.74	0.51
3:C:645:GLU:HA	3:C:648:LYS:HE3	1.92	0.51
1:F:36:ARG:HA	1:F:36:ARG:HE	1.75	0.51
1:F:66:LEU:HG	1:F:70:ARG:HH12	1.74	0.51
1:F:2578:GLU:C	1:F:2784:GLN:HE22	2.17	0.51
1:F:3101:TYR:HA	1:F:3104:GLN:OE1	2.10	0.51
1:F:3158:LYS:O	1:F:3161:LEU:HG	2.10	0.51
1:F:3388:ALA:O	1:F:3392:ALA:N	2.44	0.51
2:G:462:MET:HA	2:G:465:ILE:HG12	1.93	0.51
3:H:324:SER:N	3:H:327:ASP:OD2	2.43	0.51
3:H:360:GLN:HE22	3:H:421:TYR:HD2	1.58	0.51
3:H:363:LYS:HB3	3:H:420:VAL:HG12	1.93	0.51
3:H:701:ALA:O	3:H:705:LEU:N	2.43	0.51
1:A:194:GLU:HA	1:A:197:PHE:CD2	2.45	0.51
1:A:321:LYS:NZ	1:A:322:GLN:OE1	2.33	0.51
1:A:1015:ASP:HA	1:A:1018:VAL:HG12	1.91	0.51
1:A:2256:ILE:H	1:A:2256:ILE:HD12	1.75	0.51
1:A:2429:ASP:O	1:A:2432:GLN:HG2	2.10	0.51
1:A:2480:ILE:HA	1:A:2483:ASN:ND2	2.25	0.51
1:A:2776:ARG:HH21	1:A:2782:ASP:CG	2.18	0.51
2:B:59:PRO:HA	2:B:62:MET:HG3	1.93	0.51
2:B:297:LYS:NZ	3:C:294:VAL:O	2.43	0.51
1:F:574:LYS:O	1:F:578:LYS:HD3	2.11	0.51
1:F:925:GLN:HA	1:F:928:VAL:HG22	1.93	0.51
1:F:1651:LYS:NZ	1:F:1654:GLN:OE1	2.24	0.51
1:F:1804:MET:HB3	1:F:1819:PHE:HE2	1.75	0.51
1:F:1813:SER:HB2	1:F:1868:THR:HG21	1.93	0.51
1:F:3005:LEU:HD22	1:F:3254:LEU:HB3	1.93	0.51
1:F:3174:ASP:OD1	1:F:3178:ILE:HB	2.11	0.51
1:F:3666:LEU:HG	1:F:3670:MET:HE1	1.92	0.51
2:G:115:ARG:NH2	2:G:118:GLU:OE2	2.43	0.51
2:G:274:TYR:HB2	2:G:367:PHE:HD2	1.76	0.51
2:G:274:TYR:N	2:G:367:PHE:O	2.42	0.51
2:G:389:CYS:SG	2:G:415:PRO:HB2	2.50	0.51
1:A:572:VAL:O	1:A:576:VAL:HG23	2.09	0.51
1:A:1708:GLU:H	1:A:1708:GLU:CD	2.14	0.51
1:A:1891:ALA:HA	1:A:1895:LYS:HG2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2181:GLY:HA2	1:A:2222:HIS:ND1	2.26	0.51
1:A:2330:VAL:HG23	1:A:2331:MET:H	1.75	0.51
1:A:2547:SER:H	1:A:2554:PHE:HE2	1.58	0.51
1:A:3946:PHE:O	1:A:3951:GLN:NE2	2.43	0.51
2:B:46:LYS:HA	2:B:137:HIS:NE2	2.25	0.51
3:C:593:ASN:HA	3:C:597:ASN:HB2	1.91	0.51
1:F:187:SER:O	1:F:191:ASN:ND2	2.43	0.51
1:F:777:SER:HA	1:F:785:MET:HE1	1.91	0.51
1:F:969:LEU:O	1:F:973:ALA:N	2.38	0.51
1:F:1071:ASN:HD22	1:F:1074:LYS:HZ2	1.58	0.51
1:F:1288:SER:HB2	1:F:1290:LEU:HD13	1.92	0.51
1:F:2447:LYS:HD3	1:F:2448:PRO:HD2	1.92	0.51
1:F:3086:LEU:HA	1:F:3089:LEU:HD12	1.93	0.51
1:F:3516:HIS:ND1	1:F:3520:GLU:OE2	2.44	0.51
2:G:476:ASP:HA	3:H:427:MET:SD	2.50	0.51
3:H:721:GLU:O	3:H:725:VAL:HG23	2.11	0.51
1:A:544:ILE:O	1:A:548:GLU:HG3	2.11	0.51
1:A:623:PHE:CZ	1:A:627:VAL:HG21	2.45	0.51
1:A:2230:VAL:O	1:A:2233:HIS:HB3	2.11	0.51
1:A:2468:THR:O	1:A:2471:GLU:HG3	2.10	0.51
1:A:2952:ILE:HG12	1:A:2972:TYR:HE1	1.74	0.51
1:A:3378:TYR:O	1:A:3382:PHE:N	2.41	0.51
1:A:3472:ILE:HG13	1:A:3479:THR:CB	2.40	0.51
1:F:570:LYS:HD3	1:F:1505:LEU:HD21	1.92	0.51
1:F:934:LEU:HD23	1:F:937:MET:HE3	1.92	0.51
1:F:1834:ASP:HA	1:F:1837:ARG:NH1	2.26	0.51
1:F:2815:GLY:HA2	1:F:2818:LYS:HD3	1.92	0.51
1:F:3812:LEU:HB3	1:F:3925:LEU:HD23	1.93	0.51
1:F:6010:UNK:O	1:F:6014:UNK:N	2.44	0.51
2:G:106:GLN:HG3	2:G:115:ARG:NH1	2.25	0.51
2:G:302:THR:HG23	2:G:302:THR:O	2.10	0.51
2:G:413:LEU:HD21	2:G:432:PHE:CG	2.45	0.51
1:A:264:ARG:NH2	7:E:40:DT:H5"	2.25	0.51
1:A:408:TYR:CD1	1:A:449:TYR:OH	2.61	0.51
1:A:437:HIS:NE2	1:A:6015:UNK:HA	2.25	0.51
1:A:656:GLN:HG2	1:A:666:PHE:CE2	2.46	0.51
1:A:1142:HIS:CD2	1:A:1197:LEU:HD11	2.45	0.51
1:A:2092:GLU:CD	1:A:2092:GLU:H	2.16	0.51
1:A:2205:VAL:HG22	1:A:2207:LYS:H	1.75	0.51
1:A:2428:ASP:HB3	1:A:2431:ARG:HG2	1.93	0.51
1:A:2519:LEU:O	1:A:2522:ARG:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2559:THR:HA	1:A:2562:LEU:HD13	1.93	0.51
1:A:2851:PHE:HB3	1:A:2854:PHE:HB3	1.91	0.51
1:A:3031:TRP:O	1:A:3034:PRO:HD2	2.11	0.51
1:A:4013:TRP:HZ2	1:A:4036:LYS:HE2	1.76	0.51
2:B:450:GLU:HA	3:C:416:TYR:HE1	1.75	0.51
3:C:74:TYR:HD1	3:C:113:VAL:HG22	1.75	0.51
3:C:185:LEU:HB3	3:C:514:ASN:ND2	2.26	0.51
3:C:280:ASP:OD2	3:C:282:LYS:NZ	2.44	0.51
1:F:305:ASN:O	1:F:308:LEU:N	2.40	0.51
1:F:642:PHE:CE2	1:F:646:VAL:HG12	2.45	0.51
1:F:828:LYS:HG3	1:F:830:VAL:H	1.75	0.51
1:F:1854:ARG:HB3	1:F:1863:PHE:CE1	2.41	0.51
1:F:1887:ASP:OD1	1:F:1887:ASP:N	2.39	0.51
1:F:2588:GLU:CD	1:F:2776:ARG:HH22	2.18	0.51
1:F:3374:ILE:HA	1:F:3377:LEU:HB2	1.92	0.51
1:F:3447:VAL:CG2	1:F:3478:GLU:O	2.41	0.51
1:F:3881:ASP:HA	1:F:3969:ASN:HB3	1.93	0.51
1:F:4040:PRO:HA	1:F:4043:LYS:HD2	1.93	0.51
2:G:273:ILE:CG2	2:G:366:LEU:HG	2.40	0.51
3:H:251:LEU:HD23	3:H:261:ILE:HD13	1.93	0.51
3:H:463:LEU:HD22	3:H:522:VAL:HG11	1.92	0.51
1:A:84:GLU:HA	1:A:87:LYS:HB3	1.91	0.51
1:A:301:CYS:SG	1:A:302:ALA:N	2.83	0.51
1:A:318:SER:O	1:A:321:LYS:HG2	2.11	0.51
1:A:465:PHE:HE1	1:A:482:VAL:HG21	1.76	0.51
1:A:471:LYS:HZ3	1:A:473:PRO:HG2	1.76	0.51
1:A:797:ASP:OD1	1:A:797:ASP:N	2.43	0.51
1:A:3616:ALA:O	1:A:3633:ILE:CG2	2.59	0.51
2:B:116:ILE:H	2:B:116:ILE:HD12	1.76	0.51
3:C:509:GLN:OE1	3:C:512:ILE:HG12	2.10	0.51
1:F:333:MET:SD	3:H:568:LYS:NZ	2.62	0.51
1:F:1145:LEU:HD13	1:F:1151:ARG:HH21	1.75	0.51
1:F:1190:LEU:HB3	1:F:1194:PHE:CZ	2.46	0.51
1:F:1304:HIS:HB3	1:F:1307:ILE:O	2.10	0.51
1:F:1658:SER:O	1:F:1662:ASN:ND2	2.44	0.51
1:F:2197:THR:HG23	1:F:5009:UNK:N	2.26	0.51
1:F:3064:PHE:O	1:F:3067:LYS:HB2	2.10	0.51
2:G:193:LEU:HB2	2:G:198:ILE:HD13	1.93	0.51
1:A:453:MET:HA	1:A:456:VAL:HG22	1.93	0.51
1:A:960:GLN:HA	1:A:963:LYS:HZ2	1.75	0.51
1:A:1017:ILE:HD12	1:A:1077:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2220:MET:C	1:A:2259:LYS:HZ2	2.14	0.51
1:A:2323:LEU:O	1:A:2327:LEU:HG	2.10	0.51
2:B:362:LEU:HD12	2:B:436:PHE:HB3	1.92	0.51
2:B:392:LYS:NZ	3:C:458:ILE:HG21	2.26	0.51
1:F:719:LYS:O	1:F:722:LYS:NZ	2.41	0.51
1:F:960:GLN:HA	1:F:963:LYS:HE2	1.93	0.51
1:F:971:ARG:HH12	1:F:1025:LEU:HD13	1.75	0.51
1:F:1412:LYS:O	1:F:1415:LEU:HB2	2.10	0.51
1:F:1525:CYS:O	1:F:1529:VAL:HG23	2.11	0.51
1:F:2196:TRP:HE1	1:F:2200:ALA:HB3	1.76	0.51
1:F:2430:GLU:N	1:F:2430:GLU:OE1	2.42	0.51
1:F:2435:CYS:O	1:F:2439:ILE:HG12	2.11	0.51
1:F:3361:GLU:HB3	1:F:3366:SER:HA	1.93	0.51
1:F:3759:ARG:HH22	1:F:4015:ASN:HB3	1.75	0.51
1:F:3871:PHE:HA	1:F:3874:ARG:HD3	1.92	0.51
2:G:459:VAL:HG13	3:H:383:ALA:HB2	1.93	0.51
1:A:704:PHE:O	1:A:708:VAL:HG23	2.11	0.51
1:A:1669:PRO:HA	1:A:1672:PHE:HB3	1.93	0.51
1:A:2127:LYS:O	1:A:2127:LYS:NZ	2.43	0.51
1:A:2821:ASP:HA	1:A:2829:LYS:HE2	1.92	0.51
1:A:2936:TYR:HA	1:A:2939:LEU:HD12	1.91	0.51
1:A:3768:PHE:HB3	1:A:3788:LEU:HD23	1.91	0.51
2:B:95:ASN:HB3	2:B:102:ILE:HG22	1.92	0.51
2:B:131:PHE:HA	2:B:134:MET:HG2	1.93	0.51
3:C:250:ARG:HA	3:C:260:ARG:HA	1.93	0.51
3:C:264:TYR:N	3:C:363:LYS:O	2.40	0.51
3:C:365:PHE:HB2	3:C:368:ARG:NH1	2.23	0.51
1:F:73:LEU:HD21	1:F:78:PHE:CD1	2.46	0.51
1:F:242:PRO:HA	1:F:245:SER:HB2	1.93	0.51
1:F:431:TYR:O	1:F:435:LEU:HG	2.11	0.51
1:F:456:VAL:HA	1:F:459:ARG:HE	1.75	0.51
1:F:1260:LEU:HD22	1:F:1337:VAL:HG13	1.93	0.51
1:F:2208:ASP:HA	1:F:2211:LEU:HD12	1.93	0.51
1:F:2350:LYS:HZ2	1:F:2378:PHE:HE2	1.59	0.51
1:F:3090:TYR:CB	1:F:3099:ALA:HB2	2.40	0.51
1:F:3565:GLY:HA2	1:F:3569:GLN:OE1	2.10	0.51
1:F:3865:THR:O	1:F:3869:THR:HG23	2.11	0.51
2:G:322:TYR:CE2	3:H:494:LEU:HD21	2.46	0.51
2:G:526:LYS:HD2	3:H:256:ASN:OD1	2.11	0.51
3:H:182:PRO:HB2	3:H:520:ALA:HB3	1.93	0.51
1:A:215:PRO:O	1:A:216:LYS:HD2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:263:LYS:HZ1	1:A:264:ARG:HB3	1.75	0.50
1:A:346:TYR:OH	1:A:350:ARG:NH1	2.44	0.50
1:A:966:PHE:O	1:A:969:LEU:HB3	2.11	0.50
1:A:1002:GLU:OE1	1:A:1002:GLU:N	2.44	0.50
1:A:1046:PRO:HA	1:A:1049:GLN:CD	2.35	0.50
1:A:1271:ILE:O	1:A:1274:ARG:NH1	2.39	0.50
1:A:1431:LEU:HD11	1:A:1447:ARG:CZ	2.41	0.50
1:A:1471:GLN:HE22	1:A:1476:HIS:CE1	2.28	0.50
1:A:1855:PHE:HA	1:A:1867:ILE:HD11	1.93	0.50
1:A:1891:ALA:HB2	1:A:1896:ILE:H	1.75	0.50
1:A:2239:LYS:O	1:A:2242:VAL:HG12	2.10	0.50
1:A:2540:LEU:HA	1:A:2543:ASN:ND2	2.26	0.50
1:A:3050:LYS:O	1:A:3054:GLN:NE2	2.44	0.50
1:A:3766:GLN:O	1:A:3770:VAL:HG23	2.11	0.50
3:C:453:ALA:HB2	3:C:536:LEU:HD23	1.92	0.50
1:F:96:MET:HG3	1:F:99:LYS:HG3	1.93	0.50
1:F:306:VAL:HG12	1:F:309:LYS:HD2	1.93	0.50
1:F:3781:CYS:HA	1:F:3784:ARG:HB2	1.94	0.50
2:G:46:LYS:HD2	2:G:137:HIS:NE2	2.26	0.50
2:G:173:ASP:HA	2:G:213:ILE:HG23	1.92	0.50
2:G:299:LYS:NZ	3:H:292:GLU:HG2	2.26	0.50
2:G:357:LYS:HG3	3:H:413:LYS:HZ1	1.76	0.50
2:G:363:ARG:NH2	3:H:359:ASN:O	2.45	0.50
2:G:416:GLN:HB3	2:G:431:GLY:N	2.14	0.50
1:A:35:ILE:HG22	1:A:36:ARG:HD3	1.93	0.50
1:A:1428:ILE:HG13	1:A:1429:GLU:N	2.26	0.50
1:A:2122:LEU:HD13	1:A:2126:MET:HE1	1.93	0.50
1:A:2310:VAL:C	1:A:2312:TYR:H	2.19	0.50
1:A:2908:LYS:HD2	1:A:2909:ARG:O	2.11	0.50
1:A:2937:ASP:HB3	1:A:3979:LEU:HD13	1.93	0.50
1:A:3765:GLU:HA	1:A:3768:PHE:CE2	2.47	0.50
1:A:3810:VAL:N	1:A:3930:VAL:H	2.08	0.50
1:A:3949:ALA:HB1	1:A:3955:VAL:O	2.12	0.50
2:B:50:GLU:O	2:B:59:PRO:HD2	2.11	0.50
2:B:52:GLN:HG3	2:B:171:ASN:ND2	2.26	0.50
2:B:318:ARG:HH21	3:C:278:VAL:HA	1.75	0.50
1:F:320:LEU:HD13	1:F:368:LEU:HD13	1.92	0.50
1:F:616:LYS:NZ	1:F:618:LYS:HD2	2.26	0.50
1:F:639:ALA:HB1	1:F:642:PHE:HB3	1.93	0.50
1:F:1825:LEU:HA	1:F:1828:LEU:HD12	1.92	0.50
1:F:2897:LEU:HD13	1:F:2922:ARG:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3352:GLU:OE2	1:F:3357:ARG:HG3	2.10	0.50
1:F:3869:THR:HG22	1:F:3872:ARG:HH12	1.76	0.50
1:F:3962:ARG:NH2	1:F:4125:GLU:HG2	2.26	0.50
5:I:42:DA:H8	5:I:42:DA:OP2	1.93	0.50
1:A:531:PHE:HA	1:A:534:LEU:HD12	1.94	0.50
1:A:741:ILE:HA	1:A:748:TYR:CE2	2.38	0.50
1:A:1878:ASP:OD1	1:A:1879:VAL:N	2.44	0.50
1:A:2312:TYR:O	1:A:2315:VAL:HG23	2.10	0.50
1:A:2403:CYS:O	1:A:2404:ARG:NE	2.42	0.50
1:A:2959:ALA:HB2	1:A:2967:GLU:OE2	2.11	0.50
1:A:3960:PRO:HD3	1:A:4110:GLN:OE1	2.11	0.50
2:B:388:LYS:HE3	2:B:392:LYS:HB2	1.93	0.50
1:F:528:VAL:HG12	1:F:629:PHE:CE1	2.46	0.50
1:F:884:VAL:HG13	1:F:964:ARG:HH22	1.76	0.50
1:F:1624:GLN:O	1:F:1628:LYS:NZ	2.44	0.50
1:F:1667:SER:OG	1:F:1667:SER:O	2.29	0.50
1:F:1684:LEU:HB3	1:F:1688:LEU:HB2	1.94	0.50
1:F:2220:MET:HG2	1:F:2255:LEU:HD22	1.94	0.50
1:F:3471:ILE:O	1:F:3475:TYR:N	2.32	0.50
1:F:3956:PRO:HB3	1:F:4068:HIS:HE1	1.77	0.50
2:G:466:VAL:HG21	3:H:389:MET:HE1	1.92	0.50
3:H:183:PHE:CE2	3:H:190:PRO:HD2	2.46	0.50
1:A:446:PHE:N	1:A:447:PRO:HD3	2.16	0.50
1:A:721:TYR:O	1:A:722:LYS:HD3	2.11	0.50
1:A:1775:GLU:CD	1:A:1775:GLU:H	2.20	0.50
1:A:1834:ASP:HA	1:A:1837:ARG:NH1	2.26	0.50
1:A:2297:SER:HA	1:A:2300:PHE:CD1	2.47	0.50
1:A:2365:ASN:HB3	1:A:2366:LYS:HZ2	1.75	0.50
1:A:2981:TRP:CD1	1:A:2986:PRO:HD2	2.47	0.50
1:A:3111:MET:SD	1:A:3112:GLN:NE2	2.84	0.50
1:A:3663:THR:O	1:A:3667:LEU:HG	2.11	0.50
2:B:487:PHE:O	2:B:491:GLU:HG3	2.11	0.50
3:C:247:TRP:CH2	3:C:338:LYS:HE3	2.46	0.50
3:C:329:GLU:O	3:C:332:LYS:HE2	2.12	0.50
1:F:320:LEU:HD21	1:F:364:ARG:NH2	2.27	0.50
1:F:463:LYS:NZ	1:F:544:ILE:HG23	2.26	0.50
1:F:977:ASP:OD1	1:F:978:GLN:N	2.44	0.50
1:F:1444:ASP:HA	1:F:1447:ARG:HH12	1.76	0.50
1:F:2950:LYS:HG3	1:F:2994:TRP:HZ2	1.76	0.50
1:F:3037:GLN:HA	1:F:3040:TYR:CD2	2.41	0.50
1:F:3631:LYS:HA	1:F:3634:GLN:HE21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:194:ARG:HH12	2:G:199:PHE:HA	1.77	0.50
6:D:20:DT:C2	6:D:21:DA:N1	2.79	0.50
1:A:407:VAL:C	1:A:449:TYR:HE2	2.17	0.50
1:A:449:TYR:HB3	1:A:453:MET:SD	2.52	0.50
1:A:834:LEU:O	1:A:835:LYS:HG3	2.12	0.50
1:A:2400:VAL:HA	1:A:2403:CYS:SG	2.52	0.50
1:A:2434:VAL:O	1:A:2437:ASP:HB2	2.12	0.50
1:A:2951:GLN:HA	1:A:2954:GLN:NE2	2.27	0.50
1:A:3177:ASN:OD1	1:A:3178:ILE:N	2.44	0.50
1:A:3187:CYS:SG	1:A:3239:LYS:HE2	2.52	0.50
1:F:451:PRO:O	1:F:455:LEU:HG	2.11	0.50
1:F:484:HIS:O	1:F:487:LEU:HB2	2.11	0.50
1:F:1538:LEU:N	1:F:1553:PHE:O	2.44	0.50
1:F:1811:ARG:NH2	3:H:627:ASN:H	2.08	0.50
1:F:2387:PRO:HA	1:F:2394:LYS:NZ	2.27	0.50
1:F:2518:GLN:HA	1:F:2521:ILE:HG22	1.93	0.50
1:F:3421:ASP:OD1	1:F:3425:ARG:NH2	2.44	0.50
1:F:3568:ILE:O	1:F:3571:PHE:HB2	2.12	0.50
1:F:3717:VAL:HG12	1:F:3744:ASP:HB2	1.92	0.50
1:F:4049:ARG:HH21	1:F:4054:ALA:HB1	1.75	0.50
2:G:161:MET:HE1	2:G:164:LYS:HB3	1.93	0.50
2:G:340:PHE:HB3	2:G:408:PRO:HD3	1.93	0.50
2:G:507:THR:HG23	2:G:508:LEU:HD12	1.92	0.50
1:A:131:LEU:HD11	1:A:174:VAL:N	2.25	0.50
1:A:1124:ILE:HG13	1:A:1125:GLN:N	2.26	0.50
1:A:1190:LEU:HB3	1:A:1194:PHE:CZ	2.47	0.50
1:A:1329:ARG:HE	1:A:1329:ARG:HA	1.77	0.50
1:A:1878:ASP:HB3	1:A:1947:CYS:HA	1.93	0.50
1:A:2129:LEU:HD11	1:A:2146:LEU:HD22	1.93	0.50
1:A:2952:ILE:HG13	1:A:2971:GLN:HB3	1.93	0.50
1:A:3090:TYR:O	1:A:3094:ASP:N	2.45	0.50
1:A:3154:GLN:O	1:A:3157:LEU:HB2	2.12	0.50
1:A:3195:GLU:HG3	1:A:3196:LYS:HG2	1.92	0.50
1:A:3496:ILE:HG12	1:A:3707:GLY:HA3	1.92	0.50
1:A:3508:LYS:HZ1	1:A:3540:TYR:N	2.08	0.50
1:A:3644:PHE:HA	1:A:3653:ARG:NH2	2.27	0.50
1:A:3901:ARG:NH1	1:A:3970:LEU:HA	2.26	0.50
2:B:173:ASP:OD2	2:B:214:SER:N	2.44	0.50
2:B:512:GLU:O	2:B:516:LYS:HE2	2.12	0.50
1:F:83:GLU:HA	1:F:86:LEU:HD12	1.94	0.50
1:F:236:LYS:NZ	1:F:239:GLU:H	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:397:LEU:HA	1:F:441:MET:HE1	1.93	0.50
1:F:655:LEU:O	1:F:659:ARG:HG3	2.11	0.50
1:F:1102:GLU:H	1:F:1102:GLU:CD	2.18	0.50
1:F:1242:LEU:O	1:F:1312:CYS:HB2	2.12	0.50
1:F:2850:PHE:O	1:F:2852:PRO:HD3	2.11	0.50
1:F:2967:GLU:OE2	1:F:2971:GLN:NE2	2.45	0.50
2:G:325:ARG:NE	3:H:498:ALA:O	2.44	0.50
2:G:418:GLU:OE2	2:G:430:PRO:HG3	2.11	0.50
4:J:20:DT:C2	4:J:21:DA:N1	2.79	0.50
7:E:37:DT:H2'	7:E:38:DT:C5	2.46	0.50
1:A:67:VAL:HA	1:A:70:ARG:CZ	2.42	0.50
1:A:229:SER:O	1:A:278:HIS:NE2	2.45	0.50
1:A:305:ASN:ND2	1:A:307:GLU:HG2	2.27	0.50
1:A:530:LEU:O	1:A:534:LEU:HG	2.11	0.50
1:A:709:LYS:O	1:A:712:LYS:N	2.44	0.50
1:A:757:LYS:O	1:A:760:LEU:HB2	2.12	0.50
1:A:793:LEU:HD22	1:A:869:ASN:HB2	1.94	0.50
1:A:899:ARG:NH2	1:A:2565:MET:O	2.45	0.50
1:A:1627:LYS:O	1:A:1630:ASP:HB2	2.12	0.50
1:A:2365:ASN:CG	1:A:2400:VAL:HB	2.37	0.50
1:A:3090:TYR:HA	1:A:3093:GLN:HB2	1.94	0.50
1:A:3568:ILE:HD12	1:A:3571:PHE:HD2	1.77	0.50
2:B:34:GLY:C	2:B:162:SER:HB3	2.37	0.50
2:B:320:GLN:OE1	3:C:276:TRP:HA	2.12	0.50
3:C:90:LEU:O	3:C:94:ILE:HG12	2.12	0.50
3:C:394:ARG:NH1	3:C:396:ALA:HB3	2.27	0.50
3:C:618:ASN:HA	3:C:621:GLU:CD	2.36	0.50
1:F:1301:ILE:O	1:F:1303:MET:HE3	2.12	0.50
1:F:1828:LEU:O	1:F:1883:ARG:NH1	2.44	0.50
1:F:3052:LEU:HD11	1:F:3061:LEU:HD11	1.94	0.50
1:F:3610:TYR:CE1	1:F:3649:SER:HA	2.46	0.50
2:G:412:ALA:C	2:G:434:LEU:HD12	2.37	0.50
5:I:33:DA:H1'	5:I:34:DC:H5'	1.94	0.50
1:A:440:VAL:O	1:A:443:ILE:HB	2.12	0.50
1:A:1107:TYR:OH	1:A:1130:ALA:HB3	2.11	0.50
1:A:2349:LEU:O	1:A:2360:PHE:HE1	1.95	0.50
1:A:2450:GLU:O	1:A:2454:LEU:HD23	2.12	0.50
1:A:2928:LYS:O	1:A:2931:ARG:HB2	2.12	0.50
1:A:3502:MET:HA	1:A:3505:LEU:HD13	1.92	0.50
1:A:3586:LYS:HZ3	1:A:3671:ASN:HB3	1.76	0.50
1:A:3811:THR:HG21	1:A:3926:ASN:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3909:ALA:HB1	1:A:3984:MET:HE3	1.93	0.50
1:A:3999:THR:O	1:A:4002:MET:HG2	2.11	0.50
2:B:95:ASN:OD1	2:B:98:ASN:N	2.43	0.50
3:C:448:GLU:HA	3:C:451:LEU:HB2	1.93	0.50
1:F:1164:CYS:N	1:F:1167:ASP:OD2	2.44	0.50
1:F:1384:PHE:H	1:F:1386:ILE:HG23	1.77	0.50
1:F:1454:ALA:O	1:F:1457:GLN:NE2	2.45	0.50
1:F:2552:VAL:HA	1:F:2851:PHE:CG	2.46	0.50
1:F:3940:ILE:HG22	1:F:3941:ASP:N	2.27	0.50
2:G:93:ASP:OD2	2:G:100:LYS:CA	2.50	0.50
2:G:189:LYS:HA	2:G:192:ASP:OD2	2.12	0.50
3:H:69:SER:O	3:H:74:TYR:HB2	2.12	0.50
3:H:107:PHE:CE2	3:H:111:LEU:HD11	2.46	0.50
3:H:363:LYS:HG3	3:H:365:PHE:CE1	2.47	0.50
3:H:629:THR:HA	3:H:632:PHE:CE2	2.47	0.50
5:I:21:DA:H1'	5:I:22:DA:C8	2.46	0.50
6:D:22:DG:O5'	6:D:22:DG:H8	1.95	0.50
6:D:31:DT:C2	7:E:26:DA:C2	3.00	0.50
1:A:100:ILE:HG13	1:A:103:TYR:HD2	1.77	0.50
1:A:230:LEU:HD23	1:A:234:PHE:CZ	2.46	0.50
1:A:1329:ARG:NE	1:A:1332:TYR:HB3	2.27	0.50
1:A:1559:PHE:HA	1:A:1562:LEU:HD12	1.94	0.50
1:A:1848:ILE:HB	1:A:1852:LYS:HZ1	1.77	0.50
1:A:3095:ASP:OD1	1:A:3095:ASP:N	2.43	0.50
2:B:71:TYR:O	2:B:75:ILE:HG13	2.12	0.50
2:B:289:TYR:H	2:B:294:GLU:N	2.10	0.50
3:C:337:GLY:H	3:C:399:LYS:HG2	1.76	0.50
1:F:471:LYS:HB3	1:F:474:VAL:HG22	1.93	0.50
1:F:1090:ARG:HG3	1:F:1091:GLU:OE1	2.12	0.50
1:F:1296:PHE:HA	1:F:1299:GLU:OE2	2.11	0.50
1:F:1374:GLN:HA	1:F:1377:CYS:SG	2.52	0.50
1:F:1608:ARG:HB2	1:F:1612:LYS:NZ	2.26	0.50
1:F:1921:ASP:OD1	1:F:1922:ALA:N	2.42	0.50
1:F:2158:ARG:HH21	1:F:2196:TRP:HB3	1.76	0.50
1:F:2268:LYS:HE3	1:F:2311:ARG:NH2	2.26	0.50
1:F:2409:THR:HG23	1:F:2445:LYS:HG2	1.94	0.50
1:F:2444:PRO:HA	1:F:2479:TRP:CZ2	2.47	0.50
1:F:2494:ASP:O	1:F:2497:GLU:HG2	2.12	0.50
1:F:2851:PHE:CD2	1:F:2854:PHE:HB2	2.34	0.50
1:F:3490:VAL:HG23	1:F:3494:GLN:OE1	2.12	0.50
1:F:3571:PHE:CD1	1:F:3686:TRP:HZ3	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3923:ARG:HB2	1:F:3962:ARG:HB2	1.94	0.50
2:G:140:ASP:OD1	2:G:141:TYR:N	2.40	0.50
6:D:31:DT:N3	7:E:26:DA:C2	2.80	0.50
1:A:344:GLN:O	1:A:348:ILE:HG12	2.10	0.49
1:A:1400:VAL:O	1:A:1404:LYS:HG2	2.12	0.49
1:A:1464:LEU:HG	1:A:1521:PHE:CZ	2.46	0.49
1:A:2122:LEU:HA	1:A:2126:MET:CE	2.42	0.49
1:A:2227:LYS:HE2	1:A:2230:VAL:HG22	1.94	0.49
1:A:2389:PHE:HB2	1:A:2394:LYS:HZ2	1.76	0.49
1:A:2911:ARG:NH2	1:A:2912:GLY:O	2.31	0.49
1:A:3193:ILE:HG13	1:A:3194:GLU:N	2.27	0.49
1:A:3237:SER:O	1:A:3240:MET:HB2	2.12	0.49
1:A:3675:LYS:HD3	1:A:3676:PRO:O	2.10	0.49
2:B:121:GLN:O	2:B:126:GLN:NE2	2.35	0.49
2:B:325:ARG:HH21	3:C:498:ALA:HA	1.76	0.49
2:B:458:GLN:O	2:B:462:MET:HG2	2.12	0.49
3:C:108:LEU:O	3:C:112:ILE:HG13	2.11	0.49
1:F:418:ALA:HB2	1:F:464:VAL:HG12	1.94	0.49
1:F:783:HIS:O	1:F:786:GLN:HG2	2.11	0.49
1:F:1090:ARG:HA	1:F:1096:VAL:HG11	1.94	0.49
1:F:1122:GLY:HA2	1:F:1125:GLN:HE22	1.77	0.49
1:F:1593:VAL:O	1:F:1597:LEU:HG	2.12	0.49
1:F:1908:GLY:O	1:F:1913:LYS:NZ	2.36	0.49
1:F:2252:PRO:C	1:F:2254:ARG:H	2.19	0.49
1:F:2330:VAL:HG13	1:F:2333:ARG:HH12	1.77	0.49
1:F:2514:ASN:HB3	1:F:2517:LEU:HG	1.94	0.49
1:F:3495:PHE:HB3	1:F:3498:TRP:HB2	1.93	0.49
1:F:3632:PHE:HE1	1:F:3675:LYS:HB3	1.77	0.49
1:F:3765:GLU:HA	1:F:3768:PHE:CD2	2.42	0.49
1:F:4105:LYS:HA	1:F:4108:MET:HE3	1.94	0.49
2:G:261:LEU:HD23	2:G:345:LEU:HG	1.94	0.49
3:H:81:ARG:NH1	3:H:84:MET:HE2	2.25	0.49
6:D:19:DA:C5	6:D:20:DT:C4	2.99	0.49
1:A:57:LEU:HD21	1:A:100:ILE:HD11	1.94	0.49
1:A:109:ASN:O	1:A:112:THR:OG1	2.30	0.49
1:A:133:LYS:O	1:A:137:THR:HG23	2.12	0.49
1:A:263:LYS:NZ	1:A:264:ARG:HB3	2.27	0.49
1:A:568:PHE:O	1:A:572:VAL:HG23	2.11	0.49
1:A:1891:ALA:CB	1:A:1895:LYS:H	2.24	0.49
1:A:2102:LYS:HA	1:A:2105:HIS:HB3	1.93	0.49
1:A:2158:ARG:NH2	1:A:2195:SER:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2159:PRO:HG2	1:A:2160:TYR:CE1	2.47	0.49
1:A:2291:GLN:NE2	1:A:2295:GLN:HA	2.26	0.49
1:A:2903:ALA:O	1:A:2904:GLU:HG2	2.11	0.49
1:A:3386:SER:HA	1:A:3389:VAL:HG12	1.94	0.49
2:B:299:LYS:O	3:C:293:THR:HA	2.12	0.49
3:C:247:TRP:NE1	3:C:249:CYS:HB2	2.27	0.49
1:F:76:ILE:HG13	1:F:80:GLU:HG2	1.94	0.49
1:F:251:PHE:HA	1:F:254:LYS:HG2	1.93	0.49
1:F:899:ARG:HB3	1:F:2570:PRO:HD2	1.94	0.49
1:F:1038:LYS:HE2	1:F:1042:LYS:NZ	2.27	0.49
1:F:1403:MET:HE3	1:F:1461:ALA:HB2	1.94	0.49
1:F:1627:LYS:NZ	1:F:1674:THR:OG1	2.43	0.49
1:F:1756:PRO:HA	1:F:1797:LEU:HD11	1.94	0.49
1:F:2271:SER:HA	1:F:2274:ILE:HD13	1.93	0.49
1:F:2481:HIS:CD2	1:F:2530:ARG:HE	2.29	0.49
1:F:2490:GLU:O	1:F:2496:GLN:NE2	2.40	0.49
1:F:3493:TRP:HD1	1:F:3521:ILE:HG13	1.76	0.49
1:F:3511:ALA:O	1:F:3515:GLN:N	2.32	0.49
2:G:116:ILE:H	2:G:116:ILE:HD12	1.77	0.49
3:H:524:THR:O	3:H:527:GLN:NE2	2.44	0.49
1:A:82:ARG:O	1:A:86:LEU:HG	2.12	0.49
1:A:370:ALA:O	1:A:374:LYS:N	2.44	0.49
1:A:531:PHE:CD2	1:A:633:ILE:HG21	2.41	0.49
1:A:1283:GLY:HA3	1:A:1356:TRP:CZ2	2.47	0.49
1:A:1394:HIS:ND1	1:A:1394:HIS:O	2.45	0.49
1:A:1674:THR:O	1:A:1678:LEU:HG	2.12	0.49
1:A:1752:LEU:HA	1:A:1788:ARG:HH22	1.78	0.49
1:A:1871:MET:HA	1:A:1874:TYR:HD2	1.77	0.49
1:A:1879:VAL:O	1:A:1882:SER:OG	2.21	0.49
1:A:2189:ILE:O	1:A:2193:ILE:HG13	2.12	0.49
1:A:2398:LEU:HD12	1:A:2431:ARG:HB2	1.94	0.49
2:B:490:LEU:HD22	3:C:323:PHE:CE2	2.47	0.49
3:C:209:LYS:HA	3:C:212:MET:HG3	1.93	0.49
3:C:263:ALA:HA	3:C:364:VAL:HA	1.93	0.49
3:C:609:PHE:O	3:C:654:ARG:NH2	2.44	0.49
1:F:895:ALA:HA	1:F:904:VAL:HG22	1.93	0.49
1:F:1143:VAL:HA	1:F:1146:ASN:HD22	1.76	0.49
1:F:1505:LEU:O	1:F:1509:GLN:HG3	2.11	0.49
1:F:2402:LEU:HA	1:F:2438:ILE:HG12	1.94	0.49
1:F:2820:MET:HA	1:F:2823:PHE:CZ	2.46	0.49
1:F:3020:ASP:N	1:F:3020:ASP:OD1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:522:VAL:HA	3:H:525:LYS:HG2	1.94	0.49
6:D:16:DA:C5	6:D:17:DT:C4	2.99	0.49
7:E:27:DC:H2'	7:E:28:DT:C6	2.46	0.49
1:A:282:PHE:HB3	1:A:285:CYS:HB2	1.95	0.49
1:A:291:VAL:O	1:A:294:PHE:N	2.43	0.49
1:A:571:SER:HA	1:A:574:LYS:HG2	1.94	0.49
1:A:845:ALA:HB1	1:A:851:ILE:HD11	1.93	0.49
1:A:1756:PRO:HA	1:A:1759:LEU:CB	2.40	0.49
1:A:2447:LYS:HD3	1:A:2449:VAL:H	1.77	0.49
1:A:3164:TRP:HB3	1:A:3186:ARG:HH11	1.77	0.49
2:B:51:SER:HB3	2:B:54:GLU:O	2.12	0.49
2:B:82:LEU:C	2:B:83:LEU:HD12	2.37	0.49
2:B:354:VAL:HG13	2:B:355:LEU:HD22	1.95	0.49
1:F:435:LEU:O	1:F:438:LEU:HG	2.12	0.49
1:F:463:LYS:HZ2	1:F:544:ILE:HG23	1.77	0.49
1:F:1334:LYS:O	1:F:1338:VAL:HG23	2.13	0.49
1:F:1366:THR:H	1:F:1369:MET:HE3	1.78	0.49
1:F:2503:LYS:HA	1:F:2506:LEU:HD12	1.93	0.49
1:F:3059:GLN:HA	1:F:3062:LEU:HB2	1.93	0.49
1:F:3120:LEU:HD12	1:F:3121:LEU:HD22	1.95	0.49
1:F:3319:ASN:ND2	1:F:3321:LEU:HB3	2.27	0.49
4:J:37:DG:H22	5:I:20:DT:H1'	1.76	0.49
1:A:289:ASN:OD1	1:A:292:SER:HB2	2.12	0.49
1:A:439:VAL:O	1:A:443:ILE:HG12	2.13	0.49
1:A:624:ILE:O	1:A:628:GLU:HG3	2.12	0.49
1:A:665:GLY:O	1:A:669:LEU:HG	2.12	0.49
1:A:871:LEU:HD23	1:A:872:THR:HG23	1.94	0.49
1:A:1070:PRO:HB2	1:A:3743:HIS:HA	1.94	0.49
1:A:1165:LEU:O	1:A:1169:VAL:HG23	2.13	0.49
1:A:1444:ASP:O	1:A:1448:LEU:HG	2.11	0.49
1:A:1836:LEU:H	1:A:1836:LEU:HD23	1.77	0.49
1:A:2572:TYR:O	1:A:2788:SER:N	2.46	0.49
1:A:2983:ASP:OD1	1:A:2983:ASP:N	2.46	0.49
1:A:3077:ILE:HA	1:A:3080:LEU:HG	1.94	0.49
1:A:3969:ASN:O	1:A:3972:LEU:HD23	2.12	0.49
2:B:54:GLU:HB3	2:B:56:GLU:CD	2.38	0.49
2:B:348:MET:HE1	3:C:518:PRO:HA	1.94	0.49
3:C:721:GLU:HA	3:C:724:ASP:HB3	1.94	0.49
1:F:756:PHE:HB2	1:F:795:CYS:SG	2.53	0.49
1:F:1181:THR:OG1	1:F:1265:GLU:OE1	2.24	0.49
1:F:1444:ASP:HA	1:F:1447:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1597:LEU:O	1:F:1600:MET:HB2	2.12	0.49
1:F:1707:LEU:HD13	1:F:1757:MET:HE2	1.95	0.49
1:F:2256:ILE:H	1:F:2256:ILE:HD12	1.76	0.49
1:F:2341:LEU:HA	1:F:2344:LEU:HD12	1.94	0.49
1:F:2479:TRP:HA	1:F:2482:ASP:OD2	2.12	0.49
1:F:3956:PRO:HB3	1:F:4068:HIS:CE1	2.48	0.49
3:H:74:TYR:CE1	3:H:109:ASP:HA	2.47	0.49
1:A:152:LEU:HD12	1:A:156:PHE:CZ	2.47	0.49
1:A:699:GLU:CD	1:A:700:LYS:HZ3	2.20	0.49
1:A:1468:LEU:HD13	1:A:1521:PHE:CE1	2.47	0.49
1:A:1589:ASN:CB	1:A:1592:MET:HE2	2.42	0.49
1:A:2831:ASN:O	1:A:2835:LYS:HG3	2.12	0.49
1:A:3020:ASP:N	1:A:3020:ASP:OD1	2.45	0.49
1:A:3029:LYS:HE3	1:A:3074:GLN:HG3	1.93	0.49
1:A:3042:PRO:O	1:A:3046:ARG:HG3	2.13	0.49
1:A:3523:ASP:OD1	1:A:3561:LYS:HG2	2.12	0.49
1:A:3634:GLN:O	1:A:3638:LYS:HG3	2.12	0.49
3:C:674:PHE:CG	3:C:675:TRP:N	2.81	0.49
1:F:24:ARG:NH2	1:F:25:CYS:HA	2.28	0.49
1:F:54:GLN:HG2	1:F:55:THR:N	2.27	0.49
1:F:225:LYS:HZ3	1:F:268:PRO:HA	1.77	0.49
1:F:484:HIS:NE2	1:F:575:ILE:HG13	2.28	0.49
1:F:678:LYS:NZ	1:F:683:PHE:O	2.45	0.49
1:F:940:PHE:CE1	1:F:944:LYS:HE3	2.48	0.49
1:F:1829:TRP:CG	1:F:1883:ARG:HH22	2.31	0.49
1:F:2512:ASP:C	1:F:2518:GLN:HE22	2.21	0.49
2:G:273:ILE:HG23	2:G:368:VAL:HG23	1.93	0.49
3:H:55:ALA:O	3:H:57:VAL:HG13	2.12	0.49
3:H:165:LEU:N	3:H:226:SER:HA	2.26	0.49
3:H:659:LEU:HD22	3:H:688:LYS:HZ1	1.77	0.49
7:E:21:DA:H2"	7:E:22:DA:C8	2.47	0.49
1:A:382:ASP:O	1:A:386:VAL:HG23	2.12	0.49
1:A:641:PHE:O	1:A:645:TRP:HZ3	1.96	0.49
1:A:737:PRO:O	1:A:740:ILE:HG12	2.13	0.49
1:A:858:MET:HA	1:A:861:SER:OG	2.12	0.49
1:A:877:ASP:HA	1:A:880:MET:SD	2.53	0.49
1:A:960:GLN:O	1:A:963:LYS:HG2	2.12	0.49
1:A:1104:LEU:HD13	1:A:1134:LEU:HD11	1.95	0.49
1:A:1235:ILE:H	1:A:1235:ILE:HD12	1.78	0.49
1:A:1361:LYS:HE3	1:A:1411:TYR:CE1	2.47	0.49
1:A:1606:ARG:NH1	1:A:1607:GLU:OE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1692:ALA:HA	1:A:1695:LEU:HD13	1.95	0.49
1:A:1897:ASN:HB2	1:A:1911:LEU:HD23	1.94	0.49
1:A:2393:LEU:O	1:A:2396:LEU:HB2	2.12	0.49
1:A:2791:ILE:O	1:A:2794:LEU:HB2	2.12	0.49
1:A:2820:MET:HE1	1:A:2829:LYS:HG2	1.95	0.49
1:A:3563:ASP:HB3	1:A:3566:GLY:HA3	1.95	0.49
1:A:3809:THR:HB	1:A:3931:ALA:HB2	1.95	0.49
2:B:304:ASN:OD1	2:B:309:GLY:N	2.46	0.49
3:C:182:PRO:O	3:C:189:GLY:HA2	2.12	0.49
1:F:42:CYS:HB2	1:F:88:PHE:CD1	2.48	0.49
1:F:203:GLU:OE1	1:F:203:GLU:HA	2.13	0.49
1:F:678:LYS:HZ1	1:F:683:PHE:HB2	1.77	0.49
1:F:1220:LEU:HA	1:F:1223:THR:HG22	1.95	0.49
1:F:1256:TRP:HH2	1:F:1296:PHE:CD2	2.30	0.49
1:F:1295:ALA:O	1:F:1298:LEU:HB2	2.13	0.49
1:F:1428:ILE:HG13	1:F:1429:GLU:N	2.26	0.49
1:F:1476:HIS:H	1:F:1524:LEU:HD21	1.76	0.49
1:F:1776:GLU:OE1	1:F:1776:GLU:N	2.41	0.49
1:F:2215:LEU:O	1:F:2219:LEU:HG	2.12	0.49
1:F:2349:LEU:HD12	1:F:2378:PHE:CE1	2.47	0.49
1:F:3101:TYR:HA	1:F:3104:GLN:CD	2.38	0.49
1:F:3149:GLY:O	1:F:3152:SER:OG	2.27	0.49
1:F:3571:PHE:O	1:F:3575:LEU:HG	2.12	0.49
1:F:3814:ASP:OD1	1:F:3815:LEU:N	2.46	0.49
1:F:4006:VAL:HG23	1:F:4011:PHE:CD2	2.48	0.49
3:H:183:PHE:HE2	3:H:192:PHE:HE1	1.59	0.49
3:H:651:GLU:HB3	3:H:654:ARG:HB2	1.95	0.49
1:A:315:ALA:O	1:A:318:SER:OG	2.26	0.49
1:A:697:ASP:HB2	1:A:700:LYS:NZ	2.27	0.49
1:A:1354:GLU:OE2	1:A:1410:PRO:HD3	2.13	0.49
1:A:1663:THR:H	1:A:1665:HIS:HE1	1.60	0.49
1:A:2125:TRP:CZ3	1:A:2126:MET:HB2	2.48	0.49
1:A:2429:ASP:HA	1:A:2432:GLN:NE2	2.27	0.49
1:A:2772:TYR:N	1:A:2775:TYR:OH	2.39	0.49
1:A:2803:ILE:O	1:A:2806:LYS:HG3	2.13	0.49
1:A:3160:LEU:HD12	1:A:3163:THR:HB	1.94	0.49
1:A:3176:MET:HE1	1:A:3179:TRP:CD1	2.47	0.49
1:A:3391:ALA:HA	1:A:3394:GLU:OE2	2.13	0.49
1:A:3813:LYS:HA	1:A:3816:LEU:HD12	1.93	0.49
1:A:3898:LEU:HA	1:A:3901:ARG:HG3	1.94	0.49
1:A:3979:LEU:O	1:A:3983:ILE:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4078:VAL:O	1:A:4082:ARG:HG3	2.12	0.49
2:B:273:ILE:HG23	2:B:367:PHE:O	2.13	0.49
1:F:374:LYS:NZ	1:F:423:TYR:O	2.30	0.49
1:F:554:ASN:C	1:F:554:ASN:ND2	2.70	0.49
1:F:1202:ARG:NH2	1:F:1210:ASP:HB2	2.27	0.49
1:F:2086:ASP:OD1	1:F:2184:TYR:OH	2.21	0.49
1:F:2311:ARG:HH12	1:F:2312:TYR:HB2	1.75	0.49
1:F:2428:ASP:C	1:F:2432:GLN:HG2	2.38	0.49
1:F:2550:ILE:O	1:F:2550:ILE:HG22	2.13	0.49
1:F:2850:PHE:HD2	1:F:2882:ALA:HB3	1.78	0.49
1:F:3374:ILE:HA	1:F:3377:LEU:HD12	1.94	0.49
1:F:3812:LEU:HB3	1:F:3925:LEU:CD2	2.42	0.49
1:F:3815:LEU:O	1:F:3819:THR:HG23	2.13	0.49
2:G:158:GLN:OE1	2:G:158:GLN:N	2.45	0.49
2:G:473:TYR:HB2	3:H:346:CYS:CB	2.43	0.49
1:A:451:PRO:O	1:A:455:LEU:HG	2.13	0.49
1:A:797:ASP:HB2	1:A:801:LYS:HE2	1.94	0.49
1:A:1444:ASP:HA	1:A:1447:ARG:NE	2.28	0.49
1:A:1539:SER:HA	1:A:1552:HIS:ND1	2.27	0.49
1:A:1874:TYR:HB2	1:A:1943:ALA:HB1	1.94	0.49
1:A:2437:ASP:O	1:A:2441:LYS:HG2	2.13	0.49
1:A:2937:ASP:OD1	1:A:3979:LEU:HA	2.13	0.49
1:A:3096:VAL:HG13	1:A:3100:LYS:HZ2	1.78	0.49
1:A:3258:LEU:HA	1:A:3261:GLU:OE2	2.13	0.49
1:A:3531:TYR:HA	1:A:3534:ILE:HD12	1.95	0.49
2:B:71:TYR:CE2	2:B:75:ILE:HD11	2.48	0.49
2:B:279:LYS:HZ2	3:C:357:MET:HB3	1.77	0.49
2:B:412:ALA:C	2:B:434:LEU:HD12	2.38	0.49
3:C:395:TYR:CE1	3:C:397:TYR:HB2	2.47	0.49
1:F:210:SER:O	1:F:212:VAL:N	2.44	0.49
1:F:429:GLU:O	1:F:432:THR:HG22	2.13	0.49
1:F:497:LEU:HD12	1:F:498:PRO:HD2	1.94	0.49
1:F:623:PHE:CE2	1:F:663:ILE:HG21	2.41	0.49
1:F:786:GLN:HA	1:F:789:TYR:CD2	2.48	0.49
1:F:826:PHE:CE2	1:F:836:LYS:HD2	2.47	0.49
1:F:1538:LEU:HB2	1:F:1555:HIS:CE1	2.48	0.49
1:F:1765:VAL:HA	1:F:1768:ARG:CZ	2.42	0.49
1:F:1766:LEU:HD11	1:F:1775:GLU:HG3	1.95	0.49
1:F:2090:ARG:O	1:F:2094:MET:HE3	2.13	0.49
1:F:2897:LEU:HB2	1:F:2922:ARG:HD3	1.95	0.49
1:F:3147:LYS:HB3	1:F:3150:ASN:OD1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3549:HIS:HA	1:F:3552:LYS:HD2	1.93	0.49
1:F:3617:LEU:HD11	1:F:3636:PHE:HB2	1.95	0.49
1:F:3758:LEU:HD12	1:F:3794:VAL:C	2.37	0.49
2:G:470:ARG:NE	3:H:346:CYS:HA	2.28	0.49
3:H:8:ALA:HA	3:H:129:LYS:HB3	1.95	0.49
3:H:406:GLY:HA3	3:H:421:TYR:CE1	2.48	0.49
1:A:302:ALA:HA	1:A:309:LYS:HE3	1.94	0.49
