



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 05:55 PM UTC

PDB ID : 9E1A / pdb_00009e1a
EMDB ID : EMD-47387
Title : Structure of RyR1 in the primed state in the presence of dyphylline
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 3.35 Å(reported)
Based on initial model : 7TZC

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

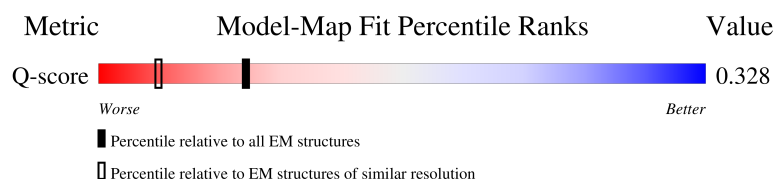
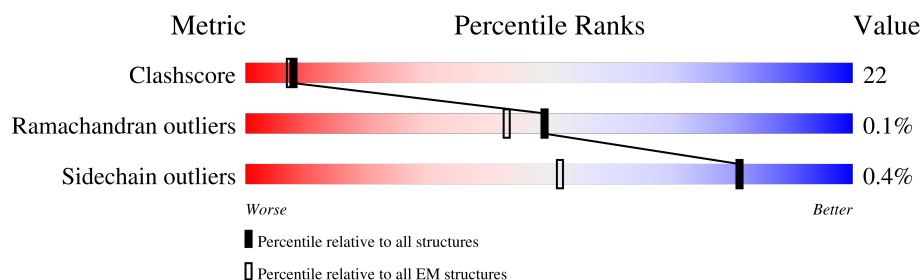
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.35 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14390 (2.85 - 3.85)

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

Mol	Chain	Length	Quality of chain
1	A	5037	
1	B	5037	
1	C	5037	
1	D	5037	

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Mol	Chain	Length	Quality of chain
2	E	108	66% 62% 34%
2	F	108	65% 64% 32%
2	G	108	64% 63% 33%
2	H	108	64% 64% 32%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 144128 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

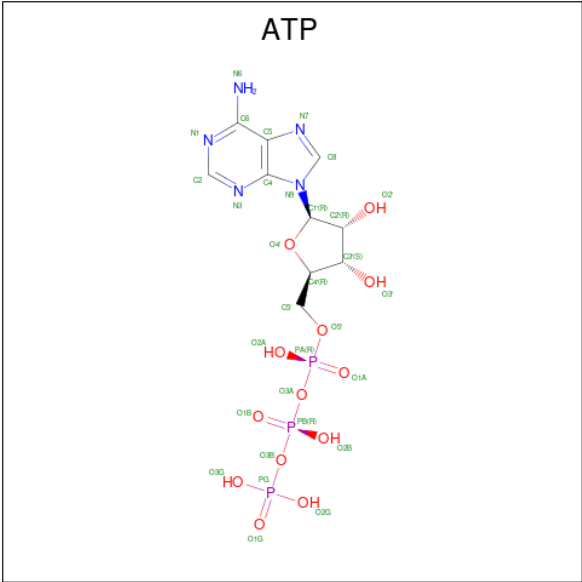
- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	B	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	D	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		
1	C	4404	Total	C	N	O	S	9	0
			35150	22365	6063	6485	237		

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

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

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



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

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

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

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

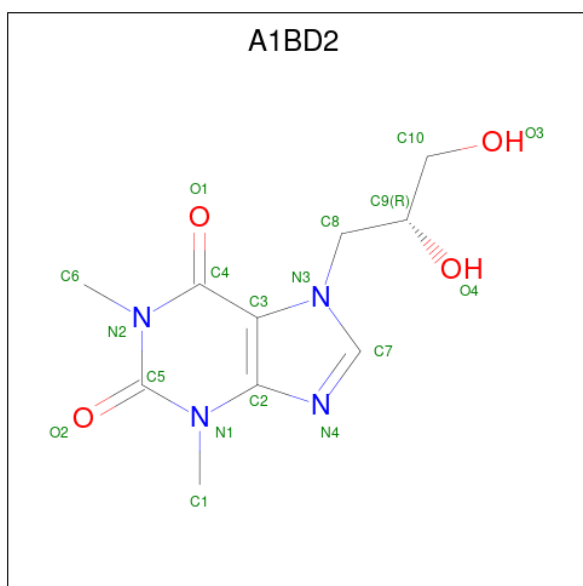
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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

- Molecule 6 is dyphylline (CCD ID: A1BD2) (formula: C₁₀H₁₄N₄O₄) (labeled as "Ligand of Interest" by depositor).



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

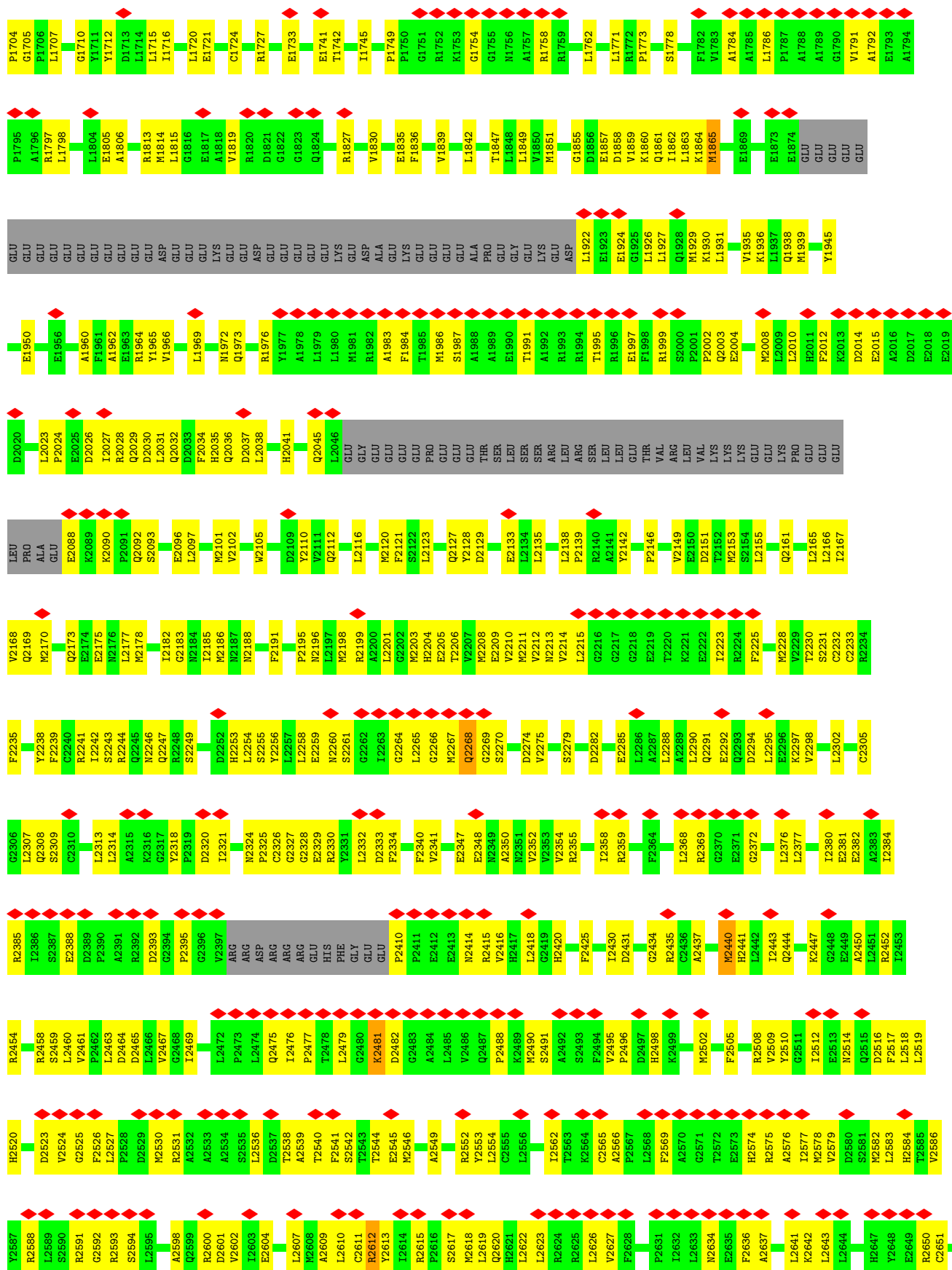
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Ryanodine receptor 1

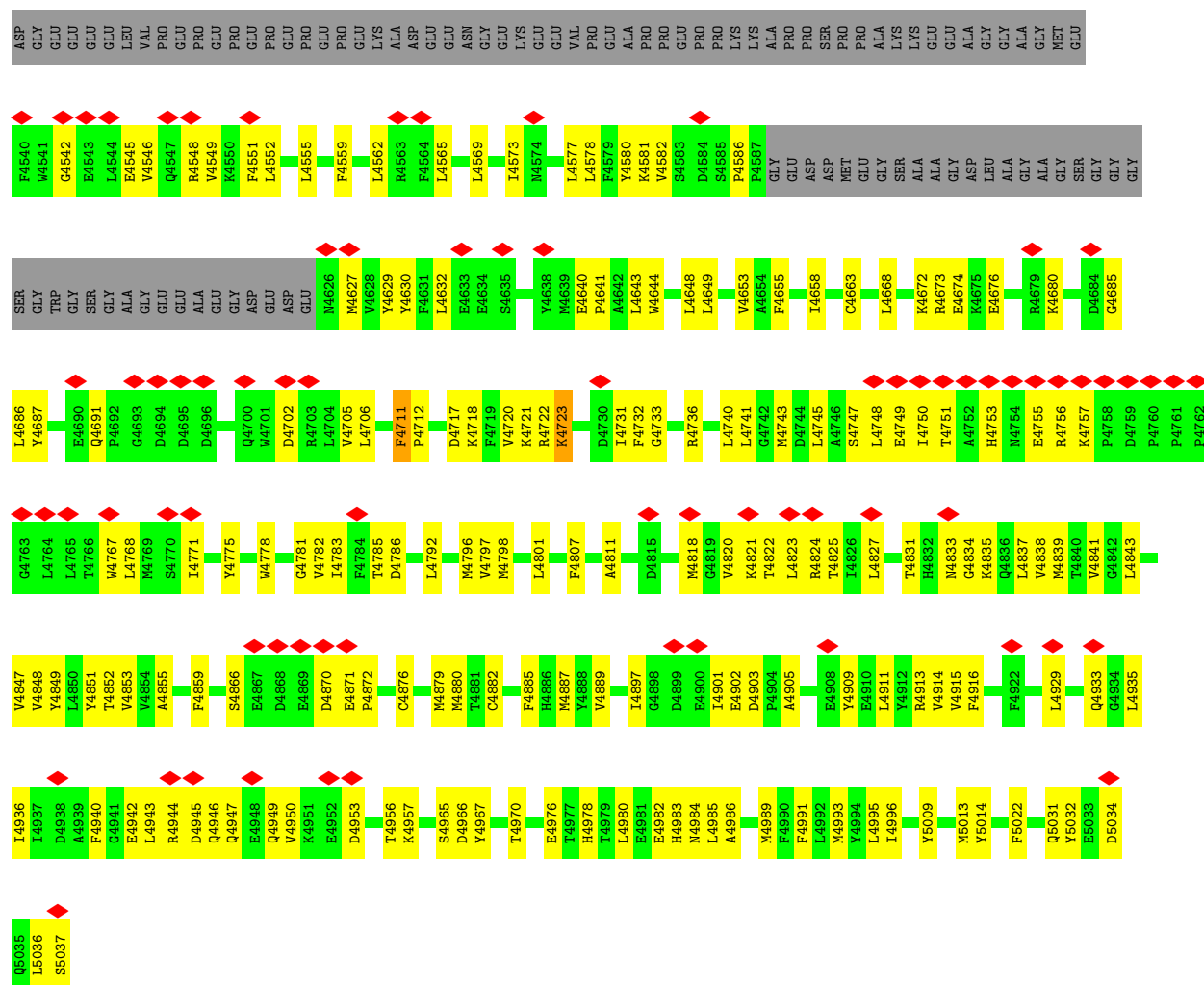


R1594	L1595	Q1598	M1599	L1600	M1601	P1602	V1603	M1608	P1609	N1610	E1616	T1617	R1618	R1619	A1620	W1626	A1627	V1628	D1632	M1636	M1637	A1638	L1639	H1640	I1641	P1642	E1643	E1644	N1645	R1646	C1647	M1648	D1649	D1658	R1668	R1671	L1676	N1679	R1680	L1694	L1698	E1699	D1700	A1701	H1702	L1703													
S1446	C1447	V1448	W1449	V1453	T1454	P1455	D1456	D1461	M1462	N1463	F1464	D1465	L1466	S1467	K1468	V1469	R1470	V1474	T1475	M1476	G1477	D1478	E1479	Q1480	G1481	M1482	V1483	H1484	S1485	S1486	L1487	K1488	C1489	S1490	N1491	C1492	Y1493	M1494	V1495	W1496	G1497	G1498	D1499	F1500	V1501	S1502	P1503	G1504	Q1505	Q1506	F1507	R1508	T1509	S1510	H1511	T1512			
D1513	L1514	V1515	I1516	A1523	M1527	A1531	N1532	G1533	K1534	M1537	T1538	F1539	F1540	Q1541	V1542	K1547	L1548	F1549	P1550	A1551	V1554	L1555	V1561	I1562	Q1563	F1564	N1565	L1566	G1567	K1568	Q1569	F1570	N1571	I1572	M1573	P1574	S1575	S1576	A1577	M1578	F1579	F1580	E1583	R1584	K1585	N1586	Q1590	C1591	F1592	P1593									
ALA	ASN	LYS	LYS	ARG	GLU	PRO	ASP	ASP	TYR	GLU	ASN	LEU	ARG	ALA	ARG	SER	ALA	ALA	GLY	GLY	TRP	GLY	GLY	THR	GLN	PRO	PRO	GLY	GLY	THR	ALA	ALA	THR	GLN	PRO	GLY	GLY	VAL	ARG	GLY	ALA	ASN	GLY	LYS	ASP	ALA	THR	THR	GLU										
LYS	ASN	LYS	LYS	ARG	GLY	PHE	LEU	PHE	LYS	ALA	LYS	LEU	ARG	ALA	ARG	MET	MET	THR	GLN	PRO	PRO	THR	ALA	ALA	GLY	GLY	VAL	VAL	PRO	ALA	D1419	N1420	R1421	D1422	D1423	P1424	E1425	I1426	I1427	L1428	N1429	T1430	T1431	T1432	Y1433	Y1434	Y1435	S1436	V1439	F1440	A1441	P1445							
ALA	ARG	ALA	GLU	ASP	ASP	ASP	TYR	GLU	ASN	LEU	ARG	ALA	ARG	ALA	ARG	SER	ALA	ALA	GLY	GLY	TRP	GLY	GLY	THR	GLN	PRO	PRO	GLY	GLY	THR	ALA	ALA	THR	GLN	PRO	GLY	VAL	ARG	GLY	ALA	ASN	GLY	LYS	ASP	ALA	THR	THR	GLU											
R1259	M1260	D1261	G1262	T1263	V1264	D1265	T1266	C1269	L1270	P1271	L1272	R1275	T1276	W1277	G1278	Q1280	N1281	S1282	L1283	V1284	E1285	M1286	L1287	F1288	L1289	R1290	L1293	Q1296	F1297	H1298	Q1299	H1300	F1301	R1302	C1303	T1304	ALA	GLY	ALA	THR	PRO	GLU	LEU	ALA	ASP	GLU	LEU	ALA	ASP	GLU									
R1180	E1181	T1182	E1183	T1184	G1185	D1186	G1187	F1188	L1189	P1190	V1191	P1196	V1199	L1204	Q1205	Q1206	D1207	V1208	S1209	S1210	L1211	R1212	I1216	G1217	G1218	L1219	Q1220	E1221	G1222	F1223	E1224	A1227	I1228	M1229	M1230	Q1231	R1232	P1233	V1234	T1235	T1236	K1240	S1241	Q1244	F1245	E1251	H1252	Y1255	E1256										
W1104	A1105	R1106	E1108	L1109	P1110	P1111	D1112	V1113	E1114	L1115	G1116	A1117	D1118	E1119	L1120	V1123	F1124	G1126	H1127	R1128	G1129	W1132	H1133	L1134	G1135	S1136	R1141	G1146	D1147	V1148	V1149	L1153	D1154	L1155	T1156	E1157	N1158	I1161	F1162	L1169	M1170	S1171	D1172	S1173	G1174	E1176	T1177	F1179											
A1030	T1031	K1032	R1033	S1034	N1035	R1036	D1037	S1038	L1039	C1040	Q1041	A1042	V1043	R1044	T1045	L1046	L1047	G1048	Y1049	G1050	Y1051	N1052	I1053	E1054	P1055	P1056	D1057	Q1058	E1059	P1060	S1061	Q1062	V1063	E1064	N1065	Q1066	S1067	R1068	W1069	D1070	R1071	V1072	I1073	I1074	K1079	Q1084	R1087	W1088	E1093	E1099	M1100	R1101	V1102	G1103					
P967	A968	P969	L970	D971	L972	S973	H974	V975	R976	L977	T978	P979	A980	Q981	T982	T983	L984	V985	D986	R987	L988	A989	E990	N991	G992	H993	N994	W995	A997	R998	V1001	A1002	Q1003	M1004	W1005	S1006	Y1007	S1008	A1009	V1010	Q1011	P1014	A1015	R1016	R1017	R1020	L1021	V1022	P1023	Y1024	R1025	L1026	L1027	D1028	E1029				
L907	V908	N909	F910	H911	S912	L913	P914	E915	P916	E917	R918	N919	Q920	N921	L922	Q923	M924	S925	G926	E927	T928	L929	K930	T931	L932	L933	A934	L935	G936	C937	H938	V939	Q940	M941	A942	D943	E944	K945	A946	E947	D948	N949	L950	K951	Q952	T953	K954	L955	P956	K957	T958	Y959	M960	M961	S962	N963	G964	Y965	K966
S847	H848	T849	D850	F851	V852	P853	C854	P855	V856	D857	T858	V859	Q860	L861	V862	L863	P864	P865	H866	L867	E868	R869	I870	R871	E872	K873	L874	A875	E876	N877	I878	H879	E880	L881	W882	A883	L884	T885	R886	I887	E888	Q889	G890	W891	T892	Y893	P895	V896	R897	D898	D899	N900	K901	R902	L903	H904	P905	C906	
N772	L773	D774	G775	F776	F777	V781	S782	F783	G786	V787	K788	V789	R790	F791	L792	L793	R796	E799	F800	K801	F802	P806	G807	C811	H812	E813	A814	V815	L816	P817	R818	E819	R820	L821	R822	L823	K827	E828	Y829	R830	R831	R835	L839	V840	G841	P842	S843	R844	C845	L846									



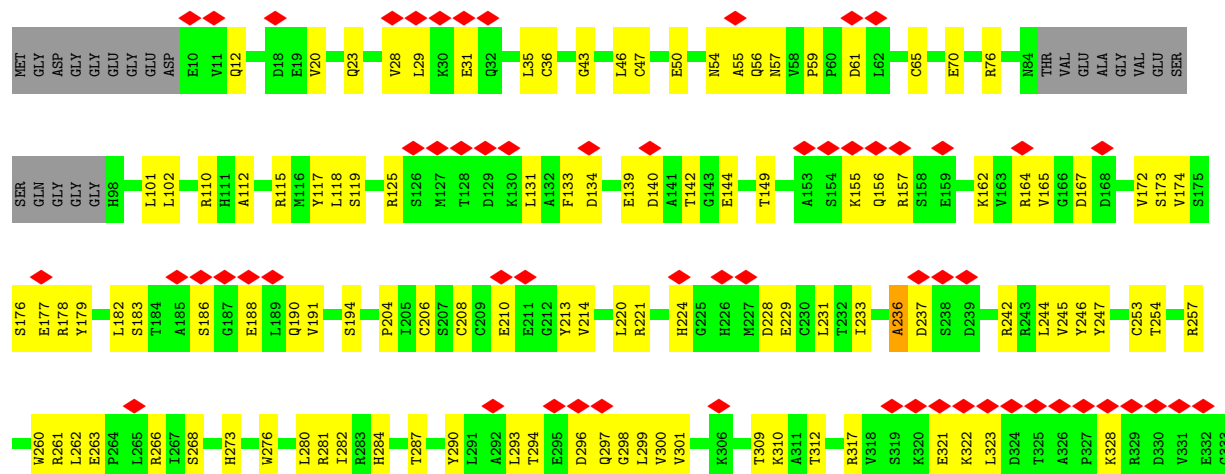






Molecule 1: Ryanodine receptor 1

Chain B:

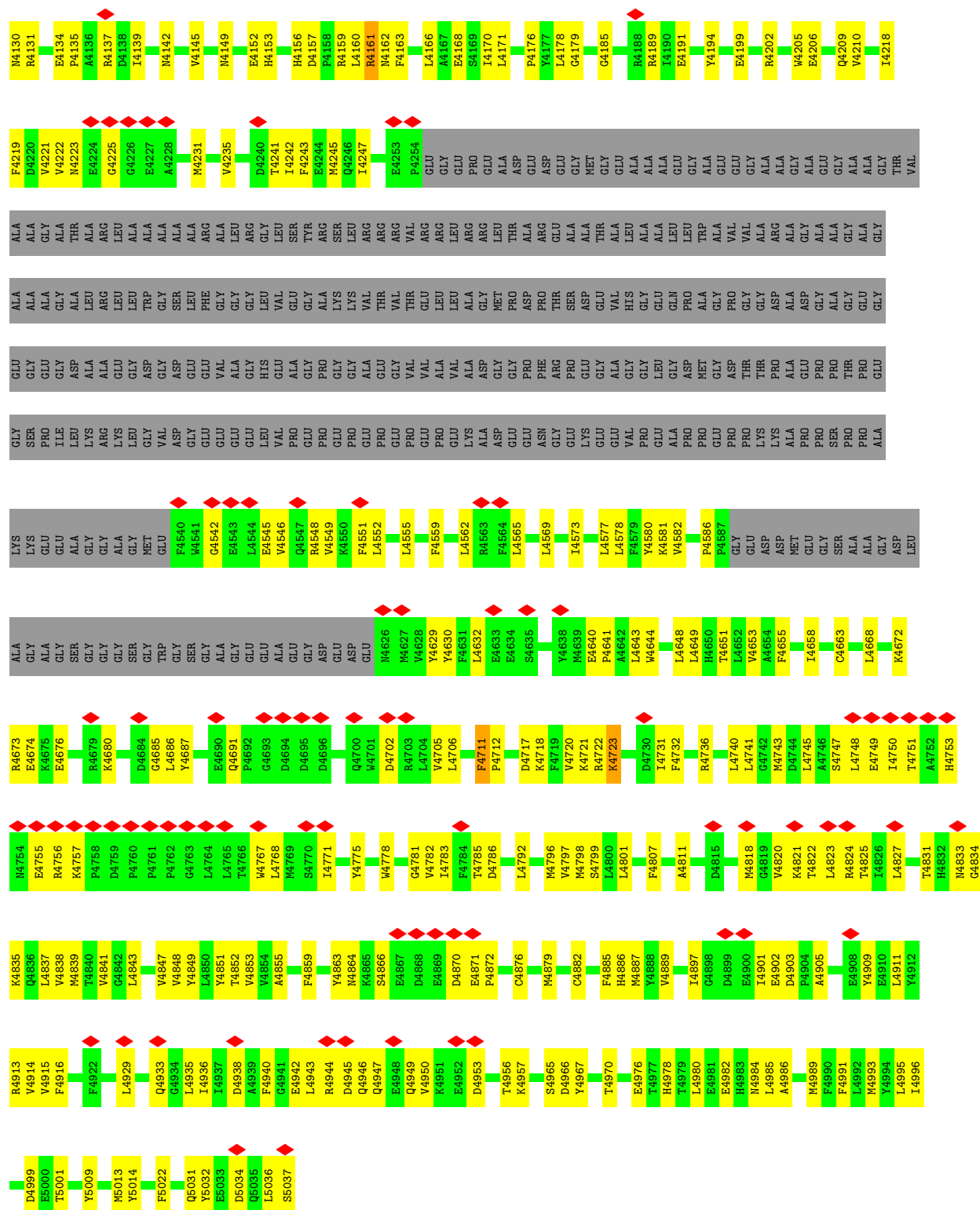








S4052	S4053	V4054	V4055	E4056	M4057	K4060	F4061	F4062	D4063	M4064	F4065	L4066	L4067	L4068	L4069	D4070	I4071	F4077	Q4078	Q4079	V4080	V4081	T4082	D4083	R4085	R4086	K4090	Q4099	I4010	K4014	E4015	L4016	L4017	Q4020	S4099	Q4100	K4101	G4105	Q4109	L4112	E4116	F4119	M4120	I4123	M4124	V4049	E4127	F4128	A4129																
M3858	V3859	N3860	E3861	D3862	G3863	T3864	V3865	L3866	N3867	R3868	Q3869	N3870	G3871	E3872	K3873	V3874	K3875	A3876	D3877	D3878	R3886	D3898	F3899	R3904	T3905	Q3906	T3912	L3924	Q3927	I3930	S3931	D3932	F3933	Y3937	K3940	D3941	Q3946	R3949	N3950	F3951	S3952	K3953	A3954	M3955	S3956	V3957	V3961																		
T3966	I3969	Q3970	G3971	P3972	C3973	L3980	S3983	R3984	L3985	V3986	A3987	S3988	V3989	S3990	F3991	F3992	V3995	F3996	M4000	M4001	K4002	L4003	S4007	S4008	Q4009	I4010	K4014	E4015	L4016	L4017	Q4020	K4021	V4024	V4025	M4026	L4027	L4028	S4029	M4037	A4041	R4042	Q4043	M4044	V4045	V4049																				
S4052	S4053	V4055	E4056	M4057	K4060	F4061	F4062	D4063	M4064	F4065	L4066	L4067	L4068	L4069	D4070	I4071	F4077	Q4078	Q4079	V4080	V4081	T4082	D4083	R4085	R4086	K4090	Q4099	I4010	K4014	E4015	L4016	L4017	Q4020	K4021	V4024	V4025	M4026	L4027	L4028	S4029	M4037	A4041	R4042	Q4043	M4044	V4045	V4049																		
L3194	A3195	R3196	L3197	A3198	A3199	A3200	M3201	F3202	V3203	A3204	F3205	L3206	E3207	F3208	Q3209	L3210	N3211	E3212	V3213	N3214	A3215	C3216	S3217	V3218	Y3219	T3220	T3221	S3222	S3223	F3224	R3225	E3226	R3227	A3228	I3229	L3230	G3231	L3232	P3233	N3234	S3235	V3236	E3237	E3238	M3239	C3240	P3241	D3242	I3243	P3244	V3245	L3246	D3247	R3248	L3249	M3250	A3251	D3252	I3253						
G3254	G3255	L3256	A3257	E3258	S3259	G3260	A3261	R3262	Y3263	T3264	E3265	M3266	P3267	V3268	Q3269	I3270	E3271	I3272	T3273	L3274	P3275	M3276	L3277	C3278	S3279	Y3280	L3281	P3282	R3283	W3284	W3285	E3286	R3287	G3288	P3289	E3290	A3291	P3292	P3293	P3294	L3295	L3296	P3297	A3298	G3299	A3300	P3301	P3302	P3303	C3304	T3305	A3306	V3307	T3308	S3309	D3310	H3311	L3312	N3313						
S3314	L3315	L3316	G3317	N3318	I3319	L3320	R3321	I3322	I3323	V3324	N3325	N3326	L3327	G3328	I3329	D3330	E3331	A3332	T3333	W3334	M3335	K3336	R3337	L3338	A3339	V3340	F3341	A3342	R3343	Q3344	P3344	I3345	V3346	S3347	R3348	A3349	R3350	P3351	E3352	H3353	S3354	L3355	H3356	P3357	I3358	S3359	P3360	T3361	I3362	G3363	L3364	R3365	R3366	K3367	A3368	G3369	K3371	V3372	V3373						
A3374	E3375	E3376	E3377	Q3378	L3379	R3380	L3381	E3382	A3383	K3384	A3385	E3386	H3387	N3388	E3389	G3390	E3391	L3392	L3393	V3394	R3395	D3396	E3397	F3398	S3399	V3400	L3401	C3402	R3403	D3404	L3405	Y3406	A3407	L3408	Y3409	P3410	L3411	L3412	T3413	R3414	Y3415	V3416	D3417	ALA	GLY	N3418	ASP	ALA	R3420	A3421	H3422	W3423	L3424	T3425	ASP	GLN	GLU	ARG	P3427	N3428	A3429	N3430	A3431	E3432	E3433
L3434	F3435	R3436	M3437	V3438	G3439	E3440	I3441	F3442	I3443	Y3444	K3447	S3448	H3449	N3450	F3451	R3452	Q3456	N3457	F3458	V3459	V3460	Q3461	N3462	E3463	I3464	N3465	N3466	M3467	S3468	F3469	L3470	T3471	D3472	D3473	S3474	K3475	S3476	K3477	M3478	A3479	LYS	ALA	GLY	ASP	ALA	R3420	A3421	H3422	W3423	L3424	T3425	ASP	GLN	GLU	ARG	P3427	N3428	A3429	N3430	A3431	E3432	E3433			
LYS	LYS	R3498	R3499	G3500	D3501	Y3503	S3504	V3505	G3506	T3507	S3508	S3509	L3509	I3510	V3511	M3512	T3513	L3514	K3515	G3516	M3517	I3520	G3521	L3522	N3523	M3524	C3525	A3526	P3527	T3528	D3529	Q3530	D3531	L3532	I3533	M3534	L3535	A3536	K3537	T3538	R3539	Y3540	A3541	L3542	K3543	D3544	T3545	E3547	E3548	V3549	R3550	E3551	F3552	Q3554	N3555	N3556									
L3557	H3558	L3559	Q3560	G3561	K3562	V3563	E3564	G3565	S3566	P3567	S3568	L3569	R3570	W3571	Q3572	M3573	A3574	L3575	Y3576	R3577	G3578	L3579	P3580	G3581	R3582	E3583	E3584	D3585	A3586	D3587	D3588	P3589	E3590	K3591	I3592	V3593	R3594	R3595	V3596	Q3597	E3598	V3599	L3602	L3603	Y3604	H3605	L3606	E3607	Q3608	T3609	E3610	H3611	P3612	Y3613	K3614	S3615	K3616	K3617							
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E3685	E3686	E3687	E3688	E3689	V3690	E3691	E3692	K3693	D3696	P3697	L3698	H3699	Q3700	L3701	V3702	L3703	H3704	F3705	T3708	S3714	K3715	L3716	D3717	E3718	D3719	Y3720	M3723	A3724	Y3725	L3728	M3729	A3730	K3731	S3732	C3733	H3734	L3735	E3736	GLU	GLY	GLY	ASN	GLY	GLU	ALA	N3950	F3951	S3952	K3953	A3954	M3955	S3956	V3957	V3961											
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T3966	I3969	Q3970	G3971	P3972	C3973	L3980	S3983	R3984	L3985	V3986	A3987	S3988	V3989	S3990	F3991	F3992	V3995	F3996	M4000	M4001	K4002	L4003	S4007	S4008	Q4009	I4010	K4014	E4015	L4016	L4017	Q4020	K4021	V4024	V4025	M4026	L4027	L4028	S4029	M4037	A4041	R4042	Q4043	M4044	V4045	V4049																				
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• Molecule 1: Ryanodine receptor 1



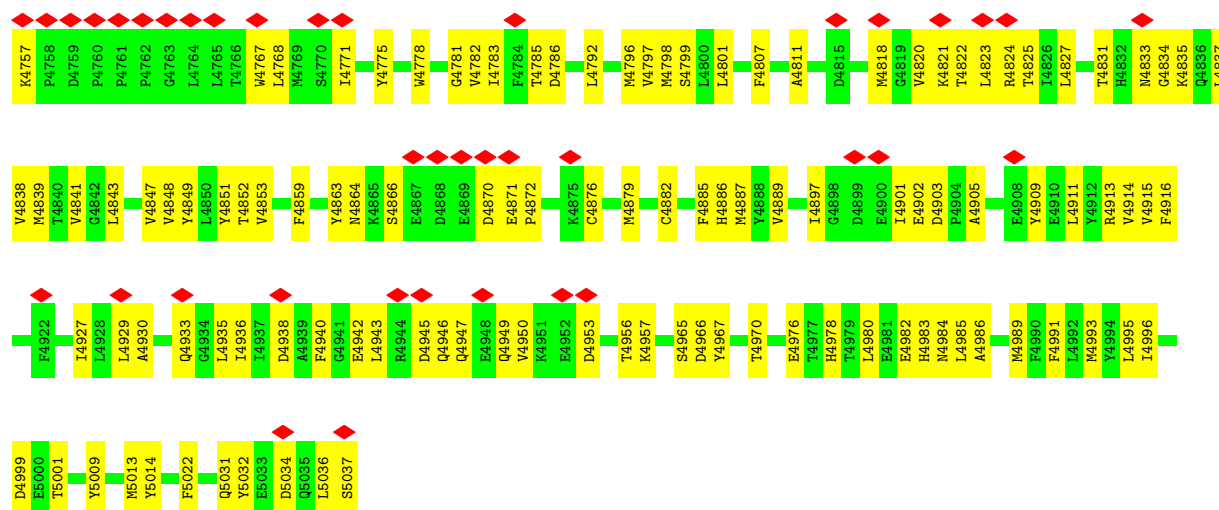
ME1	GLY	ASP	GLY	GLY	GLY	GLY	GLU	GLY	GLU	ASP	E10	E11	Q12	D18	E19	V20	Q23	V28	L29	K30	E31	Q32	L35	C36	G43	L46	C47	E50	N54	A55	Q56	N57	V58	P59	P60	D61	L62	C65	E70	R76	N84	THR	VAL	GLU	ALA	GLY	VAL	GLU	SER										
SER	GLN	GLY	GLY	GLY	H98	L101	L102	R110	H111	A112	R115	M116	Y117	L118	S119	R125	S126	M127	C208	C209	E210	E211	G212	Y213	V214	L220	R221	H224	G225	D226	M227	D228	E229	C230	A311	L231	T232	I233	A236	D237	S238	D239	R242	R243	L244	V245	A326	Y247	C253	T254	R257	G333							
W260	R261	L262	P263	P264	L265	R266	S268	W269	H273	W276	L280	R281	L282	R283	H284	T287	Y290	L291	A292	L293	T294	E295	D296	Q297	G298	L299	V300	V301	K306	T309	K310	A311	T312	R317	V318	S319	K320	E321	K322	L323	D324	T325	G166	A326	P327	K328	R329	D330	V331	E332	G333								
M334	P337	E338	L339	K340	Y341	G342	E343	S344	L345	C346	F347	V348	Q349	H350	G354	L357	A360	A361	P362	D363	P364	K365	A366	L367	R368	L369	G370	V371	L372	K373	K374	K375	A376	I377	L378	E381	G382	H383	M384	D385	D386	A387	L388	F389	R392	E397	S398	Q399	A400	M403	I404								
F414	I415	L418	F421	S422	G423	R426	G427	S428	G429	P430	A431	A432	G433	A435	L443	S444	L445	I449	G450	Y451	E457	E458	L459	E462	E463	R472	N473	R474	Q475	S476	E480	E481	G482	M483	C490	R493	L494	N495	V496	Y497	T498	T499	H502	F503	A504														
E505	Y506	A507	G508	E509	E510	A511	A512	E513	S514	W515	K516	E517	L518	V519	G532	N533	R534	D545	W546	V547	V548	S549	K550	L551	R552	L553	L554	E555	L568	L569	E570	E573	V574	L575	L576	L577	L578	L579	E580	N581	H582	L583	D591	K592	D601	V602	L606	N610	V614	R615									
S616	L620	E623	N624	R629	E630	L631	L632	L633	Q634	L638	S643	N647	T648	F649	V650	G651	R652	A653	E654	G655	S656	T657	Q658	V659	Y663	F664	E665	V666	N667	V668	D669	E670	Q678	L682	R683	V684	L688	T689	E690	G691	V692	S693	P694	V695	P696	G697	G698	G699	E700										
G701	W702	G703	G704	W705	G706	G708	D709	D710	L711	W712	S713	F716	D717	W722	H725	Y726	A727	R728	F729	W730	T731	S732	F733	G734	Q735	H736	L737	L738	E741	D742	V743	W744	S745	L748	D749	L750	F757	R758	W759	C762	G766	V767	F768	E769	A770	F771	N772	L773	D774	G775									
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ARG	THR	GLU	LYS	LYS	LYS	THR	ARG	LYS	ILE	SER	GLN	THR	ALA	GLN	THR	TYR	ASP	PRO	ARG	ARG	GLU	GLY	Y2855	N2856	P2857	Q2858	P2859	P2860	D2861	D2862	D2863	S2864	V2865	T2866	T2867	T2868	T2869	T2870	L2791	R2792	P2793	T2794	P2795	T2796	T2797	S2798	E2799	K2800	D2801	K2802	E2803	L2804	Y2805	R2806	W2807	A2808	K2809	K2810	E2811	S2812	L2813	K2814	A2815	A2816	L2817	A2818	W2819	E2820	W2821	T2822	G2823	E2824	K2825	A2826	R2827	E2828	G2829	E2830	GLU	GLU
D2713	Y2714	V2715	D2716	A2717	S2718	Y2719	S2720	S2721	K2722	A2723	E2724	K2725	LYS	ALA	THR	VAL	ASP	ALA	GLU	GLY	N2734	F2735	F2736	D2737	P2738	P2739	V2740	E2741	Y2742	L2743	N2744	V2745	L2746	L2747	P2748	F2749	K2750	L2751	D2752	Q2753	F2754	L2755	N2756	K2757	F2758	A2759	E2760	Y2761	T2762	H2763	E2764	K2765	W2766	A2767	D2768	D2769	K2770	L2771	Q2772																					
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T2384	R2385	T2386	S2387	E2388	D2389	P2390	A2391	R2392	D2393	G2394	P2395	G2396	V2397	ARG	ARG	ASP	ARG	ARG	ARG	GLU	HIS	PHE	GLY	GLU	GLU	P2410	P2411	E2412	E2413	N2414	R2415	V2416	H2417	L2418	G2419	H2420	F2425	T2430	D2431	Q2434	R2435	C2436	A2437	M2440	H2441	L2442	L2443	Q2444	K2447	G2448	E2449	A2450	L2451	R2452																										
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GLU	LEU	PRO	ALA	GLU	E2088	K2089	K2090	Q2091	Q2092	S2093	L2094	Q2095	E2096	L2097	V2098	M2101	V2102	W2105	D2109	Y2110	Y2111	Q2112	L2116	M2120	F2121	S2122	L2123	Q2127	Y2128	D2129	E2133	L2134	L2135	L2138	P2139	R2140	A2141	Y2142	P2146	V2149	E2150	D2151	T2152	M2153	S2154	L2155	Q2161																																	
E2019	D2020	L2023	P2024	E2025	D2026	L2027	R2028	Q2029	D2030	L2031	Q2032	D2033	F2034	Q2035	Q2036	D2037	L2038	H2041	Q2045	L2046	GLU	GLY	GLU	GLU	GLU	PRO	GLU	GLU	GLU	THR	SER	SER	LEU	ARG	LEU	SER	LEU	VAL	ARG	LEU	VAL	LYS	LYS	LYS	GLU	GLU	LYS	PRO	GLU	GLU																														

V3619	W3620	H3621	K3622	L3623	V3624	S3625	K3626	Q3627	R3628	R3629	R3630	A3631	V3632	W3633	A3634	C3635	F3636	R3637	R3638	T3639	P3640	L3641	Y3642	N3643	L3644	P3645	T3646	H3647	R3648	A3649	C3650	N3651	K3652	F3653	L3654	Y3657	K3658	V3659	S3660	L3603	H3604	H3605	L3606	E3607	Q3608	T3609	E3610	H3611	P3612	Y3613	K3614	S3615	K3616	K3617	A3618							
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LYS	R3498	R3499	Q3500	D3501	R3502	Y3503	S3504	V3505	Q3506	T3507	S3508	L3509	T3510	W3511	M3512	A3513	T3514	L3515	K3516	K3517	L3520	G3521	L3522	N3523	C3524	S3525	A3526	P3527	T3528	D3529	K3530	L3531	L3532	T3533	M3534	L3535	A3536	K3537	R3538	Y3539	Y3540	A3541	L3542	K3543	D3544	T3545	D3546	E3547	E3548	V3549	R3550	E3551	F3552	L3553	Q3554	N3555	N3556	L3557				
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H3013	C3014	L3015	Y3016	F3017	L3018	S3019	T3020	P3021	A3022	K3023	V3024	L3025	G3026	S3027	G3028	G3029	H3030	A3031	S3032	K3033	K3034	E3035	K3036	E3037	M3038	I3039	T3040	S3041	L3042	F3043	C3044	K3045	L3046	A3047	A3048	L3049	V3050	R3051	H3052	K3053	V3054	S3055	L3056	F3057	Q3058	A3059	T3059	D3060	A3061	L3062	L3063	P3064	V3065	V3066	N3067	Q3068	C3067	L3068	Y3069	F3070	L3071	A3072
K2953	R2954	F2955	A2956	F2957	G2958	F2959	L2960	Q2961	Q2962	L2963	L2964	R2965	W2966	M2967	D2968	I2969	S2970	Q2971	E2972	F2973	I2974	A2975	H2976	L2977	E2978	A2979	V2980	V2981	S2982	S2983	G2984	R2985	V2986	E2987	S2988	P2990	H2991	E2992	Q2993	E2994	I2995	K2996	F2997	F2998	A2999	K3000	I3001	L3002	L3003	P3004	L3005	I3006	N3007	Q3008	C3007	L3008	Y3009	F3010	T3011	N3012		
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• Molecule 1: Ryanodine receptor 1

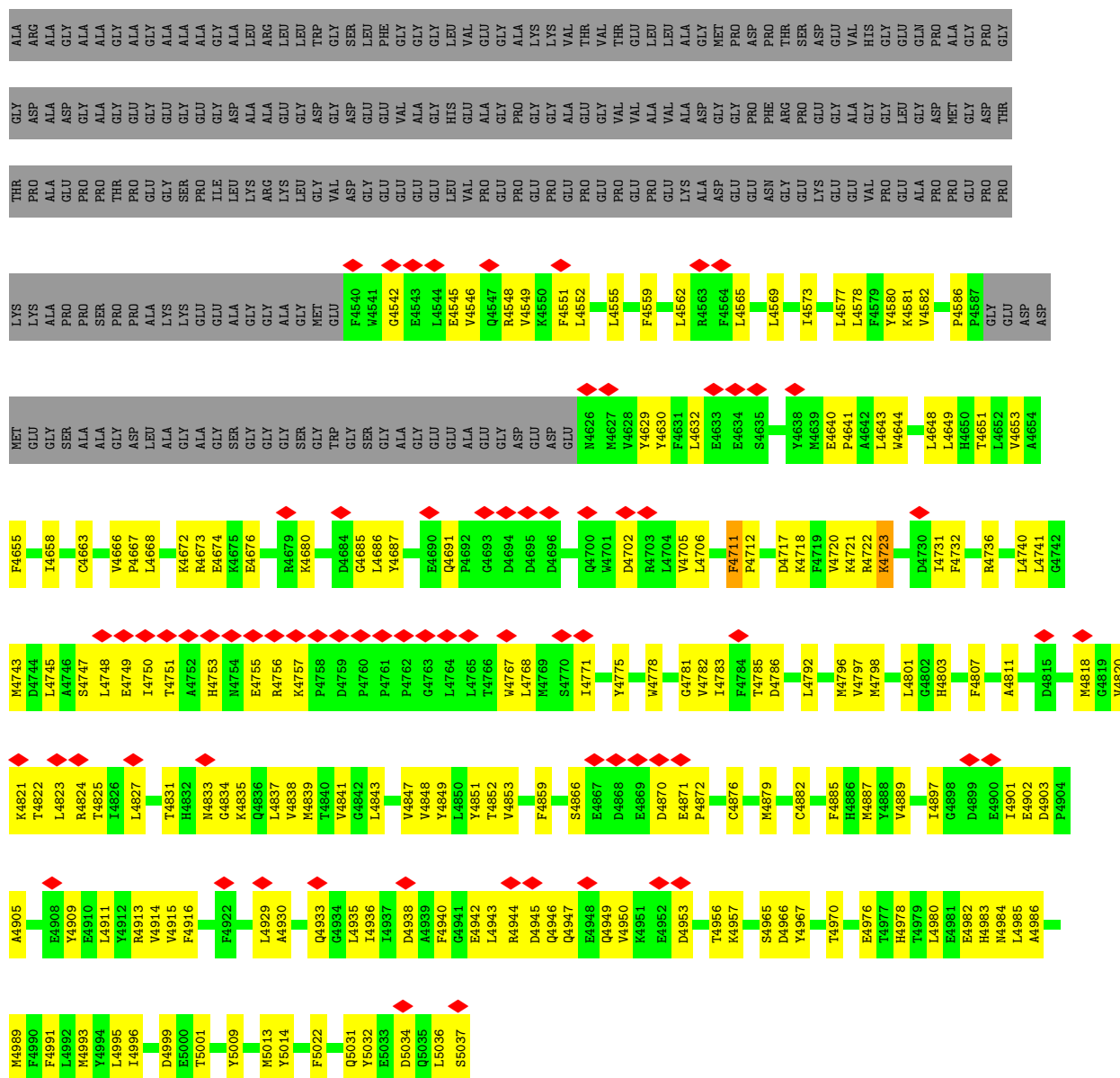




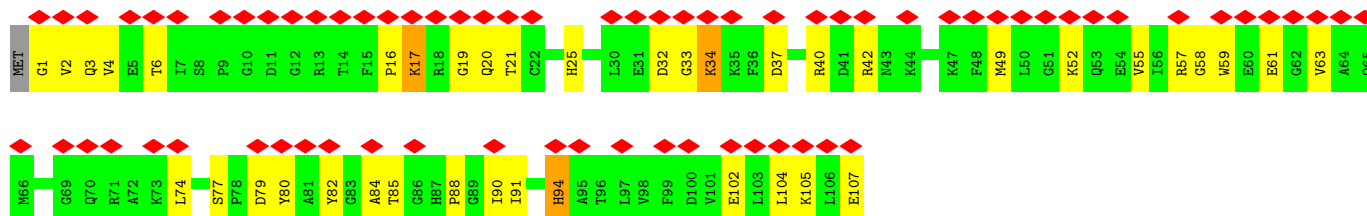
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M2440	H2441	L2442	I2443	Q2444	K2447	G2448	E2449	A2450	R2452	I2453	R2454	R2458	S2459	L2460	V2461	F2462	L2463	D2464	D2465	L2466	V2467	G2468	I2469	L2470	S2471	L2472	P2473	L2474	Q2475	I2476	P2477	T2478	L2479	G2480	K2481	D2482	G2483	A2484	L2485	V2486	Q2487	P2488	K2489	N2490	S2491	A2492	S2493	F2494	P2495	P2496	D2497	H2498	K2499	A2500	S2501	M2502
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GLU	THR	VAL	ARG	LEU	VAL	LYS	LYS	GLU	GLU	PRO	GLU	GLU	GLU	PRO	ALA	GLU	E2088	K2089	K2090	P2091	Q2092	S2093	L2094	Q2095	E2096	L2097	V2098	M2101	V2102	W2105	D2109	Y2110	Q2112	L2116	M2120	F2121	S2122	L2123	Q2127	Y2128	D2129	E2133	L2134	L2135	L2138	P2139	R2140									
P2002	Q2003	E2004	M2008	L2009	L2010	H2011	F2012	K2013	D2014	E2015	A2016	D2017	E2018	E2019	D2020	L2023	P2024	E2025	D2026	I2027	R2028	Q2029	D2030	L2031	Q2032	D2033	H2034	E2035	Q2036	D2037	L2038	Q2045	L2046	GLU	GLY	GLU	GLU	T1985	M1986	S1987	A1988	A1989	E1990	T1991	A1992	SER	SER	ARG	ARG	LEU	LEU					
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R1668	A1577	R1671	L1676	E1583	E1583	E1583	E1584	E1585	E1586	L1698	L1698	E1699	D1700	A1701	H1702	R1703	R1594	P1704	G1705	P1706	L1707	L1707	G1710	Y1711	E1711	Y1712	D1713	L1714	L1715	L1716	L1720	E1721	C1724	R1727	E1733	E1741	T1742	I1745	P1749	P1750	G1751	R1752	K1753	G1754	L1641	G1755	N1756	E1643	E1644	R1645	R1646	C1647	M1648	D1649	D1658	



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ALA	R4202	E4119	M4037	R3949	D3843	ASN	H3667	H3605	D3544	ASP	A3421	T3361
GLY	W4205	N4120	A4041	N3950	L3944	GLY	S3668	L3606	T3545	ALA	H3422	L3362
ALA	E4206	I4123	R4042	S3951	R3849	ALA	D3671	E3607	D3546	SER	W3423	G3363
THR	Q4209	N4124	Q4043	K3953	K3851	GLU	K3672	Q3608	E3547	GLY	L3424	G3364
VAL	V4210	E4127	M4044	M3955	K3852	GLU	M3673	E3610	V3549	SER	T3425	L3365
ALA	F4218	E4129	V4049	S3956	E3854	GLU	A3680	H3611	E3548	ASP	E3426	R3366
GLY	F4219	A4129	S4052	V3961	G3681	GLU	G3682	P3612	R3551	GLN	P3427	K3367
ALA	D4220	N4130	S4053	T3966	E3682	THR	E3683	Y3613	F3552	ARG	N3428	R3368
ALA	V4221	R4131	M4054	Q3970	Q3683	ALA	E3684	K3614	L3553	THR	A3429	A3369
LEU	N4223	E4134	V4055	Q3971	E3685	ALA	E3686	S3615	Q3554	LYS	N3430	G3370
ALA	E4224	P4135	E4057	G3972	E3687	ALA	E3688	K3616	N3555	LYS	A3431	K3371
ALA	G4225	A4136	M4057	L3980	G3774	ALA	E3689	K3617	N3556	LYS	E3432	V3372
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SER	D4240	E4153	D4070	A3988	R3868	ALA	F3696	P3627	L3562	ALA	E3440	E3439
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LEU	I4242	H4156	F4077	V3990	N3870	ALA	H3699	R3629	S3566	ALA	F3442	R3380
ARG	M4245	D4157	Q4078	G3991	G3871	ALA	L3701	R3630	P3567	ALA	Y3444	L3381
ARG	E4253	P4158	D4079	F3992	E3872	ALA	V3702	R3633	S3568	ALA	K3447	A3385
VAL	P4254	R4159	Y4080	V3996	L3874	ALA	L3703	V3632	L3569	ALA	S3448	A3386
ARG	GLY	L4160	V4081	F3996	M3875	ALA	F3705	V3633	R3570	ALA	H3449	A3387
LEU	GLY	N4161	T4082	M4000	A3876	ALA	T3708	A3634	Q3572	ALA	N3450	E3388
ARG	PRO	F4163	P4084	M4001	D3877	ALA	S3714	E3635	L3514	ALA	K3452	E3389
LEU	ARG	L4166	R4085	L4002	D3878	ALA	K3715	R3636	A3574	ALA	R3453	G3390
THR	ALA	E4168	C4086	L4003	R3886	ALA	L3716	R3637	L3575	ALA	Q3456	E3391
ALA	GLY	S4169	S4007	S4008	Q3813	ALA	D3717	M3638	Y3576	ALA	N3457	L3392
GLY	GLY	L4170	Q4009	Q4009	Q3814	ALA	E3718	L3641	G3578	ALA	F3458	L3393
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THR	GLY	F4177	A4096	E4015	E3825	ALA	M3723	L3644	G3581	ALA	Q3461	D3396
ALA	GLY	L4178	M4097	L4016	Q3812	ALA	A3724	L3646	R3582	ALA	N3462	E3397
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					Y3937	ALA	E3736	Y3657	L3592	ALA	D3473	L3408
					K3940	GLY	GLY	K3658	V3593	ALA	S3474	Y3409
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								W3661	R3595	ALA	S3476	L3411
								I3662	V3596	ALA	K3477	L3412
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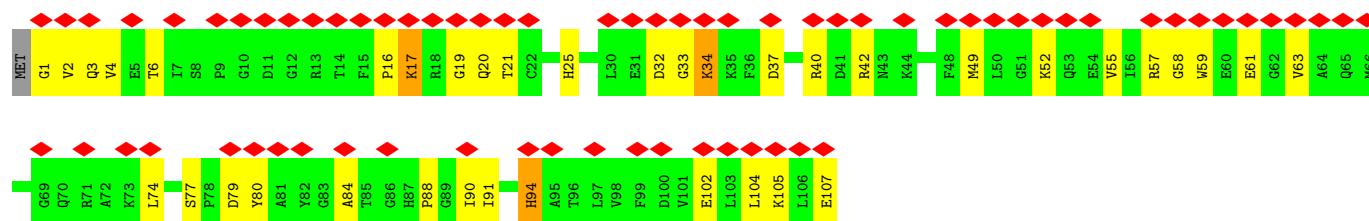


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

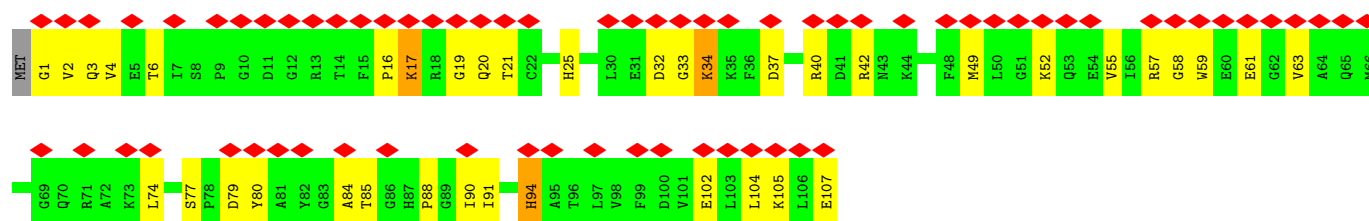


• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A

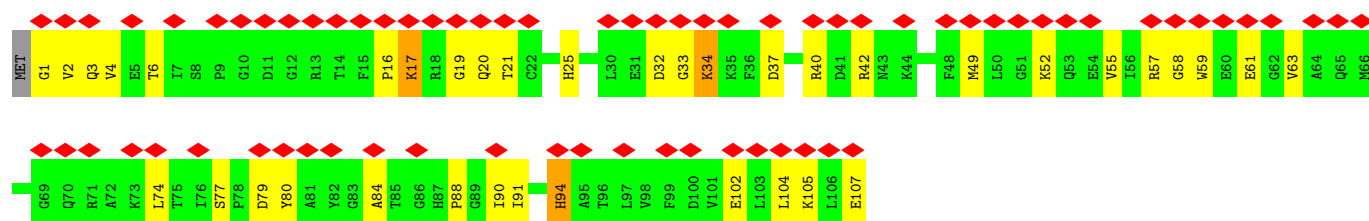




- Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	113183	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.268	Depositor
Minimum map value	-0.112	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	427.008, 427.008, 427.008	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.834, 0.834, 0.834	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.21	1/35977 (0.0%)	0.47	27/48726 (0.1%)
1	B	0.21	1/35977 (0.0%)	0.47	27/48726 (0.1%)
1	C	0.21	1/35977 (0.0%)	0.47	26/48726 (0.1%)
1	D	0.21	1/35977 (0.0%)	0.47	27/48726 (0.1%)
2	E	0.32	0/850	0.81	6/1146 (0.5%)
2	F	0.32	0/850	0.81	6/1146 (0.5%)
2	G	0.32	0/850	0.81	6/1146 (0.5%)
2	H	0.32	0/850	0.81	6/1146 (0.5%)
All	All	0.22	4/147308 (0.0%)	0.48	131/199488 (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	6
1	B	0	6
1	C	0	6
1	D	0	6
All	All	0	24

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2440	MET	SD-CE	5.18	1.92	1.79
1	C	2440	MET	SD-CE	5.18	1.92	1.79
1	A	2440	MET	SD-CE	5.17	1.92	1.79
1	D	2440	MET	SD-CE	5.17	1.92	1.79

All (131) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	3622	LYS	CB-CG-CD	14.01	143.52	111.30
1	B	3622	LYS	CB-CG-CD	14.00	143.51	111.30
1	C	3622	LYS	CB-CG-CD	14.00	143.51	111.30
1	D	3622	LYS	CB-CG-CD	13.98	143.46	111.30
1	A	3622	LYS	CG-CD-CE	13.35	142.01	111.30
1	B	3622	LYS	CG-CD-CE	13.34	141.98	111.30
1	C	3622	LYS	CG-CD-CE	13.34	141.98	111.30
1	D	3622	LYS	CG-CD-CE	13.33	141.97	111.30
2	E	105	LYS	CD-CE-NZ	-9.84	80.40	111.90
2	F	105	LYS	CD-CE-NZ	-9.84	80.42	111.90
2	G	105	LYS	CD-CE-NZ	-9.83	80.44	111.90
2	H	105	LYS	CD-CE-NZ	-9.82	80.47	111.90
2	F	34	LYS	CD-CE-NZ	9.40	141.97	111.90
2	G	34	LYS	CD-CE-NZ	9.39	141.96	111.90
2	H	34	LYS	CD-CE-NZ	9.39	141.95	111.90
2	E	34	LYS	CD-CE-NZ	9.38	141.93	111.90
1	D	960	MET	CB-CG-SD	8.76	138.99	112.70
1	A	960	MET	CB-CG-SD	8.76	138.98	112.70
1	C	960	MET	CB-CG-SD	8.76	138.98	112.70
1	B	960	MET	CB-CG-SD	8.75	138.96	112.70
2	F	17	LYS	CB-CG-CD	8.54	130.95	111.30
2	G	17	LYS	CB-CG-CD	8.54	130.94	111.30
2	H	17	LYS	CB-CG-CD	8.53	130.93	111.30
2	E	17	LYS	CB-CG-CD	8.53	130.91	111.30
1	D	960	MET	CA-CB-CG	7.78	129.66	114.10
1	B	960	MET	CA-CB-CG	7.77	129.64	114.10
1	A	960	MET	CA-CB-CG	7.75	129.61	114.10
1	C	960	MET	CA-CB-CG	7.75	129.59	114.10
2	E	17	LYS	CG-CD-CE	7.21	127.88	111.30
2	H	17	LYS	CG-CD-CE	7.21	127.88	111.30
2	G	17	LYS	CG-CD-CE	7.20	127.87	111.30
2	F	17	LYS	CG-CD-CE	7.18	127.83	111.30
2	G	105	LYS	CG-CD-CE	7.03	127.47	111.30
2	H	105	LYS	CG-CD-CE	7.03	127.46	111.30
2	E	105	LYS	CG-CD-CE	7.02	127.45	111.30
2	F	105	LYS	CG-CD-CE	7.02	127.44	111.30
1	A	3856	LEU	CB-CG-CD2	6.96	131.57	110.70
1	B	3856	LEU	CB-CG-CD2	6.96	131.57	110.70
1	C	3856	LEU	CB-CG-CD2	6.96	131.57	110.70
1	D	3856	LEU	CB-CG-CD2	6.95	131.56	110.70
1	D	2440	MET	N-CA-C	-6.84	104.41	112.89
1	C	2440	MET	N-CA-C	-6.83	104.43	112.89
1	A	2440	MET	N-CA-C	-6.81	104.44	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2440	MET	N-CA-C	-6.79	104.46	112.89
1	A	4723	LYS	CD-CE-NZ	6.67	133.23	111.90
1	C	4723	LYS	CD-CE-NZ	6.67	133.24	111.90
1	D	4723	LYS	CD-CE-NZ	6.66	133.22	111.90
1	B	4723	LYS	CD-CE-NZ	6.65	133.18	111.90
1	B	3622	LYS	CD-CE-NZ	-6.27	91.85	111.90
1	D	3622	LYS	CD-CE-NZ	-6.27	91.85	111.90
1	C	3622	LYS	CD-CE-NZ	-6.27	91.85	111.90
1	A	3622	LYS	CD-CE-NZ	-6.26	91.87	111.90
1	C	3437	MET	CB-CG-SD	6.25	131.46	112.70
1	B	3437	MET	CB-CG-SD	6.25	131.45	112.70
1	A	3437	MET	CB-CG-SD	6.24	131.42	112.70
1	D	3437	MET	CB-CG-SD	6.23	131.39	112.70
1	D	4161	ARG	CG-CD-NE	6.16	125.54	112.00
1	C	4161	ARG	CG-CD-NE	6.16	125.54	112.00
2	F	34	LYS	CG-CD-CE	6.15	125.44	111.30
2	G	34	LYS	CG-CD-CE	6.14	125.42	111.30
2	E	34	LYS	CG-CD-CE	6.14	125.42	111.30
1	A	4161	ARG	CG-CD-NE	6.13	125.49	112.00
2	H	34	LYS	CG-CD-CE	6.13	125.40	111.30
1	B	4161	ARG	CG-CD-NE	6.12	125.48	112.00
1	B	236	ALA	CA-C-N	6.03	132.01	122.61
1	B	236	ALA	C-N-CA	6.03	132.01	122.61
1	C	236	ALA	CA-C-N	6.02	132.00	122.61
1	C	236	ALA	C-N-CA	6.02	132.00	122.61
1	D	236	ALA	CA-C-N	5.97	131.92	122.61
1	D	236	ALA	C-N-CA	5.97	131.92	122.61
1	D	3856	LEU	CB-CG-CD1	-5.70	93.62	110.70
1	B	3856	LEU	CB-CG-CD1	-5.69	93.62	110.70
1	A	3856	LEU	CB-CG-CD1	-5.69	93.64	110.70
1	C	3856	LEU	CB-CG-CD1	-5.68	93.66	110.70
1	A	3793	MET	CB-CG-SD	-5.63	95.81	112.70
1	D	3793	MET	CB-CG-SD	-5.63	95.81	112.70
1	C	3793	MET	CB-CG-SD	-5.63	95.81	112.70
1	B	3793	MET	CB-CG-SD	-5.62	95.85	112.70
1	D	1579	MET	N-CA-CB	-5.59	101.85	110.13
1	A	1579	MET	N-CA-CB	-5.56	101.90	110.13
1	C	1579	MET	N-CA-CB	-5.56	101.90	110.13
1	D	1636	MET	CB-CG-SD	5.56	129.37	112.70
1	A	1636	MET	CB-CG-SD	5.55	129.35	112.70
1	C	1636	MET	CB-CG-SD	5.54	129.33	112.70
1	B	1636	MET	CB-CG-SD	5.54	129.31	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1579	MET	N-CA-CB	-5.54	101.94	110.13
1	B	960	MET	CA-C-N	5.51	131.38	122.29
1	B	960	MET	C-N-CA	5.51	131.38	122.29
1	C	960	MET	CA-C-N	5.51	131.38	122.29
1	C	960	MET	C-N-CA	5.51	131.38	122.29
1	A	960	MET	CA-C-N	5.49	131.35	122.29
1	A	960	MET	C-N-CA	5.49	131.35	122.29
1	D	960	MET	CA-C-N	5.47	131.31	122.29
1	D	960	MET	C-N-CA	5.47	131.31	122.29
1	A	236	ALA	CA-C-N	5.46	131.96	121.54
1	A	236	ALA	C-N-CA	5.46	131.96	121.54
1	C	3856	LEU	CD1-CG-CD2	-5.35	99.03	110.80
1	D	4057	MET	CB-CG-SD	5.35	128.74	112.70
1	D	3856	LEU	CD1-CG-CD2	-5.34	99.05	110.80
1	A	3856	LEU	CD1-CG-CD2	-5.34	99.06	110.80
1	A	4057	MET	CB-CG-SD	5.33	128.70	112.70
1	B	4057	MET	CB-CG-SD	5.33	128.70	112.70
1	C	4057	MET	CB-CG-SD	5.33	128.70	112.70
1	D	2440	MET	CB-CG-SD	-5.33	96.71	112.70
1	A	2440	MET	CB-CG-SD	-5.32	96.75	112.70
1	B	3856	LEU	CD1-CG-CD2	-5.32	99.11	110.80
1	B	2440	MET	CB-CG-SD	-5.31	96.76	112.70
1	C	2440	MET	CB-CG-SD	-5.31	96.76	112.70
1	B	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	C	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	A	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	D	2440	MET	CG-SD-CE	-5.23	89.39	100.90
1	D	2481	LYS	CA-C-N	5.17	130.19	122.74
1	D	2481	LYS	C-N-CA	5.17	130.19	122.74
1	C	2481	LYS	CA-C-N	5.16	130.18	122.74
1	C	2481	LYS	C-N-CA	5.16	130.18	122.74
1	A	2481	LYS	CA-C-N	5.14	130.14	122.74
1	A	2481	LYS	C-N-CA	5.14	130.14	122.74
1	B	2481	LYS	CA-C-N	5.14	130.14	122.74
1	B	2481	LYS	C-N-CA	5.14	130.14	122.74
1	A	4156	HIS	CA-C-N	5.05	130.10	122.42
1	A	4156	HIS	C-N-CA	5.05	130.10	122.42
1	D	4156	HIS	CA-C-N	5.03	130.07	122.42
1	D	4156	HIS	C-N-CA	5.03	130.07	122.42
1	C	4156	HIS	CA-C-N	5.03	130.07	122.42
1	C	4156	HIS	C-N-CA	5.03	130.07	122.42
1	B	4156	HIS	CA-C-N	5.03	130.07	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	4156	HIS	C-N-CA	5.03	130.07	122.42
1	B	2816	MET	CG-SD-CE	-5.01	89.88	100.90
1	A	2816	MET	CG-SD-CE	-5.00	89.90	100.90
1	D	2816	MET	CG-SD-CE	-5.00	89.90	100.90

There are no chirality outliers.

All (24) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1025	ARG	Sidechain
1	A	2702	CYS	Peptide
1	A	3196	ARG	Sidechain
1	A	3366	ARG	Sidechain
1	A	3436	ARG	Sidechain
1	A	3637	ARG	Sidechain
1	B	1025	ARG	Sidechain
1	B	2702	CYS	Peptide
1	B	3196	ARG	Sidechain
1	B	3366	ARG	Sidechain
1	B	3436	ARG	Sidechain
1	B	3637	ARG	Sidechain
1	C	1025	ARG	Sidechain
1	C	2702	CYS	Peptide
1	C	3196	ARG	Sidechain
1	C	3366	ARG	Sidechain
1	C	3436	ARG	Sidechain
1	C	3637	ARG	Sidechain
1	D	1025	ARG	Sidechain
1	D	2702	CYS	Peptide
1	D	3196	ARG	Sidechain
1	D	3366	ARG	Sidechain
1	D	3436	ARG	Sidechain
1	D	3637	ARG	Sidechain

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	35150	0	34795	1578	0
1	B	35150	0	34795	1574	0
1	C	35150	0	34795	1594	0
1	D	35150	0	34795	1595	0
2	E	831	0	831	45	0
2	F	831	0	831	43	0
2	G	831	0	831	44	0
2	H	831	0	831	43	0
3	A	31	0	12	0	0
3	B	31	0	12	0	0
3	C	31	0	12	0	0
3	D	31	0	12	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	18	0	0	3	0
6	B	18	0	0	3	0
6	C	18	0	0	3	0
6	D	18	0	0	3	0
All	All	144128	0	142552	6434	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 22.

