



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 02:13 AM UTC

PDB ID : 7LT3 / pdb_00007lt3
EMDB ID : EMD-23510
Title : NHEJ Long-range synaptic complex
Authors : He, Y.; Chen, S.
Deposited on : 2021-02-18
Resolution : 4.60 Å(reported)
Based on initial models : 6ERH, 6ZHA, 1JEY, 5LUQ, 5Y3R, 2R9A, 3II6

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

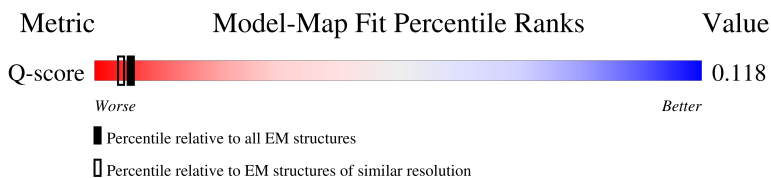
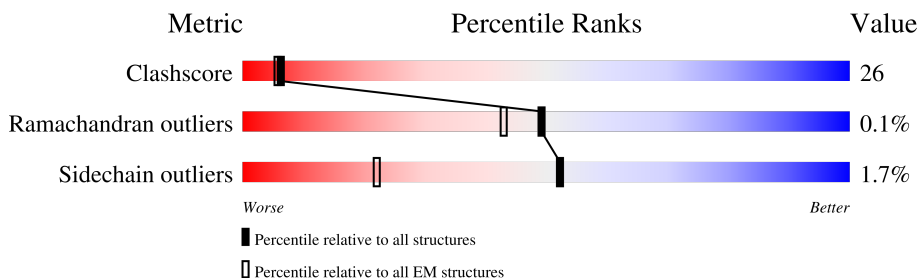
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2407 (4.10 - 5.10)

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	609	
1	J	609	
2	B	732	
2	K	732	

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Mol	Chain	Length	Quality of chain
3	C	4128	
3	L	4128	
4	Q	20	
4	R	20	
5	D	31	
5	M	31	
6	E	30	
6	N	30	
7	F	336	
7	G	336	
7	O	336	
7	P	336	
8	H	299	
8	I	299	
9	X	911	
9	Y	911	

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 93244 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	497	Total	C	N	O	S	0	0
			4021	2577	680	746	18		
1	J	497	Total	C	N	O	S	0	0
			4021	2577	680	746	18		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	531	Total	C	N	O	S	0	0
			4259	2723	711	801	24		
2	K	531	Total	C	N	O	S	0	0
			4259	2723	711	801	24		

- Molecule 3 is a protein called DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	3720	Total	C	N	O	S	0	0
			29811	19106	5059	5451	195		
3	L	3720	Total	C	N	O	S	0	0
			29811	19106	5059	5451	195		

- Molecule 4 is a protein called Unknown peptide.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	Q	20	Total	C	N	O	0	0
			101	60	20	21		
4	R	20	Total	C	N	O	0	0
			101	60	20	21		

- Molecule 5 is a DNA chain called DNA (31-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	D	31	Total	C	N	O	P	0	0
			634	304	113	186	31		
5	M	31	Total	C	N	O	P	0	0
			634	304	113	186	31		

- Molecule 6 is a DNA chain called DNA (30-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	E	30	Total	C	N	O	P	0	0
			616	295	110	181	30		
6	N	30	Total	C	N	O	P	0	0
			616	295	110	181	30		

- Molecule 7 is a protein called DNA repair protein XRCC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	F	213	Total	C	N	O	S	0	0
			1736	1093	308	327	8		
7	G	195	Total	C	N	O	S	0	0
			1595	1012	272	304	7		
7	O	195	Total	C	N	O	S	0	0
			1595	1012	272	304	7		
7	P	213	Total	C	N	O	S	0	0
			1736	1093	308	327	8		

- Molecule 8 is a protein called Non-homologous end-joining factor 1.

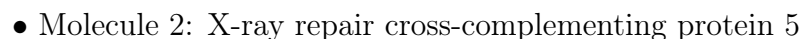
Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	223	Total	C	N	O	S	0	0
			1779	1140	298	326	15		
8	I	218	Total	C	N	O	S	0	0
			1737	1111	290	321	15		

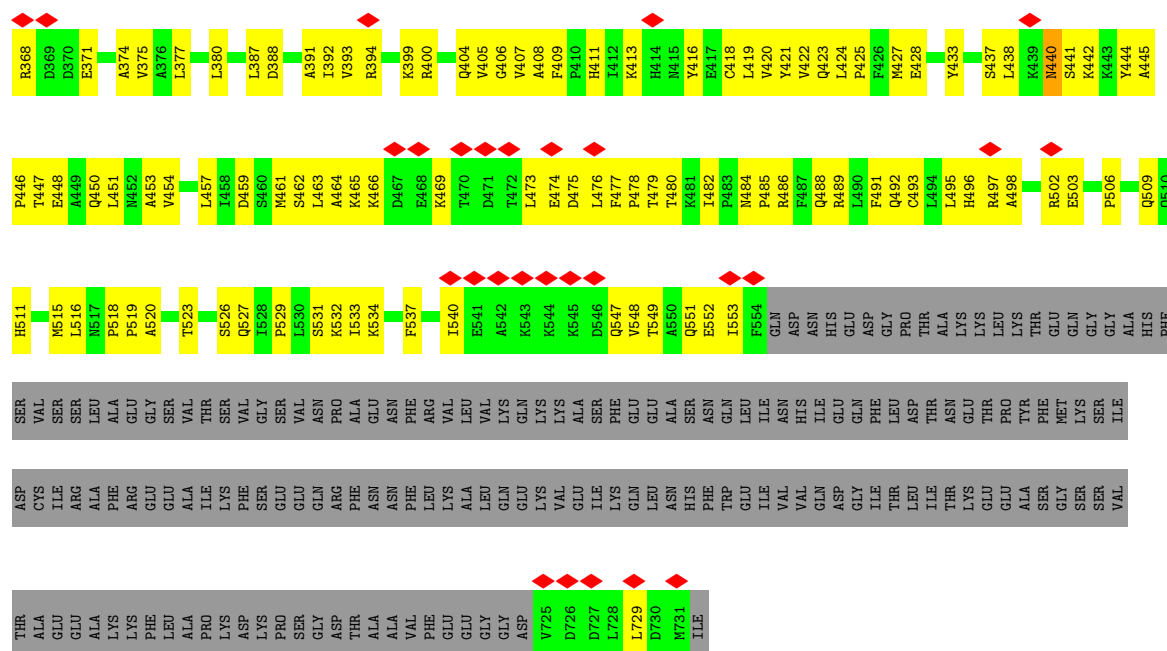
- Molecule 9 is a protein called DNA ligase 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	X	254	Total	C	N	O	S	0	0
			2064	1314	348	389	13		
9	Y	254	Total	C	N	O	S	0	0
			2064	1314	348	389	13		

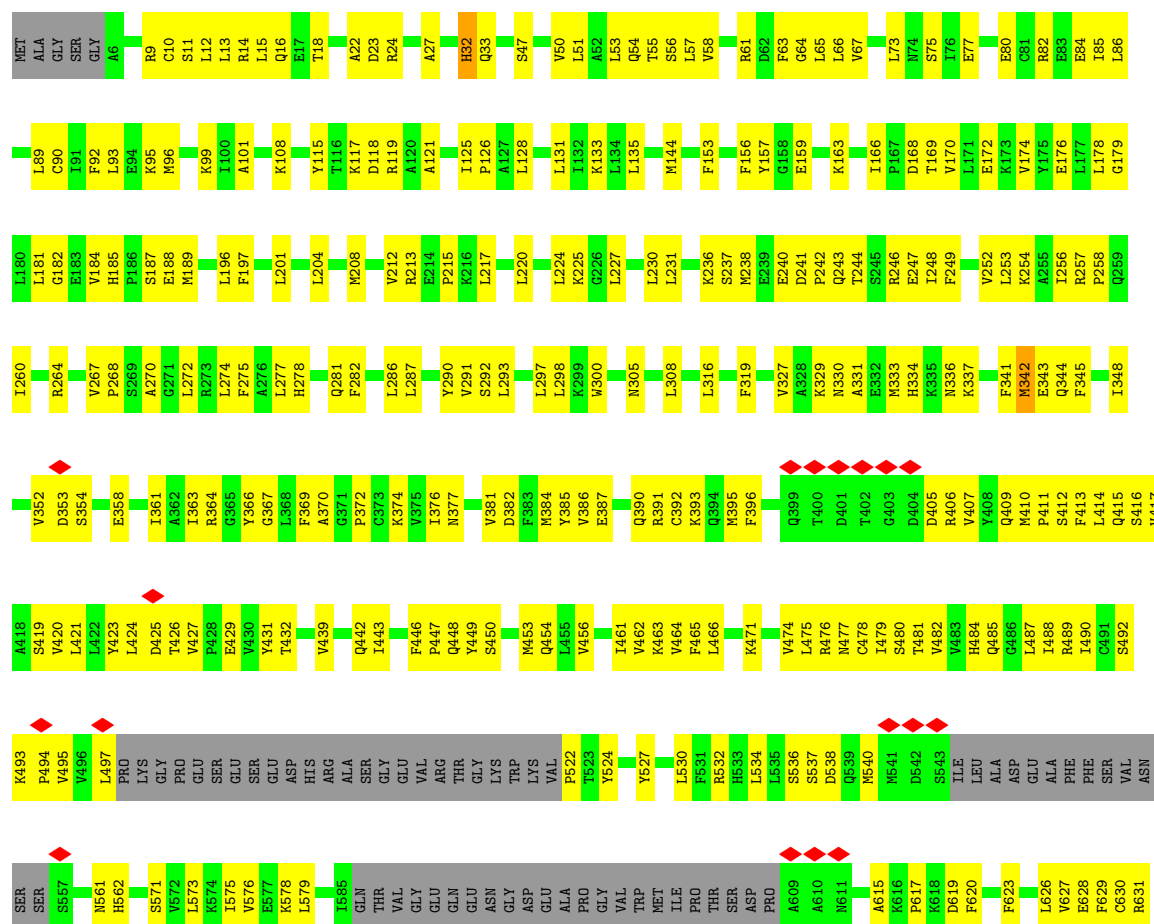
- Molecule 10 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).







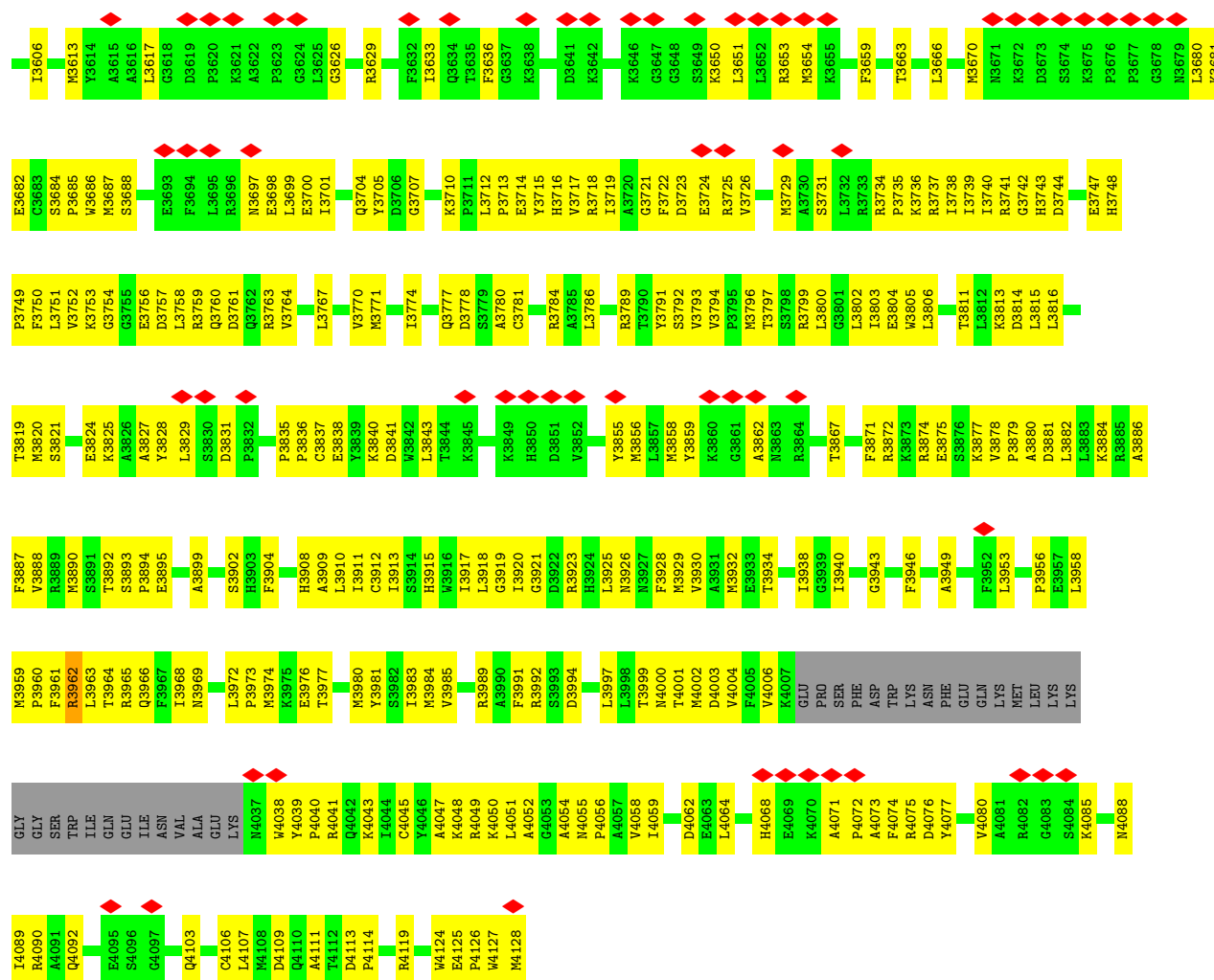
• Molecule 3: DNA-dependent protein kinase catalytic subunit



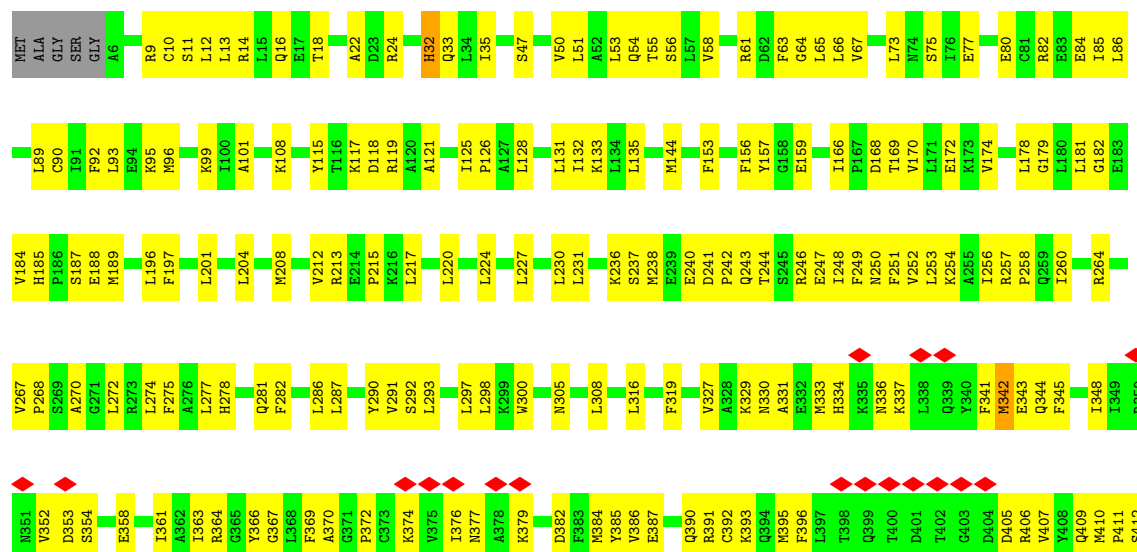




V3530	A3461	S3386	Q3296	L3160	Q3074	W2994	ARG	ASN	SER	L2519
Y3531	F3532	V3389	V3297	L3161	R3075	W2994	VAL	LYS	SER	L2520
F3532	L3463	Q3390	V3300	T3162	A3076	E2995	ARG	VAL	PHE	L2521
L3463	F3533	Q3390	V3300	T3163	I3077	L2996	GLY	LYS	ASP	F2597
L3464	F3534	A3391	L3301	W3164	L3078	L2996	LYS	ALA	TRP	R2598
F3465	F3535	A3392	R3302	T3165	E3079	L2999	ALA	ALA	LEU	W2524
S3536	F3466	F3393	R3322	R3166	Y3082	L3005	R2915	ALA	THR	W2525
S3537	L3467	V3304	S3233	L3167	Y3082	L3005	L2916	ALA	GLY	T2529
Y3540	L3468	ALA	F3236	R3168	Y3089	A3006	P2917	ALA	THR	R2530
S3541	Q3470	GLN	S3237	P3169	L3089	A3006	P2917	ALA	SER	L2531
F3542	L3471	PRO	M3238	P3172	L3091	W3008	P2918	ALA	THR	T2603
F3543	L3472	PRO	K3239	F3175	D3097	E3012	V2924	ALA	ASP	P2604
D3544	E3477	SER	M3242	M3176	R3098	Y3013	K2928	ALA	PRO	T2535
T3545	E3478	TRP	I3243	M3177	R3098	T3016	L2928	ALA	LEU	L2536
S3546	F3478	CYS	D3244	L3178	Y3101	T3016	Y2936	ALA	VAL	D2557
K3550	L3482	GLY	S3245	W3179	Y3102	I3019	R2931	ALA	THR	R2538
N3551	F3483	PRO	A3246	D3180	I3103	E3022	I2933	ALA	THR	L2539
F3554	R3485	PRO	R3247	T3183	I3107	R3024	G2935	ALA	PRO	T2544
V3555	F3486	PRO	K3248	T3184	I3107	P3024	F2936	ALA	SER	L2545
R3557	L3487	GLN	R3249	N3185	M3111	I3030	Y2942	ALA	LEU	P2548
L3558	S3488	GLN	N3250	N3185	Y3114	I3030	I2942	ALA	GLN	K2549
K3559	F3490	GLN	F3251	R3186	S3115	S3032	F2943	ALA	THR	T2550
S3560	A3412	GLN	N3251	R3186	S3116	E3033	T2944	ALA	THR	E2551
K3561	Q3413	GLN	F3256	F3189	S3116	F3034	S2945	ALA	THR	Y2552
L3562	F3414	GLN	M3257	L3190	L3121	F3035	S2946	ALA	THR	W2553
D3563	Q3414	GLN	L3258	L3193	H3122	Y3036	I2947	ALA	THR	F2554
Q3564	F3495	GLN	L3259	K3196	Q3123	Q3037	I2947	ALA	THR	S2556
I3568	F3497	GLN	L3262	L3197	L3126	L3041	K2950	ALA	THR	L2557
L3572	W3498	GLN	H3263	T3198	T3127	P3042	Q2951	ALA	THR	L2562
N3573	L3424	GLN	K3264	P3199	K3128	Y3043	Q2954	ALA	THR	L2563
A3574	R3425	GLN	E3265	LEU	L3129	N3044	S2955	ALA	THR	E2564
D3576	N3430	GLN	S3266	PRO	Q3130	I3045	A2956	ALA	THR	M2565
L3577	A3431	GLN	R3267	GLU	S3131	R3046	L2957	ALA	THR	T2566
Q3577	N3432	GLN	R3268	ASP	Y3132	S3047	L2958	ALA	THR	S2567
L3578	S3433	GLN	D3270	ASN	Q3133	K3048	A2959	ALA	THR	M2568
S3579	T3434	GLN	D3271	SER	A3134	L3049	E2960	ALA	THR	S2569
N3580	D3435	GLN	W3272	ASN	L3135	K3050	A2961	ALA	THR	P2570
P3581	S3436	GLN	L3273	VAL	I3138	L3053	R2962	ALA	THR	D2571
E3582	A3437	GLN	V3274	ASP	F3141	D3058	Y2965	ALA	THR	Y2572
L3583	E3438	GLN	V3277	GLN	Q3145	Q3059	Q2971	ALA	THR	M2576
F3585	Q3440	GLN	C3281	ASP	I3145	S3060	Y2972	ALA	THR	F2577
W3588	A3441	GLN	E3371	PRO	Q3148	L3061	D2973	ALA	THR	E2578
R3593	Y3442	GLN	I3374	ASP	L3151	T3063	E2974	ALA	THR	H2579
L3596	P3443	GLN	A3375	ASP	S3152	T3065	A2975	ALA	THR	P2580
A3597	A3444	GLN	R3378	ARG	S3153	D3066	L2976	ALA	THR	L2581
K3598	W3446	GLN	Y3379	MET	Q3154	K3067	N2977	ALA	THR	E2582
T3599	V3447	GLN	Q3291	GLU	V3155	A3068	W2981	ALA	THR	C2584
P3600	E3448	GLN	Q3292	VAL	P3156	K3069	G2984	ALA	THR	F2586
V3601	M3450	GLN	C3293	GLU	L3157	H3070	E2986	ALA	THR	Q2587
N3602	T3529	GLU	E3295	GLU	R3159	G3071	A2989	ALA	THR	Y2589



● Molecule 3: DNA-dependent protein kinase catalytic subunit



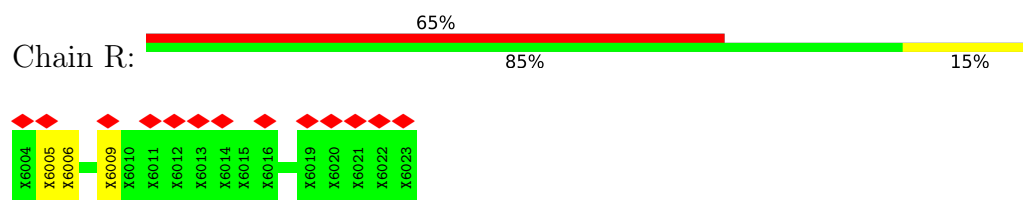
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E1310	L1242	Q1098	D1015	A845	E767	E699	F629	SER	K493	A418
K1311	Y1243	L1165	G1016	I846	V768	C703	C630	SER	P494	S419
CYS	LEU	L1166	I1017	S847	G769	L706	E632	ASP	V495	V420
PHE	ARG	F1101	V1018	L848	L771	F707	I633	PRO	L496	L421
GLY	GLY	A1102	D1022	1851	A772	V708	E640	PRO	L497	L422
THR	PHE	A1103	L1025	1853	E774	K709	F642	LYS	L497	Y423
ALA	L1171	I1106	F1028	1855	E775	F710	F641	GLY	PRO	D425
GLY	L1172	M1108	C1029	1856	E775	K712	F643	PRO	GLY	T426
ALA	A1174	E1109	C1032	1858	E778	E713	P644	SER	GLY	T427
GLY	H1175	S1110	C1033	1859	E779	V714	E644	SER	GLY	V428
GLY	C1176	L1111	I1033	1861	R782	V716	Y647	GLY	GLY	Y430
ALA	G1177	A1112	R1034	1862	R782	V716	S648	GLY	GLY	Y431
ALA	L1178	E1035	R1036	1863	Y788	K717	F649	GLY	GLY	T432
ALA	P1179	F1036	L1037	1864	Y789	M718	S650	GLY	GLY	Y433
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ALA	R1184	G952	Q953	1868	I793	E724	L654	GLY	GLY	Y437
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ALA	F1191	P957	M958	1870	E795	L726	R659	GLY	GLY	Y439
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ALA	L1197	S1052	T965	1874	Y799	L734	S664	GLY	GLY	Y443
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ALA	N1201	Y1064	L970	1879	Y799	N739	L670	GLY	GLY	Y448
ALA	N1205	Y1064	L971	1880	Y799	I741	S671	GLY	GLY	Y449
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ALA	N1207	Y1064	L972	1882	Y799	L743	A677	GLY	GLY	Y451
ALA	N1208	Y1064	L973	1883	Y799	D744	K678	GLY	GLY	Y452
ALA	N1209	Y1064	L974	1884	Y799	V745	K679	GLY	GLY	Y453
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ALA	N1215	Y1064	L980	1890	Y799	L752	V686	GLY	GLY	Y459
ALA	N1216	Y1064	L981	1891	Y799	Q753	SER	GLY	GLY	Y460
ALA	N1217	Y1064	L982	1892	Y799	M754	PRO	GLY	GLY	Y461
ALA	N1218	Y1064	L983	1893	Y799	K757	PRO	GLY	GLY	Y462
ALA	N1219	Y1064	L984	1894	Y799	L758	PRO	GLY	GLY	Y463
ALA	N1220	Y1064	L985	1895	Y799	G759	PRO	GLY	GLY	Y464
ALA	N1221	Y1064	L986	1896	Y799	L760	PRO	GLY	GLY	Y465
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ALA	N1223	Y1064	L988	1898	Y799	T762	PRO	GLY	GLY	Y467
ALA	N1224	Y1064	L989	1899	Y799	T763	PRO	GLY	GLY	Y468
ALA	N1225	Y1064	L990	1900	Y799	P764	PRO	GLY	GLY	Y469
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ALA	N1231	Y1064	L996	1906	Y799	ASP	PRO	GLY	GLY	Y475
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ALA	N1233	Y1064	L998	1908	Y799	ASP	PRO	GLY	GLY	Y477
ALA	N1234	Y1064	L999	1909	Y799	ASP	PRO	GLY	GLY	Y478
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ALA	N1240	Y1064	L1005	1915	Y799	ASP	PRO	GLY	GLY	Y484
ALA	N1241	Y1064	L1006	1916	Y799	ASP	PRO	GLY	GLY	Y485
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ALA	N1243	Y1064	L1008	1918	Y799	ASP	PRO	GLY	GLY	Y487
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ALA	N1245	Y1064	L1010	1920	Y799	ASP	PRO	GLY	GLY	Y489
ALA	N1246	Y1064	L1011	1921	Y799	ASP	PRO	GLY	GLY	Y490
ALA	N1247	Y1064	L1012	1922	Y799	ASP	PRO	GLY	GLY	Y491
ALA	N1248	Y1064	L1013	1923	Y799	ASP	PRO	GLY	GLY	Y492
ALA	N1249	Y1064	L1014	1924	Y799	ASP	PRO	GLY	GLY	Y493
ALA	N1250	Y1064	L1015	1925	Y799	ASP	PRO	GLY	GLY	Y494
ALA	N1251	Y1064	L1016	1926	Y799	ASP	PRO	GLY	GLY	Y495
ALA	N1252	Y1064	L1017	1927	Y799	ASP	PRO	GLY	GLY	Y496
ALA	N1253	Y1064	L1018	1928	Y799	ASP	PRO	GLY	GLY	Y497
ALA	N1254	Y1064	L1019	1929	Y799	ASP	PRO	GLY	GLY	Y498
ALA	N1255	Y1064	L1020	1930	Y799	ASP	PRO	GLY	GLY	Y499
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ALA	N1257	Y1064	L1022	1932	Y799	ASP	PRO	GLY	GLY	Y501
ALA	N1258	Y1064	L1023	1933	Y799	ASP	PRO	GLY	GLY	Y502
ALA	N1259	Y1064	L1024	1934	Y799	ASP	PRO	GLY	GLY	Y503
ALA	N1260	Y1064	L1025	1935	Y799	ASP	PRO	GLY	GLY	Y504
ALA	N1261	Y1064	L1026	1936	Y799	ASP	PRO	GLY	GLY	Y505
ALA	N1262	Y1064	L1027	1937	Y799	ASP	PRO	GLY	GLY	Y506
ALA	N1263	Y1064	L1028	1938	Y799	ASP	PRO	GLY	GLY	Y507
ALA	N1264	Y1064	L1029	1939	Y799	ASP	PRO	GLY	GLY	Y508
ALA	N1265	Y1064	L1030	1940	Y799	ASP	PRO	GLY	GLY	Y509
ALA	N1266	Y1064	L1031	1941	Y799	ASP	PRO	GLY	GLY	Y510
ALA	N1267	Y1064	L1032	1942	Y799	ASP	PRO	GLY	GLY	Y511
ALA	N1268	Y1064	L1033	1943	Y799	ASP	PRO	GLY	GLY	Y512
ALA	N1269	Y1064	L1034	1944	Y799	ASP	PRO	GLY	GLY	Y513
ALA	N1270	Y1064	L1035	1945	Y799	ASP	PRO	GLY	GLY	Y514
ALA	N1271	Y1064	L1036	1946	Y799	ASP	PRO	GLY	GLY	Y515
ALA	N1272	Y1064	L1037	1947	Y799	ASP	PRO	GLY	GLY	Y516
ALA	N1273	Y1064	L1038	1948	Y799	ASP	PRO	GLY	GLY	Y517
ALA	N1274	Y1064	L1039	1949	Y799	ASP	PRO	GLY	GLY	Y518
ALA	N1275	Y1064	L1040	1950	Y799	ASP	PRO	GLY	GLY	Y519
ALA	N1276	Y1064	L1041	1951	Y799	ASP	PRO	GLY	GLY	Y520
ALA	N1277	Y1064	L1042	1952	Y799	ASP	PRO	GLY	GLY	Y521
ALA	N1278	Y1064	L1043	1953	Y799	ASP	PRO	GLY	GLY	Y522
ALA	N1279	Y1064	L1044	1954	Y799	ASP	PRO	GLY	GLY	Y523
ALA	N1280	Y1064	L1045	1955	Y799	ASP	PRO	GLY	GLY	Y524
ALA	N1281	Y1064	L1046	1956	Y799	ASP	PRO	GLY	GLY	Y525
ALA	N1282	Y1064	L1047	1957	Y799	ASP	PRO	GLY	GLY	Y526
ALA	N1283	Y1064	L1048	1958	Y799	ASP	PRO	GLY	GLY	Y527
ALA	N1284	Y1064	L1049	1959	Y799	ASP	PRO	GLY	GLY	Y528
ALA	N1285	Y1064	L1050	1960	Y799	ASP	PRO	GLY	GLY	Y529
ALA	N1286	Y1064	L1051	1961	Y799	ASP	PRO	GLY	GLY	Y530
ALA	N1287	Y1064	L1052	1962	Y799	ASP	PRO	GLY	GLY	Y531
ALA	N1288	Y1064	L1053	1963	Y799	ASP	PRO	GLY	GLY	Y532
ALA	N1289	Y1064	L1054	1964	Y799	ASP	PRO	GLY	GLY	Y533
ALA	N1290	Y1064	L1055	1965	Y799	ASP	PRO	GLY	GLY	Y534
ALA	N1291	Y1064	L1056	1966	Y799	ASP	PRO	GLY	GLY	Y535
ALA	N1292	Y1064	L1057	1967	Y799	ASP	PRO	GLY	GLY	Y536
ALA	N1293	Y1064	L1058	1968	Y799	ASP	PRO	GLY	GLY	Y537
ALA	N1294	Y1064	L1059	1969	Y799	ASP	PRO	GLY	GLY	Y538
ALA	N1295	Y1064	L1060	1970	Y799	ASP	PRO	GLY	GLY	Y539
ALA	N1296	Y1064	L1061	1971	Y799	ASP	PRO	GLY	GLY	Y540
ALA	N1297	Y1064	L1062	1972	Y799	ASP	PRO	GLY	GLY	Y541
ALA	N1298	Y1064	L1063	1973	Y799	ASP	PRO	GLY	GLY	Y542
ALA	N1299	Y1064	L1064	1974	Y799	ASP	PRO	GLY	GLY	Y543
ALA	N1300	Y1064	L1065	1975	Y799	ASP	PRO	GLY	GLY	Y544
ALA	N1301	Y1064	L1066	1976	Y799	ASP	PRO	GLY	GLY	Y545
ALA	N1302	Y1064	L1067	1977	Y799	ASP	PRO	GLY	GLY	Y546
ALA	N1303	Y1064	L1068	1978	Y799	ASP	PRO	GLY	GLY	Y547
ALA	N1304	Y1064	L1069	1979	Y799	ASP	PRO	GLY	GLY	Y548
ALA	N1305	Y1064	L1070	1980	Y799	ASP	PRO	GLY	GLY	Y549
ALA	N1306	Y1064	L1071	1981	Y799	ASP	PRO	GLY	GLY	Y550
ALA	N1307	Y1064	L1072	1982	Y799	ASP				

P1379	R1445	L1582	D1656	H1721	G1789	T1856	L1918	L1984	PHE	R2106	P2167
S1446	S1447	M1583	S1657	F1722	K1790	K1857	C1919	K1985	SER	S2107	L2168
I1382	R1448	Q1584	S1658	P1723	C1791	L1858	Y1920	H1986	THR	L2108	L2169
F1384	A1518	S1585	V1659	Q1724	Q1794	N1859	D1921	R1987	GLY	GLY	E2175
N1385	F1519	S1586	F1660	M1725	V1795	E1860	A1922	F1990	VAL	PRO	N2176
I1386	A1520	V1587	F1661	S1726	G1796	S1861	F1923	P1991	SER	GLN	N2177
G1387	F1521	D1588	M1662	R1727	L1797	T1862	M1927	V1992	TYR	GLY	G2178
D1388	G1522	N1589	N1663	E1728	F1863	F1863	A1928	GLU	VAL	GLU	G2179
V1391	G1523	K1590	S1664	F1729	E1798	T1865	G1928	VAL	THR	GLU	E2180
M1392	L1524	M1592	H1665	P1730	S1800	T1866	E1930	GLU	SER	ASP	G2181
L1395	C1525	V1593	G1666	P1731	V1801	I1867	N1931	VAL	SER	SER	G2182
P1396	E1526	S1594	G1667	G1732	E1802	T1868	Q1932	PRO	ASP	VAL	I2182
	A1461	A1595	F1668	G1733	M1804	K1869	L1933	MET	PRO	P2119	H2183
C1399	L1527	V1596	P1669	P1734	F1805	K1870	E1935	GLU	ARG	R2120	W2184
L1402	L1528	L1597	E1670	F1735	R1806	M1871	L1936	ARG	ALA	D2121	W2185
M1403	L1464	N1598	V1671	N1736	K1807	Y1873	R1937	LYS	THR	L2122	V2186
M1404	H1465	M1600	Y1675	N1737	D1808	Y1874	R1938	LYS	GLY	S2124	E2188
A1405	I1466	L1601	I1676	D1741	D1809	I1875	R1939	TYR	ARG	W2125	I2189
L1406	I1467	S1604	I1677	K1744	R1810	T1876	L1940	ILE	PHE	M2126	K2191
K1407	L1468	F1605	L1678	K1745	R1811	I1877	H1941	GLU	ARG	K2127	T2192
M1408	P1469	E1606	L1679	F1746	S1812	V1878	C1942	ILE	ARG	F2128	I2193
S1409	Q1470	E1607	A1680	K1747	S1813	D1879	A1943	ARG	ARG	L2129	L2194
P1410	S1471	L1537	D1681	L1748	F1814	M1880	A1944	GLU	GLY	H2130	T2197
Y1411	S1472	T1540	T1682	D1749	T1815	Y1881	Y1945	ALA	ALA	G2131	G2198
K1412	T1473	ALA	T1683	A1749	R1816	S1882	C1947	GLU	GLU	K2132	L2199
D1413	D1474	SER	K1683	L1750	F1819	L1824	V1951	ALA	GLU	L2133	P2200
I1414	I1475	LEU	Q1611	E1751	R1820	L1827	V1955	ASN	ASN	G2134	P2201
L1415	L1476	GLY	K1612	L1752	D1821	L1828	F1956	GLY	GLY	N2135	P2202
E1416	H1477	SER	D1685	S1753	R1822	L1829	N1956	ASP	ASP	I2137	T2203
H1418	H1478	GLN	L1686	G1754	S1823	L1832	F1957	ASP	VAL	V2138	T2204
L1419	V1479	GLY	H1687	S1755	L1824	V1889	E1958	SER	LEU	P2139	V2205
R1420	G1480	V1549	K1688	P1756	L1827	H1890	E1959	GLY	GLU	L2140	K2206
E1421	T1481	I1551	K1689	M1757	L1828	A1891	K1960	PRO	LEU	N2141	K2207
K1422	I1482	H1552	G1690	L1758	L1828	K1892	F1961	SER	SER	I2142	D2208
I1423	L1483	H1553	V1693	E1760	C1831	E1893	Q1962	TYR	TYR	R2143	E2209
T1424	L1486	F1553	T1694	T1763	S1832	N1897	Q1963	SER	THR	A2146	V2210
A1425	V1487	S1554	L1695	V1764	L1833	Q1898	G1964	SER	SER	K2147	L2211
Q1426	Y1488	H1555	P1697	V1765	A1835	V1899	F1965	LEU	LEU	K2148	R2214
S1427	Y1489	Y1558	F1698	C1767	L1836	F1900	F1967	TYR	TYR	L2149	L2215
E1430	T1491	L1562	F1699	R1768	R1837	H1901	S1968	LEU	LEU	V2150	L2216
L1431	P1493	L1563	T1700	E1769	E1838	G1902	K1970	ALA	ASP	N2152	G2217
C1432	G1494	S1564	S1701	L1702	F1839	S1903	P1971	ASP	THR	T2153	F2218
A1433	D1495	E1565	L1703	T1703	S1841	C1904	E1972	SER	THR	E2154	L2219
V1434	E1496	T1567	G1704	Q1771	T1842	I1905	K1973	LEU	LEU	E2155	W2220
N1435	R1497	N1568	S1705	H1772	T1843	T1906	N1974	SER	SER	V2156	K2221
L1436	Q1498	T1569	T1706	V1773	V1844	E1907	L1975	GLU	GLU	F2157	H2222
Y1437	C1499	E1570	L1707	M1774	I1848	G1908	L1976	GLU	GLU	R2158	R2228
G1438	L1500	L1571	E1708	F1778	D1849	N1909	L1977	MET	MET	P2159	W2234
P1439	L1501	L1572	E1709	R1782	K1852	F1910	F1978	GLN	GLN	K2162	A2161
D1440	S1502	L1577	R1710	F1783	S1863	L1911	E1979	PHE	PHE	H2163	H2163
A1441	L1503	L1580	R1711	R1784	R1864	T1912	N1980	ASP	ASP	W2164	K2239
Q1442	S1506	E1581	R1712	I1785	F1865	K1913	L1981			L2165	T2240
V1443	Q1509		V1713	A1786		L1915	I1982			S2166	L2241
D1444	L1510		Q1716	R1787		I1916	D1983				
			L1718	R1788		K1917					

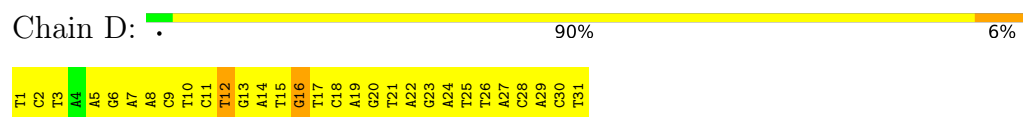
S3266	S3267	S3268	S3269	S3269	C3403	T2491	T2566	T2567	T2568	T2569	T2570	T2571	T2572	T2576	T2577	T2578	T2579	T2580	T2581	T2582	T2583	T2584	T2585	T2586	T2587	T2588	T2589	T2590	T2591	T2592	T2593	T2594	T2595	T2596	T2597	T2598	T2599	T2600	T2601	T2602	T2603	T2604	T2605	PHE	VAL	GLU	THR	ASP	THR	GLN	ALA	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	
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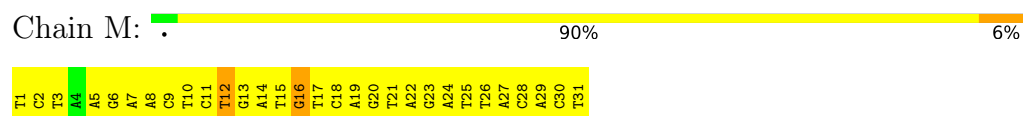
- Molecule 4: Unknown peptide