1:A:1367:HIS:ND1	1:A:1370:ARG:HD3	2.27	0.49
1:A:1645:VAL:O	1:A:1649:LEU:HG	2.13	0.49
1:A:1848:ILE:HG22	1:A:1915:LEU:HD21	1.95	0.49
1:A:3034:PRO:HB2	1:A:3037:GLN:OE1	2.13	0.49
1:A:3045:ILE:O	1:A:3049:LEU:HG	2.12	0.49
1:A:3266:SER:HA	1:A:3272:TRP:HB3	1.93	0.49
1:A:3382:PHE:O	1:A:3385:LEU:HG	2.13	0.49
1:A:3681:LYS:HE2	1:A:3724:GLU:HA	1.95	0.49
1:A:3860:LYS:HD3	1:A:4073:ALA:H	1.76	0.49
1:A:3913:ILE:O	1:A:3916:TRP:N	2.45	0.49
2:B:147:LEU:HB2	2:B:189:LYS:HE2	1.94	0.49
3:C:264:TYR:HB2	3:C:363:LYS:HG3	1.95	0.49
3:C:407:VAL:HG12	3:C:424:LEU:HD21	1.95	0.49
1:F:132:ILE:HD12	1:F:135:LEU:HD12	1.94	0.49
1:F:848:LEU:HA	1:F:851:ILE:HD12	1.95	0.49
1:F:933:LEU:HD22	1:F:2794:LEU:HD23	1.95	0.49
1:F:1404:LYS:NZ	1:F:1460:ARG:O	2.45	0.49
1:F:1772:HIS:N	1:F:1775:GLU:OE2	2.45	0.49
1:F:1913:LYS:HA	1:F:1916:ILE:HD12	1.94	0.49
1:F:2253:TYR:O	1:F:2257:PHE:N	2.23	0.49
1:F:2361:ILE:HD12	1:F:2361:ILE:H	1.77	0.49
1:F:2397:CYS:O	1:F:2401:VAL:HG23	2.13	0.49
1:F:2462:VAL:O	1:F:2463:SER:OG	2.27	0.49
1:F:3769:GLN:HA	1:F:3772:ASN:HB2	1.95	0.49
2:G:87:PHE:HB2	2:G:103:TYR:HB3	1.95	0.49
2:G:140:ASP:CG	2:G:141:TYR:H	2.21	0.49
2:G:410:PHE:HB3	2:G:437:LEU:HD21	1.93	0.49
3:H:36:LYS:HZ1	3:H:231:LEU:HD21	1.78	0.49
1:A:243:GLN:HA	1:A:246:ARG:HE	1.78	0.48
1:A:1004:GLN:O	1:A:1007:VAL:HG22	2.13	0.48
1:A:1095:LEU:HD12	1:A:1099:PHE:HE2	1.78	0.48
1:A:2792:THR:O	1:A:2795:GLN:HB3	2.13	0.48
1:A:3796:MET:N	1:A:3801:GLY:HA2	2.28	0.48
2:B:119:LEU:HA	2:B:122:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:524:THR:HA	3:C:527:GLN:HG2	1.95	0.48
1:F:320:LEU:HB2	1:F:368:LEU:HD22	1.95	0.48
1:F:484:HIS:CD2	1:F:574:LYS:HD2	2.48	0.48
1:F:581:LEU:HD21	1:F:659:ARG:HH11	1.77	0.48
1:F:663:ILE:HB	1:F:666:PHE:CE2	2.48	0.48
1:F:678:LYS:NZ	1:F:683:PHE:H	2.10	0.48
1:F:801:LYS:O	1:F:3115:SER:HB2	2.13	0.48
1:F:1376:LEU:HD21	1:F:1457:GLN:HE22	1.78	0.48
1:F:1527:ARG:O	1:F:1530:SER:OG	2.22	0.48
1:F:1598:ASN:HA	1:F:1601:LEU:HD12	1.95	0.48
1:F:1729:PHE:HA	1:F:1735:ARG:HH22	1.78	0.48
1:F:2238:ILE:O	1:F:2242:VAL:HG13	2.13	0.48
3:H:271:ARG:HD3	3:H:486:ARG:HH22	1.78	0.48
3:H:348:SER:HA	3:H:390:VAL:HG13	1.94	0.48
3:H:595:ALA:HA	3:H:598:PHE:CE2	2.47	0.48
1:A:70:ARG:CZ	1:A:82:ARG:NH2	2.76	0.48
1:A:238:MET:HG2	1:A:281:GLN:C	2.38	0.48
1:A:667:TYR:CD2	1:A:729:CYS:HB3	2.48	0.48
1:A:862:LEU:HD21	1:A:866:ILE:HB	1.95	0.48
1:A:1182:GLU:HA	1:A:1185:HIS:ND1	2.28	0.48
1:A:1368:LEU:O	1:A:1372:LEU:HG	2.13	0.48
1:A:2276:LEU:HA	1:A:2279:ILE:HD12	1.93	0.48
1:A:2936:TYR:HA	1:A:2939:LEU:CD1	2.43	0.48
1:A:3530:VAL:O	1:A:3534:ILE:HG13	2.14	0.48
1:A:3706:ASP:HB3	1:A:3708:ARG:CZ	2.43	0.48
1:A:3973:PRO:HG2	1:A:3974:MET:SD	2.53	0.48
2:B:471:PHE:HD2	3:C:344:GLY:HA2	1.77	0.48
3:C:640:ARG:O	3:C:643:ARG:NH1	2.46	0.48
1:F:172:GLU:HB2	1:F:219:VAL:HG12	1.95	0.48
1:F:210:SER:HB3	2:G:332:GLU:OE2	2.13	0.48
1:F:458:CYS:O	1:F:462:VAL:HG23	2.13	0.48
1:F:827:ASN:HB3	1:F:836:LYS:HE2	1.95	0.48
1:F:1453:SER:HA	1:F:1456:LYS:HZ3	1.78	0.48
1:F:1495:ASP:OD1	1:F:1495:ASP:N	2.47	0.48
1:F:2340:SER:HA	1:F:2343:GLU:OE2	2.13	0.48
1:F:2356:MET:SD	1:F:2357:GLU:N	2.86	0.48
1:F:2987:THR:HG22	1:F:2990:GLU:OE1	2.13	0.48
1:F:3254:LEU:O	1:F:3258:LEU:HG	2.13	0.48
1:F:3353:GLU:HB3	1:F:3355:LYS:HE2	1.94	0.48
1:F:3766:GLN:HA	1:F:3769:GLN:NE2	2.27	0.48
1:F:3965:ARG:HA	1:F:3968:ILE:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:4100:GLU:HG2	1:F:4101:GLU:N	2.28	0.48
1:F:4125:GLU:HA	1:F:4127:TRP:CZ3	2.48	0.48
2:G:59:PRO:HA	2:G:62:MET:HG2	1.95	0.48
1:A:214:GLU:HG2	2:B:403:ARG:HH22	1.78	0.48
1:A:535:LEU:HD22	1:A:637:LYS:HB2	1.96	0.48
1:A:672:ILE:HG13	1:A:673:THR:N	2.28	0.48
1:A:1101:PHE:O	1:A:1105:VAL:HG23	2.12	0.48
1:A:2343:GLU:HB3	1:A:2347:LYS:NZ	2.29	0.48
2:B:403:ARG:HD3	2:B:404:ARG:N	2.29	0.48
1:F:151:GLU:O	1:F:154:SER:OG	2.22	0.48
1:F:363:ILE:HA	1:F:366:TYR:HD2	1.77	0.48
1:F:414:LEU:HD11	1:F:461:ILE:HG13	1.94	0.48
1:F:471:LYS:O	1:F:475:LEU:N	2.44	0.48
1:F:1058:SER:HA	1:F:1061:LYS:HE2	1.94	0.48
1:F:1155:ARG:HH22	1:F:3691:LYS:HB3	1.77	0.48
1:F:1224:PHE:CZ	1:F:1281:VAL:HG13	2.47	0.48
1:F:2549:LYS:HB3	1:F:2550:ILE:HD12	1.95	0.48
1:F:2782:ASP:CG	1:F:2785:ILE:HD11	2.38	0.48
1:F:3374:ILE:HG22	1:F:3377:LEU:HD12	1.94	0.48
1:F:3593:ARG:NH2	1:F:3661:ASP:OD1	2.27	0.48
1:F:3650:LYS:HZ1	1:F:3653:ARG:HD3	1.78	0.48
1:F:3681:LYS:O	1:F:3688:SER:OG	2.31	0.48
1:F:3706:ASP:HB3	1:F:3708:ARG:HH22	1.78	0.48
1:F:3813:LYS:NZ	1:F:3925:LEU:HB3	2.28	0.48
1:F:3816:LEU:CD1	1:F:3882:LEU:HD11	2.43	0.48
2:G:48:MET:HE3	2:G:60:PHE:HA	1.95	0.48
3:H:58:LEU:N	3:H:78:THR:O	2.46	0.48
1:A:471:LYS:NZ	1:A:473:PRO:HG2	2.28	0.48
1:A:721:TYR:C	1:A:726:LEU:HB2	2.38	0.48
1:A:848:LEU:HB3	1:A:852:ARG:NH1	2.29	0.48
1:A:2093:CYS:C	1:A:2096:PRO:HD2	2.38	0.48
1:A:2106:ARG:HA	1:A:2106:ARG:CZ	2.44	0.48
1:A:2233:HIS:O	1:A:2237:ILE:HD12	2.13	0.48
1:A:3098:ARG:HG2	1:A:3101:TYR:HB3	1.95	0.48
2:B:357:LYS:N	2:B:360:HIS:HE1	2.12	0.48
1:F:98:GLN:HE22	1:F:141:SER:N	2.11	0.48
1:F:387:GLU:HB2	1:F:391:ARG:HH11	1.77	0.48
1:F:457:CYS:O	1:F:461:ILE:HD12	2.12	0.48
1:F:1016:GLY:O	1:F:1026:ARG:HG2	2.13	0.48
1:F:2186:VAL:O	1:F:2190:VAL:HG23	2.13	0.48
1:F:2551:GLU:OE1	1:F:2551:GLU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3716:HIS:H	1:F:3718:ARG:NH1	2.12	0.48
1:F:3755:GLY:HA2	1:F:3799:ARG:C	2.38	0.48
2:G:238:LYS:O	2:G:242:LEU:N	2.38	0.48
2:G:267:ILE:HD13	3:H:534:LYS:HE2	1.94	0.48
2:G:282:LYS:HZ3	2:G:483:LEU:HD13	1.77	0.48
2:G:302:THR:HG23	2:G:311:LEU:HD23	1.94	0.48
2:G:372:GLU:OE2	2:G:376:ILE:HA	2.13	0.48
3:H:632:PHE:O	3:H:636:ILE:HG12	2.14	0.48
1:A:75:SER:HB3	1:A:78:PHE:CD1	2.49	0.48
1:A:155:LYS:O	1:A:158:GLY:N	2.46	0.48
1:A:210:SER:O	1:A:213:ARG:NH1	2.46	0.48
1:A:410:MET:HE2	1:A:413:PHE:CE2	2.48	0.48
1:A:475:LEU:O	1:A:479:ILE:HG12	2.14	0.48
1:A:1069:HIS:CD2	1:A:1070:PRO:HD2	2.47	0.48
1:A:1333:SER:O	1:A:1336:THR:OG1	2.22	0.48
1:A:1424:THR:C	1:A:1426:GLN:H	2.20	0.48
1:A:2443:MET:HE2	1:A:2479:TRP:HE3	1.74	0.48
1:A:2804:ILE:HG13	1:A:2805:ALA:N	2.29	0.48
1:A:2937:ASP:OD2	1:A:3982:SER:HB3	2.12	0.48
1:A:4089:ILE:HA	1:A:4092:GLN:NE2	2.28	0.48
2:B:287:LYS:HE2	2:B:296:VAL:HG22	1.95	0.48
3:C:157:CYS:SG	3:C:159:ILE:HD11	2.54	0.48
3:C:249:CYS:HB3	3:C:261:ILE:HG13	1.94	0.48
3:C:501:PRO:HD2	3:C:502:ARG:NH2	2.29	0.48
3:C:661:ALA:O	3:C:665:LYS:HG2	2.12	0.48
3:C:667:GLU:HA	3:C:670:GLN:OE1	2.13	0.48
1:F:86:LEU:HB3	1:F:129:ASP:HB3	1.95	0.48
1:F:229:SER:HA	1:F:278:HIS:CE1	2.48	0.48
1:F:237:SER:OG	1:F:238:MET:N	2.44	0.48
1:F:1095:LEU:HA	1:F:1099:PHE:CD2	2.48	0.48
1:F:1096:VAL:HG23	1:F:1141:LYS:NZ	2.25	0.48
1:F:2250:SER:HA	1:F:2291:GLN:NE2	2.28	0.48
1:F:3241:LYS:HA	1:F:3244:ASP:OD2	2.14	0.48
1:F:3263:HIS:O	1:F:3267:LYS:HG3	2.12	0.48
1:F:3568:ILE:HA	1:F:3571:PHE:CD2	2.48	0.48
1:F:3585:PHE:HA	1:F:3613:MET:CE	2.44	0.48
1:F:3739:ILE:HA	1:F:3749:PRO:HA	1.95	0.48
1:F:3817:LEU:HD21	1:F:3825:LYS:HD3	1.94	0.48
1:F:3869:THR:HA	1:F:3872:ARG:NH1	2.29	0.48
1:F:4102:THR:HA	1:F:4105:LYS:NZ	2.29	0.48
2:G:367:PHE:HE1	2:G:431:GLY:HA3	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:394:ARG:HH21	3:H:403:PRO:HB3	1.78	0.48
3:H:678:VAL:O	3:H:682:GLY:N	2.46	0.48
1:A:335:LYS:O	1:A:338:LEU:HG	2.14	0.48
1:A:738:HIS:HA	1:A:776:TRP:NE1	2.27	0.48
1:A:1183:CYS:HA	1:A:1186:LYS:HG2	1.96	0.48
1:A:2494:ASP:O	1:A:2498:ILE:HG12	2.13	0.48
1:A:2587:GLN:N	1:A:2587:GLN:OE1	2.46	0.48
1:A:3029:LYS:HZ3	1:A:3031:TRP:CD1	2.31	0.48
1:A:3963:LEU:HA	1:A:3967:PHE:CE2	2.49	0.48
2:B:335:GLU:HA	2:B:338:LYS:HG2	1.96	0.48
2:B:471:PHE:CE1	2:B:506:LEU:HD21	2.48	0.48
3:C:509:GLN:NE2	3:C:511:HIS:HB3	2.29	0.48
3:C:612:ALA:H	3:C:615:GLN:HE22	1.60	0.48
1:F:12:LEU:HA	1:F:15:LEU:HD12	1.93	0.48
1:F:524:TYR:O	1:F:528:VAL:HG13	2.13	0.48
1:F:723:ASP:C	1:F:725:LEU:H	2.21	0.48
1:F:767:GLU:O	1:F:771:ASN:ND2	2.47	0.48
1:F:786:GLN:HA	1:F:789:TYR:CE2	2.47	0.48
1:F:1648:LEU:O	1:F:1652:ILE:HG12	2.13	0.48
1:F:1664:SER:HA	1:F:1669:PRO:HD3	1.96	0.48
1:F:1782:PHE:O	1:F:1785:ILE:HG12	2.13	0.48
1:F:3008:TRP:HD1	1:F:3011:LEU:HD22	1.78	0.48
1:F:3076:ALA:O	1:F:3080:LEU:HG	2.13	0.48
1:F:3120:LEU:HD21	1:F:3895:GLU:HB3	1.95	0.48
1:F:3737:ARG:HH11	1:F:3805:TRP:CG	2.32	0.48
1:F:4113:ASP:O	1:F:4117:LEU:HG	2.14	0.48
2:G:330:GLU:CD	2:G:332:GLU:H	2.22	0.48
3:H:464:ALA:HB2	3:H:475:ASP:HA	1.94	0.48
6:D:33:DA:H2	7:E:24:DA:C2	2.32	0.48
1:A:14:ARG:NH1	1:A:15:LEU:HG	2.28	0.48
1:A:389:ILE:HD13	1:A:431:TYR:HD2	1.78	0.48
1:A:434:VAL:O	1:A:438:LEU:HG	2.14	0.48
1:A:1041:ILE:HA	1:A:1044:ILE:HB	1.96	0.48
1:A:1071:ASN:ND2	1:A:1073:PHE:HB2	2.27	0.48
1:A:1110:SER:HA	1:A:1113:LEU:HD23	1.96	0.48
1:A:1377:CYS:SG	1:A:1378:GLU:N	2.87	0.48
1:A:1558:TYR:O	1:A:1562:LEU:HG	2.13	0.48
1:A:1897:ASN:O	1:A:1911:LEU:HG	2.13	0.48
1:A:2852:PRO:HG2	1:A:2853:PRO:HD3	1.96	0.48
1:A:3302:LYS:HD2	1:A:3305:SER:OG	2.13	0.48
1:A:3700:GLU:OE2	1:A:3717:VAL:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3988:LEU:HA	1:A:3991:PHE:CD2	2.49	0.48
2:B:350:PHE:HB2	3:C:461:MET:O	2.13	0.48
3:C:216:GLU:HB3	3:C:219:ASP:HB3	1.95	0.48
1:F:295:GLU:OE2	1:F:296:VAL:HG13	2.13	0.48
1:F:305:ASN:OD1	1:F:307:GLU:HB3	2.13	0.48
1:F:926:THR:HG23	1:F:2800:ARG:NH2	2.25	0.48
1:F:1847:ALA:HA	1:F:1873:TYR:CD2	2.48	0.48
1:F:2314:GLU:OE2	1:F:2318:ALA:HB2	2.14	0.48
1:F:2586:PHE:HB2	1:F:2776:ARG:NE	2.28	0.48
1:F:3443:PRO:HG2	1:F:3475:TYR:CZ	2.49	0.48
1:F:3495:PHE:HA	1:F:3498:TRP:HD1	1.78	0.48
1:F:3797:THR:HB	1:F:3800:LEU:HB3	1.95	0.48
2:G:82:LEU:HD11	2:G:108:LEU:C	2.38	0.48
2:G:264:ASN:HD21	3:H:534:LYS:HZ1	1.60	0.48
2:G:299:LYS:H	3:H:293:THR:HG23	1.78	0.48
3:H:313:GLY:CA	3:H:322:PRO:HA	2.43	0.48
1:A:143:LEU:HD12	1:A:144:MET:SD	2.54	0.48
1:A:459:ARG:NH1	1:A:540:MET:SD	2.87	0.48
1:A:746:ARG:HB3	1:A:788:TYR:CE1	2.48	0.48
1:A:895:ALA:N	1:A:904:VAL:HG23	2.28	0.48
1:A:1146:ASN:O	1:A:1164:CYS:HB2	2.14	0.48
1:A:1176:CYS:C	1:A:1178:ARG:H	2.21	0.48
1:A:1361:LYS:HE3	1:A:1411:TYR:CZ	2.48	0.48
1:A:1887:ASP:O	1:A:1890:HIS:NE2	2.46	0.48
1:A:2210:VAL:HG23	1:A:2211:LEU:HG	1.96	0.48
1:A:2543:ASN:ND2	1:A:2836:LEU:HD11	2.29	0.48
1:A:3513:ALA:C	1:A:3515:GLN:N	2.70	0.48
2:B:285:PRO:HB3	3:C:314:PHE:HE1	1.79	0.48
3:C:511:HIS:CE1	3:C:515:MET:HE2	2.48	0.48
1:F:410:MET:HA	1:F:413:PHE:CD2	2.42	0.48
1:F:741:ILE:HD11	1:F:776:TRP:CD1	2.49	0.48
1:F:1098:GLN:NE2	1:F:1151:ARG:HG3	2.28	0.48
1:F:1656:ASP:HB2	1:F:1660:SER:OG	2.14	0.48
1:F:2197:THR:H	1:F:5009:UNK:H2	1.60	0.48
1:F:2313:LYS:HA	1:F:2316:TYR:CE1	2.48	0.48
1:F:2324:GLY:CA	1:F:2367:VAL:HG23	2.43	0.48
1:F:2382:VAL:O	1:F:2386:LEU:N	2.47	0.48
1:F:2410:GLU:O	1:F:2414:GLN:NE2	2.46	0.48
1:F:3029:LYS:HG3	1:F:3074:GLN:CD	2.39	0.48
1:F:3295:GLU:O	1:F:3299:THR:HG23	2.13	0.48
1:F:3443:PRO:HG2	1:F:3475:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3940:ILE:HG22	1:F:3941:ASP:H	1.78	0.48
1:F:3981:TYR:HD1	1:F:4108:MET:HE1	1.77	0.48
3:H:106:ASP:CG	3:H:143:SER:H	2.22	0.48
3:H:232:ARG:HD2	3:H:477:PHE:CE1	2.49	0.48
3:H:600:VAL:O	3:H:604:GLN:HG2	2.13	0.48
3:H:708:LYS:HE3	3:H:710:LYS:HB2	1.96	0.48
1:A:211:ALA:CB	1:A:215:PRO:HB2	2.44	0.48
1:A:303:HIS:H	1:A:309:LYS:HE3	1.79	0.48
1:A:575:ILE:O	1:A:578:LYS:HB3	2.13	0.48
1:A:605:THR:HG22	1:A:607:ASP:H	1.77	0.48
1:A:752:LEU:HD12	1:A:753:GLN:N	2.28	0.48
1:A:890:LYS:HE2	1:A:906:PHE:CD2	2.48	0.48
1:A:898:PHE:HE2	1:A:903:PRO:HD2	1.77	0.48
1:A:1061:LYS:HA	1:A:1064:TYR:HD2	1.79	0.48
1:A:1935:GLU:HA	1:A:1938:ARG:HG2	1.95	0.48
1:A:2518:GLN:O	1:A:2522:ARG:N	2.32	0.48
1:A:2771:LEU:HB3	1:A:2775:TYR:CE2	2.48	0.48
1:A:3136:THR:O	1:A:3139:GLN:NE2	2.45	0.48
1:A:3321:LEU:O	1:A:3324:ARG:HG3	2.13	0.48
1:A:3480:LEU:C	1:A:3482:LEU:H	2.21	0.48
1:A:3513:ALA:C	1:A:3515:GLN:H	2.22	0.48
1:A:3823:GLU:HG2	1:A:3824:GLU:H	1.78	0.48
1:A:3971:MET:HG3	1:A:3974:MET:SD	2.53	0.48
3:C:64:THR:HB	3:C:76:ASN:N	2.29	0.48
3:C:442:LYS:HG3	3:C:443:LYS:HD3	1.95	0.48
1:F:638:GLN:HE22	1:F:640:GLU:HB3	1.79	0.48
1:F:683:PHE:HE1	1:F:700:LYS:HB3	1.77	0.48
1:F:892:LEU:HD13	1:F:944:LYS:HG3	1.96	0.48
1:F:1971:PRO:C	1:F:1973:LYS:H	2.20	0.48
1:F:2155:GLU:HA	1:F:2158:ARG:HG2	1.96	0.48
1:F:3006:ALA:HA	1:F:3008:TRP:CH2	2.49	0.48
1:F:3103:ILE:O	1:F:3106:GLY:N	2.47	0.48
1:F:3531:TYR:HB2	1:F:3532:PRO:HD3	1.95	0.48
1:F:3644:PHE:HA	1:F:3653:ARG:NH1	2.29	0.48
1:F:3835:PRO:HA	1:F:3839:TYR:HD2	1.79	0.48
1:F:3862:ALA:HB3	1:F:4119:ARG:HE	1.78	0.48
1:F:4085:LYS:HG3	1:F:4092:GLN:HG2	1.96	0.48
2:G:72:ILE:HA	2:G:75:ILE:HD12	1.96	0.48
3:H:552:GLU:CG	3:H:553:ILE:H	2.22	0.48
1:A:213:ARG:HB3	1:A:214:GLU:OE1	2.14	0.48
1:A:373:CYS:SG	1:A:381:VAL:HG12	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:380:ASP:HB3	3:C:574:ALA:O	2.13	0.48
1:A:723:ASP:C	1:A:725:LEU:H	2.22	0.48
1:A:1745:LYS:HA	1:A:1748:ASP:OD2	2.13	0.48
1:A:2216:LEU:O	1:A:2219:LEU:HB2	2.14	0.48
1:A:2412:TYR:HE1	1:A:2454:LEU:HD21	1.78	0.48
1:A:2512:ASP:OD2	1:A:2518:GLN:HG2	2.13	0.48
1:A:2773:ARG:NH1	1:A:2775:TYR:HA	2.28	0.48
1:A:3005:LEU:HA	1:A:3254:LEU:HD13	1.96	0.48
1:A:3897:PHE:O	1:A:3901:ARG:HG2	2.14	0.48
2:B:82:LEU:HD11	2:B:108:LEU:C	2.39	0.48
2:B:332:GLU:HA	2:B:335:GLU:HG2	1.95	0.48
2:B:483:LEU:HG	2:B:487:PHE:CE2	2.46	0.48
3:C:558:HIS:CD2	3:C:559:GLU:HG3	2.49	0.48
1:F:289:ASN:OD1	1:F:292:SER:HB2	2.14	0.48
1:F:746:ARG:HA	1:F:749:VAL:HG13	1.95	0.48
1:F:1731:PRO:HA	1:F:1736:PHE:CD2	2.48	0.48
1:F:1801:VAL:HA	1:F:1804:MET:CE	2.43	0.48
1:F:2228:ARG:HG2	1:F:2232:ARG:HH22	1.77	0.48
1:F:3059:GLN:OE1	1:F:3063:THR:OG1	2.31	0.48
1:F:3148:GLN:O	1:F:3151:LEU:HG	2.14	0.48
1:F:3707:GLY:O	1:F:3708:ARG:NE	2.47	0.48
1:F:4084:SER:OG	1:F:4086:ASP:OD1	2.30	0.48
2:G:263:LEU:HD12	2:G:267:ILE:HD11	1.95	0.48
2:G:365:SER:HB2	2:G:435:VAL:HG12	1.95	0.48
3:H:11:VAL:HA	3:H:55:ALA:HB3	1.96	0.48
3:H:76:ASN:HB2	3:H:105:ALA:HB2	1.94	0.48
1:A:478:CYS:O	1:A:482:VAL:HG13	2.14	0.47
1:A:558:GLU:O	1:A:560:LEU:N	2.47	0.47
1:A:2105:HIS:ND1	1:A:2156:VAL:HG22	2.29	0.47
1:A:2174:SER:OG	1:A:2214:ARG:HG2	2.14	0.47
1:A:2225:HIS:HB2	1:A:2231:PHE:CB	2.45	0.47
1:A:2314:GLU:HA	1:A:2317:ALA:HB3	1.96	0.47
1:A:2808:LEU:O	1:A:2811:SER:OG	2.27	0.47
1:A:2851:PHE:HD2	1:A:2854:PHE:HB2	1.79	0.47
1:A:3007:GLU:OE2	1:A:3009:LYS:HB2	2.13	0.47
1:A:3031:TRP:O	1:A:3038:GLU:HG3	2.14	0.47
1:A:3083:SER:HA	1:A:3086:LEU:HB3	1.95	0.47
1:A:3103:ILE:O	1:A:3107:ILE:HG12	2.14	0.47
1:A:3530:VAL:HG22	1:A:3534:ILE:HD11	1.95	0.47
2:B:389:CYS:SG	2:B:415:PRO:HB2	2.54	0.47
3:C:131:HIS:NE2	3:C:239:LYS:HG2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:262:ALA:N	3:C:365:PHE:O	2.33	0.47
3:C:612:ALA:H	3:C:615:GLN:NE2	2.12	0.47
1:F:738:HIS:HA	1:F:776:TRP:NE1	2.29	0.47
1:F:749:VAL:O	1:F:753:GLN:NE2	2.43	0.47
1:F:862:LEU:O	1:F:3167:ARG:NH2	2.47	0.47
1:F:1266:CYS:O	1:F:1269:THR:HG22	2.14	0.47
1:F:1367:HIS:CD2	1:F:1371:VAL:HG11	2.49	0.47
1:F:1785:ILE:N	1:F:1830:HIS:HE1	2.11	0.47
1:F:2149:LEU:O	1:F:2153:THR:N	2.47	0.47
1:F:2466:SER:C	1:F:2468:THR:H	2.22	0.47
1:F:2508:GLN:HA	1:F:2550:ILE:HD11	1.95	0.47
1:F:3232:ARG:NH2	1:F:3265:GLU:O	2.46	0.47
1:F:3486:GLU:C	1:F:3488:SER:N	2.71	0.47
1:F:3503:VAL:HG11	1:F:3532:PRO:HB3	1.95	0.47
1:F:3931:ALA:HB1	1:F:3933:GLU:CD	2.39	0.47
1:F:3966:GLN:O	1:F:3969:ASN:HB2	2.14	0.47
2:G:376:ILE:HB	3:H:540:ILE:HG21	1.95	0.47
2:G:533:ASP:HA	3:H:260:ARG:CZ	2.44	0.47
3:H:39:THR:HG21	3:H:95:GLU:HB2	1.95	0.47
3:H:111:LEU:HD13	3:H:150:ILE:HD13	1.96	0.47
7:E:27:DC:H2'	7:E:28:DT:H6	1.78	0.47
1:A:360:SER:HA	1:A:363:ILE:HG12	1.96	0.47
1:A:378:ALA:O	1:A:381:VAL:HG22	2.14	0.47
1:A:407:VAL:C	1:A:449:TYR:CE2	2.91	0.47
1:A:565:TYR:HA	1:A:568:PHE:HD2	1.80	0.47
1:A:1066:LEU:O	1:A:1074:LYS:HB3	2.15	0.47
1:A:1244:LEU:HD11	1:A:1248:PHE:HA	1.96	0.47
1:A:1344:PHE:O	1:A:1347:THR:OG1	2.21	0.47
1:A:2803:ILE:H	1:A:2803:ILE:HD12	1.79	0.47
1:A:2804:ILE:O	1:A:2808:LEU:HG	2.14	0.47
1:A:2930:TYR:O	1:A:2934:GLY:N	2.44	0.47
1:A:3008:TRP:HB2	1:A:3051:LEU:HG	1.97	0.47
1:A:3450:MET:CE	1:A:3468:LEU:HD22	2.43	0.47
1:A:3631:LYS:HZ1	1:A:3635:THR:HB	1.79	0.47
1:A:3820:MET:O	1:A:3822:GLN:N	2.46	0.47
2:B:297:LYS:NZ	3:C:294:VAL:HG23	2.27	0.47
2:B:301:ARG:HH21	2:B:310:LEU:HD11	1.79	0.47
2:B:413:LEU:HD21	2:B:432:PHE:HD1	1.79	0.47
3:C:131:HIS:CE1	3:C:239:LYS:HE3	2.49	0.47
3:C:168:SER:OG	3:C:226:SER:N	2.39	0.47
1:F:560:LEU:HA	1:F:563:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:649:PHE:CE2	1:F:673:THR:HG21	2.48	0.47
1:F:871:LEU:O	1:F:873:VAL:HG22	2.14	0.47
1:F:1337:VAL:O	1:F:1341:ILE:HG12	2.14	0.47
1:F:1367:HIS:CE1	1:F:1371:VAL:HG21	2.48	0.47
1:F:1837:ARG:NE	1:F:1888:ASP:OD2	2.46	0.47
1:F:2100:LEU:O	1:F:2104:MET:HG2	2.13	0.47
1:F:2412:TYR:HE2	1:F:2450:GLU:OE1	1.97	0.47
1:F:2527:HIS:HB3	1:F:2530:ARG:NH1	2.28	0.47
1:F:3139:GLN:HA	1:F:3142:ILE:HD12	1.95	0.47
1:F:3170:ASP:OD2	1:F:3173:MET:HG2	2.14	0.47
1:F:3701:ILE:HG13	1:F:3719:ILE:HG13	1.96	0.47
1:F:3759:ARG:HG3	1:F:3760:GLN:H	1.78	0.47
1:F:3924:HIS:CD2	1:F:3926:ASN:HB2	2.49	0.47
1:F:4074:PHE:O	1:F:4078:VAL:HG23	2.13	0.47
2:G:410:PHE:HB2	2:G:439:PHE:HE1	1.79	0.47
1:A:340:TYR:O	1:A:343:GLU:HG3	2.14	0.47
1:A:472:GLY:N	1:A:473:PRO:HD2	2.29	0.47
1:A:911:LEU:O	1:A:915:THR:HG23	2.15	0.47
1:A:1055:ASN:HD21	1:A:1057:LYS:HE2	1.80	0.47
1:A:1651:LYS:O	1:A:1654:GLN:N	2.47	0.47
1:A:3027:LEU:O	1:A:3064:PHE:HD1	1.97	0.47
1:A:3072:GLU:CG	1:A:3073:LEU:H	2.20	0.47
1:A:3572:ILE:HA	1:A:3575:LEU:HD12	1.96	0.47
1:A:3586:LYS:NZ	1:A:3671:ASN:HB3	2.29	0.47
1:A:3971:MET:HG2	1:A:3976:GLU:HA	1.96	0.47
3:C:450:GLN:O	3:C:454:VAL:HG23	2.14	0.47
3:C:605:LYS:HB3	3:C:609:PHE:CD2	2.49	0.47
1:F:292:SER:O	1:F:296:VAL:HG22	2.14	0.47
1:F:337:LYS:O	1:F:341:PHE:N	2.44	0.47
1:F:678:LYS:HE2	1:F:678:LYS:HA	1.96	0.47
1:F:855:VAL:O	1:F:859:LEU:HG	2.14	0.47
1:F:866:ILE:O	1:F:869:ASN:ND2	2.37	0.47
1:F:913:ARG:CZ	1:F:2803:ILE:HG21	2.44	0.47
1:F:1081:ALA:O	1:F:1085:ILE:HG12	2.14	0.47
1:F:1103:ALA:O	1:F:1106:ILE:HG22	2.15	0.47
1:F:1326:GLU:HG3	1:F:1329:ARG:NH2	2.28	0.47
1:F:1529:VAL:CG1	1:F:1581:GLU:HB2	2.44	0.47
1:F:1614:GLN:H	1:F:1614:GLN:CD	2.21	0.47
1:F:1626:TRP:HE1	1:F:1627:LYS:NZ	2.12	0.47
1:F:1791:CYS:HB2	1:F:1835:ALA:HB2	1.97	0.47
1:F:2492:ASP:O	1:F:2496:GLN:NE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2942:ILE:O	1:F:2946:GLU:N	2.31	0.47
1:F:2976:LEU:O	1:F:2979:GLN:NE2	2.48	0.47
1:F:3164:TRP:HB3	1:F:3186:ARG:NH2	2.25	0.47
1:F:3176:MET:HA	1:F:3179:TRP:HD1	1.76	0.47
1:F:3455:LYS:HA	1:F:3491:PRO:HD3	1.96	0.47
1:F:3772:ASN:OD1	1:F:3788:LEU:HB3	2.14	0.47
1:F:3929:MET:N	1:F:3929:MET:SD	2.87	0.47
1:F:4014:LYS:O	1:F:4018:GLN:HG2	2.14	0.47
2:G:273:ILE:HA	2:G:368:VAL:HA	1.97	0.47
2:G:350:PHE:CD2	3:H:458:ILE:HA	2.49	0.47
2:G:350:PHE:HD2	3:H:458:ILE:HA	1.79	0.47
3:H:481:LYS:O	3:H:481:LYS:HD3	2.14	0.47
3:H:647:ILE:HG12	3:H:652:GLU:HA	1.95	0.47
1:A:374:LYS:HZ1	1:A:424:LEU:HA	1.79	0.47
1:A:396:PHE:CZ	1:A:406:ARG:HB2	2.49	0.47
1:A:573:LEU:O	1:A:576:VAL:N	2.47	0.47
1:A:1020:PRO:HA	1:A:1073:PHE:CD1	2.49	0.47
1:A:1425:ALA:HB2	1:A:1467:ILE:HG13	1.95	0.47
1:A:1886:LYS:HE3	1:A:1955:VAL:HG23	1.94	0.47
1:A:2471:GLU:HA	1:A:2474:TYR:CD2	2.49	0.47
1:A:3090:TYR:HB3	1:A:3099:ALA:HB2	1.96	0.47
1:A:3538:GLU:OE1	1:A:3538:GLU:N	2.48	0.47
2:B:289:TYR:HB3	2:B:293:ASN:H	1.79	0.47
2:B:312:LEU:HB2	2:B:315:ASP:CG	2.40	0.47
1:F:849:GLU:O	1:F:853:ILE:HG13	2.14	0.47
1:F:1840:PHE:O	1:F:1844:VAL:HG23	2.15	0.47
1:F:2358:ASP:OD1	1:F:2358:ASP:N	2.48	0.47
1:F:2874:ALA:HA	1:F:2925:GLU:OE1	2.14	0.47
1:F:3301:LEU:O	1:F:3305:SER:N	2.47	0.47
1:F:3494:GLN:HB3	1:F:3709:GLY:HA2	1.95	0.47
1:F:3584:LEU:O	1:F:3612:ARG:NH1	2.46	0.47
1:F:4104:VAL:O	1:F:4107:LEU:HB2	2.14	0.47
2:G:322:TYR:HE2	3:H:494:LEU:HD21	1.79	0.47
3:H:509:GLN:NE2	3:H:511:HIS:HB2	2.29	0.47
1:A:295:GLU:HA	1:A:298:LEU:HB3	1.95	0.47
1:A:568:PHE:O	1:A:571:SER:N	2.47	0.47
1:A:2159:PRO:HG2	1:A:2160:TYR:CD1	2.49	0.47
1:A:2269:ASP:C	1:A:2271:SER:H	2.22	0.47
1:A:2587:GLN:O	1:A:2776:ARG:HG3	2.14	0.47
1:A:3036:TYR:HB3	1:A:3040:TYR:CE2	2.48	0.47
3:C:163:PHE:CE1	3:C:212:MET:HG2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:271:ARG:HH21	3:C:273:LYS:HA	1.79	0.47
1:F:289:ASN:O	1:F:293:LEU:HG	2.14	0.47
1:F:327:VAL:HA	1:F:330:ASN:HB3	1.96	0.47
1:F:332:GLU:CD	1:F:334:HIS:HA	2.40	0.47
1:F:1418:HIS:HA	1:F:1421:GLU:CD	2.40	0.47
1:F:1711:ARG:HA	1:F:1714:LEU:HD12	1.95	0.47
1:F:1837:ARG:O	1:F:1841:SER:N	2.37	0.47
1:F:2211:LEU:HB3	1:F:2214:ARG:HH21	1.79	0.47
1:F:2831:ASN:O	1:F:2835:LYS:HG2	2.14	0.47
1:F:3103:ILE:O	1:F:3107:ILE:HD12	2.12	0.47
1:F:3751:LEU:HD22	1:F:3803:ILE:HD11	1.95	0.47
3:H:42:VAL:HG13	3:H:91:LEU:HD22	1.96	0.47
3:H:355:PHE:HD2	3:H:425:PRO:HG2	1.78	0.47
3:H:624:LEU:HD11	3:H:669:LYS:HE3	1.97	0.47
4:J:30:DT:H2'	4:J:31:DT:C4	2.50	0.47
4:J:38:DG:N2	5:I:19:DC:O4'	2.47	0.47
6:D:32:DT:O2	7:E:25:DA:C2	2.67	0.47
1:A:207:GLN:HA	1:A:207:GLN:NE2	2.30	0.47
1:A:288:ASP:N	1:A:288:ASP:OD1	2.46	0.47
1:A:568:PHE:C	1:A:572:VAL:HG23	2.39	0.47
1:A:642:PHE:HE1	1:A:649:PHE:CE2	2.32	0.47
1:A:1024:THR:HA	1:A:1027:ASP:HB2	1.96	0.47
1:A:1416:GLU:O	1:A:1419:LEU:HB3	2.15	0.47
1:A:2350:LYS:HA	1:A:2360:PHE:CZ	2.50	0.47
1:A:2958:LEU:O	1:A:2962:ARG:N	2.36	0.47
1:A:3249:GLN:HE22	1:A:3780:ALA:HA	1.79	0.47
1:A:3677:PRO:HG3	1:A:3736:LYS:HE3	1.96	0.47
1:A:3838:GLU:HB3	1:A:3874:ARG:HD2	1.95	0.47
1:A:3849:LYS:HD2	1:A:3851:ASP:HB2	1.97	0.47
1:A:4007:LYS:HD3	1:A:4044:ILE:HG21	1.96	0.47
2:B:90:THR:H	2:B:101:ASN:HD22	1.62	0.47
2:B:262:LYS:HG3	2:B:345:LEU:O	2.15	0.47
2:B:412:ALA:N	2:B:435:VAL:O	2.47	0.47
1:F:242:PRO:HB3	1:F:246:ARG:NH2	2.28	0.47
1:F:428:PRO:HB2	1:F:430:VAL:HG12	1.95	0.47
1:F:655:LEU:HD21	1:F:659:ARG:HH21	1.78	0.47
1:F:886:TRP:CE2	1:F:964:ARG:HD2	2.50	0.47
1:F:1049:GLN:O	1:F:1055:ASN:ND2	2.47	0.47
1:F:1064:TYR:CE1	1:F:1106:ILE:HG21	2.50	0.47
1:F:1118:GLU:OE2	1:F:1120:SER:OG	2.30	0.47
1:F:1482:GLU:OE1	1:F:1482:GLU:N	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1978:PHE:O	1:F:1979:GLU:HG3	2.15	0.47
1:F:2392:VAL:O	1:F:2396:LEU:HG	2.15	0.47
1:F:2548:PRO:HB2	1:F:2847:THR:HA	1.96	0.47
1:F:2572:TYR:CZ	1:F:2788:SER:HA	2.49	0.47
3:H:605:LYS:HB3	3:H:609:PHE:HZ	1.79	0.47
3:H:623:PHE:CE1	3:H:627:ASN:HA	2.49	0.47
5:I:38:DT:H2"	5:I:39:DA:N7	2.28	0.47
1:A:479:ILE:O	1:A:483:VAL:HG12	2.14	0.47
1:A:493:LYS:HG3	1:A:494:PRO:HD2	1.97	0.47
1:A:531:PHE:CE2	1:A:633:ILE:HD13	2.49	0.47
1:A:966:PHE:HA	1:A:969:LEU:HB3	1.96	0.47
1:A:1013:ILE:O	1:A:1017:ILE:HG12	2.15	0.47
1:A:1034:ARG:HG3	1:A:1088:GLU:HG2	1.96	0.47
1:A:1136:ARG:HG3	1:A:1140:LYS:NZ	2.30	0.47
1:A:1212:LEU:HA	1:A:1219:PHE:CG	2.50	0.47
1:A:1235:ILE:HG13	1:A:1259:LEU:HB3	1.96	0.47
1:A:1371:VAL:O	1:A:1375:THR:HG23	2.13	0.47
1:A:1748:ASP:OD1	1:A:1749:ALA:N	2.47	0.47
1:A:1802:TYR:CD2	1:A:1806:ARG:NH1	2.82	0.47
1:A:2420:PHE:HZ	1:A:2435:CYS:HB3	1.80	0.47
1:A:2466:SER:C	1:A:2468:THR:H	2.23	0.47
1:A:3002:TYR:HB3	1:A:3011:LEU:CD1	2.45	0.47
1:A:3075:LYS:HA	1:A:3078:LEU:HB2	1.96	0.47
1:A:3160:LEU:HG	1:A:3164:TRP:CZ3	2.50	0.47
1:A:3294:SER:O	1:A:3298:LEU:HG	2.15	0.47
1:A:3480:LEU:C	1:A:3482:LEU:N	2.73	0.47
1:A:3729:MET:SD	1:A:3735:PRO:HG2	2.55	0.47
1:A:3729:MET:CE	1:A:3737:ARG:CB	2.79	0.47
1:A:3736:LYS:O	1:A:3751:LEU:HA	2.14	0.47
1:A:3768:PHE:HD2	1:A:3790:THR:HG21	1.78	0.47
1:A:4013:TRP:HB2	1:A:4038:TRP:CG	2.49	0.47
1:A:4089:ILE:HA	1:A:4092:GLN:HE22	1.78	0.47
1:A:4089:ILE:HD13	1:A:4092:GLN:HE22	1.79	0.47
2:B:317:LYS:NZ	2:B:328:ILE:O	2.47	0.47
3:C:56:LEU:HD23	3:C:80:HIS:HB3	1.97	0.47
3:C:616:LEU:HD13	3:C:619:HIS:CE1	2.49	0.47
1:F:111:CYS:O	1:F:115:TYR:HB2	2.15	0.47
1:F:483:VAL:HG21	1:F:567:GLU:HB2	1.97	0.47
1:F:540:MET:O	1:F:544:ILE:HG12	2.14	0.47
1:F:566:ASP:C	1:F:570:LYS:HZ3	2.22	0.47
1:F:744:ASP:OD1	1:F:747:ALA:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1374:GLN:HG3	1:F:1422:LYS:HE2	1.96	0.47
1:F:1565:GLU:OE1	1:F:1565:GLU:N	2.38	0.47
1:F:1614:GLN:O	1:F:1618:LEU:HD23	2.14	0.47
1:F:1807:LYS:C	1:F:1816:ARG:HH12	2.21	0.47
1:F:1850:VAL:HG22	1:F:1870:LYS:HG2	1.95	0.47
1:F:2216:LEU:HA	1:F:2219:LEU:HD12	1.96	0.47
1:F:2230:VAL:HA	1:F:2233:HIS:HB2	1.97	0.47
1:F:2243:GLU:OE1	1:F:2283:ASN:ND2	2.48	0.47
1:F:2494:ASP:HA	1:F:2497:GLU:OE2	2.13	0.47
1:F:2928:LYS:HA	1:F:2931:ARG:HG2	1.96	0.47
1:F:2938:VAL:O	1:F:2942:ILE:HG12	2.14	0.47
1:F:3081:HIS:HB2	1:F:3082:TYR:CZ	2.49	0.47
1:F:3954:PRO:HD3	1:F:4027:TRP:HZ3	1.80	0.47
1:F:4055:ASN:HB3	1:F:4058:VAL:HG23	1.96	0.47
1:F:4099:SER:O	1:F:4103:GLN:HG3	2.14	0.47
5:I:30:DA:C6	5:I:31:DA:N6	2.82	0.47
1:A:14:ARG:O	1:A:18:THR:HG23	2.15	0.47
1:A:410:MET:HA	1:A:413:PHE:HD2	1.78	0.47
1:A:750:PRO:O	1:A:754:MET:HG2	2.14	0.47
1:A:1223:THR:C	1:A:1225:GLU:H	2.22	0.47
1:A:3772:ASN:O	1:A:3775:LEU:HB3	2.14	0.47
1:A:3775:LEU:HD21	1:A:3786:LEU:O	2.15	0.47
1:A:3789:ARG:HH22	1:A:3791:TYR:N	2.13	0.47
1:A:3913:ILE:HB	1:A:3984:MET:SD	2.55	0.47
1:A:4045:CYS:O	1:A:4049:ARG:HG2	2.15	0.47
2:B:85:VAL:HG22	2:B:106:GLN:HG3	1.97	0.47
2:B:350:PHE:CE2	3:C:458:ILE:HA	2.49	0.47
3:C:496:HIS:CE1	3:C:507:PRO:HD3	2.50	0.47
3:C:651:GLU:HB3	3:C:654:ARG:HG2	1.97	0.47
3:C:666:VAL:HG23	3:C:675:TRP:HD1	1.79	0.47
1:F:87:LYS:O	1:F:91:ILE:HG12	2.15	0.47
1:F:797:ASP:N	1:F:797:ASP:OD1	2.46	0.47
1:F:1515:LEU:HD12	1:F:1519:PHE:HE2	1.79	0.47
1:F:1583:MET:O	1:F:1586:SER:OG	2.29	0.47
1:F:1772:HIS:CD2	1:F:1773:VAL:HG13	2.50	0.47
1:F:2299:TYR:O	1:F:2303:LEU:HG	2.15	0.47
1:F:3100:LYS:HA	1:F:3103:ILE:HD12	1.96	0.47
1:F:3123:GLN:O	1:F:3126:LEU:HB2	2.14	0.47
1:F:3465:PHE:HE2	1:F:3501:HIS:CB	2.28	0.47
1:F:3965:ARG:HG3	1:F:3969:ASN:OD1	2.15	0.47
3:H:106:ASP:HB3	3:H:109:ASP:CG	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:ILE:HG22	1:A:133:LYS:HZ3	1.80	0.47
1:A:175:TYR:HB3	1:A:227:LEU:CD1	2.41	0.47
1:A:243:GLN:CG	1:A:246:ARG:HH21	2.27	0.47
1:A:327:VAL:C	1:A:329:LYS:N	2.70	0.47
1:A:410:MET:HA	1:A:413:PHE:CD2	2.50	0.47
1:A:485:GLN:O	1:A:489:ARG:HG2	2.15	0.47
1:A:710:PHE:HA	1:A:713:GLU:OE2	2.15	0.47
1:A:712:LYS:HE2	1:A:712:LYS:HA	1.97	0.47
1:A:785:MET:CB	1:A:789:TYR:HE1	2.27	0.47
1:A:1257:LEU:HD13	1:A:1333:SER:HB2	1.97	0.47
1:A:3001:CYS:HA	1:A:3004:HIS:HB2	1.96	0.47
1:A:3588:TRP:O	1:A:3592:VAL:HG23	2.15	0.47
1:A:3810:VAL:H	1:A:3930:VAL:H	1.61	0.47
1:A:3932:MET:SD	1:A:3932:MET:N	2.88	0.47
2:B:48:MET:HA	2:B:59:PRO:HG2	1.96	0.47
2:B:161:MET:CE	2:B:164:LYS:HB3	2.45	0.47
3:C:74:TYR:CD1	3:C:113:VAL:HG22	2.50	0.47
3:C:626:THR:HG23	3:C:632:PHE:CD2	2.50	0.47
1:F:105:VAL:HA	1:F:108:LYS:HZ3	1.80	0.47
1:F:249:PHE:O	1:F:252:VAL:HB	2.15	0.47
1:F:564:LEU:O	1:F:568:PHE:HD2	1.98	0.47
1:F:790:LYS:HA	1:F:869:ASN:HB3	1.95	0.47
1:F:925:GLN:HB2	1:F:2800:ARG:NH1	2.30	0.47
1:F:1582:LEU:HD12	1:F:1593:VAL:HG12	1.96	0.47
1:F:1732:GLY:HA2	1:F:1737:ASN:HD21	1.80	0.47
1:F:1848:ILE:HD13	1:F:1899:VAL:HG12	1.96	0.47
1:F:1922:ALA:HB1	1:F:1940:TYR:HE2	1.79	0.47
1:F:2402:LEU:HD12	1:F:2438:ILE:HG13	1.96	0.47
1:F:3029:LYS:HZ2	1:F:3073:LEU:HD21	1.80	0.47
1:F:3759:ARG:NH2	1:F:4015:ASN:HB3	2.30	0.47
2:G:306:SER:N	3:H:288:ASP:OD1	2.48	0.47
3:H:234:LEU:HD11	3:H:483:PRO:HG3	1.97	0.47
1:A:193:ALA:HB1	1:A:197:PHE:CZ	2.50	0.47
1:A:322:GLN:C	1:A:324:SER:H	2.21	0.47
1:A:331:ALA:O	1:A:335:LYS:N	2.48	0.47
1:A:438:LEU:C	1:A:442:GLN:HE22	2.22	0.47
1:A:456:VAL:HA	1:A:459:ARG:HG3	1.97	0.47
1:A:1089:PHE:CE2	1:A:1096:VAL:HG12	2.50	0.47
1:A:1090:ARG:HA	1:A:1137:ILE:HD11	1.96	0.47
1:A:1329:ARG:HA	1:A:1329:ARG:NE	2.30	0.47
1:A:1364:CYS:HA	1:A:1368:LEU:HD23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1890:HIS:O	1:A:1895:LYS:HB2	2.16	0.47
1:A:2092:GLU:OE1	1:A:2092:GLU:N	2.47	0.47
1:A:2102:LYS:O	1:A:2106:ARG:HG2	2.15	0.47
1:A:2300:PHE:O	1:A:2303:LEU:HB2	2.15	0.47
1:A:2530:ARG:HG3	1:A:2531:LEU:CD1	2.45	0.47
1:A:2939:LEU:C	1:A:2942:ILE:HG22	2.39	0.47
1:A:3693:GLU:OE2	1:A:3696:ARG:HD3	2.15	0.47
1:A:3737:ARG:CA	1:A:3751:LEU:HD13	2.45	0.47
1:A:3945:ALA:O	1:A:3947:GLY:N	2.48	0.47