All (6434) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3365:LEU:HD11	1:D:3405:LEU:HD23	1.43	1.00
1:B:899:ASP:OD1	1:B:902:ARG:NH2	1.95	0.99
1:B:3308:THR:OG1	1:B:3310:ASP:OD1	1.80	0.99
1:A:899:ASP:OD1	1:A:902:ARG:NH2	1.95	0.99
1:C:899:ASP:OD1	1:C:902:ARG:NH2	1.95	0.99
1:D:3308:THR:OG1	1:D:3310:ASP:OD1	1.80	0.98
1:C:4949:GLN:NE2	1:C:4953:ASP:OD2	1.97	0.98
1:D:899:ASP:OD1	1:D:902:ARG:NH2	1.95	0.98
1:A:3308:THR:OG1	1:A:3310:ASP:OD1	1.80	0.98
1:B:3365:LEU:HD11	1:B:3405:LEU:HD23	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3365:LEU:HD11	1:A:3405:LEU:HD23	1.43	0.97
1:D:4949:GLN:NE2	1:D:4953:ASP:OD2	1.97	0.97
1:C:3308:THR:OG1	1:C:3310:ASP:OD1	1.80	0.97
1:A:4949:GLN:NE2	1:A:4953:ASP:OD2	1.97	0.97
1:B:4949:GLN:NE2	1:B:4953:ASP:OD2	1.97	0.97
1:D:886:ARG:NH1	1:D:889:GLN:OE1	1.98	0.97
1:C:2035:HIS:HD1	1:C:3657:TYR:HH	1.08	0.97
1:C:2393:ASP:OD2	1:C:2415:ARG:NH1	1.98	0.97
1:C:3365:LEU:HD11	1:C:3405:LEU:HD23	1.43	0.96
1:B:886:ARG:NH1	1:B:889:GLN:OE1	1.98	0.96
1:B:2393:ASP:OD2	1:B:2415:ARG:NH1	1.98	0.96
1:C:886:ARG:NH1	1:C:889:GLN:OE1	1.98	0.96
1:A:2393:ASP:OD2	1:A:2415:ARG:NH1	1.98	0.96
1:C:2752:ASP:OD1	1:C:2810:LYS:NZ	1.99	0.96
1:A:2752:ASP:OD1	1:A:2810:LYS:NZ	1.99	0.95
1:D:2393:ASP:OD2	1:D:2415:ARG:NH1	1.98	0.95
1:A:886:ARG:NH1	1:A:889:GLN:OE1	1.98	0.95
1:A:221:ARG:NH1	1:A:253:CYS:O	2.00	0.95
1:D:221:ARG:NH1	1:D:253:CYS:O	2.00	0.95
1:D:4176:PRO:O	1:D:4202:ARG:NH2	2.00	0.95
1:A:4176:PRO:O	1:A:4202:ARG:NH2	2.00	0.95
1:B:2752:ASP:OD1	1:B:2810:LYS:NZ	1.99	0.95
1:B:4176:PRO:O	1:B:4202:ARG:NH2	2.00	0.94
1:C:221:ARG:NH1	1:C:253:CYS:O	2.00	0.94
1:B:2702:CYS:SG	1:B:2704:CYS:N	2.41	0.94
1:A:2309:SER:OG	1:A:2321:ILE:O	1.86	0.94
1:B:221:ARG:NH1	1:B:253:CYS:O	2.00	0.94
1:C:4176:PRO:O	1:C:4202:ARG:NH2	2.00	0.94
1:D:2702:CYS:SG	1:D:2704:CYS:N	2.41	0.94
1:D:2752:ASP:OD1	1:D:2810:LYS:NZ	1.99	0.93
1:A:2702:CYS:SG	1:A:2704:CYS:N	2.41	0.93
1:D:2035:HIS:HD1	1:D:3657:TYR:HH	1.14	0.93
1:D:5036:LEU:O	1:D:5037:SER:OG	1.87	0.93
1:C:2309:SER:OG	1:C:2321:ILE:O	1.86	0.93
1:C:2702:CYS:SG	1:C:2704:CYS:N	2.41	0.93
1:B:5036:LEU:O	1:B:5037:SER:OG	1.87	0.93
1:D:2582:MET:HE1	1:D:2610:LEU:HD13	1.51	0.92
1:B:2582:MET:HE1	1:B:2610:LEU:HD13	1.51	0.92
1:D:2309:SER:OG	1:D:2321:ILE:O	1.86	0.92
1:B:2309:SER:OG	1:B:2321:ILE:O	1.86	0.92
1:C:3181:THR:HG22	1:C:3185:LYS:HZ3	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5036:LEU:O	1:C:5037:SER:OG	1.87	0.91
1:D:2230:THR:OG1	1:D:2268[B]:GLN:OE1	1.87	0.91
1:C:1156:THR:OG1	1:C:1157:GLU:OE1	1.89	0.91
1:A:5036:LEU:O	1:A:5037:SER:OG	1.87	0.91
1:B:2230:THR:OG1	1:B:2268[B]:GLN:OE1	1.87	0.91
1:C:1454:THR:OG1	1:C:1456:ASP:OD1	1.89	0.91
1:B:3181:THR:HG22	1:B:3185:LYS:HZ3	1.34	0.91
1:C:2230:THR:OG1	1:C:2268[B]:GLN:OE1	1.87	0.91
1:A:3052:HIS:NE2	1:A:3128:ASN:OD1	2.04	0.91
1:D:1454:THR:OG1	1:D:1456:ASP:OD1	1.89	0.90
1:C:3141:THR:HG1	1:C:3193:CYS:HG	1.12	0.90
1:A:177:GLU:O	1:D:2359:ARG:NH2	2.04	0.90
1:B:3052:HIS:NE2	1:B:3128:ASN:OD1	2.04	0.90
1:A:2230:THR:OG1	1:A:2268[B]:GLN:OE1	1.87	0.90
1:B:1454:THR:OG1	1:B:1456:ASP:OD1	1.89	0.90
1:C:2582:MET:HE1	1:C:2610:LEU:HD13	1.51	0.90
1:D:3181:THR:HG22	1:D:3185:LYS:HZ3	1.34	0.90
1:B:1156:THR:OG1	1:B:1157:GLU:OE1	1.89	0.90
1:D:1156:THR:OG1	1:D:1157:GLU:OE1	1.89	0.90
1:A:1454:THR:OG1	1:A:1456:ASP:OD1	1.89	0.90
1:A:1156:THR:OG1	1:A:1157:GLU:OE1	1.89	0.89
1:D:3052:HIS:NE2	1:D:3128:ASN:OD1	2.04	0.89
1:C:601:ASP:OD1	1:C:1668:ARG:NH2	2.05	0.89
1:D:601:ASP:OD1	1:D:1668:ARG:NH2	2.05	0.89
1:C:728:ARG:NH2	1:C:1489:CYS:SG	2.46	0.89
1:D:728:ARG:NH2	1:D:1489:CYS:SG	2.46	0.89
1:C:3052:HIS:NE2	1:C:3128:ASN:OD1	2.05	0.89
1:A:2230:THR:OG1	1:A:2268[A]:GLN:OE1	1.91	0.89
1:A:3181:THR:HG22	1:A:3185:LYS:HZ3	1.38	0.89
1:A:495:ASN:OD1	1:A:553:ARG:NH1	2.06	0.88
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.05	0.88
1:A:2582:MET:HE1	1:A:2610:LEU:HD13	1.51	0.88
1:B:728:ARG:NH2	1:B:1489:CYS:SG	2.46	0.88
1:A:266:ARG:NH1	1:A:268:SER:O	2.07	0.88
1:A:601:ASP:OD1	1:A:1668:ARG:NH2	2.05	0.88
1:B:495:ASN:OD1	1:B:553:ARG:NH1	2.06	0.88
1:D:266:ARG:NH1	1:D:268:SER:O	2.07	0.88
1:C:495:ASN:OD1	1:C:553:ARG:NH1	2.06	0.88
1:D:495:ASN:OD1	1:D:553:ARG:NH1	2.06	0.88
1:C:2230:THR:OG1	1:C:2268[A]:GLN:OE1	1.91	0.88
1:B:1987:SER:O	1:B:1991:THR:OG1	1.91	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2230:THR:OG1	1:B:2268[A]:GLN:OE1	1.91	0.88
1:D:1987:SER:O	1:D:1991:THR:OG1	1.91	0.88
1:C:266:ARG:NH1	1:C:268:SER:O	2.07	0.88
1:C:1987:SER:O	1:C:1991:THR:OG1	1.91	0.88
1:D:1252:HIS:O	1:D:1275:ARG:NH2	2.07	0.87
1:A:2359:ARG:NH2	1:B:177:GLU:O	2.08	0.87
1:B:1252:HIS:O	1:B:1275:ARG:NH2	2.07	0.87
1:A:728:ARG:NH2	1:A:1489:CYS:SG	2.46	0.87
1:D:177:GLU:O	1:C:2359:ARG:NH2	2.06	0.87
1:C:2725:LYS:NZ	1:C:2734:ASN:O	2.08	0.87
1:D:2230:THR:OG1	1:D:2268[A]:GLN:OE1	1.91	0.87
1:B:2668:SER:OG	1:B:2671:GLU:OE1	1.93	0.87
1:C:1252:HIS:O	1:C:1275:ARG:NH2	2.07	0.87
1:A:1112:ASP:OD1	1:A:1113:VAL:N	2.08	0.87
1:A:2288:LEU:O	1:A:3849:ARG:NH1	2.08	0.87
1:D:1112:ASP:OD1	1:D:1113:VAL:N	2.08	0.87
1:D:3181:THR:HG22	1:D:3185:LYS:NZ	1.90	0.87
1:A:1987:SER:O	1:A:1991:THR:OG1	1.91	0.86
1:D:2288:LEU:O	1:D:3849:ARG:NH1	2.08	0.86
1:B:266:ARG:NH1	1:B:268:SER:O	2.07	0.86
1:B:2359:ARG:NH2	1:C:177:GLU:O	2.07	0.86
1:A:3868:ARG:NH1	1:A:3870:ASN:OD1	2.08	0.86
1:A:2035:HIS:HD1	1:A:3657:TYR:HH	1.23	0.86
1:B:3141:THR:OG1	1:B:3193:CYS:SG	2.32	0.86
1:B:2288:LEU:O	1:B:3849:ARG:NH1	2.08	0.86
1:C:2668:SER:OG	1:C:2671:GLU:OE1	1.93	0.86
1:C:3181:THR:HG22	1:C:3185:LYS:NZ	1.90	0.86
1:B:3181:THR:HG22	1:B:3185:LYS:NZ	1.90	0.86
1:B:3868:ARG:NH1	1:B:3870:ASN:OD1	2.08	0.86
1:A:3181:THR:HG22	1:A:3185:LYS:NZ	1.90	0.86
1:C:3868:ARG:NH1	1:C:3870:ASN:OD1	2.08	0.86
1:B:2725:LYS:NZ	1:B:2734:ASN:O	2.08	0.85
1:C:2288:LEU:O	1:C:3849:ARG:NH1	2.08	0.85
1:C:3777:GLU:O	1:C:3781:GLN:NE2	2.09	0.85
1:A:1252:HIS:O	1:A:1275:ARG:NH2	2.07	0.85
1:A:4902:GLU:O	1:A:4913:ARG:NH1	2.09	0.85
1:D:2725:LYS:NZ	1:D:2734:ASN:O	2.08	0.85
1:D:4902:GLU:O	1:D:4913:ARG:NH1	2.09	0.85
1:A:3777:GLU:O	1:A:3781:GLN:NE2	2.09	0.85
1:D:3868:ARG:NH1	1:D:3870:ASN:OD1	2.08	0.85
1:A:3141:THR:HG1	1:A:3193:CYS:HG	1.18	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2035:HIS:HD1	1:B:3657:TYR:HH	1.22	0.85
1:B:4902:GLU:O	1:B:4913:ARG:NH1	2.09	0.85
1:D:2461:VAL:O	1:D:2510:TYR:OH	1.94	0.85
1:C:4902:GLU:O	1:C:4913:ARG:NH1	2.09	0.85
1:B:1112:ASP:OD1	1:B:1113:VAL:N	2.08	0.85
1:D:3777:GLU:O	1:D:3781:GLN:NE2	2.09	0.85
1:A:2668:SER:OG	1:A:2671:GLU:OE1	1.93	0.85
1:A:2725:LYS:NZ	1:A:2734:ASN:O	2.08	0.85
1:C:1112:ASP:OD1	1:C:1113:VAL:N	2.08	0.85
1:A:2461:VAL:O	1:A:2510:TYR:OH	1.94	0.84
1:D:2526:PHE:HB3	1:D:2530:MET:HE1	1.60	0.84
1:C:3141:THR:OG1	1:C:3193:CYS:SG	2.32	0.84
1:B:3154:ASP:OD1	1:B:3283:ARG:NH2	2.11	0.84
1:B:3777:GLU:O	1:B:3781:GLN:NE2	2.09	0.84
1:C:2461:VAL:O	1:C:2510:TYR:OH	1.94	0.84
1:A:1027:LEU:O	1:A:1032:LYS:NZ	2.11	0.84
1:B:2461:VAL:O	1:B:2510:TYR:OH	1.94	0.84
1:B:3566:SER:HG	1:B:3568:SER:HG	0.87	0.84
1:D:2668:SER:OG	1:D:2671:GLU:OE1	1.93	0.84
1:C:4069:LYS:NZ	1:C:4130:ASN:OD1	2.11	0.84
1:B:2592:GLY:O	1:B:2600:ARG:NH2	2.11	0.84
1:B:2897:LYS:NZ	1:B:2899:GLY:O	2.10	0.84
1:D:769:GLU:OE2	1:D:1475:THR:OG1	1.94	0.84
1:C:2526:PHE:HB3	1:C:2530:MET:HE1	1.60	0.84
1:C:2592:GLY:O	1:C:2600:ARG:NH2	2.11	0.84
1:A:2897:LYS:NZ	1:A:2899:GLY:O	2.10	0.84
1:A:3154:ASP:OD1	1:A:3283:ARG:NH2	2.11	0.84
1:D:2592:GLY:O	1:D:2600:ARG:NH2	2.11	0.84
1:A:2592:GLY:O	1:A:2600:ARG:NH2	2.11	0.84
1:A:4069:LYS:NZ	1:A:4130:ASN:OD1	2.11	0.84
1:B:3141:THR:HG1	1:B:3193:CYS:HG	1.19	0.84
1:D:221:ARG:NH2	1:D:397:GLU:OE2	2.11	0.84
1:A:221:ARG:NH2	1:A:397:GLU:OE2	2.11	0.84
1:A:1207:ASP:OD2	1:A:1209:SER:OG	1.95	0.84
1:D:2897:LYS:NZ	1:D:2899:GLY:O	2.10	0.84
1:D:4069:LYS:NZ	1:D:4130:ASN:OD1	2.11	0.84
1:C:769:GLU:OE2	1:C:1475:THR:OG1	1.94	0.84
1:C:2897:LYS:NZ	1:C:2899:GLY:O	2.10	0.84
1:B:1027:LEU:O	1:B:1032:LYS:NZ	2.11	0.83
1:D:3141:THR:OG1	1:D:3193:CYS:SG	2.32	0.83
1:B:4069:LYS:NZ	1:B:4130:ASN:OD1	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1207:ASP:OD2	1:D:1209:SER:OG	1.96	0.83
1:C:1027:LEU:O	1:C:1032:LYS:NZ	2.11	0.83
1:C:1207:ASP:OD2	1:C:1209:SER:OG	1.95	0.83
1:B:3048:ALA:O	1:B:3053:ARG:NH2	2.11	0.83
1:A:769:GLU:OE2	1:A:1475:THR:OG1	1.94	0.83
1:B:1207:ASP:OD2	1:B:1209:SER:OG	1.95	0.83
1:D:1027:LEU:O	1:D:1032:LYS:NZ	2.11	0.83
1:B:3588:ASP:OD2	1:B:3591:LYS:NZ	2.12	0.83
1:C:2308:GLN:O	1:C:2324:ASN:N	2.11	0.83
1:C:3048:ALA:O	1:C:3053:ARG:NH2	2.11	0.83
1:D:2308:GLN:O	1:D:2324:ASN:N	2.11	0.83
1:B:769:GLU:OE2	1:B:1475:THR:OG1	1.94	0.83
1:B:2308:GLN:O	1:B:2324:ASN:N	2.11	0.83
1:A:1422:ASP:OD2	1:A:1568:LYS:NZ	2.12	0.83
1:A:3588:ASP:OD2	1:A:3591:LYS:NZ	2.12	0.83
1:C:221:ARG:NH2	1:C:397:GLU:OE2	2.11	0.83
1:A:2308:GLN:O	1:A:2324:ASN:N	2.11	0.82
1:A:3141:THR:OG1	1:A:3193:CYS:SG	2.32	0.82
1:A:3566:SER:HG	1:A:3568:SER:HG	0.85	0.82
1:D:1422:ASP:OD2	1:D:1568:LYS:NZ	2.12	0.82
1:D:3048:ALA:O	1:D:3053:ARG:NH2	2.11	0.82
1:D:3154:ASP:OD1	1:D:3283:ARG:NH2	2.11	0.82
1:C:3588:ASP:OD2	1:C:3591:LYS:NZ	2.12	0.82
1:A:2526:PHE:HB3	1:A:2530:MET:HE1	1.60	0.82
1:B:2526:PHE:HB3	1:B:2530:MET:HE1	1.60	0.82
1:C:3154:ASP:OD1	1:C:3283:ARG:NH2	2.11	0.82
1:A:112:ALA:O	1:A:115:ARG:NH1	2.13	0.82
1:A:3048:ALA:O	1:A:3053:ARG:NH2	2.11	0.82
1:D:112:ALA:O	1:D:115:ARG:NH1	2.13	0.82
1:B:3262:ARG:NH1	1:B:3325:ASN:O	2.13	0.82
1:D:28:VAL:HG23	1:D:29:LEU:HD23	1.62	0.82
1:C:3262:ARG:NH1	1:C:3325:ASN:O	2.13	0.82
1:B:3539:ARG:NH2	1:B:3548:GLU:OE2	2.13	0.82
1:A:3262:ARG:NH1	1:A:3325:ASN:O	2.13	0.82
1:A:3539:ARG:NH2	1:A:3548:GLU:OE2	2.13	0.81
1:B:221:ARG:NH2	1:B:397:GLU:OE2	2.11	0.81
1:A:4991:PHE:O	1:A:4995:LEU:HD12	1.80	0.81
1:B:1422:ASP:OD2	1:B:1568:LYS:NZ	2.12	0.81
1:B:112:ALA:O	1:B:115:ARG:NH1	2.13	0.81
1:C:28:VAL:HG23	1:C:29:LEU:HD23	1.62	0.81
1:B:2582:MET:CE	1:B:2610:LEU:HD13	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:112:ALA:O	1:C:115:ARG:NH1	2.13	0.81
1:B:3210:LEU:HD13	1:B:3304:CYS:O	1.80	0.81
1:B:4991:PHE:O	1:B:4995:LEU:HD12	1.80	0.81
1:D:3210:LEU:HD13	1:D:3304:CYS:O	1.80	0.81
1:C:4991:PHE:O	1:C:4995:LEU:HD12	1.80	0.81
1:B:2093:SER:OG	1:B:2096:GLU:OE1	1.99	0.81
1:D:2859:PRO:HB3	1:D:2932:MET:SD	2.21	0.81
1:C:2859:PRO:HB3	1:C:2932:MET:SD	2.21	0.81
1:A:2582:MET:CE	1:A:2610:LEU:HD13	2.11	0.81
1:D:3539:ARG:NH2	1:D:3548:GLU:OE2	2.13	0.81
1:C:1422:ASP:OD2	1:C:1568:LYS:NZ	2.12	0.81
1:C:3210:LEU:HD13	1:C:3304:CYS:O	1.80	0.81
1:A:28:VAL:HG23	1:A:29:LEU:HD23	1.62	0.81
1:C:3539:ARG:NH2	1:C:3548:GLU:OE2	2.13	0.81
1:D:2974:ILE:HD13	1:D:3049:LEU:HD12	1.63	0.80
1:D:3262:ARG:NH1	1:D:3325:ASN:O	2.13	0.80
1:D:3588:ASP:OD2	1:D:3591:LYS:NZ	2.12	0.80
1:A:5014:TYR:OH	6:A:5304:A1BD2:O2	2.00	0.80
1:B:2974:ILE:HD13	1:B:3049:LEU:HD12	1.63	0.80
1:C:2582:MET:CE	1:C:2610:LEU:HD13	2.11	0.80
1:A:3210:LEU:HD13	1:A:3304:CYS:O	1.80	0.80
1:B:2030:ASP:OD1	1:B:2031:LEU:N	2.15	0.80
1:C:3235:SER:OG	1:C:3237:GLU:OE1	1.99	0.80
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.64	0.80
1:D:2582:MET:CE	1:D:2610:LEU:HD13	2.11	0.80
1:D:3235:SER:OG	1:D:3237:GLU:OE1	1.99	0.80
1:A:2030:ASP:OD1	1:A:2031:LEU:N	2.15	0.80
1:A:2093:SER:OG	1:A:2096:GLU:OE1	1.99	0.80
1:A:2859:PRO:HB3	1:A:2932:MET:SD	2.21	0.80
1:A:2410:PRO:HG3	1:A:2415:ARG:HB2	1.64	0.80
1:B:173:SER:HG	1:B:176:SER:HG	0.80	0.80
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.64	0.80
1:D:2030:ASP:OD1	1:D:2031:LEU:N	2.15	0.80
1:C:2684:ASP:OD1	1:C:2685:SER:N	2.15	0.80
1:A:2974:ILE:HD13	1:A:3049:LEU:HD12	1.63	0.79
1:D:4991:PHE:O	1:D:4995:LEU:HD12	1.80	0.79
1:A:2684:ASP:OD1	1:A:2685:SER:N	2.15	0.79
1:B:2684:ASP:OD1	1:B:2685:SER:N	2.15	0.79
1:B:2859:PRO:HB3	1:B:2932:MET:SD	2.21	0.79
1:D:2410:PRO:HG3	1:D:2415:ARG:HB2	1.64	0.79
1:C:2030:ASP:OD1	1:C:2031:LEU:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3284:TRP:O	1:A:3305:THR:HG21	1.82	0.79
1:C:2093:SER:OG	1:C:2096:GLU:OE1	1.99	0.79
1:B:28:VAL:HG23	1:B:29:LEU:HD23	1.62	0.79
1:D:3097:GLU:O	1:D:3100:SER:OG	2.00	0.79
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.01	0.79
1:D:2093:SER:OG	1:D:2096:GLU:OE1	1.99	0.79
1:C:2974:ILE:HD13	1:C:3049:LEU:HD12	1.63	0.79
1:C:5014:TYR:OH	6:C:5304:A1BD2:O2	2.00	0.79
1:D:2214:VAL:HG21	1:D:2228:MET:HE2	1.64	0.79
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.64	0.79
1:C:2214:VAL:HG21	1:C:2228:MET:HE2	1.64	0.79
1:D:140:ASP:OD2	1:D:142:THR:OG1	2.01	0.79
1:D:2684:ASP:OD1	1:D:2685:SER:N	2.15	0.79
1:D:3284:TRP:O	1:D:3305:THR:HG21	1.82	0.79
1:A:3235:SER:OG	1:A:3237:GLU:OE1	1.99	0.78
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.64	0.78
1:C:3284:TRP:O	1:C:3305:THR:HG21	1.82	0.78
1:B:5014:TYR:OH	6:B:5304:A1BD2:O2	2.00	0.78
1:B:2410:PRO:HG3	1:B:2415:ARG:HB2	1.64	0.78
1:D:3566:SER:HG	1:D:3568:SER:HG	0.81	0.78
1:D:5014:TYR:OH	6:D:5304:A1BD2:O2	2.00	0.78
1:B:2214:VAL:HG21	1:B:2228:MET:HE2	1.64	0.78
1:B:4027:LEU:HD22	1:B:4044:MET:HE2	1.66	0.78
1:C:2410:PRO:HG3	1:C:2415:ARG:HB2	1.64	0.78
1:C:3566:SER:HG	1:C:3568:SER:HG	0.79	0.78
1:A:140:ASP:OD2	1:A:142:THR:OG1	2.01	0.78
1:B:140:ASP:OD2	1:B:142:THR:OG1	2.01	0.78
1:B:1269:CYS:SG	1:B:1563:GLN:NE2	2.57	0.78
1:B:3284:TRP:O	1:B:3305:THR:HG21	1.82	0.78
1:D:4021:LYS:O	1:D:4025:VAL:HG23	1.84	0.78
1:A:4027:LEU:HD22	1:A:4044:MET:HE2	1.66	0.78
1:A:4021:LYS:O	1:A:4025:VAL:HG23	1.84	0.78
1:C:1269:CYS:SG	1:C:1563:GLN:NE2	2.57	0.78
1:C:3351:PRO:HA	1:C:3415:TYR:OH	1.84	0.78
1:A:2747:ILE:HG21	1:A:2814:LYS:HG2	1.66	0.77
1:B:3235:SER:OG	1:B:3237:GLU:OE1	1.99	0.77
1:A:3097:GLU:O	1:A:3100:SER:OG	2.00	0.77
1:B:2747:ILE:HG21	1:B:2814:LYS:HG2	1.66	0.77
1:D:173:SER:HG	1:D:176:SER:HG	0.79	0.77
1:C:144:GLU:OE2	1:C:174:VAL:HG12	1.84	0.77
1:C:4021:LYS:O	1:C:4025:VAL:HG23	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2214:VAL:HG21	1:A:2228:MET:HE2	1.64	0.77
1:D:144:GLU:OE2	1:D:174:VAL:HG12	1.84	0.77
1:A:144:GLU:OE2	1:A:174:VAL:HG12	1.84	0.77
1:D:4027:LEU:HD22	1:D:4044:MET:HE2	1.66	0.77
1:D:2668:SER:O	1:D:2669:GLU:HG3	1.85	0.77
1:D:3351:PRO:HA	1:D:3415:TYR:OH	1.84	0.77
1:C:2751:LEU:HD22	1:C:2817:ILE:HD11	1.66	0.77
1:B:3351:PRO:HA	1:B:3415:TYR:OH	1.84	0.77
1:C:2668:SER:O	1:C:2669:GLU:HG3	1.85	0.77
1:A:2674:LEU:HA	1:A:2677:LYS:HE2	1.67	0.77
1:B:144:GLU:OE2	1:B:174:VAL:HG12	1.84	0.77
1:D:3762:ARG:NH1	1:D:4755:GLU:OE1	2.18	0.77
1:C:4027:LEU:HD22	1:C:4044:MET:HE2	1.66	0.77
1:A:879:HIS:CE1	1:A:906:CYS:HG	2.02	0.77
1:A:1276:THR:O	1:A:1279:SER:OG	2.03	0.77
1:A:3270:ILE:HG23	1:A:3338:LEU:HD13	1.67	0.77
1:A:3762:ARG:NH1	1:A:4755:GLU:OE1	2.18	0.77
1:B:1276:THR:O	1:B:1279:SER:OG	2.03	0.77
1:C:2674:LEU:HA	1:C:2677:LYS:HE2	1.67	0.77
1:B:4687:TYR:O	1:B:4691:GLN:NE2	2.18	0.77
1:D:2674:LEU:HA	1:D:2677:LYS:HE2	1.67	0.77
1:D:2679:PHE:CE1	1:D:2703:LEU:HD13	2.20	0.77
1:A:2668:SER:O	1:A:2669:GLU:HG3	1.85	0.76
1:D:2751:LEU:HD22	1:D:2817:ILE:HD11	1.66	0.76
1:B:1973:GLN:OE1	1:B:3641:LEU:N	2.18	0.76
1:B:4021:LYS:O	1:B:4025:VAL:HG23	1.84	0.76
1:C:4137:ARG:NH2	1:C:4199:GLU:OE2	2.18	0.76
1:A:1973:GLN:OE1	1:A:3641:LEU:N	2.18	0.76
1:A:4137:ARG:NH2	1:A:4199:GLU:OE2	2.18	0.76
1:A:4687:TYR:O	1:A:4691:GLN:NE2	2.18	0.76
1:B:1003:GLN:O	1:B:1016:ARG:NH2	2.19	0.76
1:B:3762:ARG:NH1	1:B:4755:GLU:OE1	2.18	0.76
1:D:3249:LEU:HD23	1:D:3277:LEU:HD12	1.67	0.76
1:C:1003:GLN:O	1:C:1016:ARG:NH2	2.18	0.76
1:C:1644:GLU:OE1	1:C:1646:ARG:NH2	2.19	0.76
1:A:1269:CYS:SG	1:A:1563:GLN:NE2	2.57	0.76
1:B:3249:LEU:HD23	1:B:3277:LEU:HD12	1.67	0.76
1:B:3376:GLU:OE2	1:B:3448:SER:OG	2.03	0.76
1:C:3270:ILE:HG23	1:C:3338:LEU:HD13	1.67	0.76
1:C:3376:GLU:OE2	1:C:3448:SER:OG	2.03	0.76
1:B:2679:PHE:CE1	1:B:2703:LEU:HD13	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1644:GLU:OE1	1:D:1646:ARG:NH2	2.19	0.76
1:C:1973:GLN:OE1	1:C:3641:LEU:N	2.18	0.76
1:A:183:SER:O	1:A:186:SER:OG	2.03	0.76
1:A:3366:ARG:NE	1:A:3440:GLU:OE1	2.19	0.76
1:B:1644:GLU:OE1	1:B:1646:ARG:NH2	2.19	0.76
1:B:2668:SER:O	1:B:2669:GLU:HG3	1.85	0.76
1:D:1003:GLN:O	1:D:1016:ARG:NH2	2.18	0.76
1:C:3762:ARG:NH1	1:C:4755:GLU:OE1	2.18	0.76
1:C:4687:TYR:O	1:C:4691:GLN:NE2	2.18	0.76
1:A:1644:GLU:OE1	1:A:1646:ARG:NH2	2.19	0.76
1:A:4578:LEU:O	1:B:4879:MET:HB2	1.85	0.76
1:B:2674:LEU:HA	1:B:2677:LYS:HE2	1.67	0.76
1:B:3097:GLU:O	1:B:3100:SER:OG	2.00	0.76
1:D:4687:TYR:O	1:D:4691:GLN:NE2	2.18	0.76
1:B:3366:ARG:NE	1:B:3440:GLU:OE1	2.19	0.76
1:C:891:TRP:O	1:C:959:TYR:OH	2.04	0.76
1:C:2679:PHE:CE1	1:C:2703:LEU:HD13	2.20	0.76
1:C:3097:GLU:O	1:C:3100:SER:OG	2.00	0.76
1:C:3249:LEU:HD23	1:C:3277:LEU:HD12	1.67	0.76
1:A:2679:PHE:CE1	1:A:2703:LEU:HD13	2.20	0.76
1:B:183:SER:O	1:B:186:SER:OG	2.03	0.76
1:D:3366:ARG:NE	1:D:3440:GLU:OE1	2.19	0.76
1:B:891:TRP:O	1:B:959:TYR:OH	2.04	0.76
1:B:1720:LEU:HD23	1:B:1851:MET:CE	2.16	0.76
1:B:3270:ILE:HG23	1:B:3338:LEU:HD13	1.67	0.76
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.20	0.76
1:D:183:SER:O	1:D:186:SER:OG	2.03	0.76
1:C:2747:ILE:HG21	1:C:2814:LYS:HG2	1.66	0.76
1:B:3566:SER:OG	1:B:3568:SER:OG	1.98	0.75
1:D:1269:CYS:SG	1:D:1563:GLN:NE2	2.57	0.75
1:D:3270:ILE:HG23	1:D:3338:LEU:HD13	1.67	0.75
1:A:1003:GLN:O	1:A:1016:ARG:NH2	2.19	0.75
1:D:972:LEU:O	1:D:1044:ARG:NH2	2.20	0.75
1:C:2196:ASN:OD1	1:C:2199:ARG:NH1	2.20	0.75
1:A:972:LEU:O	1:A:1044:ARG:NH2	2.20	0.75
1:B:4137:ARG:NH2	1:B:4199:GLU:OE2	2.18	0.75
1:D:2747:ILE:HG21	1:D:2814:LYS:HG2	1.66	0.75
1:A:3351:PRO:HA	1:A:3415:TYR:OH	1.84	0.75
1:B:872:GLU:HA	1:B:922:LEU:HD11	1.69	0.75
1:B:2035:HIS:ND1	1:B:3657:TYR:OH	2.17	0.75
1:C:1276:THR:O	1:C:1279:SER:OG	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3376:GLU:OE2	1:A:3448:SER:OG	2.03	0.75
1:D:872:GLU:HA	1:D:922:LEU:HD11	1.69	0.75
1:C:1263:THR:OG1	1:C:1266:THR:OG1	2.03	0.75
1:C:1720:LEU:HD23	1:C:1851:MET:CE	2.16	0.75
1:A:2035:HIS:ND1	1:A:3657:TYR:OH	2.17	0.75
1:A:3946:GLN:OE1	1:A:3949:ARG:NH2	2.19	0.75
1:B:2751:LEU:HD22	1:B:2817:ILE:HD11	1.66	0.75
1:B:139:GLU:OE1	1:B:139:GLU:N	2.20	0.75
1:D:1276:THR:O	1:D:1279:SER:OG	2.03	0.75
1:D:1973:GLN:OE1	1:D:3641:LEU:N	2.18	0.75
1:D:4137:ARG:NH2	1:D:4199:GLU:OE2	2.18	0.75
1:A:139:GLU:OE1	1:A:139:GLU:N	2.20	0.75
1:A:3249:LEU:HD23	1:A:3277:LEU:HD12	1.67	0.75
1:B:879:HIS:CE1	1:B:906:CYS:HG	2.04	0.75
1:B:2196:ASN:OD1	1:B:2199:ARG:NH1	2.20	0.75
1:D:2196:ASN:OD1	1:D:2199:ARG:NH1	2.20	0.75
1:C:183:SER:O	1:C:186:SER:OG	2.03	0.75
1:C:872:GLU:HA	1:C:922:LEU:HD11	1.69	0.75
1:C:3946:GLN:OE1	1:C:3949:ARG:NH2	2.20	0.75
1:A:2196:ASN:OD1	1:A:2199:ARG:NH1	2.20	0.74
1:D:1720:LEU:HD23	1:D:1851:MET:CE	2.16	0.74
1:D:2481:LYS:O	1:D:2482:ASP:OD1	2.05	0.74
1:A:2751:LEU:HD22	1:A:2817:ILE:HD11	1.66	0.74
1:D:233:ILE:O	1:D:257:ARG:NH2	2.20	0.74
1:D:3946:GLN:OE1	1:D:3949:ARG:NH2	2.19	0.74
1:C:139:GLU:OE1	1:C:139:GLU:N	2.20	0.74
1:C:233:ILE:O	1:C:257:ARG:NH2	2.20	0.74
1:A:909:ASN:ND2	1:A:965:TYR:CE2	2.55	0.74
1:C:173:SER:HG	1:C:176:SER:HG	0.75	0.74
1:C:3141:THR:HG23	1:C:3196:ARG:HG3	1.69	0.74
1:C:3366:ARG:NE	1:C:3440:GLU:OE1	2.19	0.74
1:A:872:GLU:HA	1:A:922:LEU:HD11	1.69	0.74
1:D:620:LEU:O	1:D:624:ASN:ND2	2.21	0.74
1:C:972:LEU:O	1:C:1044:ARG:NH2	2.20	0.74
1:D:1241:SER:HA	1:D:1603:VAL:HG22	1.70	0.74
1:D:4071:ILE:HG21	1:D:4097:MET:HE1	1.70	0.74
1:C:3366:ARG:NH2	1:C:3437:MET:HG2	2.02	0.74
1:C:4162:ASN:OD1	1:C:4163:PHE:N	2.21	0.74
1:B:3366:ARG:NH2	1:B:3437:MET:HG2	2.02	0.74
1:A:620:LEU:O	1:A:624:ASN:ND2	2.21	0.74
1:A:891:TRP:O	1:A:959:TYR:OH	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3141:THR:HG23	1:B:3196:ARG:HG3	1.69	0.74
1:C:1241:SER:HA	1:C:1603:VAL:HG22	1.70	0.74
1:B:4162:ASN:OD1	1:B:4163:PHE:N	2.21	0.74
1:A:4071:ILE:HG21	1:A:4097:MET:HE1	1.70	0.74
1:B:1579:MET:HE1	1:B:1595:LEU:HD22	1.70	0.74
1:B:4071:ILE:HG21	1:B:4097:MET:HE1	1.70	0.74
1:D:909:ASN:ND2	1:D:965:TYR:CE2	2.55	0.74
1:D:3366:ARG:NH2	1:D:3437:MET:HG2	2.02	0.74
1:C:1579:MET:HE1	1:C:1595:LEU:HD22	1.70	0.74
1:C:2481:LYS:O	1:C:2482:ASP:OD1	2.05	0.74
1:A:233:ILE:O	1:A:257:ARG:NH2	2.20	0.74
1:A:4162:ASN:OD1	1:A:4163:PHE:N	2.21	0.74
1:B:909:ASN:ND2	1:B:965:TYR:CE2	2.55	0.74
1:B:972:LEU:O	1:B:1044:ARG:NH2	2.20	0.74
1:D:4162:ASN:OD1	1:D:4163:PHE:N	2.21	0.74
1:C:879:HIS:CE1	1:C:906:CYS:HG	2.05	0.74
1:C:909:ASN:ND2	1:C:965:TYR:CE2	2.55	0.74
1:C:4071:ILE:HG21	1:C:4097:MET:HE1	1.70	0.74
1:A:1720:LEU:HD23	1:A:1851:MET:CE	2.16	0.73
1:A:3207:GLU:OE1	1:A:3207:GLU:N	2.21	0.73
1:A:3771:HIS:O	1:A:3815:LYS:NZ	2.21	0.73
1:A:4717:ASP:OD2	1:A:4723:LYS:NZ	2.21	0.73
1:B:233:ILE:O	1:B:257:ARG:NH2	2.20	0.73
1:D:891:TRP:O	1:D:959:TYR:OH	2.04	0.73
1:D:1579:MET:HE1	1:D:1595:LEU:HD22	1.70	0.73
1:D:1617:THR:HG22	1:D:1628:VAL:HG12	1.70	0.73
1:D:4706:LEU:HD13	1:D:4740:LEU:HD21	1.70	0.73
1:C:4099:SER:O	1:C:4101:LYS:NZ	2.21	0.73
1:A:669:ASP:OD2	1:A:788:LYS:NZ	2.21	0.73
1:A:3384:LYS:O	1:A:3387:ALA:N	2.22	0.73
1:C:1579:MET:HE2	1:C:1580:PHE:CE1	2.23	0.73
1:A:1579:MET:HE2	1:A:1580:PHE:CE1	2.24	0.73
1:B:3207:GLU:OE1	1:B:3207:GLU:N	2.21	0.73
1:B:2481:LYS:O	1:B:2482:ASP:OD1	2.05	0.73
1:D:2615:ARG:NH2	1:D:2664:PHE:O	2.22	0.73
1:A:1241:SER:HA	1:A:1603:VAL:HG22	1.70	0.73
1:B:2615:ARG:NH2	1:B:2664:PHE:O	2.22	0.73
1:D:3376:GLU:OE2	1:D:3448:SER:OG	2.03	0.73
1:C:310:LYS:O	1:C:350:HIS:NE2	2.21	0.73
1:C:4885:PHE:CE2	1:C:4897:ILE:HD11	2.24	0.73
1:A:310:LYS:O	1:A:350:HIS:NE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3366:ARG:NH2	1:A:3437:MET:HG2	2.03	0.73
1:A:4885:PHE:CE2	1:A:4897:ILE:HD11	2.24	0.73
1:B:4885:PHE:CE2	1:B:4897:ILE:HD11	2.24	0.73
1:B:3771:HIS:O	1:B:3815:LYS:NZ	2.21	0.73
1:B:4885:PHE:O	1:B:4889:VAL:HG22	1.89	0.73
1:D:4157:ASP:N	1:D:4161:ARG:HH12	1.87	0.73
1:C:620:LEU:O	1:C:624:ASN:ND2	2.21	0.73
1:C:2615:ARG:NH2	1:C:2664:PHE:O	2.22	0.73
1:A:2481:LYS:O	1:A:2482:ASP:OD1	2.05	0.73
1:B:1617:THR:HG22	1:B:1628:VAL:HG12	1.70	0.73
1:A:3336:LYS:NZ	1:A:3462:ASN:OD1	2.22	0.73
1:A:3996:PHE:HD1	1:A:4016:LEU:HD11	1.54	0.73
1:A:4885:PHE:O	1:A:4889:VAL:HG22	1.89	0.73
1:B:620:LEU:O	1:B:624:ASN:ND2	2.21	0.73
1:B:4717:ASP:OD2	1:B:4723:LYS:NZ	2.21	0.73
1:A:2830:GLU:N	1:A:2830:GLU:OE1	2.22	0.73
1:A:3141:THR:HG23	1:A:3196:ARG:HG3	1.69	0.73
1:B:2490:MET:HE3	1:B:2545:GLU:OE2	1.89	0.73
1:D:2830:GLU:N	1:D:2830:GLU:OE1	2.22	0.73
1:D:3384:LYS:O	1:D:3387:ALA:N	2.21	0.73
1:C:1617:THR:HG22	1:C:1628:VAL:HG12	1.70	0.73
1:A:2675:THR:HG21	1:A:2710:LEU:HD21	1.71	0.72
1:A:3270:ILE:HG21	1:A:3334:TRP:CE3	2.24	0.72
1:B:1241:SER:HA	1:B:1603:VAL:HG22	1.70	0.72
1:B:1263:THR:OG1	1:B:1266:THR:OG1	2.03	0.72
1:D:3141:THR:HG23	1:D:3196:ARG:HG3	1.69	0.72
1:D:3771:HIS:O	1:D:3815:LYS:NZ	2.21	0.72
1:D:4885:PHE:O	1:D:4889:VAL:HG22	1.89	0.72
1:A:2674:LEU:HD23	1:A:2677:LYS:NZ	2.04	0.72
1:D:139:GLU:N	1:D:139:GLU:OE1	2.20	0.72
1:D:1579:MET:HE2	1:D:1580:PHE:CE1	2.23	0.72
1:D:4885:PHE:CE2	1:D:4897:ILE:HD11	2.24	0.72
1:A:2490:MET:HE3	1:A:2545:GLU:OE2	1.89	0.72
1:B:1579:MET:HE2	1:B:1580:PHE:CE1	2.23	0.72
1:B:3336:LYS:NZ	1:B:3462:ASN:OD1	2.22	0.72
1:B:3996:PHE:HD1	1:B:4016:LEU:HD11	1.54	0.72
1:B:4099:SER:O	1:B:4101:LYS:NZ	2.21	0.72
1:D:1561:VAL:HG12	1:D:1562:ILE:HG23	1.70	0.72
1:B:669:ASP:OD2	1:B:788:LYS:NZ	2.21	0.72
1:B:4157:ASP:H	1:B:4161:ARG:HH12	1.36	0.72
1:A:2615:ARG:NH2	1:A:2664:PHE:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4157:ASP:N	1:A:4161:ARG:HH12	1.87	0.72
1:B:1561:VAL:HG12	1:B:1562:ILE:HG23	1.70	0.72
1:B:2830:GLU:OE1	1:B:2830:GLU:N	2.22	0.72
1:D:2675:THR:HG21	1:D:2710:LEU:HD21	1.71	0.72
1:C:3771:HIS:O	1:C:3815:LYS:NZ	2.21	0.72
1:C:3996:PHE:HD1	1:C:4016:LEU:HD11	1.54	0.72
2:G:21:THR:OG1	2:G:49:MET:SD	2.47	0.72
1:B:1102:VAL:HG11	1:B:1149:VAL:HG11	1.71	0.72
1:B:2674:LEU:HD23	1:B:2677:LYS:NZ	2.04	0.72
1:B:3384:LYS:O	1:B:3387:ALA:N	2.21	0.72
1:C:2490:MET:HE3	1:C:2545:GLU:OE2	1.89	0.72
1:C:2674:LEU:HD23	1:C:2677:LYS:NZ	2.04	0.72
1:C:3324:VAL:HG11	1:C:3361:THR:HG22	1.71	0.72
1:C:4157:ASP:N	1:C:4161:ARG:HH12	1.87	0.72
1:A:4706:LEU:HD13	1:A:4740:LEU:HD21	1.70	0.72
1:D:2674:LEU:HD23	1:D:2677:LYS:NZ	2.04	0.72
1:C:669:ASP:OD2	1:C:788:LYS:NZ	2.21	0.72
1:B:310:LYS:O	1:B:350:HIS:NE2	2.21	0.72
1:B:2675:THR:HG21	1:B:2710:LEU:HD21	1.72	0.72
1:D:669:ASP:OD2	1:D:788:LYS:NZ	2.21	0.72
1:D:3207:GLU:N	1:D:3207:GLU:OE1	2.21	0.72
1:D:3336:LYS:NZ	1:D:3462:ASN:OD1	2.22	0.72
1:C:2830:GLU:OE1	1:C:2830:GLU:N	2.22	0.72
1:C:3336:LYS:NZ	1:C:3462:ASN:OD1	2.22	0.72
1:B:2890:LYS:O	1:B:2894:LEU:HD13	1.90	0.72
1:D:310:LYS:O	1:D:350:HIS:NE2	2.21	0.72
1:D:3270:ILE:HG21	1:D:3334:TRP:CE3	2.24	0.72
1:D:3324:VAL:HG11	1:D:3361:THR:HG22	1.71	0.72
1:D:4717:ASP:OD2	1:D:4723:LYS:NZ	2.21	0.72
1:C:3270:ILE:HG21	1:C:3334:TRP:CE3	2.24	0.72
1:C:4157:ASP:H	1:C:4161:ARG:HH12	1.36	0.72
1:A:1561:VAL:HG12	1:A:1562:ILE:HG23	1.70	0.72
1:A:1579:MET:HE1	1:A:1595:LEU:HD22	1.70	0.72
1:A:4747:SER:O	1:A:4751:THR:HG23	1.90	0.72
1:D:2609:ALA:O	1:D:2612[A]:ARG:NH1	2.23	0.72
1:C:4885:PHE:O	1:C:4889:VAL:HG22	1.89	0.72
1:D:2490:MET:HE3	1:D:2545:GLU:OE2	1.89	0.71
1:D:3705:PHE:HB2	1:D:3778:MET:HE2	1.72	0.71
1:C:1102:VAL:HG11	1:C:1149:VAL:HG11	1.71	0.71
1:C:1561:VAL:HG12	1:C:1562:ILE:HG23	1.70	0.71
1:C:3207:GLU:OE1	1:C:3207:GLU:N	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4747:SER:O	1:C:4751:THR:HG23	1.90	0.71
1:A:1263:THR:OG1	1:A:1266:THR:OG1	2.03	0.71
1:A:1617:THR:HG22	1:A:1628:VAL:HG12	1.70	0.71
1:A:2890:LYS:O	1:A:2894:LEU:HD13	1.90	0.71
1:B:4706:LEU:HD13	1:B:4740:LEU:HD21	1.70	0.71
1:B:4989:MET:SD	1:B:4993:MET:HE2	2.31	0.71
1:D:1102:VAL:HG11	1:D:1149:VAL:HG11	1.71	0.71
1:D:4747:SER:O	1:D:4751:THR:HG23	1.90	0.71
1:A:4989:MET:SD	1:A:4993:MET:HE2	2.31	0.71
1:D:3996:PHE:HD1	1:D:4016:LEU:HD11	1.54	0.71
1:C:3705:PHE:HB2	1:C:3778:MET:HE2	1.72	0.71
1:C:4717:ASP:OD2	1:C:4723:LYS:NZ	2.21	0.71
1:B:4157:ASP:N	1:B:4161:ARG:HH12	1.87	0.71
1:B:4747:SER:O	1:B:4751:THR:HG23	1.90	0.71
1:D:4989:MET:SD	1:D:4993:MET:HE2	2.31	0.71
1:C:3384:LYS:O	1:C:3387:ALA:N	2.22	0.71
1:A:874:LEU:HD22	1:A:1046:LEU:HD21	1.72	0.71
1:A:1102:VAL:HG11	1:A:1149:VAL:HG11	1.71	0.71
1:A:4839:MET:CE	1:D:4820:VAL:HG11	2.21	0.71
1:D:879:HIS:CE1	1:D:906:CYS:HG	2.09	0.71
1:C:4989:MET:SD	1:C:4993:MET:HE2	2.31	0.71
1:A:3365:LEU:HD11	1:A:3405:LEU:CD2	2.20	0.71
1:B:3324:VAL:HG11	1:B:3361:THR:HG22	1.71	0.71
1:D:4157:ASP:H	1:D:4161:ARG:HH12	1.36	0.71
1:C:3456:GLN:OE1	1:C:3499:ARG:NH2	2.24	0.71
1:C:4706:LEU:HD13	1:C:4740:LEU:HD21	1.70	0.71
1:A:236:ALA:O	1:A:237:ASP:OD1	2.09	0.71
1:A:3324:VAL:HG11	1:A:3361:THR:HG22	1.71	0.71
1:A:4157:ASP:H	1:A:4161:ARG:HH12	1.36	0.71
1:B:874:LEU:HD22	1:B:1046:LEU:HD21	1.73	0.71
1:B:2530:MET:SD	1:B:2554:LEU:HD22	2.31	0.71
1:B:3270:ILE:HG21	1:B:3334:TRP:CE3	2.24	0.71
1:B:3456:GLN:OE1	1:B:3499:ARG:NH2	2.24	0.71
1:C:236:ALA:O	1:C:237:ASP:OD1	2.09	0.71
1:A:633:LEU:HD22	1:A:1639:LEU:HD21	1.73	0.71
1:C:2675:THR:HG21	1:C:2710:LEU:HD21	1.72	0.71
1:A:2530:MET:SD	1:A:2554:LEU:HD22	2.31	0.71
2:H:77:SER:OG	2:H:79:ASP:OD1	2.09	0.71
1:B:236:ALA:O	1:B:237:ASP:OD1	2.09	0.71
1:D:236:ALA:O	1:D:237:ASP:OD1	2.09	0.71
1:C:577:ILE:O	1:C:579:GLN:NE2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2530:MET:SD	1:C:2554:LEU:HD22	2.31	0.71
1:C:2609:ALA:O	1:C:2612[A]:ARG:NH1	2.23	0.71
1:A:3456:GLN:OE1	1:A:3499:ARG:NH2	2.24	0.70
1:B:2609:ALA:O	1:B:2612[A]:ARG:NH1	2.23	0.70
1:D:577:ILE:O	1:D:579:GLN:NE2	2.24	0.70
1:D:3456:GLN:OE1	1:D:3499:ARG:NH2	2.24	0.70
1:A:3719:ASP:H	1:A:3793:MET:CE	2.05	0.70
1:B:973:SER:O	1:B:976:ARG:NH1	2.24	0.70
1:B:3705:PHE:HB2	1:B:3778:MET:HE2	1.72	0.70
1:B:3719:ASP:H	1:B:3793:MET:CE	2.05	0.70
1:C:1290:ARG:HD2	1:C:1549:PHE:CB	2.21	0.70
1:B:577:ILE:O	1:B:579:GLN:NE2	2.24	0.70
1:B:1290:ARG:HD2	1:B:1549:PHE:CB	2.21	0.70
1:D:1263:THR:OG1	1:D:1266:THR:OG1	2.03	0.70
1:D:1754:GLY:O	1:D:1758:ARG:N	2.24	0.70
1:C:3719:ASP:H	1:C:3793:MET:CE	2.05	0.70
1:A:1671:ARG:NH1	1:A:1710:GLY:O	2.24	0.70
1:C:2890:LYS:O	1:C:2894:LEU:HD13	1.90	0.70
1:A:4241:THR:HG22	1:A:4245:MET:SD	2.32	0.70
1:B:4241:THR:HG22	1:B:4245:MET:SD	2.32	0.70
1:D:973:SER:O	1:D:976:ARG:NH1	2.24	0.70
1:D:1671:ARG:NH1	1:D:1710:GLY:O	2.24	0.70
1:D:2890:LYS:O	1:D:2894:LEU:HD13	1.90	0.70
1:D:3719:ASP:H	1:D:3793:MET:CE	2.05	0.70
1:C:973:SER:O	1:C:976:ARG:NH1	2.24	0.70
2:E:77:SER:OG	2:E:79:ASP:OD1	2.09	0.70
1:B:3135:ALA:O	1:B:3139:VAL:HG22	1.92	0.70
1:D:633:LEU:HD22	1:D:1639:LEU:HD21	1.73	0.70
1:A:577:ILE:O	1:A:579:GLN:NE2	2.24	0.70
1:A:1754:GLY:O	1:A:1758:ARG:N	2.24	0.70
1:B:1671:ARG:NH1	1:B:1710:GLY:O	2.25	0.70
1:D:3365:LEU:HD11	1:D:3405:LEU:CD2	2.20	0.70
1:C:3135:ALA:O	1:C:3139:VAL:HG22	1.92	0.70
1:A:76:ARG:NH1	1:D:3844:LEU:HD13	2.07	0.70
1:A:4879:MET:HB2	1:D:4578:LEU:O	1.91	0.70
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.74	0.70
1:B:1153:ILE:HD11	1:B:1155:LEU:HD21	1.73	0.70
1:D:2742:THR:HG21	1:D:2814:LYS:HB3	1.74	0.70
1:D:3668:SER:OG	1:D:3731:LYS:NZ	2.25	0.70
1:A:973:SER:O	1:A:976:ARG:NH1	2.24	0.70
1:A:3668:SER:OG	1:A:3731:LYS:NZ	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1754:GLY:O	1:B:1758:ARG:N	2.24	0.70
1:B:3365:LEU:HD11	1:B:3405:LEU:CD2	2.20	0.70
1:D:978:THR:O	1:D:982:THR:HG23	1.92	0.70
1:D:2530:MET:SD	1:D:2554:LEU:HD22	2.31	0.70
1:D:4755:GLU:OE2	1:D:4757:LYS:NZ	2.24	0.70
1:C:1754:GLY:O	1:C:1758:ARG:N	2.24	0.70
1:C:2742:THR:HG21	1:C:2814:LYS:HB3	1.74	0.70
1:C:4070:ASP:OD1	1:C:4071:ILE:N	2.25	0.70
1:A:1290:ARG:HD2	1:A:1549:PHE:CB	2.21	0.69
1:A:3566:SER:OG	1:A:3568:SER:OG	1.98	0.69
1:A:3705:PHE:HB2	1:A:3778:MET:HE2	1.72	0.69
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.74	0.69
1:A:1153:ILE:HD11	1:A:1155:LEU:HD21	1.73	0.69
1:A:4070:ASP:OD1	1:A:4071:ILE:N	2.25	0.69
2:F:77:SER:OG	2:F:79:ASP:OD1	2.09	0.69
1:B:3052:HIS:HE2	1:B:3128:ASN:CG	2.01	0.69
1:D:4070:ASP:OD1	1:D:4071:ILE:N	2.25	0.69
1:C:874:LEU:HD22	1:C:1046:LEU:HD21	1.73	0.69
1:C:954:LYS:NZ	1:C:966:LYS:O	2.26	0.69
1:C:978:THR:O	1:C:982:THR:HG23	1.92	0.69
1:C:1153:ILE:HD11	1:C:1155:LEU:HD21	1.73	0.69
1:C:1671:ARG:NH1	1:C:1710:GLY:O	2.24	0.69
1:A:4099:SER:O	1:A:4101:LYS:NZ	2.21	0.69
1:D:874:LEU:HD22	1:D:1046:LEU:HD21	1.72	0.69
1:D:1290:ARG:HD2	1:D:1549:PHE:CB	2.21	0.69
1:C:4241:THR:HG22	1:C:4245:MET:SD	2.32	0.69
1:A:4755:GLU:OE2	1:A:4757:LYS:NZ	2.24	0.69
1:B:633:LEU:HD22	1:B:1639:LEU:HD21	1.73	0.69
1:B:1577:ALA:O	1:B:1584:ARG:NH1	2.26	0.69
1:D:3135:ALA:O	1:D:3139:VAL:HG22	1.92	0.69
1:C:3052:HIS:HE2	1:C:3128:ASN:CG	2.01	0.69
1:A:1499:ASP:OD1	1:A:1500:PHE:N	2.26	0.69
1:A:2609:ALA:O	1:A:2612[A]:ARG:NH1	2.23	0.69
1:B:4755:GLU:OE2	1:B:4757:LYS:NZ	2.24	0.69
1:D:1499:ASP:OD1	1:D:1500:PHE:N	2.26	0.69
1:C:1499:ASP:OD1	1:C:1500:PHE:N	2.26	0.69
1:A:1112:ASP:OD1	1:A:1113:VAL:HG23	1.93	0.69
1:A:2742:THR:HG21	1:A:2814:LYS:HB3	1.74	0.69
1:B:2243:SER:OG	1:B:3861:GLU:OE2	2.11	0.69
1:A:954:LYS:NZ	1:A:966:LYS:O	2.26	0.69
1:A:1577:ALA:O	1:A:1584:ARG:NH1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3898:ASP:OD1	1:A:3899:PHE:N	2.26	0.69
1:B:1499:ASP:OD1	1:B:1500:PHE:N	2.26	0.69
1:D:1569:GLN:HB2	1:D:1572:ILE:HD13	1.75	0.69
1:D:4241:THR:HG22	1:D:4245:MET:SD	2.32	0.69
1:C:1112:ASP:OD1	1:C:1113:VAL:HG23	1.93	0.69
1:C:1569:GLN:HB2	1:C:1572:ILE:HD13	1.75	0.69
1:C:3779:VAL:HG13	1:C:3797:THR:HG22	1.75	0.69
2:F:21:THR:OG1	2:F:49:MET:SD	2.47	0.69
1:B:1112:ASP:OD1	1:B:1113:VAL:HG23	1.93	0.69
1:B:4070:ASP:OD1	1:B:4071:ILE:N	2.25	0.69
1:D:954:LYS:NZ	1:D:966:LYS:O	2.26	0.69
1:D:3779:VAL:HG13	1:D:3797:THR:HG22	1.75	0.69
1:C:633:LEU:HD22	1:C:1639:LEU:HD21	1.73	0.69
1:A:3135:ALA:O	1:A:3139:VAL:HG22	1.92	0.69
1:B:954:LYS:NZ	1:B:966:LYS:O	2.26	0.69
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.74	0.69
1:C:2243:SER:OG	1:C:3861:GLU:OE2	2.11	0.69
1:A:2668:SER:N	1:A:2671:GLU:OE2	2.26	0.68
1:D:1112:ASP:OD1	1:D:1113:VAL:HG23	1.93	0.68
1:D:2035:HIS:ND1	1:D:3657:TYR:OH	2.17	0.68
1:A:4820:VAL:HG11	1:B:4839:MET:CE	2.23	0.68
1:D:3052:HIS:HE2	1:D:3128:ASN:CG	2.01	0.68
1:A:2258:LEU:C	1:A:2297:LYS:HZ3	2.02	0.68
1:B:2668:SER:N	1:B:2671:GLU:OE2	2.26	0.68
1:B:3668:SER:OG	1:B:3731:LYS:NZ	2.25	0.68
1:D:1153:ILE:HD11	1:D:1155:LEU:HD21	1.73	0.68
1:D:2258:LEU:C	1:D:2297:LYS:HZ3	2.01	0.68
1:D:3955:MET:HE1	1:D:4016:LEU:HA	1.74	0.68
1:D:4099:SER:O	1:D:4101:LYS:NZ	2.21	0.68
1:A:2667:THR:OG1	1:A:2671:GLU:OE2	2.07	0.68
2:G:77:SER:OG	2:G:79:ASP:OD1	2.09	0.68
1:B:2742:THR:HG21	1:B:2814:LYS:HB3	1.74	0.68
1:D:4818:MET:O	1:D:4824:ARG:NH1	2.27	0.68
1:C:4090:LYS:HE2	1:C:4112:LEU:HD22	1.76	0.68
1:A:3779:VAL:HG13	1:A:3797:THR:HG22	1.75	0.68
1:A:3874:VAL:HG11	1:A:3950:ASN:HD21	1.59	0.68
1:B:1569:GLN:HB2	1:B:1572:ILE:HD13	1.75	0.68
1:B:4578:LEU:O	1:C:4879:MET:HB2	1.93	0.68
1:C:2668:SER:N	1:C:2671:GLU:OE2	2.26	0.68
1:A:1079:LYS:NZ	1:A:1107:PRO:O	2.27	0.68
1:B:1749:PRO:O	1:B:1758:ARG:NE	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:76:ARG:NH1	1:C:3844:LEU:HD13	2.07	0.68
1:D:3874:VAL:HG11	1:D:3950:ASN:HD21	1.59	0.68
1:C:2166:LEU:HD11	1:C:2206:THR:HG23	1.76	0.68
1:C:2258:LEU:C	1:C:2297:LYS:HZ3	2.02	0.68
1:C:4818:MET:O	1:C:4824:ARG:NH1	2.27	0.68
1:A:978:THR:O	1:A:982:THR:HG23	1.92	0.68
1:A:3598:GLU:O	1:A:3602:VAL:HG23	1.94	0.68
1:B:978:THR:O	1:B:982:THR:HG23	1.92	0.68
1:D:1079:LYS:NZ	1:D:1107:PRO:O	2.27	0.68
1:D:1749:PRO:O	1:D:1758:ARG:NE	2.27	0.68
1:D:4090:LYS:HE2	1:D:4112:LEU:HD22	1.76	0.68
1:C:3020:THR:OG1	1:C:3023:LYS:O	2.07	0.68
1:C:3611:HIS:ND1	1:C:3611:HIS:O	2.27	0.68
1:C:3898:ASP:OD1	1:C:3899:PHE:N	2.26	0.68
1:A:2440:MET:SD	1:A:2441:HIS:N	2.67	0.68
1:B:3248:ARG:NH1	1:B:3252:ASP:OD1	2.27	0.68
1:B:3719:ASP:H	1:B:3793:MET:HE2	1.59	0.68
1:B:3874:VAL:HG11	1:B:3950:ASN:HD21	1.59	0.68
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.76	0.68
1:B:4818:MET:O	1:B:4824:ARG:NH1	2.27	0.68
1:C:3248:ARG:NH1	1:C:3252:ASP:OD1	2.27	0.68
1:A:1749:PRO:O	1:A:1758:ARG:NE	2.27	0.68
1:A:4818:MET:O	1:A:4824:ARG:NH1	2.27	0.68
1:D:3230:LEU:HD12	1:D:3232:LEU:HD13	1.76	0.68
1:C:3230:LEU:HD12	1:C:3232:LEU:HD13	1.76	0.68
1:C:3598:GLU:O	1:C:3602:VAL:HG23	1.94	0.68
1:A:1569:GLN:HB2	1:A:1572:ILE:HD13	1.75	0.68
1:B:2440:MET:SD	1:B:2441:HIS:N	2.67	0.68
1:D:1931:LEU:HD12	1:D:1939:MET:HE1	1.76	0.68
1:C:3788:GLY:N	1:C:3831:SER:OG	2.27	0.68
1:C:3955:MET:HE1	1:C:4016:LEU:HA	1.74	0.68
1:A:913:LEU:O	1:A:918:ARG:NH2	2.27	0.67
1:A:3052:HIS:HE2	1:A:3128:ASN:CG	2.01	0.67
1:B:971:ASP:O	1:B:974:HIS:ND1	2.27	0.67
1:B:3598:GLU:O	1:B:3602:VAL:HG23	1.94	0.67
1:B:3611:HIS:ND1	1:B:3611:HIS:O	2.27	0.67
1:B:3955:MET:HE1	1:B:4016:LEU:HA	1.74	0.67
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.74	0.67
1:A:2243:SER:OG	1:A:3861:GLU:OE2	2.11	0.67
1:B:1079:LYS:NZ	1:B:1107:PRO:O	2.27	0.67
1:D:2166:LEU:HD11	1:D:2206:THR:HG23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2243:SER:OG	1:D:3861:GLU:OE2	2.11	0.67
1:D:3898:ASP:OD1	1:D:3899:PHE:N	2.26	0.67
1:C:913:LEU:O	1:C:918:ARG:NH2	2.27	0.67
1:C:1749:PRO:O	1:C:1758:ARG:NE	2.27	0.67
1:C:2274:ASP:OD1	1:C:2275:VAL:N	2.28	0.67
1:C:3668:SER:OG	1:C:3731:LYS:NZ	2.25	0.67
1:A:1931:LEU:HD12	1:A:1939:MET:HE1	1.76	0.67
1:A:2274:ASP:OD1	1:A:2275:VAL:N	2.28	0.67
1:A:3719:ASP:H	1:A:3793:MET:HE2	1.59	0.67
1:D:3248:ARG:NH1	1:D:3252:ASP:OD1	2.27	0.67
1:D:3788:GLY:N	1:D:3831:SER:OG	2.27	0.67
1:A:2393:ASP:OD1	1:A:2418:LEU:N	2.28	0.67
2:E:21:THR:OG1	2:E:49:MET:SD	2.47	0.67
1:B:3898:ASP:OD1	1:B:3899:PHE:N	2.26	0.67
1:D:857:ASP:OD1	1:D:859:VAL:HG22	1.95	0.67
1:D:913:LEU:O	1:D:918:ARG:NH2	2.27	0.67
1:D:2440:MET:SD	1:D:2441:HIS:N	2.67	0.67
1:D:3611:HIS:ND1	1:D:3611:HIS:O	2.27	0.67
1:D:3955:MET:HE1	1:D:4016:LEU:CA	2.25	0.67
1:C:2440:MET:SD	1:C:2441:HIS:N	2.67	0.67
1:A:173:SER:HG	1:A:176:SER:HG	0.69	0.67
1:A:857:ASP:OD1	1:A:859:VAL:HG22	1.95	0.67
1:A:971:ASP:O	1:A:974:HIS:ND1	2.27	0.67
1:A:3955:MET:HE1	1:A:4016:LEU:CA	2.25	0.67
1:B:2166:LEU:HD11	1:B:2206:THR:HG23	1.76	0.67
1:D:2668:SER:N	1:D:2671:GLU:OE2	2.26	0.67
1:D:4879:MET:HB2	1:C:4578:LEU:O	1.93	0.67
1:C:3955:MET:HE1	1:C:4016:LEU:CA	2.25	0.67
1:A:3106:MET:HE3	1:A:3128:ASN:ND2	2.09	0.67
1:A:3230:LEU:HD12	1:A:3232:LEU:HD13	1.76	0.67
1:B:2274:ASP:OD1	1:B:2275:VAL:N	2.28	0.67
1:B:3230:LEU:HD12	1:B:3232:LEU:HD13	1.76	0.67
1:C:3285:TRP:NE1	1:C:3290:GLU:OE1	2.28	0.67
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.76	0.67
1:A:3611:HIS:ND1	1:A:3611:HIS:O	2.27	0.67
1:B:2437:ALA:O	1:B:2508:ARG:NH2	2.28	0.67
1:B:3779:VAL:HG13	1:B:3797:THR:HG22	1.75	0.67
1:B:3844:LEU:HD13	1:C:76:ARG:NH1	2.09	0.67
1:D:2274:ASP:OD1	1:D:2275:VAL:N	2.28	0.67
1:C:2464:ASP:OD1	1:C:2465:ASP:N	2.28	0.67
2:H:21:THR:OG1	2:H:49:MET:SD	2.47	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1931:LEU:HD12	1:B:1939:MET:HE1	1.76	0.67
1:B:3285:TRP:NE1	1:B:3290:GLU:OE1	2.28	0.67
1:D:2464:ASP:OD1	1:D:2465:ASP:N	2.28	0.67
1:C:971:ASP:O	1:C:974:HIS:ND1	2.27	0.67
1:C:2932:MET:HG3	1:C:2933:ASN:N	2.10	0.67
1:C:3106:MET:HE3	1:C:3128:ASN:ND2	2.09	0.67
1:A:1141:ARG:CB	1:D:3479:ALA:HB1	2.25	0.67
1:A:2437:ALA:O	1:A:2508:ARG:NH2	2.28	0.67
1:A:3788:GLY:N	1:A:3831:SER:OG	2.27	0.67
1:A:4577:LEU:HD21	1:A:4807:PHE:HD1	1.60	0.67
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.75	0.67
1:D:2437:ALA:O	1:D:2508:ARG:NH2	2.28	0.67
1:D:3598:GLU:O	1:D:3602:VAL:HG23	1.94	0.67
1:A:4090:LYS:HE2	1:A:4112:LEU:HD22	1.76	0.67
1:B:4090:LYS:HE2	1:B:4112:LEU:HD22	1.76	0.67
1:D:2932:MET:HG3	1:D:2933:ASN:N	2.10	0.67
1:C:857:ASP:OD1	1:C:859:VAL:HG22	1.95	0.67
1:C:1079:LYS:NZ	1:C:1107:PRO:O	2.27	0.67
1:C:3365:LEU:HD11	1:C:3405:LEU:CD2	2.20	0.67
1:A:2368:LEU:HD21	1:A:2376:LEU:HB2	1.77	0.66
1:A:2520:HIS:O	1:A:2524:VAL:HG22	1.95	0.66
1:B:2393:ASP:OD1	1:B:2418:LEU:N	2.28	0.66
1:D:971:ASP:O	1:D:974:HIS:ND1	2.27	0.66
1:D:2393:ASP:OD1	1:D:2418:LEU:N	2.28	0.66
1:D:3020:THR:OG1	1:D:3023:LYS:O	2.07	0.66
1:D:3996:PHE:CD1	1:D:4016:LEU:HD11	2.31	0.66
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.75	0.66
1:D:4839:MET:CE	1:C:4820:VAL:HG11	2.25	0.66
1:C:3996:PHE:CD1	1:C:4016:LEU:HD11	2.31	0.66
1:A:981:GLN:O	1:A:985:VAL:HG23	1.95	0.66
1:A:3248:ARG:NH1	1:A:3252:ASP:OD1	2.27	0.66
1:A:3955:MET:HE1	1:A:4016:LEU:HA	1.74	0.66
1:B:981:GLN:O	1:B:985:VAL:HG23	1.95	0.66
1:B:2674:LEU:HD23	1:B:2677:LYS:HZ1	1.61	0.66
1:B:3788:GLY:N	1:B:3831:SER:OG	2.27	0.66
1:D:981:GLN:O	1:D:985:VAL:HG23	1.95	0.66
1:C:3719:ASP:H	1:C:3793:MET:HE2	1.59	0.66
1:C:3874:VAL:HG11	1:C:3950:ASN:HD21	1.59	0.66
1:C:4755:GLU:OE2	1:C:4757:LYS:NZ	2.24	0.66
1:A:493:ARG:O	1:A:496:VAL:HG12	1.96	0.66
1:A:2166:LEU:HD11	1:A:2206:THR:HG23	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:84:ALA:HA	2:F:94:HIS:CE1	2.31	0.66
1:B:913:LEU:O	1:B:918:ARG:NH2	2.27	0.66
1:B:3106:MET:HE3	1:B:3128:ASN:ND2	2.09	0.66
1:B:3996:PHE:CD1	1:B:4016:LEU:HD11	2.31	0.66
1:D:3719:ASP:H	1:D:3793:MET:HE2	1.59	0.66
1:C:186:SER:OG	1:C:188:GLU:O	2.14	0.66
1:A:3996:PHE:CD1	1:A:4016:LEU:HD11	2.31	0.66
1:D:1577:ALA:O	1:D:1584:ARG:NH1	2.26	0.66
1:D:2593:ARG:O	1:D:2594:SER:OG	2.14	0.66
1:C:2393:ASP:OD1	1:C:2418:LEU:N	2.28	0.66
1:C:4743:MET:HE2	1:C:4748:LEU:HD11	1.78	0.66
1:A:3842:LEU:HD13	1:A:3933:PHE:CE2	2.31	0.66
2:G:84:ALA:HA	2:G:94:HIS:CE1	2.31	0.66
1:D:3106:MET:HE3	1:D:3128:ASN:ND2	2.09	0.66
1:C:3842:LEU:HD13	1:C:3933:PHE:CE2	2.31	0.66
1:A:3247:ASP:OD1	1:A:3248:ARG:N	2.29	0.66
1:B:2368:LEU:HD21	1:B:2376:LEU:HB2	1.77	0.66
1:D:659:TYR:OH	1:D:807:GLY:O	2.11	0.66
1:C:981:GLN:O	1:C:985:VAL:HG23	1.95	0.66
1:A:4041:ALA:O	1:A:4045:VAL:HG23	1.95	0.66
1:A:4743:MET:HE2	1:A:4748:LEU:HD11	1.78	0.66
1:B:4743:MET:HE2	1:B:4748:LEU:HD11	1.78	0.66
1:B:4820:VAL:HG11	1:C:4839:MET:CE	2.25	0.66
1:D:1641:ILE:HD11	1:D:1648:MET:HE3	1.78	0.66
1:D:2368:LEU:HD21	1:D:2376:LEU:HB2	1.77	0.66
1:D:4743:MET:HE2	1:D:4748:LEU:HD11	1.78	0.66
1:C:493:ARG:O	1:C:496:VAL:HG12	1.96	0.66
1:C:2437:ALA:O	1:C:2508:ARG:NH2	2.28	0.66
1:C:2601:ASP:OD1	1:C:2602:VAL:N	2.29	0.66
1:A:2464:ASP:OD1	1:A:2465:ASP:N	2.28	0.66
1:A:3579:LEU:HD22	1:A:3582:ARG:HG2	1.78	0.66
1:A:4768:LEU:HA	1:A:4771:ILE:HD12	1.78	0.66
1:B:2464:ASP:OD1	1:B:2465:ASP:N	2.28	0.66
1:B:3842:LEU:HD13	1:B:3933:PHE:CE2	2.31	0.66
1:D:231:LEU:HD11	1:D:245:VAL:HG12	1.78	0.66
1:C:1931:LEU:HD12	1:C:1939:MET:HE1	1.76	0.66
1:C:2520:HIS:O	1:C:2524:VAL:HG22	1.95	0.66
1:C:4768:LEU:HA	1:C:4771:ILE:HD12	1.78	0.66
1:A:231:LEU:HD11	1:A:245:VAL:HG12	1.78	0.66
1:A:3285:TRP:NE1	1:A:3290:GLU:OE1	2.28	0.66
2:E:84:ALA:HA	2:E:94:HIS:CE1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:SER:OG	1:B:188:GLU:O	2.14	0.66
1:B:4041:ALA:O	1:B:4045:VAL:HG23	1.95	0.66
1:C:1577:ALA:O	1:C:1584:ARG:NH1	2.26	0.66
1:C:3247:ASP:OD1	1:C:3248:ARG:N	2.29	0.66
1:A:2790:MET:SD	1:A:2791:LEU:HD22	2.36	0.66
2:H:84:ALA:HA	2:H:94:HIS:CE1	2.31	0.66
1:D:3842:LEU:HD13	1:D:3933:PHE:CE2	2.31	0.66
1:A:1641:ILE:HD11	1:A:1648:MET:HE3	1.78	0.65
1:A:1950:GLU:OE2	1:A:2041:HIS:NE2	2.30	0.65
1:B:857:ASP:OD1	1:B:859:VAL:HG22	1.95	0.65
1:B:2520:HIS:O	1:B:2524:VAL:HG22	1.95	0.65
1:B:2667:THR:OG1	1:B:2671:GLU:OE2	2.07	0.65
1:D:493:ARG:O	1:D:496:VAL:HG12	1.96	0.65
1:C:2368:LEU:HD21	1:C:2376:LEU:HB2	1.77	0.65
1:A:2932:MET:HG3	1:A:2933:ASN:N	2.10	0.65
1:B:2601:ASP:OD1	1:B:2602:VAL:N	2.29	0.65
1:B:2790:MET:SD	1:B:2791:LEU:HD22	2.36	0.65
1:B:3247:ASP:OD1	1:B:3248:ARG:N	2.29	0.65
1:B:3579:LEU:HD22	1:B:3582:ARG:HG2	1.78	0.65
1:B:3955:MET:HE1	1:B:4016:LEU:CA	2.25	0.65
1:D:2601:ASP:OD1	1:D:2602:VAL:N	2.29	0.65
1:D:2687:ALA:HB1	1:D:2966:TRP:CH2	2.31	0.65
1:D:2758:PHE:O	1:D:2762:THR:OG1	2.10	0.65
1:D:3285:TRP:NE1	1:D:3290:GLU:OE1	2.28	0.65
1:D:4768:LEU:HA	1:D:4771:ILE:HD12	1.78	0.65
1:C:1950:GLU:OE2	1:C:2041:HIS:NE2	2.30	0.65
1:C:2687:ALA:HB1	1:C:2966:TRP:CH2	2.31	0.65
1:A:2601:ASP:OD1	1:A:2602:VAL:N	2.29	0.65
1:A:3354:LEU:HD12	1:A:3415:TYR:CE2	2.31	0.65
1:B:1950:GLU:OE2	1:B:2041:HIS:NE2	2.30	0.65
1:B:2878:LEU:HG	1:B:2882:TYR:CZ	2.32	0.65
1:B:3354:LEU:HD12	1:B:3415:TYR:CE2	2.31	0.65
1:D:2878:LEU:HG	1:D:2882:TYR:CZ	2.32	0.65
1:D:4577:LEU:HD21	1:D:4807:PHE:HD1	1.61	0.65
1:C:1641:ILE:HD11	1:C:1648:MET:HE3	1.78	0.65
1:C:3354:LEU:HD12	1:C:3415:TYR:CE2	2.32	0.65
1:B:493:ARG:O	1:B:496:VAL:HG12	1.96	0.65
1:B:1255:TYR:O	1:B:1275:ARG:NH2	2.30	0.65
1:B:4768:LEU:HA	1:B:4771:ILE:HD12	1.78	0.65
1:D:1084:GLN:NE2	1:D:1186:ASP:O	2.30	0.65
1:C:4041:ALA:O	1:C:4045:VAL:HG23	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2878:LEU:HG	1:A:2882:TYR:CZ	2.32	0.65
1:B:1641:ILE:HD11	1:B:1648:MET:HE3	1.78	0.65
1:B:4577:LEU:HD21	1:B:4807:PHE:HD1	1.60	0.65
1:D:1950:GLU:OE2	1:D:2041:HIS:NE2	2.30	0.65
1:D:2538:THR:O	1:D:2542:SER:N	2.30	0.65
1:D:4041:ALA:O	1:D:4045:VAL:HG23	1.95	0.65
1:A:1255:TYR:O	1:A:1275:ARG:NH2	2.30	0.65
2:H:1:GLY:O	2:H:3:GLN:NE2	2.30	0.65
1:B:1527:MET:HE2	1:B:1542:VAL:HG13	1.79	0.65
1:D:1109:LEU:HD21	1:D:1115:LEU:CD2	2.27	0.65
1:D:2520:HIS:O	1:D:2524:VAL:HG22	1.95	0.65
1:D:3566:SER:OG	1:D:3568:SER:OG	1.98	0.65
1:D:4219:PHE:O	1:D:4223:ASN:ND2	2.29	0.65
1:A:2593:ARG:O	1:A:2594:SER:OG	2.14	0.65
1:A:3379:LEU:HD13	1:A:3391:GLU:OE1	1.97	0.65
1:B:2816:MET:HG2	1:B:2878:LEU:HD11	1.79	0.65
1:B:4007:SER:OG	1:B:4131:ARG:NH1	2.30	0.65
1:D:186:SER:OG	1:D:188:GLU:O	2.14	0.65
1:D:2790:MET:SD	1:D:2791:LEU:HD22	2.36	0.65
1:D:3427:PRO:HD3	1:D:3579:LEU:HD21	1.79	0.65
1:A:1527:MET:HE2	1:A:1542:VAL:HG13	1.79	0.65
1:A:2816:MET:HG2	1:A:2878:LEU:HD11	1.79	0.65
1:B:162:LYS:O	1:B:164:ARG:NH1	2.30	0.65
1:D:615:ARG:NH2	1:D:1676:LEU:O	2.28	0.65
1:D:4007:SER:OG	1:D:4131:ARG:NH1	2.30	0.65
1:C:2816:MET:HG2	1:C:2878:LEU:HD11	1.79	0.65
1:C:3579:LEU:HD22	1:C:3582:ARG:HG2	1.77	0.65
1:A:186:SER:OG	1:A:188:GLU:O	2.14	0.65
1:B:2687:ALA:HB1	1:B:2966:TRP:CH2	2.31	0.65
1:D:2816:MET:HG2	1:D:2878:LEU:HD11	1.79	0.65
1:C:231:LEU:HD11	1:C:245:VAL:HG12	1.78	0.65
1:C:1084:GLN:NE2	1:C:1186:ASP:O	2.30	0.65
1:C:1109:LEU:HD21	1:C:1115:LEU:CD2	2.27	0.65
1:C:2593:ARG:O	1:C:2594:SER:OG	2.14	0.65
1:B:1084:GLN:NE2	1:B:1186:ASP:O	2.30	0.65
1:B:2577:ILE:HG13	1:B:2578:MET:SD	2.38	0.65
1:B:3427:PRO:HD3	1:B:3579:LEU:HD21	1.79	0.65
1:D:3410:PRO:HB3	1:D:3469:PHE:HE2	1.61	0.65
1:A:683:ARG:NH1	1:A:707:VAL:O	2.29	0.64
1:A:1008:SER:OG	1:A:1010:VAL:O	2.09	0.64
1:A:2687:ALA:HB1	1:A:2966:TRP:CH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1:GLY:O	2:E:3:GLN:NE2	2.30	0.64
1:B:2932:MET:HG3	1:B:2933:ASN:N	2.10	0.64
1:D:881:LEU:O	1:D:885:THR:HG23	1.97	0.64
1:C:3410:PRO:HB3	1:C:3469:PHE:HE2	1.61	0.64
1:A:2538:THR:O	1:A:2542:SER:N	2.30	0.64
1:B:881:LEU:O	1:B:885:THR:HG23	1.97	0.64
1:B:2598:ALA:O	1:B:2602:VAL:HG23	1.97	0.64
1:B:4219:PHE:O	1:B:4223:ASN:ND2	2.29	0.64
1:C:162:LYS:O	1:C:164:ARG:NH1	2.30	0.64
1:C:2538:THR:O	1:C:2542:SER:N	2.30	0.64
1:C:2577:ILE:HG13	1:C:2578:MET:SD	2.38	0.64
1:A:881:LEU:O	1:A:885:THR:HG23	1.97	0.64
2:F:1:GLY:O	2:F:3:GLN:NE2	2.30	0.64
1:B:2758:PHE:CE2	1:B:2809:ILE:HD12	2.33	0.64
1:D:1527:MET:HE2	1:D:1542:VAL:HG13	1.79	0.64
1:D:2598:ALA:O	1:D:2602:VAL:HG23	1.97	0.64
1:D:2758:PHE:CE2	1:D:2809:ILE:HD12	2.33	0.64
1:D:3354:LEU:HD12	1:D:3415:TYR:CE2	2.31	0.64
1:C:2758:PHE:CE2	1:C:2809:ILE:HD12	2.33	0.64
1:C:2790:MET:SD	1:C:2791:LEU:HD22	2.36	0.64
1:A:1109:LEU:HD21	1:A:1115:LEU:CD2	2.27	0.64
1:A:3410:PRO:HB3	1:A:3469:PHE:HE2	1.61	0.64
1:A:4007:SER:OG	1:A:4131:ARG:NH1	2.30	0.64
1:A:4219:PHE:O	1:A:4223:ASN:ND2	2.29	0.64
1:B:1441:ALA:N	1:B:1513:ASP:OD1	2.31	0.64
1:B:2258:LEU:C	1:B:2297:LYS:HZ3	2.04	0.64
1:D:2577:ILE:HG13	1:D:2578:MET:SD	2.38	0.64
1:D:4231:MET:O	1:D:4235:VAL:HG23	1.98	0.64
1:C:1527:MET:HE2	1:C:1542:VAL:HG13	1.79	0.64
2:G:34:LYS:HE2	1:C:629:ARG:HB2	1.78	0.64
1:B:231:LEU:HD11	1:B:245:VAL:HG12	1.78	0.64
1:B:3410:PRO:HB3	1:B:3469:PHE:HE2	1.61	0.64
1:C:2878:LEU:HG	1:C:2882:TYR:CZ	2.32	0.64
1:C:3051:ARG:O	1:C:3053:ARG:NE	2.31	0.64
1:C:4577:LEU:HD21	1:C:4807:PHE:HD1	1.61	0.64
1:A:2758:PHE:CE2	1:A:2809:ILE:HD12	2.33	0.64
1:B:1109:LEU:HD21	1:B:1115:LEU:CD2	2.27	0.64
1:C:881:LEU:O	1:C:885:THR:HG23	1.97	0.64
1:C:1286:MET:HE2	1:C:1555:LEU:HD12	1.79	0.64
1:C:4007:SER:OG	1:C:4131:ARG:NH1	2.30	0.64
1:A:2577:ILE:HG13	1:A:2578:MET:SD	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4231:MET:O	1:A:4235:VAL:HG23	1.98	0.64
1:B:2974:ILE:CD1	1:B:3049:LEU:HD12	2.28	0.64
1:D:1286:MET:HE2	1:D:1555:LEU:HD12	1.79	0.64
1:D:3247:ASP:OD1	1:D:3248:ARG:N	2.29	0.64
1:D:3842:LEU:HD13	1:D:3933:PHE:CD2	2.33	0.64
1:C:23:GLN:OE1	1:C:35:LEU:N	2.31	0.64
1:C:2598:ALA:O	1:C:2602:VAL:HG23	1.97	0.64
1:C:3379:LEU:HD13	1:C:3391:GLU:OE1	1.97	0.64
1:C:4219:PHE:O	1:C:4223:ASN:ND2	2.29	0.64
1:A:1084:GLN:NE2	1:A:1186:ASP:O	2.30	0.64
1:A:2667:THR:HG21	1:A:2672:LEU:HD11	1.80	0.64
1:A:3479:ALA:HB1	1:B:1141:ARG:HB3	1.79	0.64
2:G:1:GLY:O	2:G:3:GLN:NE2	2.30	0.64
1:B:3842:LEU:HD13	1:B:3933:PHE:CD2	2.33	0.64
1:D:23:GLN:OE1	1:D:35:LEU:N	2.31	0.64
1:C:2667:THR:HG21	1:C:2672:LEU:HD11	1.80	0.64
1:A:1141:ARG:HB3	1:D:3479:ALA:HB1	1.80	0.64
1:A:1286:MET:HE2	1:A:1555:LEU:HD12	1.79	0.64
1:A:1425:GLU:OE2	1:A:1429:ASN:ND2	2.31	0.64
1:A:2598:ALA:O	1:A:2602:VAL:HG23	1.97	0.64
1:A:3051:ARG:O	1:A:3053:ARG:NE	2.31	0.64
1:B:697:GLY:HA2	1:B:1636:MET:SD	2.37	0.64
1:D:162:LYS:O	1:D:164:ARG:NH1	2.30	0.64
1:D:1425:GLU:OE2	1:D:1429:ASN:ND2	2.31	0.64
1:D:3379:LEU:HD13	1:D:3391:GLU:OE1	1.97	0.64
1:C:56:GLN:O	1:C:309:THR:OG1	2.16	0.64
1:C:3427:PRO:HD3	1:C:3579:LEU:HD21	1.78	0.64
1:C:4231:MET:O	1:C:4235:VAL:HG23	1.98	0.64
1:B:1286:MET:HE2	1:B:1555:LEU:HD12	1.79	0.64
1:B:2593:ARG:O	1:B:2594:SER:OG	2.14	0.64
1:B:3310:ASP:OD1	1:B:3311:HIS:N	2.31	0.64
1:B:3955:MET:CE	1:B:4016:LEU:HA	2.28	0.64
1:D:3579:LEU:HD22	1:D:3582:ARG:HG2	1.78	0.64
1:B:2512:ILE:HG21	1:B:2565:CYS:SG	2.38	0.63
1:B:2667:THR:HG21	1:B:2672:LEU:HD11	1.80	0.63
1:D:2667:THR:HG21	1:D:2672:LEU:HD11	1.80	0.63
1:D:2667:THR:OG1	1:D:2671:GLU:OE2	2.07	0.63
1:C:1425:GLU:OE2	1:C:1429:ASN:ND2	2.31	0.63
1:A:162:LYS:O	1:A:164:ARG:NH1	2.30	0.63
1:A:3427:PRO:HD3	1:A:3579:LEU:HD21	1.78	0.63
1:A:3479:ALA:HB1	1:B:1141:ARG:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4827:LEU:O	1:A:4831:THR:HG23	1.99	0.63
1:B:56:GLN:O	1:B:309:THR:OG1	2.16	0.63
1:B:3283:ARG:HG2	1:B:3287:ARG:HH22	1.63	0.63
1:C:697:GLY:HA2	1:C:1636:MET:SD	2.37	0.63
1:C:2974:ILE:CD1	1:C:3049:LEU:HD12	2.28	0.63
1:C:3283:ARG:HG2	1:C:3287:ARG:HH22	1.63	0.63
1:A:697:GLY:HA2	1:A:1636:MET:SD	2.37	0.63
1:A:2512:ILE:HG21	1:A:2565:CYS:SG	2.38	0.63
1:B:3379:LEU:HD13	1:B:3391:GLU:OE1	1.97	0.63
1:B:4231:MET:O	1:B:4235:VAL:HG23	1.98	0.63
1:D:4559:PHE:HA	1:D:4562:LEU:HD12	1.81	0.63
1:C:683:ARG:NH1	1:C:707:VAL:O	2.29	0.63
1:C:3842:LEU:HD13	1:C:3933:PHE:CD2	2.33	0.63
1:A:2675:THR:CG2	1:A:2710:LEU:HD21	2.29	0.63
1:B:23:GLN:OE1	1:B:35:LEU:N	2.31	0.63
1:B:1425:GLU:OE2	1:B:1429:ASN:ND2	2.31	0.63
1:B:2675:THR:CG2	1:B:2710:LEU:HD21	2.29	0.63
1:B:3051:ARG:O	1:B:3053:ARG:NE	2.31	0.63
1:D:3223:SER:N	1:D:3226:GLU:OE2	2.32	0.63
1:C:3955:MET:CE	1:C:4016:LEU:HA	2.28	0.63
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.32	0.63
1:A:2974:ILE:CD1	1:A:3049:LEU:HD12	2.28	0.63
1:A:3842:LEU:HD13	1:A:3933:PHE:CD2	2.33	0.63
1:A:3844:LEU:HD13	1:B:76:ARG:NH1	2.14	0.63
1:B:1424:PRO:O	1:B:1428:LEU:HD23	1.99	0.63
1:B:3230:LEU:HD12	1:B:3230:LEU:O	1.99	0.63
1:D:1441:ALA:N	1:D:1513:ASP:OD1	2.30	0.63
1:C:3230:LEU:HD12	1:C:3230:LEU:O	1.99	0.63
1:C:3720:TYR:HA	1:C:3723:MET:HE3	1.81	0.63
1:C:4827:LEU:O	1:C:4831:THR:HG23	1.99	0.63
1:A:1441:ALA:N	1:A:1513:ASP:OD1	2.31	0.63