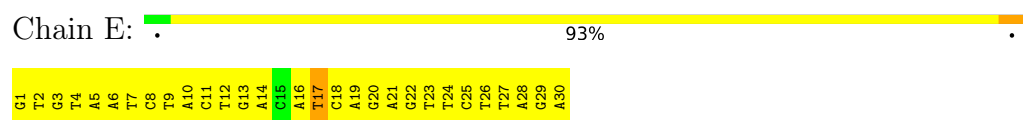
- Molecule 5: DNA (31-MER)



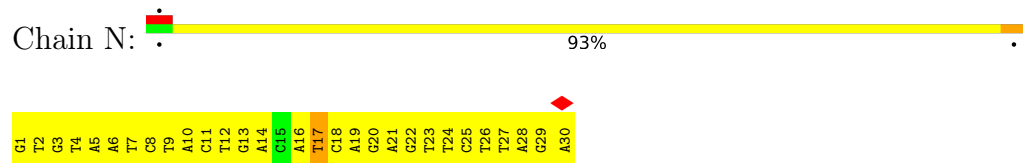
- Molecule 5: DNA (31-MER)



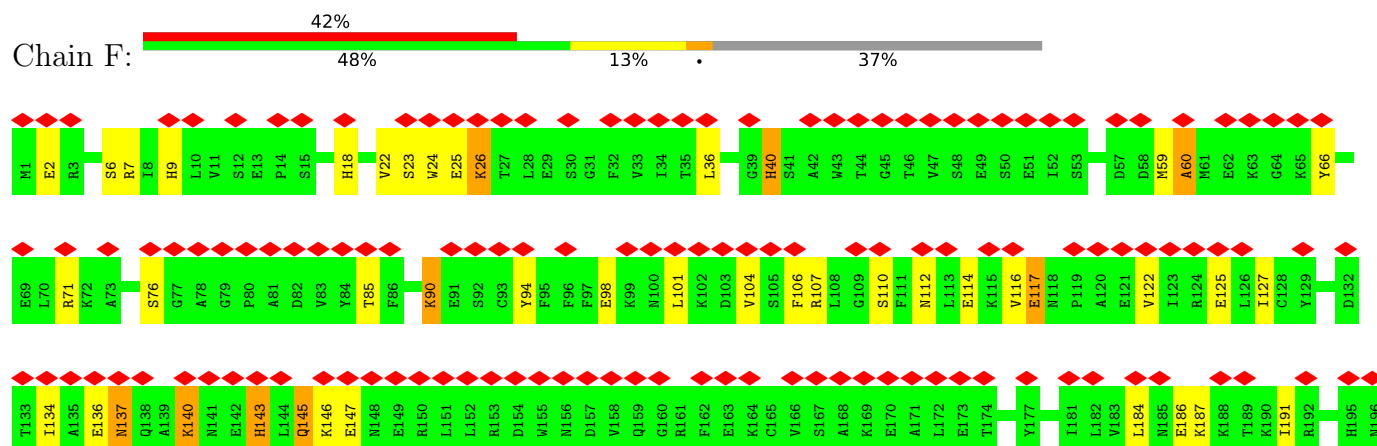
- Molecule 6: DNA (30-MER)

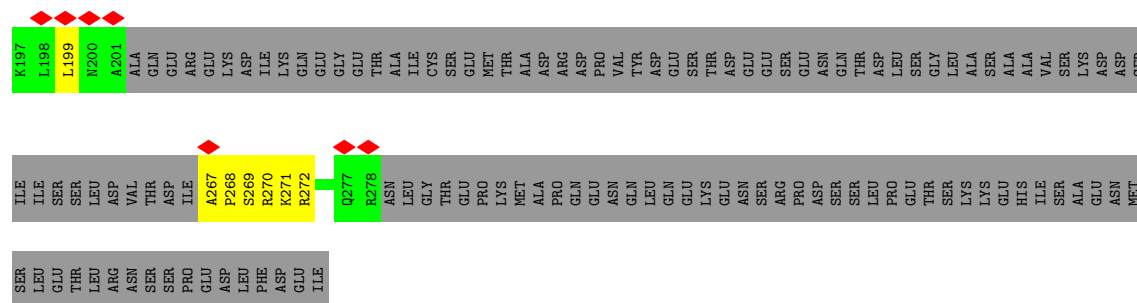


- Molecule 6: DNA (30-MER)

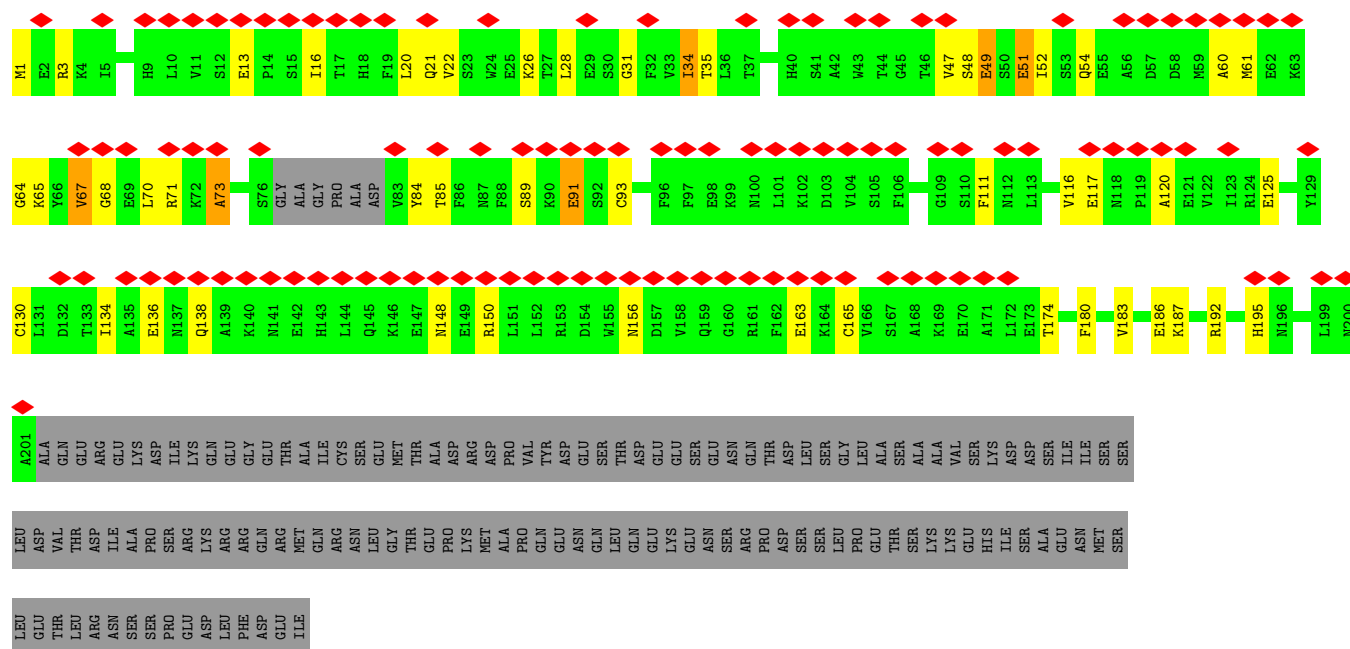


- Molecule 7: DNA repair protein XRCC4

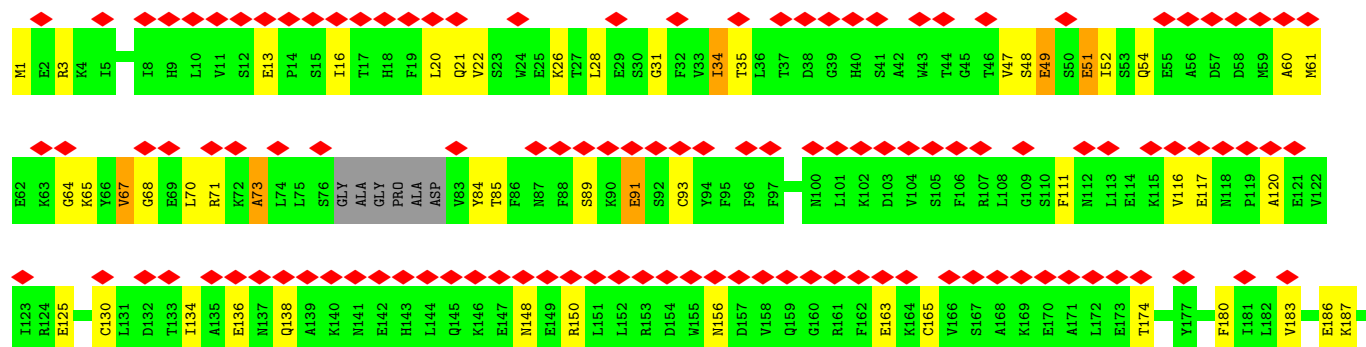
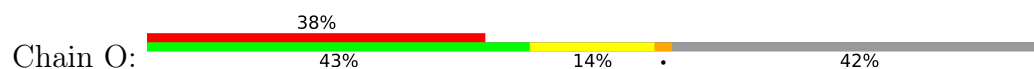


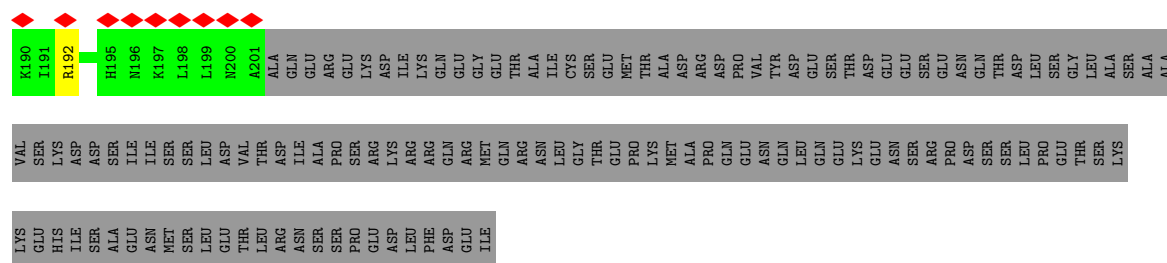


• Molecule 7: DNA repair protein XRCC4

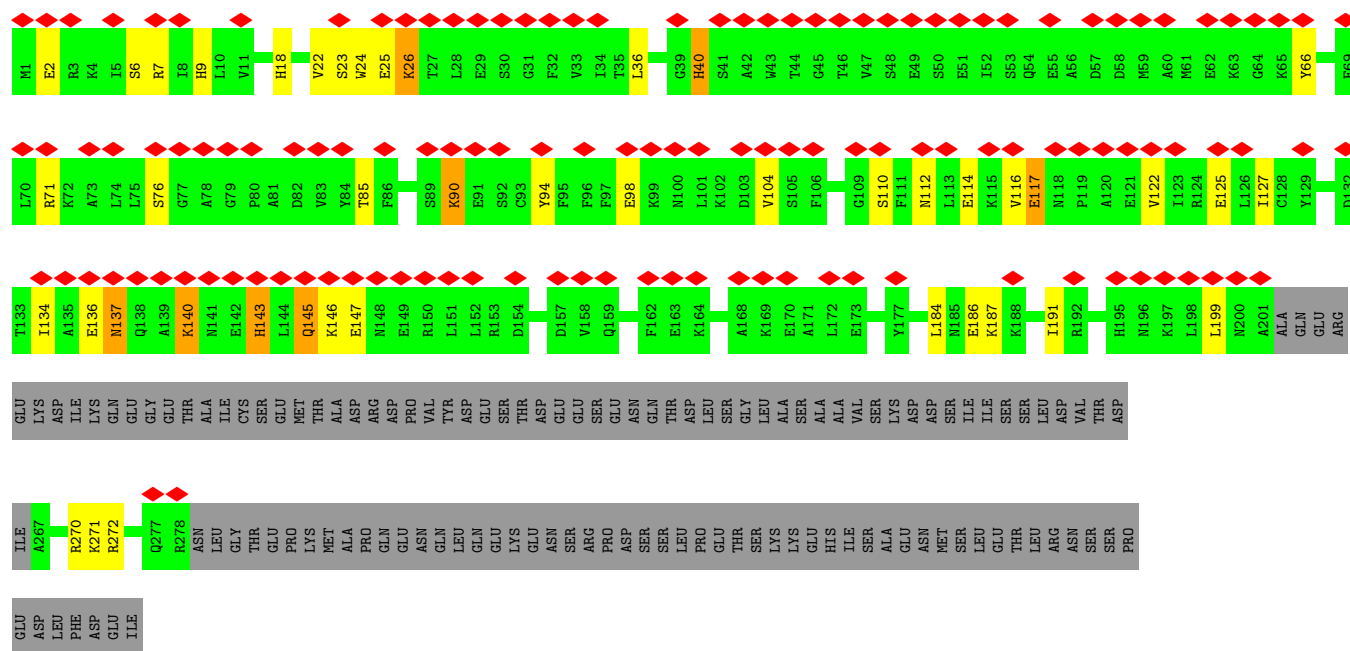
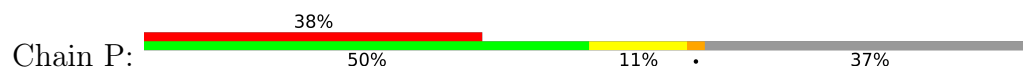


• Molecule 7: DNA repair protein XRCC4





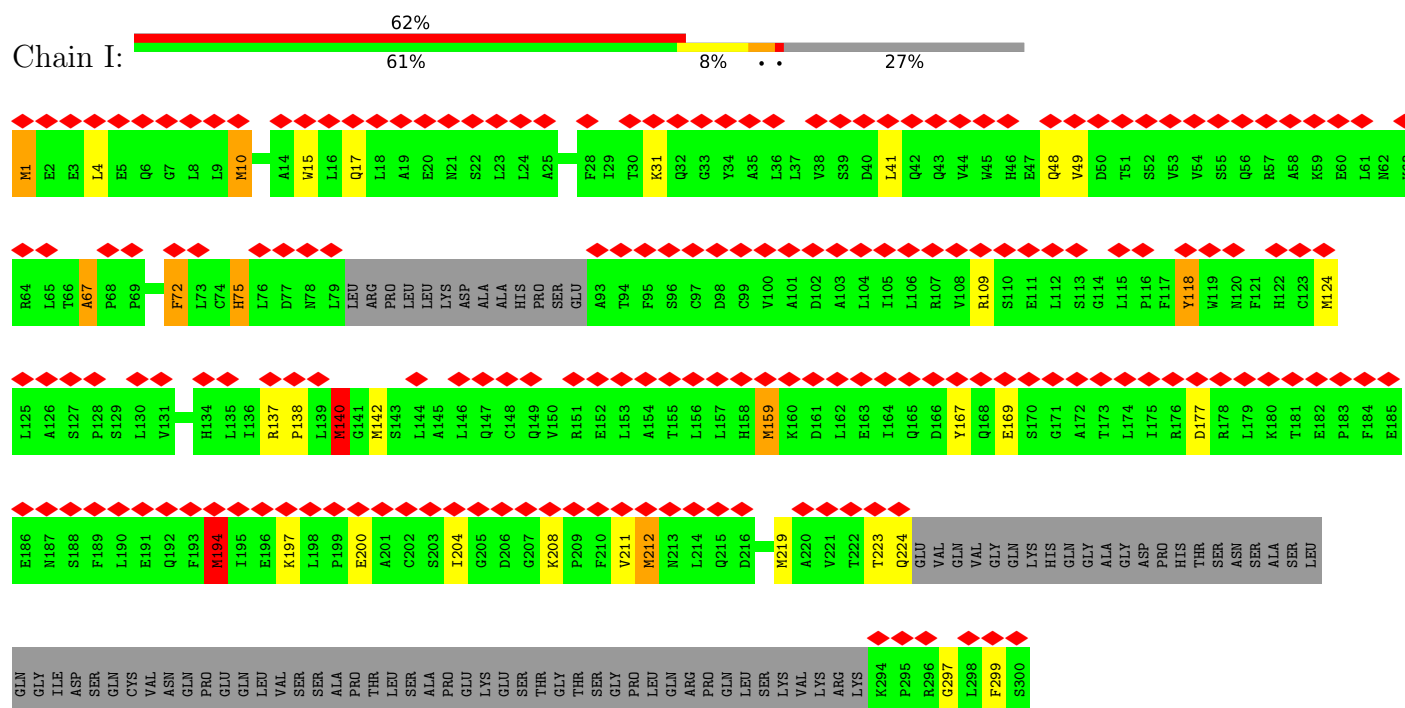
- Molecule 7: DNA repair protein XRCC4



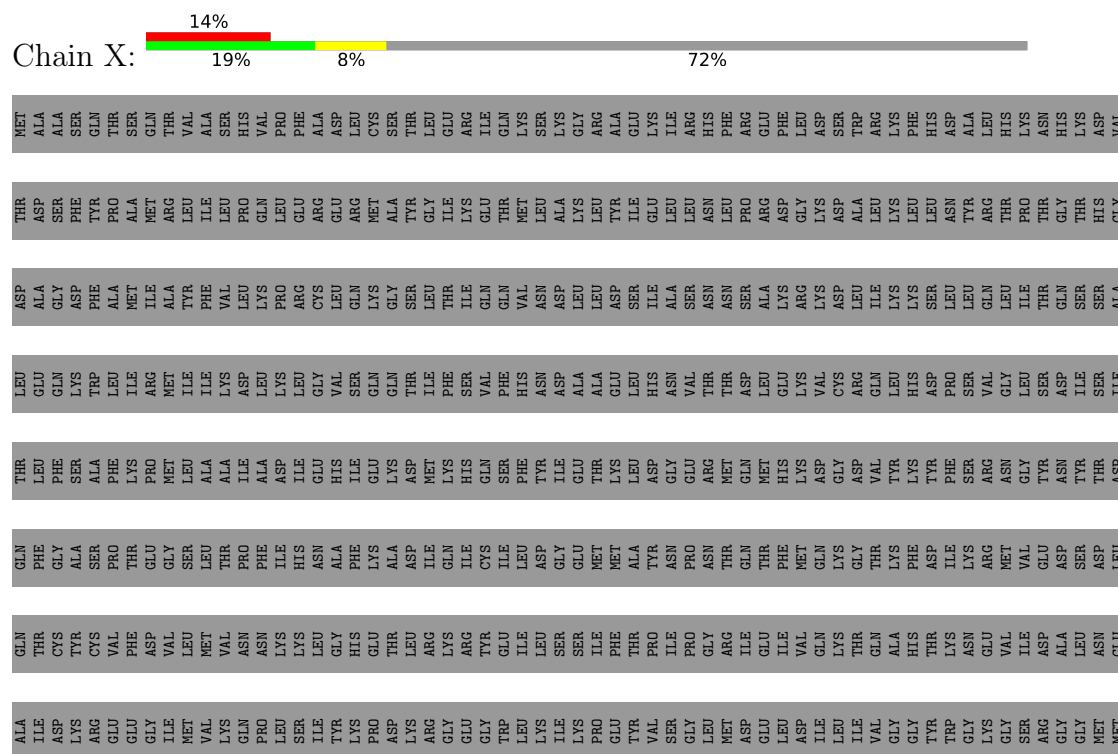
- Molecule 8: Non-homologous end-joining factor 1



- Molecule 8: Non-homologous end-joining factor 1



- Molecule 9: DNA ligase 4



GLY	THR	GLU	LYS	PRO	GLU	VAL	TYR	ILE	GLU	PRO	CYS	ASN	SER	ASN	VAL	ILE	VAL	GLN	ILE	LYS	ALA	GLU	PRO	ILE	VAL	PRO	SER	ASP	MET	TYR	LYS	THR	GLY	CYS	THR	LEU	ARG	PHE	PRO	ARG	ILE	GLU	LYS	ILE	ARG	ASP	LYS	GLU	THR	HIS	ASN	VAL	ASN	CYS	THR	LEU	ASP	LEU	GLU
E663	F664	C665	S668	G669	T670	ASP	SER	Q673	P674	K675	P676	D677	L678	E679	N680	R681	I682	A683	E684	F685	G686	S687	Y688	I689	V690	N691	N692	P693	G694	P695	D696	T697	Y698	G703	S704	E705	N706	I707	R708	I713	H718	D719	V720	V721	K722	P723	A724	N725	L726	L727	E728	C729	F730	K731					
V736	Q739	F740	R741	F742	T750	K751	E752	H753	F754	A755	R756	E757	Y758	D759	C760	Y761	D762	D763	S764	Y765	F766	I767	D768	T769	D770	L771	N772	Q773	L774	K775	E776	V777	F778	S779	G780	I781	K782	N783	S784	N785	E786	Q787	T788	F789	E790	E791	N792	A793	S794	L795	I796	A797	D798	L799	E800	Y801	R802		
Y803	S804	W805	D806	C807	S808	P809	L810	S811	N812	F813	R814	R815	H816	T817	W818	Y819	L820	D821	S822	Y823	A824	W825	I826	N827	D828	L829	S830	T831	K832	N833	E834	G835	T836	R837	L838	A839	T840	K841	A842	L843	E844	L845	R846	F847	H848	G849	A850	K851	V852	S853	S854	C855	L856	A857	E858	G859	V860	S861	H862
V863	I864	I865	H869	S870	R871	W872	A873	D874	F875	K876	A877	F878	R879	R880	T881	F882	K883	R884	K885	F886	K887	I888	E891	V894	T895	D896	S897	I898	D899	K900	C901	E902	L903	Q904	E905	E906	N907	L910	I911																				

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	329784	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	JEOL 3200FS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	76.5	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	30000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	1.874	Depositor
Minimum map value	-0.009	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.042	Depositor
Recommended contour level	0.02	Depositor
Map size ($\text{\AA}$)	319.0, 319.0, 319.0	wwPDB
Map dimensions	290, 290, 290	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.1, 1.1, 1.1	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ADP

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	0.59	0/4101	0.71	2/5523 (0.0%)
1	J	0.59	0/4101	0.71	2/5523 (0.0%)
2	B	0.44	0/4340	0.60	5/5853 (0.1%)
2	K	0.44	0/4340	0.61	5/5853 (0.1%)
3	C	0.62	2/30414 (0.0%)	0.74	22/41079 (0.1%)
3	L	0.62	2/30414 (0.0%)	0.74	22/41079 (0.1%)
5	D	0.95	0/710	0.79	1/1093 (0.1%)
5	M	0.95	0/710	0.79	1/1093 (0.1%)
6	E	0.98	0/690	0.73	0/1063
6	N	0.98	0/690	0.73	0/1063
7	F	0.77	0/1765	1.43	9/2367 (0.4%)
7	G	0.85	0/1622	1.55	15/2178 (0.7%)
7	O	0.84	0/1622	1.55	14/2178 (0.6%)
7	P	0.77	0/1765	1.42	9/2367 (0.4%)
8	H	0.94	17/1814 (0.9%)	1.39	10/2454 (0.4%)
8	I	0.95	16/1771 (0.9%)	1.33	2/2395 (0.1%)
9	X	0.75	1/2112 (0.0%)	1.27	14/2851 (0.5%)
9	Y	0.77	1/2112 (0.0%)	1.30	17/2851 (0.6%)
All	All	0.66	39/95093 (0.0%)	0.86	150/128863 (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
3	C	0	2
3	L	0	2
5	D	0	4
5	M	0	4
6	E	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
6	N	0	1
7	F	0	4
7	G	0	3
7	O	0	3
7	P	0	4
8	H	0	2
8	I	0	4
9	X	0	1
9	Y	0	1
All	All	0	36

All (39) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	342	MET	CA-C	-8.41	1.40	1.52
3	C	342	MET	CA-C	-8.34	1.40	1.52
8	H	1	MET	CG-SD	6.99	1.98	1.80
8	H	159	MET	SD-CE	6.63	1.96	1.79
8	I	140	MET	SD-CE	6.63	1.96	1.79
8	H	140	MET	CG-SD	6.61	1.97	1.80
8	H	1	MET	SD-CE	6.61	1.96	1.79
8	H	10	MET	CG-SD	6.59	1.97	1.80
8	H	212	MET	SD-CE	6.47	1.95	1.79
8	H	140	MET	SD-CE	6.42	1.95	1.79
8	I	1	MET	CG-SD	6.40	1.96	1.80
8	H	219	MET	SD-CE	6.39	1.95	1.79
8	H	124	MET	SD-CE	6.39	1.95	1.79
8	I	124	MET	CG-SD	6.39	1.96	1.80
8	I	124	MET	SD-CE	6.36	1.95	1.79
8	H	194	MET	SD-CE	6.34	1.95	1.79
8	I	212	MET	SD-CE	6.33	1.95	1.79
8	H	10	MET	SD-CE	6.27	1.95	1.79
8	I	10	MET	SD-CE	6.26	1.95	1.79
8	I	140	MET	CG-SD	6.26	1.96	1.80
8	I	194	MET	CG-SD	6.21	1.96	1.80
8	H	212	MET	CG-SD	6.17	1.96	1.80
8	I	159	MET	SD-CE	6.16	1.95	1.79
8	I	194	MET	SD-CE	6.04	1.94	1.79
8	I	212	MET	CG-SD	6.02	1.95	1.80
8	I	219	MET	SD-CE	6.00	1.94	1.79
8	H	124	MET	CG-SD	5.96	1.95	1.80
8	I	142	MET	SD-CE	5.91	1.94	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	I	159	MET	CG-SD	5.82	1.95	1.80
8	H	142	MET	SD-CE	5.80	1.94	1.79
8	I	1	MET	SD-CE	5.75	1.94	1.79
8	H	194	MET	CG-SD	5.73	1.95	1.80
8	H	159	MET	CG-SD	5.66	1.95	1.80
9	Y	762	GLY	N-CA	-5.43	1.38	1.45
9	X	762	GLY	N-CA	-5.40	1.38	1.45
8	I	142	MET	CG-SD	5.29	1.94	1.80
8	H	142	MET	CG-SD	5.08	1.93	1.80
3	C	492	SER	CA-C	-5.06	1.44	1.52
3	L	492	SER	CA-C	-5.04	1.44	1.52

All (150) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	H	18	LEU	CD1-CG-CD2	9.94	132.66	110.80
1	A	352	PRO	CA-N-CD	-9.60	98.57	112.00
1	J	352	PRO	CA-N-CD	-9.59	98.57	112.00
7	F	143	HIS	CB-CG-CD2	-8.96	119.55	131.20
7	P	143	HIS	CB-CG-CD2	-8.68	119.92	131.20
7	G	148	ASN	CB-CA-C	7.59	122.87	109.65
9	Y	906	GLU	N-CA-C	7.56	120.41	111.71
9	X	906	GLU	N-CA-C	7.56	120.40	111.71
7	O	148	ASN	CB-CA-C	7.55	122.79	109.65
7	G	21	GLN	OE1-CD-NE2	-7.26	115.34	122.60
7	O	21	GLN	OE1-CD-NE2	-7.23	115.37	122.60
3	C	3068	ALA	CA-C-N	-7.16	110.76	122.65
3	C	3068	ALA	C-N-CA	-7.16	110.76	122.65
3	L	3068	ALA	CA-C-N	-7.16	110.77	122.65
3	L	3068	ALA	C-N-CA	-7.16	110.77	122.65
3	C	1046	PRO	CA-N-CD	-7.14	102.01	112.00
3	L	1046	PRO	CA-N-CD	-7.08	102.09	112.00
7	O	67	VAL	CA-C-N	6.74	127.29	119.94
7	O	67	VAL	C-N-CA	6.74	127.29	119.94
7	G	67	VAL	CA-C-N	6.64	127.18	119.94
7	G	67	VAL	C-N-CA	6.64	127.18	119.94
9	Y	907	ASN	OD1-CG-ND2	-6.63	115.97	122.60
3	C	3485	LYS	CA-C-N	-6.61	110.56	122.46
3	C	3485	LYS	C-N-CA	-6.61	110.56	122.46
9	X	907	ASN	OD1-CG-ND2	-6.59	116.01	122.60
3	L	3485	LYS	CA-C-N	-6.59	110.60	122.46
3	L	3485	LYS	C-N-CA	-6.59	110.60	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	H	17	GLN	CA-C-N	6.54	132.18	121.58
8	H	17	GLN	C-N-CA	6.54	132.18	121.58
9	Y	905	GLU	CB-CA-C	6.36	121.85	109.33
9	X	905	GLU	CB-CA-C	6.25	121.64	109.33
3	L	3145	ILE	N-CA-C	-6.22	106.37	111.91
9	X	910	LEU	CA-C-N	6.22	132.90	121.70
9	X	910	LEU	C-N-CA	6.22	132.90	121.70
3	L	3269	ARG	CA-C-N	6.19	129.41	120.38
3	L	3269	ARG	C-N-CA	6.19	129.41	120.38
9	Y	910	LEU	CA-C-N	6.18	132.83	121.70
9	Y	910	LEU	C-N-CA	6.18	132.83	121.70
3	C	3269	ARG	CA-C-N	6.15	129.36	120.38
3	C	3269	ARG	C-N-CA	6.15	129.36	120.38
3	C	3145	ILE	N-CA-C	-6.13	106.46	111.91
7	O	73	ALA	CA-C-N	6.12	130.08	120.89
7	O	73	ALA	C-N-CA	6.12	130.08	120.89
9	Y	773	GLN	OE1-CD-NE2	-6.12	116.48	122.60
7	F	9	HIS	CB-CG-CD2	-6.12	123.25	131.20
9	X	773	GLN	OE1-CD-NE2	-6.08	116.53	122.60
7	P	9	HIS	CB-CG-CD2	-6.07	123.31	131.20
9	Y	707	ILE	CA-CB-CG1	6.06	120.71	110.40
9	Y	708	ARG	CA-C-N	6.05	128.18	120.56
9	Y	708	ARG	C-N-CA	6.05	128.18	120.56
7	G	73	ALA	CA-C-N	6.03	129.93	120.89
7	G	73	ALA	C-N-CA	6.03	129.93	120.89
2	B	44	ARG	CA-C-N	-6.00	109.88	121.58
2	B	44	ARG	C-N-CA	-6.00	109.88	121.58
3	C	3156	PRO	CA-N-CD	-5.98	103.62	112.00
7	G	156	ASN	OD1-CG-ND2	-5.98	116.62	122.60
2	K	44	ARG	CA-C-N	-5.98	109.92	121.58
2	K	44	ARG	C-N-CA	-5.98	109.92	121.58
3	L	3156	PRO	CA-N-CD	-5.96	103.66	112.00
7	O	156	ASN	OD1-CG-ND2	-5.93	116.67	122.60
9	Y	707	ILE	CB-CA-C	-5.91	101.61	111.29
3	L	1271	ILE	N-CA-C	-5.89	105.64	111.77
3	C	1271	ILE	N-CA-C	-5.88	105.65	111.77
8	H	17	GLN	O-C-N	5.86	130.26	123.17
3	C	3178	ILE	N-CA-C	-5.86	107.10	112.96
3	C	2269	ASP	CA-CB-CG	5.85	118.45	112.60
7	F	145	GLN	OE1-CD-NE2	-5.82	116.78	122.60
3	L	2269	ASP	CA-CB-CG	5.81	118.41	112.60
2	K	321	VAL	N-CA-CB	5.79	115.47	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	3178	ILE	N-CA-C	-5.79	107.17	112.96
9	X	831	THR	N-CA-C	-5.77	106.05	112.57
8	I	67	ALA	N-CA-CB	-5.75	105.06	111.10
7	P	145	GLN	OE1-CD-NE2	-5.74	116.86	122.60
9	Y	831	THR	N-CA-C	-5.74	106.09	112.57
9	Y	835	GLY	CA-C-N	5.73	128.85	120.71
9	Y	835	GLY	C-N-CA	5.73	128.85	120.71
2	B	321	VAL	N-CA-CB	5.73	115.41	110.08
2	K	327	ASP	CA-CB-CG	5.72	118.32	112.60
2	B	327	ASP	CA-CB-CG	5.71	118.31	112.60
9	Y	830	SER	N-CA-C	5.71	120.06	109.56
9	X	830	SER	N-CA-C	5.68	120.02	109.56
9	X	758	TYR	CA-CB-CG	5.66	124.09	113.90
9	Y	758	TYR	CA-CB-CG	5.66	124.08	113.90
9	X	835	GLY	CA-C-N	5.66	128.74	120.71
9	X	835	GLY	C-N-CA	5.66	128.74	120.71
8	I	75	HIS	CB-CG-CD2	-5.62	123.90	131.20
7	P	143	HIS	CA-CB-CG	-5.57	108.23	113.80
8	H	46	HIS	CB-CG-CD2	-5.50	124.05	131.20
3	C	3270	ASP	N-CA-C	5.48	118.77	111.75
3	L	3270	ASP	N-CA-C	5.48	118.77	111.75
7	G	183	VAL	CA-C-N	5.42	127.48	120.44
7	G	183	VAL	C-N-CA	5.42	127.48	120.44
7	F	143	HIS	CA-CB-CG	-5.42	108.38	113.80
7	O	183	VAL	CA-C-N	5.36	127.41	120.44
7	O	183	VAL	C-N-CA	5.36	127.41	120.44
8	H	62	ASN	CA-CB-CG	5.35	117.95	112.60
3	L	3353	GLU	N-CA-C	5.29	117.73	111.33
3	C	277	LEU	CA-C-N	-5.23	113.01	122.54
3	C	277	LEU	C-N-CA	-5.23	113.01	122.54
3	C	3353	GLU	N-CA-C	5.22	117.65	111.33
3	L	277	LEU	CA-C-N	-5.22	113.04	122.54
3	L	277	LEU	C-N-CA	-5.22	113.04	122.54
7	P	25	GLU	CA-C-N	5.22	131.51	121.54
7	P	25	GLU	C-N-CA	5.22	131.51	121.54
8	H	133	GLN	OE1-CD-NE2	-5.20	117.40	122.60
7	O	61	MET	N-CA-C	5.20	118.17	109.96
8	H	43	GLN	OE1-CD-NE2	-5.19	117.41	122.60
7	F	25	GLU	CA-C-N	5.19	131.45	121.54
7	F	25	GLU	C-N-CA	5.19	131.45	121.54
7	G	195	HIS	CB-CG-CD2	-5.19	124.45	131.20
7	F	90	LYS	CA-C-N	5.18	127.49	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	F	90	LYS	C-N-CA	5.18	127.49	120.44
7	P	90	LYS	CA-C-N	5.17	127.47	120.44
7	P	90	LYS	C-N-CA	5.17	127.47	120.44
7	O	13	GLU	CA-C-N	5.16	124.77	119.56
7	O	13	GLU	C-N-CA	5.16	124.77	119.56
7	G	61	MET	N-CA-C	5.16	118.11	109.96
3	L	32	HIS	CA-C-N	-5.14	111.55	121.58
3	L	32	HIS	C-N-CA	-5.14	111.55	121.58
7	P	137	ASN	CA-CB-CG	-5.14	107.46	112.60
3	C	3352	GLU	CA-C-N	5.14	127.42	120.38
3	C	3352	GLU	C-N-CA	5.14	127.42	120.38
7	O	180	PHE	CA-C-N	5.14	127.23	120.60
7	O	180	PHE	C-N-CA	5.14	127.23	120.60
7	G	180	PHE	CA-C-N	5.13	127.22	120.60
7	G	180	PHE	C-N-CA	5.13	127.22	120.60
3	C	32	HIS	CA-C-N	-5.12	111.59	121.58
3	C	32	HIS	C-N-CA	-5.12	111.59	121.58
1	J	290	ARG	CB-CA-C	-5.09	102.83	110.92
5	M	12	DT	O3'-P-O5'	-5.08	96.37	104.00
1	A	290	ARG	CB-CA-C	-5.08	102.84	110.92
5	D	12	DT	O3'-P-O5'	-5.08	96.38	104.00
7	F	137	ASN	CA-CB-CG	-5.08	107.52	112.60
7	G	13	GLU	CA-C-N	5.07	124.69	119.56
7	G	13	GLU	C-N-CA	5.07	124.69	119.56
3	C	2550	ILE	N-CA-C	-5.06	106.98	112.80
9	X	739	GLN	CA-C-N	5.06	125.09	119.32
9	X	739	GLN	C-N-CA	5.06	125.09	119.32
3	L	2550	ILE	N-CA-C	-5.05	106.99	112.80
3	L	3352	GLU	CA-C-N	5.04	127.29	120.38
3	L	3352	GLU	C-N-CA	5.04	127.29	120.38
3	L	3446	VAL	N-CA-C	-5.04	105.58	110.42
9	X	816	HIS	CB-CG-CD2	-5.04	124.65	131.20
2	B	440	ASN	N-CA-C	-5.03	107.64	112.97
8	H	18	LEU	N-CA-C	5.02	116.22	107.93
3	C	3446	VAL	N-CA-C	-5.01	105.61	110.42
2	K	440	ASN	N-CA-C	-5.01	107.66	112.97
9	Y	739	GLN	CA-C-N	5.00	125.03	119.32
9	Y	739	GLN	C-N-CA	5.00	125.03	119.32
8	H	158	HIS	CB-CG-CD2	-5.00	124.70	131.20

There are no chirality outliers.

All (36) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	C	3962	ARG	Sidechain
3	C	4090	ARG	Sidechain
5	D	13	DG	Sidechain
5	D	16	DG	Sidechain
5	D	17	DT	Sidechain
5	D	18	DC	Sidechain
6	E	17	DT	Sidechain
7	F	143	HIS	Sidechain
7	F	66	TYR	Sidechain
7	F	7	ARG	Sidechain
7	F	94	TYR	Sidechain
7	G	111	PHE	Sidechain
7	G	192	ARG	Sidechain
7	G	3	ARG	Sidechain
8	H	17	GLN	Mainchain
8	H	81	ARG	Sidechain
8	I	118	TYR	Sidechain
8	I	167	TYR	Sidechain
8	I	72	PHE	Sidechain
8	I	75	HIS	Sidechain
3	L	3962	ARG	Sidechain
3	L	4090	ARG	Sidechain
5	M	13	DG	Sidechain
5	M	16	DG	Sidechain
5	M	17	DT	Sidechain
5	M	18	DC	Sidechain
6	N	17	DT	Sidechain
7	O	111	PHE	Sidechain
7	O	192	ARG	Sidechain
7	O	3	ARG	Sidechain
7	P	143	HIS	Sidechain
7	P	66	TYR	Sidechain
7	P	7	ARG	Sidechain
7	P	94	TYR	Sidechain
9	X	766	PHE	Sidechain
9	Y	766	PHE	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	4021	0	4100	291	0
1	J	4021	0	4100	289	0
2	B	4259	0	4301	269	0
2	K	4259	0	4301	265	0
3	C	29811	0	30286	1694	0
3	L	29811	0	30286	1674	0
4	Q	101	0	23	2	0
4	R	101	0	23	2	0
5	D	634	0	352	65	0
5	M	634	0	352	65	0
6	E	616	0	339	63	0
6	N	616	0	339	60	0
7	F	1736	0	1739	45	0
7	G	1595	0	1592	40	0
7	O	1595	0	1592	38	0
7	P	1736	0	1739	34	0
8	H	1779	0	1797	34	0
8	I	1737	0	1744	16	0
9	X	2064	0	2012	42	0
9	Y	2064	0	2012	41	0
10	C	27	0	12	5	0
10	L	27	0	12	5	0
All	All	93244	0	93053	4750	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 26.