1:A:3987:ALA:HB1	1:A:3991:PHE:CZ	2.50	0.47
1:A:4021:LEU:HD12	1:A:4022:LYS:N	2.30	0.47
2:B:238:LYS:O	2:B:242:LEU:HG	2.14	0.47
2:B:385:LEU:HD12	2:B:388:LYS:HB3	1.96	0.47
3:C:130:ARG:HB3	3:C:159:ILE:HG23	1.97	0.47
3:C:293:THR:HG22	3:C:295:TYR:HE1	1.79	0.47
3:C:413:LYS:HG2	3:C:414:HIS:N	2.30	0.47
1:F:763:THR:N	1:F:764:PRO:HD2	2.30	0.47
1:F:1104:LEU:O	1:F:1108:MET:HG2	2.15	0.47
1:F:1558:TYR:CE2	1:F:1562:LEU:HD11	2.50	0.47
1:F:1639:LEU:O	1:F:1643:MET:HE3	2.15	0.47
1:F:2157:PHE:O	1:F:2160:TYR:N	2.47	0.47
1:F:2406:GLU:OE1	1:F:2406:GLU:N	2.43	0.47
1:F:2803:ILE:H	1:F:2803:ILE:HD12	1.80	0.47
1:F:2889:GLY:O	1:F:2892:LEU:HB3	2.15	0.47
1:F:3027:LEU:O	1:F:3067:LYS:NZ	2.37	0.47
1:F:3153:SER:O	1:F:3156:PRO:HD2	2.15	0.47
3:H:56:LEU:HD23	3:H:81:ARG:HB2	1.97	0.47
3:H:271:ARG:H	3:H:273:LYS:NZ	2.13	0.47
3:H:675:TRP:HA	3:H:678:VAL:HB	1.97	0.47
1:A:81:CYS:HA	1:A:84:GLU:OE2	2.15	0.46
1:A:81:CYS:O	1:A:85:ILE:HG12	2.16	0.46
1:A:101:ALA:O	1:A:104:SER:N	2.48	0.46
1:A:279:ALA:O	1:A:322:GLN:NE2	2.48	0.46
1:A:345:PHE:O	1:A:349:ILE:HG22	2.15	0.46
1:A:1107:TYR:CZ	1:A:1130:ALA:HB3	2.50	0.46
1:A:1142:HIS:CE1	1:A:1146:ASN:HD21	2.33	0.46
1:A:1837:ARG:O	1:A:1840:PHE:HB3	2.15	0.46
1:A:2196:TRP:HB2	1:A:2199:LEU:HB2	1.97	0.46
1:A:2273:GLY:O	1:A:2276:LEU:HB3	2.15	0.46
1:A:3001:CYS:O	1:A:3005:LEU:N	2.48	0.46
1:A:3999:THR:HA	1:A:4002:MET:HE2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4013:TRP:HB2	1:A:4038:TRP:CD2	2.50	0.46
3:C:335:SER:OG	3:C:398:ASP:O	2.29	0.46
1:F:216:LYS:HB3	1:F:219:VAL:HB	1.97	0.46
1:F:266:ALA:HB2	1:F:305:ASN:HD21	1.80	0.46
1:F:338:LEU:O	1:F:341:PHE:HB3	2.15	0.46
1:F:575:ILE:O	1:F:579:LEU:HD23	2.15	0.46
1:F:656:GLN:HA	1:F:659:ARG:HD2	1.98	0.46
1:F:1141:LYS:O	1:F:1141:LYS:HG3	2.14	0.46
1:F:1395:LEU:N	1:F:1396:PRO:HD3	2.30	0.46
1:F:1406:LEU:HD13	1:F:1415:LEU:HD21	1.96	0.46
1:F:2253:TYR:HE2	1:F:2289:ASP:H	1.62	0.46
1:F:2295:GLN:HG3	1:F:2297:SER:OG	2.14	0.46
1:F:2474:TYR:O	1:F:2478:MET:HG3	2.14	0.46
1:F:3749:PRO:O	1:F:3805:TRP:HB3	2.15	0.46
1:F:3771:MET:O	1:F:3775:LEU:HG	2.15	0.46
3:H:68:LEU:HD22	3:H:116:ASP:OD2	2.15	0.46
3:H:232:ARG:HH12	3:H:519:PRO:HD3	1.80	0.46
3:H:726:ASP:HA	3:H:729:LEU:HD12	1.97	0.46
1:A:254:LYS:O	1:A:258:PRO:HD3	2.15	0.46
1:A:465:PHE:CE1	1:A:482:VAL:HG21	2.50	0.46
1:A:740:ILE:HG13	1:A:741:ILE:N	2.30	0.46
1:A:785:MET:HB3	1:A:789:TYR:HE1	1.80	0.46
1:A:849:GLU:O	1:A:853:ILE:N	2.39	0.46
1:A:1038:LYS:HZ2	1:A:1039:TRP:CD1	2.34	0.46
1:A:1653:LEU:HG	1:A:1698:PHE:HD2	1.80	0.46
1:A:2894:GLU:O	1:A:2898:LEU:HG	2.15	0.46
1:A:3190:LEU:O	1:A:3193:ILE:HG12	2.15	0.46
1:A:3559:LYS:HG2	1:A:3564:GLN:OE1	2.16	0.46
1:A:3667:LEU:O	1:A:3671:ASN:ND2	2.48	0.46
1:A:3700:GLU:HG2	1:A:3717:VAL:C	2.40	0.46
1:A:4047:ALA:HA	1:A:4050:LYS:HG2	1.96	0.46
1:F:13:LEU:O	1:F:16:GLN:HG3	2.16	0.46
1:F:449:TYR:HB3	1:F:453:MET:SD	2.55	0.46
1:F:915:THR:O	1:F:919:LEU:HG	2.15	0.46
1:F:2924:VAL:O	1:F:2928:LYS:HG2	2.15	0.46
1:F:3121:LEU:HB3	1:F:3124:SER:OG	2.15	0.46
1:F:3379:GLN:O	1:F:3382:PHE:HB3	2.15	0.46
1:F:3668:LEU:O	1:F:3672:LYS:NZ	2.41	0.46
2:G:130:ARG:NH2	2:G:133:ASP:OD2	2.47	0.46
3:H:23:SER:HB3	3:H:29:SER:HA	1.98	0.46
6:D:16:DA:C6	7:E:42:DA:N1	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:VAL:HG13	1:A:823:GLN:O	2.16	0.46
1:A:341:PHE:O	1:A:345:PHE:HB2	2.15	0.46
1:A:741:ILE:HD13	1:A:776:TRP:CZ2	2.50	0.46
1:A:817:ALA:HA	1:A:820:ARG:HE	1.79	0.46
1:A:857:GLN:CD	1:A:857:GLN:N	2.72	0.46
1:A:2105:HIS:CD2	1:A:2156:VAL:HG13	2.50	0.46
1:A:2414:GLN:HA	2:B:148:TRP:HZ2	1.81	0.46
1:A:2546:TYR:HA	1:A:2554:PHE:HZ	1.81	0.46
1:A:3263:HIS:O	1:A:3267:LYS:HG3	2.15	0.46
1:A:3310:ASN:ND2	1:A:3311:ASN:O	2.48	0.46
1:A:3467:ARG:HA	1:A:3470:GLN:NE2	2.31	0.46
2:B:325:ARG:NH2	2:B:326:GLN:O	2.48	0.46
2:B:365:SER:HB2	2:B:435:VAL:HA	1.96	0.46
3:C:164:PHE:HD1	3:C:225:TYR:H	1.62	0.46
3:C:643:ARG:HB2	3:C:655:PHE:CE1	2.50	0.46
3:C:651:GLU:HA	3:C:653:GLN:NE2	2.31	0.46
1:F:48:PRO:HB2	1:F:840:LEU:HD11	1.97	0.46
1:F:879:MET:SD	1:F:883:TYR:OH	2.61	0.46
1:F:1539:SER:HA	1:F:1551:ILE:O	2.15	0.46
1:F:1646:LEU:HD13	1:F:1649:LEU:HD12	1.96	0.46
1:F:1881:TYR:HB2	1:F:1950:SER:CB	2.45	0.46
1:F:1900:PHE:HB2	1:F:1905:ILE:HG22	1.97	0.46
1:F:2182:ILE:HD12	1:F:2182:ILE:H	1.79	0.46
1:F:2379:MET:O	1:F:2382:VAL:HG12	2.14	0.46
1:F:3554:PHE:HD1	1:F:3557:ARG:NE	2.13	0.46
1:F:3556:ALA:HA	1:F:3559:LYS:NZ	2.29	0.46
1:F:3848:GLY:HA3	1:F:3858:MET:SD	2.55	0.46
2:G:410:PHE:CE2	3:H:482:ILE:HG13	2.49	0.46
3:H:659:LEU:HB3	3:H:688:LYS:NZ	2.31	0.46
1:A:119:ARG:O	1:A:123:CYS:N	2.48	0.46
1:A:789:TYR:CD2	1:A:866:ILE:HG21	2.51	0.46
1:A:965:THR:O	1:A:969:LEU:N	2.45	0.46
1:A:1676:ILE:HG12	1:A:1710:LEU:HD21	1.97	0.46
1:A:1931:ASN:CB	1:A:1937:ARG:HH21	2.28	0.46
1:A:2102:LYS:HZ3	1:A:2106:ARG:HD2	1.81	0.46
1:A:2877:SER:HB2	1:A:2928:LYS:CE	2.43	0.46
1:A:2884:LEU:HA	1:A:2886:GLN:HE22	1.79	0.46
2:B:412:ALA:O	2:B:434:LEU:HD12	2.14	0.46
3:C:18:PHE:N	3:C:101:GLY:O	2.47	0.46
3:C:558:HIS:HD2	3:C:559:GLU:HG3	1.81	0.46
1:F:71:LYS:HG2	1:F:78:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:753:GLN:OE1	1:F:792:ILE:HG13	2.16	0.46
1:F:1071:ASN:HD22	1:F:1074:LYS:NZ	2.12	0.46
1:F:1225:GLU:OE2	1:F:1235:ILE:N	2.48	0.46
1:F:1776:GLU:HG2	1:F:1777:LEU:HD22	1.97	0.46
1:F:2534:ASN:HB3	1:F:2537:ASP:CB	2.46	0.46
1:F:3288:SER:OG	1:F:3992:ARG:NH2	2.49	0.46
1:F:3315:TYR:HD1	1:F:3318:LYS:HB2	1.80	0.46
1:F:3603:LYS:HG2	1:F:3610:TYR:OH	2.15	0.46
1:F:3750:PHE:HA	1:F:3805:TRP:N	2.25	0.46
2:G:122:PHE:C	2:G:127:GLY:HA3	2.41	0.46
2:G:147:LEU:C	2:G:189:LYS:HE2	2.41	0.46
3:H:233:LYS:HA	3:H:481:LYS:HZ2	1.81	0.46
3:H:623:PHE:CE1	3:H:632:PHE:HB3	2.50	0.46
1:A:75:SER:HB3	1:A:78:PHE:HB2	1.98	0.46
1:A:243:GLN:CD	1:A:246:ARG:HH21	2.23	0.46
1:A:623:PHE:O	1:A:627:VAL:HG23	2.15	0.46
1:A:638:GLN:H	1:A:638:GLN:CD	2.20	0.46
1:A:1301:ILE:HG22	1:A:1302:ALA:H	1.79	0.46
1:A:1361:LYS:HA	1:A:1364:CYS:SG	2.56	0.46
1:A:1973:LYS:HB2	1:A:2142:ILE:HD11	1.96	0.46
1:A:2162:LYS:C	1:A:2164:TRP:H	2.24	0.46
1:A:2213:ASN:O	1:A:2216:LEU:HB2	2.15	0.46
1:A:2840:PHE:HA	1:A:2843:PHE:CD2	2.50	0.46
1:A:3097:ASP:N	1:A:3097:ASP:OD1	2.44	0.46
1:A:3574:ALA:HB2	1:A:3686:TRP:CE3	2.50	0.46
1:A:3603:LYS:HD3	1:A:3654:MET:O	2.16	0.46
1:A:3913:ILE:HG12	1:A:3917:ILE:HD11	1.97	0.46
2:B:219:ASP:CG	2:B:220:ILE:H	2.23	0.46
2:B:499:GLU:OE1	2:B:502:GLN:HB2	2.15	0.46
3:C:354:ARG:HG3	3:C:354:ARG:HH11	1.79	0.46
1:F:1213:LYS:HZ1	1:F:1280:GLN:HG3	1.80	0.46
1:F:1613:HIS:HA	1:F:1616:LEU:HB2	1.96	0.46
1:F:1733:THR:HB	1:F:1735:ARG:NH1	2.31	0.46
1:F:2136:PRO:O	1:F:2143:ARG:NH1	2.48	0.46
1:F:2158:ARG:NH2	1:F:2196:TRP:HB3	2.30	0.46
1:F:2176:ASN:ND2	1:F:2179:GLY:O	2.44	0.46
1:F:2333:ARG:CZ	1:F:2333:ARG:HA	2.46	0.46
1:F:2376:ASP:N	1:F:2376:ASP:OD1	2.48	0.46
1:F:3962:ARG:HG3	1:F:3967:PHE:CE2	2.51	0.46
2:G:34:GLY:HA3	2:G:162:SER:HB3	1.98	0.46
2:G:119:LEU:HA	2:G:122:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:271:VAL:HG13	2:G:370:PRO:HA	1.85	0.46
1:A:278:HIS:O	1:A:281:GLN:NE2	2.41	0.46
1:A:389:ILE:HG21	1:A:431:TYR:CD2	2.51	0.46
1:A:713:GLU:HG2	1:A:714:VAL:N	2.30	0.46
1:A:797:ASP:O	1:A:801:LYS:HG2	2.16	0.46
1:A:1142:HIS:HD1	1:A:1146:ASN:CG	2.23	0.46
1:A:1740:VAL:HA	1:A:1743:MET:HE3	1.98	0.46
1:A:1746:PHE:O	1:A:1750:LEU:HG	2.15	0.46
1:A:1782:PHE:HA	1:A:1785:ILE:HG22	1.97	0.46
1:A:1862:THR:O	1:A:1866:GLN:HG2	2.15	0.46
1:A:1973:LYS:HD2	1:A:1976:LEU:HB3	1.98	0.46
1:A:2486:ASP:OD1	1:A:2486:ASP:N	2.49	0.46
1:A:3054:GLN:OE1	1:A:3054:GLN:N	2.48	0.46
1:A:3164:TRP:CD1	1:A:3186:ARG:HH11	2.33	0.46
2:B:59:PRO:HA	2:B:62:MET:CG	2.46	0.46
2:B:392:LYS:HZ2	3:C:458:ILE:HG21	1.81	0.46
2:B:474:ARG:NH2	2:B:476:ASP:OD2	2.49	0.46
3:C:9:ALA:HB2	3:C:127:PHE:CG	2.51	0.46
3:C:40:MET:O	3:C:43:GLN:HG2	2.16	0.46
1:F:1709:GLU:O	1:F:1713:VAL:HG13	2.15	0.46
1:F:1726:SER:HB2	1:F:1772:HIS:O	2.14	0.46
1:F:2231:PHE:HA	1:F:2234:ASN:ND2	2.29	0.46
1:F:2512:ASP:O	1:F:2518:GLN:NE2	2.42	0.46
1:F:3174:ASP:HB3	1:F:3179:TRP:NE1	2.31	0.46
1:F:3278:GLN:HG2	1:F:3279:SER:N	2.31	0.46
1:F:3809:THR:HG21	1:F:3929:MET:HG3	1.98	0.46
2:G:54:GLU:HB3	2:G:56:GLU:CD	2.41	0.46
2:G:61:ASP:O	2:G:64:ILE:N	2.48	0.46
2:G:126:GLN:O	2:G:130:ARG:HG2	2.16	0.46
2:G:484:GLN:O	2:G:488:ARG:NH1	2.49	0.46
1:A:196:LEU:HB3	1:A:200:PHE:CZ	2.50	0.46
1:A:212:VAL:C	1:A:213:ARG:HD3	2.41	0.46
1:A:395:MET:HE1	1:A:413:PHE:CE1	2.50	0.46
1:A:944:LYS:O	1:A:944:LYS:NZ	2.31	0.46
1:A:1138:ILE:HG23	1:A:1145:LEU:HD22	1.97	0.46
1:A:1403:MET:O	1:A:1407:LYS:N	2.49	0.46
1:A:1884:LEU:HD11	1:A:1888:ASP:OD2	2.15	0.46
1:A:1905:ILE:HD12	1:A:1911:LEU:HD22	1.97	0.46
1:A:2322:VAL:HA	1:A:2325:LEU:HD12	1.97	0.46
1:A:2415:LEU:HD22	1:A:2420:PHE:CD1	2.50	0.46
1:A:2430:GLU:N	1:A:2430:GLU:OE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3469:LEU:CD1	1:A:3501:HIS:HB3	2.45	0.46
1:A:3496:ILE:HD13	1:A:3709:GLY:H	1.81	0.46
3:C:31:PHE:CZ	3:C:98:ILE:HG22	2.50	0.46
3:C:250:ARG:HD3	3:C:258:SER:HB2	1.98	0.46
3:C:324:SER:OG	3:C:325:LYS:N	2.49	0.46
1:F:1071:ASN:HD21	1:F:1073:PHE:HB2	1.81	0.46
1:F:1291:LEU:HD13	1:F:1363:LEU:HD12	1.97	0.46
1:F:1684:LEU:C	1:F:1689:LYS:HZ3	2.23	0.46
1:F:2155:GLU:HA	1:F:2158:ARG:CG	2.46	0.46
1:F:2202:PRO:HD3	1:F:2245:TRP:CE2	2.50	0.46
1:F:2328:ARG:HB2	1:F:2370:SER:OG	2.15	0.46
1:F:3722:PHE:CE1	1:F:3740:ILE:HG13	2.46	0.46
1:F:3806:LEU:HD21	1:F:3940:ILE:HD13	1.96	0.46
1:A:551:PHE:HE1	1:A:557:SER:H	1.64	0.46
1:A:721:TYR:HB2	1:A:726:LEU:HB2	1.98	0.46
1:A:756:PHE:O	1:A:760:LEU:HD23	2.16	0.46
1:A:1515:LEU:HD12	1:A:1516:GLU:N	2.31	0.46
1:A:1934:LEU:HA	1:A:1937:ARG:HG3	1.97	0.46
1:A:2398:LEU:HD13	1:A:2435:CYS:SG	2.56	0.46
1:A:2825:THR:O	1:A:2828:GLU:HG2	2.16	0.46
1:A:3616:ALA:HB1	1:A:3629:ARG:HH22	1.81	0.46
2:B:402:PRO:HG2	2:B:406:ILE:HG21	1.97	0.46
2:B:404:ARG:HD3	2:B:405:ASN:N	2.30	0.46
3:C:499:LEU:HD22	3:C:500:HIS:NE2	2.31	0.46
1:F:238:MET:HE2	1:F:283:SER:O	2.15	0.46
1:F:786:GLN:O	1:F:790:LYS:NZ	2.49	0.46
1:F:1413:ASP:OD1	1:F:1414:ILE:N	2.48	0.46
1:F:1419:LEU:HD21	1:F:1467:ILE:HD11	1.98	0.46
1:F:1948:ALA:O	1:F:1952:ILE:HG13	2.15	0.46
1:F:2345:VAL:O	1:F:2349:LEU:HG	2.15	0.46
1:F:2503:LYS:HD3	1:F:2506:LEU:HD12	1.98	0.46
1:F:2877:SER:O	1:F:2881:LEU:HG	2.16	0.46
1:F:3120:LEU:HD13	1:F:3899:ALA:HB2	1.97	0.46
1:F:4100:GLU:OE1	1:F:4100:GLU:N	2.38	0.46
3:H:81:ARG:NH1	3:H:84:MET:HB2	2.27	0.46
6:D:14:DT:H1'	7:E:43:DT:O2	2.16	0.46
1:A:329:LYS:HG2	1:A:329:LYS:O	2.14	0.46
1:A:336:ASN:HB2	1:A:340:TYR:CE2	2.51	0.46
1:A:856:VAL:HB	1:A:857:GLN:NE2	2.31	0.46
1:A:1038:LYS:HG3	1:A:1039:TRP:CD2	2.51	0.46
1:A:1474:ASP:OD1	1:A:1474:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1840:PHE:CE2	1:A:1898:GLN:HB2	2.42	0.46
1:A:1901:HIS:NE2	1:A:1904:CYS:HB3	2.31	0.46
1:A:3045:ILE:HG22	1:A:3049:LEU:HD11	1.98	0.46
1:A:3195:GLU:OE2	1:A:3196:LYS:NZ	2.42	0.46
1:A:3574:ALA:HB2	1:A:3686:TRP:CZ3	2.51	0.46
1:A:3751:LEU:HB2	1:A:3803:ILE:HB	1.98	0.46
1:A:3831:ASP:N	1:A:3831:ASP:OD1	2.49	0.46
2:B:85:VAL:HG22	2:B:106:GLN:HB2	1.98	0.46
2:B:121:GLN:OE1	2:B:130:ARG:NE	2.48	0.46
3:C:232:ARG:HG2	3:C:515:MET:HA	1.98	0.46
1:F:317:GLU:HG2	1:F:364:ARG:HH12	1.80	0.46
1:F:654:ILE:O	1:F:658:THR:HG23	2.16	0.46
1:F:958:MET:HB2	1:F:962:TYR:CZ	2.51	0.46
1:F:1111:LEU:O	1:F:1115:HIS:HD2	1.99	0.46
1:F:1248:PHE:HD1	1:F:1313:PHE:HA	1.80	0.46
1:F:1418:HIS:O	1:F:1421:GLU:HG2	2.16	0.46
1:F:1621:THR:O	1:F:1625:HIS:N	2.48	0.46
1:F:1897:ASN:OD1	1:F:1902:GLY:N	2.45	0.46
1:F:2212:ALA:O	1:F:2216:LEU:HG	2.15	0.46
1:F:2213:ASN:HA	1:F:2216:LEU:HD12	1.97	0.46
1:F:2310:VAL:HG13	1:F:2316:TYR:CZ	2.50	0.46
1:F:2397:CYS:O	1:F:2400:VAL:HG12	2.15	0.46
1:F:3096:VAL:HG13	1:F:3100:LYS:HZ2	1.81	0.46
1:F:4101:GLU:HG2	1:F:4102:THR:N	2.29	0.46
2:G:182:LYS:HA	2:G:185:ARG:NH2	2.31	0.46
2:G:347:LEU:HD11	2:G:396:ALA:HB1	1.98	0.46
2:G:375:VAL:HG13	3:H:540:ILE:O	2.16	0.46
3:H:12:LEU:HB2	3:H:56:LEU:HA	1.97	0.46
3:H:17:GLY:H	3:H:20:MET:HE3	1.80	0.46
3:H:33:GLN:O	3:H:36:LYS:HG2	2.15	0.46
3:H:219:ASP:OD1	3:H:219:ASP:N	2.43	0.46
4:J:28:DA:N1	5:I:29:DA:C2	2.83	0.46
5:I:40:DT:H1'	5:I:41:DT:C2	2.51	0.46
1:A:99:LYS:NZ	1:A:144:MET:H	2.13	0.46
1:A:717:LYS:NZ	1:A:721:TYR:OH	2.31	0.46
1:A:1209:LYS:HZ2	1:A:1276:VAL:HG22	1.81	0.46
1:A:1400:VAL:HG21	1:A:1460:ARG:HB3	1.97	0.46
1:A:1463:LEU:HB3	1:A:1466:ASN:OD1	2.16	0.46
1:A:1468:LEU:HD22	1:A:1521:PHE:HE1	1.81	0.46
1:A:1476:HIS:CD2	1:A:1521:PHE:CD1	3.04	0.46
1:A:1725:GLN:OE1	1:A:1727:ARG:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1768:ARG:HD2	1:A:1768:ARG:HA	1.65	0.46
1:A:2470:ARG:O	1:A:2473:MET:HB3	2.16	0.46
1:A:2796:ALA:C	1:A:2799:GLN:HE22	2.22	0.46
2:B:187:ARG:NH2	2:B:216:PHE:HA	2.30	0.46
2:B:289:TYR:HB3	2:B:293:ASN:N	2.31	0.46
2:B:301:ARG:NH2	2:B:310:LEU:HD11	2.31	0.46
3:C:234:LEU:HA	3:C:237:PHE:HD2	1.79	0.46
3:C:599:ARG:O	3:C:603:LYS:HG2	2.16	0.46
1:F:24:ARG:HH21	1:F:25:CYS:HA	1.81	0.46
1:F:225:LYS:NZ	1:F:268:PRO:HA	2.31	0.46
1:F:256:ILE:HG13	1:F:257:ARG:HD3	1.97	0.46
1:F:432:THR:HA	1:F:435:LEU:HD12	1.98	0.46
1:F:971:ARG:NH1	1:F:1025:LEU:HD13	2.31	0.46
1:F:1082:PHE:CE2	1:F:1133:HIS:HB2	2.51	0.46
1:F:1095:LEU:O	1:F:1099:PHE:N	2.47	0.46
1:F:1400:VAL:HA	1:F:1403:MET:HE3	1.98	0.46
1:F:1709:GLU:H	1:F:1709:GLU:CD	2.24	0.46
1:F:1982:ILE:O	1:F:2177:ASN:ND2	2.49	0.46
1:F:2270:ASN:O	1:F:2273:GLY:N	2.50	0.46
1:F:3258:LEU:O	1:F:3262:LEU:HG	2.15	0.46
1:F:3823:GLU:CD	1:F:3823:GLU:H	2.24	0.46
1:F:3982:SER:HB2	1:F:3986:HIS:HE1	1.81	0.46
1:F:4027:TRP:HA	1:F:4029:GLN:HE22	1.82	0.46
1:A:339:GLN:HE22	3:C:570:GLU:CD	2.23	0.45
1:A:851:ILE:O	1:A:855:VAL:HG23	2.15	0.45
1:A:1090:ARG:HG3	1:A:1091:GLU:OE1	2.15	0.45
1:A:1136:ARG:HA	1:A:1139:GLU:OE1	2.16	0.45
1:A:1323:SER:OG	1:A:1324:PRO:HD3	2.16	0.45
1:A:1345:THR:O	1:A:1348:LEU:HB2	2.16	0.45
1:A:2182:ILE:HD12	1:A:2225:HIS:HE1	1.81	0.45
1:A:2374:LEU:HD12	1:A:2377:ARG:HH22	1.81	0.45
1:A:3723:ASP:CB	1:A:3739:ILE:HB	2.46	0.45
2:B:273:ILE:N	2:B:273:ILE:HD12	2.31	0.45
2:B:303:PHE:N	3:C:290:GLN:O	2.49	0.45
3:C:8:ALA:HA	3:C:129:LYS:HB3	1.98	0.45
3:C:13:CYS:O	3:C:14:MET:HE2	2.16	0.45
3:C:521:GLU:HG2	3:C:522:VAL:N	2.29	0.45
1:F:263:LYS:HE2	1:F:267:VAL:H	1.80	0.45
1:F:429:GLU:OE1	1:F:429:GLU:N	2.45	0.45
1:F:939:MET:O	1:F:942:LEU:HG	2.16	0.45
1:F:1083:ASN:HD21	1:F:1130:ALA:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1085:ILE:O	1:F:1088:GLU:HG2	2.16	0.45
1:F:1568:ASN:O	1:F:1572:LEU:HD23	2.16	0.45
1:F:1672:PHE:CZ	1:F:1676:ILE:HD11	2.51	0.45
1:F:2340:SER:O	1:F:2344:LEU:HG	2.16	0.45
1:F:2383:PHE:HB3	1:F:2418:LYS:HE3	1.97	0.45
1:F:2469:CYS:SG	1:F:2470:ARG:HD3	2.56	0.45
1:F:2898:LEU:HD12	1:F:3973:PRO:HD3	1.96	0.45
1:F:3002:TYR:HB3	1:F:3011:LEU:HB2	1.97	0.45
1:F:3873:LYS:HG3	1:F:3877:LYS:NZ	2.31	0.45
2:G:111:PRO:HB2	3:H:317:GLY:HA2	1.98	0.45
2:G:166:ILE:O	2:G:167:MET:HE2	2.16	0.45
2:G:269:ILE:HD13	2:G:382:PHE:HE1	1.81	0.45
6:D:33:DA:H2''	6:D:34:DT:C6	2.51	0.45
1:A:192:ASN:O	1:A:196:LEU:HG	2.16	0.45
1:A:390:GLN:HA	1:A:394:GLN:HE22	1.81	0.45
1:A:852:ARG:O	1:A:856:VAL:HG23	2.16	0.45
1:A:1983:ASP:HA	1:A:2184:TYR:OH	2.16	0.45
1:A:2102:LYS:O	1:A:2106:ARG:N	2.49	0.45
1:A:2438:ILE:CG2	1:A:2442:MET:HE1	2.41	0.45
1:A:2931:ARG:HA	1:A:2931:ARG:NE	2.31	0.45
1:A:2964:ASP:OD1	1:A:2965:TYR:N	2.49	0.45
1:A:3361:GLU:HA	1:A:3373:VAL:HG21	1.97	0.45
1:A:3369:ASP:OD2	1:A:3372:LYS:NZ	2.44	0.45
1:A:3918:LEU:HB3	1:A:3920:ILE:CD1	2.46	0.45
1:A:3968:ILE:HD12	1:A:3971:MET:HB2	1.97	0.45
2:B:34:GLY:H	2:B:80:ARG:HH22	1.64	0.45
2:B:106:GLN:NE2	2:B:119:LEU:HD11	2.31	0.45
2:B:329:LEU:HD21	3:C:497:ARG:HG3	1.98	0.45
3:C:16:VAL:HB	3:C:58:LEU:HD12	1.98	0.45
1:F:304:THR:HA	1:F:309:LYS:HZ2	1.80	0.45
1:F:324:SER:HB3	1:F:368:LEU:HD11	1.97	0.45
1:F:350:ARG:HB3	1:F:1733:THR:HG23	1.98	0.45
1:F:730:LEU:HD12	1:F:731:THR:N	2.31	0.45
1:F:756:PHE:CD1	1:F:796:LEU:HD21	2.51	0.45
1:F:1884:LEU:HD12	1:F:1888:ASP:OD2	2.16	0.45
1:F:3324:ARG:NH2	1:F:3394:GLU:HB2	2.31	0.45
2:G:341:ASP:OD2	2:G:408:PRO:HB3	2.17	0.45
3:H:7:LYS:HA	3:H:51:LYS:HD2	1.97	0.45
3:H:134:ILE:HG13	3:H:163:PHE:HA	1.98	0.45
3:H:263:ALA:HA	3:H:364:VAL:HA	1.98	0.45
3:H:344:GLY:O	3:H:392:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:GLY:HA3	1:A:826:PHE:CD1	2.52	0.45
1:A:99:LYS:H	1:A:141:SER:HB2	1.81	0.45
1:A:358:GLU:C	1:A:358:GLU:CD	2.85	0.45
1:A:459:ARG:O	1:A:463:LYS:HG3	2.17	0.45
1:A:726:LEU:HD12	1:A:729:CYS:SG	2.56	0.45
1:A:1570:GLU:OE2	1:A:1573:LYS:HE3	2.16	0.45
1:A:1718:ILE:HG13	1:A:1719:VAL:N	2.31	0.45
1:A:1752:LEU:HD13	1:A:1788:ARG:HH12	1.82	0.45
1:A:1789:GLY:C	1:A:1794:GLN:HE22	2.24	0.45
1:A:1848:ILE:O	1:A:1852:LYS:NZ	2.43	0.45
1:A:2130:HIS:ND1	1:A:2163:HIS:O	2.49	0.45
1:A:2182:ILE:HD12	1:A:2225:HIS:CE1	2.52	0.45
1:A:2392:VAL:O	1:A:2395:THR:HB	2.16	0.45
1:A:2806:LYS:HD3	1:A:2857:CYS:HB3	1.98	0.45
1:A:2980:ASP:N	1:A:2980:ASP:OD1	2.49	0.45
1:A:3700:GLU:OE1	1:A:3704:GLN:HB3	2.16	0.45
1:A:3955:VAL:HG21	1:A:4121:TRP:HB2	1.97	0.45
1:A:4008:GLU:OE2	1:A:4010:SER:N	2.44	0.45
2:B:279:LYS:HZ1	3:C:358:GLY:H	1.64	0.45
2:B:375:VAL:HG22	3:C:541:GLU:HG3	1.97	0.45
3:C:551:GLN:OE1	3:C:551:GLN:N	2.49	0.45
1:F:303:HIS:CE1	1:F:308:LEU:HD22	2.51	0.45
1:F:398:THR:N	1:F:399:GLN:OE1	2.50	0.45
1:F:486:GLY:O	1:F:490:ILE:HG12	2.16	0.45
1:F:1572:LEU:HD21	1:F:1603:GLN:NE2	2.32	0.45
1:F:1576:ASP:O	1:F:1580:LEU:N	2.47	0.45
1:F:1581:GLU:HA	1:F:1584:GLN:HE22	1.81	0.45
1:F:2939:LEU:HB3	1:F:2943:PHE:CZ	2.52	0.45
1:F:3900:LEU:HD12	1:F:3901:ARG:N	2.31	0.45
2:G:392:LYS:HG3	3:H:458:ILE:HD11	1.97	0.45
4:J:18:DA:H2"	4:J:19:DA:C8	2.51	0.45
6:D:18:DA:C2	6:D:19:DA:N6	2.84	0.45
1:A:295:GLU:O	1:A:299:LYS:N	2.42	0.45
1:A:782:ARG:CZ	1:A:783:HIS:CE1	2.99	0.45
1:A:957:PRO:CB	1:A:1004:GLN:HG3	2.47	0.45
1:A:1681:ASP:OD1	1:A:1683:LYS:N	2.49	0.45
1:A:1860:GLU:OE2	1:A:1861:SER:N	2.49	0.45
1:A:3030:ILE:HG22	1:A:3030:ILE:O	2.16	0.45
1:A:3123:GLN:O	1:A:3127:THR:N	2.36	0.45
1:A:3144:PHE:CE1	1:A:3150:ASN:HB3	2.52	0.45
1:A:3499:ILE:HA	1:A:3502:MET:HE2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4120:THR:HG21	1:A:4126:PRO:HG3	1.97	0.45
2:B:351:LYS:NZ	3:C:475:ASP:HA	2.31	0.45
3:C:244:SER:HB3	3:C:264:TYR:HB3	1.98	0.45
3:C:641:ALA:O	3:C:645:GLU:HG2	2.16	0.45
1:F:1369:MET:HG3	1:F:1418:HIS:NE2	2.30	0.45
1:F:1715:GLU:HA	1:F:1718:ILE:HG12	1.98	0.45
1:F:2336:ILE:HG13	1:F:2336:ILE:O	2.17	0.45
1:F:3142:ILE:O	1:F:3146:SER:HB3	2.16	0.45
1:F:3811:THR:HG21	1:F:3926:ASN:HD22	1.80	0.45
1:F:3908:HIS:NE2	1:F:3912:CYS:SG	2.90	0.45
2:G:95:ASN:CG	2:G:98:ASN:H	2.23	0.45
2:G:256:LEU:H	2:G:256:LEU:HD23	1.82	0.45
3:H:165:LEU:HD21	3:H:194:LEU:HB2	1.98	0.45
3:H:335:SER:OG	3:H:396:ALA:HB1	2.17	0.45
1:A:1220:LEU:HB3	1:A:1224:PHE:CE2	2.52	0.45
1:A:2520:ILE:HD13	1:A:2523:ASN:OD1	2.17	0.45
1:A:2825:THR:N	1:A:2828:GLU:OE2	2.32	0.45
1:A:3001:CYS:SG	1:A:3002:TYR:N	2.90	0.45
1:A:3145:ILE:HD11	1:A:3196:LYS:HE2	1.98	0.45
1:A:3466:PRO:HB2	1:A:4004:VAL:HG11	1.97	0.45
1:A:3596:LEU:HD22	1:A:3654:MET:HE1	1.99	0.45
1:A:3820:MET:HE2	1:A:3821:SER:N	2.32	0.45
1:A:3870:SER:O	1:A:3874:ARG:HG2	2.16	0.45
1:A:3886:ALA:O	1:A:3889:ARG:N	2.50	0.45
2:B:318:ARG:N	2:B:329:LEU:O	2.49	0.45
2:B:380:THR:O	3:C:450:GLN:NE2	2.47	0.45
3:C:293:THR:HG22	3:C:295:TYR:CE1	2.51	0.45
3:C:599:ARG:HA	3:C:602:VAL:HG22	1.98	0.45
1:F:144:MET:SD	1:F:145:ASP:N	2.89	0.45
1:F:940:PHE:O	1:F:944:LYS:HG2	2.17	0.45
1:F:1622:ILE:O	1:F:1626:TRP:N	2.49	0.45
1:F:1775:GLU:OE1	1:F:1775:GLU:N	2.40	0.45
1:F:1812:LEU:HB3	1:F:1815:THR:HG23	1.97	0.45
1:F:1829:TRP:HA	1:F:1883:ARG:HH22	1.81	0.45
1:F:2338:GLU:OE1	1:F:2339:GLU:N	2.49	0.45
1:F:3269:ARG:HB3	1:F:3272:TRP:CE3	2.49	0.45
1:F:3410:ILE:HG22	1:F:3453:ALA:HB1	1.98	0.45
1:F:3419:PHE:O	1:F:3422:GLN:HG3	2.16	0.45
1:F:3545:THR:HA	1:F:3549:HIS:HB2	1.98	0.45
1:F:3603:LYS:HE2	1:F:3651:LEU:HD21	1.97	0.45
1:F:3774:ILE:HG22	1:F:3778:ASP:OD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:356:LEU:HD11	3:H:353:ARG:HH21	1.80	0.45
3:H:43:GLN:HA	3:H:46:VAL:HG12	1.97	0.45
3:H:74:TYR:OH	3:H:112:ILE:HD12	2.17	0.45
1:A:17:GLU:HA	1:A:20:SER:OG	2.16	0.45
1:A:100:ILE:C	1:A:102:PRO:HD2	2.41	0.45
1:A:248:ILE:O	1:A:252:VAL:HG23	2.17	0.45
1:A:584:GLU:O	1:A:613:HIS:N	2.47	0.45
1:A:721:TYR:HB2	1:A:726:LEU:HD13	1.98	0.45
1:A:910:PHE:CZ	1:A:2808:LEU:HD23	2.51	0.45
1:A:1212:LEU:HA	1:A:1219:PHE:CD2	2.51	0.45
1:A:1225:GLU:HB2	1:A:1236:LEU:HD22	1.99	0.45
1:A:1327:GLY:O	1:A:1331:ASN:ND2	2.50	0.45
1:A:1333:SER:O	1:A:1337:VAL:HG23	2.16	0.45
1:A:1747:LEU:O	1:A:1750:LEU:HB2	2.17	0.45
1:A:1917:LYS:HD2	1:A:1917:LYS:N	2.32	0.45
1:A:2255:LEU:HA	1:A:2258:GLU:OE2	2.16	0.45
1:A:2457:PRO:HA	1:A:2460:GLU:CD	2.42	0.45
1:A:2869:LEU:HD21	1:A:2895:GLU:C	2.42	0.45
1:A:3810:VAL:HG22	1:A:3811:THR:H	1.80	0.45
1:A:3898:LEU:HD12	1:A:3899:ALA:N	2.31	0.45
2:B:319:SER:HA	2:B:327:ILE:O	2.17	0.45
2:B:365:SER:HG	2:B:434:LEU:C	2.24	0.45
2:B:471:PHE:HZ	2:B:517:ARG:NH2	2.15	0.45
3:C:682:GLY:O	3:C:686:ILE:N	2.49	0.45
1:F:51:LEU:O	1:F:54:GLN:NE2	2.50	0.45
1:F:582:THR:O	1:F:615:ALA:HB2	2.15	0.45
1:F:1091:GLU:OE1	1:F:1091:GLU:N	2.50	0.45
1:F:2866:ALA:HA	1:F:2869:LEU:HD12	1.98	0.45
1:F:3134:ALA:O	1:F:3138:ILE:HG12	2.17	0.45
1:F:3172:LYS:O	1:F:3783:GLN:NE2	2.50	0.45
1:F:3252:PHE:O	1:F:3254:LEU:HD23	2.17	0.45
1:F:3259:LEU:HD11	1:F:3283:LEU:HD13	1.99	0.45
1:F:3273:LEU:O	1:F:3277:VAL:HG23	2.17	0.45
1:F:3577:GLN:NE2	1:F:3625:LEU:HA	2.32	0.45
1:F:3628:PHE:HA	1:F:3675:LYS:HD2	1.99	0.45
1:F:3671:ASN:OD1	1:F:3672:LYS:N	2.49	0.45
1:F:3918:LEU:HB2	1:F:3920:ILE:HG12	1.97	0.45
1:F:3949:ALA:O	1:F:3953:LEU:HB2	2.15	0.45
2:G:478:PHE:CZ	3:H:424:LEU:HD22	2.52	0.45
3:H:629:THR:O	3:H:633:MET:HG2	2.16	0.45
3:H:640:ARG:HD2	3:H:685:LEU:HG	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:15:DA:H5'	7:E:42:DA:C2	2.49	0.45
1:A:322:GLN:C	1:A:324:SER:N	2.75	0.45
1:A:1166:LEU:O	1:A:1170:LYS:HG2	2.16	0.45
1:A:2261:SER:O	1:A:2270:ASN:ND2	2.50	0.45
1:A:2481:HIS:CE1	1:A:2485:ARG:HB3	2.52	0.45
1:A:2818:LYS:HD3	1:A:2818:LYS:HA	1.74	0.45
1:A:2931:ARG:NH2	1:A:2939:LEU:HD11	2.32	0.45
1:A:3100:LYS:O	1:A:3104:GLN:HG2	2.16	0.45
1:A:3302:LYS:HA	1:A:3305:SER:HB3	1.99	0.45
1:A:3455:LYS:HA	1:A:3491:PRO:HG2	1.98	0.45
1:A:3828:TYR:O	1:A:3832:PRO:HG3	2.17	0.45
1:A:3995:PRO:O	1:A:3999:THR:HG23	2.16	0.45
1:A:4098:LEU:HB2	1:A:4103:GLN:NE2	2.32	0.45
2:B:350:PHE:HD2	3:C:458:ILE:HA	1.77	0.45
2:B:410:PHE:O	2:B:437:LEU:HG	2.16	0.45
1:F:560:LEU:O	1:F:563:LEU:N	2.49	0.45
1:F:667:TYR:HB2	1:F:728:SER:CB	2.42	0.45
1:F:1207:TRP:CZ3	1:F:1211:VAL:HG21	2.52	0.45
1:F:1820:VAL:HG23	1:F:1824:LEU:HD12	1.98	0.45
1:F:2512:ASP:HB3	1:F:2518:GLN:NE2	2.32	0.45
1:F:2565:MET:O	1:F:2568:MET:HG3	2.16	0.45
1:F:2862:SER:OG	1:F:2892:LEU:HD12	2.17	0.45
1:F:3008:TRP:HD1	1:F:3011:LEU:CD2	2.30	0.45
1:F:3811:THR:HG22	1:F:3813:LYS:H	1.82	0.45
1:F:4035:GLU:OE2	1:F:4036:LYS:N	2.49	0.45
2:G:52:GLN:HG3	2:G:206:LYS:HG3	1.98	0.45
2:G:319:SER:O	3:H:277:THR:N	2.48	0.45
4:J:18:DA:C5	5:I:39:DA:N1	2.84	0.45
6:D:37:DG:C2	6:D:38:DG:C2	3.05	0.45
1:A:793:LEU:HD22	1:A:869:ASN:ND2	2.31	0.45
1:A:1134:LEU:O	1:A:1137:ILE:HG22	2.17	0.45
1:A:1337:VAL:O	1:A:1341:ILE:HG13	2.17	0.45
1:A:1360:LYS:HE2	1:A:1360:LYS:HA	1.98	0.45
1:A:1635:LYS:HE2	1:A:1683:LYS:NZ	2.32	0.45
1:A:1811:ARG:NE	3:C:627:ASN:OD1	2.50	0.45
1:A:2100:LEU:HD12	1:A:2101:VAL:N	2.32	0.45
1:A:2135:ASN:O	1:A:2138:VAL:HG12	2.16	0.45
1:A:2580:PRO:HB2	1:A:2582:SER:O	2.16	0.45
1:A:2586:PHE:HB3	1:A:2776:ARG:HD2	1.98	0.45
1:A:2789:SER:HA	1:A:2792:THR:OG1	2.16	0.45
1:A:3628:PHE:CG	1:A:3683:CYS:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3735:PRO:HB2	1:A:3751:LEU:HD12	1.98	0.45
1:A:3812:LEU:O	1:A:3816:LEU:N	2.38	0.45
2:B:343:PRO:HA	2:B:401:THR:OG1	2.17	0.45
3:C:232:ARG:HD2	3:C:515:MET:HA	1.98	0.45
3:C:413:LYS:HD3	3:C:415:ASN:C	2.42	0.45
3:C:629:THR:HA	3:C:632:PHE:CZ	2.52	0.45
1:F:649:PHE:CZ	1:F:653:LEU:HD11	2.52	0.45
1:F:990:GLN:CB	1:F:2781:PRO:HD3	2.46	0.45
1:F:1030:GLY:O	1:F:1033:ILE:HG22	2.17	0.45
1:F:1476:HIS:H	1:F:1524:LEU:CD2	2.30	0.45
1:F:1811:ARG:HH22	3:H:627:ASN:H	1.63	0.45
1:F:3164:TRP:HH2	1:F:3189:PHE:CZ	2.34	0.45
1:F:3167:ARG:HA	1:F:3167:ARG:HD2	1.63	0.45
1:F:3700:GLU:HG3	1:F:3717:VAL:O	2.17	0.45
3:H:16:VAL:O	3:H:101:GLY:N	2.50	0.45
3:H:548:VAL:O	3:H:548:VAL:HG12	2.17	0.45
6:D:21:DA:H2"	6:D:22:DG:C8	2.52	0.45
1:A:108:LYS:HA	1:A:111:CYS:SG	2.57	0.45
1:A:261:ASP:CG	3:C:551:GLN:HE22	2.25	0.45
1:A:264:ARG:HG2	1:A:265:TYR:N	2.32	0.45
1:A:699:GLU:OE1	1:A:699:GLU:N	2.35	0.45
1:A:892:LEU:HD11	1:A:940:PHE:CE2	2.52	0.45
1:A:962:TYR:HB3	1:A:966:PHE:CE2	2.51	0.45
1:A:1558:TYR:CE2	1:A:1562:LEU:HD11	2.51	0.45
1:A:1980:ASN:O	1:A:1982:ILE:HG12	2.16	0.45
1:A:3136:THR:O	1:A:3140:GLU:HB2	2.16	0.45
1:A:3193:ILE:HD11	1:A:3231:ILE:HG12	1.99	0.45
1:A:3587:ASP:HA	1:A:3590:ASN:OD1	2.16	0.45
1:A:4121:TRP:CD1	1:A:4123:GLY:H	2.35	0.45
2:B:289:TYR:H	2:B:294:GLU:H	1.64	0.45
3:C:294:VAL:C	3:C:295:TYR:CD1	2.95	0.45
3:C:395:TYR:HD1	3:C:404:GLN:HB2	1.81	0.45
3:C:629:THR:HB	3:C:633:MET:HE2	1.99	0.45
1:F:296:VAL:HB	1:F:300:TRP:CD1	2.52	0.45
1:F:432:THR:CG2	1:F:433:PRO:HD3	2.47	0.45
1:F:643:GLU:O	1:F:646:VAL:HG22	2.17	0.45
1:F:878:GLU:HG3	1:F:879:MET:SD	2.57	0.45
1:F:1794:GLN:O	1:F:1798:LEU:HG	2.17	0.45
1:F:1872:GLY:HA2	1:F:1875:LYS:HE2	1.98	0.45
1:F:2097:LEU:O	1:F:2101:VAL:HG23	2.16	0.45
1:F:2950:LYS:O	1:F:2953:THR:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3460:GLU:HB2	1:F:3464:LYS:HE3	1.99	0.45
1:F:3580:ASN:HA	1:F:3628:PHE:CZ	2.51	0.45
1:F:3980:MET:HB2	1:F:3984:MET:HE1	1.97	0.45
1:F:4076:ASP:CG	1:F:4119:ARG:HH22	2.24	0.45
2:G:51:SER:HB3	2:G:54:GLU:O	2.17	0.45
2:G:103:TYR:CE2	2:G:135:MET:HB3	2.52	0.45
2:G:339:ARG:C	2:G:339:ARG:HD3	2.42	0.45
3:H:52:ASP:N	3:H:52:ASP:OD1	2.50	0.45
3:H:496:HIS:CD2	3:H:506:PRO:HB3	2.52	0.45
1:A:149:ILE:O	1:A:151:GLU:N	2.50	0.45
1:A:339:GLN:NE2	3:C:570:GLU:HA	2.32	0.45
1:A:575:ILE:O	1:A:579:LEU:HG	2.16	0.45
1:A:729:CYS:O	1:A:733:LEU:HG	2.17	0.45
1:A:741:ILE:HG23	1:A:748:TYR:CD2	2.49	0.45
1:A:899:ARG:NH1	1:A:2565:MET:O	2.44	0.45
1:A:1364:CYS:O	1:A:1368:LEU:HB2	2.17	0.45
1:A:1409:SER:C	1:A:1411:TYR:H	2.24	0.45
1:A:2326:ILE:HD12	1:A:2329:TYR:HB3	1.99	0.45
1:A:2346:ALA:O	1:A:2349:LEU:HG	2.16	0.45
1:A:2808:LEU:O	1:A:2812:LEU:HD23	2.17	0.45
1:A:2942:ILE:O	1:A:2942:ILE:HG13	2.17	0.45
1:A:3147:LYS:HD3	1:A:3149:GLY:N	2.31	0.45
1:A:3913:ILE:HD11	1:A:3991:PHE:HE2	1.81	0.45
2:B:174:ASN:HB2	2:B:215:LEU:HD23	1.98	0.45
2:B:176:HIS:CD2	2:B:180:SER:HA	2.52	0.45
3:C:659:LEU:HD22	3:C:688:LYS:HE2	1.99	0.45
1:F:1696:LEU:HD12	1:F:1699:PHE:HB2	1.99	0.45
1:F:1730:PRO:CD	1:F:1735:ARG:HH22	2.30	0.45
1:F:2464:HIS:O	1:F:2466:SER:N	2.50	0.45
1:F:2562:LEU:HA	1:F:2565:MET:HB3	1.99	0.45
1:F:3726:VAL:HG12	1:F:3728:VAL:HG23	1.98	0.45
1:F:4016:PHE:O	1:F:4020:MET:HG2	2.17	0.45
2:G:91:GLU:OE1	2:G:136:GLY:HA3	2.17	0.45
2:G:456:PRO:HA	2:G:459:VAL:HG23	1.98	0.45
3:H:138:LEU:HD21	3:H:204:GLY:HA3	1.99	0.45
3:H:306:LEU:HB3	3:H:309:ASP:HB2	1.99	0.45
1:A:87:LYS:HZ3	1:A:827:ASN:CG	2.25	0.44
1:A:138:PHE:CE1	1:A:146:GLU:HA	2.51	0.44
1:A:823:GLN:HE22	1:A:831:LEU:HD11	1.82	0.44
1:A:887:ASP:HB3	1:A:958:MET:CE	2.46	0.44
1:A:1419:LEU:HD21	1:A:1467:ILE:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1767:CYS:HA	1:A:1822:ARG:CZ	2.47	0.44
1:A:2372:PRO:HG2	1:A:2373:PRO:HD3	1.98	0.44
1:A:2479:TRP:HA	1:A:2482:ASP:OD2	2.17	0.44
1:A:3027:LEU:HA	1:A:3031:TRP:HZ2	1.81	0.44
1:A:3048:LYS:HD3	1:A:3061:LEU:CB	2.47	0.44
1:A:3158:LYS:O	1:A:3161:LEU:HG	2.17	0.44
1:A:3159:ARG:HH11	1:A:3159:ARG:HA	1.82	0.44
1:A:3298:LEU:HD13	1:A:3337:ILE:HG12	1.99	0.44
1:A:3352:GLU:HB2	1:A:3357:ARG:CZ	2.47	0.44
1:A:3496:ILE:HD12	1:A:3496:ILE:H	1.82	0.44
1:A:3681:LYS:HZ1	1:A:3726:VAL:H	1.64	0.44
3:C:16:VAL:HG23	3:C:99:GLN:O	2.16	0.44
3:C:146:GLN:O	3:C:150:ILE:HG23	2.17	0.44