1:A:3223:SER:N	1:A:3226:GLU:OE2	2.32	0.63
1:A:3955:MET:CE	1:A:4016:LEU:HA	2.28	0.63
1:B:2538:THR:O	1:B:2542:SER:N	2.30	0.63
1:D:1109:LEU:HD21	1:D:1115:LEU:HD21	1.81	0.63
1:D:2230:THR:HG23	1:D:2270:SER:HB2	1.80	0.63
1:D:4577:LEU:HD21	1:D:4807:PHE:CD1	2.34	0.63
1:C:615:ARG:NH2	1:C:1676:LEU:O	2.28	0.63
1:C:1101:ARG:NH1	1:C:1114:GLU:OE2	2.32	0.63
1:A:1109:LEU:HD21	1:A:1115:LEU:HD21	1.81	0.63
1:A:2244:ARG:N	1:A:3861:GLU:OE1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:79:ASP:OD1	2:H:80:TYR:N	2.32	0.63
1:B:2215:LEU:HD23	1:B:2223:ILE:CD1	2.29	0.63
1:B:4577:LEU:HD21	1:B:4807:PHE:CD1	2.34	0.63
1:D:697:GLY:HA2	1:D:1636:MET:SD	2.37	0.63
1:D:3230:LEU:HD12	1:D:3230:LEU:O	1.99	0.63
1:C:2230:THR:HG23	1:C:2270:SER:HB2	1.81	0.63
1:C:4559:PHE:HA	1:C:4562:LEU:HD12	1.81	0.63
1:A:23:GLN:OE1	1:A:35:LEU:N	2.31	0.63
1:A:3230:LEU:HD12	1:A:3230:LEU:O	1.99	0.63
1:A:3720:TYR:HA	1:A:3723:MET:HE3	1.81	0.63
1:B:399:GLN:O	1:B:403:MET:HG3	1.99	0.63
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.28	0.63
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.32	0.63
1:D:4827:LEU:O	1:D:4831:THR:HG23	1.99	0.63
1:C:993:HIS:NE2	1:C:1022:VAL:O	2.30	0.63
1:C:2215:LEU:HD23	1:C:2223:ILE:CD1	2.29	0.63
1:C:2512:ILE:HG21	1:C:2565:CYS:SG	2.38	0.63
1:A:2215:LEU:HD23	1:A:2223:ILE:CD1	2.29	0.63
1:A:3414:ARG:HD2	1:A:3473:ASP:OD2	1.99	0.63
1:B:3720:TYR:HA	1:B:3723:MET:HE3	1.81	0.63
1:D:2675:THR:CG2	1:D:2710:LEU:HD21	2.29	0.63
1:C:3310:ASP:OD1	1:C:3311:HIS:N	2.31	0.63
1:A:399:GLN:O	1:A:403:MET:HG3	1.99	0.62
1:B:4936:ILE:HG22	1:B:4940:PHE:CE2	2.34	0.62
1:D:3720:TYR:HA	1:D:3723:MET:HE3	1.81	0.62
1:C:399:GLN:O	1:C:403:MET:HG3	1.99	0.62
1:C:981:GLN:OE1	1:C:981:GLN:N	2.32	0.62
1:A:156:GLN:OE1	1:A:157:ARG:NH1	2.32	0.62
1:A:4052:SER:O	1:A:4055:VAL:N	2.32	0.62
1:A:4577:LEU:HD21	1:A:4807:PHE:CD1	2.34	0.62
2:G:49:MET:HG3	2:G:52:LYS:NZ	2.15	0.62
2:F:49:MET:HG3	2:F:52:LYS:NZ	2.15	0.62
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.32	0.62
1:B:3414:ARG:HD2	1:B:3473:ASP:OD2	1.99	0.62
1:D:56:GLN:O	1:D:309:THR:OG1	2.16	0.62
1:D:3310:ASP:OD1	1:D:3311:HIS:N	2.31	0.62
1:D:4978:HIS:ND1	1:D:4982:GLU:OE1	2.32	0.62
1:C:4052:SER:O	1:C:4055:VAL:N	2.32	0.62
1:A:2674:LEU:HD23	1:A:2677:LYS:HZ1	1.63	0.62
1:B:981:GLN:N	1:B:981:GLN:OE1	2.32	0.62
1:B:4559:PHE:HA	1:B:4562:LEU:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4827:LEU:O	1:B:4831:THR:HG23	1.99	0.62
1:D:1424:PRO:O	1:D:1428:LEU:HD23	1.99	0.62
1:D:3051:ARG:O	1:D:3053:ARG:NE	2.31	0.62
1:D:3225:ARG:O	1:D:3228:ALA:HB3	2.00	0.62
1:D:3283:ARG:HG2	1:D:3287:ARG:HH22	1.63	0.62
1:C:156:GLN:OE1	1:C:157:ARG:NH1	2.32	0.62
1:C:3414:ARG:HD2	1:C:3473:ASP:OD2	1.99	0.62
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.32	0.62
1:A:4936:ILE:HG22	1:A:4940:PHE:CE2	2.34	0.62
1:B:173:SER:OG	1:B:176:SER:OG	1.88	0.62
1:D:156:GLN:OE1	1:D:157:ARG:NH1	2.32	0.62
1:D:2512:ILE:HG21	1:D:2565:CYS:SG	2.38	0.62
1:C:1109:LEU:HD21	1:C:1115:LEU:HD21	1.81	0.62
1:C:1441:ALA:N	1:C:1513:ASP:OD1	2.30	0.62
1:C:3225:ARG:O	1:C:3228:ALA:HB3	1.99	0.62
1:C:3834:ALA:O	1:C:3838:THR:HG23	2.00	0.62
1:C:4577:LEU:HD21	1:C:4807:PHE:CD1	2.34	0.62
1:C:4936:ILE:HG22	1:C:4940:PHE:CE2	2.34	0.62
1:A:1424:PRO:O	1:A:1428:LEU:HD23	1.99	0.62
1:B:156:GLN:OE1	1:B:157:ARG:NH1	2.32	0.62
1:D:2215:LEU:HD23	1:D:2223:ILE:CD1	2.29	0.62
1:D:3414:ARG:HD2	1:D:3473:ASP:OD2	1.99	0.62
1:D:3955:MET:CE	1:D:4016:LEU:HA	2.28	0.62
1:D:4936:ILE:HG22	1:D:4940:PHE:CE2	2.34	0.62
1:C:2244:ARG:N	1:C:3861:GLU:OE1	2.32	0.62
1:C:2675:THR:CG2	1:C:2710:LEU:HD21	2.29	0.62
1:A:56:GLN:O	1:A:309:THR:OG1	2.16	0.62
1:A:2230:THR:HG23	1:A:2270:SER:HB2	1.81	0.62
1:A:3834:ALA:O	1:A:3838:THR:HG23	2.00	0.62
2:H:49:MET:HG3	2:H:52:LYS:NZ	2.15	0.62
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.32	0.62
1:B:3834:ALA:O	1:B:3838:THR:HG23	2.00	0.62
1:B:4052:SER:O	1:B:4055:VAL:N	2.32	0.62
1:D:1141:ARG:CB	1:C:3479:ALA:HB1	2.29	0.62
1:D:2244:ARG:N	1:D:3861:GLU:OE1	2.32	0.62
1:A:3310:ASP:OD1	1:A:3311:HIS:N	2.31	0.62
2:H:25:HIS:HB3	2:H:102:GLU:OE2	1.99	0.62
1:B:1109:LEU:HD21	1:B:1115:LEU:HD21	1.81	0.62
1:D:399:GLN:O	1:D:403:MET:HG3	1.99	0.62
1:D:1263:THR:OG1	1:D:1265:ASP:OD1	2.13	0.62
1:D:2294:ASP:O	1:D:2298:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3324:VAL:CG1	1:D:3361:THR:HG22	2.30	0.62
1:D:3834:ALA:O	1:D:3838:THR:HG23	2.00	0.62
1:D:4052:SER:O	1:D:4055:VAL:N	2.32	0.62
1:D:4745:LEU:O	1:D:4749:GLU:OE1	2.17	0.62
1:C:3566:SER:OG	1:C:3568:SER:OG	1.98	0.62
1:A:3225:ARG:O	1:A:3228:ALA:HB3	2.00	0.62
2:E:49:MET:HG3	2:E:52:LYS:NZ	2.15	0.62
2:H:34:LYS:HE2	1:D:629:ARG:HB2	1.82	0.62
1:B:3225:ARG:O	1:B:3228:ALA:HB3	1.99	0.62
1:D:2974:ILE:CD1	1:D:3049:LEU:HD12	2.28	0.62
1:A:1680:ARG:HG2	1:A:1797:ARG:HD3	1.82	0.62
1:A:4736:ARG:NH2	1:D:4079:ASP:OD2	2.33	0.62
1:B:1008:SER:OG	1:B:1010:VAL:O	2.09	0.62
1:B:4978:HIS:ND1	1:B:4982:GLU:OE1	2.32	0.62
1:D:1255:TYR:O	1:D:1275:ARG:NH2	2.30	0.62
1:C:1570:LYS:O	1:C:1572:ILE:HD12	2.00	0.62
1:C:3324:VAL:CG1	1:C:3361:THR:HG22	2.30	0.62
1:C:3779:VAL:HG13	1:C:3797:THR:CG2	2.30	0.62
1:A:2294:ASP:O	1:A:2298:VAL:HG23	2.00	0.62
1:A:3102:ASP:O	1:A:3106:MET:HG2	2.00	0.62
1:A:4978:HIS:ND1	1:A:4982:GLU:OE1	2.32	0.62
2:F:34:LYS:HE2	1:B:629:ARG:HB2	1.82	0.62
2:F:79:ASP:OD1	2:F:80:TYR:N	2.32	0.62
1:B:875:ALA:CB	1:B:922:LEU:HD22	2.30	0.62
1:D:1570:LYS:O	1:D:1572:ILE:HD12	2.00	0.62
1:C:1424:PRO:O	1:C:1428:LEU:HD23	1.99	0.62
1:C:3223:SER:N	1:C:3226:GLU:OE2	2.32	0.62
2:E:79:ASP:OD1	2:E:80:TYR:N	2.32	0.61
1:B:1680:ARG:HG2	1:B:1797:ARG:HD3	1.82	0.61
1:B:2230:THR:HG23	1:B:2270:SER:HB2	1.80	0.61
1:D:214:VAL:HG22	1:D:341:TYR:CD2	2.35	0.61
1:A:214:VAL:HG22	1:A:341:TYR:CD2	2.35	0.61
1:A:981:GLN:OE1	1:A:981:GLN:N	2.32	0.61
1:A:993:HIS:NE2	1:A:1022:VAL:O	2.30	0.61
1:A:3283:ARG:HG2	1:A:3287:ARG:HH22	1.63	0.61
1:A:4559:PHE:HA	1:A:4562:LEU:HD12	1.81	0.61
1:B:2516:ASP:OD1	1:B:2517:PHE:N	2.33	0.61
1:B:3779:VAL:HG13	1:B:3797:THR:CG2	2.30	0.61
1:D:981:GLN:OE1	1:D:981:GLN:N	2.32	0.61
1:C:2516:ASP:OD1	1:C:2517:PHE:N	2.33	0.61
1:A:4745:LEU:O	1:A:4749:GLU:OE1	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:79:ASP:OD1	2:G:80:TYR:N	2.32	0.61
2:F:49:MET:HG3	2:F:52:LYS:HZ1	1.65	0.61
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.32	0.61
1:B:179:TYR:N	1:B:194:SER:O	2.33	0.61
1:D:3779:VAL:HG13	1:D:3797:THR:CG2	2.30	0.61
1:C:1579:MET:CE	1:C:1580:PHE:CE1	2.83	0.61
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.32	0.61
1:C:2294:ASP:O	1:C:2298:VAL:HG23	2.00	0.61
1:A:1570:LYS:O	1:A:1572:ILE:HD12	2.00	0.61
1:A:2223:ILE:HG23	1:A:2223:ILE:O	2.01	0.61
1:B:1570:LYS:O	1:B:1572:ILE:HD12	2.00	0.61
1:B:4745:LEU:O	1:B:4749:GLU:OE1	2.17	0.61
1:D:939:VAL:HG23	1:D:1053:ILE:CD1	2.30	0.61
1:D:2768:PHE:HB2	1:D:2857:PRO:HG3	1.83	0.61
1:D:3842:LEU:HD22	1:D:3933:PHE:CE2	2.36	0.61
1:C:1579:MET:HE2	1:C:1580:PHE:HE1	1.65	0.61
1:A:615:ARG:NH2	1:A:1676:LEU:O	2.28	0.61
1:A:2768:PHE:HB2	1:A:2857:PRO:HG3	1.83	0.61
1:A:3842:LEU:HD22	1:A:3933:PHE:CE2	2.36	0.61
2:E:25:HIS:HB3	2:E:102:GLU:OE2	1.99	0.61
1:B:514:SER:O	1:B:518:ILE:HD12	2.01	0.61
1:B:1579:MET:HE2	1:B:1580:PHE:HE1	1.65	0.61
1:B:1579:MET:CE	1:B:1580:PHE:CE1	2.83	0.61
1:B:2420:HIS:ND1	1:B:2491:SER:O	2.34	0.61
1:B:2768:PHE:HB2	1:B:2857:PRO:HG3	1.83	0.61
1:B:3930:ILE:HG22	1:B:3995:VAL:HG11	1.82	0.61
1:D:4063:ASP:OD1	1:D:4064:MET:N	2.34	0.61
1:C:179:TYR:N	1:C:194:SER:O	2.33	0.61
1:C:659:TYR:OH	1:C:807:GLY:O	2.11	0.61
1:C:939:VAL:HG23	1:C:1053:ILE:CD1	2.30	0.61
1:C:2768:PHE:HB2	1:C:2857:PRO:HG3	1.83	0.61
1:C:3102:ASP:O	1:C:3106:MET:HG2	2.00	0.61
1:C:4063:ASP:OD1	1:C:4064:MET:N	2.34	0.61
1:A:131:LEU:HD22	1:D:2460:LEU:HD23	1.81	0.61
1:A:1720:LEU:HD23	1:A:1851:MET:HE1	1.82	0.61
1:A:2010:LEU:HD21	1:A:3653:PHE:HE1	1.66	0.61
1:B:2010:LEU:HD21	1:B:3653:PHE:HE1	1.66	0.61
1:B:3102:ASP:O	1:B:3106:MET:HG2	2.00	0.61
1:D:1720:LEU:HD23	1:D:1851:MET:HE1	1.82	0.61
1:D:3102:ASP:O	1:D:3106:MET:HG2	2.00	0.61
1:C:4745:LEU:O	1:C:4749:GLU:OE1	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1855:GLY:O	1:A:1859:VAL:HG23	2.00	0.61
1:A:2906:VAL:HG23	1:A:2911:LEU:HD23	1.83	0.61
1:A:3106:MET:HE2	1:A:3106:MET:N	2.16	0.61
2:G:49:MET:HG3	2:G:52:LYS:HZ1	1.65	0.61
1:B:3479:ALA:HB1	1:C:1141:ARG:CB	2.30	0.61
1:C:875:ALA:CB	1:C:922:LEU:HD22	2.30	0.61
1:C:1255:TYR:O	1:C:1275:ARG:NH2	2.30	0.61
1:A:1069:TRP:CH2	1:A:1112:ASP:CB	2.84	0.61
1:A:1157:GLU:OE1	1:A:1157:GLU:N	2.34	0.61
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	1.82	0.61
1:B:1069:TRP:CH2	1:B:1112:ASP:CB	2.84	0.61
1:D:1855:GLY:O	1:D:1859:VAL:HG23	2.00	0.61
1:D:2906:VAL:HG23	1:D:2911:LEU:HD23	1.83	0.61
1:D:3568:SER:O	1:D:3572:GLN:OE1	2.19	0.61
1:C:214:VAL:HG22	1:C:341:TYR:CD2	2.35	0.61
1:A:294:THR:O	1:A:298:GLY:N	2.34	0.61
1:A:939:VAL:HG23	1:A:1053:ILE:CD1	2.30	0.61
1:A:1579:MET:CE	1:A:1580:PHE:CE1	2.83	0.61
1:A:2612[B]:ARG:CZ	1:A:2612[B]:ARG:HB2	2.31	0.61
1:A:3779:VAL:HG13	1:A:3797:THR:CG2	2.30	0.61
2:F:25:HIS:HB3	2:F:102:GLU:OE2	1.99	0.61
1:B:214:VAL:HG22	1:B:341:TYR:CD2	2.35	0.61
1:B:294:THR:O	1:B:298:GLY:N	2.34	0.61
1:B:4063:ASP:OD1	1:B:4064:MET:N	2.34	0.61
1:D:875:ALA:CB	1:D:922:LEU:HD22	2.30	0.61
1:D:1157:GLU:OE1	1:D:1157:GLU:N	2.34	0.61
1:D:2420:HIS:ND1	1:D:2491:SER:O	2.34	0.61
1:D:4077:PHE:O	1:D:4081:VAL:HG23	2.01	0.61
1:C:2010:LEU:HD21	1:C:3653:PHE:HE1	1.66	0.61
1:C:3106:MET:N	1:C:3106:MET:HE2	2.16	0.61
1:A:2420:HIS:ND1	1:A:2491:SER:O	2.34	0.60
1:A:3324:VAL:CG1	1:A:3361:THR:HG22	2.30	0.60
1:A:4063:ASP:OD1	1:A:4064:MET:N	2.34	0.60
1:A:4655:PHE:CA	1:A:4796:MET:HE1	2.31	0.60
1:B:1430:THR:HG22	1:B:1432:THR:H	1.66	0.60
1:B:4655:PHE:CA	1:B:4796:MET:HE1	2.31	0.60
1:D:683:ARG:NH1	1:D:707:VAL:O	2.29	0.60
1:D:1430:THR:HG22	1:D:1432:THR:H	1.66	0.60
1:D:3729:MET:HE3	1:D:3770:LEU:HD22	1.83	0.60
1:C:3157:ILE:HG22	1:C:3162:GLN:HG2	1.83	0.60
1:A:2706:ILE:O	1:A:2710:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:25:HIS:HB3	2:G:102:GLU:OE2	1.99	0.60
1:B:939:VAL:HG23	1:B:1053:ILE:CD1	2.30	0.60
1:B:3020:THR:OG1	1:B:3023:LYS:O	2.07	0.60
1:B:3842:LEU:HD22	1:B:3933:PHE:CE2	2.36	0.60
1:B:4097:MET:HE2	1:B:4097:MET:HA	1.83	0.60
1:D:893:TYR:HB3	1:D:962:SER:OG	2.02	0.60
1:D:1141:ARG:HB3	1:C:3479:ALA:HB1	1.83	0.60
1:D:2612[B]:ARG:CZ	1:D:2612[B]:ARG:HB2	2.31	0.60
1:D:3930:ILE:HG22	1:D:3995:VAL:HG11	1.82	0.60
1:A:514:SER:O	1:A:518:ILE:HD12	2.01	0.60
1:A:875:ALA:CB	1:A:922:LEU:HD22	2.30	0.60
1:A:1931:LEU:HD13	1:A:1935:VAL:CG1	2.31	0.60
1:B:2612[B]:ARG:HB2	1:B:2612[B]:ARG:CZ	2.31	0.60
1:B:4749:GLU:HB3	1:B:4753:HIS:NE2	2.17	0.60
1:D:3157:ILE:HG22	1:D:3162:GLN:CG	2.32	0.60
1:C:514:SER:O	1:C:518:ILE:HD12	2.01	0.60
1:C:1069:TRP:CH2	1:C:1112:ASP:CB	2.84	0.60
1:C:2612[B]:ARG:CZ	1:C:2612[B]:ARG:HB2	2.31	0.60
1:C:3729:MET:HE3	1:C:3770:LEU:HD22	1.84	0.60
1:A:1579:MET:CE	1:A:1580:PHE:HE1	2.15	0.60
1:A:2516:ASP:OD1	1:A:2517:PHE:N	2.33	0.60
1:A:4749:GLU:HB3	1:A:4753:HIS:NE2	2.17	0.60
1:D:1290:ARG:HD2	1:D:1549:PHE:HB2	1.84	0.60
1:D:1703:LEU:HD23	1:D:1704:PRO:O	2.02	0.60
1:D:2789:PRO:O	1:D:2792:ARG:NH1	2.35	0.60
1:D:2970:SER:HA	1:D:2973:PHE:CD1	2.36	0.60
1:C:1157:GLU:OE1	1:C:1157:GLU:N	2.34	0.60
1:C:2970:SER:HA	1:C:2973:PHE:CD1	2.36	0.60
1:C:3157:ILE:HG22	1:C:3162:GLN:CG	2.32	0.60
1:C:3842:LEU:HD22	1:C:3933:PHE:CE2	2.36	0.60
1:C:4749:GLU:HB3	1:C:4753:HIS:NE2	2.17	0.60
1:A:179:TYR:N	1:A:194:SER:O	2.33	0.60
1:A:1236:THR:OG1	1:A:1608:MET:SD	2.54	0.60
1:A:2744:ASN:OD1	1:A:2745:VAL:N	2.35	0.60
1:A:4077:PHE:O	1:A:4081:VAL:HG23	2.01	0.60
1:B:357:LEU:HD12	1:B:377:ILE:O	2.02	0.60
1:B:2244:ARG:N	1:B:3861:GLU:OE1	2.32	0.60
1:B:2294:ASP:O	1:B:2298:VAL:HG23	2.00	0.60
1:B:3157:ILE:HG22	1:B:3162:GLN:CG	2.32	0.60
1:B:3324:VAL:CG1	1:B:3361:THR:HG22	2.30	0.60
1:D:744:VAL:HG22	1:D:759:ILE:CD1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2010:LEU:HD21	1:D:3653:PHE:HE1	1.66	0.60
1:C:125:ARG:NH2	1:C:191:VAL:O	2.32	0.60
1:C:2667:THR:OG1	1:C:2671:GLU:OE2	2.07	0.60
1:C:3614:LYS:O	1:C:3617:LYS:HG2	2.02	0.60
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	1.82	0.60
1:C:3980:LEU:O	1:C:3983:SER:OG	2.18	0.60
1:A:2970:SER:HA	1:A:2973:PHE:CD1	2.36	0.60
1:D:1069:TRP:CH2	1:D:1112:ASP:CB	2.84	0.60
1:D:1579:MET:CE	1:D:1580:PHE:CE1	2.83	0.60
1:C:1290:ARG:HD2	1:C:1549:PHE:HB2	1.84	0.60
1:C:1680:ARG:HG2	1:C:1797:ARG:HD3	1.82	0.60
1:C:2420:HIS:ND1	1:C:2491:SER:O	2.34	0.60
1:C:2744:ASN:OD1	1:C:2745:VAL:N	2.35	0.60
1:A:346:CYS:O	1:A:388:LEU:HD23	2.02	0.60
1:A:893:TYR:HB3	1:A:962:SER:OG	2.02	0.60
1:A:1430:THR:HG22	1:A:1432:THR:H	1.66	0.60
1:A:3157:ILE:HG22	1:A:3162:GLN:CG	2.32	0.60
1:B:426:ARG:NE	1:B:429:GLY:O	2.35	0.60
1:B:3568:SER:O	1:B:3572:GLN:OE1	2.19	0.60
1:D:2477:PRO:HD3	1:D:2546:MET:HE3	1.84	0.60
1:D:3546:ASP:C	1:D:3550:ARG:HE	2.10	0.60
1:D:4749:GLU:HB3	1:D:4753:HIS:NE2	2.17	0.60
1:C:357:LEU:HD12	1:C:377:ILE:O	2.02	0.60
1:C:1720:LEU:HD23	1:C:1851:MET:HE1	1.82	0.60
1:B:28:VAL:HG23	1:B:29:LEU:CD2	2.32	0.60
1:B:1720:LEU:HD23	1:B:1851:MET:HE1	1.82	0.60
1:B:1855:GLY:O	1:B:1859:VAL:HG23	2.00	0.60
1:B:2970:SER:HA	1:B:2973:PHE:CD1	2.36	0.60
1:B:3573:MET:HG3	1:B:3577:ARG:HE	1.67	0.60
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.01	0.60
1:D:1579:MET:CE	1:D:1580:PHE:HE1	2.15	0.60
1:D:2516:ASP:OD1	1:D:2517:PHE:N	2.33	0.60
1:D:3410:PRO:HB3	1:D:3469:PHE:CE2	2.37	0.60
1:D:4655:PHE:CA	1:D:4796:MET:HE1	2.31	0.60
1:C:28:VAL:HG23	1:C:29:LEU:CD2	2.32	0.60
1:C:1855:GLY:O	1:C:1859:VAL:HG23	2.00	0.60
1:C:3343:GLN:O	1:C:3346:VAL:HG12	2.02	0.60
1:A:1579:MET:HE2	1:A:1580:PHE:HE1	1.65	0.60
1:A:2527:LEU:HG	1:A:2531:ARG:HE	1.66	0.60
1:A:3671:ASP:OD1	1:A:3672:ARG:N	2.35	0.60
1:B:744:VAL:HG22	1:B:759:ILE:CD1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1579:MET:CE	1:B:1580:PHE:HE1	2.15	0.60
1:B:2285:GLU:OE2	1:B:3853:ALA:HB1	2.02	0.60
1:D:54:ASN:O	1:D:56:GLN:N	2.35	0.60
1:D:346:CYS:O	1:D:388:LEU:HD23	2.02	0.60
1:D:2161:GLN:HB3	1:D:2177:LEU:HD21	1.84	0.60
1:C:1431:THR:O	1:C:1431:THR:HG22	2.02	0.60
1:C:1579:MET:CE	1:C:1580:PHE:HE1	2.15	0.60
1:C:1931:LEU:HD13	1:C:1935:VAL:CG1	2.31	0.60
1:C:2906:VAL:HG23	1:C:2911:LEU:HD23	1.83	0.60
1:C:3386:GLU:O	1:C:3389:GLU:O	2.20	0.60
1:C:3573:MET:HG3	1:C:3577:ARG:HE	1.67	0.60
1:C:4655:PHE:CA	1:C:4796:MET:HE1	2.31	0.60
1:A:744:VAL:HG22	1:A:759:ILE:CD1	2.32	0.60
1:A:1931:LEU:HD13	1:A:1935:VAL:HG12	1.83	0.60
1:A:2004:GLU:N	1:A:2004:GLU:OE1	2.35	0.60
1:A:2789:PRO:O	1:A:2792:ARG:NH1	2.34	0.60
1:A:3157:ILE:HG22	1:A:3162:GLN:HG2	1.84	0.60
1:A:3458:PHE:O	1:A:3462:ASN:ND2	2.32	0.60
2:H:21:THR:N	2:H:107:GLU:O	2.35	0.60
1:B:1157:GLU:OE1	1:B:1157:GLU:N	2.34	0.60
1:B:2789:PRO:O	1:B:2792:ARG:NH1	2.35	0.60
1:B:3106:MET:HE2	1:B:3106:MET:N	2.16	0.60
1:B:3223:SER:N	1:B:3226:GLU:OE2	2.32	0.60
1:D:1931:LEU:HD13	1:D:1935:VAL:CG1	2.31	0.60
1:D:2744:ASN:OD1	1:D:2745:VAL:N	2.35	0.60
1:D:3343:GLN:O	1:D:3346:VAL:HG12	2.02	0.60
1:D:4097:MET:HE2	1:D:4097:MET:HA	1.83	0.60
1:D:4837:LEU:O	1:D:4841:VAL:HG23	2.02	0.60
1:C:2223:ILE:O	1:C:2223:ILE:HG23	2.01	0.60
1:C:2706:ILE:O	1:C:2710:LEU:HD23	2.01	0.60
1:C:3546:ASP:C	1:C:3550:ARG:HE	2.09	0.60
1:C:3729:MET:CE	1:C:3770:LEU:HD22	2.32	0.60
1:A:426:ARG:NE	1:A:429:GLY:O	2.35	0.59
1:A:1069:TRP:HE3	1:A:1603:VAL:HG21	1.67	0.59
1:A:1290:ARG:HD2	1:A:1549:PHE:HB2	1.84	0.59
1:A:2165:LEU:HD11	1:A:2177:LEU:HD22	1.84	0.59
1:A:3283:ARG:HG2	1:A:3287:ARG:HH12	1.67	0.59
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.84	0.59
1:A:3568:SER:O	1:A:3572:GLN:OE1	2.19	0.59
1:B:1290:ARG:HD2	1:B:1549:PHE:HB2	1.84	0.59
1:B:3157:ILE:HG22	1:B:3162:GLN:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:125:ARG:NH2	1:D:191:VAL:O	2.32	0.59
1:D:131:LEU:HD22	1:C:2460:LEU:HD23	1.82	0.59
1:D:1931:LEU:HD13	1:D:1935:VAL:HG12	1.83	0.59
1:D:3106:MET:HE2	1:D:3106:MET:N	2.16	0.59
1:D:3283:ARG:HG2	1:D:3287:ARG:HH12	1.67	0.59
1:C:1430:THR:HG22	1:C:1432:THR:H	1.66	0.59
1:C:1703:LEU:HD23	1:C:1704:PRO:O	2.02	0.59
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.35	0.59
1:A:2285:GLU:OE2	1:A:3853:ALA:HB1	2.02	0.59
1:B:346:CYS:O	1:B:388:LEU:HD23	2.02	0.59
1:B:1069:TRP:HE3	1:B:1603:VAL:HG21	1.67	0.59
1:B:1158:ASN:ND2	1:B:1182:ILE:O	2.34	0.59
1:B:1703:LEU:HD23	1:B:1704:PRO:O	2.02	0.59
1:B:2161:GLN:HB3	1:B:2177:LEU:HD21	1.84	0.59
1:B:2615:ARG:NH1	1:B:2617:SER:OG	2.36	0.59
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.84	0.59
1:B:3386:GLU:O	1:B:3389:GLU:O	2.20	0.59
1:B:3546:ASP:C	1:B:3550:ARG:HE	2.09	0.59
1:D:294:THR:O	1:D:298:GLY:N	2.34	0.59
1:D:514:SER:O	1:D:518:ILE:HD12	2.01	0.59
1:D:2527:LEU:HG	1:D:2531:ARG:HE	1.66	0.59
1:D:2615:ARG:NH1	1:D:2617:SER:OG	2.36	0.59
1:C:54:ASN:O	1:C:56:GLN:N	2.35	0.59
1:C:231:LEU:HD13	1:C:247:TYR:CE1	2.38	0.59
1:C:744:VAL:HG22	1:C:759:ILE:CD1	2.32	0.59
1:C:1008:SER:OG	1:C:1010:VAL:O	2.09	0.59
1:C:2789:PRO:O	1:C:2792:ARG:NH1	2.34	0.59
1:A:357:LEU:HD12	1:A:377:ILE:O	2.02	0.59
1:A:1679:ASN:ND2	1:A:1797:ARG:O	2.35	0.59
1:A:3410:PRO:HB3	1:A:3469:PHE:CE2	2.37	0.59
1:B:231:LEU:HD13	1:B:247:TYR:CE1	2.38	0.59
1:B:3729:MET:CE	1:B:3770:LEU:HD22	2.32	0.59
1:D:1186:ASP:OD2	1:D:1187:GLY:N	2.36	0.59
1:D:1680:ARG:HG2	1:D:1797:ARG:HD3	1.82	0.59
1:D:2223:ILE:HG23	1:D:2223:ILE:O	2.01	0.59
1:D:3157:ILE:HG22	1:D:3162:GLN:HG2	1.83	0.59
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.84	0.59
1:C:346:CYS:O	1:C:388:LEU:HD23	2.02	0.59
1:C:3568:SER:O	1:C:3572:GLN:OE1	2.19	0.59
1:C:4077:PHE:O	1:C:4081:VAL:HG23	2.01	0.59
1:C:4178:LEU:HD23	1:C:4179:GLY:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:ASN:O	1:A:56:GLN:N	2.35	0.59
1:A:659:TYR:OH	1:A:807:GLY:O	2.11	0.59
1:A:3343:GLN:O	1:A:3346:VAL:HG12	2.02	0.59
1:A:3614:LYS:O	1:A:3617:LYS:HG2	2.02	0.59
1:A:4178:LEU:HD23	1:A:4179:GLY:N	2.17	0.59
1:B:1931:LEU:HD13	1:B:1935:VAL:CG1	2.31	0.59
1:B:2527:LEU:HG	1:B:2531:ARG:HE	1.66	0.59
1:B:2906:VAL:HG23	1:B:2911:LEU:HD23	1.83	0.59
1:B:3729:MET:HE3	1:B:3770:LEU:HD22	1.83	0.59
1:D:357:LEU:HD12	1:D:377:ILE:O	2.02	0.59
1:D:2706:ILE:O	1:D:2710:LEU:HD23	2.02	0.59
1:C:2285:GLU:OE2	1:C:3853:ALA:HB1	2.02	0.59
1:C:2477:PRO:HD3	1:C:2546:MET:HE3	1.84	0.59
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.84	0.59
1:A:1703:LEU:HD23	1:A:1704:PRO:O	2.02	0.59
1:A:3702:VAL:HA	1:A:3778:MET:CE	2.33	0.59
1:B:54:ASN:O	1:B:56:GLN:N	2.34	0.59
1:B:1431:THR:O	1:B:1431:THR:HG22	2.02	0.59
1:B:2460:LEU:HD23	1:C:131:LEU:HD22	1.84	0.59
1:B:2924:GLN:O	1:B:2928:LYS:HG3	2.03	0.59
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.35	0.59
1:D:2285:GLU:OE2	1:D:3853:ALA:HB1	2.02	0.59
1:D:3386:GLU:O	1:D:3389:GLU:O	2.20	0.59
1:D:3702:VAL:HA	1:D:3778:MET:CE	2.33	0.59
1:C:2924:GLN:O	1:C:2928:LYS:HG3	2.03	0.59
1:A:3546:ASP:C	1:A:3550:ARG:HE	2.09	0.59
1:A:3904:ARG:NH1	1:A:3973:CYS:SG	2.76	0.59
2:G:21:THR:N	2:G:107:GLU:O	2.35	0.59
1:B:659:TYR:OH	1:B:807:GLY:O	2.11	0.59
1:B:1771:LEU:HB3	1:B:2153:MET:HE2	1.84	0.59
1:B:3614:LYS:O	1:B:3617:LYS:HG2	2.02	0.59
1:D:1158:ASN:ND2	1:D:1182:ILE:O	2.34	0.59
1:C:426:ARG:NE	1:C:429:GLY:O	2.35	0.59
1:C:3283:ARG:HG2	1:C:3287:ARG:HH12	1.67	0.59
1:C:5014:TYR:HE2	6:C:5304:A1BD2:C1	2.16	0.59
1:A:2615:ARG:NH1	1:A:2617:SER:OG	2.36	0.59
1:A:3510:ILE:O	1:A:3514:LEU:HD23	2.03	0.59
1:A:3729:MET:HE3	1:A:3770:LEU:HD22	1.83	0.59
1:B:2256:TYR:O	1:B:2260:ASN:OD1	2.21	0.59
1:B:3283:ARG:HG2	1:B:3287:ARG:HH12	1.67	0.59
1:B:5014:TYR:HE2	6:B:5304:A1BD2:C1	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2650:ARG:NH1	1:D:2651:CYS:SG	2.76	0.59
1:D:2744:ASN:OD1	1:D:2745:VAL:HG23	2.02	0.59
1:D:3416:VAL:O	1:D:3420:ARG:N	2.36	0.59
1:D:3614:LYS:O	1:D:3617:LYS:HG2	2.02	0.59
1:C:988:LEU:HB2	1:C:1039:LEU:HD21	1.85	0.59
1:C:1263:THR:OG1	1:C:1265:ASP:OD1	2.13	0.59
1:C:2615:ARG:NH1	1:C:2617:SER:OG	2.36	0.59
1:A:28:VAL:O	1:A:31:GLU:N	2.29	0.59
1:A:1431:THR:HG22	1:A:1431:THR:O	2.02	0.59
1:B:3671:ASP:OD1	1:B:3672:ARG:N	2.35	0.59
1:B:4178:LEU:HD23	1:B:4179:GLY:N	2.17	0.59
1:D:988:LEU:HB2	1:D:1039:LEU:HD21	1.85	0.59
1:D:3930:ILE:HG23	1:D:3951:PHE:HE1	1.68	0.59
1:C:28:VAL:O	1:C:31:GLU:N	2.29	0.59
1:C:893:TYR:HB3	1:C:962:SER:OG	2.02	0.59
1:C:2256:TYR:O	1:C:2260:ASN:OD1	2.21	0.59
1:C:2674:LEU:HD23	1:C:2677:LYS:HZ1	1.67	0.59
1:C:4097:MET:HE2	1:C:4097:MET:HA	1.83	0.59
1:B:683:ARG:NH1	1:B:707:VAL:O	2.29	0.59
1:B:1186:ASP:OD2	1:B:1187:GLY:N	2.36	0.59
1:B:2165:LEU:HD11	1:B:2177:LEU:HD22	1.84	0.59
1:B:2477:PRO:HD3	1:B:2546:MET:HE3	1.84	0.59
1:B:2744:ASN:OD1	1:B:2745:VAL:N	2.35	0.59
1:B:3479:ALA:HB1	1:C:1141:ARG:HB3	1.83	0.59
1:D:3729:MET:CE	1:D:3770:LEU:HD22	2.32	0.59
1:A:231:LEU:HD13	1:A:247:TYR:CE1	2.38	0.59
1:A:1158:ASN:ND2	1:A:1182:ILE:O	2.34	0.59
1:A:3686:GLU:O	1:A:3687:GLU:HG3	2.03	0.59
1:B:2381:GLU:HA	1:B:2384:ILE:HD12	1.85	0.59
1:B:2706:ILE:O	1:B:2710:LEU:HD23	2.02	0.59
1:B:2880:GLU:HA	1:B:2883:HIS:CE1	2.38	0.59
1:B:3510:ILE:O	1:B:3514:LEU:HD23	2.03	0.59
1:B:3980:LEU:O	1:B:3983:SER:OG	2.18	0.59
1:D:28:VAL:HG23	1:D:29:LEU:CD2	2.32	0.59
1:D:231:LEU:HD13	1:D:247:TYR:CE1	2.37	0.59
1:D:2305:CYS:O	1:D:2324:ASN:N	2.36	0.59
1:C:1771:LEU:HB3	1:C:2153:MET:HE2	1.84	0.59
1:C:2012:PHE:CZ	1:C:2031:LEU:HD23	2.38	0.59
1:C:3410:PRO:HB3	1:C:3469:PHE:CE2	2.37	0.59
1:C:4837:LEU:O	1:C:4841:VAL:HG23	2.02	0.59
1:A:2650:ARG:NH1	1:A:2651:CYS:SG	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2744:ASN:OD1	1:A:2745:VAL:HG23	2.02	0.58
1:A:2758:PHE:O	1:A:2762:THR:OG1	2.10	0.58
1:A:3729:MET:CE	1:A:3770:LEU:HD22	2.32	0.58
1:A:4097:MET:HA	1:A:4097:MET:HE2	1.83	0.58
2:E:49:MET:HG3	2:E:52:LYS:HZ1	1.68	0.58
1:B:3702:VAL:HA	1:B:3778:MET:CE	2.33	0.58
1:D:3114:LYS:HD3	1:D:3116:SER:H	1.69	0.58
1:D:3405:LEU:HD22	1:D:3409:TYR:CZ	2.38	0.58
1:D:3573:MET:HG3	1:D:3577:ARG:HE	1.67	0.58
1:D:3671:ASP:OD1	1:D:3672:ARG:N	2.35	0.58
1:C:1931:LEU:HD13	1:C:1935:VAL:HG12	1.83	0.58
1:C:2381:GLU:HA	1:C:2384:ILE:HD12	1.85	0.58
1:C:2758:PHE:O	1:C:2762:THR:OG1	2.10	0.58
1:A:323:LEU:HD23	1:A:323:LEU:H	1.68	0.58
1:A:988:LEU:HB2	1:A:1039:LEU:HD21	1.85	0.58
1:A:1676:LEU:HD22	1:A:2167:ILE:HD12	1.85	0.58
1:A:2381:GLU:HA	1:A:2384:ILE:HD12	1.85	0.58
1:A:3323:ILE:HD11	1:A:3338:LEU:HD23	1.84	0.58
1:A:3930:ILE:HG23	1:A:3951:PHE:HE1	1.68	0.58
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.38	0.58
1:B:2223:ILE:HG23	1:B:2223:ILE:O	2.01	0.58
1:B:2583:LEU:HB3	1:B:2622:LEU:HD22	1.85	0.58
1:B:3410:PRO:HB3	1:B:3469:PHE:CE2	2.37	0.58
1:D:179:TYR:N	1:D:194:SER:O	2.33	0.58
1:D:415:ILE:HD11	1:D:490:CYS:SG	2.43	0.58
1:D:426:ARG:NE	1:D:429:GLY:O	2.35	0.58
1:D:1771:LEU:HB3	1:D:2153:MET:HE2	1.84	0.58
1:D:2880:GLU:HA	1:D:2883:HIS:CE1	2.38	0.58
1:D:5014:TYR:HE2	6:D:5304:A1BD2:C1	2.16	0.58
1:C:3114:LYS:HD3	1:C:3116:SER:H	1.69	0.58
1:A:2161:GLN:HB3	1:A:2177:LEU:HD21	1.84	0.58
1:A:3386:GLU:O	1:A:3389:GLU:O	2.20	0.58
1:A:3573:MET:HG3	1:A:3577:ARG:HE	1.67	0.58
2:E:21:THR:N	2:E:107:GLU:O	2.35	0.58
1:B:4837:LEU:O	1:B:4841:VAL:HG23	2.02	0.58
1:D:884:LEU:HA	1:D:887:ILE:HD12	1.85	0.58
1:D:2165:LEU:HD11	1:D:2177:LEU:HD22	1.85	0.58
1:D:3510:ILE:O	1:D:3514:LEU:HD23	2.03	0.58
1:D:4178:LEU:HD23	1:D:4179:GLY:N	2.17	0.58
1:C:294:THR:O	1:C:298:GLY:N	2.34	0.58
1:C:2527:LEU:HG	1:C:2531:ARG:HE	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2880:GLU:HA	1:C:2883:HIS:CE1	2.38	0.58
1:C:3015:LEU:O	1:C:3019:SER:OG	2.18	0.58
1:A:1186:ASP:OD2	1:A:1187:GLY:N	2.36	0.58
1:B:893:TYR:HB3	1:B:962:SER:OG	2.02	0.58
1:B:988:LEU:HB2	1:B:1039:LEU:HD21	1.85	0.58
1:B:3343:GLN:O	1:B:3346:VAL:HG12	2.02	0.58
1:B:3686:GLU:O	1:B:3687:GLU:HG3	2.03	0.58
1:D:1027:LEU:HD21	1:D:1031:THR:CG2	2.34	0.58
1:D:1431:THR:HG22	1:D:1431:THR:O	2.02	0.58
1:D:3904:ARG:NH1	1:D:3973:CYS:SG	2.76	0.58
1:C:2583:LEU:HB3	1:C:2622:LEU:HD22	1.85	0.58
1:C:2650:ARG:NH1	1:C:2651:CYS:SG	2.76	0.58
1:C:3510:ILE:O	1:C:3514:LEU:HD23	2.03	0.58
1:A:2477:PRO:HD3	1:A:2546:MET:HE3	1.84	0.58
1:B:972:LEU:HD11	1:B:1041:GLN:OE1	2.04	0.58
1:B:1931:LEU:HD13	1:B:1935:VAL:HG12	1.83	0.58
1:B:3323:ILE:HD11	1:B:3338:LEU:HD23	1.84	0.58
1:D:1069:TRP:HE3	1:D:1603:VAL:HG21	1.67	0.58
1:D:2012:PHE:CZ	1:D:2031:LEU:HD23	2.38	0.58
1:D:3686:GLU:O	1:D:3687:GLU:HG3	2.03	0.58
1:C:1069:TRP:HE3	1:C:1603:VAL:HG21	1.67	0.58
1:C:1679:ASN:ND2	1:C:1797:ARG:O	2.35	0.58
1:C:2305:CYS:O	1:C:2324:ASN:N	2.36	0.58
1:C:3671:ASP:OD1	1:C:3672:ARG:N	2.35	0.58
1:C:3702:VAL:HA	1:C:3778:MET:CE	2.33	0.58
1:C:4978:HIS:ND1	1:C:4982:GLU:OE1	2.32	0.58
1:A:2441:HIS:HA	1:A:2444:GLN:OE1	2.04	0.58
1:A:2583:LEU:HB3	1:A:2622:LEU:HD22	1.85	0.58
1:A:5014:TYR:HE2	6:A:5304:A1BD2:C1	2.16	0.58
1:D:2381:GLU:HA	1:D:2384:ILE:HD12	1.85	0.58
1:C:1069:TRP:CE3	1:C:1603:VAL:CG2	2.86	0.58
1:C:3458:PHE:O	1:C:3462:ASN:ND2	2.32	0.58
1:C:3904:ARG:NH1	1:C:3973:CYS:SG	2.76	0.58
1:A:1069:TRP:CE3	1:A:1603:VAL:CG2	2.86	0.58
1:A:3256:LEU:HD13	1:A:3266:MET:HG3	1.86	0.58
1:B:415:ILE:HD11	1:B:490:CYS:SG	2.43	0.58
1:B:3405:LEU:HD22	1:B:3409:TYR:CZ	2.38	0.58
1:D:3323:ILE:HD11	1:D:3338:LEU:HD23	1.84	0.58
1:C:323:LEU:HD23	1:C:323:LEU:H	1.68	0.58
1:C:415:ILE:HD11	1:C:490:CYS:SG	2.43	0.58
1:C:1158:ASN:ND2	1:C:1182:ILE:O	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2161:GLN:HB3	1:C:2177:LEU:HD21	1.84	0.58
1:A:2012:PHE:CZ	1:A:2031:LEU:HD23	2.38	0.58
1:B:993:HIS:NE2	1:B:1022:VAL:O	2.30	0.58
1:B:2650:ARG:NH1	1:B:2651:CYS:SG	2.76	0.58
1:D:323:LEU:HD23	1:D:323:LEU:H	1.68	0.58
1:D:988:LEU:CB	1:D:1039:LEU:HD21	2.34	0.58
1:D:3015:LEU:O	1:D:3019:SER:OG	2.18	0.58
1:D:3256:LEU:HD13	1:D:3266:MET:HG3	1.86	0.58
1:D:3980:LEU:O	1:D:3983:SER:OG	2.18	0.58
1:C:2744:ASN:OD1	1:C:2745:VAL:HG23	2.02	0.58
1:C:3930:ILE:HG23	1:C:3951:PHE:HE1	1.68	0.58
1:A:629:ARG:HB2	2:E:34:LYS:HE2	1.84	0.58
1:A:663:TYR:OH	1:A:665:GLU:OE2	2.22	0.58
1:A:1228:ILE:HD11	1:D:3571:TRP:CE2	2.39	0.58
1:A:3416:VAL:O	1:A:3420:ARG:N	2.36	0.58
1:A:3980:LEU:O	1:A:3983:SER:OG	2.18	0.58
1:A:4837:LEU:O	1:A:4841:VAL:HG23	2.02	0.58
1:B:2744:ASN:OD1	1:B:2745:VAL:HG23	2.02	0.58
1:B:3681:GLY:O	1:B:3682:GLU:HG3	2.03	0.58
1:D:1069:TRP:CE3	1:D:1603:VAL:CG2	2.86	0.58
1:C:972:LEU:HD11	1:C:1041:GLN:OE1	2.04	0.58
1:C:988:LEU:CB	1:C:1039:LEU:HD21	2.34	0.58
1:C:1069:TRP:CE2	1:C:1602:PRO:HG3	2.39	0.58
1:A:415:ILE:HD11	1:A:490:CYS:SG	2.43	0.58
1:A:3114:LYS:HD3	1:A:3116:SER:H	1.68	0.58
1:B:3930:ILE:HG23	1:B:3951:PHE:HE1	1.68	0.58
1:D:1069:TRP:CE2	1:D:1602:PRO:HG3	2.39	0.58
1:D:2481:LYS:O	1:D:2481:LYS:HD2	2.04	0.58
1:D:2924:GLN:O	1:D:2928:LYS:HG3	2.03	0.58
1:D:3458:PHE:O	1:D:3462:ASN:ND2	2.32	0.58
1:C:1186:ASP:OD2	1:C:1187:GLY:N	2.36	0.58
1:C:3405:LEU:HD22	1:C:3409:TYR:CZ	2.38	0.58
1:A:884:LEU:HA	1:A:887:ILE:HD12	1.85	0.57
1:A:2256:TYR:O	1:A:2260:ASN:OD1	2.21	0.57
1:A:2481:LYS:O	1:A:2481:LYS:HD2	2.04	0.57
1:A:2880:GLU:HA	1:A:2883:HIS:CE1	2.38	0.57
1:A:4839:MET:HE1	1:D:4820:VAL:HG11	1.85	0.57
1:B:3546:ASP:O	1:B:3550:ARG:NE	2.35	0.57
1:B:4668:LEU:HG	1:B:4672:LYS:HZ3	1.68	0.57
1:D:2256:TYR:O	1:D:2260:ASN:OD1	2.21	0.57
1:D:3842:LEU:HD22	1:D:3933:PHE:CZ	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4545:GLU:O	1:D:4549:VAL:HG23	2.04	0.57
1:C:1733:GLU:HG2	1:C:2201:LEU:HD23	1.86	0.57
1:C:2165:LEU:HD11	1:C:2177:LEU:HD22	1.85	0.57
1:C:3681:GLY:O	1:C:3682:GLU:HG3	2.03	0.57
1:A:4545:GLU:O	1:A:4549:VAL:HG23	2.04	0.57
2:F:21:THR:N	2:F:107:GLU:O	2.35	0.57
1:B:1027:LEU:HD21	1:B:1031:THR:CG2	2.34	0.57
1:B:1069:TRP:CE3	1:B:1603:VAL:CG2	2.86	0.57
1:D:2582:MET:SD	1:D:2583:LEU:N	2.77	0.57
1:D:3681:GLY:O	1:D:3682:GLU:HG3	2.03	0.57
1:C:4721:LYS:HG2	1:C:4741:LEU:HD13	1.86	0.57
1:A:1069:TRP:CE2	1:A:1602:PRO:HG3	2.39	0.57
1:A:4721:LYS:HG2	1:A:4741:LEU:HD13	1.86	0.57
1:B:3904:ARG:NH1	1:B:3973:CYS:SG	2.76	0.57
1:D:1676:LEU:HD22	1:D:2167:ILE:HD12	1.85	0.57
1:D:2583:LEU:HB3	1:D:2622:LEU:HD22	1.85	0.57
1:C:2151:ASP:O	1:C:2155:LEU:HD23	2.05	0.57
1:C:4545:GLU:O	1:C:4549:VAL:HG23	2.04	0.57
1:A:972:LEU:HD11	1:A:1041:GLN:OE1	2.04	0.57
1:A:1027:LEU:HD21	1:A:1031:THR:CG2	2.34	0.57
1:A:1771:LEU:HB3	1:A:2153:MET:HE2	1.84	0.57
1:A:2810:LYS:O	1:A:2814:LYS:HG3	2.05	0.57
1:B:323:LEU:H	1:B:323:LEU:HD23	1.68	0.57
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.87	0.57
1:B:3114:LYS:HD3	1:B:3116:SER:H	1.68	0.57
1:B:3416:VAL:O	1:B:3420:ARG:N	2.36	0.57
1:D:2151:ASP:O	1:D:2155:LEU:HD23	2.05	0.57
1:D:2979:ALA:O	1:D:2982:SER:OG	2.22	0.57
1:C:884:LEU:HA	1:C:887:ILE:HD12	1.86	0.57
1:C:2441:HIS:HA	1:C:2444:GLN:OE1	2.04	0.57
1:C:3323:ILE:HD11	1:C:3338:LEU:HD23	1.84	0.57
1:A:988:LEU:CB	1:A:1039:LEU:HD21	2.34	0.57
1:A:2781:VAL:HG23	1:A:2789:PRO:HG3	1.87	0.57
1:A:3842:LEU:HD22	1:A:3933:PHE:CZ	2.39	0.57
1:B:2481:LYS:O	1:B:2481:LYS:HD2	2.04	0.57
1:C:50:GLU:OE2	1:C:61:ASP:N	2.35	0.57
1:C:1676:LEU:HD22	1:C:2167:ILE:HD12	1.85	0.57
1:C:1999:ARG:O	1:C:3638:MET:SD	2.63	0.57
1:A:1999:ARG:O	1:A:3638:MET:SD	2.63	0.57
1:A:4668:LEU:HG	1:A:4672:LYS:HZ3	1.69	0.57
1:B:884:LEU:HA	1:B:887:ILE:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2305:CYS:O	1:B:2324:ASN:N	2.36	0.57
1:B:2810:LYS:O	1:B:2814:LYS:HG3	2.05	0.57
1:B:4743:MET:CE	1:B:4748:LEU:HD11	2.34	0.57
1:D:1733:GLU:HG2	1:D:2201:LEU:HD23	1.86	0.57
1:D:1999:ARG:O	1:D:3638:MET:SD	2.63	0.57
1:D:4743:MET:CE	1:D:4748:LEU:HD11	2.34	0.57
1:C:3853:ALA:HA	1:C:3856:LEU:HD11	1.86	0.57
1:A:28:VAL:HG23	1:A:29:LEU:CD2	2.32	0.57
1:A:1733:GLU:HG2	1:A:2201:LEU:HD23	1.86	0.57
1:A:2010:LEU:HD21	1:A:3653:PHE:CE1	2.40	0.57
1:A:2924:GLN:O	1:A:2928:LYS:HG3	2.03	0.57
1:A:4743:MET:CE	1:A:4748:LEU:HD11	2.34	0.57
1:B:498:THR:O	1:B:553:ARG:NH2	2.38	0.57
1:B:2441:HIS:HA	1:B:2444:GLN:OE1	2.04	0.57
1:D:2441:HIS:HA	1:D:2444:GLN:OE1	2.04	0.57
1:D:3100:SER:O	1:D:3104:GLU:OE1	2.23	0.57
1:D:4127:GLU:OE1	1:D:4131:ARG:NH2	2.28	0.57
1:D:4736:ARG:NH2	1:C:4079:ASP:OD2	2.38	0.57
1:D:4966:ASP:OD1	1:D:4967:TYR:N	2.38	0.57
1:C:3416:VAL:O	1:C:3420:ARG:N	2.36	0.57
1:C:3686:GLU:O	1:C:3687:GLU:HG3	2.03	0.57
1:C:4668:LEU:HG	1:C:4672:LYS:HZ3	1.69	0.57
1:A:498:THR:O	1:A:553:ARG:NH2	2.38	0.57
1:A:1245:PHE:CD2	1:A:1290:ARG:NH1	2.73	0.57
1:A:2582:MET:SD	1:A:2583:LEU:N	2.77	0.57
1:A:3405:LEU:HD22	1:A:3409:TYR:CZ	2.38	0.57
1:B:988:LEU:CB	1:B:1039:LEU:HD21	2.34	0.57
1:B:3458:PHE:O	1:B:3462:ASN:ND2	2.32	0.57
1:D:972:LEU:HD11	1:D:1041:GLN:OE1	2.04	0.57
1:D:1245:PHE:CD2	1:D:1290:ARG:NH1	2.73	0.57
1:D:2010:LEU:HD21	1:D:3653:PHE:CE1	2.40	0.57
1:C:498:THR:O	1:C:553:ARG:NH2	2.38	0.57
1:C:985:VAL:HG22	1:C:1043:VAL:HG21	1.87	0.57
1:C:3842:LEU:HD22	1:C:3933:PHE:CZ	2.39	0.57
1:A:1983:ALA:HA	1:A:1986:MET:CE	2.35	0.57
1:A:3681:GLY:O	1:A:3682:GLU:HG3	2.03	0.57
1:A:4839:MET:HE3	1:D:4823:LEU:CD2	2.34	0.57
1:B:50:GLU:OE2	1:B:61:ASP:N	2.35	0.57
1:B:663:TYR:OH	1:B:665:GLU:OE2	2.22	0.57
1:B:1676:LEU:HD22	1:B:2167:ILE:HD12	1.85	0.57
1:B:2582:MET:SD	1:B:2583:LEU:N	2.77	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2858:GLN:O	1:B:2860:PRO:HD3	2.05	0.57
1:B:3100:SER:O	1:B:3104:GLU:OE1	2.23	0.57
1:B:3256:LEU:HD13	1:B:3266:MET:HG3	1.85	0.57
1:B:3853:ALA:HA	1:B:3856:LEU:HD11	1.86	0.57
1:D:50:GLU:OE2	1:D:61:ASP:N	2.35	0.57
1:D:317:ARG:NH1	1:D:349:GLN:OE1	2.38	0.57
1:C:3015:LEU:O	1:C:3019:SER:N	2.37	0.57
1:C:3100:SER:O	1:C:3104:GLU:OE1	2.23	0.57
1:A:2238:TYR:O	1:A:2242:ILE:HD12	2.05	0.57
1:A:4966:ASP:OD1	1:A:4967:TYR:N	2.38	0.57
1:B:1263:THR:OG1	1:B:1265:ASP:OD1	2.13	0.57
1:B:1999:ARG:O	1:B:3638:MET:SD	2.63	0.57
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.35	0.57
1:B:2751:LEU:CD2	1:B:2817:ILE:HD11	2.35	0.57
1:B:3842:LEU:HD22	1:B:3933:PHE:CZ	2.39	0.57
1:B:4966:ASP:OD1	1:B:4967:TYR:N	2.38	0.57
1:D:663:TYR:OH	1:D:665:GLU:OE2	2.22	0.57
1:D:1983:ALA:HA	1:D:1986:MET:CE	2.35	0.57
1:D:4668:LEU:HG	1:D:4672:LYS:HZ3	1.69	0.57
1:C:1027:LEU:HD21	1:C:1031:THR:CG2	2.34	0.57
1:C:1245:PHE:CD2	1:C:1290:ARG:NH1	2.73	0.57
1:C:2858:GLN:O	1:C:2860:PRO:HD3	2.05	0.57
1:C:3256:LEU:HD13	1:C:3266:MET:HG3	1.85	0.57
1:A:110:ARG:NH2	1:A:117:TYR:OH	2.38	0.56
1:A:317:ARG:NH1	1:A:349:GLN:OE1	2.38	0.56
1:A:1105:ALA:HB2	1:A:1191:VAL:HG11	1.87	0.56
1:A:1491:ASN:OD1	1:A:1492:CYS:N	2.38	0.56
1:A:2751:LEU:CD2	1:A:2817:ILE:HD11	2.35	0.56
1:A:2957:PHE:CE1	1:A:3038:MET:HE1	2.40	0.56
1:B:995:VAL:HG22	1:B:998:ARG:HH12	1.70	0.56
1:B:1069:TRP:CE2	1:B:1602:PRO:HG3	2.39	0.56
1:D:110:ARG:NH2	1:D:117:TYR:OH	2.38	0.56
1:D:1105:ALA:HB2	1:D:1191:VAL:HG11	1.87	0.56
1:D:2957:PHE:CE1	1:D:3038:MET:HE1	2.40	0.56
1:A:2023:LEU:O	1:A:2028:ARG:NH2	2.38	0.56
1:A:2209:GLU:O	1:A:2213:ASN:ND2	2.39	0.56
1:A:3100:SER:O	1:A:3104:GLU:OE1	2.23	0.56
1:A:3254:GLY:O	1:A:3258:GLU:OE1	2.23	0.56
1:A:4929:LEU:O	1:A:4933:GLN:OE1	2.23	0.56
1:B:2781:VAL:HG23	1:B:2789:PRO:HG3	1.87	0.56
1:B:4929:LEU:O	1:B:4933:GLN:OE1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:993:HIS:NE2	1:D:1022:VAL:O	2.30	0.56
1:D:3254:GLY:O	1:D:3258:GLU:OE1	2.23	0.56
1:D:4929:LEU:O	1:D:4933:GLN:OE1	2.23	0.56
1:C:2010:LEU:HD21	1:C:3653:PHE:CE1	2.40	0.56
1:C:2023:LEU:O	1:C:2028:ARG:NH2	2.38	0.56
1:C:2481:LYS:O	1:C:2481:LYS:HD2	2.04	0.56
1:C:4929:LEU:O	1:C:4933:GLN:OE1	2.23	0.56
1:A:985:VAL:HG22	1:A:1043:VAL:HG21	1.86	0.56
1:A:995:VAL:HG22	1:A:998:ARG:HH12	1.70	0.56
1:A:2151:ASP:O	1:A:2155:LEU:HD23	2.05	0.56
1:B:931:THR:O	1:B:935:LEU:HD23	2.06	0.56
1:B:1491:ASN:OD1	1:B:1492:CYS:N	2.38	0.56
1:B:1983:ALA:HA	1:B:1986:MET:CE	2.35	0.56
1:B:2151:ASP:O	1:B:2155:LEU:HD23	2.05	0.56
1:B:2238:TYR:O	1:B:2242:ILE:HD12	2.05	0.56
1:B:4545:GLU:O	1:B:4549:VAL:HG23	2.04	0.56
1:D:28:VAL:O	1:D:31:GLU:N	2.29	0.56
1:D:498:THR:O	1:D:553:ARG:NH2	2.38	0.56
1:D:884:LEU:O	1:D:888:GLU:OE1	2.24	0.56
1:D:995:VAL:HG22	1:D:998:ARG:HH12	1.70	0.56
1:D:1491:ASN:OD1	1:D:1492:CYS:N	2.38	0.56
1:D:1742:THR:O	1:D:1960:ALA:HB2	2.06	0.56
1:D:2209:GLU:O	1:D:2213:ASN:ND2	2.39	0.56
1:D:2781:VAL:HG23	1:D:2789:PRO:HG3	1.87	0.56
1:D:2810:LYS:O	1:D:2814:LYS:HG3	2.05	0.56
1:D:2858:GLN:O	1:D:2860:PRO:HD3	2.05	0.56
1:D:4721:LYS:HG2	1:D:4741:LEU:HD13	1.86	0.56
1:C:317:ARG:NH1	1:C:349:GLN:OE1	2.38	0.56
1:C:1491:ASN:OD1	1:C:1492:CYS:N	2.38	0.56
1:C:1983:ALA:HA	1:C:1986:MET:CE	2.35	0.56
1:C:2582:MET:SD	1:C:2583:LEU:N	2.77	0.56
1:C:2810:LYS:O	1:C:2814:LYS:HG3	2.05	0.56
1:C:4743:MET:CE	1:C:4748:LEU:HD11	2.34	0.56
1:A:856:VAL:HG12	1:A:991:ASN:ND2	2.21	0.56
1:B:2037:ASP:OD1	1:B:2038:LEU:N	2.39	0.56
1:D:985:VAL:HG22	1:D:1043:VAL:HG21	1.87	0.56
1:C:884:LEU:O	1:C:888:GLU:OE1	2.24	0.56
1:A:1439:VAL:HG21	1:A:1448:VAL:HG11	1.88	0.56
1:A:3853:ALA:HA	1:A:3856:LEU:HD11	1.86	0.56
1:B:1733:GLU:HG2	1:B:2201:LEU:HD23	1.86	0.56
1:B:3986:TRP:O	1:B:3990:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:GLY:C	1:D:443:LEU:HD23	2.31	0.56
1:D:931:THR:O	1:D:935:LEU:HD23	2.06	0.56
1:D:2037:ASP:OD1	1:D:2038:LEU:N	2.39	0.56
1:D:3853:ALA:HA	1:D:3856:LEU:HD11	1.86	0.56
1:D:4820:VAL:HG12	1:D:4822:THR:H	1.71	0.56
1:C:43:GLY:C	1:C:443:LEU:HD23	2.31	0.56
1:C:1105:ALA:HB2	1:C:1191:VAL:HG11	1.87	0.56
1:C:2957:PHE:CE1	1:C:3038:MET:HE1	2.40	0.56
1:A:4548:ARG:O	1:A:4552:LEU:HD23	2.06	0.56
1:B:43:GLY:C	1:B:443:LEU:HD23	2.31	0.56
1:B:1245:PHE:CD2	1:B:1290:ARG:NH1	2.73	0.56
1:B:2209:GLU:O	1:B:2213:ASN:ND2	2.39	0.56
1:B:4721:LYS:HG2	1:B:4741:LEU:HD13	1.86	0.56
1:D:2238:TYR:O	1:D:2242:ILE:HD12	2.05	0.56
1:C:110:ARG:NH2	1:C:117:TYR:OH	2.39	0.56
1:C:663:TYR:OH	1:C:665:GLU:OE2	2.22	0.56
1:C:2667:THR:HG1	1:C:2671:GLU:CD	2.09	0.56
1:A:2774:ASN:ND2	1:B:1506:GLN:O	2.34	0.56
1:B:1676:LEU:HD22	1:B:2167:ILE:CD1	2.36	0.56
1:B:1742:THR:O	1:B:1960:ALA:HB2	2.06	0.56
1:B:2347:GLU:OE2	1:B:3852:LYS:NZ	2.39	0.56
1:B:4548:ARG:O	1:B:4552:LEU:HD23	2.06	0.56
1:D:2872:GLN:O	1:D:2876:GLU:OE1	2.24	0.56
1:C:1676:LEU:HD22	1:C:2167:ILE:CD1	2.36	0.56
1:C:2037:ASP:OD1	1:C:2038:LEU:N	2.39	0.56
1:C:2347:GLU:OE2	1:C:3852:LYS:NZ	2.39	0.56
1:C:4966:ASP:OD1	1:C:4967:TYR:N	2.38	0.56
1:A:3020:THR:OG1	1:A:3023:LYS:O	2.07	0.56
2:E:6:THR:HG23	2:E:6:THR:O	2.06	0.56
1:B:110:ARG:NH2	1:B:117:TYR:OH	2.38	0.56
1:B:1679:ASN:ND2	1:B:1797:ARG:O	2.35	0.56
1:B:2872:GLN:O	1:B:2876:GLU:OE1	2.24	0.56
1:B:4902:GLU:OE1	1:B:4902:GLU:N	2.39	0.56
1:D:856:VAL:HG12	1:D:991:ASN:ND2	2.21	0.56
1:D:1579:MET:HE2	1:D:1580:PHE:HE1	1.65	0.56
1:D:3176:GLY:HA3	1:D:3268:HIS:CE1	2.41	0.56
1:D:3986:TRP:O	1:D:3990:VAL:HG23	2.05	0.56
1:D:4548:ARG:O	1:D:4552:LEU:HD23	2.06	0.56
1:C:995:VAL:HG22	1:C:998:ARG:HH12	1.70	0.56
1:C:1005:TRP:HB3	1:C:1021:LEU:HD22	1.88	0.56
1:C:2751:LEU:CD2	1:C:2817:ILE:HD11	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:GLU:OE2	1:A:61:ASP:N	2.35	0.56
1:A:2305:CYS:O	1:A:2324:ASN:N	2.36	0.56
1:A:2460:LEU:HD23	1:B:131:LEU:HD22	1.87	0.56
1:B:2010:LEU:HD21	1:B:3653:PHE:CE1	2.40	0.56
1:B:4745:LEU:HA	1:B:4748:LEU:HD12	1.87	0.56
1:D:2434:GLY:O	1:D:2508:ARG:NE	2.39	0.56
1:D:3704:HIS:O	1:D:3708:THR:HG23	2.06	0.56
1:C:1069:TRP:CH2	1:C:1112:ASP:HB2	2.41	0.56
1:C:1742:THR:O	1:C:1960:ALA:HB2	2.06	0.56
1:C:2135:LEU:HD21	1:C:3662:ILE:CG2	2.36	0.56
1:C:2238:TYR:O	1:C:2242:ILE:HD12	2.05	0.56
1:C:4749:GLU:O	1:C:4753:HIS:CD2	2.59	0.56
1:A:1742:THR:O	1:A:1960:ALA:HB2	2.06	0.56
1:A:3201:MET:CE	1:A:3203:VAL:HG22	2.36	0.56
1:B:1105:ALA:HB2	1:B:1191:VAL:HG11	1.87	0.56
1:B:1461:ASP:OD2	1:B:1468:LYS:NZ	2.39	0.56
1:B:2434:GLY:O	1:B:2508:ARG:NE	2.39	0.56
1:B:4820:VAL:HG11	1:C:4839:MET:HE1	1.88	0.56
1:D:2751:LEU:CD2	1:D:2817:ILE:HD11	2.35	0.56
1:C:856:VAL:HG12	1:C:991:ASN:ND2	2.21	0.56
1:C:2612[A]:ARG:NH1	1:C:2612[A]:ARG:HB3	2.20	0.56
1:C:2872:GLN:O	1:C:2876:GLU:OE1	2.24	0.56
1:C:2967:MET:O	1:C:2970:SER:OG	2.14	0.56
1:C:3412:LEU:O	1:C:3416:VAL:HG23	2.06	0.56
1:C:3704:HIS:O	1:C:3708:THR:HG23	2.06	0.56
1:C:3986:TRP:O	1:C:3990:VAL:HG23	2.05	0.56
1:A:884:LEU:O	1:A:888:GLU:OE1	2.24	0.55
1:A:2872:GLN:O	1:A:2876:GLU:OE1	2.24	0.55
1:A:3568:SER:OG	1:A:3569:LEU:N	2.39	0.55
1:A:3986:TRP:O	1:A:3990:VAL:HG23	2.05	0.55
1:B:317:ARG:NH1	1:B:349:GLN:OE1	2.38	0.55
1:B:1005:TRP:HB3	1:B:1021:LEU:HD22	1.88	0.55
1:B:2023:LEU:O	1:B:2028:ARG:NH2	2.38	0.55
1:B:2479:LEU:HD11	1:B:2540:THR:HG21	1.88	0.55
1:B:2906:VAL:HG23	1:B:2911:LEU:CD2	2.36	0.55
1:B:2957:PHE:CE1	1:B:3038:MET:HE1	2.40	0.55
1:D:1509:ILE:H	1:D:1509:ILE:HD12	1.71	0.55
1:D:2479:LEU:HD11	1:D:2540:THR:HG21	1.88	0.55
1:D:3015:LEU:O	1:D:3019:SER:N	2.37	0.55
1:C:939:VAL:HG23	1:C:1053:ILE:HD11	1.88	0.55
1:C:1439:VAL:HG21	1:C:1448:VAL:HG11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2781:VAL:HG23	1:C:2789:PRO:HG3	1.87	0.55
1:C:3176:GLY:HA3	1:C:3268:HIS:CE1	2.41	0.55
1:A:939:VAL:HG23	1:A:1053:ILE:HD11	1.88	0.55
1:A:2037:ASP:OD1	1:A:2038:LEU:N	2.39	0.55
1:A:3546:ASP:O	1:A:3550:ARG:NE	2.36	0.55
1:B:228:ASP:OD1	1:B:229:GLU:N	2.40	0.55
1:B:4820:VAL:HG12	1:B:4822:THR:H	1.71	0.55
1:D:1069:TRP:CH2	1:D:1112:ASP:HB3	2.41	0.55
1:D:1676:LEU:HD22	1:D:2167:ILE:CD1	2.36	0.55
1:D:2970:SER:HA	1:D:2973:PHE:CE1	2.42	0.55
1:D:3842:LEU:HD21	1:D:3875:MET:HE2	1.88	0.55
1:C:2434:GLY:O	1:C:2508:ARG:NE	2.39	0.55
1:C:2479:LEU:HD11	1:C:2540:THR:HG21	1.88	0.55
1:A:43:GLY:C	1:A:443:LEU:HD23	2.31	0.55
1:A:900:ASN:OD1	1:A:901:LYS:N	2.40	0.55
1:A:1069:TRP:CH2	1:A:1112:ASP:HB3	2.41	0.55
1:A:2274:ASP:OD1	1:A:2274:ASP:C	2.50	0.55
1:A:2479:LEU:HD11	1:A:2540:THR:HG21	1.89	0.55
1:A:2858:GLN:O	1:A:2860:PRO:HD3	2.05	0.55
1:A:3704:HIS:O	1:A:3708:THR:HG23	2.06	0.55
1:A:4749:GLU:O	1:A:4753:HIS:CD2	2.59	0.55
2:F:6:THR:HG23	2:F:6:THR:O	2.06	0.55
1:B:101:LEU:C	1:B:102:LEU:HD12	2.32	0.55
1:B:3176:GLY:HA3	1:B:3268:HIS:CE1	2.41	0.55
1:B:4079:ASP:OD2	1:C:4736:ARG:NH2	2.40	0.55
1:B:4157:ASP:OD2	1:B:4159:ARG:NH2	2.40	0.55
1:B:4749:GLU:O	1:B:4753:HIS:CD2	2.59	0.55
1:D:357:LEU:HD11	1:D:376:ALA:HB1	1.89	0.55
1:D:2274:ASP:OD1	1:D:2274:ASP:C	2.49	0.55
1:D:3137:LEU:CD2	1:D:3189:ALA:HB1	2.37	0.55
1:D:3201:MET:CE	1:D:3203:VAL:HG22	2.36	0.55
1:D:3568:SER:OG	1:D:3569:LEU:N	2.39	0.55
1:C:931:THR:O	1:C:935:LEU:HD23	2.06	0.55
1:C:1434:TYR:HB2	1:C:1572:ILE:HG21	1.88	0.55
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.42	0.55
1:A:1461:ASP:OD2	1:A:1468:LYS:NZ	2.39	0.55
1:A:1676:LEU:HD22	1:A:2167:ILE:CD1	2.36	0.55
1:A:2135:LEU:HD21	1:A:3662:ILE:CG2	2.36	0.55
1:A:3176:GLY:HA3	1:A:3268:HIS:CE1	2.41	0.55
1:A:4820:VAL:HG12	1:A:4822:THR:H	1.71	0.55
1:B:2612[A]:ARG:NH1	1:B:2612[A]:ARG:HB3	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2758:PHE:O	1:B:2762:THR:OG1	2.10	0.55
1:B:3457:ASN:O	1:B:3460:VAL:HG12	2.07	0.55
1:D:879:HIS:NE2	1:D:906:CYS:SG	2.69	0.55
1:D:1005:TRP:HB3	1:D:1021:LEU:HD22	1.88	0.55
1:D:1434:TYR:HB2	1:D:1572:ILE:HG21	1.88	0.55
1:D:2612[A]:ARG:NH1	1:D:2612[A]:ARG:HB3	2.20	0.55
1:C:357:LEU:HD11	1:C:376:ALA:HB1	1.89	0.55
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.42	0.55
1:C:1069:TRP:CH2	1:C:1112:ASP:HB3	2.41	0.55
1:C:1509:ILE:H	1:C:1509:ILE:HD12	1.71	0.55
1:C:2142:TYR:OH	1:C:3648:ARG:NH1	2.40	0.55
1:C:2906:VAL:HG23	1:C:2911:LEU:CD2	2.36	0.55
1:C:3137:LEU:CD2	1:C:3189:ALA:HB1	2.37	0.55
1:C:3842:LEU:HD21	1:C:3875:MET:HE2	1.88	0.55
1:C:4548:ARG:O	1:C:4552:LEU:HD23	2.06	0.55
1:A:1005:TRP:HB3	1:A:1021:LEU:HD22	1.88	0.55
2:H:25:HIS:CE1	2:H:40:ARG:HG2	2.42	0.55
1:B:1069:TRP:CE3	1:B:1603:VAL:HG21	2.42	0.55
1:B:2135:LEU:HD21	1:B:3662:ILE:CG2	2.36	0.55
1:B:2979:ALA:O	1:B:2982:SER:OG	2.22	0.55
1:B:3254:GLY:O	1:B:3258:GLU:OE1	2.23	0.55
1:B:3412:LEU:O	1:B:3416:VAL:HG23	2.06	0.55
1:D:1439:VAL:HG21	1:D:1448:VAL:HG11	1.88	0.55
1:D:2142:TYR:OH	1:D:3648:ARG:NH1	2.40	0.55
1:D:3412:LEU:O	1:D:3416:VAL:HG23	2.06	0.55
1:D:4749:GLU:O	1:D:4753:HIS:CD2	2.59	0.55
1:D:4839:MET:HE1	1:C:4820:VAL:HG11	1.88	0.55
1:C:900:ASN:OD1	1:C:901:LYS:N	2.40	0.55
1:C:2199:ARG:NH2	1:C:2243:SER:OG	2.40	0.55
1:C:4820:VAL:HG12	1:C:4822:THR:H	1.71	0.55
1:A:931:THR:O	1:A:935:LEU:HD23	2.06	0.55
1:A:1069:TRP:CH2	1:A:1112:ASP:HB2	2.41	0.55
1:A:3412:LEU:O	1:A:3416:VAL:HG23	2.06	0.55
1:A:3457:ASN:O	1:A:3460:VAL:HG12	2.07	0.55
1:A:3562:LYS:HZ2	1:A:3565:GLY:N	2.05	0.55
1:A:4157:ASP:OD1	1:A:4160:LEU:N	2.37	0.55
2:F:25:HIS:CE1	2:F:40:ARG:HG2	2.42	0.55
1:B:856:VAL:HG12	1:B:991:ASN:ND2	2.21	0.55
1:B:1069:TRP:CH2	1:B:1112:ASP:HB2	2.41	0.55
1:D:900:ASN:OD1	1:D:901:LYS:N	2.40	0.55
1:D:1069:TRP:CH2	1:D:1112:ASP:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2199:ARG:NH2	1:D:2243:SER:OG	2.40	0.55
1:D:2215:LEU:HD23	1:D:2223:ILE:HD13	1.88	0.55
1:D:3304:CYS:SG	1:D:3305:THR:N	2.80	0.55
1:D:3457:ASN:O	1:D:3460:VAL:HG12	2.07	0.55
1:C:879:HIS:CE1	1:C:906:CYS:SG	3.00	0.55
1:C:3568:SER:OG	1:C:3569:LEU:N	2.39	0.55
1:C:4745:LEU:HA	1:C:4748:LEU:HD12	1.87	0.55
1:A:1263:THR:OG1	1:A:1265:ASP:OD1	2.13	0.55
1:A:1445:PRO:HA	1:A:1448:VAL:HG12	1.89	0.55
1:A:2582:MET:SD	1:A:2583:LEU:HG	2.47	0.55
1:A:2906:VAL:HG23	1:A:2911:LEU:CD2	2.36	0.55
1:A:3304:CYS:SG	1:A:3305:THR:N	2.80	0.55
1:A:4658:ILE:HD13	1:A:4792:LEU:HB3	1.89	0.55
1:A:5009:TYR:CE1	1:A:5013:MET:HE3	2.42	0.55
2:F:21:THR:N	2:F:49:MET:SD	2.80	0.55
1:B:548:VAL:HG21	1:B:582:HIS:CD2	2.42	0.55
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.42	0.55
1:B:1069:TRP:CH2	1:B:1112:ASP:HB3	2.41	0.55
1:B:2199:ARG:NH2	1:B:2243:SER:OG	2.40	0.55
1:B:3500:GLY:O	1:B:3504:SER:OG	2.25	0.55
1:B:3568:SER:OG	1:B:3569:LEU:N	2.39	0.55
1:B:3842:LEU:HD21	1:B:3875:MET:HE2	1.88	0.55
1:D:2023:LEU:O	1:D:2028:ARG:NH2	2.38	0.55
1:D:2135:LEU:HD21	1:D:3662:ILE:CG2	2.36	0.55
1:D:3105:LYS:O	1:D:3109:ASN:ND2	2.40	0.55
1:D:3622:LYS:HB3	1:D:3625:SER:HB3	1.89	0.55
1:C:2691:TYR:OH	1:C:2693:GLN:OE1	2.25	0.55
1:A:260:TRP:CE3	1:A:282:ILE:HG22	2.42	0.55
1:A:879:HIS:CE1	1:A:906:CYS:SG	3.00	0.55
1:A:1069:TRP:CE3	1:A:1603:VAL:HG21	2.42	0.55
1:A:2199:ARG:NH2	1:A:2243:SER:OG	2.40	0.55
1:A:2205:GLU:O	1:A:2208:MET:HB3	2.07	0.55
1:A:2325:PRO:O	1:A:2328:GLY:N	2.40	0.55
1:A:3105:LYS:O	1:A:3109:ASN:ND2	2.40	0.55
1:A:3842:LEU:HD21	1:A:3875:MET:HE2	1.88	0.55
1:A:4209:GLN:NE2	1:A:4210:VAL:HG23	2.22	0.55
1:A:4820:VAL:HG11	1:B:4839:MET:HE1	1.89	0.55
1:B:2205:GLU:O	1:B:2208:MET:HB3	2.07	0.55
1:B:2562:ILE:CG2	1:B:2610:LEU:HD11	2.37	0.55
1:B:2970:SER:HA	1:B:2973:PHE:CE1	2.42	0.55
1:B:3097:GLU:O	1:B:3101:GLU:OE1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3201:MET:CE	1:B:3203:VAL:HG22	2.36	0.55
1:B:4658:ILE:HD13	1:B:4792:LEU:HB3	1.89	0.55
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.42	0.55
1:D:1110:ARG:HB3	1:D:1112:ASP:OD1	2.07	0.55
1:D:3562:LYS:HZ2	1:D:3565:GLY:N	2.04	0.55
1:C:2205:GLU:O	1:C:2208:MET:HB3	2.07	0.55
1:C:3254:GLY:O	1:C:3258:GLU:OE1	2.23	0.55
1:A:101:LEU:C	1:A:102:LEU:HD12	2.32	0.55
1:A:548:VAL:HG21	1:A:582:HIS:CD2	2.42	0.55
1:A:2612[A]:ARG:NH1	1:A:2612[A]:ARG:HB3	2.20	0.55
1:B:884:LEU:O	1:B:888:GLU:OE1	2.24	0.55
1:B:1509:ILE:H	1:B:1509:ILE:HD12	1.71	0.55
1:B:1720:LEU:HD23	1:B:1851:MET:HE3	1.88	0.55
1:B:2215:LEU:HD23	1:B:2223:ILE:HD13	1.88	0.55
1:B:3704:HIS:O	1:B:3708:THR:HG23	2.06	0.55
1:D:1720:LEU:HD23	1:D:1851:MET:HE3	1.88	0.55
1:C:228:ASP:OD1	1:C:229:GLU:N	2.40	0.55
1:C:4037:ASN:O	1:C:4042:ARG:NH2	2.40	0.55
1:C:4902:GLU:N	1:C:4902:GLU:OE1	2.39	0.55
1:A:125:ARG:NH2	1:A:191:VAL:O	2.32	0.55
1:A:357:LEU:HD11	1:A:376:ALA:HB1	1.89	0.55
1:A:2215:LEU:HD23	1:A:2223:ILE:HD13	1.89	0.55
1:A:3622:LYS:HB3	1:A:3625:SER:HB3	1.89	0.55
2:G:21:THR:N	2:G:49:MET:SD	2.80	0.55
1:B:879:HIS:CE1	1:B:906:CYS:SG	3.00	0.55
1:B:900:ASN:OD1	1:B:901:LYS:N	2.40	0.55
1:B:3015:LEU:O	1:B:3019:SER:N	2.37	0.55
1:D:260:TRP:CE3	1:D:282:ILE:HG22	2.42	0.55
1:D:1435:TYR:OH	1:D:1564:PHE:HD2	1.90	0.55
1:D:2691:TYR:OH	1:D:2693:GLN:OE1	2.25	0.55
1:D:3546:ASP:O	1:D:3550:ARG:NE	2.35	0.55
1:D:4745:LEU:HA	1:D:4748:LEU:HD12	1.87	0.55
1:C:12:GLN:O	1:C:165:VAL:HG23	2.07	0.55
1:C:1445:PRO:HA	1:C:1448:VAL:HG12	1.88	0.55
1:C:2325:PRO:O	1:C:2328:GLY:N	2.40	0.55
1:C:3622:LYS:HB3	1:C:3625:SER:HB3	1.89	0.55
1:C:4127:GLU:OE1	1:C:4131:ARG:NH2	2.28	0.55
1:A:2434:GLY:O	1:A:2508:ARG:NE	2.39	0.54
1:A:2562:ILE:CG2	1:A:2610:LEU:HD11	2.37	0.54
1:A:3568:SER:C	1:A:3572:GLN:OE1	2.51	0.54
1:A:4157:ASP:OD2	1:A:4159:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4902:GLU:OE1	1:A:4902:GLU:N	2.39	0.54
2:E:21:THR:N	2:E:49:MET:SD	2.80	0.54
2:H:21:THR:N	2:H:49:MET:SD	2.80	0.54
1:B:357:LEU:HD11	1:B:376:ALA:HB1	1.89	0.54
1:B:2096:GLU:OE1	1:B:2096:GLU:N	2.40	0.54
1:B:3105:LYS:O	1:B:3109:ASN:ND2	2.40	0.54
1:B:3304:CYS:SG	1:B:3305:THR:N	2.80	0.54
1:B:4545:GLU:OE2	1:B:4548:ARG:NH2	2.33	0.54
1:D:939:VAL:HG23	1:D:1053:ILE:HD11	1.88	0.54
1:D:1228:ILE:HD11	1:C:3571:TRP:CE2	2.42	0.54
1:D:1679:ASN:ND2	1:D:1797:ARG:O	2.35	0.54
1:D:2205:GLU:O	1:D:2208:MET:HB3	2.07	0.54
1:D:2325:PRO:O	1:D:2328:GLY:N	2.40	0.54
1:D:4037:ASN:O	1:D:4042:ARG:NH2	2.40	0.54
1:C:1069:TRP:CE3	1:C:1603:VAL:HG21	2.42	0.54
1:C:3457:ASN:O	1:C:3460:VAL:HG12	2.07	0.54
1:A:1110:ARG:HB3	1:A:1112:ASP:OD1	2.07	0.54
1:A:4037:ASN:O	1:A:4042:ARG:NH2	2.40	0.54
1:B:2801:ASP:OD1	1:B:2802:LYS:N	2.41	0.54
1:B:3137:LEU:CD2	1:B:3189:ALA:HB1	2.37	0.54
1:B:3875:MET:HE3	1:B:3953:LYS:HG3	1.89	0.54
1:B:4209:GLN:NE2	1:B:4210:VAL:HG23	2.22	0.54
1:D:548:VAL:HA	1:D:551:LEU:HD13	1.89	0.54
1:D:1461:ASP:OD2	1:D:1468:LYS:NZ	2.39	0.54
1:D:2582:MET:SD	1:D:2583:LEU:HG	2.47	0.54
1:D:3465:ASN:OD1	1:D:3467:MET:HB3	2.07	0.54
1:C:499:THR:HG23	1:C:502:HIS:H	1.73	0.54
1:C:548:VAL:HA	1:C:551:LEU:HD13	1.89	0.54
1:C:2274:ASP:OD1	1:C:2274:ASP:C	2.50	0.54
1:C:2475:GLN:NE2	1:C:2476:ILE:O	2.41	0.54
1:C:5009:TYR:CE1	1:C:5013:MET:HE3	2.42	0.54
1:A:730:VAL:HA	1:A:1476:MET:HE1	1.89	0.54
1:A:2801:ASP:OD1	1:A:2802:LYS:N	2.41	0.54
1:A:2970:SER:HA	1:A:2973:PHE:CE1	2.42	0.54
2:E:25:HIS:CE1	2:E:40:ARG:HG2	2.42	0.54
1:B:1434:TYR:HB2	1:B:1572:ILE:HG21	1.88	0.54
1:B:2325:PRO:O	1:B:2328:GLY:N	2.40	0.54
1:B:4542:GLY:O	1:B:4546:VAL:HG13	2.07	0.54
1:D:12:GLN:O	1:D:165:VAL:HG23	2.07	0.54
1:D:2906:VAL:HG23	1:D:2911:LEU:CD2	2.36	0.54
1:D:3529:ASP:OD2	1:D:3595:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3568:SER:C	1:D:3572:GLN:OE1	2.51	0.54
1:D:4542:GLY:O	1:D:4546:VAL:HG13	2.07	0.54
1:C:260:TRP:CE3	1:C:282:ILE:HG22	2.42	0.54
1:C:2209:GLU:O	1:C:2213:ASN:ND2	2.38	0.54
1:C:2215:LEU:HD23	1:C:2223:ILE:HD13	1.88	0.54
1:C:2970:SER:HA	1:C:2973:PHE:CE1	2.42	0.54
1:A:228:ASP:OD1	1:A:229:GLU:N	2.40	0.54
1:A:1509:ILE:HD12	1:A:1509:ILE:H	1.71	0.54
1:A:2475:GLN:NE2	1:A:2476:ILE:O	2.41	0.54
1:A:3097:GLU:O	1:A:3101:GLU:OE1	2.25	0.54
2:H:6:THR:HG23	2:H:6:THR:O	2.06	0.54
2:G:25:HIS:CE1	2:G:40:ARG:HG2	2.42	0.54
1:B:2142:TYR:OH	1:B:3648:ARG:NH1	2.40	0.54
1:D:101:LEU:C	1:D:102:LEU:HD12	2.32	0.54
1:D:730:VAL:HA	1:D:1476:MET:HE1	1.89	0.54
1:D:1069:TRP:CE3	1:D:1603:VAL:HG21	2.42	0.54
1:D:3097:GLU:O	1:D:3101:GLU:OE1	2.25	0.54
1:D:3179:LYS:O	1:D:3180:ASN:OD1	2.26	0.54
1:D:5009:TYR:CE1	1:D:5013:MET:HE3	2.42	0.54
1:C:1435:TYR:OH	1:C:1564:PHE:HD2	1.90	0.54
1:C:2562:ILE:CG2	1:C:2610:LEU:HD11	2.37	0.54
1:C:2724:GLU:OE1	1:C:2724:GLU:N	2.41	0.54
1:C:3304:CYS:SG	1:C:3305:THR:N	2.80	0.54
1:C:3568:SER:C	1:C:3572:GLN:OE1	2.51	0.54
1:C:3809:ASN:ND2	1:C:3812:VAL:HG23	2.23	0.54
1:C:4658:ILE:HD13	1:C:4792:LEU:HB3	1.89	0.54
1:A:2096:GLU:OE1	1:A:2096:GLU:N	2.40	0.54
1:A:3137:LEU:CD2	1:A:3189:ALA:HB1	2.37	0.54
1:B:260:TRP:CE3	1:B:282:ILE:HG22	2.42	0.54
1:B:548:VAL:HA	1:B:551:LEU:HD13	1.89	0.54
1:B:924:MET:HG3	1:B:925:SER:N	2.23	0.54
1:B:939:VAL:HG23	1:B:1053:ILE:HD11	1.88	0.54
1:B:1924:GLU:OE2	1:B:1929:MET:N	2.41	0.54