All (4750) 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)
7:O:130:CYS:CA	7:P:134:ILE:HD11	1.44	1.46
7:F:134:ILE:HD11	7:G:130:CYS:CA	1.44	1.45
7:F:134:ILE:CD1	7:G:130:CYS:HA	1.60	1.31
7:O:130:CYS:HA	7:P:134:ILE:CD1	1.60	1.31
7:F:134:ILE:HG12	7:G:134:ILE:HG13	1.22	1.16
7:O:134:ILE:HG13	7:P:134:ILE:HG12	1.21	1.14
7:O:130:CYS:CB	7:P:134:ILE:HD11	1.79	1.12
7:F:134:ILE:HD11	7:G:130:CYS:CB	1.79	1.11
3:C:949:PRO:HB3	3:L:2579:HIS:CG	1.86	1.09
3:C:2579:HIS:CG	3:L:949:PRO:HB3	1.89	1.08
7:G:134:ILE:HG23	7:G:138:GLN:HE22	1.22	1.05
8:H:299:PHE:CE1	2:K:234:LEU:HD21	1.93	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:134:ILE:CG2	7:O:138:GLN:HE22	1.73	1.01
7:O:134:ILE:HG23	7:O:138:GLN:HE22	1.21	1.01
7:G:134:ILE:CG2	7:G:138:GLN:HE22	1.74	1.00
7:O:134:ILE:HG13	7:P:134:ILE:CG1	1.92	0.99
7:F:134:ILE:CG1	7:G:134:ILE:HG13	1.92	0.99
3:L:938:VAL:HA	3:L:941:MET:HE2	1.46	0.97
7:F:134:ILE:HD11	7:G:130:CYS:HA	0.98	0.96
3:C:938:VAL:HA	3:C:941:MET:HE2	1.46	0.95
7:O:130:CYS:HA	7:P:134:ILE:HD11	0.98	0.95
3:C:3575:LEU:O	3:C:3579:SER:HB3	1.67	0.95
3:C:949:PRO:HB3	3:L:2579:HIS:CD2	2.02	0.94
3:L:3575:LEU:O	3:L:3579:SER:HB3	1.67	0.93
3:C:2602:LEU:HB2	3:C:2605:MET:HE1	1.51	0.93
2:K:44:ARG:NH1	2:K:234:LEU:O	2.02	0.93
2:B:44:ARG:NH1	2:B:234:LEU:O	2.02	0.93
3:C:2579:HIS:CD2	3:L:949:PRO:HB3	2.04	0.92
3:C:1970:LYS:HD2	3:C:1971:PRO:HD2	1.51	0.92
3:L:2602:LEU:HB2	3:L:2605:MET:HE1	1.51	0.90
3:L:1102:GLU:HG3	3:L:1154:PRO:HA	1.53	0.90
3:L:2122:LEU:HD23	3:L:2126:MET:HE1	1.54	0.90
3:C:2122:LEU:HD23	3:C:2126:MET:HE1	1.54	0.90
3:L:1979:GLU:OE2	3:L:2091:HIS:NE2	2.04	0.90
3:C:1979:GLU:OE2	3:C:2091:HIS:NE2	2.04	0.89
3:L:1970:LYS:HD2	3:L:1971:PRO:HD2	1.51	0.89
3:C:1407:LYS:HB2	3:C:1463:LEU:HD21	1.53	0.89
7:F:134:ILE:CD1	7:G:130:CYS:CA	2.33	0.88
8:I:15:TRP:HB2	8:I:211:VAL:HG21	1.55	0.88
3:C:1102:GLU:HG3	3:C:1154:PRO:HA	1.53	0.88
3:L:1407:LYS:HB2	3:L:1463:LEU:HD21	1.53	0.88
3:C:3684:SER:HB3	3:C:3687:MET:HE2	1.55	0.87
3:L:3684:SER:HB3	3:L:3687:MET:HE2	1.55	0.87
3:C:3929:MET:HB2	3:C:3940:ILE:HD11	1.56	0.87
3:L:3179:TRP:CD1	3:L:3242:MET:HG3	2.10	0.87
3:C:3179:TRP:CD1	3:C:3242:MET:HG3	2.10	0.87
3:L:1264:LEU:HD22	3:L:1341:ILE:HG22	1.57	0.86
1:A:366:LEU:HB2	1:A:434:LEU:HD12	1.58	0.86
3:C:1974:ASN:OD1	3:C:1975:LEU:N	2.08	0.86
3:C:1264:LEU:HD22	3:C:1341:ILE:HG22	1.57	0.86
3:C:90:CYS:SG	3:C:133:LYS:NZ	2.49	0.85
1:J:366:LEU:HB2	1:J:434:LEU:HD12	1.58	0.85
3:L:3835:PRO:HG3	3:L:3841:ASP:H	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3929:MET:HB2	3:L:3940:ILE:HD11	1.56	0.85
3:L:4088:ASN:ND2	3:L:4113:ASP:OD1	2.09	0.85
7:O:130:CYS:CB	7:P:134:ILE:CD1	2.55	0.85
3:L:1622:ILE:HD11	3:L:1652:ILE:HD13	1.59	0.85
3:L:1974:ASN:OD1	3:L:1975:LEU:N	2.08	0.85
3:C:3835:PRO:HG3	3:C:3841:ASP:H	1.40	0.84
3:C:405:ASP:O	3:C:409:GLN:NE2	2.11	0.84
3:L:2855:VAL:O	3:L:2859:GLN:NE2	2.10	0.84
3:L:90:CYS:SG	3:L:133:LYS:NZ	2.50	0.84
3:L:128:LEU:HD11	3:L:156:PHE:HE2	1.42	0.84
3:L:3050:LYS:HA	3:L:3053:LEU:HG	1.59	0.84
3:C:2855:VAL:O	3:C:2859:GLN:NE2	2.10	0.84
3:C:4088:ASN:ND2	3:C:4113:ASP:OD1	2.09	0.84
3:C:3050:LYS:HA	3:C:3053:LEU:HG	1.59	0.83
3:L:3617:LEU:HB3	3:L:3633:ILE:HD13	1.60	0.83
3:C:1519:PHE:CD2	3:C:1570:GLU:HG3	2.14	0.83
3:C:1241:LEU:HB2	3:C:1292:LYS:HZ1	1.43	0.83
1:J:340:PHE:HE1	2:K:485:PRO:HB2	1.44	0.82
3:L:789:TYR:HA	3:L:792:ILE:HG22	1.62	0.82
3:C:1857:LYS:HE3	3:C:1866:GLN:HE21	1.43	0.82
3:L:405:ASP:O	3:L:409:GLN:NE2	2.11	0.82
3:L:1857:LYS:HE3	3:L:1866:GLN:HE21	1.44	0.82
7:F:134:ILE:CD1	7:G:130:CYS:CB	2.55	0.82
3:L:3154:GLN:OE1	3:L:3158:LYS:NZ	2.13	0.82
3:C:1820:VAL:HA	3:C:1824:LEU:HB3	1.61	0.82
3:C:3575:LEU:O	3:C:3579:SER:CB	2.28	0.82
3:L:3575:LEU:O	3:L:3579:SER:CB	2.28	0.82
3:C:1622:ILE:HD11	3:C:1652:ILE:HD13	1.59	0.82
3:C:3617:LEU:HB3	3:C:3633:ILE:HD13	1.60	0.82
3:C:128:LEU:HD11	3:C:156:PHE:HE2	1.42	0.81
8:I:211:VAL:HG23	8:I:212:MET:SD	2.20	0.81
3:L:1093:GLU:O	3:L:1096:VAL:N	2.13	0.81
3:C:3154:GLN:OE1	3:C:3158:LYS:NZ	2.13	0.81
3:C:789:TYR:HA	3:C:792:ILE:HG22	1.62	0.81
3:L:1362:ASP:O	3:L:1365:ASN:ND2	2.13	0.81
1:J:262:LYS:HD2	1:J:346:MET:HE2	1.63	0.81
1:A:262:LYS:HD2	1:A:346:MET:HE2	1.63	0.81
3:C:1970:LYS:HG3	3:C:1972:GLU:H	1.46	0.81
3:L:1241:LEU:HB2	3:L:1292:LYS:HZ1	1.44	0.81
3:L:1519:PHE:CD2	3:L:1570:GLU:HG3	2.14	0.81
3:L:1970:LYS:HG3	3:L:1972:GLU:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:234:LEU:HD21	8:I:299:PHE:CE1	2.16	0.80
3:L:1820:VAL:HA	3:L:1824:LEU:HB3	1.61	0.80
3:L:2123:PRO:HB3	3:L:2164:TRP:HZ2	1.46	0.80
9:X:706:ASN:OD1	9:X:709:VAL:N	2.14	0.80
3:C:1362:ASP:O	3:C:1365:ASN:ND2	2.13	0.80
3:C:2311:ARG:NH2	6:E:7:DT:OP2	2.14	0.80
3:C:2123:PRO:HB3	3:C:2164:TRP:HZ2	1.46	0.80
3:L:2280:VAL:HA	3:L:2283:ASN:HD21	1.46	0.80
3:C:1093:GLU:O	3:C:1096:VAL:N	2.13	0.80
7:F:134:ILE:HD11	7:G:130:CYS:HB3	1.62	0.80
3:C:1838:GLU:OE1	3:C:1838:GLU:N	2.15	0.79
3:L:485:GLN:HA	3:L:488:ILE:HD12	1.63	0.79
3:C:485:GLN:HA	3:C:488:ILE:HD12	1.63	0.79
3:L:1166:LEU:HD22	3:L:1198:LEU:HD12	1.64	0.79
7:F:134:ILE:HD13	7:G:130:CYS:HA	1.64	0.79
3:L:1990:PHE:HB3	3:L:1991:PRO:HD2	1.64	0.79
3:L:3469:LEU:HA	3:L:3472:ILE:HD12	1.64	0.79
3:C:2280:VAL:HA	3:C:2283:ASN:HD21	1.46	0.79
1:A:340:PHE:HE1	2:B:485:PRO:HB2	1.44	0.79
3:C:2268:LYS:NZ	3:C:2314:GLU:OE2	2.15	0.79
6:N:5:DA:N7	6:N:6:DA:N6	2.31	0.79
2:B:70:GLY:O	2:B:75:GLN:NE2	2.16	0.79
6:E:5:DA:N7	6:E:6:DA:N6	2.31	0.79
2:K:70:GLY:O	2:K:75:GLN:NE2	2.16	0.79
3:L:2977:ASN:CG	7:P:272:ARG:HH22	1.90	0.79
3:C:3806:LEU:HD23	10:C:4201:ADP:HN62	1.48	0.79
7:O:130:CYS:HB3	7:P:134:ILE:HD11	1.62	0.79
3:L:3855:TYR:HA	3:L:3858:MET:HE3	1.65	0.79
7:O:130:CYS:HA	7:P:134:ILE:HD13	1.64	0.78
3:C:1166:LEU:HD22	3:C:1198:LEU:HD12	1.64	0.78
3:C:3469:LEU:HA	3:C:3472:ILE:HD12	1.64	0.78
3:L:3806:LEU:HD23	10:L:4201:ADP:HN62	1.48	0.78
3:C:2977:ASN:CG	7:F:272:ARG:HH22	1.92	0.78
3:L:395:MET:HE1	3:L:410:MET:HE3	1.66	0.78
3:L:3912:CYS:HB3	3:L:3961:PHE:CD1	2.19	0.78
3:C:1990:PHE:HB3	3:C:1991:PRO:HD2	1.64	0.78
1:J:455:THR:OG1	1:J:458:GLN:OE1	2.02	0.78
3:L:2268:LYS:NZ	3:L:2314:GLU:OE2	2.15	0.78
1:A:363:ARG:HB2	1:A:364:PRO:HD2	1.65	0.78
5:M:22:DA:N1	6:N:8:DC:N4	2.32	0.78
3:C:395:MET:HE1	3:C:410:MET:HE3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2271:SER:HA	3:L:2274:ILE:HD12	1.66	0.77
1:A:174:ASN:HB2	1:A:215:LEU:HD21	1.66	0.77
1:J:174:ASN:HB2	1:J:215:LEU:HD21	1.66	0.77
7:O:134:ILE:CG1	7:P:134:ILE:CG1	2.63	0.77
3:C:2271:SER:HA	3:C:2274:ILE:HD12	1.66	0.77
1:A:455:THR:OG1	1:A:458:GLN:OE1	2.02	0.77
2:B:44:ARG:HG3	2:B:238:LYS:HB2	1.66	0.77
2:K:407:VAL:H	2:K:424:LEU:HD23	1.49	0.77
3:C:3855:TYR:HA	3:C:3858:MET:HE3	1.66	0.77
3:L:95:LYS:HG3	3:L:96:MET:SD	2.24	0.77
3:L:722:LYS:HG3	3:L:723:ASP:H	1.49	0.77
7:O:134:ILE:HD11	7:P:134:ILE:HG13	1.67	0.77
2:B:407:VAL:H	2:B:424:LEU:HD23	1.49	0.77
7:F:134:ILE:HG12	7:G:134:ILE:CG1	2.11	0.77
3:L:1889:VAL:O	3:L:1909:ASN:ND2	2.18	0.77
3:C:95:LYS:HG3	3:C:96:MET:SD	2.24	0.77
1:J:363:ARG:HB2	1:J:364:PRO:HD2	1.65	0.77
2:B:411:HIS:O	2:B:418:CYS:N	2.18	0.76
3:C:3912:CYS:HB3	3:C:3961:PHE:CD1	2.19	0.76
3:L:3579:SER:HA	3:L:3736:LYS:HZ1	1.48	0.76
1:A:85:VAL:HG13	1:A:105:LEU:HB3	1.66	0.76
3:L:2311:ARG:NH2	6:N:7:DT:OP2	2.14	0.76
3:L:3164:TRP:CE3	3:L:3186:ARG:HD3	2.21	0.76
3:C:1331:ASN:HA	3:C:1334:LYS:HZ3	1.50	0.76
3:C:722:LYS:HG3	3:C:723:ASP:H	1.50	0.76
3:C:1889:VAL:O	3:C:1909:ASN:ND2	2.18	0.76
3:L:65:LEU:HD23	3:L:85:ILE:HG13	1.67	0.76
1:A:261:LEU:HD23	1:A:269:ILE:HD11	1.68	0.75
7:F:134:ILE:CG1	7:G:134:ILE:CG1	2.63	0.75
2:K:44:ARG:HG3	2:K:238:LYS:HB2	1.66	0.75
3:L:2894:GLU:HG3	3:L:3973:PRO:HG3	1.68	0.75
3:C:1985:LYS:HG2	3:C:1987:ARG:HH12	1.51	0.75
7:F:134:ILE:HG13	7:G:134:ILE:HD11	1.68	0.75
1:J:85:VAL:HG13	1:J:105:LEU:HB3	1.66	0.75
2:K:547:GLN:HG3	2:K:548:VAL:H	1.50	0.75
3:L:3724:GLU:HG3	3:L:3725:ARG:HG3	1.67	0.75
3:C:1538:LEU:HD11	3:C:1555:HIS:HD2	1.52	0.75
3:C:3164:TRP:CE3	3:C:3186:ARG:HD3	2.21	0.75
3:L:1838:GLU:OE1	3:L:1838:GLU:N	2.15	0.75
2:K:353:ARG:HA	2:K:356:PHE:HE1	1.52	0.75
3:C:3579:SER:HA	3:C:3736:LYS:HZ1	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3031:TRP:HB3	3:L:3074:GLN:HE22	1.50	0.75
3:C:3724:GLU:HG3	3:C:3725:ARG:HG3	1.67	0.75
5:D:22:DA:N1	6:E:8:DC:N4	2.32	0.74
3:C:3031:TRP:HB3	3:C:3074:GLN:HE22	1.50	0.74
3:L:2810:SER:HA	3:L:2861:ILE:HD11	1.69	0.74
2:B:547:GLN:HG3	2:B:548:VAL:H	1.50	0.74
3:C:65:LEU:HD23	3:C:85:ILE:HG13	1.67	0.74
3:L:939:MET:HE1	3:L:2782:ASP:H	1.52	0.74
3:C:2894:GLU:HG3	3:C:3973:PRO:HG3	1.68	0.74
1:J:35:ARG:HD3	1:J:80:ARG:HG2	1.69	0.74
1:J:261:LEU:HD23	1:J:269:ILE:HD11	1.68	0.74
3:L:1237:ALA:O	3:L:1292:LYS:NZ	2.19	0.74
3:C:3923:ARG:HB2	3:C:4124:TRP:HE1	1.53	0.74
2:B:353:ARG:HA	2:B:356:PHE:HE1	1.52	0.74
1:A:142:SER:HA	1:A:182:LYS:HE3	1.70	0.73
2:B:76:ASN:ND2	2:B:103:GLN:OE1	2.22	0.73
3:C:2942:ILE:HG13	3:C:3974:MET:HE1	1.70	0.73
2:B:265:LYS:HZ2	5:D:8:DA:H5"	1.52	0.73
3:C:2810:SER:HA	3:C:2861:ILE:HD11	1.69	0.73
3:C:3121:LEU:HD21	3:C:3895:GLU:HB2	1.69	0.73
1:J:95:ASN:HD21	1:J:99:PHE:H	1.35	0.73
2:K:56:LEU:HD11	2:K:90:LEU:HD21	1.70	0.73
3:L:1985:LYS:HG2	3:L:1987:ARG:HH12	1.51	0.73
3:C:2928:LYS:HD2	3:C:2996:LEU:HD13	1.71	0.73
1:J:176:HIS:CD2	1:J:182:LYS:HD3	2.24	0.73
3:L:907:LEU:HD22	3:L:937:MET:HE2	1.71	0.73
3:L:2928:LYS:HD2	3:L:2996:LEU:HD13	1.71	0.73
3:C:425:ASP:OD1	3:C:426:THR:N	2.21	0.73
3:C:1980:ASN:HD21	3:C:1982:ILE:HG22	1.54	0.73
3:C:3958:LEU:HD11	3:C:4064:LEU:HD11	1.70	0.73
2:K:411:HIS:O	2:K:418:CYS:N	2.18	0.73
3:C:939:MET:HE1	3:C:2782:ASP:H	1.52	0.73
3:L:1538:LEU:HD11	3:L:1555:HIS:HD2	1.52	0.73
1:A:95:ASN:HD21	1:A:99:PHE:H	1.35	0.73
3:C:1146:ASN:OD1	3:C:1165:LEU:N	2.17	0.73
3:C:3467:ARG:O	3:C:3467:ARG:NH2	2.22	0.73
3:L:425:ASP:OD1	3:L:426:THR:N	2.21	0.73
3:C:757:LYS:NZ	3:C:795:CYS:SG	2.62	0.73
3:L:1980:ASN:HD21	3:L:1982:ILE:HG22	1.54	0.73
3:L:2127:LYS:HE2	3:L:2164:TRP:CD2	2.24	0.73
3:L:3121:LEU:HD21	3:L:3895:GLU:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3467:ARG:O	3:L:3467:ARG:NH2	2.21	0.73
3:C:2127:LYS:HE2	3:C:2164:TRP:CD2	2.24	0.73
3:L:1331:ASN:HA	3:L:1334:LYS:HZ3	1.52	0.73
3:L:3958:LEU:HD11	3:L:4064:LEU:HD11	1.70	0.73
1:A:35:ARG:HD3	1:A:80:ARG:HG2	1.69	0.72
3:C:439:VAL:HG13	3:C:461:ILE:HD11	1.70	0.72
2:K:76:ASN:ND2	2:K:103:GLN:OE1	2.21	0.72
3:L:538:ASP:OD1	3:L:561:ASN:ND2	2.22	0.72
3:L:2127:LYS:HE2	3:L:2164:TRP:CE2	2.24	0.72
3:L:3363:SER:O	3:L:3380:ARG:NH1	2.22	0.72
3:C:714:VAL:HG11	3:C:732:PHE:HE2	1.55	0.72
3:C:907:LEU:HD22	3:C:937:MET:HE2	1.71	0.72
1:J:142:SER:HA	1:J:182:LYS:HE3	1.70	0.72
2:B:56:LEU:HD11	2:B:90:LEU:HD21	1.70	0.72
2:B:262:ALA:N	2:B:365:PHE:O	2.22	0.72
3:L:757:LYS:NZ	3:L:795:CYS:SG	2.62	0.72
3:C:2123:PRO:HB3	3:C:2164:TRP:CZ2	2.24	0.72
3:C:3778:ASP:OD1	3:C:3780:ALA:N	2.22	0.72
3:C:3977:THR:HA	3:C:3981:TYR:HB3	1.72	0.72
3:L:439:VAL:HG13	3:L:461:ILE:HD11	1.70	0.72
3:L:3923:ARG:HB2	3:L:4124:TRP:HE1	1.53	0.72
3:L:3977:THR:HA	3:L:3981:TYR:HB3	1.72	0.72
3:C:1277:GLY:O	3:C:1281:VAL:N	2.21	0.72
3:C:2127:LYS:HE2	3:C:2164:TRP:CE2	2.24	0.72
2:B:61:THR:O	2:B:76:ASN:ND2	2.22	0.72
3:C:3363:SER:O	3:C:3380:ARG:NH1	2.22	0.72
3:L:66:LEU:HD11	3:L:89:LEU:HD11	1.71	0.72
3:L:1129:ASP:O	3:L:1133:HIS:ND1	2.22	0.72
3:C:538:ASP:OD1	3:C:561:ASN:ND2	2.22	0.72
8:H:296:ARG:HD2	2:K:131:HIS:NE2	2.04	0.72
8:H:299:PHE:CE1	2:K:234:LEU:CD2	2.72	0.72
8:H:299:PHE:HE1	2:K:234:LEU:HD21	1.50	0.72
1:J:330:GLU:OE2	2:K:502:ARG:NH2	2.23	0.72
3:L:1255:CYS:SG	3:L:1256:TRP:N	2.63	0.72
3:L:2942:ILE:HG13	3:L:3974:MET:HE1	1.70	0.72
3:L:3778:ASP:OD1	3:L:3780:ALA:N	2.22	0.72
3:C:66:LEU:HD11	3:C:89:LEU:HD11	1.71	0.72
3:C:1255:CYS:SG	3:C:1256:TRP:N	2.63	0.72
7:F:134:ILE:CD1	7:G:130:CYS:HB3	2.19	0.72
3:L:1479:VAL:HG12	3:L:1518:ALA:HA	1.72	0.72
7:O:134:ILE:CG1	7:P:134:ILE:HG12	2.11	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1082:PHE:CE2	3:C:1134:LEU:HG	2.25	0.72
3:L:714:VAL:HG11	3:L:732:PHE:HE2	1.55	0.72
1:A:330:GLU:OE2	2:B:502:ARG:NH2	2.23	0.71
3:C:947:GLN:HB3	3:L:2578:GLU:OE2	1.90	0.71
3:C:1237:ALA:O	3:C:1292:LYS:NZ	2.19	0.71
9:Y:824:ALA:HB2	9:Y:833:ASN:HD21	1.53	0.71
3:C:2848:PHE:HB2	3:C:3077:ILE:HD11	1.72	0.71
1:A:176:HIS:CD2	1:A:182:LYS:HD3	2.24	0.71
3:C:1174:ALA:O	3:C:1228:GLY:N	2.23	0.71
3:L:1277:GLY:O	3:L:1281:VAL:N	2.21	0.71
3:C:3917:ILE:HG23	3:C:4051:LEU:HD21	1.72	0.71
3:L:2123:PRO:HB3	3:L:2164:TRP:CZ2	2.24	0.71
3:L:3921:GLY:O	3:L:3923:ARG:NE	2.22	0.71
3:C:1935:GLU:OE1	3:C:1935:GLU:N	2.22	0.71
3:C:2508:GLN:HE22	3:C:2549:LYS:HD2	1.56	0.71
3:C:3386:SER:O	3:C:3390:GLN:NE2	2.24	0.71
3:L:2189:ILE:O	3:L:2192:THR:OG1	2.09	0.71
2:K:265:LYS:HZ2	5:M:8:DA:H5"	1.56	0.71
1:A:346:MET:HB2	1:A:399:ARG:HB2	1.73	0.71
3:C:56:SER:HB2	3:C:3097:ASP:HB2	1.72	0.71
3:L:3467:ARG:NH2	3:L:3470:GLN:HB3	2.06	0.71
3:C:1129:ASP:O	3:C:1133:HIS:ND1	2.22	0.71
9:X:824:ALA:HB2	9:X:833:ASN:HD21	1.54	0.71
3:C:3467:ARG:NH2	3:C:3470:GLN:HB3	2.06	0.71
7:F:106:PHE:CE2	8:H:112:LEU:HD21	2.26	0.71
3:L:3917:ILE:HG23	3:L:4051:LEU:HD21	1.72	0.71
3:C:2274:ILE:HD11	3:C:2306:ASN:HD21	1.56	0.70
1:J:106:GLN:HB3	1:J:115:ARG:HE	1.56	0.70
3:L:1075:ARG:HH12	3:L:1114:ALA:HB3	1.56	0.70
3:L:1935:GLU:OE1	3:L:1935:GLU:N	2.21	0.70
7:O:134:ILE:HG12	7:P:134:ILE:HA	1.73	0.70
3:C:1479:VAL:HG12	3:C:1518:ALA:HA	1.72	0.70
3:C:3439:LEU:O	3:C:3442:TYR:N	2.22	0.70
2:K:61:THR:O	2:K:76:ASN:ND2	2.22	0.70
3:L:3281:CYS:O	3:L:3285:HIS:ND1	2.24	0.70
3:L:3502:MET:HB2	3:L:3514:VAL:HG11	1.73	0.70
3:L:3722:PHE:HB3	3:L:3740:ILE:HA	1.73	0.70
3:C:121:ALA:N	6:E:12:DT:OP1	2.23	0.70
3:L:1082:PHE:CE2	3:L:1134:LEU:HG	2.25	0.70
3:L:56:SER:HB2	3:L:3097:ASP:HB2	1.72	0.70
3:L:3386:SER:O	3:L:3390:GLN:NE2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3502:MET:HB2	3:C:3514:VAL:HG11	1.73	0.70
3:L:3820:MET:HE3	3:L:3821:SER:H	1.56	0.70
3:C:3031:TRP:HE1	3:C:3064:PHE:HZ	1.38	0.70
3:L:2848:PHE:HB2	3:L:3077:ILE:HD11	1.72	0.70
3:C:1075:ARG:HH12	3:C:1114:ALA:HB3	1.56	0.70
3:C:2578:GLU:OE2	3:L:947:GLN:HB3	1.92	0.70
3:C:3820:MET:HE3	3:C:3821:SER:H	1.56	0.70
3:C:3966:GLN:HB2	3:C:4128:MET:HE3	1.73	0.70
3:L:1146:ASN:OD1	3:L:1165:LEU:N	2.16	0.70
3:L:3439:LEU:O	3:L:3442:TYR:N	2.23	0.70
1:A:204:HIS:O	1:A:236:SER:OG	2.10	0.70
3:L:752:LEU:HD22	3:L:792:ILE:HD11	1.74	0.70
1:A:106:GLN:HB3	1:A:115:ARG:HE	1.57	0.70
1:A:481:PRO:HD3	1:A:507:THR:HG21	1.74	0.70
3:C:305:ASN:OD1	3:C:308:LEU:N	2.25	0.70
3:C:3921:GLY:O	3:C:3923:ARG:NE	2.22	0.70
2:K:266:SER:HB3	2:K:363:LYS:HG3	1.72	0.70
3:L:121:ALA:N	6:N:12:DT:OP1	2.23	0.70
1:A:271:VAL:HG11	1:A:368:VAL:HG13	1.74	0.69
3:C:476:ARG:O	3:C:479:ILE:HG22	1.92	0.69
3:C:3582:GLU:O	3:C:3585:PHE:N	2.20	0.69
1:J:456:PRO:HA	1:J:459:VAL:HG12	1.74	0.69
1:A:452:ILE:HD11	2:B:374:ALA:HB3	1.74	0.69
3:C:1877:LEU:HD13	3:C:1915:LEU:HD21	1.74	0.69
3:L:1174:ALA:O	3:L:1228:GLY:N	2.23	0.69
3:L:3966:GLN:HB2	3:L:4128:MET:HE3	1.73	0.69
7:O:130:CYS:HB3	7:P:134:ILE:CD1	2.20	0.69
1:A:253:LYS:HA	2:B:433:TYR:HE1	1.57	0.69
1:A:352:PRO:HD2	1:A:352:PRO:O	1.92	0.69
1:J:271:VAL:HG11	1:J:368:VAL:HG13	1.74	0.69
1:J:346:MET:HB2	1:J:399:ARG:HB2	1.72	0.69
3:C:465:PHE:HD1	3:C:479:ILE:HD11	1.57	0.69
3:L:2379:MET:HE1	3:L:2408:MET:HE3	1.75	0.69
2:B:266:SER:HB3	2:B:363:LYS:HG3	1.72	0.69
3:L:476:ARG:O	3:L:479:ILE:HG22	1.92	0.69
3:L:3797:THR:HG23	3:L:3799:ARG:H	1.58	0.69
1:J:481:PRO:HD3	1:J:507:THR:HG21	1.74	0.69
3:L:305:ASN:OD1	3:L:308:LEU:N	2.25	0.69
3:C:118:ASP:OD1	3:C:119:ARG:N	2.26	0.69
3:C:3281:CYS:O	3:C:3285:HIS:ND1	2.24	0.69
3:C:3722:PHE:HB3	3:C:3740:ILE:HA	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:118:ASP:OD1	3:L:119:ARG:N	2.26	0.69
3:L:449:TYR:HB3	3:L:453:MET:HB3	1.75	0.69
9:Y:741:ARG:NH1	9:Y:741:ARG:O	2.26	0.69
3:C:801:LYS:O	3:C:3115:SER:OG	2.11	0.69
3:C:2379:MET:HE1	3:C:2408:MET:HE3	1.75	0.69
3:C:3530:VAL:HG21	3:C:3568:ILE:HD13	1.75	0.69
3:C:3701:ILE:HG13	3:C:3717:VAL:HG13	1.74	0.69
2:K:262:ALA:N	2:K:365:PHE:O	2.22	0.69
3:L:3156:PRO:HD2	3:L:3157:LEU:H	1.57	0.69
3:C:994:TRP:CH2	3:C:2581:LEU:HB3	2.27	0.69
3:C:2773:ARG:HH11	3:C:2775:TYR:HE1	1.39	0.69
3:L:1235:ILE:HG13	3:L:1259:LEU:HG	1.75	0.69
3:L:2274:ILE:HD11	3:L:2306:ASN:HD21	1.56	0.69
3:L:2773:ARG:HH11	3:L:2775:TYR:HE1	1.39	0.69
3:L:3701:ILE:HG13	3:L:3717:VAL:HG13	1.74	0.69
3:C:1271:ILE:HD12	3:C:1348:LEU:HA	1.75	0.68
3:C:1945:TYR:HE2	3:C:2097:LEU:HD21	1.59	0.68
3:C:3797:THR:HG23	3:C:3799:ARG:H	1.58	0.68
3:L:2977:ASN:OD1	7:P:272:ARG:NH2	2.26	0.68
3:C:752:LEU:HD22	3:C:792:ILE:HD11	1.74	0.68
3:L:994:TRP:CH2	3:L:2581:LEU:HB3	2.28	0.68
2:B:358:GLY:HA2	2:B:423:GLN:HB3	1.76	0.68
3:C:2329:TYR:CE2	3:C:2333:ARG:HG3	2.28	0.68
3:L:1237:ALA:O	3:L:1240:THR:OG1	2.11	0.68
3:L:2508:GLN:HE22	3:L:2549:LYS:HD2	1.56	0.68
3:C:1235:ILE:HG13	3:C:1259:LEU:HG	1.75	0.68
1:J:452:ILE:HD11	2:K:374:ALA:HB3	1.74	0.68
3:L:135:LEU:HD12	3:L:184:VAL:HG21	1.76	0.68
3:L:465:PHE:HD1	3:L:479:ILE:HD11	1.57	0.68
3:L:3031:TRP:HE1	3:L:3064:PHE:HZ	1.38	0.68
3:C:3465:PHE:HB3	3:C:3498:TRP:HZ2	1.58	0.68
2:K:358:GLY:HA2	2:K:423:GLN:HB3	1.76	0.68
3:L:2203:THR:HG21	3:L:2247:ASP:HB2	1.75	0.68
3:L:3465:PHE:HB3	3:L:3498:TRP:HZ2	1.58	0.68
3:C:2198:GLY:HA3	3:C:2722:ARG:HB3	1.76	0.68
3:L:2891:ARG:HH21	3:L:2891:ARG:HG3	1.59	0.68
3:L:3148:GLN:HA	3:L:3151:LEU:HB2	1.76	0.68
1:A:71:TYR:CD2	1:A:116:ILE:HD11	2.29	0.68
1:A:456:PRO:HA	1:A:459:VAL:HG12	1.74	0.68
3:C:135:LEU:HD12	3:C:184:VAL:HG21	1.76	0.68
3:C:1237:ALA:O	3:C:1240:THR:OG1	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3156:PRO:HD2	3:C:3157:LEU:H	1.57	0.68
1:J:253:LYS:HA	2:K:433:TYR:HE1	1.57	0.68
9:X:741:ARG:NH1	9:X:741:ARG:O	2.26	0.68
1:A:253:LYS:HA	2:B:433:TYR:CE1	2.29	0.68
3:C:449:TYR:HB3	3:C:453:MET:HB3	1.75	0.68
1:J:71:TYR:CD2	1:J:116:ILE:HD11	2.29	0.68
3:L:2329:TYR:CE2	3:L:2333:ARG:HG3	2.28	0.68
3:L:3530:VAL:HG21	3:L:3568:ILE:HD13	1.75	0.68
3:C:1098:GLN:HB2	3:C:1152:ARG:HE	1.59	0.68
3:L:3227:ILE:O	3:L:3230:LEU:N	2.27	0.68
3:C:1455:CYS:SG	3:C:1517:LEU:HD13	2.34	0.67
3:C:3227:ILE:O	3:C:3230:LEU:N	2.27	0.67
1:J:352:PRO:O	1:J:352:PRO:HD2	1.92	0.67
3:L:493:LYS:HE3	3:L:522:PRO:C	2.19	0.67
3:L:938:VAL:HG21	3:L:969:LEU:HD11	1.76	0.67
3:L:1751:GLU:OE1	3:L:1788:ARG:NH2	2.27	0.67
3:L:1820:VAL:HG12	3:L:1824:LEU:HD13	1.75	0.67
3:L:3815:LEU:HD11	3:L:3890:MET:HE1	1.77	0.67
2:B:116:ASP:O	2:B:120:HIS:ND1	2.27	0.67
3:C:1820:VAL:HG12	3:C:1824:LEU:HD13	1.74	0.67
3:C:2977:ASN:OD1	7:F:272:ARG:NH2	2.27	0.67
3:L:1696:LEU:HB3	3:L:1758:LEU:HD21	1.76	0.67
3:L:1909:ASN:ND2	3:L:1912:THR:OG1	2.26	0.67
3:C:2189:ILE:O	3:C:2192:THR:OG1	2.09	0.67
3:L:1877:LEU:HD13	3:L:1915:LEU:HD21	1.75	0.67
3:L:1945:TYR:HE2	3:L:2097:LEU:HD21	1.59	0.67
3:L:2981:TRP:CD1	3:L:2986:PRO:HD3	2.29	0.67
2:B:61:THR:OG1	2:B:63:GLY:O	2.12	0.67
2:B:234:LEU:HD21	8:I:299:PHE:HE1	1.60	0.67
2:B:411:HIS:N	2:B:418:CYS:O	2.23	0.67
3:C:2203:THR:HG21	3:C:2247:ASP:HB2	1.75	0.67
3:C:3006:ALA:HA	3:C:3008:TRP:HE1	1.60	0.67
3:C:3148:GLN:HA	3:C:3151:LEU:HB2	1.76	0.67
3:C:3263:HIS:O	3:C:3266:SER:N	2.23	0.67
3:C:3815:LEU:HD11	3:C:3890:MET:HE1	1.77	0.67
7:F:134:ILE:HA	7:G:134:ILE:HG12	1.74	0.67
1:J:253:LYS:HA	2:K:433:TYR:CE1	2.29	0.67
3:L:1098:GLN:HB2	3:L:1152:ARG:HE	1.59	0.67
3:C:243:GLN:O	3:C:247:GLU:HG3	1.95	0.67
3:C:2753:ARG:NH2	3:C:2756:GLU:OE2	2.28	0.67
3:C:2981:TRP:CD1	3:C:2986:PRO:HD3	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:299:PHE:HE1	2:K:234:LEU:CD2	2.06	0.67
2:K:116:ASP:O	2:K:120:HIS:ND1	2.27	0.67
3:L:1271:ILE:HD12	3:L:1348:LEU:HA	1.76	0.67
3:C:493:LYS:HE3	3:C:522:PRO:C	2.19	0.67
3:C:1958:GLU:HB2	3:C:1961:PHE:HD1	1.60	0.67
1:J:370:PRO:HG3	1:J:382:PHE:CG	2.30	0.67
3:L:1455:CYS:SG	3:L:1517:LEU:HD13	2.34	0.67
3:L:2241:LEU:HD12	3:L:2245:TRP:HE1	1.60	0.67
3:L:2198:GLY:HA3	3:L:2722:ARG:HB3	1.76	0.67
1:A:59:PRO:HB3	1:A:205:LEU:HD13	1.77	0.67
3:C:330:ASN:HB3	3:C:333:MET:HE1	1.77	0.67
3:C:970:LEU:HD11	3:C:1013:ILE:HD13	1.77	0.67
1:J:363:ARG:HD2	1:J:436:PHE:CE1	2.30	0.67
1:A:370:PRO:HG3	1:A:382:PHE:CG	2.30	0.66
3:C:51:LEU:HD21	3:C:96:MET:HG2	1.77	0.66
3:C:3328:ILE:HD11	3:C:3415:THR:HG21	1.77	0.66
2:K:61:THR:OG1	2:K:63:GLY:O	2.12	0.66
3:L:243:GLN:O	3:L:247:GLU:HG3	1.95	0.66
3:L:1449:ALA:HA	3:L:1452:VAL:HG22	1.77	0.66
1:A:363:ARG:HD2	1:A:436:PHE:CE1	2.30	0.66
3:L:3328:ILE:HD11	3:L:3415:THR:HG21	1.77	0.66
3:L:3360:LEU:O	3:L:3363:SER:OG	2.11	0.66
1:A:317:LYS:HA	1:A:317:LYS:HE3	1.77	0.66
3:L:51:LEU:HD21	3:L:96:MET:HG2	1.77	0.66
3:L:3425:ARG:CZ	3:L:3467:ARG:HH11	2.08	0.66
3:C:938:VAL:HG21	3:C:969:LEU:HD11	1.76	0.66
3:C:1751:GLU:OE1	3:C:1788:ARG:NH2	2.27	0.66
3:C:1696:LEU:HB3	3:C:1758:LEU:HD21	1.76	0.66
1:J:78:SER:O	1:J:80:ARG:N	2.29	0.66