3:C:696:VAL:HA	3:C:699:GLU:HB2	1.99	0.44
1:F:752:LEU:HB3	1:F:756:PHE:HE2	1.82	0.44
1:F:826:PHE:CD2	1:F:836:LYS:HD2	2.52	0.44
1:F:1413:ASP:O	1:F:1417:THR:HG23	2.17	0.44
1:F:1560:TYR:OH	1:F:1596:VAL:HA	2.17	0.44
1:F:1770:GLN:HB2	1:F:1814:PHE:HZ	1.80	0.44
1:F:2121:ASP:N	1:F:2121:ASP:OD1	2.51	0.44
1:F:2396:LEU:O	1:F:2399:GLU:HG2	2.17	0.44
1:F:3459:ASN:O	1:F:3463:LEU:HG	2.17	0.44
1:F:3716:HIS:O	1:F:3718:ARG:NH1	2.50	0.44
1:F:3758:LEU:HB2	1:F:3795:PRO:HD3	2.00	0.44
2:G:49:PHE:HE2	2:G:132:GLN:HE22	1.63	0.44
2:G:325:ARG:NH2	2:G:326:GLN:O	2.50	0.44
2:G:334:THR:O	2:G:337:LEU:HB2	2.17	0.44
2:G:410:PHE:HE2	3:H:482:ILE:HG13	1.82	0.44
3:H:34:ALA:O	3:H:38:ILE:HG12	2.16	0.44
3:H:343:LEU:N	3:H:392:ILE:O	2.41	0.44
4:J:28:DA:H2'	4:J:28:DA:O5'	2.17	0.44
6:D:32:DT:O2	7:E:25:DA:H2	1.99	0.44
7:E:29:DA:C6	7:E:30:DA:C6	3.05	0.44
1:A:582:THR:HG21	1:A:615:ALA:HB3	2.00	0.44
1:A:755:ALA:O	1:A:759:GLY:N	2.39	0.44
1:A:1661:PHE:HA	1:A:1665:HIS:ND1	2.33	0.44
1:A:3251:ASN:OD1	1:A:3252:PHE:N	2.50	0.44
1:A:3258:LEU:HB3	1:A:3262:LEU:HD11	1.99	0.44
1:A:3763:ARG:HA	1:A:3763:ARG:NE	2.32	0.44
2:B:186:ALA:HA	2:B:189:LYS:NZ	2.32	0.44
2:B:404:ARG:NH1	2:B:405:ASN:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:413:LEU:HD21	2:B:432:PHE:CD1	2.51	0.44
2:B:523:ASP:HA	3:C:256:ASN:ND2	2.31	0.44
3:C:250:ARG:HG2	3:C:260:ARG:HA	1.99	0.44
1:F:139:ARG:HA	1:F:139:ARG:NE	2.32	0.44
1:F:448:GLN:HE21	1:F:520:LYS:HB2	1.82	0.44
1:F:763:THR:HB	1:F:851:ILE:HD11	1.98	0.44
1:F:854:ARG:HG2	1:F:857:GLN:NE2	2.31	0.44
1:F:858:MET:O	1:F:862:LEU:N	2.49	0.44
1:F:1268:ASN:HD21	1:F:1344:PHE:HB2	1.82	0.44
1:F:1326:GLU:HA	1:F:1329:ARG:NH1	2.33	0.44
1:F:1529:VAL:HG11	1:F:1581:GLU:HB2	1.99	0.44
1:F:1710:LEU:O	1:F:1713:VAL:HG22	2.17	0.44
1:F:1814:PHE:HA	1:F:1817:GLN:HG3	1.99	0.44
1:F:1867:ILE:O	1:F:1871:MET:HG2	2.17	0.44
1:F:2351:GLN:N	1:F:2353:GLN:HG2	2.33	0.44
1:F:3846:MET:CB	1:F:3858:MET:HA	2.47	0.44
2:G:107:GLU:OE2	2:G:109:ASP:HB3	2.17	0.44
2:G:447:PRO:HG2	3:H:365:PHE:CZ	2.53	0.44
3:H:87:ASP:HB3	3:H:90:LEU:HG	1.98	0.44
1:A:99:LYS:H	1:A:141:SER:CB	2.31	0.44
1:A:474:VAL:HG22	1:A:478:CYS:N	2.32	0.44
1:A:474:VAL:HG22	1:A:478:CYS:H	1.82	0.44
1:A:541:MET:HA	1:A:544:ILE:HB	2.00	0.44
1:A:901:MET:CG	1:A:2819:GLU:HG2	2.48	0.44
1:A:1399:CYS:C	1:A:1403:MET:HE3	2.41	0.44
1:A:1710:LEU:O	1:A:1714:LEU:HG	2.17	0.44
1:A:2433:LYS:HB3	1:A:2469:CYS:SG	2.58	0.44
1:A:2586:PHE:CD1	1:A:2778:GLY:HA3	2.52	0.44
1:A:2792:THR:OG1	1:A:2793:PRO:HD3	2.18	0.44
1:A:3498:TRP:HB2	1:A:3502:MET:HE1	1.99	0.44
1:A:3537:SER:HA	1:A:3540:TYR:OH	2.17	0.44
1:A:3669:LYS:HG3	1:A:3670:MET:HG2	1.99	0.44
1:A:3701:ILE:HG13	1:A:3704:GLN:H	1.82	0.44
1:A:3863:ASN:HB3	1:A:3866:GLU:CB	2.47	0.44
1:A:4089:ILE:CD1	1:A:4092:GLN:HE22	2.31	0.44
3:C:76:ASN:HB2	3:C:105:ALA:HB2	1.98	0.44
3:C:482:ILE:HG21	3:C:516:LEU:HD21	1.98	0.44
3:C:610:GLU:OE1	3:C:654:ARG:NH2	2.50	0.44
1:F:193:ALA:HB1	1:F:197:PHE:CZ	2.52	0.44
1:F:583:LEU:HB2	1:F:614:PRO:HA	1.98	0.44
1:F:1045:THR:O	1:F:1048:GLN:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1241:LEU:HB3	1:F:1256:TRP:CZ3	2.53	0.44
1:F:1297:PHE:HA	1:F:1300:SER:HG	1.82	0.44
1:F:1404:LYS:HA	1:F:1407:LYS:NZ	2.30	0.44
1:F:1457:GLN:HB3	1:F:1460:ARG:NH2	2.31	0.44
1:F:1745:LYS:HA	1:F:1748:ASP:OD2	2.17	0.44
1:F:2196:TRP:HB2	1:F:2199:LEU:HD23	1.98	0.44
1:F:2217:ASN:HA	1:F:2220:MET:SD	2.57	0.44
1:F:2225:HIS:O	1:F:2227:LYS:N	2.49	0.44
1:F:3564:GLN:O	1:F:3569:GLN:NE2	2.38	0.44
1:F:3995:PRO:O	1:F:3999:THR:OG1	2.26	0.44
1:F:4089:ILE:HA	1:F:4092:GLN:NE2	2.33	0.44
2:G:131:PHE:HA	2:G:134:MET:HG2	1.99	0.44
2:G:203:MET:HE1	2:G:238:LYS:H	1.81	0.44
2:G:487:PHE:HB2	2:G:488:ARG:NH1	2.32	0.44
3:H:74:TYR:O	3:H:77:ILE:HD12	2.17	0.44
1:A:99:LYS:HD2	1:A:141:SER:HB2	1.99	0.44
1:A:135:LEU:HD23	1:A:177:LEU:HD13	1.99	0.44
1:A:251:PHE:CZ	1:A:285:CYS:HB3	2.45	0.44
1:A:313:LEU:O	1:A:316:LEU:N	2.49	0.44
1:A:338:LEU:HD12	1:A:339:GLN:N	2.33	0.44
1:A:357:LYS:HE3	1:A:408:TYR:HD2	1.83	0.44
1:A:457:CYS:O	1:A:461:ILE:HD12	2.17	0.44
1:A:1301:ILE:HG23	1:A:1330:TYR:CZ	2.52	0.44
1:A:2211:LEU:O	1:A:2215:LEU:HG	2.16	0.44
1:A:2572:TYR:CE1	1:A:2788:SER:HA	2.52	0.44
1:A:3067:LYS:HD3	1:A:3067:LYS:N	2.33	0.44
1:A:3252:PHE:HD2	1:A:3256:MET:HE1	1.82	0.44
1:A:3365:SER:O	1:A:3373:VAL:HA	2.18	0.44
2:B:41:LEU:O	2:B:169:PHE:HD1	2.00	0.44
2:B:66:CYS:SG	2:B:67:ILE:N	2.91	0.44
2:B:350:PHE:HB3	2:B:394:VAL:HG22	1.98	0.44
2:B:473:TYR:CD2	3:C:350:GLN:HB3	2.52	0.44
3:C:348:SER:OG	3:C:390:VAL:HG13	2.17	0.44
3:C:534:LYS:HD3	3:C:534:LYS:C	2.43	0.44
3:C:618:ASN:OD1	3:C:619:HIS:N	2.47	0.44
1:F:144:MET:C	1:F:146:GLU:H	2.25	0.44
1:F:708:VAL:HG22	1:F:740:ILE:CG1	2.47	0.44
1:F:828:LYS:NZ	1:F:830:VAL:HG22	2.32	0.44
1:F:1435:ASN:HB3	1:F:1440:ASP:OD2	2.17	0.44
1:F:1625:HIS:HA	1:F:1628:LYS:NZ	2.29	0.44
1:F:1685:ASP:OD1	1:F:1688:LEU:HG	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1801:VAL:HA	1:F:1804:MET:HE3	1.99	0.44
1:F:1981:LEU:HD13	1:F:1981:LEU:HA	1.90	0.44
1:F:2223:VAL:HG22	1:F:2224:PHE:H	1.82	0.44
1:F:2312:TYR:CE2	1:F:2314:GLU:HB3	2.52	0.44
1:F:2330:VAL:HG11	1:F:2336:ILE:HG22	1.99	0.44
1:F:3275:SER:HA	1:F:3278:GLN:NE2	2.32	0.44
1:F:3567:VAL:O	1:F:3571:PHE:N	2.39	0.44
1:F:3592:VAL:O	1:F:3595:GLU:HG2	2.17	0.44
2:G:44:ALA:O	2:G:139:SER:OG	2.27	0.44
2:G:49:PHE:HA	2:G:60:PHE:HB2	1.99	0.44
2:G:482:VAL:O	2:G:486:HIS:ND1	2.49	0.44
3:H:510:GLN:HA	3:H:513:TRP:CZ3	2.53	0.44
3:H:524:THR:O	3:H:528:ILE:HG12	2.17	0.44
3:H:686:ILE:HG23	3:H:699:GLU:HG3	1.99	0.44
4:J:36:DG:H22	5:I:21:DA:P	2.39	0.44
1:A:721:TYR:O	1:A:726:LEU:HD22	2.17	0.44
1:A:737:PRO:O	1:A:741:ILE:HD12	2.18	0.44
1:A:1050:GLU:OE1	1:A:1050:GLU:N	2.27	0.44
1:A:1135:CYS:O	1:A:1139:GLU:HG3	2.17	0.44
1:A:1378:GLU:HG3	1:A:1381:SER:H	1.83	0.44
1:A:1584:GLN:HA	1:A:1584:GLN:OE1	2.17	0.44
1:A:1724:MET:CE	3:C:622:GLN:HB2	2.48	0.44
1:A:1777:LEU:O	1:A:1780:SER:OG	2.29	0.44
1:A:2587:GLN:C	1:A:2776:ARG:HG3	2.42	0.44
1:A:3008:TRP:CE2	1:A:3050:LYS:HD2	2.53	0.44
1:A:3555:VAL:HG12	1:A:3559:LYS:HD3	1.98	0.44
1:A:3749:PRO:HG2	1:A:3805:TRP:HB3	1.99	0.44
1:A:3849:LYS:HE2	1:A:3854:ALA:HB2	1.99	0.44
2:B:126:GLN:HA	2:B:129:LYS:HD2	1.98	0.44
2:B:285:PRO:HA	3:C:314:PHE:CE1	2.53	0.44
2:B:459:VAL:HA	2:B:462:MET:HE2	2.00	0.44
3:C:206:GLU:HA	3:C:209:LYS:HE2	1.98	0.44
3:C:352:GLN:HG3	3:C:354:ARG:N	2.28	0.44
1:F:233:ASN:OD1	1:F:278:HIS:NE2	2.51	0.44
1:F:446:PHE:CD2	1:F:527:TYR:HA	2.52	0.44
1:F:1122:GLY:HA2	1:F:1125:GLN:NE2	2.32	0.44
1:F:1220:LEU:HD22	1:F:1284:THR:HG23	2.00	0.44
1:F:1811:ARG:HD3	1:F:1811:ARG:HA	1.72	0.44
1:F:1831:CYS:SG	1:F:1883:ARG:HD2	2.57	0.44
1:F:1933:LEU:HD12	1:F:1933:LEU:HA	1.84	0.44
1:F:2342:CYS:SG	1:F:2377:ARG:NH2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2363:CYS:HA	1:F:2366:LYS:HZ1	1.83	0.44
1:F:2373:PRO:HA	1:F:2404:ARG:NH1	2.33	0.44
1:F:2405:VAL:HG21	1:F:2442:MET:HA	2.00	0.44
1:F:2791:ILE:HG13	1:F:2792:THR:N	2.32	0.44
1:F:3498:TRP:HB2	1:F:3502:MET:HE1	2.00	0.44
1:F:3568:ILE:O	1:F:3572:ILE:HG13	2.18	0.44
1:F:3873:LYS:O	1:F:3876:SER:HB2	2.17	0.44
1:F:3988:LEU:HD12	1:F:3991:PHE:HD2	1.83	0.44
1:F:4081:ALA:O	1:F:4110:GLN:NE2	2.43	0.44
2:G:334:THR:HA	2:G:337:LEU:HD12	1.99	0.44
3:H:153:SER:HA	3:H:156:LYS:NZ	2.33	0.44
3:H:263:ALA:HB1	3:H:362:LEU:HD11	2.00	0.44
3:H:462:SER:HB3	3:H:465:LYS:HG3	1.99	0.44
5:I:29:DA:H1'	5:I:30:DA:H5'	2.00	0.44
1:A:390:GLN:HA	1:A:394:GLN:NE2	2.32	0.44
1:A:818:LEU:C	1:A:820:ARG:H	2.25	0.44
1:A:1294:VAL:HA	1:A:1297:PHE:CE2	2.52	0.44
1:A:2428:ASP:OD2	1:A:2431:ARG:NE	2.48	0.44
1:A:2555:LEU:HD23	1:A:2809:PHE:HB3	1.99	0.44
1:A:3261:GLU:H	1:A:3261:GLU:CD	2.25	0.44
1:A:3929:MET:O	1:A:3937:VAL:HA	2.17	0.44
1:A:4065:LEU:HD13	1:A:4074:PHE:CZ	2.52	0.44
1:A:6009:UNK:O	1:A:6013:UNK:N	2.51	0.44
2:B:274:TYR:O	2:B:367:PHE:N	2.50	0.44
2:B:318:ARG:NH1	2:B:331:LYS:HE3	2.32	0.44
2:B:461:LYS:HE3	2:B:527:GLU:H	1.83	0.44
3:C:357:MET:HB2	3:C:423:GLN:HB3	2.00	0.44
3:C:599:ARG:HH21	3:C:645:GLU:HG3	1.82	0.44
1:F:355:ASN:CG	1:F:357:LYS:HB3	2.43	0.44
1:F:678:LYS:HZ3	1:F:683:PHE:H	1.65	0.44
1:F:1710:LEU:O	1:F:1714:LEU:HG	2.17	0.44
1:F:2426:HIS:NE2	1:F:2428:ASP:OD2	2.49	0.44
1:F:2553:HIS:O	1:F:2555:LEU:N	2.51	0.44
1:F:2559:THR:O	1:F:2562:LEU:HG	2.18	0.44
1:F:3365:SER:OG	1:F:3373:VAL:HA	2.17	0.44
1:F:3555:VAL:HG12	1:F:3559:LYS:HZ1	1.81	0.44
1:F:3745:GLU:O	1:F:3746:ARG:HD2	2.18	0.44
2:G:122:PHE:O	2:G:127:GLY:HA3	2.17	0.44
2:G:258:ARG:HD3	2:G:258:ARG:H	1.83	0.44
2:G:299:LYS:HE3	3:H:294:VAL:N	2.33	0.44
2:G:350:PHE:HB3	2:G:394:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:16:VAL:HA	3:H:31:PHE:HE2	1.82	0.44
6:D:20:DT:C4	7:E:37:DT:O4	2.70	0.44
6:D:21:DA:H2"	6:D:22:DG:H8	1.82	0.44
1:A:207:GLN:OE1	1:A:220:LEU:HD22	2.17	0.44
1:A:355:ASN:HD22	1:A:358:GLU:HB2	1.82	0.44
1:A:410:MET:N	1:A:411:PRO:HD2	2.32	0.44
1:A:414:LEU:HD23	1:A:414:LEU:H	1.83	0.44
1:A:529:ASP:O	1:A:533:HIS:ND1	2.51	0.44
1:A:664:SER:HB3	1:A:728:SER:CB	2.48	0.44
1:A:850:GLU:O	1:A:854:ARG:HD3	2.18	0.44
1:A:856:VAL:O	1:A:859:LEU:HB2	2.17	0.44
1:A:1141:LYS:HB2	1:A:1141:LYS:HE3	1.83	0.44
1:A:1450:ALA:O	1:A:1453:SER:OG	2.36	0.44
1:A:1754:GLN:HE22	1:A:1788:ARG:HH21	1.65	0.44
1:A:1762:MET:SD	1:A:1763:THR:N	2.91	0.44
1:A:1769:GLU:HG2	1:A:1772:HIS:HB2	2.00	0.44
1:A:1915:LEU:HA	1:A:1918:LEU:HD12	1.99	0.44
1:A:2120:ARG:HH22	1:A:2160:TYR:HA	1.81	0.44
1:A:2299:TYR:O	1:A:2303:LEU:HG	2.18	0.44
1:A:2353:GLN:N	1:A:2353:GLN:OE1	2.50	0.44
1:A:2527:HIS:CE1	1:A:2529:THR:HG23	2.52	0.44
1:A:2864:GLN:HG3	1:A:2865:HIS:CD2	2.52	0.44
1:A:2981:TRP:HB2	1:A:2985:GLU:HA	2.00	0.44
1:A:3357:ARG:C	1:A:3359:ILE:H	2.25	0.44
1:A:3492:CYS:O	1:A:3494:GLN:HG2	2.17	0.44
1:A:3794:VAL:HG13	1:A:3796:MET:HE3	1.99	0.44
2:B:262:LYS:HZ2	2:B:264:ASN:HA	1.83	0.44
2:B:301:ARG:N	3:C:292:GLU:O	2.45	0.44
3:C:166:PRO:HG2	3:C:167:PHE:CE2	2.53	0.44
3:C:427:MET:SD	3:C:428:GLU:N	2.91	0.44
1:F:236:LYS:NZ	1:F:237:SER:O	2.42	0.44
1:F:547:ASP:OD1	1:F:547:ASP:N	2.43	0.44
1:F:687:SER:H	1:F:701:TYR:HE1	1.64	0.44
1:F:996:THR:O	1:F:1044:ILE:HD11	2.18	0.44
1:F:1013:ILE:C	1:F:1016:GLY:H	2.26	0.44
1:F:1111:LEU:HD22	1:F:1124:ILE:HG13	1.99	0.44
1:F:1287:GLN:HE22	1:F:1289:SER:HA	1.82	0.44
1:F:1342:MET:HE1	1:F:1372:LEU:HD21	1.99	0.44
1:F:1425:ALA:HB3	1:F:1467:ILE:HG23	2.00	0.44
1:F:2327:LEU:HG	1:F:2371:PHE:CG	2.53	0.44
1:F:2505:VAL:HA	1:F:2508:GLN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2817:LEU:HB3	1:F:2865:HIS:CE1	2.52	0.44
1:F:3495:PHE:HD1	1:F:3498:TRP:HD1	1.64	0.44
1:F:3593:ARG:HA	1:F:3596:LEU:HD23	1.99	0.44
1:F:3879:PRO:HG2	1:F:3882:LEU:HD23	2.00	0.44
1:F:4112:THR:HA	1:F:4117:LEU:HD11	2.00	0.44
2:G:204:HIS:NE2	2:G:213:ILE:HB	2.33	0.44
2:G:341:ASP:OD1	2:G:341:ASP:N	2.51	0.44
1:A:151:GLU:HG2	1:A:152:LEU:HD22	2.00	0.44
1:A:340:TYR:O	1:A:341:PHE:C	2.60	0.44
1:A:528:VAL:HG13	1:A:532:ARG:NH2	2.32	0.44
1:A:992:ILE:O	1:A:996:THR:HG23	2.18	0.44
1:A:1814:PHE:HA	1:A:1817:GLN:CD	2.43	0.44
1:A:1901:HIS:ND1	1:A:1903:SER:OG	2.47	0.44
1:A:1909:ASN:HB3	1:A:1913:LYS:HE3	2.00	0.44
1:A:1916:ILE:HB	3:H:728:LEU:HD12	1.99	0.44
1:A:2142:ILE:O	1:A:2146:LEU:HG	2.17	0.44
1:A:2263:LYS:NZ	1:A:2265:PRO:HA	2.33	0.44
1:A:2330:VAL:HB	1:A:2336:ILE:HG13	1.98	0.44
1:A:2357:GLU:O	1:A:2360:PHE:N	2.51	0.44
1:A:2388:LYS:O	1:A:2388:LYS:HD3	2.18	0.44
1:A:3292:GLY:HA2	1:A:3295:GLU:OE2	2.18	0.44
1:A:3367:SER:CB	1:A:3372:LYS:HB2	2.47	0.44
1:A:3494:GLN:HB2	1:A:3495:PHE:CD2	2.52	0.44
1:A:3626:GLY:O	1:A:3630:ARG:N	2.30	0.44
1:A:3632:PHE:O	1:A:3635:THR:HG22	2.18	0.44
1:A:3692:VAL:HA	1:A:3696:ARG:NH2	2.32	0.44
1:A:3815:LEU:HA	1:A:3818:ASN:HB2	2.00	0.44
2:B:221:ILE:H	2:B:221:ILE:HD12	1.82	0.44
2:B:298:THR:HA	3:C:295:TYR:CD1	2.53	0.44
2:B:317:LYS:HZ3	2:B:328:ILE:HG22	1.83	0.44
3:C:85:LEU:HD12	3:C:86:PRO:HD2	2.00	0.44
3:C:194:LEU:HD22	3:C:205:LEU:HD11	1.99	0.44
1:F:266:ALA:HB2	1:F:305:ASN:ND2	2.32	0.44
1:F:1298:LEU:HD23	1:F:1367:HIS:CD2	2.46	0.44
1:F:1437:TYR:O	1:F:1502:SER:OG	2.28	0.44
1:F:2196:TRP:CB	1:F:2199:LEU:HB2	2.46	0.44
1:F:2376:ASP:CG	1:F:2404:ARG:HH22	2.26	0.44
1:F:3031:TRP:C	1:F:3034:PRO:HD2	2.43	0.44
1:F:3477:GLU:CD	1:F:3477:GLU:C	2.86	0.44
1:F:3519:GLU:OE2	1:F:3557:ARG:NE	2.50	0.44
1:F:3572:ILE:HA	1:F:3575:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3719:ILE:HD12	1:F:3719:ILE:H	1.83	0.44
1:F:4084:SER:H	1:F:4088:ASN:HB2	1.82	0.44
2:G:271:VAL:CG1	2:G:370:PRO:CA	2.57	0.44
6:D:32:DT:H6	6:D:32:DT:H2'	1.65	0.44
7:E:36:DA:C8	7:E:37:DT:H71	2.53	0.44
1:A:67:VAL:HA	1:A:70:ARG:NH2	2.33	0.44
1:A:154:SER:O	1:A:157:TYR:HB3	2.17	0.44
1:A:675:ARG:O	1:A:679:LYS:N	2.47	0.44
1:A:944:LYS:HA	1:A:944:LYS:HD2	1.73	0.44
1:A:1436:LEU:HD11	1:A:1490:GLY:O	2.17	0.44
1:A:2447:LYS:HD3	1:A:2447:LYS:C	2.43	0.44
1:A:2944:THR:HG23	1:A:2944:THR:O	2.17	0.44
1:A:2966:SER:O	1:A:2970:LYS:HG2	2.17	0.44
1:A:2993:PHE:O	1:A:2996:LEU:HG	2.18	0.44
1:A:3147:LYS:HD3	1:A:3149:GLY:H	1.83	0.44
1:A:3660:ASN:O	1:A:3663:THR:OG1	2.32	0.44
1:A:3784:ARG:NE	1:A:3784:ARG:HA	2.33	0.44
1:A:3833:ARG:C	1:A:3836:PRO:HD2	2.43	0.44
1:A:4049:ARG:HA	1:A:4052:ALA:HB3	1.99	0.44
2:B:88:TYR:HB2	2:B:146:VAL:HG22	2.00	0.44
2:B:350:PHE:O	3:C:462:SER:HA	2.17	0.44
2:B:514:MET:HA	2:B:517:ARG:CB	2.48	0.44
3:C:35:LYS:HE3	3:C:95:GLU:HA	1.98	0.44
3:C:406:GLY:HA3	3:C:422:VAL:O	2.18	0.44
3:C:492:GLN:O	3:C:496:HIS:HB2	2.18	0.44
3:C:496:HIS:O	3:C:500:HIS:HB2	2.18	0.44
3:C:640:ARG:HG3	3:C:685:LEU:HD11	1.99	0.44
1:F:294:PHE:O	1:F:298:LEU:HD23	2.18	0.44
1:F:397:LEU:O	1:F:437:HIS:NE2	2.42	0.44
1:F:430:VAL:O	1:F:433:PRO:HD2	2.17	0.44
1:F:438:LEU:HA	1:F:441:MET:HE3	2.00	0.44
1:F:781:ASP:OD1	1:F:784:VAL:HG12	2.18	0.44
1:F:867:ASN:OD1	1:F:868:LYS:N	2.51	0.44
1:F:1071:ASN:HB3	1:F:1074:LYS:CG	2.40	0.44
1:F:1082:PHE:HA	1:F:1085:ILE:CG1	2.47	0.44
1:F:1155:ARG:NH2	1:F:3690:PHE:O	2.50	0.44
1:F:1247:PRO:HA	1:F:1314:GLY:HA2	2.00	0.44
1:F:1528:LEU:O	1:F:1532:LEU:HG	2.17	0.44
1:F:1986:ARG:HA	1:F:2184:TYR:HB3	1.99	0.44
1:F:3264:LYS:HA	1:F:3267:LYS:HE2	2.00	0.44
1:F:3385:LEU:O	1:F:3389:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3758:LEU:H	1:F:3795:PRO:HB3	1.83	0.44
1:F:3770:VAL:O	1:F:3774:ILE:HG13	2.18	0.44
1:F:3818:ASN:HA	1:F:3825:LYS:NZ	2.32	0.44
1:F:3970:LEU:HD12	1:F:3971:MET:N	2.33	0.44
3:H:527:GLN:HA	3:H:530:LEU:HB3	1.99	0.44
7:E:39:DA:H2'	7:E:40:DT:H71	2.00	0.44
1:A:207:GLN:HA	1:A:207:GLN:HE21	1.83	0.43
1:A:522:PRO:O	1:A:523:THR:OG1	2.31	0.43
1:A:1057:LYS:HG2	1:A:1061:LYS:NZ	2.33	0.43
1:A:1324:PRO:HG2	1:A:1325:GLN:OE1	2.18	0.43
1:A:1537:VAL:HG23	1:A:1553:PHE:C	2.36	0.43
1:A:2576:MET:HB2	1:A:2783:ILE:HG22	2.00	0.43
1:A:3327:ASN:HD21	1:A:3387:GLU:HG2	1.83	0.43
1:A:3349:ALA:O	1:A:3357:ARG:NH1	2.51	0.43
1:A:3499:ILE:H	1:A:3499:ILE:HD12	1.83	0.43
1:A:3710:LYS:NZ	1:A:3713:PRO:HG3	2.32	0.43
1:A:4079:ALA:O	1:A:4083:GLY:N	2.51	0.43
1:A:4101:GLU:HA	1:A:4104:VAL:HG22	2.00	0.43
2:B:46:LYS:O	2:B:48:MET:N	2.51	0.43
3:C:212:MET:HE1	3:C:220:GLY:HA2	1.99	0.43
3:C:233:LYS:HD3	3:C:478:PRO:HG2	2.00	0.43
1:F:78:PHE:HB3	1:F:82:ARG:NH1	2.33	0.43
1:F:726:LEU:HA	1:F:729:CYS:SG	2.58	0.43
1:F:933:LEU:HD11	1:F:2797:VAL:HG11	1.99	0.43
1:F:990:GLN:HA	1:F:2779:ASP:O	2.18	0.43
1:F:1070:PRO:HG3	1:F:3720:ALA:O	2.18	0.43
1:F:1292:LYS:HG3	1:F:1296:PHE:CZ	2.53	0.43
1:F:1487:VAL:HG22	1:F:1559:PHE:CD1	2.53	0.43
1:F:1488:TYR:HA	1:F:1559:PHE:HZ	1.82	0.43
1:F:1590:THR:HG22	1:F:1632:TRP:CZ2	2.53	0.43
1:F:1725:GLN:HG3	1:F:1728:GLU:H	1.82	0.43
1:F:2286:PRO:HG2	1:F:2289:ASP:HB2	2.00	0.43
1:F:2451:LEU:O	1:F:2455:LEU:HG	2.17	0.43
1:F:3810:VAL:HG11	1:F:3815:LEU:HD22	2.00	0.43
2:G:461:LYS:HG2	2:G:525:PHE:HB3	1.99	0.43
3:H:11:VAL:N	3:H:133:GLU:OE1	2.43	0.43
3:H:168:SER:O	3:H:194:LEU:HB3	2.18	0.43
3:H:674:PHE:CD1	3:H:676:GLU:HG2	2.53	0.43
1:A:201:LEU:HD12	1:A:202:GLY:N	2.33	0.43
1:A:899:ARG:NH2	1:A:2568:MET:HB3	2.33	0.43
1:A:939:MET:HA	1:A:942:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1297:PHE:HA	1:A:1300:SER:CB	2.48	0.43
1:A:1309:ALA:HA	1:A:1311:LYS:HZ3	1.84	0.43
1:A:1497:ARG:NH2	1:A:1541:ALA:HB2	2.33	0.43
1:A:1589:ASN:ND2	1:A:1593:VAL:HG13	2.33	0.43
1:A:1616:LEU:HD12	1:A:1617:LYS:N	2.32	0.43
1:A:1715:GLU:O	1:A:1719:VAL:HG22	2.18	0.43
1:A:1850:VAL:CG1	1:A:1870:LYS:HG2	2.48	0.43
1:A:2368:THR:OG1	1:A:2400:VAL:HG23	2.18	0.43
1:A:2432:GLN:O	1:A:2436:LEU:HD23	2.18	0.43
1:A:2900:LEU:HD23	1:A:2900:LEU:H	1.82	0.43
1:A:3846:MET:HE1	1:A:3866:GLU:OE1	2.19	0.43
1:A:3951:GLN:OE1	1:A:3951:GLN:N	2.52	0.43
2:B:328:ILE:HD12	3:C:279:VAL:HG21	1.99	0.43
3:C:40:MET:HA	3:C:43:GLN:CD	2.43	0.43
1:F:393:LYS:HA	1:F:397:LEU:HD23	2.00	0.43
1:F:451:PRO:O	1:F:455:LEU:N	2.51	0.43
1:F:566:ASP:O	1:F:570:LYS:HG2	2.18	0.43
1:F:572:VAL:O	1:F:576:VAL:HG23	2.18	0.43
1:F:746:ARG:O	1:F:749:VAL:HG22	2.18	0.43
1:F:1366:THR:H	1:F:1369:MET:CE	2.31	0.43
1:F:1594:SER:O	1:F:1598:ASN:ND2	2.52	0.43
1:F:1922:ALA:O	1:F:1925:GLU:HB2	2.18	0.43
1:F:1925:GLU:OE2	1:F:1927:MET:HB2	2.18	0.43
1:F:2232:ARG:O	1:F:2233:HIS:C	2.60	0.43
1:F:2424:MET:HA	1:F:2432:GLN:HE22	1.83	0.43
1:F:2452:ARG:HB3	1:F:2498:ILE:CG1	2.48	0.43
1:F:2453:GLU:HG2	1:F:2454:LEU:HD22	1.99	0.43
1:F:2467:THR:HA	1:F:2470:ARG:HH21	1.82	0.43
1:F:2507:ILE:HG23	1:F:2547:SER:HB2	2.01	0.43
1:F:2820:MET:SD	1:F:2829:LYS:HG2	2.58	0.43
1:F:3252:PHE:O	1:F:3255:ALA:N	2.49	0.43
1:F:3256:MET:SD	1:F:3283:LEU:HD22	2.57	0.43
1:F:3875:GLU:HA	1:F:3878:VAL:HB	1.99	0.43
1:F:3925:LEU:HD23	1:F:3925:LEU:O	2.18	0.43
2:G:48:MET:O	2:G:60:PHE:N	2.51	0.43
2:G:351:LYS:N	2:G:395:ALA:O	2.34	0.43
2:G:415:PRO:HA	2:G:432:PHE:HD1	1.81	0.43
3:H:114:SER:HA	3:H:117:VAL:HG22	2.00	0.43
3:H:405:VAL:HG22	3:H:426:PHE:CZ	2.53	0.43
1:A:938:VAL:O	1:A:942:LEU:HG	2.18	0.43
1:A:1010:LEU:O	1:A:1014:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1866:GLN:O	1:A:1870:LYS:HG3	2.18	0.43
1:A:1892:LYS:O	1:A:1907:GLU:HA	2.18	0.43
1:A:1976:LEU:HD21	1:A:2141:ASN:C	2.43	0.43
1:A:2094:MET:HE2	1:A:2145:PHE:CZ	2.54	0.43
1:A:2267:SER:OG	1:A:2268:LYS:N	2.50	0.43
1:A:2363:CYS:SG	1:A:2364:LEU:N	2.90	0.43
1:A:2440:TYR:HB2	1:A:2476:ILE:HD11	2.00	0.43
1:A:2572:TYR:HB3	1:A:2573:PRO:HD3	2.00	0.43
1:A:2944:THR:HA	1:A:2948:GLY:CA	2.45	0.43
1:A:3111:MET:SD	1:A:3112:GLN:N	2.91	0.43
1:A:3192:LYS:O	1:A:3196:LYS:NZ	2.52	0.43
1:A:3681:LYS:NZ	1:A:3726:VAL:HG13	2.32	0.43
1:A:3924:HIS:HD2	1:A:3926:ASN:HB2	1.79	0.43
2:B:363:ARG:HB2	2:B:436:PHE:CE2	2.45	0.43
3:C:395:TYR:HB3	3:C:404:GLN:HB2	1.99	0.43
1:F:344:GLN:O	1:F:346:TYR:N	2.51	0.43
1:F:669:LEU:O	1:F:673:THR:HG23	2.18	0.43
1:F:1048:GLN:O	1:F:1052:SER:OG	2.27	0.43
1:F:1282:LEU:HD23	1:F:1282:LEU:H	1.83	0.43
1:F:1634:ALA:N	1:F:1637:SER:OG	2.45	0.43
1:F:1877:LEU:HD12	1:F:1878:ASP:N	2.34	0.43
1:F:2140:LEU:HD12	1:F:2141:ASN:N	2.33	0.43
1:F:3065:ILE:HG12	1:F:3086:LEU:HD11	2.01	0.43
1:F:3571:PHE:HD1	1:F:3686:TRP:HZ3	1.66	0.43
1:F:3575:LEU:HD22	1:F:3752:VAL:HG21	2.00	0.43
1:F:4037:ASN:HB3	1:F:4039:TYR:CE2	2.53	0.43
2:G:372:GLU:OE1	2:G:377:GLY:N	2.43	0.43
2:G:417:GLU:N	2:G:417:GLU:OE1	2.51	0.43
3:H:164:PHE:CE1	3:H:225:TYR:HB3	2.53	0.43
3:H:213:ILE:O	3:H:217:GLY:HA2	2.18	0.43
6:D:18:DA:C4	7:E:39:DA:N1	2.86	0.43
1:A:162:LEU:HD12	2:B:299:LYS:CD	2.48	0.43
1:A:216:LYS:HA	1:A:216:LYS:HE3	2.00	0.43
1:A:394:GLN:HA	1:A:398:THR:HG21	2.00	0.43
1:A:710:PHE:O	1:A:714:VAL:HG22	2.19	0.43
1:A:933:LEU:CD2	1:A:2793:PRO:HB2	2.49	0.43
1:A:1394:HIS:HE1	1:A:1398:VAL:HB	1.83	0.43
1:A:1534:ASN:OD1	1:A:1534:ASN:N	2.51	0.43
1:A:1672:PHE:HD1	1:A:1699:PHE:CE1	2.36	0.43
1:A:1858:LEU:HD11	1:A:1932:GLN:OE1	2.18	0.43
1:A:2097:LEU:HD22	1:A:2149:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2128:PHE:O	1:A:2132:LYS:HG3	2.19	0.43
1:A:3165:THR:HA	1:A:3168:TYR:CE2	2.54	0.43
1:A:3358:ARG:HA	1:A:3361:GLU:CD	2.43	0.43
1:A:3369:ASP:OD1	1:A:3369:ASP:N	2.51	0.43
1:A:3591:ASP:HA	1:A:3594:ALA:HB3	2.00	0.43
1:A:3915:HIS:O	1:A:3919:GLY:N	2.50	0.43
1:A:3931:ALA:O	1:A:3935:GLY:N	2.51	0.43
2:B:142:SER:O	2:B:146:VAL:HG23	2.19	0.43
3:C:58:LEU:O	3:C:77:ILE:HA	2.17	0.43
3:C:295:TYR:H	3:C:304:GLU:CD	2.25	0.43
1:F:13:LEU:HD22	1:F:59:PHE:CD1	2.39	0.43
1:F:374:LYS:O	1:F:378:ALA:HB2	2.18	0.43
1:F:1560:TYR:CE1	1:F:1596:VAL:HG12	2.53	0.43
1:F:1893:GLU:OE2	1:F:1895:LYS:NZ	2.42	0.43
1:F:1959:LEU:C	1:F:1961:PHE:H	2.26	0.43
1:F:2147:ALA:HB2	1:F:2171:LEU:HD21	2.00	0.43
1:F:2185:MET:HA	1:F:2188:GLU:HG2	2.01	0.43
1:F:2468:THR:C	1:F:2472:GLN:HE21	2.27	0.43
1:F:2514:ASN:OD1	1:F:2517:LEU:HG	2.19	0.43
1:F:2553:HIS:CE1	1:F:2557:LEU:HD11	2.54	0.43
1:F:3123:GLN:HA	1:F:3126:LEU:HD13	1.99	0.43
1:F:3340:ALA:O	1:F:3343:SER:OG	2.28	0.43
1:F:3500:SER:HA	1:F:3503:VAL:HG12	2.00	0.43
1:F:3669:LYS:HG3	1:F:3670:MET:SD	2.58	0.43
1:F:3913:ILE:HB	1:F:3984:MET:HG3	1.99	0.43
1:F:4089:ILE:O	1:F:4093:GLU:HG2	2.18	0.43
2:G:239:LEU:HA	2:G:242:LEU:HD22	1.99	0.43
2:G:285:PRO:HB3	3:H:312:GLN:HB3	2.00	0.43
2:G:306:SER:HB3	3:H:288:ASP:OD2	2.18	0.43
2:G:339:ARG:HD3	2:G:340:PHE:N	2.33	0.43
3:H:233:LYS:HA	3:H:481:LYS:NZ	2.33	0.43
3:H:271:ARG:H	3:H:273:LYS:HZ2	1.65	0.43
3:H:529:PRO:O	3:H:533:ILE:HD12	2.18	0.43
4:J:21:DA:C6	5:I:36:DA:N6	2.87	0.43
1:A:173:LYS:O	1:A:176:GLU:HB2	2.19	0.43
1:A:270:ALA:O	1:A:273:ARG:HG2	2.19	0.43
1:A:829:VAL:HG23	1:A:830:VAL:HG23	2.00	0.43
1:A:881:LYS:HG2	1:A:883:TYR:HB2	2.00	0.43
1:A:886:TRP:HZ3	1:A:911:LEU:HB3	1.82	0.43
1:A:1202:ARG:O	1:A:1207:TRP:HB2	2.18	0.43
1:A:2087:GLU:OE1	1:A:2090:ARG:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3236:PHE:CE2	1:A:3272:TRP:HA	2.53	0.43
1:A:3511:ALA:HB1	1:A:3514:VAL:CG2	2.48	0.43
1:A:3733:ARG:C	1:A:3734:ARG:HG2	2.44	0.43
1:A:3860:LYS:HD3	1:A:4073:ALA:N	2.34	0.43
1:A:3951:GLN:NE2	1:A:4063:GLU:OE2	2.52	0.43
1:A:3983:ILE:HG22	1:A:3984:MET:HE2	1.99	0.43
1:A:4089:ILE:HG23	1:A:4092:GLN:NE2	2.34	0.43
2:B:344:GLY:C	2:B:399:ARG:HH12	2.20	0.43
3:C:250:ARG:HH11	3:C:260:ARG:HH12	1.65	0.43
3:C:411:HIS:O	3:C:417:GLU:HB3	2.19	0.43
1:F:188:GLU:HG2	1:F:189:MET:SD	2.58	0.43
1:F:291:VAL:HG13	1:F:344:GLN:NE2	2.34	0.43
1:F:535:LEU:HB3	1:F:637:LYS:HE3	1.99	0.43
1:F:1579:VAL:O	1:F:1583:MET:HB2	2.18	0.43
1:F:1608:ARG:HE	1:F:1608:ARG:HB3	1.65	0.43
1:F:2328:ARG:CD	1:F:2333:ARG:HD3	2.44	0.43
1:F:2522:ARG:HG3	1:F:2523:ASN:N	2.32	0.43
1:F:2824:LYS:HA	1:F:2824:LYS:HD3	1.65	0.43
1:F:3559:LYS:HB2	1:F:3564:GLN:NE2	2.33	0.43
1:F:3766:GLN:O	1:F:3770:VAL:HG23	2.17	0.43
1:F:3822:GLN:HG2	1:F:3823:GLU:N	2.34	0.43
1:F:3982:SER:HB2	1:F:3986:HIS:CE1	2.54	0.43
1:F:4048:LYS:HA	1:F:4051:LEU:HG	2.00	0.43
2:G:76:ILE:HD13	2:G:248:ALA:HA	2.00	0.43
2:G:468:LYS:HG2	2:G:518:LEU:O	2.19	0.43
1:A:101:ALA:N	1:A:102:PRO:HD2	2.34	0.43
1:A:211:ALA:HB1	1:A:215:PRO:O	2.18	0.43
1:A:307:GLU:O	1:A:310:LYS:HE2	2.17	0.43
1:A:312:ALA:O	1:A:316:LEU:HG	2.18	0.43
1:A:377:ASN:HB3	1:A:380:ASP:OD2	2.18	0.43
1:A:452:LYS:O	1:A:455:LEU:HB2	2.18	0.43
1:A:1372:LEU:O	1:A:1375:THR:OG1	2.24	0.43
1:A:1938:ARG:HA	1:A:1941:HIS:ND1	2.33	0.43
1:A:2238:ILE:HA	1:A:2241:LEU:HB2	2.01	0.43
1:A:2258:GLU:HA	1:A:2261:SER:CB	2.49	0.43
1:A:2306:ASN:HA	1:A:2309:PHE:CZ	2.54	0.43
1:A:2918:PRO:O	1:A:2921:LEU:HB3	2.19	0.43
1:A:2952:ILE:HD11	1:A:2971:GLN:C	2.44	0.43
1:A:3252:PHE:HB2	1:A:3256:MET:HE1	2.01	0.43
1:A:3531:TYR:OH	1:A:3568:ILE:HD11	2.18	0.43
1:A:3751:LEU:HD23	1:A:3804:GLU:C	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3762:GLN:HG2	1:A:3795:PRO:HD3	2.00	0.43
1:A:3828:TYR:C	1:A:3832:PRO:HG3	2.43	0.43
2:B:239:LEU:HA	2:B:242:LEU:HD12	2.00	0.43
2:B:256:LEU:HD23	2:B:256:LEU:H	1.83	0.43
3:C:70:GLY:HA3	3:C:74:TYR:CE2	2.53	0.43
3:C:312:GLN:O	3:C:323:PHE:HB2	2.17	0.43
3:C:626:THR:HG23	3:C:632:PHE:CE2	2.54	0.43
1:F:15:LEU:O	1:F:18:THR:OG1	2.30	0.43
1:F:22:ALA:CB	1:F:34:LEU:HD21	2.49	0.43
1:F:152:LEU:HD13	1:F:155:LYS:HE3	2.00	0.43
1:F:726:LEU:O	1:F:729:CYS:HB2	2.18	0.43
1:F:854:ARG:HA	1:F:857:GLN:NE2	2.33	0.43
1:F:886:TRP:HE1	1:F:912:PRO:HB3	1.84	0.43
1:F:894:PHE:HB2	1:F:940:PHE:CE2	2.53	0.43
1:F:932:GLU:O	1:F:936:SER:N	2.49	0.43
1:F:1102:GLU:HG2	1:F:1152:ARG:CG	2.47	0.43
1:F:1157:PHE:CD1	1:F:1159:PRO:HD2	2.54	0.43
1:F:1333:SER:O	1:F:1337:VAL:HG23	2.18	0.43
1:F:1377:CYS:SG	1:F:1378:GLU:N	2.92	0.43
1:F:1489:LYS:HD2	1:F:1495:ASP:HB3	1.99	0.43
1:F:2139:PRO:O	1:F:2143:ARG:HG3	2.18	0.43
1:F:2203:THR:HB	1:F:2248:CYS:SG	2.58	0.43
1:F:2281:MET:O	1:F:2281:MET:HE3	2.19	0.43
1:F:2560:ASN:ND2	1:F:2795:GLN:HB2	2.34	0.43
1:F:2991:LYS:HA	1:F:2994:TRP:CD2	2.54	0.43
1:F:3060:SER:O	1:F:3063:THR:HB	2.17	0.43
1:F:3613:MET:HB3	1:F:3640:PHE:HE1	1.83	0.43
1:F:3830:SER:HA	1:F:3833:ARG:NH1	2.34	0.43
2:G:77:SER:HA	2:G:249:LYS:O	2.17	0.43
2:G:214:SER:HB3	2:G:218:ARG:HG2	1.99	0.43
2:G:413:LEU:HD11	2:G:432:PHE:HB3	2.01	0.43
3:H:357:MET:HE1	3:H:425:PRO:HG3	2.01	0.43
1:A:131:LEU:HD21	1:A:173:LYS:HG2	2.00	0.43
1:A:183:GLU:OE2	1:A:185:HIS:HA	2.18	0.43
1:A:230:LEU:HB3	1:A:234:PHE:CZ	2.54	0.43
1:A:524:TYR:C	1:A:526:ASP:H	2.27	0.43
1:A:753:GLN:C	1:A:757:LYS:HZ3	2.25	0.43
1:A:900:GLU:O	1:A:902:LYS:HD3	2.19	0.43
1:A:1009:LEU:HA	1:A:1012:ALA:HB3	2.01	0.43
1:A:1208:LEU:O	1:A:1211:VAL:HG22	2.18	0.43
1:A:1334:LYS:HE2	1:A:1383:GLY:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1835:ALA:HA	1:A:1838:GLU:OE2	2.19	0.43
1:A:1891:ALA:HB1	1:A:1895:LYS:H	1.83	0.43
1:A:2368:THR:HA	1:A:2371:PHE:O	2.19	0.43
1:A:2494:ASP:O	1:A:2497:GLU:HG3	2.19	0.43
1:A:2540:LEU:HD13	1:A:2543:ASN:ND2	2.26	0.43
1:A:2780:LEU:HD12	1:A:2781:PRO:HD2	2.01	0.43
1:A:2952:ILE:CG1	1:A:2971:GLN:HB3	2.49	0.43
1:A:3008:TRP:O	1:A:3011:LEU:N	2.52	0.43
1:A:3126:LEU:O	1:A:3129:LEU:HB3	2.18	0.43
1:A:3769:GLN:OE1	1:A:3790:THR:HB	2.18	0.43
1:A:3835:PRO:HG3	1:A:4127:TRP:HZ2	1.84	0.43
1:A:3963:LEU:HA	1:A:3967:PHE:HE2	1.84	0.43
2:B:414:VAL:CG1	2:B:433:GLN:HB3	2.48	0.43
3:C:104:GLN:O	3:C:141:ARG:NH2	2.51	0.43
3:C:166:PRO:HA	3:C:227:PHE:H	1.84	0.43
3:C:484:ASN:HB3	3:C:487:PHE:CD2	2.54	0.43
3:C:689:GLU:O	3:C:696:VAL:HG21	2.18	0.43
1:F:73:LEU:O	1:F:75:SER:N	2.43	0.43
1:F:317:GLU:CG	1:F:364:ARG:HH22	2.32	0.43
1:F:854:ARG:HA	1:F:857:GLN:HG2	2.00	0.43
1:F:1093:GLU:HA	1:F:1096:VAL:HG22	2.01	0.43
1:F:1305:ASP:OD1	1:F:1305:ASP:N	2.51	0.43
1:F:1418:HIS:HA	1:F:1421:GLU:HG2	2.01	0.43
1:F:1452:VAL:HG12	1:F:1456:LYS:HZ1	1.83	0.43
1:F:1577:LEU:O	1:F:1580:LEU:N	2.52	0.43
1:F:1673:THR:HA	1:F:1676:ILE:HD12	2.01	0.43
1:F:1700:THR:HG21	1:F:1757:MET:SD	2.58	0.43
1:F:1871:MET:C	1:F:1875:LYS:HZ3	2.27	0.43
1:F:2459:VAL:HG21	1:F:2505:VAL:CG1	2.49	0.43
1:F:3076:ALA:HA	1:F:3079:GLU:HG3	2.00	0.43
1:F:3081:HIS:HB2	1:F:3082:TYR:CE2	2.54	0.43
1:F:3828:TYR:CE2	1:F:3879:PRO:HD3	2.48	0.43
2:G:239:LEU:O	2:G:242:LEU:HB2	2.19	0.43
3:H:81:ARG:HD3	3:H:82:HIS:O	2.19	0.43
3:H:599:ARG:HD2	3:H:638:CYS:HB2	2.01	0.43
3:H:656:ASN:HA	3:H:688:LYS:NZ	2.34	0.43
4:J:25:DT:H2"	4:J:26:DT:C6	2.53	0.43
6:D:22:DG:C2	7:E:35:DT:O2	2.72	0.43
1:A:292:SER:HA	1:A:295:GLU:OE2	2.18	0.43
1:A:371:GLY:O	1:A:375:VAL:HG12	2.17	0.43
1:A:490:ILE:HD12	1:A:629:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:793:LEU:HB3	1:A:870:LEU:CB	2.39	0.43
1:A:1821:ASP:HA	1:A:1825:LEU:CD1	2.49	0.43
1:A:2402:LEU:HD22	1:A:2434:VAL:HB	2.01	0.43
1:A:2939:LEU:CA	1:A:2942:ILE:HG22	2.49	0.43
1:A:3499:ILE:HG21	1:A:3529:ILE:HD12	2.01	0.43
1:A:4014:LYS:HA	1:A:4017:GLU:OE1	2.18	0.43
1:A:4069:GLU:N	1:A:4069:GLU:OE1	2.51	0.43
2:B:58:THR:O	2:B:62:MET:HG3	2.19	0.43
2:B:274:TYR:HB2	2:B:367:PHE:HD2	1.83	0.43
2:B:415:PRO:HB3	2:B:432:PHE:CE1	2.54	0.43
3:C:262:ALA:HB3	3:C:368:ARG:NH1	2.34	0.43
3:C:294:VAL:O	3:C:295:TYR:HD1	2.02	0.43
3:C:528:ILE:HB	3:C:529:PRO:HD3	2.00	0.43
3:C:569:THR:O	3:C:570:GLU:HB2	2.18	0.43
3:C:658:PHE:O	3:C:662:LEU:HG	2.19	0.43
1:F:67:VAL:HA	1:F:70:ARG:CZ	2.49	0.43
1:F:135:LEU:HD23	1:F:138:PHE:CD2	2.53	0.43
1:F:186:PRO:HG2	1:F:188:GLU:OE2	2.18	0.43