1:B:3568:SER:C	1:B:3572:GLN:OE1	2.51	0.54
1:B:5009:TYR:CE1	1:B:5013:MET:HE3	2.42	0.54
1:D:650:VAL:O	1:D:777:PHE:N	2.38	0.54
1:D:2096:GLU:OE1	1:D:2096:GLU:N	2.40	0.54
1:C:3201:MET:CE	1:C:3203:VAL:HG22	2.36	0.54
1:C:3282:PRO:HG3	1:C:3345:ILE:HG22	1.89	0.54
1:A:831:ARG:HH21	1:A:1199:VAL:HG21	1.73	0.54
1:A:1434:TYR:HB2	1:A:1572:ILE:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1784:ALA:O	2:E:82:TYR:OH	2.13	0.54
1:A:3529:ASP:OD2	1:A:3595:ARG:NH2	2.41	0.54
1:A:3850:GLN:OE1	1:A:3873:LYS:NZ	2.29	0.54
1:A:4745:LEU:HA	1:A:4748:LEU:HD12	1.87	0.54
1:B:1445:PRO:HA	1:B:1448:VAL:HG12	1.89	0.54
1:B:3622:LYS:HB3	1:B:3625:SER:HB3	1.89	0.54
1:D:1924:GLU:OE2	1:D:1929:MET:N	2.41	0.54
1:D:2549:ALA:HA	1:D:2552:ARG:NH1	2.23	0.54
1:D:2562:ILE:CG2	1:D:2610:LEU:HD11	2.37	0.54
1:D:2801:ASP:OD1	1:D:2802:LYS:N	2.41	0.54
1:D:3809:ASN:ND2	1:D:3812:VAL:HG23	2.23	0.54
1:D:3966:THR:HG22	1:D:3970:GLN:OE1	2.08	0.54
1:C:101:LEU:C	1:C:102:LEU:HD12	2.32	0.54
1:C:548:VAL:HG21	1:C:582:HIS:CD2	2.42	0.54
1:C:874:LEU:CD2	1:C:1046:LEU:HD21	2.38	0.54
1:C:1207:ASP:O	1:C:1210:SER:OG	2.24	0.54
1:C:1703:LEU:HD21	1:C:1707:LEU:HB2	1.90	0.54
1:C:3465:ASN:OD1	1:C:3467:MET:HB3	2.07	0.54
1:A:2691:TYR:OH	1:A:2693:GLN:OE1	2.25	0.54
1:A:3270:ILE:HG21	1:A:3334:TRP:HE3	1.70	0.54
1:A:3282:PRO:HG3	1:A:3345:ILE:HG22	1.89	0.54
1:A:3465:ASN:OD1	1:A:3467:MET:HB3	2.07	0.54
1:A:3809:ASN:ND2	1:A:3812:VAL:HG23	2.23	0.54
1:B:1439:VAL:HG21	1:B:1448:VAL:HG11	1.88	0.54
1:B:2475:GLN:NE2	1:B:2476:ILE:O	2.40	0.54
1:D:918:ARG:O	1:D:922:LEU:HD23	2.08	0.54
1:D:4157:ASP:OD1	1:D:4160:LEU:N	2.37	0.54
1:C:3179:LYS:O	1:C:3180:ASN:OD1	2.26	0.54
1:C:3875:MET:HE3	1:C:3953:LYS:HG3	1.89	0.54
1:A:12:GLN:O	1:A:165:VAL:HG23	2.07	0.54
1:A:2142:TYR:OH	1:A:3648:ARG:NH1	2.40	0.54
1:A:2724:GLU:OE1	1:A:2724:GLU:N	2.41	0.54
1:A:3966:THR:HG22	1:A:3970:GLN:OE1	2.08	0.54
1:A:4542:GLY:O	1:A:4546:VAL:HG13	2.08	0.54
2:G:6:THR:HG23	2:G:6:THR:O	2.06	0.54
1:B:12:GLN:O	1:B:165:VAL:HG23	2.07	0.54
1:B:812:HIS:O	1:B:815:VAL:HG12	2.08	0.54
1:B:2582:MET:SD	1:B:2583:LEU:HG	2.47	0.54
1:B:3562:LYS:HZ2	1:B:3565:GLY:N	2.06	0.54
1:B:3809:ASN:ND2	1:B:3812:VAL:HG23	2.23	0.54
1:D:1610:ASN:OD1	1:D:1702:HIS:CD2	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:918:ARG:O	1:C:922:LEU:HD23	2.08	0.54
1:C:3966:THR:HG22	1:C:3970:GLN:OE1	2.08	0.54
1:C:4545:GLU:OE2	1:C:4548:ARG:NH2	2.33	0.54
1:A:1610:ASN:OD1	1:A:1702:HIS:CD2	2.61	0.54
1:A:2267:MET:HE1	1:A:2270:SER:O	2.08	0.54
1:A:3179:LYS:O	1:A:3180:ASN:OD1	2.26	0.54
1:B:2274:ASP:OD1	1:B:2274:ASP:C	2.49	0.54
1:D:548:VAL:HG21	1:D:582:HIS:CD2	2.42	0.54
1:D:879:HIS:CE1	1:D:906:CYS:SG	3.00	0.54
1:D:1445:PRO:HA	1:D:1448:VAL:HG12	1.89	0.54
1:D:1703:LEU:HD21	1:D:1707:LEU:HB2	1.90	0.54
1:D:3107:VAL:HG12	1:D:3175:LEU:HD22	1.90	0.54
1:D:4209:GLN:NE2	1:D:4210:VAL:HG23	2.22	0.54
1:A:499:THR:HG23	1:A:502:HIS:H	1.73	0.54
1:A:1141:ARG:HB2	1:D:3479:ALA:HB1	1.89	0.54
1:B:831:ARG:HH21	1:B:1199:VAL:HG21	1.73	0.54
1:B:2724:GLU:N	1:B:2724:GLU:OE1	2.41	0.54
1:B:2908:TYR:HB2	1:B:2916:LYS:HE2	1.90	0.54
1:C:730:VAL:HA	1:C:1476:MET:HE1	1.89	0.54
1:C:1110:ARG:HB3	1:C:1112:ASP:OD1	2.07	0.54
1:C:2582:MET:SD	1:C:2583:LEU:HG	2.47	0.54
1:C:2801:ASP:OD1	1:C:2802:LYS:N	2.41	0.54
1:C:3105:LYS:O	1:C:3109:ASN:ND2	2.40	0.54
1:C:4241:THR:O	1:C:4245:MET:SD	2.66	0.54
1:C:4542:GLY:O	1:C:4546:VAL:HG13	2.07	0.54
1:A:548:VAL:HA	1:A:551:LEU:HD13	1.89	0.53
1:A:1435:TYR:OH	1:A:1564:PHE:HD2	1.90	0.53
1:A:1720:LEU:HD23	1:A:1851:MET:HE3	1.88	0.53
1:A:2350:ALA:O	1:A:2354:VAL:HG23	2.08	0.53
1:A:2908:TYR:HA	1:A:2911:LEU:HG	1.90	0.53
1:B:730:VAL:HA	1:B:1476:MET:HE1	1.89	0.53
1:B:874:LEU:CD2	1:B:1046:LEU:HD21	2.38	0.53
1:B:893:TYR:O	1:B:903:LEU:HD12	2.09	0.53
1:B:2622:LEU:O	1:B:2626:LEU:HD13	2.09	0.53
1:B:2691:TYR:OH	1:B:2693:GLN:OE1	2.25	0.53
1:B:2991:HIS:O	1:B:2994:GLU:N	2.41	0.53
1:B:3107:VAL:HG12	1:B:3175:LEU:HD22	1.90	0.53
1:B:3802:ILE:HD12	1:B:3886:ARG:HG3	1.89	0.53
1:B:4157:ASP:OD1	1:B:4160:LEU:N	2.37	0.53
1:D:831:ARG:HH21	1:D:1199:VAL:HG21	1.73	0.53
1:D:2191:PHE:HA	1:D:2198:MET:HE3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4755:GLU:O	1:D:4756:ARG:NE	2.41	0.53
1:C:1720:LEU:HD23	1:C:1851:MET:HE3	1.88	0.53
1:C:3394:VAL:HG22	1:C:3398:PHE:CE1	2.43	0.53
1:A:918:ARG:O	1:A:922:LEU:HD23	2.08	0.53
1:A:2908:TYR:HB2	1:A:2916:LYS:HE2	1.90	0.53
1:A:3107:VAL:HG12	1:A:3175:LEU:HD22	1.90	0.53
1:A:3394:VAL:HG22	1:A:3398:PHE:CE1	2.43	0.53
1:A:3802:ILE:HD12	1:A:3886:ARG:HG3	1.89	0.53
1:B:3465:ASN:OD1	1:B:3467:MET:HB3	2.07	0.53
1:B:4680:LYS:HB3	1:B:4686:LEU:HD22	1.90	0.53
1:D:2894:LEU:O	1:D:2898:GLY:N	2.36	0.53
1:D:3875:MET:HE3	1:D:3953:LYS:HG3	1.89	0.53
1:D:4839:MET:HE3	1:C:4823:LEU:CD2	2.37	0.53
1:D:4902:GLU:OE1	1:D:4902:GLU:N	2.39	0.53
1:C:404:ILE:HG21	1:C:481:GLU:HG3	1.90	0.53
1:C:893:TYR:O	1:C:903:LEU:HD12	2.09	0.53
1:C:2549:ALA:HA	1:C:2552:ARG:NH1	2.23	0.53
1:C:2623:LEU:O	1:C:2627:VAL:HG23	2.09	0.53
1:C:4209:GLN:NE2	1:C:4210:VAL:HG23	2.22	0.53
1:A:812:HIS:O	1:A:815:VAL:HG12	2.08	0.53
1:A:2549:ALA:HA	1:A:2552:ARG:NH1	2.23	0.53
1:A:2562:ILE:HG22	1:A:2610:LEU:HD11	1.91	0.53
1:B:499:THR:HG23	1:B:502:HIS:H	1.73	0.53
1:B:875:ALA:HB3	1:B:922:LEU:HD22	1.91	0.53
1:B:1703:LEU:HD21	1:B:1707:LEU:HB2	1.90	0.53
1:B:3529:ASP:OD2	1:B:3595:ARG:NH2	2.41	0.53
1:D:228:ASP:OD1	1:D:229:GLU:N	2.40	0.53
1:D:812:HIS:O	1:D:815:VAL:HG12	2.08	0.53
1:D:924:MET:HG3	1:D:925:SER:N	2.23	0.53
1:D:2350:ALA:O	1:D:2354:VAL:HG23	2.08	0.53
1:D:2908:TYR:HB2	1:D:2916:LYS:HE2	1.90	0.53
1:D:3106:MET:CE	1:D:3128:ASN:ND2	2.72	0.53
1:C:924:MET:HG3	1:C:925:SER:N	2.23	0.53
1:C:1924:GLU:OE2	1:C:1929:MET:N	2.41	0.53
1:C:2096:GLU:OE1	1:C:2096:GLU:N	2.40	0.53
1:C:2908:TYR:HB2	1:C:2916:LYS:HE2	1.90	0.53
1:C:3097:GLU:O	1:C:3101:GLU:OE1	2.25	0.53
1:C:3214:ASN:O	1:C:3220:THR:HG21	2.08	0.53
1:A:875:ALA:HB3	1:A:922:LEU:HD22	1.90	0.53
1:A:1703:LEU:HD21	1:A:1707:LEU:HB2	1.90	0.53
1:A:1924:GLU:OE2	1:A:1929:MET:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2355:ARG:O	1:A:2359:ARG:HG2	2.08	0.53
1:A:3394:VAL:HG22	1:A:3398:PHE:CZ	2.44	0.53
1:B:918:ARG:O	1:B:922:LEU:HD23	2.08	0.53
1:B:2562:ILE:HG22	1:B:2610:LEU:HD11	1.91	0.53
1:B:4037:ASN:O	1:B:4042:ARG:NH2	2.40	0.53
1:D:3214:ASN:O	1:D:3220:THR:HG21	2.08	0.53
1:C:1480:GLN:HG2	1:C:1480:GLN:O	2.09	0.53
1:C:2586:VAL:CG1	1:C:2607:LEU:HD13	2.39	0.53
1:C:3270:ILE:HG21	1:C:3334:TRP:HE3	1.70	0.53
1:C:3394:VAL:HG22	1:C:3398:PHE:CZ	2.44	0.53
1:C:3802:ILE:HD12	1:C:3886:ARG:HG3	1.89	0.53
1:A:3214:ASN:O	1:A:3220:THR:HG21	2.08	0.53
1:B:1480:GLN:O	1:B:1480:GLN:HG2	2.08	0.53
1:B:2350:ALA:O	1:B:2354:VAL:HG23	2.08	0.53
1:B:2623:LEU:O	1:B:2627:VAL:HG23	2.09	0.53
1:B:3875:MET:HE1	1:B:3954:ALA:HB2	1.91	0.53
1:D:2991:HIS:O	1:D:2994:GLU:N	2.41	0.53
1:D:3394:VAL:HG22	1:D:3398:PHE:CZ	2.44	0.53
1:D:4658:ILE:HD13	1:D:4792:LEU:HB3	1.89	0.53
1:C:812:HIS:O	1:C:815:VAL:HG12	2.08	0.53
1:C:2519:LEU:HD13	1:C:2575:ARG:HG3	1.90	0.53
1:C:2971:GLN:OE1	1:C:3049:LEU:HD13	2.09	0.53
1:C:3107:VAL:HG12	1:C:3175:LEU:HD22	1.90	0.53
1:C:3529:ASP:OD2	1:C:3595:ARG:NH2	2.41	0.53
1:A:2178:MET:CE	1:A:2228:MET:HG2	2.39	0.53
1:A:3354:LEU:HD11	1:A:3434:LEU:HD22	1.91	0.53
2:F:57:ARG:O	2:F:61:GLU:OE1	2.27	0.53
1:B:309:THR:HG22	1:B:309:THR:O	2.09	0.53
1:B:2178:MET:CE	1:B:2228:MET:HG2	2.39	0.53
1:B:2355:ARG:O	1:B:2359:ARG:HG2	2.08	0.53
1:B:2440:MET:SD	1:B:2440:MET:C	2.92	0.53
1:B:2971:GLN:OE1	1:B:3049:LEU:HD13	2.09	0.53
1:B:2988:LYS:HZ1	1:B:2990:PRO:HG3	1.73	0.53
1:B:3394:VAL:HG22	1:B:3398:PHE:CZ	2.44	0.53
1:D:309:THR:HG22	1:D:309:THR:O	2.09	0.53
1:D:2755:ILE:HG23	1:D:2809:ILE:HG22	1.91	0.53
1:D:3282:PRO:HG3	1:D:3345:ILE:HG22	1.89	0.53
1:D:4241:THR:O	1:D:4245:MET:SD	2.66	0.53
1:C:875:ALA:HB3	1:C:922:LEU:HD22	1.90	0.53
1:C:2355:ARG:O	1:C:2359:ARG:HG2	2.08	0.53
1:C:2908:TYR:HA	1:C:2911:LEU:HG	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3955:MET:HE1	1:C:4016:LEU:N	2.24	0.53
1:A:1285:GLU:OE2	1:A:1462:MET:HE1	2.09	0.53
1:A:2519:LEU:HD13	1:A:2575:ARG:HG3	1.90	0.53
1:A:2670:GLU:OE1	1:A:2670:GLU:N	2.42	0.53
1:A:3015:LEU:O	1:A:3019:SER:N	2.37	0.53
1:A:3875:MET:HE3	1:A:3953:LYS:HG3	1.89	0.53
1:A:4127:GLU:OE1	1:A:4131:ARG:NH2	2.28	0.53
1:B:2267:MET:HE1	1:B:2270:SER:O	2.08	0.53
1:B:2586:VAL:CG1	1:B:2607:LEU:HD13	2.39	0.53
1:B:3966:THR:HG22	1:B:3970:GLN:OE1	2.08	0.53
1:B:4241:THR:O	1:B:4245:MET:SD	2.66	0.53
1:D:499:THR:HG23	1:D:502:HIS:H	1.73	0.53
1:D:2622:LEU:O	1:D:2626:LEU:HD13	2.09	0.53
1:D:2724:GLU:OE1	1:D:2724:GLU:N	2.41	0.53
1:C:1610:ASN:OD1	1:C:1702:HIS:CD2	2.61	0.53
1:C:2267:MET:HE1	1:C:2270:SER:O	2.08	0.53
1:C:2877:GLN:O	1:C:2880:GLU:HB3	2.09	0.53
1:C:4152:GLU:OE1	1:C:4194:TYR:OH	2.20	0.53
1:B:1285:GLU:OE2	1:B:1462:MET:HE1	2.09	0.53
1:B:2549:ALA:HA	1:B:2552:ARG:NH1	2.23	0.53
1:B:3282:PRO:HG3	1:B:3345:ILE:HG22	1.89	0.53
1:D:1006:SER:C	1:D:1021:LEU:HD23	2.34	0.53
1:D:2475:GLN:NE2	1:D:2476:ILE:O	2.41	0.53
1:D:2971:GLN:OE1	1:D:3049:LEU:HD13	2.09	0.53
1:C:575:LEU:HD22	1:C:606:LEU:HA	1.91	0.53
1:C:1022:VAL:HG22	1:C:1026:LEU:HB2	1.91	0.53
1:A:360:ALA:O	1:A:361:ALA:HB3	2.09	0.53
1:A:783:PHE:HB2	1:A:787:VAL:HG11	1.91	0.53
1:B:1435:TYR:OH	1:B:1564:PHE:HD2	1.90	0.53
1:B:3179:LYS:O	1:B:3180:ASN:OD1	2.26	0.53
1:B:3394:VAL:HG22	1:B:3398:PHE:CE1	2.43	0.53
1:D:1480:GLN:O	1:D:1480:GLN:HG2	2.09	0.53
1:D:2586:VAL:CG1	1:D:2607:LEU:HD13	2.39	0.53
1:D:3955:MET:HE1	1:D:4016:LEU:N	2.24	0.53
1:C:4680:LYS:HB3	1:C:4686:LEU:HD22	1.90	0.53
1:C:4843:LEU:O	1:C:4847:VAL:HG13	2.09	0.53
1:A:924:MET:HG3	1:A:925:SER:N	2.23	0.53
1:A:2440:MET:SD	1:A:2440:MET:C	2.92	0.53
1:A:2443:ILE:HG23	1:A:2454:ARG:NH1	2.24	0.53
1:A:2991:HIS:O	1:A:2994:GLU:N	2.41	0.53
1:A:4241:THR:O	1:A:4245:MET:SD	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4755:GLU:O	1:A:4756:ARG:NE	2.41	0.53
1:B:125:ARG:NH2	1:B:191:VAL:O	2.32	0.53
1:B:1006:SER:C	1:B:1021:LEU:HD23	2.34	0.53
1:B:2191:PHE:HA	1:B:2198:MET:HE3	1.91	0.53
1:B:2755:ILE:HG23	1:B:2809:ILE:HG22	1.91	0.53
1:D:783:PHE:HB2	1:D:787:VAL:HG11	1.91	0.53
1:D:893:TYR:O	1:D:903:LEU:HD12	2.08	0.53
1:D:1446:SER:O	1:D:1496:TRP:NE1	2.37	0.53
1:D:2267:MET:HE1	1:D:2270:SER:O	2.08	0.53
1:D:3192:GLU:OE2	1:D:3196:ARG:NH1	2.42	0.53
1:D:4843:LEU:O	1:D:4847:VAL:HG13	2.09	0.53
1:C:369:LEU:HB2	1:C:371:VAL:HG23	1.91	0.53
1:C:783:PHE:HB2	1:C:787:VAL:HG11	1.91	0.53
1:C:2979:ALA:O	1:C:2982:SER:OG	2.22	0.53
1:C:2991:HIS:O	1:C:2994:GLU:N	2.41	0.53
1:A:369:LEU:CB	1:A:371:VAL:HG23	2.39	0.52
1:A:2623:LEU:O	1:A:2627:VAL:HG23	2.09	0.52
1:A:3192:GLU:OE2	1:A:3196:ARG:NH1	2.42	0.52
1:B:404:ILE:HG21	1:B:481:GLU:HG3	1.90	0.52
1:B:2443:ILE:HG23	1:B:2454:ARG:NH1	2.24	0.52
1:B:2908:TYR:HA	1:B:2911:LEU:HG	1.90	0.52
1:B:3354:LEU:HD11	1:B:3434:LEU:HD22	1.91	0.52
1:B:4823:LEU:CD2	1:C:4839:MET:HE3	2.39	0.52
1:D:2562:ILE:HG22	1:D:2610:LEU:HD11	1.91	0.52
1:D:2670:GLU:OE1	1:D:2670:GLU:N	2.42	0.52
1:D:3394:VAL:HG22	1:D:3398:PHE:CE1	2.43	0.52
1:D:4680:LYS:HB3	1:D:4686:LEU:HD22	1.90	0.52
1:C:2443:ILE:HG23	1:C:2454:ARG:NH1	2.24	0.52
1:C:2755:ILE:HG23	1:C:2809:ILE:HG22	1.91	0.52
1:C:3106:MET:CE	1:C:3128:ASN:ND2	2.71	0.52
1:C:4956:THR:O	1:C:4965:SER:OG	2.28	0.52
1:A:893:TYR:O	1:A:903:LEU:HD12	2.09	0.52
1:A:2347:GLU:OE2	1:A:3852:LYS:NZ	2.39	0.52
1:A:3106:MET:CE	1:A:3128:ASN:ND2	2.71	0.52
1:A:4079:ASP:OD2	1:B:4736:ARG:NH2	2.42	0.52
1:B:118:LEU:HD23	1:B:119:SER:N	2.24	0.52
1:B:575:LEU:HD22	1:B:606:LEU:HA	1.91	0.52
1:B:783:PHE:HB2	1:B:787:VAL:HG11	1.91	0.52
1:B:2697:ARG:HA	1:B:2700:MET:SD	2.50	0.52
1:B:2877:GLN:O	1:B:2880:GLU:HB3	2.09	0.52
1:B:3192:GLU:OE2	1:B:3196:ARG:NH1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3214:ASN:O	1:B:3220:THR:HG21	2.08	0.52
1:D:404:ILE:HG21	1:D:481:GLU:HG3	1.90	0.52
1:D:1022:VAL:HG22	1:D:1026:LEU:HB2	1.91	0.52
1:D:2178:MET:CE	1:D:2228:MET:HG2	2.39	0.52
1:D:3354:LEU:HD11	1:D:3434:LEU:HD22	1.91	0.52
1:D:3802:ILE:HD12	1:D:3886:ARG:HG3	1.89	0.52
1:C:1285:GLU:OE2	1:C:1462:MET:HE1	2.09	0.52
1:C:2191:PHE:HA	1:C:2198:MET:HE3	1.91	0.52
1:C:2697:ARG:HA	1:C:2700:MET:SD	2.50	0.52
1:C:4755:GLU:O	1:C:4756:ARG:NE	2.41	0.52
1:A:575:LEU:O	1:A:578:ILE:HG22	2.09	0.52
1:A:2191:PHE:HA	1:A:2198:MET:HE3	1.91	0.52
1:A:3875:MET:HE1	1:A:3954:ALA:HB2	1.91	0.52
1:B:28:VAL:O	1:B:31:GLU:N	2.29	0.52
1:B:1110:ARG:HB3	1:B:1112:ASP:OD1	2.07	0.52
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	1.92	0.52
1:D:875:ALA:HB3	1:D:922:LEU:HD22	1.90	0.52
1:D:2443:ILE:HG23	1:D:2454:ARG:NH1	2.24	0.52
1:C:2562:ILE:HG22	1:C:2610:LEU:HD11	1.91	0.52
1:A:300:VAL:HG12	1:A:301:VAL:N	2.24	0.52
1:A:650:VAL:O	1:A:777:PHE:N	2.38	0.52
1:A:2586:VAL:CG1	1:A:2607:LEU:HD13	2.39	0.52
1:A:2971:GLN:OE1	1:A:3049:LEU:HD13	2.09	0.52
2:E:57:ARG:O	2:E:61:GLU:OE1	2.27	0.52
1:D:369:LEU:HB2	1:D:371:VAL:HG23	1.91	0.52
1:D:1727:ARG:NH2	1:D:1773:PRO:O	2.43	0.52
1:D:2347:GLU:OE2	1:D:3852:LYS:NZ	2.39	0.52
1:D:2579:VAL:O	1:D:2582:MET:HG3	2.10	0.52
1:D:2908:TYR:HA	1:D:2911:LEU:HG	1.90	0.52
1:C:1006:SER:C	1:C:1021:LEU:HD23	2.34	0.52
1:C:2350:ALA:O	1:C:2354:VAL:HG23	2.08	0.52
1:C:3875:MET:HE1	1:C:3954:ALA:HB2	1.91	0.52
1:A:970:LEU:O	1:A:972:LEU:HD22	2.09	0.52
1:A:1006:SER:C	1:A:1021:LEU:HD23	2.34	0.52
1:A:2579:VAL:O	1:A:2582:MET:HG3	2.10	0.52
1:A:2622:LEU:O	1:A:2626:LEU:HD13	2.09	0.52
1:A:3192:GLU:O	1:A:3196:ARG:HG2	2.10	0.52
1:A:3702:VAL:HG13	1:A:3778:MET:HE3	1.92	0.52
1:A:3955:MET:HE1	1:A:4016:LEU:N	2.24	0.52
1:A:4966:ASP:O	1:A:4970:THR:HG23	2.10	0.52
1:B:369:LEU:HB2	1:B:371:VAL:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:575:LEU:O	1:B:578:ILE:HG22	2.09	0.52
1:B:1573:MET:CE	1:B:1577:ALA:CB	2.88	0.52
1:B:1610:ASN:OD1	1:B:1702:HIS:CD2	2.61	0.52
1:B:2888:ARG:NH2	1:B:2892:GLN:OE1	2.43	0.52
1:B:3231:GLY:O	1:B:3232:LEU:HD12	2.09	0.52
1:D:360:ALA:O	1:D:361:ALA:HB3	2.09	0.52
1:D:2623:LEU:O	1:D:2627:VAL:HG23	2.09	0.52
1:D:2697:ARG:HA	1:D:2700:MET:SD	2.50	0.52
1:D:3052:HIS:NE2	1:D:3128:ASN:CG	2.65	0.52
1:D:3504:SER:O	1:D:3507:THR:OG1	2.26	0.52
1:D:3850:GLN:OE1	1:D:3873:LYS:NZ	2.29	0.52
1:D:3969:ILE:HG21	1:D:3980:LEU:HD12	1.91	0.52
1:C:300:VAL:HG12	1:C:301:VAL:N	2.24	0.52
1:C:3699:HIS:O	1:C:3703:LEU:HD13	2.10	0.52
1:C:3969:ILE:HG21	1:C:3980:LEU:HD12	1.91	0.52
1:C:4565:LEU:O	1:C:4569:LEU:HD13	2.09	0.52
1:A:546:TRP:O	1:A:550:LYS:HG2	2.10	0.52
1:A:1936:LYS:HB3	1:A:2105:TRP:CZ3	2.45	0.52
1:A:2697:ARG:HA	1:A:2700:MET:SD	2.50	0.52
1:A:4680:LYS:HB3	1:A:4686:LEU:HD22	1.90	0.52
2:G:84:ALA:HA	2:G:94:HIS:ND1	2.25	0.52
1:B:1236:THR:OG1	1:B:1608:MET:SD	2.54	0.52
1:B:1527:MET:HE3	1:B:1540:PHE:HB2	1.92	0.52
1:B:2519:LEU:HD13	1:B:2575:ARG:HG3	1.90	0.52
1:B:3955:MET:HE1	1:B:4016:LEU:N	2.24	0.52
1:B:3969:ILE:HG21	1:B:3980:LEU:HD12	1.91	0.52
1:B:4565:LEU:O	1:B:4569:LEU:HD13	2.09	0.52
1:B:4755:GLU:O	1:B:4756:ARG:NE	2.41	0.52
1:B:4852:THR:HG23	1:B:4882:CYS:SG	2.50	0.52
1:D:1936:LYS:HB3	1:D:2105:TRP:CZ3	2.45	0.52
1:D:2146:PRO:O	1:D:2149:VAL:HG22	2.10	0.52
1:D:2519:LEU:HD13	1:D:2575:ARG:HG3	1.90	0.52
1:D:2877:GLN:O	1:D:2880:GLU:HB3	2.09	0.52
1:D:2961:GLN:HA	1:D:2964:LEU:HD12	1.92	0.52
1:D:3231:GLY:O	1:D:3232:LEU:HD12	2.10	0.52
1:C:575:LEU:O	1:C:578:ILE:HG22	2.09	0.52
1:C:831:ARG:HH21	1:C:1199:VAL:HG21	1.73	0.52
1:C:2121:PHE:O	1:C:3725:TYR:OH	2.27	0.52
1:C:2622:LEU:O	1:C:2626:LEU:HD13	2.09	0.52
1:C:3137:LEU:HD22	1:C:3189:ALA:HB1	1.91	0.52
1:C:3231:GLY:O	1:C:3232:LEU:HD12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3412:LEU:HD11	1:C:3434:LEU:HD21	1.92	0.52
2:G:57:ARG:O	2:G:61:GLU:OE1	2.27	0.52
1:B:451:TYR:CE2	1:B:474:ARG:HD2	2.45	0.52
1:B:970:LEU:O	1:B:972:LEU:HD22	2.10	0.52
1:B:1936:LYS:HB3	1:B:2105:TRP:CZ3	2.45	0.52
1:B:3106:MET:CE	1:B:3128:ASN:ND2	2.72	0.52
1:D:575:LEU:O	1:D:578:ILE:HG22	2.09	0.52
1:D:2215:LEU:HD23	1:D:2223:ILE:HD11	1.92	0.52
1:D:2440:MET:SD	1:D:2440:MET:C	2.92	0.52
1:D:3137:LEU:HD22	1:D:3189:ALA:HB1	1.91	0.52
1:C:369:LEU:CB	1:C:371:VAL:HG23	2.39	0.52
1:C:2961:GLN:HA	1:C:2964:LEU:HD12	1.92	0.52
1:C:3354:LEU:HD11	1:C:3434:LEU:HD22	1.91	0.52
1:C:5014:TYR:CE2	6:C:5304:A1BD2:C1	2.93	0.52
1:A:404:ILE:HG21	1:A:481:GLU:HG3	1.90	0.52
1:A:451:TYR:CE2	1:A:474:ARG:HD2	2.45	0.52
1:A:1573:MET:CE	1:A:1577:ALA:CB	2.88	0.52
1:A:1727:ARG:NH2	1:A:1773:PRO:O	2.43	0.52
1:A:2755:ILE:HG23	1:A:2809:ILE:HG22	1.91	0.52
2:H:57:ARG:O	2:H:61:GLU:OE1	2.27	0.52
1:B:300:VAL:HG12	1:B:301:VAL:N	2.24	0.52
1:B:3702:VAL:HG13	1:B:3778:MET:HE3	1.92	0.52
1:B:4843:LEU:O	1:B:4847:VAL:HG13	2.09	0.52
1:D:3192:GLU:O	1:D:3196:ARG:HG2	2.10	0.52
1:D:4966:ASP:O	1:D:4970:THR:HG23	2.10	0.52
1:D:5014:TYR:CE2	6:D:5304:A1BD2:C1	2.93	0.52
1:C:118:LEU:HD23	1:C:119:SER:N	2.24	0.52
1:C:1527:MET:HE3	1:C:1540:PHE:HB2	1.92	0.52
1:C:1936:LYS:HB3	1:C:2105:TRP:CZ3	2.45	0.52
1:C:2146:PRO:O	1:C:2149:VAL:HG22	2.10	0.52
1:C:2440:MET:SD	1:C:2440:MET:C	2.92	0.52
1:C:3192:GLU:O	1:C:3196:ARG:HG2	2.10	0.52
1:C:3249:LEU:HD21	1:C:3273:THR:CG2	2.40	0.52
1:A:309:THR:O	1:A:309:THR:HG22	2.09	0.52
1:A:874:LEU:CD2	1:A:1046:LEU:HD21	2.38	0.52
1:A:1480:GLN:O	1:A:1480:GLN:HG2	2.09	0.52
1:A:2961:GLN:HA	1:A:2964:LEU:HD12	1.92	0.52
1:A:3231:GLY:O	1:A:3232:LEU:HD12	2.10	0.52
1:A:3249:LEU:HD11	1:A:3273:THR:HG21	1.92	0.52
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.10	0.52
1:A:3412:LEU:HD11	1:A:3434:LEU:HD21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3699:HIS:O	1:A:3703:LEU:HD13	2.10	0.52
1:B:360:ALA:O	1:B:361:ALA:HB3	2.09	0.52
1:B:369:LEU:CB	1:B:371:VAL:HG23	2.39	0.52
1:B:3249:LEU:HD21	1:B:3273:THR:CG2	2.40	0.52
1:D:2674:LEU:HD23	1:D:2677:LYS:HZ1	1.74	0.52
1:D:3412:LEU:HD11	1:D:3434:LEU:HD21	1.92	0.52
1:D:3500:GLY:O	1:D:3504:SER:OG	2.25	0.52
1:C:650:VAL:O	1:C:777:PHE:N	2.38	0.52
1:C:1727:ARG:NH2	1:C:1773:PRO:O	2.43	0.52
1:C:1997:GLU:HG3	1:C:2008:MET:HE2	1.91	0.52
1:C:3192:GLU:OE2	1:C:3196:ARG:NH1	2.42	0.52
1:A:2012:PHE:HZ	1:A:2031:LEU:HD23	1.75	0.52
1:A:2215:LEU:HD23	1:A:2223:ILE:HD11	1.92	0.52
2:E:49:MET:HB3	2:E:52:LYS:CE	2.40	0.52
1:B:1170:MET:HE1	1:B:1176:GLU:OE2	2.10	0.52
1:B:3201:MET:HE2	1:B:3203:VAL:HG22	1.92	0.52
1:B:3266:MET:HG2	1:B:3266:MET:O	2.10	0.52
1:B:3699:HIS:O	1:B:3703:LEU:HD13	2.10	0.52
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.28	0.52
1:D:369:LEU:CB	1:D:371:VAL:HG23	2.39	0.52
1:D:546:TRP:O	1:D:550:LYS:HG2	2.10	0.52
1:D:972:LEU:CD1	1:D:1044:ARG:HG2	2.40	0.52
1:D:1285:GLU:OE2	1:D:1462:MET:HE1	2.09	0.52
1:D:2431:ASP:O	1:D:2435:ARG:HG2	2.11	0.52
1:D:3230:LEU:CD1	1:D:3232:LEU:HD13	2.40	0.52
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.10	0.52
1:D:3699:HIS:O	1:D:3703:LEU:HD13	2.10	0.52
1:D:3875:MET:HE1	1:D:3954:ALA:HB2	1.91	0.52
1:D:4545:GLU:OE2	1:D:4548:ARG:NH2	2.33	0.52
1:C:1771:LEU:HB3	1:C:2153:MET:CE	2.40	0.52
1:C:2215:LEU:HD23	1:C:2223:ILE:HD11	1.92	0.52
1:A:118:LEU:HD23	1:A:119:SER:N	2.25	0.51
1:A:2178:MET:HE2	1:A:2228:MET:HG2	1.92	0.51
1:A:2210:VAL:O	1:A:2214:VAL:HG23	2.10	0.51
1:A:2431:ASP:O	1:A:2435:ARG:HG2	2.11	0.51
1:A:2877:GLN:O	1:A:2880:GLU:HB3	2.09	0.51
1:A:3266:MET:O	1:A:3266:MET:HG2	2.10	0.51
1:A:3524:MET:HG2	1:A:3595:ARG:HD2	1.93	0.51
1:A:4222:VAL:HG11	1:A:4950:VAL:HA	1.92	0.51
1:A:4565:LEU:O	1:A:4569:LEU:HD13	2.09	0.51
1:A:4956:THR:O	1:A:4965:SER:OG	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:242:ARG:HD3	1:B:287:THR:HG22	1.92	0.51
1:B:2178:MET:HE2	1:B:2228:MET:HG2	1.93	0.51
1:B:2670:GLU:OE1	1:B:2670:GLU:N	2.42	0.51
1:D:451:TYR:CE2	1:D:474:ARG:HD2	2.45	0.51
1:D:509:GLU:O	1:D:513:GLU:OE1	2.29	0.51
1:D:927:GLU:O	1:D:931:THR:HG23	2.11	0.51
1:D:4222:VAL:HG11	1:D:4950:VAL:HA	1.92	0.51
1:D:4565:LEU:O	1:D:4569:LEU:HD13	2.09	0.51
1:D:4852:THR:HG23	1:D:4882:CYS:SG	2.50	0.51
1:C:4157:ASP:OD1	1:C:4160:LEU:N	2.38	0.51
1:C:4852:THR:HG23	1:C:4882:CYS:SG	2.50	0.51
1:A:1022:VAL:HG22	1:A:1026:LEU:HB2	1.91	0.51
1:A:1771:LEU:HB3	1:A:2153:MET:CE	2.40	0.51
1:A:2146:PRO:O	1:A:2149:VAL:HG22	2.10	0.51
1:B:638:ILE:HD13	1:B:702:TRP:O	2.11	0.51
1:B:1727:ARG:NH2	1:B:1773:PRO:O	2.43	0.51
1:B:3137:LEU:HD22	1:B:3189:ALA:HB1	1.91	0.51
1:B:3175:LEU:O	1:B:3178:THR:HG22	2.11	0.51
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.10	0.51
1:B:3571:TRP:CE2	1:C:1228:ILE:HD11	2.44	0.51
1:D:575:LEU:HD22	1:D:606:LEU:HA	1.91	0.51
1:D:2821:TRP:CH2	1:D:2877:GLN:OE1	2.63	0.51
1:D:4686:LEU:O	1:D:4691:GLN:N	2.33	0.51
1:D:4976:GLU:O	1:D:4980:LEU:HD23	2.11	0.51
1:C:451:TYR:CE2	1:C:474:ARG:HD2	2.45	0.51
1:C:1105:ALA:O	1:C:1189:LEU:N	2.41	0.51
1:C:1170:MET:HE1	1:C:1176:GLU:OE2	2.10	0.51
1:C:1573:MET:CE	1:C:1577:ALA:CB	2.88	0.51
1:C:2238:TYR:O	1:C:2239:PHE:C	2.53	0.51
1:C:3175:LEU:O	1:C:3178:THR:HG22	2.11	0.51
1:C:4655:PHE:HA	1:C:4796:MET:HE1	1.92	0.51
1:A:575:LEU:HD22	1:A:606:LEU:HA	1.91	0.51
1:A:927:GLU:O	1:A:931:THR:HG23	2.11	0.51
1:A:972:LEU:CD1	1:A:1044:ARG:HG2	2.40	0.51
1:A:1436:SER:OG	1:A:1565:GLU:HB2	2.11	0.51
1:A:1527:MET:HE3	1:A:1540:PHE:HB2	1.92	0.51
1:A:3299:GLY:O	1:A:3300:ALA:HB2	2.10	0.51
1:B:2431:ASP:O	1:B:2435:ARG:HG2	2.11	0.51
1:B:2821:TRP:CH2	1:B:2877:GLN:OE1	2.63	0.51
1:B:3405:LEU:HD22	1:B:3409:TYR:CE2	2.46	0.51
1:B:4655:PHE:HA	1:B:4796:MET:HE1	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:300:VAL:HG12	1:D:301:VAL:N	2.25	0.51
1:D:970:LEU:O	1:D:972:LEU:HD22	2.10	0.51
1:D:2012:PHE:HZ	1:D:2031:LEU:HD23	1.75	0.51
1:D:2238:TYR:O	1:D:2239:PHE:C	2.53	0.51
1:D:2355:ARG:O	1:D:2359:ARG:HG2	2.08	0.51
1:C:2178:MET:CE	1:C:2228:MET:HG2	2.39	0.51
1:C:3500:GLY:O	1:C:3504:SER:OG	2.25	0.51
1:A:1170:MET:HE1	1:A:1176:GLU:OE2	2.10	0.51
1:A:1997:GLU:HG3	1:A:2008:MET:HE2	1.91	0.51
1:A:3230:LEU:CD1	1:A:3232:LEU:HD13	2.41	0.51
1:A:3969:ILE:HG21	1:A:3980:LEU:HD12	1.91	0.51
1:A:4843:LEU:O	1:A:4847:VAL:HG13	2.09	0.51
1:A:4976:GLU:O	1:A:4980:LEU:HD23	2.11	0.51
2:H:84:ALA:HA	2:H:94:HIS:ND1	2.25	0.51
1:B:1245:PHE:CD2	1:B:1600:LEU:HD13	2.46	0.51
1:B:2146:PRO:O	1:B:2149:VAL:HG22	2.10	0.51
1:B:3412:LEU:HD11	1:B:3434:LEU:HD21	1.92	0.51
1:D:118:LEU:HD23	1:D:119:SER:N	2.24	0.51
1:D:1527:MET:HE3	1:D:1540:PHE:HB2	1.92	0.51
1:D:2178:MET:HE2	1:D:2228:MET:HG2	1.92	0.51
1:D:3702:VAL:HG13	1:D:3778:MET:HE3	1.92	0.51
1:C:309:THR:O	1:C:309:THR:HG22	2.09	0.51
1:C:2579:VAL:O	1:C:2582:MET:HG3	2.10	0.51
1:A:28:VAL:C	1:A:29:LEU:HD23	2.36	0.51
1:A:1446:SER:O	1:A:1496:TRP:NE1	2.37	0.51
1:A:2821:TRP:CH2	1:A:2877:GLN:OE1	2.63	0.51
1:A:4545:GLU:OE2	1:A:4548:ARG:NH2	2.33	0.51
2:G:49:MET:HB3	2:G:52:LYS:CE	2.40	0.51
1:B:3432:GLU:HB3	1:B:3524:MET:HE1	1.93	0.51
1:B:3524:MET:HG2	1:B:3595:ARG:HD2	1.93	0.51
1:D:1110:ARG:CB	1:D:1112:ASP:OD1	2.59	0.51
1:D:1573:MET:CE	1:D:1577:ALA:CB	2.88	0.51
1:D:2210:VAL:O	1:D:2214:VAL:HG23	2.10	0.51
1:D:3266:MET:O	1:D:3266:MET:HG2	2.10	0.51
1:D:3930:ILE:CG2	1:D:3995:VAL:HG11	2.41	0.51
1:C:970:LEU:O	1:C:972:LEU:HD22	2.09	0.51
1:C:1110:ARG:CB	1:C:1112:ASP:OD1	2.59	0.51
1:C:1245:PHE:CD2	1:C:1600:LEU:HD13	2.46	0.51
1:C:1436:SER:OG	1:C:1565:GLU:HB2	2.11	0.51
1:C:2431:ASP:O	1:C:2435:ARG:HG2	2.11	0.51
1:C:3201:MET:HE2	1:C:3203:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3226:GLU:O	1:C:3227:ARG:HG2	2.11	0.51
1:C:3930:ILE:CG2	1:C:3995:VAL:HG11	2.41	0.51
1:C:4976:GLU:O	1:C:4980:LEU:HD23	2.11	0.51
1:A:242:ARG:HD3	1:A:287:THR:HG22	1.92	0.51
1:A:369:LEU:HB2	1:A:371:VAL:HG23	1.91	0.51
1:A:3930:ILE:CG2	1:A:3995:VAL:HG11	2.41	0.51
1:A:4944:ARG:NE	1:B:4938:ASP:OD2	2.41	0.51
2:H:49:MET:HG3	2:H:52:LYS:HZ1	1.75	0.51
2:H:49:MET:HB3	2:H:52:LYS:CE	2.40	0.51
1:B:2579:VAL:O	1:B:2582:MET:HG3	2.10	0.51
1:B:3321:ARG:O	1:B:3325:ASN:ND2	2.44	0.51
1:D:1170:MET:HE1	1:D:1176:GLU:OE2	2.10	0.51
1:D:1436:SER:OG	1:D:1565:GLU:HB2	2.11	0.51
1:D:3525:CYS:SG	1:D:3599:VAL:HG21	2.50	0.51
1:C:28:VAL:C	1:C:29:LEU:HD23	2.36	0.51
1:C:360:ALA:O	1:C:361:ALA:HB3	2.09	0.51
1:C:972:LEU:CD1	1:C:1044:ARG:HG2	2.41	0.51
1:C:2210:VAL:O	1:C:2214:VAL:HG23	2.10	0.51
1:C:2767:ALA:HA	1:C:2791:LEU:HD11	1.93	0.51
1:C:3052:HIS:NE2	1:C:3128:ASN:CG	2.65	0.51
1:A:1230:MET:HE1	1:A:1234:VAL:HG22	1.93	0.51
1:A:3175:LEU:O	1:A:3178:THR:HG22	2.11	0.51
1:A:3957:VAL:O	1:A:3961:VAL:HG23	2.11	0.51
1:A:4580:TYR:O	1:B:4879:MET:HG2	2.10	0.51
2:F:49:MET:HB3	2:F:52:LYS:CE	2.40	0.51
1:B:509:GLU:O	1:B:513:GLU:OE1	2.29	0.51
1:B:2667:THR:HG1	1:B:2671:GLU:CD	2.10	0.51
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.10	0.51
1:B:3299:GLY:O	1:B:3300:ALA:HB2	2.11	0.51
1:B:4976:GLU:O	1:B:4980:LEU:HD23	2.11	0.51
1:B:5014:TYR:CE2	6:B:5304:A1BD2:C1	2.93	0.51
1:D:1771:LEU:HB3	1:D:2153:MET:CE	2.40	0.51
1:D:4152:GLU:OE1	1:D:4194:TYR:OH	2.20	0.51
1:C:242:ARG:HD3	1:C:287:THR:HG22	1.92	0.51
1:C:927:GLU:O	1:C:931:THR:HG23	2.11	0.51
1:C:1236:THR:OG1	1:C:1608:MET:SD	2.54	0.51
1:C:3432:GLU:HB3	1:C:3524:MET:CE	2.41	0.51
1:A:3432:GLU:HB3	1:A:3524:MET:HE1	1.93	0.51
1:A:3525:CYS:SG	1:A:3599:VAL:HG21	2.50	0.51
1:A:3734:HIS:C	1:A:3735:LEU:HD23	2.36	0.51
1:B:1022:VAL:HG22	1:B:1026:LEU:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1110:ARG:CB	1:B:1112:ASP:OD1	2.59	0.51
1:B:2199:ARG:NH2	1:B:2246:ASN:OD1	2.44	0.51
1:B:2238:TYR:O	1:B:2239:PHE:C	2.53	0.51
1:B:2767:ALA:HA	1:B:2791:LEU:HD11	1.93	0.51
1:B:3230:LEU:CD1	1:B:3232:LEU:HD13	2.40	0.51
1:B:3734:HIS:C	1:B:3735:LEU:HD23	2.36	0.51
1:B:3930:ILE:CG2	1:B:3995:VAL:HG11	2.41	0.51
1:D:887:ILE:HG23	1:D:959:TYR:CD2	2.46	0.51
1:D:2523:ASP:OD1	1:D:2524:VAL:N	2.44	0.51
1:D:3270:ILE:HG21	1:D:3334:TRP:HE3	1.70	0.51
1:D:4655:PHE:HA	1:D:4796:MET:HE1	1.92	0.51
1:C:504:ALA:HB2	1:C:512:ALA:CB	2.40	0.51
1:C:509:GLU:O	1:C:513:GLU:OE1	2.29	0.51
1:C:2178:MET:HE2	1:C:2228:MET:HG2	1.92	0.51
1:C:3525:CYS:SG	1:C:3599:VAL:HG21	2.50	0.51
1:C:3734:HIS:C	1:C:3735:LEU:HD23	2.36	0.51
1:C:4966:ASP:O	1:C:4970:THR:HG23	2.10	0.51
1:A:638:ILE:HD13	1:A:702:TRP:O	2.11	0.51
1:A:3321:ARG:O	1:A:3325:ASN:ND2	2.44	0.51
1:A:4152:GLU:OE1	1:A:4194:TYR:OH	2.20	0.51
1:D:242:ARG:HD3	1:D:287:THR:HG22	1.92	0.51
1:D:2199:ARG:NH2	1:D:2246:ASN:OD1	2.44	0.51
1:D:3226:GLU:O	1:D:3227:ARG:HG2	2.11	0.51
1:C:1446:SER:O	1:C:1496:TRP:NE1	2.37	0.51
1:C:2821:TRP:CH2	1:C:2877:GLN:OE1	2.63	0.51
1:C:3266:MET:O	1:C:3266:MET:HG2	2.10	0.51
1:C:4157:ASP:OD2	1:C:4159:ARG:NH2	2.40	0.51
1:A:1245:PHE:CD2	1:A:1600:LEU:HD13	2.46	0.51
1:A:2888:ARG:NH2	1:A:2892:GLN:OE1	2.43	0.51
1:A:3015:LEU:O	1:A:3019:SER:OG	2.18	0.51
1:A:3405:LEU:HD22	1:A:3409:TYR:CE2	2.46	0.51
1:A:4852:THR:HG23	1:A:4882:CYS:SG	2.50	0.51
1:A:5014:TYR:CE2	6:A:5304:A1BD2:C1	2.93	0.51
2:E:57:ARG:O	2:E:58:GLY:C	2.54	0.51
2:F:57:ARG:O	2:F:58:GLY:C	2.54	0.51
2:F:84:ALA:HA	2:F:94:HIS:ND1	2.25	0.51
1:B:504:ALA:HB2	1:B:512:ALA:CB	2.41	0.51
1:B:546:TRP:O	1:B:550:LYS:HG2	2.10	0.51
1:B:1997:GLU:HG3	1:B:2008:MET:HE2	1.91	0.51
1:B:2384:ILE:HG22	1:B:2388:GLU:OE2	2.11	0.51
1:B:3270:ILE:HG21	1:B:3334:TRP:HE3	1.70	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4966:ASP:O	1:B:4970:THR:HG23	2.10	0.51
1:D:3137:LEU:HB3	1:D:3138:PRO:HD3	1.93	0.51
1:D:3432:GLU:HB3	1:D:3524:MET:CE	2.41	0.51
1:D:3432:GLU:HB3	1:D:3524:MET:HE1	1.93	0.51
1:C:546:TRP:O	1:C:550:LYS:HG2	2.10	0.51
1:C:1461:ASP:OD2	1:C:1468:LYS:NZ	2.39	0.51
1:C:3160:ASP:OD2	1:C:3161:VAL:N	2.44	0.51
1:C:3249:LEU:HD11	1:C:3273:THR:HG21	1.92	0.51
1:C:3546:ASP:O	1:C:3550:ARG:NE	2.35	0.51
1:B:1771:LEU:HB3	1:B:2153:MET:CE	2.40	0.50
1:B:2210:VAL:O	1:B:2214:VAL:HG23	2.10	0.50
1:B:2739:PRO:HG3	1:B:2885:THR:HA	1.94	0.50
1:B:2806:ARG:O	1:B:2810:LYS:N	2.32	0.50
1:B:3427:PRO:CD	1:B:3579:LEU:HD21	2.41	0.50
1:B:3957:VAL:O	1:B:3961:VAL:HG23	2.11	0.50
1:B:4956:THR:O	1:B:4965:SER:OG	2.28	0.50
1:D:28:VAL:C	1:D:29:LEU:HD23	2.36	0.50
1:D:792:LEU:HD23	1:D:799:GLU:O	2.11	0.50
1:D:2767:ALA:HA	1:D:2791:LEU:HD11	1.93	0.50
1:D:3249:LEU:HD11	1:D:3273:THR:HG21	1.92	0.50
1:D:3249:LEU:HD21	1:D:3273:THR:CG2	2.40	0.50
1:C:2012:PHE:HZ	1:C:2031:LEU:HD23	1.75	0.50
1:C:4222:VAL:HG11	1:C:4950:VAL:HA	1.92	0.50
1:A:2739:PRO:HG3	1:A:2885:THR:HA	1.94	0.50
1:A:3201:MET:HE2	1:A:3203:VAL:HG22	1.92	0.50
1:A:4750:ILE:HA	1:A:4753:HIS:CD2	2.47	0.50
2:H:37:ASP:OD1	2:H:42:ARG:NH1	2.43	0.50
1:B:28:VAL:C	1:B:29:LEU:HD23	2.36	0.50
1:B:2725:LYS:HD2	1:B:2736:ASP:OD1	2.11	0.50
1:B:2973:PHE:HA	1:B:2976:HIS:CD2	2.47	0.50
1:B:4205:TRP:CE3	1:B:4989:MET:HE2	2.46	0.50
1:D:1724:CYS:SG	1:D:1851:MET:HE2	2.52	0.50
1:D:1997:GLU:HG3	1:D:2008:MET:HE2	1.91	0.50
1:D:2381:GLU:HB3	1:D:2385:ARG:NH1	2.26	0.50
1:D:2764:GLU:HB3	1:D:2857:PRO:HB3	1.94	0.50
1:D:4157:ASP:N	1:D:4161:ARG:NH1	2.59	0.50
1:D:4750:ILE:HA	1:D:4753:HIS:CD2	2.47	0.50
1:C:1724:CYS:SG	1:C:1851:MET:HE2	2.52	0.50
1:C:2957:PHE:CD1	1:C:3038:MET:HE1	2.47	0.50
1:C:3524:MET:HG2	1:C:3595:ARG:HD2	1.92	0.50
1:C:3702:VAL:HG13	1:C:3778:MET:HE3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3850:GLN:OE1	1:C:3873:LYS:NZ	2.29	0.50
1:C:4241:THR:C	1:C:4245:MET:SD	2.94	0.50
1:C:4985:LEU:HD12	1:C:4986:ALA:N	2.27	0.50
1:A:553:ARG:NE	1:A:555:GLU:OE2	2.44	0.50
1:A:2495:VAL:HG22	1:A:2498:HIS:ND1	2.27	0.50
1:A:2523:ASP:OD1	1:A:2524:VAL:N	2.44	0.50
1:A:2764:GLU:HB3	1:A:2857:PRO:HB3	1.94	0.50
1:A:4241:THR:C	1:A:4245:MET:SD	2.95	0.50
1:B:2774:ASN:ND2	1:C:1506:GLN:O	2.41	0.50
1:B:3226:GLU:O	1:B:3227:ARG:HG2	2.11	0.50
1:B:3249:LEU:HD11	1:B:3273:THR:HG21	1.92	0.50
1:B:3432:GLU:HB3	1:B:3524:MET:CE	2.41	0.50
1:B:4241:THR:C	1:B:4245:MET:SD	2.94	0.50
1:D:1862:ILE:HA	1:D:1865:MET:SD	2.52	0.50
1:D:2716:ASP:OD1	1:D:2717:ALA:N	2.45	0.50
1:D:3175:LEU:O	1:D:3178:THR:HG22	2.11	0.50
1:D:3299:GLY:O	1:D:3300:ALA:HB2	2.11	0.50
1:D:4205:TRP:CE3	1:D:4989:MET:HE2	2.46	0.50
1:C:1230:MET:HE1	1:C:1234:VAL:HG22	1.93	0.50
1:C:1862:ILE:HA	1:C:1865:MET:SD	2.52	0.50
1:C:2725:LYS:HD2	1:C:2736:ASP:OD1	2.11	0.50
1:C:3321:ARG:O	1:C:3325:ASN:ND2	2.44	0.50
1:C:3405:LEU:HD22	1:C:3409:TYR:CE2	2.46	0.50
1:C:3427:PRO:CD	1:C:3579:LEU:HD21	2.41	0.50
1:A:1110:ARG:CB	1:A:1112:ASP:OD1	2.59	0.50
1:A:2238:TYR:O	1:A:2239:PHE:C	2.53	0.50
1:A:2979:ALA:O	1:A:2982:SER:OG	2.22	0.50
1:A:3137:LEU:HD22	1:A:3189:ALA:HB1	1.91	0.50
2:E:84:ALA:HA	2:E:94:HIS:ND1	2.25	0.50
2:E:102:GLU:OE2	2:E:104:LEU:HG	2.12	0.50
1:B:927:GLU:O	1:B:931:THR:HG23	2.11	0.50
1:B:3137:LEU:HB3	1:B:3138:PRO:HD3	1.93	0.50
1:B:3160:ASP:OD2	1:B:3161:VAL:N	2.44	0.50
1:B:3525:CYS:SG	1:B:3599:VAL:HG21	2.50	0.50
1:B:3850:GLN:OE1	1:B:3873:LYS:NZ	2.29	0.50
1:B:4985:LEU:HD12	1:B:4986:ALA:N	2.27	0.50
1:D:1230:MET:HE1	1:D:1234:VAL:HG22	1.93	0.50
1:D:2888:ARG:NH2	1:D:2892:GLN:OE1	2.43	0.50
1:D:3321:ARG:O	1:D:3325:ASN:ND2	2.44	0.50
1:D:3716:LEU:HD11	1:D:3782:MET:HE1	1.93	0.50
1:D:4885:PHE:HE2	1:D:4897:ILE:HD11	1.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3696:ASP:OD2	1:C:3773:ARG:NH1	2.45	0.50
1:A:632:LEU:O	1:A:634:GLN:NE2	2.45	0.50
1:A:792:LEU:HD23	1:A:799:GLU:O	2.11	0.50
1:A:2742:THR:CG2	1:A:2814:LYS:HB3	2.41	0.50
1:A:2758:PHE:CE2	1:A:2926:LEU:HD13	2.47	0.50
1:A:3160:ASP:OD2	1:A:3161:VAL:N	2.44	0.50
1:A:4205:TRP:CE3	1:A:4989:MET:HE2	2.46	0.50
1:B:672:VAL:O	1:B:680:THR:OG1	2.24	0.50
1:B:792:LEU:HD23	1:B:799:GLU:O	2.11	0.50
1:B:1446:SER:O	1:B:1496:TRP:NE1	2.37	0.50
1:B:1453:VAL:HG12	1:B:1492:CYS:HB2	1.94	0.50
1:B:1862:ILE:HA	1:B:1865:MET:SD	2.52	0.50
1:B:3052:HIS:NE2	1:B:3128:ASN:CG	2.65	0.50
1:D:1105:ALA:O	1:D:1189:LEU:N	2.41	0.50
1:D:1240:LYS:O	1:D:1603:VAL:HA	2.11	0.50
1:D:3524:MET:HG2	1:D:3595:ARG:HD2	1.93	0.50
1:C:1453:VAL:HG12	1:C:1492:CYS:HB2	1.94	0.50
1:C:2381:GLU:HB3	1:C:2385:ARG:NH1	2.26	0.50
1:C:2495:VAL:HG22	1:C:2498:HIS:ND1	2.27	0.50
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.10	0.50
1:A:1240:LYS:O	1:A:1603:VAL:HA	2.11	0.50
1:A:1506:GLN:O	1:D:2774:ASN:ND2	2.40	0.50
1:A:1724:CYS:SG	1:A:1851:MET:HE2	2.52	0.50
1:A:2475:GLN:OE1	1:A:2488:PRO:HG3	2.12	0.50
1:A:2642:LYS:HB2	1:A:2698:MET:HE1	1.93	0.50
1:A:2674:LEU:HA	1:A:2677:LYS:CE	2.41	0.50
1:A:3427:PRO:CD	1:A:3579:LEU:HD21	2.41	0.50
1:A:3531:ASP:O	1:A:3535:LEU:HG	2.12	0.50
2:G:37:ASP:OD1	2:G:42:ARG:NH1	2.43	0.50
1:B:368:ARG:NH2	1:B:2308:GLN:HB2	2.27	0.50
1:B:776:LEU:HD21	1:B:848:HIS:HA	1.94	0.50
1:B:1240:LYS:O	1:B:1603:VAL:HA	2.11	0.50
1:B:1436:SER:OG	1:B:1565:GLU:HB2	2.11	0.50
1:B:2381:GLU:HB3	1:B:2385:ARG:NH1	2.26	0.50
1:B:2887:GLY:HA3	1:B:2905:LEU:HD22	1.94	0.50
1:B:4222:VAL:HG11	1:B:4950:VAL:HA	1.92	0.50
1:B:5032:TYR:O	1:B:5036:LEU:N	2.37	0.50
1:D:638:ILE:HD13	1:D:702:TRP:O	2.11	0.50
1:D:874:LEU:CD2	1:D:1046:LEU:HD21	2.38	0.50
1:D:2121:PHE:O	1:D:3725:TYR:OH	2.27	0.50
1:D:2642:LYS:HB2	1:D:2698:MET:HE1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2758:PHE:CE2	1:D:2926:LEU:HD13	2.47	0.50
1:D:2779:GLU:O	1:D:2792:ARG:NH1	2.45	0.50
1:D:2957:PHE:CD1	1:D:3038:MET:HE1	2.47	0.50
1:D:3160:ASP:OD2	1:D:3161:VAL:N	2.44	0.50
1:D:3405:LEU:HD22	1:D:3409:TYR:CE2	2.46	0.50
1:D:4985:LEU:HD12	1:D:4986:ALA:N	2.27	0.50
1:C:792:LEU:HD23	1:C:799:GLU:O	2.11	0.50
1:C:887:ILE:HG23	1:C:959:TYR:CD2	2.46	0.50
1:C:1240:LYS:O	1:C:1603:VAL:HA	2.11	0.50
1:C:4205:TRP:CE3	1:C:4989:MET:HE2	2.46	0.50
1:A:1862:ILE:HA	1:A:1865:MET:SD	2.52	0.50
1:A:3104:GLU:HA	1:A:3107:VAL:HG22	1.94	0.50
1:A:3716:LEU:HD11	1:A:3782:MET:HE1	1.93	0.50
1:B:972:LEU:CD1	1:B:1044:ARG:HG2	2.41	0.50
1:B:1724:CYS:SG	1:B:1851:MET:HE2	2.52	0.50
1:B:2475:GLN:OE1	1:B:2488:PRO:HG3	2.12	0.50
1:B:2530:MET:SD	1:B:2554:LEU:CD2	3.00	0.50
1:D:776:LEU:HD21	1:D:848:HIS:HA	1.94	0.50
1:D:941:MET:HE1	1:D:1051:TYR:CE1	2.47	0.50
1:D:1245:PHE:CD2	1:D:1600:LEU:HD13	2.46	0.50
1:D:3734:HIS:C	1:D:3735:LEU:HD23	2.36	0.50
1:D:4241:THR:C	1:D:4245:MET:SD	2.94	0.50
1:C:2199:ARG:NH2	1:C:2246:ASN:OD1	2.44	0.50
1:C:2758:PHE:CE2	1:C:2926:LEU:HD13	2.47	0.50
1:C:2779:GLU:O	1:C:2792:ARG:NH1	2.45	0.50
1:C:2822:THR:OG1	1:C:2938:THR:OG1	2.30	0.50
1:C:2973:PHE:HA	1:C:2976:HIS:CD2	2.47	0.50
1:C:3039:ILE:HG12	1:C:3071:LEU:HD11	1.94	0.50
1:C:4885:PHE:HE2	1:C:4897:ILE:HD11	1.74	0.50
1:A:509:GLU:O	1:A:513:GLU:OE1	2.29	0.50
1:A:776:LEU:HD21	1:A:848:HIS:HA	1.94	0.50
1:A:887:ILE:HG23	1:A:959:TYR:CD2	2.46	0.50
1:A:2199:ARG:NH2	1:A:2246:ASN:OD1	2.44	0.50
1:A:2381:GLU:HB3	1:A:2385:ARG:NH1	2.26	0.50
1:A:3249:LEU:HD21	1:A:3273:THR:CG2	2.40	0.50
1:A:3432:GLU:HB3	1:A:3524:MET:CE	2.41	0.50
1:A:4632:LEU:HD12	1:A:4640:GLU:HG3	1.94	0.50
1:B:1230:MET:HE1	1:B:1234:VAL:HG22	1.93	0.50
1:B:2495:VAL:HG22	1:B:2498:HIS:ND1	2.27	0.50
1:B:2523:ASP:OD1	1:B:2524:VAL:N	2.44	0.50
1:B:2822:THR:OG1	1:B:2938:THR:OG1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:776:LEU:HD21	1:C:848:HIS:HA	1.94	0.50
1:C:941:MET:HE1	1:C:1051:TYR:CE1	2.47	0.50
1:C:3957:VAL:O	1:C:3961:VAL:HG23	2.11	0.50
1:A:616:SER:O	1:A:620:LEU:HG	2.12	0.50
1:A:1453:VAL:HG12	1:A:1492:CYS:HB2	1.94	0.50
1:A:2641:LEU:HD13	1:A:2698:MET:HG3	1.94	0.50
1:A:2684:ASP:O	1:A:2688:HIS:ND1	2.35	0.50
1:A:2887:GLY:HA3	1:A:2905:LEU:HD22	1.94	0.50
1:A:3137:LEU:HB3	1:A:3138:PRO:HD3	1.93	0.50
1:A:3415:TYR:O	1:A:3419:ASN:ND2	2.35	0.50
2:E:90:ILE:HG22	2:E:91:ILE:HG13	1.94	0.50
2:H:102:GLU:OE2	2:H:104:LEU:HG	2.12	0.50
2:G:57:ARG:O	2:G:58:GLY:C	2.54	0.50
1:B:553:ARG:NE	1:B:555:GLU:OE2	2.44	0.50
1:B:650:VAL:O	1:B:777:PHE:N	2.38	0.50
1:B:2716:ASP:OD1	1:B:2717:ALA:N	2.45	0.50
1:B:3015:LEU:O	1:B:3019:SER:OG	2.18	0.50
1:B:3039:ILE:HG12	1:B:3071:LEU:HD11	1.94	0.50
1:B:3100:SER:O	1:B:3103:ILE:N	2.45	0.50
1:D:3100:SER:O	1:D:3103:ILE:N	2.45	0.50
1:D:3274:LEU:HD22	1:D:3319:ILE:HD11	1.94	0.50
1:D:4956:THR:O	1:D:4965:SER:OG	2.28	0.50
1:C:2384:ILE:HG22	1:C:2388:GLU:OE2	2.11	0.50
1:C:2475:GLN:OE1	1:C:2488:PRO:HG3	2.12	0.50
1:C:2716:ASP:OD1	1:C:2717:ALA:N	2.45	0.50
1:C:2739:PRO:HG3	1:C:2885:THR:HA	1.93	0.50
1:C:3230:LEU:CD1	1:C:3232:LEU:HD13	2.40	0.50
1:C:4134:GLU:HB2	1:C:4135:PRO:HD3	1.94	0.50
1:A:368:ARG:NH2	1:A:2308:GLN:HB2	2.27	0.49
1:A:2384:ILE:HG22	1:A:2388:GLU:OE2	2.11	0.49
1:A:2822:THR:OG1	1:A:2938:THR:OG1	2.30	0.49
1:A:4071:ILE:CG2	1:A:4097:MET:HE1	2.41	0.49
1:A:4655:PHE:HA	1:A:4796:MET:HE1	1.92	0.49
1:B:244:LEU:HD22	1:B:375:LYS:HE2	1.94	0.49
1:B:887:ILE:HG23	1:B:959:TYR:CD2	2.46	0.49
1:B:3531:ASP:O	1:B:3535:LEU:HG	2.12	0.49
1:B:4134:GLU:HB2	1:B:4135:PRO:HD3	1.94	0.49
1:B:4168:GLU:HA	1:B:4171:LEU:HD12	1.94	0.49
1:B:4750:ILE:HA	1:B:4753:HIS:CD2	2.47	0.49
1:B:4781:GLY:O	1:B:4785:THR:HG23	2.12	0.49
1:D:244:LEU:HD22	1:D:375:LYS:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1527:MET:HE2	1:D:1542:VAL:CG1	2.42	0.49
1:D:2034:PHE:O	1:D:2037:ASP:OD1	2.30	0.49
1:D:2384:ILE:HG22	1:D:2388:GLU:OE2	2.11	0.49
1:D:2495:VAL:HG22	1:D:2498:HIS:ND1	2.27	0.49
1:D:3201:MET:HE2	1:D:3203:VAL:HG22	1.92	0.49
1:D:3531:ASP:O	1:D:3535:LEU:HG	2.12	0.49
1:D:3696:ASP:OD2	1:D:3773:ARG:NH1	2.45	0.49
1:D:4984:ASN:OD1	1:D:4986:ALA:HB3	2.12	0.49
1:C:368:ARG:NH2	1:C:2308:GLN:HB2	2.27	0.49
1:C:638:ILE:HD13	1:C:702:TRP:O	2.11	0.49
1:C:2642:LYS:HB2	1:C:2698:MET:HE1	1.93	0.49
1:C:3432:GLU:HB3	1:C:3524:MET:HE1	1.93	0.49
1:C:3996:PHE:O	1:C:4000:MET:HG3	2.12	0.49
1:C:4781:GLY:O	1:C:4785:THR:HG23	2.12	0.49
1:A:2767:ALA:HA	1:A:2791:LEU:HD11	1.93	0.49
1:A:2801:ASP:HA	1:A:2804:ILE:HG12	1.94	0.49
1:A:2880:GLU:HA	1:A:2883:HIS:HE1	1.77	0.49
1:A:2957:PHE:CD1	1:A:3038:MET:HE1	2.47	0.49
1:A:3226:GLU:O	1:A:3227:ARG:HG2	2.11	0.49
1:A:3607:GLU:N	1:A:3607:GLU:OE1	2.45	0.49
1:A:3842:LEU:CD2	1:A:3875:MET:HE2	2.43	0.49
1:A:4157:ASP:N	1:A:4161:ARG:NH1	2.59	0.49
2:E:37:ASP:OD1	2:E:42:ARG:NH1	2.43	0.49
2:H:57:ARG:O	2:H:58:GLY:C	2.54	0.49
1:B:2215:LEU:HD23	1:B:2223:ILE:HD11	1.92	0.49
1:B:2929:PHE:O	1:B:2932:MET:HG2	2.12	0.49
1:B:4632:LEU:HD12	1:B:4640:GLU:HG3	1.94	0.49
1:D:2684:ASP:O	1:D:2688:HIS:ND1	2.35	0.49
1:D:2977:LEU:HD22	1:D:3056:LEU:HD23	1.94	0.49
1:D:4781:GLY:O	1:D:4785:THR:HG23	2.12	0.49
1:C:2764:GLU:HB3	1:C:2857:PRO:HB3	1.94	0.49
1:C:4003:LEU:HD23	1:C:4009:GLN:OE1	2.12	0.49
1:C:4168:GLU:HA	1:C:4171:LEU:HD12	1.94	0.49
1:C:4750:ILE:HA	1:C:4753:HIS:CD2	2.47	0.49
1:A:672:VAL:O	1:A:680:THR:OG1	2.25	0.49
1:A:1573:MET:SD	1:A:1574:PRO:HD2	2.52	0.49
1:A:2121:PHE:O	1:A:3725:TYR:OH	2.27	0.49
1:A:2751:LEU:O	1:A:2751:LEU:HD23	2.13	0.49
1:A:3039:ILE:HG12	1:A:3071:LEU:HD11	1.94	0.49
1:A:3326:ASN:O	1:A:3329:ILE:HG12	2.13	0.49
1:A:3696:ASP:OD2	1:A:3773:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4985:LEU:HD12	1:A:4986:ALA:N	2.27	0.49
2:F:102:GLU:OE2	2:F:104:LEU:HG	2.12	0.49
1:B:2641:LEU:HD13	1:B:2698:MET:HG3	1.94	0.49
1:B:2779:GLU:O	1:B:2792:ARG:NH1	2.45	0.49
1:B:3100:SER:OG	1:B:3167:ARG:NH1	2.45	0.49
1:D:504:ALA:HB2	1:D:512:ALA:CB	2.40	0.49
1:D:1453:VAL:HG12	1:D:1492:CYS:HB2	1.94	0.49
1:C:3299:GLY:O	1:C:3300:ALA:HB2	2.11	0.49
1:C:3716:LEU:HD11	1:C:3782:MET:HE1	1.93	0.49
1:C:4632:LEU:HD12	1:C:4640:GLU:HG3	1.94	0.49
1:A:2716:ASP:OD1	1:A:2717:ALA:N	2.45	0.49
1:A:2725:LYS:HD2	1:A:2736:ASP:OD1	2.11	0.49
1:A:2973:PHE:HA	1:A:2976:HIS:CD2	2.47	0.49
2:H:90:ILE:HG22	2:H:91:ILE:HG13	1.94	0.49
1:B:1126:GLY:O	1:B:1129:GLY:N	2.44	0.49
1:B:2758:PHE:CE2	1:B:2926:LEU:HD13	2.47	0.49
1:B:2957:PHE:CD1	1:B:3038:MET:HE1	2.47	0.49
1:D:1141:ARG:HB2	1:C:3479:ALA:HB1	1.94	0.49
1:D:1463:ASN:O	1:D:1468:LYS:NZ	2.37	0.49
1:D:4157:ASP:OD2	1:D:4159:ARG:NH2	2.40	0.49
1:C:3274:LEU:HD22	1:C:3319:ILE:HD11	1.94	0.49
1:A:504:ALA:HB2	1:A:512:ALA:CB	2.41	0.49
1:A:701:GLY:N	1:A:1645:ASN:O	2.37	0.49
1:A:2977:LEU:HD22	1:A:3056:LEU:HD23	1.95	0.49
1:A:3409:TYR:OH	1:A:3441:ILE:HG21	2.13	0.49
1:A:3500:GLY:O	1:A:3504:SER:OG	2.25	0.49
1:A:3533:ILE:O	1:A:3537:LYS:HG2	2.13	0.49
1:A:4168:GLU:HA	1:A:4171:LEU:HD12	1.94	0.49
1:A:4984:ASN:OD1	1:A:4986:ALA:HB3	2.12	0.49
1:B:1527:MET:HE2	1:B:1542:VAL:CG1	2.42	0.49
1:B:2463:LEU:O	1:B:2467:VAL:HG23	2.13	0.49
1:B:3562:LYS:HZ2	1:B:3564:GLU:C	2.21	0.49
1:B:3696:ASP:OD2	1:B:3773:ARG:CZ	2.61	0.49
1:B:3716:LEU:HD11	1:B:3782:MET:HE1	1.93	0.49
1:D:553:ARG:NE	1:D:555:GLU:OE2	2.44	0.49
1:D:2475:GLN:OE1	1:D:2488:PRO:HG3	2.12	0.49
1:D:2822:THR:OG1	1:D:2938:THR:OG1	2.30	0.49
1:D:3039:ILE:HG12	1:D:3071:LEU:HD11	1.94	0.49
1:D:3326:ASN:O	1:D:3329:ILE:HG12	2.13	0.49
1:D:3607:GLU:N	1:D:3607:GLU:OE1	2.45	0.49
1:D:3696:ASP:OD2	1:D:3773:ARG:CZ	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3842:LEU:CD2	1:D:3875:MET:HE2	2.42	0.49
1:D:3957:VAL:O	1:D:3961:VAL:HG23	2.11	0.49
1:D:4003:LEU:HD23	1:D:4009:GLN:OE1	2.12	0.49
1:D:4168:GLU:HA	1:D:4171:LEU:HD12	1.94	0.49
1:D:4632:LEU:HD12	1:D:4640:GLU:HG3	1.94	0.49
1:C:1448:VAL:HB	1:C:1554:VAL:HG23	1.95	0.49
1:C:2523:ASP:OD1	1:C:2524:VAL:N	2.44	0.49
1:C:2929:PHE:O	1:C:2932:MET:HG2	2.13	0.49
1:C:3100:SER:O	1:C:3103:ILE:N	2.45	0.49
1:C:3696:ASP:OD2	1:C:3773:ARG:CZ	2.61	0.49
1:A:3562:LYS:HZ2	1:A:3564:GLU:C	2.21	0.49
1:A:4781:GLY:O	1:A:4785:THR:HG23	2.12	0.49
1:A:4879:MET:HG2	1:D:4580:TYR:O	2.12	0.49
2:G:1:GLY:N	2:G:80:TYR:CD2	2.80	0.49
1:B:2642:LYS:HB2	1:B:2698:MET:HE1	1.93	0.49
1:D:1448:VAL:HB	1:D:1554:VAL:HG23	1.95	0.49
1:D:2667:THR:HG1	1:D:2671:GLU:CD	2.10	0.49
1:D:2725:LYS:HD2	1:D:2736:ASP:OD1	2.12	0.49
1:D:2739:PRO:HG3	1:D:2885:THR:HA	1.94	0.49
1:D:2887:GLY:HA3	1:D:2905:LEU:HD22	1.94	0.49
1:C:2612[A]:ARG:HH11	1:C:2613:TYR:N	2.11	0.49
1:C:2742:THR:CG2	1:C:2814:LYS:HB3	2.41	0.49
1:C:2801:ASP:HA	1:C:2804:ILE:HG12	1.94	0.49
1:C:2887:GLY:HA3	1:C:2905:LEU:HD22	1.94	0.49
1:C:3158:LEU:HG	1:C:3159:ASP:N	2.28	0.49
1:C:4686:LEU:O	1:C:4691:GLN:N	2.33	0.49
1:A:722:TRP:CE2	1:A:727:ALA:HB2	2.48	0.49
1:A:2110:TYR:O	1:A:2112:GLN:NE2	2.39	0.49
1:A:2476:ILE:HG23	1:A:2536:LEU:HD11	1.95	0.49
1:A:2894:LEU:O	1:A:2898:GLY:N	2.36	0.49
1:A:3100:SER:O	1:A:3103:ILE:N	2.45	0.49
2:H:1:GLY:N	2:H:80:TYR:CD2	2.80	0.49
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.52	0.49
1:B:2801:ASP:HA	1:B:2804:ILE:HG12	1.94	0.49
1:B:3533:ILE:O	1:B:3537:LYS:HG2	2.13	0.49
1:B:3696:ASP:OD2	1:B:3773:ARG:NH1	2.45	0.49
1:D:616:SER:O	1:D:620:LEU:HG	2.12	0.49
1:D:1573:MET:SD	1:D:1574:PRO:HD2	2.52	0.49
1:D:3562:LYS:HZ2	1:D:3564:GLU:C	2.21	0.49
1:D:4745:LEU:C	1:D:4749:GLU:OE1	2.56	0.49
1:C:2265:LEU:HD12	1:C:2266:GLY:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2641:LEU:HD13	1:C:2698:MET:HG3	1.94	0.49
1:C:3533:ILE:O	1:C:3537:LYS:HG2	2.13	0.49
1:A:1105:ALA:O	1:A:1189:LEU:N	2.41	0.49
1:A:2165:LEU:CD1	1:A:2177:LEU:HD22	2.43	0.49
1:A:2463:LEU:O	1:A:2467:VAL:HG23	2.13	0.49
1:A:3696:ASP:OD2	1:A:3773:ARG:CZ	2.61	0.49
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.13	0.49
2:F:1:GLY:N	2:F:80:TYR:CD2	2.80	0.49
1:B:880:GLU:O	1:B:884:LEU:HG	2.13	0.49
1:D:1506:GLN:O	1:C:2774:ASN:ND2	2.42	0.49
1:D:2340:PHE:HB2	1:D:2435:ARG:HB3	1.95	0.49
1:D:2967:MET:O	1:D:2970:SER:OG	2.14	0.49
1:D:3107:VAL:O	1:D:3111:ARG:HG2	2.13	0.49
1:D:3499:ARG:HH12	1:D:3503:TYR:HB3	1.78	0.49
1:D:4134:GLU:HB2	1:D:4135:PRO:HD3	1.94	0.49
1:C:1995:THR:O	1:C:1999:ARG:HG2	2.13	0.49
1:C:2670:GLU:OE1	1:C:2670:GLU:N	2.42	0.49
1:C:3137:LEU:HB3	1:C:3138:PRO:HD3	1.93	0.49
1:C:3607:GLU:OE1	1:C:3607:GLU:N	2.45	0.49
1:C:4745:LEU:C	1:C:4749:GLU:OE1	2.56	0.49
1:A:2779:GLU:O	1:A:2792:ARG:NH1	2.45	0.49
1:A:2929:PHE:O	1:A:2932:MET:HG2	2.13	0.49
1:A:3499:ARG:HH12	1:A:3503:TYR:HB3	1.78	0.49
1:A:4134:GLU:HB2	1:A:4135:PRO:HD3	1.94	0.49
2:G:102:GLU:OE2	2:G:104:LEU:HG	2.12	0.49
1:B:2012:PHE:HZ	1:B:2031:LEU:HD23	1.75	0.49
1:B:2742:THR:CG2	1:B:2814:LYS:HB3	2.41	0.49
1:B:2751:LEU:HD23	1:B:2751:LEU:O	2.13	0.49
1:B:2764:GLU:HB3	1:B:2857:PRO:HB3	1.94	0.49
1:B:3024:VAL:HG23	1:B:3024:VAL:O	2.13	0.49
1:B:3104:GLU:HA	1:B:3107:VAL:HG22	1.94	0.49
1:B:3604:TYR:O	1:B:3608:GLN:HG2	2.13	0.49
1:B:3996:PHE:O	1:B:4000:MET:HG3	2.13	0.49
1:B:4060:LYS:O	1:B:4064:MET:HG3	2.13	0.49
1:B:4071:ILE:CG2	1:B:4097:MET:HE1	2.41	0.49
1:B:4984:ASN:OD1	1:B:4986:ALA:HB3	2.12	0.49
1:D:368:ARG:NH2	1:D:2308:GLN:HB2	2.27	0.49
1:D:2538:THR:O	1:D:2542:SER:OG	2.31	0.49
1:D:3100:SER:OG	1:D:3167:ARG:NH1	2.46	0.49
1:D:3164:SER:O	1:D:3168:THR:HG23	2.13	0.49
1:D:3409:TYR:OH	1:D:3441:ILE:HG21	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:616:SER:O	1:C:620:LEU:HG	2.12	0.49
1:C:2806:ARG:O	1:C:2810:LYS:N	2.32	0.49
1:C:2977:LEU:HD22	1:C:3056:LEU:HD23	1.94	0.49
1:A:244:LEU:HD22	1:A:375:LYS:HE2	1.93	0.49
1:A:920:TYR:HA	1:A:923:GLN:OE1	2.13	0.49
1:A:1699:GLU:HA	1:A:1814:MET:HE2	1.95	0.49
1:A:2806:ARG:O	1:A:2810:LYS:N	2.32	0.49
1:A:3052:HIS:NE2	1:A:3128:ASN:CG	2.65	0.49
2:E:1:GLY:N	2:E:80:TYR:CD2	2.81	0.49
1:B:371:VAL:HG12	1:B:373:LYS:H	1.78	0.49
1:B:883:ALA:HB1	1:B:907:LEU:HD13	1.95	0.49
1:B:2165:LEU:CD1	1:B:2177:LEU:HD22	2.43	0.49
1:B:2880:GLU:HA	1:B:2883:HIS:HE1	1.77	0.49
1:B:3775:ALA:O	1:B:3779:VAL:HG23	2.13	0.49
1:D:2641:LEU:HD13	1:D:2698:MET:HG3	1.94	0.49
1:D:2751:LEU:HD23	1:D:2751:LEU:O	2.13	0.49
1:D:2973:PHE:HA	1:D:2976:HIS:CD2	2.47	0.49
1:D:3510:ILE:HG23	1:D:3511:VAL:N	2.28	0.49
1:D:4056:GLU:HG3	1:D:4166:LEU:HD13	1.95	0.49
1:D:4157:ASP:H	1:D:4161:ARG:NH1	2.09	0.49
1:C:244:LEU:HD22	1:C:375:LYS:HE2	1.94	0.49
1:C:2290:LEU:HD23	1:C:2291:GLN:N	2.28	0.49
1:C:2520:HIS:O	1:C:2523:ASP:OD1	2.31	0.49
1:C:2776:SER:O	1:C:2787:THR:HG21	2.13	0.49
1:C:3107:VAL:O	1:C:3111:ARG:HG2	2.13	0.49
1:C:3531:ASP:O	1:C:3535:LEU:HG	2.12	0.49
1:A:2340:PHE:HB2	1:A:2435:ARG:HB3	1.95	0.48
1:A:2530:MET:SD	1:A:2554:LEU:CD2	3.00	0.48
1:A:3158:LEU:HG	1:A:3159:ASP:N	2.28	0.48
1:A:3510:ILE:HG23	1:A:3511:VAL:N	2.28	0.48
1:B:1448:VAL:HB	1:B:1554:VAL:HG23	1.95	0.48
1:B:2121:PHE:O	1:B:3725:TYR:OH	2.27	0.48
1:B:2238:TYR:O	1:B:2241:ARG:N	2.46	0.48
1:B:2575:ARG:CZ	1:B:2578:MET:HE1	2.43	0.48
1:D:722:TRP:CE2	1:D:727:ALA:HB2	2.48	0.48
1:D:2369[A]:ARG:NH2	1:D:2372:GLY:O	2.45	0.48
1:D:2520:HIS:O	1:D:2523:ASP:OD1	2.31	0.48
1:D:2530:MET:SD	1:D:2554:LEU:CD2	3.00	0.48
1:D:3104:GLU:HA	1:D:3107:VAL:HG22	1.94	0.48
1:D:3158:LEU:HG	1:D:3159:ASP:N	2.28	0.48
1:D:3996:PHE:O	1:D:4000:MET:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4071:ILE:CG2	1:D:4097:MET:HE1	2.41	0.48
1:C:2437:ALA:HB3	1:C:2508:ARG:HE	1.78	0.48
1:C:3504:SER:O	1:C:3507:THR:OG1	2.26	0.48
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.13	0.48
1:A:1448:VAL:HB	1:A:1554:VAL:HG23	1.95	0.48
1:A:2034:PHE:O	1:A:2037:ASP:OD1	2.30	0.48
1:A:3100:SER:OG	1:A:3167:ARG:NH1	2.46	0.48
1:A:4821:LYS:O	1:A:4825:THR:HG23	2.13	0.48
2:F:90:ILE:HG22	2:F:91:ILE:HG13	1.94	0.48
1:B:1995:THR:O	1:B:1999:ARG:HG2	2.13	0.48
1:B:2265:LEU:HD12	1:B:2266:GLY:N	2.28	0.48
1:B:2290:LEU:HD23	1:B:2291:GLN:N	2.28	0.48
1:B:3409:TYR:OH	1:B:3441:ILE:HG21	2.13	0.48
1:B:4157:ASP:N	1:B:4161:ARG:NH1	2.59	0.48
1:B:4821:LYS:O	1:B:4825:THR:HG23	2.13	0.48
1:D:2463:LEU:O	1:D:2467:VAL:HG23	2.13	0.48
1:D:4821:LYS:O	1:D:4825:THR:HG23	2.13	0.48
1:C:210:GLU:OE1	1:C:273:HIS:NE2	2.46	0.48
1:C:978:THR:HG23	1:C:981:GLN:OE1	2.14	0.48
1:C:1527:MET:HE2	1:C:1542:VAL:CG1	2.42	0.48
1:C:1699:GLU:HA	1:C:1814:MET:HE2	1.95	0.48
1:C:2340:PHE:HB2	1:C:2435:ARG:HB3	1.94	0.48
1:C:2463:LEU:O	1:C:2467:VAL:HG23	2.13	0.48
1:C:3842:LEU:CD2	1:C:3875:MET:HE2	2.43	0.48
1:C:4821:LYS:O	1:C:4825:THR:HG23	2.13	0.48
1:A:210:GLU:OE1	1:A:273:HIS:NE2	2.46	0.48
1:A:273:HIS:CE1	1:A:334:MET:HB3	2.49	0.48
1:A:462:GLU:HG2	1:A:463:GLU:N	2.28	0.48
1:A:880:GLU:O	1:A:884:LEU:HG	2.13	0.48
1:A:941:MET:HE1	1:A:1051:TYR:CE1	2.47	0.48
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.95	0.48
1:A:2212:VAL:HG11	1:A:2256:TYR:HE2	1.79	0.48
1:A:2265:LEU:HD12	1:A:2266:GLY:N	2.28	0.48
1:A:2675:THR:CG2	1:A:2706:ILE:HG23	2.44	0.48
1:A:3640:PRO:O	1:A:3643:ASN:N	2.41	0.48
1:B:616:SER:O	1:B:620:LEU:HG	2.12	0.48
1:B:787:VAL:HG22	1:B:789:VAL:HG23	1.96	0.48
1:B:941:MET:HE1	1:B:1051:TYR:CE1	2.47	0.48
1:B:2212:VAL:HG11	1:B:2256:TYR:HE2	1.79	0.48
1:B:2612[A]:ARG:HB3	1:B:2612[A]:ARG:CZ	2.43	0.48
1:B:3107:VAL:O	1:B:3111:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3326:ASN:O	1:B:3329:ILE:HG12	2.13	0.48
1:B:3635:CYS:HA	1:B:3638:MET:HE3	1.94	0.48
1:B:4003:LEU:HD23	1:B:4009:GLN:OE1	2.12	0.48
1:D:273:HIS:CE1	1:D:334:MET:HB3	2.49	0.48
1:D:790:ARG:HG3	1:D:1626:TRP:O	2.14	0.48
1:D:1109:LEU:HA	1:D:1120:LEU:HD13	1.95	0.48
1:D:1995:THR:O	1:D:1999:ARG:HG2	2.13	0.48
1:D:2675:THR:CG2	1:D:2706:ILE:HG23	2.44	0.48
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.13	0.48
1:C:371:VAL:HG12	1:C:373:LYS:H	1.78	0.48
1:C:722:TRP:CE2	1:C:727:ALA:HB2	2.48	0.48
1:C:920:TYR:HA	1:C:923:GLN:OE1	2.13	0.48
1:C:2751:LEU:O	1:C:2751:LEU:HD23	2.13	0.48
1:C:4984:ASN:OD1	1:C:4986:ALA:HB3	2.12	0.48
1:A:2612[A]:ARG:HH11	1:A:2613:TYR:N	2.11	0.48
1:A:3996:PHE:O	1:A:4000:MET:HG3	2.13	0.48
1:B:2476:ILE:HG23	1:B:2536:LEU:HD11	1.95	0.48
1:B:2684:ASP:O	1:B:2688:HIS:ND1	2.35	0.48
1:D:462:GLU:HG2	1:D:463:GLU:N	2.28	0.48
1:D:1699:GLU:HA	1:D:1814:MET:HE2	1.95	0.48
1:D:1929:MET:O	1:D:1930:LYS:HB3	2.13	0.48
1:D:2165:LEU:CD1	1:D:2177:LEU:HD22	2.43	0.48
1:D:2290:LEU:HD23	1:D:2291:GLN:N	2.28	0.48
1:D:2437:ALA:HB3	1:D:2508:ARG:HE	1.78	0.48
1:D:3024:VAL:O	1:D:3024:VAL:HG23	2.13	0.48
1:C:614:VAL:HG22	1:C:2169:GLN:NE2	2.29	0.48
1:C:790:ARG:HG3	1:C:1626:TRP:O	2.14	0.48
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.95	0.48
1:C:2530:MET:SD	1:C:2554:LEU:CD2	3.00	0.48
1:C:3104:GLU:HA	1:C:3107:VAL:HG22	1.94	0.48
1:C:3326:ASN:O	1:C:3329:ILE:HG12	2.13	0.48
1:A:2290:LEU:HD23	1:A:2291:GLN:N	2.28	0.48
1:A:2437:ALA:HB3	1:A:2508:ARG:HE	1.78	0.48
1:A:2575:ARG:CZ	1:A:2578:MET:HE1	2.43	0.48
1:A:3635:CYS:HA	1:A:3638:MET:HE3	1.94	0.48
1:A:3906:GLN:H	1:A:3912:THR:HG23	1.79	0.48
