



Full wwPDB EM Validation Report ⓘ

Mar 19, 2024 – 02:54 PM JST

PDB ID : 5Y3R
EMDB ID : EMD-6803
Title : Cryo-EM structure of Human DNA-PK Holoenzyme
Authors : Yin, X.; Liu, M.; Tian, Y.; Wang, J.; Xu, Y.
Deposited on : 2017-07-29
Resolution : 6.60 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.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

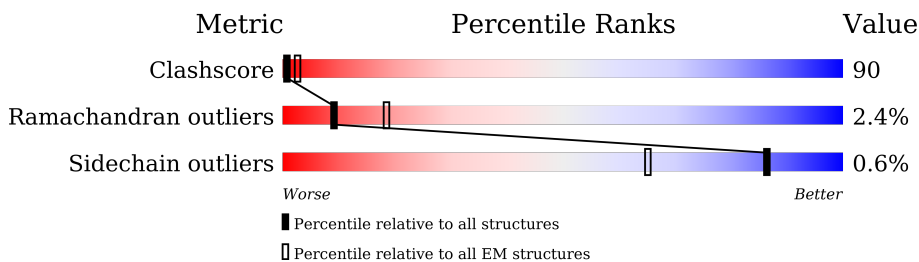
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	501	
2	B	536	
3	K	15	
4	D	34	
5	E	36	
6	C	4119	

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 38766 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 X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	493	3982	2550	675	739	18	0	0

- Molecule 2 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	526	4210	2696	707	784	23	0	0

- Molecule 3 is a protein called PRKDC-Helix.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
3	K	15	75	45	15	15	0	0

- Molecule 4 is a DNA chain called DNA (34-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
4	D	34	700	336	123	207	34	0	0

- Molecule 5 is a DNA chain called DNA (36-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
5	E	36	733	354	132	212	35	0	0

- Molecule 6 is a protein called DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	C	3636	29066	18608	4912	5356	190	0	0

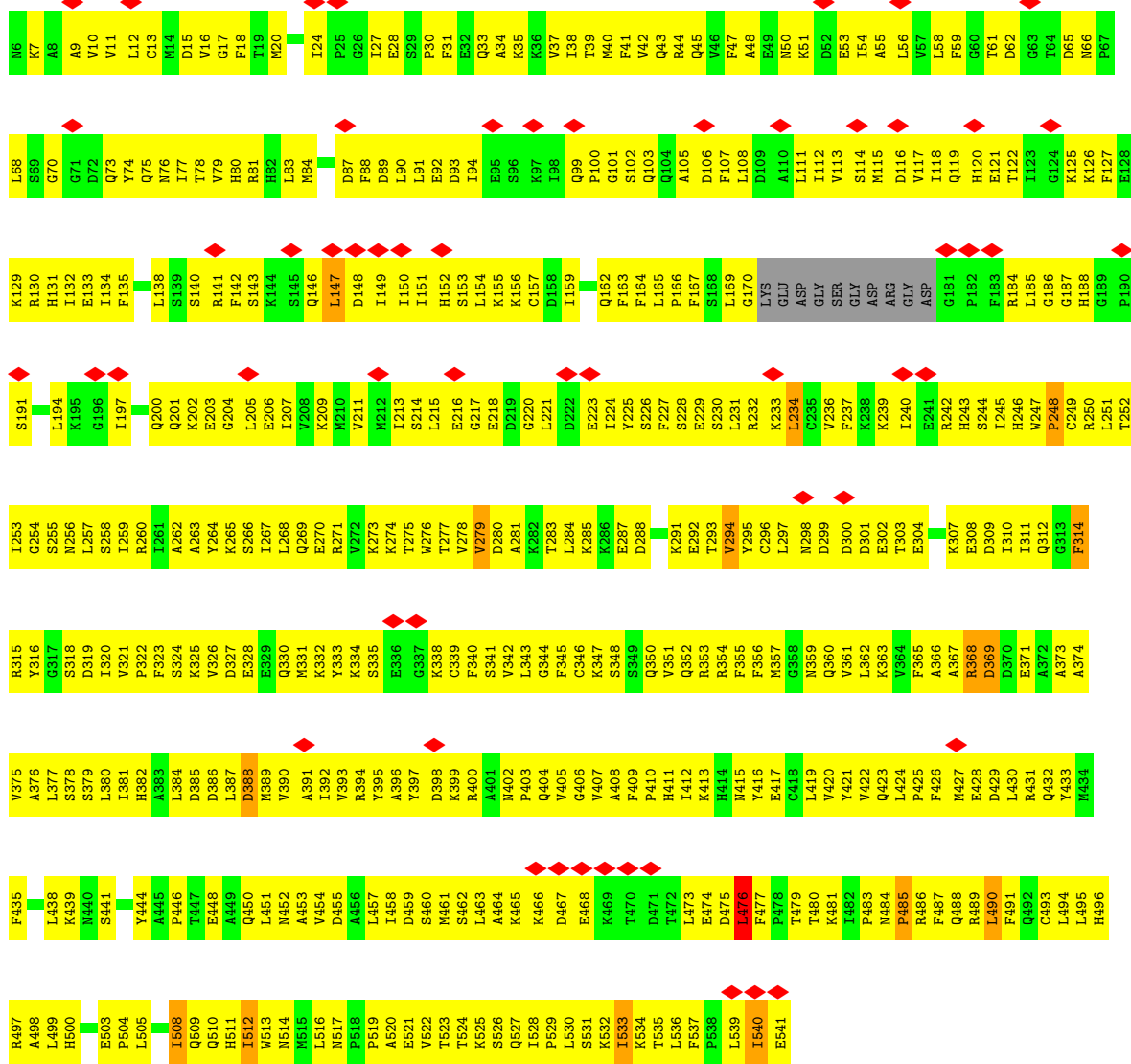
3 Residue-property plots

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.

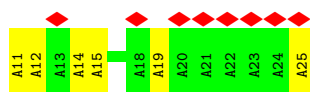
- Molecule 1: X-ray repair cross-complementing protein 6



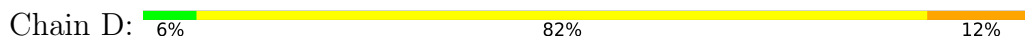
- Molecule 2: X-ray repair cross-complementing protein 5



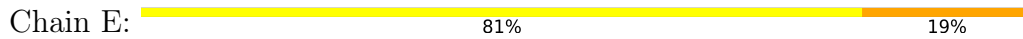
• Molecule 3: PRKDC-Helix



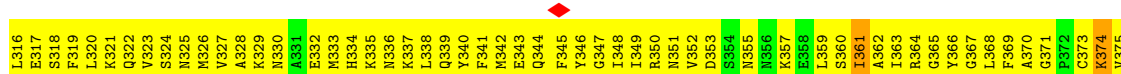
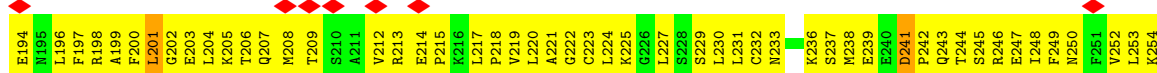
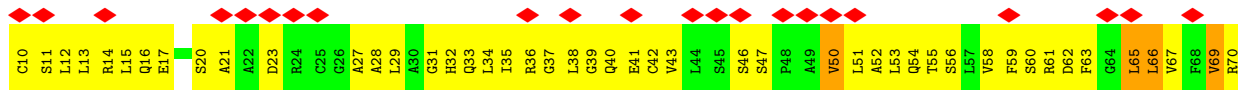
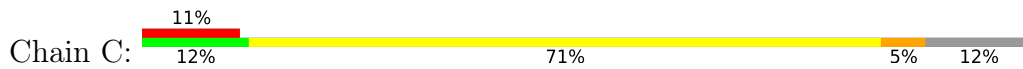
• Molecule 4: DNA (34-MER)



• Molecule 5: DNA (36-MER)



• Molecule 6: DNA-dependent protein kinase catalytic subunit



K1407	M1408	P1409	S1410	Y1411	K1412	D1413	L1414	L1415	E1416	H1417	L1418	L1419	R1420	E1421	K1422	L1423	T1424	A1425	Q1426	S1427	I1428	E1429	E1430	L1431	C1432	A1433	V1434	M1435	L1436	Y1437	G1438	F1439	D1440	A1441	Q1442	D1443	D1444	R1445	S1446	R1447	L1448	S1453	K1456	L1457	H1458	H1459	A1460	A1461	G1462	L1463	L1464	H1465	L1466	L1467	L1468	Q1471					
T1347	L1348	N1349	M1350	L1351	S1352	P1353	E1354	G1355	W1356	K1357	L1358	L1359	K1360	K1361	D1362	L1363	C1364	N1365	T1366	H1367	L1368	M1369	R1370	V1371	L1372	V1373	Q1374	T1375	L1376	C1377	E1378	P1379	A1380	S1381	I1382	F1383	F1384	N1385	L1386	G1387	D1388	V1389	Q1390	V1391	M1392	A1393	H1394	L1395	P1396	D1397	V1398	K1399	V1400	L1402	M1403	K1404	A1405	L1406			
E1285	A1286	Q1287	S1288	L1291	K1292	A1295	F1296	F1297	L1298	E1299	S1300	I1301	A1302	M1303	H1304	D1305	I1306	I1307	A1308	ALA	GLU	GLY	LYS	CYS	PHE	GLY	THR	ALA	ALA	GLY	ASN	ARG	THR	S1323	I1324	Q1325	E1326	E1327	E1328	I1329	Y1330	M1331	S1332	S1333	K1334	C1335	T1336	V1337	V1338	V1339	R1340	M1341	L1342	E1343	F1344	T1345	T1346				
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A1161	S1162	L1163	C1164	L1165	L1166	D1167	L1168	V1169	K1170	W1171	L1172	L1173	A1174	H1175	C1176	R1177	P1179	Q1180	THR	GLU	CYS	ARG	HIS	LYS	SER	ILE	GLU	LEU	PHE	TYP	LYS	PHE	VAL	PRO	LEU	LEU	LEU	PRO	GLY	GLY	ASN	ARG	PRO	ASN	LEU	TRP	LYS	ASP	VAL	K1213	E1214	E1215	G1216	V1217	S1218	F1219	L1220				
F1101	E1102	A1103	L1104	V1105	I1106	Y1107	M1108	E1109	S1110	L1111	A1112	L1113	A1114	H1115	A1116	D1117	K1118	K1119	S1120	L1121	G1122	T1123	I1124	Q1125	Q1126	C1127	D1128	A1129	I1131	D1132	H1133	L1134	C1135	R1136	I1137	I1138	E1139	K1140	K1141	H1142	V1143	L1144	L1145	N1146	K1147	A1148	K1149	R1150	R1151	R1152	L1153	L1154	A1155	G1156	F1157	P1158	L1159	S1160			
I1041	K1042	Q1043	L1044	T1045	P1046	Q1047	Q1048	E1049	E1050	K1051	S1052	P1053	V1054	M1055	T1056	S1058	L1059	F1060	K1061	L1062	L1063	Y1064	S1065	L1066	A1067	L1068	H1069	N1070	A1071	F1072	K1073	L1074	R1075	L1076	G1077	A1078	S1079	D1019	P1020	V1021	D1022	S1023	T1024	L1025	R1026	D1027	F1028	C1029	G1030	R1031	C1032	I1033	R1034	E1035	F1036	L1037	K1038	W1039	S1040		
R881	Q882	Y883	E884	P885	L886	M887	Q888	Q889	L890	L891	H892	W893	T894	P895	N896	N897	N898	K899	K1000	F1001	E1002	S1003	Q1004	D1005	T1006	V1007	A1008	L1009	L1010	E1011	A1012	L1013	L1014	D1015	G1016	I1017	V1018	D1019	P1020	D1022	S1023	T1024	L1025	R1026	D1027	F1028	C1029	G1030	R1031	C1032	I1033	R1034	E1035	F1036	L1037	K1038	W1039	S1040			
L859	G860	L861	L862	G863	G864	Q865	I866	N867	K868	N869	L870	A871	L872	E873	V874	S875	S876	D877	E878	M879	K880	A881	S882	Y883	Y884	G885	A886	W887	D888	R889	E890	G891	S892	K893	R894	A895	V896	P897	F898	S899	E900	M901	K902	P903	V904	I905	F906	L907	D908	N909	F910	L911	P912	R913	V914	E915	L916	A917	A918		
L819	T820	A821	S822	R823	R824	Q825	T826	K827	V828	A829	A830	L831	E832	L833	L834	H835	S836	M837	V838	N839	F840	M841	L842	G843	K844	A845	T846	Q847	P848	E849	G850	S851	G852	Q853	A854	A855	P856	P857	M858	Q859	L861	Y862	K863	R864	T865	F866	V867	L868	S869	L870	R871	L872	D873	A874	D875	Q876	R877	V878	T879	L880	
Y799	L800	K801	G802	S803	A804	L805	S806	D807	Y748	V749	E809	LYS	ASN	ASN	TRP	GLU	VAL	SER	ALA	LEU	ARG	ALA	ALA	GLN	LYS	GLY	PHE	ASN	VAL	VAL	LEU	LYS	HIS	L892	L893	L894	A895	V896	P897	F898	S899	E900	M901	K902	P903	V904	I905	F906	L907	D908	N909	F910	L911	P912	R913	V914	E915	L916	A917	A918	
N739	I740	I741	E742	L743	D744	V745	R746	A747	Y748	V749	P750	LEU	L751	L752	Q753	M754	A755	K756	L757	L758	G759	L760	S761	Y762	T763	P764	L765	A766	V767	E768	G769	L770	N771	L772	L773	E774	E775	V776	S777	I778	Y779	I780	D781	R782	H783	V784	M785	Q786	P787	Y788	K789	L790	E850	I851	I852	L793	P794	C795	L796	V797	Q798
K679	I680	K681	Y682	PHE	GLU	GLY	VAL	SER	PRO	LYS	SER	LEU	L751	L752	Q753	M754	A755	K756	L757	L758	G759	L760	S761	Y762	T763	P764	L765	A766	V767	E768	G769	L770	N771	L772	L773	E774	E775	V776	S777	I778	Y779	I780	D781	R782	H783	V784	M785	Q786	P787	Y788	K789	L790	E850	I851	I852	L793	P794	C795	L796	V797	Q798

L2140	L2141	L2142	R2143	R2144	F2145	L2146	A2147	K2148	L2149	V2150	L2151	N2152	T2153	E2154	L2155	F2156	R2157	L2158	P2159	Y2160	A2161	K2162	H2163	W2164	L2165	S2166	R2167	L2168	L2169	Q2170	L2171	A2172	L2173	S2174	E2175	N2176	L2177	G2178	G2179	E2180	G2181	L2182	H2183	Y2184	M2185	V2186	V2187	E2188	L2189	V2190	A2191	T2192	L2193	L2194	S2195	L2196	T2197	G2198	L2199		
A2200	T2201	F2202	P2203	G2204	V2205	P2206	K2207	D2208	L2209	V2210	L2211	A2212	N2213	R2214	L2215	L2216	N2217	R2218	L2219	L2220	K2221	H2222	F2223	H2224	H2225	P2226	R2227	R2228	A2229	V2230	F2231	R2232	H2233	N2234	L2235	E2236	I2237	L2238	K2239	L2240	V2242	E2243	C2244	K2245	K2246	C2248	L2249	S2250	L2251	P2252	R2253	R2254	L2255	L2256	F2257	E2258	K2259				
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L1472	L1475	H1476	H1477	S1478	V1479	G1480	T1481	L1482	L1483	L1484	S1485	L1486	K1489	G1490	I1491	A1492	P1493	G1494	D1495	L1496	R1497	Q1498	L1499	L1500	P1501	S1502	L1503	D1504	L1505	S1506	C1507	K1508	Q1509	L1510	A1511	G1512	S1513	L1514	L1515	E1516	L1517	A1518	F1519	A1520	G1521	G1522	G1523	L1524	C1525	E1526	ARG	LEU	VAL	SER	LEU	LEU	LEU				
ASN	ALA	VAL	LEU	SER	THR	ALA	SER	LEU	GLY	SER	SER	GLN	S1548	S1549	V1550	H1551	H1552	F1553	S1554	H1555	G1556	E1557	Y1558	L1559	Y1560	S1561	L1562	F1563	S1564	L1565	T1566	L1567	N1568	L1569	E1570	L1571	L1572	K1573	N1574	L1575	E1576	V1579	L1580	E1581	L1582	M1583	Q1584	S1585	S1586	V1587	K1591	M1592	V1593	S1594	A1595	V1596					

K3842	K3843	K3844	K3845	K3846	K3847	K3848	K3849	K3850	K3851	K3852	K3853	K3854	K3855	K3856	K3857	K3858	K3859	K3860	K3861	K3862	K3863	K3864	K3865	K3866	K3867	K3868	K3869	K3870	K3871	K3872	K3873	K3874	K3875	K3876	K3877	K3878	K3879	K3880	K3881	K3882	K3883	K3884	K3885	K3886	K3887	K3888	K3889	K3890	K3891	K3892	K3893	K3894	F3897	F3898	F3899	L3900	R3901	S3902	
S3782	Q3783	R3784	A3785	L3786	Q3787	L3788	R3789	L3790	L3791	S3792	L3793	L3794	P3795	L3796	L3797	S3798	R3799	L3800	G3801	L3802	L3803	E3804	R3805	L3806	E3807	N3808	L3809	L3810	L3811	L3812	L3813	D3814	L3815	L3816	L3817	L3818	L3819	M3820	Q3821	E3822	E3823	E3824	A3825	A3826	A3827	L3828	L3829	S3830	L3831	L3832	L3833	A3834	P3835	P3836	E3837	E3838	S3839	K3840	D3841
G3721	F3722	D3723	E3724	R3725	V3726	L3727	V3728	M3729	A3730	S3731	L3732	R3733	R3734	P3735	K3736	R3737	L3738	L3739	L3740	R3741	L3742	H3743	R3746	E3747	H3748	P3749	E3750	L3751	V3752	K3753	G3754	G3755	G3756	D3757	L3758	R3759	Q3760	D3761	Q3762	R3763	V3764	E3765	Q3766	Q3767	L3768	Q3769	V3770	M3771	N3772	G3773	L3774	L3775	A3776	Q3777	D3778	S3779	L3880	A3780	C3781
N3660	D3661	T3662	T3663	N3664	M3665	L3666	L3667	L3668	K3669	N3670	N3671	K3672	S3673	K3674	K3675	P3676	Q3677	G3678	N3679	L3680	G3681	D3682	C3683	S3684	P3685	W3686	K3687	S3688	D3689	F3690	K3691	V3692	E3693	F3694	L3695	L3696	N3697	L3698	L3699	E3700	I3701	P3702	G3703	Q3704	L3705	D3706	G3707	R3708	G3709	K3710	P3711	E3714	L3715	H3716	V3717	K3718	L3719	A3720	
K3598	T3599	P3600	V3601	N3602	K3603	K3604	N3605	L3606	E3607	K3608	M3609	V3610	E3611	R3612	M3613	Y3614	A3615	A3616	L3617	G3618	P3619	K3620	A3622	P3623	G3624	L3625	G3626	A3627	F3628	R3629	E3630	E3631	L3632	Q3633	Q3634	T3635	F3636	G3637	K3638	E3639	F3640	D3641	K3642	H3643	F3644	G3645	S3649	K3650	L3651	L3652	A3654	R3653	M3654	L3656	L3657	D3658	F3659		
E3477	E3478	T3479	L3480	S3481	L3482	M3483	T3484	K3485	E3486	I3487	S3488	S3489	P3491	C3492	W3493	Q3494	F3495	I3496	S3497	W3498	I3499	S3500	H3501	M3502	L3503	D3504	A3505	L3506	D3507	K3508	L3509	D3510	E3511	A3512	A3513	V3514	H3515	S3517	N3518	E3519	E3520	I3521	T3522	D3523	N3524	Y3525	P3526	Q3527	A3528	I3529	V3530	Y3531	E3532	F3533	L3534	L3535	S3536		
L3416	A3417	F3418	F3419	C3420	D3421	Q3422	Q3423	L3424	K3425	K3426	E3427	E3428	A3431	S3432	V3433	I3434	D3435	S3436	E3438	L3439	Q3440	A3441	P3442	P3443	A3444	L3445	V3446	V3447	E3448	K3449	H3450	L3451	K3452	L3454	K3455	L3456	N3457	S3458	N3459	E3460	A3461	R3462	L3463	K3464	F3465	P3466	R3467	L3468	L3469	Q3470	L3471	L3472	E3473	K3474	Y3475	P3476			
E3355	A3356	R3357	R3358	L3359	LEU	LEU	LEU	GLY	SER	SER	SER	SER	ASP	ASP	GLY	GLY	LYS	V3373	I3374	A3375	G3376	Y3378	Q3379	R3380	A3381	F3382	Q3383	H3384	L3385	S3386	E3387	A3388	V3389	Q3390	A3391	A3392	E3393	E3394	E3395	R3396	Q3397	P3398	P3399	S3400	W3401	S3402	C3403	G3404	P3405	G3408	I3410	D3411	A3412	Y3413	M3414	T3415			
S3294	E3295	Q3296	V3297	L3298	T3299	V3300	L3301	K3302	L3303	V3304	S3305	L3306	L3307	D3308	E3309	N3310	N3311	V3312	S3313	S3314	Y3315	L3316	S3317	K3318	L3319	L3320	L3321	A3322	F3323	R3324	D3325	Q3326	R3327	L3328	L3329	L3330	G3331	T3332	T3333	Y3334	R3335	L3336	I3337	A3338	N3339	C3281	R3282	L3283	S3284	H3285	C3286	R3287	S3288	S3289	S3290	Q3291	G3292	C3293	
K3172	M3173	D3174	P3175	M3176	N3177	L3178	W3179	D3180	D3181	I3182	I3183	T3184	N3185	R3186	K3249	N3250	M3251	F3252	S3253	L3254	A3255	M3256	K3257	L3258	L3259	K3260	E3261	L3262	H3263	K3264	E3265	S3266	R3267	T3268	R3269	D3270	K3271	W3272	L3273	V3274	S3275	W3276	V3277	Q3278	S3279	Y3280	C3281	R3282	L3283	S3284	H3285	C3286	R3287	S3288	S3289	S3290	Q3291	G3292	C3293
F3189	L3190	S3191	K3192	L3193	E3194	E3195	K3196	L3197	T3198	P3199	LEU	PRO	GLU	ASP	ASN	ASN	ASP	MET	ASN	ASN	VAL	VAL	ASP	GLN	ASP	GLY	L3150	L3151	P3152	S3153	Q3154	V3155	P3156	R3159	L3160	L3161	L3162	T3163	K3164	T3165	R3166	R3167	Y3168	P3169															

H3903	H3904	A3905	S3906	S3907	H3908	A3909	L3910	C3911	C3912	L3913	S3914	H3915	W3916	L3917	L3918	C3919	L3920	G3921	D3922	R3923	H3924	L3925	N3926	N3927	F3928	R3929	V3930	A3931	R3932	E3933	T3934	G3935	G3936	V3937	I3938	G3939	I3940	D3941	F3942	G3943	H3944	G3947	S3948	A3949	T3950	C3951	F3952	V3955	F3956	E3957	L3958	H3959	F3960	F3961	R3962	L3963	T3964	
R3965	Q3966	F3967	I3968	N3969	L3970	M3971	L3972	P3973	M3974	K3975	E3976	T3977	G3978	L3979	M3980	Y3981	S3982	I3983	M3984	V3985	H3986	A3987	L3988	R3989	A3990	F3991	R3992	S3993	D3994	L3997	L3998	T3999	N4000	T4001	M4002	D4003	V4004	F4005	V4006	K4007	E4008	P4009	S4010	F4011	D4012	W4013	K4014	N4015	F4016	E4017	Q4018	K4019	M4020	L4021	K4022	K4023	G4024	
W4027	I4028	Q4029	E4030	I4031	M4032	V4033	A4034	E4035	G4036	M4037	W4038	Y4039	P4040	R4041	Q4042	R4043	I4044	C4045	Y4046	A4047	K4048	R4049	K4050	A4052	G4053	A4054	M4055	P4056	A4057	V4058	I4059	T4060	C4061	D4062	E4063	L4064	L4065	L4066	G4067	H4068	E4069	K4070	A4071	P4072	A4073	F4074	R4075	D4076	Y4077	V4078	A4079	V4080	A4081	R4082	G4083	S4084	K4085	P4086
H4087	N4088	I4089	R4090	A4091	Q4092	E4093	P4094	E4095	S4096	G4097	L4098	S4099	E4100	E4101	T4102	Q4103	V4104	K4105	C4106	L4107	M4108	D4109	Q4110	A4111	T4112	D4113	P4114	M4115	I4116	L4117	G4118	R4119	T4120	W4121	E4122	G4123	H4124	E4125	P4126	W4127	M4128																	

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	53451	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1700	Depositor
Maximum defocus (nm)	4700	Depositor
Magnification	18000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.139	Depositor
Minimum map value	-0.053	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.03	Depositor
Map size (\AA)	390.0, 390.0, 390.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.3, 1.3, 1.3	Depositor

5 Model quality i

5.1 Standard geometry i

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	0.51	0/4060	0.75	3/5468 (0.1%)
2	B	0.45	0/4297	0.69	4/5798 (0.1%)
3	K	0.28	0/74	0.36	0/102
4	D	1.44	1/784 (0.1%)	1.23	5/1209 (0.4%)
5	E	1.38	2/822 (0.2%)	1.23	8/1266 (0.6%)
6	C	0.54	1/29665 (0.0%)	0.77	41/40094 (0.1%)
All	All	0.59	4/39702 (0.0%)	0.78	61/53937 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	12
2	B	0	8
6	C	0	89
All	All	0	109

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	2	DG	C3'-O3'	-5.56	1.36	1.44
5	E	36	DA	N9-C4	-5.48	1.34	1.37
6	C	2245	TRP	CB-CG	-5.41	1.40	1.50
5	E	39	DA	C3'-O3'	-5.16	1.37	1.44

All (61) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	2323	LEU	CA-CB-CG	-9.10	94.38	115.30
6	C	734	LEU	CA-CB-CG	-8.80	95.05	115.30
5	E	44	DA	O4'-C4'-C3'	-8.59	100.85	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	1257	LEU	CA-CB-CG	-8.10	96.68	115.30
6	C	2884	LEU	CA-CB-CG	-7.98	96.96	115.30
6	C	1025	LEU	CA-CB-CG	-7.94	97.03	115.30
6	C	1165	LEU	CA-CB-CG	7.79	133.22	115.30
4	D	2	DG	O4'-C4'-C3'	-7.72	101.37	106.00
5	E	39	DA	O4'-C4'-C3'	-7.40	101.54	104.50
6	C	2427	ARG	NE-CZ-NH2	-7.08	116.76	120.30
6	C	3125	ARG	NE-CZ-NH2	-7.03	116.79	120.30
6	C	2557	LEU	CA-CB-CG	-6.62	100.07	115.30
6	C	2276	LEU	CA-CB-CG	-6.54	100.25	115.30
6	C	313	LEU	CA-CB-CG	-6.47	100.41	115.30
6	C	2939	LEU	CA-CB-CG	-6.46	100.43	115.30
2	B	476	LEU	CA-CB-CG	-6.45	100.47	115.30
6	C	1259	LEU	CA-CB-CG	6.42	130.06	115.30
6	C	3463	LEU	CA-CB-CG	-6.38	100.64	115.30
6	C	634	LEU	CA-CB-CG	6.30	129.79	115.30
1	A	153	LEU	CA-CB-CG	-6.29	100.83	115.30
4	D	5	DT	O4'-C4'-C3'	-6.25	102.00	104.50
6	C	659	ARG	NE-CZ-NH2	6.23	123.42	120.30
5	E	17	DA	O4'-C1'-N9	6.12	112.28	108.00
6	C	66	LEU	CA-CB-CG	-6.05	101.39	115.30
2	B	388	ASP	CB-CG-OD1	5.99	123.69	118.30
6	C	421	LEU	CA-CB-CG	-5.99	101.53	115.30
6	C	3786	LEU	CA-CB-CG	-5.94	101.65	115.30
6	C	2396	LEU	CA-CB-CG	-5.93	101.66	115.30
6	C	2542	LEU	CA-CB-CG	5.82	128.69	115.30
2	B	147	LEU	CA-CB-CG	5.80	128.63	115.30
6	C	907	LEU	CA-CB-CG	-5.77	102.03	115.30
6	C	3129	LEU	CA-CB-CG	-5.77	102.03	115.30
6	C	4051	LEU	CA-CB-CG	5.67	128.33	115.30
5	E	35	DC	OP1-P-O3'	5.66	117.66	105.20
6	C	1858	LEU	CA-CB-CG	-5.63	102.36	115.30
6	C	461	ILE	CG1-CB-CG2	-5.62	99.04	111.40
6	C	2144	LEU	CA-CB-CG	-5.57	102.49	115.30
6	C	917	LEU	CA-CB-CG	-5.50	102.64	115.30
6	C	1080	LEU	CA-CB-CG	5.43	127.78	115.30
6	C	2156	VAL	CG1-CB-CG2	-5.42	102.23	110.90
6	C	65	LEU	CB-CG-CD1	-5.41	101.80	111.00
6	C	2563	LEU	CA-CB-CG	-5.37	102.95	115.30
2	B	490	LEU	CA-CB-CG	-5.33	103.04	115.30
5	E	17	DA	C1'-O4'-C4'	-5.33	104.77	110.10
4	D	-10	DA	O4'-C4'-C3'	-5.30	102.38	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	40	DT	O4'-C4'-C3'	-5.28	102.39	104.50
6	C	162	LEU	CA-CB-CG	5.25	127.37	115.30
6	C	659	ARG	NE-CZ-NH1	-5.22	117.69	120.30
6	C	201	LEU	CA-CB-CG	-5.21	103.31	115.30
5	E	37	DT	O4'-C4'-C3'	-5.19	102.42	104.50
6	C	1173	LEU	CA-CB-CG	-5.19	103.37	115.30
1	A	385	LEU	CA-CB-CG	5.16	127.17	115.30
1	A	205	LEU	CA-CB-CG	5.14	127.12	115.30
6	C	2545	LEU	CA-CB-CG	-5.14	103.48	115.30
4	D	6	DT	C5-C4-O4	-5.14	121.31	124.90
6	C	1063	LEU	CA-CB-CG	-5.14	103.48	115.30
6	C	2921	LEU	CA-CB-CG	5.14	127.11	115.30
4	D	6	DT	N3-C4-O4	5.12	122.97	119.90
6	C	1939	LEU	CA-CB-CG	-5.08	103.61	115.30
5	E	36	DA	C3'-C2'-C1'	-5.06	96.43	102.50
6	C	2441	LYS	CA-CB-CG	-5.04	102.31	113.40

There are no chirality outliers.

All (109) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	102	ILE	Peptide
1	A	109	ASP	Peptide
1	A	206	LYS	Peptide
1	A	268	VAL	Peptide
1	A	278	GLN	Peptide
1	A	282	LYS	Peptide
1	A	35	ARG	Peptide
1	A	359	HIS	Peptide
1	A	364	PRO	Peptide
1	A	365	SER	Peptide
1	A	406	ILE	Peptide
1	A	504	VAL	Peptide
2	B	234	LEU	Peptide
2	B	248	PRO	Peptide
2	B	314	PHE	Peptide
2	B	367	ALA	Peptide
2	B	369	ASP	Peptide
2	B	476	LEU	Peptide
2	B	485	PRO	Peptide
2	B	508	ILE	Peptide
6	C	1013	ILE	Peptide

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Mol	Chain	Res	Type	Group
6	C	1043	GLN	Peptide
6	C	1051	LYS	Peptide
6	C	1092	GLU	Peptide
6	C	1134	LEU	Peptide
6	C	1172	LEU	Peptide
6	C	1250	LEU	Peptide
6	C	1256	TRP	Peptide
6	C	1273	GLU	Peptide
6	C	1374	GLN	Peptide
6	C	143	LEU	Peptide
6	C	156	PHE	Peptide
6	C	1561	SER	Peptide
6	C	1736	PHE	Peptide
6	C	1762	MET	Peptide
6	C	1810	PRO	Peptide
6	C	187	SER	Peptide
6	C	1874	TYR	Peptide
6	C	1926	ASN	Peptide
6	C	2002	LYS	Peptide
6	C	2008	ARG	Peptide
6	C	2029	SER	Peptide
6	C	2056	SER	Peptide
6	C	2137	ILE	Peptide
6	C	2152	ASN	Peptide
6	C	2153	THR	Peptide
6	C	2167	PRO	Peptide
6	C	2205	VAL	Peptide
6	C	2231	PHE	Peptide
6	C	2245	TRP	Peptide
6	C	2283	ASN	Peptide
6	C	2308	SER	Peptide
6	C	2313	LYS	Peptide
6	C	2357	GLU	Peptide
6	C	2371	PHE	Peptide
6	C	2372	PRO	Peptide
6	C	2375	ALA	Peptide
6	C	2392	VAL	Peptide
6	C	2412	TYR	Peptide
6	C	2423	VAL	Peptide
6	C	2427	ARG	Peptide
6	C	2429	ASP	Peptide
6	C	260	ILE	Peptide

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Mol	Chain	Res	Type	Group
6	C	2884	LEU	Peptide
6	C	2936	TYR	Peptide
6	C	2939	LEU	Peptide
6	C	3031	TRP	Peptide
6	C	3036	TYR	Peptide
6	C	3083	SER	Peptide
6	C	3161	LEU	Peptide
6	C	3313	SER	Peptide
6	C	3314	SER	Peptide
6	C	3336	ILE	Peptide
6	C	3338	ALA	Peptide
6	C	3528	ALA	Peptide
6	C	3679	ASN	Peptide
6	C	3681	LYS	Peptide
6	C	3689	ASP	Peptide
6	C	3710	LYS	Peptide
6	C	374	LYS	Peptide
6	C	3875	GLU	Peptide
6	C	3924	HIS	Peptide
6	C	3971	MET	Peptide
6	C	3972	LEU	Peptide
6	C	4008	GLU	Peptide
6	C	4009	PRO	Peptide
6	C	4039	TYR	Peptide
6	C	406	ARG	Peptide
6	C	4082	ARG	Peptide
6	C	442	GLN	Peptide
6	C	474	VAL	Peptide
6	C	538	ASP	Peptide
6	C	567	GLU	Peptide
6	C	634	LEU	Peptide
6	C	638	GLN	Peptide
6	C	643	GLU	Peptide
6	C	649	PHE	Peptide
6	C	655	LEU	Peptide
6	C	657	SER	Peptide
6	C	669	LEU	Peptide
6	C	708	VAL	Peptide
6	C	710	PHE	Peptide
6	C	787	PRO	Peptide
6	C	805	LEU	Peptide
6	C	867	ASN	Peptide

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Mol	Chain	Res	Type	Group
6	C	899	ARG	Peptide
6	C	919	LEU	Peptide
6	C	949	PRO	Peptide
6	C	955	ALA	Peptide

5.2 Too-close contacts [i](#)

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	3982	0	4064	899	0
2	B	4210	0	4250	708	0
3	K	75	0	74	5	0
4	D	700	0	388	182	0
5	E	733	0	410	214	0
6	C	29066	0	29396	5262	0
All	All	38766	0	38582	6927	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 90.