3:L:1897:ASN:N	3:L:1898:GLN:OE1	2.28	0.66
3:L:3006:ALA:HA	3:L:3008:TRP:HE1	1.60	0.66
1:A:78:SER:O	1:A:80:ARG:N	2.29	0.66
3:C:58:VAL:HG13	3:C:65:LEU:HD13	1.76	0.66
3:C:1449:ALA:HA	3:C:1452:VAL:HG22	1.77	0.66
3:C:1799:GLU:O	3:C:1803:GLU:HG2	1.95	0.66
3:C:1897:ASN:N	3:C:1898:GLN:OE1	2.28	0.66
3:C:1909:ASN:ND2	3:C:1912:THR:OG1	2.27	0.66
3:C:3425:ARG:CZ	3:C:3467:ARG:HH11	2.08	0.66
3:L:946:THR:HG21	3:L:2581:LEU:HD21	1.78	0.66
3:L:58:VAL:HG13	3:L:65:LEU:HD13	1.77	0.66
3:L:330:ASN:HB3	3:L:333:MET:HE1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:THR:HB	1:A:61:ASP:HB2	1.77	0.66
3:C:2603:THR:HB	3:C:2604:PRO:HD3	1.78	0.66
7:O:134:ILE:CD1	7:P:134:ILE:HG13	2.25	0.66
3:C:2891:ARG:HH21	3:C:2891:ARG:HG3	1.59	0.66
3:L:935:HIS:HB2	3:L:984:TYR:HE1	1.60	0.66
3:L:970:LEU:HD11	3:L:1013:ILE:HD13	1.77	0.66
3:L:1799:GLU:O	3:L:1803:GLU:HG2	1.95	0.66
3:L:1958:GLU:HB2	3:L:1961:PHE:HD1	1.60	0.66
3:L:3448:GLU:HG3	3:L:3485:LYS:HG2	1.78	0.66
3:C:724:GLU:HG2	3:C:2602:LEU:HA	1.79	0.65
3:L:724:GLU:HG2	3:L:2602:LEU:HA	1.78	0.65
3:L:801:LYS:O	3:L:3115:SER:OG	2.11	0.65
9:Y:724:ALA:HA	9:Y:727:LEU:HD12	1.78	0.65
3:L:3881:ASP:H	3:L:3969:ASN:ND2	1.94	0.65
1:A:368:VAL:HG12	1:A:382:PHE:HE2	1.62	0.65
3:C:2241:LEU:HD12	3:C:2245:TRP:HE1	1.60	0.65
1:J:58:THR:HB	1:J:61:ASP:HB2	1.77	0.65
1:J:204:HIS:O	1:J:236:SER:OG	2.10	0.65
3:L:2753:ARG:NH2	3:L:2756:GLU:OE2	2.28	0.65
1:J:317:LYS:HA	1:J:317:LYS:HE3	1.77	0.65
3:L:2587:GLN:O	3:L:2777:HIS:N	2.29	0.65
7:F:134:ILE:HG13	7:G:134:ILE:CD1	2.26	0.65
1:J:115:ARG:HB2	1:J:115:ARG:NH2	2.12	0.65
2:K:246:HIS:HA	2:K:264:TYR:CE1	2.32	0.65
3:L:713:GLU:O	3:L:717:LYS:HG3	1.96	0.65
3:L:2379:MET:HE2	3:L:2383:PHE:CE2	2.32	0.65
1:A:40:PHE:N	1:A:84:ALA:O	2.29	0.65
2:B:242:ARG:NH1	2:B:243:HIS:O	2.29	0.65
3:C:3360:LEU:O	3:C:3363:SER:OG	2.11	0.65
3:L:3239:LYS:O	3:L:3243:ILE:HD12	1.96	0.65
3:L:3856:MET:HE2	3:L:4072:PRO:HD2	1.78	0.65
3:C:935:HIS:HB2	3:C:984:TYR:HE1	1.60	0.65
3:C:3151:LEU:HG	3:C:3196:LYS:HE2	1.79	0.65
1:A:108:LEU:HD11	1:A:154:PHE:HD1	1.62	0.65
1:A:207:LYS:HD3	1:A:210:GLY:HA3	1.79	0.65
3:C:1828:LEU:HD23	3:C:1880:MET:HE3	1.79	0.65
3:C:3843:LEU:HD22	3:C:3858:MET:HE1	1.79	0.65
3:C:16:GLN:NE2	3:C:64:GLY:H	1.95	0.65
3:C:713:GLU:O	3:C:717:LYS:HG3	1.96	0.65
2:K:242:ARG:NH1	2:K:243:HIS:O	2.29	0.65
3:L:1828:LEU:HD23	3:L:1880:MET:HE3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:265:LYS:NZ	5:D:8:DA:H5''	2.12	0.65
3:C:919:LEU:HD11	3:C:968:VAL:HG13	1.77	0.65
3:C:946:THR:HG21	3:C:2581:LEU:HD21	1.78	0.65
3:C:2379:MET:HE2	3:C:2383:PHE:CE2	2.31	0.65
2:K:245:ILE:HD13	5:M:8:DA:H5'	1.79	0.65
3:L:2603:THR:HB	3:L:2604:PRO:HD3	1.78	0.65
3:C:853:ILE:HG13	3:C:3107:ILE:HG21	1.79	0.64
1:J:59:PRO:HB3	1:J:205:LEU:HD13	1.77	0.64
3:C:3448:GLU:HG3	3:C:3485:LYS:HG2	1.78	0.64
3:C:3881:ASP:H	3:C:3969:ASN:ND2	1.94	0.64
1:J:41:LEU:HD13	1:J:86:VAL:HG13	1.79	0.64
3:L:932:GLU:OE1	3:L:2793:PRO:HB3	1.97	0.64
3:C:204:LEU:O	3:C:208:MET:HG2	1.97	0.64
3:C:1711:ARG:NH1	3:C:1760:GLU:OE2	2.22	0.64
3:C:1860:GLU:N	3:C:1860:GLU:OE1	2.31	0.64
2:K:409:PHE:N	2:K:420:VAL:O	2.31	0.64
3:L:853:ILE:HG13	3:L:3107:ILE:HG21	1.79	0.64
3:L:910:PHE:HE1	3:L:2794:LEU:HD21	1.63	0.64
9:X:724:ALA:HA	9:X:727:LEU:HD12	1.78	0.64
3:C:32:HIS:CD2	3:C:84:GLU:HG3	2.32	0.64
3:C:1018:VAL:HG23	3:C:1074:LYS:HA	1.79	0.64
3:C:1619:ALA:HA	3:C:1652:ILE:HD11	1.79	0.64
3:C:2587:GLN:O	3:C:2777:HIS:N	2.29	0.64
3:L:631:ARG:HH11	3:L:668:LYS:HD3	1.62	0.64
3:L:1035:GLU:OE2	3:L:1039:TRP:NE1	2.31	0.64
3:L:3330:LEU:HB3	3:L:3384:HIS:NE2	2.11	0.64
3:C:493:LYS:HG2	3:C:494:PRO:HD2	1.80	0.64
3:C:3856:MET:HE2	3:C:4072:PRO:HD2	1.78	0.64
1:J:207:LYS:HD3	1:J:210:GLY:HA3	1.79	0.64
3:L:1069:HIS:CE1	3:L:1074:LYS:HD2	2.33	0.64
3:L:1860:GLU:OE1	3:L:1860:GLU:N	2.31	0.64
3:L:2159:PRO:O	3:L:2161:ALA:N	2.31	0.64
3:L:3653:ARG:C	3:L:3654:MET:HE2	2.23	0.64
1:A:490:LEU:HD11	2:B:316:TYR:HB2	1.79	0.64
2:B:245:ILE:HD13	5:D:8:DA:H5'	1.79	0.64
3:C:1927:MET:HE1	3:C:1977:ILE:HG12	1.79	0.64
3:C:3006:ALA:HB3	3:C:3257:LYS:HD2	1.80	0.64
6:E:25:DC:H2''	6:E:26:DT:H72	1.80	0.64
1:J:368:VAL:HG12	1:J:382:PHE:HE2	1.62	0.64
2:K:265:LYS:NZ	5:M:8:DA:H5''	2.12	0.64
3:L:919:LEU:HD11	3:L:968:VAL:HG13	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1018:VAL:HG23	3:L:1074:LYS:HA	1.79	0.64
3:L:2148:LYS:HA	3:L:2151:ILE:HD12	1.80	0.64
3:L:3060:SER:O	3:L:3063:THR:OG1	2.15	0.64
3:L:3843:LEU:HD22	3:L:3858:MET:HE1	1.79	0.64
7:O:134:ILE:CG2	7:O:138:GLN:NE2	2.55	0.64
9:X:663:GLU:HA	9:X:688:TYR:HB3	1.80	0.64
9:Y:722:LYS:HZ3	9:Y:742:PHE:HD1	1.45	0.64
1:A:115:ARG:HB2	1:A:115:ARG:NH2	2.12	0.64
2:B:549:THR:HA	2:B:552:GLU:HB3	1.80	0.64
3:C:1069:HIS:CE1	3:C:1074:LYS:HD2	2.33	0.64
3:C:1990:PHE:HA	3:C:2734:ARG:HD3	1.78	0.64
3:C:3653:ARG:C	3:C:3654:MET:HE2	2.23	0.64
1:J:108:LEU:HD11	1:J:154:PHE:HD1	1.62	0.64
3:L:16:GLN:NE2	3:L:64:GLY:H	1.95	0.64
2:B:246:HIS:HA	2:B:264:TYR:CE1	2.32	0.64
3:C:910:PHE:HE1	3:C:2794:LEU:HD21	1.63	0.64
3:C:2159:PRO:O	3:C:2161:ALA:N	2.31	0.64
3:C:3330:LEU:HB3	3:C:3384:HIS:NE2	2.12	0.64
1:J:360:HIS:HB2	1:J:438:PRO:HG3	1.80	0.64
2:K:406:GLY:HA2	2:K:424:LEU:HB2	1.80	0.64
3:L:1967:PHE:HD2	3:L:2122:LEU:HG	1.63	0.64
3:L:1990:PHE:HA	3:L:2734:ARG:HD3	1.78	0.64
3:L:2773:ARG:NE	3:L:2789:SER:OG	2.30	0.64
3:L:3582:GLU:O	3:L:3585:PHE:N	2.20	0.64
2:B:406:GLY:HA2	2:B:424:LEU:HB2	1.80	0.64
2:B:409:PHE:N	2:B:420:VAL:O	2.31	0.64
3:C:2446:LEU:HB2	3:C:2450:GLU:OE2	1.98	0.64
3:C:3239:LYS:O	3:C:3243:ILE:HD12	1.97	0.64
2:K:465:LYS:H	2:K:474:GLU:H	1.46	0.64
3:L:2329:TYR:HE2	3:L:2333:ARG:HG3	1.61	0.64
2:B:465:LYS:H	2:B:474:GLU:H	1.46	0.64
3:C:2329:TYR:HE2	3:C:2333:ARG:HG3	1.61	0.64
3:C:3483:MET:O	3:C:3488:SER:OG	2.14	0.64
3:C:1035:GLU:OE2	3:C:1039:TRP:NE1	2.31	0.63
3:L:392:CYS:HA	3:L:395:MET:HG3	1.79	0.63
1:A:75:ILE:HD13	1:A:111:PRO:HB2	1.80	0.63
3:C:169:THR:O	3:C:172:GLU:HG2	1.98	0.63
1:J:415:PRO:O	1:J:416:GLN:NE2	2.31	0.63
3:L:1046:PRO:HA	3:L:1049:GLN:HB3	1.80	0.63
3:L:1181:THR:O	3:L:1184:ARG:HG2	1.99	0.63
3:L:2358:ASP:OD1	3:L:2359:LYS:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2446:LEU:HB2	3:L:2450:GLU:OE2	1.98	0.63
2:B:56:LEU:HB2	2:B:80:HIS:HB3	1.80	0.63
3:C:1443:VAL:O	3:C:1447:ARG:NH1	2.31	0.63
1:J:483:LEU:HD13	2:K:428:GLU:HG3	1.81	0.63
2:K:264:TYR:O	2:K:363:LYS:N	2.20	0.63
3:L:32:HIS:CD2	3:L:84:GLU:HG3	2.33	0.63
3:L:3443:PRO:HA	3:L:3446:VAL:HG12	1.80	0.63
7:O:134:ILE:HG22	7:O:138:GLN:HE22	1.63	0.63
2:B:151:ILE:HA	2:B:154:LEU:HD12	1.80	0.63
3:C:4047:ALA:O	3:C:4050:LYS:HG2	1.99	0.63
3:L:204:LEU:O	3:L:208:MET:HG2	1.97	0.63
3:L:3176:MET:HE3	3:L:3246:ALA:HA	1.80	0.63
3:L:3467:ARG:HH22	3:L:3471:ILE:N	1.97	0.63
1:A:455:THR:H	1:A:458:GLN:NE2	1.96	0.63
3:C:275:PHE:HZ	3:C:286:LEU:HD11	1.64	0.63
3:C:932:GLU:OE1	3:C:2793:PRO:HB3	1.98	0.63
3:C:1281:VAL:HG12	3:C:1282:LEU:HD12	1.80	0.63
3:C:1935:GLU:HG2	3:C:1936:ARG:HD2	1.80	0.63
3:C:1967:PHE:HD2	3:C:2122:LEU:HG	1.63	0.63
5:D:23:DG:H2'	5:D:24:DA:C8	2.34	0.63
3:L:1443:VAL:O	3:L:1447:ARG:NH1	2.31	0.63
1:A:41:LEU:HD13	1:A:86:VAL:HG13	1.79	0.63
3:C:2131:GLY:C	3:C:2134:GLY:H	2.07	0.63
3:C:3176:MET:HE3	3:C:3246:ALA:HA	1.80	0.63
3:L:477:ASN:O	3:L:480:SER:OG	2.16	0.63
3:L:493:LYS:HG2	3:L:494:PRO:HD2	1.80	0.63
3:L:1619:ALA:HA	3:L:1652:ILE:HD11	1.79	0.63
3:L:1927:MET:HE1	3:L:1977:ILE:HG12	1.80	0.63
3:L:2131:GLY:C	3:L:2134:GLY:H	2.07	0.63
3:L:3151:LEU:HG	3:L:3196:LYS:HE2	1.79	0.63
1:A:415:PRO:O	1:A:416:GLN:NE2	2.31	0.63
3:C:392:CYS:HA	3:C:395:MET:HG3	1.79	0.63
3:C:892:LEU:HD11	3:C:961:LEU:HD21	1.80	0.63
3:C:1878:ASP:OD1	3:C:1879:VAL:N	2.31	0.63
2:K:56:LEU:HB2	2:K:80:HIS:HB3	1.80	0.63
3:L:892:LEU:HD11	3:L:961:LEU:HD21	1.80	0.63
3:L:1169:VAL:HG21	3:L:1198:LEU:HD21	1.81	0.63
3:L:1878:ASP:OD1	3:L:1879:VAL:N	2.31	0.63
3:L:3183:ILE:HD11	3:L:3239:LYS:HG2	1.81	0.63
1:A:360:HIS:HB2	1:A:438:PRO:HG3	1.80	0.63
1:A:483:LEU:HD13	2:B:428:GLU:HG3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3179:TRP:HD1	3:C:3242:MET:HG3	1.62	0.63
3:C:3183:ILE:HD11	3:C:3239:LYS:HG2	1.81	0.63
3:C:3977:THR:HA	3:C:3981:TYR:CB	2.29	0.63
3:L:1479:VAL:O	3:L:1482:GLU:HG3	1.99	0.63
3:L:3179:TRP:HD1	3:L:3242:MET:HG3	1.61	0.63
6:N:25:DC:H2''	6:N:26:DT:H72	1.80	0.63
2:B:300:ASP:H	3:C:117:LYS:NZ	1.97	0.63
3:C:631:ARG:HH11	3:C:668:LYS:HD3	1.62	0.63
3:C:2582:SER:OG	3:C:2583:GLU:N	2.32	0.63
3:C:3467:ARG:HH22	3:C:3471:ILE:N	1.97	0.63
1:J:43:ASP:HA	1:J:88:TYR:CE1	2.34	0.63
3:L:275:PHE:HZ	3:L:286:LEU:HD11	1.64	0.63
3:L:1981:LEU:HD13	3:L:2139:PRO:HG2	1.81	0.63
5:M:2:DC:N3	6:N:29:DG:N2	2.47	0.63
3:C:1046:PRO:HA	3:C:1049:GLN:HB3	1.80	0.62
2:K:549:THR:HA	2:K:552:GLU:HB3	1.80	0.62
3:L:446:PHE:CD2	3:L:530:LEU:HD13	2.34	0.62
3:L:796:LEU:HD11	3:L:858:MET:HE1	1.81	0.62
3:L:1323:SER:OG	3:L:1326:GLU:OE1	2.17	0.62
3:L:3006:ALA:HB3	3:L:3257:LYS:HD2	1.80	0.62
3:C:1287:GLN:OE1	3:C:1289:SER:OG	2.13	0.62
3:C:1444:ASP:OD1	3:C:1445:ARG:N	2.32	0.62
3:C:1479:VAL:O	3:C:1482:GLU:HG3	1.99	0.62
3:C:3443:PRO:HA	3:C:3446:VAL:HG12	1.80	0.62
2:K:300:ASP:H	3:L:117:LYS:NZ	1.97	0.62
3:L:3493:TRP:O	3:L:3496:ILE:N	2.30	0.62
3:L:3786:LEU:HB3	3:L:3910:LEU:HD22	1.81	0.62
1:A:124:GLY:O	1:A:128:GLN:N	2.30	0.62
3:C:1181:THR:O	3:C:1184:ARG:HG2	1.99	0.62
3:C:1938:ARG:NH1	3:C:1978:PHE:O	2.32	0.62
3:C:2148:LYS:HA	3:C:2151:ILE:HD12	1.80	0.62
3:C:2358:ASP:OD1	3:C:2359:LYS:N	2.31	0.62
1:J:455:THR:H	1:J:458:GLN:NE2	1.96	0.62
2:K:151:ILE:HA	2:K:154:LEU:HD12	1.80	0.62
2:K:353:ARG:HA	2:K:356:PHE:CE1	2.34	0.62
3:L:1287:GLN:OE1	3:L:1289:SER:OG	2.13	0.62
5:M:23:DG:H2'	5:M:24:DA:C8	2.34	0.62
3:C:348:ILE:O	3:C:352:VAL:HG12	1.99	0.62
3:C:446:PHE:CD2	3:C:530:LEU:HD13	2.35	0.62
3:C:3486:GLU:O	3:C:3489:SER:N	2.24	0.62
3:C:3786:LEU:HB3	3:C:3910:LEU:HD22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:490:LEU:HD11	2:K:316:TYR:HB2	1.79	0.62
3:L:1281:VAL:HG12	3:L:1282:LEU:HD12	1.80	0.62
3:L:1938:ARG:NH1	3:L:1978:PHE:O	2.32	0.62
3:L:3813:LYS:HB3	3:L:3925:LEU:HB3	1.82	0.62
2:B:81:ARG:HD3	2:B:84:MET:HE2	1.81	0.62
3:C:153:PHE:HE1	3:C:196:LEU:HD12	1.65	0.62
3:C:1046:PRO:HD2	3:C:1047:GLN:H	1.64	0.62
3:C:3151:LEU:O	3:C:3196:LYS:NZ	2.33	0.62
3:C:3327:ASN:HD22	3:C:3384:HIS:CE1	2.17	0.62
1:J:124:GLY:O	1:J:128:GLN:N	2.30	0.62
3:L:169:THR:O	3:L:172:GLU:HG2	1.98	0.62
3:L:416:SER:O	3:L:419:SER:OG	2.14	0.62
3:L:3327:ASN:HD22	3:L:3384:HIS:CE1	2.17	0.62
3:L:3731:SER:H	3:L:3734:ARG:NE	1.97	0.62
3:L:4047:ALA:O	3:L:4050:LYS:HG2	1.99	0.62
3:C:796:LEU:HD11	3:C:858:MET:HE1	1.81	0.62
3:C:416:SER:O	3:C:419:SER:OG	2.14	0.62
3:C:1981:LEU:HD13	3:C:2139:PRO:HG2	1.81	0.62
5:D:24:DA:C2	5:D:25:DT:C2	2.88	0.62
3:L:348:ILE:O	3:L:352:VAL:HG12	1.99	0.62
3:L:3792:SER:N	3:L:3804:GLU:OE2	2.25	0.62
1:A:109:ASP:OD2	1:A:115:ARG:NH1	2.33	0.62
3:C:409:GLN:O	3:C:412:SER:N	2.32	0.62
3:C:3060:SER:O	3:C:3063:THR:OG1	2.15	0.62
3:C:4073:ALA:O	3:C:4076:ASP:N	2.33	0.62
1:J:317:LYS:HZ3	1:J:330:GLU:CD	2.08	0.62
3:L:1087:ARG:HE	3:L:1090:ARG:HE	1.47	0.62
3:L:1684:LEU:HD12	3:L:1688:LEU:HB3	1.82	0.62
3:L:2582:SER:OG	3:L:2583:GLU:N	2.32	0.62
1:A:372:GLU:OE2	1:A:377:GLY:N	2.22	0.62
3:C:769:GLY:O	3:C:772:ALA:N	2.33	0.62
3:C:3731:SER:H	3:C:3734:ARG:NE	1.97	0.62
3:L:1294:VAL:HA	3:L:1298:LEU:HD12	1.82	0.62
3:L:3465:PHE:HB3	3:L:3498:TRP:CZ2	2.35	0.62
1:A:43:ASP:HA	1:A:88:TYR:CE1	2.34	0.62
2:B:35:LYS:HE3	2:B:98:ILE:HG21	1.82	0.62
3:C:2773:ARG:NE	3:C:2789:SER:OG	2.30	0.62
3:C:737:PRO:O	3:C:740:ILE:HG22	2.00	0.61
3:C:1169:VAL:HG21	3:C:1198:LEU:HD21	1.80	0.61
3:C:1493:PRO:HG3	3:C:1500:LEU:HA	1.81	0.61
3:C:3729:MET:HE2	3:C:3805:TRP:CH2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:2:DC:N3	6:E:29:DG:N2	2.47	0.61
3:L:769:GLY:O	3:L:772:ALA:N	2.33	0.61
3:L:3263:HIS:O	3:L:3266:SER:N	2.23	0.61
5:M:24:DA:C2	5:M:25:DT:C2	2.88	0.61
3:C:85:ILE:HG23	3:C:86:LEU:HD12	1.80	0.61
3:C:330:ASN:OD1	3:C:331:ALA:N	2.32	0.61
3:C:1323:SER:OG	3:C:1326:GLU:OE1	2.17	0.61
3:C:3058:ASP:OD1	3:C:3060:SER:N	2.33	0.61
3:C:3493:TRP:O	3:C:3496:ILE:N	2.30	0.61
3:L:85:ILE:HG23	3:L:86:LEU:HD12	1.80	0.61
3:L:670:LEU:HD11	3:L:707:PHE:HE2	1.65	0.61
3:L:2239:LYS:HD3	3:L:2279:ILE:HG23	1.81	0.61
3:C:3465:PHE:HB3	3:C:3498:TRP:CZ2	2.35	0.61
3:C:3792:SER:N	3:C:3804:GLU:OE2	2.25	0.61
1:J:109:ASP:OD2	1:J:115:ARG:NH1	2.33	0.61
2:K:129:LYS:HZ3	2:K:131:HIS:CD2	2.17	0.61
3:L:474:VAL:HG13	3:L:475:LEU:HG	1.81	0.61
2:B:353:ARG:HA	2:B:356:PHE:CE1	2.34	0.61
3:C:2595:TRP:CD2	3:C:2764:LYS:HE2	2.35	0.61
6:E:25:DC:O2	6:E:26:DT:N3	2.33	0.61
1:J:75:ILE:HG21	2:K:316:TYR:CZ	2.36	0.61
3:L:237:SER:HB2	3:L:281:GLN:HA	1.82	0.61
3:L:2595:TRP:CD2	3:L:2764:LYS:HE2	2.36	0.61
1:A:467:GLU:O	1:A:470:ARG:HG3	2.01	0.61
3:C:463:LYS:HA	3:C:466:LEU:HD23	1.81	0.61
3:C:1897:ASN:OD1	3:C:1898:GLN:NE2	2.33	0.61
1:J:75:ILE:HD13	1:J:111:PRO:HB2	1.81	0.61
2:K:35:LYS:HE3	2:K:98:ILE:HG21	1.82	0.61
3:L:3151:LEU:O	3:L:3196:LYS:NZ	2.33	0.61
3:L:3483:MET:O	3:L:3488:SER:OG	2.14	0.61
3:L:3723:ASP:HB2	3:L:3741:ARG:HH11	1.66	0.61
3:C:670:LEU:HD11	3:C:707:PHE:HE2	1.65	0.61
3:C:928:VAL:HG11	3:C:2769:VAL:HB	1.82	0.61
3:C:1834:ASP:OD1	3:C:1837:ARG:NH2	2.27	0.61
3:C:3031:TRP:HH2	3:C:3078:LEU:HG	1.66	0.61
7:G:134:ILE:HG22	7:G:138:GLN:HE22	1.64	0.61
8:H:299:PHE:CE1	2:K:233:LYS:HD2	2.36	0.61
1:J:40:PHE:N	1:J:84:ALA:O	2.29	0.61
2:K:465:LYS:O	2:K:474:GLU:N	2.34	0.61
3:L:345:PHE:CE2	3:L:366:TYR:HA	2.36	0.61
3:L:1333:SER:O	3:L:1336:THR:OG1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3729:MET:HE2	3:L:3805:TRP:CH2	2.35	0.61
3:L:3977:THR:HA	3:L:3981:TYR:CB	2.29	0.61
3:L:4073:ALA:O	3:L:4076:ASP:N	2.33	0.61
3:C:524:TYR:OH	3:C:628:GLU:HG2	2.01	0.61
3:C:2239:LYS:HD3	3:C:2279:ILE:HG23	1.81	0.61
3:C:2478:MET:HE3	3:C:2524:PHE:CD1	2.36	0.61
3:L:868:LYS:HD3	3:L:3126:LEU:HD11	1.82	0.61
3:L:1444:ASP:OD1	3:L:1445:ARG:N	2.32	0.61
3:L:1935:GLU:HG2	3:L:1936:ARG:HD2	1.80	0.61
1:A:75:ILE:HG21	2:B:316:TYR:CZ	2.36	0.61
2:B:465:LYS:O	2:B:474:GLU:N	2.34	0.61
3:C:367:GLY:O	3:C:369:PHE:N	2.34	0.61
3:C:474:VAL:HG13	3:C:475:LEU:HG	1.81	0.61
3:C:1087:ARG:HE	3:C:1090:ARG:HE	1.47	0.61
3:C:3763:ARG:O	3:C:3767:LEU:HD12	2.01	0.61
1:J:233:PHE:CG	1:J:234:GLU:N	2.68	0.61
1:J:368:VAL:HB	1:J:432:PHE:HB2	1.83	0.61
2:K:242:ARG:HD3	2:K:273:LYS:HZ2	1.66	0.61
2:K:411:HIS:N	2:K:418:CYS:O	2.23	0.61
3:L:1493:PRO:HG3	3:L:1500:LEU:HA	1.81	0.61
3:C:1373:VAL:HG22	3:C:1423:ILE:HG21	1.83	0.61
3:C:3228:SER:HB2	3:C:3232:ARG:HH12	1.66	0.61
1:J:134:MET:HG3	1:J:135:MET:HG2	1.81	0.61
3:L:153:PHE:HE1	3:L:196:LEU:HD12	1.65	0.61
3:L:2478:MET:HE3	3:L:2524:PHE:CD1	2.36	0.61
3:L:3141:PHE:CD1	3:L:3189:PHE:HB3	2.36	0.61
1:A:317:LYS:HZ3	1:A:330:GLU:CD	2.08	0.61
1:A:368:VAL:HB	1:A:432:PHE:HB2	1.83	0.61
2:B:9:ALA:HB3	2:B:130:ARG:HG3	1.83	0.61
1:J:168:LEU:HB2	1:J:202:LEU:HB2	1.82	0.61
2:K:81:ARG:HD3	2:K:84:MET:HE2	1.81	0.61
2:K:509:GLN:OE1	2:K:511:HIS:NE2	2.28	0.61
3:L:1009:LEU:O	3:L:1013:ILE:HG12	2.01	0.61
3:L:1338:VAL:HA	3:L:1341:ILE:HG12	1.83	0.61
3:L:1373:VAL:HG22	3:L:1423:ILE:HG21	1.83	0.61
3:L:3031:TRP:HH2	3:L:3078:LEU:HG	1.65	0.61
3:L:3058:ASP:OD1	3:L:3060:SER:N	2.33	0.61
3:L:3681:LYS:HG2	3:L:3724:GLU:HA	1.83	0.61
3:L:4049:ARG:NH1	3:L:4062:ASP:OD2	2.34	0.61
9:X:674:PRO:HB2	9:X:677:ASP:HB3	1.83	0.61
9:Y:663:GLU:HA	9:Y:688:TYR:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1268:ASN:HD21	3:C:1344:PHE:HA	1.66	0.60
2:K:9:ALA:HB3	2:K:130:ARG:HG3	1.83	0.60
3:L:367:GLY:O	3:L:369:PHE:N	2.34	0.60
3:L:409:GLN:O	3:L:412:SER:N	2.32	0.60
3:L:524:TYR:OH	3:L:628:GLU:HG2	2.01	0.60
3:L:737:PRO:O	3:L:740:ILE:HG22	2.00	0.60
3:L:928:VAL:HG11	3:L:2769:VAL:HB	1.82	0.60
3:L:1711:ARG:NH1	3:L:1760:GLU:OE2	2.22	0.60
3:C:409:GLN:O	3:C:412:SER:OG	2.16	0.60
3:C:1367:HIS:HA	3:C:1370:ARG:HE	1.66	0.60
3:C:1601:LEU:O	3:C:1604:SER:OG	2.18	0.60
3:C:1946:ASN:ND2	3:C:2096:PRO:HG2	2.16	0.60
3:C:2185:MET:HE3	3:C:2189:ILE:HD11	1.82	0.60
3:C:2891:ARG:HD3	3:C:3894:PRO:HB3	1.83	0.60
3:C:3141:PHE:CD1	3:C:3189:PHE:HB3	2.36	0.60
3:C:3771:MET:O	3:C:3774:ILE:HG22	2.01	0.60
3:C:3813:LYS:HB3	3:C:3925:LEU:HB3	1.82	0.60
3:C:4049:ARG:NH1	3:C:4062:ASP:OD2	2.34	0.60
3:L:1346:THR:HB	3:L:1402:LEU:HD13	1.82	0.60
3:L:2185:MET:HE3	3:L:2189:ILE:HD11	1.82	0.60
3:L:2251:ILE:HG21	3:L:2280:VAL:HG21	1.83	0.60
2:B:242:ARG:HD3	2:B:273:LYS:HZ2	1.66	0.60
2:B:441:SER:OG	2:B:445:ALA:N	2.28	0.60
3:C:1294:VAL:HA	3:C:1298:LEU:HD12	1.82	0.60
3:C:2147:ALA:O	3:C:2150:VAL:N	2.35	0.60
1:J:304:ASN:OD1	1:J:305:THR:N	2.34	0.60
3:L:463:LYS:HA	3:L:466:LEU:HD23	1.82	0.60
3:L:2182:ILE:H	3:L:2182:ILE:HD12	1.67	0.60
3:L:2581:LEU:HD12	3:L:2783:ILE:HG13	1.83	0.60
3:L:2773:ARG:HE	3:L:2789:SER:HG	1.49	0.60
3:L:3533:PHE:CD2	3:L:3562:LEU:HD21	2.36	0.60
1:A:134:MET:HG3	1:A:135:MET:HG2	1.81	0.60
3:C:2361:ILE:HG13	3:C:2389:PHE:CE2	2.37	0.60
3:L:2165:LEU:HD11	3:L:2193:ILE:HG23	1.84	0.60
3:L:2478:MET:HE3	3:L:2524:PHE:HD1	1.66	0.60
1:A:233:PHE:CG	1:A:234:GLU:N	2.69	0.60
3:C:868:LYS:HD3	3:C:3126:LEU:HD11	1.82	0.60
3:C:1346:THR:HB	3:C:1402:LEU:HD13	1.83	0.60
3:C:2474:TYR:HB3	3:C:2521:ILE:HD11	1.83	0.60
7:G:20:LEU:HD11	7:G:34:ILE:HD11	1.84	0.60
1:J:134:MET:O	1:J:135:MET:HE2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:461:LYS:O	1:J:465:ILE:HD12	2.02	0.60
3:L:1946:ASN:ND2	3:L:2096:PRO:HG2	2.16	0.60
3:L:2361:ILE:HG13	3:L:2389:PHE:CE2	2.37	0.60
3:L:2474:TYR:HB3	3:L:2521:ILE:HD11	1.83	0.60
3:L:2954:GLN:HE21	3:L:2958:LEU:CD2	2.14	0.60
3:L:3763:ARG:O	3:L:3767:LEU:HD12	2.01	0.60
1:A:304:ASN:OD1	1:A:305:THR:N	2.34	0.60
3:C:237:SER:HB2	3:C:281:GLN:HA	1.81	0.60
3:C:1278:ALA:HB1	3:C:1358:LEU:HD21	1.84	0.60
3:C:1338:VAL:HA	3:C:1341:ILE:HG12	1.83	0.60
3:C:1684:LEU:HD12	3:C:1688:LEU:HB3	1.82	0.60
1:J:205:LEU:HD12	1:J:206:LYS:N	2.17	0.60
3:L:1367:HIS:HA	3:L:1370:ARG:HE	1.66	0.60
3:L:2891:ARG:HD3	3:L:3894:PRO:HB3	1.83	0.60
3:L:3771:MET:O	3:L:3774:ILE:HG22	2.01	0.60
6:N:25:DC:O2	6:N:26:DT:N3	2.33	0.60
3:C:24:ARG:HH21	3:C:75:SER:HB2	1.67	0.60
3:C:297:LEU:HD12	3:C:316:LEU:HD22	1.84	0.60
3:C:1916:ILE:HD12	3:C:1919:CYS:HB2	1.83	0.60
3:C:2954:GLN:HE21	3:C:2958:LEU:CD2	2.14	0.60
1:J:49:PHE:CD2	1:J:50:GLU:HG2	2.37	0.60
3:L:1991:PRO:HD3	3:L:2734:ARG:HE	1.67	0.60
3:L:3061:LEU:HD23	3:L:3089:LEU:HD13	1.84	0.60
1:A:42:VAL:HB	1:A:87:PHE:HD1	1.66	0.60
1:A:49:PHE:CD2	1:A:50:GLU:HG2	2.37	0.60
3:C:1009:LEU:O	3:C:1013:ILE:HG12	2.01	0.60
3:C:2182:ILE:HD12	3:C:2182:ILE:H	1.66	0.60
3:C:2562:LEU:HD13	3:C:2812:LEU:HD22	1.84	0.60
3:C:3533:PHE:CD2	3:C:3562:LEU:HD21	2.36	0.60
1:J:363:ARG:HH22	2:K:269:GLN:HE22	1.49	0.60
1:J:467:GLU:O	1:J:470:ARG:HG3	2.01	0.60
3:L:447:PRO:HG3	3:L:527:TYR:CE2	2.37	0.60
3:L:2101:VAL:HA	3:L:2104:MET:HE3	1.84	0.60
3:L:2417:SER:OG	3:L:2418:LYS:NZ	2.32	0.60
3:L:2572:TYR:CE1	3:L:2788:SER:HB2	2.37	0.60
3:L:2587:GLN:N	3:L:2777:HIS:O	2.31	0.60
1:A:346:MET:N	1:A:398:CYS:SG	2.75	0.60
2:B:464:ALA:HB1	2:B:473:LEU:HB3	1.84	0.60
3:C:2478:MET:HE3	3:C:2524:PHE:HD1	1.66	0.60
3:C:3134:ALA:O	3:C:3138:ILE:HG12	2.02	0.60
1:J:106:GLN:CB	1:J:115:ARG:HE	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:441:SER:OG	2:K:445:ALA:N	2.28	0.60
3:L:1897:ASN:OD1	3:L:1898:GLN:NE2	2.33	0.60
3:L:2589:TYR:CE1	3:L:2777:HIS:HB2	2.37	0.60
3:L:2950:LYS:NZ	3:L:2984:GLY:O	2.35	0.60
1:A:168:LEU:HB2	1:A:202:LEU:HB2	1.82	0.60
3:C:345:PHE:CE2	3:C:366:TYR:HA	2.36	0.60
3:C:2950:LYS:HZ2	3:C:2981:TRP:CD1	2.19	0.60
3:C:3269:ARG:NE	3:C:3272:TRP:HZ3	2.00	0.60
1:J:42:VAL:HB	1:J:87:PHE:HD1	1.66	0.60
2:K:270:GLU:OE2	2:K:273:LYS:NZ	2.32	0.60
3:L:2147:ALA:O	3:L:2150:VAL:N	2.35	0.60
3:L:2950:LYS:HZ2	3:L:2981:TRP:CD1	2.18	0.60
3:L:3486:GLU:O	3:L:3489:SER:N	2.24	0.60
3:C:1384:PHE:O	3:C:1386:ILE:N	2.35	0.59
3:C:3815:LEU:O	3:C:3819:THR:HG23	2.02	0.59
3:L:128:LEU:HD11	3:L:156:PHE:CE2	2.32	0.59
3:L:409:GLN:O	3:L:412:SER:OG	2.16	0.59
3:L:2945:SER:HB3	3:L:2947:ILE:HG12	1.84	0.59
1:A:205:LEU:HD12	1:A:206:LYS:N	2.17	0.59
1:A:363:ARG:HH22	2:B:269:GLN:HE22	1.49	0.59
3:C:1367:HIS:O	3:C:1370:ARG:HG2	2.02	0.59
3:C:1708:GLU:H	3:C:1708:GLU:CD	2.10	0.59
3:C:2950:LYS:NZ	3:C:2984:GLY:O	2.35	0.59
1:J:157:VAL:HG11	1:J:161:MET:HE3	1.83	0.59
3:L:1046:PRO:HD2	3:L:1047:GLN:H	1.65	0.59
3:L:1911:LEU:O	3:L:1914:THR:OG1	2.10	0.59
3:L:3153:SER:OG	3:L:3154:GLN:N	2.35	0.59
7:O:20:LEU:HD11	7:O:34:ILE:HD11	1.84	0.59
1:A:134:MET:O	1:A:135:MET:HE2	2.01	0.59
3:C:715:ALA:O	3:C:718:MET:HG3	2.02	0.59
3:C:1124:ILE:O	3:C:1127:CYS:N	2.36	0.59
3:C:2123:PRO:HA	3:C:2126:MET:HE2	1.83	0.59
3:C:2572:TYR:CE1	3:C:2788:SER:HB2	2.37	0.59
3:C:3681:LYS:HG2	3:C:3724:GLU:HA	1.83	0.59
1:J:346:MET:N	1:J:398:CYS:SG	2.75	0.59
3:L:330:ASN:OD1	3:L:331:ALA:N	2.32	0.59