1:A:4552:LEU:HD12	1:A:4663:CYS:SG	2.53	0.48
1:A:4848:VAL:HG11	1:A:4887:MET:HG2	1.96	0.48
1:A:4902:GLU:O	1:A:4913:ARG:CZ	2.62	0.48
2:G:90:ILE:HG22	2:G:91:ILE:HG13	1.94	0.48
1:B:462:GLU:HG2	1:B:463:GLU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:722:TRP:CE2	1:B:727:ALA:HB2	2.48	0.48
1:B:2034:PHE:O	1:B:2037:ASP:OD1	2.30	0.48
1:B:2381:GLU:CB	1:B:2385:ARG:HH12	2.27	0.48
1:B:2776:SER:O	1:B:2787:THR:HG21	2.13	0.48
1:B:4848:VAL:HG11	1:B:4887:MET:HG2	1.96	0.48
1:B:4911:LEU:O	1:B:4914:VAL:HG22	2.13	0.48
1:D:880:GLU:O	1:D:884:LEU:HG	2.13	0.48
1:D:1286:MET:HG3	1:D:1461:ASP:O	2.13	0.48
1:D:2238:TYR:O	1:D:2241:ARG:N	2.46	0.48
1:D:2575:ARG:CZ	1:D:2578:MET:HE1	2.43	0.48
1:D:2880:GLU:HA	1:D:2883:HIS:HE1	1.77	0.48
1:D:2916:LYS:HG3	1:D:2920:ARG:HB2	1.96	0.48
1:C:1573:MET:SD	1:C:1574:PRO:HD2	2.52	0.48
1:C:1929:MET:O	1:C:1930:LYS:HB3	2.13	0.48
1:C:2575:ARG:CZ	1:C:2578:MET:HE1	2.43	0.48
1:C:3024:VAL:HG23	1:C:3024:VAL:O	2.13	0.48
1:C:3164:SER:O	1:C:3168:THR:HG23	2.13	0.48
1:C:4848:VAL:HG11	1:C:4887:MET:HG2	1.96	0.48
1:A:110:ARG:HD3	1:A:115:ARG:HE	1.79	0.48
1:A:1126:GLY:O	1:A:1129:GLY:N	2.44	0.48
1:A:1286:MET:HG3	1:A:1461:ASP:O	2.13	0.48
1:A:1527:MET:HE2	1:A:1542:VAL:CG1	2.42	0.48
1:A:2776:SER:O	1:A:2787:THR:HG21	2.13	0.48
1:A:2929:PHE:CD1	1:A:2932:MET:SD	3.07	0.48
1:A:3024:VAL:HG23	1:A:3024:VAL:O	2.13	0.48
1:A:3107:VAL:O	1:A:3111:ARG:HG2	2.13	0.48
1:A:3604:TYR:O	1:A:3608:GLN:HG2	2.13	0.48
1:A:4157:ASP:H	1:A:4161:ARG:NH1	2.09	0.48
1:A:4686:LEU:O	1:A:4691:GLN:N	2.33	0.48
1:A:4876:CYS:HA	1:A:4882:CYS:HB2	1.96	0.48
2:F:37:ASP:OD1	2:F:42:ARG:NH1	2.43	0.48
1:B:273:HIS:CE1	1:B:334:MET:HB3	2.49	0.48
1:B:790:ARG:HG3	1:B:1626:TRP:O	2.14	0.48
1:B:920:TYR:HA	1:B:923:GLN:OE1	2.13	0.48
1:B:2612[A]:ARG:HH11	1:B:2613:TYR:N	2.11	0.48
1:B:3274:LEU:HD22	1:B:3319:ILE:HD11	1.94	0.48
1:D:978:THR:HG23	1:D:981:GLN:OE1	2.14	0.48
1:D:2381:GLU:CB	1:D:2385:ARG:HH12	2.27	0.48
1:D:2476:ILE:HG23	1:D:2536:LEU:HD11	1.95	0.48
1:D:2929:PHE:CD1	1:D:2932:MET:SD	3.07	0.48
1:D:3270:ILE:H	1:D:3270:ILE:HD12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3635:CYS:HA	1:D:3638:MET:HE3	1.94	0.48
1:C:2238:TYR:O	1:C:2241:ARG:N	2.46	0.48
1:C:4911:LEU:O	1:C:4914:VAL:HG22	2.13	0.48
1:A:371:VAL:HG12	1:A:373:LYS:H	1.78	0.48
1:A:1995:THR:O	1:A:1999:ARG:HG2	2.13	0.48
1:A:2612[A]:ARG:HB3	1:A:2612[A]:ARG:CZ	2.43	0.48
1:A:3164:SER:O	1:A:3168:THR:HG23	2.13	0.48
1:B:1929:MET:O	1:B:1930:LYS:HB3	2.13	0.48
1:B:2255:SER:O	1:B:2258:LEU:HB2	2.14	0.48
1:B:2340:PHE:HB2	1:B:2435:ARG:HB3	1.95	0.48
1:B:2520:HIS:O	1:B:2523:ASP:OD1	2.31	0.48
1:B:2977:LEU:HD22	1:B:3056:LEU:HD23	1.95	0.48
1:B:3607:GLU:OE1	1:B:3607:GLU:N	2.45	0.48
1:D:1699:GLU:OE2	1:D:1813:ARG:NH2	2.47	0.48
1:D:2265:LEU:HD12	1:D:2266:GLY:N	2.28	0.48
1:D:2612[A]:ARG:HB3	1:D:2612[A]:ARG:CZ	2.43	0.48
1:D:2668:SER:O	1:D:2669:GLU:CG	2.60	0.48
1:D:2703:LEU:HD12	1:D:2703:LEU:C	2.39	0.48
1:D:3111:ARG:NH2	1:D:3178:THR:HG21	2.29	0.48
1:D:3604:TYR:O	1:D:3608:GLN:HG2	2.13	0.48
1:C:368:ARG:HH22	1:C:2308:GLN:HB2	1.79	0.48
1:C:883:ALA:HB1	1:C:907:LEU:HD13	1.95	0.48
1:C:2929:PHE:CD1	1:C:2932:MET:SD	3.07	0.48
1:C:3924:LEU:O	1:C:3927:GLN:HG3	2.13	0.48
1:C:4552:LEU:HD12	1:C:4663:CYS:SG	2.53	0.48
1:A:790:ARG:HG3	1:A:1626:TRP:O	2.14	0.48
1:A:2667:THR:HG1	1:A:2671:GLU:CD	2.12	0.48
1:A:2801:ASP:O	1:A:2804:ILE:HG12	2.14	0.48
1:A:3270:ILE:H	1:A:3270:ILE:HD12	1.79	0.48
1:A:4003:LEU:HD23	1:A:4009:GLN:OE1	2.12	0.48
1:A:4745:LEU:C	1:A:4749:GLU:OE1	2.56	0.48
1:B:210:GLU:OE1	1:B:273:HIS:NE2	2.46	0.48
1:B:368:ARG:HH22	1:B:2308:GLN:HB2	1.79	0.48
1:B:1109:LEU:HA	1:B:1120:LEU:HD13	1.95	0.48
1:B:2541:PHE:HA	1:B:2544:THR:HG23	1.95	0.48
1:B:2916:LYS:HG3	1:B:2920:ARG:HB2	1.96	0.48
1:B:3479:ALA:HB1	1:C:1141:ARG:HB2	1.96	0.48
1:B:4149:ASN:OD1	1:B:4153:HIS:ND1	2.47	0.48
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.13	0.48
1:B:4902:GLU:O	1:B:4913:ARG:CZ	2.62	0.48
1:D:210:GLU:OE1	1:D:273:HIS:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:371:VAL:HG12	1:D:373:LYS:H	1.78	0.48
1:D:614:VAL:HG22	1:D:2169:GLN:NE2	2.29	0.48
1:D:920:TYR:HA	1:D:923:GLN:OE1	2.13	0.48
1:D:2776:SER:O	1:D:2787:THR:HG21	2.13	0.48
1:D:2801:ASP:HA	1:D:2804:ILE:HG12	1.94	0.48
1:D:3105:LYS:CE	1:D:3128:ASN:HD22	2.27	0.48
1:D:3427:PRO:CD	1:D:3579:LEU:HD21	2.41	0.48
1:D:3533:ILE:O	1:D:3537:LYS:HG2	2.13	0.48
1:D:3906:GLN:H	1:D:3912:THR:HG23	1.79	0.48
1:D:4848:VAL:HG11	1:D:4887:MET:HG2	1.96	0.48
1:D:4911:LEU:O	1:D:4914:VAL:HG22	2.13	0.48
1:C:2165:LEU:CD1	1:C:2177:LEU:HD22	2.43	0.48
1:C:2684:ASP:O	1:C:2688:HIS:ND1	2.35	0.48
1:C:2700:MET:O	1:C:2704:CYS:SG	2.72	0.48
1:C:3635:CYS:HA	1:C:3638:MET:HE3	1.94	0.48
1:C:4056:GLU:HG3	1:C:4166:LEU:HD13	1.95	0.48
1:C:4060:LYS:O	1:C:4064:MET:HG3	2.13	0.48
1:C:4157:ASP:N	1:C:4161:ARG:NH1	2.59	0.48
1:A:2381:GLU:CB	1:A:2385:ARG:HH12	2.27	0.48
1:A:2703:LEU:C	1:A:2703:LEU:HD12	2.39	0.48
1:A:3274:LEU:HD22	1:A:3319:ILE:HD11	1.94	0.48
1:A:3924:LEU:O	1:A:3927:GLN:HG3	2.13	0.48
1:B:1286:MET:HG3	1:B:1461:ASP:O	2.13	0.48
1:B:1699:GLU:OE2	1:B:1813:ARG:NH2	2.47	0.48
1:B:3158:LEU:HG	1:B:3159:ASP:N	2.28	0.48
1:B:3164:SER:O	1:B:3168:THR:HG23	2.13	0.48
1:B:3209:GLN:HG2	1:B:3210:LEU:HG	1.96	0.48
1:B:4027:LEU:CD2	1:B:4044:MET:HE2	2.41	0.48
1:B:4552:LEU:HD12	1:B:4663:CYS:SG	2.53	0.48
1:B:4686:LEU:O	1:B:4691:GLN:N	2.33	0.48
1:D:2166:LEU:CD1	1:D:2206:THR:HG23	2.44	0.48
1:D:3640:PRO:O	1:D:3643:ASN:N	2.41	0.48
1:D:3924:LEU:O	1:D:3927:GLN:HG3	2.13	0.48
1:C:787:VAL:HG22	1:C:789:VAL:HG23	1.96	0.48
1:C:880:GLU:O	1:C:884:LEU:HG	2.13	0.48
1:C:2255:SER:O	1:C:2258:LEU:HB2	2.14	0.48
1:C:2538:THR:O	1:C:2542:SER:OG	2.31	0.48
1:C:2541:PHE:HA	1:C:2544:THR:HG23	1.95	0.48
1:C:2615:ARG:HD3	1:C:2618:MET:HE1	1.96	0.48
1:C:2703:LEU:C	1:C:2703:LEU:HD12	2.39	0.48
1:C:3105:LYS:CE	1:C:3128:ASN:HD22	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3388:GLU:OE1	1:C:3388:GLU:N	2.47	0.48
1:C:3604:TYR:O	1:C:3608:GLN:HG2	2.13	0.48
1:A:2238:TYR:O	1:A:2241:ARG:N	2.46	0.48
1:A:3209:GLN:HG2	1:A:3210:LEU:HG	1.96	0.48
1:B:172:VAL:HG13	1:B:178:ARG:C	2.39	0.48
1:B:614:VAL:HG22	1:B:2169:GLN:NE2	2.29	0.48
1:B:2929:PHE:CD1	1:B:2932:MET:SD	3.07	0.48
1:B:3510:ILE:HG23	1:B:3511:VAL:N	2.28	0.48
1:B:3906:GLN:H	1:B:3912:THR:HG23	1.79	0.48
1:B:4745:LEU:C	1:B:4749:GLU:OE1	2.56	0.48
1:D:632:LEU:O	1:D:634:GLN:NE2	2.45	0.48
1:D:1281:ASN:C	1:D:1281:ASN:OD1	2.57	0.48
1:D:4149:ASN:OD1	1:D:4153:HIS:ND1	2.47	0.48
1:D:4902:GLU:O	1:D:4913:ARG:CZ	2.62	0.48
1:C:172:VAL:HG13	1:C:178:ARG:C	2.39	0.48
1:C:1281:ASN:C	1:C:1281:ASN:OD1	2.57	0.48
1:C:1699:GLU:OE2	1:C:1813:ARG:NH2	2.47	0.48
1:C:2034:PHE:O	1:C:2037:ASP:OD1	2.30	0.48
1:C:2381:GLU:CB	1:C:2385:ARG:HH12	2.27	0.48
1:C:2675:THR:CG2	1:C:2706:ILE:HG23	2.44	0.48
1:C:3499:ARG:HH12	1:C:3503:TYR:HB3	1.78	0.48
1:C:4149:ASN:OD1	1:C:4153:HIS:ND1	2.47	0.48
1:A:206:CYS:HA	1:A:334:MET:CE	2.45	0.47
1:A:514:SER:O	1:A:515:TRP:C	2.57	0.47
1:A:2255:SER:O	1:A:2258:LEU:HB2	2.14	0.47
1:A:4056:GLU:HG3	1:A:4166:LEU:HD13	1.95	0.47
1:A:4149:ASN:OD1	1:A:4153:HIS:ND1	2.47	0.47
1:A:4674:GLU:OE2	1:A:4775:TYR:OH	2.30	0.47
1:A:4911:LEU:O	1:A:4914:VAL:HG22	2.13	0.47
1:B:978:THR:HG23	1:B:981:GLN:OE1	2.14	0.47
1:B:2437:ALA:HB3	1:B:2508:ARG:HE	1.78	0.47
1:B:2685:SER:O	1:B:2689:LYS:HG2	2.14	0.47
1:B:2816:MET:HG2	1:B:2878:LEU:CD1	2.44	0.47
1:B:3546:ASP:O	1:B:3549:VAL:HG22	2.14	0.47
1:B:3842:LEU:CD2	1:B:3875:MET:HE2	2.43	0.47
1:B:4835:LYS:O	1:B:4839:MET:HG2	2.14	0.47
1:D:110:ARG:HD3	1:D:115:ARG:HE	1.79	0.47
1:D:172:VAL:HG13	1:D:178:ARG:C	2.39	0.47
1:D:2212:VAL:HG11	1:D:2256:TYR:HE2	1.79	0.47
1:C:899:ASP:O	1:C:902:ARG:NH2	2.44	0.47
1:C:1286:MET:HG3	1:C:1461:ASP:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2476:ILE:HG23	1:C:2536:LEU:HD11	1.95	0.47
1:C:2612[A]:ARG:HB3	1:C:2612[A]:ARG:CZ	2.43	0.47
1:C:2685:SER:O	1:C:2689:LYS:HG2	2.14	0.47
1:C:2888:ARG:NH2	1:C:2892:GLN:OE1	2.43	0.47
1:C:2988:LYS:HZ1	1:C:2990:PRO:HG3	1.78	0.47
1:C:3100:SER:OG	1:C:3167:ARG:NH1	2.45	0.47
1:C:4876:CYS:HA	1:C:4882:CYS:HB2	1.96	0.47
1:A:172:VAL:HG13	1:A:178:ARG:C	2.39	0.47
1:A:1857:GLU:O	1:A:1861:GLN:OE1	2.32	0.47
1:A:1962:ALA:O	1:A:1966:VAL:HG13	2.14	0.47
1:A:2520:HIS:O	1:A:2523:ASP:OD1	2.31	0.47
1:A:2700:MET:O	1:A:2704:CYS:SG	2.72	0.47
1:A:3162:GLN:O	1:A:3166:TYR:CD2	2.67	0.47
1:A:4060:LYS:O	1:A:4064:MET:HG3	2.13	0.47
1:A:4680:LYS:O	1:A:4685:GLY:N	2.47	0.47
1:B:206:CYS:HA	1:B:334:MET:CE	2.44	0.47
1:B:514:SER:O	1:B:515:TRP:C	2.57	0.47
1:B:3039:ILE:CG1	1:B:3071:LEU:HD11	2.45	0.47
1:D:206:CYS:HA	1:D:334:MET:CE	2.44	0.47
1:D:1857:GLU:O	1:D:1861:GLN:OE1	2.32	0.47
1:D:1962:ALA:O	1:D:1966:VAL:HG13	2.14	0.47
1:D:2036:GLN:O	1:D:2045:GLN:OE1	2.32	0.47
1:D:2292:GLU:HA	1:D:2295:LEU:HD12	1.96	0.47
1:D:2801:ASP:O	1:D:2804:ILE:HG12	2.14	0.47
1:D:2806:ARG:O	1:D:2810:LYS:N	2.32	0.47
1:D:4686:LEU:HG	1:D:4687:TYR:N	2.29	0.47
1:D:4835:LYS:O	1:D:4839:MET:HG2	2.14	0.47
1:C:462:GLU:HG2	1:C:463:GLU:N	2.28	0.47
1:C:2668:SER:O	1:C:2669:GLU:CG	2.59	0.47
1:C:3162:GLN:O	1:C:3166:TYR:CD2	2.67	0.47
1:C:3315:LEU:O	1:C:3319:ILE:HG12	2.14	0.47
1:C:3510:ILE:HG23	1:C:3511:VAL:N	2.28	0.47
1:C:3906:GLN:H	1:C:3912:THR:HG23	1.79	0.47
1:C:5032:TYR:O	1:C:5036:LEU:N	2.37	0.47
1:A:368:ARG:HH22	1:A:2308:GLN:HB2	1.79	0.47
1:A:614:VAL:HG22	1:A:2169:GLN:NE2	2.29	0.47
1:A:787:VAL:HG22	1:A:789:VAL:HG23	1.96	0.47
1:A:883:ALA:HB1	1:A:907:LEU:HD13	1.95	0.47
1:A:1699:GLU:OE2	1:A:1813:ARG:NH2	2.47	0.47
1:A:2952:GLU:HA	1:A:2957:PHE:CD2	2.50	0.47
1:A:2962:GLN:O	1:A:2966:TRP:HD1	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3283:ARG:HG2	1:A:3287:ARG:NH2	2.28	0.47
1:A:3384:LYS:H	1:A:3387:ALA:HB3	1.78	0.47
1:A:4718:LYS:O	1:A:4722:ARG:NH2	2.48	0.47
2:F:84:ALA:CB	2:F:94:HIS:CE1	2.97	0.47
1:B:632:LEU:O	1:B:634:GLN:NE2	2.45	0.47
1:B:2204:HIS:NE2	1:B:2205:GLU:OE2	2.47	0.47
1:B:2377:LEU:HD13	1:B:2469:ILE:HG13	1.96	0.47
1:B:3315:LEU:O	1:B:3319:ILE:HG12	2.15	0.47
1:B:4001:MET:HG3	1:B:4057:MET:SD	2.55	0.47
1:D:1207:ASP:O	1:D:1210:SER:OG	2.24	0.47
1:D:2962:GLN:O	1:D:2966:TRP:HD1	1.97	0.47
1:D:3162:GLN:O	1:D:3166:TYR:CD2	2.67	0.47
1:D:3359:ILE:HG23	1:D:3437:MET:HE1	1.96	0.47
1:C:2036:GLN:O	1:C:2045:GLN:OE1	2.32	0.47
1:C:3111:ARG:NH2	1:C:3178:THR:HG21	2.29	0.47
1:C:3384:LYS:H	1:C:3387:ALA:HB3	1.78	0.47
1:C:3409:TYR:OH	1:C:3441:ILE:HG21	2.13	0.47
1:C:4718:LYS:O	1:C:4722:ARG:NH2	2.48	0.47
1:C:4835:LYS:O	1:C:4839:MET:HG2	2.14	0.47
1:A:978:THR:HG23	1:A:981:GLN:OE1	2.14	0.47
1:A:1929:MET:O	1:A:1930:LYS:HB3	2.13	0.47
1:A:2204:HIS:NE2	1:A:2205:GLU:OE2	2.47	0.47
1:A:2243:SER:HB3	1:A:2246:ASN:CG	2.39	0.47
1:A:2615:ARG:HD3	1:A:2618:MET:HE1	1.96	0.47
1:A:3479:ALA:HB1	1:B:1141:ARG:HB2	1.96	0.47
1:A:4001:MET:HG3	1:A:4057:MET:SD	2.55	0.47
1:A:4702:ASP:O	1:A:4705:VAL:HG12	2.14	0.47
2:E:84:ALA:CB	2:E:94:HIS:CE1	2.97	0.47
2:H:84:ALA:CB	2:H:94:HIS:CE1	2.97	0.47
1:B:1699:GLU:HA	1:B:1814:MET:HE2	1.95	0.47
1:B:1819:VAL:HG22	1:B:1926:LEU:HD21	1.96	0.47
1:B:2090:LYS:NZ	1:B:2092:GLN:OE1	2.45	0.47
1:B:2687:ALA:HB1	1:B:2966:TRP:HH2	1.76	0.47
1:B:3388:GLU:OE1	1:B:3388:GLU:N	2.46	0.47
1:B:3499:ARG:HH12	1:B:3503:TYR:HB3	1.78	0.47
1:B:4702:ASP:O	1:B:4705:VAL:HG12	2.14	0.47
1:D:955:LEU:HD23	1:D:969:PRO:HD3	1.96	0.47
1:D:1575:LEU:CD2	1:D:1579:MET:SD	3.02	0.47
1:D:1819:VAL:HG22	1:D:1926:LEU:HD21	1.96	0.47
1:D:2255:SER:O	1:D:2258:LEU:HB2	2.14	0.47
1:D:2612[A]:ARG:HH11	1:D:2613:TYR:N	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2929:PHE:O	1:D:2932:MET:HG2	2.13	0.47
1:D:3277:LEU:CD2	1:D:3315:LEU:HD22	2.44	0.47
1:D:4702:ASP:O	1:D:4705:VAL:HG12	2.14	0.47
1:C:919:ASN:O	1:C:923:GLN:OE1	2.33	0.47
1:C:2292:GLU:HA	1:C:2295:LEU:HD12	1.96	0.47
1:C:2801:ASP:O	1:C:2804:ILE:HG12	2.14	0.47
1:C:3040:THR:HG21	1:C:3080:VAL:HG21	1.96	0.47
1:C:3702:VAL:HG11	1:C:3773:ARG:O	2.15	0.47
1:C:4157:ASP:H	1:C:4161:ARG:NH1	2.09	0.47
1:C:4705:VAL:HG22	1:C:4711:PHE:CD1	2.49	0.47
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.13	0.47
1:A:231:LEU:HD11	1:A:245:VAL:CG1	2.44	0.47
1:A:1505:GLN:C	1:A:1508:ARG:HB2	2.40	0.47
1:A:2155:LEU:CD1	1:A:2185:ILE:HG23	2.44	0.47
1:A:3111:ARG:NH2	1:A:3178:THR:HG21	2.29	0.47
1:A:3320:LEU:HD12	1:A:3353:LEU:HD21	1.97	0.47
1:A:3571:TRP:CE2	1:B:1228:ILE:HD11	2.49	0.47
1:A:4644:TRP:O	1:A:4648:LEU:HD13	2.15	0.47
1:B:1024:TYR:O	1:B:1027:LEU:N	2.48	0.47
1:B:2911:LEU:HD12	1:B:2912:THR:O	2.15	0.47
1:B:3105:LYS:CE	1:B:3128:ASN:HD22	2.27	0.47
1:B:3924:LEU:O	1:B:3927:GLN:HG3	2.13	0.47
1:D:1024:TYR:O	1:D:1027:LEU:N	2.48	0.47
1:D:1449:TRP:C	1:D:1494:MET:HE2	2.40	0.47
1:D:2674:LEU:HA	1:D:2677:LYS:CE	2.41	0.47
1:D:2700:MET:O	1:D:2704:CYS:SG	2.72	0.47
1:D:2742:THR:CG2	1:D:2814:LYS:HB3	2.41	0.47
1:D:2952:GLU:HA	1:D:2957:PHE:CD2	2.50	0.47
1:D:4879:MET:HG2	1:C:4580:TYR:O	2.14	0.47
1:C:206:CYS:HA	1:C:334:MET:CE	2.45	0.47
1:C:1857:GLU:O	1:C:1861:GLN:OE1	2.32	0.47
1:C:1962:ALA:O	1:C:1966:VAL:HG13	2.14	0.47
1:C:2204:HIS:NE2	1:C:2205:GLU:OE2	2.47	0.47
1:C:2212:VAL:HG11	1:C:2256:TYR:HE2	1.79	0.47
1:C:2687:ALA:HB1	1:C:2966:TRP:HH2	1.75	0.47
1:C:2916:LYS:HG3	1:C:2920:ARG:HB2	1.96	0.47
1:A:2036:GLN:O	1:A:2045:GLN:OE1	2.32	0.47
1:A:2430:ILE:HG21	1:A:2502:MET:HA	1.97	0.47
1:A:2660:GLY:HA3	1:A:2666:VAL:HG12	1.97	0.47
1:A:2816:MET:HG2	1:A:2878:LEU:CD1	2.44	0.47
1:A:3039:ILE:CG1	1:A:3071:LEU:HD11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3277:LEU:CD2	1:A:3315:LEU:HD22	2.44	0.47
1:A:3607:GLU:O	1:A:3611:HIS:CD2	2.68	0.47
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.13	0.47
2:H:25:HIS:CB	2:H:102:GLU:OE2	2.63	0.47
1:B:414:PHE:CD2	1:B:418:LEU:HD11	2.49	0.47
1:B:656:SER:HA	1:B:852:VAL:HG22	1.96	0.47
1:B:1857:GLU:O	1:B:1861:GLN:OE1	2.32	0.47
1:B:1962:ALA:O	1:B:1966:VAL:HG13	2.14	0.47
1:B:2674:LEU:HA	1:B:2677:LYS:CE	2.41	0.47
1:B:2700:MET:O	1:B:2704:CYS:SG	2.72	0.47
1:B:2977:LEU:HD22	1:B:3056:LEU:CD2	2.45	0.47
1:B:3162:GLN:O	1:B:3166:TYR:CD2	2.67	0.47
1:B:3607:GLU:O	1:B:3611:HIS:CD2	2.68	0.47
1:B:4056:GLU:HG3	1:B:4166:LEU:HD13	1.95	0.47
1:B:4580:TYR:O	1:C:4879:MET:HG2	2.15	0.47
1:D:883:ALA:HB1	1:D:907:LEU:HD13	1.95	0.47
1:D:3320:LEU:HD12	1:D:3353:LEU:HD21	1.97	0.47
1:D:3775:ALA:O	1:D:3779:VAL:HG23	2.13	0.47
1:D:4060:LYS:O	1:D:4064:MET:HG3	2.13	0.47
1:C:553:ARG:NE	1:C:555:GLU:OE2	2.44	0.47
1:C:1575:LEU:CD2	1:C:1579:MET:SD	3.02	0.47
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.15	0.47
1:C:2981:VAL:O	1:C:2985:ARG:NH1	2.48	0.47
1:C:3607:GLU:O	1:C:3611:HIS:CD2	2.68	0.47
1:C:4071:ILE:CG2	1:C:4097:MET:HE1	2.41	0.47
1:C:4644:TRP:O	1:C:4648:LEU:HD13	2.15	0.47
1:A:144:GLU:OE2	1:D:2452:ARG:NH1	2.47	0.47
1:A:414:PHE:CD2	1:A:418:LEU:HD11	2.50	0.47
1:A:943:ASP:N	1:A:943:ASP:OD1	2.48	0.47
1:A:1435:TYR:CE2	1:A:1550:PRO:HB3	2.50	0.47
1:A:2611:CYS:CB	1:A:2643:LEU:HD11	2.45	0.47
1:A:2911:LEU:HD12	1:A:2912:THR:O	2.15	0.47
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.15	0.47
1:A:2980:VAL:HG11	1:A:2986:VAL:HG12	1.97	0.47
1:A:3603:LEU:O	1:A:3604:TYR:C	2.58	0.47
1:A:3969:ILE:CG2	1:A:3980:LEU:HD12	2.45	0.47
1:A:4835:LYS:O	1:A:4839:MET:HG2	2.14	0.47
2:G:84:ALA:CB	2:G:94:HIS:CE1	2.97	0.47
1:B:909:ASN:ND2	1:B:965:TYR:CD2	2.78	0.47
1:B:919:ASN:O	1:B:923:GLN:OE1	2.33	0.47
1:B:1112:ASP:CG	1:B:1113:VAL:HG23	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1575:LEU:CD2	1:B:1579:MET:SD	3.02	0.47
1:B:2243:SER:HB3	1:B:2246:ASN:CG	2.39	0.47
1:B:2430:ILE:HG21	1:B:2502:MET:HA	1.97	0.47
1:B:2538:THR:O	1:B:2542:SER:OG	2.31	0.47
1:B:2601:ASP:OD1	1:B:2601:ASP:C	2.58	0.47
1:B:2615:ARG:HD3	1:B:2618:MET:HE1	1.96	0.47
1:B:2703:LEU:C	1:B:2703:LEU:HD12	2.39	0.47
1:B:2801:ASP:O	1:B:2804:ILE:HG12	2.14	0.47
1:B:2967:MET:O	1:B:2970:SER:OG	2.14	0.47
1:B:3277:LEU:CD2	1:B:3315:LEU:HD22	2.44	0.47
1:B:3384:LYS:H	1:B:3387:ALA:HB3	1.78	0.47
1:B:3415:TYR:O	1:B:3419:ASN:ND2	2.35	0.47
1:B:3702:VAL:HG11	1:B:3773:ARG:O	2.15	0.47
1:B:3971:GLY:N	1:B:3972:PRO:HA	2.30	0.47
1:B:4718:LYS:O	1:B:4722:ARG:NH2	2.48	0.47
1:B:4827:LEU:HD23	1:B:4831:THR:CG2	2.44	0.47
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	1.96	0.47
1:D:787:VAL:HG22	1:D:789:VAL:HG23	1.96	0.47
1:D:1858:ASP:O	1:D:1862:ILE:HG13	2.15	0.47
1:D:2204:HIS:NE2	1:D:2205:GLU:OE2	2.47	0.47
1:D:2243:SER:HB3	1:D:2246:ASN:CG	2.39	0.47
1:D:2377:LEU:HD13	1:D:2469:ILE:HG13	1.96	0.47
1:D:2524:VAL:HG23	1:D:2525:GLY:N	2.30	0.47
1:D:2541:PHE:HA	1:D:2544:THR:HG23	1.95	0.47
1:D:2660:GLY:HA3	1:D:2666:VAL:HG12	1.97	0.47
1:D:2981:VAL:O	1:D:2985:ARG:NH1	2.48	0.47
1:D:4069:LYS:HE2	1:D:4129:ALA:HB1	1.96	0.47
1:D:4827:LEU:HD23	1:D:4831:THR:CG2	2.44	0.47
1:C:913:LEU:HD11	1:C:918:ARG:HG2	1.97	0.47
1:C:2035:HIS:ND1	1:C:3657:TYR:OH	2.17	0.47
1:C:2601:ASP:OD1	1:C:2601:ASP:C	2.58	0.47
1:C:3087:ILE:HG13	1:C:3088:VAL:N	2.30	0.47
1:C:3415:TYR:O	1:C:3419:ASN:ND2	2.35	0.47
1:C:4027:LEU:CD2	1:C:4044:MET:HE2	2.41	0.47
1:A:1281:ASN:C	1:A:1281:ASN:OD1	2.57	0.47
1:A:1819:VAL:HG22	1:A:1926:LEU:HD21	1.96	0.47
1:A:2541:PHE:HA	1:A:2544:THR:HG23	1.95	0.47
1:A:3093:ARG:O	1:A:3097:GLU:OE1	2.33	0.47
1:A:3315:LEU:O	1:A:3319:ILE:HG12	2.14	0.47
1:A:3359:ILE:HG23	1:A:3437:MET:HE1	1.96	0.47
1:A:4823:LEU:CD2	1:B:4839:MET:HE3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4885:PHE:HE2	1:A:4897:ILE:HD11	1.73	0.47
1:B:1207:ASP:O	1:B:1210:SER:OG	2.24	0.47
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.48	0.47
1:B:2036:GLN:O	1:B:2045:GLN:OE1	2.32	0.47
1:B:2155:LEU:CD1	1:B:2185:ILE:HG23	2.44	0.47
1:B:2325:PRO:O	1:B:2329:GLU:OE1	2.33	0.47
1:B:2675:THR:CG2	1:B:2706:ILE:HG23	2.44	0.47
1:B:3040:THR:HG21	1:B:3080:VAL:HG21	1.96	0.47
1:B:3111:ARG:NH2	1:B:3178:THR:HG21	2.29	0.47
1:B:3359:ILE:HG23	1:B:3437:MET:HE1	1.96	0.47
1:B:4705:VAL:HG22	1:B:4711:PHE:CD1	2.49	0.47
1:D:322:LYS:NZ	1:D:354:GLY:O	2.46	0.47
1:D:368:ARG:HH22	1:D:2308:GLN:HB2	1.79	0.47
1:D:414:PHE:CD2	1:D:418:LEU:HD11	2.50	0.47
1:D:891:TRP:HE1	1:D:902:ARG:CZ	2.28	0.47
1:D:913:LEU:HD11	1:D:918:ARG:HG2	1.97	0.47
1:D:2155:LEU:CD1	1:D:2185:ILE:HG23	2.44	0.47
1:D:2685:SER:O	1:D:2689:LYS:HG2	2.14	0.47
1:D:3607:GLU:O	1:D:3611:HIS:CD2	2.68	0.47
1:D:3628:ARG:O	1:D:3631:ALA:N	2.42	0.47
1:D:4552:LEU:HD12	1:D:4663:CYS:SG	2.53	0.47
1:D:4680:LYS:O	1:D:4685:GLY:N	2.47	0.47
1:D:4718:LYS:O	1:D:4722:ARG:NH2	2.48	0.47
1:C:273:HIS:CE1	1:C:334:MET:HB3	2.49	0.47
1:C:1858:ASP:O	1:C:1862:ILE:HG13	2.15	0.47
1:C:2930:LEU:O	1:C:2935:TYR:N	2.47	0.47
1:C:2977:LEU:HD22	1:C:3056:LEU:CD2	2.45	0.47
1:C:3359:ILE:HG23	1:C:3437:MET:HE1	1.96	0.47
1:C:3375:GLU:O	1:C:3379:LEU:HG	2.15	0.47
1:C:3969:ILE:CG2	1:C:3980:LEU:HD12	2.45	0.47
1:A:2261:SER:O	1:A:2264:GLY:N	2.48	0.47
1:A:2685:SER:O	1:A:2689:LYS:HG2	2.14	0.47
1:A:2872:GLN:O	1:A:2875:ALA:N	2.48	0.47
1:A:3105:LYS:CE	1:A:3128:ASN:HD22	2.27	0.47
1:A:4827:LEU:HD23	1:A:4831:THR:CG2	2.44	0.47
1:B:1449:TRP:C	1:B:1494:MET:HE2	2.40	0.47
1:B:4885:PHE:HE2	1:B:4897:ILE:HD11	1.74	0.47
1:D:554:LEU:HD11	1:D:1593:PRO:HD3	1.96	0.47
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.15	0.47
1:D:1505:GLN:C	1:D:1508:ARG:HB2	2.40	0.47
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2586:VAL:HG13	1:D:2607:LEU:HD13	1.96	0.47
1:D:2980:VAL:HG11	1:D:2986:VAL:HG12	1.97	0.47
1:D:3039:ILE:CG1	1:D:3071:LEU:HD11	2.44	0.47
1:D:3087:ILE:HG13	1:D:3088:VAL:N	2.30	0.47
1:D:3641:LEU:HD11	1:D:3649:ALA:CB	2.45	0.47
1:D:4001:MET:HG3	1:D:4057:MET:SD	2.54	0.47
1:C:943:ASP:N	1:C:943:ASP:OD1	2.47	0.47
1:C:1101:ARG:CZ	1:C:1114:GLU:OE2	2.63	0.47
1:C:1449:TRP:C	1:C:1494:MET:HE2	2.40	0.47
1:C:3093:ARG:O	1:C:3097:GLU:OE1	2.33	0.47
1:C:3270:ILE:HD12	1:C:3270:ILE:H	1.79	0.47
1:C:3562:LYS:HZ2	1:C:3565:GLY:N	2.13	0.47
1:A:1449:TRP:C	1:A:1494:MET:HE2	2.40	0.47
1:A:1453:VAL:HG13	1:A:1551:ALA:HB3	1.96	0.47
1:A:1658:ASP:N	1:A:1658:ASP:OD1	2.48	0.47
1:A:1858:ASP:O	1:A:1862:ILE:HG13	2.15	0.47
1:A:2267:MET:O	1:A:2330:ARG:NH2	2.48	0.47
1:A:3040:THR:HG21	1:A:3080:VAL:HG21	1.96	0.47
1:A:3634:ALA:O	1:A:3638:MET:HG3	2.15	0.47
1:A:4069:LYS:HE2	1:A:4129:ALA:HB1	1.96	0.47
1:A:4705:VAL:HG22	1:A:4711:PHE:CD1	2.49	0.47
1:B:299:LEU:HD23	1:B:376:ALA:O	2.15	0.47
1:B:955:LEU:HD23	1:B:969:PRO:HD3	1.96	0.47
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.15	0.47
1:B:1505:GLN:C	1:B:1508:ARG:HB2	2.40	0.47
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.15	0.47
1:B:2261:SER:O	1:B:2264:GLY:N	2.48	0.47
1:B:2611:CYS:CB	1:B:2643:LEU:HD11	2.45	0.47
1:B:2660:GLY:HA3	1:B:2666:VAL:HG12	1.97	0.47
1:B:4644:TRP:O	1:B:4648:LEU:HD13	2.15	0.47
1:B:4750:ILE:HA	1:B:4753:HIS:HD2	1.80	0.47
1:D:656:SER:HA	1:D:852:VAL:HG22	1.96	0.47
1:D:943:ASP:N	1:D:943:ASP:OD1	2.48	0.47
1:D:2325:PRO:O	1:D:2329:GLU:OE1	2.33	0.47
1:D:2430:ILE:HG21	1:D:2502:MET:HA	1.97	0.47
1:D:2930:LEU:O	1:D:2935:TYR:N	2.47	0.47
1:D:4705:VAL:HG22	1:D:4711:PHE:CD1	2.49	0.47
1:C:110:ARG:HD3	1:C:115:ARG:HE	1.79	0.47
1:C:299:LEU:HD23	1:C:376:ALA:O	2.15	0.47
1:C:414:PHE:CD2	1:C:418:LEU:HD11	2.49	0.47
1:C:1658:ASP:N	1:C:1658:ASP:OD1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1762:LEU:HD12	1:C:1863:LEU:HD13	1.97	0.47
1:C:2166:LEU:CD1	1:C:2206:THR:HG23	2.44	0.47
1:C:2243:SER:HB3	1:C:2246:ASN:CG	2.39	0.47
1:C:2524:VAL:HG23	1:C:2525:GLY:N	2.30	0.47
1:C:2952:GLU:HA	1:C:2957:PHE:CD2	2.50	0.47
1:C:3546:ASP:O	1:C:3549:VAL:HG22	2.14	0.47
1:C:3562:LYS:HZ2	1:C:3564:GLU:C	2.23	0.47
1:C:4170:ILE:H	1:C:4170:ILE:HD12	1.80	0.47
1:A:554:LEU:HD11	1:A:1593:PRO:HD3	1.96	0.46
1:A:1575:LEU:CD2	1:A:1579:MET:SD	3.02	0.46
1:A:2377:LEU:HD13	1:A:2469:ILE:HG13	1.96	0.46
1:A:2524:VAL:HG23	1:A:2525:GLY:N	2.30	0.46
1:A:2981:VAL:O	1:A:2985:ARG:NH1	2.48	0.46
1:A:3546:ASP:O	1:A:3549:VAL:HG22	2.14	0.46
1:A:3641:LEU:HD11	1:A:3649:ALA:CB	2.45	0.46
1:A:3702:VAL:HG11	1:A:3773:ARG:O	2.15	0.46
1:A:3733:CYS:SG	1:A:3770:LEU:HD12	2.55	0.46
1:A:4750:ILE:HA	1:A:4753:HIS:HD2	1.81	0.46
1:A:4866:SER:OG	1:A:4872:PRO:HA	2.16	0.46
2:E:19:GLY:C	2:E:49:MET:HE1	2.40	0.46
1:B:110:ARG:HD3	1:B:115:ARG:HE	1.79	0.46
1:B:891:TRP:HE1	1:B:902:ARG:CZ	2.28	0.46
1:B:1101:ARG:CZ	1:B:1114:GLU:OE2	2.63	0.46
1:B:1281:ASN:C	1:B:1281:ASN:OD1	2.57	0.46
1:B:2524:VAL:HG23	1:B:2525:GLY:N	2.30	0.46
1:B:3504:SER:O	1:B:3507:THR:OG1	2.26	0.46
1:B:4170:ILE:H	1:B:4170:ILE:HD12	1.80	0.46
1:D:476:SER:O	1:D:480:GLU:HG2	2.15	0.46
1:D:1101:ARG:CZ	1:D:1114:GLU:OE2	2.63	0.46
1:D:2469:ILE:HG21	1:D:2502:MET:HE3	1.97	0.46
1:D:2674:LEU:O	1:D:2677:LYS:HG3	2.16	0.46
1:D:3209:GLN:HG2	1:D:3210:LEU:HG	1.96	0.46
1:D:3378:GLN:NE2	1:D:3382:GLU:OE1	2.48	0.46
1:D:3508:SER:OG	1:D:3510:ILE:HG22	2.15	0.46
1:D:3603:LEU:O	1:D:3604:TYR:C	2.58	0.46
1:D:3969:ILE:CG2	1:D:3980:LEU:HD12	2.45	0.46
1:D:3971:GLY:N	1:D:3972:PRO:HA	2.30	0.46
1:D:4170:ILE:H	1:D:4170:ILE:HD12	1.80	0.46
1:D:4720:VAL:HA	1:D:4723:LYS:HE2	1.97	0.46
1:D:4876:CYS:HA	1:D:4882:CYS:HB2	1.96	0.46
1:C:632:LEU:O	1:C:634:GLN:NE2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1435:TYR:CE2	1:C:1550:PRO:HB3	2.50	0.46
1:C:2261:SER:O	1:C:2264:GLY:N	2.48	0.46
1:C:2267:MET:O	1:C:2330:ARG:NH2	2.48	0.46
1:C:2586:VAL:HG13	1:C:2607:LEU:HD13	1.96	0.46
1:C:2911:LEU:HD12	1:C:2912:THR:O	2.15	0.46
1:C:3039:ILE:CG1	1:C:3071:LEU:HD11	2.45	0.46
1:C:3100:SER:C	1:C:3104:GLU:OE1	2.59	0.46
1:C:3209:GLN:HG2	1:C:3210:LEU:HG	1.96	0.46
1:C:3277:LEU:CD2	1:C:3315:LEU:HD22	2.44	0.46
1:C:4001:MET:HG3	1:C:4057:MET:SD	2.54	0.46
1:C:4686:LEU:HG	1:C:4687:TYR:N	2.30	0.46
1:A:1842:LEU:HD13	1:A:1938:GLN:HB2	1.97	0.46
1:A:2292:GLU:HA	1:A:2295:LEU:HD12	1.96	0.46
1:A:2369[A]:ARG:NH2	1:A:2372:GLY:O	2.45	0.46
1:A:2469:ILE:HG21	1:A:2502:MET:HE3	1.97	0.46
1:A:3003:LEU:HB2	1:A:3004:PRO:HD3	1.97	0.46
1:A:3571:TRP:HE3	1:A:3575:LEU:HD23	1.81	0.46
2:G:79:ASP:OD1	2:G:80:TYR:HD2	1.98	0.46
2:F:25:HIS:CB	2:F:102:GLU:OE2	2.63	0.46
1:B:1962:ALA:O	1:B:1966:VAL:HG22	2.15	0.46
1:B:2823:ILE:HG23	1:B:2823:ILE:O	2.16	0.46
1:B:3087:ILE:HG13	1:B:3088:VAL:N	2.30	0.46
1:B:3270:ILE:H	1:B:3270:ILE:HD12	1.79	0.46
1:B:3640:PRO:O	1:B:3643:ASN:N	2.41	0.46
1:B:3641:LEU:HD11	1:B:3649:ALA:CB	2.45	0.46
1:B:3969:ILE:CG2	1:B:3980:LEU:HD12	2.45	0.46
1:D:173:SER:OG	1:D:176:SER:OG	1.88	0.46
1:D:514:SER:O	1:D:515:TRP:C	2.57	0.46
1:D:2872:GLN:O	1:D:2875:ALA:N	2.48	0.46
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.15	0.46
1:D:3315:LEU:O	1:D:3319:ILE:HG12	2.14	0.46
1:D:3634:ALA:O	1:D:3638:MET:HG3	2.15	0.46
1:D:3702:VAL:HG11	1:D:3773:ARG:O	2.15	0.46
1:D:4202:ARG:O	1:D:4206:GLU:OE1	2.34	0.46
1:D:4866:SER:OG	1:D:4872:PRO:HA	2.16	0.46
1:C:514:SER:O	1:C:515:TRP:C	2.57	0.46
1:C:829:TYR:O	1:C:840:VAL:N	2.42	0.46
1:C:955:LEU:HD23	1:C:969:PRO:HD3	1.96	0.46
1:C:1962:ALA:O	1:C:1966:VAL:HG22	2.16	0.46
1:C:2155:LEU:CD1	1:C:2185:ILE:HG23	2.44	0.46
1:C:2199:ARG:NE	1:C:2246:ASN:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3148:ALA:O	1:C:3151:GLN:NE2	2.49	0.46
1:C:3508:SER:OG	1:C:3510:ILE:HG22	2.15	0.46
1:A:299:LEU:HD23	1:A:376:ALA:O	2.15	0.46
1:A:476:SER:O	1:A:480:GLU:HG2	2.15	0.46
1:A:656:SER:HA	1:A:852:VAL:HG22	1.96	0.46
1:A:955:LEU:HD23	1:A:969:PRO:HD3	1.96	0.46
1:A:1024:TYR:O	1:A:1027:LEU:N	2.48	0.46
1:A:2916:LYS:HG3	1:A:2920:ARG:HB2	1.96	0.46
1:A:3148:ALA:O	1:A:3151:GLN:NE2	2.49	0.46
1:B:1983:ALA:HA	1:B:1986:MET:HE2	1.97	0.46
1:B:2872:GLN:O	1:B:2875:ALA:N	2.48	0.46
1:B:2971:GLN:O	1:B:2974:ILE:HG13	2.16	0.46
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.97	0.46
1:D:1453:VAL:HG13	1:D:1551:ALA:HB3	1.96	0.46
1:D:1762:LEU:HD12	1:D:1863:LEU:HD13	1.97	0.46
1:D:1842:LEU:HD13	1:D:1938:GLN:HB2	1.97	0.46
1:D:1962:ALA:O	1:D:1966:VAL:HG22	2.16	0.46
1:D:2267:MET:O	1:D:2330:ARG:NH2	2.48	0.46
1:D:2687:ALA:HB1	1:D:2966:TRP:HH2	1.75	0.46
1:D:3365:LEU:HD12	1:D:3408:LEU:HD21	1.98	0.46
1:D:3384:LYS:H	1:D:3387:ALA:HB3	1.78	0.46
1:D:4851:TYR:HD1	1:D:4916:PHE:CE1	2.34	0.46
1:C:1505:GLN:C	1:C:1508:ARG:HB2	2.40	0.46
1:C:1819:VAL:HG22	1:C:1926:LEU:HD21	1.96	0.46
1:C:1842:LEU:HD13	1:C:1938:GLN:HB2	1.97	0.46
1:C:2469:ILE:HG21	1:C:2502:MET:HE3	1.97	0.46
1:C:3641:LEU:HD11	1:C:3649:ALA:CB	2.45	0.46
1:A:647:ASN:OD1	1:A:821:LEU:HD12	2.16	0.46
1:A:1101:ARG:CZ	1:A:1114:GLU:OE2	2.63	0.46
1:A:3100:SER:C	1:A:3104:GLU:OE1	2.59	0.46
1:A:3504:SER:O	1:A:3507:THR:OG1	2.26	0.46
1:A:3971:GLY:N	1:A:3972:PRO:HA	2.30	0.46
2:H:19:GLY:C	2:H:49:MET:HE1	2.41	0.46
2:F:79:ASP:OD1	2:F:80:TYR:HD2	1.98	0.46
1:B:231:LEU:HD11	1:B:245:VAL:CG1	2.44	0.46
1:B:2894:LEU:O	1:B:2898:GLY:N	2.36	0.46
1:B:2952:GLU:HA	1:B:2957:PHE:CD2	2.50	0.46
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.15	0.46
1:B:3556:ASN:O	1:B:3559:LEU:N	2.37	0.46
1:B:3571:TRP:HE3	1:B:3575:LEU:HD23	1.81	0.46
1:B:3634:ALA:O	1:B:3638:MET:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4069:LYS:HE2	1:B:4129:ALA:HB1	1.96	0.46
1:B:4202:ARG:O	1:B:4206:GLU:OE1	2.34	0.46
1:D:2182:ILE:HB	1:D:2186:MET:HE1	1.97	0.46
1:D:2611:CYS:CB	1:D:2643:LEU:HD11	2.45	0.46
1:D:3093:ARG:O	1:D:3097:GLU:OE1	2.33	0.46
1:D:3546:ASP:O	1:D:3549:VAL:HG22	2.14	0.46
1:C:59:PRO:HB2	1:C:290:TYR:CZ	2.51	0.46
1:C:322:LYS:NZ	1:C:354:GLY:O	2.46	0.46
1:C:554:LEU:HD11	1:C:1593:PRO:HD3	1.96	0.46
1:C:891:TRP:HE1	1:C:902:ARG:CZ	2.28	0.46
1:C:1112:ASP:CG	1:C:1113:VAL:HG23	2.39	0.46
1:C:2674:LEU:O	1:C:2677:LYS:HG3	2.16	0.46
1:C:3003:LEU:HB2	1:C:3004:PRO:HD3	1.97	0.46
1:C:3320:LEU:HD12	1:C:3353:LEU:HD21	1.97	0.46
1:C:3459:VAL:HG11	1:C:3503:TYR:CG	2.51	0.46
1:C:4069:LYS:HE2	1:C:4129:ALA:HB1	1.96	0.46
1:C:4702:ASP:O	1:C:4705:VAL:HG12	2.14	0.46
1:C:4827:LEU:HD23	1:C:4831:THR:CG2	2.44	0.46
1:A:913:LEU:HD11	1:A:918:ARG:HG2	1.97	0.46
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.15	0.46
1:A:1786:LEU:CD2	2:E:85:THR:HG21	2.45	0.46
1:A:2255:SER:O	1:A:2258:LEU:N	2.48	0.46
1:A:2539:ALA:N	1:A:2593:ARG:HH21	2.14	0.46
1:A:2575:ARG:O	1:A:2579:VAL:HG23	2.16	0.46
1:A:2687:ALA:HB1	1:A:2966:TRP:HH2	1.76	0.46
1:A:3388:GLU:OE1	1:A:3388:GLU:N	2.46	0.46
1:A:4096:ALA:O	1:A:4100:GLN:HG2	2.16	0.46
1:A:4686:LEU:HG	1:A:4687:TYR:N	2.30	0.46
1:A:4720:VAL:HA	1:A:4723:LYS:HE2	1.97	0.46
2:E:1:GLY:N	2:E:80:TYR:CE2	2.84	0.46
2:H:79:ASP:OD1	2:H:80:TYR:HD2	1.98	0.46
2:G:21:THR:CA	2:G:49:MET:SD	3.03	0.46
2:F:21:THR:CA	2:F:49:MET:SD	3.03	0.46
2:F:55:VAL:CG1	2:F:59:TRP:HB2	2.46	0.46
1:B:1105:ALA:O	1:B:1189:LEU:N	2.41	0.46
1:B:1435:TYR:CE2	1:B:1550:PRO:HB3	2.50	0.46
1:B:2586:VAL:HG13	1:B:2607:LEU:HD13	1.96	0.46
1:B:2674:LEU:O	1:B:2677:LYS:HG3	2.16	0.46
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.16	0.46
1:B:2980:VAL:HG11	1:B:2986:VAL:HG12	1.97	0.46
1:B:2981:VAL:O	1:B:2985:ARG:NH1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3283:ARG:HG2	1:B:3287:ARG:NH2	2.28	0.46
1:B:3375:GLU:O	1:B:3379:LEU:HG	2.15	0.46
1:B:3733:CYS:SG	1:B:3770:LEU:HD12	2.55	0.46
1:B:3833:GLN:O	1:B:3837:GLN:OE1	2.34	0.46
1:B:4686:LEU:HG	1:B:4687:TYR:N	2.30	0.46
1:D:919:ASN:O	1:D:923:GLN:OE1	2.33	0.46
1:D:1008:SER:OG	1:D:1010:VAL:O	2.09	0.46
1:D:2199:ARG:NE	1:D:2246:ASN:OD1	2.49	0.46
1:D:2823:ILE:HG23	1:D:2823:ILE:O	2.16	0.46
1:D:3556:ASN:O	1:D:3559:LEU:N	2.37	0.46
1:D:4644:TRP:O	1:D:4648:LEU:HD13	2.15	0.46
1:C:985:VAL:HG11	1:C:1040:CYS:SG	2.56	0.46
1:C:1860:LYS:O	1:C:1864:LYS:HG2	2.16	0.46
1:C:2566:ALA:HB1	1:C:2613:TYR:HD2	1.81	0.46
1:C:2674:LEU:HA	1:C:2677:LYS:CE	2.41	0.46
1:C:2758:PHE:CD1	1:C:2929:PHE:CD2	3.04	0.46
1:C:2971:GLN:O	1:C:2974:ILE:HG13	2.16	0.46
1:C:3365:LEU:HD12	1:C:3408:LEU:HD21	1.98	0.46
1:C:4851:TYR:HD1	1:C:4916:PHE:CE1	2.34	0.46
1:A:281:ARG:NH2	1:A:309:THR:OG1	2.49	0.46
1:A:689:THR:HG21	1:A:776:LEU:HB2	1.98	0.46
1:A:717:ASP:O	1:A:737:LEU:HD12	2.16	0.46
1:A:891:TRP:HE1	1:A:902:ARG:CZ	2.28	0.46
1:A:1453:VAL:HG22	1:A:1551:ALA:HB2	1.98	0.46
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.15	0.46
1:A:2674:LEU:O	1:A:2677:LYS:HG3	2.16	0.46
1:A:3061:ALA:O	1:A:3064:VAL:HG22	2.16	0.46
1:A:3087:ILE:HG13	1:A:3088:VAL:N	2.30	0.46
1:A:3459:VAL:HG11	1:A:3503:TYR:CG	2.51	0.46
1:A:4170:ILE:HD12	1:A:4170:ILE:H	1.80	0.46
2:E:79:ASP:OD1	2:E:80:TYR:HD2	1.98	0.46
2:H:1:GLY:N	2:H:80:TYR:CE2	2.84	0.46
2:H:16:PRO:HG2	2:H:63:VAL:HG12	1.98	0.46
1:B:2205:GLU:O	1:B:2209:GLU:OE1	2.34	0.46
1:B:2267:MET:O	1:B:2330:ARG:NH2	2.48	0.46
1:B:2292:GLU:HA	1:B:2295:LEU:HD12	1.96	0.46
1:B:2972:GLU:OE2	1:B:2991:HIS:NE2	2.49	0.46
1:B:3093:ARG:O	1:B:3097:GLU:OE1	2.33	0.46
1:B:3283:ARG:NH1	1:B:3287:ARG:NH2	2.64	0.46
1:B:3459:VAL:HG11	1:B:3503:TYR:CG	2.51	0.46
1:B:3603:LEU:O	1:B:3604:TYR:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.16	0.46
1:D:59:PRO:HB2	1:D:290:TYR:CZ	2.51	0.46
1:D:322:LYS:HG3	1:D:322:LYS:O	2.16	0.46
1:D:647:ASN:OD1	1:D:821:LEU:HD12	2.16	0.46
1:D:689:THR:HG21	1:D:776:LEU:HB2	1.98	0.46
1:D:925:SER:O	1:D:929:LEU:HG	2.16	0.46
1:D:1435:TYR:CE2	1:D:1550:PRO:HB3	2.50	0.46
1:D:2205:GLU:O	1:D:2209:GLU:OE1	2.34	0.46
1:D:2566:ALA:HB1	1:D:2613:TYR:HD2	1.80	0.46
1:D:2575:ARG:NH1	1:D:2578:MET:HE1	2.30	0.46
1:D:2911:LEU:HD12	1:D:2912:THR:O	2.15	0.46
1:D:3061:ALA:O	1:D:3064:VAL:HG22	2.16	0.46
1:D:4096:ALA:O	1:D:4100:GLN:HG2	2.16	0.46
1:C:1453:VAL:HG13	1:C:1551:ALA:HB3	1.96	0.46
1:C:2110:TYR:O	1:C:2112:GLN:NE2	2.39	0.46
1:C:2430:ILE:HG21	1:C:2502:MET:HA	1.97	0.46
1:C:2660:GLY:HA3	1:C:2666:VAL:HG12	1.97	0.46
1:C:3346:VAL:HG11	1:C:3414:ARG:HB2	1.97	0.46
1:C:3401:LEU:O	1:C:3405:LEU:HG	2.16	0.46
1:C:4902:GLU:O	1:C:4913:ARG:CZ	2.62	0.46
1:A:574:VAL:HA	1:A:577:ILE:HG12	1.98	0.46
1:A:919:ASN:O	1:A:923:GLN:OE1	2.33	0.46
1:A:1112:ASP:CG	1:A:1113:VAL:HG23	2.39	0.46
1:A:1112:ASP:CG	1:A:1113:VAL:N	2.74	0.46
1:A:2003:GLN:HB2	1:A:3652:MET:HE3	1.98	0.46
1:A:2758:PHE:CD1	1:A:2929:PHE:CD2	3.04	0.46
1:A:2888:ARG:O	1:A:2892:GLN:HG2	2.16	0.46
1:A:2971:GLN:O	1:A:2974:ILE:HG13	2.16	0.46
1:A:5034:ASP:OD2	1:A:5034:ASP:N	2.49	0.46
2:H:49:MET:HB3	2:H:52:LYS:HE2	1.98	0.46
2:F:19:GLY:C	2:F:49:MET:HE1	2.40	0.46
1:B:261:ARG:NH1	1:B:263:GLU:OE2	2.49	0.46
1:B:647:ASN:OD1	1:B:821:LEU:HD12	2.16	0.46
1:B:1453:VAL:HG13	1:B:1551:ALA:HB3	1.96	0.46
1:B:2255:SER:O	1:B:2258:LEU:N	2.48	0.46
1:B:2962:GLN:O	1:B:2966:TRP:HD1	1.98	0.46
1:B:3061:ALA:O	1:B:3064:VAL:HG22	2.16	0.46
1:B:3508:SER:OG	1:B:3510:ILE:HG22	2.15	0.46
1:D:717:ASP:O	1:D:737:LEU:HD12	2.16	0.46
1:D:1112:ASP:CG	1:D:1113:VAL:HG23	2.39	0.46
1:D:1126:GLY:O	1:D:1129:GLY:N	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1259:ARG:NH2	1:D:1591:CYS:SG	2.89	0.46
1:D:1658:ASP:N	1:D:1658:ASP:OD1	2.48	0.46
1:D:1965:TYR:CE2	1:D:1969:LEU:HD11	2.51	0.46
1:D:2816:MET:HG2	1:D:2878:LEU:CD1	2.44	0.46
1:D:2972:GLU:OE2	1:D:2991:HIS:NE2	2.49	0.46
1:D:3100:SER:C	1:D:3104:GLU:OE1	2.59	0.46
1:D:3459:VAL:HG11	1:D:3503:TYR:CG	2.51	0.46
1:C:2003:GLN:HB2	1:C:3652:MET:HE3	1.98	0.46
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.15	0.46
1:C:2205:GLU:O	1:C:2209:GLU:OE1	2.34	0.46
1:C:2972:GLU:OE2	1:C:2991:HIS:NE2	2.49	0.46
1:C:3061:ALA:O	1:C:3064:VAL:HG22	2.16	0.46
1:C:3283:ARG:NH1	1:C:3287:ARG:NH2	2.64	0.46
1:C:3971:GLY:N	1:C:3972:PRO:HA	2.30	0.46
1:A:861:ILE:HG23	1:A:861:ILE:O	2.16	0.46
1:A:1508:ARG:HA	1:A:1508:ARG:HE	1.81	0.46
1:A:1847:THR:O	1:A:1851:MET:HG3	2.16	0.46
1:A:1860:LYS:O	1:A:1864:LYS:HG2	2.16	0.46
1:A:2575:ARG:NH1	1:A:2578:MET:HE1	2.31	0.46
1:A:2586:VAL:HG13	1:A:2607:LEU:HD13	1.96	0.46
1:A:2927:LEU:O	1:A:2931:GLN:HG2	2.16	0.46
1:A:3346:VAL:HG11	1:A:3414:ARG:HB2	1.98	0.46
1:A:4851:TYR:HD1	1:A:4916:PHE:CE1	2.34	0.46
1:A:4903:ASP:OD2	1:A:4905:ALA:HB2	2.16	0.46
2:H:21:THR:CA	2:H:49:MET:SD	3.03	0.46
1:B:894:GLY:HA3	1:B:903:LEU:HB3	1.98	0.46
1:B:1847:THR:O	1:B:1851:MET:HG3	2.16	0.46
1:B:2003:GLN:HB2	1:B:3652:MET:HE3	1.98	0.46
1:B:3320:LEU:HD12	1:B:3353:LEU:HD21	1.97	0.46
1:D:495:ASN:O	1:D:496:VAL:C	2.59	0.46
1:D:1112:ASP:CG	1:D:1113:VAL:N	2.74	0.46
1:D:1508:ARG:HA	1:D:1508:ARG:HE	1.81	0.46
1:D:2927:LEU:O	1:D:2931:GLN:HG2	2.16	0.46
1:D:2977:LEU:HD22	1:D:3056:LEU:CD2	2.45	0.46
1:D:3617:LYS:HG3	1:D:3618:ALA:N	2.31	0.46
1:D:4750:ILE:HA	1:D:4753:HIS:HD2	1.80	0.46
1:C:261:ARG:NH1	1:C:263:GLU:OE2	2.49	0.46
1:C:939:VAL:HG23	1:C:1053:ILE:HD13	1.98	0.46
1:C:1573:MET:HE3	1:C:1577:ALA:CB	2.46	0.46
1:C:1847:THR:O	1:C:1851:MET:HG3	2.16	0.46
1:C:2611:CYS:CB	1:C:2643:LEU:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2816:MET:HG2	1:C:2878:LEU:CD1	2.44	0.46
1:C:2888:ARG:O	1:C:2892:GLN:HG2	2.16	0.46
1:C:4750:ILE:HA	1:C:4753:HIS:HD2	1.81	0.46
1:A:581:ASN:OD1	1:A:582:HIS:N	2.49	0.46
1:A:1573:MET:HE3	1:A:1577:ALA:CB	2.46	0.46
1:A:1962:ALA:O	1:A:1966:VAL:HG22	2.16	0.46
1:A:2199:ARG:NE	1:A:2246:ASN:OD1	2.49	0.46
1:A:2205:GLU:O	1:A:2209:GLU:OE1	2.34	0.46
1:A:2536:LEU:O	1:A:2538:THR:N	2.48	0.46
1:A:2977:LEU:HD22	1:A:3056:LEU:CD2	2.45	0.46
1:A:4202:ARG:O	1:A:4206:GLU:OE1	2.34	0.46
2:E:4:VAL:HG22	2:E:74:LEU:CD2	2.46	0.46
2:E:21:THR:CA	2:E:49:MET:SD	3.03	0.46
2:G:19:GLY:C	2:G:49:MET:HE1	2.41	0.46
2:F:4:VAL:HG22	2:F:74:LEU:CD2	2.46	0.46
1:B:149:THR:HG23	1:B:174:VAL:HG22	1.98	0.46
1:B:360:ALA:O	1:B:361:ALA:CB	2.64	0.46
1:B:581:ASN:OD1	1:B:582:HIS:N	2.49	0.46
1:B:913:LEU:HD11	1:B:918:ARG:HG2	1.97	0.46
1:B:2715:VAL:HG22	1:B:2954:ARG:HA	1.98	0.46
1:B:2927:LEU:O	1:B:2931:GLN:HG2	2.16	0.46
1:B:3100:SER:C	1:B:3104:GLU:OE1	2.59	0.46
1:B:3617:LYS:HG3	1:B:3618:ALA:N	2.31	0.46
1:B:4851:TYR:HD1	1:B:4916:PHE:CE1	2.34	0.46
1:D:299:LEU:HD23	1:D:376:ALA:O	2.15	0.46
1:D:581:ASN:OD1	1:D:582:HIS:N	2.49	0.46
1:D:2003:GLN:HB2	1:D:3652:MET:HE3	1.98	0.46
1:D:2615:ARG:HD3	1:D:2618:MET:HE1	1.96	0.46
1:D:3277:LEU:HD21	1:D:3281:LEU:HD11	1.98	0.46
1:D:3283:ARG:HG2	1:D:3287:ARG:NH2	2.28	0.46
1:D:3337:ARG:HA	1:D:3340:VAL:HG22	1.98	0.46
1:D:3571:TRP:HE3	1:D:3575:LEU:HD23	1.81	0.46
1:D:3733:CYS:SG	1:D:3770:LEU:HD12	2.55	0.46
1:D:4903:ASP:OD2	1:D:4905:ALA:HB2	2.16	0.46
1:D:5036:LEU:O	1:D:5037:SER:CB	2.64	0.46
1:C:656:SER:HA	1:C:852:VAL:HG22	1.96	0.46
1:C:925:SER:O	1:C:929:LEU:HG	2.16	0.46
1:C:2369[A]:ARG:NH2	1:C:2372:GLY:O	2.45	0.46
1:C:2539:ALA:N	1:C:2593:ARG:HH21	2.14	0.46
1:C:2575:ARG:NH1	1:C:2578:MET:HE1	2.30	0.46
1:C:2879:ALA:HB1	1:C:2916:LYS:HZ2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2980:VAL:HG11	1:C:2986:VAL:HG12	1.97	0.46
1:C:3283:ARG:HG2	1:C:3287:ARG:NH2	2.28	0.46
1:C:3378:GLN:NE2	1:C:3382:GLU:OE1	2.48	0.46
1:C:3733:CYS:SG	1:C:3770:LEU:HD12	2.55	0.46
1:A:2182:ILE:HB	1:A:2186:MET:HE1	1.97	0.46
1:A:2601:ASP:OD1	1:A:2601:ASP:C	2.58	0.46
1:A:2696:TYR:O	1:A:2700:MET:SD	2.74	0.46
1:A:3296:LEU:C	1:A:3296:LEU:HD23	2.41	0.46
1:A:3833:GLN:O	1:A:3837:GLN:OE1	2.34	0.46
2:G:16:PRO:HG2	2:G:63:VAL:HG12	1.98	0.46
1:B:221:ARG:HH12	1:B:254:THR:HA	1.81	0.46
1:B:717:ASP:O	1:B:737:LEU:HD12	2.16	0.46
1:B:943:ASP:OD1	1:B:943:ASP:N	2.47	0.46
1:B:1286:MET:HB3	1:B:1288:PHE:CE1	2.51	0.46
1:B:1453:VAL:HG22	1:B:1551:ALA:HB2	1.98	0.46
1:B:2166:LEU:CD1	1:B:2206:THR:HG23	2.44	0.46
1:B:2182:ILE:HB	1:B:2186:MET:HE1	1.97	0.46
1:B:3378:GLN:NE2	1:B:3382:GLU:OE1	2.48	0.46
1:B:4052:SER:O	1:B:4053:SER:C	2.59	0.46
1:B:4060:LYS:HG3	1:B:4064:MET:SD	2.56	0.46
1:D:894:GLY:HA3	1:D:903:LEU:HB3	1.98	0.46
1:D:1426:ILE:O	1:D:1430:THR:OG1	2.27	0.46
1:D:1984:PHE:HB2	1:D:1991:THR:HG21	1.98	0.46
1:D:2539:ALA:N	1:D:2593:ARG:HH21	2.14	0.46
1:D:2601:ASP:OD1	1:D:2601:ASP:C	2.58	0.46
1:D:3040:THR:HG21	1:D:3080:VAL:HG21	1.96	0.46
1:C:221:ARG:HH12	1:C:254:THR:HA	1.81	0.46
1:C:231:LEU:HD11	1:C:245:VAL:CG1	2.44	0.46
1:C:281:ARG:NH2	1:C:309:THR:OG1	2.49	0.46
1:C:476:SER:O	1:C:480:GLU:HG2	2.15	0.46
1:C:894:GLY:HA3	1:C:903:LEU:HB3	1.98	0.46
1:C:1965:TYR:CE2	1:C:1969:LEU:HD11	2.51	0.46
1:C:2536:LEU:O	1:C:2538:THR:N	2.48	0.46
1:C:2715:VAL:HG22	1:C:2954:ARG:HA	1.98	0.46
1:C:2872:GLN:O	1:C:2875:ALA:N	2.48	0.46
1:C:2962:GLN:O	1:C:2966:TRP:HD1	1.98	0.46
1:C:3108:GLU:O	1:C:3111:ARG:HB2	2.16	0.46
1:C:3111:ARG:HH22	1:C:3175:LEU:HD12	1.81	0.46
1:C:3145:GLN:OE1	1:C:3145:GLN:HA	2.16	0.46
1:C:3354:LEU:CD1	1:C:3415:TYR:CE2	2.99	0.46
1:C:3603:LEU:O	1:C:3604:TYR:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2185:ILE:HG21	1:A:2203:MET:HE1	1.98	0.45
1:A:2325:PRO:O	1:A:2329:GLU:OE1	2.33	0.45
1:A:2452:ARG:NH1	1:B:144:GLU:OE2	2.48	0.45
1:A:2566:ALA:HB1	1:A:2613:TYR:HD2	1.81	0.45
1:A:3283:ARG:NH1	1:A:3287:ARG:NH2	2.64	0.45
1:A:3378:GLN:NE2	1:A:3382:GLU:OE1	2.48	0.45
1:A:3508:SER:OG	1:A:3510:ILE:HG22	2.15	0.45
1:A:3702:VAL:HA	1:A:3778:MET:HE1	1.98	0.45
1:A:4052:SER:O	1:A:4053:SER:C	2.59	0.45
1:A:4060:LYS:HG3	1:A:4064:MET:SD	2.56	0.45
1:B:554:LEU:HD11	1:B:1593:PRO:HD3	1.96	0.45
1:B:574:VAL:HA	1:B:577:ILE:HG12	1.98	0.45
1:B:708:GLY:N	1:B:713:SER:OG	2.43	0.45
1:B:861:ILE:HG23	1:B:861:ILE:O	2.16	0.45
1:B:939:VAL:HG23	1:B:1053:ILE:HD13	1.98	0.45
1:B:1069:TRP:CZ3	1:B:1112:ASP:CB	3.00	0.45
1:B:1508:ARG:HA	1:B:1508:ARG:HE	1.81	0.45
1:B:2185:ILE:HG21	1:B:2203:MET:HE1	1.98	0.45
1:B:2696:TYR:O	1:B:2700:MET:SD	2.74	0.45
1:D:144:GLU:OE2	1:C:2452:ARG:NH1	2.49	0.45
1:D:293:LEU:HD13	1:D:378:LEU:HD13	1.99	0.45
1:D:2255:SER:O	1:D:2258:LEU:N	2.48	0.45
1:D:2971:GLN:O	1:D:2974:ILE:HG13	2.16	0.45
1:D:3003:LEU:HB2	1:D:3004:PRO:HD3	1.97	0.45
1:C:682:LEU:HD13	1:C:787:VAL:HG21	1.98	0.45
1:C:717:ASP:O	1:C:737:LEU:HD12	2.16	0.45
1:C:2182:ILE:HB	1:C:2186:MET:HE1	1.97	0.45
1:C:3157:ILE:HG22	1:C:3162:GLN:HG3	1.99	0.45
1:C:3634:ALA:O	1:C:3638:MET:HG3	2.15	0.45
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.49	0.45
1:C:4157:ASP:C	1:C:4161:ARG:CZ	2.89	0.45
1:A:925:SER:O	1:A:929:LEU:HG	2.16	0.45
1:A:1230:MET:CE	1:A:1234:VAL:HG22	2.46	0.45
1:A:1286:MET:HB3	1:A:1288:PHE:CE1	2.51	0.45
1:A:1965:TYR:CE2	1:A:1969:LEU:HD11	2.51	0.45
1:A:2823:ILE:HG23	1:A:2823:ILE:O	2.16	0.45
1:A:4580:TYR:CE2	1:A:4630:TYR:HB3	2.52	0.45
2:G:4:VAL:HG22	2:G:74:LEU:CD2	2.46	0.45
1:B:1573:MET:HE3	1:B:1577:ALA:CB	2.46	0.45
1:B:2575:ARG:NH1	1:B:2578:MET:HE1	2.31	0.45
1:B:2575:ARG:O	1:B:2579:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2793:PRO:O	1:B:2797:PHE:N	2.45	0.45
1:B:3337:ARG:HA	1:B:3340:VAL:HG22	1.98	0.45
1:B:3401:LEU:O	1:B:3405:LEU:HG	2.16	0.45
1:B:4866:SER:OG	1:B:4872:PRO:HA	2.16	0.45
1:D:360:ALA:O	1:D:361:ALA:CB	2.64	0.45
1:D:985:VAL:HG11	1:D:1040:CYS:SG	2.56	0.45
1:D:1573:MET:HE3	1:D:1577:ALA:CB	2.46	0.45
1:D:1983:ALA:HA	1:D:1986:MET:HE2	1.97	0.45
1:D:2261:SER:O	1:D:2264:GLY:N	2.48	0.45
1:D:3108:GLU:O	1:D:3111:ARG:HB2	2.16	0.45
1:D:3375:GLU:O	1:D:3379:LEU:HG	2.15	0.45
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.50	0.45
1:D:4052:SER:O	1:D:4053:SER:C	2.59	0.45
1:C:149:THR:HG23	1:C:174:VAL:HG22	1.98	0.45
1:C:647:ASN:OD1	1:C:821:LEU:HD12	2.16	0.45
1:C:1286:MET:HB3	1:C:1288:PHE:CE1	2.51	0.45
1:C:1508:ARG:HA	1:C:1508:ARG:HE	1.81	0.45
1:C:2927:LEU:O	1:C:2931:GLN:HG2	2.16	0.45
1:C:4060:LYS:HG3	1:C:4064:MET:SD	2.56	0.45
1:C:4202:ARG:O	1:C:4206:GLU:OE1	2.34	0.45
1:A:321:GLU:OE2	1:A:323:LEU:HD22	2.17	0.45
1:A:909:ASN:ND2	1:A:965:TYR:CD2	2.78	0.45
1:A:1259:ARG:NH2	1:A:1591:CYS:SG	2.89	0.45
1:A:2211:MET:CE	1:A:2232:CYS:HB2	2.47	0.45
2:E:55:VAL:CG1	2:E:59:TRP:HB2	2.46	0.45
2:H:4:VAL:HG22	2:H:74:LEU:CD2	2.46	0.45
2:G:55:VAL:CG1	2:G:59:TRP:HB2	2.46	0.45
1:B:322:LYS:O	1:B:322:LYS:HG3	2.16	0.45
1:B:985:VAL:HG11	1:B:1040:CYS:SG	2.56	0.45
1:B:1858:ASP:O	1:B:1862:ILE:HG13	2.15	0.45
1:B:2199:ARG:NE	1:B:2246:ASN:OD1	2.49	0.45
1:B:2579:VAL:O	1:B:2583:LEU:HG	2.17	0.45
1:B:2668:SER:O	1:B:2669:GLU:CG	2.59	0.45
1:B:3145:GLN:OE1	1:B:3145:GLN:HA	2.17	0.45
1:B:3148:ALA:O	1:B:3151:GLN:NE2	2.49	0.45
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.50	0.45
1:D:231:LEU:HD11	1:D:245:VAL:CG1	2.44	0.45
1:D:682:LEU:HD13	1:D:787:VAL:HG21	1.98	0.45
1:D:1230:MET:CE	1:D:1234:VAL:HG22	2.46	0.45
1:D:1453:VAL:HG22	1:D:1551:ALA:HB2	1.98	0.45
1:D:3354:LEU:CD1	1:D:3415:TYR:CE2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3702:VAL:HA	1:D:3778:MET:HE1	1.98	0.45
1:D:4027:LEU:CD2	1:D:4044:MET:HE2	2.41	0.45
1:D:5034:ASP:OD2	1:D:5034:ASP:N	2.49	0.45
1:C:293:LEU:HD13	1:C:378:LEU:HD13	1.99	0.45
1:C:321:GLU:OE2	1:C:323:LEU:HD22	2.17	0.45
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.15	0.45
1:C:3524:MET:HG2	1:C:3595:ARG:CD	2.46	0.45
1:C:4866:SER:OG	1:C:4872:PRO:HA	2.16	0.45
1:A:322:LYS:HG3	1:A:322:LYS:O	2.16	0.45
1:A:2715:VAL:HG22	1:A:2954:ARG:HA	1.98	0.45
1:A:3096:PHE:CD2	1:A:3161:VAL:HG12	2.52	0.45
1:A:3556:ASN:O	1:A:3559:LEU:N	2.37	0.45
2:E:49:MET:HB3	2:E:52:LYS:HE2	1.98	0.45
1:B:281:ARG:NH2	1:B:309:THR:OG1	2.49	0.45
1:B:1505:GLN:HA	1:B:1508:ARG:HB2	1.99	0.45
1:B:1792:ALA:HA	1:B:2173:GLN:HG2	1.98	0.45
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.16	0.45
1:B:1965:TYR:CE2	1:B:1969:LEU:HD11	2.51	0.45
1:B:2469:ILE:HG21	1:B:2502:MET:HE3	1.97	0.45
1:B:2539:ALA:N	1:B:2593:ARG:HH21	2.14	0.45
1:B:2566:ALA:HB1	1:B:2613:TYR:HD2	1.81	0.45
1:B:3157:ILE:HG22	1:B:3162:GLN:HG3	1.99	0.45
1:B:4580:TYR:CE2	1:B:4630:TYR:HB3	2.52	0.45
1:B:4680:LYS:O	1:B:4685:GLY:N	2.47	0.45
1:D:261:ARG:NH1	1:D:263:GLU:OE2	2.49	0.45
1:D:1229:ASN:O	1:D:1827:ARG:HB2	2.17	0.45
1:D:1847:THR:O	1:D:1851:MET:HG3	2.16	0.45
1:D:2575:ARG:O	1:D:2579:VAL:HG23	2.16	0.45
1:D:2715:VAL:HG22	1:D:2954:ARG:HA	1.98	0.45
1:D:3283:ARG:NH1	1:D:3287:ARG:NH2	2.64	0.45
1:D:4731:ILE:HG23	1:D:4732:PHE:N	2.32	0.45
1:D:4778:TRP:O	1:D:4782:VAL:HG23	2.17	0.45
1:C:231:LEU:HD13	1:C:247:TYR:HE1	1.81	0.45
1:C:1984:PHE:HB2	1:C:1991:THR:HG21	1.98	0.45
1:C:2325:PRO:O	1:C:2329:GLU:OE1	2.33	0.45
1:C:2880:GLU:HA	1:C:2883:HIS:HE1	1.77	0.45
1:C:3296:LEU:HD23	1:C:3296:LEU:C	2.41	0.45
1:C:4096:ALA:O	1:C:4100:GLN:HG2	2.16	0.45
1:C:5034:ASP:N	1:C:5034:ASP:OD2	2.49	0.45
1:A:261:ARG:NH1	1:A:263:GLU:OE2	2.49	0.45
1:A:495:ASN:O	1:A:496:VAL:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:745:SER:OG	1:A:758:ARG:HB2	2.17	0.45
1:A:1069:TRP:CZ3	1:A:1112:ASP:CB	3.00	0.45
1:A:1229:ASN:O	1:A:1827:ARG:HB2	2.17	0.45
1:A:1792:ALA:HA	1:A:2173:GLN:HG2	1.98	0.45
1:A:2579:VAL:O	1:A:2583:LEU:HG	2.17	0.45
1:A:2972:GLU:OE2	1:A:2991:HIS:NE2	2.49	0.45
1:A:3725:TYR:HA	1:A:3728:ILE:HD12	1.99	0.45
1:A:3842:LEU:HG	1:A:3875:MET:SD	2.57	0.45
2:G:1:GLY:N	2:G:80:TYR:CE2	2.84	0.45
2:G:94:HIS:ND1	2:G:94:HIS:N	2.64	0.45
2:F:1:GLY:N	2:F:80:TYR:CE2	2.84	0.45
1:B:59:PRO:HB2	1:B:290:TYR:CZ	2.51	0.45
1:B:404:ILE:HG23	1:B:483:MET:HE2	1.98	0.45
1:B:899:ASP:O	1:B:902:ARG:NH2	2.44	0.45
1:B:925:SER:O	1:B:929:LEU:HG	2.16	0.45
1:B:1259:ARG:NH2	1:B:1591:CYS:SG	2.89	0.45
1:B:2858:GLN:OE1	1:B:2932:MET:HE1	2.17	0.45
1:D:829:TYR:O	1:D:840:VAL:N	2.42	0.45
1:D:2110:TYR:O	1:D:2112:GLN:NE2	2.39	0.45
1:D:2206:THR:O	1:D:2210:VAL:HG23	2.17	0.45
1:D:2696:TYR:O	1:D:2700:MET:SD	2.74	0.45
1:D:2758:PHE:CD1	1:D:2929:PHE:CD2	3.04	0.45
1:D:3096:PHE:CD2	1:D:3161:VAL:HG12	2.52	0.45
1:D:3148:ALA:O	1:D:3151:GLN:NE2	2.49	0.45
1:D:3296:LEU:C	1:D:3296:LEU:HD23	2.41	0.45
1:D:3346:VAL:HG11	1:D:3414:ARG:HB2	1.98	0.45
1:D:3401:LEU:O	1:D:3405:LEU:HG	2.16	0.45
1:D:4060:LYS:HG3	1:D:4064:MET:SD	2.56	0.45
1:C:360:ALA:O	1:C:361:ALA:CB	2.64	0.45
1:C:581:ASN:OD1	1:C:582:HIS:N	2.49	0.45
1:C:672:VAL:O	1:C:680:THR:OG1	2.25	0.45
1:C:1259:ARG:NH2	1:C:1591:CYS:SG	2.89	0.45
1:C:1286:MET:CE	1:C:1555:LEU:HD12	2.46	0.45
1:C:1861:GLN:HB3	1:C:1865:MET:HE3	1.99	0.45
1:C:2377:LEU:HD13	1:C:2469:ILE:HG13	1.96	0.45
1:C:2575:ARG:O	1:C:2579:VAL:HG23	2.16	0.45
1:C:3617:LYS:HG3	1:C:3618:ALA:N	2.31	0.45
1:C:3833:GLN:O	1:C:3837:GLN:OE1	2.34	0.45
1:C:4052:SER:O	1:C:4053:SER:C	2.59	0.45
1:A:149:THR:HG23	1:A:174:VAL:HG22	1.98	0.45
1:A:1762:LEU:HD12	1:A:1863:LEU:HD13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3277:LEU:HD21	1:A:3281:LEU:HD11	1.98	0.45
1:A:3375:GLU:O	1:A:3379:LEU:HG	2.15	0.45
2:H:55:VAL:CG1	2:H:59:TRP:HB2	2.46	0.45
2:H:94:HIS:ND1	2:H:94:HIS:N	2.64	0.45
2:G:25:HIS:CB	2:G:102:GLU:OE2	2.63	0.45
2:F:49:MET:CG	2:F:52:LYS:HZ1	2.29	0.45
1:B:206:CYS:HA	1:B:334:MET:HE1	1.99	0.45
1:B:476:SER:O	1:B:480:GLU:HG2	2.15	0.45
1:B:1229:ASN:O	1:B:1827:ARG:HB2	2.17	0.45
1:B:1280:GLN:O	1:B:1281:ASN:OD1	2.35	0.45
1:B:1842:LEU:HD13	1:B:1938:GLN:HB2	1.97	0.45
1:B:1984:PHE:HB2	1:B:1991:THR:HG21	1.98	0.45
1:B:2333:ASP:OD1	1:B:2334:PHE:N	2.50	0.45
1:B:2758:PHE:CD1	1:B:2929:PHE:CD2	3.04	0.45
1:B:2879:ALA:HB1	1:B:2916:LYS:HZ2	1.81	0.45
1:B:3062:PRO:HA	1:B:3065:VAL:HG12	1.99	0.45
1:B:3108:GLU:O	1:B:3111:ARG:HB2	2.16	0.45
1:B:3346:VAL:HG11	1:B:3414:ARG:HB2	1.97	0.45
1:B:3365:LEU:HD12	1:B:3408:LEU:HD21	1.98	0.45
1:B:3969:ILE:HD11	1:B:4029:SER:HB2	1.99	0.45
1:B:4157:ASP:C	1:B:4161:ARG:CZ	2.89	0.45
1:B:4903:ASP:OD2	1:B:4905:ALA:HB2	2.16	0.45
1:B:5036:LEU:O	1:B:5037:SER:CB	2.64	0.45
1:D:281:ARG:NH2	1:D:309:THR:OG1	2.49	0.45
1:D:1431:THR:HG21	1:D:1523:ALA:H	1.82	0.45
1:D:2211:MET:CE	1:D:2232:CYS:HB2	2.47	0.45
1:D:3157:ILE:HG22	1:D:3162:GLN:HG3	1.99	0.45
1:C:745:SER:OG	1:C:758:ARG:HB2	2.17	0.45
1:C:1230:MET:CE	1:C:1234:VAL:HG22	2.46	0.45
1:C:1505:GLN:HA	1:C:1508:ARG:HB2	1.99	0.45
1:C:1983:ALA:HA	1:C:1986:MET:HE2	1.97	0.45
1:C:2886:TRP:NE1	1:C:2890:LYS:HZ1	2.14	0.45
1:C:3277:LEU:HD21	1:C:3281:LEU:HD11	1.98	0.45
1:C:4731:ILE:HG23	1:C:4732:PHE:N	2.32	0.45
1:C:4903:ASP:OD2	1:C:4905:ALA:HB2	2.16	0.45
1:A:182:LEU:HD12	1:A:190:GLN:O	2.17	0.45
1:A:939:VAL:HG23	1:A:1053:ILE:HD13	1.98	0.45
1:A:1280:GLN:O	1:A:1281:ASN:OD1	2.35	0.45
1:A:1431:THR:HG21	1:A:1523:ALA:H	1.82	0.45
1:A:1505:GLN:HA	1:A:1508:ARG:HB2	1.99	0.45
1:A:1983:ALA:HA	1:A:1986:MET:HE2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3108:GLU:O	1:A:3111:ARG:HB2	2.16	0.45
1:A:4157:ASP:C	1:A:4161:ARG:CZ	2.89	0.45
1:A:5032:TYR:O	1:A:5036:LEU:N	2.37	0.45
1:B:1171:SER:HG	1:B:1175:SER:HG	1.58	0.45
1:B:3016:TYR:CZ	1:B:3031:ALA:HA	2.52	0.45
1:B:3096:PHE:CD2	1:B:3161:VAL:HG12	2.52	0.45
1:B:3725:TYR:HA	1:B:3728:ILE:HD12	1.99	0.45
1:B:3842:LEU:HG	1:B:3875:MET:SD	2.57	0.45
1:B:4157:ASP:H	1:B:4161:ARG:NH1	2.09	0.45
1:D:708:GLY:N	1:D:713:SER:OG	2.43	0.45
1:D:1860:LYS:O	1:D:1864:LYS:HG2	2.16	0.45
1:D:2333:ASP:OD1	1:D:2334:PHE:N	2.50	0.45
1:C:206:CYS:HA	1:C:334:MET:HE1	1.99	0.45
1:C:472:ARG:NE	1:C:532:GLY:O	2.48	0.45
1:C:1079:LYS:HA	1:C:1189:LEU:HD11	1.99	0.45
1:C:1116:GLY:O	1:C:1134:LEU:N	2.50	0.45
1:C:2823:ILE:O	1:C:2823:ILE:HG23	2.16	0.45
1:C:3941:ASP:N	1:C:3941:ASP:OD1	2.49	0.45
1:A:1116:GLY:O	1:A:1134:LEU:N	2.50	0.45
1:A:2129:ASP:O	1:A:2133:GLU:OE1	2.35	0.45
1:A:3696:ASP:O	1:A:3700:GLN:HG3	2.17	0.45
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.99	0.45
2:E:25:HIS:CB	2:E:102:GLU:OE2	2.63	0.45
2:F:94:HIS:ND1	2:F:94:HIS:N	2.64	0.45
1:B:689:THR:HG21	1:B:776:LEU:HB2	1.98	0.45
1:B:1027:LEU:HD21	1:B:1031:THR:HG22	1.98	0.45
1:B:1230:MET:CE	1:B:1234:VAL:HG22	2.46	0.45
1:B:1527:MET:HE3	1:B:1540:PHE:CB	2.47	0.45
1:B:1762:LEU:HD12	1:B:1863:LEU:HD13	1.97	0.45
1:B:1835:GLU:O	1:B:1839:VAL:HG23	2.17	0.45
1:B:2452:ARG:NH1	1:C:144:GLU:OE2	2.50	0.45
1:B:3524:MET:HG2	1:B:3595:ARG:CD	2.46	0.45
1:B:5034:ASP:OD2	1:B:5034:ASP:N	2.49	0.45
1:D:206:CYS:HA	1:D:334:MET:HE1	1.99	0.45
1:D:472:ARG:NE	1:D:532:GLY:O	2.48	0.45
1:D:1116:GLY:O	1:D:1134:LEU:N	2.50	0.45
1:D:1505:GLN:HA	1:D:1508:ARG:HB2	1.99	0.45
1:D:1792:ALA:HA	1:D:2173:GLN:HG2	1.98	0.45
1:D:2090:LYS:NZ	1:D:2092:GLN:OE1	2.45	0.45
1:D:2674:LEU:HD23	1:D:2677:LYS:CE	2.47	0.45
1:D:3696:ASP:O	1:D:3700:GLN:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4580:TYR:CE2	1:D:4630:TYR:HB3	2.52	0.45