All (6927) 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)
6:C:3809:THR:HA	6:C:3930:VAL:O	1.25	1.32
6:C:3740:ILE:HB	6:C:3748:HIS:O	1.38	1.22
1:A:378:SER:O	1:A:382:PHE:HB3	1.39	1.21
6:C:700:LYS:N	6:C:703:CYS:HG	1.35	1.21
2:B:264:TYR:HB2	2:B:363:LYS:O	1.43	1.19
6:C:2397:CYS:O	6:C:2401:VAL:HB	1.43	1.18
6:C:1549:SER:O	6:C:1553:PHE:HB2	1.45	1.17
6:C:221:ALA:O	6:C:225:LYS:HB2	1.46	1.16
6:C:1921:ASP:O	6:C:1925:GLU:HB2	1.44	1.16
6:C:3144:PHE:O	6:C:3148:GLN:HB3	1.45	1.15
6:C:572:VAL:O	6:C:576:VAL:HB	1.44	1.15
6:C:738:HIS:HA	6:C:741:ILE:HG12	1.26	1.14
6:C:2442:MET:HB3	6:C:2445:LYS:HB2	1.23	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2538:ARG:O	6:C:2542:LEU:HB2	1.44	1.13
1:A:274:TYR:HB2	1:A:367:PHE:O	1.48	1.13
2:B:362:LEU:O	2:B:420:VAL:HA	1.47	1.12
6:C:3881:ASP:O	6:C:3885:ARG:HB2	1.49	1.10
6:C:3068:ALA:O	6:C:3072:GLU:HB2	1.51	1.10
6:C:1986:ARG:O	6:C:1990:PHE:HB2	1.50	1.10
1:A:112:GLY:HA2	2:B:319:ASP:HB3	1.35	1.09
6:C:3571:PHE:O	6:C:3575:LEU:HB2	1.50	1.09
6:C:2962:ARG:HA	6:C:3003:ASN:HD21	1.09	1.08
6:C:2931:ARG:O	6:C:2935:GLU:HB3	1.52	1.07
6:C:2045:PHE:O	6:C:2049:VAL:HB	1.55	1.06
4:D:9:DG:N2	5:E:27:DC:O2	1.89	1.06
6:C:3883:LEU:O	6:C:3887:PHE:HB2	1.56	1.06
1:A:350:PHE:HA	1:A:395:ALA:O	1.53	1.06
4:D:11:DC:O2	5:E:25:DG:N2	1.90	1.05
6:C:1107:TYR:O	6:C:1111:LEU:HB2	1.55	1.05
6:C:4047:ALA:O	6:C:4051:LEU:HB2	1.56	1.05
4:D:9:DG:N1	5:E:27:DC:C2	2.24	1.05
6:C:867:ASN:HB2	6:C:868:LYS:HG3	1.39	1.05
6:C:1340:ARG:HA	6:C:1343:GLU:HG2	1.38	1.05
6:C:1070:PRO:HG2	6:C:1072:ALA:HB2	1.38	1.05
6:C:2888:VAL:O	6:C:2891:ARG:HB3	1.55	1.05
4:D:1:DG:N1	5:E:35:DC:N3	2.05	1.04
6:C:17:GLU:HG2	6:C:65:LEU:HD11	1.36	1.04
6:C:1640:GLU:O	6:C:1644:ALA:HB2	1.54	1.04
6:C:2382:VAL:HA	6:C:2385:LEU:HB2	1.36	1.04
6:C:1938:ARG:HD2	6:C:1986:ARG:HB3	1.39	1.04
6:C:2912:GLY:O	6:C:2916:LEU:HB3	1.59	1.03
6:C:3319:ASN:HB2	6:C:3399:PRO:HB2	1.40	1.03
6:C:2427:ARG:HH22	6:C:2433:LYS:HA	1.21	1.01
6:C:3631:LYS:HG2	6:C:3686:TRP:HB2	1.39	1.01
6:C:1260:LEU:O	6:C:1264:LEU:HB3	1.61	1.00
6:C:2452:ARG:HH22	6:C:2497:GLU:HB2	1.21	1.00
6:C:173:LYS:HA	6:C:176:GLU:HB2	1.42	1.00
1:A:114:LYS:O	1:A:118:GLU:HB3	1.59	0.99
6:C:3589:SER:O	6:C:3593:ARG:HB3	1.63	0.99
6:C:2140:LEU:O	6:C:2143:ARG:HB2	1.62	0.99
6:C:449:TYR:HB2	6:C:454:GLN:HE21	1.25	0.98
6:C:1032:CYS:O	6:C:1035:GLU:HB3	1.63	0.98
4:D:1:DG:N2	5:E:35:DC:O2	1.96	0.98
6:C:1983:ASP:HA	6:C:1986:ARG:HB2	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3603:LYS:O	6:C:3607:GLU:HB2	1.62	0.98
6:C:2781:PRO:HA	6:C:2784:GLN:HB3	1.45	0.97
6:C:609:ALA:O	6:C:613:HIS:HB2	1.64	0.97
1:A:232:HIS:HB3	1:A:425:ILE:HG23	1.42	0.97
1:A:247:ARG:O	1:A:488:ARG:NH2	1.98	0.97
6:C:964:ARG:NH1	6:C:964:ARG:O	1.98	0.97
4:D:10:DG:N2	5:E:26:DC:O2	1.98	0.97
6:C:1116:ALA:HA	6:C:1119:LYS:HD3	1.47	0.97
6:C:3977:THR:O	6:C:3981:TYR:HB2	1.65	0.97
6:C:620:PHE:O	6:C:659:ARG:NH1	1.96	0.97
6:C:108:LYS:HB3	6:C:153:PHE:HE2	1.30	0.96
6:C:70:ARG:HH22	6:C:75:SER:HA	1.31	0.96
6:C:797:ASP:HB3	6:C:870:LEU:H	1.30	0.96
4:D:9:DG:C2	5:E:27:DC:C2	2.54	0.96
4:D:11:DC:N3	5:E:25:DG:N1	2.12	0.96
6:C:1067:ALA:HA	6:C:1075:ARG:HE	1.29	0.96
6:C:4080:VAL:HG12	6:C:4115:ASN:HD21	1.28	0.96
6:C:2887:PRO:O	6:C:2890:ILE:HB	1.65	0.95
4:D:10:DG:N1	5:E:26:DC:N3	2.13	0.95
6:C:39:GLY:O	6:C:42:CYS:HB3	1.66	0.95
6:C:2890:ILE:O	6:C:2893:LEU:HB3	1.66	0.95
6:C:2991:LYS:O	6:C:2995:GLU:HB2	1.66	0.95
6:C:852:ARG:HH22	6:C:3114:TYR:HB2	1.28	0.95
4:D:2:DG:H2'	4:D:3:DT:C6	2.02	0.94
6:C:2575:PRO:HB2	6:C:2787:HIS:HB2	1.46	0.94
1:A:402:PRO:HD2	1:A:406:ILE:HG21	1.48	0.94
6:C:979:VAL:O	6:C:983:LEU:HB2	1.66	0.94
6:C:1503:LEU:O	6:C:1507:CYS:HB2	1.67	0.94
6:C:2952:ILE:HG21	6:C:2969:ALA:HB2	1.49	0.94
6:C:3319:ASN:HD21	6:C:3408:GLY:HA3	1.32	0.94
6:C:2386:LEU:HD13	6:C:2404:ARG:HD3	1.49	0.94
6:C:788:TYR:O	6:C:791:ASP:HB2	1.67	0.94
6:C:2225:HIS:O	6:C:2228:ARG:N	1.99	0.94
6:C:2522:ARG:NH1	6:C:2526:SER:OG	1.98	0.94
6:C:47:SER:H	6:C:51:LEU:HB2	1.32	0.94
6:C:31:GLY:O	6:C:34:LEU:HB3	1.66	0.94
6:C:2328:ARG:HH12	6:C:2370:SER:HB3	1.30	0.94
1:A:403:ARG:NH2	5:E:36:DA:N3	2.15	0.93
2:B:450:GLN:O	2:B:532:LYS:NZ	2.01	0.93
6:C:2933:ILE:O	6:C:2937:ASP:HB2	1.68	0.93
6:C:3003:ASN:HD22	6:C:3006:ALA:HB3	1.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3297:VAL:O	6:C:3301:LEU:HB3	1.66	0.93
6:C:3152:SER:HB2	6:C:3153:SER:HB3	1.50	0.93
6:C:3794:VAL:HB	6:C:3802:LEU:HB2	1.50	0.93
6:C:986:PRO:HA	6:C:2776:ARG:HH22	1.34	0.93
6:C:2242:VAL:O	6:C:2246:LYS:NZ	2.02	0.93
6:C:3130:GLN:NE2	6:C:3181:ASP:OD2	2.02	0.93
6:C:3469:LEU:HG	6:C:3473:GLU:HB2	1.48	0.93
6:C:1069:HIS:HB3	6:C:3741:ARG:HE	1.30	0.93
6:C:3860:LYS:HB3	6:C:3863:ASN:HB3	1.51	0.93
6:C:3999:THR:O	6:C:4003:ASP:HB2	1.68	0.93
2:B:489:ARG:NH1	2:B:493:CYS:SG	2.42	0.93
6:C:1974:ASN:HD22	6:C:1984:LEU:HD13	1.32	0.93
6:C:3813:LYS:HD3	6:C:3925:LEU:HD11	1.48	0.93
2:B:494:LEU:O	2:B:498:ALA:HB3	1.69	0.92
6:C:920:THR:HA	6:C:923:ASP:HB3	1.51	0.92
6:C:2989:ALA:O	6:C:2993:PHE:N	2.02	0.92
6:C:986:PRO:O	6:C:2776:ARG:NH1	2.02	0.92
6:C:3833:ARG:HB3	6:C:3835:PRO:HD2	1.50	0.92
1:A:318:ARG:HB3	2:B:276:TRP:HB3	1.52	0.92
6:C:2434:VAL:O	6:C:2437:ASP:HB2	1.69	0.92
6:C:759:GLY:HA3	6:C:773:LEU:HD11	1.49	0.92
6:C:3283:LEU:O	6:C:3286:CYS:N	2.03	0.92
2:B:343:LEU:N	2:B:392:ILE:O	2.01	0.91
1:A:290:ARG:HA	2:B:311:ILE:HG23	1.52	0.91
1:A:164:LYS:HD2	1:A:198:ILE:HG12	1.52	0.91
6:C:2227:LYS:HG3	6:C:2232:ARG:HA	1.52	0.91
6:C:434:VAL:O	6:C:438:LEU:HB2	1.70	0.91
6:C:66:LEU:HD22	6:C:85:ILE:HG21	1.52	0.91
6:C:364:ARG:O	6:C:368:LEU:N	2.04	0.91
6:C:2211:LEU:HA	6:C:2214:ARG:HH21	1.33	0.91
6:C:10:CYS:O	6:C:14:ARG:N	2.02	0.90
6:C:1516:GLU:O	6:C:1520:ALA:HB2	1.70	0.90
6:C:2235:LEU:O	6:C:2238:ILE:N	2.03	0.90
1:A:321:ILE:H	2:B:274:LYS:HZ2	1.19	0.90
1:A:410:PHE:HB3	1:A:437:LEU:HD12	1.53	0.90
6:C:723:ASP:H	6:C:726:LEU:HB2	1.36	0.90
6:C:2317:ALA:O	6:C:2321:GLU:N	2.04	0.90
1:A:289:TYR:HD1	2:B:310:ILE:HG22	1.36	0.90
6:C:654:ILE:HA	6:C:730:LEU:HD21	1.51	0.90
6:C:357:LYS:HB3	6:C:360:SER:HB2	1.50	0.90
6:C:3872:ARG:HH21	6:C:3873:LYS:HE3	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:GLU:O	1:A:516:LYS:HB2	1.71	0.90
6:C:2072:ARG:H	6:C:2075:THR:HG1	1.18	0.89
6:C:1071:ASN:ND2	6:C:3742:GLY:O	2.04	0.89
6:C:3581:PRO:HA	6:C:3584:LEU:HD13	1.54	0.89
6:C:82:ARG:HD2	6:C:130:LEU:HG	1.55	0.89
6:C:2965:TYR:O	6:C:2968:ALA:N	2.05	0.89
6:C:1639:LEU:O	6:C:1643:MET:HB3	1.72	0.89
6:C:2293:GLY:HA2	6:C:2297:SER:HA	1.54	0.89
6:C:3279:SER:HA	6:C:3282:ARG:HD3	1.52	0.89
6:C:277:LEU:N	6:C:280:SER:HB3	1.87	0.89
6:C:1747:LEU:O	6:C:1751:GLU:HB2	1.73	0.89
6:C:2396:LEU:O	6:C:2400:VAL:HB	1.72	0.89
6:C:3500:SER:O	6:C:3759:ARG:NH1	2.05	0.89
6:C:316:LEU:O	6:C:320:LEU:CB	2.21	0.89
6:C:888:ARG:HH22	6:C:3892:THR:HA	1.38	0.89
6:C:2523:ASN:O	6:C:2526:SER:N	2.04	0.89
6:C:2554:PHE:HA	6:C:2557:LEU:HD12	1.54	0.89
1:A:465:ILE:HG23	1:A:518:LEU:HD11	1.52	0.89
6:C:2966:SER:O	6:C:2970:LYS:HB2	1.71	0.89
6:C:2072:ARG:N	6:C:2075:THR:OG1	2.06	0.88
6:C:2931:ARG:HE	6:C:2956:ALA:HB1	1.37	0.88
1:A:101:ASN:ND2	1:A:139:SER:OG	2.05	0.88
6:C:3904:PHE:O	6:C:3907:SER:OG	1.91	0.88
4:D:-2:DT:H3	5:E:39:DA:H2	1.17	0.88
4:D:1:DG:O6	5:E:35:DC:N4	2.05	0.88
6:C:3298:LEU:O	6:C:3302:LYS:N	2.06	0.88
6:C:277:LEU:HB2	6:C:280:SER:H	1.37	0.88
6:C:2962:ARG:HA	6:C:3003:ASN:ND2	1.88	0.88
4:D:-8:DT:H2'	4:D:-7:DA:C8	2.09	0.88
6:C:399:GLN:NE2	6:C:406:ARG:O	2.06	0.88
6:C:3923:ARG:HA	6:C:3927:ASN:HB2	1.55	0.88
6:C:2515:PRO:HB2	6:C:2518:GLN:HG3	1.56	0.88
6:C:3038:GLU:O	6:C:3041:LEU:HB3	1.74	0.88
6:C:620:PHE:O	6:C:623:PHE:N	2.06	0.88
6:C:1107:TYR:O	6:C:1111:LEU:CB	2.21	0.88
1:A:204:HIS:HB3	1:A:237:SER:HB2	1.53	0.87
6:C:11:SER:O	6:C:15:LEU:HB2	1.74	0.87
6:C:2372:PRO:O	6:C:2374:LEU:N	2.07	0.87
6:C:238:MET:HG3	6:C:239:GLU:HG3	1.56	0.87
6:C:1067:ALA:HA	6:C:1075:ARG:NE	1.89	0.87
6:C:1740:VAL:O	6:C:1744:LYS:HB2	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3569:GLN:O	6:C:3572:ILE:N	2.06	0.87
1:A:94:LYS:O	1:A:104:VAL:N	2.08	0.87
6:C:3121:LEU:H	6:C:3124:SER:HB2	1.37	0.87
1:A:377:GLY:O	1:A:381:LEU:N	2.07	0.87
6:C:614:PRO:O	6:C:618:LYS:N	2.06	0.87
6:C:458:CYS:SG	6:C:536:SER:OG	2.33	0.87
6:C:1396:PRO:HA	6:C:1457:GLN:HE21	1.39	0.87
6:C:1907:GLU:HA	6:C:1910:GLU:HB3	1.56	0.87
1:A:277:VAL:HG13	1:A:279:LYS:H	1.39	0.87
4:D:9:DG:C2	5:E:27:DC:O2	2.27	0.87
6:C:399:GLN:HG2	6:C:405:ASP:HB2	1.55	0.87
6:C:609:ALA:O	6:C:613:HIS:CB	2.23	0.87
6:C:1325:GLN:NE2	6:C:1328:GLU:OE1	2.06	0.87
6:C:3629:ARG:O	6:C:3686:TRP:NE1	2.07	0.87
6:C:353:ASP:HA	6:C:1858:LEU:HD12	1.57	0.87
6:C:443:ILE:O	6:C:449:TYR:OH	1.93	0.87
6:C:1688:LEU:O	6:C:1692:ALA:HB2	1.73	0.87
6:C:2364:LEU:O	6:C:2368:THR:OG1	1.91	0.87
6:C:3571:PHE:O	6:C:3575:LEU:CB	2.22	0.86
6:C:779:TYR:O	6:C:783:HIS:N	2.07	0.86
6:C:1751:GLU:O	6:C:1755:SER:N	2.08	0.86
6:C:2961:ALA:O	6:C:3003:ASN:ND2	2.08	0.86
6:C:927:LYS:HE2	6:C:972:LEU:HD11	1.57	0.86
6:C:3947:GLY:O	6:C:3951:GLN:HB2	1.74	0.86
2:B:407:VAL:HG13	2:B:422:VAL:HG23	1.56	0.86
6:C:746:ARG:H	6:C:748:TYR:HE2	1.19	0.86
6:C:1100:VAL:O	6:C:1104:LEU:CB	2.24	0.86
6:C:2962:ARG:NH2	6:C:3006:ALA:O	2.07	0.86
6:C:3538:GLU:O	6:C:3541:SER:HB2	1.75	0.86
6:C:462:VAL:HA	6:C:465:PHE:HD2	1.40	0.86
6:C:933:LEU:O	6:C:937:MET:HB2	1.74	0.86
6:C:1747:LEU:O	6:C:1751:GLU:CB	2.23	0.86
6:C:3048:LYS:O	6:C:3052:LEU:N	2.08	0.86
6:C:3480:LEU:O	6:C:3484:THR:HB	1.75	0.86
1:A:167:MET:HE1	1:A:203:MET:H	1.41	0.86
6:C:902:LYS:O	6:C:2818:LYS:NZ	2.08	0.86
6:C:2101:VAL:O	6:C:2105:HIS:CB	2.24	0.86
6:C:3951:GLN:HE21	6:C:4068:HIS:HB2	1.41	0.86
6:C:304:THR:O	6:C:309:LYS:NZ	2.08	0.86
6:C:550:PHE:HB2	6:C:633:ILE:HD12	1.58	0.86
6:C:2994:TRP:O	6:C:2998:SER:OG	1.94	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:290:TYR:O	6:C:293:LEU:N	2.09	0.86
1:A:94:LYS:HG2	1:A:104:VAL:HB	1.57	0.85
6:C:1100:VAL:O	6:C:1104:LEU:HB3	1.76	0.85
6:C:3477:GLU:O	6:C:3481:SER:N	2.06	0.85
6:C:148:LYS:HA	6:C:151:GLU:HB3	1.56	0.85
6:C:2114:GLU:HG3	6:C:2116:ASP:H	1.41	0.85
6:C:2325:LEU:HD23	6:C:2328:ARG:HD2	1.58	0.85
6:C:3181:ASP:O	6:C:3184:THR:OG1	1.92	0.85
6:C:2237:ILE:O	6:C:2240:THR:OG1	1.93	0.85
6:C:1726:SER:HA	6:C:1866:GLN:HE22	1.41	0.85
6:C:3449:LYS:O	6:C:3453:ALA:N	2.09	0.85
6:C:629:PHE:O	6:C:631:ARG:NH1	2.08	0.85
6:C:713:GLU:O	6:C:717:LYS:HB2	1.76	0.85
1:A:379:SER:O	1:A:383:SER:HB3	1.76	0.85
6:C:1102:GLU:HG3	6:C:1153:LEU:HD11	1.59	0.85
6:C:3003:ASN:HA	6:C:3006:ALA:HB3	1.58	0.85
1:A:46:LYS:NZ	1:A:137:HIS:O	2.10	0.85
1:A:143:LEU:HD12	1:A:144:SER:H	1.40	0.85
6:C:2342:CYS:O	6:C:2345:VAL:N	2.09	0.85
6:C:3957:GLU:HG2	6:C:4120:THR:HG23	1.59	0.85
6:C:700:LYS:N	6:C:703:CYS:SG	2.50	0.85
6:C:2438:ILE:O	6:C:2441:LYS:NZ	2.09	0.85
6:C:2966:SER:O	6:C:2970:LYS:CB	2.25	0.85
1:A:451:LYS:HD3	2:B:416:TYR:HA	1.59	0.85
6:C:283:SER:O	6:C:287:LEU:N	2.09	0.85
2:B:526:SER:O	2:B:530:LEU:N	2.09	0.84
6:C:262:LEU:O	6:C:266:ALA:N	2.09	0.84
6:C:2281:MET:O	6:C:2329:TYR:OH	1.95	0.84
1:A:254:ARG:HE	4:D:0:DT:H4'	1.40	0.84
6:C:135:LEU:HD22	6:C:176:GLU:HG2	1.58	0.84
6:C:868:LYS:O	6:C:871:LEU:N	2.09	0.84
6:C:1808:ASP:HA	6:C:1811:ARG:HE	1.42	0.84
6:C:2188:GLU:HA	6:C:2191:ALA:HB3	1.60	0.84
6:C:3451:LEU:O	6:C:3455:LYS:NZ	2.09	0.84
6:C:17:GLU:O	6:C:21:ALA:HB2	1.75	0.84
6:C:607:ASP:HA	6:C:610:ALA:HB3	1.58	0.84
6:C:3793:VAL:HG12	6:C:3795:PRO:HD3	1.58	0.84
2:B:532:LYS:HE3	2:B:536:LEU:HD12	1.57	0.84
6:C:736:LEU:O	6:C:739:ASN:N	2.10	0.84
6:C:2376:ASP:HA	6:C:2379:MET:HB3	1.60	0.84
6:C:3160:LEU:O	6:C:3163:THR:N	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:ASP:HA	1:A:221:ILE:HA	1.60	0.84
6:C:1480:GLY:O	6:C:1484:LEU:CB	2.26	0.84
6:C:3132:VAL:HA	6:C:3135:LEU:HD12	1.60	0.84
6:C:3868:VAL:O	6:C:3872:ARG:HB3	1.76	0.84
6:C:16:GLN:O	6:C:20:SER:OG	1.96	0.84
6:C:1274:ARG:HA	6:C:1278:ALA:HB3	1.58	0.84
6:C:2975:ALA:O	6:C:2978:LYS:NZ	2.09	0.84
6:C:3276:TRP:HZ3	6:C:3303:THR:HB	1.43	0.84
6:C:3232:ARG:NH2	6:C:3266:SER:O	2.11	0.84
6:C:3435:ASP:O	6:C:3439:LEU:HB3	1.78	0.84
1:A:124:GLY:O	1:A:128:GLN:N	2.11	0.83
1:A:290:ARG:H	2:B:311:ILE:H	1.23	0.83
2:B:314:PHE:O	2:B:321:VAL:N	2.09	0.83
6:C:1603:GLN:HG3	6:C:1606:ARG:HH22	1.42	0.83
6:C:3629:ARG:HH11	6:C:3638:LYS:HZ1	1.26	0.83
1:A:231:VAL:N	1:A:424:LYS:O	2.11	0.83
6:C:204:LEU:HA	6:C:207:GLN:HG2	1.60	0.83
6:C:1920:TYR:HA	6:C:1923:PHE:HB3	1.61	0.83
6:C:3868:VAL:O	6:C:3872:ARG:CB	2.26	0.83
2:B:184:ARG:NH2	2:B:517:ASN:O	2.12	0.83
6:C:2865:HIS:HB2	6:C:2868:LEU:HB2	1.59	0.83
1:A:412:ALA:N	1:A:435:VAL:O	2.11	0.83
6:C:933:LEU:HD11	6:C:2791:ILE:HG23	1.60	0.83
6:C:964:ARG:HH22	6:C:971:ARG:HH22	1.26	0.83
6:C:1252:ALA:O	6:C:1256:TRP:N	2.12	0.83
6:C:2433:LYS:HG3	6:C:2436:LEU:HD12	1.61	0.83
6:C:2510:LEU:HA	6:C:2522:ARG:HG2	1.57	0.83
6:C:3124:SER:O	6:C:3125:ARG:NH2	2.12	0.83
4:D:-2:DT:N3	5:E:39:DA:H2	1.75	0.83
6:C:1078:ALA:O	6:C:1082:PHE:CB	2.26	0.83
6:C:1165:LEU:O	6:C:1169:VAL:N	2.12	0.83
6:C:2462:VAL:HG22	6:C:2470:ARG:HD3	1.58	0.83
6:C:3923:ARG:O	6:C:4124:TRP:NE1	2.11	0.83
1:A:127:GLY:HA2	1:A:130:ARG:HG2	1.60	0.83
1:A:232:HIS:ND1	1:A:421:ASP:OD2	2.12	0.83
6:C:3024:PRO:O	6:C:3027:LEU:N	2.12	0.83
6:C:3042:PRO:O	6:C:3046:ARG:N	2.12	0.83
6:C:1946:ASN:HA	6:C:1949:ILE:HG22	1.58	0.83
6:C:2427:ARG:NH2	6:C:2435:CYS:SG	2.52	0.83
6:C:3765:GLU:HA	6:C:3768:PHE:HD2	1.41	0.83
6:C:4077:TYR:O	6:C:4081:ALA:N	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:ASP:O	1:A:110:ASN:ND2	2.11	0.83
1:A:94:LYS:H	1:A:103:TYR:HA	1.43	0.83
1:A:410:PHE:HZ	2:B:516:LEU:HA	1.44	0.83
1:A:414:VAL:HB	1:A:433:GLN:HB2	1.60	0.83
1:A:468:LYS:HG3	1:A:517:ARG:HG2	1.59	0.83
2:B:332:LYS:O	2:B:334:LYS:NZ	2.12	0.83
6:C:2101:VAL:O	6:C:2105:HIS:HB2	1.78	0.83
6:C:2944:THR:HG21	6:C:2987:THR:HA	1.61	0.83
6:C:3703:GLY:H	6:C:3706:ASP:CG	1.82	0.82
2:B:495:LEU:HG	2:B:499:LEU:HD12	1.61	0.82
6:C:2532:PRO:O	6:C:2538:ARG:NH2	2.11	0.82
6:C:3480:LEU:O	6:C:3484:THR:CB	2.27	0.82
6:C:3813:LYS:HE3	6:C:3817:LEU:HD11	1.62	0.82
6:C:2346:ALA:O	6:C:2349:LEU:N	2.13	0.82
6:C:4084:SER:O	6:C:4087:HIS:N	2.11	0.82
6:C:67:VAL:O	6:C:71:LYS:HB2	1.79	0.82
6:C:1900:PHE:O	6:C:1904:CYS:N	2.10	0.82
4:D:8:DT:H2"	4:D:9:DG:H8	1.45	0.82
6:C:231:LEU:HB3	6:C:277:LEU:HD11	1.59	0.82
6:C:741:ILE:O	6:C:745:VAL:N	2.11	0.82
6:C:1065:SER:O	6:C:1068:LEU:N	2.12	0.82
6:C:1750:LEU:O	6:C:1754:GLN:HB2	1.80	0.82
6:C:4013:TRP:CE2	6:C:4040:PRO:HB2	2.15	0.82
1:A:71:TYR:OH	1:A:109:ASP:OD2	1.96	0.82
6:C:3005:LEU:O	6:C:3046:ARG:NH2	2.13	0.82
1:A:151:ALA:O	1:A:154:PHE:N	2.13	0.82
2:B:297:LEU:N	2:B:303:THR:O	2.12	0.82
6:C:1078:ALA:O	6:C:1082:PHE:HB2	1.78	0.82
6:C:1116:ALA:O	6:C:1119:LYS:NZ	2.13	0.82
6:C:2086:ASP:O	6:C:2090:ARG:N	2.09	0.82
6:C:3579:SER:O	6:C:3630:ARG:NH1	2.13	0.82
6:C:1039:TRP:HZ2	6:C:1049:GLN:HG2	1.44	0.82
6:C:2398:LEU:O	6:C:2402:LEU:HB3	1.80	0.82
6:C:3326:GLN:HA	6:C:3389:VAL:HG22	1.61	0.82
6:C:3435:ASP:O	6:C:3439:LEU:CB	2.28	0.82
6:C:3537:SER:O	6:C:3541:SER:OG	1.97	0.82
1:A:201:ASP:OD1	1:A:222:SER:N	2.11	0.81
6:C:534:LEU:O	6:C:537:SER:OG	1.98	0.81
6:C:2845:ASN:ND2	6:C:3033:GLU:OE2	2.12	0.81
6:C:1046:PRO:HA	6:C:1049:GLN:HB2	1.62	0.81
1:A:278:GLN:HE22	4:D:2:DG:H8	1.25	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:70:ARG:HD2	6:C:73:LEU:HB2	1.62	0.81
6:C:318:SER:O	6:C:321:LYS:N	2.13	0.81
6:C:1928:ALA:HA	6:C:1938:ARG:HH12	1.42	0.81
6:C:2190:VAL:O	6:C:2193:ILE:N	2.13	0.81
6:C:3064:PHE:HA	6:C:3067:LYS:HG2	1.60	0.81
6:C:3998:LEU:HD12	6:C:4001:THR:HB	1.62	0.81
2:B:529:PRO:HA	2:B:532:LYS:HG2	1.60	0.81
6:C:316:LEU:O	6:C:320:LEU:HB3	1.79	0.81
6:C:571:SER:HB2	6:C:605:THR:H	1.44	0.81
6:C:2353:GLN:HG2	6:C:2361:ILE:HD13	1.63	0.81
6:C:977:ASP:HB3	6:C:979:VAL:HG22	1.63	0.81
6:C:2057:GLN:HB3	6:C:2059:PRO:HD2	1.63	0.81
1:A:184:SER:O	1:A:188:THR:OG1	1.98	0.81
6:C:13:LEU:HD21	6:C:58:VAL:HA	1.61	0.81
6:C:2276:LEU:O	6:C:2279:ILE:N	2.13	0.81
6:C:3731:SER:HB2	6:C:3734:ARG:H	1.43	0.81
6:C:3985:VAL:O	6:C:3988:LEU:N	2.12	0.81
6:C:198:ARG:HA	6:C:201:LEU:HD12	1.63	0.81
6:C:805:LEU:HD11	6:C:3115:SER:HA	1.62	0.81
6:C:956:PRO:O	6:C:960:GLN:HB2	1.81	0.81
6:C:2078:ASP:HB2	6:C:2135:ASN:HD21	1.44	0.81
6:C:376:ILE:HB	6:C:381:VAL:HG22	1.63	0.81
6:C:881:LYS:HG3	6:C:883:TYR:HE2	1.46	0.81
6:C:1077:GLY:HA2	6:C:1080:LEU:HG	1.62	0.81
6:C:3068:ALA:O	6:C:3072:GLU:CB	2.28	0.81
1:A:399:ARG:NH1	2:B:517:ASN:OD1	2.14	0.81
1:A:403:ARG:NH1	5:E:37:DT:O4'	2.13	0.81
4:D:4:DA:N6	5:E:40:DT:O4	2.14	0.81
6:C:52:ALA:O	6:C:55:THR:OG1	1.98	0.81
6:C:559:SER:HA	6:C:562:HIS:CD2	2.16	0.81
6:C:1972:GLU:OE2	6:C:1987:ARG:NH2	2.14	0.80
6:C:3502:MET:HA	6:C:3505:LEU:HB3	1.63	0.80
6:C:495:VAL:HG22	6:C:527:TYR:HD2	1.45	0.80
6:C:2152:ASN:HB3	6:C:2153:THR:HA	1.62	0.80
6:C:437:HIS:HB2	6:C:1814:PHE:HB3	1.63	0.80
6:C:1232:PRO:HB2	6:C:1291:LEU:HB3	1.63	0.80
6:C:2236:GLU:N	6:C:2236:GLU:OE1	2.11	0.80
6:C:2531:LEU:HD22	6:C:2538:ARG:HG3	1.63	0.80
4:D:5:DT:H2'	4:D:6:DT:C6	2.17	0.80
6:C:86:LEU:HD23	6:C:89:LEU:HD12	1.62	0.80
6:C:3672:LYS:HA	6:C:3675:LYS:HE2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3533:PHE:O	6:C:3537:SER:N	2.12	0.80
1:A:351:LYS:O	1:A:394:VAL:HA	1.80	0.80
6:C:365:GLY:O	6:C:369:PHE:N	2.13	0.80
6:C:483:VAL:O	6:C:487:LEU:HB2	1.80	0.80
6:C:2186:VAL:HA	6:C:2189:ILE:HB	1.64	0.80
6:C:4066:LEU:O	6:C:4075:ARG:NH2	2.14	0.80
6:C:55:THR:O	6:C:58:VAL:N	2.15	0.80
6:C:67:VAL:O	6:C:71:LYS:CB	2.30	0.80
6:C:741:ILE:HG13	6:C:745:VAL:HG22	1.64	0.80
6:C:863:GLY:HA2	6:C:866:ILE:HD13	1.62	0.80
6:C:1413:ASP:HA	6:C:1416:GLU:HB2	1.64	0.80
6:C:1973:LYS:HE2	6:C:1975:LEU:HD12	1.64	0.80
6:C:2094:MET:O	6:C:2097:LEU:N	2.15	0.80
6:C:3847:SER:HA	6:C:3857:LEU:HD12	1.63	0.80
4:D:3:DT:H3'	4:D:4:DA:H8	1.47	0.80
6:C:50:VAL:O	6:C:54:GLN:HB2	1.81	0.80
4:D:6:DT:H2'	4:D:7:DA:C8	2.17	0.80
6:C:643:GLU:O	6:C:646:VAL:N	2.15	0.80
6:C:907:LEU:N	6:C:2807:GLN:HE22	1.80	0.80
6:C:3663:THR:HA	6:C:3666:LEU:HB3	1.61	0.80
1:A:302:THR:HG22	2:B:291:LYS:HA	1.63	0.80
1:A:427:VAL:HG23	1:A:428:THR:HG23	1.61	0.80
2:B:264:TYR:O	2:B:362:LEU:HA	1.81	0.80
6:C:2056:SER:HA	6:C:2060:ARG:HH11	1.47	0.80
6:C:3931:ALA:O	6:C:3935:GLY:N	2.15	0.80
6:C:2813:PHE:O	6:C:2817:LEU:N	2.14	0.79
6:C:2885:GLN:OE1	6:C:2885:GLN:N	2.13	0.79
6:C:3467:ARG:HD3	6:C:4004:VAL:HB	1.64	0.79
1:A:378:SER:HA	1:A:381:LEU:HB3	1.64	0.79
6:C:139:ARG:O	6:C:142:ARG:N	2.14	0.79
6:C:1133:HIS:HB3	6:C:1136:ARG:HH12	1.48	0.79
6:C:3329:LEU:O	6:C:3333:THR:OG1	2.00	0.79
6:C:3485:LYS:O	6:C:3489:SER:HB3	1.82	0.79
6:C:100:ILE:O	6:C:104:SER:N	2.14	0.79
6:C:643:GLU:HB3	6:C:647:TYR:CE2	2.17	0.79
6:C:2383:PHE:HA	6:C:2404:ARG:NH2	1.97	0.79
6:C:3043:TYR:O	6:C:3047:SER:N	2.15	0.79
6:C:410:MET:O	6:C:413:PHE:N	2.16	0.79
6:C:2348:GLN:HG2	6:C:2352:HIS:CE1	2.17	0.79
6:C:3411:ASP:O	6:C:3415:THR:OG1	1.99	0.79
6:C:888:ARG:NH1	6:C:3891:SER:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1591:LYS:O	6:C:1683:LYS:NZ	2.15	0.79
6:C:4001:THR:O	6:C:4005:PHE:HB2	1.82	0.79
1:A:478:PHE:O	2:B:427:MET:N	2.14	0.79
5:E:28:DA:H2'	5:E:29:DT:O4'	1.82	0.79
6:C:361:ILE:O	6:C:364:ARG:HG2	1.81	0.79
6:C:495:VAL:HG13	6:C:527:TYR:HB3	1.65	0.79
2:B:226:SER:O	2:B:230:SER:OG	2.00	0.79
6:C:287:LEU:O	6:C:290:TYR:N	2.15	0.79
6:C:1168:LEU:O	6:C:1171:TRP:HB3	1.83	0.79
6:C:1740:VAL:O	6:C:1744:LYS:CB	2.30	0.79
6:C:1876:ILE:HG23	6:C:1877:LEU:HG	1.62	0.79
6:C:3661:ASP:HA	6:C:3664:ASN:HD22	1.46	0.79
6:C:3862:ALA:O	6:C:3865:THR:OG1	2.01	0.79
6:C:3881:ASP:O	6:C:3885:ARG:CB	2.29	0.79
1:A:512:GLU:O	1:A:516:LYS:CB	2.31	0.79
2:B:524:THR:HA	2:B:527:GLN:HG2	1.62	0.79
5:E:37:DT:H2''	5:E:38:DA:C5	2.18	0.79
6:C:471:LYS:NZ	6:C:474:VAL:H	1.81	0.79
6:C:993:HIS:CD2	6:C:1038:LYS:HD3	2.18	0.79
6:C:2869:LEU:HD13	6:C:2889:GLY:HA2	1.65	0.79
6:C:2955:SER:HB3	6:C:2960:GLU:HB3	1.65	0.79
6:C:2160:TYR:HA	6:C:2163:HIS:CD2	2.17	0.79
6:C:3538:GLU:HA	6:C:3797:THR:HA	1.65	0.79
6:C:3865:THR:HG22	6:C:4115:ASN:HB2	1.65	0.79
6:C:1980:ASN:O	6:C:1984:LEU:HB2	1.83	0.79
6:C:2493:ASN:OD1	6:C:2494:ASP:N	2.16	0.79
2:B:509:GLN:HB2	2:B:511:HIS:CE1	2.18	0.78
6:C:50:VAL:O	6:C:54:GLN:CB	2.31	0.78
6:C:1142:HIS:HB2	6:C:1145:LEU:HB2	1.63	0.78
6:C:1356:TRP:HA	6:C:1359:LEU:HB2	1.64	0.78
6:C:2095:ALA:O	6:C:2098:THR:OG1	2.00	0.78
6:C:3240:MET:HA	6:C:3243:ILE:HD12	1.65	0.78
6:C:310:LYS:HA	6:C:313:LEU:HD12	1.64	0.78
1:A:352:PRO:HB2	1:A:355:LEU:HB2	1.66	0.78
6:C:850:GLU:HB3	6:C:854:ARG:HH12	1.45	0.78
6:C:1917:LYS:HZ3	6:C:1956:PHE:HA	1.48	0.78
6:C:3121:LEU:O	6:C:3125:ARG:N	2.16	0.78
1:A:204:HIS:O	1:A:238:LYS:NZ	2.13	0.78
6:C:621:SER:O	6:C:659:ARG:NH2	2.17	0.78
6:C:2427:ARG:HH22	6:C:2433:LYS:CA	1.96	0.78
6:C:2828:GLU:OE1	6:C:2831:ASN:ND2	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3622:ALA:O	6:C:3626:GLY:N	2.16	0.78
1:A:194:ARG:NH2	1:A:221:ILE:O	2.17	0.78
1:A:354:VAL:N	1:A:393:GLU:OE2	2.16	0.78
6:C:2371:PHE:HE2	6:C:2378:PHE:HE2	1.29	0.78
1:A:128:GLN:HE21	1:A:132:GLN:HE21	1.32	0.78
1:A:484:GLN:HE21	1:A:488:ARG:HH21	1.32	0.78
6:C:262:LEU:HD11	6:C:307:GLU:HB2	1.66	0.78
6:C:3767:LEU:HD13	6:C:4001:THR:HG21	1.64	0.78
2:B:56:LEU:HD23	2:B:80:HIS:HB3	1.66	0.78
6:C:385:TYR:H	6:C:388:LEU:HB3	1.49	0.78
6:C:1480:GLY:O	6:C:1484:LEU:HB2	1.83	0.78
6:C:2352:HIS:HB2	6:C:2364:LEU:HD11	1.64	0.78
1:A:85:VAL:HB	1:A:105:LEU:HD23	1.65	0.78
2:B:167:PHE:O	2:B:226:SER:OG	2.01	0.78
6:C:1755:SER:HB3	6:C:1863:PHE:CD1	2.19	0.78
6:C:1946:ASN:OD1	6:C:1950:SER:OG	2.01	0.78
6:C:3066:ASP:O	6:C:3069:MET:N	2.16	0.78
6:C:3740:ILE:CB	6:C:3748:HIS:O	2.29	0.78
2:B:20:MET:HA	2:B:30:PRO:HB2	1.64	0.78
6:C:2427:ARG:NH1	6:C:2429:ASP:O	2.14	0.78
6:C:3284:SER:HA	6:C:3287:ARG:HB3	1.66	0.78
6:C:4090:ARG:NH1	6:C:4113:ASP:OD2	2.17	0.78
6:C:336:ASN:O	6:C:339:GLN:N	2.16	0.78
6:C:859:LEU:HB3	6:C:866:ILE:HD12	1.66	0.78
6:C:1034:ARG:HH21	6:C:2776:ARG:HG3	1.49	0.78
6:C:1458:LEU:O	6:C:1462:GLY:N	2.17	0.78
6:C:1594:SER:HB3	6:C:1683:LYS:HZ2	1.49	0.78
6:C:1702:LEU:O	6:C:1706:SER:N	2.15	0.78
6:C:3495:PHE:CE2	6:C:3499:ILE:HA	2.18	0.78
1:A:522:VAL:HG21	2:B:256:ASN:HB3	1.66	0.77
6:C:628:GLU:HG2	6:C:637:LYS:HD3	1.66	0.77
6:C:1006:THR:HG23	6:C:1009:LEU:HD23	1.63	0.77
6:C:1760:GLU:N	6:C:1893:GLU:O	2.17	0.77
6:C:1987:ARG:O	6:C:1991:PRO:HD3	1.84	0.77
6:C:2886:GLN:HG2	6:C:2921:LEU:HD13	1.66	0.77
6:C:3691:LYS:HB2	6:C:3696:ARG:HH11	1.49	0.77
2:B:454:VAL:HG23	2:B:457:LEU:HD23	1.64	0.77
6:C:883:TYR:O	6:C:887:ASP:N	2.17	0.77
6:C:1575:LEU:HB3	6:C:1632:TRP:CZ3	2.19	0.77
2:B:359:ASN:OD1	2:B:360:GLN:N	2.18	0.77
6:C:2305:ASN:O	6:C:2308:SER:OG	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:981:ARG:NE	6:C:985:GLU:OE2	2.17	0.77
6:C:1387:GLY:HA2	6:C:1391:VAL:HB	1.64	0.77
6:C:1683:LYS:O	6:C:1686:LEU:N	2.18	0.77
6:C:2042:GLN:HE22	6:C:2045:PHE:HB2	1.50	0.77
6:C:3122:HIS:O	6:C:3126:LEU:N	2.17	0.77
6:C:4062:ASP:O	6:C:4066:LEU:HB2	1.85	0.77
4:D:1:DG:H2'	4:D:2:DG:C8	2.18	0.77
5:E:46:DT:H2'	5:E:47:DT:C6	2.20	0.77
6:C:93:LEU:HD11	6:C:137:THR:HA	1.66	0.77
6:C:445:SER:O	6:C:525:LYS:NZ	2.17	0.77
6:C:870:LEU:O	6:C:874:THR:HB	1.85	0.77
6:C:3426:LYS:NZ	6:C:3427:GLU:OE2	2.17	0.77
2:B:301:ASP:HA	6:C:119:ARG:HH21	1.47	0.77
6:C:481:THR:HA	6:C:484:HIS:ND1	1.99	0.77
6:C:723:ASP:HB3	6:C:726:LEU:H	1.49	0.77
6:C:785:MET:O	6:C:788:TYR:N	2.17	0.77
6:C:1093:GLU:N	6:C:1097:GLU:OE2	2.18	0.77
6:C:1693:VAL:HA	6:C:1696:LEU:HG	1.67	0.77
6:C:2118:VAL:HG13	6:C:2122:LEU:HD13	1.65	0.77
6:C:3043:TYR:O	6:C:3046:ARG:HB3	1.83	0.77
1:A:314:SER:N	6:C:203:GLU:OE2	2.17	0.77
6:C:1174:ALA:N	6:C:1267:TYR:OH	2.15	0.77
6:C:3142:ILE:O	6:C:3145:ILE:N	2.17	0.77
6:C:4055:ASN:HD21	6:C:4058:VAL:H	1.33	0.77
4:D:9:DG:H1'	5:E:28:DA:H2	1.50	0.77
6:C:476:ARG:HG3	6:C:477:ASN:H	1.49	0.77
6:C:913:ARG:HH21	6:C:933:LEU:HB3	1.47	0.77
6:C:1217:VAL:O	6:C:1274:ARG:NH1	2.17	0.77
6:C:2070:GLU:OE2	6:C:2072:ARG:NH2	2.18	0.77
6:C:2427:ARG:NH2	6:C:2433:LYS:HA	1.99	0.77
6:C:3593:ARG:HH12	6:C:3667:LEU:HD22	1.48	0.77
6:C:483:VAL:O	6:C:487:LEU:CB	2.32	0.77
1:A:86:VAL:HG22	1:A:104:VAL:HA	1.65	0.77
2:B:44:ARG:HA	2:B:47:PHE:HB2	1.67	0.77
2:B:460:SER:HB2	2:B:525:LYS:HB3	1.67	0.77
6:C:252:VAL:HG21	6:C:268:PRO:HD3	1.67	0.77
6:C:1985:LYS:HZ2	6:C:2036:LEU:HB2	1.50	0.77
1:A:429:PRO:HD2	2:B:354:ARG:HH12	1.49	0.76
6:C:752:LEU:HA	6:C:755:ALA:HB3	1.66	0.76
6:C:767:GLU:HA	6:C:770:LEU:HD22	1.66	0.76
6:C:923:ASP:HA	6:C:927:LYS:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1139:GLU:OE1	6:C:1141:LYS:NZ	2.18	0.76
6:C:1598:ASN:HA	6:C:1601:LEU:HG	1.67	0.76
6:C:2215:LEU:HG	6:C:2219:LEU:HD11	1.66	0.76
1:A:93:ASP:HA	1:A:102:ILE:O	1.84	0.76
2:B:43:GLN:HB3	2:B:47:PHE:CE2	2.19	0.76
2:B:343:LEU:HB2	2:B:392:ILE:HG22	1.67	0.76
6:C:316:LEU:O	6:C:320:LEU:HB2	1.86	0.76
6:C:981:ARG:CZ	6:C:1026:ARG:HH22	1.98	0.76
6:C:1653:LEU:O	6:C:1657:SER:HB3	1.85	0.76
6:C:2117:SER:HB2	6:C:2158:ARG:H	1.49	0.76
6:C:3255:ALA:O	6:C:3258:LEU:N	2.19	0.76
6:C:3287:ARG:NH2	6:C:3327:ASN:O	2.17	0.76
1:A:91:GLU:O	1:A:100:LYS:NZ	2.15	0.76
6:C:1699:PHE:O	6:C:1703:THR:OG1	2.03	0.76
6:C:3535:ILE:O	6:C:3539:SER:N	2.15	0.76
2:B:283:THR:O	2:B:285:LYS:NZ	2.18	0.76
6:C:2991:LYS:O	6:C:2995:GLU:CB	2.33	0.76
6:C:3031:TRP:CZ2	6:C:3038:GLU:HB2	2.20	0.76
6:C:681:LYS:HE2	6:C:744:ASP:HA	1.67	0.76
6:C:1076:LEU:HD22	6:C:1124:ILE:HA	1.67	0.76
6:C:1648:LEU:HG	6:C:1652:ILE:HD11	1.68	0.76
6:C:1861:SER:O	6:C:1865:THR:OG1	2.04	0.76
4:D:11:DC:C2	5:E:25:DG:N2	2.53	0.76
6:C:957:PRO:O	6:C:960:GLN:HB3	1.85	0.76
6:C:1501:PRO:O	6:C:1505:LEU:CB	2.33	0.76
6:C:1807:LYS:O	6:C:1811:ARG:NH2	2.18	0.76
6:C:2406:GLU:O	6:C:2409:THR:OG1	2.02	0.76
6:C:2936:TYR:HE1	6:C:2946:GLU:HA	1.50	0.76
6:C:3457:ASN:OD1	6:C:3458:SER:N	2.19	0.76
6:C:3961:PHE:HE1	6:C:3963:LEU:HB2	1.49	0.76
1:A:171:ASN:HB3	1:A:207:LYS:HD3	1.68	0.76
1:A:316:THR:OG1	2:B:278:VAL:O	2.04	0.76
1:A:319:SER:OG	1:A:326:GLN:OE1	2.03	0.76
2:B:342:VAL:HA	2:B:393:VAL:HG22	1.67	0.76
4:D:-5:DT:H2'	4:D:-4:DA:H8	1.50	0.76
4:D:15:DG:N2	5:E:20:DT:O2	2.16	0.76
6:C:330:ASN:HB2	6:C:334:HIS:HD2	1.50	0.76
6:C:624:ILE:HA	6:C:627:VAL:HB	1.68	0.76
6:C:706:LEU:O	6:C:709:LYS:N	2.19	0.76
6:C:2820:MET:HA	6:C:2823:PHE:CD2	2.20	0.76
6:C:2946:GLU:HG3	6:C:2947:ILE:HG13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3141:PHE:HA	6:C:3144:PHE:CZ	2.20	0.76
6:C:3161:LEU:HD22	6:C:3164:TRP:CE2	2.21	0.76
6:C:3661:ASP:O	6:C:3664:ASN:HB2	1.86	0.76
6:C:3916:TRP:CZ2	6:C:4051:LEU:HG	2.20	0.76
2:B:485:PRO:O	2:B:488:GLN:N	2.18	0.76
6:C:366:TYR:O	6:C:370:ALA:N	2.17	0.76
6:C:628:GLU:HG3	6:C:634:LEU:HD22	1.66	0.76
6:C:995:PHE:HA	6:C:998:ASN:HB2	1.66	0.76
2:B:251:LEU:HD11	2:B:342:VAL:HG23	1.66	0.76
6:C:723:ASP:OD1	6:C:724:GLU:N	2.19	0.76
6:C:788:TYR:O	6:C:792:ILE:N	2.18	0.76
6:C:973:ALA:O	6:C:977:ASP:N	2.18	0.76
6:C:3353:GLU:OE2	6:C:3357:ARG:NH1	2.19	0.76
1:A:182:LYS:HG2	1:A:185:ARG:HH12	1.51	0.76
6:C:727:ALA:O	6:C:730:LEU:N	2.19	0.76
6:C:3440:GLN:O	6:C:3474:ARG:NE	2.19	0.76
6:C:3908:HIS:HA	6:C:3911:ILE:HD12	1.66	0.76
2:B:77:ILE:HG21	2:B:113:VAL:HG21	1.66	0.75
6:C:1639:LEU:O	6:C:1643:MET:CB	2.34	0.75
6:C:2215:LEU:O	6:C:2219:LEU:HG	1.86	0.75
6:C:2330:VAL:HG22	6:C:2335:ASN:HA	1.68	0.75
6:C:3850:HIS:CE1	6:C:3853:GLY:H	2.04	0.75
6:C:3860:LYS:O	6:C:3864:ARG:N	2.18	0.75
1:A:319:SER:HB2	1:A:328:ILE:HD12	1.66	0.75
2:B:292:GLU:HB3	2:B:294:VAL:HG23	1.66	0.75
6:C:259:GLN:O	6:C:263:LYS:HB3	1.86	0.75
6:C:1705:GLY:O	6:C:1711:ARG:NH2	2.18	0.75
6:C:2498:ILE:O	6:C:2501:LEU:N	2.19	0.75
6:C:2898:LEU:HB3	6:C:2902:PRO:HD3	1.67	0.75
6:C:3297:VAL:O	6:C:3301:LEU:CB	2.34	0.75
6:C:3534:ILE:O	6:C:3537:SER:HB2	1.86	0.75
6:C:3836:PRO:HB3	6:C:4127:TRP:CZ3	2.22	0.75
6:C:484:HIS:HE1	6:C:555:SER:HB2	1.50	0.75
6:C:776:TRP:CE2	6:C:780:ILE:HG13	2.21	0.75
6:C:2190:VAL:HA	6:C:2193:ILE:HG12	1.66	0.75
1:A:492:ALA:O	1:A:496:ASP:N	2.19	0.75
2:B:184:ARG:O	2:B:232:ARG:NH2	2.19	0.75
2:B:399:LYS:HG3	4:D:11:DC:H4'	1.67	0.75
6:C:2320:ALA:HB2	6:C:2367:VAL:HA	1.69	0.75
6:C:3095:ASP:HB3	6:C:3098:ARG:CZ	2.16	0.75
6:C:3182:ILE:HG13	6:C:3183:ILE:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:360:SER:O	6:C:363:ILE:HB	1.84	0.75
6:C:751:ALA:O	6:C:755:ALA:CB	2.35	0.75
6:C:1033:ILE:HD13	6:C:1085:ILE:HG23	1.69	0.75
6:C:1039:TRP:CZ2	6:C:1049:GLN:HG2	2.21	0.75
6:C:1952:ILE:HG12	6:C:1953:CYS:H	1.51	0.75
6:C:1985:LYS:HA	6:C:1988:TYR:CE2	2.21	0.75
6:C:2000:ARG:NH1	6:C:2050:GLN:O	2.19	0.75
1:A:254:ARG:NH2	4:D:1:DG:H4'	2.02	0.75
2:B:391:ALA:HB3	2:B:408:ALA:O	1.87	0.75
4:D:5:DT:H2'	4:D:6:DT:H6	1.51	0.75
6:C:620:PHE:C	6:C:659:ARG:HH12	1.90	0.75
6:C:2405:VAL:HA	6:C:2408:MET:HG2	1.69	0.75
6:C:2556:SER:O	6:C:2559:THR:OG1	2.05	0.75
6:C:3293:CYS:HA	6:C:3335:ARG:CZ	2.16	0.75
6:C:3589:SER:OG	6:C:3670:MET:SD	2.44	0.75
6:C:2446:LEU:O	6:C:2451:LEU:HB2	1.86	0.75
6:C:3484:THR:OG1	6:C:3516:HIS:ND1	2.19	0.75
6:C:3805:TRP:NE1	6:C:3807:GLU:OE2	2.18	0.75
1:A:115:ARG:O	1:A:118:GLU:HG2	1.86	0.75
1:A:132:GLN:O	1:A:136:GLY:N	2.20	0.75
6:C:580:ASP:OD2	6:C:593:ASN:ND2	2.20	0.75
6:C:2418:LYS:O	6:C:2421:VAL:HG12	1.87	0.75
6:C:2930:TYR:O	6:C:2933:ILE:N	2.18	0.75
1:A:90:THR:O	1:A:101:ASN:ND2	2.15	0.75
6:C:199:ALA:O	6:C:202:GLY:N	2.20	0.75
6:C:4114:PRO:HA	6:C:4117:LEU:HB2	1.68	0.75
1:A:254:ARG:H	2:B:431:ARG:HH21	1.35	0.74
2:B:448:GLU:O	2:B:451:LEU:N	2.19	0.74
6:C:634:LEU:O	6:C:638:GLN:NE2	2.19	0.74
6:C:885:ALA:HB3	6:C:888:ARG:HA	1.69	0.74
6:C:1026:ARG:NH2	6:C:1027:ASP:OD1	2.20	0.74
6:C:1501:PRO:O	6:C:1505:LEU:HB3	1.87	0.74
2:B:530:LEU:O	2:B:534:LYS:NZ	2.19	0.74
6:C:1602:ASP:HA	6:C:1605:PHE:HB3	1.69	0.74
1:A:301:ARG:O	2:B:292:GLU:N	2.20	0.74
1:A:421:ASP:OD1	1:A:424:LYS:N	2.19	0.74
1:A:471:PHE:HE2	2:B:344:GLY:HA3	1.50	0.74
6:C:1036:PHE:HA	6:C:1039:TRP:HB3	1.68	0.74
6:C:2480:ILE:HG13	6:C:2484:TYR:CE2	2.22	0.74
6:C:3883:LEU:HB3	6:C:3970:LEU:HD22	1.68	0.74
1:A:411:VAL:HG12	1:A:436:PHE:HA	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:36:ARG:O	6:C:40:GLN:N	2.14	0.74
6:C:47:SER:N	6:C:51:LEU:HB2	2.02	0.74
6:C:942:LEU:HA	6:C:945:ALA:HB3	1.69	0.74
1:A:278:GLN:O	1:A:279:LYS:HG2	1.87	0.74
1:A:303:PHE:HA	1:A:310:LEU:HA	1.69	0.74
6:C:1481:THR:O	6:C:1485:SER:OG	2.03	0.74
1:A:362:LEU:HD13	2:B:268:LEU:HA	1.68	0.74
2:B:307:LYS:NZ	2:B:309:ASP:OD2	2.18	0.74
6:C:576:VAL:HG13	6:C:601:TRP:H	1.53	0.74
6:C:1956:PHE:HB3	6:C:1959:LEU:HD23	1.70	0.74
2:B:431:ARG:NH1	2:B:432:GLN:O	2.21	0.74
6:C:566:ASP:HB3	6:C:1799:GLU:HB3	1.70	0.74
6:C:649:PHE:HA	6:C:656:GLN:HE21	1.52	0.74
6:C:703:CYS:O	6:C:707:PHE:HB2	1.87	0.74
6:C:750:PRO:HA	6:C:753:GLN:HB3	1.69	0.74
6:C:870:LEU:O	6:C:874:THR:CB	2.35	0.74
6:C:1029:CYS:HA	6:C:1032:CYS:HB2	1.68	0.74
6:C:2808:LEU:O	6:C:2811:SER:OG	2.04	0.74
6:C:3974:MET:HA	6:C:3975:LYS:HB3	1.70	0.74
1:A:349:GLY:O	1:A:396:ALA:HA	1.88	0.74
2:B:532:LYS:HE2	2:B:537:PHE:HE2	1.52	0.74
6:C:2830:ASN:O	6:C:2833:THR:OG1	2.03	0.74
6:C:3172:LYS:HE3	6:C:3241:LYS:HB3	1.70	0.74
6:C:3325:ASP:HA	6:C:3328:ILE:HD12	1.70	0.74
1:A:419:GLU:H	1:A:426:GLN:HE22	1.36	0.74
1:A:484:GLN:HG3	1:A:487:PHE:CE1	2.23	0.74
6:C:1962:TYR:O	6:C:1966:LEU:N	2.21	0.74
6:C:3298:LEU:HA	6:C:3301:LEU:HB3	1.67	0.74
1:A:481:PRO:O	1:A:484:GLN:N	2.21	0.74
6:C:2323:LEU:O	6:C:2326:ILE:HG22	1.88	0.74
6:C:2954:GLN:O	6:C:2958:LEU:N	2.16	0.74
1:A:330:GLU:N	1:A:333:GLU:OE1	2.19	0.73
5:E:25:DG:H2''	5:E:26:DC:H5'	1.70	0.73
6:C:429:GLU:O	6:C:431:TYR:N	2.20	0.73
6:C:434:VAL:HA	6:C:437:HIS:CE1	2.23	0.73
6:C:2035:THR:OG1	6:C:2036:LEU:N	2.16	0.73
6:C:2472:GLN:NE2	6:C:2476:ILE:HG23	2.03	0.73
6:C:2962:ARG:NH1	6:C:3008:TRP:HB3	2.03	0.73
6:C:3309:GLU:HA	6:C:3312:VAL:HG13	1.69	0.73
6:C:3480:LEU:HD22	6:C:3516:HIS:HB2	1.67	0.73
1:A:449:THR:HG22	1:A:450:GLU:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:345:PHE:HZ	6:C:364:ARG:HA	1.53	0.73
6:C:407:VAL:O	6:C:410:MET:N	2.20	0.73
6:C:2371:PHE:HE2	6:C:2378:PHE:CE2	2.06	0.73
6:C:2886:GLN:HB3	6:C:2887:PRO:HD3	1.67	0.73
6:C:2886:GLN:NE2	6:C:2925:GLU:HG2	2.03	0.73
4:D:-4:DA:H3'	4:D:-3:DT:H71	1.71	0.73
6:C:731:THR:O	6:C:734:LEU:N	2.20	0.73
6:C:1379:PRO:HA	6:C:1384:PHE:HB2	1.70	0.73
6:C:1925:GLU:OE2	6:C:1963:GLN:NE2	2.21	0.73
6:C:2304:VAL:O	6:C:2348:GLN:NE2	2.19	0.73
6:C:3304:VAL:HG13	6:C:3305:SER:H	1.53	0.73
6:C:723:ASP:N	6:C:727:ALA:H	1.86	0.73
6:C:1097:GLU:HB3	6:C:1101:PHE:CZ	2.24	0.73
6:C:1678:LEU:O	6:C:1682:THR:OG1	2.04	0.73
6:C:1865:THR:O	6:C:1869:LYS:HG2	1.87	0.73
6:C:3256:MET:SD	6:C:3282:ARG:NH1	2.61	0.73
6:C:3259:LEU:HD22	6:C:3282:ARG:HH11	1.52	0.73
6:C:85:ILE:O	6:C:88:PHE:N	2.21	0.73
6:C:365:GLY:HA2	6:C:368:LEU:HB2	1.69	0.73
6:C:468:LEU:HA	6:C:471:LYS:HE3	1.68	0.73
6:C:789:TYR:HA	6:C:792:ILE:HB	1.71	0.73
6:C:1890:HIS:NE2	6:C:1940:TYR:HB2	2.04	0.73
6:C:1938:ARG:HD2	6:C:1986:ARG:CB	2.17	0.73
6:C:2500:LYS:O	6:C:2503:LYS:N	2.21	0.73
1:A:289:TYR:HA	2:B:310:ILE:HB	1.70	0.73
1:A:392:LYS:NZ	2:B:462:SER:OG	2.21	0.73
6:C:663:ILE:HB	6:C:667:TYR:CE2	2.24	0.73
6:C:1597:LEU:O	6:C:1600:MET:HB2	1.88	0.73
6:C:2028:LEU:O	6:C:2034:SER:OG	2.07	0.73
6:C:2866:ALA:HB1	6:C:2897:LEU:HA	1.69	0.73
6:C:3312:VAL:HB	6:C:3315:TYR:CG	2.24	0.73
1:A:360:HIS:HA	2:B:267:ILE:HG13	1.70	0.73
2:B:250:ARG:HA	2:B:259:ILE:O	1.89	0.73
2:B:494:LEU:O	2:B:498:ALA:CB	2.37	0.73
6:C:287:LEU:HA	6:C:290:TYR:HB3	1.70	0.73
6:C:1640:GLU:O	6:C:1644:ALA:CB	2.34	0.73
6:C:2796:ALA:O	6:C:2800:ARG:N	2.21	0.73
6:C:3112:GLN:HE21	6:C:3116:SER:HB3	1.53	0.73
6:C:3976:GLU:HA	6:C:3979:LEU:HB2	1.71	0.73
1:A:301:ARG:H	2:B:292:GLU:HB2	1.53	0.73
2:B:13:CYS:HB3	2:B:134:ILE:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:15:DG:N1	5:E:20:DT:OP2	2.20	0.73
6:C:707:PHE:HA	6:C:710:PHE:HE2	1.53	0.73
6:C:955:ALA:O	6:C:958:MET:N	2.21	0.73
6:C:1425:ALA:O	6:C:1429:GLU:HB2	1.89	0.73
6:C:1598:ASN:HD22	6:C:1601:LEU:HD11	1.53	0.73
6:C:2010:GLU:HG2	6:C:2011:ALA:H	1.54	0.73
6:C:2888:VAL:O	6:C:2891:ARG:CB	2.37	0.73
6:C:3681:LYS:HA	6:C:3684:SER:HB2	1.71	0.73
1:A:88:TYR:HA	1:A:102:ILE:HA	1.69	0.73
6:C:1476:HIS:ND1	6:C:1507:CYS:O	2.21	0.73
6:C:1957:ASN:H	6:C:1960:LYS:HE3	1.54	0.73
6:C:4055:ASN:ND2	6:C:4058:VAL:H	1.86	0.73
1:A:43:ASP:HA	1:A:88:TYR:CE2	2.24	0.73
1:A:133:ASP:OD1	1:A:134:MET:N	2.21	0.73
1:A:350:PHE:HB2	2:B:462:SER:HA	1.71	0.73
1:A:445:LYS:HE2	2:B:243:HIS:HA	1.71	0.73
2:B:314:PHE:HB2	2:B:321:VAL:HB	1.71	0.73
6:C:461:ILE:O	6:C:464:VAL:HG12	1.88	0.73
6:C:669:LEU:HB3	6:C:672:ILE:HG12	1.70	0.73
6:C:963:LYS:HD3	6:C:1009:LEU:HB2	1.71	0.73
6:C:1036:PHE:O	6:C:1040:SER:N	2.17	0.73
6:C:2018:ASP:HA	6:C:2044:ASP:HB3	1.71	0.73
6:C:2187:VAL:O	6:C:2191:ALA:CB	2.37	0.73
6:C:3571:PHE:HZ	6:C:3690:PHE:H	1.34	0.73
6:C:3815:LEU:HD23	6:C:3818:ASN:HD21	1.54	0.73
1:A:447:PRO:HG3	2:B:243:HIS:HB3	1.71	0.72
6:C:413:PHE:O	6:C:416:SER:OG	2.07	0.72
6:C:964:ARG:NH2	6:C:971:ARG:HH22	1.87	0.72
6:C:1875:LYS:HD2	6:C:1903:SER:HA	1.71	0.72
6:C:2928:LYS:HD2	6:C:2931:ARG:HH22	1.54	0.72
6:C:3660:ASN:O	6:C:3664:ASN:ND2	2.22	0.72
6:C:3765:GLU:HA	6:C:3768:PHE:CD2	2.24	0.72
1:A:89:GLY:N	1:A:101:ASN:O	2.22	0.72
4:D:4:DA:H2'	4:D:5:DT:H71	1.70	0.72
6:C:439:VAL:O	6:C:442:GLN:HB3	1.88	0.72
6:C:2180:GLU:OE1	6:C:2184:TYR:OH	2.03	0.72
6:C:3425:ARG:NH2	6:C:4003:ASP:OD2	2.21	0.72
4:D:10:DG:O6	5:E:26:DC:N4	2.22	0.72
6:C:126:PRO:O	6:C:129:ASP:N	2.22	0.72
6:C:2080:VAL:HG23	6:C:2081:LEU:HG	1.71	0.72
6:C:2245:TRP:HB2	6:C:2246:LYS:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2452:ARG:NH2	6:C:2494:ASP:O	2.22	0.72
6:C:2970:LYS:O	6:C:2974:GLU:CB	2.37	0.72
6:C:3428:GLU:OE1	6:C:4049:ARG:NH2	2.22	0.72
6:C:3471:ILE:HG23	6:C:3472:ILE:HG12	1.70	0.72
6:C:3590:ASN:O	6:C:3594:ALA:HB2	1.89	0.72
6:C:1063:LEU:O	6:C:1067:ALA:HB2	1.90	0.72
6:C:1758:LEU:HD13	6:C:1761:LEU:HD23	1.71	0.72
6:C:3276:TRP:CZ3	6:C:3303:THR:HB	2.23	0.72
1:A:75:ILE:O	1:A:78:SER:OG	2.05	0.72
1:A:101:ASN:ND2	1:A:139:SER:HG	1.86	0.72
4:D:-6:DT:H2'	4:D:-5:DT:C6	2.25	0.72
6:C:313:LEU:HA	6:C:316:LEU:HD23	1.72	0.72
6:C:1857:LYS:O	6:C:1861:SER:N	2.22	0.72
6:C:1934:LEU:HG	6:C:1937:ARG:HB2	1.70	0.72
6:C:2361:ILE:HA	6:C:2364:LEU:HD12	1.71	0.72
6:C:2890:ILE:HG13	6:C:2921:LEU:HD21	1.71	0.72
6:C:2894:GLU:HA	6:C:2898:LEU:HD22	1.72	0.72
1:A:320:GLN:HA	2:B:274:LYS:HD2	1.70	0.72
6:C:1458:LEU:HD13	6:C:1464:LEU:HA	1.71	0.72
6:C:1638:PRO:O	6:C:1642:LYS:NZ	2.20	0.72
6:C:2028:LEU:HD13	6:C:2033:ASP:HB3	1.70	0.72
6:C:2032:ALA:O	6:C:2036:LEU:N	2.22	0.72
6:C:2245:TRP:HB2	6:C:2246:LYS:HZ3	1.53	0.72
6:C:3977:THR:O	6:C:3981:TYR:CB	2.38	0.72
6:C:4084:SER:O	6:C:4088:ASN:N	2.21	0.72
1:A:95:ASN:OD1	1:A:98:ASN:N	2.14	0.72
1:A:143:LEU:HG	1:A:185:ARG:HH21	1.53	0.72
1:A:166:ILE:HG22	1:A:200:LEU:HD12	1.71	0.72
2:B:249:CYS:HB2	2:B:338:LYS:HD2	1.72	0.72
6:C:532:ARG:HA	6:C:535:LEU:HD12	1.71	0.72
6:C:625:ASN:HB3	6:C:659:ARG:HH21	1.55	0.72
6:C:1260:LEU:O	6:C:1264:LEU:CB	2.36	0.72
6:C:1412:LYS:O	6:C:1415:LEU:HB2	1.90	0.72
6:C:1688:LEU:O	6:C:1692:ALA:CB	2.38	0.72
6:C:1941:HIS:O	6:C:1945:TYR:HB2	1.90	0.72
2:B:89:ASP:OD1	2:B:90:LEU:N	2.23	0.72
6:C:66:LEU:HD12	6:C:69:VAL:HB	1.72	0.72
6:C:1125:GLN:HA	6:C:1128:CYS:HB3	1.71	0.72
6:C:1721:HIS:O	6:C:1725:GLN:HB2	1.89	0.72
6:C:2803:ILE:HG23	6:C:2804:ILE:H	1.55	0.72
6:C:3625:LEU:O	6:C:3629:ARG:N	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3737:ARG:NH1	6:C:3807:GLU:OE2	2.22	0.72
2:B:457:LEU:HB2	2:B:529:PRO:HB3	1.72	0.72
6:C:464:VAL:O	6:C:468:LEU:HG	1.88	0.72
6:C:1958:GLU:O	6:C:1962:TYR:N	2.15	0.72
6:C:432:THR:HG23	6:C:475:LEU:HD22	1.70	0.71
6:C:979:VAL:O	6:C:983:LEU:CB	2.37	0.71
6:C:1416:GLU:O	6:C:1420:ARG:N	2.23	0.71
6:C:1634:ALA:O	6:C:1637:SER:N	2.19	0.71
6:C:1941:HIS:O	6:C:1945:TYR:CB	2.38	0.71
6:C:2404:ARG:O	6:C:2407:GLY:N	2.22	0.71
6:C:2543:ASN:HA	6:C:2546:TYR:CD2	2.25	0.71
6:C:3645:GLY:O	6:C:3649:SER:OG	2.05	0.71
1:A:275:ASN:ND2	4:D:2:DG:OP1	2.24	0.71
6:C:701:TYR:HA	6:C:704:PHE:CD2	2.25	0.71
6:C:1075:ARG:O	6:C:1079:SER:N	2.21	0.71
6:C:1557:GLU:HB3	6:C:1562:LEU:HB3	1.72	0.71
6:C:3019:ILE:HD11	6:C:3027:LEU:HB3	1.72	0.71
6:C:3276:TRP:HB3	6:C:3280:TYR:CZ	2.25	0.71
6:C:3471:ILE:HG12	6:C:3472:ILE:HG23	1.71	0.71
6:C:3603:LYS:O	6:C:3607:GLU:CB	2.37	0.71
1:A:148:TRP:HA	1:A:151:ALA:HB3	1.73	0.71
1:A:485:GLN:NE2	2:B:333:TYR:O	2.15	0.71
6:C:118:ASP:OD2	6:C:122:LYS:NZ	2.23	0.71
6:C:1999:GLU:OE1	6:C:2001:LYS:NZ	2.22	0.71
6:C:2286:PRO:HD3	6:C:2329:TYR:CE1	2.26	0.71
6:C:2901:LEU:HG	6:C:2910:VAL:HG21	1.72	0.71
6:C:3083:SER:OG	6:C:3085:GLU:OE1	2.04	0.71
6:C:865:GLN:O	6:C:868:LYS:NZ	2.23	0.71
6:C:887:ASP:HB3	6:C:3889:ARG:HH21	1.55	0.71
6:C:1328:GLU:O	6:C:1332:TYR:HB3	1.91	0.71
6:C:1978:PHE:O	6:C:1982:ILE:N	2.23	0.71
6:C:3901:ARG:HA	6:C:3904:PHE:HB3	1.72	0.71
6:C:4102:THR:O	6:C:4105:LYS:N	2.24	0.71
1:A:466:VAL:O	1:A:470:ARG:N	2.22	0.71
6:C:407:VAL:HG23	6:C:408:TYR:H	1.54	0.71
6:C:723:ASP:O	6:C:727:ALA:N	2.22	0.71
6:C:2575:PRO:HA	6:C:2789:SER:HB3	1.73	0.71
6:C:2851:PHE:O	6:C:2854:PHE:N	2.23	0.71
6:C:3095:ASP:OD2	6:C:3098:ARG:HG3	1.91	0.71
6:C:3144:PHE:O	6:C:3148:GLN:CB	2.33	0.71
6:C:3167:ARG:HA	6:C:3186:ARG:NH2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3589:SER:O	6:C:3593:ARG:CB	2.38	0.71
6:C:3824:GLU:OE2	6:C:3825:LYS:NZ	2.23	0.71
1:A:465:ILE:HG13	1:A:525:PHE:CZ	2.25	0.71
6:C:862:LEU:HA	6:C:3169:PRO:HB2	1.73	0.71
6:C:1083:ASN:HA	6:C:1086:TYR:CD2	2.25	0.71
6:C:3167:ARG:HH22	6:C:3190:LEU:HD11	1.55	0.71
6:C:4080:VAL:HG12	6:C:4115:ASN:ND2	2.04	0.71
1:A:58:THR:HG23	1:A:61:ASP:H	1.55	0.71
1:A:303:PHE:HD2	2:B:292:GLU:HG2	1.54	0.71
1:A:399:ARG:NH1	2:B:516:LEU:O	2.24	0.71
1:A:420:LEU:HB3	1:A:424:LYS:HG3	1.71	0.71
2:B:533:ILE:HA	2:B:537:PHE:HD2	1.56	0.71
6:C:1163:LEU:H	6:C:1257:LEU:HD21	1.54	0.71
6:C:2157:PHE:HA	6:C:2160:TYR:CD2	2.26	0.71
6:C:2319:ALA:O	6:C:2322:VAL:HB	1.91	0.71
6:C:3296:GLN:HE21	6:C:3300:VAL:HG22	1.56	0.71
6:C:3901:ARG:HH22	6:C:3972:LEU:HG	1.55	0.71
6:C:4050:LYS:O	6:C:4053:GLY:N	2.23	0.71
1:A:388:LYS:NZ	2:B:448:GLU:OE2	2.24	0.71
6:C:532:ARG:O	6:C:536:SER:N	2.16	0.71
6:C:1458:LEU:HB3	6:C:1464:LEU:HB3	1.73	0.71
6:C:2842:ARG:O	6:C:2845:ASN:N	2.23	0.71
6:C:3009:LYS:NZ	6:C:3012:GLU:OE1	2.14	0.71
6:C:3176:MET:HA	6:C:3179:TRP:HB3	1.73	0.71
6:C:3644:PHE:CZ	6:C:3670:MET:HA	2.26	0.71
6:C:3820:MET:O	6:C:3824:GLU:N	2.19	0.71
1:A:116:ILE:HD13	1:A:494:ALA:HB1	1.73	0.71
6:C:540:MET:HG3	6:C:541:MET:HG2	1.72	0.71
6:C:2813:PHE:HB3	6:C:2817:LEU:HD12	1.71	0.71
6:C:3004:HIS:HA	6:C:3011:LEU:HD13	1.73	0.71
6:C:3125:ARG:O	6:C:3128:LYS:N	2.23	0.71
6:C:3312:VAL:HG23	6:C:3314:SER:H	1.54	0.71
6:C:3328:ILE:O	6:C:3331:GLY:N	2.24	0.71
6:C:3487:ILE:HG13	6:C:3495:PHE:HB2	1.71	0.71
6:C:3840:LYS:HA	6:C:3843:LEU:HD12	1.72	0.71
6:C:39:GLY:O	6:C:42:CYS:CB	2.38	0.70
6:C:1023:SER:O	6:C:1026:ARG:HB3	1.90	0.70
6:C:1921:ASP:O	6:C:1925:GLU:CB	2.33	0.70
6:C:2139:PRO:HA	6:C:2142:ILE:HB	1.73	0.70
6:C:2911:ARG:HB3	6:C:2913:LYS:HG2	1.73	0.70
6:C:4125:GLU:HA	6:C:4127:TRP:CD1	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:ILE:HA	1:A:368:VAL:HG22	1.73	0.70
1:A:304:ASN:ND2	1:A:307:THR:OG1	2.23	0.70
2:B:34:ALA:O	2:B:38:ILE:HB	1.91	0.70
6:C:785:MET:HA	6:C:788:TYR:HD2	1.56	0.70
6:C:925:GLN:HG3	6:C:926:THR:HG23	1.73	0.70
6:C:1115:HIS:O	6:C:1117:ASP:N	2.24	0.70
6:C:1253:THR:HA	6:C:1257:LEU:HB2	1.73	0.70
6:C:2319:ALA:O	6:C:2323:LEU:N	2.20	0.70
6:C:3117:ILE:HG12	6:C:3125:ARG:HH22	1.55	0.70
6:C:713:GLU:O	6:C:717:LYS:CB	2.39	0.70
6:C:774:GLU:O	6:C:778:ILE:HG13	1.91	0.70
6:C:1033:ILE:HA	6:C:1036:PHE:CD2	2.26	0.70
6:C:3387:GLU:O	6:C:3391:ALA:HB2	1.91	0.70
6:C:243:GLN:OE1	6:C:243:GLN:N	2.23	0.70
6:C:703:CYS:O	6:C:707:PHE:CB	2.40	0.70
6:C:1329:ARG:O	6:C:1333:SER:HB3	1.91	0.70
6:C:1582:LEU:HD22	6:C:1639:LEU:HD13	1.74	0.70
6:C:1601:LEU:O	6:C:1604:SER:OG	2.08	0.70
6:C:2132:LYS:HB3	6:C:2133:LEU:HG	1.72	0.70
6:C:3425:ARG:NH1	6:C:3428:GLU:OE2	2.25	0.70
6:C:3681:LYS:HZ1	6:C:3725:ARG:HA	1.56	0.70
1:A:142:SER:OG	1:A:185:ARG:NH2	2.24	0.70
1:A:143:LEU:HG	1:A:185:ARG:NH2	2.07	0.70
2:B:187:GLY:N	2:B:232:ARG:HG2	2.07	0.70
6:C:1480:GLY:O	6:C:1484:LEU:HB3	1.91	0.70
6:C:3172:LYS:NZ	6:C:3241:LYS:HE2	2.07	0.70
6:C:3272:TRP:O	6:C:3275:SER:N	2.23	0.70
6:C:3886:ALA:HA	6:C:3889:ARG:HG2	1.73	0.70
2:B:496:HIS:HE1	2:B:503:GLU:HG3	1.56	0.70
6:C:978:GLN:NE2	6:C:982:GLN:OE1	2.24	0.70
6:C:1594:SER:O	6:C:1598:ASN:N	2.22	0.70
6:C:1966:LEU:O	6:C:1969:GLU:HB3	1.92	0.70
6:C:2539:LEU:HA	6:C:2542:LEU:HD22	1.71	0.70
6:C:3011:LEU:HD21	6:C:3046:ARG:HG3	1.73	0.70
6:C:461:ILE:O	6:C:464:VAL:N	2.24	0.70
6:C:786:GLN:O	6:C:789:TYR:HE2	1.74	0.70
6:C:887:ASP:O	6:C:3889:ARG:NE	2.25	0.70
6:C:3313:SER:H	6:C:3315:TYR:HB2	1.56	0.70
6:C:3543:LYS:HZ3	6:C:3545:THR:HA	1.57	0.70
6:C:3590:ASN:OD1	6:C:3593:ARG:NH2	2.25	0.70
6:C:4101:GLU:O	6:C:4105:LYS:HG3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:ARG:O	2:B:433:TYR:OH	2.04	0.70
1:A:410:PHE:HB2	1:A:439:PHE:HZ	1.56	0.70
1:A:479:GLU:HA	2:B:426:PHE:HB3	1.71	0.70
4:D:-3:DT:H2'	4:D:-2:DT:C6	2.27	0.70
6:C:913:ARG:O	6:C:917:LEU:HG	1.91	0.70
6:C:1273:GLU:O	6:C:1276:VAL:N	2.20	0.70
6:C:1503:LEU:O	6:C:1507:CYS:CB	2.39	0.70
6:C:2410:GLU:HG3	6:C:2411:LEU:HB2	1.73	0.70
6:C:3480:LEU:HA	6:C:3516:HIS:ND1	2.06	0.70
1:A:418:GLU:HB2	1:A:430:PRO:HB3	1.73	0.70
6:C:166:ILE:HD13	6:C:173:LYS:HE3	1.74	0.70
6:C:590:GLU:OE2	6:C:1088:GLU:N	2.25	0.70
6:C:1080:LEU:HD12	6:C:1081:ALA:H	1.56	0.70
6:C:1266:CYS:HA	6:C:1347:THR:HG21	1.74	0.70
6:C:2352:HIS:ND1	6:C:2364:LEU:HD21	2.07	0.70
6:C:2435:CYS:SG	6:C:2436:LEU:N	2.65	0.70
6:C:2550:ILE:HA	6:C:2847:THR:HG22	1.73	0.70
6:C:3888:VAL:O	6:C:3891:SER:N	2.25	0.70
1:A:88:TYR:O	1:A:90:THR:OG1	2.10	0.70
2:B:497:ARG:NH2	2:B:504:PRO:O	2.22	0.70
6:C:55:THR:HA	6:C:58:VAL:HB	1.72	0.70
6:C:416:SER:OG	6:C:417:VAL:N	2.23	0.70
6:C:678:LYS:O	6:C:682:TYR:N	2.24	0.70
6:C:1372:LEU:HD22	6:C:1402:LEU:HD23	1.74	0.70
6:C:1471:GLN:HB3	6:C:1475:LEU:HD22	1.74	0.70
6:C:2433:LYS:HD3	6:C:2461:PHE:CD1	2.27	0.70
6:C:3056:GLU:HG2	6:C:3092:LEU:HB3	1.74	0.70
6:C:3281:CYS:SG	6:C:3285:HIS:NE2	2.65	0.70
2:B:185:LEU:HG	2:B:231:LEU:HD12	1.74	0.69
2:B:397:TYR:OH	5:E:28:DA:OP1	2.10	0.69
2:B:412:ILE:HA	2:B:417:GLU:HG2	1.73	0.69
2:B:523:THR:O	2:B:526:SER:OG	2.07	0.69
6:C:2442:MET:CB	6:C:2445:LYS:HB2	2.13	0.69
6:C:3095:ASP:OD2	6:C:3099:ALA:N	2.25	0.69
1:A:335:GLU:O	1:A:339:ARG:NH1	2.25	0.69
6:C:1756:PRO:HD2	6:C:1863:PHE:HB2	1.74	0.69
6:C:2072:ARG:HH12	6:C:2128:PHE:HZ	1.39	0.69
6:C:2238:ILE:O	6:C:2241:LEU:N	2.25	0.69
6:C:2302:ALA:O	6:C:2306:ASN:HB2	1.92	0.69
6:C:2365:ASN:O	6:C:2368:THR:N	2.25	0.69
6:C:2958:LEU:HA	6:C:3989:ARG:HH12	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:SER:O	1:A:73:SER:HB3	1.91	0.69
2:B:362:LEU:HD12	2:B:421:TYR:HB3	1.74	0.69
6:C:400:THR:HB	6:C:1817:GLN:NE2	2.07	0.69
6:C:538:ASP:HB2	6:C:539:GLN:NE2	2.07	0.69
6:C:914:VAL:O	6:C:917:LEU:N	2.24	0.69
6:C:3247:ARG:HB2	6:C:3278:GLN:HE22	1.57	0.69
2:B:247:TRP:HB3	2:B:263:ALA:HB3	1.73	0.69
6:C:223:CYS:O	6:C:227:LEU:HB2	1.92	0.69
6:C:352:VAL:N	6:C:357:LYS:HZ2	1.90	0.69
6:C:2002:LYS:H	6:C:2005:ILE:HG23	1.58	0.69
6:C:2412:TYR:OH	6:C:2419:ASP:OD2	2.09	0.69
6:C:2891:ARG:HH22	6:C:3897:PHE:HB3	1.57	0.69
6:C:3780:ALA:HB1	6:C:3784:ARG:HH12	1.57	0.69
6:C:2349:LEU:HG	6:C:2364:LEU:HD13	1.74	0.69
6:C:3694:PHE:HB2	6:C:3697:ASN:HA	1.74	0.69
1:A:132:GLN:HB3	1:A:137:HIS:CG	2.28	0.69
6:C:400:THR:HB	6:C:1817:GLN:HE22	1.56	0.69
6:C:997:ASN:O	6:C:1042:LYS:NZ	2.25	0.69
6:C:2336:ILE:HG13	6:C:2337:LEU:HG	1.74	0.69
6:C:3792:SER:HB2	6:C:3804:GLU:HB2	1.74	0.69
1:A:261:LEU:HD12	1:A:345:LEU:HB3	1.74	0.69
1:A:289:TYR:CD1	2:B:310:ILE:HG22	2.24	0.69
6:C:850:GLU:HB3	6:C:854:ARG:HH22	1.58	0.69
6:C:1024:THR:O	6:C:1027:ASP:HB2	1.92	0.69
6:C:1516:GLU:O	6:C:1520:ALA:CB	2.40	0.69
6:C:2912:GLY:O	6:C:2916:LEU:CB	2.38	0.69
6:C:3003:ASN:O	6:C:3007:GLU:N	2.25	0.69
6:C:3485:LYS:O	6:C:3489:SER:CB	2.40	0.69
1:A:382:PHE:HA	1:A:385:LEU:HD12	1.73	0.69
1:A:428:THR:HA	2:B:354:ARG:HH12	1.57	0.69
2:B:142:PHE:HE2	2:B:200:GLN:HE21	1.38	0.69
6:C:197:PHE:HA	6:C:200:PHE:HD2	1.58	0.69
6:C:321:LYS:O	6:C:324:SER:N	2.26	0.69
6:C:632:GLU:HG3	6:C:633:ILE:HG23	1.72	0.69
6:C:674:VAL:HG22	6:C:740:ILE:O	1.93	0.69
6:C:751:ALA:O	6:C:755:ALA:HB2	1.93	0.69
6:C:1016:GLY:O	6:C:1022:ASP:HA	1.93	0.69
6:C:1268:ASN:HD22	6:C:1279:LEU:HD11	1.57	0.69
6:C:1493:PRO:O	6:C:1497:ARG:N	2.24	0.69
6:C:2322:VAL:O	6:C:2326:ILE:N	2.26	0.69
6:C:2379:MET:HA	6:C:2382:VAL:HG22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2462:VAL:HG11	6:C:2473:MET:HE1	1.72	0.69
6:C:2476:ILE:HG22	6:C:2479:TRP:CD2	2.28	0.69
6:C:4009:PRO:HB2	6:C:4012:ASP:H	1.58	0.69
1:A:458:GLN:HG3	1:A:528:LEU:HD13	1.75	0.69
2:B:268:LEU:HD12	2:B:269:GLN:H	1.58	0.69
6:C:1080:LEU:HD12	6:C:1081:ALA:N	2.08	0.69
6:C:1593:VAL:O	6:C:1597:LEU:N	2.17	0.69
6:C:2386:LEU:HB3	6:C:2387:PRO:HD3	1.74	0.69
6:C:3190:LEU:HG	6:C:3231:ILE:HD11	1.75	0.69
6:C:3320:ILE:O	6:C:3324:ARG:HG2	1.93	0.69
6:C:367:GLY:HA2	6:C:370:ALA:HB3	1.75	0.69
6:C:393:LYS:O	6:C:396:PHE:N	2.26	0.69
6:C:568:PHE:CD1	6:C:610:ALA:HA	2.28	0.69
6:C:734:LEU:HA	6:C:737:PRO:HG2	1.75	0.69
6:C:797:ASP:CB	6:C:870:LEU:H	2.06	0.69
6:C:1493:PRO:HB2	6:C:1495:ASP:HB2	1.74	0.69
6:C:1992:VAL:HA	6:C:1995:GLU:HB3	1.75	0.69
6:C:2808:LEU:HB2	6:C:2809:PHE:CD1	2.27	0.69
6:C:658:THR:HA	6:C:733:LEU:HD22	1.74	0.68
6:C:2068:ARG:NH2	6:C:2128:PHE:O	2.26	0.68
6:C:2152:ASN:O	6:C:2155:GLU:HB2	1.93	0.68
6:C:2382:VAL:O	6:C:2404:ARG:NH1	2.26	0.68
6:C:3156:PRO:HA	6:C:3160:LEU:H	1.56	0.68
6:C:3524:ASN:HA	6:C:3527:GLN:HB2	1.74	0.68
6:C:4002:MET:HA	6:C:4005:PHE:HB3	1.75	0.68
1:A:368:VAL:H	1:A:434:LEU:HD11	1.57	0.68
4:D:-14:DA:H61	5:E:51:DA:H2	1.40	0.68
5:E:50:DT:H2"	5:E:51:DA:C8	2.28	0.68
6:C:616:LYS:HB3	6:C:617:PRO:HD3	1.74	0.68
6:C:796:LEU:O	6:C:800:LEU:N	2.26	0.68
6:C:1141:LYS:HG3	6:C:1179:PRO:HB3	1.75	0.68
6:C:1903:SER:O	6:C:1906:THR:OG1	2.10	0.68
6:C:2037:SER:O	6:C:2041:SER:HB3	1.93	0.68
6:C:2307:MET:HA	6:C:2315:VAL:HB	1.74	0.68
6:C:3475:TYR:HB3	6:C:3478:GLU:HB3	1.75	0.68
6:C:3558:ILE:HA	6:C:3561:LYS:HD3	1.75	0.68
1:A:419:GLU:O	1:A:426:GLN:NE2	2.27	0.68
2:B:368:ARG:HB2	2:B:371:GLU:HG3	1.73	0.68
6:C:158:GLY:O	6:C:162:LEU:HB2	1.92	0.68
6:C:220:LEU:HD13	6:C:248:ILE:HG23	1.76	0.68
6:C:2537:ASP:O	6:C:2540:LEU:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3107:ILE:HA	6:C:3110:PHE:CE2	2.28	0.68
6:C:3521:ILE:HG12	6:C:3525:TYR:CE2	2.29	0.68
6:C:3630:ARG:H	6:C:3633:ILE:HD12	1.58	0.68
1:A:396:ALA:O	1:A:413:LEU:HB2	1.94	0.68
6:C:716:VAL:O	6:C:719:LYS:N	2.26	0.68
6:C:901:MET:HG3	6:C:903:PRO:HD3	1.75	0.68
6:C:1681:ASP:OD1	6:C:1682:THR:N	2.26	0.68
6:C:2270:ASN:OD1	6:C:2271:SER:N	2.26	0.68
1:A:414:VAL:HG23	1:A:435:VAL:HG21	1.76	0.68
2:B:247:TRP:HE1	2:B:398:ASP:H	1.41	0.68
2:B:264:TYR:CB	2:B:363:LYS:O	2.34	0.68
2:B:402:ASN:ND2	5:E:29:DT:O3'	2.27	0.68
6:C:2025:MET:HB3	6:C:2028:LEU:HD12	1.75	0.68
6:C:3118:ASP:OD1	6:C:3119:VAL:N	2.25	0.68
6:C:90:CYS:SG	6:C:136:GLN:NE2	2.65	0.68
6:C:1453:SER:HA	6:C:1456:LYS:HE2	1.76	0.68
6:C:3024:PRO:HA	6:C:3027:LEU:HB2	1.75	0.68
6:C:3759:ARG:HD3	6:C:4011:PHE:HE2	1.57	0.68
1:A:243:LEU:O	1:A:247:ARG:NH1	2.27	0.68
6:C:553:VAL:O	6:C:556:SER:OG	2.06	0.68
6:C:850:GLU:O	6:C:853:ILE:HB	1.93	0.68
6:C:1979:GLU:HA	6:C:1982:ILE:HB	1.75	0.68
6:C:2398:LEU:HB2	6:C:2432:GLN:HG2	1.73	0.68
6:C:3179:TRP:HE1	6:C:3245:SER:HB3	1.59	0.68
1:A:74:LYS:HG3	1:A:83:LEU:HD11	1.76	0.68
1:A:290:ARG:NH2	2:B:307:LYS:O	2.25	0.68
2:B:400:ARG:HD2	4:D:9:DG:H2'	1.75	0.68
6:C:339:GLN:HA	6:C:342:MET:HB2	1.75	0.68
6:C:2887:PRO:HB3	6:C:2922:ARG:HH11	1.59	0.68
6:C:3277:VAL:HA	6:C:3280:TYR:CD2	2.28	0.68
6:C:3348:LEU:O	6:C:3351:ILE:N	2.27	0.68
6:C:3413:TYR:HB3	6:C:3449:LYS:HG2	1.76	0.68
1:A:416:GLN:OE1	1:A:417:GLU:N	2.27	0.68
5:E:47:DT:C6	5:E:48:DT:H72	2.28	0.68
6:C:462:VAL:HA	6:C:465:PHE:CD2	2.26	0.68
6:C:1724:MET:O	6:C:1727:ARG:N	2.27	0.68
6:C:1808:ASP:HB2	6:C:1812:LEU:HD12	1.76	0.68
6:C:2242:VAL:HA	6:C:2245:TRP:CD1	2.29	0.68
6:C:2314:GLU:HA	6:C:2316:TYR:HE2	1.59	0.68
6:C:3751:LEU:HG	6:C:3752:VAL:H	1.57	0.68
1:A:71:TYR:HA	1:A:83:LEU:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ASP:OD2	1:A:115:ARG:NH2	2.27	0.68
1:A:350:PHE:H	2:B:463:LEU:HG	1.59	0.68
4:D:-4:DA:O3'	6:C:169:THR:HG21	1.94	0.68
6:C:938:VAL:O	6:C:941:MET:HG2	1.94	0.68
6:C:1637:SER:HB2	6:C:1638:PRO:HD3	1.76	0.68
6:C:2462:VAL:O	6:C:2470:ARG:NE	2.27	0.68
6:C:3480:LEU:HA	6:C:3516:HIS:HD1	1.59	0.68
6:C:3880:ALA:HB1	6:C:3884:LYS:HZ1	1.59	0.68
6:C:108:LYS:HB3	6:C:153:PHE:CE2	2.22	0.67
6:C:770:LEU:HA	6:C:773:LEU:HG	1.76	0.67
6:C:1006:THR:O	6:C:1009:LEU:HB3	1.94	0.67
6:C:1148:ALA:O	6:C:1151:ARG:N	2.27	0.67
6:C:3001:CYS:HA	6:C:3004:HIS:HB3	1.77	0.67
6:C:3498:TRP:HB2	6:C:3501:HIS:CD2	2.29	0.67
6:C:4038:TRP:CZ3	6:C:4040:PRO:HG3	2.29	0.67
2:B:369:ASP:H	2:B:371:GLU:HG3	1.58	0.67
6:C:414:LEU:HD23	6:C:460:ALA:HB1	1.75	0.67
6:C:969:LEU:HB3	6:C:970:LEU:HD12	1.77	0.67
6:C:1677:SER:O	6:C:1680:ALA:N	2.26	0.67
6:C:1725:GLN:NE2	6:C:1754:GLN:OE1	2.26	0.67
6:C:2122:LEU:HG	6:C:2127:LYS:HD2	1.76	0.67
6:C:3085:GLU:HA	6:C:3088:LEU:HB2	1.76	0.67
2:B:44:ARG:O	2:B:48:ALA:N	2.27	0.67
4:D:13:DT:O4'	5:E:24:DG:N2	2.27	0.67
6:C:137:THR:O	6:C:141:SER:OG	2.08	0.67
6:C:347:GLY:O	6:C:351:ASN:HB2	1.95	0.67
6:C:670:LEU:O	6:C:674:VAL:N	2.23	0.67
6:C:1049:GLN:HB3	6:C:1056:THR:HG21	1.76	0.67
6:C:1358:LEU:HD22	6:C:1361:LYS:HE2	1.76	0.67
6:C:3447:VAL:HA	6:C:3465:PHE:CZ	2.30	0.67
6:C:3500:SER:HB2	6:C:3762:GLN:NE2	2.08	0.67
6:C:3634:GLN:HA	6:C:3638:LYS:HE2	1.76	0.67
6:C:3778:ASP:OD2	6:C:3781:CYS:N	2.26	0.67
6:C:4104:VAL:O	6:C:4108:MET:HG2	1.94	0.67
6:C:4127:TRP:CZ3	6:C:4128:MET:HB2	2.29	0.67
1:A:89:GLY:HA2	1:A:141:TYR:HB3	1.77	0.67
1:A:317:LYS:HG3	1:A:330:GLU:HA	1.75	0.67
2:B:299:ASP:OD1	2:B:300:ASP:N	2.28	0.67
4:D:-6:DT:C2	4:D:-5:DT:N3	2.63	0.67
6:C:1153:LEU:HB2	6:C:1154:PRO:HD3	1.77	0.67
6:C:2101:VAL:O	6:C:2105:HIS:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2114:GLU:HB3	6:C:2155:GLU:HG2	1.75	0.67
6:C:2196:TRP:CG	6:C:2199:LEU:HB2	2.30	0.67
6:C:2459:VAL:HA	6:C:2462:VAL:HG12	1.74	0.67
6:C:2791:ILE:O	6:C:2795:GLN:HG3	1.95	0.67
1:A:302:THR:O	1:A:311:LEU:N	2.28	0.67
6:C:153:PHE:HB3	6:C:157:TYR:CE2	2.30	0.67
6:C:1342:MET:HA	6:C:1345:THR:HB	1.76	0.67
6:C:2276:LEU:HD11	6:C:2280:VAL:HG23	1.77	0.67
6:C:2361:ILE:O	6:C:2364:LEU:N	2.28	0.67
6:C:2943:PHE:CZ	6:C:2986:PRO:HG2	2.29	0.67
6:C:3467:ARG:NH2	6:C:4000:ASN:OD1	2.27	0.67
1:A:318:ARG:CZ	2:B:278:VAL:HG13	2.25	0.67
2:B:316:TYR:O	2:B:319:ASP:N	2.27	0.67
6:C:1165:LEU:HB3	6:C:1169:VAL:HG23	1.76	0.67
6:C:1352:SER:O	6:C:1354:GLU:N	2.27	0.67
6:C:2117:SER:HB2	6:C:2157:PHE:HB3	1.76	0.67
6:C:3141:PHE:O	6:C:3145:ILE:HG12	1.95	0.67
2:B:465:LYS:O	2:B:473:LEU:HA	1.95	0.67
6:C:2395:THR:O	6:C:2399:GLU:N	2.13	0.67
6:C:3084:GLN:OE1	6:C:3087:SER:OG	2.05	0.67
6:C:3301:LEU:HD13	6:C:3328:ILE:HG21	1.76	0.67
6:C:3581:PRO:O	6:C:3584:LEU:N	2.28	0.67
1:A:353:LEU:HB2	1:A:393:GLU:HG2	1.76	0.67
6:C:533:HIS:O	6:C:537:SER:N	2.25	0.67
6:C:910:PHE:O	6:C:913:ARG:N	2.28	0.67
6:C:1072:ALA:HB3	6:C:1075:ARG:HG2	1.76	0.67
6:C:1329:ARG:O	6:C:1333:SER:CB	2.42	0.67
6:C:1814:PHE:CZ	6:C:1818:SER:HA	2.30	0.67
6:C:2097:LEU:O	6:C:2100:LEU:HB3	1.94	0.67
6:C:3336:ILE:HG23	6:C:3339:ASN:H	1.60	0.67
6:C:4069:GLU:HB3	6:C:4070:LYS:HG3	1.76	0.67
1:A:40:PHE:CD2	1:A:67:ILE:HG23	2.29	0.67
6:C:152:LEU:HA	6:C:155:LYS:HE2	1.75	0.67
6:C:2060:ARG:HB3	6:C:2061:PRO:HD3	1.75	0.67
6:C:2458:VAL:HG12	6:C:2459:VAL:HG23	1.77	0.67
6:C:2553:HIS:O	6:C:2556:SER:OG	2.10	0.67
6:C:3192:LYS:HA	6:C:3195:GLU:HG2	1.76	0.67
2:B:31:PHE:CZ	2:B:100:PRO:HB3	2.30	0.67
2:B:249:CYS:SG	2:B:250:ARG:N	2.66	0.67
6:C:1403:MET:HA	6:C:1406:LEU:HD12	1.75	0.67
6:C:2538:ARG:NH1	6:C:2565:MET:SD	2.68	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3004:HIS:O	6:C:3046:ARG:NE	2.28	0.67
6:C:3141:PHE:HA	6:C:3144:PHE:CE2	2.30	0.67
6:C:3420:CYS:O	6:C:3423:GLN:N	2.28	0.67
6:C:3493:TRP:CH2	6:C:3714:GLU:HB2	2.30	0.67
6:C:3498:TRP:O	6:C:3501:HIS:HB2	1.94	0.67
2:B:453:ALA:HB3	2:B:532:LYS:HZ2	1.59	0.66
6:C:1265:GLU:HA	6:C:1268:ASN:ND2	2.11	0.66
6:C:1566:THR:OG1	6:C:1570:GLU:OE2	2.10	0.66
6:C:1890:HIS:CG	6:C:1937:ARG:HA	2.30	0.66
6:C:2916:LEU:O	6:C:2919:ASP:N	2.28	0.66
6:C:3124:SER:O	6:C:3128:LYS:NZ	2.19	0.66
1:A:143:LEU:HD12	1:A:144:SER:N	2.10	0.66
5:E:45:DG:H5'	6:C:260:ILE:HD12	1.76	0.66
6:C:377:ASN:ND2	6:C:423:TYR:OH	2.28	0.66
6:C:560:LEU:HD22	6:C:616:LYS:HE2	1.77	0.66
6:C:566:ASP:OD1	6:C:1806:ARG:NH2	2.27	0.66
6:C:1963:GLN:O	6:C:1967:PHE:N	2.29	0.66
6:C:2314:GLU:HA	6:C:2316:TYR:CE2	2.30	0.66
6:C:2371:PHE:CD2	6:C:2372:PRO:HA	2.30	0.66
6:C:3104:GLN:HA	6:C:3107:ILE:HD12	1.77	0.66
6:C:3502:MET:O	6:C:3506:LEU:N	2.27	0.66
6:C:3613:MET:O	6:C:3617:LEU:N	2.22	0.66
2:B:533:ILE:HA	2:B:537:PHE:CD2	2.30	0.66
4:D:8:DT:H2''	4:D:9:DG:C8	2.30	0.66
6:C:263:LYS:HE2	6:C:264:ARG:HH12	1.59	0.66
6:C:559:SER:HA	6:C:562:HIS:HD2	1.59	0.66
6:C:640:GLU:O	6:C:644:PRO:HD3	1.95	0.66
6:C:2139:PRO:O	6:C:2143:ARG:HG3	1.95	0.66
6:C:3084:GLN:O	6:C:3088:LEU:N	2.27	0.66
6:C:3708:ARG:NH2	6:C:3792:SER:OG	2.28	0.66
6:C:3866:GLU:O	6:C:3869:THR:OG1	2.13	0.66
6:C:4041:ARG:O	6:C:4045:CYS:N	2.25	0.66
1:A:317:LYS:HG2	1:A:318:ARG:H	1.61	0.66
6:C:1135:CYS:HA	6:C:1138:ILE:HB	1.77	0.66
5:E:31:DA:H3'	5:E:32:DT:H71	1.77	0.66
6:C:28:ALA:O	6:C:32:HIS:ND1	2.28	0.66
6:C:1052:SER:OG	6:C:1055:ASN:HB2	1.96	0.66
6:C:1963:GLN:HA	6:C:1966:LEU:HB2	1.78	0.66
6:C:2073:ASP:HA	6:C:2076:VAL:HG22	1.75	0.66
6:C:2251:ILE:HA	6:C:2253:TYR:CE2	2.30	0.66
6:C:2526:SER:HA	6:C:2530:ARG:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3268:THR:H	6:C:3271:ASP:HB2	1.60	0.66
1:A:40:PHE:HE2	1:A:71:TYR:HB2	1.61	0.66
2:B:385:ASP:OD1	2:B:386:ASP:N	2.29	0.66
2:B:484:ASN:H	2:B:487:PHE:HZ	1.43	0.66
4:D:-5:DT:C2	4:D:-4:DA:C8	2.83	0.66
6:C:16:GLN:O	6:C:20:SER:CB	2.43	0.66
6:C:82:ARG:NH1	6:C:114:VAL:HG13	2.11	0.66
6:C:2507:ILE:HA	6:C:2522:ARG:HH21	1.59	0.66
6:C:2960:GLU:OE2	6:C:2963:SER:N	2.22	0.66
6:C:2998:SER:HB3	6:C:3002:TYR:OH	1.95	0.66
6:C:3584:LEU:HB3	6:C:3617:LEU:HD11	1.77	0.66
6:C:3842:TRP:CE2	6:C:3867:THR:HG21	2.30	0.66
6:C:3864:ARG:HH12	6:C:4077:TYR:HB2	1.60	0.66
1:A:80:ARG:NH1	4:D:-1:DA:O3'	2.28	0.66
6:C:1083:ASN:HA	6:C:1086:TYR:HD2	1.60	0.66
6:C:1100:VAL:O	6:C:1104:LEU:HB2	1.96	0.66
6:C:1457:GLN:O	6:C:1461:ALA:HB3	1.96	0.66
6:C:2482:ASP:OD1	6:C:2485:ARG:NH2	2.29	0.66
6:C:2484:TYR:CZ	6:C:2498:ILE:HG21	2.30	0.66
6:C:3493:TRP:HE1	6:C:3710:LYS:N	1.93	0.66
6:C:3495:PHE:HA	6:C:3498:TRP:CH2	2.31	0.66
6:C:3500:SER:O	6:C:3503:VAL:HG12	1.95	0.66
6:C:3983:ILE:HA	6:C:3986:HIS:ND1	2.11	0.66
6:C:4095:GLU:HG3	6:C:4098:LEU:H	1.61	0.66
1:A:35:ARG:HD2	1:A:80:ARG:HB2	1.78	0.66
1:A:127:GLY:O	1:A:131:PHE:CB	2.44	0.66
1:A:244:ARG:NH2	1:A:505:ASP:OD1	2.29	0.66
6:C:1121:LEU:HG	6:C:1122:GLY:H	1.60	0.66
6:C:1238:GLN:HA	6:C:1298:LEU:HD21	1.78	0.66
6:C:2522:ARG:NH1	6:C:2526:SER:HG	1.94	0.66
6:C:3160:LEU:HD11	6:C:3193:ILE:HD13	1.78	0.66
6:C:3649:SER:O	6:C:3653:ARG:HG2	1.95	0.66
6:C:3733:ARG:HH22	6:C:3756:GLU:HB3	1.61	0.66
6:C:4001:THR:O	6:C:4005:PHE:CB	2.43	0.66
6:C:4109:ASP:O	6:C:4112:THR:HG22	1.95	0.66
2:B:315:ARG:HA	2:B:320:ILE:HA	1.78	0.66
2:B:510:GLN:O	2:B:514:ASN:N	2.17	0.66
6:C:246:ARG:CZ	6:C:286:LEU:HD12	2.26	0.66
6:C:994:TRP:O	6:C:998:ASN:ND2	2.27	0.66
6:C:1170:LYS:HG2	6:C:1267:TYR:HB2	1.77	0.66
6:C:1228:GLY:H	6:C:1287:GLN:NE2	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1869:LYS:HA	6:C:1873:TYR:CE2	2.30	0.66
6:C:2052:TYR:HA	6:C:2055:SER:OG	1.95	0.66
6:C:2940:ARG:HD2	6:C:3975:LYS:HD3	1.77	0.66
6:C:2962:ARG:CA	6:C:3003:ASN:HD21	1.99	0.66
6:C:3700:GLU:HG3	6:C:3718:ARG:HG2	1.77	0.66
1:A:50:GLU:OE1	1:A:50:GLU:N	2.23	0.66
1:A:239:LEU:HD12	1:A:242:LEU:HB2	1.77	0.66
2:B:384:LEU:HA	2:B:389:MET:HB2	1.78	0.66
4:D:-5:DT:H2'	4:D:-4:DA:C8	2.29	0.66
6:C:886:TRP:NE1	6:C:889:GLU:HB2	2.10	0.66
6:C:1977:ILE:HB	6:C:1980:ASN:HB2	1.77	0.66
6:C:2341:LEU:HD12	6:C:2344:LEU:HD12	1.78	0.66
6:C:3078:LEU:HA	6:C:3081:HIS:ND1	2.10	0.66
6:C:3298:LEU:HG	6:C:3302:LYS:HG3	1.77	0.66
6:C:3818:ASN:OD1	6:C:3819:THR:N	2.29	0.66
6:C:856:VAL:HA	6:C:859:LEU:HD12	1.78	0.65
6:C:1072:ALA:HB1	6:C:1074:LYS:HG3	1.78	0.65
6:C:2208:ASP:O	6:C:2211:LEU:N	2.28	0.65
6:C:2861:ILE:HG21	6:C:2888:VAL:HG23	1.77	0.65
6:C:3619:ASP:HB3	6:C:3622:ALA:HB2	1.78	0.65
6:C:3813:LYS:HD2	6:C:3816:LEU:HD23	1.78	0.65
6:C:4113:ASP:O	6:C:4117:LEU:N	2.29	0.65
1:A:65:GLN:HG3	1:A:123:LYS:HE2	1.77	0.65
1:A:168:LEU:HB2	1:A:200:LEU:HD11	1.77	0.65
1:A:202:LEU:H	1:A:221:ILE:HG22	1.60	0.65
1:A:352:PRO:HD2	2:B:464:ALA:HB3	1.78	0.65
6:C:78:PHE:HA	6:C:81:CYS:HB2	1.77	0.65
6:C:90:CYS:HB2	6:C:136:GLN:HG3	1.79	0.65
6:C:290:TYR:HH	6:C:294:PHE:HD1	1.44	0.65
6:C:441:MET:O	6:C:445:SER:HB2	1.95	0.65
6:C:1001:PHE:CE1	6:C:1002:GLU:HG3	2.32	0.65
6:C:1062:ARG:HG3	6:C:1063:LEU:HG	1.79	0.65
6:C:1172:LEU:O	6:C:1176:CYS:N	2.28	0.65
6:C:2047:THR:O	6:C:2050:GLN:N	2.28	0.65
6:C:2121:ASP:HA	6:C:2126:MET:HB2	1.77	0.65
6:C:2317:ALA:HA	6:C:2320:ALA:HB3	1.78	0.65
6:C:2379:MET:O	6:C:2382:VAL:N	2.29	0.65
6:C:3297:VAL:HG13	6:C:3298:LEU:H	1.61	0.65
6:C:3480:LEU:O	6:C:3484:THR:OG1	2.15	0.65
1:A:254:ARG:HH22	4:D:1:DG:H4'	1.61	0.65
2:B:253:ILE:N	2:B:257:LEU:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:373:CYS:H	6:C:375:VAL:HG23	1.61	0.65
6:C:1010:LEU:HA	6:C:1013:ILE:HG12	1.78	0.65
6:C:1340:ARG:HA	6:C:1343:GLU:CG	2.22	0.65
6:C:3592:VAL:HG22	6:C:3606:ILE:HG23	1.78	0.65
6:C:3631:LYS:HZ3	6:C:3686:TRP:HD1	1.44	0.65
6:C:4030:GLU:O	6:C:4034:ALA:HB2	1.95	0.65
1:A:254:ARG:NE	4:D:0:DT:O3'	2.29	0.65
1:A:361:TYR:CD1	1:A:436:PHE:HZ	2.14	0.65
6:C:70:ARG:HE	6:C:82:ARG:HE	1.44	0.65
6:C:2140:LEU:HA	6:C:2143:ARG:HD2	1.79	0.65
6:C:2185:MET:O	6:C:2189:ILE:HG12	1.97	0.65
6:C:2446:LEU:HB2	6:C:2451:LEU:HD12	1.78	0.65
6:C:2833:THR:HA	6:C:2836:LEU:HD12	1.77	0.65
6:C:2837:LEU:HD22	6:C:2868:LEU:HA	1.78	0.65
6:C:3462:ARG:HG3	6:C:3463:LEU:HG	1.78	0.65
6:C:3772:ASN:HA	6:C:3775:LEU:HG	1.77	0.65
1:A:194:ARG:NE	1:A:222:SER:HA	2.12	0.65
1:A:343:PRO:HG3	1:A:405:ASN:H	1.61	0.65
1:A:430:PRO:HB2	2:B:438:LEU:HD12	1.78	0.65
2:B:184:ARG:HD3	2:B:514:ASN:HB3	1.79	0.65
6:C:249:PHE:CE1	6:C:272:LEU:HG	2.32	0.65
6:C:3121:LEU:N	6:C:3124:SER:HB2	2.11	0.65
6:C:3808:ASN:HB3	6:C:3932:MET:HG2	1.77	0.65
6:C:3999:THR:O	6:C:4003:ASP:CB	2.44	0.65
1:A:398:CYS:SG	1:A:399:ARG:N	2.70	0.65
6:C:891:ARG:NH1	6:C:893:SER:HA	2.11	0.65
6:C:993:HIS:HD2	6:C:1034:ARG:HH22	1.44	0.65
6:C:1974:ASN:HB2	6:C:1984:LEU:HD22	1.78	0.65
2:B:107:PHE:HE2	2:B:140:SER:HB2	1.61	0.65
5:E:44:DA:H2'	5:E:45:DG:C8	2.32	0.65
6:C:87:LYS:HG2	6:C:133:LYS:HE3	1.76	0.65
6:C:177:LEU:HD23	6:C:180:LEU:HD12	1.79	0.65
6:C:355:ASN:HD21	6:C:357:LYS:HE3	1.61	0.65
6:C:913:ARG:NH2	6:C:929:ALA:O	2.30	0.65
6:C:2022:PRO:HG3	6:C:2041:SER:O	1.97	0.65
6:C:2841:ASN:HA	6:C:2844:LEU:HD12	1.79	0.65
2:B:7:LYS:HA	2:B:51:LYS:O	1.96	0.65
2:B:251:LEU:HD13	2:B:340:PHE:CD2	2.32	0.65
3:K:15:ALA:O	3:K:19:ALA:HB2	1.97	0.65
6:C:82:ARG:O	6:C:86:LEU:HB2	1.97	0.65
6:C:131:LEU:O	6:C:135:LEU:HG	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:175:TYR:HE1	6:C:200:PHE:HB3	1.62	0.65
6:C:2943:PHE:HZ	6:C:2986:PRO:HG2	1.62	0.65
6:C:3768:PHE:HB3	6:C:3788:LEU:HD21	1.77	0.65
6:C:3922:ASP:CG	6:C:3941:ASP:HB3	2.16	0.65
1:A:114:LYS:HA	1:A:117:LEU:HB2	1.79	0.65
1:A:317:LYS:HD2	1:A:328:ILE:HG13	1.79	0.65
1:A:319:SER:N	2:B:277:THR:O	2.29	0.65
6:C:1747:LEU:O	6:C:1751:GLU:HB3	1.97	0.65
6:C:1906:THR:O	6:C:1910:GLU:N	2.29	0.65
6:C:2072:ARG:N	6:C:2075:THR:HG1	1.91	0.65
6:C:2139:PRO:O	6:C:2143:ARG:N	2.29	0.65
6:C:2514:ASN:HB2	6:C:2515:PRO:HD3	1.79	0.65
6:C:2568:MET:HG3	6:C:2569:SER:H	1.62	0.65
1:A:115:ARG:NE	1:A:118:GLU:OE2	2.27	0.65
1:A:340:PHE:HE2	2:B:485:PRO:HB3	1.62	0.65
2:B:435:PHE:HZ	2:B:438:LEU:HG	1.62	0.65
2:B:519:PRO:HB2	2:B:521:GLU:OE1	1.96	0.65
5:E:38:DA:H2''	5:E:39:DA:C8	2.31	0.65
6:C:624:ILE:HG22	6:C:659:ARG:NH1	2.12	0.65
6:C:649:PHE:HD1	6:C:656:GLN:HG3	1.60	0.65
6:C:907:LEU:O	6:C:910:PHE:HE2	1.80	0.65
6:C:1045:THR:O	6:C:1049:GLN:HG3	1.97	0.65
6:C:1086:TYR:O	6:C:1090:ARG:N	2.16	0.65
6:C:1135:CYS:O	6:C:1139:GLU:N	2.30	0.65
6:C:2013:GLU:O	6:C:2016:ASN:ND2	2.30	0.65
6:C:2242:VAL:HA	6:C:2245:TRP:HD1	1.60	0.65
6:C:2806:LYS:O	6:C:2809:PHE:N	2.17	0.65
6:C:3114:TYR:O	6:C:3117:ILE:HG22	1.96	0.65
6:C:3988:LEU:HA	6:C:3991:PHE:CD2	2.32	0.65
1:A:302:THR:HB	1:A:311:LEU:HD12	1.78	0.64
2:B:293:THR:HG23	2:B:294:VAL:H	1.62	0.64
6:C:32:HIS:HA	6:C:35:ILE:HD12	1.79	0.64
6:C:1180:GLN:HG3	6:C:1219:PHE:HZ	1.60	0.64
6:C:1459:HIS:CD2	6:C:1464:LEU:HD22	2.32	0.64
6:C:2878:ALA:HB3	6:C:2882:ALA:HB2	1.79	0.64
6:C:3681:LYS:HG2	6:C:3724:GLU:HB3	1.78	0.64
1:A:301:ARG:HB3	6:C:163:LYS:HD2	1.79	0.64
1:A:471:PHE:CE2	2:B:344:GLY:HA3	2.32	0.64
6:C:888:ARG:NH2	6:C:3892:THR:HA	2.11	0.64
6:C:959:TYR:CE2	6:C:963:LYS:HE3	2.32	0.64
6:C:1058:SER:HA	6:C:1061:LYS:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1459:HIS:HD2	6:C:1464:LEU:HD22	1.62	0.64
6:C:2893:LEU:HA	6:C:2897:LEU:HB3	1.79	0.64
6:C:3309:GLU:OE1	6:C:3312:VAL:HG21	1.96	0.64
6:C:3454:LEU:HD21	6:C:3494:GLN:HB3	1.79	0.64
1:A:85:VAL:O	1:A:105:LEU:HB3	1.98	0.64
1:A:126:GLN:OE1	1:A:126:GLN:N	2.30	0.64
6:C:127:ALA:HA	6:C:130:LEU:HD13	1.78	0.64
6:C:992:ILE:HD11	6:C:1034:ARG:HG3	1.78	0.64
6:C:1746:PHE:HA	6:C:1750:LEU:HD13	1.79	0.64
6:C:2363:CYS:O	6:C:2365:ASN:N	2.31	0.64
6:C:2398:LEU:H	6:C:2432:GLN:NE2	1.95	0.64
6:C:2886:GLN:NE2	6:C:2921:LEU:O	2.29	0.64
6:C:3239:LYS:HG3	6:C:3243:ILE:HD11	1.79	0.64
6:C:3949:ALA:HA	6:C:3952:PHE:CE2	2.33	0.64
1:A:70:VAL:O	1:A:73:SER:OG	2.10	0.64
1:A:90:THR:HG22	1:A:91:GLU:H	1.61	0.64
6:C:649:PHE:CE1	6:C:652:GLU:HA	2.32	0.64
6:C:963:LYS:HB3	6:C:1009:LEU:HD13	1.78	0.64
6:C:2062:ALA:HA	6:C:2125:TRP:HB2	1.80	0.64
6:C:2299:TYR:O	6:C:2303:LEU:HG	1.97	0.64
6:C:3167:ARG:O	6:C:3241:LYS:NZ	2.29	0.64
6:C:4095:GLU:O	6:C:4099:SER:OG	2.15	0.64
1:A:144:SER:HB2	1:A:185:ARG:HG2	1.80	0.64
2:B:402:ASN:HD21	5:E:30:DA:P	2.21	0.64
2:B:495:LEU:O	2:B:499:LEU:HB2	1.96	0.64
6:C:445:SER:OG	6:C:1821:ASP:OD2	2.16	0.64
6:C:1064:TYR:O	6:C:1067:ALA:HB3	1.98	0.64
6:C:1129:ASP:O	6:C:1133:HIS:ND1	2.31	0.64
6:C:1282:LEU:HB3	6:C:1287:GLN:HB2	1.78	0.64
6:C:2207:LYS:C	6:C:2209:GLU:H	1.99	0.64
6:C:2510:LEU:HB2	6:C:2522:ARG:NH2	2.12	0.64
6:C:3045:ILE:O	6:C:3048:LYS:NZ	2.23	0.64
6:C:3108:GLN:O	6:C:3111:MET:HB2	1.96	0.64
6:C:3532:PRO:HA	6:C:3535:ILE:HD11	1.78	0.64
6:C:3611:GLU:O	6:C:3615:ALA:CB	2.44	0.64
1:A:113:ALA:HA	1:A:116:ILE:HD12	1.80	0.64
1:A:279:LYS:HG3	1:A:279:LYS:O	1.98	0.64
2:B:441:SER:O	2:B:444:TYR:N	2.24	0.64
6:C:348:ILE:HA	6:C:351:ASN:HB3	1.80	0.64
6:C:484:HIS:O	6:C:487:LEU:HB3	1.98	0.64
6:C:960:GLN:HG2	6:C:961:LEU:HD12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:962:TYR:O	6:C:965:THR:OG1	2.11	0.64
6:C:1759:LEU:HD23	6:C:1936:ARG:HH12	1.62	0.64
6:C:2122:LEU:HA	6:C:2127:LYS:HD2	1.80	0.64
6:C:2233:HIS:HA	6:C:2236:GLU:CD	2.18	0.64
6:C:2386:LEU:CD1	6:C:2401:VAL:HA	2.28	0.64
6:C:2780:LEU:O	6:C:2784:GLN:N	2.31	0.64
1:A:370:PRO:HG2	1:A:382:PHE:CE1	2.33	0.64
3:K:25:ALA:HB1	6:C:2194:LEU:HD23	1.80	0.64
6:C:716:VAL:HA	6:C:719:LYS:HD2	1.80	0.64
6:C:1329:ARG:HD3	6:C:1332:TYR:CD2	2.33	0.64
6:C:1418:HIS:O	6:C:1421:GLU:HB2	1.98	0.64
6:C:1935:GLU:HB3	6:C:1986:ARG:NH1	2.12	0.64
6:C:2470:ARG:HD2	6:C:2474:TYR:HE2	1.62	0.64
6:C:2979:GLN:OE1	6:C:2979:GLN:N	2.29	0.64
6:C:3923:ARG:NH2	6:C:3941:ASP:H	1.95	0.64
6:C:4019:LYS:O	6:C:4022:LYS:N	2.31	0.64
3:K:15:ALA:O	3:K:19:ALA:CB	2.46	0.64
6:C:1105:VAL:O	6:C:1108:MET:N	2.31	0.64
6:C:1135:CYS:HB2	6:C:1175:HIS:NE2	2.13	0.64
6:C:2280:VAL:O	6:C:2283:ASN:ND2	2.27	0.64
6:C:3293:CYS:SG	6:C:3294:SER:N	2.69	0.64
6:C:3316:LEU:HD21	6:C:3403:CYS:HA	1.78	0.64
6:C:3322:ALA:O	6:C:3325:ASP:HB3	1.98	0.64
6:C:3748:HIS:HB3	6:C:3750:PHE:CE2	2.32	0.64
6:C:3821:SER:OG	6:C:3829:LEU:N	2.30	0.64
6:C:4113:ASP:CG	6:C:4115:ASN:HB3	2.18	0.64
1:A:82:LEU:HG	1:A:109:ASP:C	2.18	0.64
4:D:1:DG:C2	5:E:36:DA:C2	2.86	0.64
4:D:6:DT:H2'	4:D:7:DA:H8	1.63	0.64
6:C:249:PHE:O	6:C:252:VAL:HG12	1.98	0.64
6:C:850:GLU:HB3	6:C:854:ARG:NH1	2.13	0.64
6:C:1549:SER:HA	6:C:1553:PHE:HD2	1.63	0.64
6:C:1569:THR:HA	6:C:1572:LEU:HD12	1.79	0.64
6:C:1693:VAL:HG13	6:C:1696:LEU:HD12	1.79	0.64
6:C:1934:LEU:H	6:C:1937:ARG:HD3	1.62	0.64
6:C:2180:GLU:HB2	6:C:2184:TYR:CZ	2.33	0.64
6:C:2383:PHE:HA	6:C:2404:ARG:CZ	2.28	0.64
6:C:2430:GLU:O	6:C:2433:LYS:N	2.31	0.64
6:C:2515:PRO:HD2	6:C:2518:GLN:NE2	2.13	0.64
1:A:39:ILE:HA	1:A:84:ALA:HB3	1.80	0.64
1:A:304:ASN:N	1:A:309:GLY:O	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:65:ASP:H	2:B:78:THR:HA	1.63	0.64
2:B:467:ASP:OD1	2:B:468:GLU:N	2.31	0.64
6:C:175:TYR:CE1	6:C:200:PHE:HB3	2.32	0.64
6:C:746:ARG:N	6:C:748:TYR:HE2	1.93	0.64
6:C:1224:PHE:CD2	6:C:1278:ALA:HB1	2.33	0.64
6:C:2148:LYS:HA	6:C:2151:ILE:HB	1.80	0.64
6:C:2222:HIS:CE1	6:C:2226:PRO:HG2	2.33	0.64
6:C:2397:CYS:HA	6:C:2401:VAL:HG23	1.79	0.64
6:C:3610:TYR:OH	6:C:3651:LEU:O	2.16	0.64
6:C:3621:LYS:HZ2	6:C:3638:LYS:HB3	1.62	0.64
6:C:3763:ARG:NH1	6:C:4005:PHE:O	2.32	0.64
1:A:68:GLN:O	1:A:72:ILE:HB	1.98	0.63
1:A:392:LYS:NZ	2:B:458:ILE:HG22	2.13	0.63
6:C:337:LYS:HA	6:C:340:TYR:CD2	2.33	0.63
6:C:399:GLN:HG2	6:C:405:ASP:CB	2.27	0.63
6:C:584:GLU:HG2	6:C:586:GLN:H	1.63	0.63
6:C:2066:PHE:HE1	6:C:2128:PHE:HD1	1.43	0.63
6:C:2146:LEU:O	6:C:2149:LEU:HB2	1.97	0.63
6:C:2156:VAL:HG23	6:C:2160:TYR:CZ	2.33	0.63
6:C:2415:LEU:O	6:C:2418:LYS:N	2.27	0.63
6:C:2510:LEU:HD12	6:C:2522:ARG:HG3	1.78	0.63
6:C:3086:LEU:HD21	6:C:3102:TYR:HD1	1.61	0.63
6:C:3947:GLY:O	6:C:3951:GLN:CB	2.46	0.63
1:A:103:TYR:OH	1:A:135:MET:O	2.07	0.63
2:B:409:PHE:CD1	2:B:410:PRO:HD2	2.34	0.63
6:C:480:SER:O	6:C:483:VAL:HG22	1.98	0.63
6:C:741:ILE:O	6:C:744:ASP:N	2.32	0.63
6:C:741:ILE:HG13	6:C:745:VAL:CG2	2.28	0.63
6:C:772:ALA:O	6:C:775:GLU:N	2.31	0.63
6:C:1135:CYS:HB2	6:C:1175:HIS:CD2	2.33	0.63
6:C:1597:LEU:HA	6:C:1600:MET:SD	2.38	0.63
6:C:2463:SER:HA	6:C:2470:ARG:NH2	2.13	0.63
6:C:3061:LEU:O	6:C:3065:ILE:HB	1.98	0.63
6:C:3815:LEU:O	6:C:3819:THR:HG22	1.97	0.63
1:A:325:ARG:HH22	2:B:498:ALA:HB1	1.63	0.63
1:A:447:PRO:HA	2:B:243:HIS:HD2	1.62	0.63
6:C:789:TYR:OH	6:C:790:LYS:HE3	1.99	0.63
6:C:1482:GLU:O	6:C:1485:SER:N	2.32	0.63
6:C:1602:ASP:OD1	6:C:1605:PHE:HD2	1.81	0.63
6:C:1870:LYS:NZ	6:C:1888:ASP:OD2	2.31	0.63
6:C:2160:TYR:HA	6:C:2163:HIS:HD2	1.59	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2962:ARG:HH21	6:C:3254:LEU:HG	1.62	0.63
6:C:2975:ALA:O	6:C:2978:LYS:HG2	1.98	0.63
6:C:3897:PHE:O	6:C:3900:LEU:HB2	1.99	0.63
6:C:3978:GLY:O	6:C:3981:TYR:N	2.32	0.63
1:A:410:PHE:HB2	1:A:439:PHE:CZ	2.33	0.63
1:A:413:LEU:HD23	1:A:434:LEU:HA	1.80	0.63
6:C:114:VAL:HG12	6:C:134:LEU:HD11	1.81	0.63
6:C:321:LYS:HG2	6:C:325:ASN:HD21	1.63	0.63
6:C:760:LEU:HD23	6:C:764:PRO:HA	1.79	0.63
6:C:987:LEU:O	6:C:990:GLN:HG2	1.99	0.63
6:C:2243:GLU:O	6:C:2246:LYS:NZ	2.24	0.63
6:C:2970:LYS:O	6:C:2974:GLU:HB3	1.99	0.63
1:A:353:LEU:N	1:A:393:GLU:O	2.23	0.63
2:B:202:LYS:HG3	2:B:205:LEU:HD23	1.80	0.63
2:B:467:ASP:HB3	2:B:474:GLU:HG2	1.80	0.63
6:C:492:SER:HA	6:C:494:PRO:HD3	1.81	0.63
6:C:705:ALA:O	6:C:708:VAL:HB	1.97	0.63
6:C:959:TYR:HE2	6:C:963:LYS:HE3	1.63	0.63
6:C:1406:LEU:HD22	6:C:1414:ILE:HG21	1.81	0.63
6:C:2187:VAL:O	6:C:2191:ALA:HB2	1.96	0.63
6:C:2361:ILE:HG12	6:C:2385:LEU:HD23	1.80	0.63
6:C:3309:GLU:O	6:C:3312:VAL:HG22	1.97	0.63
6:C:3571:PHE:CE1	6:C:3691:LYS:HE3	2.33	0.63
6:C:3631:LYS:HA	6:C:3634:GLN:HB3	1.81	0.63
6:C:3812:LEU:HD12	6:C:3813:LYS:N	2.14	0.63
6:C:3868:VAL:O	6:C:3872:ARG:HB2	1.98	0.63
1:A:367:PHE:CZ	1:A:431:GLY:HA3	2.33	0.63
2:B:400:ARG:HH11	4:D:9:DG:H5"	1.63	0.63
6:C:495:VAL:HG22	6:C:527:TYR:CD2	2.31	0.63
6:C:649:PHE:O	6:C:651:TYR:N	2.31	0.63
6:C:963:LYS:O	6:C:967:PRO:HD2	1.99	0.63
6:C:1141:LYS:HE3	6:C:1179:PRO:HB3	1.81	0.63
6:C:1458:LEU:HD11	6:C:1467:ILE:HD12	1.80	0.63
6:C:2022:PRO:O	6:C:2069:ARG:NE	2.31	0.63
6:C:2252:PRO:O	6:C:2256:ILE:HG13	1.98	0.63
6:C:2307:MET:HB3	6:C:2348:GLN:HE22	1.63	0.63
6:C:3134:ALA:HA	6:C:3137:GLU:OE1	1.99	0.63
6:C:3882:LEU:HA	6:C:3885:ARG:HB3	1.80	0.63
6:C:3984:MET:O	6:C:3987:ALA:HB3	1.99	0.63
6:C:4005:PHE:HD2	6:C:4006:VAL:HG13	1.63	0.63
1:A:51:SER:HA	1:A:58:THR:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:37:VAL:HG11	2:B:230:SER:HB3	1.79	0.63
2:B:351:VAL:HG12	2:B:356:PHE:HE1	1.64	0.63
5:E:32:DT:H2'	5:E:33:DA:C8	2.34	0.63
6:C:59:PHE:HB3	6:C:63:PHE:CZ	2.34	0.63
6:C:346:TYR:CD1	6:C:349:ILE:HD12	2.33	0.63
6:C:1033:ILE:HD12	6:C:1036:PHE:HB2	1.81	0.63
6:C:1082:PHE:O	6:C:1085:ILE:HB	1.98	0.63
6:C:1549:SER:O	6:C:1553:PHE:CB	2.37	0.63
6:C:1561:SER:O	6:C:1564:SER:N	2.32	0.63
6:C:1652:ILE:HG23	6:C:1717:LEU:HD21	1.81	0.63
6:C:2315:VAL:O	6:C:2319:ALA:N	2.26	0.63
6:C:2412:TYR:O	6:C:2414:GLN:N	2.31	0.63
6:C:2890:ILE:HD11	6:C:2921:LEU:HD11	1.78	0.63
6:C:3183:ILE:HG13	6:C:3238:MET:SD	2.39	0.63
6:C:3250:ASN:HA	6:C:3285:HIS:CE1	2.32	0.63
6:C:3483:MET:HA	6:C:3486:GLU:HG3	1.81	0.63
6:C:3528:ALA:O	6:C:3715:TYR:OH	2.14	0.63
1:A:403:ARG:HH21	5:E:36:DA:C1'	2.12	0.63
2:B:348:SER:N	2:B:388:ASP:O	2.32	0.63
6:C:17:GLU:O	6:C:21:ALA:CB	2.45	0.63
6:C:994:TRP:HZ3	6:C:2780:LEU:HG	1.63	0.63
6:C:1017:ILE:HG23	6:C:1018:VAL:H	1.64	0.63
6:C:1468:LEU:HA	6:C:1471:GLN:HB2	1.78	0.63
6:C:1647:ALA:HB1	6:C:1651:LYS:HZ3	1.64	0.63
6:C:2070:GLU:HA	6:C:2071:GLN:C	2.17	0.63
6:C:2382:VAL:CA	6:C:2385:LEU:HB2	2.22	0.63
6:C:2875:ALA:HA	6:C:2878:ALA:O	1.99	0.63
6:C:3011:LEU:O	6:C:3015:SER:OG	2.14	0.63
6:C:3813:LYS:O	6:C:3817:LEU:HG	1.98	0.63
6:C:3916:TRP:HE3	6:C:3917:ILE:HD13	1.64	0.63
1:A:420:LEU:HD22	1:A:424:LYS:HB3	1.81	0.63
2:B:65:ASP:N	2:B:77:ILE:O	2.32	0.63
6:C:944:LYS:O	6:C:947:GLN:NE2	2.31	0.63
6:C:1078:ALA:O	6:C:1082:PHE:HB3	1.99	0.63
6:C:1648:LEU:HD12	6:C:1684:LEU:HD22	1.79	0.63
6:C:2036:LEU:HD23	6:C:2039:GLU:OE1	1.99	0.63
6:C:2042:GLN:NE2	6:C:2045:PHE:HB2	2.13	0.63
6:C:2255:LEU:O	6:C:2259:LYS:HG3	1.99	0.63
6:C:2911:ARG:HB3	6:C:2913:LYS:CG	2.28	0.63
6:C:2970:LYS:O	6:C:2974:GLU:HB2	1.99	0.63
6:C:3172:LYS:HZ2	6:C:3241:LYS:HE2	1.60	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3596:LEU:HD22	6:C:3657:SER:HA	1.80	0.63
1:A:79:ASP:O	1:A:110:ASN:ND2	2.31	0.62
1:A:484:GLN:HA	1:A:487:PHE:CE2	2.34	0.62
2:B:27:ILE:HB	2:B:185:LEU:HD13	1.80	0.62
6:C:557:SER:HB3	6:C:645:TRP:HZ2	1.63	0.62
6:C:670:LEU:HD13	6:C:740:ILE:HG13	1.80	0.62
6:C:715:ALA:O	6:C:719:LYS:HG3	1.99	0.62
6:C:1457:GLN:O	6:C:1461:ALA:CB	2.47	0.62
6:C:2046:SER:OG	6:C:2047:THR:N	2.31	0.62
6:C:2260:PHE:HD1	6:C:2273:GLY:HA3	1.64	0.62
6:C:2560:ASN:HA	6:C:2563:LEU:HD12	1.81	0.62
6:C:2954:GLN:HA	6:C:2957:LEU:HB2	1.81	0.62
6:C:3112:GLN:O	6:C:3116:SER:N	2.31	0.62
6:C:3916:TRP:CE3	6:C:3917:ILE:HD13	2.34	0.62
1:A:274:TYR:HD2	1:A:369:TYR:H	1.46	0.62
4:D:13:DT:O4	5:E:22:DA:N6	2.32	0.62
6:C:82:ARG:HH11	6:C:114:VAL:HG13	1.64	0.62
6:C:175:TYR:HA	6:C:178:LEU:HD12	1.80	0.62
6:C:1125:GLN:NE2	6:C:1167:ASP:OD2	2.21	0.62
6:C:2240:THR:OG1	6:C:2241:LEU:N	2.32	0.62
6:C:2894:GLU:HB3	6:C:3973:PRO:HG2	1.80	0.62
6:C:3644:PHE:HE1	6:C:3669:LYS:HG2	1.63	0.62
1:A:43:ASP:HB2	1:A:168:LEU:HD11	1.81	0.62
1:A:291:GLU:N	1:A:291:GLU:OE1	2.33	0.62
1:A:405:ASN:CG	1:A:406:ILE:H	2.03	0.62
2:B:242:ARG:NH2	2:B:245:ILE:HG13	2.14	0.62
4:D:10:DG:N2	5:E:25:DG:H22	1.98	0.62
6:C:28:ALA:N	6:C:77:GLU:OE1	2.31	0.62
6:C:615:ALA:O	6:C:619:ASP:N	2.20	0.62
6:C:870:LEU:O	6:C:874:THR:OG1	2.18	0.62
6:C:1163:LEU:HD22	6:C:1256:TRP:CD1	2.34	0.62
6:C:1514:LEU:O	6:C:1517:LEU:N	2.31	0.62
6:C:2153:THR:O	6:C:2160:TYR:OH	2.14	0.62
6:C:2955:SER:O	6:C:2960:GLU:N	2.27	0.62
6:C:3469:LEU:HD12	6:C:3479:THR:HG21	1.80	0.62
6:C:3820:MET:SD	6:C:3829:LEU:HB3	2.39	0.62
6:C:3978:GLY:HA2	6:C:3981:TYR:HB3	1.81	0.62
6:C:4015:ASN:O	6:C:4019:LYS:HG3	1.99	0.62
1:A:478:PHE:H	2:B:427:MET:HB2	1.65	0.62
2:B:457:LEU:HD13	2:B:529:PRO:HB2	1.81	0.62
6:C:82:ARG:HH22	6:C:117:LYS:HE2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:434:VAL:O	6:C:438:LEU:CB	2.43	0.62
6:C:441:MET:HB2	6:C:1814:PHE:CE1	2.35	0.62
6:C:487:LEU:HD12	6:C:530:LEU:HD23	1.82	0.62
6:C:793:LEU:HD23	6:C:796:LEU:HD12	1.82	0.62
6:C:908:ASP:HA	6:C:910:PHE:CD2	2.34	0.62
6:C:912:PRO:O	6:C:915:THR:OG1	2.16	0.62
6:C:3110:PHE:HA	6:C:3113:ASN:CG	2.19	0.62
1:A:241:ASP:O	1:A:245:LYS:HB3	1.99	0.62
1:A:350:PHE:O	2:B:463:LEU:N	2.30	0.62
1:A:412:ALA:HB3	1:A:435:VAL:HB	1.80	0.62
2:B:303:THR:OG1	2:B:304:GLU:OE1	2.16	0.62
6:C:297:LEU:HG	6:C:300:TRP:CE3	2.34	0.62
6:C:784:VAL:HG12	6:C:788:TYR:HE2	1.64	0.62
6:C:973:ALA:HB1	6:C:981:ARG:H	1.64	0.62
6:C:1256:TRP:O	6:C:1259:LEU:N	2.31	0.62
6:C:2809:PHE:CD1	6:C:2809:PHE:N	2.65	0.62
6:C:2914:ALA:O	6:C:2918:PRO:HD2	2.00	0.62
6:C:2957:LEU:O	6:C:3989:ARG:NH1	2.32	0.62
6:C:3281:CYS:HB2	6:C:3324:ARG:HH12	1.65	0.62
6:C:3703:GLY:N	6:C:3706:ASP:OD2	2.31	0.62
6:C:3884:LYS:HZ2	6:C:3970:LEU:HA	1.64	0.62
1:A:276:LEU:HG	2:B:430:LEU:HA	1.81	0.62
6:C:203:GLU:O	6:C:206:THR:OG1	2.17	0.62
6:C:491:CYS:HA	6:C:527:TYR:CD1	2.34	0.62
6:C:970:LEU:HD23	6:C:985:GLU:HG3	1.81	0.62
6:C:1680:ALA:O	6:C:1683:LYS:N	2.32	0.62
6:C:2099:ALA:HA	6:C:2102:LYS:HB3	1.80	0.62
6:C:2254:ARG:O	6:C:2257:PHE:HB2	1.99	0.62
6:C:2350:LYS:HZ1	6:C:2377:ARG:HD2	1.64	0.62
6:C:3179:TRP:HE1	6:C:3245:SER:CB	2.13	0.62
6:C:3309:GLU:OE1	6:C:3318:LYS:NZ	2.25	0.62
1:A:278:GLN:NE2	4:D:2:DG:O5'	2.33	0.62
1:A:428:THR:HA	2:B:354:ARG:NH1	2.15	0.62
2:B:301:ASP:OD1	6:C:119:ARG:NH2	2.32	0.62
6:C:147:PHE:CE1	6:C:186:PRO:HG3	2.35	0.62
6:C:471:LYS:HZ2	6:C:474:VAL:H	1.45	0.62
6:C:887:ASP:OD2	6:C:3889:ARG:NE	2.33	0.62
6:C:1448:LEU:HD22	6:C:1503:LEU:HD21	1.82	0.62
6:C:2025:MET:HB2	6:C:2038:GLU:OE2	1.99	0.62
6:C:2273:GLY:O	6:C:2277:LEU:HG	1.99	0.62
6:C:2790:LEU:O	6:C:2794:LEU:HG	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2946:GLU:HG3	6:C:2947:ILE:N	2.14	0.62
6:C:3117:ILE:HG21	6:C:3125:ARG:HH22	1.64	0.62
6:C:3706:ASP:HB2	6:C:3715:TYR:HB3	1.81	0.62
6:C:3913:ILE:O	6:C:3917:ILE:HG12	2.00	0.62
2:B:55:ALA:HB3	2:B:117:VAL:HG13	1.81	0.62
2:B:280:ASP:OD2	2:B:283:THR:OG1	2.12	0.62
6:C:98:GLN:HG2	6:C:143:LEU:HD11	1.82	0.62
6:C:570:LYS:HA	6:C:573:LEU:HD12	1.81	0.62
6:C:873:VAL:O	6:C:876:SER:N	2.29	0.62
6:C:988:VAL:O	6:C:991:LEU:HB3	2.00	0.62
6:C:1722:PHE:HE1	6:C:1866:GLN:HB2	1.63	0.62
6:C:2035:THR:O	6:C:2039:GLU:N	2.25	0.62
6:C:2254:ARG:HG3	6:C:2255:LEU:N	2.14	0.62
6:C:3183:ILE:HD12	6:C:3242:MET:HG3	1.81	0.62
6:C:4042:GLN:O	6:C:4045:CYS:HB3	2.00	0.62
1:A:40:PHE:CE1	1:A:70:VAL:HB	2.35	0.62
1:A:426:GLN:HE21	1:A:428:THR:H	1.47	0.62
6:C:317:GLU:HA	6:C:320:LEU:HD23	1.81	0.62
6:C:624:ILE:HG22	6:C:659:ARG:HH11	1.65	0.62
6:C:1029:CYS:O	6:C:1033:ILE:N	2.24	0.62
6:C:1058:SER:O	6:C:1062:ARG:HG2	1.99	0.62
6:C:2142:ILE:HA	6:C:2145:PHE:CZ	2.34	0.62
6:C:2933:ILE:C	6:C:2937:ASP:HB2	2.20	0.62
6:C:2954:GLN:HA	6:C:2957:LEU:HD12	1.81	0.62
6:C:3084:GLN:HA	6:C:3086:LEU:HB3	1.82	0.62
6:C:3173:MET:HG3	6:C:3174:ASP:H	1.64	0.62
1:A:147:LEU:HB3	1:A:189:LYS:HZ2	1.63	0.62
1:A:374:LEU:HD23	1:A:375:VAL:HG23	1.81	0.62
1:A:418:GLU:HG3	1:A:430:PRO:HD3	1.81	0.62
2:B:229:GLU:OE1	2:B:232:ARG:HD2	2.00	0.62
2:B:395:TYR:HB3	2:B:421:TYR:CZ	2.34	0.62
4:D:-15:DT:H2'	4:D:-14:DA:C4	2.35	0.62
6:C:104:SER:O	6:C:108:LYS:HG3	2.00	0.62
6:C:385:TYR:N	6:C:388:LEU:HB3	2.14	0.62
6:C:1103:ALA:O	6:C:1107:TYR:CB	2.47	0.62
6:C:1640:GLU:OE2	6:C:1648:LEU:HB2	2.00	0.62
6:C:1957:ASN:O	6:C:1960:LYS:HG2	2.00	0.62
6:C:2485:ARG:HA	6:C:2499:PHE:CE1	2.34	0.62
6:C:2787:HIS:HE2	6:C:2790:LEU:HG	1.65	0.62
6:C:2994:TRP:O	6:C:2998:SER:CB	2.48	0.62
6:C:3466:PRO:O	6:C:3470:GLN:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3554:PHE:O	6:C:3557:ARG:HB3	2.00	0.62
6:C:3771:MET:O	6:C:3774:ILE:N	2.30	0.62
6:C:4062:ASP:O	6:C:4066:LEU:CB	2.48	0.62
2:B:378:SER:HA	2:B:381:ILE:HD12	1.81	0.61
4:D:3:DT:C2	4:D:4:DA:C8	2.87	0.61
6:C:449:TYR:HB2	6:C:454:GLN:NE2	2.07	0.61
6:C:592:GLU:HB3	6:C:601:TRP:HZ2	1.65	0.61
6:C:643:GLU:HB3	6:C:647:TYR:HE2	1.65	0.61
6:C:805:LEU:HD22	6:C:808:GLU:H	1.65	0.61
6:C:1074:LYS:HG3	6:C:1075:ARG:NH1	2.15	0.61
6:C:1095:LEU:O	6:C:1098:GLN:N	2.28	0.61
6:C:1709:GLU:OE1	6:C:1716:GLN:NE2	2.33	0.61
6:C:2165:LEU:HD12	6:C:2168:LEU:HD12	1.82	0.61
6:C:3244:ASP:OD1	6:C:3247:ARG:NH1	2.22	0.61
6:C:3247:ARG:HG3	6:C:3281:CYS:SG	2.39	0.61
6:C:3811:THR:HA	6:C:3929:MET:HG2	1.82	0.61
1:A:189:LYS:HZ3	1:A:193:LEU:HB2	1.65	0.61
1:A:484:GLN:HG3	1:A:487:PHE:CZ	2.36	0.61
1:A:511:VAL:HA	1:A:514:MET:HE3	1.82	0.61
1:A:512:GLU:OE1	1:A:512:GLU:N	2.31	0.61
6:C:710:PHE:HB3	6:C:714:VAL:HG21	1.81	0.61
6:C:994:TRP:CZ3	6:C:2780:LEU:HG	2.35	0.61
6:C:1044:ILE:O	6:C:1048:GLN:HB2	2.00	0.61
6:C:1575:LEU:HD22	6:C:1604:SER:HB3	1.81	0.61
6:C:1683:LYS:HB3	6:C:1687:HIS:CE1	2.35	0.61
6:C:2271:SER:O	6:C:2274:ILE:HG13	1.99	0.61
6:C:2920:VAL:HA	6:C:2923:TRP:CD1	2.35	0.61
6:C:3929:MET:C	6:C:3937:VAL:HA	2.20	0.61
6:C:4068:HIS:CG	6:C:4069:GLU:H	2.18	0.61
1:A:316:THR:OG1	2:B:279:VAL:O	2.18	0.61
1:A:392:LYS:HZ3	2:B:458:ILE:HG22	1.64	0.61
2:B:377:LEU:O	2:B:380:LEU:HG	2.01	0.61
5:E:35:DC:H1'	5:E:36:DA:H5'	1.83	0.61
5:E:37:DT:H2''	5:E:38:DA:N7	2.16	0.61
6:C:652:GLU:HG2	6:C:717:LYS:NZ	2.16	0.61
6:C:769:GLY:O	6:C:772:ALA:N	2.32	0.61
6:C:1407:LYS:HZ1	6:C:1463:LEU:HD12	1.65	0.61
6:C:2503:LYS:HA	6:C:2506:LEU:HD12	1.82	0.61
6:C:4078:VAL:O	6:C:4082:ARG:NH1	2.34	0.61
2:B:297:LEU:HD12	2:B:303:THR:HG22	1.82	0.61
2:B:509:GLN:HB2	2:B:511:HIS:HE1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:11:DC:N4	5:E:25:DG:O6	2.33	0.61
5:E:38:DA:H2''	5:E:39:DA:N7	2.16	0.61
6:C:66:LEU:HG	6:C:66:LEU:O	2.00	0.61
6:C:107:ILE:HA	6:C:110:THR:HB	1.82	0.61
6:C:997:ASN:HA	6:C:1042:LYS:HD3	1.82	0.61
6:C:2065:ARG:HG3	6:C:2125:TRP:CD1	2.35	0.61
6:C:2077:HIS:NE2	6:C:2087:GLU:OE2	2.28	0.61
6:C:2375:ALA:O	6:C:2377:ARG:N	2.33	0.61
6:C:2864:GLN:O	6:C:2865:HIS:CG	2.53	0.61
6:C:3122:HIS:HB2	6:C:3126:LEU:HD12	1.82	0.61
6:C:3274:VAL:HA	6:C:3277:VAL:HG22	1.83	0.61
6:C:3465:PHE:HB3	6:C:3483:MET:SD	2.40	0.61
1:A:36:ASP:HA	1:A:161:MET:HB2	1.83	0.61
6:C:69:VAL:O	6:C:73:LEU:HG	2.00	0.61
6:C:906:PHE:N	6:C:2807:GLN:OE1	2.34	0.61
6:C:1755:SER:HB3	6:C:1863:PHE:HD1	1.61	0.61
6:C:2313:LYS:O	6:C:2316:TYR:HD2	1.83	0.61
6:C:2397:CYS:HA	6:C:2401:VAL:CG2	2.30	0.61
6:C:2435:CYS:O	6:C:2439:ILE:HG22	2.00	0.61
6:C:3901:ARG:NH2	6:C:3972:LEU:HG	2.16	0.61
1:A:218:ARG:NH1	1:A:222:SER:O	2.33	0.61
2:B:532:LYS:HE2	2:B:537:PHE:CE2	2.34	0.61
6:C:407:VAL:O	6:C:411:PRO:HD2	2.01	0.61
6:C:926:THR:O	6:C:929:ALA:N	2.34	0.61
6:C:1034:ARG:NH2	6:C:2776:ARG:HG3	2.16	0.61
6:C:2254:ARG:HD2	6:C:2295:GLN:HG2	1.83	0.61
6:C:2453:GLU:O	6:C:2456:ASN:ND2	2.34	0.61
6:C:3382:PHE:HA	6:C:3385:LEU:HD12	1.82	0.61
6:C:3728:VAL:HA	6:C:3735:PRO:O	2.00	0.61
1:A:147:LEU:HB3	1:A:189:LYS:NZ	2.15	0.61
1:A:240:GLU:HA	1:A:243:LEU:HD12	1.82	0.61
1:A:445:LYS:O	1:A:446:MET:HG3	2.01	0.61
6:C:115:TYR:HA	6:C:131:LEU:HD21	1.81	0.61
6:C:1088:GLU:HG3	6:C:1089:PHE:H	1.65	0.61
6:C:1877:LEU:O	6:C:1920:TYR:OH	2.18	0.61
6:C:2181:GLY:O	6:C:2184:TYR:N	2.34	0.61
6:C:2351:GLN:O	6:C:2354:ASN:N	2.34	0.61
6:C:2816:ILE:O	6:C:2819:GLU:N	2.34	0.61
6:C:2885:GLN:O	6:C:2888:VAL:HG22	2.00	0.61
6:C:2965:TYR:CE2	6:C:3002:TYR:HE2	2.18	0.61
6:C:3438:GLU:HB3	6:C:3442:TYR:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:LYS:HG2	1:A:93:ASP:H	1.65	0.61
1:A:105:LEU:HD21	1:A:119:LEU:HD22	1.80	0.61
1:A:145:GLU:O	1:A:149:VAL:HG23	2.01	0.61
1:A:470:ARG:HG3	2:B:346:CYS:HA	1.82	0.61
1:A:485:GLN:O	1:A:488:ARG:HB2	2.00	0.61
2:B:332:LYS:HE3	2:B:334:LYS:HD3	1.83	0.61
2:B:400:ARG:NH2	5:E:26:DC:N3	2.48	0.61
6:C:660:LEU:O	6:C:664:SER:OG	2.07	0.61
6:C:673:THR:HB	6:C:707:PHE:CE2	2.36	0.61
6:C:1587:VAL:HG22	6:C:1647:ALA:HB2	1.82	0.61
6:C:1649:LEU:HA	6:C:1652:ILE:HD12	1.82	0.61
6:C:2895:GLU:HG3	6:C:2896:ALA:N	2.15	0.61
6:C:2915:ARG:NH1	6:C:2941:GLY:O	2.32	0.61
6:C:3484:THR:N	6:C:3516:HIS:CE1	2.69	0.61
6:C:3923:ARG:CZ	6:C:3941:ASP:HB2	2.31	0.61
1:A:359:HIS:H	1:A:360:HIS:CD2	2.18	0.61
2:B:10:VAL:HB	2:B:54:ILE:HG13	1.83	0.61
6:C:67:VAL:HG22	6:C:110:THR:HG21	1.83	0.61
6:C:387:GLU:O	6:C:390:GLN:HB3	2.00	0.61
6:C:723:ASP:H	6:C:727:ALA:H	1.49	0.61
6:C:1513:GLY:O	6:C:1516:GLU:HB3	2.01	0.61
6:C:3059:GLN:NE2	6:C:3063:THR:HG21	2.16	0.61
6:C:3137:GLU:O	6:C:3140:GLU:HB2	2.01	0.61
1:A:301:ARG:HD3	6:C:164:LYS:H	1.65	0.61
1:A:356:LEU:HB3	1:A:360:HIS:NE2	2.16	0.61
4:D:8:DT:O2	4:D:9:DG:C8	2.54	0.61
5:E:45:DG:H2'	5:E:46:DT:C2	2.36	0.61
6:C:33:GLN:HE22	6:C:2427:ARG:HA	1.65	0.61
6:C:429:GLU:C	6:C:431:TYR:H	2.03	0.61
6:C:532:ARG:HH11	6:C:535:LEU:HD13	1.66	0.61
6:C:1870:LYS:HG2	6:C:1871:MET:HG2	1.82	0.61
6:C:2275:GLN:O	6:C:2279:ILE:HG12	2.00	0.61
6:C:2417:SER:O	6:C:2421:VAL:HB	2.00	0.61
6:C:2526:SER:O	6:C:2531:LEU:N	2.34	0.61
6:C:2869:LEU:O	6:C:2872:ASP:N	2.17	0.61
6:C:3524:ASN:O	6:C:3529:ILE:N	2.34	0.61
6:C:3620:PRO:HD3	6:C:3641:ASP:OD2	2.01	0.61
6:C:3789:ARG:HG2	6:C:3938:ILE:HB	1.82	0.61
6:C:4069:GLU:HB3	6:C:4070:LYS:CG	2.31	0.61
1:A:274:TYR:CB	1:A:367:PHE:O	2.38	0.60
4:D:-9:DC:C6	4:D:-8:DT:H72	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:3:DT:H2'	4:D:4:DA:O4'	2.01	0.60
6:C:142:ARG:NH1	6:C:180:LEU:HD22	2.16	0.60
6:C:563:LEU:HD21	6:C:609:ALA:HA	1.83	0.60
6:C:797:ASP:HB2	6:C:869:ASN:HB2	1.83	0.60
6:C:1108:MET:O	6:C:1111:LEU:HB3	2.01	0.60
6:C:1927:MET:O	6:C:1933:LEU:HD11	2.01	0.60
6:C:2379:MET:O	6:C:2382:VAL:HG22	2.00	0.60
6:C:2929:LEU:O	6:C:2933:ILE:N	2.34	0.60
6:C:3883:LEU:O	6:C:3887:PHE:CB	2.42	0.60
1:A:302:THR:OG1	1:A:311:LEU:HB2	2.02	0.60
6:C:88:PHE:HD1	6:C:91:ILE:HD11	1.66	0.60
6:C:258:PRO:HA	6:C:264:ARG:HG3	1.84	0.60
6:C:442:GLN:HG2	6:C:443:ILE:HA	1.83	0.60
6:C:797:ASP:OD2	6:C:868:LYS:N	2.26	0.60
6:C:852:ARG:NH2	6:C:3114:TYR:HB2	2.08	0.60
6:C:913:ARG:O	6:C:916:GLU:HB2	2.02	0.60
6:C:933:LEU:HD13	6:C:2794:LEU:HB2	1.83	0.60
6:C:967:PRO:C	6:C:971:ARG:HE	2.04	0.60
6:C:989:MET:HA	6:C:992:ILE:HG12	1.83	0.60
6:C:1144:SER:HA	6:C:1147:LYS:HB3	1.83	0.60
6:C:1459:HIS:HE1	6:C:1509:GLN:HG3	1.66	0.60
6:C:2251:ILE:HA	6:C:2253:TYR:CZ	2.36	0.60
6:C:2260:PHE:CD2	6:C:2277:LEU:HD11	2.36	0.60
6:C:3031:TRP:CE2	6:C:3034:PRO:HB3	2.36	0.60
6:C:3595:GLU:HB2	6:C:3606:ILE:HD11	1.83	0.60
1:A:339:ARG:HH11	1:A:405:ASN:HD22	1.49	0.60
1:A:353:LEU:HD22	1:A:414:VAL:HG13	1.83	0.60
1:A:442:ASP:HB3	2:B:267:ILE:HG23	1.82	0.60
2:B:361:VAL:HG22	2:B:422:VAL:HG12	1.83	0.60
6:C:671:SER:HB3	6:C:675:ARG:HH12	1.65	0.60
6:C:800:LEU:O	6:C:803:SER:HB2	2.01	0.60
6:C:1064:TYR:O	6:C:1068:LEU:HG	2.01	0.60
6:C:1135:CYS:SG	6:C:1171:TRP:HH2	2.23	0.60
6:C:2559:THR:HG21	6:C:2808:LEU:HD22	1.81	0.60
6:C:3238:MET:O	6:C:3242:MET:HG2	2.01	0.60
6:C:3399:PRO:HA	6:C:3402:SER:HB2	1.83	0.60
1:A:256:LEU:HD11	5:E:38:DA:C2	2.36	0.60
1:A:339:ARG:HD3	1:A:405:ASN:ND2	2.16	0.60
1:A:380:THR:O	1:A:383:SER:OG	2.12	0.60
6:C:1425:ALA:O	6:C:1429:GLU:CB	2.49	0.60
6:C:2887:PRO:HG3	6:C:2922:ARG:HE	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2969:ALA:HB1	6:C:2995:GLU:OE2	2.02	0.60
6:C:3632:PHE:HZ	6:C:3680:LEU:H	1.47	0.60
6:C:3761:ASP:HA	6:C:3764:VAL:CG2	2.32	0.60
6:C:4079:ALA:HA	6:C:4082:ARG:HH11	1.65	0.60
1:A:74:LYS:HA	1:A:77:SER:OG	2.00	0.60
1:A:470:ARG:NH2	1:A:472:THR:HA	2.17	0.60
6:C:69:VAL:O	6:C:72:SER:OG	2.15	0.60
6:C:131:LEU:HD23	6:C:134:LEU:HD12	1.82	0.60
6:C:322:GLN:HA	6:C:325:ASN:ND2	2.16	0.60
6:C:439:VAL:HG13	6:C:442:GLN:OE1	2.01	0.60
6:C:1059:LEU:O	6:C:1063:LEU:HG	2.02	0.60
6:C:2239:LYS:O	6:C:2242:VAL:HB	2.02	0.60
6:C:2295:GLN:HB3	6:C:2299:TYR:HE2	1.66	0.60
6:C:2395:THR:HA	6:C:2432:GLN:HE21	1.67	0.60
6:C:2480:ILE:HD12	6:C:2483:ASN:HB2	1.82	0.60
6:C:2884:LEU:HD23	6:C:2886:GLN:HB3	1.82	0.60
6:C:2916:LEU:HD12	6:C:2919:ASP:HB2	1.83	0.60
6:C:2935:GLU:HG3	6:C:2953:THR:HG22	1.83	0.60
6:C:3004:HIS:CE1	6:C:3043:TYR:HD1	2.19	0.60
6:C:3151:LEU:HG	6:C:3155:VAL:HB	1.83	0.60
6:C:3298:LEU:HD12	6:C:3301:LEU:HG	1.83	0.60
6:C:3354:ASP:HB3	6:C:3358:ARG:HH22	1.65	0.60
6:C:3462:ARG:NH1	6:C:3463:LEU:HD21	2.17	0.60
6:C:3610:TYR:CZ	6:C:3652:LEU:HA	2.37	0.60
6:C:4011:PHE:HA	6:C:4015:ASN:OD1	2.01	0.60
1:A:130:ARG:O	1:A:134:MET:HB2	1.99	0.60
1:A:493:LEU:HA	1:A:496:ASP:OD1	2.02	0.60
5:E:33:DA:H2'	5:E:34:DC:C6	2.37	0.60
6:C:98:GLN:HG2	6:C:143:LEU:CD1	2.31	0.60
6:C:640:GLU:O	6:C:643:GLU:N	2.34	0.60
6:C:2156:VAL:HG23	6:C:2160:TYR:OH	2.02	0.60
6:C:2524:PHE:HA	6:C:2527:HIS:ND1	2.17	0.60
6:C:3050:LYS:HG3	6:C:3051:LEU:N	2.17	0.60
6:C:3184:THR:OG1	6:C:3185:ASN:N	2.35	0.60
6:C:3486:GLU:O	6:C:3490:VAL:N	2.33	0.60
6:C:3534:ILE:HG23	6:C:3796:MET:HG2	1.81	0.60
6:C:4033:VAL:O	6:C:4036:LYS:HE3	2.02	0.60
1:A:410:PHE:CZ	2:B:516:LEU:HA	2.32	0.60
6:C:789:TYR:O	6:C:793:LEU:N	2.34	0.60
6:C:867:ASN:HD22	6:C:868:LYS:NZ	2.00	0.60
6:C:929:ALA:HA	6:C:932:GLU:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:957:PRO:HA	6:C:960:GLN:OE1	2.02	0.60
6:C:970:LEU:HB3	6:C:981:ARG:HG3	1.82	0.60
6:C:1501:PRO:O	6:C:1505:LEU:HB2	2.01	0.60
6:C:2231:PHE:O	6:C:2234:ASN:ND2	2.33	0.60
6:C:2340:SER:HA	6:C:2343:GLU:CD	2.22	0.60
6:C:2844:LEU:HD13	6:C:2876:VAL:HG12	1.84	0.60
6:C:2922:ARG:HD2	6:C:2930:TYR:CD1	2.36	0.60
6:C:3048:LYS:HB2	6:C:3052:LEU:HD13	1.83	0.60
6:C:3764:VAL:HG12	6:C:3768:PHE:CE2	2.37	0.60
1:A:445:LYS:CE	2:B:243:HIS:HA	2.32	0.60
2:B:247:TRP:CZ3	2:B:249:CYS:HB3	2.35	0.60
2:B:265:LYS:HZ2	5:E:28:DA:P	2.23	0.60
2:B:339:CYS:N	2:B:396:ALA:HB3	2.17	0.60
6:C:848:LEU:HA	6:C:851:ILE:HG12	1.83	0.60
6:C:2462:VAL:CG2	6:C:2470:ARG:HD3	2.30	0.60
6:C:2963:SER:O	6:C:2966:SER:N	2.35	0.60
6:C:3106:GLY:O	6:C:3109:SER:HB3	2.02	0.60
6:C:3159:ARG:HE	6:C:3162:ASN:CG	2.04	0.60
6:C:3701:ILE:HG13	6:C:3719:ILE:H	1.64	0.60
1:A:48:MET:HE2	1:A:172:GLU:HB2	1.84	0.60
1:A:127:GLY:O	1:A:131:PHE:HB2	2.02	0.60
2:B:338:LYS:HB3	2:B:398:ASP:HA	1.82	0.60
2:B:491:PHE:HD1	2:B:494:LEU:HD12	1.67	0.60
4:D:-6:DT:H2'	4:D:-5:DT:N1	2.17	0.60
6:C:346:TYR:HA	6:C:349:ILE:HG13	1.84	0.60
6:C:535:LEU:O	6:C:539:GLN:HG2	2.01	0.60
6:C:936:SER:HB3	6:C:2791:ILE:HG12	1.83	0.60
6:C:952:GLY:O	6:C:956:PRO:HD3	2.01	0.60
6:C:959:TYR:HA	6:C:962:TYR:HB3	1.83	0.60
6:C:965:THR:OG1	6:C:966:PHE:N	2.33	0.60
6:C:1090:ARG:HH12	6:C:1100:VAL:HG11	1.65	0.60
6:C:2036:LEU:O	6:C:2040:MET:HG2	2.02	0.60
6:C:2139:PRO:O	6:C:2142:ILE:HB	2.02	0.60
6:C:2425:ARG:HH22	6:C:2456:ASN:HB2	1.66	0.60
6:C:2499:PHE:O	6:C:2503:LYS:HG3	2.02	0.60
6:C:3350:GLU:OE1	6:C:3350:GLU:N	2.20	0.60
6:C:3533:PHE:CE1	6:C:3562:LEU:HB2	2.36	0.60
1:A:42:VAL:HA	1:A:169:PHE:HB2	1.82	0.60
6:C:397:LEU:O	6:C:400:THR:N	2.25	0.60
6:C:867:ASN:HD22	6:C:868:LYS:HZ2	1.50	0.60
6:C:922:SER:O	6:C:925:GLN:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1220:LEU:HD12	6:C:1271:ILE:HG21	1.84	0.60
6:C:1221:ILE:HA	6:C:1224:PHE:HD2	1.66	0.60
6:C:2325:LEU:O	6:C:2329:TYR:N	2.19	0.60
6:C:2470:ARG:HB3	6:C:2474:TYR:CE2	2.36	0.60
6:C:2951:GLN:OE1	6:C:2972:TYR:OH	2.18	0.60
6:C:3534:ILE:HG23	6:C:3796:MET:HA	1.84	0.60
6:C:3612:ARG:O	6:C:3616:ALA:CB	2.50	0.60
6:C:3924:HIS:O	6:C:3962:ARG:NH2	2.35	0.60
1:A:318:ARG:NH2	1:A:331:LYS:HD2	2.17	0.59
1:A:319:SER:OG	1:A:327:ILE:O	2.21	0.59
6:C:645:TRP:O	6:C:648:SER:N	2.35	0.59
6:C:756:PHE:HA	6:C:773:LEU:HD22	1.84	0.59
6:C:763:THR:HB	6:C:766:ALA:HB3	1.82	0.59
6:C:776:TRP:CH2	6:C:780:ILE:HG21	2.37	0.59
6:C:1426:GLN:HE21	6:C:1430:GLU:CD	2.05	0.59
6:C:1879:VAL:HA	6:C:1882:SER:HB3	1.82	0.59
6:C:1967:PHE:O	6:C:1971:PRO:HD2	2.01	0.59
6:C:2793:PRO:O	6:C:2797:VAL:HG22	2.01	0.59
6:C:2865:HIS:HB2	6:C:2868:LEU:HD13	1.83	0.59
6:C:3496:ILE:HA	6:C:3499:ILE:HG23	1.84	0.59
6:C:3568:ILE:O	6:C:3571:PHE:HB3	2.02	0.59
1:A:368:VAL:HG23	1:A:434:LEU:HD21	1.83	0.59
2:B:246:HIS:CD2	2:B:262:ALA:HB2	2.37	0.59
6:C:67:VAL:O	6:C:71:LYS:HB3	2.02	0.59
6:C:557:SER:HA	6:C:616:LYS:NZ	2.16	0.59
6:C:928:VAL:O	6:C:932:GLU:HG3	2.02	0.59
6:C:1760:GLU:OE2	6:C:1893:GLU:HG2	2.03	0.59
6:C:1871:MET:HG3	6:C:1885:PRO:HG3	1.84	0.59
6:C:2828:GLU:HA	6:C:2831:ASN:ND2	2.17	0.59
1:A:63:SER:HB3	1:A:169:PHE:CD2	2.37	0.59
1:A:326:GLN:OE1	1:A:327:ILE:N	2.34	0.59
1:A:524:GLU:O	1:A:528:LEU:HG	2.02	0.59
2:B:38:ILE:O	2:B:41:PHE:HB3	2.03	0.59
2:B:148:ASP:O	2:B:152:HIS:ND1	2.35	0.59
4:D:15:DG:N2	5:E:19:DC:O3'	2.28	0.59
6:C:33:GLN:OE1	6:C:2427:ARG:HA	2.02	0.59
6:C:50:VAL:O	6:C:54:GLN:HB3	2.02	0.59
6:C:187:SER:O	6:C:190:ILE:N	2.35	0.59
6:C:389:ILE:HG21	6:C:431:TYR:HD1	1.67	0.59
6:C:659:ARG:HD2	6:C:663:ILE:HG23	1.83	0.59
6:C:1444:ASP:O	6:C:1447:ARG:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1457:GLN:N	6:C:1460:ARG:HH21	2.01	0.59
6:C:2022:PRO:HG2	6:C:2045:PHE:CD2	2.37	0.59
6:C:2929:LEU:O	6:C:2932:SER:OG	2.11	0.59
6:C:2999:LEU:HA	6:C:3002:TYR:CE2	2.37	0.59
6:C:3007:GLU:HG2	6:C:3046:ARG:NH2	2.17	0.59
1:A:303:PHE:CD2	2:B:292:GLU:HG2	2.37	0.59
1:A:362:LEU:HG	1:A:363:ARG:H	1.67	0.59
2:B:76:ASN:ND2	2:B:103:GLN:O	2.36	0.59
2:B:154:LEU:HA	2:B:157:CYS:HB2	1.84	0.59
2:B:187:GLY:H	2:B:232:ARG:HG2	1.66	0.59
4:D:-7:DA:H2'	4:D:-6:DT:C6	2.37	0.59
4:D:10:DG:H22	5:E:25:DG:N2	2.00	0.59
6:C:545:LEU:HA	6:C:548:GLU:OE1	2.01	0.59
6:C:572:VAL:O	6:C:576:VAL:CB	2.36	0.59
6:C:1032:CYS:HA	6:C:1035:GLU:OE1	2.01	0.59
6:C:2134:GLY:O	6:C:2137:ILE:HB	2.02	0.59
6:C:2211:LEU:HA	6:C:2214:ARG:NH2	2.13	0.59
6:C:2851:PHE:HA	6:C:2854:PHE:CG	2.37	0.59
6:C:2918:PRO:HA	6:C:2921:LEU:HG	1.83	0.59
6:C:3027:LEU:O	6:C:3040:TYR:OH	2.21	0.59
6:C:3114:TYR:CZ	6:C:3128:LYS:HB3	2.37	0.59
1:A:264:ASN:OD1	1:A:267:ILE:N	2.35	0.59
6:C:973:ALA:HB1	6:C:980:THR:HB	1.85	0.59
6:C:2065:ARG:HG3	6:C:2125:TRP:NE1	2.17	0.59
6:C:2419:ASP:N	6:C:2419:ASP:OD1	2.35	0.59
6:C:2420:PHE:CE1	6:C:2424:MET:HB2	2.37	0.59
6:C:2949:THR:O	6:C:2953:THR:HG23	2.02	0.59
6:C:3294:SER:OG	6:C:3295:GLU:OE2	2.16	0.59
6:C:3858:MET:O	6:C:3864:ARG:NH2	2.35	0.59
1:A:239:LEU:O	1:A:242:LEU:HB2	2.03	0.59
1:A:278:GLN:OE1	4:D:1:DG:H5''	2.02	0.59
1:A:330:GLU:HG3	1:A:332:GLU:H	1.68	0.59
5:E:40:DT:H2'	5:E:41:DA:C8	2.37	0.59
6:C:223:CYS:O	6:C:227:LEU:CB	2.50	0.59
6:C:415:GLN:CG	6:C:460:ALA:HA	2.33	0.59
6:C:612:LEU:HA	6:C:615:ALA:HB2	1.84	0.59
6:C:1063:LEU:HD23	6:C:1066:LEU:HD23	1.85	0.59
6:C:1073:PHE:O	6:C:1076:LEU:HG	2.02	0.59
6:C:2251:ILE:HG23	6:C:2253:TYR:CD2	2.36	0.59
6:C:2313:LYS:O	6:C:2315:VAL:N	2.36	0.59
6:C:2965:TYR:CZ	6:C:2969:ALA:HB3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3125:ARG:O	6:C:3129:LEU:HG	2.02	0.59
6:C:3809:THR:CA	6:C:3930:VAL:O	2.21	0.59
1:A:75:ILE:HG23	2:B:316:TYR:CZ	2.38	0.59
2:B:151:ILE:HD11	2:B:211:VAL:HA	1.85	0.59
2:B:151:ILE:HD13	2:B:214:SER:HB2	1.85	0.59
5:E:21:DA:H2''	5:E:22:DA:O4'	2.02	0.59
6:C:302:ALA:O	6:C:309:LYS:NZ	2.27	0.59
6:C:530:LEU:O	6:C:534:LEU:HG	2.02	0.59
6:C:1000:LYS:HE3	6:C:1052:SER:HB3	1.84	0.59
6:C:1142:HIS:CG	6:C:1145:LEU:HD12	2.38	0.59
6:C:1412:LYS:O	6:C:1416:GLU:N	2.36	0.59
6:C:1945:TYR:CE2	6:C:1994:VAL:HG21	2.37	0.59
6:C:2109:GLY:O	6:C:2112:GLN:N	2.36	0.59
6:C:2256:ILE:HA	6:C:2259:LYS:HD2	1.84	0.59
6:C:2257:PHE:O	6:C:2261:SER:N	2.19	0.59
6:C:2434:VAL:O	6:C:2438:ILE:N	2.23	0.59
6:C:3244:ASP:O	6:C:3247:ARG:HB3	2.02	0.59
6:C:3721:GLY:O	6:C:3741:ARG:N	2.32	0.59
6:C:3770:VAL:O	6:C:3773:GLY:N	2.36	0.59
6:C:3872:ARG:NH2	6:C:3873:LYS:HE3	2.14	0.59
6:C:4100:GLU:HG3	6:C:4101:GLU:H	1.68	0.59
1:A:145:GLU:HA	1:A:148:TRP:CZ2	2.37	0.59
1:A:259:LEU:HD13	1:A:273:ILE:HG13	1.85	0.59
1:A:264:ASN:HD21	1:A:266:ASP:HB2	1.68	0.59
1:A:286:ILE:HB	2:B:314:PHE:HA	1.85	0.59
2:B:129:LYS:HG2	2:B:240:ILE:HA	1.85	0.59
6:C:349:ILE:HG23	6:C:391:ARG:HH12	1.68	0.59
6:C:742:GLU:HB3	6:C:783:HIS:CG	2.38	0.59
6:C:1441:ALA:O	6:C:1445:ARG:CB	2.50	0.59
6:C:1990:PHE:O	6:C:1993:GLU:HB3	2.03	0.59
6:C:2004:TYR:O	6:C:2007:ILE:HG12	2.03	0.59
6:C:2045:PHE:O	6:C:2049:VAL:CB	2.42	0.59
6:C:2181:GLY:HA2	6:C:2184:TYR:CD2	2.38	0.59
6:C:3585:PHE:HB3	6:C:3670:MET:HE2	1.84	0.59
1:A:95:ASN:HA	1:A:104:VAL:HG23	1.85	0.59
1:A:241:ASP:N	1:A:241:ASP:OD1	2.34	0.59
1:A:259:LEU:HD22	1:A:400:TYR:CE1	2.38	0.59
1:A:348:MET:HG3	1:A:399:ARG:HG3	1.85	0.59
1:A:441:ASP:CG	2:B:270:GLU:HB2	2.23	0.59
1:A:479:GLU:HA	2:B:426:PHE:CG	2.37	0.59
2:B:58:LEU:HB2	2:B:78:THR:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:266:SER:HB3	2:B:363:LYS:H	1.66	0.59
6:C:330:ASN:HB2	6:C:334:HIS:CD2	2.33	0.59
6:C:486:GLY:O	6:C:490:ILE:N	2.29	0.59
6:C:854:ARG:HG2	6:C:857:GLN:OE1	2.03	0.59
6:C:1434:VAL:HG21	6:C:1448:LEU:HD11	1.85	0.59
6:C:2130:HIS:H	6:C:2140:LEU:HD13	1.67	0.59
6:C:2492:ASP:O	6:C:2495:SER:OG	2.20	0.59
6:C:2874:ALA:HB1	6:C:2921:LEU:HB3	1.85	0.59
6:C:3327:ASN:O	6:C:3330:LEU:HB3	2.02	0.59
6:C:3759:ARG:O	6:C:3762:GLN:HB3	2.02	0.59
6:C:3791:TYR:CE2	6:C:3942:PHE:HE2	2.21	0.59
1:A:128:GLN:HE21	1:A:132:GLN:NE2	1.99	0.59
1:A:321:ILE:O	2:B:274:LYS:NZ	2.35	0.59
1:A:472:THR:O	2:B:350:GLN:NE2	2.36	0.59
6:C:546:ALA:HB1	6:C:633:ILE:HD13	1.84	0.59
6:C:985:GLU:HA	6:C:988:VAL:HG22	1.85	0.59
6:C:1280:GLN:HE22	6:C:1357:LYS:HB3	1.67	0.59
6:C:2022:PRO:HG2	6:C:2045:PHE:HD2	1.68	0.59
6:C:2234:ASN:HA	6:C:2237:ILE:HD12	1.85	0.59
6:C:3070:HIS:O	6:C:3073:LEU:N	2.36	0.59
6:C:3757:ASP:HB2	6:C:3800:LEU:N	2.17	0.59
6:C:3880:ALA:HB2	6:C:3966:GLN:HA	1.83	0.59
1:A:144:SER:O	1:A:147:LEU:HB2	2.03	0.58
1:A:388:LYS:O	1:A:392:LYS:N	2.31	0.58
2:B:264:TYR:HE2	2:B:365:PHE:HB3	1.67	0.58
6:C:558:GLU:O	6:C:561:ASN:HB2	2.01	0.58
6:C:561:ASN:HB3	6:C:565:TYR:CE2	2.37	0.58
6:C:620:PHE:HA	6:C:623:PHE:HB3	1.85	0.58
6:C:930:ALA:O	6:C:934:LEU:HD13	2.03	0.58
6:C:1180:GLN:HB2	6:C:1213:LYS:N	2.18	0.58
6:C:1259:LEU:CD2	6:C:1340:ARG:HG3	2.33	0.58
6:C:3994:ASP:HB3	6:C:3997:LEU:HD11	1.85	0.58
1:A:126:GLN:HB2	1:A:130:ARG:HH21	1.68	0.58
1:A:232:HIS:CG	1:A:423:GLN:HB2	2.37	0.58
1:A:257:SER:HA	5:E:38:DA:P	2.43	0.58
4:D:-15:DT:H2'	4:D:-14:DA:C5	2.38	0.58
4:D:-10:DA:H2'	4:D:-9:DC:C4	2.38	0.58
6:C:104:SER:OG	6:C:105:VAL:N	2.36	0.58
6:C:189:MET:HA	6:C:192:ASN:ND2	2.17	0.58
6:C:335:LYS:O	6:C:338:LEU:HB3	2.03	0.58
6:C:396:PHE:CD2	6:C:397:LEU:HD12	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1065:SER:HA	6:C:1068:LEU:HD12	1.84	0.58
6:C:1572:LEU:HD23	6:C:1575:LEU:HD12	1.85	0.58
6:C:1956:PHE:HB2	6:C:1960:LYS:HD3	1.85	0.58
6:C:2381:ALA:C	6:C:2385:LEU:HD13	2.24	0.58
6:C:2816:ILE:HG23	6:C:2817:LEU:H	1.68	0.58
6:C:2936:TYR:CE1	6:C:2946:GLU:HA	2.36	0.58
6:C:2989:ALA:HB1	6:C:2993:PHE:CE1	2.38	0.58
6:C:3759:ARG:NH1	6:C:4008:GLU:OE2	2.31	0.58
6:C:3815:LEU:HA	6:C:3818:ASN:ND2	2.18	0.58
6:C:3817:LEU:HB3	6:C:3829:LEU:HD21	1.85	0.58
2:B:454:VAL:H	2:B:532:LYS:HZ2	1.50	0.58
2:B:455:ASP:O	2:B:458:ILE:N	2.36	0.58
2:B:491:PHE:HA	2:B:494:LEU:HD12	1.85	0.58
4:D:-2:DT:H2''	4:D:-1:DA:H5''	1.85	0.58
5:E:38:DA:H2''	5:E:39:DA:C5	2.38	0.58
6:C:241:ASP:N	6:C:241:ASP:OD1	2.32	0.58
6:C:956:PRO:O	6:C:960:GLN:CB	2.50	0.58
6:C:1049:GLN:O	6:C:1056:THR:OG1	2.16	0.58
6:C:1630:ASP:HA	6:C:1633:TRP:CD2	2.38	0.58
6:C:2012:ARG:NH2	6:C:2013:GLU:OE2	2.36	0.58
6:C:2989:ALA:HB1	6:C:2993:PHE:CZ	2.38	0.58
6:C:3197:LEU:HD13	6:C:3227:ILE:HG22	1.85	0.58
6:C:3254:LEU:O	6:C:3257:LYS:HB3	2.03	0.58
6:C:3502:MET:SD	6:C:3510:GLN:NE2	2.76	0.58
6:C:4113:ASP:O	6:C:4116:ILE:HG22	2.03	0.58
2:B:62:ASP:HA	2:B:103:GLN:HB3	1.86	0.58
6:C:665:GLY:HA2	6:C:670:LEU:HD11	1.84	0.58
6:C:1050:GLU:OE2	6:C:1057:LYS:NZ	2.33	0.58
6:C:1630:ASP:HA	6:C:1633:TRP:CE3	2.37	0.58
6:C:2260:PHE:CD1	6:C:2273:GLY:HA3	2.38	0.58
6:C:2524:PHE:HA	6:C:2527:HIS:CG	2.39	0.58
6:C:2536:LEU:O	6:C:2539:LEU:HB3	2.03	0.58
6:C:2995:GLU:O	6:C:2998:SER:HB2	2.03	0.58
1:A:264:ASN:ND2	1:A:266:ASP:HB2	2.19	0.58
1:A:380:THR:HG21	2:B:446:PRO:HG3	1.85	0.58
2:B:35:LYS:O	2:B:39:THR:CB	2.52	0.58
2:B:251:LEU:HB2	2:B:340:PHE:HD2	1.68	0.58
5:E:45:DG:H2''	5:E:46:DT:C4	2.39	0.58
6:C:385:TYR:O	6:C:389:ILE:HG12	2.03	0.58
6:C:396:PHE:HZ	6:C:1814:PHE:HB2	1.67	0.58
6:C:444:ASP:HA	6:C:446:PHE:CE2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:481:THR:O	6:C:484:HIS:HB2	2.03	0.58
6:C:1012:ALA:O	6:C:1015:ASP:N	2.29	0.58
6:C:1217:VAL:HG13	6:C:1271:ILE:HG22	1.85	0.58
6:C:1329:ARG:HD3	6:C:1332:TYR:HD2	1.67	0.58
6:C:1477:HIS:O	6:C:1480:GLY:N	2.36	0.58
6:C:1557:GLU:HG2	6:C:1561:SER:HB2	1.85	0.58
6:C:1942:CYS:HB2	6:C:1990:PHE:CE1	2.39	0.58
6:C:2182:ILE:HD12	6:C:2182:ILE:H	1.67	0.58
6:C:3590:ASN:O	6:C:3594:ALA:CB	2.51	0.58
6:C:3877:LYS:HE3	6:C:3965:ARG:HH21	1.67	0.58
6:C:3897:PHE:HD2	6:C:3898:LEU:HG	1.69	0.58
1:A:117:LEU:HD12	1:A:494:ALA:O	2.03	0.58
1:A:128:GLN:O	1:A:132:GLN:HG3	2.04	0.58
1:A:179:ASP:OD2	1:A:182:LYS:HG3	2.02	0.58
1:A:192:ASP:O	1:A:196:THR:N	2.37	0.58
1:A:484:GLN:HE21	1:A:488:ARG:NH2	1.99	0.58
2:B:287:GLU:OE1	2:B:287:GLU:N	2.33	0.58
2:B:423:GLN:OE1	2:B:424:LEU:N	2.36	0.58
2:B:454:VAL:O	2:B:457:LEU:HB3	2.04	0.58
4:D:-4:DA:H5 ⁷	4:D:-3:DT:C7	2.33	0.58
5:E:44:DA:C2	5:E:45:DG:C4	2.92	0.58
6:C:194:GLU:OE2	6:C:233:ASN:HB2	2.02	0.58
6:C:639:ALA:O	6:C:642:PHE:HB3	2.04	0.58
6:C:1330:TYR:O	6:C:1333:SER:OG	2.21	0.58
6:C:2028:LEU:HA	6:C:2030:TYR:CE2	2.38	0.58
6:C:3249:GLN:HB3	6:C:3251:ASN:OD1	2.04	0.58
1:A:272:GLY:N	1:A:371:GLU:HG3	2.19	0.58
1:A:325:ARG:HE	2:B:88:PHE:HB3	1.69	0.58
1:A:416:GLN:HA	1:A:433:GLN:HE22	1.68	0.58
2:B:520:ALA:HA	2:B:523:THR:HB	1.86	0.58
6:C:139:ARG:HA	6:C:142:ARG:HE	1.67	0.58
6:C:433:PRO:O	6:C:437:HIS:ND1	2.36	0.58
6:C:749:VAL:HG23	6:C:750:PRO:HD3	1.85	0.58
6:C:968:VAL:N	6:C:971:ARG:HH21	2.01	0.58
6:C:1633:TRP:O	6:C:1694:THR:OG1	2.18	0.58
6:C:1981:LEU:HD12	6:C:1984:LEU:HD23	1.85	0.58
6:C:2245:TRP:CB	6:C:2246:LYS:HG3	2.33	0.58
6:C:2432:GLN:O	6:C:2434:VAL:N	2.36	0.58
6:C:3329:LEU:HB2	6:C:3389:VAL:HG23	1.86	0.58
6:C:3493:TRP:HH2	6:C:3707:GLY:HA3	1.69	0.58
6:C:3611:GLU:O	6:C:3615:ALA:HB2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3746:ARG:HB3	6:C:3748:HIS:NE2	2.18	0.58
6:C:4005:PHE:CD2	6:C:4006:VAL:HG13	2.37	0.58
2:B:513:TRP:CD2	2:B:516:LEU:HD12	2.39	0.58
2:B:523:THR:HG22	2:B:527:GLN:NE2	2.18	0.58
5:E:43:DT:O5'	5:E:43:DT:H6	1.86	0.58
6:C:153:PHE:HB3	6:C:157:TYR:CZ	2.37	0.58
6:C:970:LEU:HB3	6:C:981:ARG:NH1	2.19	0.58
6:C:1562:LEU:O	6:C:1565:GLU:HB3	2.04	0.58
6:C:1636:ASP:OD1	6:C:1637:SER:N	2.37	0.58
6:C:1718:ILE:HG21	6:C:1746:PHE:HB3	1.84	0.58
6:C:2056:SER:HA	6:C:2060:ARG:NH1	2.18	0.58
6:C:2348:GLN:HG2	6:C:2352:HIS:NE2	2.19	0.58
6:C:2931:ARG:O	6:C:2935:GLU:CB	2.41	0.58
6:C:3469:LEU:HD11	6:C:3512:VAL:HG11	1.86	0.58
6:C:3558:ILE:HG22	6:C:3562:LEU:HD23	1.85	0.58
6:C:3630:ARG:O	6:C:3634:GLN:N	2.31	0.58
6:C:3663:THR:O	6:C:3667:LEU:N	2.28	0.58
6:C:3808:ASN:HB3	6:C:3932:MET:H	1.68	0.58
6:C:3869:THR:HG22	6:C:3872:ARG:NH2	2.19	0.58
6:C:3982:SER:O	6:C:3985:VAL:HB	2.04	0.58
6:C:4077:TYR:HA	6:C:4080:VAL:HB	1.86	0.58
2:B:118:ILE:HG21	2:B:157:CYS:HB3	1.85	0.58
2:B:335:SER:HB3	2:B:403:PRO:HB3	1.84	0.58
2:B:405:VAL:HG23	2:B:426:PHE:CZ	2.38	0.58
6:C:221:ALA:O	6:C:225:LYS:CB	2.37	0.58
6:C:625:ASN:OD1	6:C:626:LEU:N	2.35	0.58
6:C:872:THR:O	6:C:875:SER:HB2	2.03	0.58
6:C:2348:GLN:O	6:C:2351:GLN:HB2	2.04	0.58
6:C:2378:PHE:O	6:C:2382:VAL:HG13	2.04	0.58
6:C:3378:TYR:CD2	6:C:3379:GLN:HG3	2.39	0.58
6:C:3435:ASP:O	6:C:3439:LEU:HB2	2.02	0.58
6:C:3702:PRO:O	6:C:3719:ILE:HB	2.03	0.58
6:C:3915:HIS:HA	6:C:3918:LEU:O	2.04	0.58
1:A:43:ASP:HA	1:A:88:TYR:CZ	2.39	0.58
1:A:348:MET:HG2	1:A:398:CYS:HA	1.86	0.58
1:A:365:SER:HB2	1:A:434:LEU:O	2.03	0.58
2:B:80:HIS:CD2	2:B:81:ARG:HB2	2.38	0.58
2:B:453:ALA:HB3	2:B:532:LYS:NZ	2.19	0.58
6:C:362:ALA:HB2	6:C:408:TYR:CD1	2.39	0.58
6:C:385:TYR:H	6:C:388:LEU:CB	2.17	0.58
6:C:532:ARG:O	6:C:535:LEU:HB2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:579:LEU:HB2	6:C:601:TRP:CH2	2.39	0.58
6:C:617:PRO:HG2	6:C:655:LEU:HG	1.86	0.58
6:C:678:LYS:HA	6:C:681:LYS:HB3	1.86	0.58
6:C:864:GLY:O	6:C:867:ASN:ND2	2.20	0.58
6:C:871:LEU:O	6:C:875:SER:OG	2.11	0.58
6:C:934:LEU:HD23	6:C:969:LEU:HD12	1.85	0.58
6:C:1387:GLY:CA	6:C:1392:MET:H	2.16	0.58
6:C:2146:LEU:HA	6:C:2149:LEU:HG	1.85	0.58
6:C:3194:GLU:HA	6:C:3197:LEU:HG	1.86	0.58
6:C:3763:ARG:NH1	6:C:4012:ASP:OD2	2.37	0.58
6:C:3794:VAL:HG12	6:C:3794:VAL:O	2.02	0.58
1:A:43:ASP:OD1	1:A:44:ALA:N	2.37	0.57
1:A:296:VAL:HG11	2:B:295:TYR:HD1	1.69	0.57
1:A:334:THR:HA	1:A:337:LEU:HD23	1.85	0.57
2:B:234:LEU:HB3	2:B:237:PHE:CD2	2.39	0.57
2:B:320:ILE:HG22	2:B:322:PRO:HD3	1.86	0.57
2:B:452:ASN:O	2:B:455:ASP:HB2	2.04	0.57
6:C:396:PHE:HD2	6:C:397:LEU:HD12	1.68	0.57
6:C:965:THR:O	6:C:968:VAL:HG12	2.04	0.57
6:C:1108:MET:HA	6:C:1111:LEU:HD23	1.86	0.57
6:C:1160:SER:O	6:C:1162:SER:OG	2.17	0.57
6:C:1231:GLN:HE21	6:C:1264:LEU:HD11	1.67	0.57
6:C:1332:TYR:O	6:C:1336:THR:OG1	2.12	0.57
6:C:1407:LYS:NZ	6:C:1463:LEU:HD12	2.18	0.57
6:C:2950:LYS:O	6:C:2953:THR:OG1	2.15	0.57
6:C:3156:PRO:HA	6:C:3159:ARG:HB3	1.86	0.57
1:A:301:ARG:CB	6:C:163:LYS:HD2	2.34	0.57
1:A:474:ARG:HG3	1:A:476:ASP:H	1.68	0.57
1:A:480:ASN:ND2	2:B:404:GLN:OE1	2.37	0.57
2:B:202:LYS:O	2:B:205:LEU:HB3	2.03	0.57
6:C:283:SER:O	6:C:286:LEU:N	2.37	0.57
6:C:748:TYR:HB3	6:C:751:ALA:HB2	1.87	0.57
6:C:788:TYR:C	6:C:792:ILE:HG12	2.24	0.57
6:C:1010:LEU:HB2	6:C:1028:PHE:CE1	2.39	0.57
6:C:1061:LYS:O	6:C:1065:SER:OG	2.21	0.57
6:C:1215:GLU:OE2	6:C:1271:ILE:HA	2.04	0.57
6:C:2153:THR:OG1	6:C:2154:GLU:N	2.37	0.57
6:C:2433:LYS:HD3	6:C:2461:PHE:HD1	1.69	0.57
6:C:3007:GLU:CD	6:C:3049:LEU:HB2	2.23	0.57
6:C:3008:TRP:O	6:C:3050:LYS:HD3	2.03	0.57
6:C:3156:PRO:HB3	6:C:3160:LEU:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3516:HIS:O	6:C:3519:GLU:HB2	2.04	0.57
6:C:3721:GLY:C	6:C:3741:ARG:HB2	2.24	0.57
6:C:3750:PHE:HA	6:C:3805:TRP:HB3	1.86	0.57
1:A:70:VAL:HG13	1:A:74:LYS:HZ1	1.70	0.57
1:A:310:LEU:HD21	6:C:163:LYS:HD3	1.85	0.57