1:F:292:SER:HA	1:F:295:GLU:HG3	2.00	0.43
1:F:352:VAL:HG12	1:F:1731:PRO:O	2.19	0.43
1:F:665:GLY:O	1:F:669:LEU:HG	2.19	0.43
1:F:764:PRO:O	1:F:768:VAL:HG22	2.18	0.43
1:F:888:ARG:NH2	1:F:3819:THR:HG22	2.34	0.43
1:F:901:MET:N	1:F:901:MET:SD	2.92	0.43
1:F:1645:VAL:O	1:F:1649:LEU:HG	2.19	0.43
1:F:1718:ILE:O	1:F:1722:PHE:HD1	2.02	0.43
1:F:2161:ALA:HB1	1:F:2196:TRP:CZ2	2.54	0.43
1:F:2353:GLN:HA	1:F:2356:MET:HG3	2.00	0.43
1:F:2536:LEU:HA	1:F:2539:LEU:HD13	2.00	0.43
1:F:2791:ILE:HA	1:F:2794:LEU:CD1	2.49	0.43
1:F:2859:GLN:HE21	1:F:2888:VAL:HG13	1.84	0.43
1:F:3154:GLN:O	1:F:3157:LEU:HB2	2.19	0.43
5:I:35:DT:C2'	5:I:36:DA:H5'	2.48	0.43
5:I:37:DT:H2'	5:I:38:DT:C4	2.53	0.43
1:A:170:VAL:HG23	6:D:21:DA:H5'	2.01	0.43
1:A:309:LYS:HD3	1:A:309:LYS:N	2.34	0.43
1:A:850:GLU:O	1:A:853:ILE:HB	2.18	0.43
1:A:881:LYS:NZ	1:A:884:VAL:HA	2.34	0.43
1:A:901:MET:N	1:A:901:MET:SD	2.91	0.43
1:A:934:LEU:O	1:A:938:VAL:HG13	2.19	0.43
1:A:1058:SER:HA	1:A:1061:LYS:NZ	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1105:VAL:CG1	1:A:1156:GLY:HA3	2.48	0.43
1:A:1202:ARG:CZ	1:A:1207:TRP:CD1	3.02	0.43
1:A:2100:LEU:HA	1:A:2103:HIS:HB3	2.01	0.43
1:A:2213:ASN:HD21	1:A:2249:LEU:HA	1.84	0.43
1:A:2396:LEU:O	1:A:2400:VAL:HG12	2.18	0.43
1:A:2405:VAL:HG13	1:A:2406:GLU:HG2	2.01	0.43
1:A:2919:ASP:O	1:A:2922:ARG:HG2	2.18	0.43
1:A:3047:SER:O	1:A:3051:LEU:HB2	2.19	0.43
1:A:3183:ILE:HD13	1:A:3186:ARG:HH21	1.83	0.43
1:A:3247:ARG:NH1	1:A:3282:ARG:HB2	2.34	0.43
1:A:3863:ASN:O	1:A:3867:THR:HG23	2.19	0.43
1:A:3889:ARG:HD2	1:A:3889:ARG:HA	1.78	0.43
1:A:3918:LEU:HB3	1:A:3920:ILE:HD12	2.01	0.43
1:A:4007:LYS:HA	1:A:4007:LYS:HE3	2.00	0.43
3:C:72:ASP:O	3:C:75:GLN:HG2	2.19	0.43
3:C:668:ILE:HG13	3:C:669:LYS:H	1.84	0.43
1:F:264:ARG:NH1	5:I:39:DA:H4'	2.33	0.43
1:F:848:LEU:HD23	1:F:848:LEU:H	1.84	0.43
1:F:1172:LEU:HD11	1:F:1187:SER:HB2	2.00	0.43
1:F:3361:GLU:OE1	1:F:3367:SER:N	2.37	0.43
1:F:3389:VAL:HG13	1:F:3413:TYR:HE1	1.83	0.43
3:H:45:GLN:HA	3:H:50:ASN:OD1	2.18	0.43
1:A:461:ILE:HG23	1:A:465:PHE:CE2	2.54	0.43
1:A:901:MET:HG3	1:A:2819:GLU:HG2	2.00	0.43
1:A:1065:SER:O	1:A:1068:LEU:HG	2.18	0.43
1:A:1348:LEU:HB3	1:A:1359:LEU:HD13	2.00	0.43
1:A:1418:HIS:HA	1:A:1421:GLU:CD	2.43	0.43
1:A:2295:GLN:NE2	1:A:2298:GLU:H	2.17	0.43
1:A:2319:ALA:O	1:A:2323:LEU:HD23	2.18	0.43
1:A:2575:PRO:O	1:A:2787:HIS:NE2	2.52	0.43
1:A:2851:PHE:HB3	1:A:2854:PHE:HB2	2.01	0.43
1:A:3059:GLN:HA	1:A:3062:LEU:HB3	2.00	0.43
1:A:3098:ARG:HD3	1:A:3102:TYR:CE1	2.53	0.43
1:A:3263:HIS:HB2	1:A:3276:TRP:NE1	2.34	0.43
1:A:3795:PRO:O	1:A:3796:MET:HE2	2.19	0.43
1:A:3805:TRP:C	1:A:3806:LEU:HD22	2.44	0.43
1:A:3912:CYS:HB3	1:A:3961:PHE:CD2	2.54	0.43
2:B:347:LEU:HD11	2:B:396:ALA:HB1	2.01	0.43
2:B:365:SER:OG	2:B:366:LEU:N	2.51	0.43
2:B:480:ASN:ND2	2:B:483:LEU:HB2	2.33	0.43
3:C:64:THR:HB	3:C:76:ASN:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:109:ASP:O	3:C:113:VAL:HG23	2.18	0.43
3:C:553:ILE:HG23	3:C:555:GLN:O	2.19	0.43
1:F:225:LYS:HD2	1:F:270:ALA:HB3	2.00	0.43
1:F:333:MET:HE3	1:F:335:LYS:HA	2.01	0.43
1:F:897:PRO:HG3	1:F:2787:HIS:CD2	2.54	0.43
1:F:930:ALA:HA	1:F:933:LEU:HD12	2.00	0.43
1:F:932:GLU:CG	1:F:2773:ARG:HH21	2.32	0.43
1:F:2214:ARG:HH12	1:F:2215:LEU:CD2	2.31	0.43
1:F:2295:GLN:CB	1:F:2298:GLU:HG2	2.49	0.43
1:F:2886:GLN:O	1:F:2890:ILE:N	2.41	0.43
1:F:3527:GLN:NE2	1:F:3705:TYR:OH	2.52	0.43
3:H:247:TRP:NE1	3:H:338:LYS:HD2	2.34	0.43
3:H:679:VAL:O	3:H:683:ILE:HG12	2.19	0.43
5:I:18:DG:N2	5:I:19:DC:N3	2.67	0.43
1:A:309:LYS:HA	1:A:312:ALA:HB3	2.01	0.42
1:A:730:LEU:O	1:A:733:LEU:HB2	2.18	0.42
1:A:994:TRP:HZ3	1:A:2582:SER:HB2	1.84	0.42
1:A:1148:ALA:HB1	1:A:1162:SER:HB3	2.01	0.42
1:A:1150:LYS:NZ	1:A:1162:SER:HB2	2.34	0.42
1:A:1236:LEU:O	1:A:1239:PRO:HD3	2.18	0.42
1:A:1983:ASP:OD2	1:A:2183:HIS:ND1	2.52	0.42
1:A:2091:HIS:CE1	1:A:2094:MET:N	2.87	0.42
1:A:2442:MET:SD	1:A:2442:MET:N	2.92	0.42
1:A:2803:ILE:HG23	1:A:2807:GLN:HE22	1.83	0.42
1:A:2828:GLU:O	1:A:2832:ILE:HG13	2.19	0.42
1:A:2850:PHE:CD2	1:A:2882:ALA:HB3	2.53	0.42
1:A:3185:ASN:HB3	1:A:3189:PHE:CZ	2.54	0.42
1:A:4006:VAL:HG13	1:A:4007:LYS:HD2	2.01	0.42
2:B:303:PHE:O	3:C:290:GLN:N	2.52	0.42
2:B:399:ARG:HB3	2:B:410:PHE:HD1	1.84	0.42
2:B:400:TYR:OH	2:B:402:PRO:HA	2.18	0.42
3:C:194:LEU:O	3:C:202:LYS:HG2	2.18	0.42
3:C:437:SER:HB2	3:C:440:ASN:HD21	1.84	0.42
3:C:671:LEU:HB2	3:C:674:PHE:CE1	2.53	0.42
1:F:261:ASP:N	1:F:261:ASP:OD1	2.50	0.42
1:F:304:THR:HA	1:F:309:LYS:NZ	2.34	0.42
1:F:1000:LYS:HZ1	1:F:1005:ASP:N	2.17	0.42
1:F:1039:TRP:HB3	1:F:1043:GLN:NE2	2.34	0.42
1:F:1268:ASN:OD1	1:F:1344:PHE:HA	2.19	0.42
1:F:2382:VAL:HA	1:F:2385:LEU:HG	2.01	0.42
1:F:2409:THR:HA	1:F:2445:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2569:SER:C	1:F:2571:ASP:H	2.27	0.42
1:F:2819:GLU:HA	1:F:2822:LYS:NZ	2.34	0.42
1:F:3270:ASP:HA	1:F:3273:LEU:HB3	2.01	0.42
1:F:3319:ASN:OD1	1:F:3322:ALA:N	2.51	0.42
1:F:3496:ILE:HD12	1:F:3496:ILE:H	1.84	0.42
1:F:3550:LYS:HE2	1:F:3550:LYS:HB2	1.83	0.42
1:F:3602:ASN:HB2	1:F:3651:LEU:HD13	2.01	0.42
1:F:3693:GLU:HG3	1:F:3695:LEU:H	1.84	0.42
1:F:3917:ILE:HD12	1:F:3917:ILE:HA	1.90	0.42
1:F:3953:LEU:HD11	1:F:4027:TRP:HB2	2.01	0.42
2:G:409:TYR:HB3	2:G:436:PHE:CE1	2.54	0.42
3:H:594:PRO:HA	3:H:597:ASN:ND2	2.34	0.42
7:E:28:DT:H2'	7:E:29:DA:C8	2.54	0.42
1:A:235:THR:OG1	1:A:236:LYS:N	2.52	0.42
1:A:531:PHE:N	1:A:531:PHE:CD1	2.84	0.42
1:A:721:TYR:C	1:A:722:LYS:HD3	2.43	0.42
1:A:963:LYS:HG3	1:A:964:ARG:HD2	2.02	0.42
1:A:1220:LEU:HD22	1:A:1224:PHE:CZ	2.54	0.42
1:A:1820:VAL:O	1:A:1825:LEU:HG	2.19	0.42
1:A:1884:LEU:HD12	1:A:1885:PRO:HD2	1.99	0.42
1:A:1959:LEU:HA	1:A:1961:PHE:CE2	2.54	0.42
1:A:2106:ARG:HA	1:A:2106:ARG:NH1	2.34	0.42
1:A:2136:PRO:HG2	1:A:2137:ILE:HD12	2.01	0.42
1:A:2538:ARG:HG2	1:A:2565:MET:SD	2.59	0.42
1:A:3026:ASP:OD1	1:A:3026:ASP:N	2.51	0.42
1:A:3271:ASP:N	1:A:3271:ASP:OD1	2.49	0.42
1:A:3731:SER:C	1:A:3733:ARG:H	2.27	0.42
1:A:3822:GLN:HA	1:A:3825:LYS:HB3	2.01	0.42
2:B:182:LYS:HG2	2:B:185:ARG:NH2	2.34	0.42
2:B:344:GLY:C	2:B:345:LEU:HD22	2.45	0.42
3:C:523:THR:O	3:C:527:GLN:HG2	2.20	0.42
1:F:70:ARG:HB2	1:F:78:PHE:CD2	2.54	0.42
1:F:338:LEU:HB2	3:H:567:LEU:HD23	2.00	0.42
1:F:632:GLU:OE1	1:F:632:GLU:N	2.46	0.42
1:F:1023:SER:O	1:F:1027:ASP:N	2.51	0.42
1:F:1047:GLN:HA	1:F:1050:GLU:OE1	2.19	0.42
1:F:1147:LYS:HB2	1:F:1149:LYS:NZ	2.34	0.42
1:F:1172:LEU:HG	1:F:1176:CYS:SG	2.59	0.42
1:F:2146:LEU:HA	1:F:2149:LEU:HD12	2.00	0.42
1:F:3012:GLU:HG2	1:F:3048:LYS:NZ	2.34	0.42
1:F:3298:LEU:HD21	1:F:3333:THR:OG1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3315:TYR:HA	1:F:3318:LYS:HB2	2.00	0.42
1:F:3614:TYR:HB2	1:F:3648:GLY:HA3	2.00	0.42
1:F:3713:PRO:C	1:F:3715:TYR:H	2.27	0.42
1:F:3878:VAL:HG21	1:F:4127:TRP:O	2.19	0.42
1:F:3952:PHE:CE2	1:F:4036:LYS:HB2	2.54	0.42
2:G:49:PHE:HB2	2:G:137:HIS:CE1	2.54	0.42
3:H:646:ALA:HB1	3:H:651:GLU:HB2	2.01	0.42
4:J:22:DG:N2	4:J:23:DT:C2	2.87	0.42
4:J:32:DT:H6	4:J:32:DT:H2'	1.58	0.42
6:D:16:DA:C6	7:E:42:DA:C2	3.07	0.42
6:D:19:DA:C6	6:D:20:DT:N3	2.87	0.42
1:A:493:LYS:NZ	1:A:522:PRO:HD3	2.33	0.42
1:A:898:PHE:C	1:A:902:LYS:HZ1	2.27	0.42
1:A:939:MET:HE3	1:A:2783:ILE:HG12	2.01	0.42
1:A:1139:GLU:HB2	1:A:1140:LYS:NZ	2.31	0.42
1:A:1149:LYS:H	1:A:1163:LEU:C	2.26	0.42
1:A:1301:ILE:HG23	1:A:1330:TYR:OH	2.18	0.42
1:A:1331:ASN:OD1	1:A:1334:LYS:NZ	2.52	0.42
1:A:1661:PHE:HA	1:A:1665:HIS:HD1	1.85	0.42
1:A:1766:LEU:HG	1:A:1822:ARG:HD2	2.01	0.42
1:A:1886:LYS:HD2	1:A:1954:CYS:O	2.19	0.42
1:A:1893:GLU:H	1:A:1895:LYS:HZ3	1.67	0.42
1:A:2228:ARG:HG2	1:A:2231:PHE:HD2	1.84	0.42
1:A:2420:PHE:O	1:A:2423:VAL:HB	2.19	0.42
1:A:2931:ARG:HH22	1:A:2939:LEU:HD11	1.84	0.42
1:A:3809:THR:HA	1:A:3930:VAL:O	2.20	0.42
1:A:3960:PRO:HG2	1:A:3961:PHE:CE2	2.54	0.42
2:B:186:ALA:HA	2:B:189:LYS:HZ1	1.84	0.42
2:B:259:LEU:HG	2:B:260:LYS:H	1.83	0.42
3:C:167:PHE:CZ	3:C:197:ILE:HD13	2.55	0.42
1:F:385:TYR:HD2	1:F:420:VAL:HG22	1.84	0.42
1:F:433:PRO:HB3	1:F:6018:UNK:HA	2.01	0.42
1:F:748:TYR:O	1:F:752:LEU:HG	2.19	0.42
1:F:992:ILE:HG23	1:F:1036:PHE:HD1	1.85	0.42
1:F:1448:LEU:O	1:F:1452:VAL:HG23	2.18	0.42
1:F:1554:SER:N	1:F:1557:GLU:OE2	2.39	0.42
1:F:1642:LYS:O	1:F:1646:LEU:HD23	2.19	0.42
1:F:1708:GLU:O	1:F:1712:ARG:HG2	2.19	0.42
1:F:1811:ARG:HH12	3:H:627:ASN:CG	2.22	0.42
1:F:1814:PHE:O	1:F:1818:SER:OG	2.29	0.42
1:F:2425:ARG:HA	1:F:2425:ARG:HD3	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2511:ILE:HD11	1:F:2550:ILE:HG23	2.00	0.42
1:F:2567:SER:HA	1:F:2572:TYR:CG	2.54	0.42
1:F:2848:PHE:CG	1:F:2849:SER:N	2.87	0.42
1:F:3246:ALA:O	1:F:3250:ASN:N	2.51	0.42
1:F:3263:HIS:HB2	1:F:3276:TRP:CZ2	2.54	0.42
1:F:3287:ARG:HA	1:F:3289:ARG:NH1	2.34	0.42
1:F:3495:PHE:HD1	1:F:3498:TRP:CD1	2.35	0.42
1:F:3602:ASN:OD1	1:F:3655:LYS:NZ	2.52	0.42
1:F:3791:TYR:HB2	1:F:3804:GLU:HG2	2.01	0.42
1:F:3964:THR:HG22	1:F:3967:PHE:CE2	2.54	0.42
1:F:4109:ASP:HA	1:F:4112:THR:HG22	2.02	0.42
2:G:254:ARG:N	3:H:433:TYR:HE2	2.18	0.42
2:G:415:PRO:HA	2:G:432:PHE:CD1	2.54	0.42
2:G:461:LYS:HD2	2:G:525:PHE:C	2.44	0.42
2:G:471:PHE:CE1	2:G:506:LEU:HD21	2.54	0.42
1:A:163:LYS:HE3	2:B:312:LEU:C	2.44	0.42
1:A:606:SER:HB2	1:A:1080:LEU:HD11	2.00	0.42
1:A:671:SER:O	1:A:674:VAL:HG12	2.18	0.42
1:A:1149:LYS:H	1:A:1163:LEU:N	2.18	0.42
1:A:1188:ILE:HG13	1:A:1189:GLU:H	1.84	0.42
1:A:1468:LEU:HD13	1:A:1521:PHE:CZ	2.54	0.42
1:A:1640:GLU:OE1	1:A:1640:GLU:N	2.39	0.42
1:A:1840:PHE:CE1	1:A:1896:ILE:HG23	2.54	0.42
1:A:2234:ASN:O	1:A:2238:ILE:HD12	2.20	0.42
1:A:2372:PRO:HB3	1:A:2404:ARG:CZ	2.49	0.42
1:A:2954:GLN:HA	1:A:2957:LEU:CB	2.48	0.42
1:A:3190:LEU:HD23	1:A:3235:LYS:HG2	2.01	0.42
1:A:3228:SER:O	1:A:3232:ARG:HG3	2.20	0.42
1:A:3315:TYR:CE1	1:A:3323:PHE:HD1	2.37	0.42
1:A:3904:PHE:C	1:A:3907:SER:HG	2.27	0.42
1:A:4007:LYS:HZ3	1:A:4044:ILE:HD13	1.84	0.42
2:B:462:MET:HE3	3:C:383:ALA:HB2	2.01	0.42
3:C:165:LEU:HD22	3:C:205:LEU:HD12	2.01	0.42
1:F:164:LYS:HD3	5:I:29:DA:H3'	1.99	0.42
1:F:341:PHE:O	1:F:345:PHE:N	2.52	0.42
1:F:1150:LYS:HD2	1:F:1150:LYS:HA	1.84	0.42
1:F:1407:LYS:NZ	1:F:1463:LEU:HD21	2.34	0.42
1:F:1560:TYR:HA	1:F:1567:ILE:HD12	2.01	0.42
1:F:1563:PHE:HB3	1:F:1566:THR:OG1	2.20	0.42
1:F:1684:LEU:HD12	1:F:1684:LEU:H	1.85	0.42
1:F:2499:PHE:O	1:F:2503:LYS:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3077:ILE:HA	1:F:3080:LEU:HG	2.02	0.42
1:F:3088:LEU:O	1:F:3091:LEU:HB3	2.19	0.42
1:F:3107:ILE:HD12	1:F:3107:ILE:H	1.83	0.42
1:F:3588:TRP:HE1	1:F:3610:TYR:HA	1.84	0.42
1:F:3924:HIS:N	1:F:3927:ASN:OD1	2.52	0.42
3:H:130:ARG:HB3	3:H:159:ILE:HG23	2.00	0.42
3:H:596:GLU:OE1	3:H:600:VAL:HG13	2.19	0.42
1:A:30:ALA:O	1:A:33:GLN:HG2	2.20	0.42
1:A:50:VAL:HG12	1:A:51:LEU:CD2	2.49	0.42
1:A:289:ASN:CG	1:A:293:LEU:HG	2.45	0.42
1:A:338:LEU:O	1:A:342:MET:HG2	2.18	0.42
1:A:656:GLN:HG2	1:A:666:PHE:HE2	1.84	0.42
1:A:1206:LEU:HA	1:A:1209:LYS:HG2	2.00	0.42
1:A:1224:PHE:CD2	1:A:1267:TYR:HE1	2.38	0.42
1:A:1239:PRO:HA	1:A:1256:TRP:CH2	2.55	0.42
1:A:1388:ASP:N	1:A:1388:ASP:OD1	2.52	0.42
1:A:1526:GLU:HG2	1:A:1527:ARG:N	2.34	0.42
1:A:1560:TYR:OH	1:A:1596:VAL:HA	2.20	0.42
1:A:1711:ARG:HG3	1:A:1712:ARG:N	2.33	0.42
1:A:1849:ASP:O	1:A:1853:SER:OG	2.33	0.42
1:A:2228:ARG:O	1:A:2228:ARG:HD2	2.18	0.42
1:A:2251:ILE:HB	1:A:2253:TYR:CE2	2.54	0.42
1:A:2362:VAL:HG12	1:A:2396:LEU:HG	2.02	0.42
1:A:2522:ARG:O	1:A:2526:SER:OG	2.23	0.42
1:A:3130:GLN:NE2	1:A:3175:PRO:HD2	2.33	0.42
1:A:3232:ARG:HA	1:A:3235:LYS:HZ3	1.83	0.42
1:A:3493:TRP:HB3	1:A:3711:PRO:HD3	2.01	0.42
1:A:3572:ILE:O	1:A:3575:LEU:HB2	2.20	0.42
1:A:3690:PHE:HE2	1:A:3721:GLY:HA2	1.83	0.42
1:A:3699:LEU:O	1:A:3719:ILE:HG12	2.20	0.42
1:A:3965:ARG:O	1:A:3968:ILE:HG22	2.19	0.42
1:A:4085:LYS:NZ	1:A:4092:GLN:HB2	2.34	0.42
2:B:71:TYR:CE2	2:B:116:ILE:HG13	2.54	0.42
3:C:297:LEU:O	3:C:302:GLU:HA	2.20	0.42
3:C:459:ASP:OD1	3:C:460:SER:N	2.53	0.42
1:F:175:TYR:O	1:F:227:LEU:HD21	2.19	0.42
1:F:542:ASP:N	1:F:542:ASP:OD1	2.51	0.42
1:F:622:ALA:O	1:F:625:ASN:HB2	2.19	0.42
1:F:913:ARG:NH1	1:F:2803:ILE:HG21	2.34	0.42
1:F:1086:TYR:HE1	1:F:1137:ILE:HG13	1.84	0.42
1:F:1476:HIS:ND1	1:F:1522:GLY:O	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1608:ARG:HB2	1:F:1612:LYS:HZ3	1.83	0.42
1:F:2464:HIS:C	1:F:2466:SER:H	2.28	0.42
1:F:3035:PHE:HA	1:F:3038:GLU:CD	2.44	0.42
1:F:3108:GLN:O	1:F:3111:MET:N	2.53	0.42
1:F:3577:GLN:HE21	1:F:3625:LEU:HA	1.84	0.42
1:F:3750:PHE:CD1	1:F:3804:GLU:HA	2.55	0.42
1:F:3872:ARG:HA	1:F:3875:GLU:OE1	2.19	0.42
1:F:3874:ARG:HH22	1:F:4118:GLY:HA2	1.84	0.42
1:F:4078:VAL:HG12	1:F:4082:ARG:HH21	1.84	0.42
2:G:126:GLN:HG2	2:G:130:ARG:NH1	2.34	0.42
2:G:261:LEU:CG	2:G:271:VAL:HG21	2.49	0.42
2:G:441:ASP:OD2	3:H:484:ASN:ND2	2.44	0.42
3:H:269:GLN:OE1	3:H:271:ARG:NH2	2.44	0.42
1:A:200:PHE:O	1:A:204:LEU:HD23	2.20	0.42
1:A:555:SER:OG	1:A:557:SER:OG	2.24	0.42
1:A:855:VAL:O	1:A:858:MET:HG3	2.18	0.42
1:A:991:LEU:O	1:A:994:TRP:HB3	2.20	0.42
1:A:1407:LYS:HA	1:A:1407:LYS:HD2	1.81	0.42
1:A:1593:VAL:HA	1:A:1596:VAL:HG22	2.01	0.42
1:A:1639:LEU:HD23	1:A:1640:GLU:OE1	2.20	0.42
1:A:1710:LEU:O	1:A:1713:VAL:HG22	2.20	0.42
1:A:2365:ASN:HB3	1:A:2366:LYS:HZ3	1.81	0.42
1:A:2448:PRO:HG3	1:A:2484:TYR:OH	2.20	0.42
1:A:2974:GLU:OE2	1:A:2978:LYS:HB2	2.19	0.42
1:A:3069:MET:SD	1:A:3070:HIS:N	2.92	0.42
1:A:3538:GLU:HG3	1:A:3798:SER:HB3	2.01	0.42
1:A:3562:LEU:HD23	1:A:3562:LEU:H	1.85	0.42
1:A:3817:LEU:O	1:A:3822:GLN:HB3	2.19	0.42
2:B:67:ILE:HG13	2:B:68:GLN:N	2.34	0.42
3:C:280:ASP:CG	3:C:282:LYS:HG2	2.44	0.42
3:C:490:LEU:O	3:C:494:LEU:HG	2.19	0.42
3:C:599:ARG:HE	3:C:602:VAL:HG21	1.85	0.42
1:F:22:ALA:HB3	1:F:34:LEU:CD2	2.49	0.42
1:F:70:ARG:HH21	1:F:82:ARG:CG	2.32	0.42
1:F:153:PHE:CD1	1:F:178:LEU:HD11	2.51	0.42
1:F:209:THR:HG23	2:G:332:GLU:OE2	2.19	0.42
1:F:998:ASN:HA	1:F:1001:PHE:HB2	2.02	0.42
1:F:1000:LYS:HE2	1:F:1004:GLN:HB3	2.02	0.42
1:F:1006:THR:HA	1:F:1009:LEU:HD12	2.00	0.42
1:F:1202:ARG:NH1	1:F:1210:ASP:OD2	2.53	0.42
1:F:1327:GLY:O	1:F:1330:TYR:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1718:ILE:HG13	1:F:1719:VAL:N	2.35	0.42
1:F:2231:PHE:HA	1:F:2234:ASN:HD21	1.84	0.42
1:F:2485:ARG:HA	1:F:2499:PHE:CE1	2.54	0.42
1:F:2928:LYS:HA	1:F:2928:LYS:HD3	1.82	0.42
1:F:2992:ASP:O	1:F:2996:LEU:HG	2.19	0.42
1:F:3263:HIS:HA	1:F:3266:SER:HB3	2.01	0.42
1:F:3572:ILE:HG12	1:F:3796:MET:HG3	2.00	0.42
1:F:3630:ARG:NH2	1:F:3633:ILE:HG13	2.35	0.42
1:F:3763:ARG:O	1:F:3767:LEU:HG	2.18	0.42
2:G:288:LEU:CB	3:H:322:PRO:HB3	2.49	0.42
2:G:344:GLY:C	2:G:345:LEU:HD22	2.44	0.42
3:H:328:GLU:O	3:H:332:LYS:HG2	2.19	0.42
3:H:500:HIS:C	3:H:502:ARG:H	2.27	0.42
1:A:730:LEU:O	1:A:734:LEU:HG	2.20	0.42
1:A:746:ARG:HA	1:A:749:VAL:HG23	2.01	0.42
1:A:993:HIS:CD2	1:A:993:HIS:N	2.86	0.42
1:A:1071:ASN:OD1	1:A:1072:ALA:N	2.52	0.42
1:A:1927:MET:HE3	1:A:1927:MET:HB3	1.76	0.42
1:A:2102:LYS:NZ	1:A:2106:ARG:HD2	2.35	0.42
1:A:2225:HIS:HB2	1:A:2231:PHE:HB2	2.01	0.42
1:A:2252:PRO:C	1:A:2254:ARG:N	2.78	0.42
1:A:2472:GLN:O	1:A:2475:ASN:HB2	2.19	0.42
1:A:2862:SER:HA	1:A:2868:LEU:HD22	2.01	0.42
1:A:2896:ALA:O	1:A:2900:LEU:HB3	2.19	0.42
1:A:2970:LYS:HA	1:A:2973:ASP:OD2	2.19	0.42
1:A:3053:LEU:HG	1:A:3092:LEU:HD11	2.01	0.42
1:A:3471:ILE:HA	1:A:3474:ARG:CG	2.47	0.42
1:A:3699:LEU:HB3	1:A:3719:ILE:CD1	2.50	0.42
1:A:4103:GLN:O	1:A:4106:CYS:HB2	2.19	0.42
2:B:79:ASP:OD1	2:B:110:ASN:HB2	2.19	0.42
2:B:91:GLU:H	2:B:135:MET:HG2	1.84	0.42
2:B:214:SER:HB3	2:B:218:ARG:CG	2.49	0.42
2:B:297:LYS:CB	3:C:298:ASN:HD21	2.29	0.42
3:C:30:PRO:HB3	3:C:227:PHE:CD2	2.55	0.42
1:F:79:ARG:HA	1:F:79:ARG:HD3	1.70	0.42
1:F:159:GLU:HA	1:F:162:LEU:HD23	2.02	0.42
1:F:1090:ARG:HB3	1:F:1137:ILE:HG21	2.02	0.42
1:F:1097:GLU:O	1:F:1151:ARG:NH2	2.53	0.42
1:F:1189:GLU:O	1:F:1192:TYR:HB3	2.20	0.42
1:F:1388:ASP:HA	1:F:1391:VAL:HG12	2.01	0.42
1:F:1410:PRO:HG2	1:F:1411:TYR:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1557:GLU:HB3	1:F:1592:MET:SD	2.59	0.42
1:F:1662:ASN:OD1	1:F:1702:LEU:HD23	2.19	0.42
1:F:1781:SER:O	1:F:1784:ARG:NH1	2.52	0.42
1:F:1913:LYS:HA	1:F:1916:ILE:CD1	2.50	0.42
1:F:2224:PHE:HA	1:F:2231:PHE:CE1	2.54	0.42
1:F:2363:CYS:O	1:F:2367:VAL:HG12	2.19	0.42
1:F:2389:PHE:HB2	1:F:2394:LYS:CD	2.44	0.42
1:F:2571:ASP:O	1:F:2787:HIS:HD2	2.02	0.42
1:F:3001:CYS:SG	1:F:3002:TYR:N	2.92	0.42
1:F:3148:GLN:OE1	1:F:3148:GLN:N	2.53	0.42
1:F:3167:ARG:HH11	1:F:3168:TYR:N	2.18	0.42
1:F:3247:ARG:C	1:F:3250:ASN:H	2.27	0.42
1:F:3360:LEU:HG	1:F:3373:VAL:HG21	2.00	0.42
1:F:3530:VAL:O	1:F:3534:ILE:N	2.47	0.42
3:H:381:ILE:HG23	3:H:410:PRO:HB3	2.02	0.42
1:A:139:ARG:O	1:A:139:ARG:NE	2.53	0.42
1:A:212:VAL:HG22	3:C:551:GLN:O	2.19	0.42
1:A:569:VAL:HA	1:A:572:VAL:HB	2.02	0.42
1:A:704:PHE:HA	1:A:707:PHE:CD2	2.53	0.42
1:A:1011:GLU:HA	1:A:1014:LEU:HB2	2.02	0.42
1:A:1094:SER:O	1:A:1097:GLU:N	2.41	0.42
1:A:1344:PHE:O	1:A:1348:LEU:HG	2.20	0.42
1:A:1358:LEU:HG	1:A:1360:LYS:HD2	2.00	0.42
1:A:1406:LEU:O	1:A:1406:LEU:HD23	2.20	0.42
1:A:1533:LEU:HD12	1:A:1592:MET:HB3	2.01	0.42
1:A:1708:GLU:HA	1:A:1711:ARG:HH11	1.84	0.42
1:A:1723:PRO:HG2	1:A:1729:PHE:CE2	2.55	0.42
1:A:2097:LEU:O	1:A:2100:LEU:HG	2.19	0.42
1:A:2450:GLU:OE1	1:A:2450:GLU:N	2.48	0.42
1:A:2923:TRP:CE3	1:A:2942:ILE:HD11	2.55	0.42
1:A:3096:VAL:HG13	1:A:3100:LYS:NZ	2.35	0.42
1:A:3263:HIS:C	1:A:3267:LYS:HZ2	2.27	0.42
1:A:3383:GLN:O	1:A:3386:SER:OG	2.29	0.42
1:A:3542:PHE:CE2	1:A:3552:LYS:HD2	2.55	0.42
1:A:3571:PHE:CD2	1:A:3699:LEU:HD22	2.55	0.42
1:A:4018:GLN:O	1:A:4021:LEU:HG	2.19	0.42
1:A:4107:LEU:HA	1:A:4107:LEU:HD23	1.83	0.42
2:B:150:CYS:O	2:B:153:LEU:HB2	2.20	0.42
2:B:384:ALA:HB2	3:C:450:GLN:HG3	2.02	0.42
2:B:404:ARG:HH11	2:B:405:ASN:HD21	1.67	0.42
3:C:7:LYS:HB3	3:C:128:GLU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:306:LEU:HG	3:C:308:GLU:HG3	2.02	0.42
1:F:186:PRO:O	1:F:188:GLU:N	2.53	0.42
1:F:712:LYS:HD3	1:F:712:LYS:N	2.35	0.42
1:F:1646:LEU:HA	1:F:1649:LEU:HD12	2.02	0.42
1:F:2125:TRP:CD1	1:F:2126:MET:N	2.88	0.42
1:F:2180:GLU:HB3	1:F:2225:HIS:CE1	2.55	0.42
1:F:3029:LYS:NZ	1:F:3073:LEU:HD21	2.35	0.42
1:F:3095:ASP:HB3	1:F:3098:ARG:NH1	2.27	0.42
1:F:3288:SER:H	1:F:3289:ARG:NH2	2.17	0.42
1:F:3449:LYS:HA	1:F:3452:LYS:HG2	2.01	0.42
1:F:3734:ARG:O	1:F:3736:LYS:NZ	2.52	0.42
2:G:34:GLY:O	2:G:35:ARG:NH2	2.53	0.42
2:G:121:GLN:HB2	2:G:126:GLN:HE22	1.83	0.42
2:G:327:ILE:HG21	3:H:494:LEU:HD12	2.02	0.42
3:H:7:LYS:HB3	3:H:51:LYS:HZ2	1.85	0.42
3:H:8:ALA:HB3	3:H:240:ILE:HG23	2.01	0.42
3:H:9:ALA:HA	3:H:53:GLU:HG2	2.00	0.42
3:H:10:VAL:HG13	3:H:133:GLU:CD	2.44	0.42
3:H:18:PHE:HD1	3:H:102:SER:HA	1.85	0.42
3:H:496:HIS:O	3:H:500:HIS:HB2	2.20	0.42
3:H:624:LEU:HA	3:H:624:LEU:HD23	1.78	0.42
7:E:30:DA:H2"	7:E:31:DA:C8	2.55	0.42
1:A:114:VAL:HG13	1:A:130:LEU:HD11	2.01	0.42
1:A:346:TYR:HA	1:A:366:TYR:OH	2.20	0.42
1:A:459:ARG:NH1	1:A:543:SER:OG	2.30	0.42
1:A:667:TYR:HD1	1:A:670:LEU:HD12	1.85	0.42
1:A:1153:LEU:HD12	1:A:1154:PRO:HD2	2.00	0.42
1:A:1591:LYS:HE2	1:A:1592:MET:SD	2.60	0.42
1:A:1846:ASP:O	1:A:1850:VAL:HG23	2.20	0.42
1:A:2260:PHE:O	1:A:2306:ASN:ND2	2.53	0.42
1:A:2575:PRO:HA	1:A:2785:ILE:O	2.19	0.42
1:A:2931:ARG:HH22	1:A:2939:LEU:CD1	2.32	0.42
1:A:2951:GLN:HA	1:A:2954:GLN:CD	2.45	0.42
1:A:3290:SER:O	1:A:3294:SER:N	2.51	0.42
1:A:3633:ILE:HA	1:A:3636:PHE:HB2	2.02	0.42
1:A:3863:ASN:O	1:A:3867:THR:N	2.36	0.42
1:A:3961:PHE:HE1	1:A:3963:LEU:HD22	1.85	0.42
1:A:4013:TRP:CZ2	1:A:4036:LYS:HE2	2.53	0.42
2:B:39:ILE:HD12	2:B:84:ALA:HB3	2.02	0.42
3:C:623:PHE:CZ	3:C:634:LYS:HB2	2.55	0.42
1:F:79:ARG:O	1:F:82:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:130:LEU:HD23	1:F:130:LEU:HA	1.81	0.42
1:F:479:ILE:O	1:F:483:VAL:HG22	2.20	0.42
1:F:898:PHE:HB3	1:F:900:GLU:H	1.84	0.42
1:F:1168:LEU:HA	1:F:1171:TRP:HB3	2.00	0.42
1:F:1342:MET:HE2	1:F:1399:CYS:SG	2.60	0.42
1:F:1445:ARG:HA	1:F:1448:LEU:HB3	2.01	0.42
1:F:2333:ARG:C	1:F:2334:LYS:HD3	2.44	0.42
1:F:2383:PHE:HB3	1:F:2418:LYS:NZ	2.35	0.42
1:F:2408:MET:HE2	1:F:2411:LEU:HA	2.02	0.42
1:F:2547:SER:O	1:F:2549:LYS:N	2.48	0.42
1:F:2554:PHE:HA	1:F:2557:LEU:HD13	2.01	0.42
1:F:3352:GLU:HB2	1:F:3355:LYS:HG2	2.02	0.42
1:F:3668:LEU:HA	1:F:3671:ASN:HD21	1.85	0.42
2:G:183:ALA:HB1	2:G:216:PHE:CZ	2.54	0.42
2:G:343:PRO:HA	2:G:401:THR:OG1	2.19	0.42
2:G:420:LEU:HD23	2:G:421:ASP:O	2.20	0.42
3:H:56:LEU:O	3:H:80:HIS:N	2.52	0.42
5:I:35:DT:C4	5:I:36:DA:C6	3.07	0.42
6:D:28:DA:OP2	6:D:28:DA:H8	2.02	0.42
6:D:28:DA:H2"	6:D:29:DG:C8	2.55	0.42
6:D:37:DG:C5	6:D:38:DG:C6	3.08	0.42
1:A:374:LYS:NZ	1:A:424:LEU:HA	2.35	0.42
1:A:635:PRO:HG3	1:A:672:ILE:HB	2.01	0.42
1:A:758:LEU:O	1:A:762:TYR:N	2.53	0.42
1:A:1100:VAL:O	1:A:1104:LEU:HD23	2.20	0.42
1:A:1593:VAL:O	1:A:1597:LEU:HG	2.20	0.42
1:A:1671:VAL:O	1:A:1675:TYR:N	2.39	0.42
1:A:1871:MET:HE1	1:A:1936:ARG:O	2.20	0.42
1:A:2384:PHE:HE1	2:B:154:PHE:HB2	1.84	0.42
1:A:2512:ASP:OD2	1:A:2515:PRO:HA	2.20	0.42
1:A:3307:LEU:C	1:A:3309:GLU:H	2.28	0.42
1:A:3450:MET:SD	1:A:3450:MET:C	3.03	0.42
1:A:3920:ILE:HD12	1:A:3920:ILE:H	1.85	0.42
2:B:49:PHE:HB2	2:B:137:HIS:NE2	2.35	0.42
2:B:420:LEU:HB2	2:B:426:GLN:OE1	2.20	0.42
2:B:463:LYS:NZ	3:C:386:ASP:OD1	2.53	0.42
3:C:234:LEU:HA	3:C:237:PHE:CD2	2.55	0.42
3:C:645:GLU:HA	3:C:648:LYS:HG2	2.02	0.42
1:F:980:THR:O	1:F:983:LEU:HG	2.20	0.42
1:F:1096:VAL:C	1:F:1141:LYS:HZ1	2.26	0.42
1:F:1102:GLU:OE2	1:F:1151:ARG:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1412:LYS:C	1:F:1412:LYS:HD3	2.44	0.42
1:F:1675:TYR:O	1:F:1679:LEU:HG	2.20	0.42
1:F:2185:MET:O	1:F:2188:GLU:HG2	2.20	0.42
1:F:2254:ARG:HD2	1:F:2294:ILE:HG23	2.02	0.42
1:F:2296:SER:O	1:F:2300:PHE:HE2	2.03	0.42
1:F:2559:THR:O	1:F:2563:LEU:HG	2.19	0.42
1:F:3180:ASP:O	1:F:3184:THR:HG23	2.20	0.42
1:F:3716:HIS:H	1:F:3718:ARG:HH12	1.66	0.42
2:G:193:LEU:HA	2:G:196:THR:HB	2.00	0.42
2:G:360:HIS:CD2	2:G:438:PRO:HD3	2.55	0.42
3:H:264:TYR:OH	3:H:368:ARG:NH1	2.48	0.42
6:D:29:DG:H2"	6:D:30:DT:C6	2.55	0.42
1:A:385:TYR:CD2	1:A:424:LEU:HG	2.55	0.41
1:A:524:TYR:CD1	1:A:629:PHE:HD1	2.37	0.41
1:A:997:ASN:HD22	1:A:999:LYS:HE2	1.84	0.41
1:A:1209:LYS:HA	1:A:1212:LEU:HG	2.01	0.41
1:A:1775:GLU:O	1:A:1776:GLU:C	2.63	0.41
1:A:2151:ILE:HD13	1:A:2188:GLU:HB3	2.02	0.41
1:A:2304:VAL:O	1:A:2307:MET:HG3	2.20	0.41
1:A:2359:LYS:HD3	1:A:2359:LYS:N	2.34	0.41
1:A:2393:LEU:HB2	1:A:2394:LYS:NZ	2.35	0.41
1:A:2995:GLU:O	1:A:2999:LEU:HG	2.20	0.41
1:A:3086:LEU:O	1:A:3090:TYR:HD1	2.03	0.41
1:A:3161:LEU:O	1:A:3165:THR:OG1	2.29	0.41
1:A:3443:PRO:HG3	1:A:3475:TYR:CG	2.55	0.41
1:A:3737:ARG:HA	1:A:3751:LEU:HD13	2.02	0.41
1:A:3745:GLU:O	1:A:3745:GLU:HG3	2.20	0.41
1:A:6006:UNK:O	1:A:6010:UNK:N	2.53	0.41
2:B:71:TYR:CZ	2:B:75:ILE:HD11	2.55	0.41
2:B:339:ARG:HD2	2:B:340:PHE:N	2.35	0.41
3:C:348:SER:O	3:C:351:VAL:HG22	2.20	0.41
1:F:131:LEU:HD12	1:F:132:ILE:N	2.34	0.41
1:F:236:LYS:HZ1	1:F:239:GLU:N	2.16	0.41
1:F:452:LYS:O	1:F:455:LEU:HB2	2.20	0.41
1:F:484:HIS:HD2	1:F:571:SER:CA	2.32	0.41
1:F:651:TYR:O	1:F:654:ILE:HG22	2.19	0.41
1:F:1477:HIS:HB3	1:F:1481:THR:HG23	2.02	0.41
1:F:1769:GLU:O	1:F:1772:HIS:ND1	2.49	0.41
1:F:1900:PHE:O	1:F:1904:CYS:N	2.53	0.41
1:F:2195:SER:O	1:F:5009:UNK:N	2.53	0.41
1:F:2224:PHE:HA	1:F:2231:PHE:HE1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2228:ARG:H	1:F:2231:PHE:CB	2.32	0.41
1:F:3319:ASN:CG	1:F:3321:LEU:HB3	2.44	0.41
1:F:3643:HIS:C	1:F:3653:ARG:HH22	2.28	0.41
1:F:3920:ILE:HG21	1:F:3942:PHE:CD1	2.55	0.41
1:F:3962:ARG:HG3	1:F:3967:PHE:HE2	1.83	0.41
1:F:3980:MET:HA	1:F:3983:ILE:CG2	2.45	0.41
2:G:376:ILE:HB	3:H:540:ILE:CG2	2.50	0.41
2:G:534:TYR:H	3:H:260:ARG:NH2	2.18	0.41
3:H:56:LEU:HD22	3:H:94:ILE:HG12	2.02	0.41
3:H:283:THR:HG23	3:H:285:LYS:H	1.85	0.41
3:H:357:MET:O	3:H:422:VAL:HG13	2.20	0.41
1:A:101:ALA:O	1:A:102:PRO:C	2.63	0.41
1:A:138:PHE:HZ	1:A:183:GLU:HB3	1.85	0.41
1:A:379:LYS:HG3	1:A:380:ASP:OD1	2.19	0.41
1:A:485:GLN:HE21	1:A:6014:UNK:CB	2.34	0.41
1:A:521:VAL:N	1:A:522:PRO:HD2	2.35	0.41
1:A:899:ARG:CZ	1:A:2568:MET:HB3	2.50	0.41
1:A:909:VAL:O	1:A:912:PRO:HD2	2.20	0.41
1:A:1143:VAL:HA	1:A:1146:ASN:ND2	2.35	0.41
1:A:1511:ALA:HA	1:A:1514:LEU:HD12	2.01	0.41
1:A:1676:ILE:O	1:A:1680:ALA:N	2.49	0.41
1:A:1870:LYS:O	1:A:1873:TYR:HB2	2.19	0.41
1:A:1891:ALA:HB1	1:A:1894:SER:HA	2.02	0.41
1:A:2129:LEU:HA	1:A:2132:LYS:NZ	2.36	0.41
1:A:2203:THR:HB	1:A:2248:CYS:SG	2.60	0.41
1:A:2238:ILE:HD12	1:A:2238:ILE:H	1.85	0.41
1:A:2499:PHE:O	1:A:2503:LYS:HG3	2.20	0.41
1:A:2546:TYR:HA	1:A:2554:PHE:CZ	2.55	0.41
1:A:2918:PRO:HB2	1:A:2922:ARG:NH2	2.28	0.41
1:A:2970:LYS:HA	1:A:2970:LYS:HD3	1.90	0.41
1:A:3008:TRP:CZ2	1:A:3050:LYS:HD2	2.55	0.41
1:A:3190:LEU:HD21	1:A:3234:CYS:SG	2.61	0.41
1:A:3315:TYR:O	1:A:3320:ILE:N	2.52	0.41
1:A:3604:LYS:HA	1:A:3604:LYS:HD3	1.85	0.41
1:A:3750:PHE:CE2	1:A:3804:GLU:HB3	2.54	0.41
1:A:3967:PHE:O	1:A:3970:LEU:HB2	2.20	0.41
1:A:4055:ASN:CB	1:A:4095:GLU:HA	2.50	0.41
1:A:4064:LEU:O	1:A:4068:HIS:N	2.52	0.41
2:B:114:LYS:O	2:B:117:LEU:HB2	2.21	0.41
2:B:351:LYS:N	2:B:395:ALA:O	2.50	0.41
2:B:400:TYR:CZ	2:B:402:PRO:HA	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:294:VAL:C	3:C:295:TYR:HD1	2.28	0.41
3:C:624:LEU:HD12	3:C:632:PHE:HB2	2.01	0.41
1:F:152:LEU:HD13	1:F:155:LYS:CE	2.50	0.41
1:F:386:VAL:O	1:F:389:ILE:HG22	2.20	0.41
1:F:441:MET:HA	1:F:444:ASP:OD2	2.20	0.41
1:F:1029:CYS:SG	1:F:1030:GLY:N	2.94	0.41
1:F:1722:PHE:HE2	1:F:1742:CYS:SG	2.43	0.41
1:F:1747:LEU:O	1:F:1750:LEU:N	2.52	0.41
1:F:2145:PHE:O	1:F:2149:LEU:HG	2.20	0.41
1:F:2224:PHE:HD1	1:F:2231:PHE:HE1	1.65	0.41
1:F:2507:ILE:HA	1:F:2510:LEU:HD23	2.02	0.41
1:F:3320:ILE:O	1:F:3323:PHE:HB3	2.20	0.41
1:F:3521:ILE:O	1:F:3525:TYR:N	2.37	0.41
1:F:3628:PHE:HB2	1:F:3675:LYS:HZ3	1.84	0.41
1:F:3813:LYS:CD	1:F:3925:LEU:HD22	2.48	0.41
1:F:3816:LEU:HD11	1:F:3882:LEU:HD11	2.01	0.41
1:F:3835:PRO:HA	1:F:3839:TYR:CD2	2.55	0.41
1:F:4089:ILE:HD12	1:F:4092:GLN:HB2	2.01	0.41
2:G:46:LYS:HA	2:G:137:HIS:NE2	2.35	0.41
2:G:259:LEU:O	2:G:271:VAL:O	2.38	0.41
3:H:488:GLN:HE22	3:H:489:ARG:HD2	1.85	0.41
3:H:496:HIS:NE2	3:H:503:GLU:OE1	2.53	0.41
5:I:37:DT:H2'	5:I:38:DT:C5	2.55	0.41
1:A:255:ALA:O	1:A:258:PRO:HD2	2.20	0.41
1:A:559:SER:O	1:A:561:ASN:N	2.53	0.41
1:A:871:LEU:HD22	1:A:3122:HIS:CE1	2.54	0.41
1:A:924:ARG:O	1:A:928:VAL:HG22	2.20	0.41
1:A:1038:LYS:HG3	1:A:1039:TRP:CE3	2.56	0.41
1:A:1202:ARG:HG3	1:A:1207:TRP:HD1	1.84	0.41
1:A:1288:SER:HB2	1:A:1290:LEU:HD13	2.02	0.41
1:A:1324:PRO:HA	1:A:1328:GLU:OE2	2.20	0.41
1:A:1910:GLU:HG2	3:H:732:ILE:HG23	2.01	0.41
1:A:2253:TYR:H	1:A:2256:ILE:HD13	1.85	0.41
1:A:2539:LEU:HD23	1:A:2543:ASN:ND2	2.34	0.41
1:A:2805:ALA:O	1:A:2808:LEU:HB2	2.19	0.41
1:A:2832:ILE:HA	1:A:2835:LYS:HE2	2.02	0.41
1:A:2936:TYR:HD1	1:A:2940:ARG:HH12	1.69	0.41
1:A:3839:TYR:HA	1:A:3842:TRP:HB3	2.02	0.41
2:B:75:ILE:HG23	2:B:111:PRO:HB2	2.01	0.41
3:C:185:LEU:HB3	3:C:514:ASN:HD22	1.85	0.41
3:C:273:LYS:NZ	3:C:274:LYS:HE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:477:ASN:O	1:F:481:THR:HG23	2.21	0.41
1:F:571:SER:O	1:F:575:ILE:HG13	2.20	0.41
1:F:1212:LEU:CD1	1:F:1213:LYS:HG3	2.50	0.41
1:F:1601:LEU:O	1:F:1604:SER:OG	2.37	0.41
1:F:1923:PHE:C	1:F:1925:GLU:H	2.29	0.41
1:F:2388:LYS:H	1:F:2394:LYS:NZ	2.18	0.41
1:F:2584:CYS:SG	1:F:2780:LEU:HB2	2.60	0.41
1:F:3130:GLN:HA	1:F:3133:GLN:HE22	1.86	0.41
1:F:3232:ARG:O	1:F:3235:LYS:HG3	2.20	0.41
1:F:3239:LYS:HE2	1:F:3262:LEU:HD11	2.03	0.41
1:F:3341:LEU:HD22	1:F:3374:ILE:HD13	2.02	0.41
1:F:3683:CYS:O	1:F:3685:PRO:HD3	2.20	0.41
1:F:3733:ARG:HB2	1:F:3753:LYS:CE	2.50	0.41
2:G:461:LYS:NZ	2:G:525:PHE:HB3	2.35	0.41
2:G:482:VAL:HG12	2:G:486:HIS:CE1	2.53	0.41
2:G:515:ASN:C	2:G:515:ASN:HD22	2.27	0.41
3:H:185:LEU:HD22	3:H:510:GLN:OE1	2.20	0.41
3:H:656:ASN:O	3:H:660:LYS:HG2	2.19	0.41
4:J:29:DG:C5	4:J:30:DT:C4	3.09	0.41
7:E:28:DT:C4	7:E:29:DA:N6	2.88	0.41
1:A:332:GLU:HA	1:A:335:LYS:HG3	2.02	0.41