1:C:2579:VAL:O	1:C:2583:LEU:HG	2.17	0.45
1:C:2674:LEU:HD23	1:C:2677:LYS:CE	2.47	0.45
1:C:2676:ARG:O	1:C:2679:PHE:HB3	2.17	0.45
1:C:4124:ASN:OD1	1:C:4127:GLU:HG3	2.17	0.45
1:C:4720:VAL:HA	1:C:4723:LYS:HE2	1.97	0.45
1:C:4797:VAL:O	1:C:4801:LEU:HD23	2.17	0.45
1:A:206:CYS:HA	1:A:334:MET:HE1	1.99	0.45
1:A:221:ARG:HH12	1:A:254:THR:HA	1.81	0.45
1:A:360:ALA:O	1:A:361:ALA:CB	2.64	0.45
1:A:682:LEU:HD13	1:A:787:VAL:HG21	1.98	0.45
1:A:894:GLY:HA3	1:A:903:LEU:HB3	1.98	0.45
1:A:2668:SER:O	1:A:2669:GLU:CG	2.59	0.45
1:A:3401:LEU:O	1:A:3405:LEU:HG	2.16	0.45
1:A:3992:PHE:HB3	1:A:3996:PHE:CE2	2.52	0.45
1:A:4731:ILE:HG23	1:A:4732:PHE:N	2.32	0.45
2:E:16:PRO:HG2	2:E:63:VAL:HG12	1.98	0.45
2:G:49:MET:CG	2:G:52:LYS:HZ1	2.29	0.45
1:B:745:SER:OG	1:B:758:ARG:HB2	2.17	0.45
1:B:2014:ASP:O	1:B:2015:GLU:HB3	2.17	0.45
1:B:2676:ARG:O	1:B:2679:PHE:HB3	2.17	0.45
1:B:2886:TRP:NE1	1:B:2890:LYS:HZ1	2.15	0.45
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.99	0.45
1:D:224:HIS:CD2	1:D:247:TYR:CE2	3.05	0.45
1:D:1861:GLN:HB3	1:D:1865:MET:HE3	1.99	0.45
1:D:3016:TYR:CZ	1:D:3031:ALA:HA	2.52	0.45
1:D:3145:GLN:OE1	1:D:3145:GLN:HA	2.16	0.45
1:C:280:LEU:HD12	1:C:281:ARG:H	1.82	0.45
1:C:732:SER:O	1:C:735:GLN:HG3	2.17	0.45
1:C:871:ARG:NH1	1:C:922:LEU:HD12	2.32	0.45
1:C:1792:ALA:HA	1:C:2173:GLN:HG2	1.98	0.45
1:C:1835:GLU:O	1:C:1839:VAL:HG23	2.17	0.45
1:C:2211:MET:CE	1:C:2232:CYS:HB2	2.47	0.45
1:C:3062:PRO:HA	1:C:3065:VAL:HG12	1.99	0.45
1:C:3571:TRP:HE3	1:C:3575:LEU:HD23	1.81	0.45
1:C:3802:ILE:HD12	1:C:3886:ARG:CG	2.47	0.45
1:C:3992:PHE:HB3	1:C:3996:PHE:CE2	2.52	0.45
1:C:4580:TYR:CE2	1:C:4630:TYR:HB3	2.52	0.45
1:A:59:PRO:HB2	1:A:290:TYR:CZ	2.51	0.45
1:A:871:ARG:NH1	1:A:922:LEU:HD12	2.32	0.45
1:A:3145:GLN:OE1	1:A:3145:GLN:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3337:ARG:HA	1:A:3340:VAL:HG22	1.98	0.45
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.50	0.45
1:A:3802:ILE:HD12	1:A:3886:ARG:CG	2.47	0.45
1:A:4797:VAL:O	1:A:4801:LEU:HD23	2.17	0.45
1:A:4901:ILE:HG13	1:A:4913:ARG:NH2	2.32	0.45
2:E:94:HIS:ND1	2:E:94:HIS:N	2.64	0.45
2:F:2:VAL:HG22	2:F:58:GLY:HA2	1.99	0.45
2:F:16:PRO:HG2	2:F:63:VAL:HG12	1.98	0.45
2:F:49:MET:HB3	2:F:52:LYS:HE2	1.98	0.45
1:B:321:GLU:OE2	1:B:323:LEU:HD22	2.17	0.45
1:B:732:SER:O	1:B:735:GLN:HG3	2.17	0.45
1:B:2302:LEU:HD23	1:B:2302:LEU:C	2.42	0.45
1:B:3262:ARG:O	1:B:3266:MET:SD	2.75	0.45
1:B:3802:ILE:HD12	1:B:3886:ARG:CG	2.47	0.45
1:B:4162:ASN:OD1	1:B:4162:ASN:C	2.60	0.45
1:B:4720:VAL:HA	1:B:4723:LYS:HE2	1.97	0.45
1:D:221:ARG:HH12	1:D:254:THR:HA	1.81	0.45
1:D:745:SER:OG	1:D:758:ARG:HB2	2.17	0.45
1:D:768:PHE:CE1	1:D:1474:VAL:HG22	2.52	0.45
1:D:1027:LEU:HD21	1:D:1031:THR:HG22	1.98	0.45
1:D:1069:TRP:CZ3	1:D:1112:ASP:CB	3.00	0.45
1:D:1100:MET:HE1	1:D:1199:VAL:O	2.17	0.45
1:D:1280:GLN:O	1:D:1281:ASN:OD1	2.35	0.45
1:D:2376:LEU:O	1:D:2380:ILE:HG12	2.17	0.45
1:D:3388:GLU:OE1	1:D:3388:GLU:N	2.46	0.45
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.53	0.45
1:D:3833:GLN:O	1:D:3837:GLN:OE1	2.34	0.45
1:D:3842:LEU:HG	1:D:3875:MET:SD	2.57	0.45
1:D:4157:ASP:C	1:D:4161:ARG:CZ	2.89	0.45
1:C:213:TYR:CD1	1:C:337:PRO:HB2	2.52	0.45
1:C:322:LYS:HG3	1:C:322:LYS:O	2.16	0.45
1:C:1069:TRP:CZ3	1:C:1112:ASP:CB	3.00	0.45
1:C:2128:TYR:HB2	1:C:3673:MET:CE	2.47	0.45
1:C:2858:GLN:OE1	1:C:2932:MET:HE1	2.17	0.45
1:C:3016:TYR:CZ	1:C:3031:ALA:HA	2.52	0.45
1:C:3337:ARG:HA	1:C:3340:VAL:HG22	1.98	0.45
1:C:3696:ASP:O	1:C:3700:GLN:HG3	2.17	0.45
1:C:4901:ILE:HG13	1:C:4913:ARG:NH2	2.32	0.45
1:A:1079:LYS:HA	1:A:1189:LEU:HD11	1.99	0.44
1:A:1984:PHE:HB2	1:A:1991:THR:HG21	1.98	0.44
1:A:2161:GLN:O	1:A:2165:LEU:HD13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2354:VAL:O	1:A:2358:ILE:HG23	2.17	0.44
1:A:2676:ARG:O	1:A:2679:PHE:HB3	2.17	0.44
1:A:2930:LEU:O	1:A:2935:TYR:N	2.47	0.44
1:A:4573:ILE:HG23	1:A:4643:LEU:HD11	1.99	0.44
2:F:55:VAL:HG12	2:F:59:TRP:HB2	1.99	0.44
1:B:213:TYR:CD1	1:B:337:PRO:HB2	2.52	0.44
1:B:224:HIS:CD2	1:B:247:TYR:CE2	3.05	0.44
1:B:1079:LYS:HA	1:B:1189:LEU:HD11	1.99	0.44
1:B:2155:LEU:HD21	1:B:2188:ASN:CG	2.43	0.44
1:B:2326:CYS:SG	1:B:2327:GLY:N	2.90	0.44
1:B:2354:VAL:O	1:B:2358:ILE:HG23	2.17	0.44
1:B:3111:ARG:HH22	1:B:3175:LEU:HD12	1.82	0.44
1:B:4573:ILE:HG23	1:B:4643:LEU:HD11	1.99	0.44
1:B:4944:ARG:NE	1:C:4938:ASP:OD2	2.45	0.44
1:D:1286:MET:HB3	1:D:1288:PHE:CE1	2.51	0.44
1:D:1527:MET:HE3	1:D:1540:PHE:CB	2.47	0.44
1:D:1930:LYS:C	1:D:1931:LEU:HG	2.43	0.44
1:D:2354:VAL:O	1:D:2358:ILE:HG23	2.17	0.44
1:D:2579:VAL:O	1:D:2583:LEU:HG	2.17	0.44
1:D:2676:ARG:O	1:D:2679:PHE:HB3	2.17	0.44
1:D:2888:ARG:O	1:D:2892:GLN:HG2	2.16	0.44
1:D:3262:ARG:O	1:D:3266:MET:SD	2.75	0.44
1:C:182:LEU:HD12	1:C:190:GLN:O	2.17	0.44
1:C:404:ILE:HG23	1:C:483:MET:HE2	1.98	0.44
1:C:574:VAL:HA	1:C:577:ILE:HG12	1.98	0.44
1:C:1100:MET:HE1	1:C:1199:VAL:O	2.17	0.44
1:C:1229:ASN:O	1:C:1827:ARG:HB2	2.17	0.44
1:C:1453:VAL:HG22	1:C:1551:ALA:HB2	1.97	0.44
1:C:2376:LEU:O	1:C:2380:ILE:HG12	2.17	0.44
1:C:4162:ASN:OD1	1:C:4162:ASN:C	2.60	0.44
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.17	0.44
1:A:36:CYS:SG	1:A:65:CYS:HB3	2.58	0.44
1:A:985:VAL:HG11	1:A:1040:CYS:SG	2.56	0.44
1:A:1100:MET:HE1	1:A:1199:VAL:O	2.17	0.44
1:A:2155:LEU:HD21	1:A:2188:ASN:CG	2.43	0.44
1:A:2302:LEU:HD23	1:A:2302:LEU:C	2.42	0.44
1:A:2333:ASP:OD1	1:A:2334:PHE:N	2.50	0.44
1:A:3016:TYR:CZ	1:A:3031:ALA:HA	2.52	0.44
1:A:3111:ARG:HH22	1:A:3175:LEU:HD12	1.81	0.44
1:A:3524:MET:HG2	1:A:3595:ARG:CD	2.46	0.44
1:A:4218:ILE:O	1:A:4222:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:701:GLY:N	1:B:1645:ASN:O	2.37	0.44
1:B:2128:TYR:HB2	1:B:3673:MET:CE	2.48	0.44
1:B:2211:MET:CE	1:B:2232:CYS:HB2	2.47	0.44
1:B:2549:ALA:CA	1:B:2552:ARG:NH1	2.81	0.44
1:B:3277:LEU:HD21	1:B:3281:LEU:HD11	1.98	0.44
1:B:3296:LEU:HD23	1:B:3296:LEU:C	2.41	0.44
1:B:3702:VAL:HA	1:B:3778:MET:HE1	1.98	0.44
1:B:3992:PHE:HB3	1:B:3996:PHE:CE2	2.52	0.44
1:D:182:LEU:HD12	1:D:190:GLN:O	2.17	0.44
1:D:321:GLU:OE2	1:D:323:LEU:HD22	2.17	0.44
1:D:404:ILE:HG23	1:D:483:MET:HE2	1.98	0.44
1:D:1476:MET:O	1:D:1484:HIS:N	2.51	0.44
1:D:2128:TYR:HB2	1:D:3673:MET:CE	2.48	0.44
1:D:2161:GLN:O	1:D:2165:LEU:HD13	2.17	0.44
1:D:2858:GLN:OE1	1:D:2932:MET:HE1	2.17	0.44
1:D:3225:ARG:NE	1:D:3226:GLU:OE1	2.51	0.44
1:C:2182:ILE:CD1	1:C:2231:SER:HB2	2.48	0.44
1:C:2255:SER:O	1:C:2258:LEU:N	2.48	0.44
1:C:2302:LEU:HD23	1:C:2302:LEU:C	2.42	0.44
1:C:2354:VAL:O	1:C:2358:ILE:HG23	2.17	0.44
1:A:46:LEU:HD23	1:A:47:CYS:O	2.17	0.44
1:A:213:TYR:CD1	1:A:337:PRO:HB2	2.52	0.44
1:A:224:HIS:CD2	1:A:247:TYR:CE2	3.05	0.44
1:A:280:LEU:HD12	1:A:281:ARG:H	1.82	0.44
1:A:744:VAL:HG22	1:A:759:ILE:HD13	1.99	0.44
1:A:1527:MET:HE3	1:A:1540:PHE:CB	2.47	0.44
1:A:2538:THR:C	1:A:2542:SER:HG	2.25	0.44
1:A:3262:ARG:O	1:A:3266:MET:SD	2.75	0.44
1:A:3579:LEU:HD23	1:A:3581:GLY:N	2.32	0.44
1:A:3781:GLN:OE1	1:A:3819:TYR:CE2	2.70	0.44
1:A:3969:ILE:HD11	1:A:4029:SER:HB2	1.99	0.44
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.18	0.44
1:B:871:ARG:NH1	1:B:922:LEU:HD12	2.32	0.44
1:B:2129:ASP:O	1:B:2133:GLU:OE1	2.35	0.44
1:B:3781:GLN:OE1	1:B:3819:TYR:CE2	2.70	0.44
1:B:4901:ILE:HG13	1:B:4913:ARG:NH2	2.32	0.44
1:D:861:ILE:HG23	1:D:861:ILE:O	2.16	0.44
1:D:1929:MET:O	1:D:1930:LYS:CB	2.66	0.44
1:D:2302:LEU:HD23	1:D:2302:LEU:C	2.42	0.44
1:D:2722:LYS:HB2	1:D:2724:GLU:OE1	2.17	0.44
1:D:2988:LYS:HZ1	1:D:2990:PRO:HG3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3062:PRO:HA	1:D:3065:VAL:HG12	1.99	0.44
1:D:3524:MET:HG2	1:D:3595:ARG:CD	2.46	0.44
1:D:3941:ASP:OD1	1:D:3941:ASP:N	2.49	0.44
1:D:4218:ILE:O	1:D:4222:VAL:HG23	2.17	0.44
1:D:4573:ILE:HG23	1:D:4643:LEU:HD11	1.99	0.44
1:D:4651:THR:HG1	1:D:4799:SER:HG	1.64	0.44
1:D:4870:ASP:OD1	1:D:4871:GLU:N	2.51	0.44
1:C:213:TYR:HA	1:C:339:ILE:O	2.18	0.44
1:C:495:ASN:O	1:C:496:VAL:C	2.59	0.44
1:C:689:THR:HG21	1:C:776:LEU:HB2	1.98	0.44
1:C:701:GLY:N	1:C:1645:ASN:O	2.37	0.44
1:C:2155:LEU:HD21	1:C:2188:ASN:CG	2.43	0.44
1:C:2891:LYS:HA	1:C:2894:LEU:HB2	2.00	0.44
1:C:3283:ARG:HG2	1:C:3287:ARG:NH1	2.32	0.44
1:C:3579:LEU:HD23	1:C:3581:GLY:N	2.33	0.44
1:A:213:TYR:HA	1:A:339:ILE:O	2.17	0.44
1:A:293:LEU:HD13	1:A:378:LEU:HD13	1.99	0.44
1:A:891:TRP:HE3	1:A:904:HIS:HD1	1.65	0.44
1:A:1298:HIS:HE1	1:A:1431:THR:HG23	1.83	0.44
1:A:1497:GLY:O	1:A:1501:VAL:HG13	2.18	0.44
1:A:2206:THR:O	1:A:2210:VAL:HG23	2.17	0.44
1:A:2326:CYS:SG	1:A:2327:GLY:N	2.90	0.44
1:A:2458:ARG:NH2	1:A:2509:VAL:O	2.51	0.44
1:A:3320:LEU:CD1	1:A:3353:LEU:HD21	2.48	0.44
1:A:3617:LYS:HG3	1:A:3618:ALA:N	2.31	0.44
1:A:4124:ASN:OD1	1:A:4127:GLU:HG3	2.17	0.44
2:E:2:VAL:HG22	2:E:58:GLY:HA2	1.99	0.44
2:E:55:VAL:HG12	2:E:59:TRP:HB2	1.99	0.44
2:F:57:ARG:NH1	2:F:80:TYR:CE1	2.86	0.44
1:B:293:LEU:HD13	1:B:378:LEU:HD13	1.99	0.44
1:B:495:ASN:O	1:B:496:VAL:C	2.59	0.44
1:B:2155:LEU:HD11	1:B:2185:ILE:HG23	2.00	0.44
1:B:4152:GLU:OE1	1:B:4194:TYR:OH	2.20	0.44
1:B:4221:VAL:O	1:B:4225:GLY:N	2.51	0.44
1:B:4778:TRP:O	1:B:4782:VAL:HG23	2.17	0.44
1:B:4991:PHE:CE2	1:B:4995:LEU:HD11	2.52	0.44
1:D:149:THR:HG23	1:D:174:VAL:HG22	1.98	0.44
1:D:516:LYS:O	1:D:519:VAL:HG22	2.18	0.44
1:D:2185:ILE:HG21	1:D:2203:MET:HE1	1.98	0.44
1:D:2326:CYS:SG	1:D:2327:GLY:N	2.90	0.44
1:D:3439:GLY:O	1:D:3443:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3725:TYR:HA	1:D:3728:ILE:HD12	1.99	0.44
1:D:4797:VAL:O	1:D:4801:LEU:HD23	2.17	0.44
1:D:5032:TYR:O	1:D:5036:LEU:N	2.37	0.44
1:C:725:HIS:ND1	1:C:725:HIS:O	2.51	0.44
1:C:1280:GLN:O	1:C:1281:ASN:OD1	2.35	0.44
1:C:1527:MET:HE3	1:C:1540:PHE:CB	2.47	0.44
1:C:2326:CYS:SG	1:C:2327:GLY:N	2.90	0.44
1:C:2722:LYS:HB2	1:C:2724:GLU:OE1	2.17	0.44
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.53	0.44
1:C:4820:VAL:HG12	1:C:4822:THR:N	2.33	0.44
1:A:829:TYR:O	1:A:840:VAL:N	2.42	0.44
1:A:1069:TRP:CE2	1:A:1602:PRO:CG	3.01	0.44
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.18	0.44
1:A:2128:TYR:HB2	1:A:3673:MET:CE	2.48	0.44
1:A:2673:HIS:ND1	1:A:2716:ASP:OD1	2.51	0.44
1:A:2674:LEU:HD23	1:A:2677:LYS:CE	2.47	0.44
1:A:3115:VAL:O	1:A:3116:SER:HB3	2.18	0.44
1:A:3227:ARG:HA	1:A:3230:LEU:HG	1.99	0.44
1:A:3354:LEU:CD1	1:A:3415:TYR:CE2	2.99	0.44
1:A:3365:LEU:HD12	1:A:3408:LEU:HD21	1.98	0.44
1:A:4991:PHE:CE2	1:A:4995:LEU:HD11	2.52	0.44
2:H:2:VAL:HG22	2:H:58:GLY:HA2	1.99	0.44
2:G:57:ARG:NH1	2:G:80:TYR:CE1	2.86	0.44
1:B:1154:ASP:OD1	1:B:1156:THR:OG1	2.36	0.44
1:B:1861:GLN:HB3	1:B:1865:MET:HE3	1.99	0.44
1:B:1922:LEU:O	1:B:1922:LEU:HG	2.18	0.44
1:B:1930:LYS:C	1:B:1931:LEU:HG	2.43	0.44
1:B:2182:ILE:CD1	1:B:2231:SER:HB2	2.48	0.44
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.17	0.44
1:B:2458:ARG:NH2	1:B:2509:VAL:O	2.51	0.44
1:B:2701:PRO:O	1:B:2704:CYS:N	2.51	0.44
1:B:3225:ARG:NE	1:B:3226:GLU:OE1	2.51	0.44
1:B:3579:LEU:HD23	1:B:3581:GLY:N	2.32	0.44
1:B:3782:MET:O	1:B:3786:CYS:SG	2.76	0.44
1:D:213:TYR:CD1	1:D:337:PRO:HB2	2.52	0.44
1:D:891:TRP:HE3	1:D:904:HIS:HD1	1.65	0.44
1:D:1298:HIS:HE1	1:D:1431:THR:HG23	1.83	0.44
1:D:1922:LEU:HG	1:D:1922:LEU:O	2.18	0.44
1:D:2458:ARG:NH2	1:D:2509:VAL:O	2.51	0.44
1:D:2672:LEU:HD22	1:D:2710:LEU:HD13	2.00	0.44
1:D:3320:LEU:CD1	1:D:3353:LEU:HD21	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4673:ARG:O	1:D:4676:GLU:HG3	2.18	0.44
1:D:4783:ILE:O	1:D:4786:ASP:OD1	2.36	0.44
1:D:4834:GLY:O	1:D:4838:VAL:HG23	2.18	0.44
1:D:4901:ILE:HG13	1:D:4913:ARG:NH2	2.32	0.44
1:C:224:HIS:CD2	1:C:247:TYR:CE2	3.05	0.44
1:C:768:PHE:CE1	1:C:1474:VAL:HG22	2.52	0.44
1:C:1112:ASP:CG	1:C:1113:VAL:N	2.74	0.44
1:C:1154:ASP:OD1	1:C:1156:THR:OG1	2.36	0.44
1:C:1476:MET:O	1:C:1484:HIS:N	2.51	0.44
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.18	0.44
1:C:2014:ASP:O	1:C:2015:GLU:HB3	2.17	0.44
1:C:2129:ASP:O	1:C:2133:GLU:OE1	2.35	0.44
1:C:2185:ILE:HG21	1:C:2203:MET:HE1	1.98	0.44
1:C:2333:ASP:OD1	1:C:2334:PHE:N	2.50	0.44
1:C:2696:TYR:O	1:C:2700:MET:SD	2.74	0.44
1:C:2991:HIS:O	1:C:2992:GLU:C	2.61	0.44
1:C:3842:LEU:HG	1:C:3875:MET:SD	2.57	0.44
1:C:4573:ILE:HG23	1:C:4643:LEU:HD11	1.99	0.44
1:A:404:ILE:HG23	1:A:483:MET:HE2	1.98	0.44
1:A:725:HIS:ND1	1:A:725:HIS:O	2.51	0.44
1:A:2182:ILE:CD1	1:A:2231:SER:HB2	2.48	0.44
1:A:2858:GLN:OE1	1:A:2932:MET:HE1	2.17	0.44
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.53	0.44
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.17	0.44
1:B:36:CYS:SG	1:B:65:CYS:HB3	2.58	0.44
1:B:182:LEU:HD12	1:B:190:GLN:O	2.17	0.44
1:B:1069:TRP:CE2	1:B:1602:PRO:CG	3.01	0.44
1:B:1298:HIS:HE1	1:B:1431:THR:HG23	1.83	0.44
1:B:1497:GLY:O	1:B:1501:VAL:HG13	2.18	0.44
1:B:2369[A]:ARG:NH2	1:B:2372:GLY:O	2.45	0.44
1:B:2673:HIS:ND1	1:B:2716:ASP:OD1	2.51	0.44
1:B:2674:LEU:HD23	1:B:2677:LYS:CE	2.47	0.44
1:B:3283:ARG:HG2	1:B:3287:ARG:NH1	2.32	0.44
1:B:3567:PRO:HA	1:B:3570:ARG:HB3	2.00	0.44
1:B:3937:TYR:CD1	1:B:3940:LYS:HD2	2.53	0.44
1:D:732:SER:O	1:D:735:GLN:HG3	2.17	0.44
1:D:1069:TRP:CE2	1:D:1602:PRO:CG	3.01	0.44
1:D:2135:LEU:O	1:D:2139:PRO:HD3	2.18	0.44
1:D:2155:LEU:HD21	1:D:2188:ASN:CG	2.43	0.44
1:D:2634:ASN:OD1	1:D:2637:ALA:N	2.51	0.44
1:D:3227:ARG:HA	1:D:3230:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3433:GLU:HG3	1:D:3437:MET:SD	2.58	0.44
1:D:4162:ASN:OD1	1:D:4162:ASN:C	2.60	0.44
1:D:4991:PHE:CE2	1:D:4995:LEU:HD11	2.52	0.44
1:C:870:ILE:HD11	1:C:1049:TYR:CD2	2.53	0.44
1:C:1027:LEU:HD21	1:C:1031:THR:HG22	1.98	0.44
1:C:1497:GLY:O	1:C:1501:VAL:HG13	2.17	0.44
1:C:3567:PRO:HA	1:C:3570:ARG:HB3	1.99	0.44
1:C:3702:VAL:HA	1:C:3778:MET:HE1	1.98	0.44
1:C:3725:TYR:HA	1:C:3728:ILE:HD12	1.99	0.44
1:C:3937:TYR:CD1	1:C:3940:LYS:HD2	2.53	0.44
1:C:3969:ILE:HD11	1:C:4029:SER:HB2	1.99	0.44
1:C:4680:LYS:O	1:C:4685:GLY:N	2.47	0.44
1:A:1154:ASP:OD1	1:A:1156:THR:OG1	2.36	0.44
1:A:1861:GLN:HB3	1:A:1865:MET:HE3	1.99	0.44
1:A:2014:ASP:O	1:A:2015:GLU:HB3	2.17	0.44
1:A:2155:LEU:HD11	1:A:2185:ILE:HG23	2.00	0.44
1:A:2166:LEU:CD1	1:A:2206:THR:HG23	2.44	0.44
1:A:2722:LYS:HB2	1:A:2724:GLU:OE1	2.17	0.44
1:A:3628:ARG:O	1:A:3631:ALA:N	2.42	0.44
1:A:4231:MET:CE	1:A:5022:PHE:CD1	3.01	0.44
1:A:4820:VAL:HG12	1:A:4822:THR:N	2.33	0.44
1:A:4943:LEU:O	1:A:4947:GLN:HG2	2.18	0.44
2:G:55:VAL:HG12	2:G:59:TRP:HB2	1.99	0.44
1:B:213:TYR:HA	1:B:339:ILE:O	2.18	0.44
1:B:280:LEU:HD12	1:B:281:ARG:H	1.82	0.44
1:B:682:LEU:HD13	1:B:787:VAL:HG21	1.98	0.44
1:B:725:HIS:O	1:B:725:HIS:ND1	2.51	0.44
1:B:950:LEU:HD21	1:B:1048:GLY:O	2.18	0.44
1:B:1116:GLY:O	1:B:1134:LEU:N	2.50	0.44
1:B:1431:THR:HG21	1:B:1523:ALA:H	1.82	0.44
1:B:1778:SER:HB3	1:B:1798:LEU:HB2	2.00	0.44
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.17	0.44
1:B:2549:ALA:HA	1:B:2552:ARG:CZ	2.48	0.44
1:B:2891:LYS:O	1:B:2895:GLU:CD	2.61	0.44
1:B:2930:LEU:O	1:B:2935:TYR:N	2.47	0.44
1:B:3439:GLY:O	1:B:3443:ILE:HG12	2.18	0.44
1:B:3941:ASP:OD1	1:B:3941:ASP:N	2.49	0.44
1:B:4000:MET:HE3	1:B:4017:LEU:HD21	1.99	0.44
1:B:4231:MET:CE	1:B:5022:PHE:CD1	3.01	0.44
1:B:4581:LYS:HD2	1:B:4582:VAL:N	2.33	0.44
1:B:4870:ASP:OD1	1:B:4871:GLU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:574:VAL:HA	1:D:577:ILE:HG12	1.98	0.44
1:D:725:HIS:ND1	1:D:725:HIS:O	2.51	0.44
1:D:870:ILE:HD11	1:D:1049:TYR:CD2	2.53	0.44
1:D:899:ASP:O	1:D:902:ARG:NH2	2.44	0.44
1:D:2872:GLN:O	1:D:2873:ALA:C	2.61	0.44
1:D:2891:LYS:O	1:D:2895:GLU:CD	2.61	0.44
1:D:3261:ALA:C	1:D:3266:MET:HE1	2.43	0.44
1:D:3781:GLN:OE1	1:D:3819:TYR:CE2	2.70	0.44
1:D:3802:ILE:HD12	1:D:3886:ARG:CG	2.47	0.44
1:D:3992:PHE:HB3	1:D:3996:PHE:CE2	2.52	0.44
1:D:4231:MET:CE	1:D:5022:PHE:CD1	3.01	0.44
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.99	0.44
1:C:46:LEU:HD23	1:C:47:CYS:O	2.17	0.44
1:C:516:LYS:O	1:C:519:VAL:HG22	2.18	0.44
1:C:1922:LEU:HG	1:C:1922:LEU:O	2.18	0.44
1:C:4231:MET:CE	1:C:5022:PHE:CD1	3.01	0.44
1:C:4991:PHE:CE2	1:C:4995:LEU:HD11	2.52	0.44
1:A:1206:GLN:N	1:A:1227:ALA:HB3	2.33	0.44
1:A:1922:LEU:HG	1:A:1922:LEU:O	2.18	0.44
1:A:2701:PRO:O	1:A:2704:CYS:N	2.51	0.44
1:A:2859:PRO:HB3	1:A:2932:MET:CE	2.48	0.44
1:A:3062:PRO:HA	1:A:3065:VAL:HG12	1.99	0.44
1:A:3207:GLU:OE1	1:A:3280:TYR:OH	2.29	0.44
1:A:3225:ARG:NE	1:A:3226:GLU:OE1	2.51	0.44
1:A:3433:GLU:HG3	1:A:3437:MET:SD	2.58	0.44
1:A:3439:GLY:O	1:A:3443:ILE:HG12	2.18	0.44
2:H:55:VAL:HG12	2:H:59:TRP:HB2	1.99	0.44
1:B:1100:MET:HE1	1:B:1199:VAL:O	2.17	0.44
1:B:2991:HIS:O	1:B:2992:GLU:C	2.61	0.44
1:B:4218:ILE:O	1:B:4222:VAL:HG23	2.17	0.44
1:B:4731:ILE:HG23	1:B:4732:PHE:N	2.32	0.44
1:B:4834:GLY:O	1:B:4838:VAL:HG23	2.18	0.44
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.18	0.44
1:D:701:GLY:N	1:D:1645:ASN:O	2.36	0.44
1:D:2014:ASP:O	1:D:2015:GLU:HB3	2.17	0.44
1:D:2129:ASP:O	1:D:2133:GLU:OE1	2.35	0.44
1:D:2182:ILE:CD1	1:D:2231:SER:HB2	2.48	0.44
1:D:2447:LYS:HD2	1:D:2450:ALA:H	1.83	0.44
1:D:2673:HIS:ND1	1:D:2716:ASP:OD1	2.51	0.44
1:D:3579:LEU:HD23	1:D:3581:GLY:N	2.32	0.44
1:C:173:SER:OG	1:C:176:SER:OG	1.88	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:744:VAL:HG22	1:C:759:ILE:HD13	1.99	0.44
1:C:2549:ALA:CA	1:C:2552:ARG:NH1	2.81	0.44
1:C:2891:LYS:O	1:C:2895:GLU:CD	2.61	0.44
1:C:4024:VAL:HG11	1:C:4142:ASN:HB3	2.00	0.44
1:C:4581:LYS:HD2	1:C:4582:VAL:N	2.33	0.44
1:C:4834:GLY:O	1:C:4838:VAL:HG23	2.18	0.44
1:A:1027:LEU:HD21	1:A:1031:THR:HG22	1.98	0.44
1:A:1286:MET:CE	1:A:1555:LEU:HD12	2.46	0.44
1:A:1835:GLU:O	1:A:1839:VAL:HG23	2.17	0.44
1:A:2858:GLN:N	1:A:2859:PRO:CD	2.81	0.44
1:A:2891:LYS:O	1:A:2895:GLU:CD	2.61	0.44
1:A:3135:ALA:O	1:A:3139:VAL:HG13	2.18	0.44
1:A:3199:ALA:O	1:A:3283:ARG:HD2	2.18	0.44
1:A:3329:ILE:O	1:A:3403:ARG:NH2	2.51	0.44
1:A:4747:SER:HA	1:A:4750:ILE:HG12	2.00	0.44
1:B:363:ASP:C	1:B:363:ASP:OD1	2.61	0.44
1:B:516:LYS:O	1:B:519:VAL:HG22	2.18	0.44
1:B:950:LEU:HD13	1:B:970:LEU:CD2	2.48	0.44
1:B:2170:MET:CE	1:B:2175:GLU:HB2	2.48	0.44
1:B:3320:LEU:CD1	1:B:3353:LEU:HD21	2.48	0.44
1:B:4185:GLY:CA	1:B:4191:GLU:OE1	2.66	0.44
1:B:4747:SER:HA	1:B:4750:ILE:HG12	2.00	0.44
1:D:280:LEU:HD12	1:D:281:ARG:H	1.82	0.44
1:D:871:ARG:NH1	1:D:922:LEU:HD12	2.32	0.44
1:D:1087:ARG:HB3	1:D:1223:PHE:CD1	2.53	0.44
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.18	0.44
1:D:2747:ILE:HG21	1:D:2814:LYS:CG	2.44	0.44
1:D:2859:PRO:HB3	1:D:2932:MET:CE	2.48	0.44
1:D:3112:LEU:O	1:D:3112:LEU:HG	2.18	0.44
1:D:3306:ALA:O	1:D:3308:THR:HG23	2.18	0.44
1:D:3937:TYR:CD1	1:D:3940:LYS:HD2	2.53	0.44
1:C:363:ASP:C	1:C:363:ASP:OD1	2.61	0.44
1:C:1431:THR:HG21	1:C:1523:ALA:H	1.82	0.44
1:C:2254:LEU:O	1:C:2255:SER:C	2.61	0.44
1:C:3135:ALA:O	1:C:3139:VAL:HG13	2.18	0.44
1:C:3227:ARG:HA	1:C:3230:LEU:HG	1.99	0.44
1:C:3262:ARG:O	1:C:3266:MET:SD	2.75	0.44
1:C:3781:GLN:OE1	1:C:3819:TYR:CE2	2.70	0.44
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.18	0.44
1:C:4218:ILE:O	1:C:4222:VAL:HG23	2.17	0.44
1:C:4870:ASP:OD1	1:C:4871:GLU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:VAL:O	1:A:29:LEU:HD23	2.18	0.43
1:A:768:PHE:CE1	1:A:1474:VAL:HG22	2.52	0.43
1:A:2170:MET:CE	1:A:2175:GLU:HB2	2.48	0.43
1:A:2214:VAL:HB	1:A:2228:MET:HE1	2.00	0.43
1:A:2254:LEU:O	1:A:2255:SER:C	2.61	0.43
1:A:2634:ASN:OD1	1:A:2637:ALA:N	2.51	0.43
1:A:4162:ASN:OD1	1:A:4162:ASN:C	2.60	0.43
1:A:4221:VAL:O	1:A:4225:GLY:N	2.51	0.43
1:A:4783:ILE:O	1:A:4786:ASP:OD1	2.36	0.43
1:B:46:LEU:HD23	1:B:47:CYS:O	2.17	0.43
1:B:1112:ASP:CG	1:B:1113:VAL:N	2.74	0.43
1:B:2214:VAL:HB	1:B:2228:MET:HE1	2.00	0.43
1:B:2447:LYS:HD2	1:B:2450:ALA:H	1.83	0.43
1:B:2634:ASN:OD1	1:B:2637:ALA:N	2.51	0.43
1:B:2775:TRP:CH2	1:B:2786:LYS:HE2	2.53	0.43
1:B:2907:PRO:O	1:B:2910:THR:OG1	2.30	0.43
1:B:3386:GLU:O	1:B:3389:GLU:HB3	2.18	0.43
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.53	0.43
1:B:3696:ASP:O	1:B:3700:GLN:HG3	2.17	0.43
1:B:4067:LYS:O	1:B:4070:ASP:OD1	2.36	0.43
1:D:213:TYR:HA	1:D:339:ILE:O	2.18	0.43
1:D:1154:ASP:OD1	1:D:1156:THR:OG1	2.36	0.43
1:D:1286:MET:CE	1:D:1555:LEU:HD12	2.46	0.43
1:D:1835:GLU:O	1:D:1839:VAL:HG23	2.17	0.43
1:D:2002:PRO:HB2	1:D:3652:MET:HE1	2.00	0.43
1:D:2203:MET:HE2	1:D:2235:PHE:CZ	2.53	0.43
1:D:2549:ALA:HA	1:D:2552:ARG:CZ	2.48	0.43
1:D:2775:TRP:CH2	1:D:2786:LYS:HE2	2.53	0.43
1:D:3015:LEU:HD12	1:D:3025:LEU:C	2.43	0.43
1:D:3111:ARG:HH22	1:D:3175:LEU:HD12	1.82	0.43
1:D:3567:PRO:HA	1:D:3570:ARG:HB3	2.00	0.43
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.18	0.43
1:C:950:LEU:HD13	1:C:970:LEU:CD2	2.48	0.43
1:C:1069:TRP:CE2	1:C:1602:PRO:CG	3.01	0.43
1:C:1206:GLN:N	1:C:1227:ALA:HB3	2.33	0.43
1:C:2002:PRO:HB2	1:C:3652:MET:HE1	2.00	0.43
1:C:2161:GLN:O	1:C:2165:LEU:HD13	2.17	0.43
1:C:2170:MET:CE	1:C:2175:GLU:HB2	2.48	0.43
1:C:2177:LEU:HD23	1:C:2177:LEU:C	2.43	0.43
1:C:2206:THR:O	1:C:2210:VAL:HG23	2.17	0.43
1:C:2549:ALA:HA	1:C:2552:ARG:CZ	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3112:LEU:HG	1:C:3112:LEU:O	2.18	0.43
1:C:3225:ARG:NE	1:C:3226:GLU:OE1	2.51	0.43
1:A:421:PHE:CE2	1:A:507:ALA:HA	2.53	0.43
1:A:2549:ALA:HA	1:A:2552:ARG:CZ	2.48	0.43
1:A:4067:LYS:O	1:A:4070:ASP:OD1	2.36	0.43
1:A:4870:ASP:OD1	1:A:4871:GLU:N	2.51	0.43
2:G:2:VAL:HG22	2:G:58:GLY:HA2	1.99	0.43
2:G:49:MET:HB3	2:G:52:LYS:HE2	1.98	0.43
1:B:2135:LEU:O	1:B:2139:PRO:HD3	2.18	0.43
1:B:2167:ILE:HG13	1:B:2168:VAL:N	2.33	0.43
1:B:2858:GLN:N	1:B:2859:PRO:CD	2.81	0.43
1:B:2891:LYS:HA	1:B:2894:LEU:HB2	2.00	0.43
1:B:3354:LEU:CD1	1:B:3415:TYR:CE2	2.99	0.43
1:B:4124:ASN:OD1	1:B:4127:GLU:HG3	2.17	0.43
1:D:744:VAL:HG22	1:D:759:ILE:HD13	1.99	0.43
1:D:1497:GLY:O	1:D:1501:VAL:HG13	2.17	0.43
1:D:2549:ALA:CA	1:D:2552:ARG:NH1	2.81	0.43
1:D:2891:LYS:HA	1:D:2894:LEU:HB2	2.00	0.43
1:D:3729:MET:HE2	1:D:3770:LEU:HD13	2.00	0.43
1:D:4045:VAL:O	1:D:4049:VAL:HG23	2.18	0.43
1:D:4124:ASN:OD1	1:D:4127:GLU:HG3	2.17	0.43
1:C:633:LEU:HD13	1:C:1639:LEU:HD11	2.00	0.43
1:C:908:VAL:HG23	1:C:909:ASN:N	2.33	0.43
1:C:1778:SER:HB3	1:C:1798:LEU:HB2	2.00	0.43
1:C:2203:MET:HE2	1:C:2235:PHE:CZ	2.53	0.43
1:C:2214:VAL:HB	1:C:2228:MET:HE1	2.00	0.43
1:C:2458:ARG:NH2	1:C:2509:VAL:O	2.51	0.43
1:C:2498:HIS:O	1:C:2501:SER:OG	2.33	0.43
1:C:2673:HIS:ND1	1:C:2716:ASP:OD1	2.51	0.43
1:C:2761:TYR:HD2	1:C:2859:PRO:HD3	1.83	0.43
1:C:2894:LEU:O	1:C:2898:GLY:N	2.36	0.43
1:C:3115:VAL:O	1:C:3116:SER:HB3	2.18	0.43
1:C:3249:LEU:HD21	1:C:3273:THR:HG22	2.01	0.43
1:C:3261:ALA:C	1:C:3266:MET:HE1	2.43	0.43
1:C:3439:GLY:O	1:C:3443:ILE:HG12	2.18	0.43
1:A:155:LYS:HE2	1:D:228:ASP:OD2	2.19	0.43
1:A:1929:MET:O	1:A:1930:LYS:CB	2.66	0.43
1:A:2879:ALA:HB1	1:A:2916:LYS:HZ2	1.84	0.43
1:A:2892:GLN:HA	1:A:2895:GLU:OE1	2.18	0.43
1:A:3660:ALA:HB3	1:A:3661:TRP:HD1	1.84	0.43
1:A:3937:TYR:CD1	1:A:3940:LYS:HD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4551:PHE:CE2	1:A:4555:LEU:HD11	2.54	0.43
1:A:4581:LYS:HD2	1:A:4582:VAL:N	2.33	0.43
2:F:79:ASP:OD1	2:F:80:TYR:CD2	2.72	0.43
1:B:231:LEU:HD13	1:B:247:TYR:HE1	1.81	0.43
1:B:1469:VAL:HG22	1:B:1492:CYS:SG	2.59	0.43
1:B:2722:LYS:HB2	1:B:2724:GLU:OE1	2.17	0.43
1:B:2761:TYR:HD2	1:B:2859:PRO:HD3	1.83	0.43
1:B:3112:LEU:HG	1:B:3112:LEU:O	2.18	0.43
1:B:3135:ALA:O	1:B:3139:VAL:HG13	2.18	0.43
1:B:4551:PHE:CE2	1:B:4555:LEU:HD11	2.54	0.43
1:B:4674:GLU:OE2	1:B:4775:TYR:OH	2.30	0.43
1:D:710:ASP:OD1	1:D:713:SER:OG	2.36	0.43
1:D:909:ASN:HB3	1:D:912:SER:HB2	2.00	0.43
1:D:950:LEU:HD13	1:D:970:LEU:CD2	2.48	0.43
1:D:1469:VAL:HG22	1:D:1492:CYS:SG	2.58	0.43
1:D:2177:LEU:C	1:D:2177:LEU:HD23	2.43	0.43
1:D:2214:VAL:HB	1:D:2228:MET:HE1	2.00	0.43
1:D:2858:GLN:N	1:D:2859:PRO:CD	2.81	0.43
1:D:2991:HIS:O	1:D:2992:GLU:C	2.61	0.43
1:D:3115:VAL:O	1:D:3116:SER:HB3	2.18	0.43
1:D:3135:ALA:O	1:D:3139:VAL:HG13	2.18	0.43
1:D:3152:PHE:O	1:D:3156:VAL:HG23	2.19	0.43
1:D:3628:ARG:HB3	1:D:3631:ALA:HB3	2.00	0.43
1:C:1469:VAL:HG22	1:C:1492:CYS:SG	2.58	0.43
1:C:2672:LEU:HD22	1:C:2710:LEU:HD13	2.00	0.43
1:C:3306:ALA:O	1:C:3308:THR:HG23	2.18	0.43
1:C:3729:MET:HE2	1:C:3770:LEU:HD13	2.01	0.43
1:C:4185:GLY:CA	1:C:4191:GLU:OE1	2.66	0.43
1:C:4673:ARG:O	1:C:4676:GLU:HG3	2.18	0.43
1:C:4783:ILE:O	1:C:4786:ASP:OD1	2.36	0.43
1:A:363:ASP:C	1:A:363:ASP:OD1	2.61	0.43
1:A:870:ILE:HD11	1:A:1049:TYR:CD2	2.53	0.43
1:A:908:VAL:HG23	1:A:909:ASN:N	2.33	0.43
1:A:1469:VAL:HG22	1:A:1492:CYS:SG	2.59	0.43
1:A:1476:MET:O	1:A:1484:HIS:N	2.51	0.43
1:A:1778:SER:HB3	1:A:1798:LEU:HB2	2.00	0.43
1:A:2135:LEU:O	1:A:2139:PRO:HD3	2.18	0.43
1:A:2793:PRO:O	1:A:2797:PHE:N	2.45	0.43
1:A:2970:SER:O	1:A:2974:ILE:HG12	2.18	0.43
1:A:3261:ALA:C	1:A:3266:MET:HE1	2.43	0.43
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2177:LEU:HD23	1:B:2177:LEU:C	2.43	0.43
1:B:2212:VAL:HG11	1:B:2256:TYR:CE2	2.53	0.43
1:B:2348:GLU:O	1:B:2352:VAL:HG23	2.19	0.43
1:B:2970:SER:O	1:B:2974:ILE:HG12	2.18	0.43
1:B:3332:ALA:CB	1:B:3335:MET:HE3	2.49	0.43
1:B:4797:VAL:O	1:B:4801:LEU:HD23	2.17	0.43
1:D:46:LEU:HD23	1:D:47:CYS:O	2.17	0.43
1:D:421:PHE:CE2	1:D:507:ALA:HA	2.53	0.43
1:D:633:LEU:HD13	1:D:1639:LEU:HD11	2.01	0.43
1:D:2701:PRO:O	1:D:2704:CYS:N	2.51	0.43
1:D:2926:LEU:O	1:D:2930:LEU:HD13	2.19	0.43
1:D:3199:ALA:O	1:D:3283:ARG:HD2	2.18	0.43
1:D:3768:SER:HA	1:D:3771:HIS:NE2	2.34	0.43
1:D:4185:GLY:CA	1:D:4191:GLU:OE1	2.66	0.43
1:C:36:CYS:SG	1:C:65:CYS:HB3	2.58	0.43
1:C:861:ILE:HG23	1:C:861:ILE:O	2.16	0.43
1:C:1590:GLN:OE1	1:C:1590:GLN:N	2.52	0.43
1:C:2255:SER:O	1:C:2259:GLU:OE1	2.37	0.43
1:C:2382:GLU:HA	1:C:2385:ARG:CZ	2.48	0.43
1:C:2634:ASN:OD1	1:C:2637:ALA:N	2.51	0.43
1:C:2920:ARG:O	1:C:2924:GLN:HG2	2.19	0.43
1:C:3320:LEU:CD1	1:C:3353:LEU:HD21	2.48	0.43
1:C:3329:ILE:O	1:C:3403:ARG:NH2	2.51	0.43
1:C:3433:GLU:HG3	1:C:3437:MET:SD	2.58	0.43
1:C:3640:PRO:O	1:C:3643:ASN:N	2.41	0.43
1:C:4045:VAL:O	1:C:4049:VAL:HG23	2.19	0.43
1:C:4551:PHE:CE2	1:C:4555:LEU:HD11	2.54	0.43
1:A:208:CYS:O	1:A:334:MET:HG3	2.19	0.43
1:A:228:ASP:OD2	1:B:155:LYS:HE2	2.18	0.43
1:A:349:GLN:NE2	1:A:354:GLY:O	2.51	0.43
1:A:950:LEU:HD13	1:A:970:LEU:CD2	2.48	0.43
1:A:1087:ARG:HB3	1:A:1223:PHE:CD1	2.53	0.43
1:A:2177:LEU:HD23	1:A:2177:LEU:C	2.43	0.43
1:A:2459:SER:HB2	1:B:133:PHE:HZ	1.83	0.43
1:A:2549:ALA:CA	1:A:2552:ARG:NH1	2.81	0.43
1:A:3112:LEU:O	1:A:3112:LEU:HG	2.18	0.43
1:A:4798:MET:HE2	1:A:4811:ALA:CB	2.48	0.43
2:E:57:ARG:NH1	2:E:80:TYR:CE1	2.86	0.43
2:E:79:ASP:OD1	2:E:80:TYR:CD2	2.72	0.43
2:F:20:GLN:C	2:F:49:MET:SD	3.02	0.43
1:B:579:GLN:O	1:B:583:ILE:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:870:ILE:HD11	1:B:1049:TYR:CD2	2.53	0.43
1:B:965:TYR:CE2	1:B:967:PRO:HA	2.54	0.43
1:B:1575:LEU:HD23	1:B:1575:LEU:O	2.19	0.43
1:B:2002:PRO:HB2	1:B:3652:MET:HE1	2.00	0.43
1:B:2747:ILE:HG21	1:B:2814:LYS:CG	2.44	0.43
1:B:2926:LEU:O	1:B:2930:LEU:HD13	2.19	0.43
1:B:3015:LEU:HD12	1:B:3025:LEU:C	2.43	0.43
1:B:3329:ILE:O	1:B:3403:ARG:NH2	2.51	0.43
1:B:3540:TYR:OH	1:B:3597:GLN:O	2.37	0.43
1:B:4045:VAL:O	1:B:4049:VAL:HG23	2.19	0.43
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.18	0.43
1:B:4798:MET:HE2	1:B:4811:ALA:CB	2.48	0.43
1:D:28:VAL:O	1:D:29:LEU:HD23	2.18	0.43
1:D:208:CYS:O	1:D:334:MET:HG3	2.19	0.43
1:D:908:VAL:HG23	1:D:909:ASN:N	2.33	0.43
1:D:1206:GLN:N	1:D:1227:ALA:HB3	2.33	0.43
1:D:2170:MET:CE	1:D:2175:GLU:HB2	2.48	0.43
1:D:3283:ARG:HG2	1:D:3287:ARG:NH1	2.32	0.43
1:D:3640:PRO:HB2	1:D:3642:TYR:CE1	2.53	0.43
1:D:3660:ALA:HB3	1:D:3661:TRP:HD1	1.83	0.43
1:D:4061:PHE:CE2	1:D:4065:PHE:HE2	2.37	0.43
1:D:4551:PHE:CE2	1:D:4555:LEU:HD11	2.54	0.43
1:D:4581:LYS:HD2	1:D:4582:VAL:N	2.33	0.43
1:C:208:CYS:O	1:C:334:MET:HG3	2.19	0.43
1:C:246:TYR:CD1	1:C:375:LYS:HA	2.54	0.43
1:C:1930:LYS:C	1:C:1931:LEU:HG	2.43	0.43
1:C:2155:LEU:HD11	1:C:2185:ILE:HG23	2.00	0.43
1:C:3015:LEU:HD12	1:C:3025:LEU:C	2.43	0.43
1:C:3096:PHE:CD2	1:C:3161:VAL:HG12	2.52	0.43
1:C:3640:PRO:HB2	1:C:3642:TYR:CE1	2.53	0.43
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.99	0.43
1:A:516:LYS:O	1:A:519:VAL:HG22	2.18	0.43
1:A:583:ILE:HD12	1:A:583:ILE:H	1.84	0.43
1:A:732:SER:O	1:A:735:GLN:HG3	2.17	0.43
1:A:2203:MET:HE2	1:A:2235:PHE:CZ	2.53	0.43
1:A:2212:VAL:HG11	1:A:2256:TYR:CE2	2.53	0.43
1:A:2214:VAL:HG21	1:A:2228:MET:CE	2.41	0.43
1:A:2244:ARG:O	1:A:2247:GLN:HB3	2.19	0.43
1:A:2574:HIS:CE1	1:A:2575:ARG:HG2	2.54	0.43
1:A:2761:TYR:HD2	1:A:2859:PRO:HD3	1.83	0.43
1:A:2926:LEU:O	1:A:2930:LEU:HD13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2960:LEU:HD22	1:A:3038:MET:HB3	2.01	0.43
1:A:2988:LYS:HZ1	1:A:2990:PRO:HG3	1.83	0.43
1:A:3306:ALA:O	1:A:3308:THR:HG23	2.18	0.43
1:A:3400:VAL:HG23	1:A:3403:ARG:NH2	2.34	0.43
1:A:3729:MET:HE2	1:A:3770:LEU:HD13	2.01	0.43
1:A:4061:PHE:CE2	1:A:4065:PHE:HE2	2.37	0.43
1:A:4145:VAL:HG13	1:A:4194:TYR:HB2	2.01	0.43
1:A:5036:LEU:O	1:A:5037:SER:CB	2.64	0.43
2:E:32:ASP:OD1	2:E:33:GLY:N	2.52	0.43
2:H:20:GLN:C	2:H:49:MET:SD	3.02	0.43
2:H:79:ASP:OD1	2:H:80:TYR:CD2	2.72	0.43
1:B:2101:MET:HE3	1:B:2105:TRP:CZ3	2.54	0.43
1:B:2110:TYR:O	1:B:2112:GLN:NE2	2.39	0.43
1:B:2329:GLU:HG3	1:B:2425:PHE:HA	2.01	0.43
1:B:2872:GLN:O	1:B:2873:ALA:C	2.61	0.43
1:B:2920:ARG:O	1:B:2924:GLN:HG2	2.19	0.43
1:B:3159:ASP:O	1:B:3163:VAL:HG23	2.19	0.43
1:D:231:LEU:CD1	1:D:245:VAL:HG12	2.48	0.43
1:D:363:ASP:C	1:D:363:ASP:OD1	2.61	0.43
1:D:545:ASP:OD1	1:D:546:TRP:N	2.52	0.43
1:D:583:ILE:H	1:D:583:ILE:HD12	1.84	0.43
1:D:1715:LEU:HD23	1:D:1720:LEU:HD12	2.01	0.43
1:D:2090:LYS:HZ1	1:D:2092:GLN:CD	2.26	0.43
1:D:2382:GLU:HA	1:D:2385:ARG:CZ	2.48	0.43
1:D:2742:THR:HG22	1:D:2742:THR:O	2.19	0.43
1:D:3346:VAL:HG11	1:D:3414:ARG:CB	2.49	0.43
1:D:3456:GLN:CD	1:D:3499:ARG:NH2	2.77	0.43
1:D:3540:TYR:OH	1:D:3597:GLN:O	2.37	0.43
1:D:3969:ILE:HD11	1:D:4029:SER:HB2	1.99	0.43
1:D:4000:MET:HE3	1:D:4017:LEU:HD21	1.99	0.43
1:D:4024:VAL:HG11	1:D:4142:ASN:HB3	2.00	0.43
1:D:4674:GLU:OE2	1:D:4775:TYR:OH	2.30	0.43
1:D:4798:MET:HE2	1:D:4811:ALA:CB	2.48	0.43
1:C:545:ASP:OD1	1:C:546:TRP:N	2.52	0.43
1:C:647:ASN:ND2	1:C:820:ARG:O	2.52	0.43
1:C:950:LEU:HD21	1:C:1048:GLY:O	2.18	0.43
1:C:1791:VAL:O	1:C:1792:ALA:HB3	2.18	0.43
1:C:2313:LEU:HD11	1:C:2416:VAL:HB	2.00	0.43
1:C:2701:PRO:O	1:C:2704:CYS:N	2.51	0.43
1:C:2858:GLN:N	1:C:2859:PRO:CD	2.81	0.43
1:C:3768:SER:HA	1:C:3771:HIS:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4000:MET:HE3	1:C:4017:LEU:HD21	1.99	0.43
1:C:4978:HIS:O	1:C:4983:HIS:N	2.50	0.43
1:A:898:ASP:HB2	1:A:901:LYS:HG2	2.01	0.43
1:A:965:TYR:CE2	1:A:967:PRO:HA	2.54	0.43
1:A:1715:LEU:HD23	1:A:1720:LEU:HD12	2.01	0.43
1:A:1791:VAL:O	1:A:1792:ALA:HB3	2.18	0.43
1:A:1931:LEU:HD12	1:A:1939:MET:CE	2.46	0.43
1:A:2382:GLU:HA	1:A:2385:ARG:CZ	2.48	0.43
1:A:2447:LYS:HD2	1:A:2450:ALA:H	1.83	0.43
1:A:2775:TRP:CH2	1:A:2786:LYS:HE2	2.53	0.43
1:A:2859:PRO:HB3	1:A:2932:MET:HE1	2.01	0.43
1:A:3015:LEU:HD12	1:A:3025:LEU:C	2.43	0.43
1:A:3036:LYS:HA	1:A:3039:ILE:HG22	2.01	0.43
1:A:3283:ARG:HG2	1:A:3287:ARG:NH1	2.32	0.43
1:A:3768:SER:HA	1:A:3771:HIS:NE2	2.34	0.43
1:A:4673:ARG:O	1:A:4676:GLU:HG3	2.18	0.43
1:A:4834:GLY:O	1:A:4838:VAL:HG23	2.18	0.43
2:G:20:GLN:C	2:G:49:MET:SD	3.02	0.43
1:B:768:PHE:CE1	1:B:1474:VAL:HG22	2.52	0.43
1:B:1087:ARG:HB3	1:B:1223:PHE:CD1	2.53	0.43
1:B:1515:VAL:O	1:B:1515:VAL:HG13	2.19	0.43
1:B:2313:LEU:HD11	1:B:2416:VAL:HB	2.00	0.43
1:B:2314:LEU:HD21	1:B:2320:ASP:HA	2.00	0.43
1:B:3101:GLU:HA	1:B:3104:GLU:OE1	2.19	0.43
1:B:3249:LEU:HD21	1:B:3273:THR:HG22	2.01	0.43
1:B:3261:ALA:C	1:B:3266:MET:HE1	2.43	0.43
1:B:4911:LEU:O	1:B:4915:VAL:HG23	2.19	0.43
1:D:510:GLU:HG2	1:D:511:ALA:N	2.34	0.43
1:D:987:ARG:O	1:D:990:GLU:HB3	2.19	0.43
1:D:1079:LYS:HA	1:D:1189:LEU:HD11	1.99	0.43
1:D:1575:LEU:O	1:D:1575:LEU:HD23	2.19	0.43
1:D:1791:VAL:O	1:D:1792:ALA:HB3	2.18	0.43
1:D:2101:MET:HE3	1:D:2105:TRP:CZ3	2.54	0.43
1:D:2155:LEU:HD11	1:D:2185:ILE:HG23	2.00	0.43
1:D:2249:SER:O	1:D:2253:HIS:ND1	2.52	0.43
1:D:2326:CYS:HA	1:D:2329:GLU:OE1	2.19	0.43
1:D:2761:TYR:HD2	1:D:2859:PRO:HD3	1.83	0.43
1:D:4943:LEU:O	1:D:4947:GLN:HG2	2.18	0.43
1:C:28:VAL:O	1:C:29:LEU:HD23	2.18	0.43
1:C:875:ALA:HB1	1:C:922:LEU:HD22	2.00	0.43
1:C:2872:GLN:O	1:C:2873:ALA:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2926:LEU:O	1:C:2930:LEU:HD13	2.19	0.43
1:C:2970:SER:O	1:C:2974:ILE:HG12	2.18	0.43
1:C:3105:LYS:HE2	1:C:3128:ASN:ND2	2.34	0.43
1:C:3734:HIS:O	1:C:3735:LEU:C	2.62	0.43
1:A:231:LEU:HD13	1:A:247:TYR:HE1	1.81	0.43
1:A:246:TYR:CD1	1:A:375:LYS:HA	2.54	0.43
1:A:545:ASP:OD1	1:A:546:TRP:N	2.52	0.43
1:A:633:LEU:HD13	1:A:1639:LEU:HD11	2.00	0.43
1:A:789:VAL:HG12	1:A:790:ARG:N	2.34	0.43
1:A:950:LEU:HD21	1:A:1048:GLY:O	2.18	0.43
1:A:1515:VAL:HG13	1:A:1515:VAL:O	2.19	0.43
1:A:2090:LYS:HZ1	1:A:2092:GLN:CD	2.26	0.43
1:A:2430:ILE:HG22	1:A:2505:PHE:HB2	2.01	0.43
1:A:2742:THR:O	1:A:2742:THR:HG22	2.19	0.43
1:A:2891:LYS:HA	1:A:2894:LEU:HB2	2.00	0.43
1:A:2991:HIS:O	1:A:2992:GLU:C	2.61	0.43
1:A:3152:PHE:O	1:A:3156:VAL:HG23	2.19	0.43
1:A:3384:LYS:O	1:A:3388:GLU:OE1	2.37	0.43
1:A:3628:ARG:HB3	1:A:3631:ALA:HB3	2.00	0.43
1:A:3640:PRO:HB2	1:A:3642:TYR:CE1	2.53	0.43
1:A:4000:MET:HE3	1:A:4017:LEU:HD21	1.99	0.43
2:E:20:GLN:C	2:E:49:MET:SD	3.02	0.43
2:H:57:ARG:NH1	2:H:80:TYR:CE1	2.86	0.43
2:F:88:PRO:O	2:F:90:ILE:HD12	2.19	0.43
1:B:322:LYS:NZ	1:B:354:GLY:O	2.46	0.43
1:B:414:PHE:CE2	1:B:418:LEU:HD11	2.54	0.43
1:B:421:PHE:CE2	1:B:507:ALA:HA	2.53	0.43
1:B:583:ILE:HD12	1:B:583:ILE:H	1.84	0.43
1:B:699:GLY:HA3	1:B:705:ASN:OD1	2.19	0.43
1:B:909:ASN:HB3	1:B:912:SER:HB2	2.01	0.43
1:B:987:ARG:O	1:B:990:GLU:HB3	2.19	0.43
1:B:1206:GLN:N	1:B:1227:ALA:HB3	2.33	0.43
1:B:1791:VAL:O	1:B:1792:ALA:HB3	2.18	0.43
1:B:1849:LEU:HD22	1:B:1945:TYR:CE2	2.54	0.43
1:B:2249:SER:O	1:B:2253:HIS:ND1	2.52	0.43
1:B:2574:HIS:CE1	1:B:2575:ARG:HG2	2.54	0.43
1:B:2878:LEU:HD21	1:B:2882:TYR:OH	2.19	0.43
1:B:3249:LEU:O	1:B:3253:ILE:HG12	2.19	0.43
1:B:3306:ALA:O	1:B:3308:THR:HG23	2.18	0.43
1:B:3433:GLU:HG3	1:B:3437:MET:SD	2.58	0.43
1:D:882:TRP:O	1:D:886:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1123:VAL:HG23	1:D:1132:TRP:HB2	2.01	0.43
1:D:1515:VAL:O	1:D:1515:VAL:HG13	2.19	0.43
1:D:1590:GLN:N	1:D:1590:GLN:OE1	2.52	0.43
1:D:2254:LEU:O	1:D:2255:SER:C	2.61	0.43
1:D:2348:GLU:O	1:D:2352:VAL:HG23	2.19	0.43
1:D:2892:GLN:HA	1:D:2895:GLU:OE1	2.19	0.43
1:D:3101:GLU:HA	1:D:3104:GLU:OE1	2.19	0.43
1:D:3105:LYS:HE2	1:D:3128:ASN:ND2	2.34	0.43
1:D:3386:GLU:O	1:D:3389:GLU:HB3	2.18	0.43
1:C:882:TRP:O	1:C:886:ARG:HG2	2.19	0.43
1:C:987:ARG:O	1:C:990:GLU:HB3	2.19	0.43
1:C:1052:ASN:OD1	1:C:1052:ASN:O	2.37	0.43
1:C:1087:ARG:HB3	1:C:1223:PHE:CD1	2.53	0.43
1:C:1929:MET:O	1:C:1930:LYS:CB	2.66	0.43
1:C:2212:VAL:HG11	1:C:2256:TYR:CE2	2.53	0.43
1:C:2313:LEU:HD12	1:C:2318:TYR:CG	2.54	0.43
1:C:2447:LYS:HD2	1:C:2450:ALA:H	1.83	0.43
1:C:2470:ILE:O	1:C:2499:LYS:NZ	2.45	0.43
1:C:3101:GLU:HA	1:C:3104:GLU:OE1	2.19	0.43
1:C:3332:ALA:CB	1:C:3335:MET:HE3	2.49	0.43
1:C:4061:PHE:CE2	1:C:4065:PHE:HE2	2.37	0.43
1:C:4798:MET:HE2	1:C:4811:ALA:CB	2.48	0.43
1:A:510:GLU:HG2	1:A:511:ALA:N	2.34	0.43
1:A:1052:ASN:OD1	1:A:1052:ASN:O	2.37	0.43
1:A:1698:LEU:C	1:A:1814:MET:HE1	2.44	0.43
1:A:2313:LEU:HD12	1:A:2318:TYR:CG	2.54	0.43
1:A:2314:LEU:HD21	1:A:2320:ASP:HA	2.00	0.43
1:A:2326:CYS:HA	1:A:2329:GLU:OE1	2.19	0.43
1:A:2348:GLU:O	1:A:2352:VAL:HG23	2.19	0.43
1:A:2376:LEU:O	1:A:2380:ILE:HG12	2.17	0.43
1:A:3101:GLU:HA	1:A:3104:GLU:OE1	2.19	0.43
1:A:3157:ILE:HG22	1:A:3162:GLN:HG3	1.98	0.43
1:A:3635:CYS:HA	1:A:3638:MET:HG3	2.01	0.43
1:A:3670:GLU:OE1	1:A:3670:GLU:N	2.51	0.43
1:A:4185:GLY:CA	1:A:4191:GLU:OE1	2.66	0.43
1:A:4911:LEU:O	1:A:4915:VAL:HG23	2.19	0.43
2:G:79:ASP:OD1	2:G:80:TYR:CD2	2.72	0.43
2:F:84:ALA:CA	2:F:94:HIS:CE1	3.02	0.43
1:B:28:VAL:O	1:B:29:LEU:HD23	2.18	0.43
1:B:281:ARG:HG3	1:B:312:THR:HG22	2.00	0.43
1:B:472:ARG:NE	1:B:532:GLY:O	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:789:VAL:HG12	1:B:790:ARG:N	2.34	0.43
1:B:898:ASP:HB2	1:B:901:LYS:HG2	2.01	0.43
1:B:1929:MET:O	1:B:1930:LYS:CB	2.66	0.43
1:B:2203:MET:HE2	1:B:2235:PHE:CZ	2.53	0.43
1:B:2255:SER:O	1:B:2259:GLU:OE1	2.37	0.43
1:B:2430:ILE:HG22	1:B:2505:PHE:HB2	2.01	0.43
1:B:2591:ARG:CZ	1:B:2636:PHE:HB3	2.49	0.43
1:B:2859:PRO:HB3	1:B:2932:MET:CE	2.48	0.43
1:B:2859:PRO:HB3	1:B:2932:MET:HE1	2.01	0.43
1:B:2894:LEU:HG	1:B:2897:LYS:HE3	2.01	0.43
1:B:3157:ILE:HA	1:B:3161:VAL:HG21	2.01	0.43
1:B:3227:ARG:HA	1:B:3230:LEU:HG	1.99	0.43
1:B:3384:LYS:O	1:B:3388:GLU:OE1	2.37	0.43
1:B:3628:ARG:HB3	1:B:3631:ALA:HB3	2.00	0.43
1:B:3640:PRO:HB2	1:B:3642:TYR:CE1	2.53	0.43
1:B:3729:MET:HE2	1:B:3770:LEU:HD13	2.01	0.43
1:B:3731:LYS:HA	1:B:3734:HIS:NE2	2.34	0.43
1:B:3985:LEU:O	1:B:3989:VAL:HG23	2.19	0.43
1:B:4833:ASN:ND2	1:B:4935:LEU:O	2.52	0.43
1:D:36:CYS:SG	1:D:65:CYS:HB3	2.58	0.43
1:D:246:TYR:CD1	1:D:375:LYS:HA	2.54	0.43
1:D:414:PHE:CE2	1:D:418:LEU:HD11	2.54	0.43
1:D:579:GLN:O	1:D:583:ILE:HD12	2.19	0.43
1:D:689:THR:HG23	1:D:776:LEU:O	2.19	0.43
1:D:748:LEU:HD11	1:D:771:PHE:HZ	1.84	0.43
1:D:1208:VAL:HG11	1:C:3575:LEU:HD21	2.01	0.43
1:D:2167:ILE:HG13	1:D:2168:VAL:N	2.33	0.43
1:D:2244:ARG:O	1:D:2247:GLN:HB3	2.19	0.43
1:D:2255:SER:O	1:D:2259:GLU:OE1	2.37	0.43
1:D:2879:ALA:HB1	1:D:2916:LYS:HZ2	1.83	0.43
1:D:3036:LYS:HA	1:D:3039:ILE:HG22	2.01	0.43
1:D:4820:VAL:HG12	1:D:4822:THR:N	2.33	0.43
1:D:4911:LEU:O	1:D:4915:VAL:HG23	2.19	0.43
1:C:689:THR:HG23	1:C:776:LEU:O	2.19	0.43
1:C:1298:HIS:HE1	1:C:1431:THR:HG23	1.83	0.43
1:C:1931:LEU:HD12	1:C:1939:MET:CE	2.46	0.43
1:C:2249:SER:O	1:C:2253:HIS:ND1	2.52	0.43
1:C:2430:ILE:HG22	1:C:2505:PHE:HB2	2.01	0.43
1:C:2574:HIS:CE1	1:C:2575:ARG:HG2	2.54	0.43
1:C:2591:ARG:CZ	1:C:2636:PHE:HB3	2.49	0.43
1:C:2859:PRO:HB3	1:C:2932:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3199:ALA:O	1:C:3283:ARG:HD2	2.19	0.43
1:C:3219:TYR:HA	1:C:3227:ARG:NH2	2.34	0.43
1:C:3540:TYR:OH	1:C:3597:GLN:O	2.37	0.43
1:C:3842:LEU:HD23	1:C:3842:LEU:HA	1.92	0.43
1:A:231:LEU:CD1	1:A:245:VAL:HG12	2.48	0.43
1:A:689:THR:HG23	1:A:776:LEU:O	2.19	0.43
1:A:1069:TRP:CZ3	1:A:1112:ASP:HB3	2.54	0.43
1:A:1575:LEU:O	1:A:1575:LEU:HD23	2.19	0.43
1:A:1930:LYS:C	1:A:1931:LEU:HG	2.43	0.43
1:A:2101:MET:HE3	1:A:2105:TRP:CZ3	2.54	0.43
1:A:2577:ILE:HG13	1:A:2578:MET:N	2.34	0.43
1:A:3346:VAL:HG11	1:A:3414:ARG:CB	2.49	0.43
1:A:3388:GLU:O	1:A:3391:GLU:HB3	2.19	0.43
1:A:3567:PRO:HA	1:A:3570:ARG:HB3	2.00	0.43
1:A:3941:ASP:OD1	1:A:3941:ASP:N	2.49	0.43
1:B:220:LEU:C	1:B:220:LEU:HD12	2.44	0.43
1:B:510:GLU:HG2	1:B:511:ALA:N	2.34	0.43
1:B:882:TRP:O	1:B:886:ARG:HG2	2.19	0.43
1:B:908:VAL:HG23	1:B:909:ASN:N	2.33	0.43
1:B:1052:ASN:O	1:B:1052:ASN:OD1	2.37	0.43
1:B:1476:MET:O	1:B:1484:HIS:N	2.51	0.43
1:B:1715:LEU:HD23	1:B:1720:LEU:CD1	2.49	0.43
1:B:2265:LEU:HA	1:B:2330:ARG:HD2	2.00	0.43
1:B:2382:GLU:HA	1:B:2385:ARG:CZ	2.48	0.43
1:B:2536:LEU:O	1:B:2538:THR:N	2.48	0.43
1:B:3105:LYS:HE2	1:B:3128:ASN:ND2	2.34	0.43
1:B:3660:ALA:HB3	1:B:3661:TRP:HD1	1.83	0.43
1:B:3768:SER:HA	1:B:3771:HIS:NE2	2.34	0.43
1:B:4024:VAL:HG11	1:B:4142:ASN:HB3	2.00	0.43
1:B:4242:ILE:HA	1:B:4245:MET:SD	2.59	0.43
1:B:4783:ILE:O	1:B:4786:ASP:OD1	2.36	0.43
1:B:4942:GLU:HA	1:B:4945:ASP:OD2	2.19	0.43
1:D:1715:LEU:HD23	1:D:1720:LEU:CD1	2.49	0.43
1:D:2430:ILE:HG22	1:D:2505:PHE:HB2	2.01	0.43
1:D:2920:ARG:O	1:D:2924:GLN:HG2	2.19	0.43
1:D:3159:ASP:O	1:D:3163:VAL:HG23	2.19	0.43
1:D:3249:LEU:O	1:D:3253:ILE:HG12	2.19	0.43
1:D:3331:GLU:OE2	1:D:3333:THR:HG23	2.19	0.43
1:D:3635:CYS:HA	1:D:3638:MET:HG3	2.01	0.43
1:C:591:ASP:O	1:C:1594:ARG:HD2	2.19	0.43
1:C:781:VAL:HG12	1:C:791:PHE:HZ	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:898:ASP:HB2	1:C:901:LYS:HG2	2.01	0.43
1:C:1555:LEU:HD23	1:C:1555:LEU:C	2.44	0.43
1:C:1849:LEU:HD22	1:C:1945:TYR:CE2	2.54	0.43
1:C:2326:CYS:HA	1:C:2329:GLU:OE1	2.19	0.43
1:C:2348:GLU:O	1:C:2352:VAL:HG23	2.19	0.43
1:C:2742:THR:O	1:C:2742:THR:HG22	2.19	0.43
1:C:3152:PHE:O	1:C:3156:VAL:HG23	2.19	0.43
1:C:3346:VAL:HG11	1:C:3414:ARG:CB	2.49	0.43
1:C:3731:LYS:HA	1:C:3734:HIS:NE2	2.34	0.43
1:C:3985:LEU:O	1:C:3989:VAL:HG23	2.19	0.43
1:A:426:ARG:HD2	1:A:506:TYR:O	2.19	0.42
1:A:472:ARG:NE	1:A:532:GLY:O	2.48	0.42
1:A:591:ASP:O	1:A:1594:ARG:HD2	2.19	0.42
1:A:748:LEU:HD11	1:A:771:PHE:HZ	1.84	0.42
1:A:925:SER:O	1:A:928:THR:OG1	2.35	0.42
1:A:987:ARG:O	1:A:990:GLU:HB3	2.19	0.42
1:A:1123:VAL:HG23	1:A:1132:TRP:HB2	2.01	0.42
1:A:2002:PRO:HB2	1:A:3652:MET:HE1	2.00	0.42
1:A:2325:PRO:O	1:A:2326:CYS:C	2.62	0.42
1:A:2894:LEU:HG	1:A:2897:LYS:HE3	2.01	0.42
1:A:3157:ILE:HA	1:A:3161:VAL:HG21	2.01	0.42
1:A:3456:GLN:CD	1:A:3499:ARG:NH2	2.77	0.42
1:A:3473:ASP:O	1:A:3477:LYS:HG2	2.19	0.42
1:A:3648:ARG:O	1:A:3652:MET:HG3	2.19	0.42
1:A:4833:ASN:ND2	1:A:4935:LEU:O	2.52	0.42
1:A:4942:GLU:HA	1:A:4945:ASP:OD2	2.19	0.42
2:G:32:ASP:OD1	2:G:33:GLY:N	2.52	0.42
1:B:1123:VAL:HG23	1:B:1132:TRP:HB2	2.01	0.42
1:B:1286:MET:CE	1:B:1555:LEU:HD12	2.46	0.42
1:B:1715:LEU:HD23	1:B:1720:LEU:HD12	2.01	0.42
1:B:2161:GLN:O	1:B:2165:LEU:HD13	2.17	0.42
1:B:2233:CYS:SG	1:B:2274:ASP:OD1	2.77	0.42
1:B:2756:ASN:O	1:B:2760:GLU:HG3	2.19	0.42
1:B:3199:ALA:O	1:B:3283:ARG:HD2	2.18	0.42
1:D:1778:SER:HB3	1:D:1798:LEU:HB2	2.00	0.42
1:D:2212:VAL:HG11	1:D:2256:TYR:CE2	2.53	0.42
1:D:2214:VAL:HG21	1:D:2228:MET:CE	2.41	0.42
1:D:2290:LEU:HD21	1:D:2295:LEU:HG	2.01	0.42
1:D:2313:LEU:HD12	1:D:2318:TYR:CG	2.54	0.42
1:D:3473:ASP:O	1:D:3477:LYS:HG2	2.19	0.42
1:D:4999:ASP:OD1	1:D:5001:THR:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:856:VAL:HG12	1:C:991:ASN:HD21	1.83	0.42
1:C:909:ASN:HB3	1:C:912:SER:HB2	2.01	0.42
1:C:965:TYR:CE2	1:C:967:PRO:HA	2.54	0.42
1:C:2495:VAL:HG23	1:C:2498:HIS:H	1.84	0.42
1:C:2878:LEU:HD21	1:C:2882:TYR:OH	2.19	0.42
1:C:4943:LEU:O	1:C:4947:GLN:HG2	2.18	0.42
1:A:214:VAL:HG22	1:A:341:TYR:CG	2.54	0.42
1:A:699:GLY:HA3	1:A:705:ASN:OD1	2.19	0.42
1:A:899:ASP:O	1:A:902:ARG:NH2	2.44	0.42
1:A:909:ASN:HB3	1:A:912:SER:HB2	2.01	0.42
1:A:1715:LEU:HD23	1:A:1720:LEU:CD1	2.49	0.42
1:A:1849:LEU:HD22	1:A:1945:TYR:CE2	2.54	0.42
1:A:2414:ASN:O	1:A:2415:ARG:C	2.62	0.42
1:A:2518:LEU:HD21	1:A:2569:PHE:CE2	2.54	0.42
1:A:2591:ARG:CZ	1:A:2636:PHE:HB3	2.49	0.42
1:A:2619:LEU:O	1:A:2620:GLN:C	2.61	0.42
1:A:3249:LEU:O	1:A:3253:ILE:HG12	2.19	0.42
1:A:3331:GLU:OE2	1:A:3333:THR:HG23	2.19	0.42
1:A:3386:GLU:O	1:A:3389:GLU:HB3	2.18	0.42
2:H:84:ALA:CA	2:H:94:HIS:CE1	3.02	0.42
1:B:856:VAL:HG12	1:B:991:ASN:HD21	1.83	0.42
1:B:2211:MET:HE3	1:B:2232:CYS:HB2	2.01	0.42
1:B:2326:CYS:HA	1:B:2329:GLU:OE1	2.19	0.42
1:B:2495:VAL:HG23	1:B:2498:HIS:H	1.84	0.42
1:B:2672:LEU:HD22	1:B:2710:LEU:HD13	2.00	0.42
1:B:3115:VAL:O	1:B:3116:SER:HB3	2.18	0.42
1:B:3168:THR:O	1:B:3172:ILE:HG12	2.19	0.42
1:B:3528:THR:HB	1:B:3560:GLN:OE1	2.19	0.42
1:B:3648:ARG:O	1:B:3652:MET:HG3	2.19	0.42
1:B:3734:HIS:O	1:B:3735:LEU:C	2.62	0.42
1:B:4767:TRP:CE2	1:B:4771:ILE:HD11	2.54	0.42
1:D:220:LEU:C	1:D:220:LEU:HD12	2.44	0.42
1:D:281:ARG:HG3	1:D:312:THR:HG22	2.00	0.42
1:D:939:VAL:HG23	1:D:1053:ILE:HD13	1.98	0.42
1:D:1052:ASN:OD1	1:D:1052:ASN:O	2.37	0.42
1:D:1422:ASP:OD1	1:D:1571:ASN:N	2.46	0.42
1:D:1983:ALA:HA	1:D:1986:MET:HE1	2.01	0.42
1:D:2619:LEU:O	1:D:2620:GLN:C	2.61	0.42
1:D:2894:LEU:HG	1:D:2897:LYS:HE3	2.01	0.42
1:D:3136:LEU:O	1:D:3140:LEU:HD13	2.20	0.42
1:D:3734:HIS:O	1:D:3735:LEU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4833:ASN:ND2	1:D:4935:LEU:O	2.52	0.42
1:C:231:LEU:CD1	1:C:245:VAL:HG12	2.48	0.42
1:C:421:PHE:CE2	1:C:507:ALA:HA	2.53	0.42
1:C:1069:TRP:CZ3	1:C:1112:ASP:HB3	2.54	0.42
1:C:1575:LEU:O	1:C:1575:LEU:HD23	2.19	0.42
1:C:1698:LEU:C	1:C:1814:MET:HE1	2.44	0.42
1:C:1715:LEU:HD23	1:C:1720:LEU:CD1	2.49	0.42
1:C:2167:ILE:HG13	1:C:2168:VAL:N	2.33	0.42
1:C:2214:VAL:HG21	1:C:2228:MET:CE	2.41	0.42
1:C:2265:LEU:HA	1:C:2330:ARG:HD2	2.00	0.42
1:C:2314:LEU:HD21	1:C:2320:ASP:HA	2.01	0.42
1:C:2518:LEU:HD21	1:C:2569:PHE:CE2	2.54	0.42
1:C:2619:LEU:O	1:C:2620:GLN:C	2.61	0.42
1:C:2627:VAL:HG22	1:C:2678:LEU:HB2	2.01	0.42
1:C:2892:GLN:HA	1:C:2895:GLU:OE1	2.18	0.42
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.30	0.42
1:C:3159:ASP:O	1:C:3163:VAL:HG23	2.19	0.42
1:C:3628:ARG:O	1:C:3631:ALA:N	2.42	0.42
1:C:3628:ARG:HB3	1:C:3631:ALA:HB3	2.00	0.42
1:C:3660:ALA:HB3	1:C:3661:TRP:HD1	1.84	0.42
1:A:781:VAL:HG12	1:A:791:PHE:HZ	1.84	0.42
1:A:1590:GLN:OE1	1:A:1590:GLN:N	2.52	0.42
1:A:2249:SER:O	1:A:2253:HIS:ND1	2.52	0.42
1:A:2313:LEU:HD11	1:A:2416:VAL:HB	2.00	0.42
1:A:2878:LEU:HD21	1:A:2882:TYR:OH	2.19	0.42
1:A:3105:LYS:HE2	1:A:3128:ASN:HD22	1.85	0.42
1:A:3249:LEU:HD21	1:A:3273:THR:HG22	2.01	0.42
1:A:3401:LEU:HD23	1:A:3451:PHE:CE1	2.54	0.42
1:A:3615:SER:O	1:A:3616:LYS:HB3	2.19	0.42
1:A:3988:ALA:O	1:A:3992:PHE:CD2	2.72	0.42
2:H:32:ASP:OD1	2:H:33:GLY:N	2.52	0.42
2:H:88:PRO:O	2:H:90:ILE:HD12	2.19	0.42
2:F:32:ASP:OD1	2:F:33:GLY:N	2.52	0.42
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.54	0.42
1:B:633:LEU:HD13	1:B:1639:LEU:HD11	2.00	0.42
1:B:689:THR:HG23	1:B:776:LEU:O	2.19	0.42
1:B:744:VAL:HG22	1:B:759:ILE:HD13	1.99	0.42
1:B:781:VAL:HG12	1:B:791:PHE:HZ	1.84	0.42
1:B:2518:LEU:HD21	1:B:2569:PHE:CE2	2.54	0.42
1:B:3219:TYR:HA	1:B:3227:ARG:NH2	2.34	0.42
1:B:3346:VAL:HG11	1:B:3414:ARG:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3400:VAL:HG23	1:B:3403:ARG:NH2	2.34	0.42
1:B:3988:ALA:O	1:B:3992:PHE:CD2	2.72	0.42
1:D:591:ASP:O	1:D:1594:ARG:HD2	2.19	0.42
1:D:684:VAL:HG22	1:D:781:VAL:HG23	2.01	0.42
1:D:781:VAL:HG12	1:D:791:PHE:HZ	1.84	0.42
1:D:886:ARG:HD3	1:D:891:TRP:CE3	2.55	0.42
1:D:1708:ARG:NH2	1:D:1837:GLN:O	2.49	0.42
1:D:2314:LEU:HD21	1:D:2320:ASP:HA	2.00	0.42
1:D:2414:ASN:O	1:D:2415:ARG:C	2.62	0.42
1:D:2495:VAL:HG23	1:D:2498:HIS:H	1.84	0.42
1:D:2518:LEU:HD21	1:D:2569:PHE:CE2	2.54	0.42
1:D:3249:LEU:HD21	1:D:3273:THR:HG22	2.01	0.42
1:D:3332:ALA:H	1:D:3403:ARG:NH1	2.17	0.42
1:D:3433:GLU:O	1:D:3437:MET:HG3	2.19	0.42
1:D:3615:SER:O	1:D:3616:LYS:HB3	2.20	0.42
1:D:3616:LYS:HA	1:D:3619:VAL:HG22	2.01	0.42
1:D:4747:SER:HA	1:D:4750:ILE:HG12	2.00	0.42
1:C:414:PHE:CE2	1:C:418:LEU:HD11	2.54	0.42
1:C:887:ILE:HG23	1:C:959:TYR:CE2	2.55	0.42
1:C:1024:TYR:O	1:C:1027:LEU:N	2.48	0.42
1:C:2135:LEU:O	1:C:2139:PRO:HD3	2.18	0.42
1:C:2244:ARG:O	1:C:2247:GLN:HB3	2.19	0.42
1:C:2894:LEU:HG	1:C:2897:LYS:HE3	2.01	0.42
1:C:3249:LEU:O	1:C:3253:ILE:HG12	2.19	0.42
1:C:3473:ASP:O	1:C:3477:LYS:HG2	2.20	0.42
1:C:4067:LYS:O	1:C:4070:ASP:OD1	2.36	0.42
1:C:4747:SER:HA	1:C:4750:ILE:HG12	2.00	0.42
1:C:4911:LEU:O	1:C:4915:VAL:HG23	2.19	0.42
1:C:4999:ASP:OD1	1:C:5001:THR:N	2.52	0.42
1:A:281:ARG:HG3	1:A:312:THR:HG22	2.00	0.42
1:A:579:GLN:O	1:A:583:ILE:HD12	2.19	0.42
1:A:842:PRO:O	1:A:1196:PRO:HA	2.19	0.42
1:A:1639:LEU:HD23	1:A:1639:LEU:C	2.45	0.42
1:A:2230:THR:HG23	1:A:2270:SER:CB	2.49	0.42
1:A:2255:SER:O	1:A:2259:GLU:OE1	2.37	0.42
1:A:2690:LYS:HD3	1:A:2691:TYR:O	2.20	0.42
1:A:2707:ALA:HB1	1:A:3009:TYR:CD1	2.55	0.42
1:A:2755:ILE:HD13	1:A:2810:LYS:HG3	2.02	0.42
1:A:2920:ARG:O	1:A:2924:GLN:HG2	2.19	0.42
1:A:3168:THR:O	1:A:3172:ILE:HG12	2.19	0.42
1:A:3219:TYR:HA	1:A:3227:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3319:ILE:O	1:A:3323:ILE:HG12	2.19	0.42
1:A:3528:THR:HB	1:A:3560:GLN:OE1	2.19	0.42
1:A:3548:GLU:O	1:A:3551:GLU:HG3	2.19	0.42
1:A:4242:ILE:HA	1:A:4245:MET:SD	2.59	0.42
2:G:85:THR:HG21	1:C:1786:LEU:CD2	2.49	0.42
1:B:214:VAL:HG22	1:B:341:TYR:CG	2.54	0.42
1:B:426:ARG:HD2	1:B:506:TYR:O	2.19	0.42
1:B:545:ASP:OD1	1:B:546:TRP:N	2.52	0.42
1:B:1927:LEU:HD12	1:B:2097:LEU:HD11	2.02	0.42
1:B:2244:ARG:O	1:B:2247:GLN:HB3	2.19	0.42
1:B:2577:ILE:HG13	1:B:2578:MET:N	2.34	0.42
1:B:2619:LEU:O	1:B:2620:GLN:C	2.61	0.42
1:B:2819:TRP:O	1:B:2821:TRP:CG	2.72	0.42
1:B:2960:LEU:HD22	1:B:3038:MET:HB3	2.01	0.42
1:B:3136:LEU:O	1:B:3140:LEU:HD13	2.20	0.42
1:B:4863:TYR:HH	1:B:4886:HIS:HE2	1.66	0.42
1:D:426:ARG:HD2	1:D:506:TYR:O	2.19	0.42
1:D:950:LEU:HD21	1:D:1048:GLY:O	2.18	0.42
1:D:1069:TRP:CZ3	1:D:1112:ASP:HB3	2.54	0.42
1:D:1931:LEU:HD12	1:D:1939:MET:CE	2.46	0.42
1:D:2230:THR:HG23	1:D:2270:SER:CB	2.49	0.42
1:D:2325:PRO:O	1:D:2326:CYS:C	2.62	0.42
1:D:2536:LEU:O	1:D:2538:THR:N	2.48	0.42
1:D:2859:PRO:HB3	1:D:2932:MET:HE1	2.01	0.42
1:D:3168:THR:O	1:D:3172:ILE:HG12	2.19	0.42
1:D:3329:ILE:O	1:D:3403:ARG:NH2	2.51	0.42
1:D:3332:ALA:CB	1:D:3335:MET:HE3	2.49	0.42
1:D:3401:LEU:HD23	1:D:3451:PHE:CE1	2.54	0.42
1:D:3409:TYR:N	1:D:3410:PRO:HD2	2.34	0.42
1:D:4067:LYS:O	1:D:4070:ASP:OD1	2.36	0.42
1:D:4221:VAL:O	1:D:4225:GLY:N	2.51	0.42
1:C:1123:VAL:HG23	1:C:1132:TRP:HB2	2.01	0.42
1:C:1515:VAL:O	1:C:1515:VAL:HG13	2.19	0.42
1:C:1639:LEU:HD23	1:C:1639:LEU:C	2.45	0.42
1:C:1927:LEU:HD12	1:C:2097:LEU:HD11	2.02	0.42
1:C:2775:TRP:CH2	1:C:2786:LYS:HE2	2.53	0.42
1:C:2859:PRO:HB3	1:C:2932:MET:HE1	2.01	0.42
1:C:3319:ILE:O	1:C:3323:ILE:HG12	2.19	0.42
1:C:3332:ALA:H	1:C:3403:ARG:NH1	2.17	0.42
1:C:3456:GLN:CD	1:C:3499:ARG:NH2	2.77	0.42
1:C:4242:ILE:HA	1:C:4245:MET:SD	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4767:TRP:CE2	1:C:4771:ILE:HD11	2.54	0.42
1:A:20:VAL:HG12	1:A:204:PRO:HA	2.01	0.42
1:A:414:PHE:CE2	1:A:418:LEU:HD11	2.54	0.42
1:A:913:LEU:O	1:A:918:ARG:NE	2.53	0.42
1:A:2203:MET:HE2	1:A:2235:PHE:CE1	2.55	0.42
1:A:2872:GLN:O	1:A:2873:ALA:C	2.61	0.42
1:A:3105:LYS:HE2	1:A:3128:ASN:ND2	2.34	0.42
1:A:3332:ALA:CB	1:A:3335:MET:HE3	2.49	0.42
1:A:3616:LYS:HA	1:A:3619:VAL:HG22	2.01	0.42