2:B:35:LYS:O	2:B:39:THR:OG1	2.20	0.57
6:C:528:VAL:HG13	6:C:531:PHE:CD2	2.39	0.57
6:C:737:PRO:O	6:C:741:ILE:HG23	2.04	0.57
6:C:1161:ALA:N	6:C:1165:LEU:HD11	2.18	0.57
6:C:1326:GLU:O	6:C:1330:TYR:HB2	2.05	0.57
6:C:1340:ARG:O	6:C:1343:GLU:N	2.37	0.57
6:C:1980:ASN:O	6:C:1984:LEU:CB	2.51	0.57
6:C:2400:VAL:O	6:C:2403:CYS:N	2.37	0.57
6:C:2428:ASP:OD1	6:C:2429:ASP:N	2.38	0.57
6:C:2833:THR:O	6:C:2837:LEU:HG	2.05	0.57
6:C:3469:LEU:HA	6:C:3472:ILE:O	2.04	0.57
6:C:3486:GLU:O	6:C:3490:VAL:HG22	2.05	0.57
6:C:3706:ASP:CB	6:C:3715:TYR:HB3	2.34	0.57
6:C:3723:ASP:H	6:C:3739:ILE:HB	1.69	0.57
1:A:258:ARG:HH12	5:E:38:DA:H3'	1.70	0.57
1:A:338:LYS:HD2	1:A:406:ILE:HA	1.86	0.57
1:A:406:ILE:HG23	1:A:407:PRO:C	2.25	0.57
2:B:490:LEU:O	2:B:493:CYS:N	2.36	0.57
5:E:30:DA:H2'	5:E:31:DA:C8	2.39	0.57
6:C:98:GLN:HE21	6:C:143:LEU:HD22	1.69	0.57
6:C:657:SER:O	6:C:661:PRO:HD2	2.04	0.57
6:C:708:VAL:O	6:C:710:PHE:N	2.37	0.57
6:C:751:ALA:O	6:C:755:ALA:HB3	2.04	0.57
6:C:908:ASP:OD1	6:C:910:PHE:N	2.27	0.57
6:C:2002:LYS:HA	6:C:2005:ILE:HG12	1.86	0.57
6:C:2144:LEU:HA	6:C:2147:ALA:HB3	1.85	0.57
6:C:2361:ILE:CD1	6:C:2365:ASN:HD21	2.17	0.57
6:C:2890:ILE:CG1	6:C:2921:LEU:HD21	2.35	0.57
6:C:2952:ILE:HD13	6:C:2972:TYR:HE2	1.68	0.57
6:C:3459:ASN:HB3	6:C:3462:ARG:HE	1.70	0.57
6:C:3535:ILE:HG13	6:C:3536:SER:H	1.69	0.57
1:A:368:VAL:H	1:A:434:LEU:CD1	2.17	0.57
2:B:234:LEU:HD21	2:B:483:PRO:HG3	1.86	0.57
2:B:435:PHE:CZ	2:B:438:LEU:HG	2.40	0.57
2:B:454:VAL:O	2:B:458:ILE:HG13	2.05	0.57
6:C:568:PHE:HE1	6:C:604:PRO:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:922:SER:O	6:C:926:THR:N	2.36	0.57
6:C:1049:GLN:O	6:C:1052:SER:OG	2.18	0.57
6:C:1133:HIS:O	6:C:1136:ARG:NH1	2.37	0.57
6:C:1424:THR:O	6:C:1428:ILE:HG22	2.05	0.57
6:C:2146:LEU:HD22	6:C:2149:LEU:HD11	1.86	0.57
6:C:3167:ARG:NH2	6:C:3186:ARG:HD2	2.20	0.57
6:C:3289:ARG:HD2	6:C:3291:GLN:HB3	1.85	0.57
6:C:3321:LEU:O	6:C:3324:ARG:N	2.37	0.57
6:C:3529:ILE:HD12	6:C:3530:VAL:H	1.69	0.57
6:C:3550:LYS:HZ2	6:C:3554:PHE:HE2	1.50	0.57
6:C:3726:VAL:HA	6:C:3737:ARG:O	2.04	0.57
6:C:3962:ARG:HD2	6:C:4124:TRP:HB3	1.86	0.57
6:C:3980:MET:O	6:C:3983:ILE:HB	2.05	0.57
6:C:4063:GLU:O	6:C:4066:LEU:HB3	2.04	0.57
1:A:351:LYS:HZ2	1:A:355:LEU:HD13	1.70	0.57
2:B:348:SER:HB2	2:B:388:ASP:HB2	1.86	0.57
2:B:454:VAL:N	2:B:532:LYS:HZ2	2.02	0.57
6:C:224:LEU:HA	6:C:227:LEU:HB3	1.87	0.57
6:C:437:HIS:HB3	6:C:1812:LEU:HB3	1.86	0.57
6:C:1029:CYS:HB3	6:C:1085:ILE:HD11	1.86	0.57
6:C:1076:LEU:HB3	6:C:1127:CYS:SG	2.44	0.57
6:C:1276:VAL:HG13	6:C:1357:LYS:HD3	1.85	0.57
6:C:1593:VAL:HA	6:C:1596:VAL:HB	1.85	0.57
6:C:1861:SER:O	6:C:1865:THR:CB	2.53	0.57
6:C:2401:VAL:O	6:C:2405:VAL:HG13	2.04	0.57
6:C:2470:ARG:HD2	6:C:2474:TYR:CE2	2.39	0.57
6:C:2840:PHE:O	6:C:2843:PHE:HB3	2.05	0.57
6:C:3629:ARG:NH1	6:C:3638:LYS:HZ1	1.99	0.57
6:C:3812:LEU:HD23	6:C:3937:VAL:HG11	1.86	0.57
6:C:3921:GLY:HA3	6:C:3944:HIS:HD2	1.70	0.57
6:C:4077:TYR:CD1	6:C:4080:VAL:HB	2.40	0.57
1:A:41:LEU:HD11	1:A:88:TYR:HD2	1.69	0.57
1:A:95:ASN:CG	1:A:98:ASN:H	2.06	0.57
1:A:388:LYS:HA	1:A:391:GLU:HB2	1.85	0.57
2:B:11:VAL:O	2:B:133:GLU:HG2	2.05	0.57
2:B:15:ASP:HB2	2:B:59:PHE:CE1	2.40	0.57
2:B:332:LYS:HE3	2:B:334:LYS:HZ2	1.70	0.57
6:C:297:LEU:O	6:C:300:TRP:HB3	2.04	0.57
6:C:392:CYS:HA	6:C:413:PHE:CZ	2.39	0.57
6:C:568:PHE:HD1	6:C:610:ALA:HA	1.68	0.57
6:C:602:MET:SD	6:C:725:LEU:HD12	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1007:VAL:O	6:C:1011:GLU:HG2	2.05	0.57
6:C:1156:GLY:O	6:C:1160:SER:N	2.38	0.57
6:C:1579:VAL:C	6:C:1581:GLU:H	2.08	0.57
6:C:1759:LEU:HG	6:C:1892:LYS:HA	1.87	0.57
6:C:2171:LEU:O	6:C:2175:GLU:N	2.38	0.57
6:C:2240:THR:O	6:C:2243:GLU:N	2.37	0.57
6:C:2398:LEU:O	6:C:2402:LEU:CB	2.52	0.57
6:C:2791:ILE:HG22	6:C:2795:GLN:HE21	1.70	0.57
6:C:2861:ILE:O	6:C:2892:LEU:HD11	2.04	0.57
6:C:3069:MET:HA	6:C:3072:GLU:OE1	2.03	0.57
6:C:3758:LEU:HA	6:C:3760:GLN:NE2	2.20	0.57
6:C:4017:GLU:CB	6:C:4031:ILE:HB	2.34	0.57
1:A:416:GLN:HE21	2:B:354:ARG:HD3	1.69	0.57
2:B:17:GLY:HA2	2:B:102:SER:HA	1.87	0.57
2:B:490:LEU:HD12	2:B:493:CYS:HB2	1.85	0.57
5:E:28:DA:H8	5:E:28:DA:H5 ⁷	1.68	0.57
6:C:456:VAL:HG13	6:C:459:ARG:HH21	1.68	0.57
6:C:1038:LYS:HA	6:C:1041:ILE:HB	1.87	0.57
6:C:1362:ASP:HB2	6:C:1364:CYS:SG	2.44	0.57
6:C:1364:CYS:HA	6:C:1367:HIS:ND1	2.20	0.57
6:C:1985:LYS:NZ	6:C:2036:LEU:HB2	2.19	0.57
6:C:2163:HIS:O	6:C:2167:PRO:HD3	2.05	0.57
6:C:2955:SER:O	6:C:2959:ALA:N	2.38	0.57
6:C:3239:LYS:HG2	6:C:3262:LEU:HD13	1.87	0.57
6:C:3357:ARG:HD3	6:C:3380:ARG:HH12	1.70	0.57
6:C:3433:VAL:O	6:C:3436:SER:OG	2.19	0.57
6:C:3450:MET:HA	6:C:3453:ALA:HB3	1.86	0.57
6:C:3492:CYS:SG	6:C:3529:ILE:HB	2.44	0.57
6:C:3493:TRP:HZ2	6:C:3709:GLY:H	1.53	0.57
6:C:3529:ILE:HA	6:C:3715:TYR:OH	2.05	0.57
1:A:534:TYR:OH	2:B:260:ARG:N	2.37	0.57
2:B:404:GLN:NE2	5:E:30:DA:OP1	2.37	0.57
5:E:24:DG:C6	5:E:25:DG:C5	2.93	0.57
6:C:16:GLN:HG3	6:C:17:GLU:N	2.19	0.57
6:C:157:TYR:O	6:C:160:LEU:N	2.38	0.57
6:C:557:SER:HB3	6:C:645:TRP:CZ2	2.40	0.57
6:C:598:PRO:HB2	6:C:1022:ASP:HB2	1.87	0.57
6:C:653:LEU:O	6:C:656:GLN:HG2	2.04	0.57
6:C:809:THR:HG21	6:C:2803:ILE:HG21	1.85	0.57
6:C:882:SER:OG	6:C:3890:MET:O	2.12	0.57
6:C:1418:HIS:HA	6:C:1421:GLU:CD	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1744:LYS:HD3	6:C:1883:ARG:HH21	1.70	0.57
6:C:2525:TRP:O	6:C:2529:THR:OG1	2.12	0.57
6:C:3765:GLU:O	6:C:3768:PHE:N	2.38	0.57
6:C:3923:ARG:HB2	6:C:3962:ARG:HH22	1.70	0.57
6:C:4106:CYS:O	6:C:4108:MET:N	2.38	0.57
1:A:36:ASP:OD1	1:A:162:SER:N	2.38	0.57
1:A:256:LEU:CD2	5:E:37:DT:HI ⁷	2.35	0.57
6:C:23:ASP:HB3	6:C:27:ALA:HB2	1.87	0.57
6:C:665:GLY:HA3	6:C:739:ASN:ND2	2.20	0.57
6:C:994:TRP:C	6:C:998:ASN:HD22	2.07	0.57
6:C:1001:PHE:O	6:C:1004:GLN:HB3	2.05	0.57
6:C:1356:TRP:NE1	6:C:1409:SER:OG	2.38	0.57
6:C:1441:ALA:O	6:C:1445:ARG:HB3	2.05	0.57
6:C:2248:CYS:SG	6:C:2249:LEU:N	2.74	0.57
6:C:2316:TYR:CD1	6:C:2317:ALA:N	2.70	0.57
6:C:2328:ARG:HH22	6:C:2370:SER:HA	1.68	0.57
6:C:2385:LEU:HB3	6:C:2389:PHE:CE2	2.39	0.57
6:C:2386:LEU:HD11	6:C:2401:VAL:HA	1.87	0.57
6:C:2494:ASP:HA	6:C:2497:GLU:CD	2.26	0.57
6:C:2884:LEU:C	6:C:2886:GLN:H	2.08	0.57
6:C:2925:GLU:HB3	6:C:2930:TYR:CG	2.40	0.57
6:C:3011:LEU:O	6:C:3015:SER:CB	2.53	0.57
6:C:3121:LEU:O	6:C:3125:ARG:HG2	2.05	0.57
6:C:3493:TRP:HE1	6:C:3709:GLY:C	2.08	0.57
6:C:3612:ARG:HA	6:C:3615:ALA:HB3	1.85	0.57
2:B:452:ASN:N	2:B:452:ASN:OD1	2.37	0.56
4:D:11:DC:N3	5:E:25:DG:C2	2.72	0.56
6:C:444:ASP:HB3	6:C:530:LEU:HG	1.85	0.56
6:C:796:LEU:HD22	6:C:800:LEU:HD11	1.86	0.56
6:C:1233:SER:O	6:C:1291:LEU:HA	2.04	0.56
6:C:1411:TYR:CE1	6:C:1414:ILE:HG13	2.40	0.56
6:C:1603:GLN:HG3	6:C:1606:ARG:NH2	2.16	0.56
6:C:2052:TYR:O	6:C:2056:SER:N	2.38	0.56
6:C:2404:ARG:O	6:C:2407:GLY:CA	2.53	0.56
6:C:2472:GLN:HE21	6:C:2476:ILE:HG23	1.70	0.56
6:C:2811:SER:O	6:C:2815:GLY:N	2.35	0.56
6:C:3019:ILE:HG12	6:C:3020:ASP:N	2.20	0.56
6:C:3156:PRO:CA	6:C:3160:LEU:H	2.18	0.56
6:C:3931:ALA:O	6:C:3935:GLY:CA	2.53	0.56
1:A:310:LEU:HD11	6:C:163:LYS:HD3	1.87	0.56
1:A:353:LEU:HG	1:A:393:GLU:C	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:56:LEU:HD21	2:B:58:LEU:HD21	1.87	0.56
2:B:187:GLY:H	2:B:232:ARG:HA	1.69	0.56
4:D:-5:DT:H4'	6:C:259:GLN:HE21	1.70	0.56
4:D:-4:DA:H4'	6:C:169:THR:HG22	1.86	0.56
6:C:442:GLN:CD	6:C:443:ILE:HG12	2.25	0.56
6:C:1876:ILE:HG12	6:C:1911:LEU:HD13	1.86	0.56
6:C:2122:LEU:HA	6:C:2127:LYS:HB2	1.87	0.56
6:C:2560:ASN:OD1	6:C:2800:ARG:HG3	2.05	0.56
6:C:2572:TYR:HE1	6:C:2790:LEU:HD23	1.70	0.56
6:C:2781:PRO:O	6:C:2785:ILE:N	2.38	0.56
6:C:2891:ARG:NH2	6:C:3897:PHE:HB3	2.20	0.56
6:C:4013:TRP:O	6:C:4017:GLU:N	2.21	0.56
6:C:4030:GLU:O	6:C:4034:ALA:CB	2.52	0.56
6:C:4077:TYR:O	6:C:4080:VAL:N	2.38	0.56
1:A:40:PHE:CZ	1:A:70:VAL:HB	2.40	0.56
1:A:158:GLN:OE1	1:A:158:GLN:N	2.34	0.56
1:A:189:LYS:NZ	1:A:193:LEU:HB2	2.20	0.56
1:A:244:ARG:HA	1:A:247:ARG:HG2	1.88	0.56
1:A:389:CYS:HA	1:A:394:VAL:HG12	1.86	0.56
1:A:487:PHE:O	1:A:491:GLU:HG3	2.04	0.56
1:A:514:MET:SD	2:B:254:GLY:HA2	2.46	0.56
2:B:88:PHE:HA	2:B:91:LEU:HG	1.87	0.56
2:B:107:PHE:CZ	2:B:138:LEU:HA	2.39	0.56
2:B:353:ARG:HH11	2:B:356:PHE:HD2	1.51	0.56
2:B:513:TRP:HA	2:B:516:LEU:HB2	1.86	0.56
6:C:35:ILE:HG21	6:C:85:ILE:HG13	1.87	0.56
6:C:106:GLU:O	6:C:110:THR:OG1	2.16	0.56
6:C:113:SER:HA	6:C:116:THR:HB	1.87	0.56
6:C:295:GLU:HA	6:C:298:LEU:HD12	1.85	0.56
6:C:300:TRP:O	6:C:304:THR:OG1	2.15	0.56
6:C:349:ILE:O	6:C:352:VAL:HG12	2.06	0.56
6:C:620:PHE:HD1	6:C:623:PHE:CD2	2.23	0.56
6:C:776:TRP:CD2	6:C:780:ILE:HG13	2.40	0.56
6:C:1034:ARG:HH12	6:C:1038:LYS:HB2	1.71	0.56
6:C:1119:LYS:HB3	6:C:1124:ILE:HG21	1.87	0.56
6:C:1227:GLY:HA2	6:C:1287:GLN:NE2	2.20	0.56
6:C:1394:HIS:ND1	6:C:1397:ASP:OD2	2.38	0.56
6:C:1700:THR:HG21	6:C:1733:THR:H	1.69	0.56
6:C:2088:LEU:HD21	6:C:2145:PHE:CD2	2.39	0.56
6:C:2147:ALA:O	6:C:2151:ILE:HG13	2.05	0.56
6:C:2171:LEU:HD12	6:C:2174:SER:OG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2254:ARG:HH11	6:C:2295:GLN:NE2	2.03	0.56
6:C:2336:ILE:HG13	6:C:2337:LEU:N	2.21	0.56
6:C:2350:LYS:HA	6:C:2353:GLN:OE1	2.04	0.56
6:C:2534:ASN:HD22	6:C:2537:ASP:HB2	1.70	0.56
6:C:2942:ILE:HG22	6:C:2945:SER:H	1.69	0.56
6:C:3324:ARG:O	6:C:3327:ASN:HB3	2.04	0.56
6:C:3377:LEU:HA	6:C:3381:ALA:HB2	1.87	0.56
6:C:4089:ILE:HB	6:C:4093:GLU:OE2	2.05	0.56
1:A:91:GLU:OE1	1:A:137:HIS:N	2.33	0.56
1:A:299:LYS:O	2:B:294:VAL:HB	2.05	0.56
1:A:400:TYR:CD2	1:A:402:PRO:HD3	2.41	0.56
1:A:456:PRO:HA	1:A:459:VAL:HG12	1.86	0.56
4:D:10:DG:H22	5:E:25:DG:H22	1.49	0.56
6:C:847:SER:HB2	6:C:850:GLU:CG	2.35	0.56
6:C:908:ASP:HA	6:C:910:PHE:CE2	2.40	0.56
6:C:1038:LYS:HA	6:C:1041:ILE:HD12	1.88	0.56
6:C:1579:VAL:O	6:C:1581:GLU:HG3	2.05	0.56
6:C:3031:TRP:CD1	6:C:3037:GLN:HB2	2.40	0.56
6:C:3459:ASN:O	6:C:3462:ARG:HG2	2.04	0.56
6:C:3493:TRP:CH2	6:C:3707:GLY:HA3	2.41	0.56
6:C:3758:LEU:HG	6:C:3760:GLN:NE2	2.19	0.56
6:C:3864:ARG:HD2	6:C:4115:ASN:OD1	2.06	0.56
1:A:194:ARG:NH2	1:A:218:ARG:O	2.39	0.56
1:A:351:LYS:HE3	1:A:355:LEU:HB3	1.86	0.56
1:A:378:SER:O	1:A:382:PHE:CB	2.33	0.56
1:A:471:PHE:HE1	1:A:473:TYR:HD1	1.51	0.56
2:B:341:SER:C	2:B:393:VAL:HG13	2.25	0.56
5:E:50:DT:H2'	5:E:50:DT:OP2	2.06	0.56
6:C:886:TRP:HE1	6:C:889:GLU:HB2	1.70	0.56
6:C:923:ASP:OD1	6:C:924:ARG:N	2.36	0.56
6:C:929:ALA:HB1	6:C:2798:ALA:HB1	1.88	0.56
6:C:1162:SER:O	6:C:1165:LEU:HG	2.05	0.56
6:C:1275:THR:HA	6:C:1279:LEU:HD12	1.88	0.56
6:C:1366:THR:OG1	6:C:1370:ARG:NH2	2.38	0.56
6:C:1472:SER:HA	6:C:1476:HIS:HD2	1.70	0.56
6:C:1956:PHE:O	6:C:1959:LEU:HB3	2.05	0.56
6:C:2349:LEU:O	6:C:2352:HIS:N	2.38	0.56
6:C:3603:LYS:HA	6:C:3655:LYS:HD3	1.87	0.56
6:C:4076:ASP:O	6:C:4080:VAL:HG23	2.06	0.56
1:A:362:LEU:CG	1:A:363:ARG:H	2.18	0.56
2:B:206:GLU:HA	2:B:209:LYS:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:357:MET:SD	2:B:425:PRO:HA	2.46	0.56
6:C:33:GLN:NE2	6:C:2427:ARG:HA	2.19	0.56
6:C:298:LEU:O	6:C:302:ALA:CB	2.54	0.56
6:C:348:ILE:O	6:C:357:LYS:NZ	2.38	0.56
6:C:914:VAL:HA	6:C:917:LEU:HD12	1.85	0.56
6:C:2380:ASN:O	6:C:2383:PHE:HB3	2.06	0.56
6:C:2434:VAL:HG12	6:C:2438:ILE:HD11	1.87	0.56
6:C:2474:TYR:CD1	6:C:2477:LEU:HD12	2.41	0.56
6:C:2890:ILE:CD1	6:C:2921:LEU:HD11	2.35	0.56
6:C:2972:TYR:HA	6:C:2980:ASP:OD2	2.06	0.56
6:C:4055:ASN:ND2	6:C:4107:LEU:HD11	2.20	0.56
1:A:94:LYS:NZ	1:A:105:LEU:O	2.36	0.56
1:A:254:ARG:H	2:B:431:ARG:NH2	2.00	0.56
1:A:282:LYS:HE2	1:A:284:PRO:HA	1.87	0.56
1:A:368:VAL:HB	1:A:434:LEU:HD11	1.87	0.56
5:E:33:DA:C2	5:E:34:DC:C2	2.94	0.56
6:C:249:PHE:HD1	6:C:268:PRO:HB3	1.71	0.56
6:C:275:PHE:CZ	6:C:280:SER:HA	2.40	0.56
6:C:417:VAL:O	6:C:420:VAL:HB	2.05	0.56
6:C:700:LYS:O	6:C:703:CYS:HB2	2.06	0.56
6:C:756:PHE:N	6:C:756:PHE:CD1	2.73	0.56
6:C:993:HIS:HA	6:C:1038:LYS:HG2	1.88	0.56
6:C:1079:SER:O	6:C:1082:PHE:HB3	2.06	0.56
6:C:1151:ARG:O	6:C:1154:PRO:HD2	2.05	0.56
6:C:1554:SER:HB3	6:C:1558:TYR:CZ	2.40	0.56
6:C:3075:LYS:HE2	6:C:3077:ILE:HD11	1.88	0.56
6:C:3444:ALA:HB2	6:C:3475:TYR:CE2	2.41	0.56
6:C:3510:GLN:HE22	6:C:3517:SER:HB2	1.71	0.56
6:C:3950:THR:O	6:C:3956:PRO:HA	2.05	0.56
6:C:4018:GLN:O	6:C:4021:LEU:HB3	2.05	0.56
6:C:4127:TRP:CE3	6:C:4128:MET:HB2	2.41	0.56
1:A:488:ARG:NH1	1:A:491:GLU:OE2	2.39	0.56
2:B:360:GLN:N	2:B:360:GLN:OE1	2.36	0.56
2:B:426:PHE:O	2:B:429:ASP:N	2.25	0.56
6:C:655:LEU:O	6:C:658:THR:OG1	2.13	0.56
6:C:724:GLU:HA	6:C:728:SER:OG	2.06	0.56
6:C:738:HIS:HA	6:C:741:ILE:CG1	2.18	0.56
6:C:850:GLU:HA	6:C:853:ILE:HD12	1.87	0.56
6:C:1126:GLN:O	6:C:1130:ALA:HB2	2.06	0.56
6:C:1356:TRP:CZ2	6:C:1410:PRO:HA	2.41	0.56
6:C:1970:LYS:NZ	6:C:2044:ASP:OD1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2808:LEU:HB2	6:C:2809:PHE:HD1	1.71	0.56
6:C:2851:PHE:CD1	6:C:2852:PRO:HD3	2.40	0.56
6:C:2865:HIS:N	6:C:2868:LEU:HD22	2.20	0.56
6:C:3031:TRP:HE3	6:C:3032:SER:C	2.08	0.56
6:C:3130:GLN:HE22	6:C:3177:ASN:HB3	1.71	0.56
6:C:3172:LYS:HD2	6:C:3179:TRP:CD1	2.40	0.56
6:C:3815:LEU:HD23	6:C:3818:ASN:ND2	2.21	0.56
6:C:3951:GLN:NE2	6:C:4064:LEU:O	2.39	0.56
2:B:302:GLU:OE2	6:C:116:THR:HG23	2.05	0.56
4:D:16:DG:H1	5:E:19:DC:H2'	1.70	0.56
6:C:661:PRO:HB3	6:C:737:PRO:HD3	1.88	0.56
6:C:913:ARG:HA	6:C:916:GLU:OE1	2.06	0.56
6:C:973:ALA:HB3	6:C:981:ARG:HB2	1.86	0.56
6:C:1605:PHE:O	6:C:1609:ALA:N	2.38	0.56
6:C:1752:LEU:HD23	6:C:1892:LYS:HE2	1.87	0.56
6:C:1800:SER:O	6:C:1803:GLU:HG2	2.05	0.56
6:C:2327:LEU:HD12	6:C:2330:VAL:HG12	1.88	0.56
6:C:2397:CYS:HB3	6:C:2432:GLN:NE2	2.20	0.56
6:C:3572:ILE:HA	6:C:3575:LEU:HB3	1.88	0.56
1:A:142:SER:O	1:A:146:VAL:HG23	2.05	0.56
1:A:150:CYS:HA	1:A:153:LEU:HD12	1.88	0.56
1:A:367:PHE:CE2	1:A:369:TYR:HB2	2.40	0.56
1:A:419:GLU:N	1:A:426:GLN:HE22	2.01	0.56
2:B:446:PRO:HG2	2:B:451:LEU:HD11	1.87	0.56
4:D:3:DT:H3'	4:D:4:DA:C8	2.34	0.56
6:C:185:HIS:N	6:C:186:PRO:HD2	2.21	0.56
6:C:340:TYR:O	6:C:344:GLN:HG2	2.05	0.56
6:C:608:PRO:O	6:C:612:LEU:HB2	2.06	0.56
6:C:1103:ALA:O	6:C:1107:TYR:HB3	2.06	0.56
6:C:1133:HIS:HB3	6:C:1136:ARG:NH1	2.19	0.56
6:C:1330:TYR:O	6:C:1334:LYS:HD3	2.05	0.56
6:C:2114:GLU:HB2	6:C:2120:ARG:CZ	2.36	0.56
6:C:2142:ILE:HA	6:C:2145:PHE:CE1	2.41	0.56
6:C:2829:LYS:O	6:C:2833:THR:HG23	2.06	0.56
6:C:3247:ARG:NE	6:C:3324:ARG:HH22	2.04	0.56
6:C:3821:SER:HB3	6:C:3826:ALA:O	2.05	0.56
1:A:404:ARG:CD	5:E:36:DA:H3'	2.36	0.55
2:B:138:LEU:HB3	2:B:204:GLY:HA3	1.87	0.55
2:B:520:ALA:O	2:B:524:THR:OG1	2.18	0.55
4:D:-7:DA:H2'	4:D:-6:DT:H6	1.71	0.55
6:C:442:GLN:HE22	6:C:461:ILE:CG1	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:752:LEU:HB3	6:C:756:PHE:CE2	2.41	0.55
6:C:928:VAL:HG23	6:C:929:ALA:N	2.21	0.55
6:C:1039:TRP:CH2	6:C:1049:GLN:HA	2.41	0.55
6:C:1514:LEU:HD21	6:C:1581:GLU:HB3	1.88	0.55
6:C:1632:TRP:CD1	6:C:1635:LYS:HD2	2.41	0.55
6:C:1687:HIS:O	6:C:1691:GLN:HB3	2.06	0.55
6:C:2242:VAL:CA	6:C:2245:TRP:HD1	2.18	0.55
6:C:2260:PHE:CG	6:C:2277:LEU:HD11	2.41	0.55
6:C:2286:PRO:O	6:C:2333:ARG:NH1	2.30	0.55
6:C:2375:ALA:HA	6:C:2378:PHE:CZ	2.41	0.55
6:C:2510:LEU:O	6:C:2519:LEU:HD13	2.06	0.55
6:C:2851:PHE:CG	6:C:2852:PRO:HD3	2.41	0.55
6:C:3025:PRO:HA	6:C:3067:LYS:HD2	1.88	0.55
6:C:3062:LEU:HA	6:C:3065:ILE:HG22	1.88	0.55
6:C:3296:GLN:HA	6:C:3299:THR:HB	1.87	0.55
6:C:3791:TYR:HB3	6:C:3940:ILE:HG13	1.87	0.55
6:C:4103:GLN:O	6:C:4107:LEU:HB2	2.07	0.55
1:A:445:LYS:HD2	1:A:446:MET:H	1.71	0.55
2:B:149:ILE:HA	2:B:152:HIS:CE1	2.42	0.55
6:C:277:LEU:O	6:C:281:GLN:HG3	2.06	0.55
6:C:333:MET:O	6:C:337:LYS:HB2	2.05	0.55
6:C:649:PHE:HZ	6:C:717:LYS:HZ1	1.54	0.55
6:C:794:PRO:HA	6:C:869:ASN:CG	2.25	0.55
6:C:1000:LYS:HE3	6:C:1052:SER:CB	2.36	0.55
6:C:1229:CYS:HB3	6:C:1287:GLN:HG2	1.87	0.55
6:C:1682:THR:O	6:C:1685:ASP:HB2	2.05	0.55
6:C:2047:THR:O	6:C:2050:GLN:HG2	2.06	0.55
6:C:2886:GLN:CD	6:C:2925:GLU:HG2	2.27	0.55
6:C:2966:SER:O	6:C:2970:LYS:HB3	2.04	0.55
6:C:3026:ASP:OD1	6:C:3029:LYS:HD2	2.06	0.55
6:C:3166:ASN:HB3	6:C:3186:ARG:HH12	1.71	0.55
6:C:3721:GLY:N	6:C:3741:ARG:O	2.39	0.55
6:C:4002:MET:CA	6:C:4005:PHE:HB3	2.36	0.55
1:A:115:ARG:HA	1:A:118:GLU:CD	2.27	0.55
1:A:127:GLY:O	1:A:131:PHE:HB3	2.06	0.55
1:A:166:ILE:O	1:A:200:LEU:HA	2.06	0.55
1:A:289:TYR:O	1:A:292:THR:OG1	2.21	0.55
2:B:66:ASN:HD21	2:B:74:TYR:HB3	1.72	0.55
2:B:316:TYR:N	2:B:319:ASP:O	2.36	0.55
5:E:35:DC:C2	5:E:36:DA:C5	2.95	0.55
6:C:625:ASN:HA	6:C:659:ARG:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1976:LEU:HB3	6:C:1981:LEU:HD22	1.88	0.55
6:C:2549:LYS:HG2	6:C:2551:GLU:HB3	1.88	0.55
6:C:3117:ILE:HG12	6:C:3125:ARG:NH2	2.22	0.55
6:C:3538:GLU:N	6:C:3796:MET:O	2.40	0.55
6:C:4015:ASN:O	6:C:4018:GLN:HB3	2.06	0.55
6:C:4087:HIS:HB3	6:C:4090:ARG:HD3	1.88	0.55
1:A:90:THR:CG2	1:A:138:GLY:H	2.19	0.55
1:A:352:PRO:CD	2:B:464:ALA:HB3	2.36	0.55
1:A:427:VAL:O	2:B:354:ARG:NH2	2.39	0.55
6:C:224:LEU:HD21	6:C:271:GLY:HA3	1.87	0.55
6:C:386:VAL:HG22	6:C:431:TYR:OH	2.07	0.55
6:C:569:VAL:HG13	6:C:570:LYS:H	1.70	0.55
6:C:611:ASN:HA	6:C:614:PRO:HG2	1.87	0.55
6:C:763:THR:HB	6:C:766:ALA:H	1.72	0.55
6:C:980:THR:O	6:C:984:TYR:HD2	1.88	0.55
6:C:1296:PHE:O	6:C:1299:GLU:N	2.39	0.55
6:C:1683:LYS:HB3	6:C:1687:HIS:NE2	2.21	0.55
6:C:1904:CYS:SG	6:C:1944:ALA:HB1	2.47	0.55
6:C:1940:TYR:HA	6:C:1943:ALA:HB3	1.88	0.55
6:C:2423:VAL:HG22	6:C:2424:MET:HA	1.89	0.55
6:C:2833:THR:O	6:C:2836:LEU:N	2.39	0.55
6:C:2920:VAL:O	6:C:2923:TRP:HB2	2.07	0.55
6:C:2945:SER:OG	6:C:2991:LYS:HD3	2.07	0.55
6:C:2971:GLN:HA	6:C:2974:GLU:HB3	1.88	0.55
6:C:3326:GLN:NE2	6:C:3389:VAL:O	2.26	0.55
6:C:3760:GLN:HG2	6:C:3761:ASP:H	1.70	0.55
1:A:63:SER:O	1:A:67:ILE:HD12	2.07	0.55
1:A:232:HIS:CD2	1:A:423:GLN:HB2	2.41	0.55
1:A:403:ARG:NE	5:E:36:DA:O3'	2.40	0.55
1:A:418:GLU:OE2	2:B:438:LEU:N	2.40	0.55
6:C:1959:LEU:O	6:C:1963:GLN:HG2	2.07	0.55
6:C:2559:THR:OG1	6:C:2560:ASN:N	2.39	0.55
6:C:2886:GLN:HE21	6:C:2921:LEU:C	2.09	0.55
6:C:3350:GLU:HA	6:C:3373:VAL:N	2.21	0.55
6:C:3466:PRO:HB2	6:C:3470:GLN:NE2	2.21	0.55
6:C:3495:PHE:HE2	6:C:3499:ILE:HA	1.67	0.55
6:C:3632:PHE:CE1	6:C:3682:GLU:HB2	2.42	0.55
6:C:3692:VAL:HA	6:C:3696:ARG:HG2	1.86	0.55
6:C:3988:LEU:O	6:C:3991:PHE:N	2.38	0.55
1:A:58:THR:O	1:A:61:ASP:N	2.39	0.55
1:A:65:GLN:CG	1:A:123:LYS:HE2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:VAL:O	1:A:149:VAL:HB	2.07	0.55
1:A:260:LYS:HA	1:A:270:SER:HA	1.88	0.55
1:A:267:ILE:HG13	2:B:539:LEU:HD21	1.89	0.55
2:B:18:PHE:CD1	2:B:102:SER:HB3	2.42	0.55
2:B:107:PHE:O	2:B:111:LEU:HD13	2.06	0.55
2:B:186:GLY:HA2	2:B:232:ARG:HG2	1.87	0.55
2:B:412:ILE:HA	2:B:417:GLU:CG	2.37	0.55
5:E:23:DT:C4	5:E:24:DG:C5	2.95	0.55
6:C:215:PRO:HG3	6:C:220:LEU:HD11	1.88	0.55
6:C:359:LEU:HD12	6:C:408:TYR:CZ	2.41	0.55
6:C:604:PRO:HB2	6:C:610:ALA:HB2	1.87	0.55
6:C:759:GLY:O	6:C:770:LEU:HD11	2.07	0.55
6:C:988:VAL:HG21	6:C:1031:ARG:NE	2.22	0.55
6:C:1390:GLN:HA	6:C:1393:ALA:HB3	1.89	0.55
6:C:1718:ILE:HG12	6:C:1728:GLU:CD	2.27	0.55
6:C:1876:ILE:O	6:C:1911:LEU:HD13	2.07	0.55
6:C:2343:GLU:O	6:C:2346:ALA:HB3	2.07	0.55
6:C:2472:GLN:OE1	6:C:2475:ASN:ND2	2.29	0.55
6:C:3258:LEU:HA	6:C:3261:GLU:HB3	1.89	0.55
6:C:3454:LEU:HD23	6:C:3454:LEU:O	2.06	0.55
6:C:4055:ASN:OD1	6:C:4058:VAL:N	2.39	0.55
1:A:36:ASP:CG	1:A:162:SER:H	2.10	0.55
1:A:108:LEU:CD1	1:A:156:ASP:HB2	2.37	0.55
1:A:378:SER:HA	1:A:382:PHE:H	1.71	0.55
2:B:400:ARG:NE	4:D:10:DG:N3	2.54	0.55
6:C:260:ILE:O	6:C:263:LYS:N	2.26	0.55
6:C:609:ALA:O	6:C:613:HIS:HB3	2.04	0.55
6:C:1689:LYS:NZ	6:C:1727:ARG:HB3	2.22	0.55
6:C:1924:THR:HA	6:C:1927:MET:HB2	1.89	0.55
6:C:2402:LEU:O	6:C:2405:VAL:HG22	2.07	0.55
6:C:3098:ARG:O	6:C:3102:TYR:HB2	2.07	0.55
6:C:3622:ALA:HB3	6:C:3625:LEU:HB2	1.88	0.55
6:C:3703:GLY:N	6:C:3706:ASP:OD1	2.40	0.55
6:C:3733:ARG:NH1	6:C:3755:GLY:H	2.04	0.55
6:C:3920:ILE:HG23	6:C:4124:TRP:CH2	2.42	0.55
1:A:319:SER:O	2:B:277:THR:N	2.40	0.55
1:A:534:TYR:OH	2:B:250:ARG:HG2	2.06	0.55
2:B:24:ILE:HD12	2:B:30:PRO:HD3	1.88	0.55
6:C:171:LEU:O	6:C:174:VAL:HB	2.07	0.55
6:C:204:LEU:HD12	6:C:223:CYS:HB2	1.88	0.55
6:C:362:ALA:HB2	6:C:408:TYR:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:803:SER:O	6:C:855:VAL:HG21	2.06	0.55
6:C:1524:LEU:HD12	6:C:1563:PHE:HD2	1.72	0.55
6:C:2006:GLU:O	6:C:2008:ARG:HG3	2.06	0.55
6:C:2236:GLU:O	6:C:2240:THR:HG23	2.07	0.55
6:C:2468:THR:HA	6:C:2471:GLU:CD	2.26	0.55
6:C:2792:THR:HA	6:C:2795:GLN:CD	2.27	0.55
6:C:2803:ILE:HG23	6:C:2804:ILE:N	2.21	0.55
6:C:2969:ALA:HA	6:C:2972:TYR:CZ	2.42	0.55
6:C:3387:GLU:O	6:C:3391:ALA:CB	2.55	0.55
6:C:3836:PRO:HB3	6:C:4127:TRP:HZ3	1.70	0.55
6:C:3885:ARG:O	6:C:3888:VAL:HB	2.06	0.55
1:A:142:SER:O	1:A:145:GLU:HB2	2.07	0.55
1:A:256:LEU:HD21	5:E:37:DT:H1'	1.89	0.55
1:A:319:SER:HB3	2:B:277:THR:HB	1.87	0.55
2:B:68:LEU:HB2	2:B:74:TYR:CZ	2.42	0.55
2:B:70:GLY:O	2:B:74:TYR:HD2	1.90	0.55
2:B:461:MET:HA	2:B:522:VAL:HG13	1.89	0.55
6:C:468:LEU:HD13	6:C:476:ARG:HA	1.89	0.55
6:C:495:VAL:HG21	6:C:528:VAL:HG23	1.87	0.55
6:C:788:TYR:O	6:C:792:ILE:HG12	2.06	0.55
6:C:1154:PRO:HA	6:C:1157:PHE:CD2	2.42	0.55
6:C:1506:SER:HA	6:C:1509:GLN:HG2	1.88	0.55
6:C:1516:GLU:OE1	6:C:1574:ASN:ND2	2.40	0.55
6:C:2467:THR:O	6:C:2470:ARG:N	2.40	0.55
6:C:2559:THR:O	6:C:2562:LEU:N	2.40	0.55
6:C:2808:LEU:O	6:C:2812:LEU:HG	2.07	0.55
6:C:3760:GLN:H	6:C:3760:GLN:CD	2.10	0.55
1:A:145:GLU:HA	1:A:148:TRP:CE2	2.42	0.55
1:A:200:LEU:N	1:A:222:SER:OG	2.40	0.55
1:A:206:LYS:HA	1:A:210:GLY:HA2	1.89	0.55
1:A:387:ILE:O	1:A:391:GLU:HG3	2.07	0.55
1:A:403:ARG:HH21	5:E:36:DA:H1'	1.72	0.55
2:B:330:GLN:HG3	2:B:331:MET:N	2.22	0.55
4:D:8:DT:C2'	4:D:9:DG:H8	2.19	0.55
4:D:15:DG:C2	5:E:21:DA:N1	2.75	0.55
5:E:44:DA:H4'	6:C:260:ILE:HD11	1.88	0.55
6:C:54:GLN:O	6:C:58:VAL:HG23	2.07	0.55
6:C:139:ARG:HB2	6:C:142:ARG:HH11	1.72	0.55
6:C:204:LEU:HD22	6:C:207:GLN:CD	2.27	0.55
6:C:449:TYR:CD2	6:C:454:GLN:HG2	2.42	0.55
6:C:484:HIS:CE1	6:C:555:SER:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1602:ASP:OD1	6:C:1606:ARG:N	2.38	0.55
6:C:2030:TYR:O	6:C:2033:ASP:N	2.34	0.55
6:C:2050:GLN:O	6:C:2053:SER:N	2.39	0.55
6:C:2977:ASN:HB3	6:C:2980:ASP:HB2	1.89	0.55
6:C:3706:ASP:OD1	6:C:3706:ASP:N	2.40	0.55
6:C:4028:ILE:HG23	6:C:4029:GLN:H	1.72	0.55
6:C:4047:ALA:HB1	6:C:4060:THR:HB	1.89	0.55
6:C:4060:THR:HA	6:C:4063:GLU:CD	2.26	0.55
1:A:241:ASP:O	1:A:245:LYS:CB	2.55	0.54
1:A:359:HIS:HB3	1:A:360:HIS:CD2	2.42	0.54
2:B:162:GLN:HE21	2:B:239:LYS:HE3	1.70	0.54
2:B:452:ASN:HA	2:B:455:ASP:OD2	2.06	0.54
6:C:320:LEU:O	6:C:323:VAL:HB	2.08	0.54
6:C:409:GLN:O	6:C:412:SER:HB2	2.06	0.54
6:C:415:GLN:HG2	6:C:463:LYS:HD3	1.89	0.54
6:C:496:VAL:HG23	6:C:497:LEU:HG	1.88	0.54
6:C:870:LEU:HD12	6:C:871:LEU:N	2.23	0.54
6:C:1404:LYS:HA	6:C:1407:LYS:HG3	1.89	0.54
6:C:2242:VAL:O	6:C:2245:TRP:HD1	1.90	0.54
6:C:2386:LEU:HB3	6:C:2404:ARG:HH11	1.72	0.54
6:C:2476:ILE:HG22	6:C:2479:TRP:CE2	2.42	0.54
6:C:2481:HIS:HE1	6:C:2499:PHE:O	1.89	0.54
6:C:2893:LEU:O	6:C:2898:LEU:N	2.28	0.54
6:C:2932:SER:O	6:C:2935:GLU:HG2	2.07	0.54
6:C:2934:GLY:C	6:C:2937:ASP:H	2.09	0.54
6:C:3078:LEU:HA	6:C:3081:HIS:CG	2.42	0.54
6:C:3276:TRP:HB3	6:C:3280:TYR:OH	2.07	0.54
6:C:3592:VAL:HA	6:C:3606:ILE:HD12	1.89	0.54
6:C:3619:ASP:HB2	6:C:3625:LEU:HD22	1.89	0.54
6:C:3631:LYS:NZ	6:C:3686:TRP:HD1	2.05	0.54
6:C:3873:LYS:HA	6:C:3877:LYS:HZ3	1.72	0.54
1:A:143:LEU:H	1:A:185:ARG:HH21	1.55	0.54
1:A:258:ARG:N	5:E:38:DA:OP1	2.35	0.54
1:A:262:LYS:O	1:A:346:MET:HA	2.07	0.54
1:A:404:ARG:HD2	5:E:36:DA:O5'	2.08	0.54
1:A:513:ALA:HA	1:A:516:LYS:HB3	1.89	0.54
2:B:324:SER:O	2:B:328:GLU:HG2	2.06	0.54
2:B:393:VAL:HG12	2:B:394:ARG:O	2.07	0.54
5:E:40:DT:C4	5:E:41:DA:C5	2.94	0.54
5:E:47:DT:H2'	5:E:48:DT:C6	2.42	0.54
6:C:729:CYS:O	6:C:733:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:922:SER:HB3	6:C:925:GLN:HG2	1.89	0.54
6:C:1169:VAL:HG21	6:C:1264:LEU:HD13	1.90	0.54
6:C:1231:GLN:NE2	6:C:1264:LEU:HD11	2.22	0.54
6:C:1432:CYS:O	6:C:1436:LEU:HG	2.07	0.54
6:C:1472:SER:HA	6:C:1476:HIS:CD2	2.41	0.54
6:C:1524:LEU:HD12	6:C:1563:PHE:CD2	2.42	0.54
6:C:2510:LEU:HA	6:C:2522:ARG:CG	2.35	0.54
6:C:2521:ILE:H	6:C:2521:ILE:HD12	1.72	0.54
6:C:2529:THR:OG1	6:C:2530:ARG:N	2.40	0.54
6:C:2790:LEU:O	6:C:2793:PRO:HD2	2.07	0.54
6:C:2884:LEU:HD21	6:C:2925:GLU:OE2	2.07	0.54
6:C:2921:LEU:O	6:C:2924:VAL:HG22	2.07	0.54
6:C:3462:ARG:NH2	6:C:3463:LEU:HD11	2.22	0.54
6:C:3701:ILE:HG13	6:C:3719:ILE:N	2.22	0.54
6:C:3877:LYS:HE3	6:C:3965:ARG:HE	1.72	0.54
1:A:90:THR:HG23	1:A:138:GLY:H	1.72	0.54
1:A:311:LEU:HD11	2:B:288:ASP:O	2.07	0.54
1:A:403:ARG:NH2	5:E:36:DA:H1'	2.23	0.54
2:B:147:LEU:HD12	2:B:148:ASP:N	2.22	0.54
2:B:428:GLU:OE1	2:B:428:GLU:N	2.39	0.54
4:D:-4:DA:H2'	4:D:-4:DA:N3	2.22	0.54
6:C:13:LEU:HD11	6:C:58:VAL:HG22	1.88	0.54
6:C:88:PHE:CD1	6:C:91:ILE:HD11	2.43	0.54
6:C:299:LYS:HA	6:C:303:HIS:HD2	1.72	0.54
6:C:571:SER:OG	6:C:572:VAL:N	2.39	0.54
6:C:572:VAL:HG23	6:C:576:VAL:HG21	1.90	0.54
6:C:749:VAL:CG2	6:C:750:PRO:HD3	2.38	0.54
6:C:913:ARG:HD2	6:C:930:ALA:HA	1.90	0.54
6:C:963:LYS:NZ	6:C:1006:THR:OG1	2.17	0.54
6:C:2254:ARG:HH11	6:C:2295:GLN:HE21	1.55	0.54
6:C:2330:VAL:HG11	6:C:2338:GLU:OE1	2.07	0.54
6:C:2444:PRO:HD2	6:C:2445:LYS:HE3	1.89	0.54
6:C:2774:SER:HB2	6:C:2777:HIS:HD1	1.72	0.54
6:C:3006:ALA:HB1	6:C:3254:LEU:HD21	1.90	0.54
6:C:3514:VAL:HA	6:C:3518:VAL:HB	1.90	0.54
6:C:3650:LYS:O	6:C:3653:ARG:N	2.40	0.54
6:C:3754:GLY:O	6:C:3800:LEU:HB3	2.07	0.54
6:C:4018:GLN:O	6:C:4022:LYS:HG3	2.07	0.54
1:A:152:ASN:O	1:A:155:SER:HB2	2.07	0.54
1:A:343:PRO:CG	1:A:405:ASN:H	2.20	0.54
1:A:367:PHE:HZ	1:A:431:GLY:HA3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:PHE:N	1:A:442:ASP:OD2	2.40	0.54
1:A:479:GLU:HA	2:B:426:PHE:CB	2.37	0.54
2:B:169:LEU:HD13	2:B:205:LEU:HD11	1.90	0.54
5:E:39:DA:H62	5:E:40:DT:H73	1.72	0.54
6:C:461:ILE:HG22	6:C:465:PHE:CZ	2.42	0.54
6:C:556:SER:O	6:C:559:SER:HB2	2.08	0.54
6:C:1091:GLU:HG3	6:C:1137:ILE:HD12	1.88	0.54
6:C:1124:ILE:HD12	6:C:1125:GLN:H	1.72	0.54
6:C:1905:ILE:HG13	6:C:1947:CYS:HB3	1.90	0.54
6:C:1931:ASN:HB2	6:C:1933:LEU:HG	1.89	0.54
6:C:2127:LYS:O	6:C:2130:HIS:NE2	2.41	0.54
6:C:2166:SER:O	6:C:2170:GLN:HB3	2.08	0.54
6:C:2200:ALA:O	6:C:2203:THR:N	2.40	0.54
6:C:2298:GLU:OE1	6:C:2301:GLN:HB2	2.06	0.54
6:C:2450:GLU:O	6:C:2454:LEU:HD13	2.08	0.54
6:C:2472:GLN:NE2	6:C:2475:ASN:HB3	2.23	0.54
6:C:2884:LEU:C	6:C:2886:GLN:N	2.57	0.54
6:C:2916:LEU:HA	6:C:2919:ASP:CG	2.28	0.54
6:C:3156:PRO:O	6:C:3160:LEU:N	2.41	0.54
6:C:3506:LEU:HA	6:C:3510:GLN:OE1	2.07	0.54
6:C:3531:TYR:HE2	6:C:3535:ILE:HG23	1.72	0.54
6:C:3940:ILE:O	6:C:3940:ILE:HG12	2.05	0.54
6:C:3963:LEU:HD11	6:C:3971:MET:SD	2.47	0.54
6:C:4113:ASP:OD2	6:C:4115:ASN:HB3	2.07	0.54
1:A:345:LEU:HD11	1:A:400:TYR:CD1	2.43	0.54
6:C:346:TYR:HD1	6:C:349:ILE:HD12	1.71	0.54
6:C:365:GLY:CA	6:C:368:LEU:HB2	2.37	0.54
6:C:575:ILE:HG13	6:C:578:LYS:HE3	1.88	0.54
6:C:889:GLU:OE2	6:C:3889:ARG:NH1	2.40	0.54
6:C:1062:ARG:HB2	6:C:1066:LEU:HD22	1.90	0.54
6:C:1063:LEU:O	6:C:1067:ALA:CB	2.56	0.54
6:C:1240:THR:HA	6:C:1243:TYR:CD2	2.42	0.54
6:C:1267:TYR:HA	6:C:1270:PHE:CE2	2.43	0.54
6:C:1297:PHE:O	6:C:1301:ILE:HG12	2.06	0.54
6:C:1762:MET:SD	6:C:1896:ILE:HG23	2.48	0.54
6:C:1987:ARG:O	6:C:1990:PHE:HB3	2.08	0.54
6:C:2239:LYS:HD3	6:C:2279:ILE:HG13	1.89	0.54
6:C:2304:VAL:HG21	6:C:2341:LEU:HD11	1.90	0.54
6:C:2413:PHE:CD1	6:C:2442:MET:HG2	2.42	0.54
6:C:2456:ASN:HB2	6:C:2457:PRO:HD3	1.89	0.54
6:C:2459:VAL:HA	6:C:2462:VAL:CG1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2517:LEU:HA	6:C:2520:ILE:HB	1.90	0.54
6:C:3320:ILE:O	6:C:3323:PHE:HB3	2.07	0.54
6:C:3339:ASN:HA	6:C:3342:SER:HB2	1.90	0.54
6:C:3630:ARG:HA	6:C:3686:TRP:CD1	2.42	0.54
6:C:3763:ARG:HA	6:C:3766:GLN:HB2	1.90	0.54
6:C:3987:ALA:O	6:C:3990:ALA:HB3	2.07	0.54
2:B:73:GLN:HG2	2:B:74:TYR:CD2	2.42	0.54
2:B:93:ASP:OD1	2:B:94:ILE:N	2.40	0.54
5:E:41:DA:N1	5:E:42:DA:C5	2.75	0.54
6:C:722:LYS:C	6:C:727:ALA:HB2	2.27	0.54
6:C:970:LEU:HD22	6:C:1031:ARG:HH21	1.72	0.54
6:C:1038:LYS:HD2	6:C:1041:ILE:HB	1.90	0.54
6:C:1045:THR:O	6:C:1049:GLN:N	2.40	0.54
6:C:1890:HIS:ND1	6:C:1937:ARG:HA	2.23	0.54
6:C:2018:ASP:OD2	6:C:2048:GLY:HA3	2.08	0.54
6:C:2256:ILE:CG1	6:C:2259:LYS:HZ3	2.21	0.54
6:C:2260:PHE:O	6:C:2263:LYS:HE3	2.07	0.54
6:C:2296:SER:HB3	6:C:2299:TYR:CE1	2.42	0.54
6:C:2381:ALA:O	6:C:2385:LEU:HD13	2.07	0.54
6:C:2507:ILE:HD12	6:C:2530:ARG:HH21	1.71	0.54
6:C:2936:TYR:O	6:C:2939:LEU:HB2	2.08	0.54
6:C:2938:VAL:HA	6:C:3975:LYS:NZ	2.23	0.54
6:C:3097:ASP:O	6:C:3100:LYS:HB3	2.08	0.54
6:C:3130:GLN:CD	6:C:3178:ILE:HG12	2.28	0.54
6:C:3459:ASN:CB	6:C:3462:ARG:HE	2.20	0.54
6:C:3570:ASP:O	6:C:3573:ASN:HB3	2.08	0.54
1:A:403:ARG:HD2	5:E:37:DT:C4'	2.37	0.54
2:B:242:ARG:HG3	2:B:243:HIS:O	2.08	0.54
6:C:415:GLN:HG3	6:C:460:ALA:HA	1.90	0.54
6:C:557:SER:O	6:C:645:TRP:HH2	1.91	0.54
6:C:642:PHE:CZ	6:C:646:VAL:HG11	2.43	0.54
6:C:659:ARG:O	6:C:662:LEU:N	2.40	0.54
6:C:731:THR:OG1	6:C:732:PHE:N	2.39	0.54
6:C:741:ILE:O	6:C:745:VAL:HG23	2.07	0.54
6:C:1433:ALA:O	6:C:1436:LEU:N	2.40	0.54
6:C:1916:ILE:HA	6:C:1919:CYS:SG	2.47	0.54
6:C:2187:VAL:O	6:C:2191:ALA:HB3	2.06	0.54
6:C:3031:TRP:HZ2	6:C:3038:GLU:HB2	1.72	0.54
6:C:3659:PHE:HA	6:C:3662:ILE:HB	1.88	0.54
6:C:4031:ILE:HG13	6:C:4032:ASN:N	2.21	0.54
1:A:155:SER:N	6:C:2384:PHE:HE1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:ALA:O	1:A:190:ALA:HB2	2.08	0.54
1:A:407:PRO:HB2	2:B:485:PRO:HG2	1.90	0.54
2:B:61:THR:O	2:B:103:GLN:HB3	2.08	0.54
2:B:129:LYS:NZ	2:B:239:LYS:O	2.41	0.54
2:B:292:GLU:HB3	2:B:294:VAL:CG2	2.36	0.54
5:E:47:DT:C4	5:E:48:DT:O4	2.61	0.54
6:C:127:ALA:O	6:C:130:LEU:HB2	2.08	0.54
6:C:197:PHE:HZ	6:C:223:CYS:HA	1.72	0.54
6:C:327:VAL:HA	6:C:334:HIS:CD2	2.42	0.54
6:C:384:MET:C	6:C:386:VAL:H	2.11	0.54
6:C:472:GLY:O	6:C:474:VAL:HG22	2.07	0.54
6:C:544:ILE:HG22	6:C:547:ASP:H	1.73	0.54
6:C:852:ARG:HE	6:C:3111:MET:HA	1.73	0.54
6:C:1015:ASP:O	6:C:1025:LEU:HD21	2.07	0.54
6:C:1917:LYS:NZ	6:C:1956:PHE:HA	2.20	0.54
6:C:1941:HIS:O	6:C:1945:TYR:HB3	2.08	0.54
6:C:2084:GLU:HG2	6:C:2177:ASN:O	2.08	0.54
6:C:2448:PRO:HB2	6:C:2450:GLU:OE1	2.08	0.54
6:C:2916:LEU:HA	6:C:2919:ASP:OD2	2.07	0.54
6:C:3040:TYR:HA	6:C:3043:TYR:CE2	2.43	0.54
6:C:3122:HIS:CG	6:C:3123:GLN:N	2.76	0.54
6:C:3491:PRO:O	6:C:3494:GLN:HG2	2.08	0.54
6:C:3760:GLN:OE1	6:C:3760:GLN:N	2.32	0.54
6:C:3768:PHE:HB3	6:C:3788:LEU:HD11	1.89	0.54
1:A:94:LYS:HD3	1:A:104:VAL:O	2.07	0.54
2:B:426:PHE:N	2:B:429:ASP:OD2	2.27	0.54
2:B:448:GLU:HA	2:B:451:LEU:HD12	1.89	0.54
2:B:526:SER:O	2:B:530:LEU:HG	2.07	0.54
4:D:10:DG:N2	5:E:26:DC:C2	2.73	0.54
6:C:70:ARG:NH2	6:C:75:SER:HA	2.13	0.54
6:C:212:VAL:O	6:C:214:GLU:HG2	2.07	0.54
6:C:277:LEU:H	6:C:280:SER:HB3	1.70	0.54
6:C:291:VAL:HG13	6:C:344:GLN:HE21	1.73	0.54
6:C:431:TYR:HA	6:C:434:VAL:HG12	1.89	0.54
6:C:886:TRP:CZ2	6:C:890:LYS:HB2	2.42	0.54
6:C:1239:PRO:O	6:C:1242:LEU:N	2.41	0.54
6:C:1493:PRO:HB2	6:C:1496:GLU:H	1.72	0.54
6:C:1679:LEU:O	6:C:1682:THR:HB	2.08	0.54
6:C:1680:ALA:O	6:C:1683:LYS:HB2	2.08	0.54
6:C:2040:MET:HA	6:C:2043:PHE:CZ	2.43	0.54
6:C:3028:ASN:C	6:C:3030:ILE:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3101:TYR:O	6:C:3104:GLN:HB3	2.07	0.54
6:C:3487:ILE:O	6:C:3524:ASN:ND2	2.30	0.54
6:C:3759:ARG:HD3	6:C:4011:PHE:CE2	2.41	0.54
6:C:4017:GLU:HA	6:C:4020:MET:HE2	1.89	0.54
1:A:277:VAL:HB	2:B:429:ASP:HA	1.90	0.54
1:A:312:LEU:O	1:A:315:ASP:N	2.41	0.54
1:A:332:GLU:HA	1:A:335:GLU:HG2	1.89	0.54
5:E:18:DG:H1'	5:E:19:DC:H5'	1.90	0.54
6:C:150:GLY:O	6:C:153:PHE:N	2.41	0.54
6:C:649:PHE:HA	6:C:656:GLN:NE2	2.20	0.54
6:C:938:VAL:HG13	6:C:959:TYR:HE1	1.73	0.54
6:C:981:ARG:NE	6:C:1026:ARG:HH22	2.05	0.54
6:C:990:GLN:HA	6:C:2776:ARG:HD2	1.89	0.54
6:C:1010:LEU:HA	6:C:1013:ILE:CG1	2.37	0.54
6:C:1059:LEU:HD23	6:C:1062:ARG:NH1	2.23	0.54
6:C:1356:TRP:HZ2	6:C:1409:SER:O	1.91	0.54
6:C:1740:VAL:O	6:C:1744:LYS:HB3	2.08	0.54
6:C:2159:PRO:O	6:C:2162:LYS:HB2	2.08	0.54
6:C:2235:LEU:HA	6:C:2238:ILE:HD13	1.90	0.54
6:C:2238:ILE:HA	6:C:2241:LEU:HD12	1.89	0.54
6:C:2264:ASP:HB3	6:C:2265:PRO:HD2	1.90	0.54
6:C:3031:TRP:HD1	6:C:3037:GLN:OE1	1.91	0.54
6:C:3151:LEU:HD12	6:C:3152:SER:HA	1.90	0.54
6:C:3329:LEU:HD11	6:C:3388:ALA:HB3	1.89	0.54
6:C:3424:LEU:O	6:C:3427:GLU:N	2.41	0.54
6:C:3778:ASP:HB3	6:C:3781:CYS:SG	2.48	0.54
6:C:3884:LYS:HZ2	6:C:3970:LEU:CA	2.21	0.54
6:C:3923:ARG:NH1	6:C:3939:GLY:HA2	2.23	0.54
6:C:3952:PHE:HA	6:C:4030:GLU:OE2	2.08	0.54
6:C:4017:GLU:HB3	6:C:4031:ILE:HB	1.89	0.54
1:A:243:LEU:O	1:A:247:ARG:HG2	2.08	0.53
1:A:337:LEU:O	2:B:489:ARG:NE	2.41	0.53
1:A:419:GLU:OE2	1:A:425:ILE:HG13	2.08	0.53
1:A:465:ILE:HG13	1:A:525:PHE:CE2	2.42	0.53
6:C:193:ALA:O	6:C:197:PHE:N	2.25	0.53
6:C:266:ALA:HA	6:C:269:SER:HB3	1.90	0.53
6:C:677:ALA:HB2	6:C:704:PHE:HB3	1.89	0.53
6:C:898:PHE:CD1	6:C:2567:SER:HB3	2.43	0.53
6:C:988:VAL:O	6:C:992:ILE:HG23	2.07	0.53
6:C:1338:VAL:O	6:C:1342:MET:HB2	2.07	0.53
6:C:1565:GLU:C	6:C:1567:ILE:H	2.10	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1957:ASN:N	6:C:1960:LYS:HE3	2.22	0.53
6:C:1994:VAL:HG22	6:C:1998:MET:SD	2.48	0.53
6:C:2171:LEU:HB2	6:C:2185:MET:SD	2.47	0.53
6:C:2390:HIS:CE1	6:C:2426:HIS:HB3	2.44	0.53
6:C:2397:CYS:O	6:C:2401:VAL:CB	2.37	0.53
6:C:2470:ARG:HB3	6:C:2474:TYR:HE2	1.73	0.53
6:C:2474:TYR:HA	6:C:2477:LEU:HD12	1.89	0.53
6:C:2558:ALA:HA	6:C:2561:PHE:CD2	2.43	0.53
6:C:3182:ILE:HG13	6:C:3183:ILE:N	2.23	0.53
6:C:3504:ALA:HB3	6:C:4008:GLU:OE2	2.07	0.53
6:C:3549:HIS:O	6:C:3553:GLU:HG2	2.08	0.53
6:C:3678:GLY:HA3	6:C:3734:ARG:NH2	2.23	0.53
6:C:4055:ASN:CG	6:C:4058:VAL:H	2.11	0.53
1:A:290:ARG:NE	2:B:309:ASP:O	2.41	0.53
1:A:310:LEU:HD11	6:C:163:LYS:HZ2	1.73	0.53
1:A:334:THR:O	1:A:337:LEU:HG	2.08	0.53
1:A:383:SER:OG	1:A:384:ALA:N	2.41	0.53
2:B:509:GLN:O	2:B:511:HIS:ND1	2.41	0.53
6:C:788:TYR:O	6:C:791:ASP:CB	2.50	0.53
6:C:2274:ILE:HG13	6:C:2275:GLN:H	1.73	0.53
6:C:2473:MET:HE3	6:C:2474:TYR:CE1	2.43	0.53
6:C:2797:VAL:HG23	6:C:2798:ALA:H	1.73	0.53
6:C:2906:PRO:HG3	6:C:2943:PHE:HB3	1.90	0.53
6:C:3386:SER:HA	6:C:3419:PHE:CZ	2.44	0.53
6:C:3819:THR:O	6:C:3823:GLU:HB3	2.08	0.53
6:C:4102:THR:OG1	6:C:4103:GLN:N	2.41	0.53
1:A:92:LYS:HB3	1:A:135:MET:O	2.08	0.53
1:A:154:PHE:O	1:A:157:VAL:HG12	2.07	0.53
1:A:186:ALA:O	1:A:190:ALA:CB	2.56	0.53
1:A:254:ARG:N	2:B:431:ARG:HH21	2.05	0.53
1:A:328:ILE:HG21	2:B:284:LEU:HD21	1.91	0.53
1:A:354:VAL:HG22	1:A:393:GLU:OE2	2.09	0.53
2:B:205:LEU:HG	2:B:209:LYS:HE3	1.89	0.53
5:E:46:DT:H2'	5:E:47:DT:H71	1.89	0.53
6:C:457:CYS:O	6:C:460:ALA:HB3	2.08	0.53
6:C:730:LEU:O	6:C:733:LEU:HB2	2.08	0.53
6:C:897:PRO:HG2	6:C:2571:ASP:HA	1.89	0.53
6:C:1163:LEU:HA	6:C:1256:TRP:HB3	1.89	0.53
6:C:1400:VAL:HG21	6:C:1460:ARG:HB2	1.91	0.53
6:C:1718:ILE:HD12	6:C:1746:PHE:CD2	2.43	0.53
6:C:2088:LEU:HD21	6:C:2145:PHE:HD2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2266:ASN:HD22	6:C:2312:TYR:HE2	1.57	0.53
6:C:2418:LYS:O	6:C:2422:GLN:HG3	2.07	0.53
6:C:2534:ASN:HD21	6:C:2537:ASP:H	1.55	0.53
6:C:3052:LEU:HD21	6:C:3089:LEU:HA	1.90	0.53
6:C:3287:ARG:NH1	6:C:3327:ASN:OD1	2.41	0.53
6:C:3620:PRO:O	6:C:3629:ARG:HD3	2.09	0.53
6:C:3924:HIS:ND1	6:C:3926:ASN:OD1	2.40	0.53
1:A:348:MET:HB2	1:A:397:LEU:HG	1.91	0.53
2:B:233:LYS:HA	2:B:481:LYS:HB3	1.90	0.53
4:D:11:DC:C2	5:E:25:DG:C2	2.97	0.53
6:C:89:LEU:O	6:C:92:PHE:N	2.40	0.53
6:C:295:GLU:C	6:C:299:LYS:HZ3	2.11	0.53
6:C:787:PRO:HD2	6:C:788:TYR:CE2	2.44	0.53
6:C:1037:LEU:O	6:C:1041:ILE:N	2.30	0.53
6:C:1648:LEU:O	6:C:1651:LYS:HB2	2.09	0.53
6:C:2307:MET:O	6:C:2315:VAL:HG21	2.08	0.53
6:C:2450:GLU:HA	6:C:2453:GLU:OE1	2.08	0.53
6:C:2936:TYR:HB2	6:C:2953:THR:HG21	1.89	0.53
6:C:3123:GLN:O	6:C:3127:THR:OG1	2.12	0.53
6:C:4013:TRP:CZ3	6:C:4040:PRO:HD2	2.43	0.53
6:C:4060:THR:O	6:C:4063:GLU:HB2	2.08	0.53
1:A:65:GLN:O	1:A:69:SER:OG	2.19	0.53
1:A:213:ILE:HD12	1:A:217:TYR:CZ	2.43	0.53
2:B:487:PHE:HB2	2:B:491:PHE:CZ	2.43	0.53
6:C:491:CYS:HA	6:C:527:TYR:CE1	2.43	0.53
6:C:881:LYS:HG3	6:C:883:TYR:CE2	2.35	0.53
6:C:964:ARG:O	6:C:967:PRO:HG2	2.08	0.53
6:C:985:GLU:HG2	6:C:1031:ARG:HH22	1.73	0.53
6:C:1970:LYS:HA	6:C:1988:TYR:HB2	1.91	0.53
6:C:2033:ASP:O	6:C:2037:SER:HB2	2.09	0.53
6:C:2308:SER:HB3	6:C:2348:GLN:HE21	1.73	0.53
6:C:2350:LYS:HZ1	6:C:2377:ARG:HB3	1.72	0.53
6:C:2361:ILE:HG13	6:C:2365:ASN:OD1	2.08	0.53
6:C:2398:LEU:HG	6:C:2399:GLU:N	2.22	0.53
6:C:2429:ASP:HA	6:C:2430:GLU:OE2	2.09	0.53
6:C:2825:THR:OG1	6:C:2829:LYS:HE2	2.08	0.53
6:C:2893:LEU:HA	6:C:2897:LEU:HD23	1.89	0.53
6:C:2965:TYR:CE2	6:C:2969:ALA:HB3	2.44	0.53
6:C:2990:GLU:HA	6:C:2993:PHE:HB2	1.90	0.53
6:C:3120:LEU:HA	6:C:3125:ARG:NH1	2.24	0.53
6:C:3145:ILE:HA	6:C:3148:GLN:CD	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3231:ILE:HD12	6:C:3234:CYS:HB3	1.88	0.53
6:C:3506:LEU:HD12	6:C:3513:ALA:HB1	1.90	0.53
1:A:295:PRO:HD2	2:B:298:ASN:ND2	2.24	0.53
1:A:330:GLU:O	1:A:334:THR:HG23	2.09	0.53
1:A:362:LEU:HD12	2:B:359:ASN:HB2	1.89	0.53
1:A:409:TYR:CD1	2:B:485:PRO:HD2	2.43	0.53
2:B:115:MET:HA	2:B:154:LEU:HD21	1.90	0.53
6:C:147:PHE:CD2	6:C:148:LYS:HG3	2.43	0.53
6:C:277:LEU:O	6:C:322:GLN:NE2	2.42	0.53
6:C:327:VAL:HA	6:C:334:HIS:CG	2.43	0.53
6:C:483:VAL:O	6:C:487:LEU:HB3	2.08	0.53
6:C:704:PHE:O	6:C:708:VAL:HG23	2.08	0.53
6:C:727:ALA:O	6:C:728:SER:C	2.45	0.53
6:C:789:TYR:CZ	6:C:790:LYS:HG3	2.44	0.53
6:C:1023:SER:HB3	6:C:1026:ARG:HE	1.74	0.53
6:C:1253:THR:HG22	6:C:1258:ASP:OD1	2.08	0.53
6:C:1437:TYR:CD2	6:C:1441:ALA:HA	2.43	0.53
6:C:2010:GLU:HG2	6:C:2011:ALA:N	2.23	0.53
6:C:2086:ASP:HB3	6:C:2090:ARG:HG3	1.90	0.53
6:C:2384:PHE:O	6:C:2387:PRO:HD2	2.08	0.53
6:C:2416:LYS:O	6:C:2420:PHE:HB3	2.09	0.53
6:C:2519:LEU:HA	6:C:2522:ARG:HB3	1.90	0.53
6:C:2858:ILE:HG23	6:C:3894:PRO:HG2	1.91	0.53
6:C:3048:LYS:O	6:C:3051:LEU:HB2	2.07	0.53
6:C:3322:ALA:HB1	6:C:3392:ALA:HB1	1.91	0.53
6:C:3479:THR:O	6:C:3483:MET:HB2	2.09	0.53
6:C:3564:GLN:OE1	6:C:3565:GLY:N	2.41	0.53
6:C:3962:ARG:HD3	6:C:4124:TRP:CE3	2.44	0.53
6:C:4077:TYR:HE1	6:C:4115:ASN:CG	2.12	0.53
6:C:4089:ILE:HB	6:C:4093:GLU:CD	2.29	0.53
6:C:4091:ALA:C	6:C:4094:PRO:HD2	2.29	0.53
1:A:297:LYS:HG3	1:A:299:LYS:HZ2	1.74	0.53
2:B:264:TYR:CE2	2:B:365:PHE:HB3	2.44	0.53
2:B:377:LEU:HD12	2:B:380:LEU:HD11	1.90	0.53
6:C:242:PRO:O	6:C:246:ARG:HB2	2.09	0.53
6:C:272:LEU:HB3	6:C:319:PHE:CE2	2.43	0.53
6:C:411:PRO:C	6:C:414:LEU:H	2.11	0.53
6:C:771:ASN:O	6:C:775:GLU:HG3	2.09	0.53
6:C:850:GLU:HB3	6:C:854:ARG:NH2	2.22	0.53
6:C:1340:ARG:O	6:C:1343:GLU:HB2	2.08	0.53
6:C:2291:GLN:HA	6:C:2294:ILE:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2325:LEU:HA	6:C:2328:ARG:HB2	1.91	0.53
6:C:2572:TYR:N	6:C:2573:PRO:HD2	2.24	0.53
6:C:2865:HIS:H	6:C:2868:LEU:HD22	1.73	0.53
6:C:3117:ILE:CG1	6:C:3128:LYS:HZ1	2.21	0.53
6:C:3254:LEU:O	6:C:3258:LEU:HD13	2.08	0.53
6:C:3281:CYS:HG	6:C:3285:HIS:CE1	2.27	0.53
6:C:3507:ASP:O	6:C:3545:THR:OG1	2.17	0.53
6:C:3531:TYR:CE1	6:C:3534:ILE:HD12	2.44	0.53
6:C:3543:LYS:NZ	6:C:3545:THR:HA	2.24	0.53
6:C:3578:LEU:HD23	6:C:3630:ARG:HH11	1.74	0.53
6:C:3689:ASP:OD1	6:C:3690:PHE:N	2.42	0.53
6:C:3759:ARG:HG3	6:C:3762:GLN:OE1	2.08	0.53
6:C:3885:ARG:O	6:C:3888:VAL:N	2.40	0.53
1:A:34:GLY:N	1:A:160:LYS:HG3	2.24	0.53
1:A:182:LYS:HG2	1:A:185:ARG:NH1	2.22	0.53
1:A:259:LEU:HD22	1:A:400:TYR:HE1	1.72	0.53
1:A:288:LEU:O	2:B:311:ILE:HG13	2.09	0.53
1:A:332:GLU:O	1:A:335:GLU:HG2	2.09	0.53
1:A:350:PHE:CD2	2:B:458:ILE:HG23	2.43	0.53
1:A:466:VAL:HA	1:A:469:LEU:HB2	1.91	0.53
4:D:-4:DA:N1	5:E:41:DA:C2	2.77	0.53
5:E:42:DA:H2''	5:E:43:DT:OP1	2.08	0.53
6:C:528:VAL:HA	6:C:531:PHE:CZ	2.44	0.53
6:C:787:PRO:HD2	6:C:788:TYR:CZ	2.44	0.53
6:C:1081:ALA:O	6:C:1085:ILE:HG13	2.09	0.53
6:C:1083:ASN:HD22	6:C:1086:TYR:HD2	1.56	0.53
6:C:1650:ALA:O	6:C:1654:GLN:HB2	2.08	0.53
6:C:1863:PHE:O	6:C:1867:ILE:HG12	2.09	0.53
6:C:2363:CYS:C	6:C:2365:ASN:H	2.12	0.53
6:C:2885:GLN:H	6:C:2885:GLN:CD	1.99	0.53
6:C:3091:LEU:HD22	6:C:3189:PHE:HE1	1.73	0.53
6:C:3329:LEU:HD22	6:C:3385:LEU:HD23	1.91	0.53
6:C:3401:TRP:HB2	6:C:3452:LYS:NZ	2.23	0.53
6:C:3751:LEU:HB2	6:C:3805:TRP:HB2	1.91	0.53
6:C:3844:THR:HB	6:C:3849:LYS:HD3	1.90	0.53
6:C:3850:HIS:HE1	6:C:3853:GLY:H	1.54	0.53
1:A:75:ILE:HG12	2:B:316:TYR:CE1	2.44	0.53
1:A:148:TRP:O	1:A:152:ASN:ND2	2.41	0.53
1:A:416:GLN:OE1	1:A:428:THR:HB	2.08	0.53
2:B:10:VAL:HB	2:B:53:GLU:O	2.09	0.53
2:B:345:PHE:CD1	2:B:391:ALA:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:253:LEU:HD21	6:C:297:LEU:HD12	1.91	0.53
6:C:290:TYR:CE2	6:C:294:PHE:HB2	2.44	0.53
6:C:485:GLN:HB3	6:C:1804:MET:HG3	1.91	0.53
6:C:767:GLU:O	6:C:770:LEU:N	2.42	0.53
6:C:1280:GLN:NE2	6:C:1284:THR:HG23	2.23	0.53
6:C:1866:GLN:O	6:C:1869:LYS:HB2	2.09	0.53
6:C:1890:HIS:CE1	6:C:1937:ARG:HA	2.44	0.53
6:C:1921:ASP:HB3	6:C:1959:LEU:HB2	1.90	0.53
6:C:3159:ARG:C	6:C:3161:LEU:H	2.11	0.53
6:C:3165:THR:O	6:C:3169:PRO:HG3	2.08	0.53
6:C:3409:VAL:HG23	6:C:3410:ILE:H	1.73	0.53
6:C:3740:ILE:HG13	6:C:3750:PHE:HD2	1.74	0.53
1:A:91:GLU:CD	1:A:137:HIS:H	2.12	0.53
1:A:204:HIS:CE1	1:A:211:PHE:HB2	2.44	0.53
1:A:470:ARG:HG2	1:A:471:PHE:N	2.24	0.53
6:C:277:LEU:HB2	6:C:280:SER:N	2.15	0.53
6:C:298:LEU:O	6:C:302:ALA:HB3	2.09	0.53
6:C:317:GLU:C	6:C:320:LEU:HB3	2.29	0.53
6:C:636:GLU:OE2	6:C:1495:ASP:N	2.41	0.53
6:C:677:ALA:O	6:C:681:LYS:HB2	2.09	0.53
6:C:1008:ALA:HA	6:C:1011:GLU:HG2	1.91	0.53
6:C:1055:ASN:HB3	6:C:1056:THR:HG23	1.91	0.53
6:C:1378:GLU:HB3	6:C:1379:PRO:HD3	1.91	0.53
6:C:1496:GLU:HA	6:C:1499:CYS:SG	2.49	0.53
6:C:1893:GLU:HG3	6:C:1897:ASN:HD21	1.73	0.53
6:C:2084:GLU:N	6:C:2177:ASN:O	2.26	0.53
6:C:2193:ILE:HD12	6:C:2203:THR:OG1	2.09	0.53
6:C:2547:SER:OG	6:C:2842:ARG:NE	2.33	0.53
6:C:3126:LEU:HD23	6:C:3129:LEU:HD12	1.89	0.53
6:C:4002:MET:O	6:C:4006:VAL:HG22	2.09	0.53
1:A:73:SER:HB2	1:A:246:VAL:HG11	1.90	0.52
1:A:301:ARG:NE	6:C:163:LYS:HB3	2.24	0.52
1:A:520:SER:O	1:A:523:ASP:N	2.25	0.52
5:E:32:DT:H2'	5:E:33:DA:H8	1.72	0.52
5:E:36:DA:C4	5:E:37:DT:C4	2.98	0.52
6:C:389:ILE:O	6:C:392:CYS:HB2	2.09	0.52
6:C:913:ARG:NH1	6:C:916:GLU:OE2	2.42	0.52
6:C:1390:GLN:NE2	6:C:1394:HIS:HB2	2.25	0.52
6:C:2238:ILE:N	6:C:2238:ILE:HD12	2.24	0.52
6:C:2330:VAL:HG21	6:C:2338:GLU:HB3	1.91	0.52
6:C:2367:VAL:O	6:C:2369:LYS:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2962:ARG:HG3	6:C:2963:SER:OG	2.09	0.52
6:C:2965:TYR:CD2	6:C:3002:TYR:HE2	2.27	0.52
6:C:3173:MET:HG3	6:C:3174:ASP:N	2.24	0.52
6:C:3317:SER:O	6:C:3320:ILE:N	2.42	0.52
6:C:3621:LYS:HA	6:C:3629:ARG:NH1	2.25	0.52
6:C:3869:THR:HA	6:C:3872:ARG:NH2	2.23	0.52
6:C:3884:LYS:O	6:C:3888:VAL:HG23	2.09	0.52
6:C:3933:GLU:HG3	6:C:3934:THR:H	1.74	0.52
6:C:4024:GLY:O	6:C:4027:TRP:HB2	2.08	0.52
1:A:49:PHE:HD1	1:A:132:GLN:NE2	2.07	0.52
1:A:86:VAL:HG13	1:A:103:TYR:O	2.09	0.52
1:A:143:LEU:HD11	1:A:182:LYS:O	2.08	0.52
1:A:261:LEU:O	1:A:269:ILE:HG22	2.09	0.52
1:A:395:ALA:HA	1:A:415:PRO:HD3	1.91	0.52
2:B:250:ARG:NH2	2:B:260:ARG:HE	2.07	0.52
2:B:340:PHE:CZ	2:B:393:VAL:HG11	2.44	0.52
2:B:496:HIS:O	2:B:500:HIS:N	2.42	0.52
4:D:1:DG:H2'	4:D:2:DG:N9	2.25	0.52
6:C:278:HIS:HA	6:C:281:GLN:CG	2.40	0.52
6:C:412:SER:O	6:C:416:SER:HB3	2.09	0.52
6:C:928:VAL:HG23	6:C:929:ALA:H	1.73	0.52
6:C:1479:VAL:HG21	6:C:1507:CYS:HB2	1.89	0.52
6:C:2114:GLU:OE2	6:C:2119:PRO:HG2	2.08	0.52
6:C:2852:PRO:HB2	6:C:2853:PRO:HD3	1.89	0.52
6:C:3117:ILE:HG21	6:C:3125:ARG:NH2	2.23	0.52
6:C:3538:GLU:O	6:C:3541:SER:CB	2.51	0.52
6:C:3650:LYS:HG2	6:C:3659:PHE:HZ	1.74	0.52
6:C:4056:PRO:HD3	6:C:4096:SER:HA	1.91	0.52
2:B:116:ASP:OD1	2:B:120:HIS:ND1	2.41	0.52
2:B:218:GLU:OE2	2:B:221:LEU:HD12	2.09	0.52
2:B:308:GLU:O	2:B:310:ILE:HG23	2.09	0.52
2:B:365:PHE:HE2	2:B:368:ARG:HD3	1.74	0.52
6:C:70:ARG:CZ	6:C:82:ARG:HH21	2.21	0.52
6:C:560:LEU:HB2	6:C:616:LYS:HD3	1.90	0.52
6:C:913:ARG:HH21	6:C:933:LEU:CB	2.19	0.52
6:C:1034:ARG:NH1	6:C:1038:LYS:H	2.07	0.52
6:C:1213:LYS:HE2	6:C:1218:SER:HB3	1.90	0.52
6:C:1238:GLN:HG3	6:C:1301:ILE:HG13	1.90	0.52
6:C:1302:ALA:HA	6:C:1305:ASP:OD2	2.09	0.52
6:C:1493:PRO:O	6:C:1497:ARG:HG2	2.09	0.52
6:C:1984:LEU:HA	6:C:1987:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2022:PRO:HA	6:C:2041:SER:HB2	1.90	0.52
6:C:2208:ASP:OD1	6:C:2211:LEU:HB2	2.09	0.52
6:C:2552:VAL:HA	6:C:2554:PHE:CD2	2.44	0.52
6:C:3012:GLU:HB2	6:C:3050:LYS:HZ1	1.74	0.52
6:C:3167:ARG:HD2	6:C:3237:SER:OG	2.08	0.52
6:C:3351:ILE:HA	6:C:3354:ASP:OD2	2.09	0.52
6:C:3704:GLN:OE1	6:C:3719:ILE:HD12	2.09	0.52
6:C:3774:ILE:HA	6:C:3777:GLN:HG3	1.90	0.52
6:C:3921:GLY:O	6:C:3923:ARG:HG2	2.10	0.52
6:C:3972:LEU:HB2	6:C:3974:MET:HB2	1.91	0.52
6:C:4091:ALA:O	6:C:4094:PRO:HD2	2.09	0.52
1:A:37:SER:OG	1:A:163:HIS:O	2.15	0.52
1:A:344:GLY:C	1:A:345:LEU:HD12	2.30	0.52
1:A:420:LEU:H	2:B:439:LYS:HZ1	1.57	0.52
1:A:534:TYR:CE2	2:B:260:ARG:HG3	2.45	0.52
2:B:88:PHE:O	2:B:92:GLU:HG2	2.10	0.52
2:B:264:TYR:O	2:B:362:LEU:CA	2.55	0.52
4:D:-9:DC:C2	4:D:-8:DT:C5	2.98	0.52
6:C:649:PHE:CD1	6:C:656:GLN:HG3	2.42	0.52
6:C:874:THR:HA	6:C:877:ASP:OD2	2.08	0.52
6:C:1638:PRO:HA	6:C:1641:THR:OG1	2.09	0.52
6:C:1983:ASP:O	6:C:1987:ARG:HG3	2.10	0.52
6:C:2024:TYR:CE2	6:C:2069:ARG:HA	2.44	0.52
6:C:2056:SER:HB2	6:C:2061:PRO:HG2	1.91	0.52
6:C:2304:VAL:O	6:C:2307:MET:N	2.43	0.52
6:C:2444:PRO:HD2	6:C:2445:LYS:HG2	1.89	0.52
6:C:3621:LYS:HZ2	6:C:3638:LYS:HD3	1.74	0.52
6:C:3631:LYS:HA	6:C:3634:GLN:CB	2.39	0.52
6:C:3688:SER:HA	6:C:3690:PHE:CE2	2.45	0.52
6:C:3772:ASN:HA	6:C:3775:LEU:CG	2.40	0.52
6:C:3877:LYS:CE	6:C:3965:ARG:HE	2.23	0.52
6:C:3963:LEU:HG	6:C:3964:THR:H	1.75	0.52
6:C:4125:GLU:HG2	6:C:4127:TRP:NE1	2.24	0.52
5:E:45:DG:C5'	6:C:260:ILE:HA	2.40	0.52
6:C:260:ILE:O	6:C:262:LEU:N	2.43	0.52
6:C:292:SER:O	6:C:296:VAL:HG23	2.09	0.52
6:C:664:SER:O	6:C:667:TYR:N	2.42	0.52
6:C:963:LYS:HZ2	6:C:1006:THR:N	2.08	0.52
6:C:1104:LEU:O	6:C:1107:TYR:HB3	2.09	0.52
6:C:1133:HIS:HD2	6:C:1136:ARG:HH22	1.57	0.52
6:C:1232:PRO:HD2	6:C:1291:LEU:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1276:VAL:O	6:C:1357:LYS:NZ	2.42	0.52
6:C:1812:LEU:O	6:C:1815:THR:HG23	2.10	0.52
6:C:2029:SER:HB2	6:C:2030:TYR:CE1	2.44	0.52
6:C:2187:VAL:HG13	6:C:2188:GLU:H	1.73	0.52
6:C:2346:ALA:O	6:C:2349:LEU:HB3	2.10	0.52
6:C:2873:PRO:O	6:C:2876:VAL:HB	2.10	0.52
6:C:3007:GLU:OE2	6:C:3049:LEU:HB2	2.09	0.52
6:C:3087:SER:HA	6:C:3090:TYR:CD2	2.45	0.52
6:C:3118:ASP:CG	6:C:3119:VAL:H	2.11	0.52
6:C:3128:LYS:O	6:C:3132:VAL:HG22	2.09	0.52
6:C:3134:ALA:O	6:C:3138:ILE:HG12	2.10	0.52
6:C:3167:ARG:HA	6:C:3186:ARG:CZ	2.39	0.52
6:C:3190:LEU:HA	6:C:3193:ILE:HD12	1.91	0.52
6:C:3614:TYR:CE2	6:C:3652:LEU:HD22	2.44	0.52
6:C:3884:LYS:O	6:C:3887:PHE:HB3	2.09	0.52
1:A:112:GLY:CA	2:B:319:ASP:HB3	2.24	0.52
1:A:284:PRO:HB2	1:A:285:PRO:HD2	1.91	0.52
1:A:332:GLU:HG2	1:A:336:GLU:OE1	2.10	0.52
2:B:13:CYS:SG	2:B:59:PHE:HE2	2.33	0.52
2:B:146:GLN:HG3	2:B:149:ILE:HD12	1.91	0.52
2:B:535:THR:OG1	2:B:536:LEU:N	2.42	0.52
4:D:-2:DT:N3	5:E:39:DA:C2	2.67	0.52
6:C:105:VAL:O	6:C:108:LYS:HB2	2.09	0.52
6:C:242:PRO:HB2	6:C:246:ARG:HH12	1.74	0.52
6:C:561:ASN:O	6:C:564:LEU:HG	2.10	0.52
6:C:628:GLU:HG2	6:C:637:LYS:CD	2.38	0.52
6:C:756:PHE:O	6:C:759:GLY:N	2.43	0.52
6:C:941:MET:HE3	6:C:962:TYR:CZ	2.44	0.52
6:C:3117:ILE:HG12	6:C:3124:SER:HB3	1.91	0.52
6:C:3459:ASN:HA	6:C:3462:ARG:HG2	1.90	0.52
6:C:3693:GLU:O	6:C:3697:ASN:N	2.41	0.52
6:C:3718:ARG:HB2	6:C:3743:HIS:CB	2.39	0.52
6:C:3763:ARG:HH22	6:C:4009:PRO:CD	2.22	0.52
1:A:47:ALA:O	1:A:50:GLU:HB2	2.10	0.52
1:A:290:ARG:HG3	2:B:310:ILE:HA	1.91	0.52
1:A:301:ARG:HB2	2:B:292:GLU:OE1	2.10	0.52
1:A:426:GLN:HE21	1:A:428:THR:N	2.08	0.52
2:B:99:GLN:HG2	2:B:101:GLY:N	2.25	0.52
5:E:19:DC:H4'	5:E:20:DT:H4'	1.91	0.52
6:C:13:LEU:HA	6:C:16:GLN:HG2	1.91	0.52
6:C:182:GLY:HA3	6:C:229:SER:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:393:LYS:HA	6:C:396:PHE:HB3	1.92	0.52
6:C:947:GLN:HG2	6:C:949:PRO:HD3	1.92	0.52
6:C:950:GLU:O	6:C:954:GLY:N	2.32	0.52
6:C:2952:ILE:HD13	6:C:2972:TYR:CE2	2.45	0.52
6:C:3050:LYS:HE2	6:C:3051:LEU:HD21	1.91	0.52
6:C:3172:LYS:CE	6:C:3241:LYS:HB3	2.38	0.52
6:C:3662:ILE:O	6:C:3665:MET:HB3	2.10	0.52
6:C:3750:PHE:HD1	6:C:3805:TRP:H	1.57	0.52
2:B:265:LYS:NZ	5:E:28:DA:H4'	2.24	0.52
2:B:382:HIS:ND1	2:B:385:ASP:OD2	2.43	0.52
2:B:413:LYS:H	2:B:417:GLU:HG3	1.74	0.52
2:B:509:GLN:O	2:B:512:ILE:HG12	2.09	0.52
6:C:263:LYS:O	6:C:267:VAL:HG23	2.08	0.52
6:C:301:CYS:HA	6:C:304:THR:HB	1.91	0.52
6:C:353:ASP:O	6:C:1856:THR:N	2.42	0.52
6:C:444:ASP:HA	6:C:446:PHE:HE2	1.75	0.52
6:C:476:ARG:HG3	6:C:477:ASN:N	2.22	0.52
6:C:488:ILE:HD12	6:C:489:ARG:N	2.24	0.52
6:C:613:HIS:HB3	6:C:614:PRO:HD2	1.92	0.52
6:C:848:LEU:O	6:C:851:ILE:HB	2.10	0.52
6:C:1156:GLY:HA2	6:C:1159:PRO:HG2	1.91	0.52
6:C:1231:GLN:HB2	6:C:1232:PRO:HD3	1.90	0.52
6:C:1379:PRO:HB3	6:C:1384:PHE:CD1	2.45	0.52
6:C:1494:GLY:HA2	6:C:1497:ARG:HB2	1.91	0.52
6:C:1603:GLN:HA	6:C:1606:ARG:NH1	2.25	0.52
6:C:1643:MET:HA	6:C:1646:LEU:HB2	1.91	0.52
6:C:1914:THR:O	6:C:1917:LYS:HB3	2.09	0.52
6:C:3138:ILE:O	6:C:3141:PHE:N	2.43	0.52
6:C:3514:VAL:CG1	6:C:3554:PHE:HB2	2.40	0.52
6:C:3676:PRO:N	6:C:3677:PRO:HD2	2.24	0.52
6:C:3933:GLU:HG3	6:C:3934:THR:N	2.25	0.52
1:A:260:LYS:NZ	1:A:344:GLY:HA3	2.25	0.52
1:A:381:LEU:HD23	1:A:382:PHE:N	2.25	0.52
1:A:381:LEU:O	1:A:385:LEU:HG	2.10	0.52
2:B:48:ALA:HB1	2:B:50:ASN:ND2	2.25	0.52
5:E:48:DT:H2'	5:E:49:DT:C6	2.44	0.52
6:C:631:ARG:HH22	6:C:668:LYS:HD3	1.75	0.52
6:C:786:GLN:O	6:C:789:TYR:CE2	2.61	0.52
6:C:913:ARG:NH2	6:C:933:LEU:HB3	2.22	0.52
6:C:1101:PHE:O	6:C:1105:VAL:HG23	2.09	0.52
6:C:1111:LEU:O	6:C:1115:HIS:CE1	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1582:LEU:O	6:C:1586:SER:OG	2.22	0.52
6:C:1701:SER:O	6:C:1705:GLY:HA3	2.09	0.52
6:C:1988:TYR:O	6:C:1991:PRO:HD2	2.10	0.52
6:C:2139:PRO:HA	6:C:2142:ILE:HD12	1.91	0.52
6:C:4002:MET:C	6:C:4005:PHE:HB3	2.30	0.52
1:A:275:ASN:HA	1:A:366:LEU:HB3	1.92	0.52
1:A:402:PRO:CD	1:A:406:ILE:HG21	2.30	0.52
1:A:470:ARG:HH22	1:A:472:THR:HA	1.75	0.52
4:D:-9:DC:H5'	6:C:2313:LYS:HE3	1.92	0.52
4:D:4:DA:C2	4:D:5:DT:C2	2.97	0.52
6:C:70:ARG:HE	6:C:82:ARG:NE	2.07	0.52
6:C:321:LYS:HG2	6:C:325:ASN:ND2	2.25	0.52
6:C:341:PHE:O	6:C:344:GLN:HB2	2.10	0.52
6:C:446:PHE:HB2	6:C:448:GLN:O	2.10	0.52
6:C:635:PRO:HA	6:C:638:GLN:CD	2.30	0.52
6:C:649:PHE:CD2	6:C:650:SER:HA	2.44	0.52
6:C:663:ILE:O	6:C:667:TYR:N	2.42	0.52
6:C:738:HIS:CD2	6:C:745:VAL:HG22	2.45	0.52
6:C:978:GLN:O	6:C:982:GLN:HB3	2.10	0.52
6:C:985:GLU:O	6:C:988:VAL:HG22	2.10	0.52
6:C:994:TRP:CE3	6:C:2783:ILE:HG13	2.45	0.52
6:C:1002:GLU:HA	6:C:1005:ASP:OD2	2.10	0.52
6:C:1233:SER:N	6:C:1291:LEU:HD22	2.24	0.52
6:C:1736:PHE:HB3	6:C:1737:ASN:CG	2.30	0.52
6:C:1760:GLU:HA	6:C:1894:SER:HA	1.92	0.52
6:C:1998:MET:HG3	6:C:1999:GLU:H	1.75	0.52
6:C:2007:ILE:HG13	6:C:2009:LYS:H	1.74	0.52
6:C:2193:ILE:HA	6:C:2196:TRP:CZ2	2.44	0.52
6:C:2518:GLN:O	6:C:2522:ARG:CB	2.58	0.52
6:C:2840:PHE:HA	6:C:2843:PHE:HB3	1.92	0.52
6:C:2856:SER:HA	6:C:2859:GLN:CD	2.31	0.52
6:C:2898:LEU:HD11	6:C:2914:ALA:HB1	1.92	0.52
6:C:3421:ASP:O	6:C:3424:LEU:HB3	2.10	0.52
6:C:3529:ILE:HG13	6:C:3532:PRO:CG	2.39	0.52
1:A:61:ASP:O	1:A:64:ILE:HB	2.09	0.51
1:A:164:LYS:HB3	1:A:198:ILE:HA	1.92	0.51
1:A:332:GLU:O	1:A:335:GLU:N	2.43	0.51
2:B:350:GLN:O	2:B:352:GLN:NE2	2.43	0.51
2:B:490:LEU:HG	2:B:494:LEU:HG	1.92	0.51
6:C:60:SER:O	6:C:63:PHE:HB2	2.10	0.51
6:C:411:PRO:O	6:C:414:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1303:MET:O	6:C:1307:ILE:HG12	2.10	0.51
6:C:1340:ARG:C	6:C:1343:GLU:H	2.13	0.51
6:C:2098:THR:OG1	6:C:2099:ALA:N	2.43	0.51
6:C:2890:ILE:HA	6:C:2893:LEU:HD13	1.91	0.51
6:C:3173:MET:CG	6:C:3174:ASP:H	2.23	0.51
6:C:3373:VAL:HG23	6:C:3375:ALA:H	1.75	0.51
6:C:3447:VAL:HG12	6:C:3465:PHE:CE1	2.45	0.51
6:C:3592:VAL:HG13	6:C:3606:ILE:HD12	1.92	0.51
6:C:3626:GLY:HA2	6:C:3629:ARG:HB3	1.92	0.51
6:C:3685:PRO:HA	6:C:3688:SER:OG	2.09	0.51
6:C:3733:ARG:HH11	6:C:3755:GLY:H	1.57	0.51
6:C:3733:ARG:HG2	6:C:3735:PRO:HB3	1.92	0.51
2:B:41:PHE:O	2:B:45:GLN:HG2	2.10	0.51
2:B:81:ARG:NH2	2:B:93:ASP:OD2	2.38	0.51
2:B:112:ILE:O	2:B:115:MET:HB2	2.10	0.51
2:B:311:ILE:HB	2:B:323:PHE:O	2.11	0.51
4:D:-7:DA:H3'	4:D:-6:DT:H71	1.92	0.51
6:C:20:SER:O	6:C:23:ASP:HB2	2.09	0.51
6:C:75:SER:O	6:C:79:ARG:N	2.39	0.51
6:C:382:ASP:HA	6:C:385:TYR:CE2	2.45	0.51
6:C:557:SER:O	6:C:560:LEU:N	2.43	0.51
6:C:1655:ILE:HA	6:C:1677:SER:HB3	1.91	0.51
6:C:1933:LEU:HA	6:C:1937:ARG:HD3	1.92	0.51
6:C:1977:ILE:HG22	6:C:1978:PHE:H	1.75	0.51
6:C:1986:ARG:O	6:C:1990:PHE:CB	2.41	0.51
6:C:2008:ARG:O	6:C:2012:ARG:NH2	2.42	0.51
6:C:2182:ILE:O	6:C:2186:VAL:HG12	2.10	0.51
6:C:2386:LEU:HD11	6:C:2401:VAL:HG22	1.91	0.51
6:C:2519:LEU:HG	6:C:2523:ASN:ND2	2.25	0.51
6:C:2826:LEU:HA	6:C:2829:LYS:HG2	1.92	0.51
6:C:2847:THR:HB	6:C:2850:PHE:HD2	1.75	0.51
6:C:3062:LEU:O	6:C:3065:ILE:HG22	2.10	0.51
6:C:3256:MET:HA	6:C:3259:LEU:HB2	1.92	0.51
6:C:3583:LEU:O	6:C:3587:ASP:HB2	2.10	0.51
6:C:3733:ARG:NH2	6:C:3756:GLU:HB3	2.23	0.51
6:C:4048:LYS:HA	6:C:4051:LEU:HB3	1.93	0.51
6:C:4077:TYR:HE1	6:C:4115:ASN:ND2	2.07	0.51
1:A:40:PHE:HD2	1:A:85:VAL:HG12	1.75	0.51
1:A:43:ASP:OD1	1:A:88:TYR:OH	2.27	0.51
1:A:71:TYR:HA	1:A:83:LEU:CD1	2.40	0.51
2:B:76:ASN:HB3	2:B:105:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:152:HIS:O	2:B:155:LYS:HB2	2.10	0.51
2:B:320:ILE:HD12	2:B:320:ILE:H	1.75	0.51
2:B:332:LYS:HG2	2:B:334:LYS:HG3	1.91	0.51
6:C:60:SER:HA	6:C:63:PHE:CD2	2.45	0.51
6:C:237:SER:OG	6:C:279:ALA:HB1	2.10	0.51
6:C:261:ASP:O	6:C:264:ARG:HB2	2.10	0.51
6:C:284:THR:HG21	6:C:326:MET:SD	2.51	0.51
6:C:366:TYR:CE1	6:C:412:SER:HA	2.45	0.51
6:C:474:VAL:HG23	6:C:475:LEU:H	1.75	0.51
6:C:938:VAL:HG22	6:C:962:TYR:OH	2.10	0.51
6:C:1140:LYS:HB2	6:C:1142:HIS:NE2	2.25	0.51
6:C:1389:VAL:O	6:C:1390:GLN:HB3	2.10	0.51
6:C:2322:VAL:O	6:C:2326:ILE:HB	2.11	0.51
6:C:2546:TYR:CB	6:C:2549:LYS:HZ1	2.22	0.51
6:C:3065:ILE:O	6:C:3069:MET:HG3	2.10	0.51
6:C:3514:VAL:HG11	6:C:3554:PHE:HB2	1.92	0.51
6:C:3731:SER:HB2	6:C:3734:ARG:N	2.20	0.51
6:C:4014:LYS:O	6:C:4017:GLU:HB2	2.10	0.51
6:C:4074:PHE:O	6:C:4078:VAL:HG22	2.11	0.51
6:C:4104:VAL:O	6:C:4108:MET:HE2	2.10	0.51
1:A:151:ALA:C	6:C:2384:PHE:HZ	2.14	0.51
1:A:412:ALA:O	1:A:435:VAL:N	2.36	0.51
2:B:441:SER:HB3	2:B:444:TYR:O	2.10	0.51
5:E:45:DG:P	6:C:260:ILE:HG23	2.51	0.51
6:C:86:LEU:HA	6:C:89:LEU:HD12	1.91	0.51
6:C:214:GLU:HG3	6:C:256:ILE:HG23	1.92	0.51
6:C:313:LEU:O	6:C:316:LEU:HB3	2.10	0.51
6:C:330:ASN:O	6:C:334:HIS:HB2	2.10	0.51
6:C:1141:LYS:H	6:C:1146:ASN:ND2	2.09	0.51
6:C:1165:LEU:HB2	6:C:1260:LEU:HD11	1.92	0.51
6:C:1259:LEU:HD22	6:C:1340:ARG:HG3	1.93	0.51
6:C:1408:MET:H	6:C:1412:LYS:NZ	2.08	0.51
6:C:1508:LYS:HD3	6:C:1573:LYS:HG2	1.92	0.51
6:C:1524:LEU:HB2	6:C:1563:PHE:HD2	1.74	0.51
6:C:1593:VAL:O	6:C:1596:VAL:HB	2.11	0.51
6:C:2296:SER:HB3	6:C:2299:TYR:CZ	2.44	0.51
6:C:2510:LEU:HD13	6:C:2522:ARG:CZ	2.40	0.51
6:C:2524:PHE:HA	6:C:2527:HIS:CE1	2.45	0.51
6:C:2964:ASP:O	6:C:2968:ALA:HB2	2.11	0.51
6:C:3111:MET:O	6:C:3115:SER:OG	2.26	0.51
6:C:3167:ARG:HH21	6:C:3186:ARG:HD2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3283:LEU:HD11	6:C:3297:VAL:HA	1.92	0.51
6:C:3812:LEU:HD11	6:C:3925:LEU:O	2.10	0.51
1:A:90:THR:CG2	1:A:103:TYR:HE2	2.23	0.51
1:A:296:VAL:HG12	2:B:296:CYS:H	1.75	0.51
1:A:331:LYS:O	1:A:334:THR:OG1	2.27	0.51
2:B:135:PHE:HB3	2:B:227:PHE:CZ	2.46	0.51
6:C:652:GLU:HG2	6:C:717:LYS:HZ3	1.74	0.51
6:C:715:ALA:HB1	6:C:719:LYS:HE2	1.91	0.51
6:C:1434:VAL:HG11	6:C:1448:LEU:HD11	1.92	0.51
6:C:1882:SER:O	6:C:1885:PRO:HD2	2.10	0.51
6:C:2077:HIS:HE1	6:C:2138:VAL:HG11	1.75	0.51
6:C:2102:LYS:O	6:C:2106:ARG:HG3	2.11	0.51
6:C:2151:ILE:HG22	6:C:2152:ASN:O	2.10	0.51
6:C:2220:MET:HB3	6:C:2224:PHE:CZ	2.45	0.51
6:C:2281:MET:HE3	6:C:2286:PRO:HG2	1.92	0.51
6:C:2313:LYS:HG3	6:C:2316:TYR:HE2	1.76	0.51
6:C:2450:GLU:HG2	6:C:2451:LEU:N	2.25	0.51
6:C:2474:TYR:HD1	6:C:2477:LEU:HD12	1.75	0.51
6:C:2554:PHE:CD2	6:C:2554:PHE:N	2.79	0.51
6:C:2858:ILE:O	6:C:2861:ILE:HG13	2.11	0.51
6:C:2928:LYS:HB3	6:C:3784:ARG:NH2	2.26	0.51
6:C:2934:GLY:HA2	6:C:2937:ASP:CB	2.41	0.51
6:C:2977:ASN:HA	6:C:2980:ASP:OD2	2.11	0.51
6:C:3029:LYS:NZ	6:C:3067:LYS:HB2	2.25	0.51
6:C:3794:VAL:N	6:C:3802:LEU:O	2.31	0.51
6:C:3864:ARG:HG2	6:C:4115:ASN:HA	1.93	0.51
1:A:90:THR:H	1:A:101:ASN:HA	1.76	0.51
2:B:275:THR:HB	4:D:6:DT:OP1	2.11	0.51
2:B:486:ARG:NH1	4:D:4:DA:O5'	2.35	0.51
4:D:5:DT:H2'	4:D:6:DT:H71	1.92	0.51
6:C:118:ASP:OD1	6:C:127:ALA:HB1	2.11	0.51
6:C:135:LEU:O	6:C:138:PHE:HB3	2.11	0.51
6:C:209:THR:O	6:C:213:ARG:HA	2.10	0.51
6:C:1058:SER:HA	6:C:1061:LYS:CB	2.40	0.51
6:C:1165:LEU:HD12	6:C:1260:LEU:HD21	1.92	0.51
6:C:1399:CYS:O	6:C:1403:MET:HG2	2.11	0.51
6:C:1603:GLN:HA	6:C:1606:ARG:HH12	1.76	0.51
6:C:1746:PHE:O	6:C:1750:LEU:HB2	2.10	0.51
6:C:2238:ILE:HA	6:C:2241:LEU:CD1	2.40	0.51
6:C:2371:PHE:CE2	6:C:2378:PHE:CE2	2.92	0.51
6:C:2452:ARG:NH2	6:C:2497:GLU:HB2	2.06	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2925:GLU:HB3	6:C:2930:TYR:CD2	2.45	0.51
6:C:3185:ASN:HB3	6:C:3189:PHE:CE2	2.45	0.51
6:C:3571:PHE:HZ	6:C:3690:PHE:N	2.05	0.51
6:C:3927:ASN:HB3	6:C:3941:ASP:OD2	2.11	0.51
6:C:4031:ILE:HG13	6:C:4032:ASN:H	1.74	0.51
1:A:76:ILE:HD13	1:A:247:ARG:HA	1.92	0.51
1:A:90:THR:HG21	1:A:103:TYR:HE2	1.76	0.51
1:A:92:LYS:HE2	1:A:135:MET:O	2.11	0.51
1:A:299:LYS:N	2:B:294:VAL:O	2.36	0.51
1:A:339:ARG:HA	1:A:405:ASN:HD21	1.76	0.51
2:B:114:SER:HB3	2:B:132:ILE:HD13	1.93	0.51
2:B:162:GLN:HG2	2:B:223:GLU:OE2	2.11	0.51
6:C:204:LEU:HD11	6:C:219:VAL:HG12	1.91	0.51
6:C:1036:PHE:CE2	6:C:1085:ILE:HG21	2.46	0.51
6:C:1445:ARG:O	6:C:1448:LEU:HB2	2.11	0.51
6:C:1928:ALA:CA	6:C:1938:ARG:HH12	2.17	0.51
6:C:2103:HIS:HA	6:C:2106:ARG:HD3	1.93	0.51
6:C:2263:LYS:HZ3	6:C:2269:ASP:C	2.13	0.51
6:C:2450:GLU:OE1	6:C:2450:GLU:N	2.41	0.51
6:C:2983:ASP:OD1	6:C:2984:GLY:N	2.38	0.51
6:C:3482:LEU:O	6:C:3485:LYS:HB2	2.09	0.51
6:C:3493:TRP:O	6:C:3496:ILE:HG12	2.11	0.51
6:C:3962:ARG:CD	6:C:4124:TRP:HB3	2.40	0.51
6:C:3974:MET:C	6:C:3976:GLU:H	2.14	0.51
1:A:207:LYS:HD2	1:A:208:PRO:HD2	1.92	0.51
1:A:347:LEU:HD13	1:A:396:ALA:HB1	1.92	0.51
1:A:471:PHE:CZ	2:B:392:ILE:HG13	2.46	0.51
1:A:526:LYS:HA	1:A:530:TYR:CZ	2.45	0.51
2:B:151:ILE:HD13	2:B:214:SER:CB	2.41	0.51
2:B:302:GLU:OE2	6:C:119:ARG:NE	2.31	0.51
2:B:448:GLU:CD	2:B:451:LEU:HB2	2.30	0.51
4:D:-4:DA:H5 ⁷	4:D:-3:DT:H71	1.91	0.51
6:C:138:PHE:CZ	6:C:177:LEU:HD22	2.46	0.51
6:C:297:LEU:HA	6:C:300:TRP:HB3	1.92	0.51
6:C:478:CYS:O	6:C:482:VAL:HG23	2.11	0.51
6:C:637:LYS:HA	6:C:641:PHE:CB	2.41	0.51
6:C:1132:ASP:HB3	6:C:1171:TRP:NE1	2.26	0.51
6:C:1158:PRO:C	6:C:1231:GLN:HE22	2.14	0.51
6:C:1329:ARG:O	6:C:1333:SER:OG	2.29	0.51
6:C:1442:GLN:HA	6:C:1445:ARG:NH2	2.25	0.51
6:C:1453:SER:CA	6:C:1456:LYS:HE2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1687:HIS:O	6:C:1691:GLN:CB	2.59	0.51
6:C:1897:ASN:HA	6:C:1900:PHE:CD2	2.45	0.51
6:C:2386:LEU:HA	6:C:2400:VAL:HG11	1.92	0.51
6:C:2818:LYS:O	6:C:2821:ASP:HB2	2.10	0.51
6:C:3763:ARG:HA	6:C:3766:GLN:OE1	2.10	0.51
6:C:3925:LEU:HD23	6:C:4125:GLU:HB2	1.93	0.51
1:A:340:PHE:CE1	2:B:489:ARG:HD3	2.46	0.51
6:C:77:GLU:HB2	6:C:78:PHE:CD1	2.46	0.51
6:C:345:PHE:HA	6:C:348:ILE:HD13	1.93	0.51
6:C:528:VAL:HG13	6:C:531:PHE:CE2	2.45	0.51
6:C:625:ASN:CG	6:C:626:LEU:H	2.12	0.51
6:C:1174:ALA:H	6:C:1267:TYR:HH	1.52	0.51
6:C:1949:ILE:HA	6:C:1952:ILE:HG22	1.93	0.51
6:C:2068:ARG:HD3	6:C:2070:GLU:CD	2.32	0.51
6:C:2154:GLU:O	6:C:2157:PHE:HB2	2.10	0.51
6:C:2335:ASN:HB3	6:C:2339:GLU:OE2	2.10	0.51
6:C:3008:TRP:C	6:C:3050:LYS:HD3	2.31	0.51
6:C:3228:SER:HA	6:C:3231:ILE:HG22	1.92	0.51
6:C:3277:VAL:HB	6:C:3324:ARG:NH2	2.26	0.51
6:C:3923:ARG:HH12	6:C:3939:GLY:HA2	1.76	0.51
1:A:76:ILE:HG21	1:A:247:ARG:O	2.11	0.51
1:A:161:MET:HE1	1:A:164:LYS:HG3	1.92	0.51
1:A:260:LYS:NZ	1:A:343:PRO:O	2.44	0.51
1:A:288:LEU:HB2	2:B:311:ILE:HD11	1.93	0.51
1:A:388:LYS:HD3	2:B:455:ASP:OD2	2.11	0.51
2:B:162:GLN:HE22	2:B:236:VAL:HG22	1.76	0.51
2:B:459:ASP:HA	2:B:462:SER:OG	2.11	0.51
2:B:486:ARG:HH12	4:D:4:DA:P	2.34	0.51
5:E:34:DC:C4	5:E:35:DC:C4	2.99	0.51
6:C:738:HIS:O	6:C:741:ILE:N	2.39	0.51
6:C:970:LEU:O	6:C:981:ARG:HD2	2.11	0.51
6:C:1062:ARG:O	6:C:1065:SER:N	2.44	0.51
6:C:1259:LEU:HD22	6:C:1340:ARG:NH1	2.26	0.51
6:C:1648:LEU:HG	6:C:1652:ILE:CD1	2.40	0.51
6:C:1803:GLU:HA	6:C:1806:ARG:HG3	1.93	0.51
6:C:1897:ASN:HA	6:C:1900:PHE:CE2	2.46	0.51
6:C:2070:GLU:OE2	6:C:2075:THR:HG21	2.11	0.51
6:C:2878:ALA:HB3	6:C:2882:ALA:CB	2.40	0.51
6:C:2996:LEU:O	6:C:2999:LEU:N	2.43	0.51
6:C:3336:ILE:HG23	6:C:3339:ASN:N	2.24	0.51
1:A:65:GLN:HE21	1:A:123:LYS:HG2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:GLU:HB3	1:A:333:GLU:H	1.76	0.50
2:B:497:ARG:NH2	2:B:503:GLU:O	2.43	0.50
4:D:10:DG:H1	5:E:25:DG:H1	1.56	0.50
6:C:138:PHE:O	6:C:141:SER:HB2	2.11	0.50
6:C:299:LYS:O	6:C:303:HIS:HB2	2.12	0.50
6:C:451:PRO:HA	6:C:454:GLN:CD	2.31	0.50
6:C:670:LEU:O	6:C:674:VAL:HG23	2.11	0.50
6:C:673:THR:O	6:C:677:ALA:HB3	2.11	0.50
6:C:987:LEU:HG	6:C:990:GLN:NE2	2.27	0.50
6:C:1112:ALA:HA	6:C:1115:HIS:CE1	2.46	0.50
6:C:1163:LEU:HA	6:C:1256:TRP:CB	2.41	0.50
6:C:1285:GLU:HG2	6:C:1361:LYS:HG3	1.93	0.50
6:C:1374:GLN:NE2	6:C:1377:CYS:SG	2.84	0.50
6:C:1738:ASN:O	6:C:1742:CYS:HB2	2.11	0.50
6:C:2047:THR:HA	6:C:2050:GLN:OE1	2.10	0.50
6:C:2093:CYS:O	6:C:2096:PRO:HG2	2.10	0.50
6:C:2151:ILE:HG21	6:C:2156:VAL:HG13	1.93	0.50
6:C:3038:GLU:O	6:C:3041:LEU:CB	2.52	0.50
6:C:3087:SER:HA	6:C:3090:TYR:CE2	2.45	0.50
6:C:3117:ILE:HG12	6:C:3128:LYS:HZ1	1.76	0.50
6:C:3306:LEU:O	6:C:3310:ASN:ND2	2.44	0.50
6:C:3578:LEU:HD23	6:C:3630:ARG:NH1	2.27	0.50
6:C:3767:LEU:O	6:C:3770:VAL:N	2.44	0.50
6:C:3879:PRO:HB2	6:C:3966:GLN:OE1	2.11	0.50
6:C:3901:ARG:CZ	6:C:3971:MET:O	2.59	0.50
6:C:3952:PHE:HB2	6:C:3955:VAL:HG12	1.93	0.50
6:C:4125:GLU:HG2	6:C:4127:TRP:CE2	2.46	0.50
1:A:305:THR:N	2:B:288:ASP:O	2.32	0.50
1:A:486:HIS:NE2	2:B:328:GLU:OE2	2.44	0.50
2:B:280:ASP:OD1	2:B:281:ALA:N	2.44	0.50
2:B:496:HIS:HE1	2:B:503:GLU:CG	2.24	0.50
4:D:-2:DT:C4	5:E:38:DA:N6	2.79	0.50
6:C:681:LYS:HE3	6:C:746:ARG:HE	1.76	0.50
6:C:738:HIS:CE1	6:C:741:ILE:HD11	2.47	0.50
6:C:772:ALA:HA	6:C:775:GLU:CD	2.31	0.50
6:C:1334:LYS:O	6:C:1337:VAL:HB	2.11	0.50
6:C:1415:LEU:O	6:C:1418:HIS:HB3	2.12	0.50
6:C:1954:CYS:SG	6:C:2003:LYS:NZ	2.65	0.50
6:C:2240:THR:HA	6:C:2243:GLU:OE1	2.11	0.50
6:C:2384:PHE:C	6:C:2387:PRO:HD2	2.31	0.50
6:C:3133:GLN:O	6:C:3137:GLU:HG3	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3273:LEU:O	6:C:3277:VAL:HG13	2.10	0.50
6:C:3619:ASP:O	6:C:3625:LEU:HD22	2.11	0.50
6:C:3774:ILE:HA	6:C:3777:GLN:CG	2.40	0.50
6:C:3976:GLU:HA	6:C:3979:LEU:CB	2.40	0.50
1:A:382:PHE:HZ	1:A:431:GLY:HA2	1.77	0.50
1:A:403:ARG:HD2	5:E:37:DT:C5'	2.41	0.50
1:A:429:PRO:HD2	2:B:354:ARG:NH1	2.23	0.50
1:A:479:GLU:HG3	1:A:481:PRO:HG3	1.92	0.50
2:B:200:GLN:HA	2:B:203:GLU:OE1	2.10	0.50
2:B:382:HIS:HA	2:B:385:ASP:CG	2.31	0.50
6:C:70:ARG:NE	6:C:82:ARG:HH21	2.09	0.50
6:C:80:GLU:O	6:C:84:GLU:HG2	2.12	0.50
6:C:112:THR:O	6:C:115:TYR:HB2	2.12	0.50
6:C:437:HIS:O	6:C:440:VAL:HG22	2.11	0.50
6:C:630:CYS:O	6:C:634:LEU:HB3	2.12	0.50
6:C:704:PHE:O	6:C:707:PHE:HB3	2.12	0.50
6:C:850:GLU:CB	6:C:854:ARG:HH12	2.22	0.50
6:C:894:PHE:CD1	6:C:906:PHE:HE2	2.29	0.50
6:C:910:PHE:N	6:C:912:PRO:HD2	2.26	0.50
6:C:1235:ILE:H	6:C:1235:ILE:HD12	1.76	0.50
6:C:1443:VAL:HG12	6:C:1447:ARG:NH2	2.25	0.50
6:C:2009:LYS:HG3	6:C:2013:GLU:HB2	1.93	0.50
6:C:2295:GLN:HG3	6:C:2299:TYR:OH	2.10	0.50
6:C:2434:VAL:O	6:C:2437:ASP:CB	2.51	0.50
6:C:2890:ILE:HG12	6:C:2918:PRO:HG3	1.94	0.50
6:C:3128:LYS:O	6:C:3131:SER:HB2	2.11	0.50
6:C:3813:LYS:NZ	6:C:3817:LEU:HD21	2.26	0.50
6:C:3929:MET:O	6:C:3937:VAL:HA	2.12	0.50
6:C:4056:PRO:HA	6:C:4094:PRO:HB3	1.94	0.50
6:C:4107:LEU:HA	6:C:4110:GLN:OE1	2.12	0.50
1:A:90:THR:HA	1:A:138:GLY:HA2	1.93	0.50
1:A:145:GLU:OE1	1:A:145:GLU:N	2.28	0.50
1:A:317:LYS:CG	1:A:330:GLU:HA	2.41	0.50
2:B:253:ILE:HB	2:B:257:LEU:HB3	1.93	0.50
2:B:315:ARG:NH2	2:B:318:SER:HA	2.26	0.50
2:B:448:GLU:OE2	2:B:452:ASN:N	2.45	0.50
2:B:523:THR:HG22	2:B:527:GLN:HE22	1.75	0.50
2:B:528:ILE:O	2:B:531:SER:HB2	2.12	0.50
5:E:25:DG:C2'	5:E:26:DC:H5'	2.40	0.50
5:E:34:DC:H2''	5:E:35:DC:H2'	1.94	0.50
5:E:45:DG:H2'	5:E:46:DT:N3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:90:CYS:HB3	6:C:137:THR:OG1	2.11	0.50
6:C:355:ASN:C	6:C:1856:THR:HG23	2.31	0.50
6:C:444:ASP:CB	6:C:530:LEU:HG	2.41	0.50
6:C:626:LEU:HA	6:C:666:PHE:CZ	2.46	0.50
6:C:1074:LYS:HE3	6:C:1075:ARG:HH12	1.76	0.50
6:C:1739:TYR:O	6:C:1743:MET:HB3	2.12	0.50
6:C:2313:LYS:HG3	6:C:2316:TYR:CE2	2.47	0.50
6:C:2833:THR:O	6:C:2834:GLN:C	2.48	0.50
6:C:2863:CYS:HB2	6:C:2868:LEU:HD21	1.93	0.50
6:C:3119:VAL:O	6:C:3121:LEU:HG	2.11	0.50
6:C:3159:ARG:NE	6:C:3162:ASN:OD1	2.43	0.50
6:C:4044:ILE:O	6:C:4048:LYS:HD3	2.11	0.50
1:A:143:LEU:O	1:A:146:VAL:N	2.45	0.50
1:A:455:THR:OG1	1:A:458:GLN:OE1	2.20	0.50
2:B:251:LEU:HA	2:B:340:PHE:O	2.11	0.50
2:B:340:PHE:CE2	2:B:393:VAL:HG11	2.47	0.50
2:B:400:ARG:HD2	4:D:9:DG:C2'	2.40	0.50
2:B:405:VAL:HG23	2:B:426:PHE:HZ	1.74	0.50
4:D:-10:DA:C6	5:E:45:DG:C6	2.99	0.50
6:C:304:THR:HG22	6:C:306:VAL:HG13	1.94	0.50
6:C:337:LYS:O	6:C:340:TYR:HB2	2.11	0.50
6:C:407:VAL:C	6:C:409:GLN:N	2.65	0.50
6:C:411:PRO:HA	6:C:414:LEU:CB	2.41	0.50
6:C:652:GLU:HB3	6:C:722:LYS:HE3	1.94	0.50
6:C:1389:VAL:HG23	6:C:1391:VAL:HG23	1.93	0.50
6:C:1973:LYS:NZ	6:C:1975:LEU:HB2	2.26	0.50
6:C:2049:VAL:HA	6:C:2052:TYR:HD2	1.76	0.50
6:C:2341:LEU:O	6:C:2344:LEU:HB2	2.11	0.50
6:C:2420:PHE:CZ	6:C:2424:MET:HB2	2.46	0.50
6:C:2552:VAL:C	6:C:2554:PHE:H	2.15	0.50
6:C:3559:LYS:NZ	6:C:3563:ASP:OD2	2.36	0.50
6:C:3671:ASN:O	6:C:3674:SER:OG	2.25	0.50
6:C:4065:LEU:HA	6:C:4068:HIS:HB3	1.94	0.50
1:A:39:ILE:HD13	1:A:166:ILE:HG12	1.92	0.50
1:A:77:SER:HA	1:A:249:LYS:O	2.12	0.50
1:A:470:ARG:HE	2:B:347:LYS:H	1.59	0.50
2:B:28:GLU:HG3	2:B:33:GLN:HG3	1.94	0.50
2:B:73:GLN:C	2:B:75:GLN:H	2.15	0.50
2:B:162:GLN:NE2	2:B:239:LYS:HE3	2.26	0.50
2:B:374:ALA:O	2:B:377:LEU:HB3	2.11	0.50
6:C:177:LEU:HA	6:C:180:LEU:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:207:GLN:HG3	6:C:215:PRO:HB3	1.93	0.50
6:C:260:ILE:HD13	6:C:260:ILE:N	2.26	0.50
6:C:291:VAL:O	6:C:294:PHE:HB3	2.10	0.50
6:C:326:MET:O	6:C:330:ASN:ND2	2.37	0.50
6:C:408:TYR:O	6:C:412:SER:OG	2.24	0.50
6:C:894:PHE:CE1	6:C:903:PRO:HG2	2.45	0.50
6:C:1007:VAL:O	6:C:1010:LEU:HG	2.12	0.50
6:C:1250:LEU:HD23	6:C:1254:LEU:HD13	1.93	0.50
6:C:1292:LYS:O	6:C:1295:ALA:HB3	2.12	0.50
6:C:1399:CYS:O	6:C:1403:MET:N	2.24	0.50
6:C:1403:MET:O	6:C:1406:LEU:HB2	2.10	0.50
6:C:1878:ASP:O	6:C:1882:SER:N	2.43	0.50
6:C:1918:LEU:HA	6:C:1921:ASP:HB2	1.94	0.50
6:C:2418:LYS:N	6:C:2418:LYS:HD2	2.26	0.50
6:C:3076:ALA:O	6:C:3080:LEU:HG	2.12	0.50
6:C:3353:GLU:HB2	6:C:3373:VAL:O	2.12	0.50
6:C:3817:LEU:HD22	6:C:3829:LEU:HD22	1.94	0.50
6:C:3864:ARG:NH1	6:C:4119:ARG:HH11	2.09	0.50
6:C:4013:TRP:CH2	6:C:4041:ARG:HB2	2.46	0.50
1:A:95:ASN:HD21	1:A:99:PHE:H	1.57	0.50
2:B:463:LEU:HB2	2:B:475:ASP:OD1	2.12	0.50
6:C:288:ASP:OD1	6:C:289:ASN:N	2.44	0.50
6:C:574:LYS:HA	6:C:577:GLU:HG2	1.93	0.50
6:C:933:LEU:HD13	6:C:2794:LEU:CB	2.40	0.50
6:C:983:LEU:HD23	6:C:984:TYR:CE2	2.47	0.50
6:C:1481:THR:C	6:C:1484:LEU:HB3	2.32	0.50
6:C:2510:LEU:HB2	6:C:2522:ARG:CZ	2.41	0.50
6:C:2534:ASN:ND2	6:C:2537:ASP:H	2.10	0.50
6:C:2813:PHE:HB3	6:C:2817:LEU:CD1	2.40	0.50
6:C:2841:ASN:O	6:C:2844:LEU:HB2	2.11	0.50
6:C:3444:ALA:HB1	6:C:3478:GLU:OE2	2.12	0.50
6:C:3510:GLN:HB2	6:C:3513:ALA:HB2	1.94	0.50
6:C:3629:ARG:HG3	6:C:3633:ILE:HB	1.93	0.50
6:C:4093:GLU:HB2	6:C:4094:PRO:HD3	1.93	0.50
1:A:292:THR:O	1:A:294:GLU:HG2	2.12	0.50
1:A:428:THR:HG22	2:B:354:ARG:NH2	2.27	0.50
1:A:451:LYS:NZ	2:B:415:ASN:O	2.34	0.50
1:A:458:GLN:C	1:A:462:MET:HG2	2.32	0.50
1:A:458:GLN:O	1:A:462:MET:HG2	2.12	0.50
2:B:18:PHE:CE2	2:B:103:GLN:HA	2.47	0.50
4:D:2:DG:C6	5:E:33:DA:N6	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:447:PRO:HG3	6:C:525:LYS:HD3	1.94	0.50
6:C:566:ASP:OD2	6:C:1800:SER:HA	2.12	0.50
6:C:735:SER:O	6:C:738:HIS:N	2.35	0.50
6:C:957:PRO:C	6:C:960:GLN:HB3	2.32	0.50
6:C:1013:ILE:HG22	6:C:1028:PHE:HB2	1.94	0.50
6:C:1178:ARG:HG3	6:C:1214:GLU:O	2.12	0.50
6:C:2019:SER:O	6:C:2069:ARG:NH2	2.43	0.50
6:C:2105:HIS:ND1	6:C:2108:LEU:O	2.44	0.50
6:C:2157:PHE:O	6:C:2160:TYR:HB2	2.11	0.50
6:C:2239:LYS:O	6:C:2243:GLU:HG3	2.11	0.50
6:C:2797:VAL:HG23	6:C:2798:ALA:N	2.27	0.50
6:C:2814:SER:O	6:C:2819:GLU:HG2	2.12	0.50
6:C:2905:LEU:HB2	6:C:2906:PRO:HD2	1.93	0.50
6:C:2911:ARG:HD3	6:C:2913:LYS:HG3	1.94	0.50
6:C:3049:LEU:HD21	6:C:3088:LEU:HD23	1.93	0.50
6:C:3270:ASP:OD1	6:C:3273:LEU:HD12	2.12	0.50
6:C:3326:GLN:HG2	6:C:3389:VAL:HA	1.93	0.50
6:C:3857:LEU:HB3	6:C:3859:TYR:CE2	2.47	0.50
6:C:4039:TYR:CG	6:C:4042:GLN:HG2	2.47	0.50
6:C:4102:THR:HA	6:C:4105:LYS:HD2	1.93	0.50
6:C:4113:ASP:O	6:C:4117:LEU:HG	2.12	0.50
1:A:158:GLN:HG2	1:A:159:PHE:CD1	2.47	0.50
2:B:106:ASP:OD1	2:B:107:PHE:N	2.42	0.50
4:D:10:DG:N1	5:E:26:DC:C2	2.79	0.50
4:D:10:DG:H2''	4:D:11:DC:O5'	2.12	0.50
6:C:90:CYS:CB	6:C:136:GLN:HG3	2.42	0.50
6:C:139:ARG:HG3	6:C:140:SER:N	2.27	0.50
6:C:373:CYS:H	6:C:375:VAL:CG2	2.25	0.50
6:C:384:MET:O	6:C:385:TYR:CG	2.65	0.50
6:C:643:GLU:O	6:C:646:VAL:HG22	2.12	0.50
6:C:873:VAL:C	6:C:876:SER:H	2.16	0.50
6:C:879:MET:SD	6:C:3119:VAL:HA	2.52	0.50
6:C:1392:MET:O	6:C:1395:LEU:HB3	2.12	0.50
6:C:2160:TYR:O	6:C:2163:HIS:N	2.43	0.50
6:C:2239:LYS:NZ	6:C:2275:GLN:HB3	2.27	0.50
6:C:2307:MET:HB3	6:C:2348:GLN:NE2	2.27	0.50
6:C:2554:PHE:HA	6:C:2557:LEU:CD1	2.34	0.50
6:C:2795:GLN:HB3	6:C:2799:GLN:OE1	2.12	0.50
6:C:2946:GLU:HB2	6:C:2950:LYS:HE3	1.94	0.50
6:C:2953:THR:O	6:C:2957:LEU:HG	2.12	0.50
6:C:3184:THR:HG1	6:C:3185:ASN:H	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3298:LEU:HD23	6:C:3348:LEU:HB3	1.94	0.50
6:C:3319:ASN:HA	6:C:3396:ALA:CB	2.42	0.50
6:C:3733:ARG:HB3	6:C:3735:PRO:HD3	1.94	0.50
6:C:3976:GLU:OE2	6:C:3979:LEU:HD12	2.12	0.50
1:A:279:LYS:NZ	1:A:281:LEU:HD11	2.27	0.49
1:A:351:LYS:N	1:A:394:VAL:HG22	2.27	0.49
2:B:297:LEU:O	2:B:302:GLU:HB2	2.12	0.49
4:D:5:DT:C2	4:D:6:DT:C5	3.00	0.49
5:E:16:DC:H2'	5:E:18:DG:C6	2.46	0.49
6:C:275:PHE:CD1	6:C:280:SER:HB2	2.47	0.49
6:C:790:LYS:O	6:C:794:PRO:HG2	2.11	0.49
6:C:847:SER:HB2	6:C:850:GLU:HG3	1.94	0.49
6:C:917:LEU:HA	6:C:927:LYS:NZ	2.26	0.49
6:C:927:LYS:O	6:C:930:ALA:HB3	2.12	0.49
6:C:1170:LYS:HA	6:C:1267:TYR:CD1	2.47	0.49
6:C:1608:ARG:HB2	6:C:1633:TRP:HZ2	1.76	0.49
6:C:2218:PHE:O	6:C:2221:LYS:HB3	2.12	0.49
6:C:3050:LYS:HG3	6:C:3051:LEU:HG	1.94	0.49
6:C:3272:TRP:HB3	6:C:3276:TRP:HE1	1.77	0.49
6:C:3666:LEU:HG	6:C:3670:MET:SD	2.52	0.49
1:A:74:LYS:HA	1:A:77:SER:HG	1.77	0.49
1:A:215:LEU:HD12	1:A:216:PHE:H	1.77	0.49
2:B:138:LEU:O	2:B:142:PHE:HZ	1.95	0.49
2:B:386:ASP:N	2:B:386:ASP:OD1	2.43	0.49
6:C:33:GLN:HG3	6:C:34:LEU:N	2.27	0.49
6:C:348:ILE:HA	6:C:351:ASN:CB	2.42	0.49
6:C:593:ASN:OD1	6:C:1087:ARG:NH2	2.43	0.49
6:C:891:ARG:HH11	6:C:893:SER:HA	1.77	0.49
6:C:1703:THR:OG1	6:C:1704:GLY:N	2.45	0.49
6:C:1994:VAL:O	6:C:1998:MET:HG2	2.11	0.49
6:C:2061:PRO:HD2	6:C:2104:MET:HE1	1.94	0.49
6:C:2131:GLY:HA3	6:C:2141:ASN:HD21	1.77	0.49
6:C:2304:VAL:HG13	6:C:2345:VAL:HG22	1.94	0.49
6:C:2349:LEU:HD12	6:C:2364:LEU:HB3	1.93	0.49
6:C:2388:LYS:O	6:C:2392:VAL:HG23	2.11	0.49
6:C:3632:PHE:HE1	6:C:3682:GLU:HB2	1.76	0.49
6:C:3839:TYR:OH	6:C:4118:GLY:O	2.27	0.49
6:C:3959:MET:HE1	6:C:3962:ARG:HA	1.93	0.49
6:C:3974:MET:CA	6:C:3975:LYS:HB3	2.41	0.49
6:C:4006:VAL:O	6:C:4009:PRO:HD2	2.11	0.49
6:C:4016:PHE:HD1	6:C:4019:LYS:HD2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:4068:HIS:CG	6:C:4069:GLU:N	2.80	0.49
6:C:4100:GLU:N	6:C:4102:THR:OG1	2.44	0.49
1:A:353:LEU:N	1:A:393:GLU:OE2	2.45	0.49
2:B:234:LEU:HD22	2:B:237:PHE:CE2	2.47	0.49
2:B:362:LEU:HB2	2:B:421:TYR:H	1.78	0.49
2:B:454:VAL:H	2:B:532:LYS:NZ	2.09	0.49
2:B:460:SER:O	2:B:522:VAL:HG13	2.12	0.49
4:D:-6:DT:O4	5:E:42:DA:N6	2.45	0.49
5:E:17:DA:C8	5:E:18:DG:C4	3.00	0.49
6:C:437:HIS:HB2	6:C:1814:PHE:CB	2.36	0.49
6:C:592:GLU:O	6:C:596:GLU:HG3	2.12	0.49
6:C:852:ARG:NH2	6:C:3110:PHE:O	2.41	0.49
6:C:1403:MET:O	6:C:1407:LYS:HG3	2.12	0.49
6:C:2004:TYR:OH	6:C:2009:LYS:HE3	2.13	0.49
6:C:2227:LYS:HA	6:C:2231:PHE:O	2.12	0.49
6:C:2345:VAL:O	6:C:2348:GLN:HB3	2.12	0.49
6:C:2439:ILE:HG23	6:C:2440:TYR:CZ	2.47	0.49
6:C:2920:VAL:HA	6:C:2923:TRP:HD1	1.74	0.49
6:C:3025:PRO:O	6:C:3029:LYS:HG3	2.12	0.49
6:C:3353:GLU:HB2	6:C:3377:LEU:HG	1.93	0.49
6:C:3753:LYS:HG2	6:C:3803:ILE:HG21	1.93	0.49
6:C:3764:VAL:HG12	6:C:3768:PHE:HE2	1.76	0.49
6:C:3817:LEU:O	6:C:3820:MET:N	2.44	0.49
6:C:3855:TYR:HA	6:C:3858:MET:CE	2.41	0.49
6:C:3998:LEU:HD11	6:C:4002:MET:HG2	1.95	0.49
1:A:69:SER:CB	1:A:239:LEU:HD11	2.42	0.49
2:B:275:THR:O	2:B:276:TRP:HB2	2.11	0.49
5:E:27:DC:O2	5:E:27:DC:H2'	2.13	0.49
5:E:46:DT:H2'	5:E:47:DT:H6	1.72	0.49
6:C:187:SER:O	6:C:190:ILE:HB	2.12	0.49
6:C:323:VAL:O	6:C:327:VAL:HG23	2.11	0.49
6:C:437:HIS:HA	6:C:440:VAL:HG22	1.93	0.49
6:C:608:PRO:HB3	6:C:1801:VAL:HG13	1.93	0.49
6:C:852:ARG:NE	6:C:3111:MET:HA	2.27	0.49
6:C:923:ASP:OD1	6:C:923:ASP:N	2.45	0.49
6:C:1304:HIS:HA	6:C:1307:ILE:HG12	1.94	0.49
6:C:1372:LEU:HD11	6:C:1399:CYS:SG	2.52	0.49
6:C:1409:SER:HB3	6:C:1410:PRO:HD3	1.94	0.49
6:C:1633:TRP:CD1	6:C:1633:TRP:N	2.78	0.49
6:C:1726:SER:HA	6:C:1866:GLN:NE2	2.18	0.49
6:C:2021:GLY:HA3	6:C:2044:ASP:OD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2458:VAL:HG13	6:C:2473:MET:SD	2.52	0.49
6:C:3134:ALA:O	6:C:3137:GLU:HB2	2.12	0.49
6:C:3704:GLN:NE2	6:C:3802:LEU:HD22	2.26	0.49
6:C:3793:VAL:HG22	6:C:3803:ILE:HG13	1.93	0.49
1:A:73:SER:HB2	1:A:246:VAL:CG1	2.43	0.49
1:A:239:LEU:HG	1:A:243:LEU:HG	1.95	0.49
1:A:256:LEU:HD23	5:E:38:DA:O5'	2.13	0.49
1:A:306:SER:HB2	2:B:288:ASP:OD1	2.12	0.49
2:B:131:HIS:CE1	2:B:133:GLU:HB3	2.47	0.49
6:C:351:ASN:HB3	6:C:357:LYS:HZ1	1.78	0.49
6:C:369:PHE:CE1	6:C:373:CYS:HA	2.48	0.49
6:C:484:HIS:HA	6:C:487:LEU:HD23	1.94	0.49
6:C:624:ILE:H	6:C:659:ARG:NH1	2.11	0.49
6:C:898:PHE:HD1	6:C:2567:SER:HB3	1.78	0.49
6:C:941:MET:SD	6:C:959:TYR:HD1	2.34	0.49
6:C:992:ILE:HD11	6:C:1034:ARG:CG	2.43	0.49
6:C:1104:LEU:O	6:C:1108:MET:HG3	2.13	0.49
6:C:1426:GLN:O	6:C:1430:GLU:HG2	2.11	0.49
6:C:1759:LEU:HG	6:C:1893:GLU:H	1.78	0.49
6:C:1930:GLU:OE1	6:C:1930:GLU:N	2.44	0.49
6:C:2082:GLU:OE1	6:C:2082:GLU:N	2.46	0.49
6:C:2195:SER:HB2	6:C:2196:TRP:CZ3	2.47	0.49
6:C:2801:ASP:N	6:C:2802:PRO:HD2	2.26	0.49
6:C:2886:GLN:NE2	6:C:2922:ARG:HA	2.27	0.49
6:C:2989:ALA:O	6:C:2992:ASP:N	2.45	0.49
6:C:3120:LEU:HD13	6:C:3125:ARG:NH1	2.28	0.49
6:C:3231:ILE:O	6:C:3235:LYS:HG3	2.11	0.49
6:C:3276:TRP:HZ3	6:C:3303:THR:CB	2.22	0.49
6:C:3566:GLY:HA2	6:C:3569:GLN:HG2	1.94	0.49
1:A:43:ASP:CB	1:A:170:THR:HB	2.42	0.49
1:A:60:PHE:CZ	1:A:64:ILE:HD11	2.48	0.49
1:A:184:SER:HA	1:A:187:ARG:HG2	1.93	0.49
1:A:241:ASP:OD1	1:A:242:LEU:N	2.42	0.49
1:A:285:PRO:HA	2:B:314:PHE:CZ	2.48	0.49
1:A:345:LEU:HD11	1:A:400:TYR:CE1	2.48	0.49
1:A:397:LEU:HD11	1:A:437:LEU:HD11	1.94	0.49
1:A:438:PRO:HG2	2:B:479:THR:HB	1.94	0.49
2:B:66:ASN:ND2	2:B:77:ILE:HB	2.27	0.49
2:B:257:LEU:HD21	2:B:259:ILE:HD11	1.93	0.49
4:D:8:DT:C2	4:D:9:DG:C8	3.00	0.49
6:C:374:LYS:HG2	6:C:377:ASN:OD1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:389:ILE:HG21	6:C:431:TYR:CD1	2.45	0.49
6:C:395:MET:O	6:C:399:GLN:HG3	2.12	0.49
6:C:421:LEU:HD23	6:C:424:LEU:HD12	1.93	0.49
6:C:625:ASN:H	6:C:659:ARG:NH2	2.10	0.49
6:C:895:ALA:HB3	6:C:940:PHE:CE1	2.47	0.49
6:C:1009:LEU:O	6:C:1013:ILE:HG12	2.13	0.49
6:C:1946:ASN:CG	6:C:1994:VAL:HG23	2.33	0.49
6:C:2386:LEU:HD12	6:C:2401:VAL:HA	1.93	0.49
6:C:2962:ARG:HD3	6:C:3003:ASN:ND2	2.27	0.49
6:C:3125:ARG:C	6:C:3129:LEU:HG	2.33	0.49
6:C:3581:PRO:O	6:C:3584:LEU:HB2	2.13	0.49
6:C:3907:SER:OG	6:C:3908:HIS:N	2.46	0.49
1:A:74:LYS:O	1:A:78:SER:HA	2.12	0.49
1:A:92:LYS:HG2	1:A:93:ASP:N	2.27	0.49
1:A:172:GLU:OE2	1:A:175:PRO:HA	2.13	0.49
1:A:206:LYS:HZ1	1:A:208:PRO:HA	1.78	0.49
1:A:218:ARG:NH1	1:A:221:ILE:HG13	2.27	0.49
1:A:276:LEU:HA	2:B:431:ARG:HB3	1.94	0.49
1:A:304:ASN:OD1	1:A:306:SER:N	2.28	0.49
1:A:338:LYS:HB3	1:A:406:ILE:C	2.33	0.49
1:A:441:ASP:OD2	2:B:270:GLU:N	2.45	0.49
2:B:327:ASP:N	2:B:327:ASP:OD1	2.44	0.49
2:B:476:LEU:HB3	2:B:519:PRO:HD2	1.95	0.49
2:B:523:THR:O	2:B:527:GLN:NE2	2.46	0.49
6:C:175:TYR:CD1	6:C:223:CYS:HA	2.47	0.49
6:C:319:PHE:O	6:C:323:VAL:HG23	2.13	0.49
6:C:345:PHE:CZ	6:C:364:ARG:HA	2.42	0.49
6:C:567:GLU:O	6:C:570:LYS:N	2.45	0.49
6:C:584:GLU:CG	6:C:586:GLN:H	2.24	0.49
6:C:852:ARG:O	6:C:855:VAL:HB	2.12	0.49
6:C:938:VAL:HG22	6:C:962:TYR:CE2	2.48	0.49
6:C:978:GLN:HE21	6:C:982:GLN:HB2	1.77	0.49
6:C:1884:LEU:HA	6:C:1887:ASP:OD2	2.13	0.49
6:C:1938:ARG:HE	6:C:1983:ASP:CG	2.15	0.49
6:C:3084:GLN:O	6:C:3087:SER:N	2.45	0.49
6:C:3138:ILE:HD12	6:C:3189:PHE:HZ	1.77	0.49
6:C:3397:GLN:HB3	6:C:3398:PRO:HD3	1.94	0.49
6:C:3771:MET:HA	6:C:3774:ILE:HD13	1.95	0.49
6:C:4062:ASP:HA	6:C:4065:LEU:HD11	1.94	0.49
6:C:4113:ASP:O	6:C:4116:ILE:N	2.45	0.49
1:A:74:LYS:HD3	1:A:77:SER:OG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:LYS:HG3	1:A:101:ASN:CG	2.32	0.49
1:A:145:GLU:OE1	1:A:185:ARG:NE	2.46	0.49
4:D:-9:DC:H2''	4:D:-8:DT:O5'	2.10	0.49
4:D:9:DG:H1'	5:E:28:DA:C2	2.38	0.49
6:C:175:TYR:CZ	6:C:200:PHE:HD1	2.30	0.49
6:C:576:VAL:HA	6:C:601:TRP:HB2	1.95	0.49
6:C:703:CYS:O	6:C:707:PHE:HB3	2.13	0.49
6:C:1072:ALA:CB	6:C:1075:ARG:HG2	2.42	0.49
6:C:1141:LYS:H	6:C:1146:ASN:HD21	1.60	0.49
6:C:1164:CYS:HA	6:C:1256:TRP:CZ3	2.47	0.49
6:C:1302:ALA:O	6:C:1306:ILE:HD12	2.13	0.49
6:C:1878:ASP:HB2	6:C:1881:TYR:CD2	2.47	0.49
6:C:1952:ILE:HG12	6:C:1953:CYS:N	2.25	0.49
6:C:2028:LEU:HA	6:C:2030:TYR:CD2	2.47	0.49
6:C:2199:LEU:C	6:C:2202:PRO:HD2	2.33	0.49
6:C:2423:VAL:HG13	6:C:2424:MET:N	2.28	0.49
6:C:2452:ARG:O	6:C:2455:LEU:N	2.45	0.49
6:C:3036:TYR:HE2	6:C:3040:TYR:HB3	1.77	0.49
6:C:3249:GLN:O	6:C:3251:ASN:ND2	2.46	0.49
6:C:3479:THR:HG23	6:C:3480:LEU:HG	1.95	0.49
6:C:3505:LEU:HD12	6:C:3509:ASP:HB2	1.95	0.49
6:C:3807:GLU:O	6:C:3809:THR:OG1	2.30	0.49
1:A:288:LEU:O	2:B:310:ILE:HB	2.12	0.49
1:A:362:LEU:HA	2:B:359:ASN:O	2.13	0.49
1:A:372:GLU:HG2	1:A:379:SER:N	2.28	0.49
2:B:249:CYS:SG	2:B:339:CYS:HA	2.52	0.49
6:C:55:THR:O	6:C:56:SER:C	2.50	0.49
6:C:118:ASP:OD2	6:C:122:LYS:HG2	2.12	0.49
6:C:482:VAL:O	6:C:485:GLN:HB2	2.13	0.49
6:C:575:ILE:HG21	6:C:604:PRO:C	2.33	0.49
6:C:669:LEU:HD23	6:C:672:ILE:HD11	1.95	0.49
6:C:704:PHE:C	6:C:707:PHE:HB3	2.33	0.49
6:C:888:ARG:HB2	6:C:3889:ARG:HB2	1.95	0.49
6:C:1129:ASP:HA	6:C:1132:ASP:HB2	1.94	0.49
6:C:1638:PRO:O	6:C:1641:THR:N	2.46	0.49
6:C:2140:LEU:O	6:C:2143:ARG:CB	2.49	0.49
6:C:2156:VAL:O	6:C:2160:TYR:N	2.42	0.49
6:C:2230:VAL:HG12	6:C:2231:PHE:HD2	1.78	0.49
6:C:2936:TYR:CE2	6:C:2940:ARG:HB2	2.47	0.49
6:C:3329:LEU:HD12	6:C:3389:VAL:HG23	1.95	0.49
6:C:3426:LYS:NZ	6:C:3435:ASP:OD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3638:LYS:O	6:C:3642:LYS:HG3	2.12	0.49
6:C:3666:LEU:O	6:C:3670:MET:N	2.26	0.49
6:C:3678:GLY:HA3	6:C:3734:ARG:HH22	1.77	0.49
6:C:3789:ARG:NE	6:C:3938:ILE:HD13	2.28	0.49
6:C:3855:TYR:OH	6:C:4122:GLU:HG3	2.12	0.49
6:C:3872:ARG:NH1	6:C:4117:LEU:HD12	2.28	0.49
6:C:3951:GLN:NE2	6:C:4068:HIS:HB2	2.21	0.49
1:A:353:LEU:HD12	1:A:393:GLU:HA	1.95	0.49
1:A:421:ASP:CG	1:A:425:ILE:HG12	2.33	0.49
2:B:265:LYS:HZ3	5:E:28:DA:H5'	1.77	0.49
2:B:399:LYS:HG3	4:D:11:DC:C4'	2.37	0.49
5:E:29:DT:N3	5:E:30:DA:C5	2.81	0.49
5:E:44:DA:H4'	6:C:260:ILE:CD1	2.43	0.49
6:C:12:LEU:HA	6:C:38:LEU:HD22	1.93	0.49
6:C:382:ASP:N	6:C:382:ASP:OD1	2.45	0.49
6:C:563:LEU:HD11	6:C:1800:SER:HB3	1.95	0.49
6:C:1030:GLY:HA2	6:C:1033:ILE:HG22	1.94	0.49
6:C:1296:PHE:HE2	6:C:1361:LYS:HG2	1.77	0.49
6:C:1904:CYS:O	6:C:1908:GLY:N	2.31	0.49
6:C:1911:LEU:HD11	6:C:1913:LYS:HD2	1.95	0.49
6:C:1952:ILE:HG23	6:C:1956:PHE:HE1	1.78	0.49
6:C:2499:PHE:O	6:C:2502:ALA:HB3	2.12	0.49
6:C:2552:VAL:HA	6:C:2554:PHE:CE2	2.47	0.49
6:C:2874:ALA:O	6:C:2877:SER:N	2.45	0.49
6:C:2948:GLY:O	6:C:2951:GLN:HB2	2.13	0.49
6:C:3031:TRP:CZ3	6:C:3034:PRO:HD3	2.47	0.49
6:C:3413:TYR:CB	6:C:3449:LYS:HG2	2.43	0.49
6:C:3424:LEU:HB2	6:C:3439:LEU:HD11	1.93	0.49
6:C:3641:ASP:HA	6:C:3644:PHE:CD2	2.48	0.49
6:C:3718:ARG:HB2	6:C:3743:HIS:CG	2.48	0.49
6:C:3789:ARG:HH21	6:C:3940:ILE:HD12	1.78	0.49
6:C:3974:MET:HB2	6:C:3976:GLU:OE2	2.13	0.49
6:C:4038:TRP:CG	6:C:4039:TYR:N	2.80	0.49
1:A:194:ARG:O	1:A:197:GLY:N	2.39	0.48
1:A:406:ILE:HD12	1:A:407:PRO:HD2	1.95	0.48
2:B:339:CYS:SG	2:B:394:ARG:NE	2.86	0.48
5:E:16:DC:H2''	5:E:17:DA:H2'	1.95	0.48
6:C:43:VAL:O	6:C:46:SER:OG	2.20	0.48
6:C:287:LEU:HD11	6:C:291:VAL:HB	1.94	0.48
6:C:635:PRO:O	6:C:638:GLN:HB2	2.13	0.48
6:C:712:LYS:O	6:C:715:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:738:HIS:CE1	6:C:748:TYR:CG	3.01	0.48
6:C:908:ASP:C	6:C:2807:GLN:HE21	2.16	0.48
6:C:911:LEU:HD23	6:C:914:VAL:HG21	1.94	0.48
6:C:1422:LYS:HE3	6:C:1426:GLN:HG2	1.95	0.48
6:C:1934:LEU:HD12	6:C:1937:ARG:H	1.78	0.48
6:C:2307:MET:HA	6:C:2315:VAL:CB	2.40	0.48
6:C:2526:SER:HA	6:C:2530:ARG:HD3	1.93	0.48
6:C:2900:LEU:N	6:C:2902:PRO:HD2	2.28	0.48
6:C:3015:SER:OG	6:C:3043:TYR:HB3	2.13	0.48
6:C:3077:ILE:HG13	6:C:3078:LEU:H	1.78	0.48
6:C:3130:GLN:CG	6:C:3178:ILE:HG12	2.43	0.48
6:C:3148:GLN:HE21	6:C:3196:LYS:HE2	1.76	0.48
6:C:3865:THR:O	6:C:3869:THR:HG23	2.13	0.48
6:C:3963:LEU:HD12	6:C:3967:PHE:HD2	1.77	0.48
6:C:4065:LEU:CD1	6:C:4078:VAL:HG11	2.43	0.48
1:A:69:SER:HB2	1:A:239:LEU:HD11	1.95	0.48
1:A:339:ARG:NH1	1:A:405:ASN:HD22	2.11	0.48
1:A:384:ALA:HA	1:A:387:ILE:HD12	1.94	0.48
2:B:107:PHE:CE1	2:B:138:LEU:HD23	2.48	0.48
4:D:17:DG:H2''	4:D:18:DC:OP2	2.12	0.48
5:E:46:DT:H6	5:E:46:DT:O5'	1.97	0.48
6:C:109:ASN:O	6:C:112:THR:HB	2.12	0.48
6:C:111:CYS:HB3	6:C:134:LEU:HD22	1.95	0.48
6:C:847:SER:O	6:C:850:GLU:HB2	2.12	0.48
6:C:1016:GLY:HA2	6:C:1019:ASP:HB2	1.95	0.48
6:C:1216:GLY:HA2	6:C:1219:PHE:CD2	2.48	0.48
6:C:1256:TRP:CZ3	6:C:1259:LEU:HD12	2.48	0.48
6:C:1978:PHE:O	6:C:1982:ILE:HG13	2.13	0.48
6:C:2931:ARG:NE	6:C:2956:ALA:HB1	2.17	0.48
6:C:3180:ASP:O	6:C:3184:THR:HG23	2.13	0.48
6:C:3300:VAL:O	6:C:3303:THR:N	2.45	0.48
6:C:3475:TYR:O	6:C:3479:THR:HG22	2.12	0.48
6:C:3909:ALA:HA	6:C:3984:MET:HE1	1.94	0.48
6:C:3923:ARG:HA	6:C:3927:ASN:CB	2.37	0.48
6:C:3923:ARG:HD2	6:C:3928:PHE:CE2	2.49	0.48
1:A:44:ALA:HB3	1:A:88:TYR:O	2.14	0.48
1:A:477:SER:N	2:B:427:MET:SD	2.62	0.48
1:A:522:VAL:HG11	2:B:256:ASN:HB3	1.94	0.48
2:B:191:SER:HB2	2:B:232:ARG:NH2	2.27	0.48
2:B:487:PHE:CE1	2:B:488:GLN:HG2	2.49	0.48
4:D:4:DA:C2	5:E:33:DA:C4	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:411:PRO:HA	6:C:414:LEU:HB3	1.94	0.48
6:C:575:ILE:HA	6:C:578:LYS:HB2	1.95	0.48
6:C:616:LYS:O	6:C:620:PHE:HD2	1.95	0.48
6:C:675:ARG:O	6:C:678:LYS:HB3	2.13	0.48
6:C:743:LEU:HD23	6:C:783:HIS:HE1	1.77	0.48
6:C:977:ASP:HB2	6:C:980:THR:OG1	2.14	0.48
6:C:993:HIS:O	6:C:996:THR:OG1	2.30	0.48
6:C:1128:CYS:O	6:C:1131:ILE:HG12	2.13	0.48
6:C:1153:LEU:HB3	6:C:1157:PHE:CE2	2.47	0.48
6:C:1405:ALA:O	6:C:1410:PRO:HG2	2.14	0.48
6:C:1649:LEU:O	6:C:1652:ILE:N	2.47	0.48
6:C:2195:SER:HB2	6:C:2196:TRP:CE3	2.48	0.48
6:C:2227:LYS:CG	6:C:2232:ARG:HA	2.36	0.48
6:C:2549:LYS:HD3	6:C:2554:PHE:CG	2.48	0.48
6:C:2552:VAL:C	6:C:2554:PHE:HD2	2.17	0.48
6:C:2809:PHE:HA	6:C:2812:LEU:HG	1.95	0.48
6:C:2918:PRO:O	6:C:2921:LEU:HG	2.13	0.48
6:C:3008:TRP:CG	6:C:3009:LYS:N	2.80	0.48
6:C:3120:LEU:HA	6:C:3125:ARG:HH11	1.78	0.48
6:C:3681:LYS:HZ1	6:C:3725:ARG:HG2	1.78	0.48
6:C:3922:ASP:O	6:C:3923:ARG:HD3	2.13	0.48
6:C:4065:LEU:HD11	6:C:4078:VAL:HG11	1.95	0.48
1:A:89:GLY:HA2	1:A:101:ASN:HB3	1.95	0.48
1:A:132:GLN:HB3	1:A:137:HIS:HB3	1.94	0.48
1:A:294:GLU:HB3	2:B:298:ASN:ND2	2.27	0.48
2:B:33:GLN:HB3	2:B:227:PHE:HB3	1.96	0.48
2:B:35:LYS:O	2:B:39:THR:HB	2.13	0.48
2:B:66:ASN:ND2	2:B:74:TYR:HB3	2.29	0.48
2:B:352:GLN:HB2	2:B:355:PHE:CD2	2.48	0.48
6:C:79:ARG:HH22	6:C:121:ALA:HB3	1.78	0.48
6:C:204:LEU:HD13	6:C:220:LEU:HD23	1.94	0.48
6:C:382:ASP:HA	6:C:385:TYR:CZ	2.48	0.48
6:C:1339:VAL:HG23	6:C:1340:ARG:HG2	1.94	0.48
6:C:1996:VAL:HG12	6:C:2050:GLN:HE21	1.77	0.48
6:C:2154:GLU:OE1	6:C:2157:PHE:HD1	1.97	0.48
6:C:2327:LEU:O	6:C:2331:MET:HG3	2.13	0.48
6:C:2523:ASN:HB3	6:C:2527:HIS:NE2	2.27	0.48
6:C:2921:LEU:HD12	6:C:2922:ARG:HG2	1.94	0.48
6:C:3004:HIS:ND1	6:C:3046:ARG:HG2	2.29	0.48
6:C:3159:ARG:HG2	6:C:3161:LEU:H	1.78	0.48
6:C:3298:LEU:CA	6:C:3301:LEU:HB3	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3467:ARG:HA	6:C:3470:GLN:OE1	2.12	0.48
6:C:4085:LYS:HA	6:C:4088:ASN:CB	2.44	0.48
1:A:144:SER:CB	1:A:185:ARG:HG2	2.44	0.48
1:A:256:LEU:HG	5:E:38:DA:O4'	2.13	0.48
5:E:17:DA:H2''	5:E:18:DG:O4'	2.14	0.48
5:E:45:DG:H2'	5:E:46:DT:C5	2.49	0.48
6:C:381:VAL:HB	6:C:384:MET:HB2	1.95	0.48
6:C:393:LYS:HE2	6:C:397:LEU:HD13	1.95	0.48
6:C:531:PHE:N	6:C:531:PHE:CD1	2.80	0.48
6:C:706:LEU:HD21	6:C:1385:ASN:HB3	1.94	0.48
6:C:933:LEU:HD12	6:C:936:SER:HB2	1.96	0.48
6:C:1113:LEU:HA	6:C:1116:ALA:HB2	1.95	0.48
6:C:1250:LEU:O	6:C:1255:CYS:N	2.46	0.48
6:C:1437:TYR:HE2	6:C:1444:ASP:HB3	1.78	0.48
6:C:1549:SER:HA	6:C:1553:PHE:CD2	2.45	0.48
6:C:1676:ILE:HG23	6:C:1679:LEU:HD23	1.94	0.48
6:C:1889:VAL:HG23	6:C:1897:ASN:OD1	2.14	0.48
6:C:2169:LEU:HA	6:C:2172:ALA:HB3	1.96	0.48
6:C:2208:ASP:HA	6:C:2211:LEU:HD12	1.95	0.48
6:C:2252:PRO:HD2	6:C:2253:TYR:CE1	2.47	0.48
6:C:2446:LEU:HD22	6:C:2450:GLU:HG3	1.96	0.48
6:C:2546:TYR:HB3	6:C:2549:LYS:HZ1	1.78	0.48
6:C:2558:ALA:O	6:C:2561:PHE:HB2	2.14	0.48
6:C:3172:LYS:HB3	6:C:3179:TRP:HD1	1.78	0.48
6:C:3247:ARG:HH21	6:C:3278:GLN:HA	1.77	0.48
6:C:3815:LEU:HA	6:C:3818:ASN:HD21	1.78	0.48
6:C:3847:SER:HB3	6:C:3854:ALA:O	2.12	0.48
6:C:3888:VAL:HA	6:C:3891:SER:HB2	1.95	0.48
6:C:3951:GLN:HG3	6:C:4065:LEU:HA	1.96	0.48
6:C:3959:MET:HB3	6:C:3961:PHE:O	2.13	0.48
6:C:4011:PHE:HA	6:C:4015:ASN:HB2	1.95	0.48
6:C:4013:TRP:O	6:C:4017:GLU:HG3	2.13	0.48
6:C:4060:THR:O	6:C:4064:LEU:HG	2.12	0.48
6:C:4095:GLU:CG	6:C:4098:LEU:H	2.26	0.48
1:A:82:LEU:HG	1:A:110:ASN:N	2.27	0.48
1:A:412:ALA:HB2	1:A:437:LEU:HD21	1.96	0.48
2:B:13:CYS:HB3	2:B:134:ILE:HG13	1.95	0.48
2:B:108:LEU:HD13	2:B:146:GLN:H	1.78	0.48
2:B:135:PHE:HB3	2:B:227:PHE:CE1	2.48	0.48
5:E:23:DT:C4	5:E:24:DG:C6	3.01	0.48
5:E:39:DA:H2'	5:E:40:DT:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:17:GLU:CD	6:C:65:LEU:HD21	2.34	0.48
6:C:393:LYS:NZ	6:C:1865:THR:HG23	2.29	0.48
6:C:396:PHE:HZ	6:C:1814:PHE:CB	2.27	0.48
6:C:989:MET:HB2	6:C:2776:ARG:NH2	2.29	0.48
6:C:1160:SER:HB2	6:C:1165:LEU:HD21	1.95	0.48
6:C:1238:GLN:O	6:C:1241:LEU:HB3	2.14	0.48
6:C:1434:VAL:HA	6:C:1437:TYR:CD2	2.48	0.48
6:C:1564:SER:C	6:C:1567:ILE:HB	2.34	0.48
6:C:1632:TRP:O	6:C:1635:LYS:N	2.46	0.48
6:C:2192:THR:O	6:C:2195:SER:N	2.33	0.48
6:C:2276:LEU:CD1	6:C:2280:VAL:HG23	2.43	0.48
6:C:2478:MET:O	6:C:2481:HIS:N	2.47	0.48
6:C:2505:VAL:O	6:C:2508:GLN:HB2	2.12	0.48
6:C:2542:LEU:HG	6:C:2546:TYR:CE2	2.49	0.48
6:C:2911:ARG:HB2	6:C:2914:ALA:HB2	1.95	0.48
6:C:3038:GLU:HA	6:C:3041:LEU:HB2	1.95	0.48
6:C:3148:GLN:NE2	6:C:3196:LYS:HE2	2.29	0.48
6:C:3400:SER:O	6:C:3409:VAL:HG13	2.13	0.48
6:C:3538:GLU:HG3	6:C:3757:ASP:OD2	2.14	0.48
6:C:3612:ARG:O	6:C:3616:ALA:HB2	2.13	0.48
6:C:3652:LEU:HG	6:C:3653:ARG:NH1	2.28	0.48
6:C:3795:PRO:HA	6:C:3801:GLY:HA3	1.94	0.48
6:C:4080:VAL:O	6:C:4115:ASN:ND2	2.47	0.48
1:A:94:LYS:O	1:A:104:VAL:HG23	2.13	0.48
1:A:245:LYS:NZ	1:A:249:LYS:HD2	2.28	0.48
1:A:349:GLY:HA2	2:B:461:MET:HG2	1.96	0.48
2:B:386:ASP:CG	2:B:387:LEU:HG	2.34	0.48
2:B:455:ASP:HA	2:B:458:ILE:HD12	1.96	0.48
4:D:-2:DT:C4	5:E:38:DA:C6	3.02	0.48
4:D:-1:DA:C2	5:E:38:DA:H2	2.31	0.48
5:E:17:DA:H8	5:E:18:DG:C4	2.31	0.48
6:C:275:PHE:CE1	6:C:280:SER:HB2	2.48	0.48
6:C:446:PHE:HD1	6:C:448:GLN:CA	2.27	0.48
6:C:714:VAL:HG13	6:C:734:LEU:HD13	1.95	0.48
6:C:1062:ARG:HG3	6:C:1063:LEU:N	2.29	0.48
6:C:1107:TYR:CE2	6:C:1111:LEU:HD22	2.49	0.48
6:C:1280:GLN:HE21	6:C:1284:THR:HA	1.78	0.48
6:C:1805:PHE:CZ	6:C:1809:ASP:HA	2.48	0.48
6:C:2131:GLY:C	6:C:2137:ILE:HA	2.34	0.48
6:C:2218:PHE:CD2	6:C:2219:LEU:HD23	2.49	0.48
6:C:2226:PRO:HA	6:C:2229:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2241:LEU:O	6:C:2245:TRP:CD1	2.67	0.48
6:C:2254:ARG:HG3	6:C:2255:LEU:HG	1.96	0.48
6:C:2279:ILE:O	6:C:2282:ALA:HB3	2.12	0.48
6:C:2381:ALA:O	6:C:2383:PHE:N	2.47	0.48
6:C:2572:TYR:OH	6:C:2790:LEU:HA	2.14	0.48
6:C:2830:ASN:O	6:C:2834:GLN:HG2	2.14	0.48
6:C:2962:ARG:HH12	6:C:3008:TRP:HB3	1.74	0.48
6:C:3011:LEU:CD2	6:C:3047:SER:HA	2.44	0.48
6:C:3178:ILE:O	6:C:3181:ASP:N	2.47	0.48
6:C:3272:TRP:HB3	6:C:3276:TRP:NE1	2.28	0.48
6:C:3492:CYS:SG	6:C:3524:ASN:HB3	2.53	0.48
6:C:3522:THR:HG21	6:C:3558:ILE:HD12	1.96	0.48
6:C:3531:TYR:O	6:C:3533:PHE:N	2.47	0.48
6:C:3855:TYR:HA	6:C:3858:MET:HE3	1.96	0.48
1:A:40:PHE:CE2	1:A:71:TYR:HB2	2.44	0.48
1:A:336:GLU:HG3	1:A:339:ARG:CZ	2.43	0.48
1:A:413:LEU:CD2	1:A:434:LEU:HA	2.44	0.48
2:B:244:SER:HG	2:B:264:TYR:HD1	1.62	0.48
2:B:464:ALA:CA	2:B:475:ASP:HA	2.44	0.48
2:B:466:LYS:N	2:B:473:LEU:HG	2.29	0.48
2:B:511:HIS:HA	2:B:514:ASN:ND2	2.29	0.48
6:C:175:TYR:CZ	6:C:200:PHE:CD1	3.01	0.48
6:C:258:PRO:HB2	6:C:261:ASP:OD1	2.13	0.48
6:C:291:VAL:O	6:C:295:GLU:HG2	2.14	0.48
6:C:557:SER:HA	6:C:616:LYS:HZ3	1.79	0.48
6:C:752:LEU:HD12	6:C:753:GLN:N	2.29	0.48
6:C:1695:LEU:O	6:C:1698:PHE:N	2.38	0.48
6:C:2056:SER:HB2	6:C:2057:GLN:O	2.13	0.48
6:C:2251:ILE:HA	6:C:2253:TYR:CD2	2.48	0.48
6:C:2260:PHE:HE1	6:C:2270:ASN:HA	1.78	0.48
6:C:2430:GLU:O	6:C:2433:LYS:HB2	2.14	0.48
6:C:2779:ASP:O	6:C:2783:ILE:HG12	2.13	0.48
6:C:2976:LEU:HB3	6:C:2978:LYS:NZ	2.28	0.48
6:C:3182:ILE:O	6:C:3185:ASN:N	2.45	0.48
6:C:3611:GLU:O	6:C:3615:ALA:HB3	2.13	0.48
6:C:3791:TYR:CE2	6:C:3942:PHE:CE2	3.01	0.48
6:C:3862:ALA:O	6:C:3866:GLU:HG3	2.13	0.48
6:C:3927:ASN:HA	6:C:3929:MET:HE2	1.95	0.48
1:A:50:GLU:O	1:A:58:THR:OG1	2.25	0.48
1:A:99:PHE:HZ	6:C:2418:LYS:HE2	1.78	0.48
1:A:338:LYS:NZ	1:A:404:ARG:O	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:80:HIS:HE2	2:B:81:ARG:HH21	1.61	0.48
2:B:132:ILE:N	2:B:159:ILE:HG23	2.29	0.48
2:B:229:GLU:HA	2:B:232:ARG:HG3	1.96	0.48
2:B:400:ARG:HD3	4:D:10:DG:O4'	2.13	0.48
4:D:-9:DC:O5'	4:D:-9:DC:H6	1.96	0.48
4:D:-2:DT:H6	4:D:-2:DT:O5'	1.96	0.48
5:E:45:DG:H2'	5:E:46:DT:C6	2.49	0.48
6:C:10:CYS:O	6:C:13:LEU:N	2.46	0.48
6:C:96:MET:HB3	6:C:98:GLN:O	2.14	0.48
6:C:166:ILE:HD12	6:C:170:VAL:HG13	1.96	0.48
6:C:169:THR:OG1	6:C:170:VAL:N	2.46	0.48
6:C:207:GLN:HE22	6:C:219:VAL:HB	1.78	0.48
6:C:396:PHE:CZ	6:C:1814:PHE:HB2	2.46	0.48
6:C:850:GLU:HA	6:C:853:ILE:CD1	2.44	0.48
6:C:929:ALA:HB1	6:C:2798:ALA:CB	2.44	0.48
6:C:995:PHE:CG	6:C:1002:GLU:HB2	2.49	0.48
6:C:2049:VAL:HA	6:C:2052:TYR:CD2	2.49	0.48
6:C:2200:ALA:O	6:C:2203:THR:HG22	2.13	0.48
6:C:2300:PHE:O	6:C:2304:VAL:HG23	2.14	0.48
6:C:2315:VAL:O	6:C:2318:ALA:HB3	2.14	0.48
6:C:2381:ALA:C	6:C:2383:PHE:N	2.67	0.48
6:C:2916:LEU:HD22	6:C:2990:GLU:HG3	1.94	0.48
6:C:2928:LYS:HA	6:C:2931:ARG:HH22	1.79	0.48
6:C:2936:TYR:O	6:C:2936:TYR:CG	2.67	0.48
6:C:2977:ASN:CB	6:C:2980:ASP:HB2	2.44	0.48
6:C:3135:LEU:O	6:C:3138:ILE:N	2.45	0.48
6:C:3194:GLU:HG3	6:C:3197:LEU:HD12	1.96	0.48
6:C:3272:TRP:C	6:C:3276:TRP:HD1	2.17	0.48
6:C:3761:ASP:HA	6:C:3764:VAL:HG23	1.96	0.48
1:A:143:LEU:N	1:A:185:ARG:HH21	2.12	0.48
1:A:247:ARG:HA	1:A:247:ARG:HD3	1.58	0.48
1:A:247:ARG:HD2	1:A:501:GLU:OE1	2.13	0.48
1:A:304:ASN:H	1:A:309:GLY:C	2.16	0.48
1:A:325:ARG:NH1	2:B:498:ALA:O	2.47	0.48
1:A:407:PRO:HG2	1:A:409:TYR:OH	2.14	0.48
1:A:407:PRO:HG3	2:B:486:ARG:HG3	1.95	0.48
2:B:83:LEU:HD12	2:B:121:GLU:HB2	1.96	0.48
2:B:345:PHE:HD1	2:B:391:ALA:HA	1.79	0.48
2:B:508:ILE:HG13	2:B:510:GLN:NE2	2.29	0.48
2:B:540:ILE:O	2:B:541:GLU:HB2	2.14	0.48
6:C:60:SER:HB3	6:C:103:TYR:OH	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:338:LEU:HD23	6:C:342:MET:HG3	1.95	0.48
6:C:345:PHE:O	6:C:348:ILE:N	2.44	0.48
6:C:455:LEU:O	6:C:458:CYS:HB2	2.13	0.48
6:C:468:LEU:CA	6:C:471:LYS:HE3	2.40	0.48
6:C:471:LYS:HZ3	6:C:474:VAL:H	1.62	0.48
6:C:527:TYR:CE2	6:C:531:PHE:HZ	2.32	0.48
6:C:745:VAL:HG13	6:C:748:TYR:CD2	2.49	0.48
6:C:754:MET:CE	6:C:1020:PRO:HG3	2.44	0.48
6:C:925:GLN:CD	6:C:2801:ASP:HB3	2.34	0.48
6:C:1034:ARG:NE	6:C:1037:LEU:HD23	2.29	0.48
6:C:1122:GLY:C	6:C:1124:ILE:HG13	2.34	0.48
6:C:1144:SER:O	6:C:1148:ALA:HB2	2.14	0.48
6:C:1145:LEU:O	6:C:1150:LYS:NZ	2.42	0.48
6:C:1254:LEU:HA	6:C:1258:ASP:OD2	2.13	0.48
6:C:1298:LEU:HA	6:C:1301:ILE:HB	1.95	0.48
6:C:1453:SER:HA	6:C:1456:LYS:HG3	1.95	0.48
6:C:2039:GLU:HB2	6:C:2073:ASP:OD2	2.14	0.48
6:C:2212:ALA:O	6:C:2216:LEU:HG	2.14	0.48
6:C:2492:ASP:OD2	6:C:2494:ASP:N	2.46	0.48
6:C:3108:GLN:HA	6:C:3111:MET:SD	2.54	0.48
6:C:3495:PHE:CZ	6:C:3502:MET:HB2	2.49	0.48
6:C:3770:VAL:O	6:C:3773:GLY:CA	2.62	0.48
6:C:3838:GLU:O	6:C:3841:ASP:HB2	2.14	0.48
6:C:3869:THR:OG1	6:C:3870:SER:N	2.47	0.48
6:C:3878:VAL:N	6:C:3879:PRO:HD2	2.29	0.48
6:C:4039:TYR:HB3	6:C:4042:GLN:H	1.79	0.48
1:A:290:ARG:HH22	2:B:307:LYS:HG3	1.78	0.47
1:A:397:LEU:HD23	2:B:477:PHE:HD2	1.78	0.47
1:A:416:GLN:CD	1:A:428:THR:HB	2.33	0.47
2:B:76:ASN:HD22	2:B:105:ALA:N	2.12	0.47
2:B:227:PHE:O	2:B:230:SER:HB2	2.14	0.47
4:D:-3:DT:P	6:C:169:THR:HG21	2.53	0.47
4:D:7:DA:N6	5:E:28:DA:N6	2.62	0.47
5:E:19:DC:O2	5:E:20:DT:H1'	2.13	0.47
6:C:33:GLN:O	6:C:36:ARG:HB2	2.14	0.47
6:C:61:ARG:O	6:C:65:LEU:HG	2.13	0.47
6:C:85:ILE:HG22	6:C:89:LEU:HG	1.94	0.47
6:C:343:GLU:HA	6:C:346:TYR:HB3	1.96	0.47
6:C:349:ILE:HG23	6:C:368:LEU:HD21	1.96	0.47
6:C:442:GLN:OE1	6:C:443:ILE:HG12	2.14	0.47
6:C:628:GLU:OE2	6:C:634:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:756:PHE:HB3	6:C:773:LEU:HD13	1.95	0.47
6:C:776:TRP:CZ2	6:C:780:ILE:HG13	2.49	0.47
6:C:1135:CYS:CA	6:C:1138:ILE:HB	2.43	0.47
6:C:1238:GLN:OE1	6:C:1298:LEU:HG	2.14	0.47
6:C:1301:ILE:HD13	6:C:1304:HIS:ND1	2.29	0.47
6:C:1406:LEU:O	6:C:1410:PRO:HB2	2.14	0.47
6:C:1763:THR:HB	6:C:1857:LYS:HB3	1.95	0.47
6:C:2023:SER:HA	6:C:2069:ARG:HE	1.79	0.47
6:C:2032:ALA:HB1	6:C:2035:THR:OG1	2.13	0.47
6:C:2324:GLY:HA3	6:C:2370:SER:HB3	1.96	0.47
6:C:2482:ASP:HA	6:C:2485:ARG:HE	1.79	0.47
6:C:2799:GLN:C	6:C:2802:PRO:HD2	2.35	0.47
6:C:2929:LEU:O	6:C:2933:ILE:HG13	2.14	0.47
6:C:3026:ASP:O	6:C:3030:ILE:HB	2.14	0.47
6:C:3353:GLU:HB3	6:C:3373:VAL:N	2.29	0.47
6:C:3718:ARG:HD2	6:C:3743:HIS:CD2	2.48	0.47
6:C:3858:MET:C	6:C:3864:ARG:HH21	2.17	0.47
1:A:166:ILE:HB	1:A:200:LEU:HB2	1.96	0.47
1:A:272:GLY:O	1:A:368:VAL:HG13	2.14	0.47
1:A:359:HIS:HB3	1:A:360:HIS:HD2	1.79	0.47
1:A:366:LEU:O	1:A:434:LEU:HD22	2.14	0.47
2:B:152:HIS:HA	2:B:155:LYS:HG3	1.96	0.47
4:D:1:DG:C6	4:D:2:DG:C6	3.03	0.47
6:C:10:CYS:HA	6:C:13:LEU:HB2	1.96	0.47
6:C:343:GLU:HA	6:C:346:TYR:CB	2.44	0.47
6:C:416:SER:O	6:C:420:VAL:HG23	2.14	0.47
6:C:1080:LEU:HD23	6:C:1127:CYS:HA	1.96	0.47
6:C:1333:SER:O	6:C:1336:THR:N	2.47	0.47
6:C:1407:LYS:HA	6:C:1412:LYS:HZ3	1.80	0.47
6:C:1708:GLU:HA	6:C:1711:ARG:CZ	2.45	0.47
6:C:1963:GLN:OE1	6:C:1966:LEU:HD12	2.13	0.47
6:C:1981:LEU:O	6:C:1984:LEU:HB3	2.13	0.47
6:C:1981:LEU:O	6:C:1985:LYS:HG2	2.13	0.47
6:C:2475:ASN:O	6:C:2478:MET:HB2	2.13	0.47
6:C:2525:TRP:CZ3	6:C:2529:THR:HG21	2.49	0.47
6:C:2921:LEU:HD12	6:C:2922:ARG:N	2.29	0.47
6:C:3130:GLN:HG3	6:C:3178:ILE:HG23	1.97	0.47
1:A:114:LYS:HE3	1:A:117:LEU:HD22	1.96	0.47
1:A:330:GLU:HG3	1:A:332:GLU:N	2.29	0.47
1:A:365:SER:OG	1:A:366:LEU:O	2.18	0.47
1:A:486:HIS:ND1	1:A:489:ASN:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:13:CYS:HG	2:B:59:PHE:HE2	1.60	0.47
2:B:148:ASP:HA	2:B:151:ILE:HB	1.97	0.47
2:B:151:ILE:HG22	2:B:155:LYS:HZ2	1.79	0.47
2:B:185:LEU:O	2:B:231:LEU:HB2	2.14	0.47
2:B:340:PHE:HA	2:B:394:ARG:O	2.14	0.47
2:B:408:ALA:HA	2:B:420:VAL:O	2.15	0.47
6:C:108:LYS:HE3	6:C:153:PHE:CE2	2.49	0.47
6:C:194:GLU:O	6:C:198:ARG:HG3	2.15	0.47
6:C:291:VAL:HG11	6:C:344:GLN:HG3	1.97	0.47
6:C:568:PHE:CE1	6:C:604:PRO:HB3	2.48	0.47
6:C:659:ARG:HG3	6:C:663:ILE:HG12	1.96	0.47
6:C:792:ILE:HG22	6:C:796:LEU:CG	2.44	0.47
6:C:792:ILE:HG22	6:C:796:LEU:HG	1.95	0.47
6:C:878:GLU:OE1	6:C:881:LYS:HD3	2.14	0.47
6:C:964:ARG:HH12	6:C:971:ARG:NH2	2.13	0.47
6:C:1080:LEU:HD23	6:C:1127:CYS:SG	2.54	0.47
6:C:1103:ALA:O	6:C:1107:TYR:HB2	2.13	0.47
6:C:1171:TRP:CZ3	6:C:1176:CYS:SG	3.07	0.47
6:C:1594:SER:OG	6:C:1595:ALA:N	2.44	0.47
6:C:2083:LEU:HD22	6:C:2178:GLY:N	2.30	0.47
6:C:2253:TYR:O	6:C:2256:ILE:HB	2.13	0.47
6:C:2349:LEU:HD23	6:C:2350:LYS:N	2.29	0.47
6:C:2363:CYS:C	6:C:2365:ASN:N	2.67	0.47
6:C:2395:THR:O	6:C:2398:LEU:HB3	2.15	0.47
6:C:2542:LEU:HG	6:C:2546:TYR:OH	2.14	0.47
6:C:2808:LEU:HB2	6:C:2809:PHE:CE1	2.48	0.47
6:C:2907:ALA:O	6:C:2910:VAL:HG12	2.15	0.47
6:C:2928:LYS:HE2	6:C:3784:ARG:HH22	1.79	0.47
6:C:3290:SER:HB3	6:C:3992:ARG:HH22	1.80	0.47
6:C:3608:LYS:HA	6:C:3611:GLU:CD	2.34	0.47
6:C:3762:GLN:O	6:C:3766:GLN:HG3	2.13	0.47
6:C:3763:ARG:NH2	6:C:4008:GLU:HB3	2.28	0.47
6:C:3821:SER:H	6:C:3829:LEU:HD23	1.79	0.47
6:C:4055:ASN:HD22	6:C:4107:LEU:HD11	1.77	0.47
1:A:61:ASP:O	1:A:64:ILE:N	2.47	0.47
1:A:148:TRP:O	1:A:152:ASN:HB2	2.14	0.47
1:A:189:LYS:HA	1:A:192:ASP:OD2	2.14	0.47
1:A:282:LYS:NZ	5:E:31:DA:OP2	2.31	0.47
1:A:409:TYR:OH	2:B:486:ARG:HB2	2.14	0.47
1:A:459:VAL:HA	1:A:462:MET:HB2	1.96	0.47
1:A:534:TYR:CZ	2:B:260:ARG:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:365:PHE:CG	2:B:366:ALA:N	2.83	0.47
2:B:376:ALA:O	2:B:379:SER:HB2	2.14	0.47
4:D:-7:DA:C2	5:E:44:DA:C2	3.02	0.47
5:E:29:DT:O4	5:E:30:DA:N6	2.47	0.47
6:C:103:TYR:O	6:C:107:ILE:HB	2.13	0.47
6:C:563:LEU:O	6:C:566:ASP:HB2	2.14	0.47
6:C:746:ARG:N	6:C:748:TYR:CE2	2.70	0.47
6:C:957:PRO:HA	6:C:960:GLN:HB3	1.95	0.47
6:C:1034:ARG:NH1	6:C:1034:ARG:O	2.41	0.47
6:C:1239:PRO:HA	6:C:1242:LEU:HD12	1.96	0.47
6:C:1758:LEU:HB3	6:C:1761:LEU:HB3	1.96	0.47
6:C:1873:TYR:CD2	6:C:1873:TYR:N	2.82	0.47
6:C:1896:ILE:O	6:C:1899:VAL:HB	2.14	0.47
6:C:1930:GLU:O	6:C:1931:ASN:ND2	2.47	0.47
6:C:1981:LEU:HA	6:C:1984:LEU:HB3	1.95	0.47
6:C:1988:TYR:C	6:C:1991:PRO:HD2	2.34	0.47
6:C:2024:TYR:CZ	6:C:2069:ARG:HA	2.49	0.47
6:C:2196:TRP:CD1	6:C:2200:ALA:N	2.82	0.47
6:C:2218:PHE:HD2	6:C:2219:LEU:HD23	1.79	0.47
6:C:2350:LYS:NZ	6:C:2377:ARG:HB3	2.29	0.47
6:C:2510:LEU:HD13	6:C:2522:ARG:NH1	2.29	0.47
6:C:2526:SER:HA	6:C:2530:ARG:CB	2.45	0.47
6:C:3037:GLN:HG2	6:C:3040:TYR:CE2	2.48	0.47
6:C:3042:PRO:O	6:C:3045:ILE:HG12	2.14	0.47
6:C:3520:GLU:O	6:C:3523:ASP:HB2	2.14	0.47
6:C:3588:TRP:O	6:C:3592:VAL:HB	2.14	0.47
6:C:3908:HIS:O	6:C:3911:ILE:HB	2.15	0.47
1:A:72:ILE:HD11	1:A:495:LEU:HD21	1.97	0.47
1:A:174:ASN:HD21	1:A:177:GLY:N	2.12	0.47
1:A:474:ARG:O	1:A:478:PHE:HE2	1.96	0.47
2:B:58:LEU:HB3	2:B:61:THR:HG21	1.96	0.47
2:B:138:LEU:HD13	2:B:204:GLY:C	2.33	0.47
2:B:197:ILE:HD13	2:B:202:LYS:HE2	1.97	0.47
2:B:242:ARG:NH1	2:B:243:HIS:O	2.48	0.47
2:B:268:LEU:HD13	2:B:360:GLN:CA	2.45	0.47
2:B:527:GLN:O	2:B:530:LEU:HB2	2.14	0.47
6:C:336:ASN:HB3	6:C:340:TYR:HE2	1.80	0.47
6:C:395:MET:HB2	6:C:413:PHE:CZ	2.50	0.47
6:C:441:MET:HB2	6:C:1814:PHE:CD1	2.49	0.47
6:C:668:LYS:HD2	6:C:668:LYS:N	2.29	0.47
6:C:1139:GLU:CD	6:C:1141:LYS:HZ2	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1139:GLU:HA	6:C:1146:ASN:HD21	1.79	0.47
6:C:1173:LEU:HA	6:C:1177:GLY:H	1.79	0.47
6:C:1280:GLN:CD	6:C:1357:LYS:HE2	2.35	0.47
6:C:2019:SER:HA	6:C:2045:PHE:CZ	2.49	0.47
6:C:2192:THR:HA	6:C:2195:SER:OG	2.13	0.47
6:C:2386:LEU:O	6:C:2389:PHE:HB2	2.14	0.47
6:C:2417:SER:HB2	6:C:2418:LYS:HD2	1.96	0.47
6:C:2517:LEU:HA	6:C:2520:ILE:HG12	1.96	0.47
6:C:3391:ALA:O	6:C:3395:GLU:HG3	2.15	0.47
6:C:3951:GLN:OE1	6:C:4064:LEU:HB3	2.14	0.47
1:A:132:GLN:HB3	1:A:137:HIS:CB	2.45	0.47
1:A:182:LYS:HG2	1:A:185:ARG:HH22	1.79	0.47
1:A:311:LEU:C	1:A:312:LEU:HD12	2.34	0.47
4:D:-2:DT:C2	5:E:39:DA:H2	2.31	0.47
6:C:47:SER:O	6:C:52:ALA:N	2.47	0.47
6:C:280:SER:C	6:C:282:PHE:HD2	2.17	0.47
6:C:537:SER:OG	6:C:538:ASP:OD1	2.33	0.47
6:C:560:LEU:HD21	6:C:655:LEU:HD23	1.96	0.47
6:C:620:PHE:CA	6:C:623:PHE:HB3	2.44	0.47
6:C:888:ARG:HH12	6:C:3892:THR:HA	1.80	0.47
6:C:959:TYR:O	6:C:962:TYR:HB3	2.15	0.47
6:C:1113:LEU:HG	6:C:1163:LEU:HB2	1.96	0.47
6:C:1132:ASP:O	6:C:1171:TRP:HZ2	1.97	0.47
6:C:1342:MET:HA	6:C:1345:THR:CB	2.43	0.47
6:C:1356:TRP:CH2	6:C:1411:TYR:HD2	2.32	0.47
6:C:1387:GLY:HA2	6:C:1392:MET:H	1.79	0.47
6:C:1435:ASN:HD21	6:C:1485:SER:HB2	1.79	0.47
6:C:1464:LEU:HD12	6:C:1465:HIS:N	2.29	0.47
6:C:1936:ARG:O	6:C:1939:LEU:N	2.47	0.47
6:C:2034:SER:HA	6:C:2038:GLU:OE2	2.15	0.47
6:C:2068:ARG:HH21	6:C:2128:PHE:HA	1.79	0.47
6:C:2222:HIS:O	6:C:2226:PRO:HD3	2.15	0.47
6:C:2346:ALA:O	6:C:2347:LYS:C	2.53	0.47
6:C:2472:GLN:HA	6:C:2475:ASN:HB3	1.97	0.47
6:C:2501:LEU:HA	6:C:2504:ASP:OD2	2.14	0.47
6:C:2808:LEU:HD12	6:C:2809:PHE:HE1	1.79	0.47
6:C:2809:PHE:O	6:C:2812:LEU:HB2	2.14	0.47
6:C:3172:LYS:HE2	6:C:3172:LYS:HB2	1.73	0.47
6:C:3309:GLU:HA	6:C:3312:VAL:CG1	2.42	0.47
6:C:3335:ARG:HG2	6:C:3341:LEU:HG	1.96	0.47
6:C:3505:LEU:HA	6:C:3509:ASP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3924:HIS:O	6:C:4124:TRP:HA	2.15	0.47
6:C:4029:GLN:O	6:C:4033:VAL:HG22	2.15	0.47
6:C:4073:ALA:HA	6:C:4119:ARG:HH22	1.80	0.47
1:A:58:THR:HG23	1:A:61:ASP:N	2.25	0.47
1:A:76:ILE:HG12	1:A:487:PHE:CD1	2.50	0.47
1:A:189:LYS:O	1:A:189:LYS:HG2	2.14	0.47
1:A:311:LEU:HD21	2:B:288:ASP:HB3	1.96	0.47
1:A:455:THR:OG1	1:A:457:GLU:HG2	2.15	0.47
1:A:465:ILE:HG13	1:A:525:PHE:HZ	1.75	0.47
1:A:488:ARG:O	1:A:491:GLU:HB2	2.14	0.47
2:B:154:LEU:HB3	2:B:159:ILE:HB	1.95	0.47
2:B:314:PHE:HB2	2:B:321:VAL:CB	2.43	0.47
4:D:-6:DT:C2	4:D:-5:DT:C2	3.02	0.47
4:D:4:DA:C2	5:E:33:DA:C2	3.03	0.47
4:D:4:DA:C4	4:D:5:DT:C5	3.03	0.47
6:C:82:ARG:NH2	6:C:117:LYS:HE2	2.29	0.47
6:C:127:ALA:HA	6:C:130:LEU:HB2	1.96	0.47
6:C:254:LYS:HG3	6:C:256:ILE:HG13	1.95	0.47
6:C:263:LYS:HA	6:C:266:ALA:HB3	1.96	0.47
6:C:342:MET:SD	6:C:371:GLY:HA2	2.55	0.47
6:C:352:VAL:HA	6:C:355:ASN:OD1	2.14	0.47
6:C:444:ASP:OD1	6:C:533:HIS:ND1	2.42	0.47
6:C:574:LYS:O	6:C:577:GLU:N	2.48	0.47
6:C:741:ILE:O	6:C:742:GLU:C	2.53	0.47
6:C:939:MET:HG2	6:C:2783:ILE:HG22	1.97	0.47
6:C:984:TYR:O	6:C:988:VAL:HG13	2.14	0.47
6:C:1019:ASP:N	6:C:1019:ASP:OD1	2.47	0.47
6:C:1170:LYS:HA	6:C:1267:TYR:CE1	2.49	0.47
6:C:1701:SER:C	6:C:1705:GLY:HA3	2.35	0.47
6:C:1745:LYS:O	6:C:1749:ALA:HB3	2.13	0.47
6:C:1884:LEU:O	6:C:1887:ASP:HB2	2.14	0.47
6:C:1974:ASN:ND2	6:C:1984:LEU:HD13	2.15	0.47
6:C:2183:HIS:HE1	6:C:2237:ILE:HB	1.79	0.47
6:C:2186:VAL:HA	6:C:2189:ILE:CB	2.40	0.47
6:C:2371:PHE:CE2	6:C:2378:PHE:HE2	2.20	0.47
6:C:2427:ARG:CZ	6:C:2432:GLN:HB2	2.44	0.47
6:C:2481:HIS:HA	6:C:2484:TYR:HD2	1.80	0.47
6:C:2806:LYS:HG2	6:C:2809:PHE:CE2	2.50	0.47
6:C:2820:MET:HB3	6:C:2829:LYS:HG3	1.96	0.47
6:C:2869:LEU:HD11	6:C:2892:LEU:HD12	1.96	0.47
6:C:3094:ASP:OD1	6:C:3145:ILE:HG21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3167:ARG:NH2	6:C:3238:MET:HB2	2.30	0.47
6:C:3236:PHE:O	6:C:3240:MET:HG2	2.14	0.47
6:C:3500:SER:HB2	6:C:3762:GLN:CD	2.33	0.47
6:C:3531:TYR:CZ	6:C:3534:ILE:HB	2.50	0.47
6:C:3575:LEU:HG	6:C:3687:MET:SD	2.55	0.47
6:C:3593:ARG:HG3	6:C:3660:ASN:HD22	1.79	0.47
6:C:3760:GLN:HG2	6:C:3761:ASP:N	2.30	0.47
6:C:3763:ARG:HH12	6:C:4009:PRO:HG3	1.79	0.47
6:C:3844:THR:HB	6:C:3849:LYS:CD	2.44	0.47
6:C:3964:THR:O	6:C:3967:PHE:HB2	2.15	0.47
6:C:4065:LEU:HB2	6:C:4074:PHE:CD1	2.49	0.47
1:A:314:SER:OG	1:A:315:ASP:OD1	2.30	0.47
1:A:413:LEU:HA	1:A:433:GLN:O	2.15	0.47
1:A:419:GLU:OE1	1:A:427:VAL:HG22	2.15	0.47
2:B:155:LYS:NZ	2:B:215:LEU:HA	2.30	0.47
2:B:527:GLN:HA	2:B:530:LEU:HD12	1.96	0.47
6:C:80:GLU:O	6:C:83:GLU:HB2	2.15	0.47
6:C:172:GLU:O	6:C:176:GLU:N	2.48	0.47
6:C:481:THR:HA	6:C:484:HIS:CG	2.49	0.47