1:A:411:PRO:O	1:A:414:LEU:HD23	2.21	0.41
1:A:656:GLN:O	1:A:660:LEU:N	2.43	0.41
1:A:1055:ASN:H	1:A:1058:SER:HG	1.64	0.41
1:A:1601:LEU:HB3	1:A:1651:LYS:HG2	2.01	0.41
1:A:1878:ASP:OD1	1:A:1879:VAL:HG23	2.19	0.41
1:A:3033:GLU:CG	1:A:3034:PRO:HD3	2.48	0.41
1:A:3390:GLN:H	1:A:3390:GLN:HG3	1.73	0.41
1:A:3496:ILE:HG21	1:A:3707:GLY:N	2.30	0.41
2:B:125:GLN:O	2:B:129:LYS:HG3	2.21	0.41
3:C:115:MET:HA	3:C:118:ILE:HG22	2.02	0.41
3:C:314:PHE:HB2	3:C:323:PHE:CE2	2.56	0.41
3:C:599:ARG:NH2	3:C:645:GLU:HG3	2.35	0.41
3:C:610:GLU:HA	3:C:654:ARG:HH12	1.84	0.41
3:C:611:GLU:C	3:C:613:SER:H	2.28	0.41
1:F:722:LYS:CA	1:F:726:LEU:HD23	2.44	0.41
1:F:1005:ASP:O	1:F:1009:LEU:HG	2.20	0.41
1:F:1145:LEU:HB3	1:F:1165:LEU:HD21	2.02	0.41
1:F:1214:GLU:HG3	1:F:1215:GLU:H	1.85	0.41
1:F:1374:GLN:CG	1:F:1422:LYS:HE2	2.51	0.41
1:F:1419:LEU:HD11	1:F:1458:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1760:GLU:O	1:F:1763:THR:N	2.54	0.41
1:F:1973:LYS:C	1:F:1975:LEU:N	2.78	0.41
1:F:2123:PRO:C	1:F:2125:TRP:H	2.29	0.41
1:F:2142:ILE:H	1:F:2142:ILE:HD12	1.85	0.41
1:F:2201:THR:HA	1:F:2245:TRP:NE1	2.35	0.41
1:F:2916:LEU:HD13	1:F:2920:VAL:HG11	2.02	0.41
1:F:3064:PHE:HA	1:F:3067:LYS:HD2	2.02	0.41
1:F:3107:ILE:HD11	1:F:3135:LEU:HD21	2.01	0.41
1:F:3737:ARG:HD2	1:F:3738:ILE:N	2.34	0.41
1:F:3758:LEU:CB	1:F:3762:GLN:HE22	2.32	0.41
1:F:3813:LYS:HG3	1:F:3926:ASN:CG	2.45	0.41
1:F:4003:ASP:O	1:F:4007:LYS:HG2	2.21	0.41
2:G:125:GLN:HA	2:G:128:GLN:HG3	2.03	0.41
2:G:176:HIS:NE2	2:G:180:SER:HA	2.34	0.41
2:G:419:GLU:CD	2:G:428:THR:HB	2.45	0.41
3:H:37:VAL:HB	3:H:41:PHE:CE1	2.54	0.41
3:H:198:THR:O	3:H:202:LYS:N	2.49	0.41
3:H:205:LEU:HA	3:H:208:VAL:HG22	2.03	0.41
3:H:640:ARG:HH21	3:H:682:GLY:HA2	1.85	0.41
6:D:22:DG:N2	6:D:23:DT:C2	2.88	0.41
7:E:33:DA:H5'	7:E:33:DA:C8	2.54	0.41
1:A:297:LEU:O	1:A:301:CYS:N	2.53	0.41
1:A:635:PRO:HG3	1:A:672:ILE:HD12	2.01	0.41
1:A:726:LEU:O	1:A:730:LEU:HG	2.20	0.41
1:A:855:VAL:O	1:A:859:LEU:HG	2.20	0.41
1:A:1147:LYS:HD3	1:A:1149:LYS:HD3	2.01	0.41
1:A:1973:LYS:HZ1	1:A:1978:PHE:HB2	1.86	0.41
1:A:1977:ILE:HG21	1:A:2090:ARG:HH21	1.86	0.41
1:A:2195:SER:HB2	1:A:2196:TRP:CE3	2.55	0.41
1:A:2257:PHE:HA	1:A:2260:PHE:CE2	2.56	0.41
1:A:2574:ASN:HB2	1:A:2787:HIS:CD2	2.51	0.41
1:A:2813:PHE:O	1:A:2817:LEU:HD23	2.21	0.41
1:A:2897:LEU:HD22	1:A:2923:TRP:CE2	2.55	0.41
1:A:3290:SER:OG	1:A:3293:CYS:HB3	2.21	0.41
1:A:3646:LYS:HD3	1:A:3653:ARG:HB2	2.02	0.41
2:B:298:THR:HA	3:C:295:TYR:CE1	2.55	0.41
2:B:410:PHE:HZ	3:C:516:LEU:HD22	1.86	0.41
3:C:142:PHE:CE1	3:C:200:GLN:HA	2.56	0.41
3:C:668:ILE:HG13	3:C:669:LYS:N	2.36	0.41
1:F:173:LYS:HD3	1:F:173:LYS:N	2.35	0.41
1:F:176:GLU:OE2	1:F:226:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:275:PHE:HE2	1:F:319:PHE:HB2	1.85	0.41
1:F:719:LYS:HE3	1:F:719:LYS:HB3	1.87	0.41
1:F:899:ARG:HH22	1:F:2533:SER:C	2.29	0.41
1:F:1395:LEU:HD23	1:F:1396:PRO:HD3	2.02	0.41
1:F:1538:LEU:H	1:F:1553:PHE:H	1.67	0.41
1:F:1854:ARG:HH12	3:H:725:VAL:CG1	2.31	0.41
1:F:2307:MET:SD	1:F:2319:ALA:HB3	2.61	0.41
1:F:2791:ILE:HA	1:F:2794:LEU:HD12	2.02	0.41
1:F:2797:VAL:HG13	1:F:2804:ILE:HG21	2.02	0.41
1:F:2891:ARG:HA	1:F:2894:GLU:OE1	2.20	0.41
1:F:3117:ILE:HG22	1:F:3118:ASP:O	2.21	0.41
1:F:3468:LEU:HA	1:F:3471:ILE:HG22	2.02	0.41
1:F:3772:ASN:HA	1:F:3775:LEU:HD12	2.02	0.41
1:F:4061:CYS:HB2	1:F:4078:VAL:HG13	2.02	0.41
1:F:6006:UNK:O	1:F:6010:UNK:N	2.53	0.41
2:G:126:GLN:O	2:G:130:ARG:NH1	2.54	0.41
2:G:190:ALA:O	2:G:193:LEU:HG	2.20	0.41
3:H:57:VAL:HG12	3:H:79:VAL:HG22	2.03	0.41
3:H:443:LYS:H	3:H:443:LYS:HG2	1.69	0.41
4:J:21:DA:H1'	4:J:22:DG:H8	1.85	0.41
1:A:70:ARG:NH1	1:A:82:ARG:NH2	2.68	0.41
1:A:146:GLU:HB2	1:A:183:GLU:HA	2.01	0.41
1:A:421:LEU:HD12	1:A:424:LEU:HB2	2.02	0.41
1:A:646:VAL:HG23	1:A:647:TYR:N	2.35	0.41
1:A:835:LYS:HD2	1:A:835:LYS:O	2.20	0.41
1:A:1069:HIS:CG	1:A:1074:LYS:HE2	2.55	0.41
1:A:1126:GLN:OE1	1:A:1126:GLN:N	2.46	0.41
1:A:1244:LEU:HD21	1:A:1312:CYS:SG	2.60	0.41
1:A:1578:ALA:O	1:A:1582:LEU:HG	2.20	0.41
1:A:1978:PHE:CG	1:A:1979:GLU:N	2.89	0.41
1:A:2892:LEU:HD23	1:A:2892:LEU:HA	1.92	0.41
1:A:2908:LYS:HE3	1:A:2915:ARG:NH1	2.36	0.41
1:A:3090:TYR:CE1	1:A:3102:TYR:HE2	2.38	0.41
1:A:3114:TYR:HA	1:A:3117:ILE:HG12	2.01	0.41
1:A:3328:ILE:HD11	1:A:3412:ALA:HB2	2.03	0.41
1:A:3421:ASP:OD2	1:A:3467:ARG:HG2	2.20	0.41
1:A:3533:PHE:O	1:A:3537:SER:OG	2.34	0.41
1:A:3533:PHE:HA	1:A:3536:SER:HB3	2.03	0.41
2:B:143:LEU:HA	2:B:146:VAL:HB	2.03	0.41
2:B:238:LYS:O	2:B:242:LEU:N	2.44	0.41
2:B:403:ARG:HH11	2:B:404:ARG:HB3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:493:CYS:HB3	3:C:506:PRO:HG3	2.02	0.41
1:F:262:LEU:HD13	4:J:20:DT:OP1	2.20	0.41
1:F:859:LEU:O	1:F:862:LEU:HB3	2.20	0.41
1:F:1297:PHE:HA	1:F:1301:ILE:HG12	2.02	0.41
1:F:1529:VAL:HG11	1:F:1581:GLU:OE1	2.20	0.41
1:F:1769:GLU:OE2	1:F:1770:GLN:N	2.50	0.41
1:F:1812:LEU:N	1:F:1815:THR:OG1	2.54	0.41
1:F:1971:PRO:C	1:F:1973:LYS:N	2.78	0.41
1:F:2180:GLU:OE2	1:F:2222:HIS:ND1	2.41	0.41
1:F:2421:VAL:HG23	1:F:2457:PRO:HG3	2.03	0.41
1:F:3072:GLU:HG2	1:F:3073:LEU:N	2.35	0.41
1:F:3176:MET:CE	1:F:3245:SER:HB2	2.50	0.41
1:F:3617:LEU:HB3	1:F:3640:PHE:CD1	2.56	0.41
1:F:3629:ARG:O	1:F:3633:ILE:HG23	2.21	0.41
1:F:3842:TRP:HB3	1:F:3858:MET:HG2	2.01	0.41
1:F:3980:MET:O	1:F:3983:ILE:HG22	2.20	0.41
1:F:4079:ALA:HA	1:F:4082:ARG:NH1	2.35	0.41
1:F:4082:ARG:O	1:F:4090:ARG:HG3	2.20	0.41
3:H:134:ILE:O	3:H:164:PHE:HD2	2.02	0.41
3:H:295:TYR:H	3:H:307:LYS:HE3	1.86	0.41
3:H:601:LEU:HA	3:H:604:GLN:HG2	2.02	0.41
4:J:29:DG:C2	4:J:30:DT:C2	3.09	0.41
1:A:30:ALA:HA	1:A:33:GLN:NE2	2.35	0.41
1:A:232:CYS:HB2	1:A:278:HIS:CD2	2.56	0.41
1:A:295:GLU:HG2	1:A:296:VAL:N	2.36	0.41
1:A:364:ARG:HA	1:A:416:SER:OG	2.20	0.41
1:A:429:GLU:HA	1:A:432:THR:HG23	2.01	0.41
1:A:568:PHE:O	1:A:569:VAL:C	2.64	0.41
1:A:649:PHE:N	1:A:649:PHE:CD1	2.88	0.41
1:A:800:LEU:HD21	1:A:855:VAL:HG11	2.01	0.41
1:A:893:SER:HB3	1:A:905:ILE:O	2.20	0.41
1:A:894:PHE:HB3	1:A:905:ILE:HD11	2.03	0.41
1:A:1033:ILE:O	1:A:1037:LEU:N	2.35	0.41
1:A:1086:TYR:CD2	1:A:1133:HIS:CE1	3.09	0.41
1:A:1102:GLU:OE1	1:A:1102:GLU:N	2.34	0.41
1:A:1274:ARG:HA	1:A:1274:ARG:NE	2.34	0.41
1:A:1685:ASP:OD2	1:A:1687:HIS:NE2	2.53	0.41
1:A:1971:PRO:HA	1:A:1974:ASN:OD1	2.21	0.41
1:A:2152:ASN:OD1	1:A:2153:THR:HG23	2.20	0.41
1:A:2175:GLU:HG3	1:A:2176:ASN:N	2.35	0.41
1:A:2190:VAL:HG21	1:A:2241:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2510:LEU:CD1	1:A:2521:ILE:HG21	2.50	0.41
1:A:2554:PHE:HB3	1:A:2854:PHE:HE1	1.85	0.41
1:A:2787:HIS:O	1:A:2790:LEU:HB3	2.20	0.41
1:A:2939:LEU:O	1:A:2943:PHE:N	2.51	0.41
1:A:2981:TRP:HD1	1:A:2985:GLU:CD	2.29	0.41
1:A:3134:ALA:O	1:A:3138:ILE:HG13	2.20	0.41
1:A:3389:VAL:HA	1:A:3392:ALA:HB3	2.02	0.41
1:A:3646:LYS:HD3	1:A:3650:LYS:HA	2.03	0.41
1:A:3820:MET:HE1	1:A:3825:LYS:HB2	2.02	0.41
2:B:35:ARG:HG2	2:B:80:ARG:NH1	2.35	0.41
2:B:296:VAL:HG23	3:C:295:TYR:HB3	2.02	0.41
3:C:112:ILE:HG13	3:C:112:ILE:H	1.75	0.41
3:C:496:HIS:NE2	3:C:506:PRO:HA	2.35	0.41
3:C:526:SER:O	3:C:529:PRO:HD2	2.21	0.41
1:F:138:PHE:HE2	1:F:177:LEU:HD13	1.86	0.41
1:F:148:LYS:O	1:F:152:LEU:HD23	2.21	0.41
1:F:229:SER:O	1:F:233:ASN:ND2	2.49	0.41
1:F:259:GLN:OE1	1:F:261:ASP:HB3	2.21	0.41
1:F:671:SER:HB3	1:F:732:PHE:HA	2.02	0.41
1:F:866:ILE:H	1:F:866:ILE:HD12	1.86	0.41
1:F:1465:HIS:HA	1:F:1468:LEU:HB2	2.02	0.41
1:F:2490:GLU:HG2	1:F:2495:SER:HB2	2.03	0.41
1:F:2991:LYS:HG2	1:F:2994:TRP:CZ3	2.55	0.41
1:F:3963:LEU:HA	1:F:3967:PHE:HD2	1.86	0.41
2:G:451:LYS:HG3	2:G:452:ILE:H	1.86	0.41
3:H:98:ILE:HD12	3:H:98:ILE:HA	1.94	0.41
3:H:113:VAL:O	3:H:117:VAL:HG13	2.20	0.41
3:H:202:LYS:O	3:H:205:LEU:HG	2.21	0.41
3:H:509:GLN:OE1	3:H:512:ILE:HG23	2.20	0.41
4:J:27:DT:H2"	4:J:28:DA:N7	2.35	0.41
1:A:544:ILE:HA	1:A:547:ASP:OD2	2.21	0.41
1:A:1274:ARG:HA	1:A:1274:ARG:NH1	2.36	0.41
1:A:2253:TYR:N	1:A:2256:ILE:HD13	2.35	0.41
1:A:2300:PHE:HB2	1:A:2301:GLN:NE2	2.35	0.41
1:A:2503:LYS:O	1:A:2507:ILE:HG12	2.21	0.41
1:A:3141:PHE:O	1:A:3145:ILE:HG22	2.21	0.41
1:A:3231:ILE:O	1:A:3235:LYS:HG3	2.20	0.41
1:A:3264:LYS:HA	1:A:3267:LYS:HD2	2.03	0.41
1:A:3274:VAL:HG11	1:A:3318:LYS:HE3	2.03	0.41
1:A:3368:GLU:OE1	1:A:3368:GLU:N	2.50	0.41
1:A:3695:LEU:O	1:A:3695:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3727:THR:O	1:A:3737:ARG:N	2.53	0.41
2:B:43:ASP:O	2:B:48:MET:HE3	2.21	0.41
2:B:164:LYS:HD2	2:B:198:ILE:HG13	2.02	0.41
2:B:420:LEU:HA	2:B:426:GLN:HA	2.02	0.41
2:B:438:PRO:O	3:C:480:THR:HA	2.21	0.41
3:C:315:ARG:HA	3:C:320:ILE:HD13	2.02	0.41
3:C:512:ILE:O	3:C:515:MET:HG2	2.21	0.41
1:F:211:ALA:HB1	3:H:548:VAL:HA	2.02	0.41
1:F:564:LEU:O	1:F:565:TYR:C	2.63	0.41
1:F:583:LEU:HA	1:F:615:ALA:H	1.85	0.41
1:F:677:ALA:O	1:F:680:ILE:HG22	2.20	0.41
1:F:833:HIS:O	1:F:833:HIS:CG	2.73	0.41
1:F:1146:ASN:OD1	1:F:1165:LEU:HD12	2.21	0.41
1:F:1156:GLY:C	1:F:1158:PRO:HD3	2.45	0.41
1:F:1241:LEU:HB3	1:F:1256:TRP:CE3	2.55	0.41
1:F:1759:LEU:HD23	1:F:1759:LEU:C	2.45	0.41
1:F:2353:GLN:HA	1:F:2356:MET:CG	2.50	0.41
1:F:2472:GLN:HA	1:F:2475:ASN:OD1	2.21	0.41
1:F:2950:LYS:HZ1	1:F:2981:TRP:CG	2.39	0.41
1:F:3182:ILE:HG13	1:F:3183:ILE:N	2.36	0.41
1:F:3315:TYR:HD2	1:F:3323:PHE:CA	2.34	0.41
1:F:3548:GLY:H	1:F:3550:LYS:NZ	2.18	0.41
1:F:3564:GLN:O	1:F:3568:ILE:HD11	2.20	0.41
1:F:3769:GLN:HA	1:F:3772:ASN:CG	2.46	0.41
1:F:3923:ARG:H	1:F:3959:MET:HE1	1.85	0.41
2:G:299:LYS:O	3:H:293:THR:HA	2.19	0.41
2:G:413:LEU:HA	2:G:434:LEU:HA	2.02	0.41
3:H:513:TRP:HA	3:H:516:LEU:HB3	2.02	0.41
5:I:35:DT:C4	5:I:36:DA:N6	2.89	0.41
6:D:16:DA:N6	7:E:42:DA:C6	2.89	0.41
1:A:15:LEU:O	1:A:18:THR:OG1	2.36	0.41
1:A:39:GLY:O	1:A:43:VAL:HG23	2.21	0.41
1:A:321:LYS:O	1:A:324:SER:CB	2.68	0.41
1:A:337:LYS:HE2	1:A:337:LYS:HB3	1.73	0.41
1:A:349:ILE:HD12	1:A:349:ILE:HA	1.93	0.41
1:A:848:LEU:O	1:A:851:ILE:HB	2.19	0.41
1:A:990:GLN:HG3	1:A:2781:PRO:HG3	2.02	0.41
1:A:1013:ILE:HD12	1:A:1033:ILE:HD11	2.03	0.41
1:A:1038:LYS:HZ2	1:A:1039:TRP:CG	2.39	0.41
1:A:1145:LEU:O	1:A:1165:LEU:HG	2.20	0.41
1:A:1301:ILE:HD12	1:A:1330:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1322:THR:OG1	1:A:1325:GLN:NE2	2.54	0.41
1:A:1365:ASN:OD1	1:A:1366:THR:N	2.54	0.41
1:A:1412:LYS:HD2	1:A:1415:LEU:HD22	2.03	0.41
1:A:1479:VAL:HG23	1:A:1524:LEU:HD21	2.03	0.41
1:A:1492:ALA:CB	1:A:1555:HIS:HE1	2.34	0.41
1:A:1576:ASP:OD1	1:A:1577:LEU:HD22	2.20	0.41
1:A:1667:SER:O	1:A:1671:VAL:HG22	2.21	0.41
1:A:1860:GLU:O	1:A:1863:PHE:HB3	2.20	0.41
1:A:2102:LYS:HD2	1:A:2105:HIS:HB3	2.01	0.41
1:A:2127:LYS:HA	1:A:2127:LYS:HD2	1.84	0.41
1:A:2151:ILE:HG12	1:A:2188:GLU:HG2	2.02	0.41
1:A:2234:ASN:HA	1:A:2237:ILE:HD13	2.03	0.41
1:A:2320:ALA:CB	1:A:2366:LYS:HB2	2.51	0.41
1:A:2357:GLU:OE1	1:A:2357:GLU:N	2.53	0.41
1:A:2455:LEU:O	1:A:2459:VAL:N	2.33	0.41
1:A:2455:LEU:O	1:A:2459:VAL:HG22	2.21	0.41
1:A:2530:ARG:HG3	1:A:2531:LEU:HD13	2.03	0.41
1:A:2951:GLN:CD	1:A:2951:GLN:H	2.29	0.41
1:A:3147:LYS:HD2	1:A:3150:ASN:OD1	2.21	0.41
1:A:3160:LEU:O	1:A:3163:THR:HB	2.21	0.41
1:A:3283:LEU:CD2	1:A:3287:ARG:HH21	2.30	0.41
1:A:3415:THR:O	1:A:3418:ASP:HB3	2.20	0.41
1:A:3549:HIS:O	1:A:3552:LYS:N	2.54	0.41
1:A:3588:TRP:CZ2	1:A:3613:MET:CB	3.04	0.41
1:A:3680:LEU:HB3	1:A:3682:GLU:CD	2.45	0.41
1:A:3689:ASP:O	1:A:3691:LYS:HE2	2.21	0.41
1:A:3753:LYS:NZ	1:A:3756:GLU:O	2.54	0.41
1:A:3758:LEU:O	1:A:3762:GLN:N	2.34	0.41
1:A:3968:ILE:HD13	1:A:3976:GLU:HB2	2.03	0.41
1:A:3981:TYR:O	1:A:3985:VAL:HG23	2.21	0.41
1:A:4016:PHE:O	1:A:4020:MET:N	2.53	0.41
1:A:4019:LYS:HD3	1:A:4020:MET:HE2	2.02	0.41
1:A:4021:LEU:HA	1:A:4027:TRP:CD1	2.55	0.41
2:B:144:SER:HA	2:B:189:LYS:HZ2	1.81	0.41
2:B:185:ARG:O	2:B:189:LYS:HG2	2.21	0.41
2:B:404:ARG:HH11	2:B:405:ASN:ND2	2.19	0.41
3:C:7:LYS:HB2	3:C:7:LYS:HE3	1.76	0.41
3:C:19:THR:OG1	3:C:104:GLN:OE1	2.39	0.41
3:C:81:ARG:NE	3:C:81:ARG:HA	2.35	0.41
3:C:167:PHE:HZ	3:C:197:ILE:HG21	1.86	0.41
3:C:347:LYS:HD3	3:C:389:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:447:THR:O	3:C:450:GLN:HG2	2.21	0.41
3:C:552:GLU:HG3	3:C:553:ILE:N	2.36	0.41
3:C:629:THR:N	3:C:630:PRO:HD2	2.35	0.41
3:C:674:PHE:O	3:C:678:VAL:HG23	2.21	0.41
1:F:116:THR:OG1	3:H:302:GLU:HG2	2.20	0.41
1:F:392:CYS:O	1:F:397:LEU:HD23	2.21	0.41
1:F:578:LYS:C	1:F:579:LEU:HD22	2.45	0.41
1:F:736:LEU:HB3	1:F:740:ILE:CG2	2.48	0.41
1:F:981:ARG:HG2	1:F:981:ARG:H	1.65	0.41
1:F:1172:LEU:HD23	1:F:1194:PHE:HE2	1.86	0.41
1:F:1194:PHE:O	1:F:1198:LEU:HG	2.21	0.41
1:F:1260:LEU:HD21	1:F:1341:ILE:HD11	2.02	0.41
1:F:1264:LEU:HG	1:F:1344:PHE:HB2	2.01	0.41
1:F:1299:GLU:OE1	1:F:1299:GLU:N	2.53	0.41
1:F:1456:LYS:HG3	1:F:1460:ARG:HH22	1.86	0.41
1:F:1558:TYR:O	1:F:1562:LEU:HG	2.20	0.41
1:F:1573:LYS:H	1:F:1573:LYS:HD2	1.86	0.41
1:F:2140:LEU:N	1:F:2143:ARG:HH21	2.18	0.41
1:F:2150:VAL:O	1:F:2154:GLU:HB3	2.21	0.41
1:F:2224:PHE:O	1:F:2224:PHE:CG	2.74	0.41
1:F:2264:ASP:OD2	1:F:2269:ASP:N	2.54	0.41
1:F:2878:ALA:O	1:F:2881:LEU:HB2	2.21	0.41
1:F:2897:LEU:HD21	1:F:2923:TRP:CH2	2.55	0.41
1:F:3009:LYS:HD2	1:F:3051:LEU:HD21	2.02	0.41
1:F:3099:ALA:O	1:F:3103:ILE:HG13	2.21	0.41
1:F:3352:GLU:OE1	1:F:3356:ALA:N	2.54	0.41
1:F:3646:LYS:HG3	1:F:3650:LYS:HZ1	1.86	0.41
1:F:3666:LEU:HD12	1:F:3666:LEU:HA	1.89	0.41
2:G:283:PRO:O	3:H:314:PHE:HE2	2.04	0.41
2:G:486:HIS:O	2:G:490:LEU:HG	2.20	0.41
3:H:163:PHE:O	3:H:225:TYR:HB2	2.21	0.41
3:H:402:ASN:CG	3:H:403:PRO:HD2	2.45	0.41
3:H:469:LYS:HA	3:H:469:LYS:HD3	1.95	0.41
1:A:190:ILE:O	1:A:193:ALA:N	2.54	0.41
1:A:203:GLU:OE2	1:A:206:THR:HB	2.21	0.41
1:A:247:GLU:HB3	1:A:251:PHE:CE2	2.55	0.41
1:A:264:ARG:HG2	1:A:265:TYR:H	1.86	0.41
1:A:429:GLU:OE1	1:A:429:GLU:N	2.31	0.41
1:A:647:TYR:CD2	1:A:703:CYS:HB3	2.56	0.41
1:A:1465:HIS:HA	1:A:1468:LEU:HB3	2.03	0.41
1:A:1642:LYS:O	1:A:1646:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1855:PHE:HA	1:A:1863:PHE:HE1	1.86	0.41
1:A:1871:MET:HA	1:A:1874:TYR:CD2	2.56	0.41
1:A:2316:TYR:OH	1:A:2359:LYS:HD2	2.21	0.41
1:A:2421:VAL:CG2	1:A:2457:PRO:HG3	2.44	0.41
1:A:2510:LEU:HD13	1:A:2521:ILE:HG21	2.03	0.41
1:A:2576:MET:HE1	1:A:2790:LEU:HD22	2.01	0.41
1:A:2965:TYR:HB2	1:A:3005:LEU:HD21	2.03	0.41
1:A:3008:TRP:HD1	1:A:3011:LEU:HD22	1.86	0.41
1:A:3054:GLN:HB2	1:A:3056:GLU:OE2	2.21	0.41
1:A:3085:GLU:O	1:A:3088:LEU:HB3	2.21	0.41
1:A:3822:GLN:NE2	1:A:3823:GLU:OE1	2.53	0.41
1:A:3989:ARG:HG3	1:A:3989:ARG:NH1	2.36	0.41
1:A:4012:ASP:N	1:A:4015:ASN:OD1	2.54	0.41
2:B:181:ALA:O	2:B:185:ARG:HG3	2.21	0.41
2:B:413:LEU:HA	2:B:434:LEU:HA	2.03	0.41
2:B:418:GLU:OE2	3:C:437:SER:HB3	2.21	0.41
3:C:165:LEU:O	3:C:227:PHE:N	2.54	0.41
3:C:184:ARG:HB3	3:C:187:GLY:H	1.86	0.41
3:C:405:VAL:N	3:C:421:TYR:OH	2.54	0.41
3:C:651:GLU:HG2	3:C:654:ARG:NH2	2.36	0.41
1:F:38:LEU:HD21	1:F:85:ILE:HG13	2.03	0.41
1:F:151:GLU:HG2	1:F:152:LEU:HD22	2.03	0.41
1:F:199:ALA:HA	2:G:312:LEU:HD21	2.02	0.41
1:F:454:GLN:HA	1:F:457:CYS:HB2	2.02	0.41
1:F:959:TYR:HD1	1:F:1004:GLN:OE1	2.04	0.41
1:F:962:TYR:HB3	1:F:966:PHE:CE2	2.56	0.41
1:F:1082:PHE:HE2	1:F:1133:HIS:HB2	1.85	0.41
1:F:1311:LYS:HD3	1:F:1311:LYS:HA	1.90	0.41
1:F:1427:SER:HA	1:F:1430:GLU:CD	2.46	0.41
1:F:1601:LEU:HB3	1:F:1651:LYS:HG2	2.03	0.41
1:F:1611:GLN:HB2	1:F:1613:HIS:ND1	2.36	0.41
1:F:1727:ARG:NE	1:F:1772:HIS:HA	2.36	0.41
1:F:1743:MET:O	1:F:1747:LEU:HG	2.21	0.41
1:F:1809:ASP:OD1	3:H:672:ASN:ND2	2.54	0.41
1:F:2426:HIS:CG	1:F:2427:ARG:N	2.88	0.41
1:F:2475:ASN:HA	1:F:2478:MET:HE3	2.03	0.41
1:F:3019:ILE:HD13	1:F:3037:GLN:HE22	1.86	0.41
1:F:3228:SER:HA	1:F:3231:ILE:HG12	2.03	0.41
1:F:3498:TRP:HE3	1:F:3501:HIS:CE1	2.39	0.41
1:F:3729:MET:C	1:F:3735:PRO:HD2	2.46	0.41
1:F:3750:PHE:HD1	1:F:3804:GLU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3791:TYR:HB2	1:F:3804:GLU:CD	2.46	0.41
1:F:3813:LYS:HG3	1:F:3926:ASN:ND2	2.36	0.41
1:F:3873:LYS:HA	1:F:3873:LYS:HD2	1.91	0.41
3:H:90:LEU:O	3:H:94:ILE:HG13	2.21	0.41
3:H:106:ASP:CG	3:H:109:ASP:H	2.29	0.41
3:H:340:PHE:CE2	3:H:393:VAL:HG21	2.56	0.41
3:H:510:GLN:HA	3:H:513:TRP:HE3	1.79	0.41
4:J:22:DG:C2	5:I:35:DT:N3	2.89	0.41
1:A:329:LYS:CD	1:A:329:LYS:C	2.93	0.40
1:A:432:THR:OG1	1:A:433:PRO:HD3	2.20	0.40
1:A:785:MET:HA	1:A:788:TYR:CD2	2.46	0.40
1:A:975:ASP:HB3	1:A:980:THR:HG21	2.03	0.40
1:A:1311:LYS:HA	1:A:1311:LYS:HD3	1.69	0.40
1:A:1665:HIS:H	1:A:1668:PHE:HB3	1.85	0.40
1:A:1803:GLU:OE2	1:A:1806:ARG:NH2	2.54	0.40
1:A:1811:ARG:NH2	3:C:625:ASP:HB3	2.37	0.40
1:A:2316:TYR:HA	1:A:2319:ALA:HB3	2.03	0.40
1:A:2357:GLU:HG2	1:A:2358:ASP:H	1.83	0.40
1:A:3235:LYS:O	1:A:3238:MET:HG2	2.21	0.40
1:A:3251:ASN:ND2	1:A:3254:LEU:HB3	2.32	0.40
1:A:3272:TRP:N	1:A:3272:TRP:CD1	2.87	0.40
1:A:3466:PRO:O	1:A:3469:LEU:N	2.54	0.40
1:A:3543:LYS:HB3	1:A:3548:GLY:CA	2.48	0.40
1:A:3603:LYS:HB2	1:A:3604:LYS:NZ	2.36	0.40
1:A:3809:THR:OG1	1:A:3929:MET:HB3	2.21	0.40
1:A:3822:GLN:H	1:A:3822:GLN:HG3	1.65	0.40
1:A:3904:PHE:HA	1:A:3907:SER:OG	2.21	0.40
1:A:4075:ARG:HA	1:A:4078:VAL:HG12	2.04	0.40
2:B:262:LYS:HD3	2:B:264:ASN:O	2.20	0.40
2:B:384:ALA:HA	3:C:446:PRO:HB3	2.02	0.40
2:B:419:GLU:OE2	2:B:428:THR:HB	2.21	0.40
2:B:450:GLU:HA	3:C:416:TYR:CD1	2.55	0.40
2:B:482:VAL:HG13	3:C:333:TYR:O	2.21	0.40
3:C:326:VAL:O	3:C:330:GLN:HG2	2.20	0.40
1:F:172:GLU:H	1:F:172:GLU:CD	2.25	0.40
1:F:257:ARG:NH2	3:H:552:GLU:HB3	2.36	0.40
1:F:360:SER:O	1:F:363:ILE:HG22	2.21	0.40
1:F:393:LYS:HB3	1:F:393:LYS:HE3	1.80	0.40
1:F:536:SER:HB2	1:F:539:GLN:HE22	1.87	0.40
1:F:613:HIS:ND1	1:F:614:PRO:O	2.53	0.40
1:F:991:LEU:HB3	1:F:995:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1000:LYS:HD2	1:F:1000:LYS:HA	1.86	0.40
1:F:1097:GLU:HA	1:F:1145:LEU:HD21	2.02	0.40
1:F:1123:THR:HA	1:F:1126:GLN:NE2	2.34	0.40
1:F:1282:LEU:HD12	1:F:1359:LEU:O	2.20	0.40
1:F:1915:LEU:HD22	1:F:1918:LEU:HD12	2.03	0.40
1:F:2503:LYS:HA	1:F:2503:LYS:HD3	1.84	0.40
1:F:2574:ASN:N	1:F:2786:LYS:HG3	2.36	0.40
1:F:3029:LYS:HA	1:F:3074:GLN:OE1	2.21	0.40
1:F:3061:LEU:HD23	1:F:3061:LEU:H	1.86	0.40
1:F:3182:ILE:O	1:F:3186:ARG:HG3	2.21	0.40
1:F:3420:CYS:HB2	1:F:3446:VAL:HG11	2.01	0.40
1:F:3554:PHE:HD1	1:F:3557:ARG:HE	1.69	0.40
1:F:3679:ASN:C	1:F:3726:VAL:HB	2.46	0.40
1:F:3820:MET:CE	1:F:3882:LEU:HB2	2.51	0.40
1:F:3849:LYS:H	1:F:3854:ALA:CB	2.34	0.40
1:F:4008:GLU:OE2	1:F:4010:SER:HB3	2.21	0.40
1:F:4110:GLN:O	1:F:4116:ILE:HD11	2.22	0.40
2:G:325:ARG:HB3	2:G:327:ILE:HD11	2.03	0.40
2:G:400:TYR:O	2:G:409:TYR:N	2.50	0.40
2:G:418:GLU:HB3	2:G:426:GLN:HE22	1.85	0.40
3:H:133:GLU:OE1	3:H:133:GLU:N	2.54	0.40
4:J:33:DA:C8	4:J:34:DT:C4	3.10	0.40
1:A:17:GLU:O	1:A:21:ALA:N	2.54	0.40
1:A:134:LEU:HD23	1:A:134:LEU:HA	1.90	0.40
1:A:173:LYS:HE2	1:A:173:LYS:HB2	1.86	0.40
1:A:211:ALA:C	1:A:213:ARG:H	2.28	0.40
1:A:519:TRP:HB3	1:A:521:VAL:HG23	2.03	0.40
1:A:523:THR:C	1:A:524:TYR:CG	3.00	0.40
1:A:579:LEU:HD23	1:A:579:LEU:HA	1.91	0.40
1:A:585:ILE:HA	1:A:611:ASN:O	2.22	0.40
1:A:770:LEU:O	1:A:771:ASN:C	2.63	0.40
1:A:789:TYR:HB3	1:A:793:LEU:HD13	2.03	0.40
1:A:798:GLY:HA2	1:A:801:LYS:HG2	2.03	0.40
1:A:890:LYS:HE2	1:A:906:PHE:CG	2.57	0.40
1:A:894:PHE:C	1:A:904:VAL:HG23	2.47	0.40
1:A:1039:TRP:HA	1:A:1043:GLN:H	1.86	0.40
1:A:1149:LYS:HD2	1:A:1149:LYS:HA	1.88	0.40
1:A:1710:LEU:HB2	1:A:1757:MET:HE1	2.02	0.40
1:A:1873:TYR:O	1:A:1877:LEU:HD23	2.21	0.40
1:A:1893:GLU:H	1:A:1895:LYS:HZ1	1.70	0.40
1:A:2397:CYS:O	1:A:2401:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2447:LYS:HZ3	1:A:2449:VAL:N	2.16	0.40
1:A:3036:TYR:O	1:A:3039:THR:HB	2.21	0.40
1:A:3413:TYR:HB3	1:A:3453:ALA:CB	2.51	0.40
1:A:3474:ARG:NH1	1:A:3474:ARG:HB2	2.36	0.40
1:A:3602:ASN:OD1	1:A:3602:ASN:N	2.54	0.40
1:A:3883:LEU:HG	1:A:3884:LYS:HD3	2.03	0.40
1:A:3967:PHE:O	1:A:3970:LEU:N	2.55	0.40
1:A:4000:ASN:O	1:A:4004:VAL:HG22	2.21	0.40
2:B:49:PHE:HZ	2:B:131:PHE:HB3	1.86	0.40
2:B:325:ARG:NH2	2:B:327:ILE:HD13	2.36	0.40
2:B:515:ASN:C	2:B:515:ASN:HD22	2.29	0.40
3:C:553:ILE:HG13	3:C:554:PHE:H	1.86	0.40
1:F:11:SER:O	1:F:14:ARG:HG3	2.22	0.40
1:F:132:ILE:HA	1:F:135:LEU:HD12	2.03	0.40
1:F:241:ASP:O	1:F:242:PRO:C	2.65	0.40
1:F:254:LYS:CE	1:F:268:PRO:HB3	2.52	0.40
1:F:391:ARG:O	1:F:395:MET:HG2	2.22	0.40
1:F:422:LEU:HD21	1:F:548:GLU:HG3	2.03	0.40
1:F:457:CYS:O	1:F:460:ALA:N	2.54	0.40
1:F:539:GLN:OE1	1:F:539:GLN:N	2.45	0.40
1:F:632:GLU:O	1:F:635:PRO:HD2	2.22	0.40
1:F:971:ARG:CZ	1:F:971:ARG:HA	2.50	0.40
1:F:1447:ARG:HH11	1:F:1447:ARG:HB2	1.86	0.40
1:F:1504:ASP:O	1:F:1508:LYS:N	2.46	0.40
1:F:1924:THR:HG22	1:F:1924:THR:O	2.21	0.40
1:F:2216:LEU:O	1:F:2219:LEU:HB2	2.21	0.40
1:F:2287:PRO:HD3	1:F:2329:TYR:CD2	2.55	0.40
1:F:2555:LEU:HD13	1:F:2854:PHE:HD1	1.86	0.40
1:F:2950:LYS:HE2	1:F:2950:LYS:HB3	1.93	0.40
1:F:3269:ARG:HH11	1:F:3270:ASP:H	1.70	0.40
1:F:3333:THR:O	1:F:3337:ILE:HG12	2.21	0.40
1:F:3686:TRP:O	1:F:3690:PHE:HB2	2.21	0.40
1:F:3952:PHE:O	1:F:3953:LEU:HD22	2.21	0.40
3:H:363:LYS:HA	3:H:419:LEU:O	2.20	0.40
1:A:346:TYR:CE2	1:A:350:ARG:HD2	2.56	0.40
1:A:447:PRO:HB2	1:A:526:ASP:CG	2.47	0.40
1:A:642:PHE:O	1:A:643:GLU:C	2.64	0.40
1:A:939:MET:O	1:A:942:LEU:HB2	2.21	0.40
1:A:1204:PRO:O	1:A:1208:LEU:HG	2.21	0.40
1:A:1294:VAL:HA	1:A:1297:PHE:CD2	2.57	0.40
1:A:1686:LEU:O	1:A:1689:LYS:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1956:PHE:O	1:A:1956:PHE:CG	2.75	0.40
1:A:2184:TYR:O	1:A:2185:MET:C	2.63	0.40
1:A:2201:THR:OG1	1:A:2203:THR:HG22	2.21	0.40
1:A:2941:GLY:HA3	1:A:3978:GLY:HA2	2.02	0.40
1:A:3144:PHE:HA	1:A:3150:ASN:ND2	2.34	0.40
1:A:3635:THR:HA	1:A:3638:LYS:HD2	2.02	0.40
2:B:204:HIS:NE2	2:B:213:ILE:HB	2.36	0.40
2:B:296:VAL:HG12	3:C:297:LEU:HA	2.03	0.40
2:B:509:PRO:HA	2:B:514:MET:SD	2.61	0.40
3:C:77:ILE:HG21	3:C:113:VAL:HG21	2.02	0.40
3:C:604:GLN:O	3:C:604:GLN:HG3	2.22	0.40
1:F:200:PHE:HB3	1:F:224:LEU:HD21	2.04	0.40
1:F:278:HIS:CD2	1:F:281:GLN:HG3	2.57	0.40
1:F:339:GLN:O	1:F:343:GLU:HG3	2.22	0.40
1:F:352:VAL:O	1:F:353:ASP:HB2	2.21	0.40
1:F:978:GLN:H	1:F:978:GLN:CD	2.28	0.40
1:F:1195:VAL:HA	1:F:1198:LEU:HD12	2.03	0.40
1:F:1330:TYR:O	1:F:1334:LYS:HG3	2.21	0.40
1:F:1762:MET:HA	1:F:1765:VAL:HG12	2.03	0.40
1:F:2372:PRO:O	1:F:2374:LEU:N	2.51	0.40
1:F:2479:TRP:O	1:F:2482:ASP:HB2	2.21	0.40
1:F:2532:PRO:HB2	1:F:2537:ASP:HB3	2.02	0.40
1:F:2812:LEU:O	1:F:2816:ILE:HG12	2.21	0.40
1:F:2825:THR:C	1:F:2829:LYS:HE2	2.46	0.40
1:F:2969:ALA:HB2	1:F:3001:CYS:SG	2.61	0.40
1:F:3006:ALA:HA	1:F:3008:TRP:CZ3	2.56	0.40
1:F:3096:VAL:HA	1:F:3099:ALA:HB3	2.04	0.40
1:F:3275:SER:HA	1:F:3278:GLN:HE22	1.86	0.40
1:F:3641:ASP:O	1:F:3642:LYS:HG2	2.21	0.40
1:F:3746:ARG:HA	1:F:3746:ARG:HH11	1.80	0.40
1:F:3813:LYS:HZ2	1:F:3925:LEU:HB3	1.85	0.40
1:F:3820:MET:HB3	1:F:3824:GLU:OE1	2.20	0.40
2:G:433:GLN:HA	2:G:433:GLN:OE1	2.20	0.40
3:H:269:GLN:NE2	3:H:359:ASN:O	2.54	0.40
1:A:11:SER:HA	1:A:14:ARG:NE	2.36	0.40
1:A:238:MET:SD	1:A:243:GLN:HB3	2.61	0.40
1:A:267:VAL:N	1:A:268:PRO:HD2	2.37	0.40
1:A:405:ASP:HB2	1:A:406:ARG:HH11	1.86	0.40
1:A:1783:ARG:HG2	1:A:1830:HIS:NE2	2.36	0.40
1:A:1848:ILE:HA	1:A:1851:LEU:HD12	2.03	0.40
1:A:1927:MET:SD	1:A:1928:ALA:N	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2840:PHE:O	1:A:2844:LEU:HD23	2.21	0.40
1:A:3037:GLN:HA	1:A:3040:TYR:HD2	1.87	0.40
1:A:3244:ASP:OD1	1:A:3247:ARG:NH2	2.55	0.40
1:A:3258:LEU:O	1:A:3262:LEU:HG	2.21	0.40
1:A:3307:LEU:O	1:A:3308:ASP:HB2	2.22	0.40
1:A:3529:ILE:C	1:A:3532:PRO:HD2	2.46	0.40
1:A:3646:LYS:HE3	1:A:3651:LEU:H	1.87	0.40
1:A:4105:LYS:HA	1:A:4108:MET:HE3	2.02	0.40
1:A:4113:ASP:O	1:A:4117:LEU:HG	2.21	0.40
2:B:50:GLU:O	2:B:52:GLN:HG2	2.20	0.40
2:B:95:ASN:HD21	2:B:99:PHE:H	1.70	0.40
2:B:259:LEU:HG	2:B:260:LYS:N	2.37	0.40
2:B:385:LEU:HD23	2:B:432:PHE:CE1	2.56	0.40
2:B:417:GLU:OE1	2:B:417:GLU:N	2.54	0.40
2:B:420:LEU:CD2	2:B:424:LYS:HA	2.52	0.40
2:B:442:ASP:OD2	3:C:267:ILE:HD12	2.21	0.40
3:C:20:MET:HA	3:C:137:ASP:OD1	2.21	0.40
3:C:89:ASP:OD1	3:C:90:LEU:HD12	2.21	0.40
3:C:346:CYS:SG	3:C:347:LYS:N	2.94	0.40
3:C:366:ALA:O	3:C:368:ARG:NH1	2.52	0.40
3:C:448:GLU:HA	3:C:451:LEU:HD12	2.04	0.40
1:F:646:VAL:HG23	1:F:647:TYR:N	2.36	0.40
1:F:852:ARG:HA	1:F:855:VAL:HB	2.02	0.40
1:F:909:VAL:HB	1:F:910:PHE:CE2	2.56	0.40
1:F:959:TYR:C	1:F:963:LYS:HZ3	2.29	0.40
1:F:1001:PHE:HB3	1:F:1002:GLU:OE1	2.22	0.40
1:F:1483:LEU:O	1:F:1487:VAL:HG12	2.21	0.40
1:F:1629:CYS:C	1:F:1633:TRP:HE1	2.28	0.40
1:F:1700:THR:HA	1:F:1707:LEU:HD21	2.04	0.40
1:F:1845:VAL:HG13	1:F:1846:ASP:N	2.37	0.40
1:F:2105:HIS:HB2	1:F:2156:VAL:HG23	2.02	0.40
1:F:2162:LYS:HG3	1:F:2163:HIS:N	2.36	0.40
1:F:2169:LEU:CD2	1:F:2208:ASP:HB2	2.50	0.40
1:F:2207:LYS:HD2	1:F:2208:ASP:N	2.36	0.40
1:F:2383:PHE:HB3	1:F:2418:LYS:CE	2.51	0.40
1:F:2439:ILE:HA	1:F:2442:MET:CG	2.48	0.40
1:F:2484:TYR:CD1	1:F:2495:SER:HB3	2.56	0.40
1:F:2534:ASN:HB3	1:F:2537:ASP:HB3	2.04	0.40
1:F:2554:PHE:CD1	1:F:2557:LEU:HB2	2.50	0.40
1:F:2560:ASN:HA	1:F:2563:LEU:HD12	2.03	0.40
1:F:2852:PRO:HG3	1:F:2883:SER:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2887:PRO:HG2	1:F:3895:GLU:OE2	2.21	0.40
1:F:3090:TYR:CE2	1:F:3098:ARG:HG2	2.57	0.40
1:F:3147:LYS:HD3	1:F:3150:ASN:H	1.86	0.40
1:F:3641:ASP:OD1	1:F:3642:LYS:N	2.49	0.40
1:F:3652:LEU:HD12	1:F:3652:LEU:HA	1.86	0.40
1:F:3717:VAL:HA	1:F:3743:HIS:CE1	2.56	0.40
1:F:3717:VAL:C	1:F:3718:ARG:HD2	2.47	0.40
1:F:3856:MET:O	1:F:3860:LYS:HG3	2.21	0.40
1:F:4044:ILE:HG13	1:F:4045:CYS:N	2.36	0.40
1:F:4102:THR:HA	1:F:4105:LYS:HZ2	1.86	0.40
1:F:4103:GLN:O	1:F:4107:LEU:HG	2.21	0.40
2:G:59:PRO:HB3	2:G:205:LEU:HD12	2.04	0.40
2:G:386:LEU:HD23	2:G:386:LEU:HA	1.95	0.40
3:H:208:VAL:O	3:H:211:VAL:HB	2.21	0.40
3:H:456:ALA:HB1	3:H:529:PRO:HB3	2.04	0.40
3:H:520:ALA:O	3:H:524:THR:HG23	2.21	0.40
3:H:727:ASP:HA	3:H:730:ASP:OD2	2.20	0.40
6:D:22:DG:C6	7:E:34:DC:C4	3.09	0.40
1:A:38:LEU:HA	1:A:41:GLU:OE1	2.22	0.40
1:A:99:LYS:HD2	1:A:99:LYS:HA	1.82	0.40
1:A:251:PHE:HD1	1:A:254:LYS:HD2	1.86	0.40
1:A:329:LYS:C	1:A:329:LYS:HD2	2.46	0.40
1:A:363:ILE:HG13	1:A:364:ARG:N	2.36	0.40
1:A:392:CYS:O	1:A:395:MET:HG2	2.22	0.40
1:A:1107:TYR:HE2	1:A:1131:ILE:CD1	2.34	0.40
1:A:1850:VAL:HG12	1:A:1870:LYS:HG2	2.04	0.40
1:A:2386:LEU:HD13	1:A:2397:CYS:HB3	2.03	0.40
1:A:2532:PRO:C	1:A:2538:ARG:HE	2.28	0.40
1:A:2887:PRO:HA	1:A:2890:ILE:HD12	2.04	0.40
1:A:3753:LYS:NZ	1:A:3756:GLU:HB2	2.36	0.40
1:A:3953:LEU:CD1	1:A:4027:TRP:HB2	2.47	0.40
1:A:3968:ILE:HD13	1:A:3976:GLU:OE1	2.21	0.40
2:B:35:ARG:HB2	2:B:160:LYS:O	2.21	0.40
2:B:262:LYS:CB	2:B:268:VAL:HG12	2.47	0.40
2:B:282:LYS:HE3	7:E:26:DA:OP2	2.22	0.40
2:B:288:LEU:HD12	3:C:322:PRO:HA	2.04	0.40
2:B:325:ARG:HD2	2:B:325:ARG:HA	1.95	0.40
2:B:519:GLY:O	2:B:522:VAL:HG12	2.21	0.40
3:C:384:LEU:HD12	3:C:389:MET:O	2.21	0.40
3:C:616:LEU:HA	3:C:619:HIS:HD1	1.86	0.40
1:F:54:GLN:O	1:F:58:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:647:TYR:CD1	1:F:699:GLU:HB2	2.55	0.40
1:F:1145:LEU:CD1	1:F:1151:ARG:HH21	2.34	0.40
1:F:1453:SER:HA	1:F:1456:LYS:NZ	2.36	0.40
1:F:2347:LYS:HA	1:F:2350:LYS:NZ	2.36	0.40
1:F:3034:PRO:O	1:F:3038:GLU:HG3	2.21	0.40
1:F:3049:LEU:HD23	1:F:3052:LEU:HD12	2.03	0.40
1:F:3076:ALA:O	1:F:3079:GLU:HG3	2.21	0.40
1:F:3810:VAL:N	1:F:3930:VAL:O	2.44	0.40
1:F:4056:PRO:O	1:F:4060:THR:HG23	2.22	0.40
1:F:4125:GLU:OE1	1:F:4125:GLU:N	2.54	0.40
2:G:91:GLU:CD	2:G:136:GLY:HA3	2.47	0.40
2:G:173:ASP:OD2	2:G:214:SER:N	2.55	0.40
2:G:351:LYS:NZ	3:H:463:LEU:HB3	2.37	0.40
3:H:413:LYS:HD3	3:H:413:LYS:HA	1.96	0.40
3:H:654:ARG:HE	3:H:658:PHE:HZ	1.69	0.40
7:E:40:DT:H4'	7:E:41:DT:OP1	2.20	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	3714/4156 (89%)	3263 (88%)	446 (12%)	5 (0%)	48	83
1	F	3675/4156 (88%)	3257 (89%)	416 (11%)	2 (0%)	48	83
2	B	485/609 (80%)	422 (87%)	63 (13%)	0	100	100
2	G	485/609 (80%)	428 (88%)	56 (12%)	1 (0%)	43	78
3	C	699/732 (96%)	633 (91%)	66 (9%)	0	100	100
3	H	694/732 (95%)	625 (90%)	69 (10%)	0	100	100
All	All	9752/10994 (89%)	8628 (88%)	1116 (11%)	8 (0%)	49	83