1:A:3985:LEU:O	1:A:3989:VAL:HG23	2.19	0.42
1:B:110:ARG:HD2	1:B:115:ARG:HH21	1.85	0.42
1:B:388:LEU:HD23	1:B:388:LEU:H	1.85	0.42
1:B:647:ASN:ND2	1:B:820:ARG:O	2.52	0.42
1:B:842:PRO:O	1:B:1196:PRO:HA	2.20	0.42
1:B:2313:LEU:HD12	1:B:2318:TYR:CG	2.54	0.42
1:B:2347:GLU:OE1	1:B:2347:GLU:N	2.41	0.42
1:B:2414:ASN:O	1:B:2415:ARG:C	2.62	0.42
1:B:2463:LEU:HD21	1:B:2517:PHE:CZ	2.55	0.42
1:B:2892:GLN:HA	1:B:2895:GLU:OE1	2.18	0.42
1:B:2992:GLU:HA	1:B:2995:ILE:HD12	2.02	0.42
1:B:3388:GLU:O	1:B:3391:GLU:HB3	2.19	0.42
1:B:4145:VAL:HG13	1:B:4194:TYR:HB2	2.01	0.42
1:B:4673:ARG:O	1:B:4676:GLU:HG3	2.18	0.42
1:D:647:ASN:ND2	1:D:820:ARG:O	2.52	0.42
1:D:1555:LEU:C	1:D:1555:LEU:HD23	2.44	0.42
1:D:2591:ARG:CZ	1:D:2636:PHE:HB3	2.49	0.42
1:D:2690:LYS:HD3	1:D:2691:TYR:O	2.20	0.42
1:D:2707:ALA:HB1	1:D:3009:TYR:CD1	2.55	0.42
1:D:2736:ASP:OD1	1:D:2736:ASP:O	2.37	0.42
1:D:2819:TRP:O	1:D:2821:TRP:CG	2.73	0.42
1:D:2960:LEU:HD22	1:D:3038:MET:HB3	2.01	0.42
1:D:2970:SER:O	1:D:2974:ILE:HG12	2.18	0.42
1:C:110:ARG:HD2	1:C:115:ARG:HH21	1.85	0.42
1:C:400:ALA:O	1:C:404:ILE:HG12	2.20	0.42
1:C:583:ILE:H	1:C:583:ILE:HD12	1.84	0.42
1:C:789:VAL:HG12	1:C:790:ARG:N	2.34	0.42
1:C:886:ARG:HD3	1:C:891:TRP:CE3	2.54	0.42
1:C:942:ALA:HB3	1:C:1050:GLY:O	2.20	0.42
1:C:2203:MET:HE2	1:C:2235:PHE:CE1	2.55	0.42
1:C:2577:ILE:HG13	1:C:2578:MET:N	2.34	0.42
1:C:2819:TRP:O	1:C:2821:TRP:CG	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3136:LEU:O	1:C:3140:LEU:HD13	2.20	0.42
1:C:3157:ILE:HA	1:C:3161:VAL:HG21	2.01	0.42
1:C:3386:GLU:O	1:C:3389:GLU:HB3	2.18	0.42
1:C:3388:GLU:O	1:C:3391:GLU:HB3	2.19	0.42
1:C:3400:VAL:HG23	1:C:3403:ARG:NH2	2.34	0.42
1:C:3988:ALA:O	1:C:3992:PHE:CD2	2.72	0.42
1:C:4010:ILE:O	1:C:4014:LYS:HG3	2.20	0.42
1:C:4942:GLU:HA	1:C:4945:ASP:OD2	2.19	0.42
1:A:975:VAL:HG12	1:A:976:ARG:N	2.35	0.42
1:A:2167:ILE:HG13	1:A:2168:VAL:N	2.33	0.42
1:A:2495:VAL:HG23	1:A:2498:HIS:H	1.84	0.42
1:A:2736:ASP:OD1	1:A:2736:ASP:O	2.37	0.42
1:A:2819:TRP:O	1:A:2821:TRP:CG	2.72	0.42
1:A:3159:ASP:O	1:A:3163:VAL:HG23	2.19	0.42
1:A:3332:ALA:H	1:A:3403:ARG:NH1	2.18	0.42
1:A:4024:VAL:HG11	1:A:4142:ASN:HB3	2.00	0.42
1:A:4178:LEU:HD23	1:A:4178:LEU:C	2.45	0.42
2:E:88:PRO:O	2:E:90:ILE:HD12	2.19	0.42
1:B:208:CYS:O	1:B:334:MET:HG3	2.19	0.42
1:B:400:ALA:O	1:B:404:ILE:HG12	2.20	0.42
1:B:748:LEU:HD11	1:B:771:PHE:HZ	1.84	0.42
1:B:1983:ALA:HA	1:B:1986:MET:HE1	2.01	0.42
1:B:2182:ILE:O	1:B:2186:MET:CE	2.67	0.42
1:B:2203:MET:HE2	1:B:2235:PHE:CE1	2.55	0.42
1:B:2214:VAL:HG21	1:B:2228:MET:CE	2.41	0.42
1:B:2742:THR:O	1:B:2742:THR:HG22	2.19	0.42
1:B:3331:GLU:OE2	1:B:3333:THR:HG23	2.19	0.42
1:B:3473:ASP:O	1:B:3477:LYS:HG2	2.20	0.42
1:B:3615:SER:O	1:B:3616:LYS:HB3	2.19	0.42
1:B:4010:ILE:O	1:B:4014:LYS:HG3	2.20	0.42
1:B:4021:LYS:N	1:B:4139:ILE:HD13	2.34	0.42
1:D:699:GLY:HA3	1:D:705:ASN:OD1	2.19	0.42
1:D:887:ILE:HG23	1:D:959:TYR:CE2	2.55	0.42
1:D:898:ASP:HB2	1:D:901:LYS:HG2	2.01	0.42
1:D:965:TYR:CE2	1:D:967:PRO:HA	2.54	0.42
1:D:1153:ILE:CD1	1:D:1155:LEU:HD21	2.47	0.42
1:D:1218:GLY:O	1:D:1222:GLY:N	2.50	0.42
1:D:2313:LEU:HD11	1:D:2416:VAL:HB	2.00	0.42
1:D:2755:ILE:HD13	1:D:2810:LYS:HG3	2.02	0.42
1:D:2824:GLU:OE1	1:D:2824:GLU:N	2.53	0.42
1:D:2878:LEU:HD21	1:D:2882:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3319:ILE:O	1:D:3323:ILE:HG12	2.19	0.42
1:D:3875:MET:CE	1:D:3953:LYS:HG3	2.50	0.42
1:C:1715:LEU:HD23	1:C:1720:LEU:HD12	2.01	0.42
1:C:2329:GLU:HG3	1:C:2425:PHE:HA	2.01	0.42
1:C:2514:ASN:OD1	1:C:2514:ASN:N	2.53	0.42
1:C:2960:LEU:HD22	1:C:3038:MET:HB3	2.01	0.42
1:C:3331:GLU:OE2	1:C:3333:THR:HG23	2.19	0.42
1:C:3556:ASN:O	1:C:3559:LEU:N	2.37	0.42
1:C:4021:LYS:N	1:C:4139:ILE:HD13	2.34	0.42
1:A:400:ALA:O	1:A:404:ILE:HG12	2.20	0.42
1:A:647:ASN:ND2	1:A:820:ARG:O	2.52	0.42
1:A:730:VAL:HA	1:A:1476:MET:CE	2.50	0.42
1:A:856:VAL:HG12	1:A:991:ASN:HD21	1.83	0.42
1:A:879:HIS:CE1	1:A:913:LEU:HD13	2.55	0.42
1:A:882:TRP:O	1:A:886:ARG:HG2	2.19	0.42
1:A:887:ILE:HG23	1:A:959:TYR:CE2	2.55	0.42
1:A:2182:ILE:O	1:A:2186:MET:SD	2.78	0.42
1:A:3433:GLU:O	1:A:3437:MET:HG3	2.19	0.42
1:A:4045:VAL:O	1:A:4049:VAL:HG23	2.19	0.42
1:A:4956:THR:O	1:A:4965:SER:N	2.53	0.42
2:G:88:PRO:O	2:G:90:ILE:HD12	2.19	0.42
1:B:730:VAL:HA	1:B:1476:MET:CE	2.50	0.42
1:B:829:TYR:O	1:B:840:VAL:N	2.42	0.42
1:B:879:HIS:CE1	1:B:913:LEU:HD13	2.55	0.42
1:B:887:ILE:HG23	1:B:959:TYR:CE2	2.54	0.42
1:B:906:CYS:SG	1:B:913:LEU:HB2	2.60	0.42
1:B:1590:GLN:OE1	1:B:1590:GLN:N	2.52	0.42
1:B:2282:ASP:HA	1:B:2341:VAL:HG13	2.02	0.42
1:B:2824:GLU:N	1:B:2824:GLU:OE1	2.53	0.42
1:B:3105:LYS:HE2	1:B:3128:ASN:HD22	1.84	0.42
1:B:3137:LEU:HG	1:B:3193:CYS:SG	2.60	0.42
1:B:4090:LYS:HD2	1:B:4123:ILE:HD11	2.02	0.42
1:D:20:VAL:HG12	1:D:204:PRO:HA	2.01	0.42
1:D:906:CYS:SG	1:D:913:LEU:HB2	2.60	0.42
1:D:2329:GLU:HG3	1:D:2425:PHE:HA	2.01	0.42
1:D:2463:LEU:HD21	1:D:2517:PHE:CZ	2.55	0.42
1:D:2574:HIS:CE1	1:D:2575:ARG:HG2	2.54	0.42
1:D:3219:TYR:HA	1:D:3227:ARG:NH2	2.34	0.42
1:D:3388:GLU:O	1:D:3391:GLU:HB3	2.19	0.42
1:D:4767:TRP:CE2	1:D:4771:ILE:HD11	2.54	0.42
1:D:4864:ASN:O	1:D:4902:GLU:OE2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:LEU:C	1:C:220:LEU:HD12	2.44	0.42
1:C:336:PRO:HA	1:C:337:PRO:HD3	1.89	0.42
1:C:667:MET:HB2	1:C:743:VAL:HG22	2.02	0.42
1:C:2233:CYS:SG	1:C:2274:ASP:OD1	2.77	0.42
1:C:2435:ARG:O	1:C:2508:ARG:NH2	2.53	0.42
1:C:3036:LYS:HA	1:C:3039:ILE:HG22	2.01	0.42
1:C:3137:LEU:HG	1:C:3193:CYS:SG	2.60	0.42
1:C:3336:LYS:O	1:C:3340:VAL:HG13	2.20	0.42
1:C:3433:GLU:O	1:C:3437:MET:HG3	2.19	0.42
1:C:4651:THR:OG1	1:C:4803:HIS:NE2	2.50	0.42
1:C:4833:ASN:ND2	1:C:4935:LEU:O	2.52	0.42
1:A:220:LEU:HD12	1:A:220:LEU:C	2.44	0.42
1:A:403:MET:HE1	1:A:451:TYR:CD2	2.55	0.42
1:A:1153:ILE:CD1	1:A:1155:LEU:HD21	2.47	0.42
1:A:1701:ALA:HB1	1:A:1830:VAL:HG22	2.02	0.42
1:A:2270:SER:HA	1:A:2274:ASP:OD2	2.20	0.42
1:A:2971:GLN:CD	1:A:3049:LEU:HD13	2.45	0.42
1:A:2992:GLU:HA	1:A:2995:ILE:HD12	2.02	0.42
1:A:3137:LEU:HG	1:A:3193:CYS:SG	2.60	0.42
1:A:3409:TYR:N	1:A:3410:PRO:HD2	2.34	0.42
1:A:3734:HIS:O	1:A:3735:LEU:C	2.62	0.42
1:A:4021:LYS:N	1:A:4139:ILE:HD13	2.34	0.42
1:A:4880:MET:SD	1:D:4578:LEU:O	2.77	0.42
1:B:156:GLN:NE2	1:B:157:ARG:HG2	2.35	0.42
1:B:576:ASN:OD1	1:B:2169:GLN:NE2	2.53	0.42
1:B:684:VAL:HG22	1:B:781:VAL:HG23	2.01	0.42
1:B:1423:ASP:HB3	1:B:1426:ILE:HD12	2.02	0.42
1:B:1705:GLY:HA3	1:B:1836:PHE:CG	2.55	0.42
1:B:2612[A]:ARG:NH1	1:B:2613:TYR:CD2	2.88	0.42
1:B:3152:PHE:O	1:B:3156:VAL:HG23	2.19	0.42
1:B:4687:TYR:CD2	1:B:4706:LEU:HD11	2.55	0.42
1:D:789:VAL:HG12	1:D:790:ARG:N	2.34	0.42
1:D:1701:ALA:HB1	1:D:1830:VAL:HG22	2.02	0.42
1:D:2992:GLU:HA	1:D:2995:ILE:HD12	2.02	0.42
1:D:3384:LYS:NZ	1:D:3386:GLU:HB3	2.35	0.42
1:D:3548:GLU:O	1:D:3551:GLU:HG3	2.19	0.42
1:D:3579:LEU:HD23	1:D:3581:GLY:H	1.85	0.42
1:D:4021:LYS:N	1:D:4139:ILE:HD13	2.35	0.42
1:D:4687:TYR:CD2	1:D:4706:LEU:HD11	2.55	0.42
1:C:156:GLN:NE2	1:C:157:ARG:HG2	2.35	0.42
1:C:164:ARG:HB2	1:C:167:ASP:OD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:349:GLN:NE2	1:C:354:GLY:O	2.51	0.42
1:C:684:VAL:HG22	1:C:781:VAL:HG23	2.01	0.42
1:C:699:GLY:HA3	1:C:705:ASN:OD1	2.19	0.42
1:C:906:CYS:SG	1:C:913:LEU:HB2	2.60	0.42
1:C:909:ASN:ND2	1:C:965:TYR:CD2	2.78	0.42
1:C:2101:MET:HE3	1:C:2105:TRP:CZ3	2.54	0.42
1:C:2182:ILE:O	1:C:2186:MET:SD	2.78	0.42
1:C:2414:ASN:O	1:C:2415:ARG:C	2.62	0.42
1:C:2690:LYS:HD3	1:C:2691:TYR:O	2.20	0.42
1:C:2756:ASN:O	1:C:2760:GLU:HG3	2.19	0.42
1:C:2824:GLU:OE1	1:C:2824:GLU:N	2.53	0.42
1:C:2874:MET:O	1:C:2878:LEU:HB2	2.20	0.42
1:C:2992:GLU:HA	1:C:2995:ILE:HD12	2.02	0.42
1:C:3635:CYS:HA	1:C:3638:MET:HG3	2.01	0.42
1:C:4221:VAL:O	1:C:4225:GLY:N	2.51	0.42
1:C:4687:TYR:CD2	1:C:4706:LEU:HD11	2.55	0.42
1:A:156:GLN:NE2	1:A:157:ARG:HG2	2.35	0.42
1:A:886:ARG:HD3	1:A:891:TRP:CE3	2.54	0.42
1:A:1555:LEU:C	1:A:1555:LEU:HD23	2.44	0.42
1:A:2182:ILE:O	1:A:2186:MET:CE	2.67	0.42
1:A:2211:MET:HE3	1:A:2232:CYS:HB2	2.01	0.42
1:A:2463:LEU:HD21	1:A:2517:PHE:CZ	2.55	0.42
1:A:2672:LEU:HD22	1:A:2710:LEU:HD13	2.00	0.42
1:A:2874:MET:O	1:A:2878:LEU:HB2	2.20	0.42
1:A:3540:TYR:OH	1:A:3597:GLN:O	2.37	0.42
1:A:3731:LYS:HA	1:A:3734:HIS:NE2	2.34	0.42
1:A:3842:LEU:HD23	1:A:3842:LEU:HA	1.92	0.42
1:A:4687:TYR:CD2	1:A:4706:LEU:HD11	2.55	0.42
1:A:4782:VAL:O	1:A:4785:THR:OG1	2.32	0.42
2:H:102:GLU:OE2	2:H:104:LEU:CD2	2.68	0.42
1:B:164:ARG:HB2	1:B:167:ASP:OD2	2.20	0.42
1:B:233:ILE:HG22	1:B:284:HIS:HE1	1.85	0.42
1:B:349:GLN:NE2	1:B:354:GLY:O	2.51	0.42
1:B:2254:LEU:O	1:B:2255:SER:C	2.61	0.42
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.20	0.42
1:B:3433:GLU:O	1:B:3437:MET:HG3	2.19	0.42
1:B:4061:PHE:CE2	1:B:4065:PHE:HE2	2.37	0.42
1:D:214:VAL:HG22	1:D:341:TYR:CG	2.54	0.42
1:D:1698:LEU:C	1:D:1814:MET:HE1	2.44	0.42
1:D:2182:ILE:O	1:D:2186:MET:CE	2.67	0.42
1:D:2756:ASN:O	1:D:2760:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3253:ILE:HG22	1:D:3318:ASN:HB3	2.02	0.42
1:D:3400:VAL:HG23	1:D:3403:ARG:NH2	2.34	0.42
1:D:3648:ARG:O	1:D:3652:MET:HG3	2.19	0.42
1:D:3853:ALA:O	1:D:3856:LEU:HD12	2.20	0.42
1:D:4090:LYS:HD2	1:D:4123:ILE:HD11	2.02	0.42
1:D:4942:GLU:HA	1:D:4945:ASP:OD2	2.19	0.42
1:C:403:MET:HE1	1:C:451:TYR:CD2	2.55	0.42
1:C:510:GLU:HG2	1:C:511:ALA:N	2.34	0.42
1:C:514:SER:HB2	1:C:518:ILE:HD11	2.02	0.42
1:C:842:PRO:O	1:C:1196:PRO:HA	2.19	0.42
1:C:1126:GLY:O	1:C:1129:GLY:N	2.44	0.42
1:C:1423:ASP:HB3	1:C:1426:ILE:HD12	2.02	0.42
1:C:2088:GLU:OE1	1:C:2088:GLU:N	2.53	0.42
1:C:2182:ILE:O	1:C:2186:MET:CE	2.67	0.42
1:C:2211:MET:HE3	1:C:2232:CYS:HB2	2.01	0.42
1:C:2441:HIS:O	1:C:2444:GLN:OE1	2.38	0.42
1:C:3528:THR:HB	1:C:3560:GLN:OE1	2.19	0.42
1:C:4090:LYS:HD2	1:C:4123:ILE:HD11	2.02	0.42
1:C:4145:VAL:HG13	1:C:4194:TYR:HB2	2.01	0.42
1:A:388:LEU:HD23	1:A:388:LEU:H	1.85	0.42
1:A:915:GLU:OE2	1:A:918:ARG:NH1	2.53	0.42
1:A:1983:ALA:HA	1:A:1986:MET:HE1	2.01	0.42
1:A:2290:LEU:HD21	1:A:2295:LEU:HG	2.01	0.42
1:A:2329:GLU:HG3	1:A:2425:PHE:HA	2.01	0.42
1:A:2435:ARG:O	1:A:2508:ARG:NH2	2.53	0.42
1:A:2575:ARG:HD3	1:A:2578:MET:CE	2.50	0.42
2:G:57:ARG:CZ	2:G:80:TYR:CE1	3.03	0.42
2:G:102:GLU:OE2	2:G:104:LEU:CD2	2.68	0.42
1:B:403:MET:HE1	1:B:451:TYR:CD2	2.55	0.42
1:B:886:ARG:HD3	1:B:891:TRP:CE3	2.55	0.42
1:B:975:VAL:HG12	1:B:976:ARG:N	2.35	0.42
1:B:1698:LEU:C	1:B:1814:MET:HE1	2.44	0.42
1:B:1698:LEU:HD22	1:B:1712:TYR:CE1	2.55	0.42
1:B:2222:GLU:O	1:B:2224:ARG:NH1	2.48	0.42
1:B:2290:LEU:HD21	1:B:2295:LEU:HG	2.01	0.42
1:B:2736:ASP:OD1	1:B:2736:ASP:O	2.37	0.42
1:B:3036:LYS:HA	1:B:3039:ILE:HG22	2.01	0.42
1:B:3336:LYS:O	1:B:3340:VAL:HG13	2.20	0.42
1:B:3409:TYR:N	1:B:3410:PRO:HD2	2.34	0.42
1:B:3814:GLN:NE2	1:B:3818:ASP:OD1	2.53	0.42
1:B:4651:THR:HG1	1:B:4799:SER:HG	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4956:THR:O	1:B:4965:SER:N	2.53	0.42
1:D:576:ASN:OD1	1:D:2169:GLN:NE2	2.53	0.42
1:D:1849:LEU:HD22	1:D:1945:TYR:CE2	2.54	0.42
1:D:2270:SER:HA	1:D:2274:ASP:OD2	2.20	0.42
1:D:2816:MET:CE	1:D:2823:ILE:HD12	2.50	0.42
1:D:3384:LYS:O	1:D:3388:GLU:OE1	2.37	0.42
1:D:4010:ILE:O	1:D:4014:LYS:HG3	2.20	0.42
1:D:4178:LEU:HD23	1:D:4178:LEU:C	2.45	0.42
1:D:4242:ILE:HA	1:D:4245:MET:SD	2.59	0.42
1:C:281:ARG:HG3	1:C:312:THR:HG22	2.00	0.42
1:C:388:LEU:HD23	1:C:388:LEU:H	1.85	0.42
1:C:426:ARG:HD2	1:C:506:TYR:O	2.19	0.42
1:C:975:VAL:HG12	1:C:976:ARG:N	2.35	0.42
1:C:2182:ILE:HG13	1:C:2183:GLY:N	2.35	0.42
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.20	0.42
1:C:2612[A]:ARG:NH1	1:C:2613:TYR:CD2	2.88	0.42
1:C:2927:LEU:HD11	1:C:2937:VAL:HG11	2.01	0.42
1:C:3253:ILE:HG22	1:C:3318:ASN:HB3	2.02	0.42
1:C:3384:LYS:O	1:C:3388:GLU:OE1	2.37	0.42
1:C:3384:LYS:NZ	1:C:3386:GLU:HB3	2.35	0.42
1:C:3498:ARG:HG3	1:C:3501:ASP:H	1.85	0.42
1:C:3875:MET:CE	1:C:3953:LYS:HG3	2.50	0.42
1:C:4178:LEU:HD23	1:C:4178:LEU:C	2.45	0.42
1:C:4848:VAL:O	1:C:4852:THR:OG1	2.38	0.42
1:A:1102:VAL:HG11	1:A:1149:VAL:CG1	2.47	0.41
1:A:2088:GLU:OE1	1:A:2088:GLU:N	2.53	0.41
1:A:2265:LEU:HA	1:A:2330:ARG:HD2	2.00	0.41
1:A:3253:ILE:HG22	1:A:3318:ASN:HB3	2.02	0.41
1:A:4767:TRP:CE2	1:A:4771:ILE:HD11	2.54	0.41
1:B:942:ALA:HB3	1:B:1050:GLY:O	2.20	0.41
1:B:1102:VAL:HG11	1:B:1149:VAL:CG1	2.47	0.41
1:B:1555:LEU:HD23	1:B:1555:LEU:C	2.44	0.41
1:B:2088:GLU:OE1	1:B:2088:GLU:N	2.53	0.41
1:B:2325:PRO:O	1:B:2326:CYS:C	2.62	0.41
1:B:2707:ALA:HB1	1:B:3009:TYR:CD1	2.55	0.41
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	2.02	0.41
1:B:3326:ASN:O	1:B:3335:MET:HE1	2.20	0.41
1:B:3456:GLN:CD	1:B:3499:ARG:NH2	2.77	0.41
1:B:3616:LYS:HA	1:B:3619:VAL:HG22	2.01	0.41
1:B:4999:ASP:OD1	1:B:5001:THR:N	2.52	0.41
1:D:400:ALA:O	1:D:404:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:667:MET:HB2	1:D:743:VAL:HG22	2.02	0.41
1:D:975:VAL:HG12	1:D:976:ARG:N	2.35	0.41
1:D:2265:LEU:HA	1:D:2330:ARG:HD2	2.00	0.41
1:D:2874:MET:O	1:D:2878:LEU:HB2	2.20	0.41
1:D:2971:GLN:CD	1:D:3049:LEU:HD13	2.45	0.41
1:D:3137:LEU:HG	1:D:3193:CYS:SG	2.60	0.41
1:D:3336:LYS:O	1:D:3340:VAL:HG13	2.20	0.41
1:D:4070:ASP:OD1	1:D:4070:ASP:C	2.63	0.41
1:D:4942:GLU:O	1:D:4946:GLN:HG3	2.20	0.41
1:C:579:GLN:O	1:C:583:ILE:HD12	2.19	0.41
1:C:759:ILE:HG23	1:C:762:CYS:HG	1.85	0.41
1:C:1698:LEU:HD22	1:C:1712:TYR:CE1	2.55	0.41
1:C:2347:GLU:OE1	1:C:2347:GLU:N	2.41	0.41
1:C:2381:GLU:HB3	1:C:2385:ARG:HH12	1.85	0.41
1:C:3168:THR:O	1:C:3172:ILE:HG12	2.19	0.41
1:C:3401:LEU:HD23	1:C:3451:PHE:CE1	2.54	0.41
1:C:3548:GLU:O	1:C:3551:GLU:HG3	2.19	0.41
1:C:3579:LEU:HD23	1:C:3581:GLY:H	1.85	0.41
1:C:3814:GLN:NE2	1:C:3818:ASP:OD1	2.53	0.41
1:A:164:ARG:HB2	1:A:167:ASP:OD2	2.20	0.41
1:A:183:SER:N	1:A:190:GLN:O	2.51	0.41
1:A:576:ASN:OD1	1:A:2169:GLN:NE2	2.53	0.41
1:A:684:VAL:HG22	1:A:781:VAL:HG23	2.01	0.41
1:A:710:ASP:OD1	1:A:713:SER:OG	2.36	0.41
1:A:769:GLU:OE1	1:A:769:GLU:N	2.53	0.41
1:A:1286:MET:HG2	1:A:1462:MET:O	2.20	0.41
1:A:2233:CYS:SG	1:A:2274:ASP:OD1	2.77	0.41
1:A:2441:HIS:O	1:A:2444:GLN:OE1	2.38	0.41
1:A:2496:PRO:O	1:A:2553:TYR:CD1	2.74	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:CD2	2.89	0.41
1:A:3336:LYS:O	1:A:3340:VAL:HG13	2.20	0.41
1:A:3498:ARG:HG3	1:A:3501:ASP:H	1.85	0.41
1:A:3579:LEU:HD23	1:A:3581:GLY:H	1.85	0.41
2:G:84:ALA:CA	2:G:94:HIS:CE1	3.02	0.41
1:B:514:SER:HB2	1:B:518:ILE:HD11	2.02	0.41
1:B:2874:MET:O	1:B:2878:LEU:HB2	2.20	0.41
1:B:2971:GLN:CD	1:B:3049:LEU:HD13	2.45	0.41
1:D:403:MET:HE1	1:D:451:TYR:CD2	2.55	0.41
1:D:445:LEU:O	1:D:449:ILE:HG12	2.20	0.41
1:D:769:GLU:OE1	1:D:769:GLU:N	2.53	0.41
1:D:856:VAL:HG12	1:D:991:ASN:HD21	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1716:ILE:O	1:D:1721:GLU:N	2.53	0.41
1:D:2182:ILE:HG13	1:D:2183:GLY:N	2.35	0.41
1:D:2214:VAL:HG11	1:D:2228:MET:CE	2.50	0.41
1:D:2233:CYS:SG	1:D:2274:ASP:OD1	2.77	0.41
1:D:2435:ARG:O	1:D:2508:ARG:NH2	2.53	0.41
1:D:2577:ILE:HG13	1:D:2578:MET:N	2.34	0.41
1:D:3157:ILE:HA	1:D:3161:VAL:HG21	2.01	0.41
1:D:3498:ARG:HG3	1:D:3501:ASP:H	1.85	0.41
1:D:3528:THR:HB	1:D:3560:GLN:OE1	2.20	0.41
1:D:3571:TRP:CE2	1:D:3572:GLN:NE2	2.88	0.41
1:D:4673:ARG:NE	1:D:4702:ASP:OD1	2.53	0.41
1:C:214:VAL:HG22	1:C:341:TYR:CG	2.54	0.41
1:C:445:LEU:O	1:C:449:ILE:HG12	2.20	0.41
1:C:769:GLU:N	1:C:769:GLU:OE1	2.53	0.41
1:C:875:ALA:HA	1:C:878:ILE:HG12	2.02	0.41
1:C:1699:GLU:OE2	1:C:1814:MET:HE3	2.20	0.41
1:C:1716:ILE:O	1:C:1721:GLU:N	2.53	0.41
1:C:2023:LEU:O	1:C:2028:ARG:CZ	2.68	0.41
1:C:2325:PRO:O	1:C:2326:CYS:C	2.62	0.41
1:C:2793:PRO:O	1:C:2797:PHE:N	2.45	0.41
1:C:2816:MET:CE	1:C:2823:ILE:HD12	2.50	0.41
1:C:3409:TYR:N	1:C:3410:PRO:HD2	2.34	0.41
1:C:3648:ARG:O	1:C:3652:MET:HG3	2.19	0.41
1:A:56:GLN:HG2	1:A:57:ASN:N	2.36	0.41
1:A:906:CYS:SG	1:A:913:LEU:HB2	2.60	0.41
1:A:1208:VAL:HG11	1:D:3575:LEU:HD21	2.02	0.41
1:A:2282:ASP:HA	1:A:2341:VAL:HG13	2.02	0.41
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.20	0.41
1:A:2600:ARG:O	1:A:2604:GLU:HG3	2.21	0.41
1:A:2824:GLU:OE1	1:A:2824:GLU:N	2.53	0.41
1:A:3852:LYS:O	1:A:3856:LEU:CD1	2.69	0.41
1:A:3857:GLY:O	1:A:3866:ILE:HG23	2.21	0.41
1:A:4027:LEU:CD2	1:A:4044:MET:HE2	2.41	0.41
1:A:4090:LYS:HD2	1:A:4123:ILE:HD11	2.02	0.41
1:A:4097:MET:HE2	1:A:4097:MET:CA	2.49	0.41
1:B:20:VAL:HG12	1:B:204:PRO:HA	2.01	0.41
1:B:336:PRO:HA	1:B:337:PRO:HD3	1.89	0.41
1:B:913:LEU:O	1:B:918:ARG:NE	2.53	0.41
1:B:915:GLU:OE2	1:B:918:ARG:NH1	2.53	0.41
1:B:2214:VAL:HG11	1:B:2228:MET:CE	2.50	0.41
1:B:2514:ASN:OD1	1:B:2514:ASN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2575:ARG:HD3	1:B:2578:MET:CE	2.50	0.41
1:B:2600:ARG:O	1:B:2604:GLU:HG3	2.21	0.41
1:B:2755:ILE:HD13	1:B:2810:LYS:HG3	2.02	0.41
1:B:3319:ILE:O	1:B:3323:ILE:HG12	2.19	0.41
1:B:3332:ALA:H	1:B:3403:ARG:NH1	2.17	0.41
1:B:3548:GLU:O	1:B:3551:GLU:HG3	2.19	0.41
1:B:3852:LYS:O	1:B:3856:LEU:CD1	2.69	0.41
1:B:3951:PHE:CE2	1:B:3955:MET:SD	3.14	0.41
1:B:4864:ASN:O	1:B:4902:GLU:OE2	2.38	0.41
1:D:155:LYS:HE2	1:C:228:ASP:OD2	2.20	0.41
1:D:283:ARG:HB2	1:D:290:TYR:CE2	2.56	0.41
1:D:414:PHE:O	1:D:418:LEU:HG	2.20	0.41
1:D:1698:LEU:HD22	1:D:1712:TYR:CE1	2.55	0.41
1:D:1699:GLU:OE2	1:D:1814:MET:HE3	2.21	0.41
1:D:2203:MET:HE2	1:D:2235:PHE:CE1	2.55	0.41
1:D:2575:ARG:NH1	1:D:2578:MET:CE	2.84	0.41
1:D:2927:LEU:HD11	1:D:2937:VAL:HG11	2.01	0.41
1:D:3985:LEU:O	1:D:3989:VAL:HG23	2.19	0.41
1:D:3988:ALA:O	1:D:3992:PHE:CD2	2.72	0.41
1:D:4145:VAL:HG13	1:D:4194:TYR:HB2	2.01	0.41
1:C:748:LEU:HD11	1:C:771:PHE:HZ	1.84	0.41
1:C:901:LYS:O	1:C:902:ARG:HB2	2.21	0.41
1:C:1472:VAL:HG22	1:C:1473:THR:N	2.36	0.41
1:C:2024:PRO:O	1:C:2027:ILE:HG22	2.21	0.41
1:C:2282:ASP:HA	1:C:2341:VAL:HG13	2.02	0.41
1:C:2290:LEU:HD21	1:C:2295:LEU:HG	2.01	0.41
1:C:2463:LEU:HD21	1:C:2517:PHE:CZ	2.55	0.41
1:C:2575:ARG:NH1	1:C:2578:MET:CE	2.84	0.41
1:C:2736:ASP:OD1	1:C:2736:ASP:O	2.37	0.41
1:C:3616:LYS:HA	1:C:3619:VAL:HG22	2.02	0.41
1:C:3853:ALA:O	1:C:3856:LEU:HD12	2.20	0.41
1:C:4070:ASP:OD1	1:C:4070:ASP:C	2.63	0.41
1:C:4956:THR:O	1:C:4965:SER:N	2.53	0.41
1:A:110:ARG:HD2	1:A:115:ARG:HH21	1.85	0.41
1:A:133:PHE:HZ	1:D:2459:SER:HB2	1.85	0.41
1:A:445:LEU:O	1:A:449:ILE:HG12	2.20	0.41
1:A:901:LYS:O	1:A:902:ARG:HB2	2.21	0.41
1:A:1074:ILE:HD12	1:A:1111:PRO:O	2.20	0.41
1:A:1699:GLU:OE2	1:A:1814:MET:HE3	2.20	0.41
1:A:1927:LEU:HD12	1:A:2097:LEU:HD11	2.02	0.41
1:A:2023:LEU:O	1:A:2028:ARG:CZ	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2182:ILE:HG13	1:A:2183:GLY:N	2.35	0.41
1:A:2612[A]:ARG:NH1	1:A:2613:TYR:CD2	2.88	0.41
1:A:2960:LEU:CD2	1:A:2964:LEU:HD11	2.51	0.41
1:A:3136:LEU:O	1:A:3140:LEU:HD13	2.20	0.41
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	2.01	0.41
1:A:3853:ALA:O	1:A:3856:LEU:HD12	2.20	0.41
2:E:57:ARG:CZ	2:E:80:TYR:CE1	3.03	0.41
2:E:102:GLU:OE2	2:E:104:LEU:CD2	2.68	0.41
1:B:1701:ALA:HB1	1:B:1830:VAL:HG22	2.02	0.41
1:B:1972:ASN:OD1	1:B:1976:ARG:NH1	2.54	0.41
1:B:2212:VAL:HA	1:B:2215:LEU:HD12	2.03	0.41
1:B:2441:HIS:O	1:B:2444:GLN:OE1	2.38	0.41
1:B:2690:LYS:HD3	1:B:2691:TYR:O	2.20	0.41
1:B:2986:VAL:O	1:B:2986:VAL:HG13	2.20	0.41
1:B:3384:LYS:NZ	1:B:3386:GLU:HB3	2.35	0.41
1:B:3571:TRP:CE2	1:B:3572:GLN:NE2	2.89	0.41
1:B:3575:LEU:HD21	1:C:1208:VAL:HG11	2.02	0.41
1:B:3635:CYS:HA	1:B:3638:MET:HG3	2.01	0.41
1:D:388:LEU:HD23	1:D:388:LEU:H	1.85	0.41
1:D:759:ILE:HG23	1:D:762:CYS:HG	1.86	0.41
1:D:875:ALA:HB1	1:D:922:LEU:HD22	2.00	0.41
1:D:879:HIS:CE1	1:D:913:LEU:HD13	2.55	0.41
1:D:1931:LEU:HD13	1:D:1935:VAL:HG11	2.02	0.41
1:D:2023:LEU:O	1:D:2028:ARG:CZ	2.68	0.41
1:D:2024:PRO:O	1:D:2027:ILE:HG22	2.20	0.41
1:D:2211:MET:HE3	1:D:2232:CYS:HB2	2.01	0.41
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.20	0.41
1:D:2496:PRO:O	1:D:2553:TYR:CD1	2.74	0.41
1:D:3731:LYS:HA	1:D:3734:HIS:NE2	2.34	0.41
1:C:233:ILE:HG22	1:C:284:HIS:HE1	1.85	0.41
1:C:576:ASN:OD1	1:C:2169:GLN:NE2	2.53	0.41
1:C:1701:ALA:HB1	1:C:1830:VAL:HG22	2.02	0.41
1:C:2318:TYR:CG	1:C:2395:PRO:HD3	2.56	0.41
1:C:2538:THR:C	1:C:2542:SER:HG	2.26	0.41
1:C:2707:ALA:HB1	1:C:3009:TYR:CD1	2.55	0.41
1:C:2755:ILE:HD13	1:C:2810:LYS:HG3	2.02	0.41
1:C:3951:PHE:CE2	1:C:3955:MET:SD	3.14	0.41
1:A:70:GLU:OE2	1:A:110:ARG:HB3	2.21	0.41
1:A:233:ILE:HG22	1:A:284:HIS:HE1	1.85	0.41
1:A:942:ALA:HB3	1:A:1050:GLY:O	2.20	0.41
1:A:1423:ASP:HB3	1:A:1426:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1741:GLU:O	1:A:1745:ILE:HG13	2.21	0.41
1:A:2347:GLU:OE1	1:A:2347:GLU:N	2.41	0.41
1:A:2627:VAL:HG22	1:A:2678:LEU:HB2	2.01	0.41
1:A:3354:LEU:HD12	1:A:3415:TYR:CD2	2.56	0.41
1:A:3951:PHE:CE2	1:A:3955:MET:SD	3.14	0.41
1:A:4010:ILE:O	1:A:4014:LYS:HG3	2.20	0.41
1:A:4649:LEU:O	1:A:4653:VAL:HG23	2.21	0.41
1:A:4942:GLU:O	1:A:4946:GLN:HG3	2.20	0.41
1:A:4978:HIS:CE1	1:A:4983:HIS:CE1	3.09	0.41
1:B:228:ASP:OD2	1:C:155:LYS:HE2	2.20	0.41
1:B:445:LEU:O	1:B:449:ILE:HG12	2.20	0.41
1:B:591:ASP:O	1:B:1594:ARG:HD2	2.19	0.41
1:B:759:ILE:HG23	1:B:762:CYS:HG	1.85	0.41
1:B:839:LEU:N	1:B:839:LEU:HD12	2.36	0.41
1:B:901:LYS:O	1:B:902:ARG:HB2	2.21	0.41
1:B:2024:PRO:O	1:B:2027:ILE:HG22	2.20	0.41
1:B:2496:PRO:O	1:B:2553:TYR:CD1	2.74	0.41
1:B:2612[B]:ARG:NH2	1:B:2613:TYR:CD2	2.88	0.41
1:B:3006:ILE:HG23	1:B:3010:PHE:CE2	2.56	0.41
1:B:3144:PHE:HB2	1:B:3196:ARG:HB3	2.03	0.41
1:B:3253:ILE:HG22	1:B:3318:ASN:HB3	2.02	0.41
1:B:3384:LYS:O	1:B:3387:ALA:HB3	2.21	0.41
1:B:3401:LEU:HD23	1:B:3451:PHE:CE1	2.54	0.41
1:B:4097:MET:HE2	1:B:4097:MET:CA	2.49	0.41
1:D:110:ARG:HD2	1:D:115:ARG:HH21	1.85	0.41
1:D:514:SER:HB2	1:D:518:ILE:HD11	2.02	0.41
1:D:601:ASP:HA	1:D:1668:ARG:HH22	1.86	0.41
1:D:842:PRO:O	1:D:1196:PRO:HA	2.19	0.41
1:D:1245:PHE:CE2	1:D:1600:LEU:HD13	2.56	0.41
1:D:1480:GLN:O	1:D:1481:GLY:C	2.64	0.41
1:D:2088:GLU:OE1	1:D:2088:GLU:N	2.53	0.41
1:D:2328:GLY:O	1:D:2332:LEU:HG	2.21	0.41
1:D:2627:VAL:HG22	1:D:2678:LEU:HB2	2.01	0.41
1:D:3222:LYS:HB3	1:D:3226:GLU:CG	2.51	0.41
1:D:3814:GLN:NE2	1:D:3818:ASP:OD1	2.53	0.41
1:D:4930:ALA:CB	1:C:4933:GLN:HG3	2.50	0.41
1:C:688:LEU:HD12	1:C:776:LEU:O	2.21	0.41
1:C:839:LEU:HD12	1:C:839:LEU:N	2.36	0.41
1:C:879:HIS:CE1	1:C:913:LEU:HD13	2.55	0.41
1:C:991:ASN:O	1:C:995:VAL:HG23	2.21	0.41
1:C:1705:GLY:HA3	1:C:1836:PHE:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2821:TRP:CD1	1:C:2939:ARG:C	2.99	0.41
1:C:2986:VAL:O	1:C:2986:VAL:HG13	2.20	0.41
1:C:3326:ASN:O	1:C:3335:MET:HE1	2.20	0.41
1:C:3615:SER:O	1:C:3616:LYS:HB3	2.20	0.41
1:C:3809:ASN:HD22	1:C:3812:VAL:HG23	1.85	0.41
1:A:262:LEU:HB3	1:A:280:LEU:HD11	2.03	0.41
1:A:514:SER:HB2	1:A:518:ILE:HD11	2.02	0.41
1:A:1289:LEU:HA	1:A:1598:GLN:O	2.21	0.41
1:A:2024:PRO:O	1:A:2027:ILE:HG22	2.21	0.41
1:A:2440:MET:HB2	1:A:2440:MET:HE2	1.89	0.41
1:A:2756:ASN:O	1:A:2760:GLU:HG3	2.19	0.41
1:A:2908:TYR:CB	1:A:2916:LYS:HE2	2.51	0.41
1:A:3144:PHE:HB2	1:A:3196:ARG:HB3	2.03	0.41
1:A:4827:LEU:HD23	1:A:4831:THR:HG23	2.02	0.41
1:A:4859:PHE:HE1	1:A:4909:TYR:HB3	1.86	0.41
1:B:276:TRP:O	1:B:328:LYS:NZ	2.51	0.41
1:B:769:GLU:OE1	1:B:769:GLU:N	2.53	0.41
1:B:1069:TRP:CZ3	1:B:1112:ASP:HB3	2.54	0.41
1:B:1286:MET:HG2	1:B:1462:MET:O	2.20	0.41
1:B:1451:GLY:HA3	1:B:1494:MET:HA	2.03	0.41
1:B:1639:LEU:HD23	1:B:1639:LEU:C	2.45	0.41
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.21	0.41
1:B:2435:ARG:O	1:B:2508:ARG:NH2	2.53	0.41
1:B:3857:GLY:O	1:B:3866:ILE:HG23	2.21	0.41
1:B:4178:LEU:HD23	1:B:4178:LEU:C	2.45	0.41
1:B:4993:MET:HA	1:B:4996:ILE:HD12	2.03	0.41
1:D:56:GLN:HG2	1:D:57:ASN:N	2.36	0.41
1:D:164:ARG:HB2	1:D:167:ASP:OD2	2.20	0.41
1:D:368:ARG:CZ	1:D:2307:LEU:HB3	2.51	0.41
1:D:991:ASN:O	1:D:995:VAL:HG23	2.21	0.41
1:D:1286:MET:HG2	1:D:1462:MET:O	2.20	0.41
1:D:1423:ASP:HB3	1:D:1426:ILE:HD12	2.02	0.41
1:D:1472:VAL:HG22	1:D:1473:THR:N	2.36	0.41
1:D:2212:VAL:HA	1:D:2215:LEU:HD12	2.03	0.41
1:D:2612[A]:ARG:NH1	1:D:2613:TYR:CD2	2.88	0.41
1:D:2960:LEU:CD2	1:D:2964:LEU:HD11	2.51	0.41
1:D:3144:PHE:HB2	1:D:3196:ARG:HB3	2.03	0.41
1:D:3852:LYS:O	1:D:3856:LEU:CD1	2.69	0.41
1:D:4827:LEU:HD23	1:D:4831:THR:HG23	2.02	0.41
1:D:4956:THR:O	1:D:4965:SER:N	2.53	0.41
1:C:1164:LEU:HB2	1:C:1169:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2102:VAL:HG22	1:C:2120:MET:HB2	2.02	0.41
1:C:2781:VAL:HG13	1:C:2781:VAL:O	2.21	0.41
1:C:3006:ILE:HG23	1:C:3010:PHE:CE2	2.56	0.41
1:C:3856:LEU:HD12	1:C:3856:LEU:H	1.86	0.41
1:C:3857:GLY:O	1:C:3866:ILE:HG23	2.21	0.41
1:A:414:PHE:O	1:A:418:LEU:HG	2.20	0.41
1:A:839:LEU:HD12	1:A:839:LEU:N	2.36	0.41
1:A:945:LYS:HD2	1:A:946:ALA:N	2.36	0.41
1:A:979:PRO:O	1:A:983:THR:HG23	2.21	0.41
1:A:1705:GLY:HA3	1:A:1836:PHE:CG	2.55	0.41
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	2.03	0.41
1:A:2212:VAL:HA	1:A:2215:LEU:HD12	2.03	0.41
1:A:2816:MET:CE	1:A:2823:ILE:HD12	2.50	0.41
1:A:3590:GLU:HG2	1:A:3591:LYS:N	2.36	0.41
2:F:102:GLU:OE2	2:F:104:LEU:CD2	2.68	0.41
1:B:296:ASP:OD1	1:B:297:GLN:N	2.54	0.41
1:B:911:HIS:O	1:B:918:ARG:NH2	2.54	0.41
1:B:1573:MET:CE	1:B:1577:ALA:HB2	2.50	0.41
1:B:1716:ILE:O	1:B:1721:GLU:N	2.53	0.41
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.21	0.41
1:B:2023:LEU:O	1:B:2028:ARG:CZ	2.68	0.41
1:B:2381:GLU:HB3	1:B:2385:ARG:HH12	1.85	0.41
1:B:2781:VAL:O	1:B:2781:VAL:HG13	2.21	0.41
1:B:2960:LEU:CD2	1:B:2964:LEU:HD11	2.51	0.41
1:B:3628:ARG:O	1:B:3631:ALA:N	2.42	0.41
1:B:4673:ARG:NE	1:B:4702:ASP:OD1	2.53	0.41
1:B:4855:ALA:HA	1:B:4859:PHE:HB2	2.03	0.41
1:D:502:HIS:HA	1:D:505:GLU:OE1	2.21	0.41
1:D:688:LEU:HD12	1:D:776:LEU:O	2.20	0.41
1:D:730:VAL:HA	1:D:1476:MET:CE	2.50	0.41
1:D:915:GLU:OE2	1:D:918:ARG:NH1	2.53	0.41
1:D:1639:LEU:HD23	1:D:1639:LEU:C	2.45	0.41
1:D:1927:LEU:HD12	1:D:2097:LEU:HD11	2.02	0.41
1:D:2195:PRO:HA	1:D:2198:MET:HE2	2.03	0.41
1:D:2907:PRO:O	1:D:2910:THR:OG1	2.30	0.41
1:D:3211:ASN:OD1	1:D:3217:SER:OG	2.36	0.41
1:D:3326:ASN:O	1:D:3335:MET:HE1	2.20	0.41
1:D:3354:LEU:HD12	1:D:3415:TYR:CD2	2.56	0.41
1:D:3359:ILE:HB	1:D:3360:PRO:HD3	2.03	0.41
1:D:3788:GLY:HA3	1:D:3834:ALA:HB3	2.03	0.41
1:D:3857:GLY:O	1:D:3866:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4978:HIS:CE1	1:D:4983:HIS:CE1	3.09	0.41
1:C:125:ARG:NH1	1:C:134:ASP:HA	2.36	0.41
1:C:283:ARG:HB2	1:C:290:TYR:CE2	2.56	0.41
1:C:710:ASP:OD1	1:C:713:SER:OG	2.36	0.41
1:C:730:VAL:HA	1:C:1476:MET:CE	2.50	0.41
1:C:904:HIS:CD2	1:C:906:CYS:HB3	2.56	0.41
1:C:1206:GLN:HA	1:C:1227:ALA:O	2.21	0.41
1:C:2270:SER:HA	1:C:2274:ASP:OD2	2.20	0.41
1:C:2612[B]:ARG:NH2	1:C:2613:TYR:CD2	2.89	0.41
1:C:2960:LEU:CD2	1:C:2964:LEU:HD11	2.51	0.41
1:C:3536:ALA:O	1:C:3540:TYR:CD2	2.74	0.41
1:C:3852:LYS:O	1:C:3856:LEU:CD1	2.69	0.41
1:A:688:LEU:HD12	1:A:776:LEU:O	2.21	0.41
1:A:1104:TRP:CZ2	1:A:1153:ILE:HG22	2.56	0.41
1:A:1206:GLN:HA	1:A:1227:ALA:O	2.21	0.41
1:A:1716:ILE:O	1:A:1721:GLU:N	2.53	0.41
1:A:2328:GLY:O	1:A:2332:LEU:HG	2.20	0.41
1:A:2381:GLU:CB	1:A:2385:ARG:NH1	2.84	0.41
1:A:2575:ARG:NH1	1:A:2578:MET:CE	2.84	0.41
1:B:502:HIS:HA	1:B:505:GLU:OE1	2.21	0.41
1:B:1931:LEU:HD12	1:B:1939:MET:CE	2.46	0.41
1:B:2138:LEU:HB2	1:B:3658:LYS:HE2	2.03	0.41
1:B:2182:ILE:O	1:B:2186:MET:SD	2.78	0.41
1:B:2230:THR:HG23	1:B:2270:SER:CB	2.49	0.41
1:B:2611:CYS:SG	1:B:2643:LEU:HD11	2.61	0.41
1:B:2627:VAL:HG22	1:B:2678:LEU:HB2	2.01	0.41
1:B:2684:ASP:OD1	1:B:2684:ASP:C	2.63	0.41
1:B:2821:TRP:CD1	1:B:2939:ARG:C	2.99	0.41
1:B:3354:LEU:HD12	1:B:3415:TYR:CD2	2.56	0.41
1:B:3590:GLU:HG2	1:B:3591:LYS:N	2.36	0.41
1:B:3853:ALA:O	1:B:3856:LEU:HD12	2.20	0.41
1:B:3856:LEU:HD12	1:B:3856:LEU:H	1.86	0.41
1:B:4942:GLU:O	1:B:4946:GLN:HG3	2.20	0.41
1:D:156:GLN:NE2	1:D:157:ARG:HG2	2.35	0.41
1:D:904:HIS:CD2	1:D:906:CYS:HB3	2.56	0.41
1:D:909:ASN:ND2	1:D:965:TYR:CD2	2.78	0.41
1:D:942:ALA:HB3	1:D:1050:GLY:O	2.20	0.41
1:D:979:PRO:O	1:D:983:THR:HG23	2.21	0.41
1:D:2182:ILE:O	1:D:2186:MET:SD	2.78	0.41
1:D:2282:ASP:HA	1:D:2341:VAL:HG13	2.02	0.41
1:D:2611:CYS:SG	1:D:2643:LEU:HD11	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2821:TRP:CD1	1:D:2939:ARG:C	2.99	0.41
1:D:3384:LYS:O	1:D:3387:ALA:HB3	2.21	0.41
1:D:4105:GLY:O	1:D:4109:GLN:HG2	2.21	0.41
1:D:4586:PRO:HG3	1:D:4629:TYR:CE1	2.56	0.41
1:C:56:GLN:HG2	1:C:57:ASN:N	2.36	0.41
1:C:269:TRP:CE3	1:C:334:MET:CE	3.04	0.41
1:C:345:LEU:HD21	1:C:389:PHE:CE2	2.56	0.41
1:C:1983:ALA:HA	1:C:1986:MET:HE1	2.01	0.41
1:C:2029:GLN:HA	1:C:2032:GLN:OE1	2.21	0.41
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.21	0.41
1:C:2138:LEU:HB2	1:C:3658:LYS:HE2	2.03	0.41
1:C:2575:ARG:HD3	1:C:2578:MET:CE	2.50	0.41
1:C:2806:ARG:HH11	1:C:2810:LYS:HE2	1.86	0.41
1:C:3144:PHE:HB2	1:C:3196:ARG:HB3	2.03	0.41
1:C:3384:LYS:O	1:C:3387:ALA:HB3	2.21	0.41
1:C:4674:GLU:OE2	1:C:4775:TYR:OH	2.30	0.41
1:A:236:ALA:N	1:A:242:ARG:NH2	2.69	0.41
1:A:368:ARG:CZ	1:A:2307:LEU:HB3	2.51	0.41
1:A:614:VAL:HG22	1:A:2169:GLN:CD	2.46	0.41
1:A:759:ILE:HG23	1:A:762:CYS:HG	1.86	0.41
1:A:911:HIS:O	1:A:918:ARG:NH2	2.54	0.41
1:A:1171:SER:OG	1:A:1175:SER:OG	2.37	0.41
1:A:1207:ASP:O	1:A:1210:SER:OG	2.24	0.41
1:A:1573:MET:CE	1:A:1577:ALA:HB2	2.50	0.41
1:A:2195:PRO:HA	1:A:2198:MET:HE2	2.03	0.41
1:A:2223:ILE:O	1:A:2223:ILE:CG2	2.69	0.41
1:A:2514:ASN:OD1	1:A:2514:ASN:N	2.53	0.41
1:A:2538:THR:O	1:A:2542:SER:OG	2.31	0.41
1:A:2611:CYS:SG	1:A:2643:LEU:HD11	2.61	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:N	2.69	0.41
1:A:2612[B]:ARG:NH2	1:A:2613:TYR:CG	2.87	0.41
1:A:2768:PHE:HB2	1:A:2857:PRO:CG	2.50	0.41
1:A:2781:VAL:O	1:A:2781:VAL:HG13	2.21	0.41
1:A:2821:TRP:CD1	1:A:2939:ARG:C	2.99	0.41
1:A:2908:TYR:CD1	1:A:2911:LEU:HD11	2.56	0.41
1:A:2914:LYS:HG3	1:A:2915:GLU:N	2.36	0.41
1:A:3354:LEU:HB2	1:A:3415:TYR:CZ	2.56	0.41
1:A:3384:LYS:NZ	1:A:3386:GLU:HB3	2.35	0.41
1:A:3432:GLU:OE1	1:A:3524:MET:HE3	2.21	0.41
1:A:3571:TRP:CE2	1:A:3572:GLN:NE2	2.89	0.41
1:A:3809:ASN:HD22	1:A:3812:VAL:HG23	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4105:GLY:O	1:A:4109:GLN:HG2	2.21	0.41
2:E:49:MET:CG	2:E:52:LYS:HZ1	2.32	0.41
2:H:49:MET:CG	2:H:52:LYS:NZ	2.84	0.41
2:H:57:ARG:CZ	2:H:80:TYR:CE1	3.03	0.41
1:B:262:LEU:HB3	1:B:280:LEU:HD11	2.03	0.41
1:B:568:LEU:HD12	1:B:602:VAL:HG13	2.03	0.41
1:B:979:PRO:O	1:B:983:THR:HG23	2.21	0.41
1:B:1024:TYR:O	1:B:1027:LEU:HB3	2.21	0.41
1:B:1164:LEU:HB2	1:B:1169:LEU:HD21	2.02	0.41
1:B:1206:GLN:HA	1:B:1227:ALA:O	2.21	0.41
1:B:1289:LEU:HA	1:B:1598:GLN:O	2.21	0.41
1:B:1472:VAL:HG22	1:B:1473:THR:N	2.36	0.41
1:B:2209:GLU:HA	1:B:2212:VAL:HG22	2.03	0.41
1:B:2328:GLY:O	1:B:2332:LEU:HG	2.20	0.41
1:B:2593:ARG:C	1:B:2594:SER:HG	2.20	0.41
1:B:2816:MET:CE	1:B:2823:ILE:HD12	2.50	0.41
1:B:2914:LYS:HG3	1:B:2915:GLU:N	2.36	0.41
1:B:3137:LEU:HD21	1:B:3189:ALA:HB1	2.03	0.41
1:B:3225:ARG:O	1:B:3229:ILE:HD12	2.21	0.41
1:B:3354:LEU:HB2	1:B:3415:TYR:CZ	2.56	0.41
1:B:3536:ALA:O	1:B:3540:TYR:CD2	2.74	0.41
1:B:3875:MET:CE	1:B:3953:LYS:HG3	2.50	0.41
1:B:3950:ASN:O	1:B:3953:LYS:HG2	2.21	0.41
1:B:3996:PHE:CD1	1:B:4016:LEU:CD1	3.03	0.41
1:B:4243:PHE:O	1:B:4247:ILE:HG12	2.21	0.41
1:B:4820:VAL:HG12	1:B:4822:THR:N	2.33	0.41
1:B:4827:LEU:HD23	1:B:4831:THR:HG23	2.02	0.41
1:B:4933:GLN:HG3	1:C:4930:ALA:CB	2.51	0.41
1:D:233:ILE:HG22	1:D:284:HIS:HE1	1.85	0.41
1:D:236:ALA:N	1:D:242:ARG:NH2	2.69	0.41
1:D:345:LEU:HD21	1:D:389:PHE:CE2	2.56	0.41
1:D:515:TRP:O	1:D:519:VAL:HG13	2.21	0.41
1:D:839:LEU:N	1:D:839:LEU:HD12	2.36	0.41
1:D:875:ALA:HA	1:D:878:ILE:HG12	2.02	0.41
1:D:886:ARG:HB3	1:D:891:TRP:HB2	2.03	0.41
1:D:901:LYS:O	1:D:902:ARG:HB2	2.20	0.41
1:D:985:VAL:O	1:D:1039:LEU:HD23	2.21	0.41
1:D:1104:TRP:CZ2	1:D:1153:ILE:HG22	2.56	0.41
1:D:1153:ILE:HG23	1:D:1153:ILE:O	2.21	0.41
1:D:1636:MET:HE2	1:D:1638:ALA:HB2	2.03	0.41
1:D:2029:GLN:HA	1:D:2032:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2088:GLU:HG3	1:D:2092:GLN:HG2	2.03	0.41
1:D:2318:TYR:CG	1:D:2395:PRO:HD3	2.55	0.41
1:D:2441:HIS:O	1:D:2444:GLN:OE1	2.38	0.41
1:D:2575:ARG:HD3	1:D:2578:MET:CE	2.50	0.41
1:D:2576:ALA:HB1	1:D:2618:MET:HG3	2.03	0.41
1:D:2806:ARG:HH11	1:D:2810:LYS:HE2	1.86	0.41
1:D:2819:TRP:C	1:D:2820:GLU:HG3	2.46	0.41
1:D:2858:GLN:N	1:D:2859:PRO:HD3	2.36	0.41
1:D:2886:TRP:NE1	1:D:2890:LYS:HZ1	2.19	0.41
1:D:2908:TYR:CB	1:D:2916:LYS:HE2	2.51	0.41
1:D:2986:VAL:HG13	1:D:2986:VAL:O	2.20	0.41
1:D:3225:ARG:O	1:D:3229:ILE:HD12	2.21	0.41
1:D:3432:GLU:OE1	1:D:3524:MET:HE3	2.21	0.41
1:D:3692:GLU:OE1	1:D:3694:LYS:HB2	2.21	0.41
1:D:4658:ILE:CD1	1:D:4792:LEU:HB3	2.51	0.41
1:D:4859:PHE:HE1	1:D:4909:TYR:HB3	1.86	0.41
1:D:4985:LEU:HD12	1:D:4985:LEU:C	2.46	0.41
1:C:20:VAL:HG12	1:C:204:PRO:HA	2.01	0.41
1:C:172:VAL:HG13	1:C:178:ARG:N	2.36	0.41
1:C:296:ASP:OD1	1:C:297:GLN:N	2.54	0.41
1:C:601:ASP:HA	1:C:1668:ARG:HH22	1.86	0.41
1:C:1104:TRP:CZ2	1:C:1153:ILE:HG22	2.56	0.41
1:C:1972:ASN:OD1	1:C:1976:ARG:NH1	2.54	0.41
1:C:2088:GLU:HG3	1:C:2092:GLN:HG2	2.03	0.41
1:C:2090:LYS:NZ	1:C:2092:GLN:OE1	2.45	0.41
1:C:2170:MET:HG3	1:C:2225:PHE:CE2	2.56	0.41
1:C:2212:VAL:HA	1:C:2215:LEU:HD12	2.03	0.41
1:C:2214:VAL:HG11	1:C:2228:MET:CE	2.50	0.41
1:C:2222:GLU:O	1:C:2224:ARG:NH1	2.48	0.41
1:C:2496:PRO:O	1:C:2553:TYR:CD1	2.74	0.41
1:C:2600:ARG:O	1:C:2604:GLU:HG3	2.21	0.41
1:C:2630:VAL:N	1:C:2631:PRO:CD	2.84	0.41
1:C:2819:TRP:C	1:C:2820:GLU:HG3	2.46	0.41
1:C:2908:TYR:CD1	1:C:2911:LEU:HD11	2.56	0.41
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	2.01	0.41
1:C:3590:GLU:HG2	1:C:3591:LYS:N	2.36	0.41
1:C:3856:LEU:HD12	1:C:3856:LEU:N	2.36	0.41
1:C:4105:GLY:O	1:C:4109:GLN:HG2	2.21	0.41
1:C:4649:LEU:O	1:C:4653:VAL:HG23	2.21	0.41
1:C:4993:MET:HA	1:C:4996:ILE:HD12	2.03	0.41
1:A:283:ARG:HB2	1:A:290:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:LEU:HD21	1:A:389:PHE:CE2	2.56	0.41
1:A:667:MET:HB2	1:A:743:VAL:HG22	2.02	0.41
1:A:1153:ILE:HG23	1:A:1153:ILE:O	2.21	0.41
1:A:1245:PHE:CE2	1:A:1600:LEU:HD13	2.56	0.41
1:A:1454:THR:HB	1:A:1455:PRO:HD2	2.04	0.41
1:A:1698:LEU:HD22	1:A:1712:TYR:CE1	2.55	0.41
1:A:1805:GLU:HG2	1:A:1806:ALA:N	2.36	0.41
1:A:2381:GLU:HB3	1:A:2385:ARG:HH12	1.85	0.41
1:A:2927:LEU:HD11	1:A:2937:VAL:HG11	2.01	0.41
1:A:3006:ILE:HG23	1:A:3010:PHE:CE2	2.56	0.41
1:A:3856:LEU:HD12	1:A:3856:LEU:N	2.36	0.41
1:A:4993:MET:HA	1:A:4996:ILE:HD12	2.03	0.41
2:F:57:ARG:CZ	2:F:80:TYR:CE1	3.03	0.41
1:B:515:TRP:O	1:B:519:VAL:HG13	2.21	0.41
1:B:580:GLU:HA	1:B:583:ILE:HD13	2.03	0.41
1:B:614:VAL:HG22	1:B:2169:GLN:CD	2.46	0.41
1:B:688:LEU:HD12	1:B:776:LEU:O	2.21	0.41
1:B:710:ASP:OD1	1:B:713:SER:OG	2.36	0.41
1:B:2178:MET:SD	1:B:2178:MET:C	3.04	0.41
1:B:2270:SER:HA	1:B:2274:ASP:OD2	2.20	0.41
1:B:2381:GLU:CB	1:B:2385:ARG:NH1	2.84	0.41
1:B:3081:MET:O	1:B:3089:LYS:NZ	2.50	0.41
1:B:3391:GLU:O	1:B:3394:VAL:HG12	2.21	0.41
1:B:3579:LEU:HD23	1:B:3581:GLY:H	1.85	0.41
1:B:4859:PHE:HE1	1:B:4909:TYR:HB3	1.86	0.41
1:B:4953:ASP:O	1:B:4957:LYS:HG3	2.21	0.41
1:B:5036:LEU:C	1:B:5037:SER:HG	2.04	0.41
1:D:269:TRP:CE3	1:D:334:MET:CE	3.04	0.41
1:D:349:GLN:NE2	1:D:354:GLY:O	2.51	0.41
1:D:651:GLY:HA3	1:D:776:LEU:HD23	2.03	0.41
1:D:911:HIS:O	1:D:918:ARG:NH2	2.54	0.41
1:D:2440:MET:O	1:D:2444:GLN:OE1	2.39	0.41
1:D:2825:LYS:HA	1:D:2935:TYR:HA	2.03	0.41
1:D:2914:LYS:HG3	1:D:2915:GLU:N	2.36	0.41
1:D:3006:ILE:HG23	1:D:3010:PHE:CE2	2.56	0.41
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	2.02	0.41
1:D:3836:MET:O	1:D:3839:CYS:SG	2.79	0.41
1:D:4978:HIS:O	1:D:4983:HIS:N	2.50	0.41
1:C:502:HIS:HA	1:C:505:GLU:OE1	2.21	0.41
1:C:535:ALA:O	1:C:539:LEU:HG	2.21	0.41
1:C:568:LEU:HD12	1:C:602:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:886:ARG:HB3	1:C:891:TRP:HB2	2.03	0.41
1:C:911:HIS:O	1:C:918:ARG:NH2	2.54	0.41
1:C:1153:ILE:HG23	1:C:1153:ILE:O	2.21	0.41
1:C:1244:GLN:C	1:C:1600:LEU:HD12	2.47	0.41
1:C:1451:GLY:HA3	1:C:1494:MET:HA	2.03	0.41
1:C:1716:ILE:HA	1:C:1720:LEU:HB2	2.03	0.41
1:C:2476:ILE:HD12	1:C:2536:LEU:HD11	2.03	0.41
1:C:3692:GLU:OE1	1:C:3694:LYS:HB2	2.21	0.41
1:A:125:ARG:NH1	1:A:134:ASP:HA	2.36	0.40
1:A:276:TRP:O	1:A:328:LYS:NZ	2.51	0.40
1:A:568:LEU:HD12	1:A:602:VAL:HG13	2.03	0.40
1:A:861:ILE:HD11	1:A:863:LEU:HD11	2.03	0.40
1:A:870:ILE:O	1:A:871:ARG:C	2.64	0.40
1:A:1972:ASN:OD1	1:A:1976:ARG:NH1	2.54	0.40
1:A:2138:LEU:HB2	1:A:3658:LYS:HE2	2.03	0.40
1:A:2576:ALA:HB1	1:A:2618:MET:HG3	2.03	0.40
1:A:2684:ASP:OD1	1:A:2684:ASP:C	2.63	0.40
1:A:2986:VAL:O	1:A:2986:VAL:HG13	2.20	0.40
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.22	0.40
1:A:3222:LYS:HB3	1:A:3226:GLU:CG	2.51	0.40
1:A:3384:LYS:O	1:A:3387:ALA:HB3	2.21	0.40
1:A:3391:GLU:O	1:A:3394:VAL:HG12	2.21	0.40
1:A:3788:GLY:HA3	1:A:3834:ALA:HB3	2.03	0.40
1:A:3875:MET:CE	1:A:3953:LYS:HG3	2.50	0.40
1:A:3878:ASP:OD1	1:A:3878:ASP:N	2.54	0.40
1:A:4586:PRO:HG3	1:A:4629:TYR:CE1	2.56	0.40
1:A:4673:ARG:NE	1:A:4702:ASP:OD1	2.53	0.40
1:A:4733:GLY:HA3	1:A:4736:ARG:NH1	2.36	0.40
1:A:4953:ASP:O	1:A:4957:LYS:HG3	2.21	0.40
1:B:70:GLU:OE2	1:B:110:ARG:HB3	2.21	0.40
1:B:231:LEU:CD1	1:B:245:VAL:HG12	2.48	0.40
1:B:236:ALA:N	1:B:242:ARG:NH2	2.69	0.40
1:B:414:PHE:O	1:B:418:LEU:HG	2.21	0.40
1:B:1074:ILE:HD12	1:B:1111:PRO:O	2.20	0.40
1:B:1805:GLU:HG2	1:B:1806:ALA:N	2.36	0.40
1:B:2548:LEU:O	1:B:2552:ARG:HD3	2.22	0.40
1:B:2742:THR:O	1:B:2743:LEU:C	2.65	0.40
1:B:4105:GLY:O	1:B:4109:GLN:HG2	2.21	0.40
1:B:4580:TYR:N	1:B:4632:LEU:HD23	2.37	0.40
1:B:4586:PRO:HG3	1:B:4629:TYR:CE1	2.56	0.40
1:D:276:TRP:O	1:D:328:LYS:NZ	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1024:TYR:O	1:D:1027:LEU:HB3	2.21	0.40
1:D:1164:LEU:HB2	1:D:1169:LEU:HD21	2.02	0.40
1:D:1251:GLU:OE1	1:D:1251:GLU:N	2.54	0.40
1:D:1435:TYR:CD1	1:D:1575:LEU:HD13	2.56	0.40
1:D:1690:ASP:OD1	1:D:1693:GLN:N	2.40	0.40
1:D:2138:LEU:HB2	1:D:3658:LYS:HE2	2.03	0.40
1:D:2258:LEU:O	1:D:2261:SER:OG	2.37	0.40
1:D:2470:ILE:O	1:D:2499:LYS:NZ	2.45	0.40
1:D:2476:ILE:HD12	1:D:2536:LEU:HD11	2.03	0.40
1:D:3105:LYS:C	1:D:3106:MET:HE2	2.46	0.40
1:D:3536:ALA:O	1:D:3540:TYR:CD2	2.74	0.40
1:D:3951:PHE:CE2	1:D:3955:MET:SD	3.14	0.40
1:D:4938:ASP:OD2	1:C:4944:ARG:NE	2.47	0.40
1:C:580:GLU:HA	1:C:583:ILE:HD13	2.03	0.40
1:C:626:LEU:N	1:C:627:PRO:HD2	2.37	0.40
1:C:651:GLY:HA3	1:C:776:LEU:HD23	2.03	0.40
1:C:915:GLU:OE2	1:C:918:ARG:NH1	2.53	0.40
1:C:1286:MET:HG2	1:C:1462:MET:O	2.20	0.40
1:C:1480:GLN:O	1:C:1481:GLY:C	2.64	0.40
1:C:1573:MET:CE	1:C:1577:ALA:HB2	2.50	0.40
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.21	0.40
1:C:2328:GLY:O	1:C:2332:LEU:HG	2.20	0.40
1:C:2742:THR:O	1:C:2743:LEU:C	2.65	0.40
1:C:2825:LYS:HA	1:C:2935:TYR:HA	2.03	0.40
1:C:2908:TYR:CB	1:C:2916:LYS:HE2	2.51	0.40
1:C:3354:LEU:HD12	1:C:3415:TYR:CD2	2.56	0.40
1:C:3354:LEU:HB2	1:C:3415:TYR:CZ	2.56	0.40
1:C:3359:ILE:HB	1:C:3360:PRO:HD3	2.03	0.40
1:C:3571:TRP:CE2	1:C:3572:GLN:NE2	2.89	0.40
1:C:3696:ASP:OD1	1:C:3699:HIS:HB2	2.22	0.40
1:C:3950:ASN:O	1:C:3953:LYS:HG2	2.21	0.40
1:C:4673:ARG:NE	1:C:4702:ASP:OD1	2.54	0.40
1:C:4953:ASP:O	1:C:4957:LYS:HG3	2.21	0.40
1:C:4985:LEU:HD12	1:C:4985:LEU:C	2.46	0.40
1:A:601:ASP:HA	1:A:1668:ARG:HH22	1.86	0.40
1:A:1024:TYR:O	1:A:1027:LEU:HB3	2.21	0.40
1:A:1256:GLU:O	1:A:1272:LEU:HD12	2.22	0.40
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.21	0.40
1:A:2029:GLN:HA	1:A:2032:GLN:OE1	2.21	0.40
1:A:2247:GLN:HG3	1:A:2279:SER:HA	2.04	0.40
1:A:2318:TYR:CG	1:A:2395:PRO:HD3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3326:ASN:O	1:A:3335:MET:HE1	2.20	0.40
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.21	0.40
1:A:4243:PHE:O	1:A:4247:ILE:HG12	2.21	0.40
1:A:4627:MET:SD	1:A:4629:TYR:CZ	3.15	0.40
2:E:49:MET:CG	2:E:52:LYS:NZ	2.84	0.40
1:B:125:ARG:NH1	1:B:134:ASP:HA	2.36	0.40
1:B:345:LEU:HD21	1:B:389:PHE:CE2	2.56	0.40
1:B:648:ILE:HG23	1:B:814:ALA:HB3	2.03	0.40
1:B:945:LYS:HD2	1:B:946:ALA:N	2.36	0.40
1:B:985:VAL:O	1:B:1039:LEU:HD23	2.21	0.40
1:B:1069:TRP:CZ3	1:B:1603:VAL:HB	2.57	0.40
1:B:2195:PRO:HA	1:B:2198:MET:HE2	2.03	0.40
1:B:2318:TYR:CG	1:B:2395:PRO:HD3	2.56	0.40
1:B:2630:VAL:N	1:B:2631:PRO:CD	2.84	0.40
1:B:2763:HIS:HE2	1:B:2805:TYR:HB3	1.87	0.40
1:B:2806:ARG:HH11	1:B:2810:LYS:HE2	1.86	0.40
1:B:2927:LEU:HD11	1:B:2937:VAL:HG11	2.01	0.40
1:B:3443:ILE:HG22	1:B:3447:LYS:HD2	2.03	0.40
1:B:4649:LEU:O	1:B:4653:VAL:HG23	2.21	0.40
1:D:172:VAL:HG13	1:D:178:ARG:N	2.36	0.40
1:D:229:GLU:CD	1:D:247:TYR:HB3	2.47	0.40
1:D:231:LEU:HD13	1:D:247:TYR:HE1	1.81	0.40
1:D:547:VAL:O	1:D:551:LEU:CD1	2.70	0.40
1:D:839:LEU:HD23	1:D:1075:PHE:CD2	2.57	0.40
1:D:945:LYS:HD2	1:D:946:ALA:N	2.36	0.40
1:D:1069:TRP:CZ3	1:D:1603:VAL:HB	2.57	0.40
1:D:1454:THR:HB	1:D:1455:PRO:HD2	2.04	0.40
1:D:1573:MET:CE	1:D:1577:ALA:HB2	2.50	0.40
1:D:2178:MET:SD	1:D:2178:MET:C	3.04	0.40
1:D:2178:MET:O	1:D:2182:ILE:HG12	2.22	0.40
1:D:2381:GLU:HB3	1:D:2385:ARG:HH12	1.85	0.40
1:D:2514:ASN:OD1	1:D:2514:ASN:N	2.53	0.40
1:D:2630:VAL:N	1:D:2631:PRO:CD	2.84	0.40
1:D:2878:LEU:HG	1:D:2882:TYR:OH	2.22	0.40
1:D:3376:GLU:HB3	1:D:3380:ARG:NH1	2.36	0.40
1:D:3644:LEU:HD12	1:D:3645:PRO:CD	2.52	0.40
1:D:4627:MET:SD	1:D:4629:TYR:CZ	3.14	0.40
1:D:4649:LEU:O	1:D:4653:VAL:HG23	2.21	0.40
1:C:861:ILE:HD11	1:C:863:LEU:HD11	2.03	0.40
1:C:945:LYS:HD2	1:C:946:ALA:N	2.36	0.40
1:C:1575:LEU:HD23	1:C:1575:LEU:C	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2209:GLU:HA	1:C:2212:VAL:HG22	2.03	0.40
1:C:2223:ILE:O	1:C:2223:ILE:CG2	2.69	0.40
1:C:2611:CYS:SG	1:C:2643:LEU:HD11	2.61	0.40
1:C:2763:HIS:HE2	1:C:2805:TYR:HB3	1.87	0.40
1:C:2768:PHE:HB2	1:C:2857:PRO:CG	2.50	0.40
1:C:2971:GLN:CD	1:C:3049:LEU:HD13	2.45	0.40
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.22	0.40
1:C:3179:LYS:C	1:C:3179:LYS:HD2	2.47	0.40
1:C:3222:LYS:HB3	1:C:3226:GLU:CG	2.51	0.40
1:C:3432:GLU:OE1	1:C:3524:MET:HE3	2.21	0.40
1:C:3788:GLY:HA3	1:C:3834:ALA:HB3	2.03	0.40
1:C:4189:ARG:HB2	1:C:5031:GLN:NE2	2.36	0.40
1:C:4658:ILE:CD1	1:C:4792:LEU:HB3	2.51	0.40
1:C:4859:PHE:HE1	1:C:4909:TYR:HB3	1.86	0.40
1:A:580:GLU:HA	1:A:583:ILE:HD13	2.03	0.40
1:A:1244:GLN:C	1:A:1600:LEU:HD12	2.47	0.40
1:A:1435:TYR:CD1	1:A:1575:LEU:HD13	2.57	0.40
1:A:2209:GLU:HA	1:A:2212:VAL:HG22	2.03	0.40
1:A:2754:PHE:HE1	1:A:2929:PHE:CD2	2.40	0.40
1:A:3536:ALA:O	1:A:3540:TYR:CD2	2.74	0.40
1:A:3573:MET:HE3	1:A:3577:ARG:HG3	2.04	0.40
1:A:4855:ALA:HA	1:A:4859:PHE:HB2	2.03	0.40
1:A:4985:LEU:HD12	1:A:4985:LEU:C	2.46	0.40
1:B:601:ASP:HA	1:B:1668:ARG:HH22	1.86	0.40
1:B:651:GLY:HA3	1:B:776:LEU:HD23	2.03	0.40
1:B:884:LEU:O	1:B:887:ILE:N	2.54	0.40
1:B:908:VAL:HG23	1:B:909:ASN:H	1.87	0.40
1:B:1153:ILE:O	1:B:1153:ILE:HG23	2.21	0.40
1:B:1244:GLN:C	1:B:1600:LEU:HD12	2.47	0.40
1:B:1270:LEU:HD11	1:B:1591:CYS:SG	2.61	0.40
1:B:1480:GLN:O	1:B:1481:GLY:C	2.64	0.40
1:B:2090:LYS:HZ1	1:B:2092:GLN:CD	2.28	0.40
1:B:2754:PHE:HE1	1:B:2929:PHE:CD2	2.40	0.40
1:B:3105:LYS:C	1:B:3106:MET:HE2	2.46	0.40
1:B:3413:ILE:HG23	1:B:3516:LYS:CD	2.51	0.40
1:B:3498:ARG:HG3	1:B:3501:ASP:H	1.85	0.40
1:B:4070:ASP:OD1	1:B:4070:ASP:C	2.63	0.40
1:D:70:GLU:OE2	1:D:110:ARG:HB3	2.21	0.40
1:D:296:ASP:OD1	1:D:297:GLN:N	2.54	0.40
1:D:568:LEU:HD12	1:D:602:VAL:HG13	2.03	0.40
1:D:884:LEU:O	1:D:887:ILE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1206:GLN:HA	1:D:1227:ALA:O	2.21	0.40
1:D:1289:LEU:HA	1:D:1598:GLN:O	2.21	0.40
1:D:1451:GLY:HA3	1:D:1494:MET:HA	2.03	0.40
1:D:1705:GLY:HA3	1:D:1836:PHE:CG	2.55	0.40
1:D:1972:ASN:OD1	1:D:1976:ARG:NH1	2.54	0.40
1:D:2116:LEU:O	1:D:2120:MET:HG2	2.21	0.40
1:D:2170:MET:HG3	1:D:2225:PHE:CE2	2.56	0.40
1:D:2612[B]:ARG:NH2	1:D:2613:TYR:CD2	2.88	0.40
1:D:3521:GLY:O	1:D:3524:MET:HB3	2.22	0.40
1:D:3856:LEU:HD12	1:D:3856:LEU:H	1.86	0.40
1:D:3996:PHE:CD1	1:D:4016:LEU:CD1	3.03	0.40
1:D:4184:MET:HE3	1:D:4188:ARG:C	2.47	0.40
1:D:4993:MET:HA	1:D:4996:ILE:HD12	2.03	0.40
1:C:70:GLU:OE2	1:C:110:ARG:HB3	2.21	0.40
1:C:236:ALA:N	1:C:242:ARG:NH2	2.68	0.40
1:C:515:TRP:O	1:C:519:VAL:HG13	2.21	0.40
1:C:985:VAL:O	1:C:1039:LEU:HD23	2.21	0.40
1:C:1024:TYR:O	1:C:1027:LEU:HB3	2.21	0.40
1:C:1069:TRP:CZ3	1:C:1603:VAL:HB	2.57	0.40
1:C:1256:GLU:O	1:C:1272:LEU:HD12	2.22	0.40
1:C:1270:LEU:HD11	1:C:1591:CYS:SG	2.61	0.40
1:C:1741:GLU:O	1:C:1745:ILE:HG13	2.21	0.40
1:C:1931:LEU:HD13	1:C:1935:VAL:HG11	2.02	0.40
1:C:2178:MET:O	1:C:2182:ILE:HG12	2.21	0.40
1:C:2381:GLU:CB	1:C:2385:ARG:NH1	2.84	0.40
1:C:4666:VAL:N	1:C:4667:PRO:CD	2.84	0.40
1:A:831:ARG:NH2	1:A:1199:VAL:HG21	2.35	0.40
1:A:875:ALA:HB1	1:A:922:LEU:HD22	2.00	0.40
1:A:884:LEU:O	1:A:887:ILE:N	2.54	0.40
1:A:1636:MET:HE2	1:A:1638:ALA:HB2	2.03	0.40
1:A:2088:GLU:HG3	1:A:2092:GLN:HG2	2.03	0.40
1:A:2170:MET:HG3	1:A:2225:PHE:CE2	2.56	0.40
1:A:2214:VAL:HG11	1:A:2228:MET:CE	2.50	0.40
1:A:2377:LEU:O	1:A:2381:GLU:HG3	2.22	0.40
1:A:2440:MET:O	1:A:2444:GLN:OE1	2.40	0.40
1:A:2763:HIS:HE2	1:A:2805:TYR:HB3	1.87	0.40
1:A:2806:ARG:HH11	1:A:2810:LYS:HE2	1.86	0.40
1:A:2960:LEU:HD23	1:A:2960:LEU:O	2.22	0.40
1:A:3209:GLN:OE1	1:A:3209:GLN:N	2.45	0.40
1:A:3413:ILE:HG23	1:A:3516:LYS:CD	2.51	0.40
1:A:3856:LEU:HD12	1:A:3856:LEU:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:GLN:HG2	1:B:57:ASN:N	2.36	0.40
1:B:229:GLU:CD	1:B:247:TYR:HB3	2.47	0.40
1:B:991:ASN:O	1:B:995:VAL:HG23	2.21	0.40
1:B:1754:GLY:O	1:B:1757:ALA:N	2.54	0.40
1:B:2102:VAL:HG22	1:B:2120:MET:HB2	2.02	0.40
1:B:2441:HIS:CA	1:B:2444:GLN:OE1	2.69	0.40
1:B:3573:MET:HE3	1:B:3577:ARG:HG3	2.04	0.40
1:B:4985:LEU:HD12	1:B:4985:LEU:C	2.46	0.40
1:D:870:ILE:O	1:D:871:ARG:C	2.64	0.40
1:D:1270:LEU:HD11	1:D:1591:CYS:SG	2.61	0.40
1:D:2094:LEU:O	1:D:2098:VAL:HG23	2.21	0.40
1:D:2347:GLU:OE1	1:D:2347:GLU:N	2.41	0.40
1:D:2514:ASN:ND2	1:D:2516:ASP:OD1	2.54	0.40
1:D:3137:LEU:HD21	1:D:3189:ALA:HB1	2.03	0.40
1:D:3179:LYS:C	1:D:3179:LYS:HD2	2.47	0.40
1:D:3439:GLY:HA2	1:D:3514:LEU:HD11	2.04	0.40
1:D:3590:GLU:HG2	1:D:3591:LYS:N	2.36	0.40
1:D:3696:ASP:OD1	1:D:3699:HIS:HB2	2.22	0.40
1:D:3719:ASP:N	1:D:3793:MET:CE	2.81	0.40
1:D:4733:GLY:HA3	1:D:4736:ARG:NH1	2.37	0.40
1:D:4927:ILE:O	1:D:4930:ALA:HB3	2.22	0.40
1:C:414:PHE:O	1:C:418:LEU:HG	2.20	0.40
1:C:706:GLY:N	1:C:709:ASP:OD2	2.54	0.40
1:C:1074:ILE:HD12	1:C:1111:PRO:O	2.21	0.40
1:C:1289:LEU:HA	1:C:1598:GLN:O	2.21	0.40
1:C:1454:THR:HB	1:C:1455:PRO:HD2	2.03	0.40
1:C:1636:MET:HE2	1:C:1638:ALA:HB2	2.03	0.40
1:C:2116:LEU:O	1:C:2120:MET:HG2	2.21	0.40
1:C:3376:GLU:HB3	1:C:3380:ARG:NH1	2.37	0.40
1:C:3471:THR:O	1:C:3472:ALA:C	2.65	0.40
1:C:4586:PRO:HG3	1:C:4629:TYR:CE1	2.56	0.40
1:C:4827:LEU:HD23	1:C:4831:THR:HG23	2.02	0.40
1:C:4942:GLU:O	1:C:4946:GLN:HG3	2.20	0.40
1:C:5036:LEU:O	1:C:5037:SER:CB	2.64	0.40
1:A:547:VAL:O	1:A:551:LEU:CD1	2.70	0.40
1:A:985:VAL:O	1:A:1039:LEU:HD23	2.21	0.40
1:A:991:ASN:O	1:A:995:VAL:HG23	2.21	0.40
1:A:1218:GLY:O	1:A:1222:GLY:N	2.50	0.40
1:A:2102:VAL:HG22	1:A:2120:MET:HB2	2.02	0.40
1:A:2116:LEU:O	1:A:2120:MET:HG2	2.21	0.40
1:A:2819:TRP:C	1:A:2820:GLU:HG3	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3111:ARG:HH21	1:A:3178:THR:HG21	1.87	0.40
1:A:3696:ASP:OD1	1:A:3699:HIS:HB2	2.22	0.40
1:A:4159:ARG:O	1:A:4162:ASN:OD1	2.40	0.40
1:A:4189:ARG:HB2	1:A:5031:GLN:NE2	2.36	0.40
1:B:172:VAL:HG13	1:B:178:ARG:N	2.36	0.40
1:B:242:ARG:O	1:B:242:ARG:HG2	2.22	0.40
1:B:839:LEU:HD23	1:B:1075:PHE:CD2	2.57	0.40
1:B:904:HIS:CD2	1:B:906:CYS:HB3	2.56	0.40
1:B:990:GLU:CD	1:B:1024:TYR:HB3	2.47	0.40
1:B:1104:TRP:CZ2	1:B:1153:ILE:HG22	2.56	0.40
1:B:1153:ILE:CD1	1:B:1155:LEU:HD21	2.47	0.40
1:B:1636:MET:HE2	1:B:1638:ALA:HB2	2.03	0.40
1:B:2094:LEU:O	1:B:2098:VAL:HG23	2.21	0.40
1:B:3677:LEU:O	1:B:3697:PRO:HD2	2.22	0.40
1:B:3842:LEU:HD23	1:B:3874:VAL:CG1	2.51	0.40
1:B:4020:GLN:O	1:B:4024:VAL:HG23	2.22	0.40
1:B:4189:ARG:HB2	1:B:5031:GLN:NE2	2.36	0.40
1:D:614:VAL:HG22	1:D:2169:GLN:CD	2.46	0.40
1:D:861:ILE:HD11	1:D:863:LEU:HD11	2.03	0.40
1:D:2028:ARG:O	1:D:2032:GLN:OE1	2.40	0.40
1:D:2102:VAL:HG22	1:D:2120:MET:HB2	2.02	0.40
1:D:2381:GLU:CB	1:D:2385:ARG:NH1	2.84	0.40
1:D:2498:HIS:O	1:D:2501:SER:OG	2.33	0.40
1:D:2600:ARG:O	1:D:2604:GLU:HG3	2.21	0.40
1:D:3078:ARG:O	1:D:3082:LYS:HD3	2.22	0.40
1:D:3209:GLN:OE1	1:D:3209:GLN:N	2.45	0.40
1:D:3471:THR:O	1:D:3472:ALA:C	2.65	0.40
1:D:3842:LEU:HD23	1:D:3874:VAL:CG1	2.51	0.40
1:D:4189:ARG:HB2	1:D:5031:GLN:NE2	2.36	0.40
1:D:4863:TYR:OH	1:D:4886:HIS:NE2	2.54	0.40
1:D:4953:ASP:O	1:D:4957:LYS:HG3	2.21	0.40
1:C:364:PRO:O	1:C:365:LYS:HB3	2.21	0.40
1:C:648:ILE:HG23	1:C:814:ALA:HB3	2.03	0.40
1:C:831:ARG:NH2	1:C:1199:VAL:HG21	2.35	0.40
1:C:839:LEU:HD23	1:C:1075:PHE:CD2	2.57	0.40
1:C:1218:GLY:O	1:C:1222:GLY:N	2.50	0.40
1:C:1245:PHE:CE2	1:C:1600:LEU:HD13	2.56	0.40
1:C:2377:LEU:O	1:C:2381:GLU:HG3	2.22	0.40
1:C:2514:ASN:ND2	1:C:2516:ASP:OD1	2.54	0.40
1:C:2548:LEU:O	1:C:2552:ARG:HD3	2.22	0.40
1:C:3105:LYS:C	1:C:3106:MET:HE2	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3391:GLU:O	1:C:3394:VAL:HG12	2.21	0.40
1:C:3413:ILE:HG23	1:C:3516:LYS:CD	2.51	0.40
1:C:3439:GLY:HA2	1:C:3514:LEU:HD11	2.04	0.40
1:C:3443:ILE:HG22	1:C:3447:LYS:HD2	2.03	0.40
1:C:3465:ASN:C	1:C:3467:MET:H	2.30	0.40
1:C:3644:LEU:HD12	1:C:3645:PRO:CD	2.52	0.40
1:C:3836:MET:O	1:C:3839:CYS:SG	2.80	0.40
1:C:4580:TYR:CZ	1:C:4630:TYR:HB3	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4385/5037 (87%)	4253 (97%)	128 (3%)	4 (0%)	48	76
1	B	4385/5037 (87%)	4254 (97%)	127 (3%)	4 (0%)	48	76
1	C	4385/5037 (87%)	4253 (97%)	128 (3%)	4 (0%)	48	76
1	D	4385/5037 (87%)	4254 (97%)	127 (3%)	4 (0%)	48	76
2	E	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	F	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
All	All	17960/20580 (87%)	17426 (97%)	518 (3%)	16 (0%)	49	76