6:C:969:LEU:HD21	6:C:984:TYR:CD2	2.49	0.47
6:C:995:PHE:CB	6:C:1002:GLU:HB2	2.45	0.47
6:C:1217:VAL:HA	6:C:1271:ILE:CG2	2.45	0.47
6:C:1220:LEU:CD1	6:C:1271:ILE:HG21	2.45	0.47
6:C:1492:ALA:HB1	6:C:1496:GLU:HB3	1.97	0.47
6:C:1860:GLU:O	6:C:1863:PHE:HB3	2.15	0.47
6:C:2375:ALA:HA	6:C:2378:PHE:CE2	2.50	0.47
6:C:2420:PHE:HZ	6:C:2424:MET:SD	2.38	0.47
6:C:2427:ARG:HH12	6:C:2433:LYS:HB2	1.80	0.47
6:C:2839:ASP:HA	6:C:2842:ARG:NH1	2.30	0.47
6:C:2914:ALA:O	6:C:2917:PRO:HD2	2.15	0.47
6:C:3021:SER:O	6:C:3024:PRO:HD3	2.15	0.47
6:C:3046:ARG:HD2	6:C:3049:LEU:HD12	1.96	0.47
6:C:3231:ILE:HG13	6:C:3235:LYS:NZ	2.30	0.47
6:C:3232:ARG:HA	6:C:3235:LYS:HD2	1.97	0.47
6:C:3262:LEU:HG	6:C:3271:ASP:OD1	2.15	0.47
6:C:3375:ALA:O	6:C:3378:TYR:HB3	2.14	0.47
6:C:3591:ASP:OD2	6:C:3799:ARG:NH2	2.40	0.47
6:C:3770:VAL:O	6:C:3774:ILE:HD12	2.14	0.47
6:C:3815:LEU:HB3	6:C:3886:ALA:HB1	1.96	0.47
1:A:95:ASN:OD1	1:A:97:VAL:N	2.48	0.47
2:B:115:MET:SD	2:B:150:ILE:HG12	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:16:DG:N1	5:E:19:DC:H2''	2.30	0.47
6:C:260:ILE:HD13	6:C:260:ILE:H	1.80	0.47
6:C:436:GLU:O	6:C:440:VAL:HG13	2.15	0.47
6:C:700:LYS:HD3	6:C:701:TYR:CZ	2.50	0.47
6:C:710:PHE:HB3	6:C:714:VAL:CG2	2.45	0.47
6:C:727:ALA:HB1	6:C:731:THR:CG2	2.45	0.47
6:C:929:ALA:O	6:C:932:GLU:HB2	2.15	0.47
6:C:1379:PRO:CA	6:C:1384:PHE:HB2	2.42	0.47
6:C:1963:GLN:HE22	6:C:1966:LEU:HD12	1.79	0.47
6:C:2292:CYS:O	6:C:2299:TYR:HB2	2.15	0.47
6:C:2362:VAL:HA	6:C:2365:ASN:OD1	2.14	0.47
6:C:2400:VAL:O	6:C:2401:VAL:C	2.53	0.47
6:C:2525:TRP:CH2	6:C:2529:THR:HG21	2.50	0.47
6:C:2812:LEU:O	6:C:2816:ILE:HG22	2.15	0.47
6:C:2838:GLN:O	6:C:2841:ASN:N	2.43	0.47
6:C:2930:TYR:O	6:C:2933:ILE:HB	2.15	0.47
6:C:2933:ILE:HA	6:C:3979:LEU:HD22	1.97	0.47
6:C:3019:ILE:HD12	6:C:3040:TYR:CZ	2.49	0.47
6:C:3167:ARG:NE	6:C:3238:MET:HA	2.30	0.47
6:C:3508:LYS:HE2	6:C:4010:SER:H	1.80	0.47
6:C:3604:LYS:HA	6:C:3607:GLU:HB3	1.96	0.47
6:C:3980:MET:O	6:C:3984:MET:HG2	2.15	0.47
6:C:4071:ALA:HA	6:C:4075:ARG:HB2	1.97	0.47
1:A:166:ILE:CG2	1:A:200:LEU:HD12	2.42	0.47
1:A:367:PHE:HE2	1:A:369:TYR:HB2	1.79	0.47
1:A:481:PRO:O	1:A:484:GLN:HB3	2.14	0.47
2:B:400:ARG:HB3	4:D:10:DG:H4'	1.97	0.47
6:C:196:LEU:O	6:C:199:ALA:N	2.28	0.47
6:C:291:VAL:HA	6:C:294:PHE:CB	2.45	0.47
6:C:337:LYS:HA	6:C:340:TYR:CG	2.49	0.47
6:C:471:LYS:HD2	6:C:474:VAL:HG23	1.95	0.47
6:C:542:ASP:OD1	6:C:542:ASP:N	2.48	0.47
6:C:757:LYS:O	6:C:761:SER:N	2.43	0.47
6:C:887:ASP:HB3	6:C:3889:ARG:NH2	2.27	0.47
6:C:965:THR:O	6:C:968:VAL:N	2.33	0.47
6:C:996:THR:OG1	6:C:1038:LYS:HG2	2.14	0.47
6:C:1267:TYR:HA	6:C:1270:PHE:CD2	2.50	0.47
6:C:1298:LEU:HA	6:C:1301:ILE:HG12	1.97	0.47
6:C:1504:ASP:O	6:C:1507:CYS:HB3	2.15	0.47
6:C:1642:LYS:O	6:C:1645:VAL:N	2.48	0.47
6:C:2243:GLU:C	6:C:2246:LYS:HZ1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2251:ILE:HG13	6:C:2253:TYR:CE2	2.50	0.47
6:C:2517:LEU:HA	6:C:2520:ILE:CG1	2.45	0.47
6:C:2851:PHE:HA	6:C:2854:PHE:CD1	2.50	0.47
6:C:3102:TYR:HA	6:C:3105:ASN:ND2	2.30	0.47
6:C:3252:PHE:O	6:C:3255:ALA:HB3	2.15	0.47
6:C:3256:MET:HB2	6:C:3282:ARG:NH2	2.29	0.47
6:C:3329:LEU:CD1	6:C:3388:ALA:HB3	2.45	0.47
6:C:4065:LEU:HD12	6:C:4066:LEU:N	2.29	0.47
1:A:276:LEU:O	2:B:431:ARG:N	2.48	0.46
1:A:487:PHE:HD1	1:A:488:ARG:HH12	1.63	0.46
2:B:221:LEU:HA	2:B:224:ILE:HG13	1.96	0.46
2:B:253:ILE:O	2:B:257:LEU:HB3	2.15	0.46
2:B:399:LYS:CE	4:D:10:DG:H21	2.28	0.46
2:B:476:LEU:O	2:B:477:PHE:HB2	2.15	0.46
4:D:3:DT:C3'	4:D:4:DA:H8	2.22	0.46
5:E:26:DC:H2''	5:E:27:DC:C6	2.49	0.46
5:E:30:DA:C6	5:E:31:DA:C6	3.03	0.46
6:C:432:THR:HB	6:C:433:PRO:HD3	1.96	0.46
6:C:778:ILE:O	6:C:781:ASP:HB3	2.15	0.46
6:C:869:ASN:O	6:C:873:VAL:HB	2.14	0.46
6:C:952:GLY:O	6:C:955:ALA:N	2.47	0.46
6:C:959:TYR:HA	6:C:962:TYR:CB	2.44	0.46
6:C:1283:GLY:HA3	6:C:1286:ALA:HB3	1.97	0.46
6:C:1288:SER:HB3	6:C:1292:LYS:HB2	1.97	0.46
6:C:1296:PHE:HE2	6:C:1361:LYS:HZ2	1.58	0.46
6:C:1400:VAL:HG13	6:C:1404:LYS:HE2	1.97	0.46
6:C:1456:LYS:C	6:C:1460:ARG:HH21	2.18	0.46
6:C:2235:LEU:HD12	6:C:2238:ILE:HB	1.97	0.46
6:C:2255:LEU:O	6:C:2258:GLU:HB2	2.14	0.46
6:C:2319:ALA:O	6:C:2323:LEU:HG	2.15	0.46
6:C:2463:SER:C	6:C:2470:ARG:HH21	2.14	0.46
6:C:2505:VAL:HA	6:C:2508:GLN:OE1	2.15	0.46
6:C:2531:LEU:HD13	6:C:2538:ARG:HD3	1.96	0.46
6:C:2792:THR:HA	6:C:2795:GLN:OE1	2.15	0.46
6:C:3118:ASP:O	6:C:3119:VAL:C	2.53	0.46
6:C:3166:ASN:C	6:C:3169:PRO:HD2	2.35	0.46
6:C:3257:LYS:HG2	6:C:3258:LEU:HD12	1.97	0.46
6:C:3440:GLN:HB3	6:C:3474:ARG:HD3	1.97	0.46
6:C:3447:VAL:HG12	6:C:3465:PHE:CD1	2.50	0.46
6:C:3621:LYS:NZ	6:C:3638:LYS:HB3	2.29	0.46
6:C:3635:THR:OG1	6:C:3636:PHE:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3704:GLN:NE2	6:C:3794:VAL:HG21	2.30	0.46
6:C:3784:ARG:HB2	6:C:3786:LEU:HD11	1.97	0.46
6:C:3913:ILE:HG21	6:C:3991:PHE:HZ	1.80	0.46
6:C:3947:GLY:HA3	6:C:4064:LEU:HD13	1.96	0.46
6:C:4013:TRP:HH2	6:C:4041:ARG:HB2	1.79	0.46
1:A:133:ASP:O	1:A:136:GLY:N	2.49	0.46
1:A:145:GLU:H	1:A:145:GLU:CD	2.15	0.46
1:A:301:ARG:CD	6:C:164:LYS:H	2.29	0.46
1:A:353:LEU:CD2	1:A:395:ALA:HB2	2.45	0.46
1:A:530:TYR:CD1	1:A:532:PRO:HB3	2.50	0.46
2:B:134:ILE:O	2:B:163:PHE:HA	2.15	0.46
2:B:203:GLU:O	2:B:207:ILE:HG12	2.15	0.46
2:B:526:SER:C	2:B:530:LEU:HG	2.35	0.46
4:D:-1:DA:C2	5:E:38:DA:C2	3.04	0.46
4:D:3:DT:N3	4:D:4:DA:C5	2.83	0.46
6:C:90:CYS:HA	6:C:93:LEU:HG	1.98	0.46
6:C:142:ARG:NH2	6:C:183:GLU:OE1	2.44	0.46
6:C:738:HIS:CD2	6:C:741:ILE:HD11	2.50	0.46
6:C:956:PRO:HD2	6:C:957:PRO:HD2	1.97	0.46
6:C:1417:THR:O	6:C:1421:GLU:HG3	2.13	0.46
6:C:1730:PRO:HG3	6:C:1873:TYR:CD1	2.51	0.46
6:C:2207:LYS:N	6:C:2207:LYS:HD2	2.31	0.46
6:C:2555:LEU:O	6:C:2559:THR:HG23	2.15	0.46
6:C:2952:ILE:HG22	6:C:2968:ALA:HB1	1.96	0.46
6:C:3297:VAL:HG13	6:C:3298:LEU:N	2.30	0.46
6:C:3410:ILE:HG13	6:C:3414:MET:SD	2.55	0.46
6:C:3505:LEU:O	6:C:3510:GLN:HG3	2.15	0.46
1:A:70:VAL:O	1:A:74:LYS:HG2	2.16	0.46
1:A:92:LYS:HE2	1:A:103:TYR:HE1	1.79	0.46
1:A:115:ARG:O	1:A:119:LEU:HG	2.15	0.46
1:A:166:ILE:N	1:A:199:PHE:O	2.38	0.46
1:A:358:LYS:HA	1:A:360:HIS:CE1	2.51	0.46
1:A:390:LEU:HD21	1:A:415:PRO:O	2.15	0.46
1:A:406:ILE:HA	1:A:406:ILE:HD12	1.77	0.46
2:B:390:VAL:HG12	2:B:409:PHE:CD1	2.50	0.46
4:D:-1:DA:C5	4:D:0:DT:C4	3.03	0.46
5:E:36:DA:C4	5:E:37:DT:O4	2.68	0.46
5:E:44:DA:C6	5:E:45:DG:C6	3.04	0.46
6:C:437:HIS:HB3	6:C:1812:LEU:HD22	1.97	0.46
6:C:547:ASP:O	6:C:550:PHE:HB3	2.15	0.46
6:C:550:PHE:HD2	6:C:551:PHE:CD2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:620:PHE:C	6:C:623:PHE:H	2.11	0.46
6:C:775:GLU:HA	6:C:778:ILE:HD12	1.97	0.46
6:C:1123:THR:O	6:C:1126:GLN:HB3	2.15	0.46
6:C:1522:GLY:HA2	6:C:1525:CYS:SG	2.56	0.46
6:C:1598:ASN:OD1	6:C:1686:LEU:HD13	2.15	0.46
6:C:1867:ILE:O	6:C:1870:LYS:HB3	2.16	0.46
6:C:1879:VAL:O	6:C:1883:ARG:HB2	2.15	0.46
6:C:2346:ALA:HB1	6:C:2350:LYS:NZ	2.31	0.46
6:C:2516:GLY:O	6:C:2519:LEU:N	2.49	0.46
6:C:2809:PHE:N	6:C:2809:PHE:HD1	2.12	0.46
6:C:2901:LEU:HD21	6:C:2910:VAL:HG11	1.98	0.46
6:C:2944:THR:OG1	6:C:2986:PRO:HB2	2.14	0.46
6:C:3122:HIS:CG	6:C:3123:GLN:H	2.32	0.46
6:C:3124:SER:HB3	6:C:3125:ARG:CZ	2.45	0.46
6:C:3256:MET:HB2	6:C:3282:ARG:CZ	2.44	0.46
6:C:3462:ARG:HD2	6:C:3498:TRP:CE3	2.50	0.46
6:C:3763:ARG:HD3	6:C:4005:PHE:CD1	2.50	0.46
6:C:4085:LYS:HA	6:C:4088:ASN:HB2	1.97	0.46
1:A:184:SER:O	1:A:188:THR:CB	2.64	0.46
1:A:465:ILE:HG21	1:A:525:PHE:HE2	1.80	0.46
2:B:65:ASP:HB3	2:B:79:VAL:H	1.79	0.46
2:B:209:LYS:HG2	2:B:221:LEU:HD22	1.97	0.46
2:B:252:THR:HA	2:B:258:SER:HA	1.97	0.46
2:B:269:GLN:HG3	2:B:270:GLU:O	2.15	0.46
4:D:1:DG:H2'	4:D:2:DG:C1'	2.46	0.46
4:D:2:DG:H3'	4:D:3:DT:H71	1.97	0.46
4:D:7:DA:C2	5:E:30:DA:C2	3.03	0.46
6:C:16:GLN:HE22	6:C:62:ASP:HB2	1.80	0.46
6:C:157:TYR:HA	6:C:160:LEU:HG	1.96	0.46
6:C:415:GLN:O	6:C:418:ALA:HB3	2.16	0.46
6:C:492:SER:HA	6:C:493:LYS:HA	1.69	0.46
6:C:1027:ASP:O	6:C:1031:ARG:HG2	2.15	0.46
6:C:1335:CYS:SG	6:C:1383:GLY:N	2.89	0.46
6:C:1548:GLY:O	6:C:1552:HIS:N	2.33	0.46
6:C:1643:MET:O	6:C:1646:LEU:N	2.44	0.46
6:C:1643:MET:C	6:C:1646:LEU:H	2.17	0.46
6:C:1900:PHE:HA	6:C:1903:SER:HB2	1.98	0.46
6:C:2129:LEU:HD23	6:C:2140:LEU:HD22	1.97	0.46
6:C:2417:SER:C	6:C:2418:LYS:HD2	2.36	0.46
6:C:2482:ASP:OD2	6:C:2525:TRP:HH2	1.97	0.46
6:C:2832:ILE:O	6:C:2836:LEU:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2871:LEU:O	6:C:2873:PRO:HD3	2.15	0.46
6:C:3039:THR:O	6:C:3042:PRO:HD2	2.15	0.46
6:C:3767:LEU:HD12	6:C:3770:VAL:HB	1.97	0.46
1:A:239:LEU:O	1:A:243:LEU:HG	2.15	0.46
1:A:276:LEU:HG	2:B:429:ASP:O	2.15	0.46
2:B:162:GLN:HE22	2:B:236:VAL:HA	1.81	0.46
6:C:66:LEU:HD11	6:C:70:ARG:HB2	1.97	0.46
6:C:321:LYS:HE3	6:C:325:ASN:HD21	1.80	0.46
6:C:420:VAL:O	6:C:423:TYR:HB3	2.16	0.46
6:C:465:PHE:HA	6:C:468:LEU:HD12	1.97	0.46
6:C:755:ALA:O	6:C:758:LEU:HB3	2.16	0.46
6:C:766:ALA:O	6:C:770:LEU:HD13	2.15	0.46
6:C:938:VAL:N	6:C:962:TYR:OH	2.49	0.46
6:C:1032:CYS:C	6:C:1035:GLU:HB3	2.30	0.46
6:C:1053:PRO:O	6:C:1058:SER:HB2	2.15	0.46
6:C:1325:GLN:O	6:C:1328:GLU:HB3	2.16	0.46
6:C:1420:ARG:HD2	6:C:1420:ARG:HA	1.47	0.46
6:C:1556:GLY:O	6:C:1559:PHE:N	2.48	0.46
6:C:1750:LEU:HA	6:C:1753:SER:OG	2.15	0.46
6:C:1758:LEU:CD1	6:C:1761:LEU:HD23	2.42	0.46
6:C:1975:LEU:HB3	6:C:1976:LEU:HD12	1.97	0.46
6:C:2129:LEU:HD13	6:C:2144:LEU:HD21	1.96	0.46
6:C:2132:LYS:O	6:C:2136:PRO:HB2	2.15	0.46
6:C:2142:ILE:HG23	6:C:2145:PHE:CE2	2.50	0.46
6:C:2164:TRP:CZ2	6:C:2245:TRP:HZ3	2.33	0.46
6:C:2221:LYS:HA	6:C:2224:PHE:CE2	2.50	0.46
6:C:2225:HIS:O	6:C:2227:LYS:N	2.48	0.46
6:C:2253:TYR:O	6:C:2256:ILE:N	2.49	0.46
6:C:2324:GLY:HA3	6:C:2370:SER:CB	2.45	0.46
6:C:2351:GLN:O	6:C:2352:HIS:C	2.54	0.46
6:C:2413:PHE:CE1	6:C:2442:MET:HG2	2.51	0.46
6:C:2439:ILE:HG23	6:C:2440:TYR:CE2	2.50	0.46
6:C:2517:LEU:HD12	6:C:2518:GLN:N	2.30	0.46
6:C:2526:SER:OG	6:C:2530:ARG:HD3	2.16	0.46
6:C:2526:SER:CA	6:C:2530:ARG:HB2	2.44	0.46
6:C:2835:LYS:O	6:C:2836:LEU:C	2.52	0.46
6:C:2928:LYS:HA	6:C:2931:ARG:NH2	2.30	0.46
6:C:3083:SER:HB3	6:C:3085:GLU:HB2	1.96	0.46
6:C:3176:MET:CA	6:C:3179:TRP:HB3	2.42	0.46
6:C:3298:LEU:CD2	6:C:3348:LEU:HB3	2.45	0.46
6:C:3440:GLN:HB3	6:C:3474:ARG:CD	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3629:ARG:NH2	6:C:3634:GLN:OE1	2.49	0.46
6:C:3754:GLY:HA2	6:C:3800:LEU:HB2	1.97	0.46
6:C:3773:GLY:O	6:C:3777:GLN:HG3	2.15	0.46
1:A:39:ILE:HB	1:A:166:ILE:HA	1.97	0.46
1:A:141:TYR:OH	1:A:172:GLU:OE2	2.27	0.46
1:A:289:TYR:HE1	1:A:290:ARG:HH21	1.63	0.46
2:B:16:VAL:HG13	2:B:101:GLY:O	2.14	0.46
2:B:65:ASP:N	2:B:78:THR:HA	2.30	0.46
2:B:390:VAL:HA	2:B:409:PHE:HD1	1.81	0.46
2:B:400:ARG:HA	4:D:10:DG:H4'	1.96	0.46
2:B:479:THR:OG1	2:B:480:THR:HG23	2.16	0.46
5:E:47:DT:N3	5:E:48:DT:C4	2.84	0.46
6:C:93:LEU:HD11	6:C:137:THR:CA	2.42	0.46
6:C:1234:GLY:HA2	6:C:1237:ALA:HB2	1.97	0.46
6:C:1441:ALA:O	6:C:1445:ARG:HB2	2.14	0.46
6:C:1555:HIS:O	6:C:1558:TYR:HB2	2.15	0.46
6:C:1658:SER:HB3	6:C:1674:THR:HA	1.97	0.46
6:C:1877:LEU:O	6:C:1916:ILE:HG21	2.14	0.46
6:C:2381:ALA:O	6:C:2384:PHE:N	2.49	0.46
6:C:2395:THR:HG22	6:C:2399:GLU:CD	2.36	0.46
6:C:2398:LEU:HD23	6:C:2399:GLU:HG3	1.97	0.46
6:C:2820:MET:SD	6:C:2829:LYS:HD2	2.56	0.46
6:C:2893:LEU:HD11	6:C:2914:ALA:O	2.15	0.46
6:C:2923:TRP:O	6:C:2926:LEU:HB2	2.16	0.46
6:C:3151:LEU:HA	6:C:3152:SER:HA	1.71	0.46
6:C:3378:TYR:HD2	6:C:3379:GLN:HG3	1.78	0.46
6:C:3501:HIS:HE1	6:C:4004:VAL:HG13	1.81	0.46
6:C:3550:LYS:NZ	6:C:3554:PHE:HE2	2.13	0.46
6:C:3596:LEU:HB2	6:C:3660:ASN:HD21	1.80	0.46
6:C:3643:HIS:HB3	6:C:3669:LYS:NZ	2.30	0.46
6:C:3756:GLU:N	6:C:3799:ARG:O	2.48	0.46
6:C:4018:GLN:HG2	6:C:4022:LYS:HE3	1.98	0.46
1:A:106:GLN:HG3	1:A:115:ARG:HH21	1.81	0.46
1:A:420:LEU:HA	1:A:425:ILE:O	2.16	0.46
2:B:65:ASP:O	2:B:79:VAL:N	2.49	0.46
2:B:460:SER:HB2	2:B:525:LYS:CB	2.42	0.46
6:C:115:TYR:HA	6:C:131:LEU:CD2	2.46	0.46
6:C:632:GLU:HG3	6:C:633:ILE:N	2.31	0.46
6:C:741:ILE:HD12	6:C:745:VAL:HA	1.97	0.46
6:C:989:MET:SD	6:C:1034:ARG:HG2	2.56	0.46
6:C:990:GLN:HB3	6:C:2776:ARG:HH11	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1141:LYS:HE2	6:C:1178:ARG:CZ	2.46	0.46
6:C:1232:PRO:CB	6:C:1291:LEU:HB3	2.40	0.46
6:C:1644:ALA:O	6:C:1648:LEU:HB3	2.15	0.46
6:C:1689:LYS:O	6:C:1693:VAL:HG23	2.15	0.46
6:C:2072:ARG:O	6:C:2076:VAL:N	2.49	0.46
6:C:2077:HIS:HE2	6:C:2087:GLU:CD	2.17	0.46
6:C:2242:VAL:CA	6:C:2245:TRP:CD1	2.95	0.46
6:C:2254:ARG:HH21	6:C:2255:LEU:HD11	1.80	0.46
6:C:2378:PHE:O	6:C:2381:ALA:HB3	2.15	0.46
6:C:2439:ILE:HG22	6:C:2439:ILE:H	1.51	0.46
6:C:3099:ALA:O	6:C:3103:ILE:HG22	2.16	0.46
6:C:3126:LEU:HA	6:C:3129:LEU:HD12	1.98	0.46
6:C:3176:MET:HA	6:C:3179:TRP:CB	2.44	0.46
6:C:3381:ALA:O	6:C:3384:HIS:N	2.49	0.46
6:C:3780:ALA:HB1	6:C:3784:ARG:NH1	2.27	0.46
1:A:125:GLN:OE1	1:A:125:GLN:N	2.34	0.46
1:A:278:GLN:NE2	4:D:1:DG:H3'	2.31	0.46
1:A:284:PRO:HB2	5:E:32:DT:OP2	2.16	0.46
1:A:362:LEU:HD11	2:B:269:GLN:HB2	1.97	0.46
2:B:53:GLU:HG2	2:B:84:MET:O	2.16	0.46
2:B:87:ASP:O	2:B:90:LEU:HB3	2.16	0.46
2:B:297:LEU:HG	2:B:303:THR:O	2.16	0.46
4:D:6:DT:N3	5:E:31:DA:C2	2.84	0.46
4:D:7:DA:H2'	4:D:8:DT:C6	2.51	0.46
5:E:36:DA:C5	5:E:37:DT:O4	2.69	0.46
6:C:87:LYS:HE2	6:C:133:LYS:HE3	1.98	0.46
6:C:129:ASP:O	6:C:133:LYS:HG2	2.15	0.46
6:C:142:ARG:NH1	6:C:183:GLU:OE1	2.48	0.46
6:C:449:TYR:HD2	6:C:454:GLN:HG2	1.80	0.46
6:C:487:LEU:O	6:C:490:ILE:HB	2.15	0.46
6:C:574:LYS:O	6:C:577:GLU:HG2	2.16	0.46
6:C:644:PRO:HD2	6:C:645:TRP:CD1	2.50	0.46
6:C:923:ASP:HA	6:C:926:THR:OG1	2.16	0.46
6:C:1402:LEU:O	6:C:1406:LEU:HG	2.16	0.46
6:C:1465:HIS:O	6:C:1468:LEU:N	2.49	0.46
6:C:1762:MET:HG3	6:C:1864:ASP:HB2	1.98	0.46
6:C:1879:VAL:HA	6:C:1920:TYR:CE1	2.50	0.46
6:C:2070:GLU:CD	6:C:2075:THR:HG21	2.36	0.46
6:C:2152:ASN:CB	6:C:2153:THR:HA	2.40	0.46
6:C:2245:TRP:HB3	6:C:2249:LEU:CD1	2.46	0.46
6:C:2382:VAL:HA	6:C:2385:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2444:PRO:HG2	6:C:2445:LYS:HE3	1.97	0.46
6:C:2873:PRO:HD2	6:C:2876:VAL:HG11	1.97	0.46
6:C:2911:ARG:HB2	6:C:2914:ALA:CB	2.46	0.46
6:C:3067:LYS:HA	6:C:3070:HIS:HD2	1.81	0.46
6:C:3326:GLN:HG2	6:C:3389:VAL:HG13	1.97	0.46
6:C:3400:SER:HB3	6:C:3409:VAL:HA	1.98	0.46
6:C:3505:LEU:HG	6:C:3510:GLN:NE2	2.30	0.46
6:C:3554:PHE:HB3	6:C:3557:ARG:HH21	1.80	0.46
6:C:3703:GLY:O	6:C:3704:GLN:HB2	2.16	0.46
6:C:3930:VAL:HA	6:C:3936:GLY:C	2.36	0.46
6:C:4068:HIS:HD2	6:C:4074:PHE:CZ	2.33	0.46
6:C:4073:ALA:CA	6:C:4119:ARG:HH22	2.29	0.46
6:C:4127:TRP:CH2	6:C:4128:MET:HB2	2.51	0.46
1:A:80:ARG:C	1:A:110:ASN:HD21	2.19	0.46
1:A:88:TYR:CD1	1:A:89:GLY:N	2.84	0.46
1:A:142:SER:OG	1:A:182:LYS:NZ	2.44	0.46
1:A:369:TYR:OH	1:A:372:GLU:OE1	2.31	0.46
1:A:386:LEU:HD21	1:A:431:GLY:O	2.15	0.46
2:B:40:MET:O	2:B:43:GLN:HB2	2.16	0.46
2:B:111:LEU:HB3	2:B:150:ILE:HG21	1.98	0.46
2:B:213:ILE:HG13	2:B:218:GLU:HB2	1.98	0.46
2:B:353:ARG:HA	2:B:356:PHE:CD2	2.50	0.46
2:B:464:ALA:HB1	2:B:473:LEU:HB3	1.98	0.46
4:D:7:DA:C6	5:E:28:DA:N6	2.83	0.46
6:C:202:GLY:O	6:C:205:LYS:HB3	2.16	0.46
6:C:353:ASP:CA	6:C:1858:LEU:HD12	2.39	0.46
6:C:548:GLU:O	6:C:552:SER:OG	2.27	0.46
6:C:734:LEU:HA	6:C:734:LEU:HD23	1.53	0.46
6:C:1884:LEU:HD23	6:C:1887:ASP:OD2	2.15	0.46
6:C:2043:PHE:N	6:C:2043:PHE:CD1	2.82	0.46
6:C:2210:VAL:HG13	6:C:2214:ARG:NH2	2.31	0.46
6:C:2224:PHE:HA	6:C:2272:VAL:HG11	1.98	0.46
6:C:2260:PHE:CE1	6:C:2270:ASN:HA	2.51	0.46
6:C:2285:LEU:HD21	6:C:2332:GLU:HB2	1.97	0.46
6:C:2324:GLY:HA2	6:C:2371:PHE:HA	1.98	0.46
6:C:2348:GLN:O	6:C:2352:HIS:CD2	2.69	0.46
6:C:2457:PRO:HA	6:C:2460:GLU:CD	2.36	0.46
6:C:2457:PRO:O	6:C:2460:GLU:N	2.49	0.46
6:C:2562:LEU:HD23	6:C:2562:LEU:HA	1.69	0.46
6:C:2575:PRO:CA	6:C:2789:SER:HB3	2.43	0.46
6:C:2844:LEU:C	6:C:2846:THR:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2954:GLN:O	6:C:2958:LEU:HG	2.16	0.46
6:C:3432:SER:HB2	6:C:3435:ASP:HB2	1.98	0.46
6:C:3907:SER:O	6:C:3908:HIS:C	2.54	0.46
6:C:3932:MET:HA	6:C:3935:GLY:HA2	1.98	0.46
1:A:93:ASP:OD1	1:A:102:ILE:HB	2.15	0.46
1:A:130:ARG:HG3	1:A:134:MET:HE1	1.98	0.46
1:A:264:ASN:CG	1:A:266:ASP:H	2.18	0.46
1:A:285:PRO:HA	2:B:314:PHE:CE1	2.50	0.46
1:A:340:PHE:CD2	1:A:408:PRO:HD2	2.51	0.46
1:A:363:ARG:HD2	2:B:269:GLN:HE21	1.81	0.46
4:D:4:DA:N3	4:D:5:DT:C6	2.84	0.46
4:D:10:DG:C6	5:E:26:DC:N3	2.83	0.46
6:C:224:LEU:O	6:C:227:LEU:HB3	2.16	0.46
6:C:313:LEU:H	6:C:313:LEU:HG	1.27	0.46
6:C:359:LEU:HD12	6:C:408:TYR:CE1	2.51	0.46
6:C:486:GLY:O	6:C:490:ILE:HG13	2.16	0.46
6:C:567:GLU:HG3	6:C:570:LYS:HE3	1.98	0.46
6:C:657:SER:HB2	6:C:734:LEU:HD21	1.97	0.46
6:C:772:ALA:O	6:C:773:LEU:C	2.54	0.46
6:C:916:GLU:CB	6:C:930:ALA:HB2	2.46	0.46
6:C:1141:LYS:HE3	6:C:1179:PRO:CB	2.46	0.46
6:C:1248:PHE:HA	6:C:1251:GLN:CD	2.37	0.46
6:C:1890:HIS:CD2	6:C:1937:ARG:HA	2.51	0.46
6:C:2164:TRP:CZ3	6:C:2212:ALA:HB2	2.52	0.46
6:C:2452:ARG:HG3	6:C:2453:GLU:N	2.30	0.46
6:C:2469:CYS:SG	6:C:2470:ARG:N	2.88	0.46
6:C:3502:MET:SD	6:C:3506:LEU:HB2	2.56	0.46
6:C:3595:GLU:HA	6:C:3598:LYS:NZ	2.31	0.46
6:C:3877:LYS:HZ2	6:C:3965:ARG:HG2	1.81	0.46
6:C:4002:MET:HA	6:C:4005:PHE:CB	2.44	0.46
6:C:4005:PHE:CD2	6:C:4006:VAL:N	2.85	0.46
1:A:74:LYS:HD3	1:A:77:SER:HG	1.81	0.45
1:A:204:HIS:HA	1:A:211:PHE:CE2	2.51	0.45
1:A:340:PHE:CE2	2:B:485:PRO:HB3	2.48	0.45
1:A:353:LEU:HD21	1:A:415:PRO:HD2	1.98	0.45
2:B:213:ILE:HA	2:B:217:GLY:C	2.37	0.45
2:B:521:GLU:OE1	2:B:521:GLU:N	2.37	0.45
4:D:1:DG:C2	5:E:36:DA:N1	2.84	0.45
6:C:17:GLU:HG2	6:C:65:LEU:CD1	2.26	0.45
6:C:138:PHE:HE2	6:C:180:LEU:HB3	1.81	0.45
6:C:300:TRP:CE3	6:C:301:CYS:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:487:LEU:HD21	6:C:620:PHE:HZ	1.80	0.45
6:C:714:VAL:O	6:C:717:LYS:HB3	2.16	0.45
6:C:885:ALA:O	6:C:888:ARG:N	2.48	0.45
6:C:990:GLN:HB3	6:C:2776:ARG:NH1	2.31	0.45
6:C:1029:CYS:HA	6:C:1032:CYS:CB	2.43	0.45
6:C:1072:ALA:HB1	6:C:1074:LYS:CG	2.43	0.45
6:C:1086:TYR:O	6:C:1088:GLU:N	2.49	0.45
6:C:1356:TRP:HA	6:C:1359:LEU:CB	2.43	0.45
6:C:1918:LEU:HD23	6:C:1921:ASP:OD2	2.16	0.45
6:C:2088:LEU:HD11	6:C:2145:PHE:CD2	2.51	0.45
6:C:2135:ASN:O	6:C:2139:PRO:HD2	2.16	0.45
6:C:2311:ARG:NH1	6:C:2312:TYR:OH	2.49	0.45
6:C:2330:VAL:HG22	6:C:2334:LYS:O	2.16	0.45
6:C:2550:ILE:HG23	6:C:2847:THR:HA	1.97	0.45
6:C:2839:ASP:OD1	6:C:2839:ASP:N	2.49	0.45
6:C:3096:VAL:HG23	6:C:3097:ASP:OD1	2.17	0.45
6:C:3677:PRO:HA	6:C:3679:ASN:ND2	2.31	0.45
6:C:3681:LYS:HA	6:C:3684:SER:CB	2.43	0.45
6:C:3717:VAL:HB	6:C:3746:ARG:CZ	2.46	0.45
6:C:3982:SER:HA	6:C:3985:VAL:HG23	1.98	0.45
6:C:4000:ASN:O	6:C:4003:ASP:HB3	2.15	0.45
6:C:4004:VAL:HA	6:C:4007:LYS:HB3	1.98	0.45
6:C:4005:PHE:O	6:C:4009:PRO:HD3	2.16	0.45
6:C:4013:TRP:CD2	6:C:4040:PRO:HG2	2.51	0.45
1:A:71:TYR:OH	1:A:111:PRO:HA	2.17	0.45
1:A:107:GLU:OE2	1:A:156:ASP:HB3	2.16	0.45
1:A:340:PHE:HE2	2:B:485:PRO:CB	2.27	0.45
1:A:383:SER:HG	1:A:384:ALA:H	1.63	0.45
1:A:397:LEU:HD12	1:A:411:VAL:O	2.16	0.45
2:B:215:LEU:HD22	2:B:216:GLU:CD	2.36	0.45
6:C:634:LEU:HD21	6:C:667:TYR:CZ	2.52	0.45
6:C:792:ILE:O	6:C:796:LEU:HG	2.16	0.45
6:C:1011:GLU:O	6:C:1014:LEU:N	2.28	0.45
6:C:1213:LYS:HB3	6:C:1214:GLU:OE1	2.17	0.45
6:C:2207:LYS:C	6:C:2209:GLU:N	2.68	0.45
6:C:2786:LYS:HG2	6:C:2787:HIS:ND1	2.30	0.45
6:C:2816:ILE:HG23	6:C:2817:LEU:N	2.31	0.45
6:C:2948:GLY:HA2	6:C:2951:GLN:OE1	2.15	0.45
6:C:3028:ASN:C	6:C:3030:ILE:N	2.69	0.45
6:C:3467:ARG:HA	6:C:3470:GLN:HB2	1.98	0.45
6:C:3614:TYR:O	6:C:3625:LEU:HD21	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3681:LYS:NZ	6:C:3725:ARG:HA	2.29	0.45
6:C:3868:VAL:HG11	6:C:4117:LEU:HB2	1.98	0.45
1:A:99:PHE:O	1:A:102:ILE:HD12	2.16	0.45
1:A:106:GLN:HE21	1:A:115:ARG:CZ	2.28	0.45
1:A:329:LEU:HD11	2:B:497:ARG:HG3	1.98	0.45
1:A:336:GLU:HA	1:A:339:ARG:NH1	2.32	0.45
6:C:242:PRO:O	6:C:246:ARG:CB	2.64	0.45
6:C:282:PHE:HE2	6:C:319:PHE:CE1	2.34	0.45
6:C:461:ILE:HG22	6:C:465:PHE:CE2	2.50	0.45
6:C:916:GLU:HB3	6:C:930:ALA:HB2	1.96	0.45
6:C:1762:MET:CG	6:C:1864:ASP:HB2	2.46	0.45
6:C:2159:PRO:HA	6:C:2162:LYS:HD3	1.99	0.45
6:C:2361:ILE:HG23	6:C:2362:VAL:N	2.31	0.45
6:C:2493:ASN:O	6:C:2497:GLU:HG3	2.16	0.45
6:C:2827:SER:O	6:C:2830:ASN:HB2	2.17	0.45
6:C:3098:ARG:O	6:C:3102:TYR:HD2	1.99	0.45
6:C:3109:SER:O	6:C:3112:GLN:HB3	2.16	0.45
6:C:3234:CYS:O	6:C:3237:SER:HB3	2.16	0.45
6:C:3722:PHE:HE1	6:C:3740:ILE:HD13	1.81	0.45
1:A:117:LEU:HA	1:A:120:ASP:OD2	2.16	0.45
1:A:276:LEU:HD11	2:B:430:LEU:HG	1.97	0.45
1:A:351:LYS:HZ1	1:A:355:LEU:HD22	1.82	0.45
2:B:9:ALA:HB2	2:B:127:PHE:CD2	2.52	0.45
2:B:242:ARG:NH1	2:B:243:HIS:HB2	2.31	0.45
2:B:485:PRO:O	2:B:486:ARG:C	2.55	0.45
2:B:490:LEU:O	2:B:494:LEU:HG	2.17	0.45
5:E:41:DA:H8	5:E:41:DA:O5'	1.99	0.45
5:E:44:DA:H2'	5:E:45:DG:O4'	2.16	0.45
6:C:33:GLN:HA	6:C:36:ARG:HB2	1.97	0.45
6:C:37:GLY:O	6:C:41:GLU:N	2.49	0.45
6:C:187:SER:OG	6:C:188:GLU:N	2.49	0.45
6:C:262:LEU:HD21	6:C:306:VAL:HB	1.98	0.45
6:C:414:LEU:HD21	6:C:461:ILE:HA	1.98	0.45
6:C:992:ILE:HA	6:C:995:PHE:CE2	2.51	0.45
6:C:997:ASN:HA	6:C:1042:LYS:CD	2.46	0.45
6:C:1057:LYS:HE3	6:C:1096:VAL:HG22	1.99	0.45
6:C:1656:ASP:OD1	6:C:1717:LEU:HA	2.17	0.45
6:C:1740:VAL:HG13	6:C:1883:ARG:NH2	2.31	0.45
6:C:1761:LEU:HG	6:C:1860:GLU:CD	2.36	0.45
6:C:1946:ASN:ND2	6:C:1994:VAL:HA	2.30	0.45
6:C:2291:GLN:CD	6:C:2294:ILE:HB	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2367:VAL:C	6:C:2369:LYS:H	2.18	0.45
6:C:2433:LYS:HD3	6:C:2461:PHE:CE1	2.52	0.45
6:C:2507:ILE:O	6:C:2510:LEU:N	2.49	0.45
6:C:3025:PRO:CA	6:C:3067:LYS:HD2	2.45	0.45
6:C:3117:ILE:HG13	6:C:3118:ASP:N	2.31	0.45
6:C:3120:LEU:HD13	6:C:3125:ARG:CZ	2.47	0.45
6:C:3159:ARG:HG2	6:C:3161:LEU:N	2.32	0.45
6:C:3172:LYS:HZ3	6:C:3172:LYS:HG3	1.34	0.45
6:C:3317:SER:HA	6:C:3319:ASN:HB3	1.98	0.45
6:C:3359:ILE:C	6:C:3388:ALA:HB2	2.37	0.45
6:C:3448:GLU:CD	6:C:3482:LEU:HD13	2.36	0.45
6:C:3691:LYS:HD2	6:C:3696:ARG:NH1	2.32	0.45
6:C:3975:LYS:C	6:C:3977:THR:N	2.68	0.45
1:A:36:ASP:OD2	1:A:162:SER:HB2	2.17	0.45
1:A:37:SER:OG	1:A:164:LYS:HA	2.17	0.45
1:A:70:VAL:HG13	1:A:74:LYS:NZ	2.31	0.45
1:A:86:VAL:O	1:A:87:PHE:HD1	1.99	0.45
1:A:145:GLU:HG3	1:A:148:TRP:CH2	2.52	0.45
1:A:301:ARG:HG3	6:C:163:LYS:HB3	1.98	0.45
1:A:418:GLU:OE1	2:B:438:LEU:HB2	2.17	0.45
2:B:154:LEU:HD22	2:B:159:ILE:HG13	1.99	0.45
2:B:252:THR:O	2:B:342:VAL:N	2.39	0.45
2:B:532:LYS:HA	2:B:535:THR:OG1	2.16	0.45
4:D:-7:DA:C2	4:D:-6:DT:C2	3.04	0.45
5:E:17:DA:H2'	5:E:18:DG:C8	2.50	0.45
6:C:16:GLN:O	6:C:20:SER:HB3	2.16	0.45
6:C:421:LEU:O	6:C:424:LEU:N	2.46	0.45
6:C:454:GLN:O	6:C:457:CYS:HB2	2.17	0.45
6:C:475:LEU:O	6:C:479:ILE:HG13	2.17	0.45
6:C:665:GLY:H	6:C:740:ILE:HD11	1.82	0.45
6:C:731:THR:C	6:C:734:LEU:H	2.16	0.45
6:C:995:PHE:HB3	6:C:1002:GLU:OE1	2.16	0.45
6:C:997:ASN:HB2	6:C:1038:LYS:CE	2.46	0.45
6:C:1013:ILE:HD13	6:C:1013:ILE:N	2.32	0.45
6:C:1328:GLU:O	6:C:1332:TYR:CB	2.62	0.45
6:C:1603:GLN:HA	6:C:1606:ARG:NH2	2.30	0.45
6:C:1652:ILE:HD13	6:C:1709:GLU:OE2	2.16	0.45
6:C:2236:GLU:HA	6:C:2239:LYS:HB3	1.99	0.45
6:C:2291:GLN:HB3	6:C:2295:GLN:H	1.82	0.45
6:C:2318:ALA:O	6:C:2322:VAL:HG23	2.15	0.45
6:C:2559:THR:O	6:C:2563:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2886:GLN:HE22	6:C:2925:GLU:HG2	1.81	0.45
6:C:2938:VAL:HA	6:C:3975:LYS:HZ2	1.81	0.45
6:C:3064:PHE:HD1	6:C:3067:LYS:HE3	1.81	0.45
6:C:3418:ASP:O	6:C:3422:GLN:HG2	2.17	0.45
6:C:3565:GLY:HA2	6:C:3699:LEU:HD13	1.99	0.45
6:C:3675:LYS:HB2	6:C:3676:PRO:HD3	1.98	0.45
6:C:3710:LYS:HB2	6:C:3714:GLU:OE2	2.17	0.45
6:C:3923:ARG:CZ	6:C:3941:ASP:H	2.28	0.45
1:A:60:PHE:O	1:A:63:SER:HB2	2.17	0.45
1:A:122:PHE:N	1:A:122:PHE:CD1	2.83	0.45
2:B:68:LEU:HB2	2:B:74:TYR:CE2	2.51	0.45
2:B:532:LYS:HE3	2:B:532:LYS:HB2	1.67	0.45
4:D:9:DG:N1	5:E:27:DC:N1	2.61	0.45
6:C:217:LEU:HD23	6:C:220:LEU:HD12	1.98	0.45
6:C:290:TYR:OH	6:C:294:PHE:HD1	1.97	0.45
6:C:353:ASP:HA	6:C:1858:LEU:CD1	2.38	0.45
6:C:549:ALA:O	6:C:552:SER:HB2	2.17	0.45
6:C:557:SER:HA	6:C:616:LYS:HZ2	1.81	0.45
6:C:610:ALA:O	6:C:614:PRO:HD2	2.16	0.45
6:C:726:LEU:O	6:C:730:LEU:HG	2.17	0.45
6:C:857:GLN:HA	6:C:3136:THR:HG21	1.98	0.45
6:C:1483:LEU:HG	6:C:1563:PHE:HE1	1.82	0.45
6:C:1642:LYS:HE2	6:C:1642:LYS:HB2	1.73	0.45
6:C:1648:LEU:O	6:C:1652:ILE:HG13	2.17	0.45
6:C:1747:LEU:HD23	6:C:1747:LEU:HA	1.70	0.45
6:C:2050:GLN:HG2	6:C:2051:SER:H	1.81	0.45
6:C:2316:TYR:CG	6:C:2317:ALA:N	2.81	0.45
6:C:2376:ASP:O	6:C:2379:MET:N	2.49	0.45
6:C:2388:LYS:O	6:C:2391:GLY:CA	2.65	0.45
6:C:2443:MET:HB2	6:C:2444:PRO:HD3	1.98	0.45
6:C:2451:LEU:O	6:C:2455:LEU:HG	2.16	0.45
6:C:2549:LYS:HB2	6:C:2549:LYS:HE3	1.35	0.45
6:C:2557:LEU:H	6:C:2557:LEU:HG	1.51	0.45
6:C:3004:HIS:CE1	6:C:3043:TYR:HA	2.51	0.45
6:C:3247:ARG:NH2	6:C:3277:VAL:HG23	2.31	0.45
6:C:3319:ASN:HA	6:C:3396:ALA:HB1	1.98	0.45
6:C:3464:LYS:NZ	6:C:3468:LEU:HD11	2.31	0.45
6:C:3477:GLU:O	6:C:3477:GLU:HG2	2.15	0.45
6:C:3678:GLY:O	6:C:3680:LEU:HG	2.15	0.45
6:C:3836:PRO:O	6:C:3840:LYS:HG3	2.17	0.45
6:C:3922:ASP:C	6:C:3927:ASN:HD22	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3923:ARG:HH22	6:C:3941:ASP:H	1.65	0.45
6:C:3962:ARG:CZ	6:C:4124:TRP:CD2	2.99	0.45
6:C:3983:ILE:N	6:C:3983:ILE:HD12	2.32	0.45
1:A:43:ASP:HB3	1:A:170:THR:HB	1.98	0.45
1:A:353:LEU:HG	1:A:393:GLU:O	2.17	0.45
1:A:534:TYR:OH	2:B:260:ARG:HG3	2.16	0.45
2:B:7:LYS:HE2	2:B:126:LYS:O	2.15	0.45
2:B:481:LYS:O	2:B:483:PRO:HD3	2.16	0.45
6:C:138:PHE:CD2	6:C:180:LEU:HD13	2.51	0.45
6:C:700:LYS:HZ2	6:C:701:TYR:HE1	1.62	0.45
6:C:856:VAL:HG21	6:C:3110:PHE:CE1	2.51	0.45
6:C:913:ARG:CZ	6:C:930:ALA:HA	2.47	0.45
6:C:985:GLU:HG2	6:C:1031:ARG:NH2	2.31	0.45
6:C:1017:ILE:HA	6:C:1022:ASP:OD1	2.16	0.45
6:C:1108:MET:HA	6:C:1111:LEU:CD2	2.46	0.45
6:C:1262:ALA:O	6:C:1344:PHE:HB2	2.16	0.45
6:C:1280:GLN:HE21	6:C:1284:THR:HG23	1.81	0.45
6:C:1472:SER:O	6:C:1476:HIS:HD2	1.99	0.45
6:C:1730:PRO:N	6:C:1731:PRO:HD2	2.31	0.45
6:C:1944:ALA:HA	6:C:1947:CYS:SG	2.57	0.45
6:C:1946:ASN:HA	6:C:1949:ILE:CG2	2.38	0.45
6:C:2263:LYS:HG3	6:C:2270:ASN:HA	1.99	0.45
6:C:2313:LYS:C	6:C:2316:TYR:HD2	2.19	0.45
6:C:2484:TYR:HB2	6:C:2499:PHE:HD1	1.82	0.45
6:C:2867:ALA:C	6:C:2869:LEU:N	2.69	0.45
6:C:3117:ILE:HG13	6:C:3118:ASP:H	1.81	0.45
6:C:3461:ALA:HB1	6:C:3465:PHE:CZ	2.52	0.45
6:C:3612:ARG:O	6:C:3616:ALA:HB3	2.15	0.45
6:C:4056:PRO:O	6:C:4059:ILE:HB	2.17	0.45
1:A:140:ASP:OD1	1:A:141:TYR:N	2.43	0.45
1:A:512:GLU:O	1:A:516:LYS:HB3	2.16	0.45
2:B:270:GLU:OE2	2:B:273:LYS:NZ	2.33	0.45
2:B:399:LYS:HD2	4:D:10:DG:H21	1.82	0.45
4:D:4:DA:C8	4:D:4:DA:OP2	2.70	0.45
6:C:104:SER:HG	6:C:105:VAL:H	1.63	0.45
6:C:201:LEU:H	6:C:201:LEU:HG	1.59	0.45
6:C:718:MET:HE3	6:C:718:MET:HB2	1.93	0.45
6:C:1066:LEU:O	6:C:1070:PRO:HD3	2.17	0.45
6:C:1113:LEU:HB3	6:C:1163:LEU:HD12	1.99	0.45
6:C:1636:ASP:OD1	6:C:1636:ASP:N	2.49	0.45
6:C:1808:ASP:HA	6:C:1811:ARG:NE	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2114:GLU:HG3	6:C:2116:ASP:N	2.18	0.45
6:C:2361:ILE:O	6:C:2364:LEU:HB2	2.16	0.45
6:C:2571:ASP:H	6:C:2573:PRO:HD2	1.82	0.45
6:C:2801:ASP:N	6:C:2801:ASP:OD1	2.45	0.45
6:C:2836:LEU:HB3	6:C:2840:PHE:CE2	2.52	0.45
6:C:2956:ALA:C	6:C:2959:ALA:H	2.20	0.45
6:C:2965:TYR:CD2	6:C:3002:TYR:CE2	3.05	0.45
6:C:3464:LYS:HZ3	6:C:3468:LEU:HD11	1.82	0.45
6:C:3633:ILE:HA	6:C:3637:GLY:HA3	1.99	0.45
6:C:3789:ARG:CG	6:C:3938:ILE:HB	2.47	0.45
6:C:3883:LEU:HD12	6:C:3966:GLN:O	2.17	0.45
6:C:4121:TRP:CD2	6:C:4122:GLU:N	2.84	0.45
1:A:133:ASP:C	1:A:136:GLY:H	2.20	0.45
1:A:193:LEU:HA	1:A:196:THR:OG1	2.16	0.45
2:B:251:LEU:HD13	2:B:340:PHE:CE2	2.52	0.45
2:B:373:ALA:O	2:B:377:LEU:HB2	2.17	0.45
2:B:409:PHE:O	2:B:420:VAL:HG22	2.17	0.45
2:B:463:LEU:HB3	2:B:476:LEU:O	2.17	0.45
6:C:88:PHE:HA	6:C:91:ILE:HG12	1.99	0.45
6:C:290:TYR:CZ	6:C:294:PHE:HB2	2.52	0.45
6:C:674:VAL:HG12	6:C:743:LEU:HB2	1.99	0.45
6:C:756:PHE:CD1	6:C:773:LEU:HD22	2.52	0.45
6:C:1024:THR:HA	6:C:1027:ASP:OD2	2.17	0.45
6:C:1152:ARG:HA	6:C:1155:ARG:HG3	1.98	0.45
6:C:1238:GLN:OE1	6:C:1297:PHE:HB2	2.16	0.45
6:C:1269:THR:HG23	6:C:1275:THR:HG21	1.99	0.45
6:C:1699:PHE:HB2	6:C:1703:THR:HG23	1.99	0.45
6:C:1863:PHE:CE2	6:C:1867:ILE:HG13	2.52	0.45
6:C:1878:ASP:O	6:C:1881:TYR:HB2	2.16	0.45
6:C:1933:LEU:HD23	6:C:1937:ARG:HE	1.82	0.45
6:C:1952:ILE:CG1	6:C:1953:CYS:H	2.27	0.45
6:C:2093:CYS:O	6:C:2097:LEU:HG	2.16	0.45
6:C:2127:LYS:O	6:C:2130:HIS:CE1	2.70	0.45
6:C:2214:ARG:HA	6:C:2217:ASN:HD22	1.82	0.45
6:C:3056:GLU:HA	6:C:3092:LEU:HD23	1.99	0.45
6:C:3076:ALA:O	6:C:3079:GLU:HB3	2.17	0.45
6:C:3161:LEU:HD13	6:C:3164:TRP:CH2	2.51	0.45
6:C:3319:ASN:ND2	6:C:3408:GLY:HA3	2.14	0.45
6:C:3411:ASP:O	6:C:3415:THR:CB	2.65	0.45
6:C:3865:THR:CG2	6:C:4115:ASN:HB2	2.40	0.45
6:C:3898:LEU:HD22	6:C:3901:ARG:CZ	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:4017:GLU:HB3	6:C:4031:ILE:HD12	1.97	0.45
6:C:4044:ILE:HG23	6:C:4048:LYS:HD3	1.99	0.45
6:C:4061:CYS:O	6:C:4065:LEU:HG	2.16	0.45
1:A:35:ARG:HG3	1:A:80:ARG:NE	2.31	0.45
1:A:470:ARG:HE	2:B:347:LYS:HG3	1.81	0.45
1:A:485:GLN:OE1	2:B:333:TYR:HD2	1.99	0.45
1:A:491:GLU:O	1:A:494:ALA:HB3	2.17	0.45
2:B:65:ASP:HB3	2:B:78:THR:HG23	1.97	0.45
2:B:108:LEU:HA	2:B:111:LEU:HB2	1.99	0.45
2:B:142:PHE:HE2	2:B:200:GLN:NE2	2.11	0.45
2:B:220:GLY:HA2	2:B:223:GLU:HB3	1.98	0.45
2:B:327:ASP:O	2:B:331:MET:CB	2.65	0.45
4:D:8:DT:C2'	4:D:9:DG:C8	2.98	0.45
5:E:34:DC:N3	5:E:35:DC:C4	2.85	0.45
6:C:33:GLN:HA	6:C:36:ARG:HD2	1.98	0.45
6:C:33:GLN:CD	6:C:2427:ARG:HA	2.37	0.45
6:C:79:ARG:NH2	6:C:121:ALA:HB3	2.31	0.45
6:C:202:GLY:O	6:C:206:THR:HG23	2.17	0.45
6:C:237:SER:H	6:C:279:ALA:HB2	1.82	0.45
6:C:299:LYS:HA	6:C:303:HIS:CD2	2.52	0.45
6:C:374:LYS:HG3	6:C:423:TYR:CE1	2.52	0.45
6:C:421:LEU:HD22	6:C:428:PRO:HG3	1.99	0.45
6:C:472:GLY:HA2	6:C:473:PRO:HD2	1.54	0.45
6:C:796:LEU:HB3	6:C:800:LEU:HD12	1.99	0.45
6:C:924:ARG:HG3	6:C:925:GLN:H	1.82	0.45
6:C:1087:ARG:HG3	6:C:1134:LEU:HD21	1.99	0.45
6:C:1330:TYR:C	6:C:1333:SER:HG	2.20	0.45
6:C:1356:TRP:HH2	6:C:1411:TYR:HD2	1.64	0.45
6:C:1674:THR:O	6:C:1677:SER:HB2	2.16	0.45
6:C:1676:ILE:O	6:C:1679:LEU:HB3	2.17	0.45
6:C:2131:GLY:HA3	6:C:2141:ASN:ND2	2.32	0.45
6:C:2196:TRP:CD1	6:C:2199:LEU:HB2	2.52	0.45
6:C:2336:ILE:HG13	6:C:2337:LEU:H	1.80	0.45
6:C:2413:PHE:CE1	6:C:2445:LYS:HG3	2.51	0.45
6:C:2922:ARG:HD2	6:C:2930:TYR:CE1	2.52	0.45
6:C:3342:SER:O	6:C:3374:ILE:HD12	2.17	0.45
6:C:3529:ILE:HG13	6:C:3532:PRO:CD	2.47	0.45
6:C:3629:ARG:CG	6:C:3633:ILE:HB	2.47	0.45
6:C:3649:SER:O	6:C:3652:LEU:HB3	2.17	0.45
6:C:3723:ASP:HB2	6:C:3739:ILE:HG13	1.98	0.45
6:C:3972:LEU:HD23	6:C:3972:LEU:HA	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3998:LEU:HD12	6:C:4001:THR:CB	2.39	0.45
1:A:106:GLN:HE21	1:A:115:ARG:NE	2.14	0.44
1:A:147:LEU:HB2	1:A:189:LYS:HD3	1.98	0.44
1:A:276:LEU:HD21	2:B:430:LEU:HG	2.00	0.44
1:A:317:LYS:HG2	1:A:318:ARG:N	2.30	0.44
1:A:486:HIS:NE2	1:A:490:LEU:HD11	2.32	0.44
4:D:-8:DT:C2	5:E:45:DG:N2	2.85	0.44
6:C:726:LEU:O	6:C:727:ALA:C	2.55	0.44
6:C:785:MET:HA	6:C:788:TYR:CD2	2.46	0.44
6:C:886:TRP:CZ2	6:C:950:GLU:HG2	2.53	0.44
6:C:931:CYS:HA	6:C:934:LEU:HB2	1.99	0.44
6:C:1025:LEU:O	6:C:1028:PHE:HB3	2.17	0.44
6:C:1036:PHE:CD2	6:C:1085:ILE:HG21	2.52	0.44
6:C:1864:ASP:HA	6:C:1867:ILE:HB	1.97	0.44
6:C:2042:GLN:NE2	6:C:2042:GLN:O	2.50	0.44
6:C:2284:ASP:N	6:C:2284:ASP:OD1	2.49	0.44
6:C:2356:MET:HB3	6:C:2360:PHE:CE2	2.52	0.44
6:C:2368:THR:HG23	6:C:2371:PHE:CD2	2.53	0.44
6:C:2424:MET:HG3	6:C:2436:LEU:HD22	1.99	0.44
6:C:2433:LYS:HB2	6:C:2433:LYS:HE2	1.73	0.44
6:C:2898:LEU:HD23	6:C:2901:LEU:HB2	1.98	0.44
6:C:2911:ARG:HD3	6:C:2913:LYS:HE2	1.99	0.44
6:C:2919:ASP:N	6:C:2919:ASP:OD1	2.49	0.44
6:C:3090:TYR:HB3	6:C:3095:ASP:OD1	2.17	0.44
6:C:3163:THR:HG23	6:C:3164:TRP:N	2.32	0.44
6:C:3314:SER:N	6:C:3315:TYR:HB3	2.32	0.44
6:C:3323:PHE:O	6:C:3326:GLN:N	2.50	0.44
6:C:3585:PHE:O	6:C:3588:TRP:HB3	2.17	0.44
6:C:3629:ARG:HG2	6:C:3630:ARG:N	2.31	0.44
6:C:3751:LEU:HG	6:C:3752:VAL:N	2.29	0.44
6:C:3868:VAL:HB	6:C:4114:PRO:HB2	1.97	0.44
1:A:85:VAL:HG23	1:A:106:GLN:H	1.82	0.44
1:A:144:SER:HA	1:A:147:LEU:HG	2.00	0.44
1:A:247:ARG:HB3	1:A:488:ARG:HH21	1.81	0.44
1:A:301:ARG:NH2	6:C:163:LYS:HA	2.32	0.44
1:A:373:SER:OG	1:A:374:LEU:N	2.49	0.44
2:B:490:LEU:O	2:B:493:CYS:HB2	2.17	0.44
4:D:-6:DT:N3	4:D:-5:DT:N3	2.64	0.44
4:D:17:DG:H1'	4:D:18:DC:C5	2.53	0.44
6:C:77:GLU:HB2	6:C:78:PHE:CE1	2.52	0.44
6:C:165:LYS:HB3	6:C:165:LYS:HE3	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:188:GLU:HA	6:C:191:ASN:OD1	2.17	0.44
6:C:194:GLU:OE2	6:C:230:LEU:HA	2.17	0.44
6:C:435:LEU:O	6:C:439:VAL:HG23	2.17	0.44
6:C:663:ILE:O	6:C:666:PHE:HB3	2.18	0.44
6:C:671:SER:O	6:C:675:ARG:HB3	2.17	0.44
6:C:738:HIS:HE2	6:C:745:VAL:HG13	1.82	0.44
6:C:850:GLU:CB	6:C:854:ARG:HH22	2.29	0.44
6:C:1515:LEU:HD12	6:C:1516:GLU:N	2.33	0.44
6:C:1602:ASP:OD1	6:C:1605:PHE:CD2	2.68	0.44
6:C:2148:LYS:HD3	6:C:2163:HIS:NE2	2.33	0.44
6:C:2278:GLY:O	6:C:2282:ALA:N	2.44	0.44
6:C:2389:PHE:N	6:C:2389:PHE:CD1	2.83	0.44
6:C:2801:ASP:N	6:C:2802:PRO:CD	2.80	0.44
6:C:3031:TRP:HB2	6:C:3033:GLU:H	1.82	0.44
6:C:3345:PRO:HA	6:C:3349:ALA:HB3	2.00	0.44
6:C:3357:ARG:CD	6:C:3380:ARG:HH12	2.30	0.44
6:C:3493:TRP:NE1	6:C:3710:LYS:O	2.50	0.44
6:C:3556:ALA:O	6:C:3559:LYS:HB3	2.17	0.44
6:C:3584:LEU:CB	6:C:3617:LEU:HD11	2.47	0.44
6:C:3667:LEU:HA	6:C:3670:MET:HG2	1.99	0.44
6:C:3864:ARG:NH1	6:C:4077:TYR:CD1	2.86	0.44
6:C:4065:LEU:O	6:C:4068:HIS:HB3	2.16	0.44
1:A:392:LYS:NZ	2:B:462:SER:HG	2.14	0.44
1:A:470:ARG:HA	2:B:345:PHE:HB2	1.99	0.44
2:B:56:LEU:HG	2:B:58:LEU:HG	1.99	0.44
2:B:81:ARG:NE	2:B:90:LEU:HD13	2.32	0.44
2:B:99:GLN:OE1	2:B:99:GLN:N	2.49	0.44
2:B:340:PHE:CD1	2:B:395:TYR:HB2	2.53	0.44
4:D:15:DG:H22	5:E:20:DT:P	2.39	0.44
5:E:20:DT:OP2	5:E:21:DA:N6	2.50	0.44
6:C:13:LEU:O	6:C:16:GLN:HG2	2.17	0.44
6:C:53:LEU:HA	6:C:56:SER:OG	2.17	0.44
6:C:113:SER:O	6:C:116:THR:HB	2.17	0.44
6:C:269:SER:OG	6:C:270:ALA:N	2.49	0.44
6:C:770:LEU:N	6:C:770:LEU:HD12	2.31	0.44
6:C:904:VAL:C	6:C:905:ILE:HG12	2.38	0.44
6:C:1297:PHE:O	6:C:1300:SER:HB3	2.17	0.44
6:C:1481:THR:HA	6:C:1484:LEU:HD23	1.98	0.44
6:C:1564:SER:HA	6:C:1567:ILE:HD12	1.99	0.44
6:C:1922:ALA:HA	6:C:1925:GLU:HB3	1.99	0.44
6:C:1945:TYR:CE2	6:C:1994:VAL:HG11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2086:ASP:HB3	6:C:2090:ARG:CG	2.47	0.44
6:C:2389:PHE:HA	6:C:2392:VAL:HB	2.00	0.44
6:C:2952:ILE:HD12	6:C:2965:TYR:CE1	2.52	0.44
6:C:2960:GLU:OE2	6:C:2962:ARG:HB3	2.17	0.44
6:C:3007:GLU:OE1	6:C:3050:LYS:N	2.34	0.44
6:C:3163:THR:OG1	6:C:3234:CYS:SG	2.56	0.44
6:C:3196:LYS:HA	6:C:3199:PRO:HD2	1.99	0.44
6:C:3280:TYR:OH	6:C:3308:ASP:OD1	2.23	0.44
6:C:3484:THR:HG1	6:C:3516:HIS:CE1	2.30	0.44
6:C:3532:PRO:O	6:C:3535:ILE:HG13	2.18	0.44
6:C:3754:GLY:HA2	6:C:3800:LEU:CB	2.47	0.44
6:C:3860:LYS:CB	6:C:3863:ASN:HB3	2.34	0.44
6:C:3863:ASN:HA	6:C:3866:GLU:CD	2.37	0.44
6:C:3898:LEU:HA	6:C:3898:LEU:HD23	1.69	0.44
6:C:4012:ASP:O	6:C:4016:PHE:HB3	2.17	0.44
6:C:4047:ALA:O	6:C:4051:LEU:CB	2.47	0.44
1:A:238:LYS:O	1:A:242:LEU:HD13	2.17	0.44
1:A:298:THR:CB	2:B:295:TYR:HA	2.48	0.44
2:B:148:ASP:HA	2:B:151:ILE:HD12	1.99	0.44
2:B:325:LYS:O	2:B:328:GLU:HB2	2.17	0.44
2:B:386:ASP:OD1	2:B:387:LEU:N	2.51	0.44
2:B:410:PRO:CA	2:B:419:LEU:HG	2.48	0.44
6:C:79:ARG:NH1	6:C:127:ALA:HB2	2.32	0.44
6:C:204:LEU:HD12	6:C:223:CYS:CB	2.47	0.44
6:C:204:LEU:O	6:C:208:MET:HG3	2.18	0.44
6:C:446:PHE:CD2	6:C:449:TYR:CZ	3.06	0.44
6:C:628:GLU:HG3	6:C:628:GLU:O	2.16	0.44
6:C:661:PRO:O	6:C:664:SER:N	2.50	0.44
6:C:855:VAL:O	6:C:859:LEU:HG	2.17	0.44
6:C:1018:VAL:HG13	6:C:1073:PHE:CE1	2.52	0.44
6:C:1024:THR:O	6:C:1027:ASP:CB	2.64	0.44
6:C:1256:TRP:CE3	6:C:1259:LEU:HD12	2.52	0.44
6:C:1564:SER:HA	6:C:1567:ILE:HB	1.98	0.44
6:C:1567:ILE:HG12	6:C:1571:LEU:HD11	2.00	0.44
6:C:1583:MET:SD	6:C:1646:LEU:HD12	2.58	0.44
6:C:1998:MET:HG3	6:C:1999:GLU:N	2.32	0.44
6:C:2276:LEU:HA	6:C:2276:LEU:HD12	1.68	0.44
6:C:2313:LYS:O	6:C:2315:VAL:HG22	2.18	0.44
6:C:2341:LEU:HA	6:C:2344:LEU:HD12	2.00	0.44
6:C:2454:LEU:O	6:C:2457:PRO:HD2	2.17	0.44
6:C:2455:LEU:O	6:C:2458:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2472:GLN:NE2	6:C:2472:GLN:O	2.50	0.44
6:C:2487:PRO:HD2	6:C:2489:SER:OG	2.18	0.44
6:C:2537:ASP:HA	6:C:2540:LEU:HG	1.97	0.44
6:C:2774:SER:HB2	6:C:2777:HIS:ND1	2.33	0.44
6:C:3011:LEU:O	6:C:3015:SER:HB2	2.18	0.44
6:C:3061:LEU:HD13	6:C:3093:GLN:HE21	1.83	0.44
6:C:3287:ARG:NH1	6:C:3330:LEU:HD23	2.32	0.44
6:C:3423:GLN:O	6:C:3426:LYS:HB3	2.18	0.44
6:C:3571:PHE:HE2	6:C:3690:PHE:HA	1.83	0.44
6:C:3581:PRO:HG2	6:C:3633:ILE:HG12	1.99	0.44
6:C:3861:GLY:O	6:C:3865:THR:HG23	2.17	0.44
6:C:3871:PHE:N	6:C:3874:ARG:HH21	2.16	0.44
6:C:3872:ARG:HH11	6:C:4117:LEU:HD12	1.82	0.44
6:C:3972:LEU:HB2	6:C:3976:GLU:OE2	2.17	0.44
6:C:4011:PHE:O	6:C:4016:PHE:N	2.50	0.44
6:C:4016:PHE:HA	6:C:4019:LYS:HG3	1.99	0.44
1:A:330:GLU:N	1:A:333:GLU:HB2	2.32	0.44
1:A:338:LYS:HD2	1:A:406:ILE:CA	2.48	0.44
2:B:53:GLU:HG2	2:B:84:MET:C	2.38	0.44
4:D:-9:DC:C2	4:D:-8:DT:C6	3.05	0.44
6:C:224:LEU:HD21	6:C:271:GLY:CA	2.47	0.44
6:C:282:PHE:CG	6:C:283:SER:N	2.86	0.44
6:C:290:TYR:CD1	6:C:293:LEU:HB2	2.53	0.44
6:C:393:LYS:HZ1	6:C:1869:LYS:HE2	1.82	0.44
6:C:554:ASN:O	6:C:557:SER:HB2	2.17	0.44
6:C:585:ILE:H	6:C:588:VAL:HG22	1.82	0.44
6:C:1063:LEU:HG	6:C:1063:LEU:H	1.54	0.44
6:C:1445:ARG:NH1	6:C:1495:ASP:HB3	2.32	0.44
6:C:1513:GLY:HA3	6:C:1573:LYS:HZ2	1.83	0.44
6:C:1811:ARG:HG3	6:C:1812:LEU:HG	1.99	0.44
6:C:1952:ILE:HG23	6:C:1956:PHE:CE1	2.52	0.44
6:C:2163:HIS:HB3	6:C:2189:ILE:HD12	2.00	0.44
6:C:2227:LYS:HE2	6:C:2232:ARG:HA	1.99	0.44
6:C:2281:MET:O	6:C:2283:ASN:N	2.51	0.44
6:C:2292:CYS:HG	6:C:2300:PHE:HD1	1.63	0.44
6:C:2367:VAL:C	6:C:2369:LYS:N	2.70	0.44
6:C:2554:PHE:CE1	6:C:2555:LEU:HG	2.53	0.44
6:C:2787:HIS:NE2	6:C:2790:LEU:HG	2.32	0.44
6:C:2894:GLU:HA	6:C:2898:LEU:HB2	1.98	0.44
6:C:3013:TYR:O	6:C:3016:THR:HB	2.17	0.44
6:C:3118:ASP:CG	6:C:3119:VAL:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3161:LEU:HD22	6:C:3164:TRP:NE1	2.31	0.44
6:C:3231:ILE:HG13	6:C:3235:LYS:HZ2	1.83	0.44
6:C:3325:ASP:O	6:C:3328:ILE:N	2.50	0.44
6:C:3530:VAL:HG13	6:C:3531:TYR:N	2.32	0.44
6:C:3555:VAL:HA	6:C:3558:ILE:HG12	1.99	0.44
6:C:3582:GLU:HG2	6:C:3586:LYS:HE2	1.98	0.44
6:C:3701:ILE:HG13	6:C:3719:ILE:HG22	1.99	0.44
6:C:3775:LEU:HD22	6:C:3786:LEU:HB2	2.00	0.44
1:A:36:ASP:HA	1:A:161:MET:CB	2.46	0.44
1:A:39:ILE:CG2	1:A:166:ILE:HG23	2.48	0.44
1:A:76:ILE:HG12	1:A:488:ARG:HH12	1.83	0.44
1:A:90:THR:H	1:A:101:ASN:CA	2.30	0.44
1:A:154:PHE:HE1	1:A:161:MET:SD	2.41	0.44
1:A:179:ASP:OD2	1:A:182:LYS:N	2.51	0.44
1:A:302:THR:CB	1:A:311:LEU:HB2	2.48	0.44
1:A:304:ASN:HA	1:A:311:LEU:HG	1.99	0.44
1:A:317:LYS:HB3	1:A:328:ILE:HD11	2.00	0.44
1:A:367:PHE:CE1	1:A:431:GLY:HA3	2.53	0.44
1:A:379:SER:O	1:A:383:SER:CB	2.58	0.44
2:B:11:VAL:HG11	2:B:114:SER:HB3	1.99	0.44
2:B:118:ILE:HD12	2:B:130:ARG:HD2	1.98	0.44
2:B:242:ARG:CZ	2:B:245:ILE:HG13	2.48	0.44
2:B:400:ARG:NH1	4:D:9:DG:H5''	2.32	0.44
5:E:44:DA:C6	5:E:45:DG:C5	3.06	0.44
6:C:318:SER:O	6:C:321:LYS:HB3	2.18	0.44
6:C:355:ASN:HD21	6:C:357:LYS:CE	2.27	0.44
6:C:384:MET:C	6:C:386:VAL:N	2.71	0.44
6:C:567:GLU:HB3	6:C:609:ALA:HB2	2.00	0.44
6:C:862:LEU:HA	6:C:3169:PRO:CB	2.45	0.44
6:C:907:LEU:H	6:C:2807:GLN:HE22	1.59	0.44
6:C:941:MET:HB3	6:C:941:MET:HE2	1.73	0.44
6:C:963:LYS:NZ	6:C:1006:THR:N	2.65	0.44
6:C:1088:GLU:HG3	6:C:1089:PHE:N	2.31	0.44
6:C:1162:SER:H	6:C:1165:LEU:CD1	2.31	0.44
6:C:1257:LEU:HD23	6:C:1257:LEU:HA	1.72	0.44
6:C:1376:LEU:HD12	6:C:1377:CYS:N	2.32	0.44
6:C:1603:GLN:HA	6:C:1606:ARG:HH22	1.82	0.44
6:C:2002:LYS:N	6:C:2005:ILE:HG23	2.28	0.44
6:C:2518:GLN:O	6:C:2522:ARG:HB2	2.18	0.44
6:C:2791:ILE:HG22	6:C:2795:GLN:CG	2.47	0.44
6:C:2817:LEU:HD22	6:C:2864:GLN:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2831:ASN:HA	6:C:2834:GLN:HG2	2.00	0.44
6:C:2910:VAL:HG22	6:C:2911:ARG:H	1.82	0.44
6:C:3019:ILE:HD12	6:C:3040:TYR:CE1	2.52	0.44
6:C:3126:LEU:HD23	6:C:3126:LEU:HA	1.70	0.44
6:C:3160:LEU:O	6:C:3163:THR:HG22	2.17	0.44
6:C:3356:ALA:HB1	6:C:3384:HIS:ND1	2.32	0.44
6:C:3359:ILE:HG22	6:C:3388:ALA:CB	2.47	0.44
6:C:3464:LYS:HE2	6:C:3468:LEU:HD21	1.99	0.44
6:C:3502:MET:SD	6:C:3517:SER:OG	2.60	0.44
6:C:3763:ARG:HH22	6:C:4009:PRO:N	2.16	0.44
6:C:3811:THR:CA	6:C:3929:MET:HG2	2.46	0.44
1:A:350:PHE:CE2	2:B:458:ILE:HA	2.53	0.44
1:A:471:PHE:HE2	2:B:344:GLY:CA	2.24	0.44
2:B:338:LYS:HD3	2:B:398:ASP:CG	2.38	0.44
2:B:407:VAL:H	2:B:424:LEU:N	2.15	0.44
2:B:524:THR:CA	2:B:527:GLN:HG2	2.40	0.44
5:E:37:DT:H2''	5:E:38:DA:C6	2.53	0.44
5:E:39:DA:N7	5:E:40:DT:C6	2.85	0.44
6:C:92:PHE:HA	6:C:95:LYS:HG2	2.00	0.44
6:C:138:PHE:CE2	6:C:177:LEU:HD22	2.52	0.44
6:C:152:LEU:HD12	6:C:155:LYS:NZ	2.33	0.44
6:C:376:ILE:HD12	6:C:385:TYR:HE2	1.82	0.44
6:C:424:LEU:HD22	6:C:426:THR:OG1	2.18	0.44
6:C:437:HIS:NE2	6:C:1813:SER:HB2	2.32	0.44
6:C:628:GLU:OE2	6:C:630:CYS:HB2	2.18	0.44
6:C:917:LEU:HA	6:C:927:LYS:HZ2	1.81	0.44
6:C:937:MET:O	6:C:940:PHE:HB3	2.17	0.44
6:C:1406:LEU:HD13	6:C:1414:ILE:HG22	1.99	0.44
6:C:1459:HIS:CE1	6:C:1509:GLN:HG3	2.51	0.44
6:C:1752:LEU:HD23	6:C:1892:LYS:CE	2.48	0.44
6:C:1798:LEU:N	6:C:1802:TYR:HB2	2.33	0.44
6:C:2965:TYR:HA	6:C:2968:ALA:HB3	1.98	0.44
6:C:3095:ASP:OD1	6:C:3095:ASP:N	2.51	0.44
6:C:3329:LEU:HB2	6:C:3389:VAL:CG2	2.47	0.44
6:C:3443:PRO:O	6:C:3447:VAL:HG13	2.18	0.44
6:C:3455:LYS:O	6:C:3456:LEU:HD12	2.17	0.44
6:C:3462:ARG:HB2	6:C:3498:TRP:CZ3	2.53	0.44
6:C:3467:ARG:HH11	6:C:4004:VAL:HB	1.83	0.44
6:C:3588:TRP:HA	6:C:3799:ARG:HH22	1.81	0.44
6:C:3926:ASN:OD1	6:C:3927:ASN:N	2.51	0.44
6:C:3963:LEU:HG	6:C:3964:THR:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:4000:ASN:HA	6:C:4003:ASP:HB3	1.99	0.44
1:A:442:ASP:O	2:B:267:ILE:HD13	2.18	0.44
1:A:488:ARG:HD3	1:A:491:GLU:OE1	2.18	0.44
2:B:135:PHE:HA	2:B:164:PHE:H	1.83	0.44
2:B:270:GLU:HG3	2:B:271:ARG:N	2.33	0.44
5:E:24:DG:C6	5:E:25:DG:N7	2.86	0.44
5:E:35:DC:H3'	5:E:35:DC:OP2	2.17	0.44
6:C:584:GLU:HG3	6:C:589:GLY:HA3	1.99	0.44
6:C:728:SER:OG	6:C:758:LEU:HD21	2.18	0.44
6:C:1059:LEU:HA	6:C:1062:ARG:NH1	2.32	0.44
6:C:1369:MET:HB3	6:C:1418:HIS:HB2	2.00	0.44
6:C:1945:TYR:HE2	6:C:1994:VAL:HG11	1.82	0.44
6:C:2086:ASP:HA	6:C:2089:ASN:HB2	1.98	0.44
6:C:2190:VAL:HA	6:C:2193:ILE:CG1	2.42	0.44
6:C:2254:ARG:O	6:C:2258:GLU:HG2	2.17	0.44
6:C:2389:PHE:C	6:C:2392:VAL:H	2.22	0.44
6:C:3059:GLN:HE21	6:C:3063:THR:HG21	1.82	0.44
6:C:3161:LEU:HA	6:C:3163:THR:HG22	1.99	0.44
6:C:3279:SER:O	6:C:3282:ARG:HB2	2.18	0.44
6:C:3545:THR:O	6:C:3552:LYS:HD2	2.18	0.44
6:C:3828:TYR:O	6:C:3832:PRO:HD2	2.17	0.44
6:C:3930:VAL:HA	6:C:3937:VAL:HA	1.99	0.44
6:C:3952:PHE:CG	6:C:4030:GLU:HG2	2.53	0.44
6:C:3972:LEU:C	6:C:3974:MET:H	2.20	0.44
6:C:4002:MET:O	6:C:4005:PHE:HB3	2.18	0.44
6:C:4079:ALA:HA	6:C:4082:ARG:NH1	2.32	0.44
1:A:42:VAL:HB	1:A:87:PHE:CD1	2.53	0.44
1:A:76:ILE:HG22	1:A:249:LYS:O	2.17	0.44
1:A:278:GLN:CD	4:D:1:DG:H3'	2.38	0.44
1:A:404:ARG:HG3	5:E:37:DT:OP1	2.17	0.44
1:A:404:ARG:HG3	5:E:36:DA:H3'	1.99	0.44
1:A:487:PHE:HD1	1:A:488:ARG:NH1	2.16	0.44
5:E:50:DT:H1'	5:E:51:DA:O4'	2.16	0.44
6:C:333:MET:O	6:C:337:LYS:HE3	2.18	0.44
6:C:352:VAL:HG11	6:C:364:ARG:HD2	2.00	0.44
6:C:458:CYS:O	6:C:462:VAL:HG12	2.17	0.44
6:C:570:LYS:O	6:C:573:LEU:HB2	2.18	0.44
6:C:673:THR:O	6:C:677:ALA:CB	2.66	0.44
6:C:673:THR:OG1	6:C:674:VAL:N	2.50	0.44
6:C:970:LEU:HB3	6:C:981:ARG:HH11	1.83	0.44
6:C:1006:THR:HA	6:C:1009:LEU:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1107:TYR:O	6:C:1111:LEU:HB3	2.12	0.44
6:C:1292:LYS:HB3	6:C:1361:LYS:HZ1	1.83	0.44
6:C:1367:HIS:N	6:C:1370:ARG:HH21	2.16	0.44
6:C:1582:LEU:HD11	6:C:1597:LEU:HD13	2.00	0.44
6:C:2052:TYR:HB3	6:C:2060:ARG:HH12	1.83	0.44
6:C:2183:HIS:O	6:C:2184:TYR:C	2.55	0.44
6:C:2501:LEU:HA	6:C:2504:ASP:CG	2.38	0.44
6:C:3114:TYR:HA	6:C:3128:LYS:HE2	2.00	0.44
6:C:3141:PHE:HZ	6:C:3192:LYS:CB	2.30	0.44
6:C:3284:SER:HA	6:C:3287:ARG:CB	2.43	0.44
6:C:3296:GLN:HA	6:C:3299:THR:CB	2.47	0.44
6:C:3450:MET:HB3	6:C:3454:LEU:HB2	2.00	0.44
6:C:3525:TYR:HA	6:C:3529:ILE:HG22	2.00	0.44
6:C:3817:LEU:HD22	6:C:3829:LEU:HD13	1.99	0.44
6:C:3923:ARG:CA	6:C:3927:ASN:HD22	2.31	0.44
6:C:4017:GLU:CG	6:C:4031:ILE:HB	2.47	0.44
6:C:4017:GLU:HG2	6:C:4031:ILE:HB	1.99	0.44
1:A:184:SER:HA	1:A:187:ARG:CG	2.48	0.43
1:A:206:LYS:NZ	1:A:209:GLY:H	2.16	0.43
1:A:277:VAL:HG22	1:A:278:GLN:H	1.83	0.43
1:A:340:PHE:HE1	2:B:489:ARG:HD3	1.83	0.43
2:B:65:ASP:O	2:B:79:VAL:HG23	2.18	0.43
4:D:1:DG:C2	4:D:2:DG:C4	3.06	0.43
5:E:45:DG:H5''	6:C:260:ILE:HA	2.00	0.43
6:C:237:SER:HB2	6:C:241:ASP:OD2	2.18	0.43
6:C:473:PRO:HB3	6:C:476:ARG:NH1	2.33	0.43
6:C:613:HIS:CE1	6:C:655:LEU:HD13	2.53	0.43
6:C:938:VAL:HG13	6:C:962:TYR:HE2	1.83	0.43
6:C:1037:LEU:O	6:C:1041:ILE:HG13	2.17	0.43
6:C:1428:ILE:HD12	6:C:1431:LEU:HD22	1.99	0.43
6:C:1763:THR:HG21	6:C:1857:LYS:HD3	1.99	0.43
6:C:2063:THR:HA	6:C:2066:PHE:CE2	2.53	0.43
6:C:2116:ASP:O	6:C:2155:GLU:HA	2.17	0.43
6:C:2212:ALA:HA	6:C:2215:LEU:HB3	1.99	0.43
6:C:2235:LEU:O	6:C:2236:GLU:C	2.56	0.43
6:C:2319:ALA:HB1	6:C:2323:LEU:HD12	2.00	0.43
6:C:2330:VAL:HG13	6:C:2335:ASN:OD1	2.17	0.43
6:C:2412:TYR:O	6:C:2412:TYR:CG	2.69	0.43
6:C:2823:PHE:HD2	6:C:2829:LYS:HZ1	1.66	0.43
6:C:2949:THR:O	6:C:2952:ILE:HG12	2.17	0.43
6:C:3078:LEU:HD13	6:C:3082:TYR:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3113:ASN:O	6:C:3116:SER:OG	2.26	0.43
6:C:3232:ARG:O	6:C:3235:LYS:N	2.50	0.43
6:C:3477:GLU:HG2	6:C:3481:SER:OG	2.18	0.43
6:C:3522:THR:HA	6:C:3525:TYR:HD2	1.83	0.43
6:C:3578:LEU:HA	6:C:3630:ARG:CZ	2.48	0.43
6:C:3633:ILE:O	6:C:3638:LYS:HG3	2.17	0.43
6:C:3704:GLN:HB3	6:C:3794:VAL:HG21	2.00	0.43
6:C:3819:THR:HG23	6:C:3882:LEU:HD22	2.00	0.43
6:C:3840:LYS:HG2	6:C:4122:GLU:OE2	2.17	0.43
1:A:112:GLY:O	1:A:115:ARG:HB2	2.18	0.43
1:A:365:SER:OG	1:A:434:LEU:HB2	2.18	0.43
1:A:397:LEU:CD1	1:A:437:LEU:HD11	2.48	0.43
1:A:438:PRO:HA	1:A:442:ASP:OD2	2.18	0.43
2:B:10:VAL:HG12	2:B:12:LEU:HD12	2.00	0.43
2:B:312:GLN:H	2:B:324:SER:HA	1.82	0.43
2:B:355:PHE:CD1	2:B:355:PHE:N	2.83	0.43
2:B:511:HIS:HA	2:B:514:ASN:HD22	1.83	0.43
6:C:69:VAL:HG12	6:C:73:LEU:HD11	1.99	0.43
6:C:108:LYS:O	6:C:112:THR:OG1	2.36	0.43
6:C:291:VAL:HA	6:C:294:PHE:HB3	1.99	0.43
6:C:345:PHE:CE2	6:C:367:GLY:HA3	2.53	0.43
6:C:625:ASN:O	6:C:663:ILE:HG22	2.18	0.43
6:C:785:MET:HG2	6:C:789:TYR:N	2.33	0.43
6:C:1065:SER:OG	6:C:1066:LEU:N	2.46	0.43
6:C:1153:LEU:HB3	6:C:1157:PHE:CZ	2.54	0.43
6:C:1352:SER:N	6:C:1353:PRO:HD2	2.33	0.43
6:C:1428:ILE:O	6:C:1431:LEU:HB3	2.18	0.43
6:C:1606:ARG:HA	6:C:1609:ALA:O	2.19	0.43
6:C:2286:PRO:HD2	6:C:2333:ARG:HH22	1.83	0.43
6:C:2412:TYR:OH	6:C:2415:LEU:HB2	2.18	0.43
6:C:2958:LEU:HD23	6:C:3989:ARG:NH1	2.33	0.43
6:C:3009:LYS:HD2	6:C:3050:LYS:HE3	2.00	0.43
6:C:3121:LEU:O	6:C:3124:SER:N	2.50	0.43
6:C:3320:ILE:C	6:C:3323:PHE:HB3	2.38	0.43
6:C:3335:ARG:HG3	6:C:3340:ALA:HB3	1.99	0.43
6:C:3507:ASP:OD2	6:C:3540:TYR:HA	2.19	0.43
6:C:3608:LYS:HG3	6:C:3611:GLU:OE1	2.18	0.43
6:C:3869:THR:HG22	6:C:3872:ARG:HH22	1.83	0.43
6:C:3949:ALA:HA	6:C:3952:PHE:CZ	2.54	0.43
6:C:4100:GLU:O	6:C:4103:GLN:HB2	2.18	0.43
1:A:41:LEU:HD11	1:A:88:TYR:CD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:TYR:CE1	1:A:146:VAL:HG21	2.53	0.43
1:A:103:TYR:CZ	1:A:135:MET:O	2.71	0.43
1:A:244:ARG:HA	1:A:247:ARG:CG	2.48	0.43
1:A:346:MET:HE3	1:A:399:ARG:HB2	2.00	0.43
2:B:400:ARG:CB	4:D:10:DG:H4'	2.48	0.43
2:B:410:PRO:N	2:B:419:LEU:HG	2.33	0.43
4:D:11:DC:C2	4:D:12:DC:C5	3.06	0.43
6:C:446:PHE:HD1	6:C:448:GLN:HA	1.83	0.43
6:C:653:LEU:HB2	6:C:656:GLN:OE1	2.17	0.43
6:C:789:TYR:HB2	6:C:793:LEU:HG	2.01	0.43
6:C:852:ARG:HH21	6:C:3111:MET:HA	1.83	0.43
6:C:934:LEU:HA	6:C:937:MET:CB	2.49	0.43
6:C:970:LEU:CB	6:C:981:ARG:HG3	2.48	0.43
6:C:1034:ARG:HH12	6:C:1038:LYS:N	2.15	0.43
6:C:1351:THR:HB	6:C:1353:PRO:HD2	1.99	0.43
6:C:1567:ILE:HA	6:C:1570:GLU:OE1	2.18	0.43
6:C:1642:LYS:O	6:C:1646:LEU:HG	2.19	0.43
6:C:1655:ILE:HG21	6:C:1681:ASP:HB3	2.00	0.43
6:C:1934:LEU:H	6:C:1937:ARG:HB3	1.83	0.43
6:C:2263:LYS:NZ	6:C:2270:ASN:HA	2.34	0.43
6:C:2323:LEU:HA	6:C:2323:LEU:HD23	1.59	0.43
6:C:2823:PHE:N	6:C:2823:PHE:CD1	2.82	0.43
6:C:2834:GLN:O	6:C:2838:GLN:HG3	2.19	0.43
6:C:3312:VAL:HB	6:C:3315:TYR:CB	2.48	0.43
6:C:3333:THR:OG1	6:C:3385:LEU:HD13	2.19	0.43
6:C:3345:PRO:HD3	6:C:3374:ILE:HD13	2.01	0.43
6:C:3531:TYR:CE2	6:C:3535:ILE:HG23	2.53	0.43
6:C:3759:ARG:HH12	6:C:4008:GLU:CD	2.21	0.43
6:C:3811:THR:HG21	6:C:3926:ASN:HB2	1.99	0.43
6:C:3962:ARG:NH1	6:C:4124:TRP:CE3	2.87	0.43
6:C:4113:ASP:OD1	6:C:4115:ASN:HB3	2.17	0.43
1:A:61:ASP:HA	1:A:64:ILE:CG1	2.48	0.43
1:A:290:ARG:H	2:B:311:ILE:N	2.03	0.43
1:A:368:VAL:CG2	1:A:434:LEU:HD21	2.47	0.43
1:A:420:LEU:N	2:B:439:LYS:HZ1	2.15	0.43
2:B:357:MET:HG3	2:B:423:GLN:HB3	1.99	0.43
2:B:466:LYS:CA	2:B:473:LEU:HG	2.49	0.43
4:D:16:DG:H2''	4:D:17:DG:C6	2.52	0.43
5:E:27:DC:N3	5:E:28:DA:C5	2.86	0.43
5:E:35:DC:C2	5:E:36:DA:N7	2.86	0.43
5:E:44:DA:H2''	5:E:45:DG:H5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:123:CYS:N	6:C:127:ALA:HB3	2.32	0.43
6:C:245:SER:OG	6:C:246:ARG:N	2.51	0.43
6:C:265:TYR:OH	6:C:304:THR:HG21	2.19	0.43
6:C:407:VAL:HG23	6:C:408:TYR:N	2.29	0.43
6:C:461:ILE:O	6:C:462:VAL:C	2.56	0.43
6:C:528:VAL:O	6:C:529:ASP:C	2.56	0.43
6:C:852:ARG:NH2	6:C:3111:MET:HA	2.34	0.43
6:C:865:GLN:H	6:C:865:GLN:HG2	1.67	0.43
6:C:913:ARG:CD	6:C:930:ALA:HA	2.49	0.43
6:C:968:VAL:HA	6:C:971:ARG:NE	2.33	0.43
6:C:1018:VAL:HG13	6:C:1073:PHE:HE1	1.83	0.43
6:C:1347:THR:O	6:C:1351:THR:HG23	2.17	0.43
6:C:1349:LEU:HB3	6:C:1405:ALA:HB1	2.01	0.43
6:C:1372:LEU:HD12	6:C:1372:LEU:HA	1.84	0.43
6:C:1651:LYS:HB3	6:C:1680:ALA:HB1	2.01	0.43
6:C:1652:ILE:HG22	6:C:1653:LEU:HD23	2.01	0.43
6:C:1653:LEU:O	6:C:1657:SER:CB	2.61	0.43
6:C:1672:PHE:O	6:C:1676:ILE:HG12	2.18	0.43
6:C:1722:PHE:O	6:C:1725:GLN:HB3	2.18	0.43
6:C:2270:ASN:O	6:C:2273:GLY:N	2.51	0.43
6:C:2438:ILE:O	6:C:2440:TYR:N	2.51	0.43
6:C:2496:GLN:HA	6:C:2499:PHE:HB3	2.00	0.43
6:C:2809:PHE:HA	6:C:2812:LEU:HD12	2.00	0.43
6:C:3038:GLU:HG3	6:C:3041:LEU:HD22	1.99	0.43
6:C:3168:TYR:N	6:C:3169:PRO:HD2	2.33	0.43
6:C:3401:TRP:HB2	6:C:3452:LYS:HZ2	1.82	0.43
6:C:3521:ILE:HG23	6:C:3522:THR:N	2.33	0.43
6:C:3602:ASN:CB	6:C:3655:LYS:HB3	2.48	0.43
6:C:3857:LEU:HA	6:C:4072:PRO:HB2	1.99	0.43
6:C:4013:TRP:CZ2	6:C:4040:PRO:HB2	2.52	0.43
6:C:4014:LYS:HD3	6:C:4017:GLU:CD	2.38	0.43
6:C:4104:VAL:O	6:C:4105:LYS:C	2.56	0.43
6:C:4107:LEU:HA	6:C:4110:GLN:CD	2.38	0.43
1:A:83:LEU:HD23	1:A:83:LEU:HA	1.78	0.43
1:A:182:LYS:HA	1:A:185:ARG:NH1	2.33	0.43
1:A:271:VAL:HG21	1:A:345:LEU:HD13	2.00	0.43
1:A:274:TYR:CE2	1:A:369:TYR:HB3	2.54	0.43
1:A:440:ALA:O	1:A:444:ARG:N	2.51	0.43
1:A:465:ILE:O	1:A:469:LEU:HG	2.19	0.43
1:A:514:MET:SD	2:B:255:SER:N	2.84	0.43
2:B:332:LYS:HE2	2:B:332:LYS:HB3	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:534:LYS:HE2	2:B:534:LYS:HB2	1.87	0.43
5:E:32:DT:C2	5:E:33:DA:C8	3.07	0.43
5:E:44:DA:H2'	5:E:45:DG:H8	1.81	0.43
6:C:29:LEU:O	6:C:33:GLN:HG2	2.18	0.43
6:C:257:ARG:O	6:C:264:ARG:NE	2.51	0.43
6:C:410:MET:O	6:C:413:PHE:HB2	2.18	0.43
6:C:469:ALA:O	6:C:1552:HIS:HE1	2.02	0.43
6:C:616:LYS:HG3	6:C:620:PHE:CE2	2.53	0.43
6:C:775:GLU:O	6:C:778:ILE:HB	2.18	0.43
6:C:1038:LYS:O	6:C:1041:ILE:HB	2.18	0.43
6:C:1127:CYS:O	6:C:1130:ALA:HB3	2.18	0.43
6:C:1272:GLY:HA3	6:C:1274:ARG:NH2	2.33	0.43
6:C:1407:LYS:NZ	6:C:1415:LEU:HD13	2.33	0.43
6:C:1445:ARG:HA	6:C:1448:LEU:HG	2.01	0.43
6:C:1911:LEU:HD21	6:C:1916:ILE:HB	1.99	0.43
6:C:2103:HIS:O	6:C:2106:ARG:N	2.48	0.43
6:C:2328:ARG:NH1	6:C:2370:SER:HB3	2.14	0.43
6:C:2482:ASP:CA	6:C:2485:ARG:HH21	2.32	0.43
6:C:2928:LYS:CE	6:C:3784:ARG:HH22	2.31	0.43
6:C:3036:TYR:HE2	6:C:3040:TYR:CD2	2.36	0.43
6:C:3247:ARG:CZ	6:C:3324:ARG:HH22	2.32	0.43
6:C:3535:ILE:O	6:C:3538:GLU:HB3	2.19	0.43
6:C:3726:VAL:HG21	6:C:3736:LYS:HB3	1.99	0.43
6:C:3772:ASN:O	6:C:3775:LEU:HB2	2.19	0.43
6:C:3864:ARG:CZ	6:C:4119:ARG:HD3	2.49	0.43
1:A:193:LEU:HA	1:A:193:LEU:HD12	1.78	0.43
1:A:291:GLU:OE2	1:A:292:THR:HG23	2.19	0.43
1:A:343:PRO:HG3	1:A:405:ASN:N	2.31	0.43
1:A:350:PHE:CG	2:B:458:ILE:HG23	2.54	0.43
1:A:370:PRO:HB2	1:A:372:GLU:OE2	2.19	0.43
1:A:395:ALA:HB1	1:A:413:LEU:O	2.19	0.43
2:B:268:LEU:HD13	2:B:360:GLN:HA	2.00	0.43
2:B:520:ALA:O	2:B:524:THR:CB	2.67	0.43
6:C:253:LEU:HA	6:C:300:TRP:CE2	2.53	0.43
6:C:548:GLU:H	6:C:548:GLU:HG3	1.40	0.43
6:C:670:LEU:HD22	6:C:740:ILE:HG23	2.00	0.43
6:C:849:GLU:O	6:C:852:ARG:N	2.50	0.43
6:C:1029:CYS:O	6:C:1085:ILE:HD11	2.19	0.43
6:C:1034:ARG:NH1	6:C:1038:LYS:N	2.66	0.43
6:C:1062:ARG:C	6:C:1066:LEU:HB3	2.39	0.43
6:C:1711:ARG:HG3	6:C:1712:ARG:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1958:GLU:HA	6:C:1961:PHE:HB3	2.01	0.43
6:C:2131:GLY:H	6:C:2140:LEU:HD12	1.83	0.43
6:C:2152:ASN:O	6:C:2156:VAL:HG22	2.19	0.43
6:C:2777:HIS:O	6:C:2780:LEU:HB3	2.18	0.43
6:C:2884:LEU:HD23	6:C:2884:LEU:HA	1.46	0.43
6:C:3024:PRO:O	6:C:3025:PRO:C	2.57	0.43
6:C:3084:GLN:C	6:C:3086:LEU:N	2.70	0.43
6:C:3321:LEU:HD23	6:C:3324:ARG:HG3	2.00	0.43
6:C:3497:SER:OG	6:C:3709:GLY:HA3	2.19	0.43
6:C:3620:PRO:HB2	6:C:3638:LYS:HZ3	1.84	0.43
6:C:4048:LYS:O	6:C:4051:LEU:HB3	2.19	0.43
1:A:261:LEU:HB3	1:A:269:ILE:CG2	2.49	0.43
1:A:409:TYR:CD1	2:B:484:ASN:HB3	2.54	0.43
2:B:277:THR:HG22	2:B:279:VAL:HG13	2.01	0.43
2:B:316:TYR:HD2	2:B:321:VAL:HG21	1.83	0.43
4:D:9:DG:C2	5:E:27:DC:N3	2.86	0.43
4:D:10:DG:C2	5:E:26:DC:O2	2.68	0.43
6:C:75:SER:OG	6:C:76:ILE:N	2.48	0.43
6:C:350:ARG:NH1	6:C:391:ARG:HH21	2.16	0.43
6:C:396:PHE:CE2	6:C:1817:GLN:HG3	2.54	0.43
6:C:408:TYR:N	6:C:408:TYR:CD2	2.87	0.43
6:C:538:ASP:O	6:C:545:LEU:HD13	2.18	0.43
6:C:613:HIS:HE1	6:C:653:LEU:CD2	2.31	0.43
6:C:727:ALA:HA	6:C:730:LEU:HB2	2.01	0.43
6:C:1484:LEU:HD13	6:C:1519:PHE:CZ	2.53	0.43
6:C:1580:LEU:HD11	6:C:1583:MET:SD	2.57	0.43
6:C:1902:GLY:O	6:C:1906:THR:OG1	2.37	0.43
6:C:1973:LYS:HZ3	6:C:1975:LEU:HB2	1.84	0.43
6:C:2304:VAL:O	6:C:2307:MET:HB3	2.18	0.43
6:C:2409:THR:HG22	6:C:2410:GLU:H	1.84	0.43
6:C:2424:MET:HG3	6:C:2436:LEU:HD13	2.01	0.43
6:C:2507:ILE:C	6:C:2510:LEU:H	2.20	0.43
6:C:2932:SER:HA	6:C:2935:GLU:CD	2.38	0.43
6:C:2952:ILE:HG21	6:C:2969:ALA:CB	2.35	0.43
6:C:3152:SER:H	6:C:3154:GLN:N	2.16	0.43
6:C:3640:PHE:O	6:C:3643:HIS:HB2	2.18	0.43
6:C:3978:GLY:O	6:C:3981:TYR:HB3	2.18	0.43
6:C:4013:TRP:HB3	6:C:4035:GLU:OE1	2.19	0.43
1:A:124:GLY:HA3	1:A:126:GLN:HE22	1.84	0.43
1:A:232:HIS:HB2	1:A:423:GLN:C	2.39	0.43
1:A:252:ARG:HG3	1:A:253:LYS:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:GLY:O	1:A:368:VAL:HA	2.19	0.43
1:A:288:LEU:HD23	1:A:295:PRO:HA	2.00	0.43
1:A:318:ARG:NH1	2:B:278:VAL:HG13	2.33	0.43
1:A:422:ASP:N	1:A:422:ASP:OD1	2.50	0.43
2:B:273:LYS:HD2	2:B:273:LYS:N	2.34	0.43
2:B:490:LEU:HD12	2:B:490:LEU:HA	1.75	0.43
6:C:63:PHE:CD2	6:C:103:TYR:CG	3.07	0.43
6:C:70:ARG:HH11	6:C:73:LEU:CB	2.32	0.43
6:C:70:ARG:NH1	6:C:78:PHE:HB2	2.33	0.43
6:C:139:ARG:CZ	6:C:180:LEU:HD21	2.49	0.43
6:C:327:VAL:HG22	6:C:334:HIS:ND1	2.33	0.43
6:C:549:ALA:O	6:C:553:VAL:HG23	2.19	0.43
6:C:607:ASP:HA	6:C:610:ALA:CB	2.37	0.43
6:C:756:PHE:HZ	6:C:776:TRP:CG	2.37	0.43
6:C:977:ASP:HB3	6:C:979:VAL:CG2	2.43	0.43
6:C:1125:GLN:HA	6:C:1128:CYS:CB	2.44	0.43
6:C:1232:PRO:HB2	6:C:1291:LEU:HD13	1.99	0.43
6:C:1253:THR:HA	6:C:1257:LEU:CB	2.46	0.43
6:C:1296:PHE:CE2	6:C:1361:LYS:HG2	2.52	0.43
6:C:1602:ASP:O	6:C:1606:ARG:N	2.47	0.43
6:C:1655:ILE:HA	6:C:1677:SER:CB	2.48	0.43
6:C:1756:PRO:O	6:C:1892:LYS:NZ	2.49	0.43
6:C:1866:GLN:HA	6:C:1869:LYS:CG	2.49	0.43
6:C:2389:PHE:O	6:C:2393:LEU:N	2.52	0.43
6:C:2484:TYR:CB	6:C:2499:PHE:HD1	2.31	0.43
6:C:2559:THR:HG1	6:C:2560:ASN:H	1.67	0.43
6:C:2809:PHE:HA	6:C:2812:LEU:CD1	2.49	0.43
6:C:2852:PRO:O	6:C:2855:VAL:HB	2.18	0.43
6:C:3273:LEU:HD22	6:C:3321:LEU:HD11	2.00	0.43
6:C:3277:VAL:HB	6:C:3324:ARG:HH21	1.82	0.43
6:C:3602:ASN:HA	6:C:3605:ASN:ND2	2.34	0.43
6:C:3729:MET:O	6:C:3734:ARG:HA	2.18	0.43
6:C:3740:ILE:HG13	6:C:3750:PHE:CD2	2.54	0.43
6:C:3756:GLU:HG3	6:C:3758:LEU:HD12	2.00	0.43
1:A:58:THR:OG1	1:A:60:PHE:HB3	2.19	0.43
1:A:204:HIS:HB3	1:A:237:SER:CB	2.37	0.43
1:A:296:VAL:HG11	2:B:295:TYR:CD1	2.50	0.43
2:B:47:PHE:CE2	2:B:491:PHE:CG	3.06	0.43
2:B:165:LEU:HD13	2:B:167:PHE:CD2	2.54	0.43
6:C:224:LEU:HA	6:C:227:LEU:HD23	1.99	0.43
6:C:286:LEU:HD23	6:C:286:LEU:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:389:ILE:HA	6:C:392:CYS:SG	2.59	0.43
6:C:468:LEU:HB3	6:C:476:ARG:HB3	1.99	0.43
6:C:653:LEU:HB2	6:C:656:GLN:CD	2.39	0.43
6:C:660:LEU:H	6:C:660:LEU:HG	1.61	0.43
6:C:677:ALA:O	6:C:681:LYS:CB	2.67	0.43
6:C:736:LEU:C	6:C:739:ASN:H	2.22	0.43
6:C:853:ILE:O	6:C:857:GLN:HG3	2.19	0.43
6:C:1098:GLN:HA	6:C:1101:PHE:CD2	2.54	0.43
6:C:1269:THR:HG21	6:C:1347:THR:HG22	2.00	0.43
6:C:1689:LYS:HZ1	6:C:1727:ARG:HB3	1.82	0.43
6:C:1709:GLU:CD	6:C:1716:GLN:HE22	2.22	0.43
6:C:2285:LEU:O	6:C:2286:PRO:C	2.56	0.43
6:C:2501:LEU:HD12	6:C:2504:ASP:OD2	2.19	0.43
6:C:2518:GLN:O	6:C:2522:ARG:HB3	2.18	0.43
6:C:2912:GLY:O	6:C:2917:PRO:HD3	2.18	0.43
6:C:2981:TRP:CE3	6:C:2987:THR:HB	2.54	0.43
6:C:3414:MET:O	6:C:3417:ALA:HB3	2.18	0.43
6:C:3446:VAL:HA	6:C:3449:LYS:HD3	2.00	0.43
6:C:3495:PHE:CD1	6:C:3498:TRP:CE2	3.07	0.43
6:C:3725:ARG:O	6:C:3739:ILE:HG12	2.18	0.43
6:C:3923:ARG:CB	6:C:3962:ARG:HH22	2.32	0.43
1:A:150:CYS:O	1:A:153:LEU:HB2	2.19	0.43
1:A:310:LEU:HD23	1:A:312:LEU:HD11	2.01	0.43
1:A:346:MET:O	1:A:398:CYS:HA	2.19	0.43
2:B:47:PHE:CD1	2:B:47:PHE:N	2.84	0.43
2:B:138:LEU:O	2:B:201:GLN:HA	2.19	0.43
2:B:251:LEU:HB2	2:B:340:PHE:CD2	2.51	0.43
2:B:368:ARG:O	2:B:369:ASP:HB2	2.19	0.43
2:B:371:GLU:OE1	2:B:371:GLU:N	2.49	0.43
2:B:466:LYS:HA	2:B:473:LEU:HG	2.01	0.43
2:B:521:GLU:O	2:B:525:LYS:HG3	2.18	0.43
5:E:34:DC:H6	5:E:34:DC:O5'	2.01	0.43
6:C:287:LEU:O	6:C:288:ASP:C	2.58	0.43
6:C:294:PHE:CE2	6:C:298:LEU:HD11	2.53	0.43
6:C:376:ILE:HG13	6:C:380:ASP:HA	2.00	0.43
6:C:576:VAL:HG23	6:C:603:ILE:O	2.19	0.43
6:C:754:MET:HE3	6:C:1020:PRO:HG3	2.01	0.43
6:C:970:LEU:HD22	6:C:1031:ARG:NH2	2.34	0.43
6:C:993:HIS:CD2	6:C:2776:ARG:HB2	2.54	0.43
6:C:1013:ILE:HB	6:C:1028:PHE:HD1	1.82	0.43
6:C:1110:SER:O	6:C:1114:ALA:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1121:LEU:HB3	6:C:1123:THR:HG23	2.00	0.43
6:C:1224:PHE:HE1	6:C:1279:LEU:HD23	1.84	0.43
6:C:1356:TRP:HA	6:C:1359:LEU:HD12	2.01	0.43
6:C:1962:TYR:CD2	6:C:1963:GLN:NE2	2.87	0.43
6:C:1977:ILE:HG22	6:C:1978:PHE:N	2.33	0.43
6:C:2234:ASN:O	6:C:2237:ILE:HB	2.19	0.43
6:C:2246:LYS:HE2	6:C:2246:LYS:HB2	1.66	0.43
6:C:2914:ALA:C	6:C:2917:PRO:HD2	2.39	0.43
6:C:3159:ARG:HE	6:C:3162:ASN:ND2	2.16	0.43
6:C:3278:GLN:O	6:C:3282:ARG:HG3	2.19	0.43
6:C:3298:LEU:O	6:C:3302:LYS:HG3	2.18	0.43
6:C:3495:PHE:HZ	6:C:3502:MET:HB2	1.83	0.43
6:C:3571:PHE:CE2	6:C:3690:PHE:HA	2.54	0.43
6:C:3603:LYS:HD3	6:C:3655:LYS:HD2	2.00	0.43
6:C:3710:LYS:HA	6:C:3710:LYS:HD3	1.83	0.43
6:C:3903:HIS:HA	6:C:3906:SER:OG	2.19	0.43
1:A:92:LYS:N	1:A:103:TYR:OH	2.50	0.42
1:A:261:LEU:HB2	1:A:345:LEU:HB2	2.01	0.42
1:A:300:THR:OG1	2:B:291:LYS:HG2	2.19	0.42
1:A:336:GLU:HG3	1:A:339:ARG:NH2	2.33	0.42
1:A:361:TYR:HD1	2:B:353:ARG:NH2	2.17	0.42
1:A:404:ARG:CG	5:E:36:DA:H3'	2.49	0.42
1:A:474:ARG:HG3	1:A:476:ASP:N	2.31	0.42
2:B:15:ASP:HB2	2:B:59:PHE:HE1	1.81	0.42
2:B:327:ASP:HA	2:B:330:GLN:NE2	2.34	0.42
4:D:-8:DT:C2'	4:D:-7:DA:C8	2.92	0.42
4:D:1:DG:N1	5:E:36:DA:C6	2.87	0.42
4:D:6:DT:O4	4:D:7:DA:N6	2.52	0.42
6:C:116:THR:O	6:C:119:ARG:HB3	2.19	0.42
6:C:157:TYR:O	6:C:160:LEU:HG	2.19	0.42
6:C:904:VAL:O	6:C:905:ILE:HG12	2.19	0.42
6:C:925:GLN:HG3	6:C:926:THR:CG2	2.45	0.42
6:C:1014:LEU:HD12	6:C:1015:ASP:N	2.34	0.42
6:C:1054:VAL:O	6:C:1059:LEU:HD21	2.19	0.42
6:C:1085:ILE:O	6:C:1088:GLU:HG2	2.19	0.42
6:C:1220:LEU:HD12	6:C:1274:ARG:HE	1.84	0.42
6:C:1297:PHE:CD1	6:C:1297:PHE:N	2.84	0.42
6:C:1415:LEU:H	6:C:1415:LEU:HG	1.61	0.42
6:C:1925:GLU:O	6:C:1928:ALA:HB3	2.19	0.42
6:C:2022:PRO:HA	6:C:2041:SER:CB	2.49	0.42
6:C:2189:ILE:O	6:C:2192:THR:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2361:ILE:HD12	6:C:2365:ASN:HD21	1.83	0.42
6:C:2379:MET:HG3	6:C:2380:ASN:N	2.33	0.42
6:C:2549:LYS:HD3	6:C:2554:PHE:HB3	2.00	0.42
6:C:2866:ALA:C	6:C:2868:LEU:N	2.72	0.42
6:C:3031:TRP:CE3	6:C:3034:PRO:HD3	2.54	0.42
6:C:3036:TYR:CE1	6:C:3039:THR:HB	2.54	0.42
6:C:3160:LEU:O	6:C:3162:ASN:N	2.52	0.42
6:C:3174:ASP:HB3	6:C:3783:GLN:HE21	1.84	0.42
6:C:3192:LYS:HA	6:C:3195:GLU:CG	2.47	0.42
6:C:3193:ILE:HG21	6:C:3231:ILE:HD13	2.01	0.42
6:C:3252:PHE:HE1	6:C:3285:HIS:CB	2.32	0.42
6:C:3568:ILE:HD11	6:C:3696:ARG:CZ	2.49	0.42
6:C:3774:ILE:HG13	6:C:3777:GLN:CD	2.40	0.42
6:C:3887:PHE:O	6:C:3890:MET:HB3	2.18	0.42
6:C:3922:ASP:HB2	6:C:3943:GLY:N	2.34	0.42
6:C:4073:ALA:HB1	6:C:4119:ARG:HH22	1.84	0.42
1:A:277:VAL:HG21	2:B:429:ASP:OD1	2.19	0.42
1:A:310:LEU:HG	1:A:311:LEU:H	1.83	0.42
1:A:488:ARG:O	1:A:491:GLU:N	2.52	0.42
4:D:-4:DA:H4'	6:C:169:THR:CG2	2.48	0.42
6:C:334:HIS:HB3	6:C:338:LEU:HB2	2.00	0.42
6:C:745:VAL:HA	6:C:748:TYR:HE2	1.84	0.42
6:C:1265:GLU:CD	6:C:1292:LYS:HE3	2.39	0.42
6:C:1282:LEU:HD23	6:C:1287:GLN:HG3	2.00	0.42
6:C:1356:TRP:CG	6:C:1359:LEU:HD12	2.54	0.42
6:C:1482:GLU:C	6:C:1485:SER:H	2.22	0.42
6:C:1732:GLY:O	6:C:1874:TYR:OH	2.36	0.42
6:C:1908:GLY:HA3	6:C:1948:ALA:O	2.20	0.42
6:C:2072:ARG:O	6:C:2076:VAL:HG13	2.18	0.42
6:C:2198:GLY:O	6:C:2201:THR:HB	2.19	0.42
6:C:2393:LEU:O	6:C:2394:LYS:HB3	2.19	0.42
6:C:2396:LEU:C	6:C:2400:VAL:HB	2.38	0.42
6:C:2536:LEU:O	6:C:2540:LEU:HG	2.19	0.42
6:C:2865:HIS:CB	6:C:2868:LEU:HB2	2.38	0.42
6:C:2919:ASP:O	6:C:2923:TRP:HD1	2.03	0.42
6:C:3462:ARG:CZ	6:C:3463:LEU:HD11	2.49	0.42
6:C:3596:LEU:HB3	6:C:3657:SER:HA	2.01	0.42
6:C:3761:ASP:OD2	6:C:3942:PHE:HB2	2.19	0.42
6:C:3887:PHE:CD2	6:C:3897:PHE:CE1	3.07	0.42
1:A:129:LYS:HA	1:A:132:GLN:OE1	2.18	0.42
1:A:287:LYS:O	1:A:295:PRO:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:GLU:HA	1:A:335:GLU:OE2	2.19	0.42
1:A:397:LEU:HD12	1:A:398:CYS:H	1.84	0.42
1:A:484:GLN:HA	1:A:487:PHE:CZ	2.53	0.42
2:B:37:VAL:HG22	2:B:231:LEU:HG	1.99	0.42
2:B:165:LEU:HD13	2:B:167:PHE:CE2	2.55	0.42
2:B:250:ARG:NH2	2:B:260:ARG:HH21	2.17	0.42
4:D:-2:DT:N3	5:E:38:DA:C6	2.87	0.42
5:E:38:DA:H1'	5:E:39:DA:C4	2.54	0.42
6:C:32:HIS:CE1	6:C:81:CYS:SG	3.13	0.42
6:C:75:SER:HB2	6:C:79:ARG:HG2	2.01	0.42
6:C:532:ARG:NH1	6:C:535:LEU:HB3	2.34	0.42
6:C:533:HIS:HA	6:C:536:SER:HB3	2.00	0.42
6:C:738:HIS:NE2	6:C:748:TYR:CD2	2.82	0.42
6:C:868:LYS:HE2	6:C:868:LYS:HB2	1.85	0.42
6:C:993:HIS:O	6:C:1038:LYS:HE3	2.19	0.42
6:C:1108:MET:C	6:C:1111:LEU:HB3	2.39	0.42
6:C:1224:PHE:CE2	6:C:1278:ALA:HB1	2.54	0.42
6:C:1598:ASN:HA	6:C:1601:LEU:CG	2.44	0.42
6:C:1606:ARG:HB3	6:C:1606:ARG:CZ	2.49	0.42
6:C:1713:VAL:HA	6:C:1716:GLN:HB2	2.01	0.42
6:C:1873:TYR:H	6:C:1873:TYR:HD2	1.65	0.42
6:C:1949:ILE:O	6:C:1952:ILE:HG22	2.19	0.42
6:C:2240:THR:OG1	6:C:2241:LEU:HG	2.19	0.42
6:C:2477:LEU:HD23	6:C:2477:LEU:HA	1.69	0.42
6:C:2939:LEU:H	6:C:2939:LEU:HG	1.59	0.42
6:C:3167:ARG:HH21	6:C:3186:ARG:HB3	1.85	0.42
6:C:3262:LEU:O	6:C:3265:GLU:N	2.52	0.42
6:C:3626:GLY:O	6:C:3629:ARG:HB3	2.20	0.42
1:A:89:GLY:CA	1:A:101:ASN:HB3	2.50	0.42
1:A:109:ASP:OD2	1:A:115:ARG:CZ	2.67	0.42
1:A:129:LYS:O	1:A:132:GLN:HB2	2.19	0.42
1:A:414:VAL:HG12	1:A:415:PRO:O	2.19	0.42
2:B:297:LEU:HB2	2:B:302:GLU:C	2.40	0.42
2:B:399:LYS:NZ	5:E:27:DC:H1'	2.34	0.42
5:E:31:DA:C2	5:E:32:DT:C2	3.08	0.42
6:C:134:LEU:O	6:C:137:THR:HB	2.19	0.42
6:C:236:LYS:HB2	6:C:278:HIS:CD2	2.55	0.42
6:C:247:GLU:O	6:C:250:ASN:N	2.53	0.42
6:C:252:VAL:HG11	6:C:268:PRO:HG3	2.00	0.42
6:C:453:MET:O	6:C:456:VAL:HB	2.19	0.42
6:C:916:GLU:OE2	6:C:929:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1145:LEU:HD23	6:C:1145:LEU:HA	1.85	0.42
6:C:1152:ARG:HA	6:C:1155:ARG:CG	2.48	0.42
6:C:1173:LEU:HA	6:C:1173:LEU:HD23	1.80	0.42
6:C:1271:ILE:HB	6:C:1274:ARG:HG3	2.01	0.42
6:C:1568:ASN:O	6:C:1572:LEU:HG	2.19	0.42
6:C:1598:ASN:CA	6:C:1601:LEU:HG	2.43	0.42
6:C:1926:ASN:C	6:C:1929:GLY:H	2.23	0.42
6:C:2032:ALA:HB1	6:C:2036:LEU:HG	2.01	0.42
6:C:2065:ARG:HB2	6:C:2066:PHE:CE1	2.54	0.42
6:C:2076:VAL:HB	6:C:2079:ASP:OD2	2.20	0.42
6:C:2225:HIS:O	6:C:2228:ARG:HB3	2.20	0.42
6:C:2233:HIS:HA	6:C:2236:GLU:OE1	2.19	0.42
6:C:2242:VAL:O	6:C:2245:TRP:CD1	2.70	0.42
6:C:2378:PHE:CD1	6:C:2379:MET:N	2.88	0.42
6:C:2576:MET:HA	6:C:2788:SER:OG	2.19	0.42
6:C:2791:ILE:HA	6:C:2794:LEU:HD12	2.00	0.42
6:C:2840:PHE:HA	6:C:2843:PHE:CB	2.49	0.42
6:C:2923:TRP:HH2	6:C:2998:SER:HA	1.85	0.42
6:C:2927:ALA:O	6:C:2931:ARG:NH1	2.53	0.42
6:C:2987:THR:O	6:C:2991:LYS:HB3	2.19	0.42
6:C:2990:GLU:O	6:C:2994:TRP:HB3	2.19	0.42
6:C:3495:PHE:HA	6:C:3498:TRP:CZ3	2.55	0.42
6:C:3685:PRO:O	6:C:3688:SER:HB2	2.19	0.42
6:C:3718:ARG:HB2	6:C:3743:HIS:HB2	2.02	0.42
6:C:3965:ARG:O	6:C:3968:ILE:HG22	2.19	0.42
6:C:4020:MET:O	6:C:4024:GLY:N	2.52	0.42
1:A:66:CYS:SG	1:A:239:LEU:HD22	2.59	0.42
1:A:176:HIS:CE1	1:A:179:ASP:O	2.72	0.42
1:A:411:VAL:CG1	1:A:436:PHE:HA	2.43	0.42
1:A:486:HIS:HE1	2:B:323:PHE:CE2	2.37	0.42
1:A:488:ARG:HD3	1:A:488:ARG:HA	1.91	0.42
2:B:20:MET:O	2:B:31:PHE:HD2	2.02	0.42
6:C:276:ALA:O	6:C:322:GLN:NE2	2.53	0.42
6:C:278:HIS:HA	6:C:281:GLN:HG3	2.00	0.42
6:C:315:ALA:HA	6:C:318:SER:HB2	2.01	0.42
6:C:369:PHE:CZ	6:C:373:CYS:HA	2.55	0.42
6:C:614:PRO:O	6:C:617:PRO:HD2	2.19	0.42
6:C:623:PHE:HD2	6:C:624:ILE:HB	1.84	0.42
6:C:773:LEU:O	6:C:776:TRP:HB3	2.20	0.42
6:C:1032:CYS:O	6:C:1036:PHE:N	2.50	0.42
6:C:1171:TRP:HZ3	6:C:1176:CYS:SG	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1268:ASN:O	6:C:1274:ARG:HB2	2.19	0.42
6:C:1517:LEU:O	6:C:1520:ALA:HB3	2.19	0.42
6:C:1878:ASP:H	6:C:1881:TYR:HD2	1.66	0.42
6:C:1968:SER:O	6:C:1971:PRO:HG2	2.19	0.42
6:C:2494:ASP:HA	6:C:2497:GLU:CG	2.49	0.42
6:C:2890:ILE:HD11	6:C:2918:PRO:HA	2.02	0.42
6:C:2906:PRO:HB3	6:C:2941:GLY:C	2.39	0.42
6:C:2913:LYS:O	6:C:2917:PRO:HG2	2.18	0.42
6:C:2934:GLY:HA2	6:C:2937:ASP:HB3	2.01	0.42
6:C:2990:GLU:H	6:C:2990:GLU:CD	2.17	0.42
6:C:3077:ILE:HB	6:C:3081:HIS:CE1	2.55	0.42
6:C:3126:LEU:HA	6:C:3129:LEU:HB2	2.01	0.42
6:C:3259:LEU:HD22	6:C:3282:ARG:NH1	2.26	0.42
6:C:3314:SER:CA	6:C:3315:TYR:HB3	2.49	0.42
6:C:3412:ALA:O	6:C:3415:THR:HB	2.19	0.42
6:C:3487:ILE:HD13	6:C:3490:VAL:CG2	2.50	0.42
6:C:3701:ILE:CG1	6:C:3719:ILE:HG22	2.49	0.42
6:C:3767:LEU:O	6:C:3768:PHE:C	2.56	0.42
6:C:3775:LEU:HD13	6:C:3786:LEU:O	2.19	0.42
6:C:3873:LYS:HA	6:C:3877:LYS:NZ	2.35	0.42
6:C:3923:ARG:O	6:C:4124:TRP:CD1	2.72	0.42
6:C:4044:ILE:O	6:C:4048:LYS:HB2	2.18	0.42
6:C:4049:ARG:O	6:C:4052:ALA:HB3	2.20	0.42
6:C:4102:THR:HG1	6:C:4103:GLN:N	2.17	0.42
1:A:128:GLN:NE2	1:A:132:GLN:HE21	2.08	0.42
1:A:220:ILE:HD12	1:A:220:ILE:N	2.34	0.42
2:B:188:HIS:CE1	2:B:519:PRO:HG3	2.55	0.42
2:B:246:HIS:HA	2:B:264:TYR:CE1	2.54	0.42
2:B:377:LEU:O	2:B:381:ILE:HG13	2.20	0.42
2:B:387:LEU:HB2	2:B:389:MET:HG2	2.02	0.42
2:B:523:THR:C	2:B:527:GLN:HE21	2.21	0.42
4:D:-15:DT:H2'	4:D:-14:DA:C8	2.54	0.42
5:E:25:DG:C6	5:E:26:DC:C4	3.07	0.42
5:E:28:DA:H8	5:E:28:DA:C5'	2.32	0.42
6:C:79:ARG:HA	6:C:79:ARG:HD3	1.87	0.42
6:C:241:ASP:O	6:C:244:THR:HB	2.20	0.42
6:C:286:LEU:O	6:C:289:ASN:HB3	2.19	0.42
6:C:670:LEU:HB3	6:C:740:ILE:HG23	2.01	0.42
6:C:706:LEU:C	6:C:709:LYS:H	2.23	0.42
6:C:1051:LYS:O	6:C:1053:PRO:HD3	2.20	0.42
6:C:1060:PHE:HB3	6:C:1064:TYR:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1092:GLU:OE2	6:C:1094:SER:N	2.52	0.42
6:C:1157:PHE:HB2	6:C:1158:PRO:HD3	2.01	0.42
6:C:1412:LYS:HD2	6:C:1415:LEU:HD12	2.02	0.42
6:C:1417:THR:HA	6:C:1420:ARG:HB3	2.02	0.42
6:C:1700:THR:O	6:C:1705:GLY:N	2.53	0.42
6:C:2330:VAL:CG2	6:C:2335:ASN:HA	2.44	0.42
6:C:2425:ARG:NH2	6:C:2456:ASN:HB2	2.33	0.42
6:C:2436:LEU:O	6:C:2440:TYR:CE2	2.72	0.42
6:C:2510:LEU:HD11	6:C:2523:ASN:OD1	2.19	0.42
6:C:2791:ILE:H	6:C:2791:ILE:HG13	1.67	0.42
6:C:2829:LYS:O	6:C:2832:ILE:HB	2.19	0.42
6:C:2920:VAL:CA	6:C:2923:TRP:HD1	2.33	0.42
6:C:3417:ALA:HB2	6:C:3446:VAL:HB	2.01	0.42
6:C:3555:VAL:O	6:C:3558:ILE:N	2.53	0.42
6:C:3566:GLY:O	6:C:3569:GLN:HB2	2.19	0.42
6:C:3602:ASN:ND2	6:C:3655:LYS:O	2.39	0.42
6:C:3631:LYS:O	6:C:3635:THR:HG23	2.19	0.42
6:C:3920:ILE:HG23	6:C:4124:TRP:HH2	1.83	0.42
6:C:4066:LEU:HD12	6:C:4075:ARG:CZ	2.49	0.42
6:C:4117:LEU:HD23	6:C:4117:LEU:HA	1.74	0.42
1:A:63:SER:O	1:A:66:CYS:HB2	2.20	0.42
1:A:129:LYS:O	1:A:132:GLN:N	2.53	0.42
1:A:303:PHE:HD1	1:A:304:ASN:O	2.02	0.42
1:A:352:PRO:HA	1:A:393:GLU:O	2.19	0.42
1:A:384:ALA:HA	1:A:387:ILE:HB	2.00	0.42
1:A:508:LEU:CD2	2:B:394:ARG:HD2	2.50	0.42
2:B:54:ILE:CA	2:B:83:LEU:HD23	2.49	0.42
2:B:141:ARG:HA	2:B:141:ARG:HD3	1.83	0.42
2:B:432:GLN:N	2:B:432:GLN:OE1	2.53	0.42
6:C:82:ARG:HH12	6:C:117:LYS:HG3	1.84	0.42
6:C:100:ILE:O	6:C:103:TYR:N	2.52	0.42
6:C:465:PHE:HD1	6:C:468:LEU:HD12	1.83	0.42
6:C:649:PHE:CZ	6:C:652:GLU:HA	2.54	0.42
6:C:650:SER:O	6:C:652:GLU:HG3	2.20	0.42
6:C:673:THR:HB	6:C:707:PHE:HE2	1.80	0.42
6:C:911:LEU:O	6:C:915:THR:HG23	2.20	0.42
6:C:913:ARG:NH1	6:C:930:ALA:HA	2.35	0.42
6:C:936:SER:CB	6:C:2791:ILE:HG12	2.49	0.42
6:C:993:HIS:CE1	6:C:2777:HIS:CE1	3.08	0.42
6:C:1112:ALA:HA	6:C:1115:HIS:NE2	2.35	0.42
6:C:1115:HIS:C	6:C:1117:ASP:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1232:PRO:HB2	6:C:1291:LEU:CB	2.43	0.42
6:C:1387:GLY:CA	6:C:1391:VAL:HB	2.43	0.42
6:C:1404:LYS:HA	6:C:1407:LYS:CG	2.50	0.42
6:C:1427:SER:O	6:C:1431:LEU:HB2	2.19	0.42
6:C:1524:LEU:HD11	6:C:1560:TYR:O	2.19	0.42
6:C:1682:THR:HA	6:C:1685:ASP:OD2	2.19	0.42
6:C:1888:ASP:O	6:C:1892:LYS:N	2.38	0.42
6:C:1901:HIS:C	6:C:1903:SER:N	2.73	0.42
6:C:2078:ASP:HB2	6:C:2135:ASN:ND2	2.24	0.42
6:C:2202:PRO:HA	6:C:2206:PRO:CD	2.50	0.42
6:C:2281:MET:CE	6:C:2286:PRO:HG2	2.49	0.42
6:C:2331:MET:HA	6:C:2335:ASN:OD1	2.20	0.42
6:C:2439:ILE:HD13	6:C:2440:TYR:CE1	2.55	0.42
6:C:2463:SER:HA	6:C:2470:ARG:HH21	1.82	0.42
6:C:2473:MET:O	6:C:2476:ILE:HG12	2.19	0.42
6:C:3040:TYR:HA	6:C:3043:TYR:CZ	2.54	0.42
6:C:3045:ILE:O	6:C:3048:LYS:HG2	2.19	0.42
6:C:3086:LEU:HD11	6:C:3102:TYR:CD1	2.54	0.42
6:C:3129:LEU:HD23	6:C:3129:LEU:HA	1.76	0.42
6:C:3155:VAL:CG1	6:C:3156:PRO:HD3	2.49	0.42
6:C:3280:TYR:HB2	6:C:3324:ARG:HD2	2.02	0.42
6:C:3313:SER:N	6:C:3315:TYR:HB2	2.28	0.42
6:C:3316:LEU:HD12	6:C:3399:PRO:HB3	2.01	0.42
6:C:3322:ALA:O	6:C:3392:ALA:HB1	2.20	0.42
6:C:3424:LEU:HD23	6:C:3425:ARG:HH12	1.85	0.42
6:C:3630:ARG:HA	6:C:3686:TRP:CE2	2.55	0.42
1:A:114:LYS:N	1:A:114:LYS:HD2	2.35	0.42
1:A:278:GLN:OE1	4:D:1:DG:H3'	2.20	0.42
1:A:338:LYS:HB3	1:A:406:ILE:O	2.20	0.42
1:A:365:SER:CB	1:A:434:LEU:HB2	2.50	0.42
1:A:380:THR:CG2	2:B:446:PRO:HD3	2.50	0.42
1:A:457:GLU:HG3	1:A:458:GLN:N	2.35	0.42
1:A:487:PHE:CD1	1:A:488:ARG:NH1	2.88	0.42
2:B:88:PHE:O	2:B:91:LEU:HB2	2.20	0.42
2:B:151:ILE:HG22	2:B:155:LYS:NZ	2.35	0.42
2:B:170:GLY:O	2:B:194:LEU:HD11	2.20	0.42
2:B:205:LEU:O	2:B:209:LYS:HG3	2.20	0.42
2:B:314:PHE:CB	2:B:321:VAL:HB	2.47	0.42
2:B:464:ALA:N	2:B:475:ASP:HA	2.35	0.42
6:C:147:PHE:CE2	6:C:148:LYS:HG3	2.55	0.42
6:C:184:VAL:O	6:C:190:ILE:HD11	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:315:ALA:O	6:C:318:SER:N	2.50	0.42
6:C:395:MET:HB2	6:C:413:PHE:HZ	1.84	0.42
6:C:460:ALA:O	6:C:463:LYS:HB3	2.19	0.42
6:C:532:ARG:HA	6:C:532:ARG:HD2	1.64	0.42
6:C:654:ILE:HG23	6:C:729:CYS:SG	2.59	0.42
6:C:714:VAL:O	6:C:718:MET:HE2	2.20	0.42
6:C:740:ILE:HD12	6:C:740:ILE:N	2.35	0.42
6:C:1102:GLU:O	6:C:1105:VAL:N	2.53	0.42
6:C:1119:LYS:HE2	6:C:1119:LYS:HB2	1.73	0.42
6:C:1129:ASP:HA	6:C:1132:ASP:CG	2.40	0.42
6:C:1356:TRP:HH2	6:C:1411:TYR:CD2	2.38	0.42
6:C:1400:VAL:CG1	6:C:1404:LYS:HE2	2.49	0.42
6:C:1707:LEU:HD23	6:C:1707:LEU:HA	1.85	0.42
6:C:1814:PHE:HA	6:C:1817:GLN:HB2	2.01	0.42
6:C:1884:LEU:HA	6:C:1887:ASP:CG	2.40	0.42
6:C:1905:ILE:O	6:C:1951:VAL:HG11	2.20	0.42
6:C:1975:LEU:HA	6:C:1976:LEU:HA	1.44	0.42
6:C:2083:LEU:HD22	6:C:2178:GLY:H	1.85	0.42
6:C:2562:LEU:O	6:C:2566:THR:HB	2.20	0.42
6:C:2813:PHE:HA	6:C:2816:ILE:CG2	2.50	0.42
6:C:2906:PRO:CG	6:C:2943:PHE:HB3	2.48	0.42
6:C:2977:ASN:CA	6:C:2980:ASP:HB2	2.49	0.42
6:C:3004:HIS:CE1	6:C:3042:PRO:HB2	2.55	0.42
6:C:3147:LYS:HA	6:C:3150:ASN:OD1	2.20	0.42
6:C:3425:ARG:HD3	6:C:3428:GLU:CD	2.39	0.42
6:C:3459:ASN:CG	6:C:3462:ARG:HE	2.22	0.42
6:C:3774:ILE:N	6:C:3774:ILE:HD12	2.35	0.42
6:C:3880:ALA:HB1	6:C:3969:ASN:HB2	2.01	0.42
6:C:3888:VAL:C	6:C:3891:SER:H	2.23	0.42
6:C:4016:PHE:HA	6:C:4019:LYS:CG	2.50	0.42
6:C:4055:ASN:HD21	6:C:4058:VAL:N	2.08	0.42
1:A:193:LEU:HD12	1:A:196:THR:HB	2.02	0.42
1:A:193:LEU:O	1:A:196:THR:HB	2.20	0.42
1:A:290:ARG:HB3	1:A:291:GLU:H	1.71	0.42
1:A:337:LEU:HA	2:B:489:ARG:NH2	2.35	0.42
1:A:338:LYS:HG2	1:A:407:PRO:HD3	2.02	0.42
1:A:374:LEU:O	2:B:540:ILE:HD11	2.20	0.42
2:B:53:GLU:OE1	2:B:125:LYS:HD2	2.20	0.42
2:B:133:GLU:HB2	2:B:135:PHE:CE1	2.55	0.42
2:B:152:HIS:HA	2:B:155:LYS:CG	2.49	0.42
2:B:159:ILE:HD13	2:B:159:ILE:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:202:LYS:HA	2:B:205:LEU:HB3	2.02	0.42
3:K:11:ALA:HA	3:K:14:ALA:HB3	2.01	0.42
4:D:-8:DT:C4	4:D:-7:DA:N6	2.88	0.42
4:D:7:DA:N6	5:E:28:DA:H61	2.18	0.42
6:C:87:LYS:HG2	6:C:133:LYS:CE	2.47	0.42
6:C:92:PHE:O	6:C:95:LYS:HB2	2.19	0.42
6:C:229:SER:O	6:C:232:CYS:HB2	2.20	0.42
6:C:241:ASP:HA	6:C:244:THR:OG1	2.19	0.42
6:C:384:MET:O	6:C:386:VAL:N	2.52	0.42
6:C:393:LYS:NZ	6:C:397:LEU:HD22	2.35	0.42
6:C:567:GLU:HB2	6:C:1799:GLU:OE1	2.20	0.42
6:C:592:GLU:HA	6:C:595:ASP:HB2	2.01	0.42
6:C:607:ASP:O	6:C:611:ASN:HB2	2.18	0.42
6:C:917:LEU:HD21	6:C:930:ALA:HB1	2.01	0.42
6:C:1010:LEU:HB2	6:C:1028:PHE:HE1	1.82	0.42
6:C:1356:TRP:HE1	6:C:1409:SER:HG	1.62	0.42
6:C:1412:LYS:O	6:C:1416:GLU:HG3	2.19	0.42
6:C:1695:LEU:HD22	6:C:1703:THR:OG1	2.20	0.42
6:C:1882:SER:C	6:C:1885:PRO:HD2	2.40	0.42
6:C:2002:LYS:HA	6:C:2005:ILE:CG1	2.49	0.42
6:C:2084:GLU:HG3	6:C:2181:GLY:HA2	2.01	0.42
6:C:2140:LEU:HA	6:C:2143:ARG:CD	2.48	0.42
6:C:2208:ASP:OD1	6:C:2212:ALA:N	2.41	0.42
6:C:2451:LEU:O	6:C:2454:LEU:HB2	2.20	0.42
6:C:2481:HIS:CE1	6:C:2499:PHE:O	2.72	0.42
6:C:2928:LYS:HZ3	6:C:2959:ALA:HB2	1.85	0.42
6:C:2936:TYR:HB2	6:C:2953:THR:CG2	2.50	0.42
6:C:2969:ALA:HA	6:C:2972:TYR:CE1	2.55	0.42
6:C:3009:LYS:O	6:C:3013:TYR:N	2.31	0.42
6:C:3085:GLU:CA	6:C:3088:LEU:HB2	2.46	0.42
6:C:3273:LEU:HA	6:C:3276:TRP:HD1	1.84	0.42
6:C:3425:ARG:HA	6:C:3428:GLU:CD	2.40	0.42
6:C:3465:PHE:N	6:C:3466:PRO:HD2	2.34	0.42
6:C:3467:ARG:NE	6:C:4003:ASP:OD2	2.53	0.42
6:C:3492:CYS:HB2	6:C:3527:GLN:HB3	2.02	0.42
6:C:3694:PHE:HB2	6:C:3697:ASN:HD22	1.84	0.42
6:C:4079:ALA:O	6:C:4082:ARG:HB2	2.20	0.42
6:C:4082:ARG:HB3	6:C:4091:ALA:HB2	2.00	0.42
1:A:61:ASP:OD1	1:A:65:GLN:NE2	2.53	0.42
1:A:113:ALA:O	1:A:116:ILE:HB	2.20	0.42
1:A:176:HIS:CE1	1:A:182:LYS:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:ARG:HH2	1:A:477:SER:HB2	1.85	0.42
1:A:247:ARG:HB3	1:A:484:GLN:NE2	2.34	0.42
1:A:256:LEU:HD21	5:E:38:DA:C4	2.54	0.42
1:A:315:ASP:N	1:A:315:ASP:OD1	2.51	0.42
1:A:358:LYS:O	2:B:411:HIS:CG	2.73	0.42
1:A:364:PRO:HB2	1:A:365:SER:O	2.20	0.42
1:A:448:PHE:HD1	2:B:416:TYR:CD2	2.37	0.42
1:A:486:HIS:HA	1:A:489:ASN:ND2	2.35	0.42
2:B:39:THR:O	2:B:42:VAL:HB	2.20	0.42
2:B:251:LEU:HD12	2:B:252:THR:N	2.35	0.42
2:B:496:HIS:CE1	2:B:503:GLU:HG3	2.45	0.42
5:E:22:DA:C4	5:E:23:DT:C6	3.07	0.42
6:C:47:SER:HB2	6:C:51:LEU:HG	2.02	0.42
6:C:224:LEU:CA	6:C:227:LEU:HB3	2.49	0.42
6:C:756:PHE:N	6:C:756:PHE:HD1	2.18	0.42
6:C:947:GLN:OE1	6:C:947:GLN:N	2.42	0.42
6:C:1071:ASN:ND2	6:C:3743:HIS:O	2.53	0.42
6:C:1113:LEU:HD21	6:C:1162:SER:O	2.20	0.42
6:C:1412:LYS:O	6:C:1415:LEU:CB	2.64	0.42
6:C:1897:ASN:O	6:C:1900:PHE:HB2	2.20	0.42
6:C:1995:GLU:O	6:C:1998:MET:HG2	2.20	0.42
6:C:2256:ILE:HA	6:C:2259:LYS:CD	2.49	0.42
6:C:2439:ILE:CG2	6:C:2440:TYR:CZ	3.02	0.42
6:C:2534:ASN:ND2	6:C:2537:ASP:HB2	2.32	0.42
6:C:2539:LEU:O	6:C:2542:LEU:HB3	2.20	0.42
6:C:2572:TYR:CE1	6:C:2790:LEU:HD23	2.54	0.42
6:C:2891:ARG:HG3	6:C:2892:LEU:HD23	2.02	0.42
6:C:2937:ASP:OD1	6:C:3975:LYS:HE3	2.20	0.42
6:C:3335:ARG:CG	6:C:3341:LEU:HG	2.50	0.42
6:C:3661:ASP:HA	6:C:3664:ASN:ND2	2.26	0.42
6:C:3872:ARG:HH21	6:C:3873:LYS:CE	2.19	0.42
6:C:3909:ALA:HA	6:C:3984:MET:CE	2.50	0.42
6:C:3964:THR:N	6:C:3967:PHE:CD2	2.88	0.42
6:C:3998:LEU:CD1	6:C:4002:MET:HG2	2.50	0.42
1:A:118:GLU:HG2	1:A:119:LEU:HG	2.01	0.41
1:A:278:GLN:HG3	4:D:2:DG:O5'	2.20	0.41
1:A:451:LYS:HE3	2:B:417:GLU:OE1	2.20	0.41
1:A:459:VAL:HG22	1:A:463:LYS:HG3	2.02	0.41
2:B:111:LEU:O	2:B:115:MET:HG3	2.20	0.41
2:B:355:PHE:O	2:B:425:PRO:HG3	2.20	0.41
2:B:512:ILE:O	2:B:516:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1:DG:N2	4:D:2:DG:C2	2.88	0.41
5:E:40:DT:H2'	5:E:41:DA:O4'	2.20	0.41
6:C:88:PHE:HA	6:C:91:ILE:HD11	2.02	0.41
6:C:188:GLU:O	6:C:191:ASN:HB2	2.20	0.41
6:C:490:ILE:HG21	6:C:530:LEU:HD11	2.03	0.41
6:C:652:GLU:OE1	6:C:722:LYS:NZ	2.38	0.41
6:C:993:HIS:HE1	6:C:2777:HIS:CD2	2.37	0.41
6:C:1163:LEU:HD22	6:C:1256:TRP:HD1	1.82	0.41
6:C:1352:SER:C	6:C:1354:GLU:N	2.73	0.41
6:C:1356:TRP:CH2	6:C:1410:PRO:HA	2.55	0.41
6:C:2187:VAL:HG13	6:C:2188:GLU:N	2.35	0.41
6:C:2260:PHE:CE1	6:C:2263:LYS:HG3	2.54	0.41
6:C:2313:LYS:HZ3	6:C:2314:GLU:CD	2.21	0.41
6:C:2477:LEU:HA	6:C:2480:ILE:HG22	2.02	0.41
6:C:2513:GLU:N	6:C:2518:GLN:OE1	2.52	0.41
6:C:2549:LYS:HD3	6:C:2554:PHE:CB	2.50	0.41
6:C:3064:PHE:HA	6:C:3067:LYS:CG	2.40	0.41
6:C:3080:LEU:HD13	6:C:3105:ASN:HB3	2.01	0.41
6:C:3493:TRP:CD1	6:C:3711:PRO:HA	2.55	0.41
6:C:3758:LEU:HD23	6:C:3761:ASP:HB2	2.02	0.41
6:C:3763:ARG:HB3	6:C:4005:PHE:CE1	2.55	0.41
6:C:3781:CYS:HA	6:C:3786:LEU:HD12	2.02	0.41
6:C:3844:THR:HB	6:C:3849:LYS:NZ	2.34	0.41
6:C:3901:ARG:HD2	6:C:3971:MET:HA	2.02	0.41
6:C:3950:THR:OG1	6:C:3957:GLU:O	2.31	0.41
6:C:4106:CYS:O	6:C:4107:LEU:C	2.58	0.41
1:A:34:GLY:O	1:A:35:ARG:HD3	2.20	0.41
1:A:74:LYS:CG	1:A:83:LEU:HD11	2.45	0.41
1:A:277:VAL:HG22	1:A:278:GLN:N	2.35	0.41
1:A:511:VAL:HG12	2:B:255:SER:HB3	2.01	0.41
2:B:165:LEU:H	2:B:226:SER:HA	1.83	0.41
2:B:191:SER:HB2	2:B:232:ARG:HH21	1.85	0.41
2:B:384:LEU:CA	2:B:389:MET:HB2	2.48	0.41
4:D:-12:DA:N1	5:E:48:DT:C2	2.88	0.41
6:C:100:ILE:HG12	6:C:104:SER:CA	2.50	0.41
6:C:637:LYS:O	6:C:641:PHE:HD2	2.03	0.41
6:C:904:VAL:O	6:C:906:PHE:CD2	2.73	0.41
6:C:987:LEU:HA	6:C:990:GLN:HG2	2.02	0.41
6:C:1304:HIS:HA	6:C:1307:ILE:CG1	2.50	0.41
6:C:1654:GLN:HE21	6:C:1673:THR:HA	1.85	0.41
6:C:1762:MET:HG3	6:C:1863:PHE:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1920:TYR:O	6:C:1924:THR:OG1	2.21	0.41
6:C:1938:ARG:O	6:C:1990:PHE:HE1	2.03	0.41
6:C:2115:GLU:HA	6:C:2154:GLU:HB2	2.02	0.41
6:C:2196:TRP:CB	6:C:2199:LEU:HB2	2.50	0.41
6:C:2413:PHE:HD1	6:C:2442:MET:HG2	1.86	0.41
6:C:2806:LYS:HA	6:C:2809:PHE:CE1	2.56	0.41
6:C:2806:LYS:HA	6:C:2809:PHE:CZ	2.56	0.41
6:C:2826:LEU:O	6:C:2829:LYS:HB2	2.20	0.41
6:C:2930:TYR:C	6:C:2933:ILE:H	2.23	0.41
6:C:2947:ILE:O	6:C:2951:GLN:HG3	2.21	0.41
6:C:3036:TYR:CE2	6:C:3040:TYR:CD2	3.08	0.41
6:C:3044:MET:HA	6:C:3047:SER:HB2	2.01	0.41
6:C:3274:VAL:O	6:C:3277:VAL:HG22	2.20	0.41
6:C:3316:LEU:HD11	6:C:3403:CYS:HB2	2.02	0.41
6:C:3732:LEU:HB2	6:C:4023:LYS:NZ	2.35	0.41
6:C:3756:GLU:O	6:C:3800:LEU:HA	2.20	0.41
6:C:3923:ARG:HA	6:C:3927:ASN:HD22	1.86	0.41
6:C:3947:GLY:HA3	6:C:4064:LEU:CD1	2.50	0.41
6:C:4106:CYS:SG	6:C:4107:LEU:N	2.94	0.41
1:A:432:PHE:O	1:A:434:LEU:HD12	2.20	0.41
2:B:151:ILE:HG23	2:B:215:LEU:HB2	2.02	0.41
2:B:206:GLU:OE2	2:B:209:LYS:NZ	2.32	0.41
2:B:283:THR:OG1	2:B:284:LEU:N	2.53	0.41
2:B:285:LYS:HB3	2:B:287:GLU:OE1	2.21	0.41
5:E:22:DA:C8	5:E:23:DT:H71	2.56	0.41
5:E:41:DA:N3	5:E:41:DA:H2'	2.36	0.41
6:C:27:ALA:N	6:C:77:GLU:OE1	2.35	0.41
6:C:135:LEU:HB3	6:C:176:GLU:OE2	2.19	0.41
6:C:465:PHE:CD1	6:C:468:LEU:HD12	2.55	0.41
6:C:597:ALA:HB2	6:C:1080:LEU:HD11	2.02	0.41
6:C:637:LYS:HA	6:C:641:PHE:HB3	2.01	0.41
6:C:658:THR:HA	6:C:733:LEU:CD2	2.47	0.41
6:C:716:VAL:O	6:C:717:LYS:C	2.57	0.41
6:C:779:TYR:HA	6:C:782:ARG:HB2	2.02	0.41
6:C:1147:LYS:HZ1	6:C:1151:ARG:HH12	1.68	0.41
6:C:1346:THR:HA	6:C:1349:LEU:HB2	2.02	0.41
6:C:1387:GLY:O	6:C:1392:MET:N	2.52	0.41
6:C:1604:SER:O	6:C:1607:GLU:HB2	2.20	0.41
6:C:1684:LEU:HD23	6:C:1687:HIS:ND1	2.34	0.41
6:C:1715:GLU:HB3	6:C:1746:PHE:HE2	1.85	0.41
6:C:1762:MET:O	6:C:1763:THR:OG1	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2072:ARG:HG2	6:C:2075:THR:HG23	2.02	0.41
6:C:2457:PRO:HA	6:C:2460:GLU:CG	2.49	0.41
6:C:2894:GLU:CD	6:C:3973:PRO:HB2	2.40	0.41
6:C:3120:LEU:HD13	6:C:3125:ARG:NE	2.34	0.41
6:C:3179:TRP:CG	6:C:3249:GLN:NE2	2.83	0.41
6:C:3545:THR:O	6:C:3552:LYS:HB2	2.20	0.41
6:C:3579:SER:HB3	6:C:3736:LYS:HG3	2.01	0.41
6:C:3830:SER:O	6:C:3833:ARG:HG3	2.20	0.41
6:C:3873:LYS:CA	6:C:3877:LYS:HZ3	2.33	0.41
6:C:3883:LEU:HB2	6:C:3970:LEU:HB2	2.02	0.41
6:C:3884:LYS:N	6:C:3970:LEU:HD13	2.35	0.41
6:C:4106:CYS:C	6:C:4110:GLN:HG3	2.41	0.41
1:A:49:PHE:CE1	1:A:137:HIS:HD2	2.38	0.41
1:A:203:MET:HG2	1:A:237:SER:O	2.21	0.41
1:A:255:ALA:HB2	2:B:433:TYR:OH	2.20	0.41
1:A:482:VAL:HG22	2:B:333:TYR:HE2	1.85	0.41
2:B:107:PHE:CE2	2:B:140:SER:HB2	2.47	0.41
2:B:108:LEU:HD23	2:B:111:LEU:HD22	2.02	0.41
2:B:339:CYS:H	2:B:396:ALA:HB3	1.84	0.41
4:D:-12:DA:H2'	4:D:-11:DA:C8	2.55	0.41
6:C:171:LEU:HA	6:C:174:VAL:HG23	2.01	0.41
6:C:376:ILE:HG13	6:C:381:VAL:H	1.86	0.41
6:C:482:VAL:HG13	6:C:485:GLN:OE1	2.20	0.41
6:C:532:ARG:HD2	6:C:535:LEU:HB2	2.01	0.41
6:C:738:HIS:NE2	6:C:745:VAL:HG13	2.36	0.41
6:C:1346:THR:HA	6:C:1349:LEU:HD12	2.01	0.41
6:C:1378:GLU:HG3	6:C:1382:ILE:HD11	2.01	0.41
6:C:1486:LEU:HD21	6:C:1492:ALA:HB2	2.02	0.41
6:C:1964:GLY:O	6:C:1967:PHE:HB3	2.21	0.41
6:C:2099:ALA:HA	6:C:2102:LYS:HE2	2.03	0.41
6:C:2167:PRO:HG2	6:C:2215:LEU:HD11	2.03	0.41
6:C:2246:LYS:HG3	6:C:2246:LYS:HZ3	1.62	0.41
6:C:2348:GLN:HG2	6:C:2352:HIS:HE2	1.84	0.41
6:C:2382:VAL:HA	6:C:2385:LEU:CB	2.26	0.41
6:C:2547:SER:CB	6:C:2842:ARG:HH21	2.33	0.41
6:C:2940:ARG:HB3	6:C:3975:LYS:NZ	2.36	0.41
6:C:3011:LEU:HG	6:C:3047:SER:HA	2.02	0.41
6:C:3037:GLN:HA	6:C:3040:TYR:CE2	2.55	0.41
6:C:3268:THR:H	6:C:3271:ASP:CB	2.31	0.41
6:C:3283:LEU:O	6:C:3285:HIS:N	2.54	0.41
6:C:3317:SER:C	6:C:3319:ASN:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3462:ARG:NH1	6:C:3498:TRP:HB3	2.35	0.41
6:C:3479:THR:HA	6:C:3483:MET:HE3	2.02	0.41
6:C:3490:VAL:HG23	6:C:3494:GLN:HB2	2.02	0.41
6:C:3621:LYS:HA	6:C:3629:ARG:HH11	1.85	0.41
6:C:3789:ARG:HD2	6:C:3790:THR:H	1.85	0.41
6:C:3931:ALA:HB3	6:C:3934:THR:HG22	2.02	0.41
6:C:4121:TRP:CG	6:C:4122:GLU:N	2.88	0.41
1:A:130:ARG:O	1:A:134:MET:HE2	2.20	0.41
1:A:404:ARG:HD2	5:E:36:DA:OP2	2.21	0.41
1:A:468:LYS:N	1:A:468:LYS:HD2	2.36	0.41
2:B:122:THR:HG21	2:B:130:ARG:HD3	2.02	0.41
2:B:186:GLY:O	2:B:514:ASN:HB3	2.21	0.41
2:B:326:VAL:O	2:B:330:GLN:HG2	2.20	0.41
2:B:390:VAL:HG12	2:B:409:PHE:CE1	2.55	0.41
2:B:510:GLN:O	2:B:513:TRP:N	2.53	0.41
5:E:25:DG:N1	5:E:26:DC:C4	2.88	0.41
5:E:40:DT:H2'	5:E:41:DA:H8	1.81	0.41
6:C:277:LEU:CD1	6:C:279:ALA:HB3	2.50	0.41
6:C:316:LEU:HD21	6:C:363:ILE:HG23	2.02	0.41
6:C:394:GLN:O	6:C:398:THR:OG1	2.19	0.41
6:C:421:LEU:HD23	6:C:421:LEU:HA	1.79	0.41
6:C:530:LEU:H	6:C:530:LEU:CD1	2.33	0.41
6:C:615:ALA:O	6:C:616:LYS:C	2.56	0.41
6:C:973:ALA:CB	6:C:981:ARG:H	2.31	0.41
6:C:1238:GLN:NE2	6:C:1297:PHE:O	2.53	0.41
6:C:1239:PRO:HB2	6:C:1243:TYR:CE2	2.56	0.41
6:C:1557:GLU:HA	6:C:1561:SER:HB2	2.03	0.41
6:C:1722:PHE:HA	6:C:1725:GLN:OE1	2.21	0.41
6:C:2001:LYS:CD	6:C:2002:LYS:HE2	2.50	0.41
6:C:2121:ASP:C	6:C:2127:LYS:HB2	2.41	0.41
6:C:2144:LEU:HA	6:C:2144:LEU:HD23	1.66	0.41
6:C:2216:LEU:O	6:C:2220:MET:HG3	2.20	0.41
6:C:2323:LEU:HA	6:C:2326:ILE:HB	2.00	0.41
6:C:2379:MET:CA	6:C:2382:VAL:HG22	2.47	0.41
6:C:2424:MET:CG	6:C:2436:LEU:HD22	2.51	0.41
6:C:2481:HIS:CD2	6:C:2485:ARG:NH1	2.88	0.41
6:C:2853:PRO:HA	6:C:2856:SER:CB	2.49	0.41
6:C:3010:SER:O	6:C:3014:CYS:HB2	2.20	0.41
6:C:3062:LEU:HD12	6:C:3065:ILE:CG2	2.50	0.41
6:C:3166:ASN:O	6:C:3186:ARG:NH2	2.34	0.41
6:C:3173:MET:CG	6:C:3174:ASP:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3191:SER:OG	6:C:3192:LYS:N	2.54	0.41
6:C:3246:ALA:O	6:C:3249:GLN:N	2.53	0.41
6:C:3250:ASN:OD1	6:C:3285:HIS:NE2	2.54	0.41
6:C:3264:LYS:HE2	6:C:3264:LYS:HB3	1.86	0.41
6:C:3339:ASN:CA	6:C:3342:SER:HB2	2.50	0.41
6:C:3386:SER:HA	6:C:3419:PHE:CE2	2.55	0.41
6:C:3447:VAL:HA	6:C:3465:PHE:CE1	2.55	0.41
6:C:3463:LEU:HD23	6:C:3463:LEU:HA	1.76	0.41
6:C:3630:ARG:HA	6:C:3686:TRP:NE1	2.36	0.41
6:C:3690:PHE:CD1	6:C:3690:PHE:C	2.93	0.41
6:C:4074:PHE:O	6:C:4077:TYR:N	2.53	0.41
1:A:72:ILE:O	1:A:75:ILE:HB	2.21	0.41
1:A:167:MET:HE1	1:A:203:MET:N	2.22	0.41
1:A:256:LEU:HD11	5:E:38:DA:N3	2.36	0.41
1:A:263:LEU:HD21	1:A:381:LEU:HD21	2.02	0.41
1:A:470:ARG:NE	2:B:347:LYS:HG3	2.36	0.41
1:A:525:PHE:HA	1:A:528:LEU:HD12	2.02	0.41
2:B:133:GLU:HB2	2:B:135:PHE:CZ	2.56	0.41
2:B:262:ALA:HB3	2:B:365:PHE:O	2.20	0.41
2:B:400:ARG:HG2	4:D:10:DG:H1'	2.02	0.41
4:D:9:DG:C6	5:E:27:DC:C4	3.08	0.41
5:E:19:DC:H1'	5:E:20:DT:H1'	2.02	0.41
5:E:23:DT:C2	5:E:24:DG:C8	3.09	0.41
6:C:66:LEU:HA	6:C:69:VAL:HB	2.03	0.41
6:C:151:GLU:O	6:C:155:LYS:HG3	2.21	0.41
6:C:173:LYS:HA	6:C:176:GLU:CB	2.31	0.41
6:C:321:LYS:HE3	6:C:325:ASN:ND2	2.36	0.41
6:C:325:ASN:O	6:C:329:LYS:HG3	2.21	0.41
6:C:376:ILE:HA	6:C:379:LYS:O	2.20	0.41
6:C:559:SER:O	6:C:562:HIS:N	2.53	0.41
6:C:850:GLU:HB3	6:C:854:ARG:CZ	2.50	0.41
6:C:908:ASP:OD1	6:C:912:PRO:HD2	2.20	0.41
6:C:1076:LEU:C	6:C:1127:CYS:SG	2.99	0.41
6:C:1115:HIS:HD2	6:C:1119:LYS:HG2	1.85	0.41
6:C:1133:HIS:CD2	6:C:1136:ARG:HH22	2.37	0.41
6:C:1216:GLY:HA2	6:C:1219:PHE:HD2	1.85	0.41
6:C:1498:GLN:O	6:C:1501:PRO:HD2	2.20	0.41
6:C:1713:VAL:HA	6:C:1716:GLN:OE1	2.21	0.41
6:C:1735:ARG:O	6:C:1736:PHE:HB2	2.21	0.41
6:C:1985:LYS:HD2	6:C:2037:SER:HA	2.03	0.41
6:C:2000:ARG:HD3	6:C:2051:SER:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2148:LYS:NZ	6:C:2192:THR:HG21	2.36	0.41
6:C:2938:VAL:O	6:C:2942:ILE:N	2.52	0.41
6:C:3010:SER:HA	6:C:3013:TYR:HB3	2.03	0.41
6:C:3021:SER:HA	6:C:3024:PRO:HG3	2.02	0.41
6:C:3102:TYR:CD1	6:C:3105:ASN:ND2	2.89	0.41
6:C:3293:CYS:O	6:C:3335:ARG:NE	2.54	0.41
6:C:3298:LEU:O	6:C:3299:THR:C	2.58	0.41
6:C:3503:VAL:HG21	6:C:3535:ILE:HB	2.03	0.41
6:C:3536:SER:O	6:C:3540:TYR:N	2.53	0.41
6:C:3581:PRO:CG	6:C:3633:ILE:HG12	2.51	0.41
6:C:3723:ASP:OD1	6:C:3741:ARG:HG3	2.21	0.41
6:C:3907:SER:O	6:C:3909:ALA:N	2.54	0.41
6:C:3923:ARG:NH2	6:C:3941:ASP:N	2.67	0.41
6:C:3981:TYR:O	6:C:3984:MET:N	2.54	0.41
6:C:4051:LEU:HD13	6:C:4060:THR:OG1	2.20	0.41
1:A:194:ARG:HE	1:A:222:SER:HA	1.84	0.41
1:A:338:LYS:HE2	1:A:339:ARG:HH12	1.84	0.41
1:A:352:PRO:HG2	1:A:355:LEU:HD12	2.02	0.41
1:A:363:ARG:N	2:B:359:ASN:HA	2.35	0.41
2:B:153:SER:O	2:B:156:LYS:HB2	2.21	0.41
2:B:153:SER:HA	2:B:156:LYS:NZ	2.35	0.41
2:B:529:PRO:O	2:B:533:ILE:HG12	2.20	0.41
4:D:16:DG:H1'	4:D:17:DG:C2	2.56	0.41
5:E:46:DT:H2'	5:E:47:DT:C5	2.54	0.41
6:C:175:TYR:CE1	6:C:200:PHE:CD1	3.09	0.41
6:C:325:ASN:O	6:C:328:ALA:HB3	2.21	0.41
6:C:346:TYR:HA	6:C:349:ILE:CG1	2.50	0.41
6:C:375:VAL:HG11	6:C:379:LYS:HE3	2.03	0.41
6:C:401:ASP:OD1	6:C:401:ASP:N	2.53	0.41
6:C:474:VAL:HG23	6:C:475:LEU:N	2.34	0.41
6:C:484:HIS:CE1	6:C:556:SER:N	2.89	0.41
6:C:704:PHE:HA	6:C:707:PHE:HB3	2.02	0.41
6:C:719:LYS:HG2	6:C:754:MET:HG2	2.01	0.41
6:C:724:GLU:O	6:C:728:SER:HB2	2.20	0.41
6:C:789:TYR:HD1	6:C:793:LEU:HD12	1.84	0.41
6:C:938:VAL:HG22	6:C:962:TYR:CZ	2.56	0.41
6:C:991:LEU:HG	6:C:995:PHE:HE2	1.85	0.41
6:C:1157:PHE:O	6:C:1160:SER:HB2	2.21	0.41
6:C:1169:VAL:O	6:C:1172:LEU:HB2	2.21	0.41
6:C:1471:GLN:O	6:C:1475:LEU:HB2	2.21	0.41
6:C:1758:LEU:CB	6:C:1761:LEU:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2241:LEU:HG	6:C:2241:LEU:H	1.40	0.41
6:C:2274:ILE:O	6:C:2275:GLN:C	2.57	0.41
6:C:2286:PRO:HB2	6:C:2290:PRO:HD3	2.03	0.41
6:C:2363:CYS:O	6:C:2367:VAL:HG23	2.21	0.41
6:C:2396:LEU:O	6:C:2397:CYS:C	2.59	0.41
6:C:2481:HIS:CG	6:C:2506:LEU:HD11	2.56	0.41
6:C:2857:CYS:HA	6:C:2860:ASP:OD2	2.20	0.41
6:C:2887:PRO:O	6:C:2890:ILE:CB	2.53	0.41
6:C:2927:ALA:O	6:C:2931:ARG:HB3	2.21	0.41
6:C:2934:GLY:HA2	6:C:2937:ASP:HB2	2.02	0.41
6:C:3077:ILE:O	6:C:3081:HIS:CD2	2.74	0.41
6:C:3254:LEU:HA	6:C:3257:LYS:HB3	2.03	0.41
6:C:3272:TRP:O	6:C:3273:LEU:C	2.59	0.41
6:C:3321:LEU:HD23	6:C:3321:LEU:HA	1.90	0.41
6:C:3505:LEU:HD12	6:C:3509:ASP:CB	2.49	0.41
6:C:3530:VAL:HG13	6:C:3531:TYR:H	1.85	0.41
6:C:3568:ILE:HA	6:C:3571:PHE:HB3	2.02	0.41
6:C:3613:MET:O	6:C:3616:ALA:N	2.54	0.41
6:C:3631:LYS:HA	6:C:3631:LYS:HD3	1.86	0.41
6:C:3652:LEU:CD2	6:C:3653:ARG:HH12	2.34	0.41
6:C:3923:ARG:NH1	6:C:3941:ASP:HB2	2.36	0.41
6:C:3982:SER:O	6:C:3986:HIS:ND1	2.54	0.41
6:C:4113:ASP:HA	6:C:4114:PRO:HD2	1.94	0.41
1:A:41:LEU:HD22	1:A:150:CYS:SG	2.61	0.41
1:A:76:ILE:HG12	1:A:487:PHE:CE1	2.56	0.41
1:A:130:ARG:O	1:A:134:MET:CB	2.66	0.41
1:A:420:LEU:HB2	2:B:439:LYS:NZ	2.35	0.41
2:B:99:GLN:HG2	2:B:101:GLY:H	1.86	0.41
2:B:134:ILE:HB	2:B:163:PHE:CE1	2.55	0.41
2:B:251:LEU:HD11	2:B:342:VAL:CG2	2.44	0.41
4:D:15:DG:C2	4:D:16:DG:N1	2.89	0.41
5:E:35:DC:N3	5:E:36:DA:C5	2.89	0.41
5:E:44:DA:C2'	5:E:45:DG:O4'	2.68	0.41
6:C:300:TRP:CZ3	6:C:301:CYS:HB2	2.55	0.41
6:C:435:LEU:HD11	6:C:475:LEU:CD2	2.50	0.41
6:C:437:HIS:ND1	6:C:1812:LEU:HA	2.36	0.41
6:C:579:LEU:HB2	6:C:601:TRP:HH2	1.85	0.41
6:C:1002:GLU:HA	6:C:1005:ASP:HB2	2.02	0.41
6:C:1013:ILE:HB	6:C:1028:PHE:CD1	2.56	0.41
6:C:1025:LEU:H	6:C:1025:LEU:HG	1.46	0.41
6:C:1141:LYS:HA	6:C:1146:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1282:LEU:O	6:C:1287:GLN:HB2	2.20	0.41
6:C:1715:GLU:H	6:C:1715:GLU:CD	2.21	0.41
6:C:2117:SER:CB	6:C:2158:ARG:H	2.27	0.41
6:C:2146:LEU:HB3	6:C:2149:LEU:HD12	2.02	0.41
6:C:2185:MET:HG2	6:C:2189:ILE:HG13	2.03	0.41
6:C:2341:LEU:O	6:C:2345:VAL:HG23	2.21	0.41
6:C:2435:CYS:SG	6:C:2436:LEU:HG	2.61	0.41
6:C:2452:ARG:HA	6:C:2455:LEU:HD12	2.03	0.41
6:C:2507:ILE:HG13	6:C:2510:LEU:HB3	2.03	0.41
6:C:2872:ASP:OD1	6:C:2877:SER:N	2.54	0.41
6:C:3098:ARG:O	6:C:3102:TYR:CD2	2.74	0.41
6:C:3190:LEU:O	6:C:3193:ILE:HB	2.20	0.41
6:C:3632:PHE:HE2	6:C:3736:LYS:HZ1	1.68	0.41
6:C:3704:GLN:HE21	6:C:3802:LEU:HD22	1.86	0.41
6:C:3820:MET:HB3	6:C:3829:LEU:HD22	2.03	0.41
6:C:3928:PHE:HA	6:C:3938:ILE:O	2.21	0.41
1:A:74:LYS:HD2	1:A:79:ASP:HB2	2.03	0.41
1:A:76:ILE:HG23	1:A:487:PHE:CE1	2.56	0.41
1:A:90:THR:CG2	1:A:137:HIS:HA	2.50	0.41
1:A:95:ASN:OD1	1:A:95:ASN:C	2.59	0.41
1:A:112:GLY:O	1:A:116:ILE:N	2.42	0.41
1:A:189:LYS:O	1:A:192:ASP:HB2	2.20	0.41
1:A:254:ARG:NH1	1:A:275:ASN:OD1	2.42	0.41
1:A:277:VAL:HB	2:B:429:ASP:O	2.21	0.41
1:A:321:ILE:H	2:B:274:LYS:NZ	2.03	0.41
2:B:246:HIS:HE1	2:B:248:PRO:HA	1.86	0.41
2:B:262:ALA:HB1	2:B:264:TYR:CZ	2.56	0.41
2:B:333:TYR:CG	2:B:334:LYS:N	2.89	0.41
2:B:521:GLU:HG2	2:B:522:VAL:N	2.34	0.41
4:D:15:DG:N2	4:D:16:DG:H1	2.19	0.41
5:E:30:DA:C6	5:E:31:DA:C5	3.08	0.41
5:E:31:DA:C6	5:E:32:DT:C4	3.09	0.41
6:C:78:PHE:HD1	6:C:81:CYS:HG	1.66	0.41
6:C:138:PHE:O	6:C:142:ARG:HG3	2.21	0.41
6:C:178:LEU:HD23	6:C:178:LEU:HA	1.87	0.41
6:C:445:SER:HG	6:C:1821:ASP:CG	2.23	0.41
6:C:450:SER:O	6:C:454:GLN:HG3	2.21	0.41
6:C:468:LEU:O	6:C:471:LYS:HB3	2.20	0.41
6:C:631:ARG:NH2	6:C:668:LYS:HD3	2.35	0.41
6:C:901:MET:HB2	6:C:2819:GLU:CD	2.41	0.41
6:C:1066:LEU:O	6:C:1075:ARG:NH2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1134:LEU:O	6:C:1138:ILE:HD12	2.20	0.41
6:C:1170:LYS:HA	6:C:1267:TYR:CZ	2.55	0.41
6:C:1238:GLN:HE22	6:C:1297:PHE:HB3	1.85	0.41
6:C:1358:LEU:HD22	6:C:1361:LYS:CE	2.48	0.41
6:C:1386:ILE:O	6:C:1389:VAL:HG22	2.20	0.41
6:C:1572:LEU:HD21	6:C:1603:GLN:HE21	1.86	0.41
6:C:1632:TRP:CD1	6:C:1635:LYS:NZ	2.89	0.41
6:C:1638:PRO:C	6:C:1641:THR:H	2.24	0.41
6:C:1744:LYS:HD3	6:C:1883:ARG:NH2	2.33	0.41
6:C:1894:SER:HB2	6:C:1896:ILE:HG12	2.03	0.41
6:C:1916:ILE:HA	6:C:1919:CYS:HB2	2.03	0.41
6:C:2049:VAL:O	6:C:2052:TYR:HB2	2.21	0.41
6:C:2077:HIS:ND1	6:C:2138:VAL:HB	2.36	0.41
6:C:2094:MET:C	6:C:2098:THR:HG23	2.41	0.41
6:C:2132:LYS:HB3	6:C:2132:LYS:HE2	1.87	0.41
6:C:2148:LYS:HG2	6:C:2156:VAL:HG11	2.01	0.41
6:C:2156:VAL:HG23	6:C:2160:TYR:CE1	2.55	0.41
6:C:2239:LYS:HZ1	6:C:2275:GLN:HB3	1.86	0.41
6:C:2256:ILE:HG13	6:C:2259:LYS:HZ3	1.86	0.41
6:C:2368:THR:O	6:C:2371:PHE:HB3	2.21	0.41
6:C:2388:LYS:O	6:C:2391:GLY:N	2.54	0.41
6:C:2423:VAL:O	6:C:2426:HIS:N	2.25	0.41
6:C:2449:VAL:O	6:C:2450:GLU:C	2.58	0.41
6:C:2457:PRO:HA	6:C:2460:GLU:HB2	2.03	0.41
6:C:2817:LEU:HD13	6:C:2864:GLN:CD	2.41	0.41
6:C:2917:PRO:HB2	6:C:2918:PRO:CD	2.51	0.41
6:C:2931:ARG:HB3	6:C:2931:ARG:CZ	2.50	0.41
6:C:3004:HIS:CE1	6:C:3043:TYR:CD1	3.07	0.41
6:C:3141:PHE:HZ	6:C:3192:LYS:HB3	1.85	0.41
6:C:3166:ASN:CB	6:C:3186:ARG:HH12	2.32	0.41
6:C:3309:GLU:OE2	6:C:3318:LYS:HA	2.21	0.41
6:C:3357:ARG:HH11	6:C:3380:ARG:HH22	1.69	0.41
6:C:3390:GLN:O	6:C:3393:GLU:HB3	2.21	0.41
6:C:3487:ILE:HG21	6:C:3495:PHE:CB	2.51	0.41
6:C:3525:TYR:OH	6:C:3562:LEU:HD22	2.21	0.41
6:C:3630:ARG:HG2	6:C:3686:TRP:CZ3	2.56	0.41
6:C:3873:LYS:O	6:C:3877:LYS:HG2	2.21	0.41
6:C:3875:GLU:HG2	6:C:4127:TRP:O	2.21	0.41
6:C:4073:ALA:CB	6:C:4119:ARG:HH22	2.33	0.41
6:C:4100:GLU:O	6:C:4103:GLN:N	2.54	0.41
1:A:151:ALA:O	1:A:154:PHE:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:LYS:NZ	1:A:208:PRO:HA	2.36	0.41
1:A:354:VAL:HA	1:A:357:LYS:HZ3	1.86	0.41
1:A:388:LYS:O	1:A:391:GLU:HB2	2.21	0.41
1:A:404:ARG:HD2	5:E:36:DA:P	2.61	0.41
1:A:416:GLN:HA	1:A:433:GLN:NE2	2.34	0.41
1:A:454:ALA:HB2	2:B:375:VAL:O	2.21	0.41
1:A:529:VAL:HG23	1:A:530:TYR:HD2	1.84	0.41
2:B:223:GLU:HA	2:B:225:TYR:CE2	2.56	0.41
5:E:26:DC:O3'	5:E:27:DC:H6	2.04	0.41
5:E:46:DT:C2'	5:E:47:DT:H71	2.51	0.41
6:C:115:TYR:OH	6:C:177:LEU:HD11	2.21	0.41
6:C:139:ARG:HA	6:C:142:ARG:NE	2.34	0.41
6:C:161:ALA:C	6:C:163:LYS:H	2.24	0.41
6:C:203:GLU:C	6:C:206:THR:HG1	2.21	0.41
6:C:222:GLY:O	6:C:225:LYS:HB3	2.21	0.41
6:C:278:HIS:C	6:C:281:GLN:H	2.25	0.41
6:C:282:PHE:CD1	6:C:283:SER:N	2.89	0.41
6:C:326:MET:C	6:C:330:ASN:HD22	2.23	0.41
6:C:381:VAL:O	6:C:384:MET:HB2	2.21	0.41
6:C:530:LEU:H	6:C:530:LEU:HD12	1.86	0.41
6:C:750:PRO:HA	6:C:753:GLN:CB	2.44	0.41
6:C:913:ARG:CZ	6:C:929:ALA:O	2.69	0.41
6:C:1059:LEU:O	6:C:1062:ARG:HG2	2.21	0.41
6:C:1358:LEU:O	6:C:1361:LYS:HB3	2.20	0.41
6:C:1362:ASP:O	6:C:1365:ASN:ND2	2.54	0.41
6:C:1630:ASP:HA	6:C:1633:TRP:CZ3	2.55	0.41
6:C:2235:LEU:O	6:C:2235:LEU:HD12	2.21	0.41
6:C:2348:GLN:HG2	6:C:2352:HIS:HE1	1.80	0.41
6:C:2362:VAL:HG23	6:C:2363:CYS:N	2.36	0.41
6:C:2470:ARG:HB3	6:C:2474:TYR:CD2	2.56	0.41
6:C:2540:LEU:O	6:C:2543:ASN:ND2	2.40	0.41
6:C:3072:GLU:HA	6:C:3079:GLU:OE1	2.21	0.41
6:C:3307:LEU:HD11	6:C:3311:ASN:OD1	2.21	0.41
6:C:3610:TYR:HE2	6:C:3655:LYS:HE3	1.86	0.41
6:C:3747:GLU:N	6:C:3747:GLU:OE1	2.54	0.41
6:C:3793:VAL:HA	6:C:3803:ILE:HA	2.02	0.41
6:C:3875:GLU:HG2	6:C:4128:MET:HA	2.03	0.41
6:C:3876:SER:OG	6:C:3965:ARG:HG2	2.21	0.41
1:A:220:ILE:HD12	1:A:220:ILE:H	1.86	0.40
1:A:392:LYS:HB3	1:A:392:LYS:HE2	1.88	0.40
2:B:106:ASP:OD2	2:B:143:SER:OG	2.23	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:303:THR:HG1	2:B:304:GLU:H	1.68	0.40
2:B:406:GLY:HA2	2:B:423:GLN:OE1	2.20	0.40
2:B:505:LEU:HD21	2:B:508:ILE:HG23	2.03	0.40
2:B:524:THR:HA	2:B:527:GLN:CG	2.42	0.40
5:E:30:DA:C5	5:E:31:DA:C5	3.09	0.40
6:C:11:SER:O	6:C:15:LEU:CB	2.57	0.40
6:C:437:HIS:H	6:C:1812:LEU:HD22	1.87	0.40
6:C:482:VAL:O	6:C:485:GLN:N	2.54	0.40
6:C:555:SER:O	6:C:559:SER:OG	2.18	0.40
6:C:625:ASN:HB3	6:C:659:ARG:NH2	2.28	0.40
6:C:637:LYS:HG3	6:C:641:PHE:CD2	2.56	0.40
6:C:731:THR:O	6:C:734:LEU:CA	2.69	0.40
6:C:766:ALA:HB1	6:C:768:VAL:HG23	2.01	0.40
6:C:767:GLU:O	6:C:770:LEU:HB2	2.21	0.40
6:C:886:TRP:CE3	6:C:954:GLY:HA3	2.56	0.40
6:C:917:LEU:CD2	6:C:927:LYS:HZ2	2.34	0.40
6:C:944:LYS:NZ	6:C:2576:MET:SD	2.93	0.40
6:C:960:GLN:O	6:C:963:LYS:HB2	2.21	0.40
6:C:1154:PRO:O	6:C:1158:PRO:HD2	2.21	0.40
6:C:1875:LYS:HD2	6:C:1903:SER:CA	2.47	0.40
6:C:2073:ASP:O	6:C:2076:VAL:HG22	2.20	0.40
6:C:2108:LEU:HD21	6:C:2120:ARG:HD3	2.03	0.40
6:C:2206:PRO:C	6:C:2207:LYS:HD2	2.41	0.40
6:C:2240:THR:O	6:C:2241:LEU:C	2.59	0.40
6:C:2401:VAL:O	6:C:2405:VAL:HG22	2.21	0.40
6:C:2442:MET:HE1	6:C:2446:LEU:HD12	2.02	0.40
6:C:2484:TYR:CE1	6:C:2498:ILE:HG21	2.56	0.40
6:C:2569:SER:O	6:C:2573:PRO:HG3	2.21	0.40
6:C:2826:LEU:HA	6:C:2826:LEU:HD23	1.93	0.40
6:C:2901:LEU:O	6:C:2903:ALA:N	2.54	0.40
6:C:2915:ARG:HB3	6:C:2938:VAL:HG21	2.03	0.40
6:C:3052:LEU:HG	6:C:3092:LEU:CD1	2.51	0.40
6:C:3066:ASP:O	6:C:3069:MET:HB2	2.21	0.40
6:C:3084:GLN:HB3	6:C:3087:SER:HB2	2.02	0.40
6:C:3106:GLY:C	6:C:3109:SER:HB3	2.42	0.40
6:C:3410:ILE:O	6:C:3414:MET:HB2	2.21	0.40
6:C:3459:ASN:HB3	6:C:3462:ARG:NE	2.35	0.40
6:C:3687:MET:O	6:C:3689:ASP:O	2.40	0.40
6:C:4058:VAL:HG12	6:C:4061:CYS:HB2	2.03	0.40
1:A:49:PHE:CE1	1:A:137:HIS:CD2	3.09	0.40
1:A:254:ARG:CZ	4:D:0:DT:O3'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:317:LYS:HD2	1:A:328:ILE:CG1	2.48	0.40
1:A:351:LYS:H	1:A:395:ALA:H	1.67	0.40
1:A:506:LEU:HD23	1:A:506:LEU:HA	1.89	0.40
2:B:270:GLU:CG	2:B:271:ARG:N	2.84	0.40
2:B:310:ILE:HG13	2:B:311:ILE:O	2.22	0.40
2:B:327:ASP:HA	2:B:330:GLN:HE21	1.86	0.40
3:K:12:ALA:O	3:K:15:ALA:HB3	2.21	0.40
4:D:-5:DT:H2'	4:D:-4:DA:O4'	2.21	0.40
4:D:4:DA:C2	5:E:33:DA:N3	2.89	0.40
4:D:6:DT:C4	4:D:7:DA:N6	2.89	0.40
4:D:11:DC:H2'	4:D:12:DC:C6	2.57	0.40
5:E:20:DT:H6	5:E:20:DT:H2'	1.64	0.40
6:C:62:ASP:HA	6:C:65:LEU:HD12	2.03	0.40
6:C:73:LEU:HB3	6:C:78:PHE:HD2	1.86	0.40
6:C:204:LEU:CD1	6:C:223:CYS:HB2	2.51	0.40
6:C:393:LYS:HZ1	6:C:1869:LYS:CE	2.34	0.40
6:C:481:THR:OG1	6:C:555:SER:HB3	2.22	0.40
6:C:575:ILE:HG13	6:C:578:LYS:CE	2.52	0.40
6:C:585:ILE:C	6:C:587:THR:H	2.24	0.40
6:C:657:SER:O	6:C:660:LEU:N	2.54	0.40
6:C:701:TYR:CD1	6:C:704:PHE:HE2	2.39	0.40
6:C:789:TYR:HA	6:C:792:ILE:CB	2.48	0.40
6:C:799:TYR:C	6:C:801:LYS:N	2.74	0.40
6:C:928:VAL:O	6:C:929:ALA:C	2.60	0.40
6:C:985:GLU:HB2	6:C:986:PRO:HD3	2.04	0.40
6:C:1010:LEU:O	6:C:1013:ILE:HB	2.21	0.40
6:C:1132:ASP:O	6:C:1171:TRP:CZ2	2.74	0.40
6:C:1163:LEU:HA	6:C:1256:TRP:CG	2.56	0.40
6:C:1752:LEU:HD22	6:C:1757:MET:SD	2.61	0.40
6:C:1876:ILE:HA	6:C:1907:GLU:HG3	2.02	0.40
6:C:2097:LEU:C	6:C:2100:LEU:HB3	2.41	0.40
6:C:2104:MET:O	6:C:2107:SER:HB2	2.21	0.40
6:C:2282:ALA:HB2	6:C:2321:GLU:OE2	2.21	0.40
6:C:2313:LYS:H	6:C:2313:LYS:HG2	1.58	0.40
6:C:2326:ILE:HG21	6:C:2326:ILE:HD13	1.73	0.40
6:C:2387:PRO:HD3	6:C:2404:ARG:NH1	2.35	0.40
6:C:2397:CYS:HB3	6:C:2432:GLN:HE22	1.87	0.40
6:C:2446:LEU:CB	6:C:2451:LEU:HD12	2.49	0.40
6:C:2482:ASP:HA	6:C:2485:ARG:HH21	1.86	0.40
6:C:2814:SER:O	6:C:2818:LYS:HB3	2.22	0.40
6:C:2962:ARG:HH21	6:C:3254:LEU:CG	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3143:SER:O	6:C:3146:SER:HB2	2.22	0.40
6:C:3256:MET:HG3	6:C:3260:LYS:NZ	2.36	0.40
6:C:3280:TYR:HD2	6:C:3324:ARG:HD2	1.85	0.40
6:C:3301:LEU:HD12	6:C:3304:VAL:HB	2.03	0.40
6:C:4021:LEU:HB2	6:C:4031:ILE:HD13	2.03	0.40
1:A:317:LYS:HG3	1:A:330:GLU:OE1	2.21	0.40
1:A:317:LYS:HD3	1:A:329:LEU:CA	2.51	0.40
1:A:358:LYS:O	2:B:411:HIS:CE1	2.75	0.40
1:A:376:ILE:HD12	2:B:444:TYR:CE1	2.56	0.40
1:A:379:SER:OG	1:A:380:THR:N	2.54	0.40
2:B:225:TYR:HE1	2:B:233:LYS:HE3	1.86	0.40
2:B:228:SER:OG	2:B:232:ARG:NH2	2.54	0.40
2:B:407:VAL:H	2:B:424:LEU:H	1.69	0.40
5:E:38:DA:C4	5:E:39:DA:C2	3.10	0.40
6:C:15:LEU:CB	6:C:38:LEU:HD11	2.51	0.40
6:C:172:GLU:HG3	6:C:173:LYS:N	2.37	0.40
6:C:265:TYR:CZ	6:C:304:THR:HG21	2.57	0.40
6:C:473:PRO:HA	6:C:476:ARG:CZ	2.52	0.40
6:C:1082:PHE:CE1	6:C:1086:TYR:HE2	2.39	0.40
6:C:1468:LEU:HD23	6:C:1471:GLN:OE1	2.21	0.40
6:C:1938:ARG:HB3	6:C:1990:PHE:CD1	2.56	0.40
6:C:1958:GLU:OE1	6:C:1961:PHE:HB3	2.22	0.40
6:C:2214:ARG:HA	6:C:2217:ASN:ND2	2.35	0.40
6:C:2345:VAL:HA	6:C:2348:GLN:OE1	2.21	0.40
6:C:2512:ASP:CB	6:C:2518:GLN:HB2	2.52	0.40
6:C:2806:LYS:C	6:C:2808:LEU:N	2.74	0.40
6:C:2823:PHE:HD2	6:C:2829:LYS:NZ	2.20	0.40
6:C:3044:MET:HA	6:C:3047:SER:CB	2.51	0.40
6:C:3326:GLN:HE22	6:C:3393:GLU:HB2	1.86	0.40
6:C:3329:LEU:O	6:C:3333:THR:CB	2.70	0.40
6:C:3464:LYS:HA	6:C:3467:ARG:NH2	2.36	0.40
6:C:3630:ARG:HG2	6:C:3686:TRP:CH2	2.56	0.40
6:C:3720:ALA:HB2	6:C:3743:HIS:HB2	2.02	0.40
6:C:3723:ASP:HB2	6:C:3739:ILE:HG21	2.04	0.40
6:C:3779:SER:O	6:C:3782:SER:N	2.54	0.40
6:C:3863:ASN:HA	6:C:3866:GLU:CG	2.51	0.40
1:A:35:ARG:HG3	1:A:80:ARG:CZ	2.51	0.40
1:A:144:SER:HB3	1:A:189:LYS:HB3	2.03	0.40
1:A:355:LEU:HD23	1:A:355:LEU:O	2.22	0.40
1:A:451:LYS:HE2	1:A:453:MET:SD	2.61	0.40
1:A:471:PHE:CE1	1:A:473:TYR:HD1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:247:TRP:CZ2	2:B:398:ASP:HB2	2.57	0.40
2:B:315:ARG:HA	2:B:319:ASP:O	2.21	0.40
2:B:491:PHE:CD1	2:B:494:LEU:HD12	2.52	0.40
6:C:207:GLN:HG3	6:C:215:PRO:CB	2.52	0.40
6:C:530:LEU:HD12	6:C:530:LEU:N	2.37	0.40
6:C:576:VAL:HG11	6:C:600:VAL:HB	2.03	0.40
6:C:660:LEU:N	6:C:661:PRO:HD2	2.37	0.40
6:C:745:VAL:HA	6:C:748:TYR:CE2	2.57	0.40
6:C:785:MET:HG2	6:C:789:TYR:H	1.86	0.40
6:C:937:MET:HB3	6:C:962:TYR:OH	2.21	0.40
6:C:1034:ARG:HH12	6:C:1038:LYS:CB	2.33	0.40
6:C:1694:THR:C	6:C:1697:PRO:HD2	2.42	0.40
6:C:1871:MET:O	6:C:1875:LYS:HB3	2.20	0.40
6:C:1910:GLU:O	6:C:1912:THR:HG23	2.20	0.40
6:C:1937:ARG:O	6:C:1941:HIS:HB2	2.21	0.40
6:C:2040:MET:HA	6:C:2043:PHE:CE2	2.56	0.40
6:C:2050:GLN:CG	6:C:2051:SER:N	2.85	0.40
6:C:2159:PRO:HA	6:C:2162:LYS:HB2	2.04	0.40
6:C:2467:THR:HA	6:C:2470:ARG:HG2	2.03	0.40
6:C:2473:MET:O	6:C:2477:LEU:HG	2.22	0.40
6:C:2840:PHE:O	6:C:2844:LEU:HG	2.21	0.40
6:C:2853:PRO:HA	6:C:2856:SER:OG	2.21	0.40
6:C:2990:GLU:HA	6:C:2993:PHE:CD2	2.56	0.40
6:C:3048:LYS:HA	6:C:3051:LEU:HD12	2.03	0.40
6:C:3095:ASP:HB3	6:C:3098:ARG:NH1	2.36	0.40
6:C:3416:LEU:HD12	6:C:3419:PHE:HB3	2.03	0.40
6:C:3500:SER:C	6:C:3759:ARG:HH11	2.09	0.40
6:C:3534:ILE:CG2	6:C:3796:MET:HA	2.51	0.40
6:C:3632:PHE:CE2	6:C:3683:CYS:HB3	2.57	0.40
6:C:3887:PHE:HA	6:C:3890:MET:HE2	2.03	0.40
1:A:85:VAL:O	1:A:86:VAL:HG23	2.21	0.40
1:A:121:GLN:HB3	1:A:122:PHE:CD1	2.56	0.40
1:A:153:LEU:HA	1:A:156:ASP:OD1	2.22	0.40
1:A:499:GLU:OE2	1:A:502:GLN:HB2	2.21	0.40
1:A:515:ASN:HD22	2:B:256:ASN:ND2	2.19	0.40
2:B:113:VAL:O	2:B:117:VAL:HG23	2.22	0.40
2:B:132:ILE:H	2:B:159:ILE:HG23	1.86	0.40
2:B:151:ILE:HG21	2:B:214:SER:HB3	2.02	0.40
2:B:395:TYR:OH	2:B:397:TYR:HD1	2.03	0.40
4:D:6:DT:N3	4:D:7:DA:C5	2.89	0.40
5:E:17:DA:H8	5:E:18:DG:C5	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:218:PRO:HG3	6:C:263:LYS:NZ	2.37	0.40
6:C:397:LEU:HA	6:C:1817:GLN:CD	2.41	0.40
6:C:473:PRO:O	6:C:476:ARG:NH1	2.54	0.40
6:C:743:LEU:HD23	6:C:783:HIS:CE1	2.56	0.40
6:C:858:MET:O	6:C:861:SER:OG	2.19	0.40
6:C:886:TRP:CH2	6:C:950:GLU:HG2	2.56	0.40
6:C:1069:HIS:HB3	6:C:3741:ARG:NE	2.14	0.40
6:C:1154:PRO:HA	6:C:1157:PHE:CG	2.56	0.40
6:C:1514:LEU:HD23	6:C:1514:LEU:HA	1.80	0.40
6:C:1657:SER:HG	6:C:1658:SER:N	2.19	0.40
6:C:2281:MET:C	6:C:2283:ASN:N	2.75	0.40
6:C:2396:LEU:O	6:C:2400:VAL:CB	2.56	0.40
6:C:2415:LEU:O	6:C:2418:LYS:HB2	2.22	0.40
6:C:2795:GLN:HB2	6:C:2796:ALA:H	1.75	0.40
6:C:2928:LYS:HD2	6:C:2928:LYS:HA	1.88	0.40
6:C:3041:LEU:N	6:C:3042:PRO:HD2	2.36	0.40
6:C:3173:MET:HG3	6:C:3175:PRO:HD2	2.03	0.40
6:C:3231:ILE:HD12	6:C:3231:ILE:HA	1.78	0.40
6:C:3243:ILE:O	6:C:3278:GLN:NE2	2.55	0.40
6:C:3447:VAL:O	6:C:3450:MET:HE3	2.21	0.40
6:C:3595:GLU:HA	6:C:3598:LYS:HZ3	1.86	0.40
6:C:3718:ARG:HD2	6:C:3743:HIS:CE1	2.57	0.40
6:C:3741:ARG:HA	6:C:3741:ARG:HD2	1.91	0.40
6:C:3774:ILE:O	6:C:3777:GLN:N	2.55	0.40
6:C:3930:VAL:N	6:C:3937:VAL:HG12	2.36	0.40
6:C:3962:ARG:NH1	6:C:4124:TRP:CD2	2.90	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	489/501 (98%)	411 (84%)	74 (15%)	4 (1%)	19	60
2	B	522/536 (97%)	444 (85%)	71 (14%)	7 (1%)	12	48
3	K	13/15 (87%)	12 (92%)	1 (8%)	0	100	100
6	C	3608/4119 (88%)	2742 (76%)	764 (21%)	102 (3%)	5	30
All	All	4632/5171 (90%)	3609 (78%)	910 (20%)	113 (2%)	9	33