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	446	PHE
1	A	3487	ILE
2	G	372	GLU
1	F	2257	PHE
1	A	2333	ARG
1	A	2945	SER
1	F	3479	THR
1	A	3320	ILE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3033/3671 (83%)	3027 (100%)	6 (0%)	87	87
1	F	3087/3671 (84%)	3084 (100%)	3 (0%)	88	89
2	B	400/548 (73%)	398 (100%)	2 (0%)	81	83
2	G	402/548 (73%)	399 (99%)	3 (1%)	76	81
3	C	591/649 (91%)	591 (100%)	0	100	100
3	H	601/649 (93%)	600 (100%)	1 (0%)	87	87
All	All	8114/9736 (83%)	8099 (100%)	15 (0%)	85	87

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	90	CYS
1	A	325	ASN
1	A	329	LYS
1	A	1551	ILE
1	A	3514	VAL
1	A	3739	ILE
2	B	92	LYS
2	B	271	VAL
1	F	554	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	F	3477	GLU
1	F	4128	MET
2	G	271	VAL
2	G	304	ASN
2	G	534	TYR
3	H	554	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (109) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	339	GLN
1	A	355	ASN
1	A	390	GLN
1	A	442	GLN
1	A	586	GLN
1	A	869	ASN
1	A	990	GLN
1	A	1047	GLN
1	A	1048	GLN
1	A	1071	ASN
1	A	1146	ASN
1	A	1367	HIS
1	A	1442	GLN
1	A	1457	GLN
1	A	1509	GLN
1	A	1555	HIS
1	A	1625	HIS
1	A	1794	GLN
1	A	1898	GLN
1	A	1946	ASN
1	A	2217	ASN
1	A	2306	ASN
1	A	2481	HIS
1	A	2483	ASN
1	A	2543	ASN
1	A	3074	GLN
1	A	3093	GLN
1	A	3105	ASN
1	A	3122	HIS
1	A	3250	ASN
1	A	3263	HIS
1	A	3278	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	3310	ASN
1	A	3383	GLN
1	A	3569	GLN
1	A	3743	HIS
1	A	3787	GLN
1	A	3808	ASN
1	A	3822	GLN
1	A	3850	HIS
1	A	4032	ASN
2	B	101	ASN
2	B	171	ASN
2	B	293	ASN
2	B	484	GLN
2	B	485	GLN
2	B	515	ASN
3	C	75	GLN
3	C	103	GLN
3	C	298	ASN
3	C	402	ASN
3	C	432	GLN
3	C	492	GLN
3	C	514	ASN
1	F	191	ASN
1	F	192	ASN
1	F	303	HIS
1	F	330	ASN
1	F	339	GLN
1	F	477	ASN
1	F	857	GLN
1	F	925	GLN
1	F	982	GLN
1	F	1083	ASN
1	F	1115	HIS
1	F	1146	ASN
1	F	1180	GLN
1	F	1251	GLN
1	F	1367	HIS
1	F	1442	GLN
1	F	1457	GLN
1	F	1477	HIS
1	F	1509	GLN
1	F	1598	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	1624	GLN
1	F	1830	HIS
1	F	1909	ASN
1	F	2130	HIS
1	F	2295	GLN
1	F	2432	GLN
1	F	2523	ASN
1	F	2886	GLN
1	F	3074	GLN
1	F	3093	GLN
1	F	3133	GLN
1	F	3263	HIS
1	F	3327	ASN
1	F	3422	GLN
1	F	3470	GLN
1	F	3590	ASN
1	F	3634	GLN
1	F	3660	ASN
2	G	126	GLN
2	G	132	GLN
2	G	176	HIS
2	G	326	GLN
2	G	458	GLN
2	G	484	GLN
2	G	485	GLN
2	G	515	ASN
3	H	76	ASN
3	H	99	GLN
3	H	104	GLN
3	H	188	HIS
3	H	360	GLN
3	H	415	ASN
3	H	450	GLN
3	H	496	HIS
3	H	500	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	F	2
1	A	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	F	4128:MET	C	5009:UNK	N	96.98
1	A	4128:MET	C	5009:UNK	N	96.43
1	A	5016:UNK	C	6004:UNK	N	49.12
1	F	5016:UNK	C	6004:UNK	N	48.83