3:L:3819:THR:HG21	3:L:3886:ALA:HB2	1.84	0.59
1:A:461:LYS:O	1:A:465:ILE:HD12	2.02	0.59
3:C:3723:ASP:HB2	3:C:3741:ARG:HH11	1.66	0.59
1:J:43:ASP:HB2	1:J:170:THR:HG22	1.83	0.59
2:K:251:LEU:N	2:K:259:ILE:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:231:LEU:HB3	3:L:278:HIS:CD2	2.38	0.59
3:L:715:ALA:O	3:L:718:MET:HG3	2.03	0.59
3:L:1916:ILE:HD12	3:L:1919:CYS:HB2	1.83	0.59
3:L:2246:LYS:HA	3:L:2249:LEU:HD12	1.83	0.59
1:A:43:ASP:HB2	1:A:170:THR:HG22	1.83	0.59
3:C:2165:LEU:HD11	3:C:2193:ILE:HG23	1.84	0.59
3:C:2531:LEU:HD21	3:C:2545:LEU:HD21	1.85	0.59
3:C:2999:LEU:HB3	3:C:3043:TYR:CD2	2.38	0.59
3:C:3061:LEU:HD23	3:C:3089:LEU:HD13	1.84	0.59
3:C:3582:GLU:N	3:C:3582:GLU:OE1	2.34	0.59
3:C:3685:PRO:O	3:C:3688:SER:OG	2.19	0.59
3:C:3747:GLU:O	3:C:3748:HIS:ND1	2.35	0.59
5:D:15:DT:C2	5:D:16:DG:C8	2.91	0.59
3:L:1764:GLU:O	3:L:1768:ARG:NH2	2.25	0.59
3:L:3134:ALA:O	3:L:3138:ILE:HG12	2.02	0.59
3:L:3269:ARG:NE	3:L:3272:TRP:HZ3	2.00	0.59
3:L:3815:LEU:O	3:L:3819:THR:HG23	2.02	0.59
5:M:15:DT:C2	5:M:16:DG:C8	2.91	0.59
1:A:400:TYR:CE2	1:A:402:PRO:HB3	2.38	0.59
3:C:2164:TRP:O	3:C:2167:PRO:HD2	2.03	0.59
3:C:2251:ILE:HG21	3:C:2280:VAL:HG21	1.83	0.59
3:C:3425:ARG:NH2	3:C:3467:ARG:HH11	2.00	0.59
3:C:3923:ARG:HH11	3:C:3928:PHE:HE1	1.49	0.59
3:L:2562:LEU:HD13	3:L:2812:LEU:HD22	1.84	0.59
3:L:4040:PRO:HA	3:L:4043:LYS:HG2	1.85	0.59
3:C:1804:MET:O	3:C:1811:ARG:NH2	2.36	0.59
3:C:1963:GLN:HG3	3:C:2125:TRP:HZ3	1.68	0.59
3:C:2589:TYR:CE1	3:C:2777:HIS:HB2	2.37	0.59
7:F:101:LEU:HD12	8:H:113:SER:HA	1.85	0.59
3:L:1278:ALA:HB1	3:L:1358:LEU:HD21	1.83	0.59
9:Y:674:PRO:HB2	9:Y:677:ASP:HB3	1.83	0.59
2:B:270:GLU:OE2	2:B:273:LYS:NZ	2.32	0.59
3:C:2841:ASN:HD21	3:C:2872:ASP:HB2	1.68	0.59
3:C:3161:LEU:HD11	3:C:3190:LEU:HD11	1.85	0.59
1:J:95:ASN:OD1	1:J:98:ASN:N	2.36	0.59
2:K:237:PHE:HB2	2:K:488:GLN:HE22	1.68	0.59
3:L:3180:ASP:HA	3:L:3183:ILE:HG22	1.85	0.59
3:L:3425:ARG:NH2	3:L:3467:ARG:HH11	2.00	0.59
1:A:95:ASN:OD1	1:A:98:ASN:N	2.36	0.59
3:C:3180:ASP:HA	3:C:3183:ILE:HG22	1.85	0.59
3:C:3551:ASN:O	3:C:3555:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:400:TYR:CE2	1:J:402:PRO:HB3	2.37	0.59
3:L:24:ARG:HH21	3:L:75:SER:HB2	1.67	0.59
3:L:297:LEU:HD12	3:L:316:LEU:HD22	1.84	0.59
3:L:782:ARG:NH2	3:L:3166:ASN:O	2.36	0.59
3:L:1017:ILE:HD13	3:L:1029:CYS:HB3	1.84	0.59
3:L:1804:MET:O	3:L:1811:ARG:NH2	2.36	0.59
3:L:3923:ARG:HH11	3:L:3928:PHE:HE1	1.49	0.59
1:A:106:GLN:CB	1:A:115:ARG:HE	2.14	0.59
1:A:157:VAL:HG11	1:A:161:MET:HE3	1.83	0.59
1:A:350:PHE:HE2	2:B:461:MET:HE3	1.67	0.59
3:C:447:PRO:HG3	3:C:527:TYR:CE2	2.37	0.59
3:C:573:LEU:HD11	3:C:649:PHE:HA	1.85	0.59
3:C:1237:ALA:HA	3:C:1292:LYS:HD2	1.85	0.59
3:C:2101:VAL:HA	3:C:2104:MET:HE3	1.84	0.59
7:G:134:ILE:HG22	7:G:138:GLN:OE1	2.03	0.59
1:J:75:ILE:HG21	2:K:316:TYR:CE1	2.38	0.59
1:J:345:LEU:HD21	1:J:400:TYR:HD1	1.68	0.59
3:L:1384:PHE:O	3:L:1386:ILE:N	2.35	0.59
3:L:2123:PRO:HA	3:L:2126:MET:HE2	1.83	0.59
3:L:2531:LEU:HD21	3:L:2545:LEU:HD21	1.85	0.59
3:L:3228:SER:HB2	3:L:3232:ARG:HH12	1.66	0.59
5:M:14:DA:C2	5:M:15:DT:C2	2.91	0.59
9:Y:656:SER:HB3	9:Y:685:PHE:HA	1.85	0.59
3:C:231:LEU:HB3	3:C:278:HIS:CD2	2.38	0.58
3:C:477:ASN:O	3:C:480:SER:OG	2.16	0.58
3:C:1483:LEU:O	3:C:1487:VAL:HG12	2.03	0.58
3:C:1991:PRO:HD3	3:C:2734:ARG:HE	1.67	0.58
3:C:2945:SER:HB3	3:C:2947:ILE:HG12	1.84	0.58
3:C:3819:THR:HG21	3:C:3886:ALA:HB2	1.84	0.58
1:J:115:ARG:HB2	1:J:115:ARG:CZ	2.33	0.58
2:K:342:VAL:HG22	2:K:393:VAL:HG22	1.84	0.58
2:K:464:ALA:HB1	2:K:473:LEU:HB3	1.84	0.58
3:L:573:LEU:HD11	3:L:649:PHE:HA	1.85	0.58
3:L:738:HIS:O	3:L:741:ILE:N	2.35	0.58
3:L:3747:GLU:O	3:L:3748:HIS:ND1	2.35	0.58
9:X:656:SER:HB3	9:X:685:PHE:HA	1.85	0.58
2:B:509:GLN:OE1	2:B:511:HIS:NE2	2.28	0.58
3:C:1017:ILE:HD13	3:C:1029:CYS:HB3	1.84	0.58
3:C:2246:LYS:HA	3:C:2249:LEU:HD12	1.83	0.58
3:C:3879:PRO:HB2	3:C:3882:LEU:HD21	1.84	0.58
3:L:484:HIS:NE2	3:L:488:ILE:HD11	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1367:HIS:O	3:L:1370:ARG:HG2	2.02	0.58
3:L:2164:TRP:O	3:L:2167:PRO:HD2	2.03	0.58
3:L:3452:LYS:O	3:L:3455:LYS:NZ	2.33	0.58
3:L:3879:PRO:HB2	3:L:3882:LEU:HD21	1.83	0.58
5:M:29:DA:C4	5:M:30:DC:C5	2.91	0.58
1:A:115:ARG:HB2	1:A:115:ARG:CZ	2.34	0.58
5:D:29:DA:C4	5:D:30:DC:C5	2.91	0.58
2:K:531:SER:HA	2:K:534:LYS:NZ	2.18	0.58
3:L:1184:ARG:HH22	3:L:1265:GLU:HB3	1.69	0.58
1:A:42:VAL:HB	1:A:87:PHE:CD1	2.38	0.58
2:B:531:SER:HA	2:B:534:LYS:NZ	2.18	0.58
3:C:738:HIS:O	3:C:741:ILE:N	2.35	0.58
3:C:3579:SER:HA	3:C:3736:LYS:NZ	2.18	0.58
1:J:350:PHE:HE2	2:K:461:MET:HE3	1.67	0.58
3:L:477:ASN:OD1	3:L:478:CYS:N	2.36	0.58
3:L:2999:LEU:HB3	3:L:3043:TYR:CD2	2.38	0.58
3:L:3509:ASP:OD1	3:L:3510:GLN:N	2.36	0.58
3:L:3551:ASN:O	3:L:3555:VAL:HG23	2.03	0.58
7:O:134:ILE:HG22	7:O:138:GLN:OE1	2.03	0.58
9:Y:696:ASP:OD1	9:Y:697:THR:N	2.36	0.58
3:C:479:ILE:O	3:C:482:VAL:HG12	2.03	0.58
3:C:767:GLU:HG3	3:C:846:ILE:HG13	1.85	0.58
3:C:3509:ASP:OD1	3:C:3510:GLN:N	2.36	0.58
3:C:3918:LEU:O	3:C:3920:ILE:N	2.36	0.58
3:L:1483:LEU:O	3:L:1487:VAL:HG12	2.03	0.58
3:L:2216:LEU:HD11	3:L:2249:LEU:HD22	1.86	0.58
3:L:2578:GLU:O	3:L:2784:GLN:NE2	2.37	0.58
2:B:342:VAL:HG22	2:B:393:VAL:HG22	1.85	0.58
3:C:484:HIS:NE2	3:C:488:ILE:HD11	2.18	0.58
3:C:1487:VAL:O	3:C:1491:ILE:N	2.29	0.58
3:C:1933:LEU:O	3:C:1937:ARG:HG2	2.04	0.58
3:C:2581:LEU:HD12	3:C:2783:ILE:HG13	1.83	0.58
3:L:1268:ASN:HD21	3:L:1344:PHE:HA	1.66	0.58
3:L:1297:PHE:HD1	3:L:1301:ILE:HB	1.69	0.58
5:M:22:DA:H1'	5:M:23:DG:C8	2.39	0.58
6:N:8:DC:N3	6:N:9:DT:N3	2.51	0.58
1:A:75:ILE:HG21	2:B:316:TYR:CE1	2.38	0.58
1:A:376:ILE:HD12	2:B:540:ILE:HG21	1.86	0.58
2:B:251:LEU:N	2:B:259:ILE:O	2.35	0.58
3:C:477:ASN:OD1	3:C:478:CYS:N	2.36	0.58
3:C:782:ARG:NH2	3:C:3166:ASN:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:8:DC:N3	6:E:9:DT:N3	2.51	0.58
7:F:134:ILE:HG13	7:G:134:ILE:CG1	2.32	0.58
7:G:134:ILE:CG2	7:G:138:GLN:NE2	2.56	0.58
3:L:1124:ILE:O	3:L:1127:CYS:N	2.36	0.58
3:L:1963:GLN:HG3	3:L:2125:TRP:HZ3	1.68	0.58
3:L:3161:LEU:HD11	3:L:3190:LEU:HD11	1.85	0.58
3:L:3496:ILE:HD11	3:L:3528:ALA:HB1	1.86	0.58
2:B:15:ASP:HB3	2:B:20:MET:HE1	1.86	0.58
3:C:364:ARG:HG2	3:C:364:ARG:HH11	1.69	0.58
3:C:1184:ARG:HH22	3:C:1265:GLU:HB3	1.68	0.58
3:C:2977:ASN:CG	7:F:272:ARG:NH2	2.62	0.58
5:D:14:DA:C2	5:D:15:DT:C2	2.91	0.58
3:L:1708:GLU:CD	3:L:1708:GLU:H	2.10	0.58
3:L:2977:ASN:CG	7:P:272:ARG:NH2	2.59	0.58
9:X:696:ASP:OD1	9:X:697:THR:N	2.36	0.58
1:A:345:LEU:HD21	1:A:400:TYR:HD1	1.68	0.58
2:B:131:HIS:CD2	8:I:297:GLY:HA2	2.39	0.58
3:C:75:SER:OG	3:C:77:GLU:OE1	2.17	0.58
3:C:1076:LEU:O	3:C:1079:SER:OG	2.21	0.58
3:C:2564:GLU:O	3:C:2567:SER:OG	2.15	0.58
3:C:2578:GLU:O	3:C:2784:GLN:NE2	2.36	0.58
3:C:2587:GLN:N	3:C:2777:HIS:O	2.31	0.58
1:J:42:VAL:HB	1:J:87:PHE:CD1	2.38	0.58
1:J:376:ILE:HD12	2:K:540:ILE:HG21	1.86	0.58
1:J:419:GLU:HG2	1:J:428:THR:OG1	2.04	0.58
1:J:439:PHE:HE2	2:K:485:PRO:HD2	1.69	0.58
3:L:479:ILE:O	3:L:482:VAL:HG12	2.03	0.58
3:L:1098:GLN:CB	3:L:1152:ARG:HE	2.17	0.58
3:L:4055:ASN:O	3:L:4058:VAL:N	2.37	0.58
7:O:134:ILE:CG1	7:P:134:ILE:HG13	2.32	0.58
3:C:286:LEU:HD12	3:C:319:PHE:CE1	2.39	0.58
3:C:3710:LYS:NZ	3:C:3712:LEU:HD22	2.19	0.58
7:G:31:GLY:HA3	7:G:48:SER:HA	1.86	0.58
2:K:547:GLN:HG3	2:K:548:VAL:N	2.18	0.58
3:L:333:MET:N	3:L:333:MET:SD	2.77	0.58
3:L:1237:ALA:HA	3:L:1292:LYS:HD2	1.85	0.58
3:L:1708:GLU:OE1	3:L:1708:GLU:N	2.30	0.58
3:L:3582:GLU:OE1	3:L:3582:GLU:N	2.34	0.58
3:L:3710:LYS:NZ	3:L:3712:LEU:HD22	2.19	0.58
1:A:439:PHE:HD2	2:B:484:ASN:HA	1.69	0.57
2:B:482:ILE:HD11	2:B:515:MET:CG	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3527:GLN:HG3	3:C:3700:GLU:OE1	2.04	0.57
3:C:3862:ALA:HB1	3:C:3867:THR:HG21	1.86	0.57
8:H:208:LYS:HG2	8:H:212:MET:HE1	1.86	0.57
2:K:242:ARG:NH1	5:M:7:DA:O5'	2.37	0.57
3:L:2754:GLU:HA	3:L:2757:ILE:HG22	1.85	0.57
3:L:2950:LYS:HZ2	3:L:2981:TRP:CG	2.22	0.57
3:L:3467:ARG:NH2	3:L:3471:ILE:HG13	2.19	0.57
6:N:10:DA:N7	6:N:11:DC:N4	2.52	0.57
3:C:2972:TYR:HE1	3:C:2994:TRP:HA	1.70	0.57
3:L:166:ILE:HG22	3:L:170:VAL:HG13	1.86	0.57
3:L:714:VAL:HG11	3:L:732:PHE:CE2	2.38	0.57
3:L:1970:LYS:CD	3:L:1971:PRO:HD2	2.30	0.57
3:L:2841:ASN:HD21	3:L:2872:ASP:HB2	1.68	0.57
3:L:4039:TYR:C	3:L:4043:LYS:HE3	2.30	0.57
1:A:176:HIS:CG	1:A:182:LYS:HD3	2.40	0.57
2:B:237:PHE:HB2	2:B:488:GLN:HE22	1.68	0.57
2:B:404:GLN:HG3	2:B:423:GLN:OE1	2.04	0.57
3:C:1098:GLN:CB	3:C:1152:ARG:HE	2.17	0.57
3:C:2105:HIS:CG	3:C:2106:ARG:HH12	2.22	0.57
3:C:2754:GLU:HA	3:C:2757:ILE:HG22	1.84	0.57
3:C:3784:ARG:HG3	3:C:3784:ARG:NH1	2.20	0.57
3:C:4039:TYR:C	3:C:4043:LYS:HE3	2.29	0.57
3:C:4126:PRO:HD2	3:C:4127:TRP:CE3	2.40	0.57
6:E:10:DA:H2'	6:E:11:DC:C6	2.40	0.57
3:C:1836:LEU:HD11	3:C:1883:ARG:HH21	1.69	0.57
3:C:2216:LEU:HD11	3:C:2249:LEU:HD22	1.86	0.57
3:C:2311:ARG:HD3	3:C:2312:TYR:CD1	2.39	0.57
3:C:4055:ASN:O	3:C:4058:VAL:N	2.37	0.57
3:L:286:LEU:HD12	3:L:319:PHE:CE1	2.39	0.57
3:L:767:GLU:HG3	3:L:846:ILE:HG13	1.85	0.57
3:L:1076:LEU:O	3:L:1079:SER:OG	2.21	0.57
3:L:2310:VAL:HG11	3:L:2356:MET:HE1	1.87	0.57
3:L:2311:ARG:HD3	3:L:2312:TYR:CD1	2.39	0.57
3:L:3909:ALA:HB1	3:L:3984:MET:HE3	1.86	0.57
2:B:227:PHE:O	2:B:230:SER:OG	2.16	0.57
2:B:242:ARG:NH1	5:D:7:DA:O5'	2.37	0.57
3:C:1479:VAL:HG21	3:C:1521:PHE:CE1	2.40	0.57
3:C:2280:VAL:HA	3:C:2283:ASN:ND2	2.18	0.57
3:C:2950:LYS:HZ2	3:C:2981:TRP:CG	2.22	0.57
3:C:3508:LYS:HG3	3:C:3509:ASP:H	1.70	0.57
3:C:4040:PRO:HA	3:C:4043:LYS:HG2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:22:DA:H1'	5:D:23:DG:C8	2.39	0.57
2:K:482:ILE:HD11	2:K:515:MET:CG	2.34	0.57
3:L:708:VAL:HA	3:L:740:ILE:HD11	1.87	0.57
3:L:1100:VAL:HA	3:L:1103:ALA:HB3	1.86	0.57
3:L:2977:ASN:HA	7:P:272:ARG:HH12	1.69	0.57
1:A:439:PHE:HE2	2:B:485:PRO:HD2	1.69	0.57
1:A:488:ARG:HD2	1:A:501:GLU:HB3	1.86	0.57
1:J:48:MET:HB3	1:J:59:PRO:HB2	1.86	0.57
1:J:488:ARG:HD2	1:J:501:GLU:HB3	1.86	0.57
3:L:758:LEU:HD13	3:L:976:VAL:HG21	1.86	0.57
3:L:2422:GLN:HE22	3:L:2426:HIS:CE1	2.23	0.57
3:L:3006:ALA:HA	3:L:3008:TRP:NE1	2.19	0.57
2:B:264:TYR:O	2:B:363:LYS:N	2.20	0.57
2:B:478:PRO:C	2:B:480:THR:H	2.13	0.57
3:C:128:LEU:HD11	3:C:156:PHE:CE2	2.32	0.57
3:C:3006:ALA:HA	3:C:3008:TRP:NE1	2.19	0.57
3:C:3285:HIS:NE2	3:C:3333:THR:OG1	2.28	0.57
7:G:116:VAL:HG12	7:G:117:GLU:H	1.70	0.57
1:J:203:MET:N	1:J:203:MET:SD	2.69	0.57
2:K:404:GLN:HG3	2:K:423:GLN:OE1	2.04	0.57
3:L:1933:LEU:O	3:L:1937:ARG:HG2	2.04	0.57
3:L:3856:MET:HE1	3:L:4071:ALA:HB1	1.87	0.57
5:M:28:DC:C2	5:M:29:DA:C8	2.93	0.57
1:A:48:MET:HB3	1:A:59:PRO:HB2	1.86	0.57
1:A:126:GLN:O	1:A:130:ARG:HG3	2.05	0.57
3:C:1297:PHE:HD1	3:C:1301:ILE:HB	1.69	0.57
3:C:2510:LEU:O	3:C:2518:GLN:NE2	2.38	0.57
1:J:176:HIS:CG	1:J:182:LYS:HD3	2.40	0.57
3:L:1836:LEU:HD11	3:L:1883:ARG:HH21	1.69	0.57
3:L:2851:PHE:CG	3:L:2853:PRO:HD2	2.40	0.57
1:A:263:LEU:HD12	1:A:267:ILE:HG21	1.87	0.57
2:B:404:GLN:HG2	2:B:421:TYR:OH	2.05	0.57
2:B:547:GLN:HG3	2:B:548:VAL:N	2.18	0.57
3:C:257:ARG:NH1	3:C:257:ARG:HB2	2.19	0.57
3:C:2851:PHE:CG	3:C:2853:PRO:HD2	2.40	0.57
6:E:10:DA:N7	6:E:11:DC:N4	2.52	0.57
2:K:106:ASP:OD1	2:K:107:PHE:N	2.38	0.57
3:L:2840:PHE:HA	3:L:2843:PHE:HD2	1.70	0.57
3:L:2898:LEU:HD22	3:L:3972:LEU:HD23	1.87	0.57
3:L:3469:LEU:HD13	3:L:3472:ILE:HD12	1.86	0.57
3:L:3784:ARG:HG3	3:L:3784:ARG:NH1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:4126:PRO:HD2	3:L:4127:TRP:CE3	2.40	0.57
3:C:493:LYS:NZ	3:C:495:VAL:HG22	2.20	0.57
3:C:647:TYR:O	3:C:650:SER:OG	2.20	0.57
3:C:3049:LEU:HD22	3:C:3061:LEU:HD21	1.86	0.57
3:C:3699:LEU:HB3	3:C:3719:ILE:HD12	1.87	0.57
3:C:3872:ARG:NH1	3:C:4114:PRO:HB3	2.20	0.57
5:D:28:DC:C2	5:D:29:DA:C8	2.93	0.57
3:L:257:ARG:NH1	3:L:257:ARG:HB2	2.19	0.57
3:L:1172:LEU:O	3:L:1176:CYS:N	2.38	0.57
3:L:1403:MET:HE3	3:L:1463:LEU:HG	1.87	0.57
3:L:1980:ASN:OD1	3:L:1981:LEU:N	2.37	0.57
3:L:3862:ALA:HB1	3:L:3867:THR:HG21	1.86	0.57
3:L:3994:ASP:HB2	3:L:3997:LEU:HD12	1.87	0.57
1:A:113:ALA:O	1:A:115:ARG:N	2.38	0.56
1:A:173:ASP:OD2	1:A:212:ASP:N	2.38	0.56
1:A:419:GLU:HG2	1:A:428:THR:OG1	2.04	0.56
2:B:531:SER:HA	2:B:534:LYS:HZ3	1.69	0.56
3:C:1205:ASN:HB3	3:C:1275:THR:HA	1.87	0.56
3:C:2414:GLN:O	3:C:2417:SER:OG	2.21	0.56
3:C:3966:GLN:HG2	3:C:4128:MET:HB2	1.87	0.56
5:D:7:DA:H2'	5:D:8:DA:H8	1.70	0.56
1:J:263:LEU:HD12	1:J:267:ILE:HG21	1.87	0.56
1:J:439:PHE:HD2	2:K:484:ASN:HA	1.69	0.56
3:L:1601:LEU:O	3:L:1604:SER:OG	2.18	0.56
3:L:3966:GLN:HG2	3:L:4128:MET:HB2	1.87	0.56
1:A:205:LEU:HD12	1:A:206:LYS:H	1.70	0.56
3:C:798:GLY:HA2	3:C:801:LYS:HB2	1.87	0.56
3:C:1172:LEU:O	3:C:1176:CYS:N	2.38	0.56
3:C:2422:GLN:HE22	3:C:2426:HIS:CE1	2.23	0.56
3:C:2957:LEU:HA	3:C:2960:GLU:HG2	1.87	0.56
3:C:3469:LEU:HD13	3:C:3472:ILE:HD12	1.86	0.56
1:J:113:ALA:C	1:J:115:ARG:H	2.13	0.56
2:K:404:GLN:HG2	2:K:421:TYR:OH	2.05	0.56
3:L:798:GLY:HA2	3:L:801:LYS:HB2	1.87	0.56
3:L:3031:TRP:CD1	3:L:3031:TRP:N	2.73	0.56
1:A:113:ALA:C	1:A:115:ARG:H	2.13	0.56
2:B:106:ASP:OD1	2:B:107:PHE:N	2.38	0.56
3:C:95:LYS:HD3	3:C:834:LEU:HD12	1.87	0.56
3:C:166:ILE:HG22	3:C:170:VAL:HG13	1.86	0.56
3:C:333:MET:N	3:C:333:MET:SD	2.78	0.56
3:C:374:LYS:HD2	3:C:423:TYR:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1046:PRO:HD2	3:C:1047:GLN:N	2.20	0.56
3:C:1764:GLU:O	3:C:1768:ARG:NH2	2.25	0.56
3:C:1970:LYS:CD	3:C:1971:PRO:HD2	2.30	0.56
3:C:3467:ARG:NH2	3:C:3471:ILE:HG13	2.19	0.56
3:C:3496:ILE:HD11	3:C:3528:ALA:HB1	1.86	0.56
3:C:3887:PHE:O	3:C:3890:MET:N	2.39	0.56
1:J:113:ALA:O	1:J:115:ARG:N	2.38	0.56
3:L:75:SER:OG	3:L:77:GLU:OE1	2.17	0.56
3:L:185:HIS:NE2	3:L:187:SER:OG	2.38	0.56
3:L:623:PHE:O	3:L:627:VAL:HG23	2.05	0.56
3:L:1278:ALA:O	3:L:1282:LEU:N	2.35	0.56
3:L:2564:GLU:O	3:L:2567:SER:OG	2.16	0.56
3:L:2957:LEU:HA	3:L:2960:GLU:HG2	1.87	0.56
3:L:3335:ARG:NH1	3:L:3422:GLN:OE1	2.38	0.56
3:L:3527:GLN:HG3	3:L:3700:GLU:OE1	2.04	0.56
3:L:3699:LEU:HB3	3:L:3719:ILE:HD12	1.87	0.56
7:O:130:CYS:C	7:P:134:ILE:HD11	2.23	0.56
1:A:203:MET:N	1:A:203:MET:SD	2.69	0.56
3:C:73:LEU:HG	3:C:117:LYS:HG2	1.88	0.56
3:C:623:PHE:O	3:C:627:VAL:HG23	2.05	0.56
6:E:27:DT:H2''	6:E:28:DA:C8	2.41	0.56
1:J:380:THR:O	1:J:383:SER:OG	2.20	0.56
1:J:419:GLU:HG3	1:J:427:VAL:HB	1.87	0.56
2:K:15:ASP:HB3	2:K:20:MET:HE1	1.86	0.56
3:L:493:LYS:NZ	3:L:495:VAL:HG22	2.20	0.56
3:L:2972:TYR:HE1	3:L:2994:TRP:HA	1.70	0.56
3:L:3022:GLU:OE1	3:L:3022:GLU:N	2.35	0.56
3:L:3579:SER:HA	3:L:3736:LYS:NZ	2.18	0.56
3:L:3805:TRP:CD2	10:L:4201:ADP:C2	2.94	0.56
2:B:13:CYS:HB3	2:B:134:ILE:HA	1.88	0.56
3:C:758:LEU:HD13	3:C:976:VAL:HG21	1.86	0.56
3:C:1072:ALA:O	3:C:1075:ARG:HG2	2.06	0.56
3:C:1711:ARG:HH22	3:C:1757:MET:HE2	1.71	0.56
1:J:126:GLN:O	1:J:130:ARG:HG3	2.05	0.56
3:L:1205:ASN:HB3	3:L:1275:THR:HA	1.87	0.56
3:L:1479:VAL:HG21	3:L:1521:PHE:CE1	2.40	0.56
3:L:1529:VAL:HG11	3:L:1581:GLU:OE1	2.05	0.56
3:L:1711:ARG:HH22	3:L:1757:MET:HE2	1.71	0.56
3:L:1962:TYR:HE2	3:L:2103:HIS:HD2	1.53	0.56
3:L:2105:HIS:CG	3:L:2106:ARG:HH12	2.22	0.56
3:L:3183:ILE:CD1	3:L:3238:MET:HG2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3425:ARG:NH1	3:L:3467:ARG:HH11	2.04	0.56
5:M:7:DA:H2'	5:M:8:DA:H8	1.70	0.56
7:O:116:VAL:HG12	7:O:117:GLU:H	1.70	0.56
1:A:77:SER:HA	1:A:248:ALA:O	2.06	0.56
1:A:148:TRP:CE3	1:A:189:LYS:HE3	2.41	0.56
1:A:331:LYS:O	1:A:334:THR:HG22	2.06	0.56
2:B:151:ILE:HG23	2:B:215:LEU:HD23	1.87	0.56
2:B:247:TRP:HZ2	2:B:338:LYS:HG3	1.70	0.56
3:C:1100:VAL:HA	3:C:1103:ALA:HB3	1.86	0.56
3:C:1865:THR:OG1	3:C:1866:GLN:OE1	2.24	0.56
3:C:3718:ARG:H	3:C:3743:HIS:HB2	1.71	0.56
7:F:134:ILE:HD11	7:G:130:CYS:C	2.23	0.56
3:C:1946:ASN:HD22	3:C:2096:PRO:HG2	1.71	0.56
3:C:2898:LEU:HD22	3:C:3972:LEU:HD23	1.87	0.56
3:C:3183:ILE:CD1	3:C:3238:MET:HG2	2.36	0.56
3:C:3452:LYS:O	3:C:3455:LYS:NZ	2.33	0.56
3:C:3909:ALA:HB1	3:C:3984:MET:HE3	1.86	0.56
1:J:89:GLY:N	1:J:101:ASN:O	2.38	0.56
2:K:247:TRP:HZ2	2:K:338:LYS:HG3	1.70	0.56
9:Y:669:GLY:O	9:Y:673:GLN:HG3	2.06	0.56
1:A:89:GLY:N	1:A:101:ASN:O	2.38	0.56
3:C:185:HIS:NE2	3:C:187:SER:OG	2.39	0.56
3:C:1962:TYR:HE2	3:C:2103:HIS:HD2	1.53	0.56
3:C:2310:VAL:HG11	3:C:2356:MET:HE1	1.87	0.56
3:C:2570:PRO:HG3	3:L:899:ARG:O	2.06	0.56
3:C:3805:TRP:CD2	10:C:4201:ADP:C2	2.94	0.56
3:L:374:LYS:HD2	3:L:423:TYR:HB3	1.86	0.56
3:L:1928:ALA:HB3	3:L:1931:ASN:HB2	1.87	0.56
3:L:1946:ASN:HD22	3:L:2096:PRO:HG2	1.71	0.56
6:N:10:DA:H2'	6:N:11:DC:C6	2.40	0.56
9:Y:703:GLY:HA2	9:Y:723:PRO:HG3	1.88	0.56
3:L:364:ARG:HG2	3:L:364:ARG:HH11	1.69	0.56
3:L:410:MET:HG2	3:L:442:GLN:NE2	2.21	0.56
3:L:1388:ASP:O	3:L:1392:MET:HG3	2.06	0.56
3:L:1770:GLN:OE1	3:L:1770:GLN:N	2.33	0.56
3:L:3913:ILE:HB	3:L:3984:MET:SD	2.46	0.56
3:C:708:VAL:HA	3:C:740:ILE:HD11	1.87	0.56
3:C:1278:ALA:O	3:C:1282:LEU:N	2.35	0.56
3:C:1403:MET:HE3	3:C:1463:LEU:HG	1.87	0.56
3:C:1928:ALA:HB3	3:C:1931:ASN:HB2	1.87	0.56
3:C:2602:LEU:CB	3:C:2605:MET:HE1	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2894:GLU:HG3	3:C:3973:PRO:CG	2.36	0.56
5:D:7:DA:H2'	5:D:8:DA:C8	2.41	0.56
8:H:18:LEU:HD13	8:H:96:SER:HA	1.87	0.56
1:J:71:TYR:OH	1:J:115:ARG:HD2	2.06	0.56
1:J:455:THR:HG1	1:J:458:GLN:CD	2.10	0.56
2:K:478:PRO:C	2:K:480:THR:H	2.13	0.56
3:L:1046:PRO:HD2	3:L:1047:GLN:N	2.20	0.56
3:L:1132:ASP:O	3:L:1135:CYS:HB3	2.06	0.56
3:L:1755:SER:HB3	3:L:1758:LEU:HB2	1.88	0.56
3:L:2414:GLN:O	3:L:2417:SER:OG	2.21	0.56
3:L:2464:HIS:HD1	3:L:2466:SER:H	1.54	0.56
3:L:3918:LEU:O	3:L:3920:ILE:HG13	2.06	0.56
1:A:419:GLU:HG3	1:A:427:VAL:HB	1.87	0.55
3:C:714:VAL:HG11	3:C:732:PHE:CE2	2.38	0.55
3:C:1529:VAL:HG11	3:C:1581:GLU:OE1	2.05	0.55
3:C:1980:ASN:OD1	3:C:1981:LEU:N	2.37	0.55
3:C:2205:VAL:H	3:C:2208:ASP:HB3	1.72	0.55
3:C:3123:GLN:O	3:C:3127:THR:HG23	2.06	0.55
3:C:3425:ARG:NH1	3:C:3467:ARG:HH11	2.04	0.55
2:K:81:ARG:NH2	2:K:85:LEU:O	2.39	0.55
3:L:858:MET:O	3:L:861:SER:N	2.39	0.55
3:L:2512:ASP:OD1	3:L:2513:GLU:N	2.39	0.55
3:L:3828:TYR:OH	3:L:3878:VAL:HG13	2.06	0.55
3:L:3918:LEU:O	3:L:3920:ILE:N	2.36	0.55
3:L:3925:LEU:HD21	3:L:3962:ARG:CZ	2.37	0.55
3:C:2155:GLU:HA	3:C:2158:ARG:HG3	1.89	0.55
3:C:3335:ARG:NH1	3:C:3422:GLN:OE1	2.38	0.55
3:C:3856:MET:HE1	3:C:4071:ALA:HB1	1.87	0.55
3:L:73:LEU:HG	3:L:117:LYS:HG2	1.88	0.55
3:L:2280:VAL:HA	3:L:2283:ASN:ND2	2.18	0.55
3:L:2305:ASN:O	3:L:2308:SER:OG	2.22	0.55
3:L:3705:TYR:HE1	3:L:3716:HIS:CD2	2.25	0.55
9:Y:663:GLU:HG2	9:Y:698:TYR:HD1	1.72	0.55
3:C:858:MET:O	3:C:861:SER:N	2.39	0.55
3:C:1184:ARG:NH2	3:C:1265:GLU:HB3	2.22	0.55
3:C:1708:GLU:OE1	3:C:1708:GLU:N	2.30	0.55
3:C:3153:SER:OG	3:C:3154:GLN:N	2.35	0.55
3:C:3190:LEU:HD12	3:C:3231:ILE:HD12	1.88	0.55
1:J:148:TRP:CE3	1:J:189:LYS:HE3	2.41	0.55
3:L:678:LYS:NZ	3:L:735:SER:O	2.31	0.55
3:L:1865:THR:OG1	3:L:1866:GLN:OE1	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1967:PHE:CD2	3:L:2122:LEU:HG	2.41	0.55
3:L:2155:GLU:HA	3:L:2158:ARG:HG3	1.89	0.55
3:L:2510:LEU:O	3:L:2518:GLN:NE2	2.38	0.55
3:C:1770:GLN:OE1	3:C:1770:GLN:N	2.33	0.55
3:C:3828:TYR:OH	3:C:3878:VAL:HG13	2.06	0.55
1:J:77:SER:HA	1:J:248:ALA:O	2.06	0.55
3:L:962:TYR:HA	3:L:965:THR:HG22	1.87	0.55
3:L:1072:ALA:O	3:L:1075:ARG:HG2	2.06	0.55
3:L:3049:LEU:HD22	3:L:3061:LEU:HD21	1.86	0.55
7:O:31:GLY:HA3	7:O:48:SER:HA	1.87	0.55
3:C:1356:TRP:CD1	3:C:1359:LEU:HD23	2.41	0.55
3:C:1458:LEU:O	3:C:1462:GLY:N	2.40	0.55
3:C:1681:ASP:HB3	3:C:1684:LEU:HD22	1.89	0.55
3:C:3751:LEU:HD12	3:C:3805:TRP:CZ3	2.41	0.55
3:C:3994:ASP:HB2	3:C:3997:LEU:HD12	1.87	0.55
3:C:4126:PRO:HD2	3:C:4127:TRP:CZ3	2.42	0.55
1:J:35:ARG:HD3	1:J:80:ARG:CG	2.37	0.55
3:L:95:LYS:HD3	3:L:834:LEU:HD12	1.87	0.55
3:L:532:ARG:HH11	3:L:532:ARG:HG3	1.71	0.55
3:L:668:LYS:O	3:L:671:SER:OG	2.17	0.55
3:L:1356:TRP:CD1	3:L:1359:LEU:HD23	2.42	0.55
3:L:1766:LEU:HD21	3:L:1778:PHE:CD1	2.42	0.55
3:L:1834:ASP:OD1	3:L:1837:ARG:NH2	2.27	0.55
3:L:2971:GLN:O	3:L:2974:GLU:HG2	2.07	0.55
3:L:3123:GLN:O	3:L:3127:THR:HG23	2.07	0.55
3:L:3446:VAL:HG11	3:L:3471:ILE:HD13	1.88	0.55
3:L:3508:LYS:HG3	3:L:3509:ASP:H	1.70	0.55
3:L:3751:LEU:HD12	3:L:3805:TRP:CZ3	2.41	0.55
3:L:3872:ARG:NH1	3:L:4114:PRO:HB3	2.20	0.55
5:M:7:DA:H2'	5:M:8:DA:C8	2.41	0.55
9:X:663:GLU:HG2	9:X:698:TYR:HD1	1.72	0.55
3:C:410:MET:HG2	3:C:442:GLN:NE2	2.21	0.55
3:C:962:TYR:HA	3:C:965:THR:HG22	1.88	0.55
3:C:1388:ASP:O	3:C:1392:MET:HG3	2.06	0.55
3:C:1411:TYR:CE1	3:C:1414:ILE:HD13	2.42	0.55
3:C:3925:LEU:HD21	3:C:3962:ARG:CZ	2.36	0.55
7:F:117:GLU:H	7:F:117:GLU:CD	2.15	0.55
2:K:13:CYS:HB3	2:K:134:ILE:HA	1.87	0.55
2:K:130:ARG:NH2	2:K:157:CYS:O	2.39	0.55
3:L:2408:MET:N	3:L:2408:MET:SD	2.79	0.55
3:L:3718:ARG:H	3:L:3743:HIS:HB2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3022:GLU:OE1	3:C:3022:GLU:N	2.35	0.55
1:J:32:TYR:CE2	1:J:254:ARG:HD3	2.41	0.55