All (113) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	368	ARG
6	C	430	VAL
6	C	473	PRO
6	C	905	ILE
6	C	1977	ILE
6	C	2400	VAL
6	C	3486	GLU
6	C	3690	PHE
1	A	406	ILE
6	C	76	ILE
6	C	442	GLN
6	C	1059	LEU
6	C	1116	ALA
6	C	1136	ARG
6	C	2145	PHE
6	C	2398	LEU
6	C	2795	GLN
6	C	4028	ILE
1	A	132	GLN
1	A	243	LEU
2	B	119	GLN
6	C	269	SER
6	C	300	TRP
6	C	416	SER
6	C	546	ALA
6	C	625	ASN
6	C	656	GLN
6	C	971	ARG
6	C	1076	LEU
6	C	1124	ILE
6	C	1172	LEU
6	C	1576	ASP
6	C	1995	GLU

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Mol	Chain	Res	Type
6	C	2316	TYR
6	C	2471	GLU
6	C	2891	ARG
6	C	3061	LEU
6	C	4005	PHE
6	C	130	LEU
6	C	332	GLU
6	C	619	ASP
6	C	638	GLN
6	C	892	LEU
6	C	949	PRO
6	C	960	GLN
6	C	965	THR
6	C	1011	GLU
6	C	1028	PHE
6	C	1091	GLU
6	C	1442	GLN
6	C	1584	GLN
6	C	1703	THR
6	C	1863	PHE
6	C	1873	TYR
6	C	2047	THR
6	C	2100	LEU
6	C	2360	PHE
6	C	2540	LEU
6	C	2559	THR
6	C	2937	ASP
6	C	2993	PHE
6	C	3131	SER
6	C	3133	GLN
6	C	3135	LEU
6	C	3182	ILE
6	C	3415	THR
6	C	3420	CYS
6	C	3501	HIS
6	C	3573	ASN
6	C	3814	ASP
6	C	3907	SER
6	C	3997	LEU
6	C	4003	ASP
2	B	166	PRO
6	C	50	VAL