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3300	ALA
1	A	4711	PHE

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Mol	Chain	Res	Type
1	B	3300	ALA
1	B	4711	PHE
1	D	3300	ALA
1	D	4711	PHE
1	C	3300	ALA
1	C	4711	PHE
1	A	55	ALA
1	A	361	ALA
1	B	55	ALA
1	B	361	ALA
1	D	55	ALA
1	D	361	ALA
1	C	55	ALA
1	C	361	ALA

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3836/4276 (90%)	3819 (100%)	17 (0%)	84	82
1	B	3836/4276 (90%)	3819 (100%)	17 (0%)	84	82
1	C	3836/4276 (90%)	3819 (100%)	17 (0%)	84	82
1	D	3836/4276 (90%)	3819 (100%)	17 (0%)	84	82
2	E	89/90 (99%)	87 (98%)	2 (2%)	45	63
2	F	89/90 (99%)	87 (98%)	2 (2%)	45	63
2	G	89/90 (99%)	87 (98%)	2 (2%)	45	63
2	H	89/90 (99%)	87 (98%)	2 (2%)	45	63
All	All	15700/17464 (90%)	15624 (100%)	76 (0%)	81	80

All (76) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	960	MET

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Mol	Chain	Res	Type
1	A	1286	MET
1	A	1865	MET
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2584[A]	HIS
1	A	2584[B]	HIS
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2677	LYS
1	A	2816	MET
1	A	2870[A]	GLU
1	A	2870[B]	GLU
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3622	LYS
1	A	3856	LEU
2	E	17	LYS
2	E	94	HIS
2	H	17	LYS
2	H	94	HIS
2	G	17	LYS
2	G	94	HIS
2	F	17	LYS
2	F	94	HIS
1	B	960	MET
1	B	1286	MET
1	B	1865	MET
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2584[A]	HIS
1	B	2584[B]	HIS
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2677	LYS
1	B	2816	MET
1	B	2870[A]	GLU
1	B	2870[B]	GLU
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3622	LYS
1	B	3856	LEU
1	D	960	MET

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Mol	Chain	Res	Type
1	D	1286	MET
1	D	1865	MET
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2584[A]	HIS
1	D	2584[B]	HIS
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2677	LYS
1	D	2816	MET
1	D	2870[A]	GLU
1	D	2870[B]	GLU
1	D	3422[A]	HIS
1	D	3422[B]	HIS
1	D	3622	LYS
1	D	3856	LEU
1	C	960	MET
1	C	1286	MET
1	C	1865	MET
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2584[A]	HIS
1	C	2584[B]	HIS
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2677	LYS
1	C	2816	MET
1	C	2870[A]	GLU
1	C	2870[B]	GLU
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3622	LYS
1	C	3856	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (177) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	111	HIS
1	A	151	HIS
1	A	224	HIS
1	A	284	HIS
1	A	582	HIS

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Mol	Chain	Res	Type
1	A	848	HIS
1	A	921	ASN
1	A	1296	GLN
1	A	1298	HIS
1	A	1484	HIS
1	A	1563	GLN
1	A	1631	GLN
1	A	1663	HIS
1	A	1688	HIS
1	A	1702	HIS
1	A	1824	GLN
1	A	1941	ASN
1	A	1970	GLN
1	A	2036	GLN
1	A	2045	GLN
1	A	2213	ASN
1	A	2245	GLN
1	A	2260	ASN
1	A	2924	GLN
1	A	3109	ASN
1	A	3268	HIS
1	A	3325	ASN
1	A	3523	ASN
1	A	3558	HIS
1	A	3597	GLN
1	A	3781	GLN
1	A	3851	ASN
1	A	3896	ASN
1	A	3897	ASN
1	A	3950	ASN
1	A	4037	ASN
1	A	4223	ASN
1	A	4246	GLN
1	A	4547	GLN
1	A	4776	GLN
1	A	4857	ASN
1	A	5031	GLN
2	E	43	ASN
2	E	94	HIS
2	H	43	ASN
2	H	94	HIS
2	G	43	ASN

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Mol	Chain	Res	Type
2	G	94	HIS
2	F	43	ASN
2	F	94	HIS
1	B	111	HIS
1	B	224	HIS
1	B	284	HIS
1	B	582	HIS
1	B	812	HIS
1	B	838	HIS
1	B	848	HIS
1	B	921	ASN
1	B	991	ASN
1	B	1296	GLN
1	B	1298	HIS
1	B	1484	HIS
1	B	1563	GLN
1	B	1631	GLN
1	B	1663	HIS
1	B	1824	GLN
1	B	1941	ASN
1	B	1970	GLN
1	B	2036	GLN
1	B	2045	GLN
1	B	2245	GLN
1	B	2260	ASN
1	B	2881	ASN
1	B	3109	ASN
1	B	3145	GLN
1	B	3268	HIS
1	B	3343	GLN
1	B	3523	ASN
1	B	3558	HIS
1	B	3597	GLN
1	B	3781	GLN
1	B	3851	ASN
1	B	3896	ASN
1	B	3897	ASN
1	B	3950	ASN
1	B	4037	ASN
1	B	4223	ASN
1	B	4246	GLN
1	B	4547	GLN

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Mol	Chain	Res	Type
1	B	4776	GLN
1	B	4857	ASN
1	B	5031	GLN
1	D	111	HIS
1	D	224	HIS
1	D	284	HIS
1	D	582	HIS
1	D	838	HIS
1	D	848	HIS
1	D	909	ASN
1	D	921	ASN
1	D	991	ASN
1	D	1298	HIS
1	D	1484	HIS
1	D	1563	GLN
1	D	1611	HIS
1	D	1631	GLN
1	D	1663	HIS
1	D	1702	HIS
1	D	1824	GLN
1	D	1941	ASN
1	D	2036	GLN
1	D	2045	GLN
1	D	2245	GLN
1	D	2260	ASN
1	D	2924	GLN
1	D	3109	ASN
1	D	3268	HIS
1	D	3325	ASN
1	D	3343	GLN
1	D	3523	ASN
1	D	3558	HIS
1	D	3597	GLN
1	D	3781	GLN
1	D	3851	ASN
1	D	3896	ASN
1	D	3897	ASN
1	D	3950	ASN
1	D	4037	ASN
1	D	4223	ASN
1	D	4246	GLN
1	D	4547	GLN

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Mol	Chain	Res	Type
1	D	4776	GLN
1	D	4857	ASN
1	C	111	HIS
1	C	151	HIS
1	C	224	HIS
1	C	284	HIS
1	C	582	HIS
1	C	812	HIS
1	C	838	HIS
1	C	848	HIS
1	C	921	ASN
1	C	1296	GLN
1	C	1298	HIS
1	C	1484	HIS
1	C	1563	GLN
1	C	1631	GLN
1	C	1663	HIS
1	C	1702	HIS
1	C	1824	GLN
1	C	1941	ASN
1	C	1970	GLN
1	C	2036	GLN
1	C	2045	GLN
1	C	2213	ASN
1	C	2245	GLN
1	C	2881	ASN
1	C	2924	GLN
1	C	3109	ASN
1	C	3268	HIS
1	C	3325	ASN
1	C	3343	GLN
1	C	3523	ASN
1	C	3597	GLN
1	C	3781	GLN
1	C	3851	ASN
1	C	3896	ASN
1	C	3897	ASN
1	C	3950	ASN
1	C	4037	ASN
1	C	4156	HIS
1	C	4223	ASN
1	C	4246	GLN

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Mol	Chain	Res	Type
1	C	4547	GLN
1	C	4776	GLN
1	C	4857	ASN
1	C	5031	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	ATP	B	5301	-	32,33,33	0.66	0	48,52,52	0.63	0
6	A1BD2	D	5304	-	19,19,19	0.38	0	28,28,28	0.46	0
6	A1BD2	A	5304	-	19,19,19	0.39	0	28,28,28	0.46	0
6	A1BD2	B	5304	-	19,19,19	0.39	0	28,28,28	0.46	0
3	ATP	A	5301	-	32,33,33	0.67	0	48,52,52	0.63	0
3	ATP	D	5301	-	32,33,33	0.67	0	48,52,52	0.63	0
3	ATP	C	5301	-	32,33,33	0.67	0	48,52,52	0.63	0
6	A1BD2	C	5304	-	19,19,19	0.38	0	28,28,28	0.46	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ATP	B	5301	-	-	8/22/38/38	0/3/3/3
6	A1BD2	D	5304	-	-	2/6/6/6	0/2/2/2
6	A1BD2	A	5304	-	-	2/6/6/6	0/2/2/2
6	A1BD2	B	5304	-	-	2/6/6/6	0/2/2/2
3	ATP	A	5301	-	-	8/22/38/38	0/3/3/3
3	ATP	D	5301	-	-	8/22/38/38	0/3/3/3
3	ATP	C	5301	-	-	8/22/38/38	0/3/3/3
6	A1BD2	C	5304	-	-	2/6/6/6	0/2/2/2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O2A
3	A	5301	ATP	C5'-O5'-PA-O3A
3	A	5301	ATP	C3'-C4'-C5'-O5'
3	B	5301	ATP	C5'-O5'-PA-O2A
3	B	5301	ATP	C5'-O5'-PA-O3A
3	B	5301	ATP	C3'-C4'-C5'-O5'
3	D	5301	ATP	C5'-O5'-PA-O2A
3	D	5301	ATP	C5'-O5'-PA-O3A
3	D	5301	ATP	C3'-C4'-C5'-O5'
3	C	5301	ATP	C5'-O5'-PA-O2A
3	C	5301	ATP	C5'-O5'-PA-O3A
3	C	5301	ATP	C3'-C4'-C5'-O5'
6	A	5304	A1BD2	N3-C8-C9-C10
6	B	5304	A1BD2	N3-C8-C9-C10
6	D	5304	A1BD2	N3-C8-C9-C10
6	C	5304	A1BD2	N3-C8-C9-C10
3	A	5301	ATP	O4'-C4'-C5'-O5'
3	B	5301	ATP	O4'-C4'-C5'-O5'
3	D	5301	ATP	O4'-C4'-C5'-O5'
3	C	5301	ATP	O4'-C4'-C5'-O5'
3	A	5301	ATP	C4'-C5'-O5'-PA

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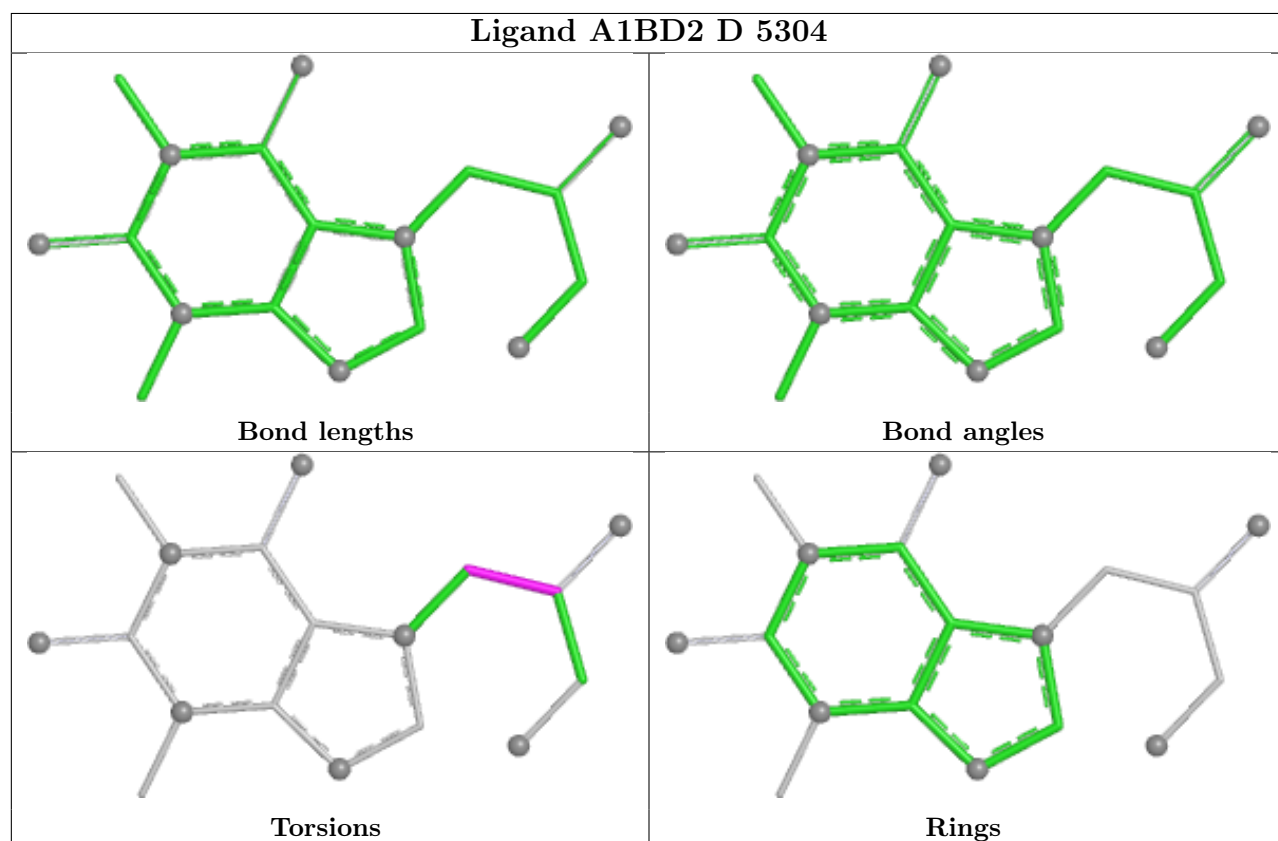
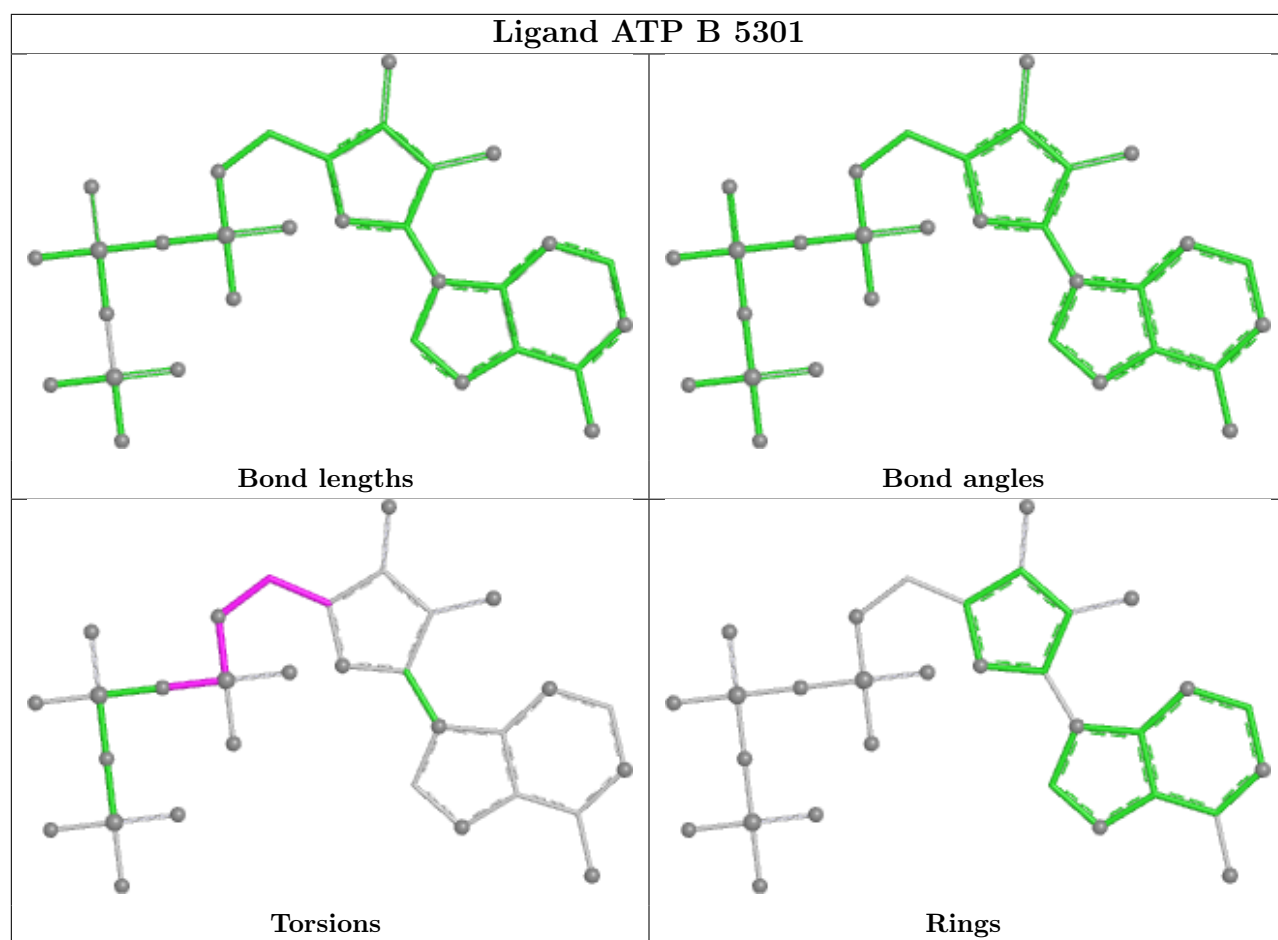
Mol	Chain	Res	Type	Atoms
3	B	5301	ATP	C4'-C5'-O5'-PA
3	D	5301	ATP	C4'-C5'-O5'-PA
3	C	5301	ATP	C4'-C5'-O5'-PA
6	A	5304	A1BD2	N3-C8-C9-O4
6	B	5304	A1BD2	N3-C8-C9-O4
6	D	5304	A1BD2	N3-C8-C9-O4
6	C	5304	A1BD2	N3-C8-C9-O4
3	A	5301	ATP	PB-O3A-PA-O1A
3	B	5301	ATP	PB-O3A-PA-O1A
3	D	5301	ATP	PB-O3A-PA-O1A
3	C	5301	ATP	PB-O3A-PA-O1A
3	A	5301	ATP	C5'-O5'-PA-O1A
3	B	5301	ATP	C5'-O5'-PA-O1A
3	D	5301	ATP	C5'-O5'-PA-O1A
3	C	5301	ATP	C5'-O5'-PA-O1A
3	A	5301	ATP	PB-O3A-PA-O2A
3	B	5301	ATP	PB-O3A-PA-O2A
3	D	5301	ATP	PB-O3A-PA-O2A
3	C	5301	ATP	PB-O3A-PA-O2A

There are no ring outliers.

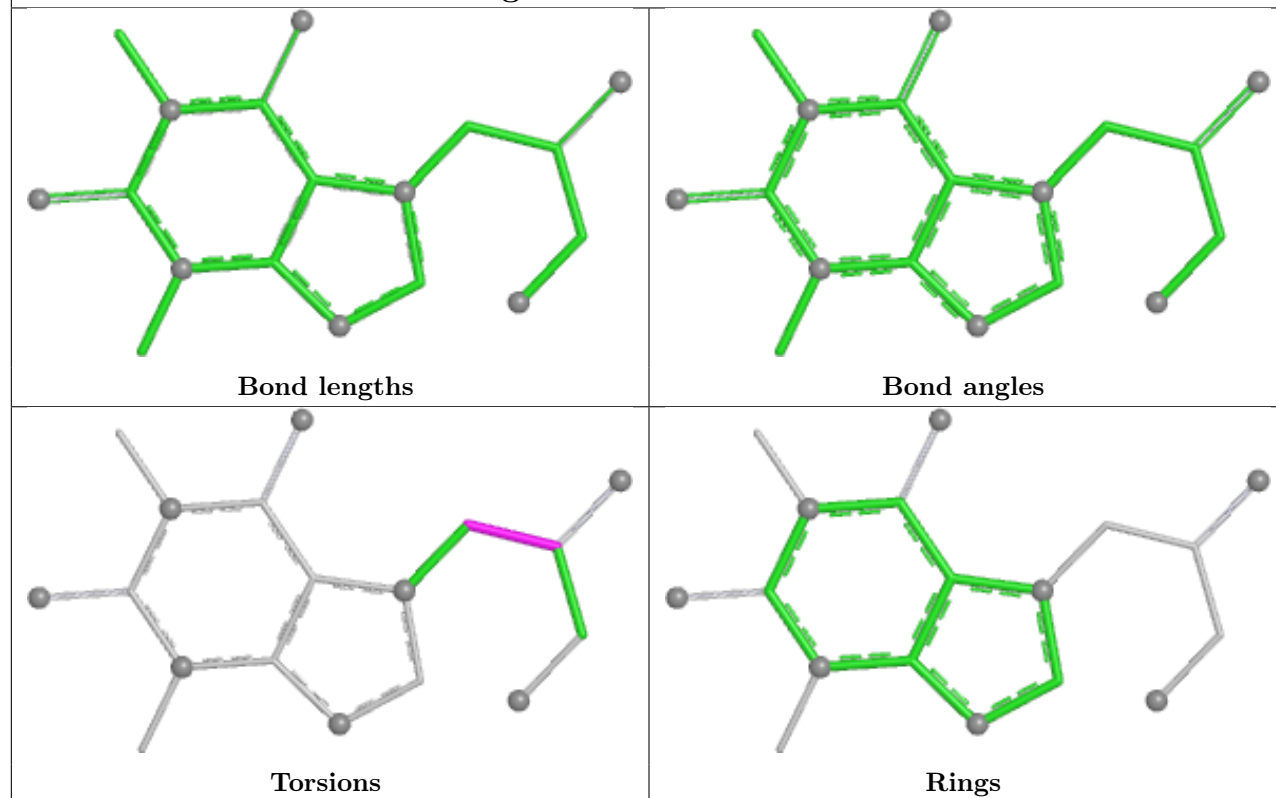
4 monomers are involved in 12 short contacts:

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

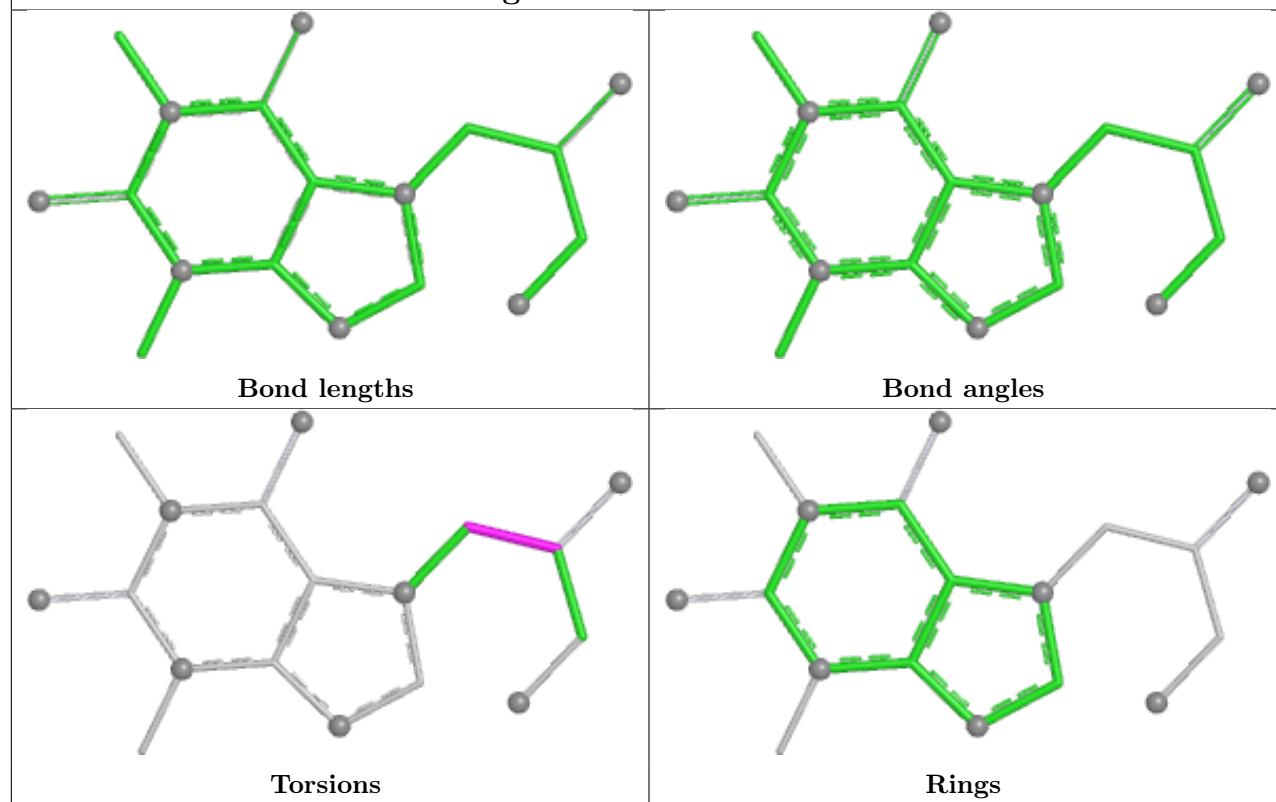
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

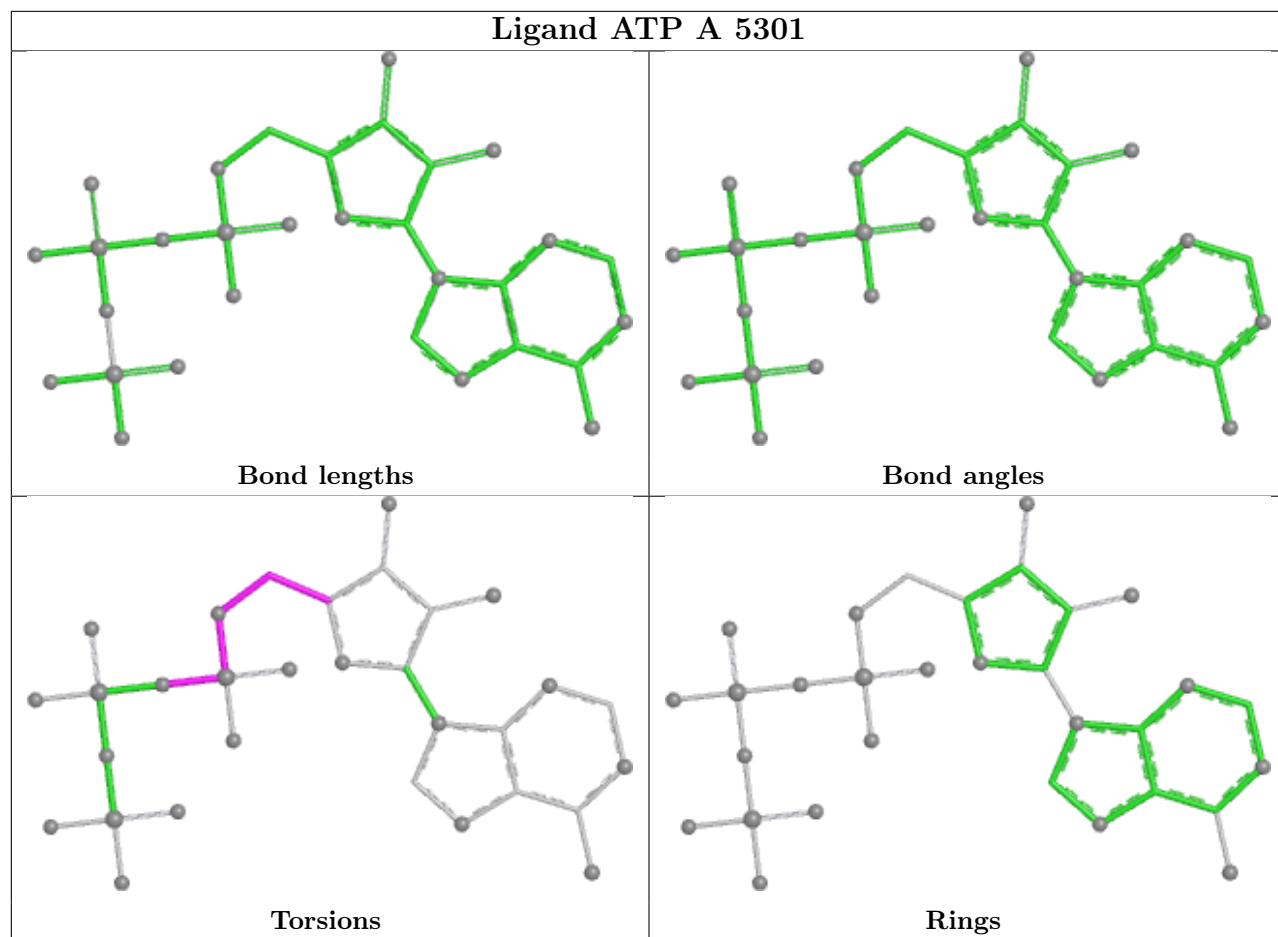


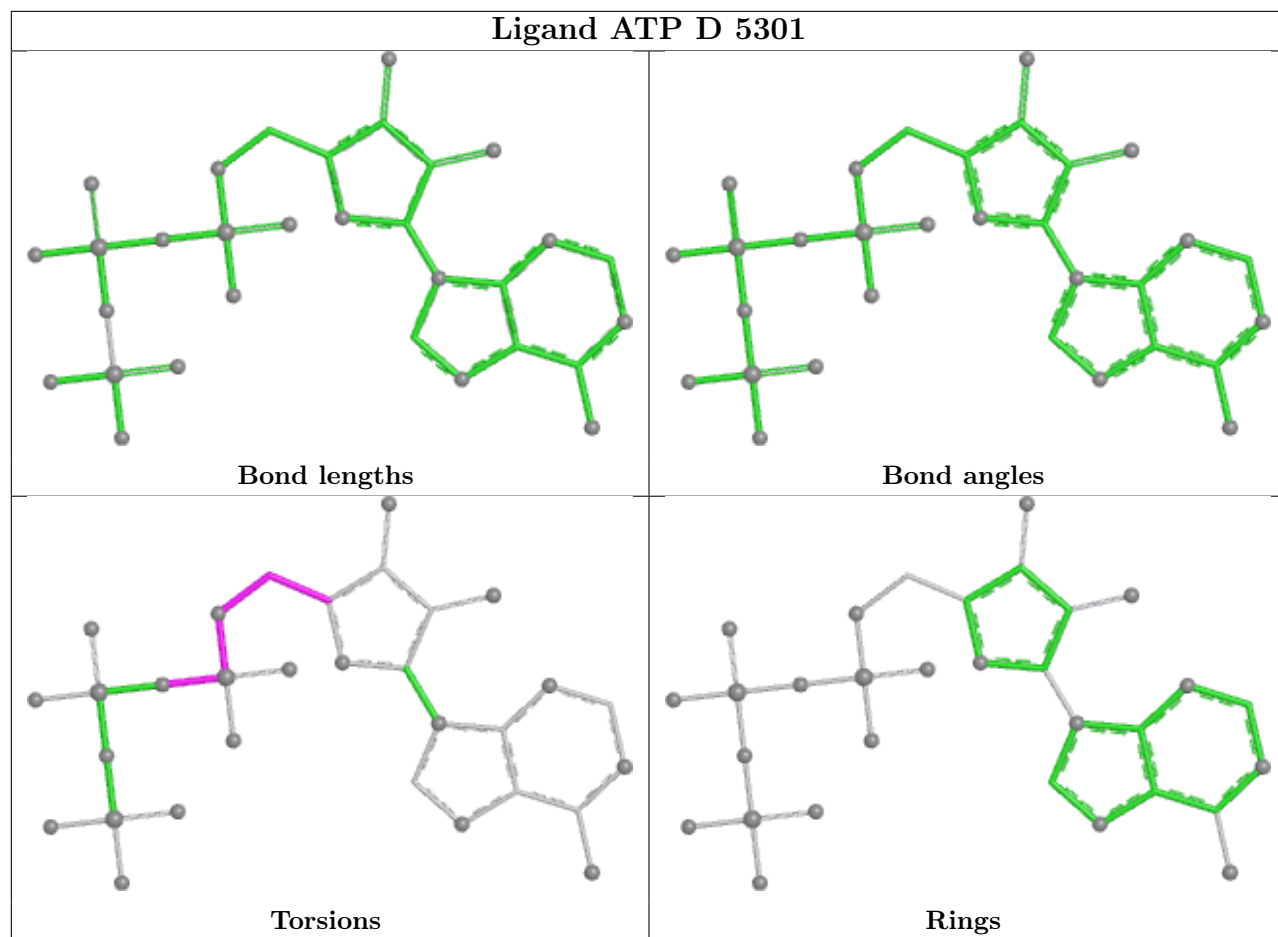
Ligand A1BD2 A 5304



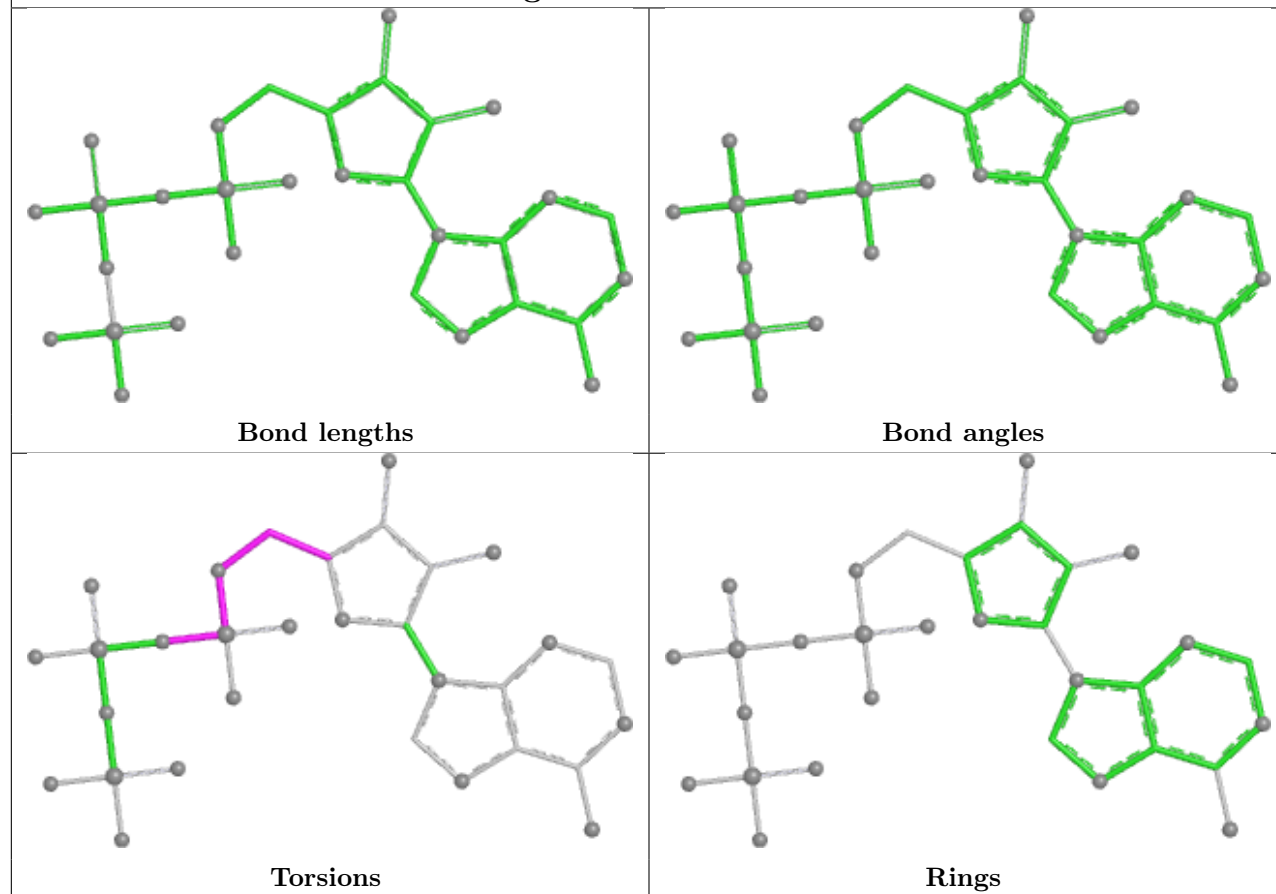
Ligand A1BD2 B 5304



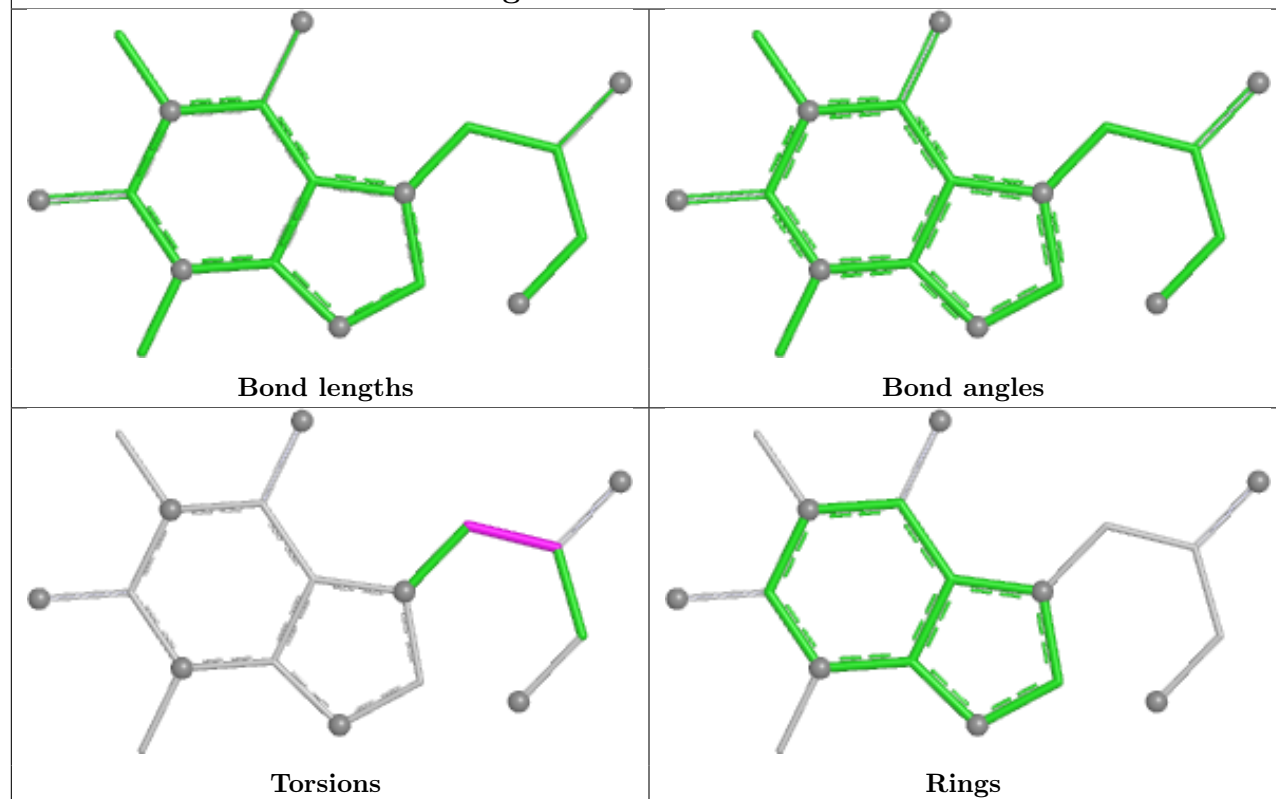




Ligand ATP C 5301



Ligand A1BD2 C 5304



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.

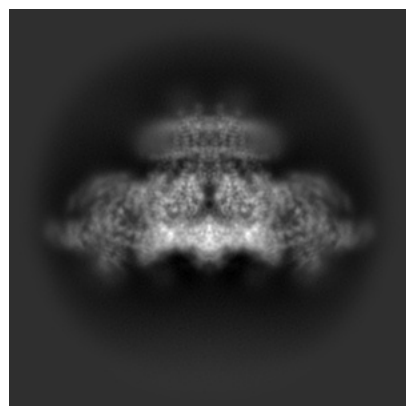
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47387. These allow visual inspection of the internal detail of the map and identification of artifacts.

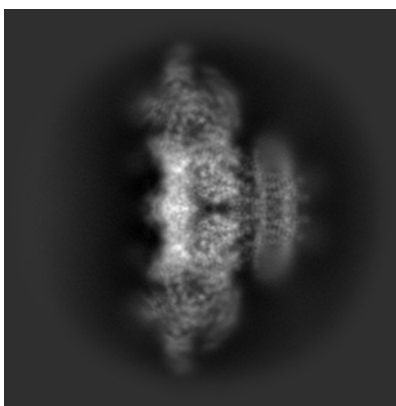
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

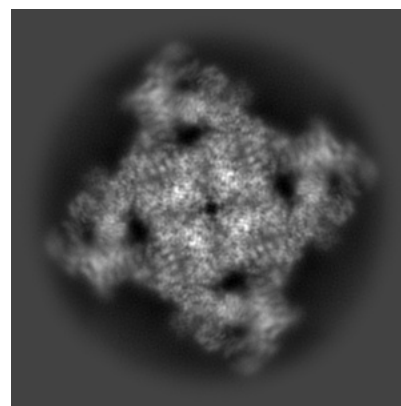
6.1.1 Primary map



X

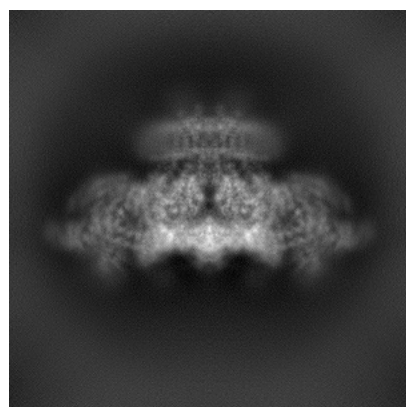


Y

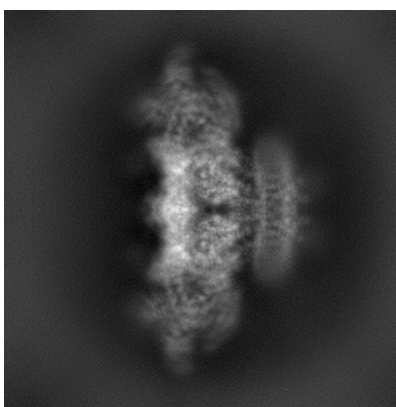


Z

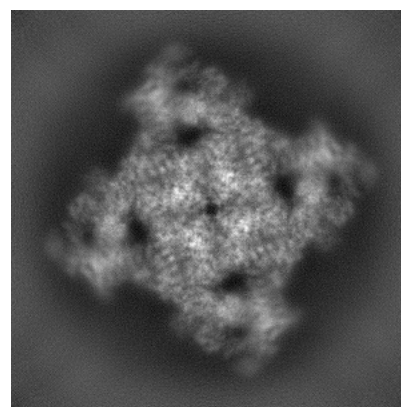
6.1.2 Raw map



X



Y

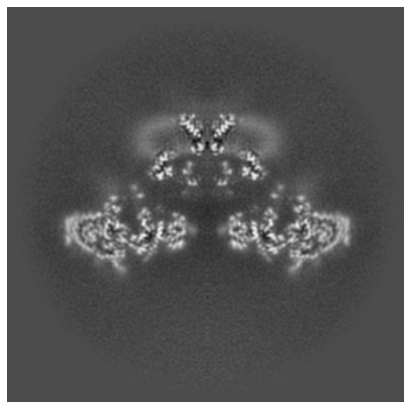


Z

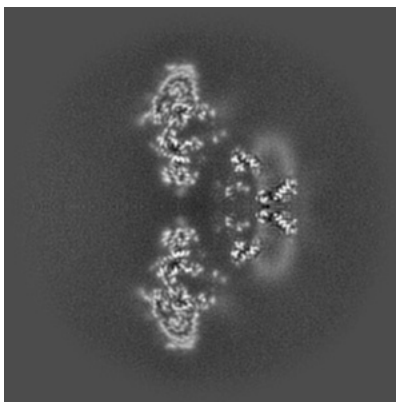
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

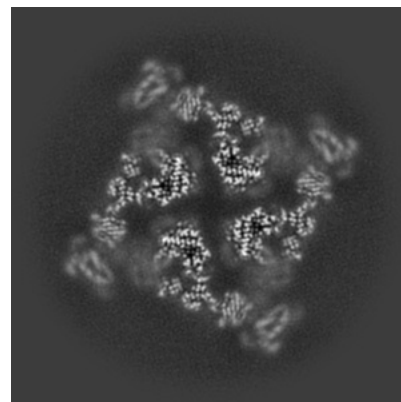
6.2.1 Primary map



X Index: 256

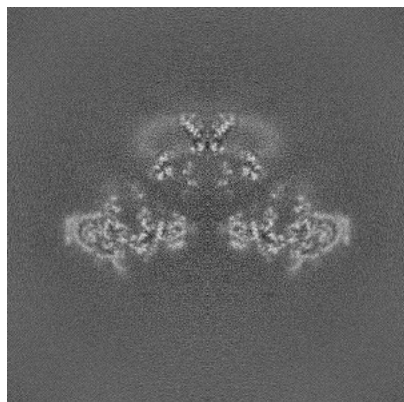


Y Index: 256

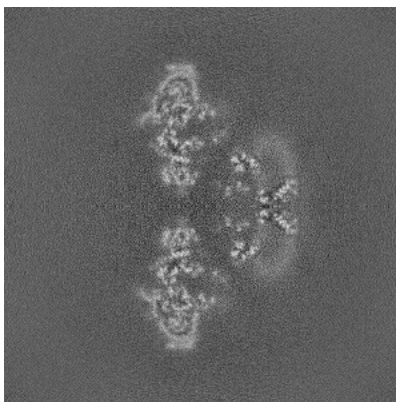


Z Index: 256

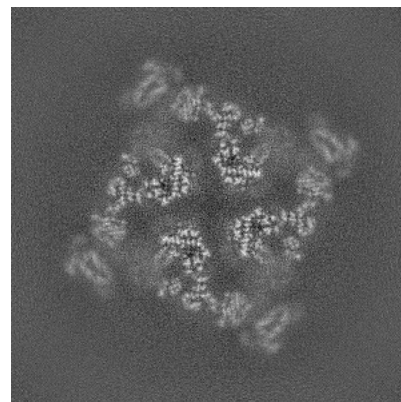
6.2.2 Raw map



X Index: 256



Y Index: 256

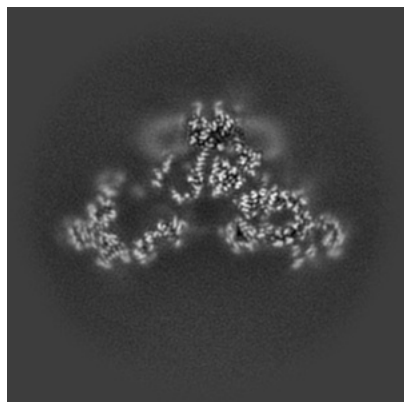


Z Index: 256

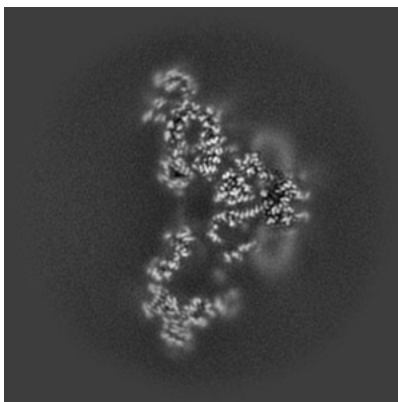
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

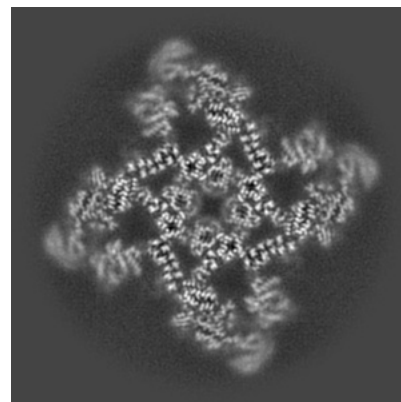
6.3.1 Primary map



X Index: 268

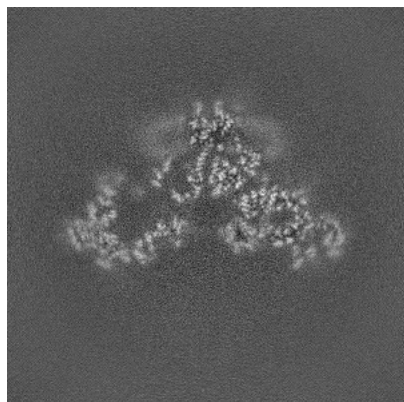


Y Index: 244

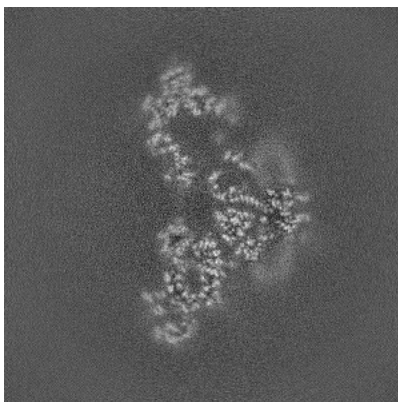


Z Index: 229

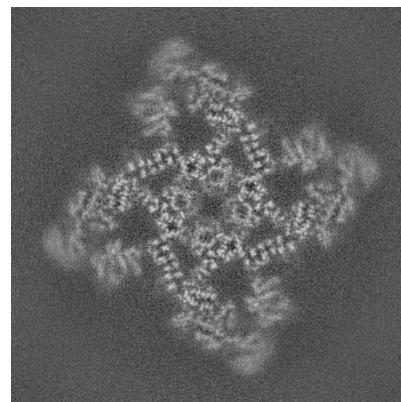
6.3.2 Raw map



X Index: 268



Y Index: 268

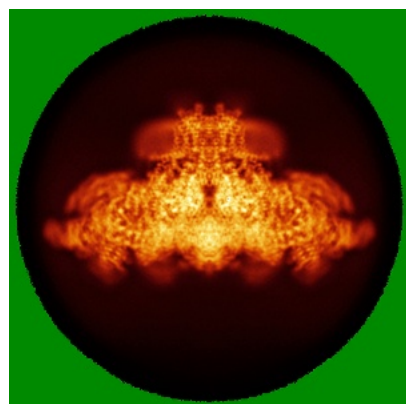


Z Index: 229

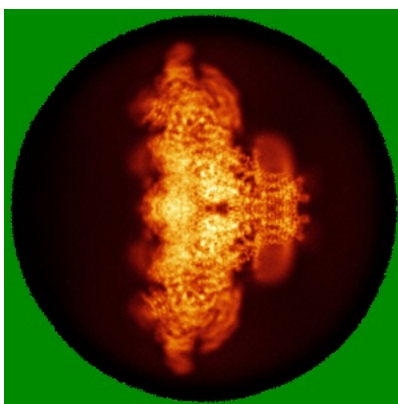
The images above show the largest variance slices of the map in three orthogonal directions.

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

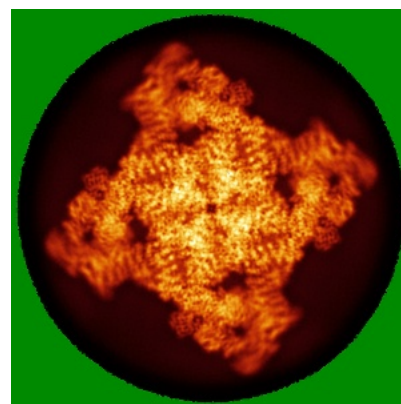
6.4.1 Primary map



X

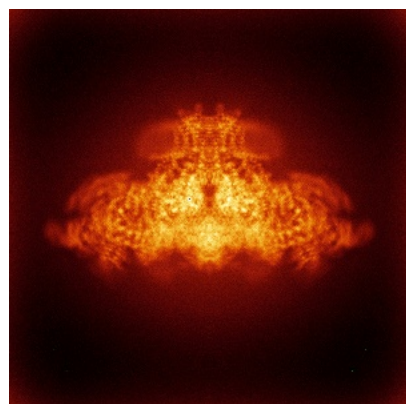


Y

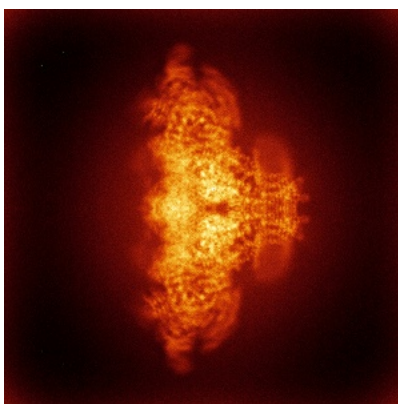


Z

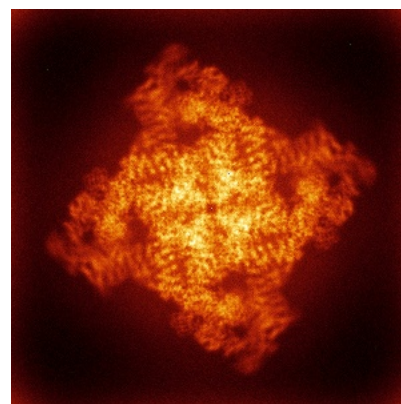
6.4.2 Raw map



X



Y

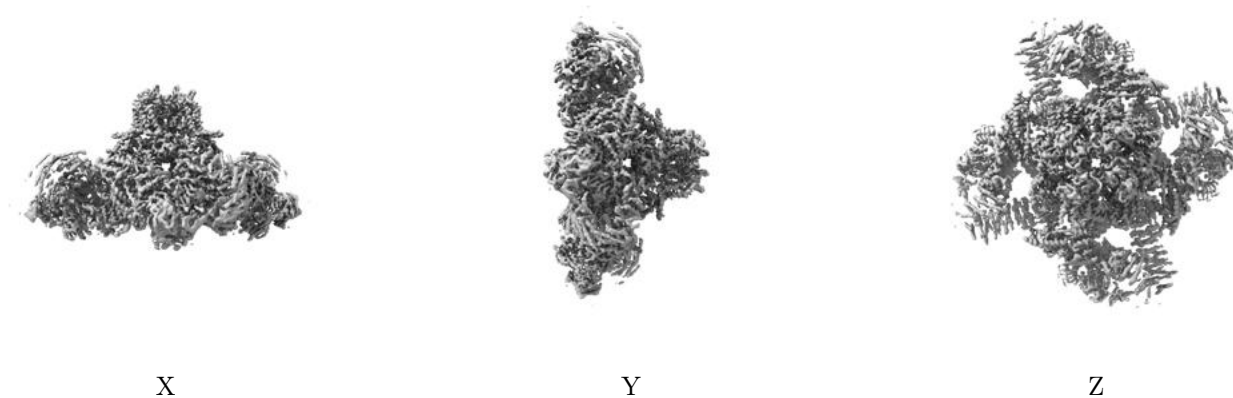


Z

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

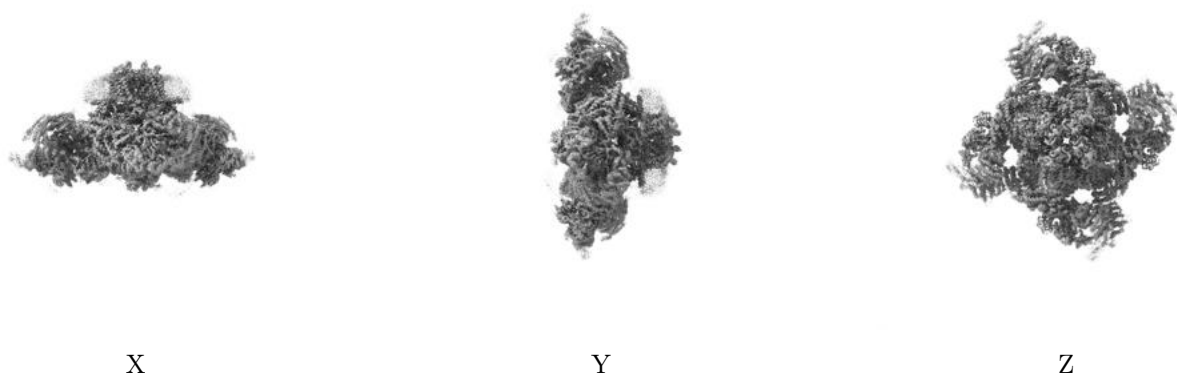
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



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

6.5.2 Raw map



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

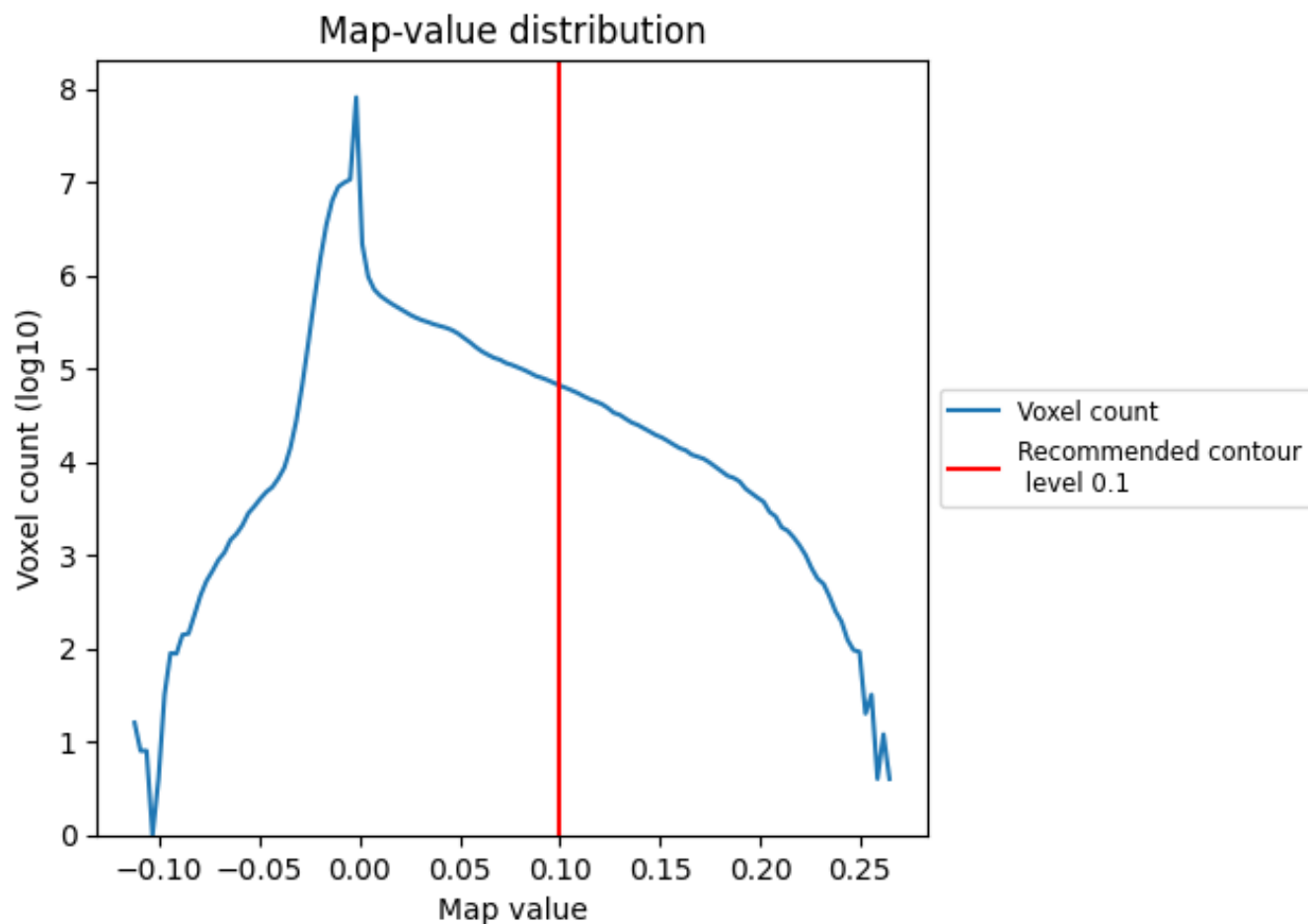
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

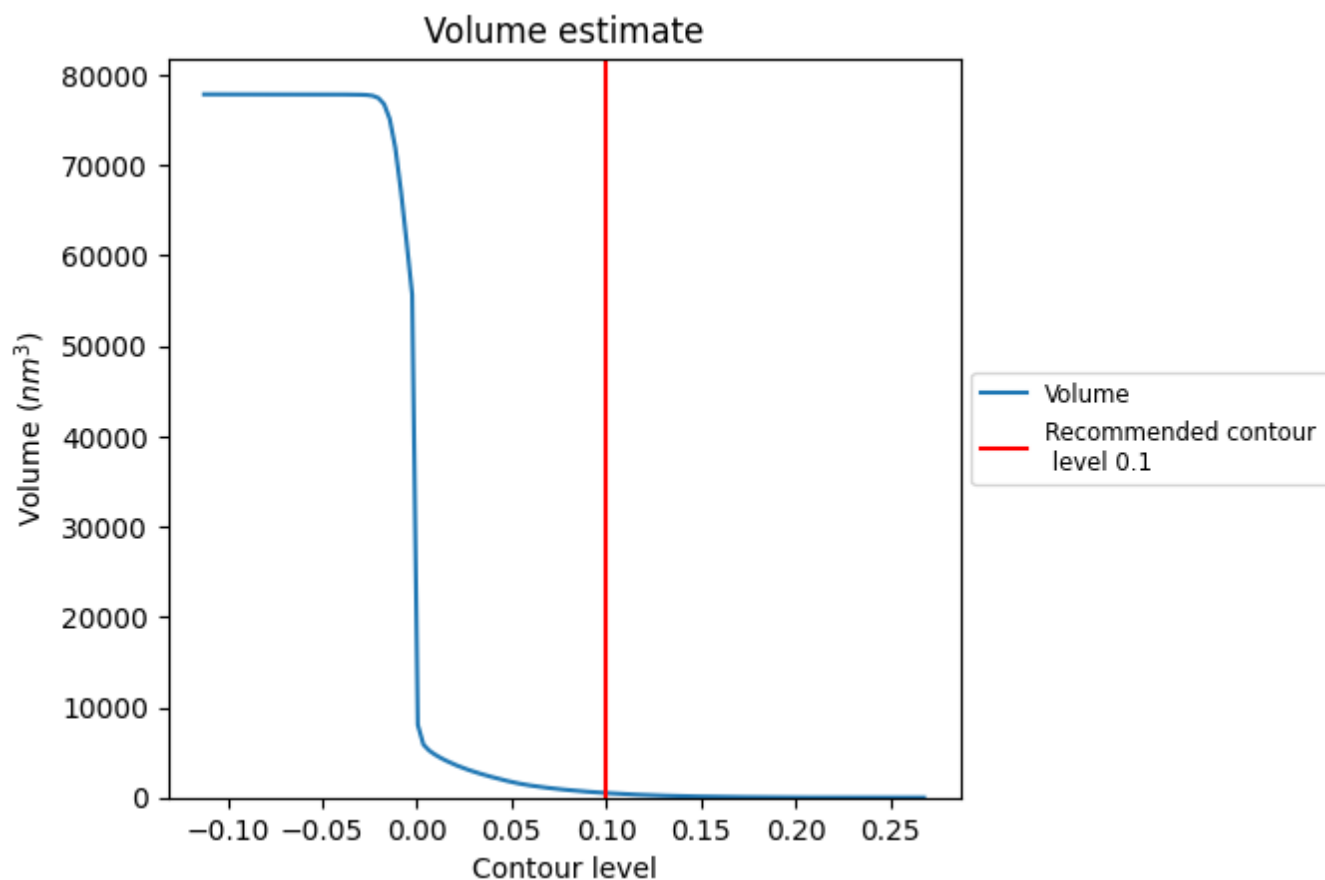
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

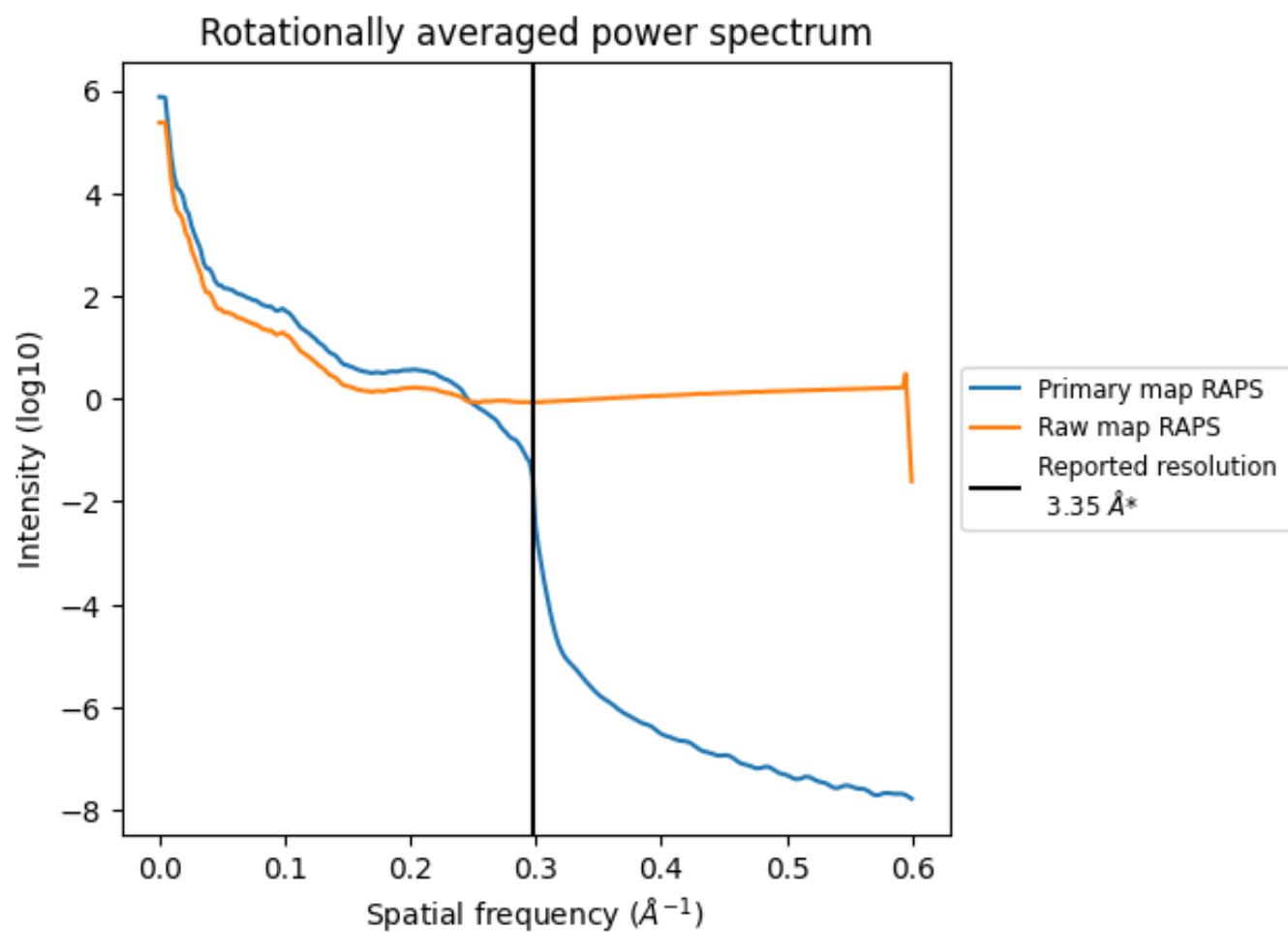
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 502 nm^3 ; this corresponds to an approximate mass of 453 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

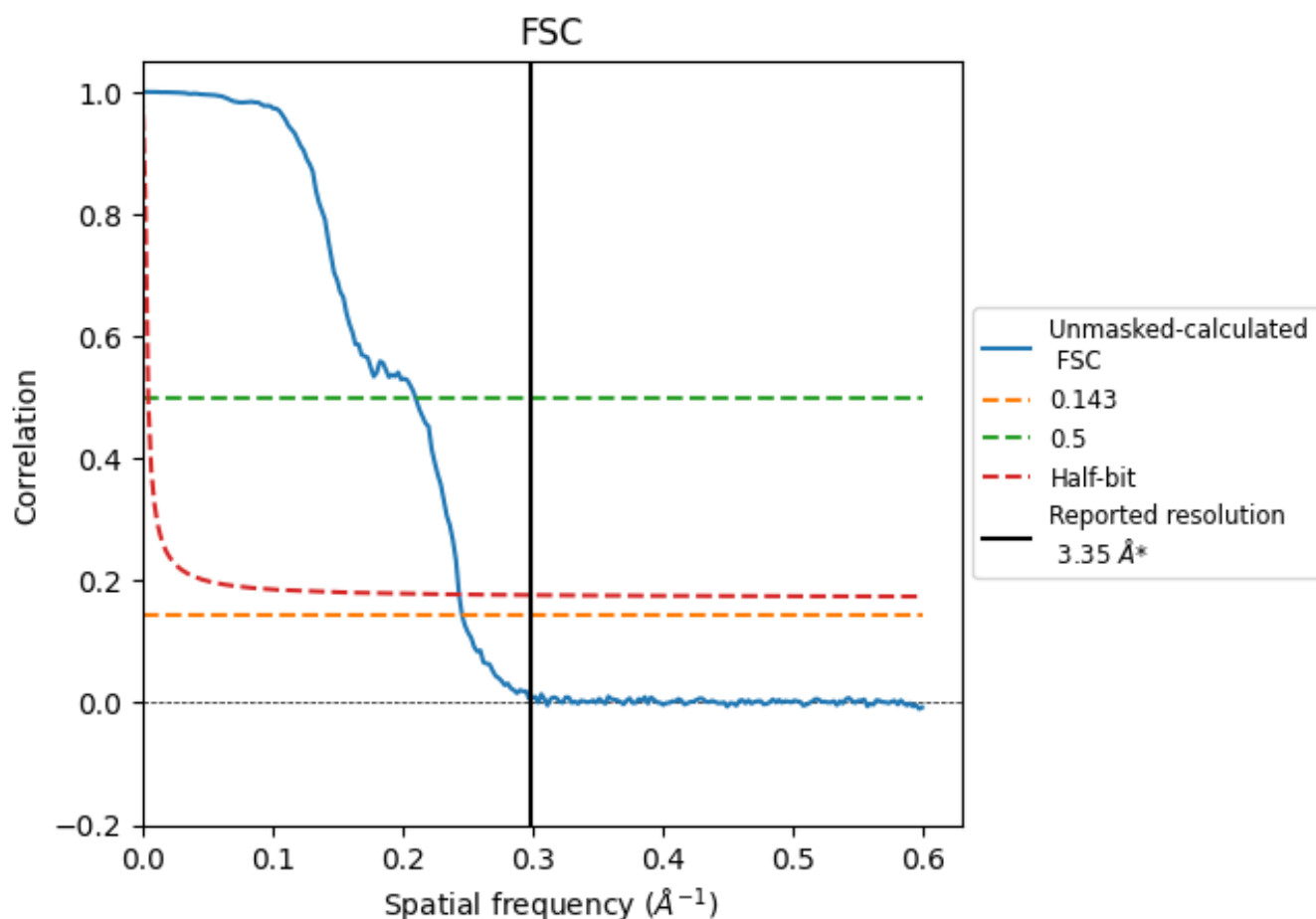


*Reported resolution corresponds to spatial frequency of 0.299 Å⁻¹

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 0.299 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

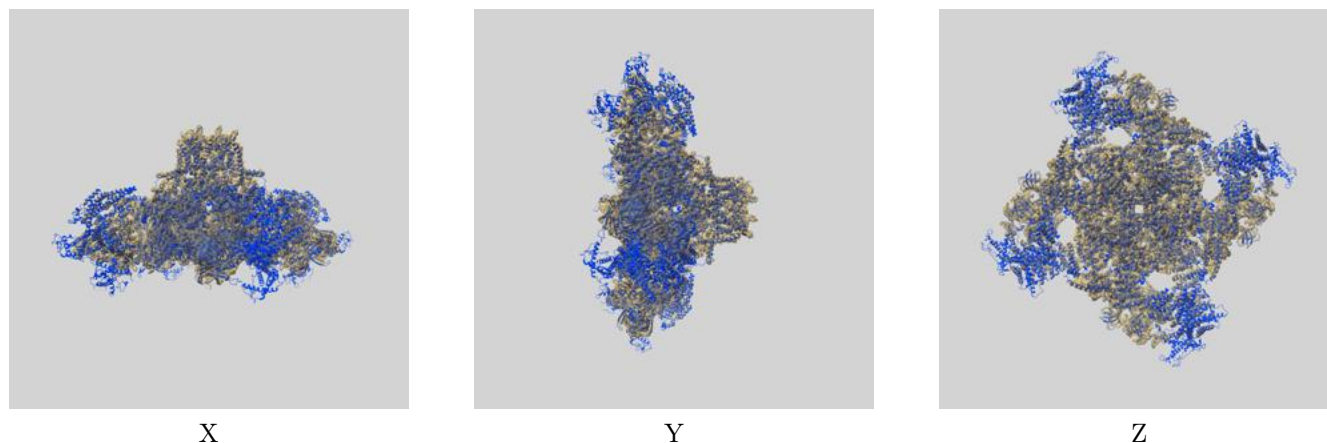
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.35	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.07	4.76	4.11

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.07 differs from the reported value 3.35 by more than 10 %

9 Map-model fit [i](#)

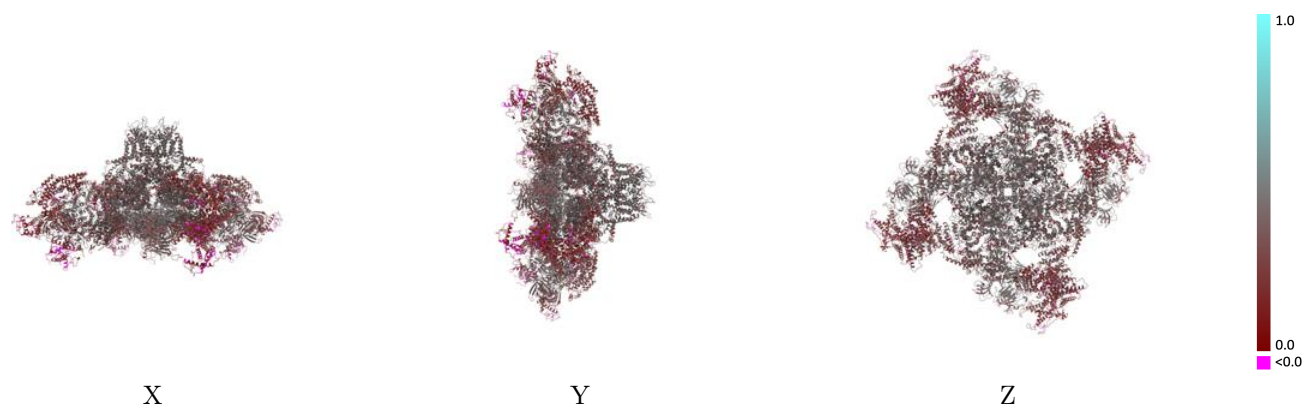
This section contains information regarding the fit between EMDB map EMD-47387 and PDB model 9E1A. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



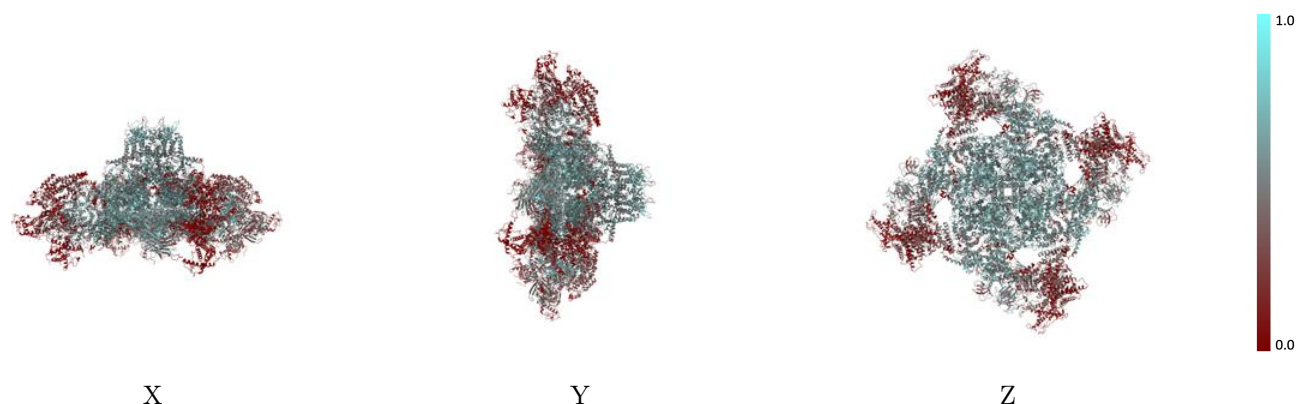
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



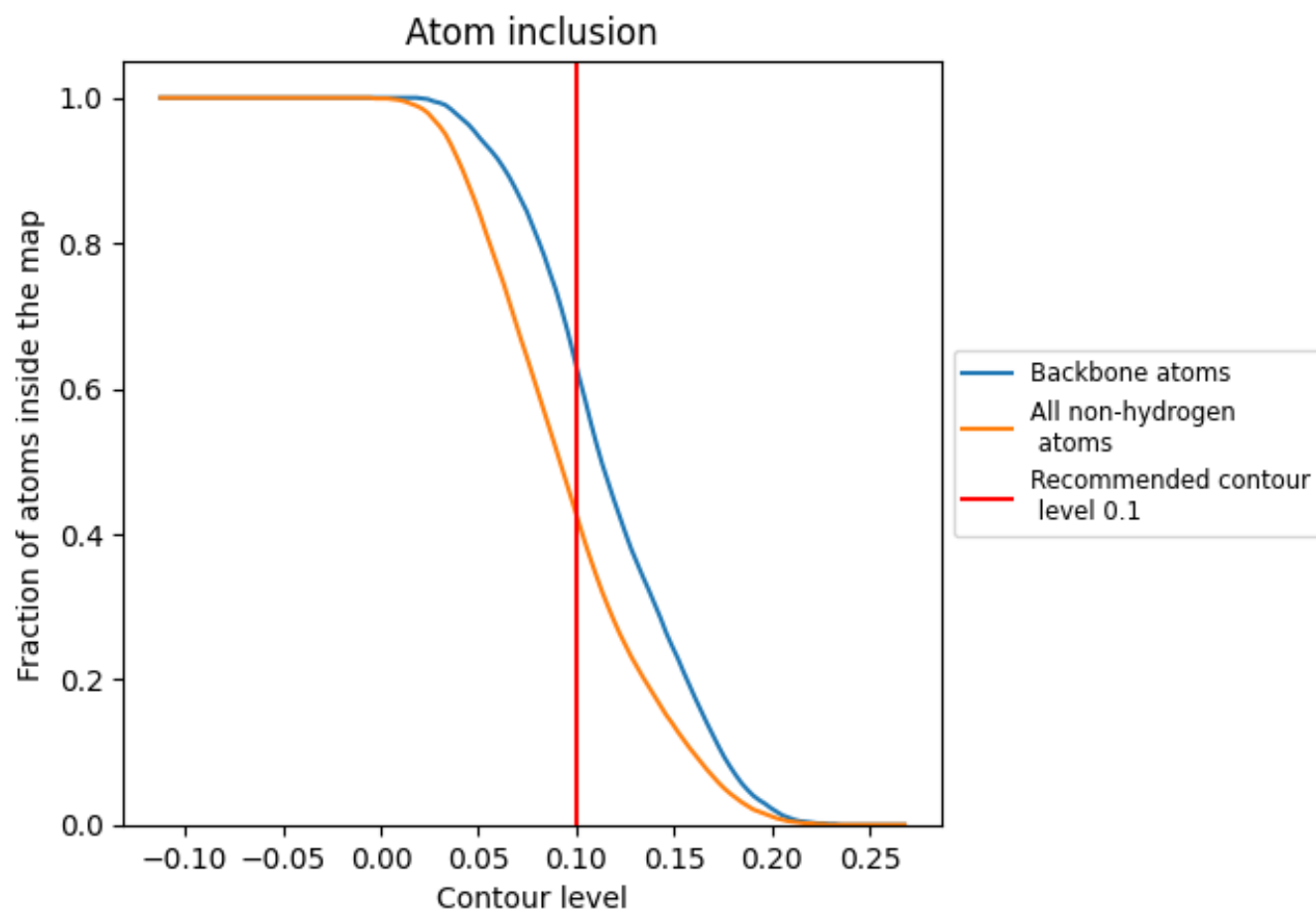
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.1).

9.4 Atom inclusion ⓘ



At the recommended contour level, 63% of all backbone atoms, 43% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4260	0.3280
A	0.4280	0.3280
B	0.4280	0.3270
C	0.4280	0.3270
D	0.4280	0.3270
E	0.3290	0.3760
F	0.3310	0.3770
G	0.3340	0.3760
H	0.3300	0.3750

1.0

0.0

<0.0