2:K:56:LEU:HD13	2:K:94:ILE:HD11	1.89	0.55
3:L:647:TYR:O	3:L:650:SER:OG	2.20	0.55
3:L:913:ARG:CZ	3:L:2803:ILE:HG21	2.37	0.55
3:L:1184:ARG:NH2	3:L:1265:GLU:HB3	2.22	0.55
3:L:1696:LEU:HB2	3:L:1749:ALA:HB1	1.88	0.55
3:L:2295:GLN:CD	3:L:2295:GLN:H	2.15	0.55
3:L:3718:ARG:NH2	3:L:3743:HIS:HD2	2.05	0.55
3:C:334:HIS:C	3:C:336:ASN:H	2.15	0.55
3:C:532:ARG:HG3	3:C:532:ARG:HH11	1.71	0.55
3:C:913:ARG:CZ	3:C:2803:ILE:HG21	2.37	0.55
3:C:1132:ASP:O	3:C:1135:CYS:HB3	2.06	0.55
3:C:1369:MET:HA	3:C:1369:MET:HE3	1.89	0.55
3:C:1813:SER:HB2	3:C:1868:THR:HG21	1.89	0.55
3:C:1967:PHE:CD2	3:C:2122:LEU:HG	2.41	0.55
3:C:2464:HIS:HD1	3:C:2466:SER:H	1.54	0.55
8:I:10:MET:SD	8:I:223:THR:HA	2.47	0.55
2:K:151:ILE:HG23	2:K:215:LEU:HD23	1.87	0.55
3:L:1848:ILE:HG22	3:L:1852:LYS:HE3	1.89	0.55
3:L:2894:GLU:HG3	3:L:3973:PRO:CG	2.36	0.55
3:L:3764:VAL:HA	3:L:3767:LEU:HD12	1.89	0.55
7:P:117:GLU:CD	7:P:117:GLU:H	2.14	0.55
1:A:32:TYR:CE2	1:A:254:ARG:HD3	2.41	0.55
2:B:56:LEU:HD13	2:B:94:ILE:HD11	1.89	0.55
3:C:738:HIS:HB3	3:C:775:GLU:OE2	2.07	0.55
3:C:2503:LYS:NZ	3:C:2544:SER:O	2.34	0.55
3:C:2512:ASP:OD1	3:C:2513:GLU:N	2.39	0.55
3:C:2840:PHE:HA	3:C:2843:PHE:HD2	1.70	0.55
3:C:2977:ASN:HA	7:F:272:ARG:HH12	1.71	0.55
3:C:3424:LEU:HD11	3:C:3439:LEU:HD21	1.88	0.55
3:C:3913:ILE:HB	3:C:3984:MET:SD	2.46	0.55
3:C:3997:LEU:O	3:C:4001:THR:OG1	2.19	0.55
1:J:331:LYS:O	1:J:334:THR:HG22	2.06	0.55
1:J:398:CYS:SG	1:J:399:ARG:N	2.79	0.55
3:L:2205:VAL:H	3:L:2208:ASP:HB3	1.72	0.55
3:L:3236:PHE:CZ	3:L:3268:THR:HG21	2.42	0.55
3:L:3731:SER:H	3:L:3734:ARG:HE	1.54	0.55
3:L:3781:CYS:SG	3:L:3786:LEU:HD12	2.47	0.55
3:L:4126:PRO:HD2	3:L:4127:TRP:CZ3	2.42	0.55
1:A:53:SER:OG	1:A:54:GLU:OE1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:629:PHE:O	3:C:632:GLU:N	2.39	0.55
3:C:2408:MET:SD	3:C:2408:MET:N	2.80	0.55
3:C:3918:LEU:O	3:C:3920:ILE:HG13	2.07	0.55
8:H:299:PHE:CD1	2:K:234:LEU:HD21	2.40	0.55
1:J:95:ASN:HD21	1:J:99:PHE:HB2	1.72	0.55
1:J:312:LEU:HD11	3:L:157:TYR:CE1	2.42	0.55
3:L:1241:LEU:HB2	3:L:1292:LYS:NZ	2.19	0.55
3:L:1411:TYR:CE1	3:L:1414:ILE:HD13	2.41	0.55
3:L:1813:SER:HB2	3:L:1868:THR:HG21	1.89	0.55
3:L:1877:LEU:HD12	3:L:1878:ASP:N	2.22	0.55
3:L:2503:LYS:NZ	3:L:2544:SER:O	2.34	0.55
3:L:2567:SER:HA	3:L:2572:TYR:CD2	2.42	0.55
3:L:3887:PHE:O	3:L:3890:MET:N	2.39	0.55
3:C:1048:GLN:O	3:C:1053:PRO:HD3	2.07	0.54
3:C:1696:LEU:HB2	3:C:1749:ALA:HB1	1.88	0.54
3:C:2454:LEU:O	3:C:2457:PRO:HD2	2.07	0.54
7:F:106:PHE:CZ	8:H:112:LEU:HD21	2.43	0.54
2:K:391:ALA:HB3	2:K:408:ALA:HB3	1.88	0.54
3:L:629:PHE:O	3:L:632:GLU:N	2.39	0.54
3:L:1640:GLU:HA	3:L:1643:MET:HE2	1.88	0.54
3:L:3190:LEU:HD12	3:L:3231:ILE:HD12	1.88	0.54
1:A:108:LEU:HD11	1:A:154:PHE:CD1	2.42	0.54
2:B:391:ALA:HB3	2:B:408:ALA:HB3	1.88	0.54
2:B:411:HIS:HB3	2:B:418:CYS:HB3	1.90	0.54
3:C:732:PHE:O	3:C:735:SER:OG	2.20	0.54
3:C:939:MET:HE1	3:C:2782:ASP:N	2.21	0.54
3:C:1477:HIS:O	3:C:1481:THR:OG1	2.16	0.54
3:C:1755:SER:HB3	3:C:1758:LEU:HB2	1.88	0.54
3:C:2119:PRO:O	3:C:2123:PRO:HD2	2.08	0.54
3:C:2954:GLN:HE21	3:C:2958:LEU:HD21	1.72	0.54
3:C:3446:VAL:HG11	3:C:3471:ILE:HD13	1.89	0.54
1:J:273:ILE:HD12	1:J:434:LEU:HD11	1.89	0.54
2:K:411:HIS:HB3	2:K:418:CYS:HB3	1.90	0.54
2:K:729:LEU:HD21	3:L:1965:PHE:HB2	1.89	0.54
3:L:450:SER:O	3:L:454:GLN:N	2.38	0.54
3:L:738:HIS:CG	3:L:739:ASN:N	2.76	0.54
3:L:1048:GLN:O	3:L:1053:PRO:HD3	2.08	0.54
3:L:3008:TRP:CE3	3:L:3050:LYS:HB3	2.42	0.54
3:L:3909:ALA:O	3:L:3984:MET:HE1	2.08	0.54
1:A:71:TYR:OH	1:A:115:ARG:HD2	2.07	0.54
1:A:312:LEU:HD11	3:C:157:TYR:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:81:ARG:NH2	2:B:85:LEU:O	2.39	0.54
3:C:99:LYS:C	3:C:101:ALA:H	2.15	0.54
3:C:1877:LEU:HD12	3:C:1878:ASP:N	2.22	0.54
3:C:3031:TRP:N	3:C:3031:TRP:CD1	2.73	0.54
3:C:3236:PHE:CZ	3:C:3268:THR:HG21	2.42	0.54
3:C:3717:VAL:HG23	3:C:3743:HIS:HB3	1.89	0.54
3:C:3718:ARG:NH2	3:C:3743:HIS:HD2	2.05	0.54
3:C:4056:PRO:HA	3:C:4059:ILE:HG22	1.89	0.54
1:J:173:ASP:OD2	1:J:212:ASP:N	2.38	0.54
3:L:3424:LEU:HD11	3:L:3439:LEU:HD21	1.89	0.54
9:X:669:GLY:O	9:X:673:GLN:HG3	2.06	0.54
1:A:398:CYS:SG	1:A:399:ARG:N	2.79	0.54
2:B:495:LEU:O	2:B:498:ALA:N	2.37	0.54
3:C:1235:ILE:HG12	3:C:1263:ALA:HB2	1.89	0.54
3:C:1529:VAL:HG11	3:C:1581:GLU:CD	2.33	0.54
3:C:1640:GLU:HA	3:C:1643:MET:HE2	1.88	0.54
3:C:1816:ARG:HA	3:C:1819:PHE:HD2	1.73	0.54
3:C:2201:THR:N	3:C:2202:PRO:HD3	2.23	0.54
3:C:2733:MET:H	5:D:31:DT:H3	1.55	0.54
3:C:3478:GLU:N	3:C:3478:GLU:OE2	2.41	0.54
3:C:3909:ALA:O	3:C:3984:MET:HE1	2.07	0.54
1:J:90:THR:HG21	1:J:103:TYR:HB2	1.89	0.54
1:J:205:LEU:HD12	1:J:206:LYS:H	1.70	0.54
2:K:364:VAL:N	2:K:419:LEU:O	2.33	0.54
3:L:1369:MET:HA	3:L:1369:MET:HE3	1.89	0.54
3:L:1681:ASP:HB3	3:L:1684:LEU:HD22	1.89	0.54
3:L:2350:LYS:O	3:L:2353:GLN:N	2.41	0.54
3:L:3285:HIS:NE2	3:L:3333:THR:OG1	2.28	0.54
3:L:3498:TRP:CZ3	3:L:3501:HIS:HB3	2.42	0.54
3:C:3498:TRP:CZ3	3:C:3501:HIS:HB3	2.42	0.54
3:C:3573:ASN:ND2	3:C:3577:GLN:OE1	2.40	0.54
3:C:3705:TYR:HE1	3:C:3716:HIS:CD2	2.25	0.54
3:L:170:VAL:O	3:L:174:VAL:HG23	2.07	0.54
3:L:1529:VAL:HG11	3:L:1581:GLU:CD	2.33	0.54
3:L:2947:ILE:O	3:L:2947:ILE:HG13	2.07	0.54
6:N:27:DT:H2"	6:N:28:DA:C8	2.41	0.54
1:A:95:ASN:HD21	1:A:99:PHE:HB2	1.72	0.54
2:B:129:LYS:HZ3	2:B:131:HIS:CD2	2.25	0.54
3:C:170:VAL:O	3:C:174:VAL:HG23	2.07	0.54
3:C:1766:LEU:HD21	3:C:1778:PHE:CD1	2.42	0.54
3:C:2136:PRO:HA	3:C:2143:ARG:HH22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2567:SER:HA	3:C:2572:TYR:CD2	2.42	0.54
3:C:3008:TRP:CE3	3:C:3050:LYS:HB3	2.42	0.54
3:L:738:HIS:HB3	3:L:775:GLU:OE2	2.07	0.54
3:L:880:MET:HG3	3:L:3934:THR:OG1	2.07	0.54
3:L:1102:GLU:OE2	3:L:1106:ILE:HD11	2.08	0.54
3:L:1240:THR:HG21	3:L:1256:TRP:CD1	2.43	0.54
3:L:1816:ARG:HA	3:L:1819:PHE:HD2	1.73	0.54
3:L:2119:PRO:O	3:L:2123:PRO:HD2	2.08	0.54
3:L:2237:ILE:HD13	3:L:2728:LEU:HD23	1.89	0.54
1:A:90:THR:HG21	1:A:103:TYR:HB2	1.89	0.54
2:B:130:ARG:NH2	2:B:157:CYS:O	2.39	0.54
3:C:450:SER:O	3:C:454:GLN:N	2.38	0.54
3:C:942:LEU:HD11	3:C:991:LEU:HD21	1.90	0.54
3:C:2277:LEU:HA	3:C:2280:VAL:HG12	1.89	0.54
3:C:3764:VAL:HA	3:C:3767:LEU:HD12	1.89	0.54
1:J:108:LEU:HD11	1:J:154:PHE:CD1	2.42	0.54
2:K:197:ILE:O	2:K:202:LYS:NZ	2.41	0.54
2:K:408:ALA:HB1	2:K:419:LEU:HD21	1.89	0.54
2:K:531:SER:HA	2:K:534:LYS:HZ3	1.72	0.54
3:L:443:ILE:HD11	3:L:461:ILE:HG12	1.89	0.54
3:L:1458:LEU:O	3:L:1462:GLY:N	2.40	0.54
3:L:3478:GLU:N	3:L:3478:GLU:OE2	2.41	0.54
3:L:3573:ASN:ND2	3:L:3577:GLN:OE1	2.40	0.54
3:C:443:ILE:HD11	3:C:461:ILE:HG12	1.89	0.54
3:C:1757:MET:HA	3:C:1757:MET:HE3	1.90	0.54
3:C:2417:SER:OG	3:C:2418:LYS:NZ	2.32	0.54
3:C:3731:SER:H	3:C:3734:ARG:HE	1.55	0.54
5:D:14:DA:N6	6:E:17:DT:H3	2.06	0.54
3:L:778:ILE:HG23	3:L:779:TYR:CD1	2.43	0.54
3:L:3685:PRO:O	3:L:3688:SER:OG	2.18	0.54
2:B:12:LEU:HB2	2:B:56:LEU:HD23	1.90	0.54
2:B:408:ALA:HB1	2:B:419:LEU:HD21	1.89	0.54
3:C:778:ILE:HG23	3:C:779:TYR:CD1	2.43	0.54
3:C:1365:ASN:O	3:C:1368:LEU:HG	2.08	0.54
3:C:1857:LYS:HE3	3:C:1866:GLN:NE2	2.20	0.54
3:C:1936:ARG:HE	3:C:1939:LEU:HD21	1.73	0.54
3:C:2285:LEU:HD23	3:C:2329:TYR:HA	1.90	0.54
3:C:2474:TYR:O	3:C:2478:MET:HG3	2.08	0.54
3:C:2971:GLN:O	3:C:2974:GLU:HG2	2.07	0.54
3:C:3781:CYS:SG	3:C:3786:LEU:HD12	2.47	0.54
1:J:521:LEU:HA	1:J:524:GLU:OE1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:227:PHE:O	2:K:230:SER:OG	2.16	0.54
2:K:245:ILE:HD11	5:M:7:DA:O3'	2.08	0.54
3:L:16:GLN:CD	3:L:63:PHE:HB2	2.33	0.54
3:L:852:ARG:O	3:L:855:VAL:HG12	2.08	0.54
3:L:2136:PRO:HA	3:L:2143:ARG:HH22	1.73	0.54
3:L:2602:LEU:CB	3:L:2605:MET:HE1	2.32	0.54
1:A:86:VAL:HG23	1:A:104:VAL:HA	1.90	0.54
1:A:236:SER:O	1:A:239:LEU:HG	2.08	0.54
3:C:950:GLU:HB2	3:C:957:PRO:HG3	1.90	0.54
3:C:2220:MET:HG2	3:C:2276:LEU:HD11	1.90	0.54
3:C:2295:GLN:CD	3:C:2295:GLN:H	2.15	0.54
3:C:3451:LEU:HD21	3:C:3468:LEU:HD22	1.89	0.54
3:C:4074:PHE:HA	3:C:4077:TYR:HB2	1.89	0.54
1:J:236:SER:O	1:J:239:LEU:HG	2.08	0.54
3:L:943:GLY:O	3:L:946:THR:HG22	2.08	0.54
3:L:985:GLU:HG3	3:L:1028:PHE:HE1	1.73	0.54
3:L:1225:GLU:HG3	3:L:1235:ILE:HB	1.90	0.54
3:L:1305:ASP:HB2	3:L:1334:LYS:HE3	1.90	0.54
3:L:1862:THR:O	3:L:1865:THR:OG1	2.24	0.54
3:L:3451:LEU:HD21	3:L:3468:LEU:HD22	1.89	0.54
1:A:521:LEU:HA	1:A:524:GLU:OE1	2.08	0.53
3:C:16:GLN:CD	3:C:63:PHE:HB2	2.33	0.53
3:C:880:MET:HG3	3:C:3934:THR:OG1	2.07	0.53
3:C:971:ARG:HA	3:C:1025:LEU:HD13	1.90	0.53
3:C:1195:VAL:HA	3:C:1198:LEU:HD23	1.90	0.53
3:C:1305:ASP:HB2	3:C:1334:LYS:HE3	1.90	0.53
3:C:1538:LEU:HG	3:C:1555:HIS:HB2	1.91	0.53
3:C:2506:LEU:HD22	3:C:2525:TRP:NE1	2.23	0.53
3:C:3499:ILE:HA	3:C:3502:MET:SD	2.48	0.53
1:J:254:ARG:HB3	1:J:254:ARG:CZ	2.37	0.53
1:J:275:ASN:OD1	1:J:276:LEU:N	2.41	0.53
3:L:1235:ILE:HG12	3:L:1263:ALA:HB2	1.89	0.53
3:L:1936:ARG:HE	3:L:1939:LEU:HD21	1.73	0.53
3:L:2277:LEU:HA	3:L:2280:VAL:HG12	1.89	0.53
3:L:2474:TYR:O	3:L:2478:MET:HG3	2.08	0.53
3:L:3784:ARG:HG3	3:L:3784:ARG:HH11	1.72	0.53
7:O:134:ILE:HG23	7:O:138:GLN:NE2	2.06	0.53
1:A:275:ASN:OD1	1:A:276:LEU:N	2.41	0.53
2:B:245:ILE:HD11	5:D:7:DA:O3'	2.08	0.53
2:B:356:PHE:HD2	2:B:422:VAL:HG11	1.73	0.53
2:B:477:PHE:HD1	2:B:519:PRO:HD3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:417:VAL:HA	3:C:420:VAL:HG22	1.90	0.53
3:C:789:TYR:CD2	3:C:866:ILE:HG23	2.43	0.53
3:C:1848:ILE:HG22	3:C:1852:LYS:HE3	1.89	0.53
3:C:3041:LEU:O	3:C:3044:MET:N	2.42	0.53
3:L:910:PHE:CZ	3:L:2808:LEU:HA	2.44	0.53
3:L:1048:GLN:HB2	3:L:1052:SER:HB3	1.90	0.53
3:L:1195:VAL:HA	3:L:1198:LEU:HD23	1.91	0.53
3:L:1382:ILE:O	3:L:1384:PHE:N	2.40	0.53
3:L:3893:SER:O	3:L:3895:GLU:N	2.41	0.53
1:A:254:ARG:HB3	1:A:254:ARG:CZ	2.37	0.53
2:B:729:LEU:HD21	3:C:1965:PHE:HB2	1.89	0.53
3:C:899:ARG:O	3:L:2570:PRO:HG3	2.08	0.53
3:C:3528:ALA:HB2	3:C:3705:TYR:CD2	2.43	0.53
6:E:1:DG:N2	6:E:2:DT:C2	2.77	0.53
2:K:165:LEU:O	2:K:226:SER:HA	2.09	0.53
2:K:437:SER:OG	2:K:438:LEU:N	2.41	0.53
3:L:1963:GLN:HE22	3:L:1968:SER:HB3	1.72	0.53
3:L:3815:LEU:HD13	3:L:3930:VAL:HG11	1.90	0.53
3:L:3953:LEU:HD13	3:L:4068:HIS:CG	2.44	0.53
1:A:262:LYS:HB3	1:A:268:VAL:HG12	1.90	0.53
3:C:985:GLU:HG3	3:C:1028:PHE:HE1	1.73	0.53
3:C:1240:THR:HG21	3:C:1256:TRP:CD1	2.43	0.53
3:C:1338:VAL:HG22	3:C:1342:MET:HE2	1.90	0.53
3:C:1838:GLU:O	3:C:1841:SER:OG	2.27	0.53
3:C:2237:ILE:HD13	3:C:2728:LEU:HD23	1.89	0.53
3:C:2848:PHE:HB2	3:C:3077:ILE:CD1	2.38	0.53
3:C:3445:LEU:O	3:C:3449:LYS:HB2	2.09	0.53
3:L:99:LYS:C	3:L:101:ALA:H	2.15	0.53
3:L:2119:PRO:O	3:L:2122:LEU:N	2.39	0.53
3:L:2201:THR:N	3:L:2202:PRO:HD3	2.23	0.53
3:L:2454:LEU:O	3:L:2457:PRO:HD2	2.07	0.53
3:L:2999:LEU:HB3	3:L:3043:TYR:HD2	1.73	0.53
1:A:171:ASN:O	1:A:173:ASP:N	2.42	0.53
3:C:738:HIS:CG	3:C:739:ASN:N	2.76	0.53
3:C:1102:GLU:OE2	3:C:1106:ILE:HD11	2.08	0.53
3:C:1482:GLU:O	3:C:1486:LEU:HB2	2.09	0.53
3:C:3815:LEU:HD13	3:C:3930:VAL:HG11	1.90	0.53
3:C:3953:LEU:HD13	3:C:4068:HIS:CG	2.44	0.53
2:K:477:PHE:HD1	2:K:519:PRO:HD3	1.72	0.53
3:L:950:GLU:HB2	3:L:957:PRO:HG3	1.90	0.53
3:L:971:ARG:HA	3:L:1025:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2506:LEU:HD22	3:L:2525:TRP:NE1	2.23	0.53
3:L:3294:SER:O	3:L:3297:VAL:HG12	2.08	0.53
3:L:3499:ILE:HA	3:L:3502:MET:SD	2.48	0.53
3:L:3710:LYS:HZ1	3:L:3712:LEU:HD22	1.73	0.53
3:L:4089:ILE:HG12	3:L:4109:ASP:OD2	2.09	0.53
1:A:95:ASN:OD1	1:A:97:VAL:N	2.42	0.53
3:C:709:LYS:HG2	3:C:1388:ASP:HB2	1.91	0.53
3:C:1382:ILE:O	3:C:1384:PHE:N	2.41	0.53
3:C:3294:SER:O	3:C:3297:VAL:HG12	2.08	0.53
3:C:3784:ARG:HG3	3:C:3784:ARG:HH11	1.72	0.53
3:C:3875:GLU:HG2	3:C:3965:ARG:HD3	1.90	0.53
6:E:21:DA:H2''	6:E:22:DG:C8	2.44	0.53
1:J:262:LYS:HB3	1:J:268:VAL:HG12	1.91	0.53
2:K:82:HIS:HB2	2:K:84:MET:HE1	1.91	0.53
3:L:334:HIS:C	3:L:336:ASN:H	2.15	0.53
3:L:789:TYR:CD2	3:L:866:ILE:HG23	2.43	0.53
3:L:1122:GLY:C	3:L:1124:ILE:H	2.17	0.53
3:L:1337:VAL:O	3:L:1341:ILE:HG23	2.08	0.53
3:L:1338:VAL:HG22	3:L:1342:MET:HE2	1.90	0.53
3:L:1482:GLU:O	3:L:1486:LEU:HB2	2.09	0.53
3:L:2859:GLN:O	3:L:2862:SER:OG	2.24	0.53
3:L:2954:GLN:HE21	3:L:2958:LEU:HD21	1.72	0.53
3:L:3528:ALA:HB2	3:L:3705:TYR:CD2	2.44	0.53
3:L:4054:ALA:O	3:L:4103:GLN:NE2	2.41	0.53
3:L:4074:PHE:HA	3:L:4077:TYR:HB2	1.90	0.53
6:N:23:DT:C6	6:N:23:DT:H5'	2.43	0.53
1:A:214:SER:HA	1:A:218:ARG:HB2	1.90	0.53
3:C:1749:ALA:O	3:C:1753:SER:OG	2.19	0.53
3:C:2350:LYS:O	3:C:2353:GLN:N	2.41	0.53
3:C:3585:PHE:HA	3:C:3588:TRP:NE1	2.23	0.53
2:K:356:PHE:HD2	2:K:422:VAL:HG11	1.73	0.53
3:L:941:MET:O	3:L:958:MET:HE1	2.09	0.53
3:L:1344:PHE:CE1	3:L:1348:LEU:HD13	2.44	0.53
3:L:1857:LYS:HE3	3:L:1866:GLN:NE2	2.20	0.53
3:L:1987:ARG:HA	3:L:1987:ARG:HE	1.74	0.53
3:L:2584:CYS:SG	3:L:2780:LEU:HB2	2.49	0.53
3:L:3250:ASN:HA	3:L:3252:PHE:CE1	2.44	0.53
3:L:3467:ARG:CZ	3:L:3471:ILE:HG13	2.39	0.53
9:X:711:ASN:O	9:X:714:LEU:N	2.42	0.53
2:B:197:ILE:O	2:B:202:LYS:NZ	2.41	0.53
3:C:264:ARG:NH1	6:E:9:DT:H5'	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1122:GLY:C	3:C:1124:ILE:H	2.17	0.53
3:C:1225:GLU:HG3	3:C:1235:ILE:HB	1.90	0.53
3:C:1333:SER:O	3:C:1336:THR:OG1	2.19	0.53
3:C:1634:ALA:HB3	3:C:1637:SER:HB2	1.91	0.53
3:C:1892:LYS:O	3:C:1908:GLY:N	2.27	0.53
3:C:1991:PRO:HD3	3:C:2734:ARG:NE	2.24	0.53
3:C:3827:ALA:HA	3:C:3831:ASP:HB3	1.91	0.53
6:E:23:DT:C6	6:E:23:DT:H5'	2.43	0.53
1:J:86:VAL:HG23	1:J:104:VAL:HA	1.90	0.53
1:J:294:GLU:OE2	2:K:298:ASN:ND2	2.41	0.53
3:L:333:MET:HB3	3:L:337:LYS:HZ3	1.74	0.53
3:L:417:VAL:HA	3:L:420:VAL:HG22	1.89	0.53
3:L:942:LEU:HD11	3:L:991:LEU:HD21	1.90	0.53
3:L:3585:PHE:HA	3:L:3588:TRP:NE1	2.23	0.53
5:M:14:DA:N6	6:N:17:DT:H3	2.06	0.53
1:A:330:GLU:HB2	1:A:333:GLU:HG2	1.90	0.53
3:C:196:LEU:HD22	3:C:230:LEU:HD22	1.90	0.53
3:C:275:PHE:CZ	3:C:286:LEU:HD11	2.43	0.53
3:C:852:ARG:O	3:C:855:VAL:HG12	2.08	0.53
3:C:943:GLY:O	3:C:946:THR:HG22	2.08	0.53
3:C:1048:GLN:HB2	3:C:1052:SER:HB3	1.90	0.53
3:C:1256:TRP:CD1	3:C:1259:LEU:HD23	2.44	0.53
3:C:1911:LEU:O	3:C:1914:THR:OG1	2.10	0.53
3:C:2859:GLN:O	3:C:2862:SER:OG	2.24	0.53
3:C:3511:ALA:O	3:C:3515:GLN:HG2	2.08	0.53
3:C:3564:GLN:O	3:C:3697:ASN:ND2	2.42	0.53
3:C:4054:ALA:O	3:C:4103:GLN:NE2	2.41	0.53
1:J:95:ASN:OD1	1:J:97:VAL:N	2.42	0.53
1:J:171:ASN:O	1:J:173:ASP:N	2.42	0.53
3:L:1125:GLN:OE1	3:L:1125:GLN:N	2.39	0.53
3:L:2220:MET:HG2	3:L:2276:LEU:HD11	1.90	0.53
3:L:2733:MET:H	5:M:31:DT:H3	1.55	0.53
3:L:3827:ALA:HA	3:L:3831:ASP:HB3	1.91	0.53
1:A:327:ILE:O	1:A:328:ILE:HD13	2.09	0.53
1:A:352:PRO:HG3	2:B:473:LEU:HD22	1.91	0.53
2:B:82:HIS:HB2	2:B:84:MET:HE1	1.91	0.53
3:C:2999:LEU:HB3	3:C:3043:TYR:HD2	1.74	0.53
3:C:3250:ASN:HA	3:C:3252:PHE:CE1	2.44	0.53
3:C:3467:ARG:CZ	3:C:3471:ILE:HG13	2.39	0.53
8:I:10:MET:SD	8:I:223:THR:HG22	2.49	0.53
1:J:214:SER:HA	1:J:218:ARG:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3156:PRO:HD2	3:L:3157:LEU:N	2.23	0.53
3:L:3511:ALA:O	3:L:3515:GLN:HG2	2.08	0.53
3:C:910:PHE:CZ	3:C:2808:LEU:HA	2.44	0.52
3:C:3008:TRP:N	3:C:3008:TRP:CD1	2.76	0.52
8:H:12:PRO:HB3	8:H:219:MET:SD	2.48	0.52
3:L:709:LYS:HG2	3:L:1388:ASP:HB2	1.91	0.52
3:L:1256:TRP:CD1	3:L:1259:LEU:HD23	2.44	0.52
3:L:1757:MET:HE3	3:L:1757:MET:HA	1.90	0.52
3:L:3436:SER:HA	3:L:3439:LEU:HB3	1.91	0.52
3:L:3825:LYS:HG3	3:L:3829:LEU:HD23	1.91	0.52
3:L:3959:MET:HG3	3:L:4124:TRP:CH2	2.44	0.52
6:N:1:DG:N2	6:N:2:DT:C2	2.77	0.52
1:A:273:ILE:HD12	1:A:434:LEU:HD11	1.89	0.52
2:B:165:LEU:O	2:B:226:SER:HA	2.09	0.52
2:B:540:ILE:H	2:B:540:ILE:HD12	1.74	0.52
3:C:385:TYR:CE2	3:C:424:LEU:HD11	2.44	0.52
3:C:1337:VAL:O	3:C:1341:ILE:HG23	2.08	0.52
3:C:1639:LEU:HG	3:C:1643:MET:HE1	1.92	0.52
3:C:2584:CYS:SG	3:C:2780:LEU:HB2	2.49	0.52
3:C:2947:ILE:O	3:C:2947:ILE:HG13	2.07	0.52
1:J:262:LYS:HA	1:J:268:VAL:HA	1.91	0.52
1:J:330:GLU:HB2	1:J:333:GLU:HG2	1.90	0.52
2:K:354:ARG:HG3	2:K:355:PHE:N	2.24	0.52
3:L:196:LEU:HD22	3:L:230:LEU:HD22	1.90	0.52
3:L:275:PHE:CZ	3:L:286:LEU:HD11	2.43	0.52
3:L:1365:ASN:O	3:L:1368:LEU:HG	2.08	0.52
3:L:3008:TRP:N	3:L:3008:TRP:CD1	2.76	0.52
3:L:3585:PHE:HA	3:L:3588:TRP:CD1	2.45	0.52
3:L:3717:VAL:HG23	3:L:3743:HIS:HB3	1.90	0.52
3:L:3875:GLU:HG2	3:L:3965:ARG:HD3	1.90	0.52
3:L:4056:PRO:HA	3:L:4059:ILE:HG22	1.89	0.52
5:M:27:DA:H1'	5:M:28:DC:H5''	1.91	0.52
1:A:294:GLU:OE2	2:B:298:ASN:ND2	2.41	0.52
3:C:227:LEU:HD21	3:C:248:ILE:HD12	1.91	0.52
3:C:484:HIS:CE1	3:C:488:ILE:HD11	2.44	0.52
3:C:668:LYS:O	3:C:671:SER:OG	2.17	0.52
3:C:1713:VAL:O	3:C:1716:GLN:HG2	2.10	0.52
3:C:3893:SER:O	3:C:3895:GLU:N	2.41	0.52
1:J:216:PHE:HD2	1:J:217:TYR:CE1	2.27	0.52
3:L:484:HIS:CE1	3:L:488:ILE:HD11	2.44	0.52
3:L:3041:LEU:O	3:L:3044:MET:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3443:PRO:O	3:L:3446:VAL:HG12	2.09	0.52
6:N:1:DG:H2'	6:N:2:DT:H71	1.92	0.52
6:N:21:DA:H2''	6:N:22:DG:C8	2.44	0.52
1:A:192:ASP:O	1:A:195:ASP:N	2.42	0.52
2:B:529:PRO:O	2:B:532:LYS:HG2	2.10	0.52
3:C:385:TYR:CD2	3:C:424:LEU:HD11	2.44	0.52
3:C:972:LEU:HD23	3:C:984:TYR:HE2	1.74	0.52
3:C:1963:GLN:HE22	3:C:1968:SER:HB3	1.72	0.52
3:C:1987:ARG:HA	3:C:1987:ARG:HE	1.74	0.52
3:C:2551:GLU:O	3:C:2554:PHE:N	2.36	0.52
3:C:3959:MET:HG3	3:C:4124:TRP:CH2	2.44	0.52
3:C:4089:ILE:HG12	3:C:4109:ASP:OD2	2.09	0.52
5:D:6:DG:C4	5:D:7:DA:C8	2.97	0.52
1:J:422:ASP:N	1:J:422:ASP:OD1	2.42	0.52
3:L:385:TYR:CD2	3:L:424:LEU:HD11	2.44	0.52
3:L:1487:VAL:O	3:L:1491:ILE:N	2.29	0.52
3:L:1595:ALA:HA	3:L:1598:ASN:HD22	1.74	0.52
3:L:1898:GLN:OE1	3:L:1898:GLN:N	2.43	0.52
3:L:2285:LEU:HD23	3:L:2329:TYR:HA	1.90	0.52
3:L:2405:VAL:HA	3:L:2408:MET:HE1	1.91	0.52
3:L:2848:PHE:HB2	3:L:3077:ILE:CD1	2.38	0.52
9:X:681:ARG:HG2	9:X:730:PHE:CE2	2.44	0.52
2:B:526:SER:O	2:B:529:PRO:HD2	2.10	0.52
3:C:1046:PRO:HA	3:C:1049:GLN:CB	2.40	0.52
3:C:1898:GLN:OE1	3:C:1898:GLN:N	2.43	0.52
3:C:2166:SER:OG	3:C:2167:PRO:HD3	2.10	0.52
3:C:2279:ILE:O	3:C:2283:ASN:ND2	2.43	0.52
3:C:4056:PRO:HD2	3:C:4106:CYS:SG	2.49	0.52
5:D:21:DT:H2''	5:D:22:DA:H8	1.74	0.52
2:K:45:GLN:NE2	2:K:54:ILE:HD12	2.24	0.52
3:L:385:TYR:CE2	3:L:424:LEU:HD11	2.44	0.52
3:L:1184:ARG:NH2	3:L:1262:ALA:O	2.42	0.52
3:L:1634:ALA:HB3	3:L:1637:SER:HB2	1.91	0.52
3:L:1713:VAL:O	3:L:1716:GLN:HG2	2.10	0.52
3:L:2367:VAL:HG11	3:L:2374:LEU:HD13	1.91	0.52
3:L:2551:GLU:O	3:L:2553:HIS:N	2.43	0.52
6:N:20:DG:H2''	6:N:21:DA:H8	1.75	0.52
2:B:446:PRO:HB2	2:B:451:LEU:HD21	1.92	0.52
2:B:551:GLN:NE2	3:C:208:MET:HB2	2.25	0.52
3:C:993:HIS:CE1	3:C:1039:TRP:CZ2	2.97	0.52
3:C:1568:ASN:HA	3:C:1600:MET:HE1	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2119:PRO:O	3:C:2122:LEU:N	2.40	0.52
2:K:529:PRO:O	2:K:532:LYS:HG2	2.10	0.52
3:L:61:ARG:O	3:L:67:VAL:HG21	2.10	0.52
3:L:939:MET:HE1	3:L:2782:ASP:N	2.21	0.52
3:L:1297:PHE:CD1	3:L:1301:ILE:HB	2.44	0.52
3:L:1421:GLU:C	3:L:1422:LYS:HD3	2.35	0.52
3:L:1913:LYS:O	3:L:1916:ILE:HG22	2.10	0.52
3:L:3090:TYR:OH	3:L:3098:ARG:NH2	2.43	0.52
3:L:3797:THR:HG22	3:L:3800:LEU:HB3	1.91	0.52
3:L:3886:ALA:O	3:L:3890:MET:HG3	2.10	0.52
1:A:433:GLN:NE2	2:B:354:ARG:HB3	2.25	0.52
3:C:47:SER:HB3	3:C:50:VAL:HG12	1.92	0.52
3:C:3357:ARG:NH2	3:C:3358:ARG:HH12	2.08	0.52
3:C:3825:LYS:HG3	3:C:3829:LEU:HD23	1.91	0.52
6:E:1:DG:H2'	6:E:2:DT:H71	1.92	0.52
7:F:106:PHE:CD1	8:H:113:SER:HB2	2.44	0.52
1:J:41:LEU:HA	1:J:86:VAL:O	2.10	0.52
1:J:95:ASN:ND2	1:J:99:PHE:H	2.06	0.52
1:J:327:ILE:O	1:J:328:ILE:HD13	2.09	0.52
1:J:352:PRO:HG3	2:K:473:LEU:HD22	1.92	0.52
3:L:2166:SER:OG	3:L:2167:PRO:HD3	2.10	0.52
3:L:3357:ARG:NH2	3:L:3358:ARG:HH12	2.08	0.52
3:L:3445:LEU:O	3:L:3449:LYS:HB2	2.09	0.52
3:C:1297:PHE:CD1	3:C:1301:ILE:HB	2.44	0.52
3:C:2122:LEU:HB3	3:C:2123:PRO:HD3	1.92	0.52
3:C:3710:LYS:HZ1	3:C:3712:LEU:HD22	1.73	0.52
5:D:14:DA:H2'	5:D:15:DT:H71	1.91	0.52
3:L:1838:GLU:O	3:L:1841:SER:OG	2.27	0.52
3:L:1991:PRO:HD3	3:L:2734:ARG:NE	2.24	0.52
3:L:3892:THR:OG1	3:L:3893:SER:N	2.42	0.52
9:Y:681:ARG:HG2	9:Y:730:PHE:CE2	2.44	0.52
1:A:263:LEU:HD11	1:A:381:LEU:HD21	1.92	0.52
1:A:446:MET:HG2	1:A:447:PRO:HD2	1.92	0.52
3:C:1184:ARG:NH2	3:C:1262:ALA:O	2.42	0.52
3:C:2367:VAL:HG11	3:C:2374:LEU:HD13	1.91	0.52
3:C:3413:TYR:O	3:C:3416:LEU:HG	2.10	0.52
3:C:3763:ARG:HH11	3:C:4004:VAL:HG13	1.75	0.52
3:C:3929:MET:HB2	3:C:3940:ILE:CD1	2.35	0.52
2:K:413:LYS:O	2:K:416:TYR:N	2.42	0.52
3:L:227:LEU:HD21	3:L:248:ILE:HD12	1.91	0.52
3:L:264:ARG:NH1	6:N:9:DT:H5'	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:386:VAL:HG22	3:L:431:TYR:HE2	1.74	0.52
3:L:1568:ASN:HA	3:L:1600:MET:HE1	1.92	0.52
3:L:2092:GLU:OE1	3:L:2092:GLU:N	2.43	0.52
3:L:3483:MET:SD	3:L:3513:ALA:HA	2.50	0.52
3:L:3881:ASP:H	3:L:3969:ASN:HD22	1.58	0.52
3:L:4056:PRO:HD2	3:L:4106:CYS:SG	2.49	0.52
1:A:41:LEU:HA	1:A:86:VAL:O	2.10	0.52
3:C:248:ILE:O	3:C:252:VAL:HG23	2.10	0.52
3:C:1909:ASN:O	3:C:1913:LYS:NZ	2.43	0.52