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Mol	Chain	Res	Type
6	C	85	ILE
6	C	553	VAL
6	C	615	ALA
6	C	726	LEU
6	C	994	TRP
6	C	1111	LEU
6	C	2322	VAL
6	C	2998	SER
6	C	3142	ILE
6	C	3345	PRO
6	C	3468	LEU
6	C	3909	ALA
6	C	4076	ASP
2	B	279	VAL
6	C	69	VAL
6	C	635	PRO
6	C	1982	ILE
6	C	3911	ILE
2	B	294	VAL
2	B	512	ILE
6	C	784	VAL
6	C	853	ILE
6	C	2280	VAL
6	C	2520	ILE
6	C	2570	PRO
6	C	1045	THR
6	C	2137	ILE
6	C	2444	PRO
6	C	3077	ILE
1	A	402	PRO
6	C	1105	VAL
6	C	2498	ILE
6	C	2902	PRO
6	C	3692	VAL
2	B	533	ILE
6	C	768	VAL
6	C	3297	VAL
6	C	3677	PRO

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	448/455 (98%)	447 (100%)	1 (0%)	93	96
2	B	474/481 (98%)	473 (100%)	1 (0%)	93	96
6	C	3238/3667 (88%)	3217 (99%)	21 (1%)	86	92
All	All	4160/4603 (90%)	4137 (99%)	23 (1%)	86	92