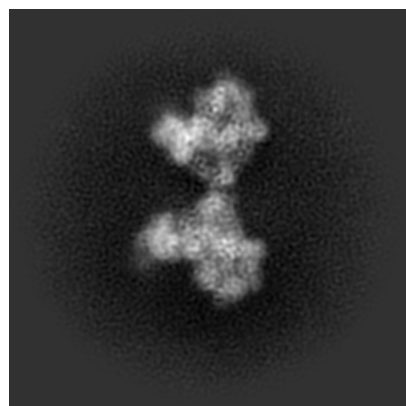
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-11219. These allow visual inspection of the internal detail of the map and identification of artifacts.

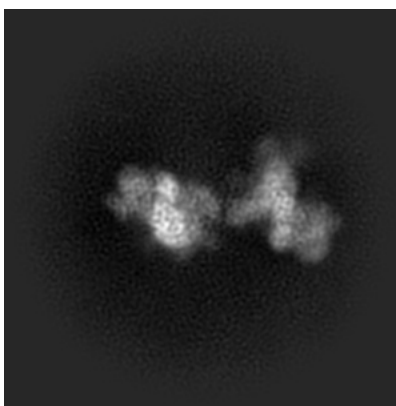
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

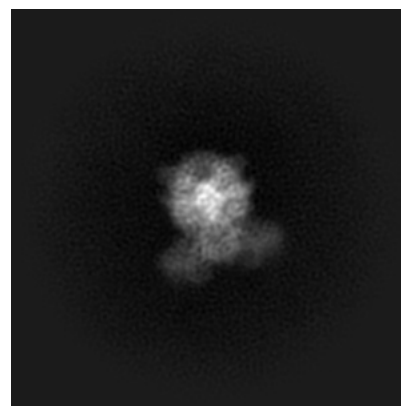
6.1.1 Primary map



X

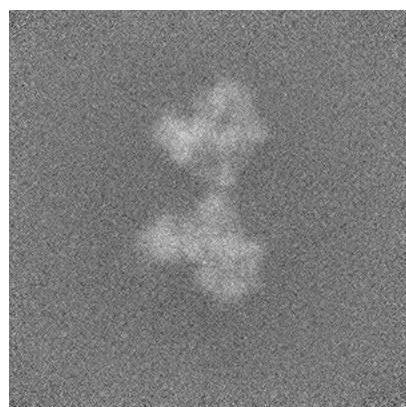


Y

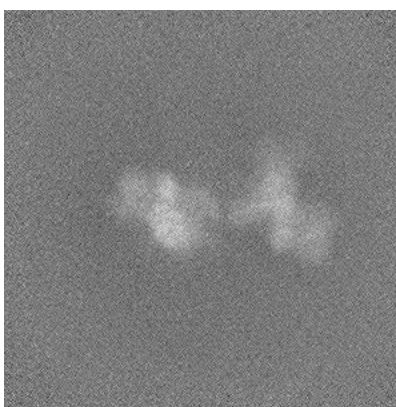


Z

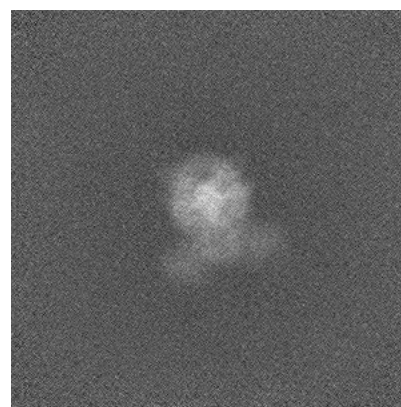
6.1.2 Raw map



X



Y

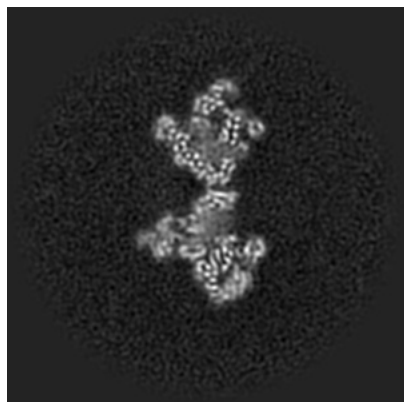


Z

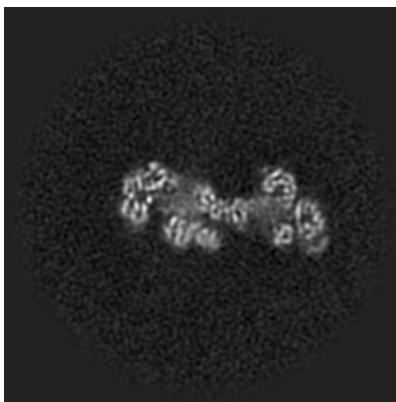
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

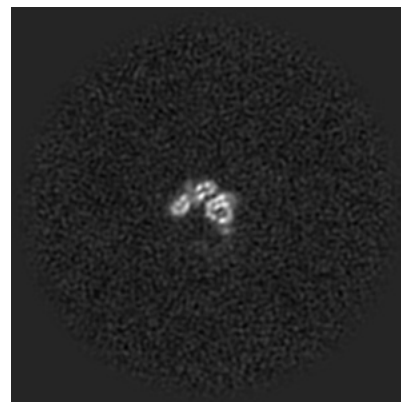
6.2.1 Primary map



X Index: 280

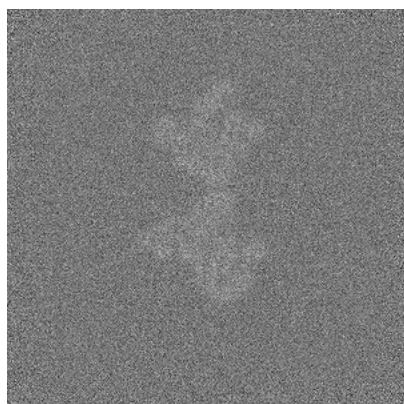


Y Index: 280

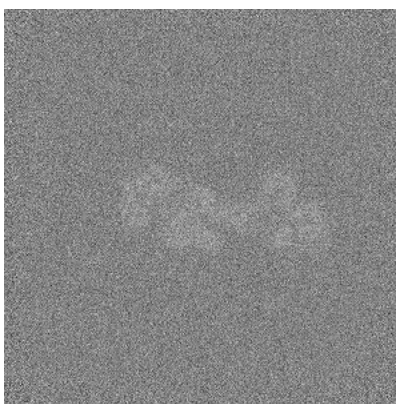


Z Index: 280

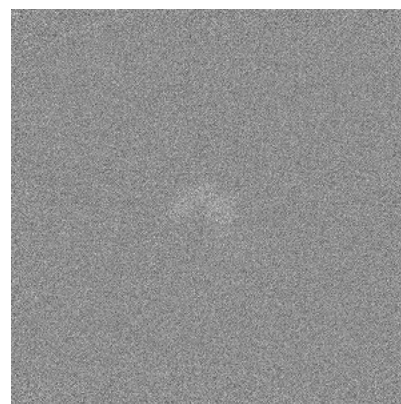
6.2.2 Raw map



X Index: 280



Y Index: 280

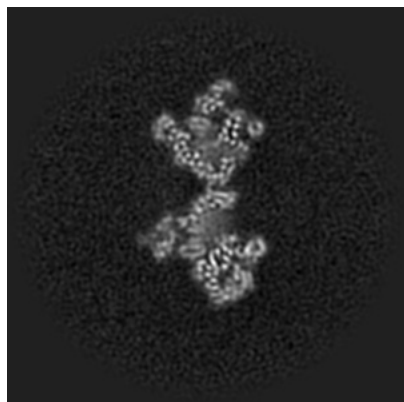


Z Index: 280

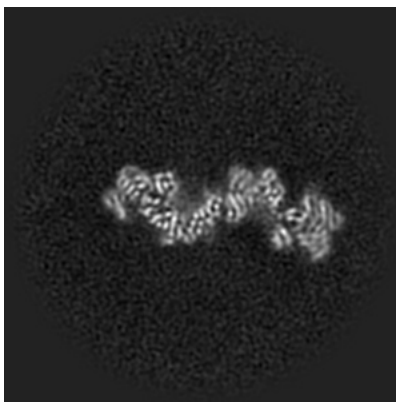
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

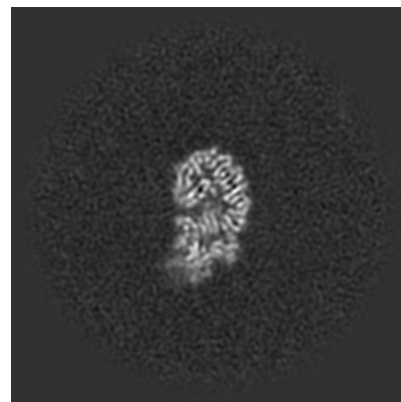
6.3.1 Primary map



X Index: 282

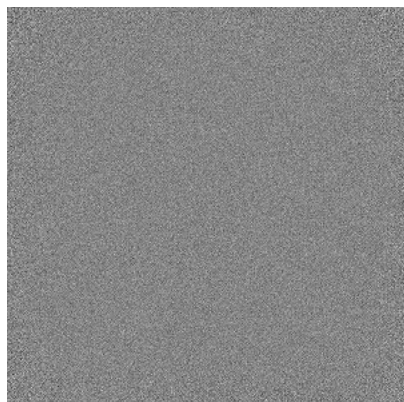


Y Index: 299

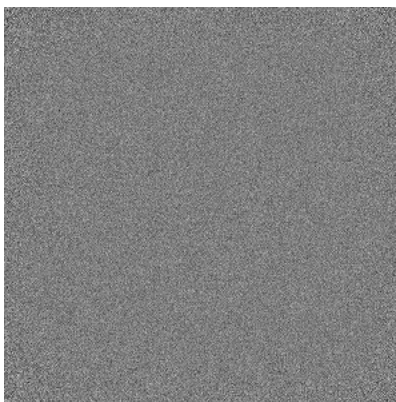


Z Index: 225

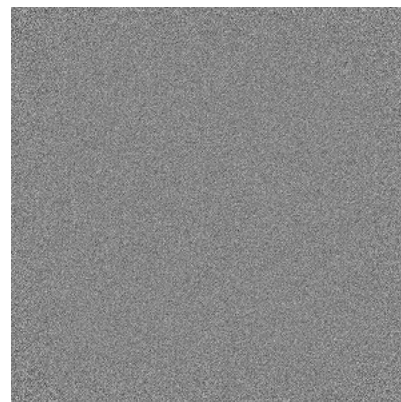
6.3.2 Raw map



X Index: 0



Y Index: 0

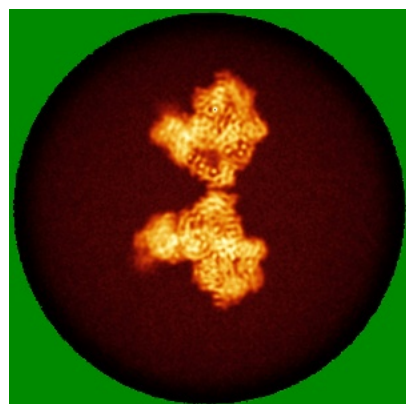


Z Index: 0

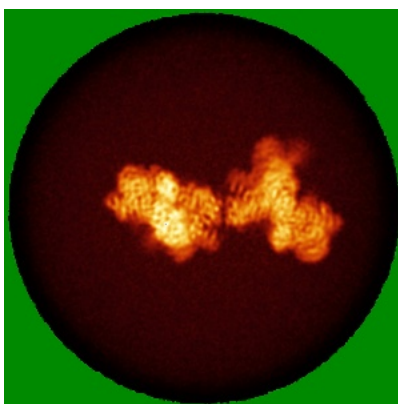
The images above show the largest variance slices of the map in three orthogonal directions.

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

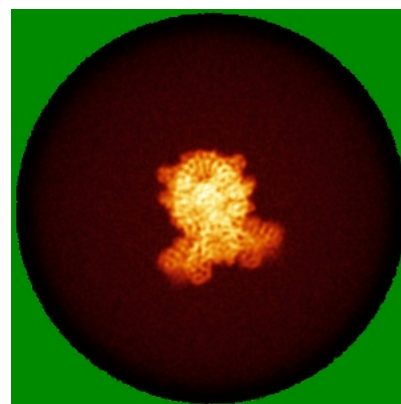
6.4.1 Primary map



X

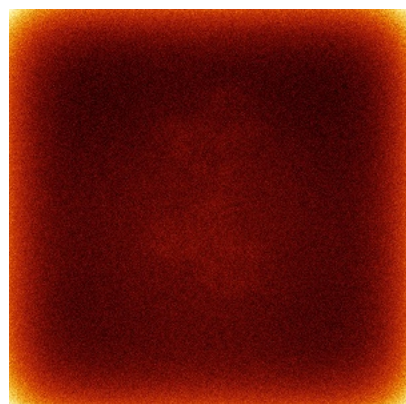


Y

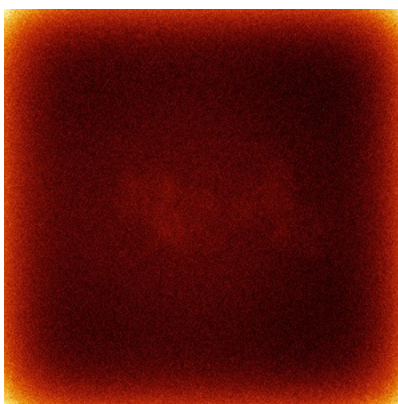


Z

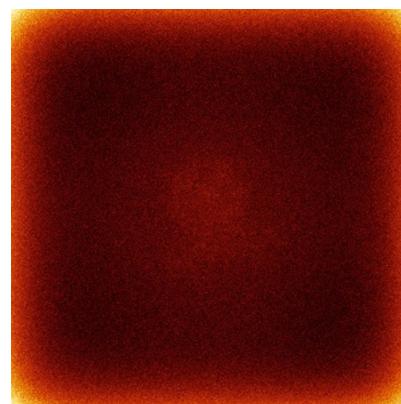
6.4.2 Raw map



X



Y



Z

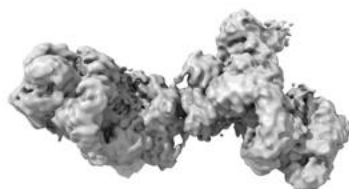
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

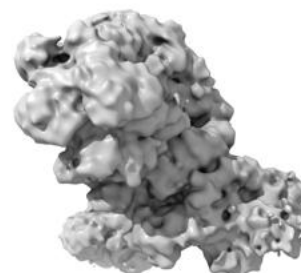
6.5.1 Primary map



X



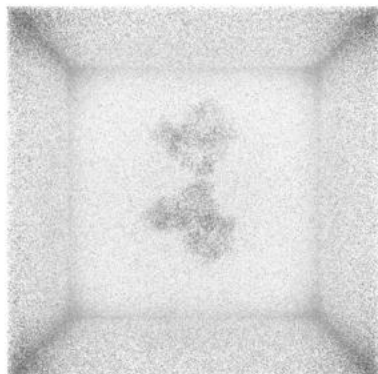
Y



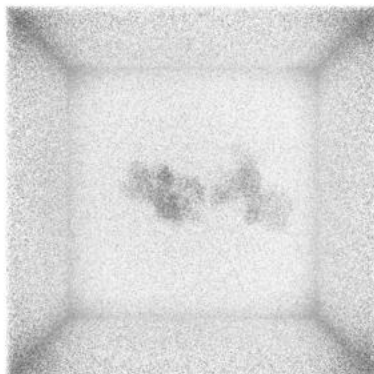
Z

The images above show the 3D surface view of the map at the recommended contour level 0.085. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

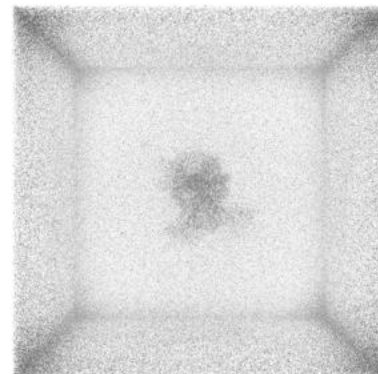
6.5.2 Raw map



X



Y



Z

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.

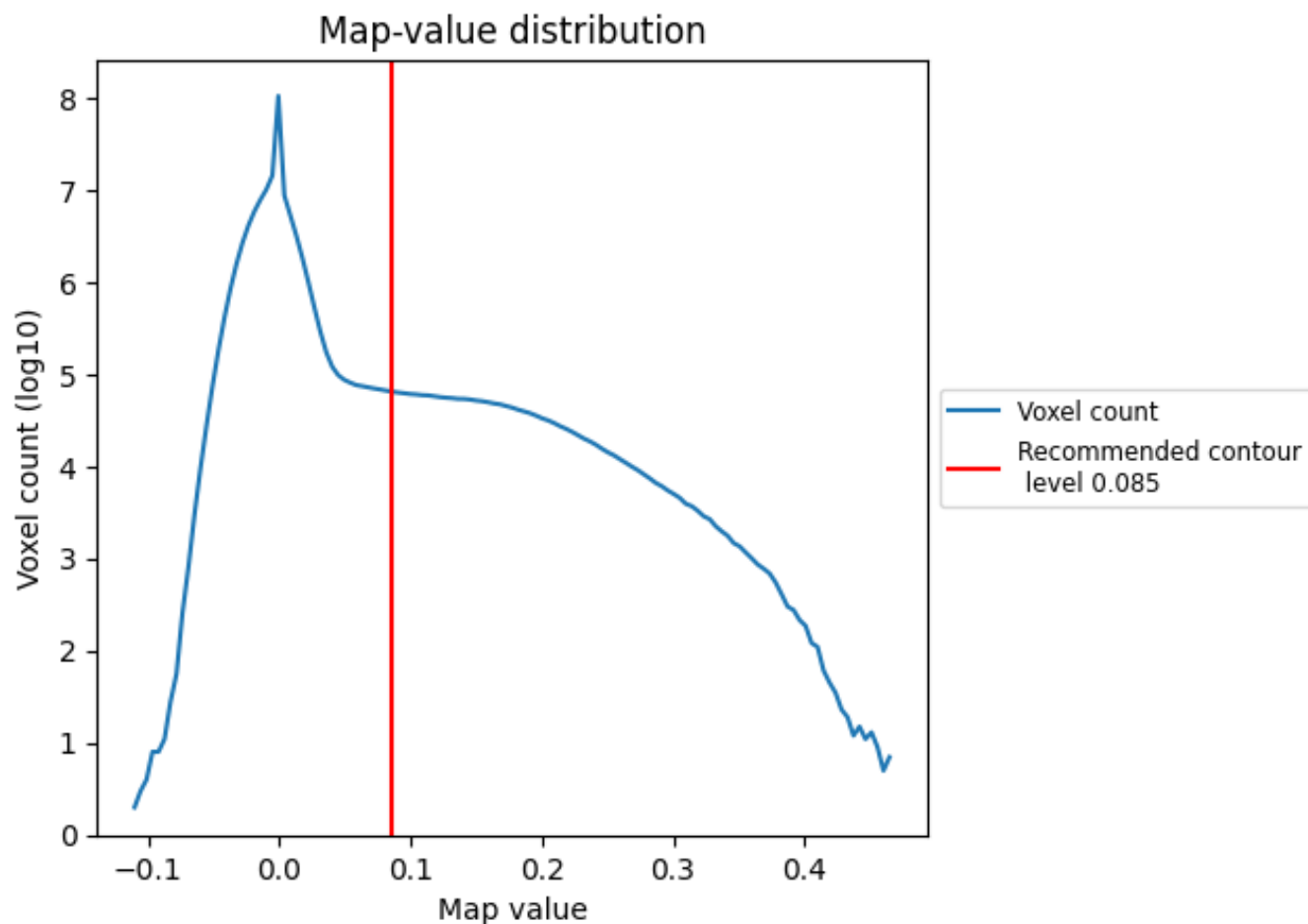
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

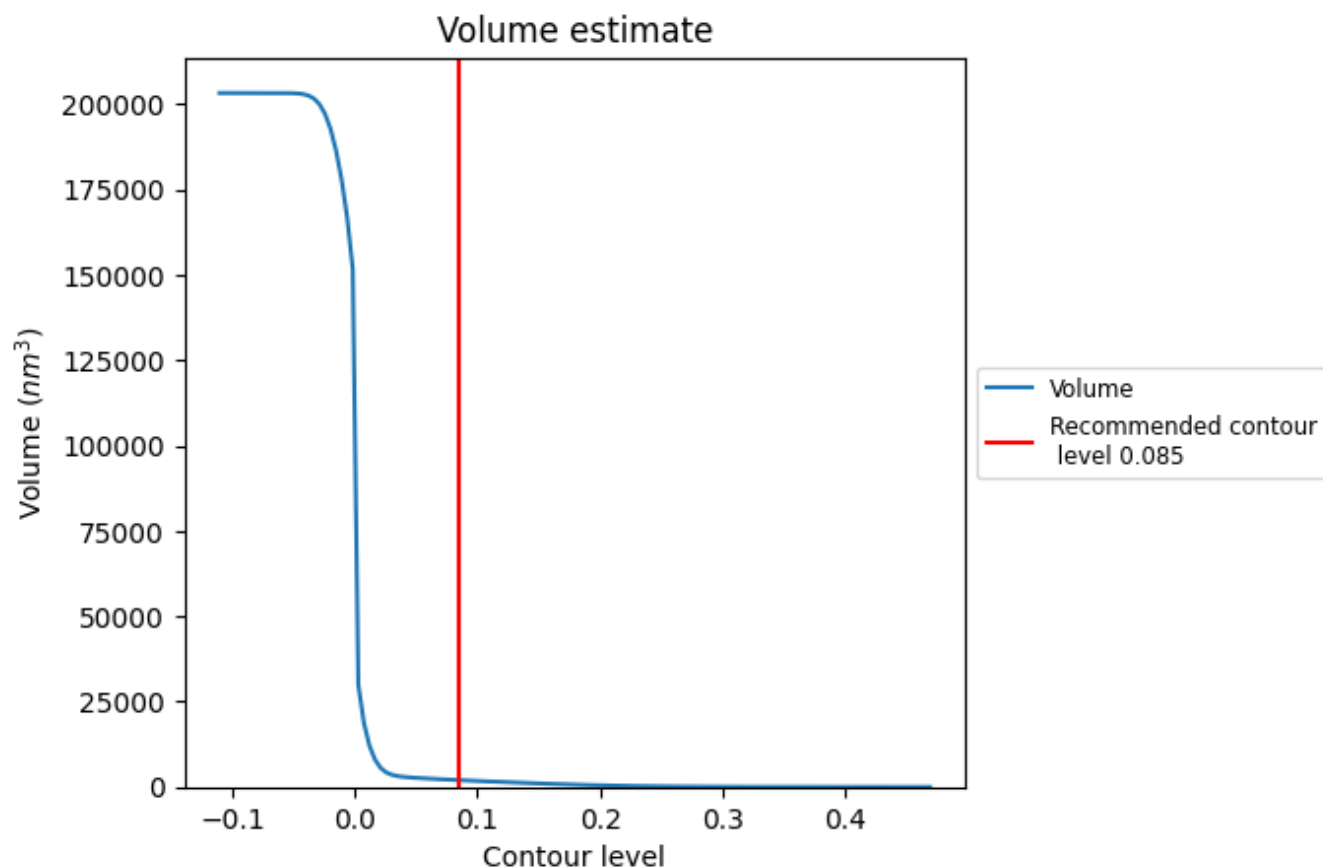
This section contains the results of statistical analysis of the map.

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.

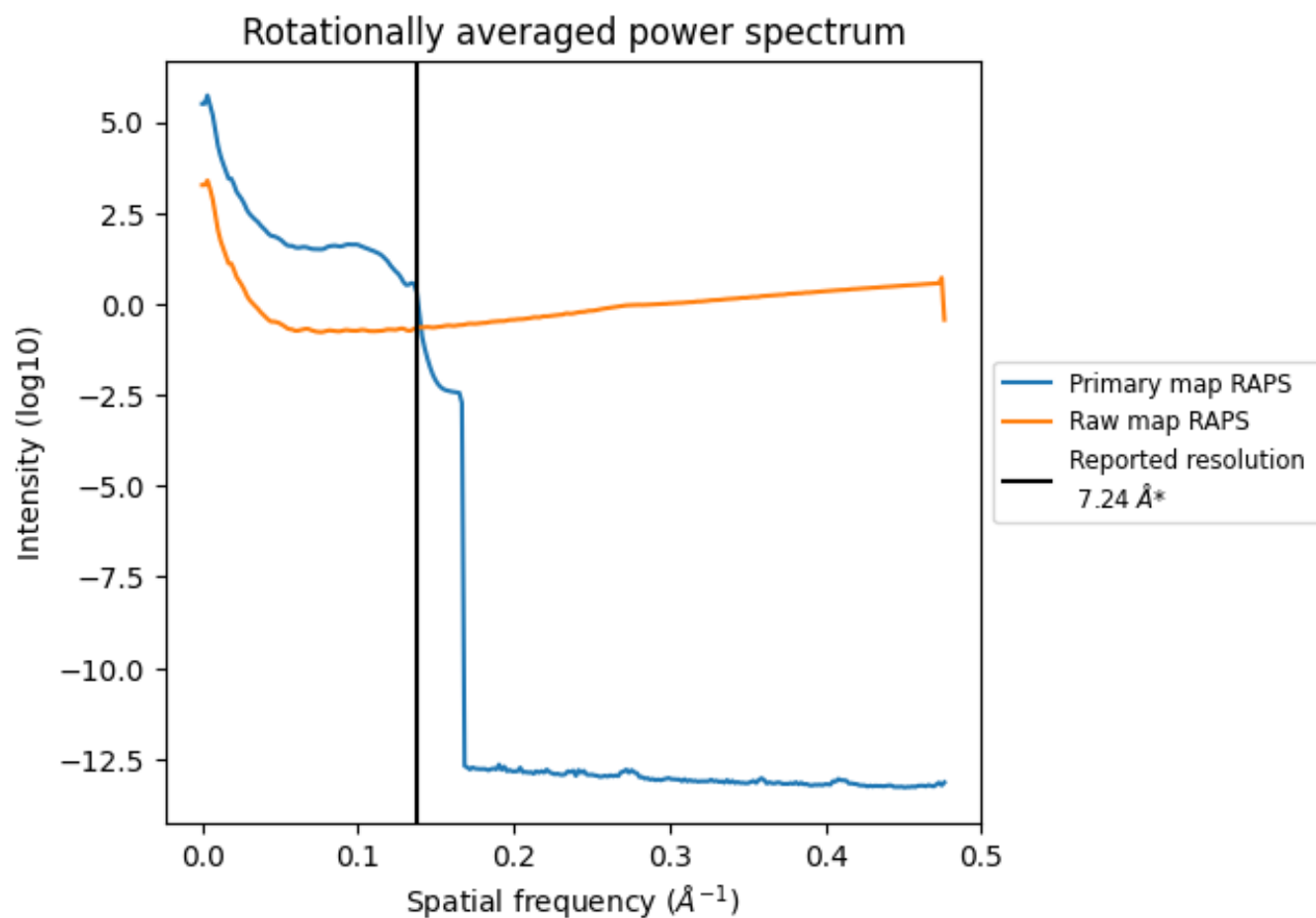
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1998 nm^3 ; this corresponds to an approximate mass of 1805 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 ⓘ

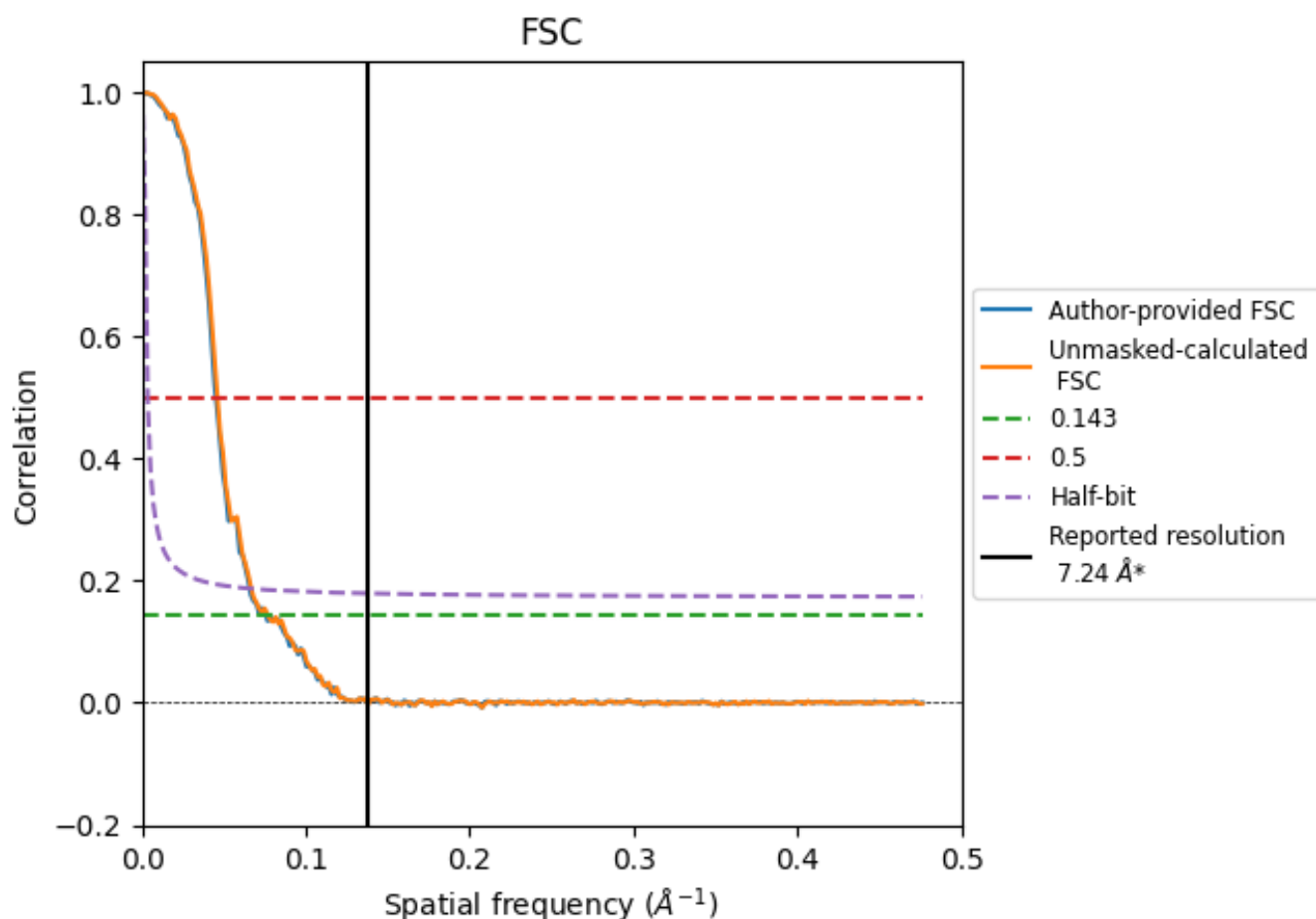


*Reported resolution corresponds to spatial frequency of 0.138 $\text{\AA}^{-1}$

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 0.138 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.24	-	-
Author-provided FSC curve	13.23	22.27	15.24
Unmasked-calculated*	13.02	21.74	14.99

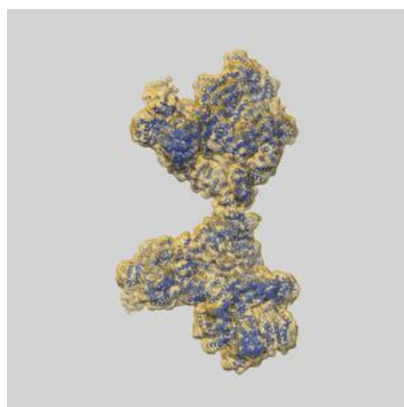
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 13.23 differs from the reported value 7.24 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 13.02 differs from the reported value 7.24 by more than 10 %

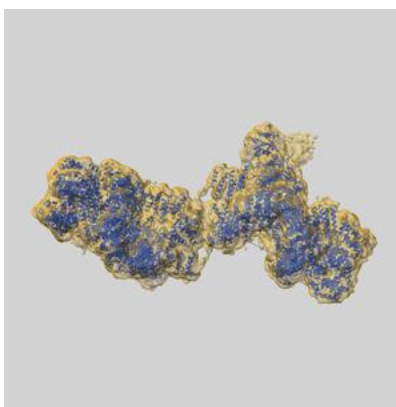
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-11219 and PDB model 6ZHE. Per-residue inclusion information can be found in section 3 on page 6.

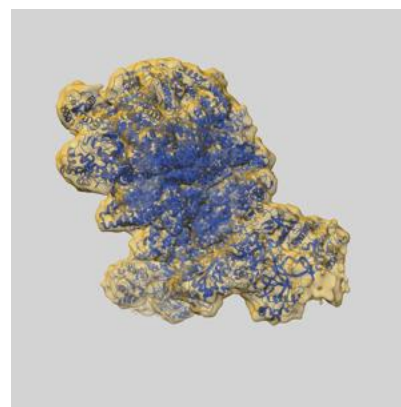
9.1 Map-model overlay [i](#)



X



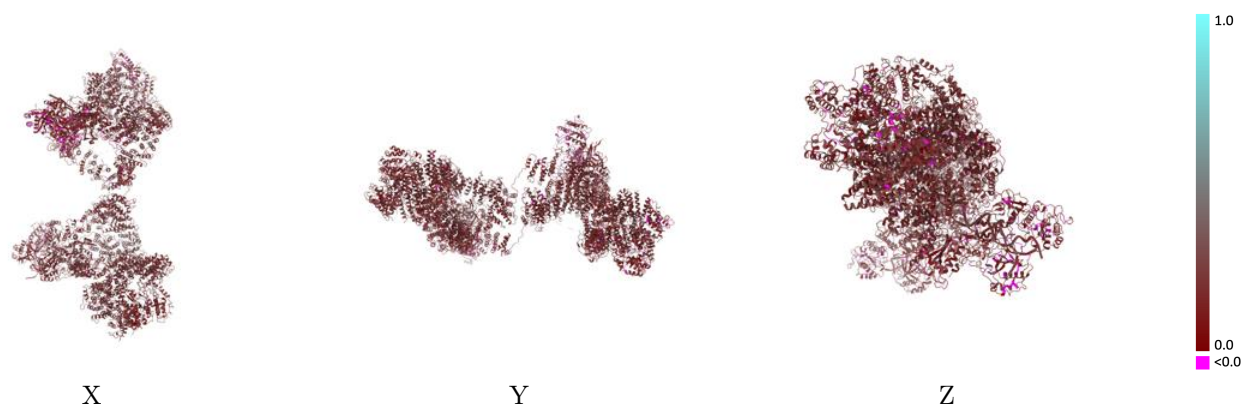
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.085 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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

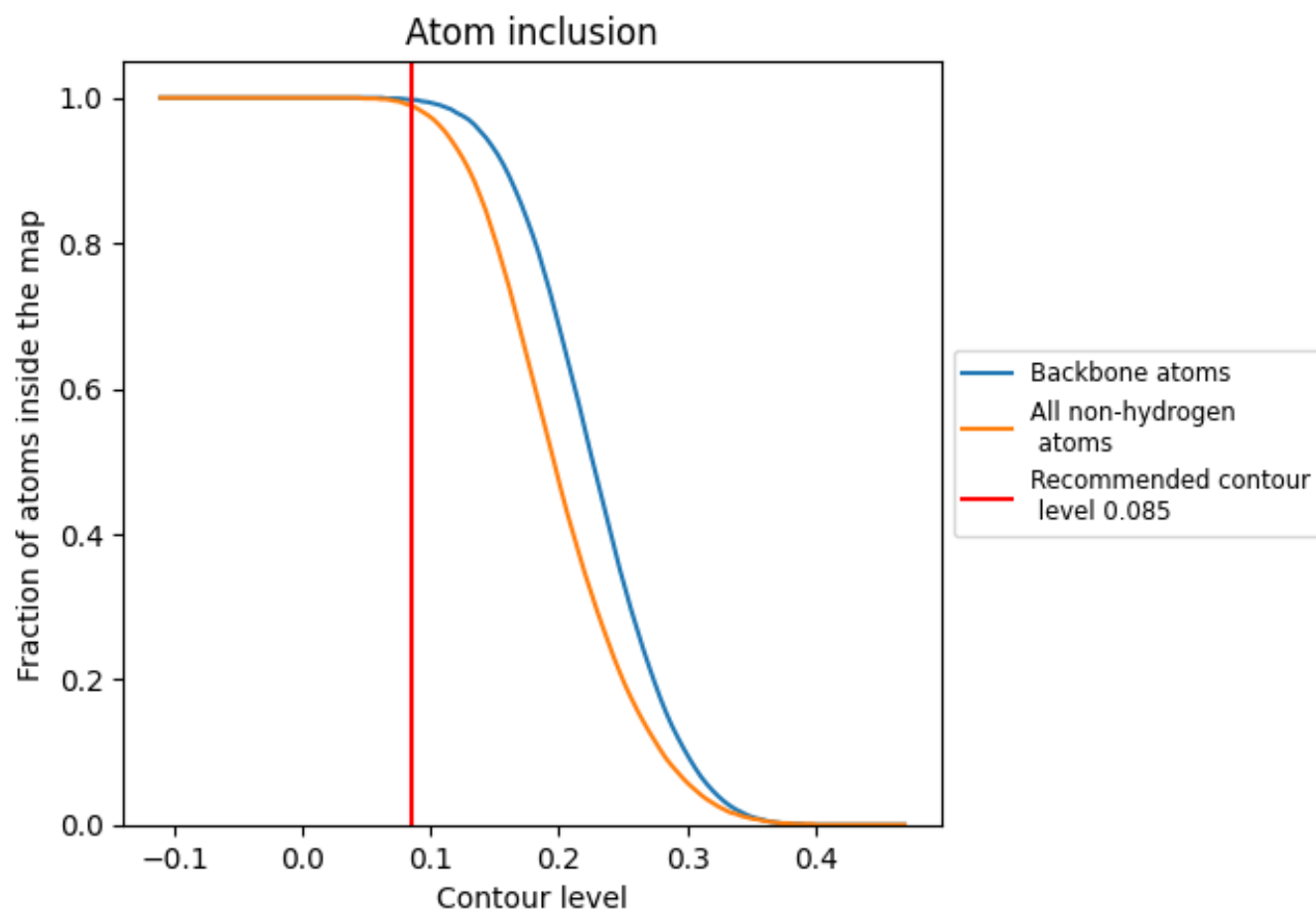


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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

This section was not generated.

9.4 Atom inclusion ⓘ



At the recommended contour level, 100% of all backbone atoms, 99% 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 (0.085) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9890	0.1950
A	0.9910	0.2070
B	0.9950	0.1870
C	0.9840	0.1740
D	1.0000	0.2510
E	1.0000	0.2500
F	0.9890	0.1970
G	0.9900	0.1600
H	0.9730	0.1600
I	1.0000	0.2540
J	1.0000	0.2430

1.0

0.0

<0.0