3:C:2551:GLU:O	3:C:2553:HIS:N	2.43	0.52
3:C:3443:PRO:O	3:C:3446:VAL:HG12	2.09	0.52
2:K:244:SER:OG	2:K:245:ILE:N	2.43	0.52
3:L:1527:ARG:O	3:L:1530:SER:OG	2.16	0.52
3:L:3338:ALA:HB1	3:L:3378:TYR:CZ	2.45	0.52
5:M:6:DG:C4	5:M:7:DA:C8	2.97	0.52
5:M:21:DT:H2"	5:M:22:DA:H8	1.74	0.52
1:A:271:VAL:CG1	1:A:368:VAL:HG13	2.39	0.51
2:B:45:GLN:NE2	2:B:54:ILE:HD12	2.24	0.51
2:B:486:ARG:NH1	6:E:19:DA:OP2	2.40	0.51
3:C:364:ARG:HE	3:C:415:GLN:HG2	1.75	0.51
3:C:941:MET:O	3:C:958:MET:HE1	2.09	0.51
3:C:1595:ALA:HA	3:C:1598:ASN:HD22	1.75	0.51
3:C:2361:ILE:HG13	3:C:2389:PHE:HE2	1.73	0.51
3:C:3886:ALA:O	3:C:3890:MET:HG3	2.10	0.51
1:J:303:PHE:CE1	2:K:292:GLU:HG2	2.46	0.51
2:K:12:LEU:HB2	2:K:56:LEU:HD23	1.90	0.51
3:L:248:ILE:O	3:L:252:VAL:HG23	2.10	0.51
3:L:364:ARG:HE	3:L:415:GLN:HG2	1.75	0.51
3:L:993:HIS:CE1	3:L:1039:TRP:CZ2	2.97	0.51
3:L:1538:LEU:HG	3:L:1555:HIS:HB2	1.91	0.51
3:L:1990:PHE:HB3	3:L:1991:PRO:CD	2.37	0.51
3:L:2361:ILE:HG13	3:L:2389:PHE:HE2	1.73	0.51
3:L:3531:TYR:CE1	3:L:3796:MET:HE1	2.45	0.51
3:L:4040:PRO:HA	3:L:4043:LYS:CG	2.40	0.51
5:M:11:DC:H42	6:N:19:DA:N6	2.09	0.51
1:A:35:ARG:HD3	1:A:80:ARG:CG	2.37	0.51
1:A:216:PHE:HD2	1:A:217:TYR:CE1	2.27	0.51
1:A:262:LYS:HA	1:A:268:VAL:HA	1.91	0.51
1:A:303:PHE:CE1	2:B:292:GLU:HG2	2.46	0.51
3:C:1410:PRO:O	3:C:1411:TYR:HB3	2.10	0.51
3:C:1577:LEU:O	3:C:1580:LEU:HG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2151:ILE:O	3:C:2154:GLU:HG3	2.10	0.51
3:C:3330:LEU:HB3	3:C:3384:HIS:HE2	1.75	0.51
8:H:298:LEU:CD1	2:K:41:PHE:CG	2.93	0.51
1:J:263:LEU:HD11	1:J:381:LEU:HD21	1.92	0.51
2:K:45:GLN:HE21	2:K:54:ILE:HD12	1.75	0.51
3:L:47:SER:HB3	3:L:50:VAL:HG12	1.92	0.51
3:L:1840:PHE:HD2	3:L:1880:MET:HB3	1.75	0.51
3:L:1963:GLN:NE2	3:L:1968:SER:HB3	2.25	0.51
3:L:2510:LEU:HB3	3:L:2550:ILE:HD11	1.91	0.51
5:M:14:DA:H2'	5:M:15:DT:H71	1.91	0.51
2:B:45:GLN:HE21	2:B:54:ILE:HD12	1.75	0.51
2:B:244:SER:OG	2:B:245:ILE:N	2.43	0.51
2:B:371:GLU:O	2:B:374:ALA:N	2.44	0.51
3:C:1815:THR:HG22	3:C:1819:PHE:CE2	2.46	0.51
3:C:3244:ASP:OD1	3:C:3247:ARG:NH2	2.43	0.51
3:C:3531:TYR:CE1	3:C:3796:MET:HE1	2.45	0.51
3:C:3713:PRO:HA	3:C:3716:HIS:NE2	2.26	0.51
3:C:3892:THR:OG1	3:C:3893:SER:N	2.42	0.51
1:J:372:GLU:OE2	1:J:377:GLY:N	2.22	0.51
2:K:371:GLU:O	2:K:374:ALA:N	2.44	0.51
2:K:526:SER:O	2:K:529:PRO:HD2	2.10	0.51
3:L:478:CYS:O	3:L:481:THR:OG1	2.23	0.51
3:L:929:ALA:O	3:L:932:GLU:HG3	2.11	0.51
3:L:1749:ALA:O	3:L:1753:SER:OG	2.20	0.51
3:L:2916:LEU:HG	3:L:2918:PRO:HD2	1.93	0.51
3:L:3564:GLN:O	3:L:3697:ASN:ND2	2.42	0.51
2:B:437:SER:OG	2:B:438:LEU:N	2.41	0.51
3:C:895:ALA:O	3:C:896:VAL:C	2.53	0.51
3:C:1344:PHE:CE1	3:C:1348:LEU:HD13	2.44	0.51
3:C:1879:VAL:O	3:C:1882:SER:OG	2.23	0.51
3:C:2510:LEU:HB3	3:C:2550:ILE:HD11	1.91	0.51
3:C:3380:ARG:O	3:C:3383:GLN:HG3	2.10	0.51
3:C:3585:PHE:HA	3:C:3588:TRP:CD1	2.45	0.51
3:C:3912:CYS:HB3	3:C:3961:PHE:CE1	2.46	0.51
5:D:11:DC:H42	6:E:19:DA:N6	2.08	0.51
2:K:405:VAL:O	2:K:423:GLN:NE2	2.44	0.51
2:K:540:ILE:H	2:K:540:ILE:HD12	1.74	0.51
3:L:895:ALA:O	3:L:896:VAL:C	2.54	0.51
3:L:920:THR:HG22	3:L:920:THR:O	2.11	0.51
3:L:1639:LEU:HG	3:L:1643:MET:HE1	1.92	0.51
3:L:1892:LYS:O	3:L:1908:GLY:N	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2106:ARG:HG2	3:L:2106:ARG:HH11	1.75	0.51
3:L:3713:PRO:HA	3:L:3716:HIS:NE2	2.26	0.51
6:N:13:DG:H1'	6:N:14:DA:O4'	2.10	0.51
1:A:380:THR:O	1:A:383:SER:OG	2.20	0.51
2:B:353:ARG:O	2:B:356:PHE:HD1	1.93	0.51
2:B:477:PHE:CE1	2:B:518:PRO:HA	2.46	0.51
3:C:61:ARG:O	3:C:67:VAL:HG21	2.10	0.51
3:C:678:LYS:NZ	3:C:735:SER:O	2.31	0.51
3:C:888:ARG:HH11	3:C:3932:MET:HG2	1.75	0.51
3:C:920:THR:O	3:C:920:THR:HG22	2.11	0.51
3:C:1421:GLU:C	3:C:1422:LYS:HD3	2.35	0.51
3:C:1527:ARG:O	3:C:1530:SER:OG	2.16	0.51
3:C:1913:LYS:O	3:C:1916:ILE:HG22	2.10	0.51
3:C:1990:PHE:HB3	3:C:1991:PRO:CD	2.37	0.51
3:C:2106:ARG:HG2	3:C:2106:ARG:HH11	1.75	0.51
3:C:2379:MET:CE	3:C:2408:MET:HE3	2.41	0.51
3:C:3338:ALA:HB1	3:C:3378:TYR:CZ	2.46	0.51
3:L:972:LEU:HD23	3:L:984:TYR:HE2	1.75	0.51
3:L:2151:ILE:O	3:L:2154:GLU:HG3	2.10	0.51
3:L:2443:MET:O	3:L:2446:LEU:HD23	2.11	0.51
3:L:2891:ARG:HG3	3:L:2891:ARG:NH2	2.25	0.51
3:L:3325:ASP:O	3:L:3328:ILE:HG22	2.10	0.51
3:L:3763:ARG:HH11	3:L:4004:VAL:HG13	1.75	0.51
2:B:11:VAL:HG22	2:B:55:ALA:HB3	1.92	0.51
3:C:22:ALA:O	3:C:24:ARG:N	2.44	0.51
3:C:789:TYR:HA	3:C:792:ILE:CG2	2.39	0.51
3:C:1963:GLN:NE2	3:C:1968:SER:HB3	2.25	0.51
3:C:2092:GLU:N	3:C:2092:GLU:OE1	2.43	0.51
3:C:3797:THR:HG22	3:C:3800:LEU:HB3	1.91	0.51
6:E:9:DT:H2''	6:E:10:DA:C8	2.46	0.51
1:J:53:SER:OG	1:J:54:GLU:OE1	2.22	0.51
1:J:271:VAL:CG1	1:J:368:VAL:HG13	2.39	0.51
2:K:11:VAL:HG22	2:K:55:ALA:HB3	1.92	0.51
3:L:671:SER:HA	3:L:674:VAL:HG12	1.93	0.51
3:L:1109:GLU:OE1	3:L:1178:ARG:NH1	2.44	0.51
3:L:2418:LYS:O	3:L:2420:PHE:N	2.43	0.51
3:L:3236:PHE:CE1	3:L:3265:GLU:HB3	2.46	0.51
3:L:3413:TYR:O	3:L:3416:LEU:HG	2.10	0.51
9:Y:722:LYS:NZ	9:Y:741:ARG:HG3	2.25	0.51
3:C:406:ARG:NH2	3:C:407:VAL:HG12	2.26	0.51
3:C:848:LEU:O	3:C:851:ILE:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:862:LEU:HB3	3:C:866:ILE:HG21	1.92	0.51
3:C:1681:ASP:OD2	3:C:1683:LYS:N	2.44	0.51
3:C:3483:MET:SD	3:C:3513:ALA:HA	2.50	0.51
6:E:19:DA:C2	6:E:20:DG:C4	2.99	0.51
2:K:477:PHE:CE1	2:K:518:PRO:HA	2.46	0.51
3:L:135:LEU:HD13	3:L:144:MET:HE1	1.93	0.51
3:L:579:LEU:HD22	3:L:619:ASP:OD1	2.11	0.51
3:L:1046:PRO:HA	3:L:1049:GLN:CB	2.40	0.51
3:L:2279:ILE:O	3:L:2283:ASN:ND2	2.43	0.51
2:B:327:ASP:HB3	9:X:711:ASN:ND2	2.26	0.51
3:C:3090:TYR:OH	3:C:3098:ARG:NH2	2.43	0.51
3:C:3406:ALA:O	3:C:3410:ILE:HG12	2.10	0.51
6:E:13:DG:H1'	6:E:14:DA:O4'	2.10	0.51
2:K:74:TYR:HA	2:K:109:ASP:OD1	2.11	0.51
3:L:1681:ASP:OD2	3:L:1683:LYS:N	2.44	0.51
3:L:3244:ASP:OD1	3:L:3247:ARG:NH2	2.43	0.51
3:L:3330:LEU:HB3	3:L:3384:HIS:HE2	1.75	0.51
9:Y:682:ILE:O	9:Y:686:GLY:N	2.44	0.51
3:C:386:VAL:HG22	3:C:431:TYR:HE2	1.74	0.51
3:C:1082:PHE:CZ	3:C:1134:LEU:HG	2.46	0.51
3:C:1102:GLU:HG3	3:C:1154:PRO:CA	2.36	0.51
3:C:1109:GLU:OE1	3:C:1178:ARG:NH1	2.44	0.51
3:C:1866:GLN:OE1	3:C:1866:GLN:N	2.43	0.51
3:C:1913:LYS:O	3:C:1916:ILE:N	2.41	0.51
3:C:3255:ALA:O	3:C:3259:LEU:HD23	2.10	0.51
3:C:3382:PHE:HZ	3:C:3445:LEU:HD12	1.76	0.51
3:C:3436:SER:HA	3:C:3439:LEU:HB3	1.91	0.51
3:C:3700:GLU:HA	3:C:3718:ARG:HA	1.93	0.51
3:C:3921:GLY:HA3	3:C:3949:ALA:HB2	1.93	0.51
6:E:20:DG:H2''	6:E:21:DA:H8	1.75	0.51
2:K:353:ARG:O	2:K:356:PHE:HD1	1.93	0.51
3:L:848:LEU:O	3:L:851:ILE:HG22	2.11	0.51
3:L:1411:TYR:CD1	3:L:1414:ILE:HD13	2.46	0.51
3:L:1415:LEU:HA	3:L:1419:LEU:HD13	1.93	0.51
3:L:3325:ASP:O	3:L:3329:LEU:HG	2.11	0.51
3:L:3759:ARG:HD2	3:L:3763:ARG:HH21	1.76	0.51
1:A:357:LYS:HB2	1:A:360:HIS:NE2	2.26	0.51
1:A:384:ALA:HB1	2:B:454:VAL:HG21	1.92	0.51
2:B:447:THR:N	2:B:450:GLN:OE1	2.44	0.51
3:C:1241:LEU:HB2	3:C:1292:LYS:NZ	2.19	0.51
3:C:2262:GLY:O	3:C:2264:ASP:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2405:VAL:HA	3:C:2408:MET:HE1	1.91	0.51
1:J:206:LYS:HA	1:J:234:GLU:O	2.11	0.51
1:J:433:GLN:NE2	2:K:354:ARG:HB3	2.25	0.51
3:L:862:LEU:HB3	3:L:866:ILE:HG21	1.93	0.51
3:L:1195:VAL:HG23	3:L:1196:PRO:HD3	1.93	0.51
3:L:1564:SER:O	3:L:1568:ASN:ND2	2.44	0.51
3:L:1577:LEU:O	3:L:1580:LEU:HG	2.11	0.51
3:L:2122:LEU:HB3	3:L:2123:PRO:HD3	1.92	0.51
3:L:2883:SER:C	3:L:2885:GLN:H	2.19	0.51
6:N:19:DA:C2	6:N:20:DG:C4	2.99	0.51
6:N:20:DG:C2	6:N:21:DA:C4	2.99	0.51
9:X:682:ILE:HA	9:X:730:PHE:HZ	1.76	0.51
9:Y:694:GLY:O	9:Y:718:HIS:NE2	2.44	0.51
1:A:95:ASN:ND2	1:A:99:PHE:H	2.06	0.50
3:C:487:LEU:HA	3:C:490:ILE:HG22	1.93	0.50
3:C:723:ASP:OD2	3:C:981:ARG:NH2	2.43	0.50
3:C:1919:CYS:O	3:C:1923:PHE:HB2	2.10	0.50
3:C:2726:LEU:HD11	3:C:2729:ARG:HH22	1.76	0.50
6:E:19:DA:H2"	6:E:20:DG:H8	1.75	0.50
1:J:113:ALA:C	1:J:115:ARG:N	2.68	0.50
1:J:151:ALA:HB2	1:J:193:LEU:HD11	1.93	0.50
3:L:732:PHE:CZ	3:L:736:LEU:HD21	2.46	0.50
3:L:1410:PRO:O	3:L:1411:TYR:HB3	2.10	0.50
3:L:1919:CYS:O	3:L:1923:PHE:HB2	2.10	0.50
3:L:3033:GLU:OE2	3:L:3036:TYR:HE2	1.94	0.50
6:N:9:DT:H2"	6:N:10:DA:C8	2.45	0.50
9:X:682:ILE:O	9:X:686:GLY:N	2.44	0.50
1:A:151:ALA:HB2	1:A:193:LEU:HD11	1.93	0.50
2:B:74:TYR:HA	2:B:109:ASP:OD1	2.11	0.50
2:B:354:ARG:HG3	2:B:355:PHE:N	2.24	0.50
3:C:50:VAL:O	3:C:54:GLN:HG2	2.11	0.50
3:C:461:ILE:O	3:C:464:VAL:HG12	2.11	0.50
3:C:732:PHE:CZ	3:C:736:LEU:HD21	2.46	0.50
3:C:1711:ARG:NH2	3:C:1757:MET:HE2	2.25	0.50
3:C:1840:PHE:HD2	3:C:1880:MET:HB3	1.75	0.50
3:C:1862:THR:O	3:C:1865:THR:OG1	2.24	0.50
3:C:2285:LEU:HB3	3:C:2329:TYR:CD2	2.45	0.50
3:C:2443:MET:O	3:C:2446:LEU:HD23	2.11	0.50
3:C:3325:ASP:O	3:C:3328:ILE:HG22	2.10	0.50
3:C:3588:TRP:CH2	3:C:3613:MET:HG2	2.46	0.50
3:C:4040:PRO:HA	3:C:4043:LYS:CG	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1037:LEU:HD22	3:L:1088:GLU:HB3	1.93	0.50
3:L:1082:PHE:CZ	3:L:1134:LEU:HG	2.46	0.50
3:L:3380:ARG:O	3:L:3383:GLN:HG3	2.10	0.50
3:L:3382:PHE:HZ	3:L:3445:LEU:HD12	1.76	0.50
1:A:35:ARG:CD	1:A:80:ARG:HG2	2.41	0.50
1:A:167:MET:HA	1:A:201:ASP:O	2.11	0.50
2:B:457:LEU:HD13	2:B:529:PRO:HB2	1.94	0.50
3:C:393:LYS:HA	3:C:396:PHE:CE1	2.46	0.50
3:C:671:SER:HA	3:C:674:VAL:HG12	1.93	0.50
3:C:929:ALA:O	3:C:932:GLU:HG3	2.11	0.50
3:C:1379:PRO:O	3:C:1384:PHE:HB3	2.11	0.50
3:C:1564:SER:O	3:C:1568:ASN:ND2	2.44	0.50
3:C:2418:LYS:O	3:C:2420:PHE:N	2.43	0.50
3:C:2556:SER:HB2	3:C:2799:GLN:HA	1.93	0.50
3:C:3992:ARG:NH2	3:C:4052:ALA:O	2.45	0.50
5:D:7:DA:C4	5:D:8:DA:C8	3.00	0.50
2:K:551:GLN:NE2	3:L:208:MET:HB2	2.25	0.50
3:L:421:LEU:HA	3:L:424:LEU:HG	1.93	0.50
3:L:630:CYS:HA	3:L:633:ILE:HG22	1.93	0.50
3:L:723:ASP:OD2	3:L:981:ARG:NH2	2.43	0.50
3:L:1102:GLU:HG3	3:L:1154:PRO:CA	2.36	0.50
3:L:1815:THR:HG22	3:L:1819:PHE:CE2	2.46	0.50
3:L:3255:ALA:O	3:L:3259:LEU:HD23	2.11	0.50
6:N:19:DA:H2''	6:N:20:DG:H8	1.75	0.50
6:N:23:DT:C2	6:N:24:DT:C4	3.00	0.50
1:A:206:LYS:HA	1:A:234:GLU:O	2.11	0.50
2:B:405:VAL:O	2:B:423:GLN:NE2	2.44	0.50
3:C:462:VAL:HG11	3:C:540:MET:HG3	1.94	0.50
3:C:1125:GLN:OE1	3:C:1125:GLN:N	2.39	0.50
3:C:1415:LEU:HA	3:C:1419:LEU:HD13	1.93	0.50
3:C:2164:TRP:C	3:C:2167:PRO:HD2	2.37	0.50
3:C:3325:ASP:O	3:C:3329:LEU:HG	2.11	0.50
3:C:3535:ILE:HG12	3:C:3797:THR:HA	1.93	0.50
3:C:3698:GLU:HB3	3:C:3718:ARG:HD2	1.94	0.50
5:D:27:DA:H1'	5:D:28:DC:H5''	1.92	0.50
1:J:446:MET:HG2	1:J:447:PRO:HD2	1.92	0.50
3:L:178:LEU:HB3	3:L:196:LEU:HD11	1.94	0.50
3:L:197:PHE:O	3:L:201:LEU:HD23	2.11	0.50
3:L:393:LYS:HA	3:L:396:PHE:CE1	2.46	0.50
3:L:2285:LEU:HB3	3:L:2329:TYR:CD2	2.45	0.50
3:L:3141:PHE:CD1	3:L:3189:PHE:CD1	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3141:PHE:CG	3:L:3189:PHE:CD1	3.00	0.50
3:L:3940:ILE:HG23	10:L:4201:ADP:N7	2.27	0.50
3:L:3992:ARG:NH2	3:L:4052:ALA:O	2.45	0.50
9:Y:682:ILE:HA	9:Y:730:PHE:HZ	1.76	0.50
2:B:233:LYS:HD2	8:I:299:PHE:CE1	2.46	0.50
3:C:178:LEU:HB3	3:C:196:LEU:HD11	1.94	0.50
3:C:879:MET:N	3:C:879:MET:SD	2.85	0.50
3:C:2094:MET:O	3:C:2098:THR:HG23	2.12	0.50
3:C:2496:GLN:HG3	3:C:2500:LYS:HE2	1.93	0.50
3:C:3033:GLU:OE2	3:C:3036:TYR:HE2	1.94	0.50
3:C:3340:ALA:HA	3:C:3343:SER:HB3	1.94	0.50
1:J:192:ASP:O	1:J:195:ASP:N	2.42	0.50
1:J:211:PHE:HB2	1:J:233:PHE:O	2.11	0.50
1:J:439:PHE:CD2	2:K:484:ASN:HA	2.46	0.50
3:L:406:ARG:NH2	3:L:407:VAL:HG12	2.26	0.50
3:L:406:ARG:HH21	3:L:407:VAL:HA	1.76	0.50
3:L:879:MET:N	3:L:879:MET:SD	2.85	0.50
3:L:1089:PHE:O	3:L:1093:GLU:HB2	2.12	0.50
3:L:1828:LEU:HA	3:L:1831:CYS:SG	2.52	0.50
3:L:1913:LYS:HE3	3:L:1955:VAL:HG11	1.93	0.50
3:L:2262:GLY:O	3:L:2264:ASP:N	2.44	0.50
3:L:2726:LEU:HD11	3:L:2729:ARG:HH22	1.76	0.50
3:L:3327:ASN:HD22	3:L:3384:HIS:HE1	1.59	0.50
3:L:3588:TRP:CH2	3:L:3613:MET:HG2	2.46	0.50
3:L:3626:GLY:HA3	3:L:3629:ARG:HB2	1.94	0.50
9:X:681:ARG:HH21	9:X:731:LYS:HE3	1.77	0.50
2:B:131:HIS:CD2	8:I:297:GLY:CA	2.95	0.50
3:C:135:LEU:HD13	3:C:144:MET:HE1	1.93	0.50
3:C:1154:PRO:HG3	3:C:1163:LEU:HD21	1.94	0.50
3:C:2891:ARG:HG3	3:C:2891:ARG:NH2	2.25	0.50
3:C:3141:PHE:CD1	3:C:3189:PHE:CD1	2.99	0.50
3:C:3726:VAL:HG21	3:C:3736:LYS:HD2	1.94	0.50
3:C:3759:ARG:HD2	3:C:3763:ARG:HH21	1.76	0.50
3:L:22:ALA:O	3:L:24:ARG:N	2.43	0.50
3:L:410:MET:N	3:L:411:PRO:HD2	2.27	0.50
3:L:1711:ARG:NH2	3:L:1757:MET:HE2	2.25	0.50
3:L:3343:SER:OG	3:L:3344:GLU:N	2.45	0.50
3:L:3406:ALA:O	3:L:3410:ILE:HG12	2.10	0.50
3:L:3786:LEU:HD21	3:L:3983:ILE:HD11	1.94	0.50
1:A:347:LEU:HD12	1:A:397:LEU:O	2.11	0.50
1:A:422:ASP:N	1:A:422:ASP:OD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:238:LYS:HD3	2:B:239:LYS:O	2.11	0.50
3:C:298:LEU:HD12	3:C:316:LEU:HD11	1.94	0.50
3:C:414:LEU:HA	3:C:417:VAL:HG12	1.93	0.50
3:C:949:PRO:HB3	3:L:2579:HIS:CB	2.39	0.50
3:C:1089:PHE:O	3:C:1093:GLU:HB2	2.11	0.50
3:C:1112:ALA:CB	3:C:1183:CYS:HB2	2.41	0.50
3:C:1913:LYS:HE3	3:C:1955:VAL:HG11	1.93	0.50
3:C:2883:SER:C	3:C:2885:GLN:H	2.19	0.50
7:F:187:LYS:HE2	7:F:187:LYS:HA	1.92	0.50
2:K:348:SER:HB3	2:K:388:ASP:OD1	2.11	0.50
3:L:1263:ALA:O	3:L:1266:CYS:N	2.45	0.50
3:L:2496:GLN:HG3	3:L:2500:LYS:HE2	1.93	0.50
3:L:3340:ALA:HA	3:L:3343:SER:HB3	1.93	0.50
3:L:3700:GLU:HA	3:L:3718:ARG:HA	1.93	0.50
1:A:47:ALA:O	1:A:48:MET:HE2	2.12	0.50
1:A:211:PHE:HB2	1:A:233:PHE:O	2.11	0.50
3:C:490:ILE:HD11	3:C:524:TYR:HA	1.94	0.50
3:C:630:CYS:HA	3:C:633:ILE:HG22	1.93	0.50
3:C:1261:LEU:HB2	3:C:1337:VAL:HG22	1.93	0.50
3:C:1298:LEU:HA	3:C:1302:ALA:HB2	1.94	0.50
3:C:1833:LEU:C	3:C:1835:ALA:H	2.20	0.50
3:C:2281:MET:HA	3:C:2288:TYR:OH	2.12	0.50
3:C:2877:SER:HA	3:C:2929:LEU:HD21	1.93	0.50
6:E:20:DG:C2	6:E:21:DA:C4	3.00	0.50
3:L:50:VAL:O	3:L:54:GLN:HG2	2.11	0.50
3:L:366:TYR:CE1	3:L:384:MET:HE3	2.47	0.50
3:L:2289:ASP:N	3:L:2290:PRO:HD3	2.27	0.50
3:L:3452:LYS:HD2	3:L:3455:LYS:NZ	2.27	0.50
3:L:3726:VAL:HG21	3:L:3736:LYS:HD2	1.94	0.50
3:L:3729:MET:HG2	3:L:3735:PRO:HG2	1.93	0.50
3:L:3912:CYS:HB3	3:L:3961:PHE:CE1	2.46	0.50
3:L:3921:GLY:HA3	3:L:3949:ALA:HB2	1.93	0.50
2:B:35:LYS:NZ	2:B:95:GLU:HA	2.26	0.50
3:C:406:ARG:HH21	3:C:407:VAL:HA	1.76	0.50
3:C:575:ILE:O	3:C:579:LEU:HG	2.12	0.50
3:C:579:LEU:HD22	3:C:619:ASP:OD1	2.11	0.50
3:C:1553:PHE:HE2	3:C:1558:TYR:HB2	1.77	0.50
3:C:1828:LEU:HA	3:C:1831:CYS:SG	2.52	0.50
3:C:2128:PHE:O	3:C:2132:LYS:HB2	2.12	0.50
3:C:2578:GLU:HG2	3:C:2579:HIS:CD2	2.47	0.50
3:C:3436:SER:O	3:C:3440:GLN:NE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3502:MET:SD	3:C:3502:MET:N	2.85	0.50
3:C:3666:LEU:O	3:C:3670:MET:HG2	2.12	0.50
3:C:3718:ARG:NH2	3:C:3743:HIS:CD2	2.80	0.50
3:C:4092:GLN:N	3:C:4092:GLN:OE1	2.45	0.50
7:F:184:LEU:HD22	7:G:187:LYS:HZ2	1.77	0.50
1:J:35:ARG:CD	1:J:80:ARG:HG2	2.41	0.50
1:J:58:THR:O	1:J:62:MET:N	2.45	0.50
2:K:446:PRO:HB2	2:K:451:LEU:HD21	1.92	0.50
2:K:475:ASP:C	2:K:477:PHE:H	2.20	0.50
3:L:414:LEU:HA	3:L:417:VAL:HG12	1.93	0.50
3:L:461:ILE:O	3:L:464:VAL:HG12	2.11	0.50
3:L:789:TYR:HB3	3:L:793:LEU:HD23	1.94	0.50
3:L:1379:PRO:O	3:L:1384:PHE:HB3	2.11	0.50
3:L:1913:LYS:O	3:L:1916:ILE:N	2.41	0.50
3:L:1959:LEU:HD21	3:L:2107:SER:HB2	1.94	0.50
3:L:2281:MET:HA	3:L:2288:TYR:OH	2.12	0.50
3:L:3141:PHE:CD1	3:L:3189:PHE:HD1	2.30	0.50
7:P:187:LYS:HE2	7:P:187:LYS:HA	1.93	0.50
9:Y:722:LYS:HZ1	9:Y:741:ARG:HG3	1.76	0.50
1:A:247:ARG:NH2	1:A:488:ARG:NH1	2.60	0.49
1:A:455:THR:HG1	1:A:458:GLN:CD	2.10	0.49
3:C:410:MET:N	3:C:411:PRO:HD2	2.27	0.49
3:C:421:LEU:O	3:C:471:LYS:NZ	2.45	0.49
3:C:861:SER:O	3:C:3167:ARG:NH1	2.34	0.49
3:C:3236:PHE:CE1	3:C:3265:GLU:HB3	2.46	0.49
3:C:3940:ILE:HG23	10:C:4201:ADP:N7	2.27	0.49
6:E:4:DT:O2	6:E:5:DA:H1'	2.12	0.49
1:J:384:ALA:HB1	2:K:454:VAL:HG21	1.92	0.49
3:L:487:LEU:HA	3:L:490:ILE:HG22	1.93	0.49
3:L:778:ILE:HD11	3:L:3163:THR:HG22	1.95	0.49
3:L:1298:LEU:HA	3:L:1302:ALA:HB2	1.94	0.49
3:L:1796:GLY:HA2	3:L:1799:GLU:OE2	2.12	0.49
3:L:1866:GLN:OE1	3:L:1866:GLN:N	2.43	0.49
3:L:3508:LYS:HG3	3:L:3509:ASP:N	2.27	0.49
3:L:3718:ARG:NH2	3:L:3743:HIS:CD2	2.80	0.49
3:L:3749:PRO:HG2	3:L:3805:TRP:HB3	1.94	0.49
6:N:26:DT:H2'	6:N:27:DT:C6	2.47	0.49
1:A:206:LYS:HZ2	1:A:235:GLU:HB2	1.76	0.49
2:B:475:ASP:C	2:B:477:PHE:H	2.20	0.49
3:C:2289:ASP:N	3:C:2290:PRO:HD3	2.27	0.49
3:C:2589:TYR:CD1	3:C:2777:HIS:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2916:LEU:HG	3:C:2918:PRO:HD2	1.93	0.49
3:C:3452:LYS:HD2	3:C:3455:LYS:NZ	2.27	0.49
3:C:3729:MET:HE2	3:C:3805:TRP:HH2	1.74	0.49
2:K:238:LYS:HD3	2:K:239:LYS:O	2.11	0.49
3:L:1479:VAL:CG1	3:L:1518:ALA:HA	2.42	0.49
3:L:1553:PHE:HE2	3:L:1558:TYR:HB2	1.77	0.49
3:L:2345:VAL:O	3:L:2349:LEU:HD23	2.12	0.49
3:L:3666:LEU:O	3:L:3670:MET:HG2	2.12	0.49
2:B:348:SER:HB3	2:B:388:ASP:OD1	2.11	0.49
3:C:489:ARG:NH1	3:C:489:ARG:HB2	2.27	0.49
3:C:490:ILE:HD13	3:C:527:TYR:CD1	2.48	0.49
3:C:762:TYR:CE2	3:C:764:PRO:HG2	2.47	0.49
3:C:1760:GLU:O	3:C:1763:THR:OG1	2.17	0.49
3:C:1864:ASP:O	3:C:1867:ILE:HG22	2.12	0.49
3:C:2345:VAL:O	3:C:2349:LEU:HD23	2.12	0.49
3:C:3626:GLY:HA3	3:C:3629:ARG:HB2	1.94	0.49
3:C:3687:MET:HG3	3:C:3722:PHE:CZ	2.48	0.49
3:C:3881:ASP:H	3:C:3969:ASN:HD22	1.58	0.49
1:J:247:ARG:NH2	1:J:488:ARG:NH1	2.60	0.49
1:J:303:PHE:HB2	1:J:309:GLY:O	2.13	0.49
1:J:309:GLY:O	1:J:310:LEU:HD23	2.13	0.49
1:J:347:LEU:HD12	1:J:397:LEU:O	2.11	0.49
3:L:888:ARG:HH11	3:L:3932:MET:HG2	1.75	0.49
3:L:1154:PRO:HG3	3:L:1163:LEU:HD21	1.94	0.49
3:L:1839:PHE:O	3:L:1843:ILE:HG12	2.12	0.49
3:L:2228:ARG:HD2	5:M:29:DA:H3'	1.94	0.49
3:L:2887:PRO:HA	3:L:2890:ILE:HD13	1.94	0.49
3:L:3504:ALA:C	3:L:3506:LEU:H	2.20	0.49
3:L:3701:ILE:HG23	3:L:3750:PHE:CE2	2.48	0.49
3:L:4003:ASP:O	3:L:4006:VAL:HG23	2.12	0.49
5:M:7:DA:C4	5:M:8:DA:C8	3.00	0.49
2:B:348:SER:OG	2:B:349:SER:N	2.46	0.49
3:C:197:PHE:O	3:C:201:LEU:HD23	2.12	0.49
3:C:1037:LEU:HD22	3:C:1088:GLU:HB3	1.93	0.49
3:C:1411:TYR:CD1	3:C:1414:ILE:HD13	2.46	0.49
3:C:1760:GLU:O	3:C:1764:GLU:OE1	2.30	0.49
3:C:2286:PRO:HD2	3:C:2288:TYR:OH	2.13	0.49
3:C:2377:ARG:C	3:C:2378:PHE:HD1	2.21	0.49
3:C:2886:GLN:O	3:C:2890:ILE:HD12	2.13	0.49
3:C:3701:ILE:HG23	3:C:3750:PHE:CE2	2.48	0.49
1:J:167:MET:HA	1:J:201:ASP:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:357:LYS:HB2	1:J:360:HIS:NE2	2.26	0.49
1:J:487:PHE:O	1:J:490:LEU:HB3	2.13	0.49
2:K:35:LYS:NZ	2:K:95:GLU:HA	2.27	0.49
3:L:201:LEU:HD21	3:L:248:ILE:HD11	1.94	0.49
3:L:258:PRO:HG3	3:L:300:TRP:CZ3	2.47	0.49
3:L:342:MET:HA	3:L:345:PHE:CZ	2.47	0.49
3:L:489:ARG:HB2	3:L:489:ARG:NH1	2.27	0.49
3:L:1112:ALA:CB	3:L:1183:CYS:HB2	2.42	0.49
3:L:2274:ILE:CD1	3:L:2306:ASN:HD21	2.25	0.49
3:L:2877:SER:HA	3:L:2929:LEU:HD21	1.93	0.49
3:L:2886:GLN:O	3:L:2890:ILE:HD12	2.13	0.49
3:L:3042:PRO:HB3	3:L:3082:TYR:OH	2.12	0.49
3:L:3791:TYR:OH	3:L:3940:ILE:O	2.26	0.49
2:B:280:ASP:OD1	2:B:281:ALA:N	2.45	0.49
2:B:413:LYS:O	2:B:416:TYR:N	2.42	0.49
3:C:258:PRO:HG3	3:C:300:TRP:CZ3	2.47	0.49
3:C:741:ILE:HG23	3:C:748:TYR:CD2	2.48	0.49
3:C:889:GLU:HB3	3:C:891:ARG:NH2	2.28	0.49
3:C:1839:PHE:O	3:C:1843:ILE:HG12	2.12	0.49
3:C:2443:MET:HG3	3:C:2479:TRP:CE3	2.48	0.49
3:C:3141:PHE:CG	3:C:3189:PHE:CD1	3.00	0.49
3:C:3584:LEU:HD21	3:C:3629:ARG:NH2	2.28	0.49
3:C:3786:LEU:HD21	3:C:3983:ILE:HD11	1.93	0.49
7:G:134:ILE:HG22	7:G:138:GLN:NE2	2.25	0.49
2:K:457:LEU:HD13	2:K:529:PRO:HB2	1.94	0.49
3:L:298:LEU:HD12	3:L:316:LEU:HD11	1.94	0.49
3:L:364:ARG:NE	3:L:415:GLN:HG2	2.28	0.49
3:L:490:ILE:HD13	3:L:527:TYR:CD1	2.48	0.49
3:L:1141:LYS:O	3:L:1145:LEU:HB2	2.12	0.49
3:L:1261:LEU:HB2	3:L:1337:VAL:HG22	1.93	0.49
3:L:1864:ASP:O	3:L:1867:ILE:HG22	2.12	0.49
3:L:1913:LYS:H	3:L:1913:LYS:HD2	1.78	0.49
3:L:2146:LEU:O	3:L:2149:LEU:HB3	2.13	0.49
3:L:2286:PRO:HD2	3:L:2288:TYR:OH	2.13	0.49
3:L:3499:ILE:HD11	3:L:3529:ILE:HD13	1.94	0.49
3:L:3531:TYR:O	3:L:3534:ILE:HG22	2.13	0.49
3:L:3557:ARG:O	3:L:3560:SER:OG	2.30	0.49
3:L:3579:SER:CA	3:L:3736:LYS:HZ1	2.21	0.49
1:A:113:ALA:C	1:A:115:ARG:N	2.68	0.49
1:A:269:ILE:HG21	1:A:381:LEU:HD22	1.94	0.49
1:A:416:GLN:HG3	2:B:354:ARG:NH2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:489:ARG:NH1	2:B:493:CYS:HB2	2.28	0.49
3:C:342:MET:HA	3:C:345:PHE:CZ	2.47	0.49
3:C:366:TYR:CE1	3:C:384:MET:HE3	2.47	0.49
3:C:421:LEU:HA	3:C:424:LEU:HG	1.93	0.49
3:C:789:TYR:HB3	3:C:793:LEU:HD23	1.94	0.49
3:C:1225:GLU:O	3:C:1235:ILE:N	2.39	0.49
3:C:2157:PHE:CD2	3:C:2164:TRP:HZ3	2.31	0.49
3:C:2169:LEU:HD11	3:C:2215:LEU:HG	1.93	0.49
3:C:2274:ILE:CD1	3:C:2306:ASN:HD21	2.24	0.49
3:C:2371:PHE:CD2	3:C:2373:PRO:HD2	2.47	0.49
3:C:2579:HIS:CB	3:L:949:PRO:HB3	2.41	0.49
3:C:3531:TYR:HE1	3:C:3568:ILE:HG23	1.78	0.49
3:C:3557:ARG:O	3:C:3560:SER:OG	2.30	0.49
3:C:3687:MET:HG3	3:C:3722:PHE:HZ	1.77	0.49
3:C:4003:ASP:O	3:C:4006:VAL:HG23	2.12	0.49
6:E:23:DT:C2	6:E:24:DT:C4	3.00	0.49
1:J:72:ILE:HA	1:J:75:ILE:HG12	1.94	0.49
1:J:416:GLN:HG3	2:K:354:ARG:NH2	2.27	0.49