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	394	VAL
2	B	540	ILE
6	C	241	ASP
6	C	260	ILE
6	C	361	ILE
6	C	737	PRO
6	C	1491	ILE
6	C	2156	VAL
6	C	2203	THR
6	C	2330	VAL
6	C	2419	ASP
6	C	2476	ILE
6	C	2480	ILE
6	C	2507	ILE
6	C	2785	ILE
6	C	2809	PHE
6	C	2816	ILE
6	C	3019	ILE
6	C	3045	ILE
6	C	3120	LEU
6	C	3529	ILE
6	C	3719	ILE
6	C	4028	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (106) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	106	GLN
1	A	110	ASN
1	A	121	GLN
1	A	128	GLN
1	A	163	HIS
1	A	359	HIS
1	A	405	ASN
1	A	426	GLN
1	A	484	GLN
1	A	515	ASN
2	B	45	GLN
2	B	104	GLN
2	B	131	HIS
2	B	162	GLN
2	B	200	GLN
2	B	243	HIS
2	B	256	ASN
2	B	330	GLN
2	B	496	HIS
2	B	527	GLN
6	C	74	ASN
6	C	98	GLN
6	C	136	GLN
6	C	207	GLN
6	C	303	HIS
6	C	322	GLN
6	C	334	HIS
6	C	344	GLN
6	C	356	ASN
6	C	394	GLN
6	C	415	GLN
6	C	454	GLN
6	C	562	HIS
6	C	613	HIS
6	C	753	GLN
6	C	783	HIS
6	C	867	ASN
6	C	993	HIS
6	C	998	ASN
6	C	1047	GLN
6	C	1069	HIS
6	C	1115	HIS
6	C	1146	ASN

Continued on next page...

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Mol	Chain	Res	Type
6	C	1231	GLN
6	C	1268	ASN
6	C	1280	GLN
6	C	1325	GLN
6	C	1374	GLN
6	C	1385	ASN
6	C	1426	GLN
6	C	1435	ASN
6	C	1457	GLN
6	C	1459	HIS
6	C	1552	HIS
6	C	1555	HIS
6	C	1574	ASN
6	C	1654	GLN
6	C	1738	ASN
6	C	1817	GLN
6	C	1866	GLN
6	C	1897	ASN
6	C	1901	HIS
6	C	1931	ASN
6	C	1957	ASN
6	C	1974	ASN
6	C	1980	ASN
6	C	2016	ASN
6	C	2042	GLN
6	C	2050	GLN
6	C	2089	ASN
6	C	2135	ASN
6	C	2163	HIS
6	C	2183	HIS
6	C	2234	ASN
6	C	2266	ASN
6	C	2295	GLN
6	C	2432	GLN
6	C	2472	GLN
6	C	2475	ASN
6	C	2481	HIS
6	C	2534	ASN
6	C	2834	GLN
6	C	2886	GLN
6	C	3003	ASN
6	C	3059	GLN

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Mol	Chain	Res	Type
6	C	3070	HIS
6	C	3112	GLN
6	C	3148	GLN
6	C	3177	ASN
6	C	3278	GLN
6	C	3296	GLN
6	C	3310	ASN
6	C	3319	ASN
6	C	3501	HIS
6	C	3643	HIS
6	C	3660	ASN
6	C	3664	ASN
6	C	3679	ASN
6	C	3697	ASN
6	C	3704	GLN
6	C	3783	GLN
6	C	3822	GLN
6	C	3850	HIS
6	C	3927	ASN
6	C	3944	HIS
6	C	3951	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides 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](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6803. These allow visual inspection of the internal detail of the map and identification of artifacts.

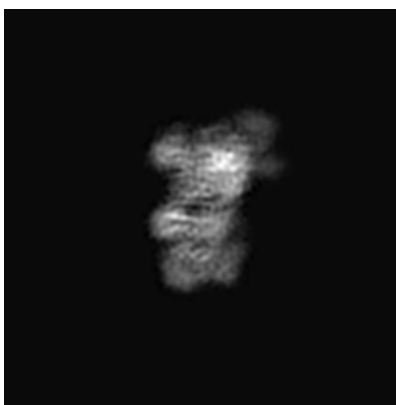
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

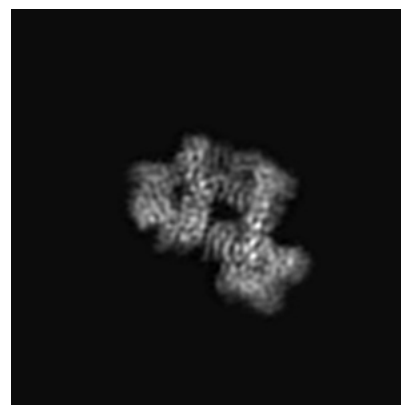
6.1.1 Primary map



X



Y

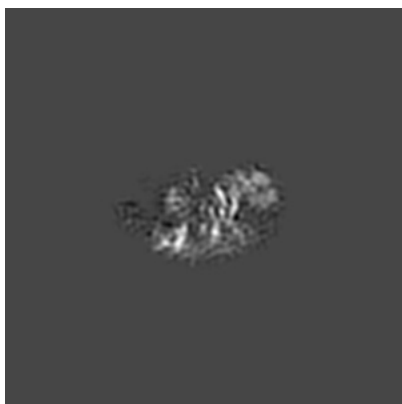


Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 150



Y Index: 150



Z Index: 150

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

6.3 Largest variance slices [i](#)

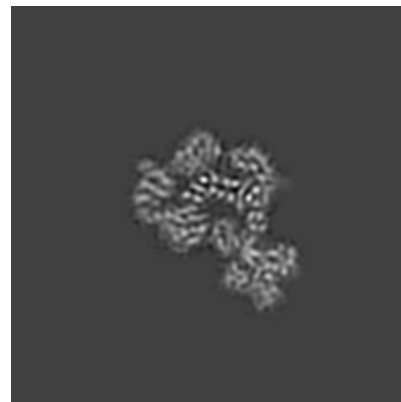
6.3.1 Primary map



X Index: 181



Y Index: 136

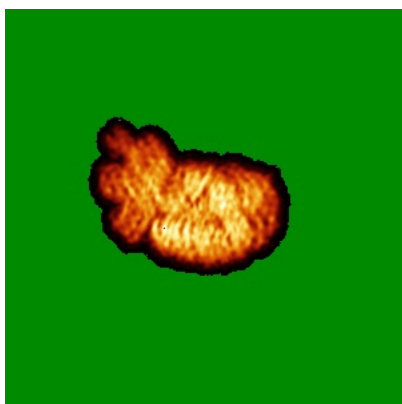


Z Index: 159

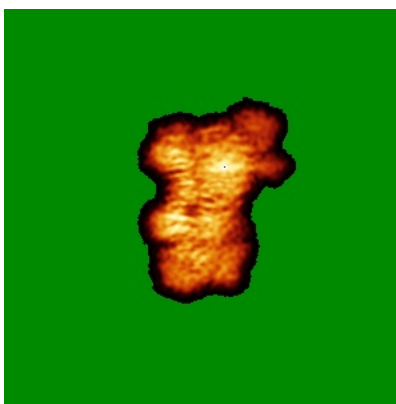
The images above show the largest variance slices of the map in three orthogonal directions.

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

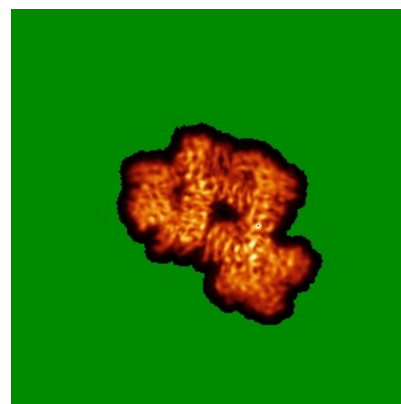
6.4.1 Primary map



X



Y

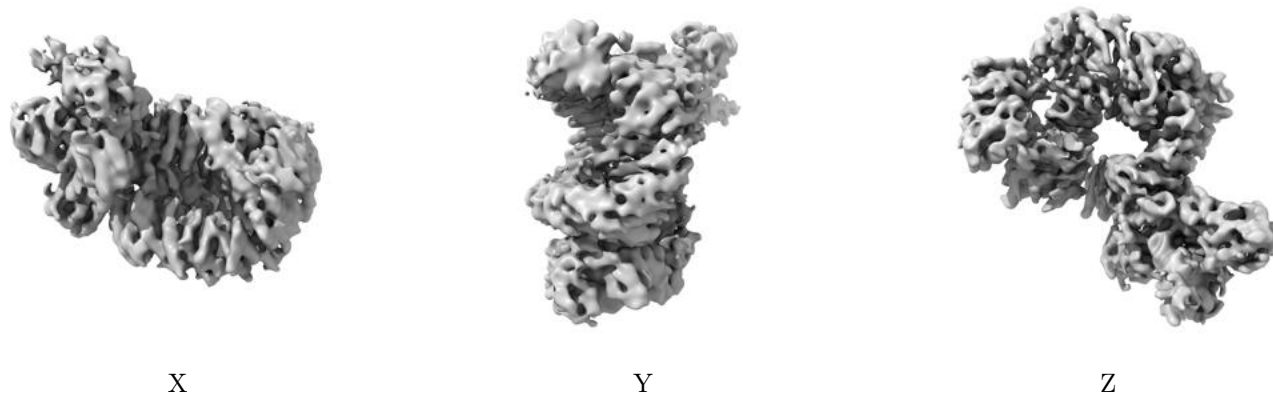


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

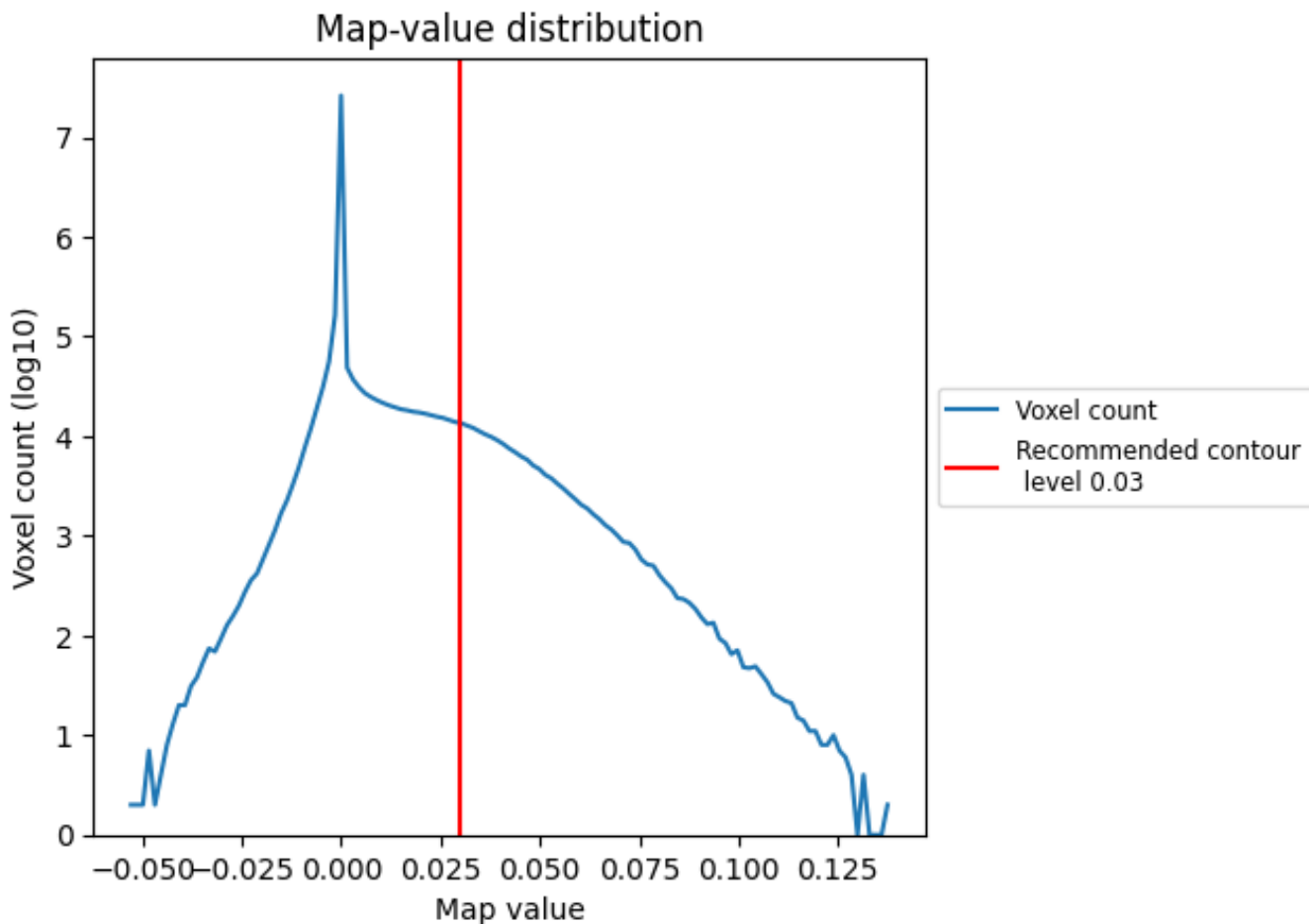
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

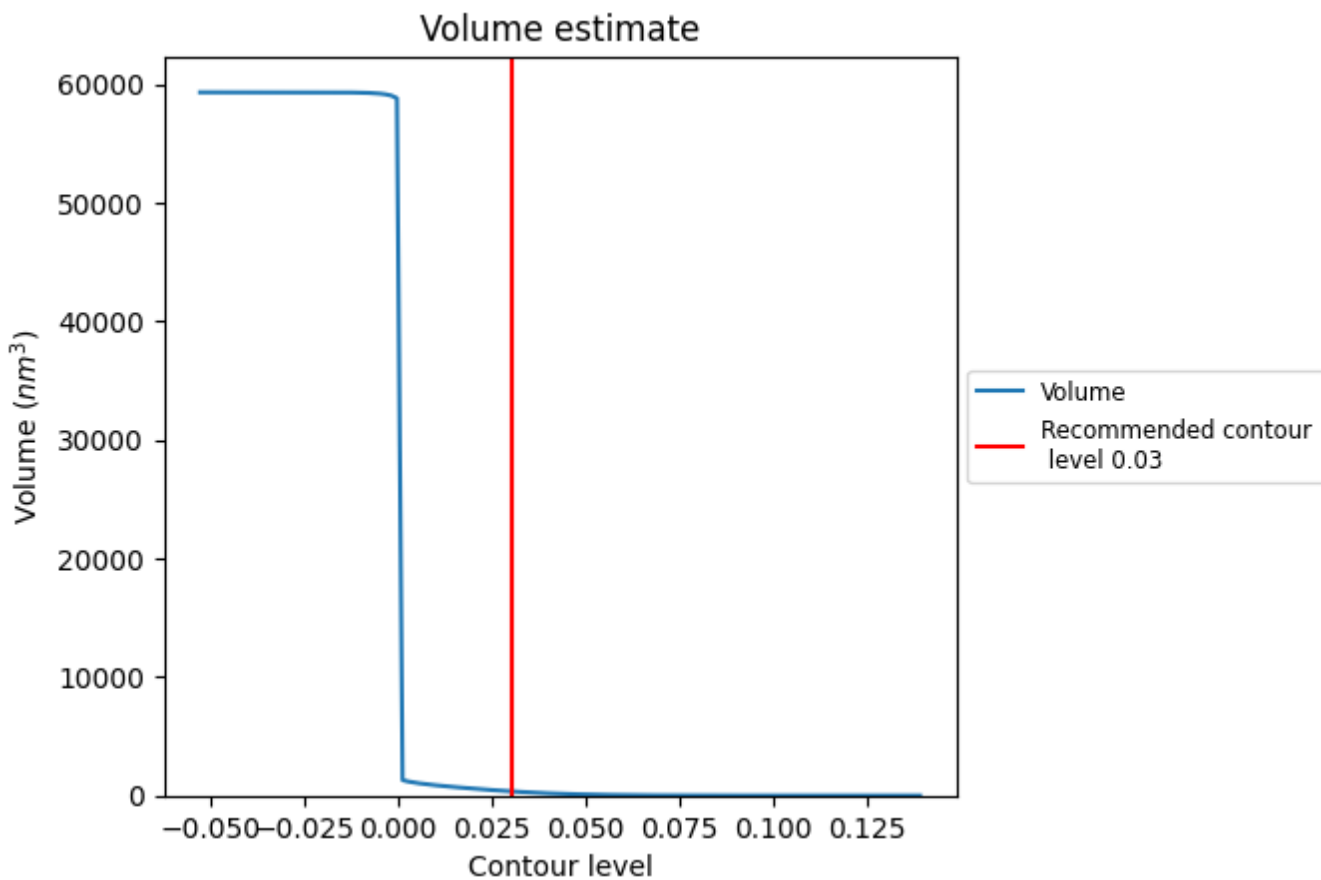
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

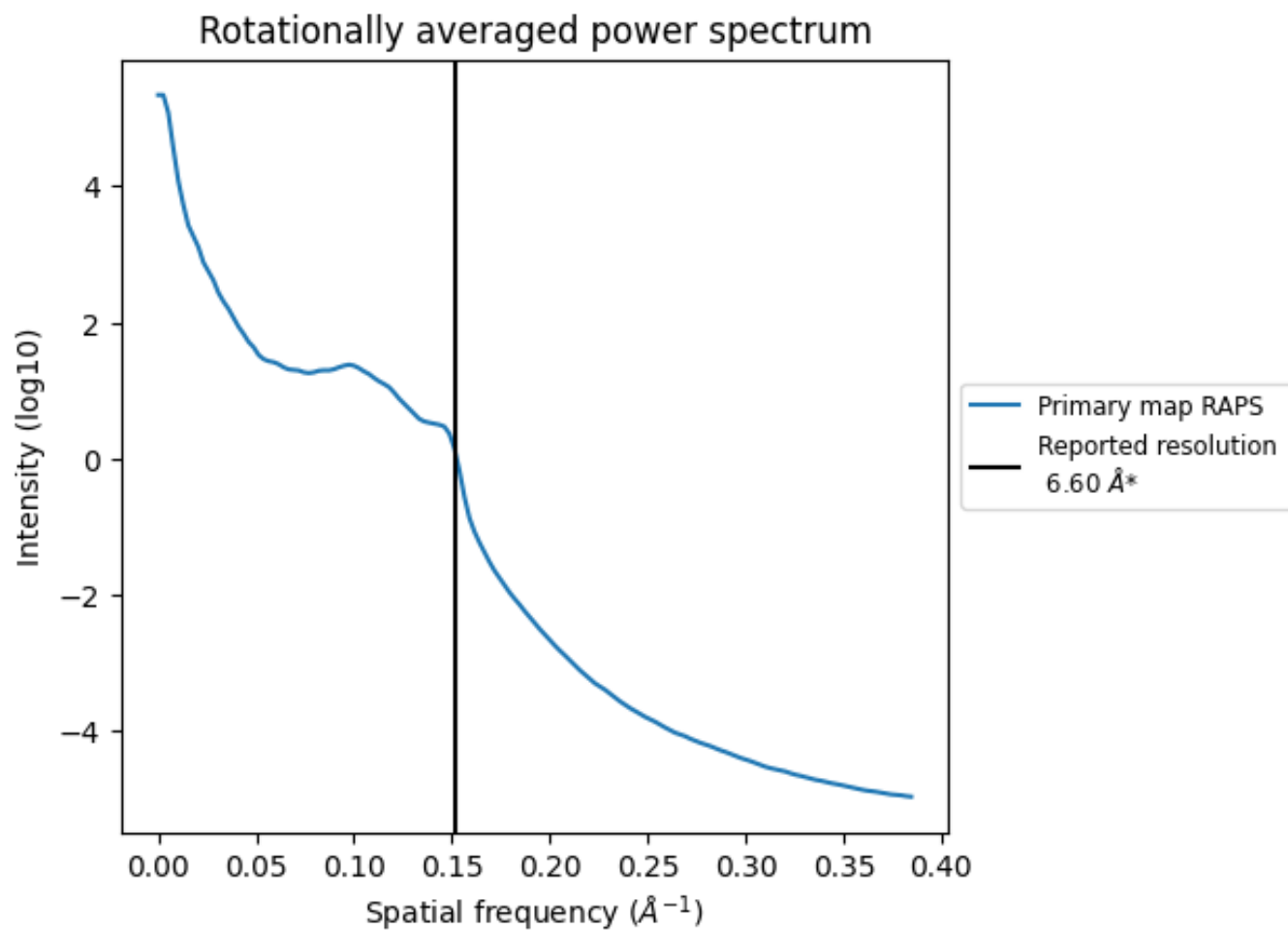
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 356 nm³; this corresponds to an approximate mass of 322 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 [i](#)

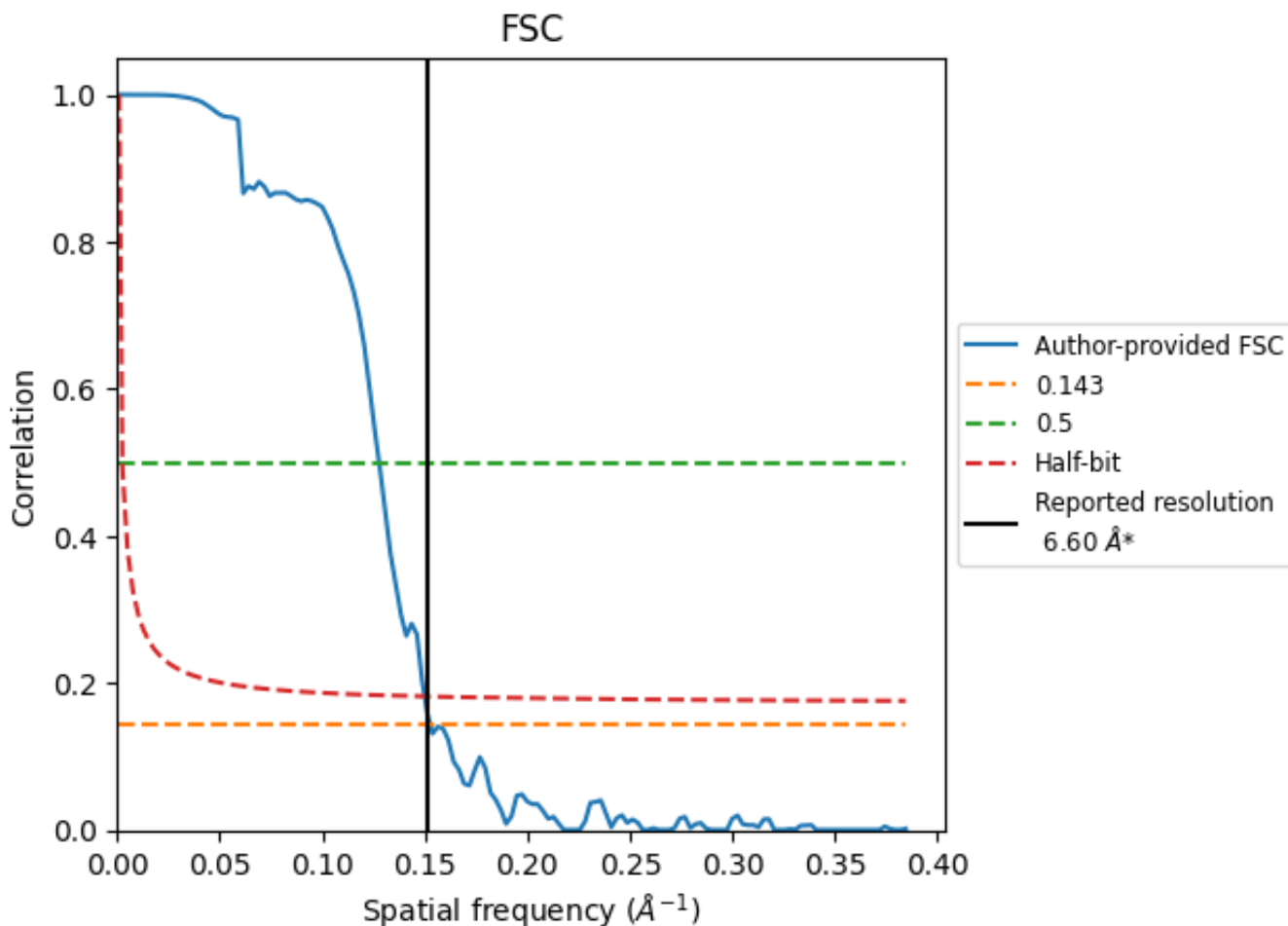


*Reported resolution corresponds to spatial frequency of 0.152\AA^{-1}

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 0.152 Å⁻¹

8.2 Resolution estimates [i](#)

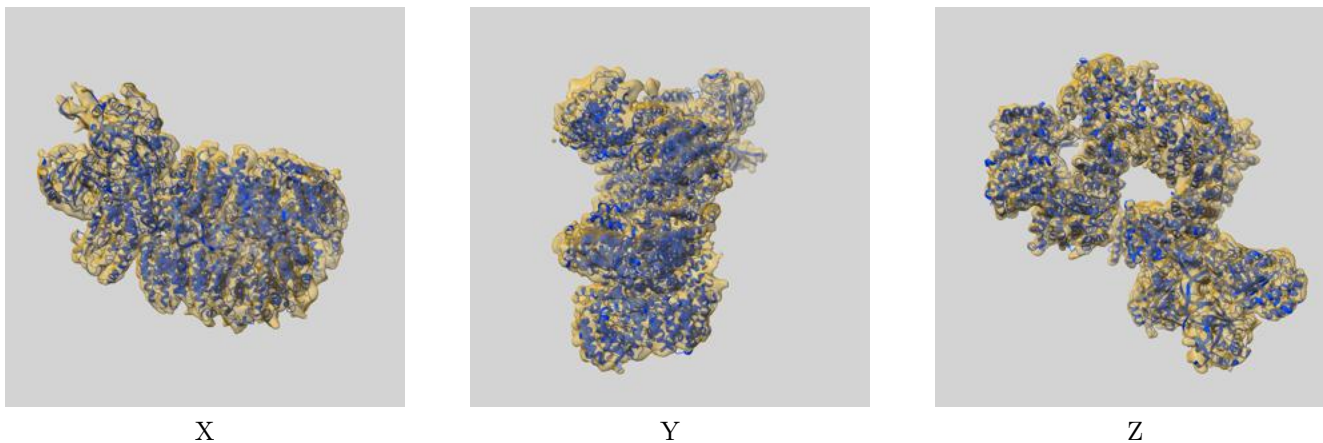
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.60	-	-
Author-provided FSC curve	6.55	7.82	6.67
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-6803 and PDB model 5Y3R. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)



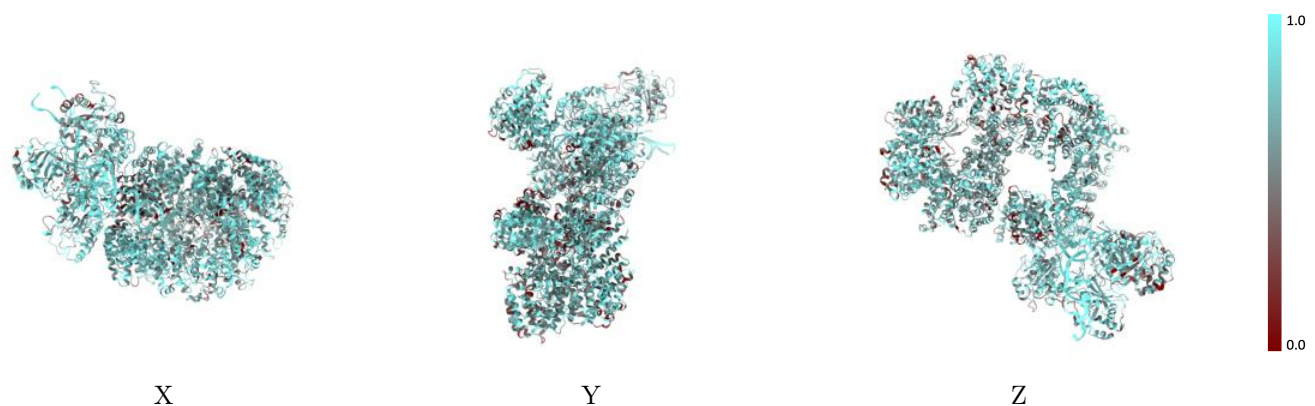
The images above show the 3D surface view of the map at the recommended contour level 0.03 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



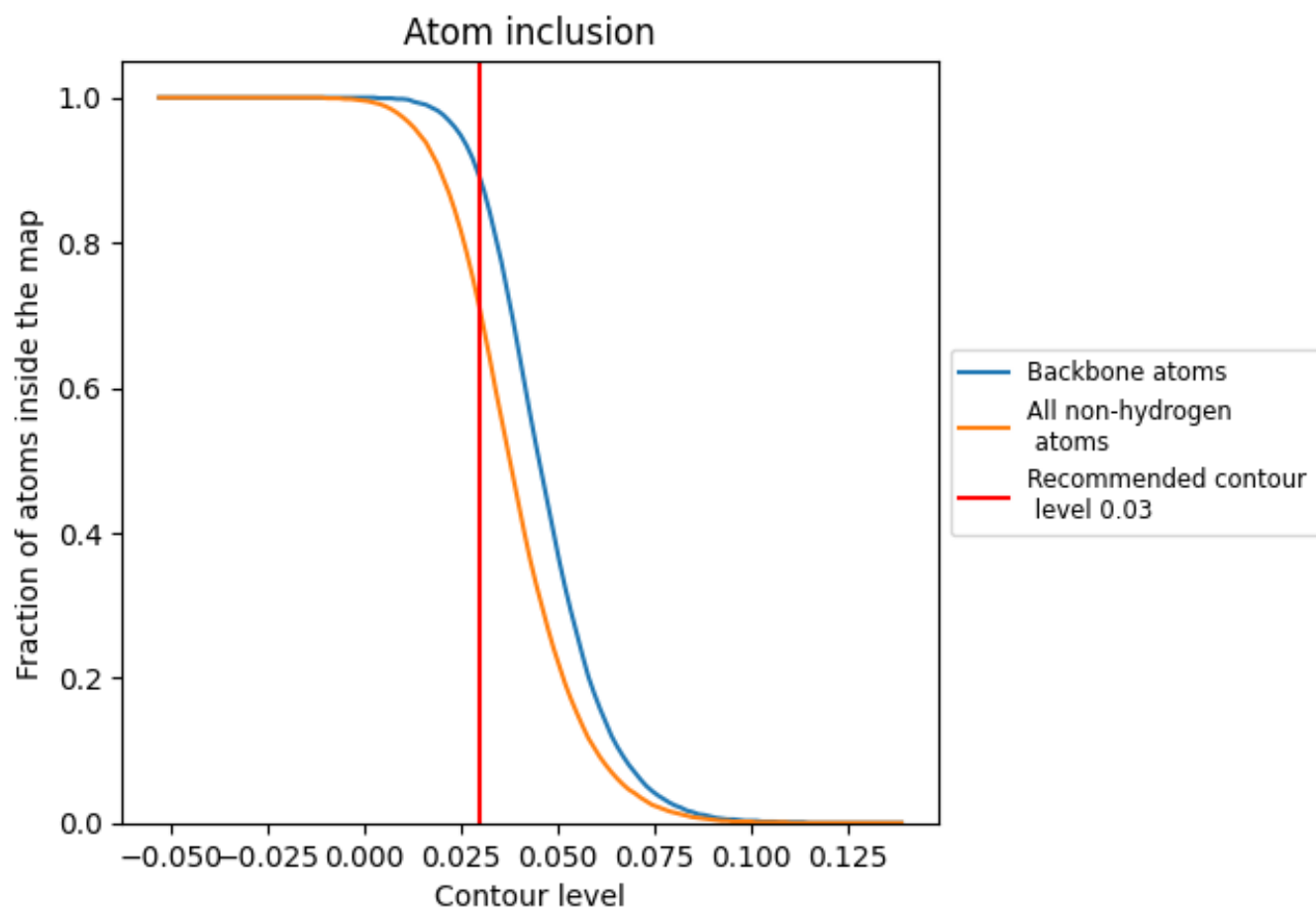
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.03).















9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 71% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7080	 0.2170
A	 0.7480	 0.2360
B	 0.7070	 0.2250
C	 0.6940	 0.2110
D	 0.9200	 0.2680
E	 0.8910	 0.2590
K	 0.4400	 0.2940