2:K:242:ARG:NH2	2:K:243:HIS:H	2.11	0.49
2:K:280:ASP:OD1	2:K:281:ALA:N	2.45	0.49
3:L:1015:ASP:HA	3:L:1018:VAL:HG12	1.94	0.49
3:L:1134:LEU:HA	3:L:1137:ILE:HG12	1.94	0.49
3:L:1834:ASP:HA	3:L:1837:ARG:CZ	2.43	0.49
3:L:2157:PHE:CD2	3:L:2164:TRP:HZ3	2.30	0.49
3:L:2379:MET:SD	3:L:2408:MET:HE3	2.53	0.49
3:L:2556:SER:HB2	3:L:2799:GLN:HA	1.93	0.49
1:A:38:LEU:HD11	1:A:167:MET:HG2	1.94	0.49
1:A:309:GLY:O	1:A:310:LEU:HD23	2.13	0.49
1:A:439:PHE:CD2	2:B:484:ASN:HA	2.46	0.49
2:B:68:LEU:O	2:B:74:TYR:HB2	2.13	0.49
3:C:334:HIS:C	3:C:336:ASN:N	2.69	0.49
3:C:1141:LYS:O	3:C:1145:LEU:HB2	2.12	0.49
3:C:1195:VAL:HG23	3:C:1196:PRO:HD3	1.94	0.49
3:C:1479:VAL:CG1	3:C:1518:ALA:HA	2.42	0.49
3:C:1920:TYR:O	3:C:1923:PHE:HB3	2.12	0.49
3:C:3729:MET:HG2	3:C:3735:PRO:HG2	1.93	0.49
3:C:3791:TYR:OH	3:C:3940:ILE:O	2.26	0.49
3:C:4076:ASP:OD1	3:C:4077:TYR:N	2.46	0.49
6:E:26:DT:H2'	6:E:27:DT:C6	2.47	0.49
2:K:68:LEU:O	2:K:74:TYR:HB2	2.13	0.49
3:L:462:VAL:HG11	3:L:540:MET:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:575:ILE:O	3:L:579:LEU:HG	2.12	0.49
3:L:1833:LEU:C	3:L:1835:ALA:H	2.20	0.49
3:L:2164:TRP:C	3:L:2167:PRO:HD2	2.37	0.49
3:L:2371:PHE:CD2	3:L:2373:PRO:HD2	2.47	0.49
3:L:2443:MET:HG3	3:L:2479:TRP:CE3	2.48	0.49
3:L:2454:LEU:O	3:L:2458:VAL:HG23	2.13	0.49
3:L:3436:SER:O	3:L:3440:GLN:NE2	2.45	0.49
3:L:4076:ASP:OD1	3:L:4077:TYR:N	2.46	0.49
3:L:4092:GLN:OE1	3:L:4092:GLN:N	2.45	0.49
7:O:138:GLN:HE21	7:P:137:ASN:CG	2.21	0.49
1:A:49:PHE:HZ	1:A:128:GLN:O	1.96	0.49
1:A:487:PHE:O	1:A:490:LEU:HB3	2.13	0.49
2:B:340:PHE:HA	2:B:394:ARG:O	2.13	0.49
2:B:352:GLN:OE1	2:B:354:ARG:NH1	2.46	0.49
3:C:51:LEU:HD11	3:C:96:MET:SD	2.52	0.49
3:C:910:PHE:HZ	3:C:2808:LEU:HA	1.77	0.49
3:C:3449:LYS:O	3:C:3452:LYS:HB3	2.13	0.49
3:C:3504:ALA:C	3:C:3506:LEU:H	2.19	0.49
3:C:3508:LYS:HG3	3:C:3509:ASP:N	2.27	0.49
3:C:3749:PRO:HG2	3:C:3805:TRP:HB3	1.94	0.49
8:H:97:CYS:SG	8:H:104:LEU:HD11	2.53	0.49
1:J:376:ILE:HB	2:K:540:ILE:HB	1.95	0.49
2:K:348:SER:OG	2:K:349:SER:N	2.46	0.49
3:L:334:HIS:C	3:L:336:ASN:N	2.69	0.49
3:L:421:LEU:O	3:L:471:LYS:NZ	2.45	0.49
3:L:490:ILE:HD11	3:L:524:TYR:HA	1.94	0.49
3:L:762:TYR:CE2	3:L:764:PRO:HG2	2.47	0.49
3:L:789:TYR:HA	3:L:792:ILE:CG2	2.39	0.49
3:L:1920:TYR:O	3:L:1923:PHE:HB3	2.12	0.49
3:L:2598:ARG:O	3:L:2598:ARG:NE	2.42	0.49
3:L:3535:ILE:HG12	3:L:3797:THR:HA	1.93	0.49
3:L:4038:TRP:O	3:L:4041:ARG:HG2	2.13	0.49
1:A:493:LEU:CD1	9:X:708:ARG:HG3	2.42	0.49
3:C:364:ARG:NE	3:C:415:GLN:HG2	2.28	0.49
3:C:478:CYS:O	3:C:481:THR:OG1	2.23	0.49
3:C:1834:ASP:HA	3:C:1837:ARG:CZ	2.43	0.49
3:C:3327:ASN:HD22	3:C:3384:HIS:HE1	1.59	0.49
3:C:3880:ALA:HB2	3:C:3965:ARG:HH22	1.78	0.49
2:K:447:THR:N	2:K:450:GLN:OE1	2.44	0.49
3:L:51:LEU:HD11	3:L:96:MET:SD	2.52	0.49
3:L:664:SER:OG	3:L:665:GLY:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2580:PRO:HD3	3:L:2784:GLN:OE1	2.13	0.49
3:L:3929:MET:HB2	3:L:3940:ILE:CD1	2.36	0.49
1:A:72:ILE:HA	1:A:75:ILE:HG12	1.94	0.49
3:C:406:ARG:NE	3:C:448:GLN:OE1	2.46	0.49
3:C:778:ILE:HD11	3:C:3163:THR:HG22	1.94	0.49
3:C:972:LEU:HD23	3:C:984:TYR:CE2	2.48	0.49
3:C:2257:PHE:HE1	3:C:2302:ALA:HB3	1.78	0.49
3:C:2542:LEU:HA	3:C:2545:LEU:HD23	1.95	0.49
3:C:2580:PRO:HD3	3:C:2784:GLN:OE1	2.13	0.49
3:C:3156:PRO:HD2	3:C:3157:LEU:N	2.23	0.49
3:C:3169:PRO:HB2	3:C:3179:TRP:CZ3	2.48	0.49
2:K:520:ALA:O	2:K:523:THR:OG1	2.23	0.49
3:L:972:LEU:HD23	3:L:984:TYR:CE2	2.48	0.49
3:L:1760:GLU:O	3:L:1763:THR:OG1	2.17	0.49
3:L:1890:HIS:CE1	3:L:1955:VAL:HA	2.48	0.49
3:L:2379:MET:CE	3:L:2408:MET:HE3	2.40	0.49
5:M:19:DA:C4	5:M:20:DG:C8	3.01	0.49
2:B:242:ARG:NH2	2:B:243:HIS:H	2.11	0.48
2:B:441:SER:HG	2:B:445:ALA:H	1.56	0.48
2:B:465:LYS:HG2	2:B:474:GLU:HB2	1.95	0.48
3:C:1441:ALA:C	3:C:1443:VAL:H	2.21	0.48
3:C:2228:ARG:HD2	5:D:29:DA:H3'	1.94	0.48
3:C:2581:LEU:CD1	3:C:2783:ILE:HG13	2.43	0.48
3:C:3065:ILE:HD12	3:C:3089:LEU:HD22	1.94	0.48
3:C:3141:PHE:CD1	3:C:3189:PHE:HD1	2.31	0.48
1:J:206:LYS:NZ	1:J:235:GLU:HB2	2.28	0.48
3:L:910:PHE:HZ	3:L:2808:LEU:HA	1.78	0.48
3:L:1909:ASN:O	3:L:1913:LYS:NZ	2.43	0.48
1:A:264:ASN:OD1	1:A:267:ILE:N	2.37	0.48
1:A:376:ILE:HB	2:B:540:ILE:HB	1.95	0.48
3:C:252:VAL:O	3:C:256:ILE:HG12	2.13	0.48
3:C:2105:HIS:HB2	3:C:2156:VAL:HG13	1.95	0.48
7:G:134:ILE:HG23	7:G:138:GLN:NE2	2.07	0.48
1:J:47:ALA:O	1:J:48:MET:HE2	2.12	0.48
3:L:1760:GLU:O	3:L:1764:GLU:OE1	2.30	0.48
3:L:2169:LEU:HD11	3:L:2215:LEU:HG	1.94	0.48
3:L:3006:ALA:C	3:L:3008:TRP:HD1	2.22	0.48
3:L:3465:PHE:HD2	3:L:3498:TRP:CZ2	2.30	0.48
3:L:3511:ALA:C	3:L:3513:ALA:N	2.70	0.48
3:L:3997:LEU:O	3:L:4001:THR:OG1	2.19	0.48
1:A:312:LEU:HB3	1:A:313:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:118:ILE:O	2:B:122:THR:OG1	2.27	0.48
3:C:201:LEU:HD21	3:C:248:ILE:HD11	1.95	0.48
3:C:479:ILE:HA	3:C:482:VAL:HG12	1.95	0.48
3:C:1959:LEU:HD21	3:C:2107:SER:HB2	1.95	0.48
3:C:2281:MET:HE3	3:C:2326:ILE:HA	1.94	0.48
3:C:2887:PRO:HA	3:C:2890:ILE:HD13	1.94	0.48
3:C:3771:MET:HE3	3:C:3991:PHE:CE1	2.48	0.48
3:C:3925:LEU:HD11	3:C:4128:MET:SD	2.53	0.48
3:C:4038:TRP:O	3:C:4041:ARG:HG2	2.13	0.48
5:D:27:DA:C4	5:D:28:DC:C5	3.02	0.48
1:J:193:LEU:HA	1:J:196:THR:HG22	1.95	0.48
1:J:279:LYS:HB2	2:K:357:MET:SD	2.54	0.48
1:J:312:LEU:HB3	1:J:313:PRO:HD2	1.95	0.48
2:K:47:PHE:HZ	2:K:495:LEU:HB2	1.77	0.48
3:L:1921:ASP:OD1	3:L:1922:ALA:N	2.47	0.48
3:L:2128:PHE:O	3:L:2132:LYS:HB2	2.12	0.48
3:L:2311:ARG:HD3	3:L:2312:TYR:CE1	2.48	0.48
3:L:2589:TYR:CD1	3:L:2777:HIS:HB2	2.47	0.48
3:L:3496:ILE:HD11	3:L:3528:ALA:CB	2.43	0.48
3:L:3659:PHE:O	3:L:3663:THR:HG23	2.13	0.48
3:L:3687:MET:HG3	3:L:3722:PHE:HZ	1.77	0.48
7:P:140:LYS:HE2	7:P:140:LYS:HA	1.95	0.48
9:Y:681:ARG:HH21	9:Y:731:LYS:HE3	1.77	0.48
1:A:58:THR:O	1:A:62:MET:N	2.45	0.48
1:A:303:PHE:HB2	1:A:309:GLY:O	2.13	0.48
3:C:13:LEU:HD21	3:C:3070:HIS:HD2	1.78	0.48
3:C:333:MET:HB3	3:C:337:LYS:HZ3	1.77	0.48
3:C:1015:ASP:HA	3:C:1018:VAL:HG12	1.94	0.48
3:C:1134:LEU:HA	3:C:1137:ILE:HG12	1.94	0.48
3:C:2454:LEU:O	3:C:2458:VAL:HG23	2.13	0.48
3:C:2503:LYS:O	3:C:2507:ILE:HG12	2.13	0.48
3:C:3044:MET:O	3:C:3047:SER:OG	2.31	0.48
8:H:208:LYS:CG	8:H:212:MET:HE1	2.42	0.48
2:K:340:PHE:HA	2:K:394:ARG:O	2.13	0.48
3:L:13:LEU:HD21	3:L:3070:HIS:HD2	1.78	0.48
3:L:741:ILE:HG23	3:L:748:TYR:CD2	2.48	0.48
3:L:889:GLU:HB3	3:L:891:ARG:NH2	2.28	0.48
3:L:1840:PHE:O	3:L:1844:VAL:HB	2.14	0.48
3:L:2281:MET:HE3	3:L:2326:ILE:HA	1.94	0.48
3:L:2578:GLU:HG2	3:L:2579:HIS:CD2	2.47	0.48
3:L:3247:ARG:HG2	3:L:3247:ARG:HH11	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3584:LEU:HD21	3:L:3629:ARG:NH2	2.28	0.48
3:L:3717:VAL:HG23	3:L:3744:ASP:H	1.78	0.48
6:N:6:DA:H8	6:N:6:DA:O5'	1.96	0.48
1:A:142:SER:HA	1:A:182:LYS:CE	2.43	0.48
2:B:125:LYS:HG3	2:B:127:PHE:CE2	2.48	0.48
3:C:125:ILE:HB	3:C:126:PRO:HD3	1.96	0.48
3:C:220:LEU:HD22	3:C:267:VAL:HG13	1.95	0.48
3:C:1913:LYS:H	3:C:1913:LYS:HD2	1.78	0.48
3:C:1921:ASP:OD1	3:C:1922:ALA:N	2.47	0.48
3:C:2261:SER:O	3:C:2263:LYS:HE2	2.14	0.48
3:C:2379:MET:SD	3:C:2408:MET:HE3	2.53	0.48
3:C:3042:PRO:HB3	3:C:3082:TYR:OH	2.12	0.48
3:C:3554:PHE:CZ	3:C:3558:ILE:HD11	2.48	0.48
7:F:137:ASN:CG	7:G:138:GLN:HE21	2.21	0.48
1:J:340:PHE:CE1	2:K:485:PRO:HB2	2.36	0.48
3:L:367:GLY:O	3:L:370:ALA:N	2.47	0.48
3:L:406:ARG:NE	3:L:448:GLN:OE1	2.46	0.48
3:L:745:VAL:HG22	3:L:746:ARG:H	1.79	0.48
3:L:1407:LYS:HA	3:L:1412:LYS:HE2	1.94	0.48
3:L:1795:VAL:HG12	3:L:1799:GLU:OE1	2.14	0.48
3:L:2094:MET:O	3:L:2098:THR:HG23	2.12	0.48
3:L:3172:LYS:HE3	3:L:3248:LYS:HE2	1.95	0.48
3:L:3493:TRP:O	3:L:3496:ILE:HG22	2.14	0.48
3:L:3698:GLU:HB3	3:L:3718:ARG:HD2	1.93	0.48
6:N:4:DT:O2	6:N:5:DA:H1'	2.12	0.48
7:O:187:LYS:HZ2	7:P:184:LEU:HD22	1.78	0.48
1:A:35:ARG:NH1	1:A:159:PHE:CG	2.81	0.48
3:C:664:SER:OG	3:C:665:GLY:N	2.46	0.48
3:C:1796:GLY:HA2	3:C:1799:GLU:OE2	2.12	0.48
3:C:3465:PHE:HD2	3:C:3498:TRP:CZ2	2.31	0.48
3:C:3499:ILE:HD11	3:C:3529:ILE:HD13	1.94	0.48
2:K:478:PRO:O	2:K:479:THR:OG1	2.23	0.48
3:L:252:VAL:O	3:L:256:ILE:HG12	2.13	0.48
3:L:532:ARG:HG3	3:L:532:ARG:NH1	2.28	0.48
3:L:1073:PHE:CE2	3:L:1121:LEU:HD13	2.49	0.48
3:L:1538:LEU:HD12	3:L:1553:PHE:CE2	2.49	0.48
3:L:2256:ILE:HG22	3:L:2260:PHE:CE2	2.49	0.48
3:L:3449:LYS:O	3:L:3452:LYS:HB3	2.13	0.48
3:L:3486:GLU:C	3:L:3488:SER:N	2.71	0.48
3:L:3554:PHE:CZ	3:L:3558:ILE:HD11	2.48	0.48
3:L:3687:MET:HG3	3:L:3722:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:91:GLU:H	7:O:91:GLU:CD	2.22	0.48
7:O:134:ILE:HG22	7:O:138:GLN:NE2	2.24	0.48
9:Y:729:CYS:SG	9:Y:736:VAL:HB	2.54	0.48
1:A:317:LYS:NZ	1:A:330:GLU:HA	2.28	0.48
3:C:264:ARG:HD3	3:C:264:ARG:HA	1.68	0.48
3:C:367:GLY:O	3:C:370:ALA:N	2.47	0.48
3:C:683:PHE:CD1	3:C:737:PRO:HG3	2.48	0.48
3:C:1816:ARG:HA	3:C:1819:PHE:CD2	2.48	0.48
3:C:2146:LEU:O	3:C:2149:LEU:HB3	2.13	0.48
3:C:3531:TYR:O	3:C:3534:ILE:HG22	2.13	0.48
3:C:3659:PHE:O	3:C:3663:THR:HG23	2.13	0.48
3:C:3712:LEU:O	3:C:3714:GLU:N	2.46	0.48
3:C:3717:VAL:HG23	3:C:3744:ASP:H	1.78	0.48
3:C:3737:ARG:HH21	3:C:3805:TRP:CD1	2.32	0.48
3:C:3999:THR:C	3:C:4001:THR:H	2.22	0.48
5:D:1:DT:N3	6:E:30:DA:N7	2.62	0.48
1:J:269:ILE:HG21	1:J:381:LEU:HD22	1.94	0.48
1:J:329:LEU:HD21	2:K:493:CYS:SG	2.54	0.48
2:K:465:LYS:HG2	2:K:474:GLU:HB2	1.95	0.48
3:L:238:MET:H	3:L:241:ASP:CG	2.22	0.48
3:L:1110:SER:O	3:L:1113:LEU:N	2.47	0.48
3:L:1816:ARG:HA	3:L:1819:PHE:CD2	2.49	0.48
3:L:2105:HIS:HB2	3:L:2156:VAL:HG13	1.95	0.48
3:L:2261:SER:O	3:L:2263:LYS:HE2	2.14	0.48
3:L:2595:TRP:CE3	3:L:2764:LYS:HE2	2.49	0.48
3:L:3760:GLN:O	3:L:3763:ARG:HG2	2.14	0.48
1:A:206:LYS:NZ	1:A:235:GLU:HB2	2.28	0.48
2:B:47:PHE:CZ	2:B:495:LEU:HB2	2.49	0.48
2:B:164:PHE:HB3	2:B:227:PHE:HE1	1.79	0.48
2:B:281:ALA:O	2:B:283:THR:N	2.47	0.48
3:C:344:GLN:O	3:C:348:ILE:HG12	2.14	0.48
3:C:1487:VAL:HG21	3:C:1563:PHE:HE2	1.78	0.48
3:C:1935:GLU:HG2	3:C:1936:ARG:N	2.29	0.48
3:C:2305:ASN:O	3:C:2308:SER:OG	2.22	0.48
5:D:19:DA:C4	5:D:20:DG:C8	3.01	0.48
1:J:38:LEU:HD11	1:J:167:MET:HG2	1.94	0.48
2:K:66:ASN:ND2	2:K:74:TYR:O	2.44	0.48
3:L:125:ILE:HB	3:L:126:PRO:HD3	1.96	0.48
3:L:650:SER:O	3:L:653:LEU:N	2.45	0.48
3:L:1176:CYS:SG	3:L:1188:ILE:HG12	2.54	0.48
3:L:1705:GLY:O	3:L:1707:LEU:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1834:ASP:HA	3:L:1837:ARG:NH1	2.29	0.48
3:L:2257:PHE:HE1	3:L:2302:ALA:HB3	1.78	0.48
3:L:2319:ALA:O	3:L:2323:LEU:HD23	2.14	0.48
3:L:2542:LEU:HA	3:L:2545:LEU:HD23	1.95	0.48
3:L:3065:ILE:HD12	3:L:3089:LEU:HD22	1.94	0.48
3:L:3230:LEU:O	3:L:3233:SER:OG	2.22	0.48
3:L:3542:PHE:CZ	3:L:3555:VAL:HG21	2.49	0.48
3:L:3737:ARG:HH21	3:L:3805:TRP:CD1	2.32	0.48
9:Y:663:GLU:HG3	9:Y:697:THR:HA	1.95	0.48
2:B:391:ALA:O	2:B:408:ALA:N	2.44	0.48
2:B:523:THR:O	2:B:527:GLN:NE2	2.47	0.48
3:C:89:LEU:HD23	3:C:89:LEU:HA	1.68	0.48
3:C:617:PRO:O	3:C:620:PHE:N	2.47	0.48
3:C:754:MET:HE3	3:C:1022:ASP:HA	1.96	0.48
3:C:924:ARG:HD2	3:C:2597:PHE:CE1	2.48	0.48
3:C:935:HIS:HB2	3:C:984:TYR:CE1	2.46	0.48
3:C:1176:CYS:SG	3:C:1188:ILE:HG12	2.54	0.48
3:C:1890:HIS:CE1	3:C:1955:VAL:HA	2.48	0.48
3:C:1959:LEU:HA	3:C:1962:TYR:HB2	1.96	0.48
3:C:2595:TRP:CE3	3:C:2764:LYS:HE2	2.49	0.48
3:C:3511:ALA:C	3:C:3513:ALA:N	2.70	0.48
6:E:6:DA:H8	6:E:6:DA:O5'	1.96	0.48
2:K:392:ILE:HD13	2:K:407:VAL:HA	1.95	0.48
3:L:479:ILE:HA	3:L:482:VAL:HG12	1.95	0.48
3:L:617:PRO:O	3:L:620:PHE:N	2.47	0.48
3:L:990:GLN:NE2	3:L:2778:GLY:O	2.47	0.48
3:L:1661:PHE:C	3:L:1668:PHE:HE1	2.22	0.48
3:L:2256:ILE:O	3:L:2259:LYS:N	2.46	0.48
3:L:2503:LYS:O	3:L:2507:ILE:HG12	2.13	0.48
3:L:3880:ALA:HB2	3:L:3965:ARG:HH22	1.78	0.48
1:A:465:ILE:HG23	1:A:518:LEU:HD11	1.96	0.48
3:C:287:LEU:O	3:C:290:TYR:HD1	1.97	0.48
3:C:532:ARG:HG3	3:C:532:ARG:NH1	2.28	0.48
3:C:650:SER:O	3:C:653:LEU:N	2.45	0.48
3:C:828:LYS:HA	3:C:831:LEU:HD13	1.95	0.48
3:C:1017:ILE:HD13	3:C:1029:CYS:CB	2.44	0.48
3:C:1407:LYS:HA	3:C:1412:LYS:HE2	1.94	0.48
3:C:2936:TYR:HD2	3:C:2961:ALA:HA	1.79	0.48
3:C:3467:ARG:HA	3:C:3467:ARG:HD2	1.48	0.48
6:E:5:DA:H2'	6:E:6:DA:C8	2.49	0.48
8:I:140:MET:SD	8:I:140:MET:C	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:35:ARG:NH1	1:J:159:PHE:CG	2.81	0.48
1:J:488:ARG:O	1:J:491:GLU:N	2.47	0.48
2:K:352:GLN:OE1	2:K:354:ARG:NH1	2.45	0.48
2:K:391:ALA:O	2:K:408:ALA:N	2.44	0.48
2:K:523:THR:O	2:K:527:GLN:NE2	2.47	0.48
3:L:287:LEU:O	3:L:290:TYR:HD1	1.97	0.48
3:L:683:PHE:CD1	3:L:737:PRO:HG3	2.48	0.48
3:L:754:MET:HE3	3:L:1022:ASP:HA	1.96	0.48
3:L:1487:VAL:HG21	3:L:1563:PHE:HE2	1.79	0.48
3:L:2936:TYR:HD2	3:L:2961:ALA:HA	1.79	0.48
3:L:3729:MET:HE2	3:L:3805:TRP:HH2	1.74	0.48
5:M:27:DA:C4	5:M:28:DC:C5	3.02	0.48
6:N:5:DA:H2'	6:N:6:DA:C8	2.49	0.48
1:A:193:LEU:HA	1:A:196:THR:HG22	1.95	0.47
1:A:340:PHE:CE1	2:B:485:PRO:HB2	2.36	0.47
1:A:462:MET:HA	1:A:465:ILE:HD13	1.96	0.47
2:B:281:ALA:C	2:B:283:THR:H	2.22	0.47
3:C:290:TYR:CE2	3:C:291:VAL:HG13	2.49	0.47
3:C:1180:GLN:CD	3:C:1180:GLN:H	2.22	0.47
3:C:1595:ALA:HA	3:C:1598:ASN:ND2	2.29	0.47
3:C:1638:PRO:HB2	3:C:1640:GLU:OE2	2.14	0.47
3:C:2256:ILE:O	3:C:2259:LYS:N	2.46	0.47
3:C:3045:ILE:O	3:C:3049:LEU:HD23	2.14	0.47
3:C:3496:ILE:HD11	3:C:3528:ALA:CB	2.43	0.47
3:C:3856:MET:CE	3:C:4071:ALA:HB1	2.44	0.47
3:C:3915:HIS:O	3:C:3919:GLY:N	2.46	0.47
6:E:11:DC:C2	6:E:12:DT:C5	3.02	0.47
1:J:317:LYS:NZ	1:J:330:GLU:HA	2.28	0.47
2:K:54:ILE:N	2:K:84:MET:O	2.33	0.47
2:K:125:LYS:HG3	2:K:127:PHE:CE2	2.48	0.47
2:K:281:ALA:O	2:K:283:THR:N	2.47	0.47
2:K:447:THR:O	2:K:451:LEU:HG	2.14	0.47
2:K:459:ASP:O	2:K:462:SER:OG	2.24	0.47
3:L:290:TYR:CE2	3:L:291:VAL:HG13	2.48	0.47
3:L:716:VAL:HG22	3:L:1120:SER:O	2.14	0.47
3:L:1441:ALA:C	3:L:1443:VAL:H	2.21	0.47
3:L:3712:LEU:O	3:L:3714:GLU:N	2.46	0.47
3:L:3925:LEU:HD11	3:L:4128:MET:SD	2.53	0.47
5:M:23:DG:C2	5:M:24:DA:C4	3.02	0.47
6:N:11:DC:C2	6:N:12:DT:C5	3.02	0.47
1:A:480:ASN:ND2	1:A:483:LEU:H	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:661:PRO:O	3:C:662:LEU:HB2	2.14	0.47
3:C:709:LYS:HG2	3:C:1388:ASP:CB	2.44	0.47
3:C:1073:PHE:CE2	3:C:1121:LEU:HD13	2.49	0.47
5:D:23:DG:H2'	5:D:24:DA:H8	1.78	0.47
8:H:298:LEU:HD23	2:K:164:PHE:CE2	2.49	0.47
2:K:457:LEU:HD12	2:K:461:MET:HE2	1.96	0.47
2:K:486:ARG:NH1	6:N:19:DA:OP2	2.41	0.47
2:K:495:LEU:O	2:K:498:ALA:N	2.37	0.47
3:L:924:ARG:HD2	3:L:2597:PHE:CE1	2.48	0.47
3:L:1017:ILE:HD13	3:L:1029:CYS:CB	2.44	0.47
3:L:1388:ASP:OD1	3:L:1391:VAL:HB	2.15	0.47
3:L:1959:LEU:HA	3:L:1962:TYR:HB2	1.97	0.47
3:L:2377:ARG:C	3:L:2378:PHE:HD1	2.21	0.47
3:L:3531:TYR:HE1	3:L:3568:ILE:HG23	1.78	0.47
3:L:3915:HIS:O	3:L:3919:GLY:N	2.46	0.47
3:L:3999:THR:C	3:L:4001:THR:H	2.22	0.47
1:A:488:ARG:O	1:A:491:GLU:N	2.47	0.47
2:B:392:ILE:HD13	2:B:407:VAL:HA	1.95	0.47
3:C:1333:SER:O	3:C:1337:VAL:HG23	2.15	0.47
3:C:1538:LEU:HD12	3:C:1553:PHE:CE2	2.49	0.47
3:C:1661:PHE:C	3:C:1668:PHE:HE1	2.22	0.47
3:C:3721:GLY:O	3:C:3741:ARG:HG2	2.14	0.47
6:E:5:DA:C8	6:E:6:DA:N7	2.82	0.47
1:J:49:PHE:HZ	1:J:128:GLN:O	1.96	0.47
1:J:320:GLN:HG2	2:K:276:TRP:CZ3	2.49	0.47
1:J:463:LYS:HG2	2:K:387:LEU:HD11	1.96	0.47
2:K:440:ASN:O	2:K:442:LYS:N	2.43	0.47
3:L:2295:GLN:HE21	3:L:2298:GLU:HB2	1.78	0.47
3:L:3290:SER:OG	3:L:3291:GLN:N	2.48	0.47
3:L:3467:ARG:HD2	3:L:3467:ARG:HA	1.48	0.47
3:L:3575:LEU:O	3:L:3579:SER:OG	2.32	0.47
5:M:1:DT:N3	6:N:30:DA:N7	2.62	0.47
9:X:729:CYS:SG	9:X:736:VAL:HB	2.54	0.47
1:A:279:LYS:HB2	2:B:357:MET:SD	2.54	0.47
1:A:411:VAL:HG21	1:A:434:LEU:HB3	1.96	0.47
2:B:47:PHE:HZ	2:B:495:LEU:HB2	1.77	0.47
3:C:828:LYS:HA	3:C:831:LEU:CD1	2.45	0.47
3:C:1110:SER:O	3:C:1113:LEU:N	2.47	0.47
3:C:1694:THR:O	3:C:1697:PRO:HD2	2.14	0.47
3:C:1791:CYS:O	3:C:1795:VAL:HG23	2.14	0.47
3:C:2256:ILE:HG22	3:C:2260:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2311:ARG:HD3	3:C:2312:TYR:CE1	2.48	0.47
3:C:3274:VAL:HA	3:C:3277:VAL:HG12	1.97	0.47
3:C:3493:TRP:O	3:C:3496:ILE:HG22	2.14	0.47
1:J:405:ASN:CG	3:L:212:VAL:HG21	2.39	0.47
1:J:479:GLU:HG2	2:K:427:MET:HG2	1.96	0.47
2:K:68:LEU:HD12	2:K:113:VAL:HG22	1.96	0.47
2:K:358:GLY:CA	2:K:423:GLN:HB3	2.44	0.47
3:L:334:HIS:CD2	3:L:334:HIS:N	2.81	0.47
3:L:641:PHE:O	3:L:644:PRO:HD2	2.15	0.47
3:L:828:LYS:HA	3:L:831:LEU:HD13	1.96	0.47
3:L:861:SER:O	3:L:3167:ARG:NH1	2.34	0.47
3:L:1741:ASP:O	3:L:1745:LYS:HG2	2.15	0.47
3:L:3044:MET:O	3:L:3047:SER:OG	2.31	0.47
3:L:3493:TRP:O	3:L:3495:PHE:N	2.48	0.47
3:L:3721:GLY:O	3:L:3741:ARG:HG2	2.14	0.47
3:L:3731:SER:C	3:L:3734:ARG:HH11	2.22	0.47
5:M:8:DA:H2'	5:M:9:DC:C6	2.49	0.47
5:M:9:DC:H2''	5:M:10:DT:O4'	2.14	0.47
6:N:5:DA:C8	6:N:6:DA:N7	2.83	0.47
1:A:132:GLN:NE2	1:A:133:ASP:HB3	2.30	0.47
1:A:405:ASN:CG	3:C:212:VAL:HG21	2.40	0.47
2:B:24:ILE:HG22	2:B:26:GLY:H	1.79	0.47
3:C:1388:ASP:OD1	3:C:1391:VAL:HB	2.15	0.47
3:C:1795:VAL:HG12	3:C:1799:GLU:OE1	2.13	0.47
3:C:1946:ASN:HD21	3:C:2093:CYS:HA	1.80	0.47
3:C:2205:VAL:HG22	3:C:2208:ASP:HB2	1.96	0.47
3:C:2580:PRO:HD3	3:C:2784:GLN:CD	2.40	0.47
3:C:3172:LYS:HE3	3:C:3248:LYS:HE2	1.95	0.47
7:F:59:MET:O	7:F:60:ALA:HB3	2.14	0.47
1:J:400:TYR:CZ	1:J:402:PRO:HB3	2.49	0.47
1:J:480:ASN:ND2	1:J:483:LEU:H	2.12	0.47
2:K:489:ARG:NH1	2:K:493:CYS:HB2	2.28	0.47
3:L:709:LYS:HG2	3:L:1388:ASP:CB	2.44	0.47
3:L:1180:GLN:H	3:L:1180:GLN:CD	2.22	0.47
3:L:1694:THR:O	3:L:1697:PRO:HD2	2.14	0.47
3:L:2580:PRO:HD3	3:L:2784:GLN:CD	2.40	0.47
3:L:3155:VAL:HA	3:L:3158:LYS:NZ	2.30	0.47
3:L:3764:VAL:HA	3:L:3767:LEU:CD1	2.45	0.47
5:M:20:DG:C2	5:M:21:DT:C2	3.03	0.47
9:X:676:PRO:HA	9:X:679:GLU:OE2	2.15	0.47
1:A:329:LEU:HD21	2:B:493:CYS:SG	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:19:THR:OG1	2:B:137:ASP:OD2	2.29	0.47
2:B:57:VAL:HG22	2:B:79:VAL:HG22	1.96	0.47
2:B:299:ASP:HA	3:C:117:LYS:NZ	2.30	0.47
2:B:399:LYS:O	2:B:400:ARG:HG3	2.15	0.47
3:C:51:LEU:HD21	3:C:96:MET:CG	2.44	0.47
3:C:75:SER:O	3:C:82:ARG:NH2	2.48	0.47
3:C:2340:SER:O	3:C:2344:LEU:HD23	2.15	0.47
3:C:3031:TRP:HZ3	3:C:3074:GLN:O	1.98	0.47
3:C:3128:LYS:HD3	3:C:3128:LYS:HA	1.72	0.47
3:C:3493:TRP:O	3:C:3495:PHE:N	2.47	0.47
3:C:3575:LEU:O	3:C:3579:SER:OG	2.32	0.47
3:C:3760:GLN:O	3:C:3763:ARG:HG2	2.14	0.47
5:D:8:DA:H2'	5:D:9:DC:C6	2.49	0.47
2:K:6:ASN:OD1	2:K:7:LYS:N	2.47	0.47
2:K:399:LYS:O	2:K:400:ARG:HG3	2.15	0.47
3:L:220:LEU:HD22	3:L:267:VAL:HG13	1.95	0.47
3:L:327:VAL:HG21	3:L:337:LYS:HE3	1.97	0.47
3:L:828:LYS:HA	3:L:831:LEU:CD1	2.45	0.47
3:L:1060:PHE:HB3	3:L:1064:TYR:CE2	2.50	0.47
3:L:1638:PRO:HB2	3:L:1640:GLU:OE2	2.14	0.47
3:L:2581:LEU:CD1	3:L:2783:ILE:HG13	2.43	0.47
3:L:3835:PRO:O	3:L:3836:PRO:C	2.58	0.47
9:Y:722:LYS:HD3	9:Y:741:ARG:NH2	2.30	0.47
1:A:71:TYR:OH	1:A:111:PRO:HA	2.14	0.47
1:A:400:TYR:CZ	1:A:402:PRO:HB3	2.49	0.47
2:B:60:GLY:HA2	2:B:105:ALA:HB3	1.96	0.47
2:B:234:LEU:CD2	8:I:299:PHE:HE1	2.25	0.47
2:B:245:ILE:CD1	5:D:8:DA:H5'	2.43	0.47
2:B:249:CYS:O	2:B:261:ILE:HG22	2.15	0.47
2:B:341:SER:C	2:B:393:VAL:HG13	2.40	0.47
3:C:14:ARG:CZ	3:C:14:ARG:HB2	2.44	0.47
3:C:393:LYS:HA	3:C:396:PHE:CD1	2.50	0.47
3:C:641:PHE:O	3:C:644:PRO:HD2	2.14	0.47
3:C:659:ARG:HD2	3:C:660:LEU:HG	1.96	0.47
3:C:745:VAL:HG22	3:C:746:ARG:H	1.79	0.47
3:C:990:GLN:NE2	3:C:2778:GLY:O	2.47	0.47
3:C:1731:PRO:HA	3:C:1736:PHE:CD2	2.50	0.47
3:C:1769:GLU:O	3:C:1822:ARG:NH2	2.47	0.47
3:C:1834:ASP:HA	3:C:1837:ARG:NH1	2.29	0.47
3:C:1943:ALA:O	3:C:1946:ASN:N	2.48	0.47
3:C:2295:GLN:HE21	3:C:2298:GLU:HB2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3006:ALA:C	3:C:3008:TRP:HD1	2.22	0.47
3:C:3013:TYR:HE2	7:F:270:ARG:HA	1.79	0.47
3:C:3155:VAL:HA	3:C:3158:LYS:NZ	2.30	0.47
3:C:3290:SER:OG	3:C:3291:GLN:N	2.48	0.47
3:C:3572:ILE:HG12	3:C:3796:MET:HE2	1.97	0.47
3:C:3980:MET:O	3:C:3984:MET:HG2	2.15	0.47
5:D:9:DC:H2''	5:D:10:DT:O4'	2.14	0.47
7:F:140:LYS:HA	7:F:140:LYS:HE2	1.96	0.47
1:J:71:TYR:OH	1:J:111:PRO:HA	2.15	0.47
1:J:132:GLN:NE2	1:J:133:ASP:HB3	2.30	0.47
1:J:411:VAL:HG21	1:J:434:LEU:HB3	1.96	0.47
2:K:24:ILE:HG22	2:K:26:GLY:H	1.79	0.47
2:K:57:VAL:HG22	2:K:79:VAL:HG22	1.96	0.47
3:L:386:VAL:HG13	3:L:390:GLN:HE22	1.79	0.47
3:L:661:PRO:O	3:L:662:LEU:HB2	2.14	0.47
3:L:1350:ASN:CG	3:L:1405:ALA:HB1	2.40	0.47
3:L:1596:VAL:O	3:L:1600:MET:HG2	2.15	0.47
3:L:1747:LEU:HD21	3:L:1778:PHE:CD1	2.50	0.47
3:L:2157:PHE:CG	3:L:2164:TRP:HZ3	2.32	0.47
3:L:2205:VAL:HG22	3:L:2208:ASP:HB2	1.96	0.47
3:L:3045:ILE:O	3:L:3049:LEU:HD23	2.14	0.47
3:L:3585:PHE:CE2	3:L:3666:LEU:HD22	2.49	0.47
3:L:3771:MET:HE3	3:L:3991:PHE:CE1	2.48	0.47
9:Y:677:ASP:HA	9:Y:680:ASN:HB2	1.96	0.47
1:A:241:ASP:OD1	1:A:242:LEU:N	2.48	0.47
1:A:463:LYS:HG2	2:B:387:LEU:HD11	1.97	0.47
2:B:325:LYS:O	2:B:328:GLU:HB3	2.15	0.47
2:B:447:THR:O	2:B:451:LEU:HG	2.14	0.47
3:C:93:LEU:HD12	3:C:93:LEU:HA	1.70	0.47
3:C:238:MET:H	3:C:241:ASP:CG	2.22	0.47
3:C:789:TYR:HD2	3:C:866:ILE:HG23	1.80	0.47
3:C:2514:ASN:OD1	3:C:2516:GLY:N	2.40	0.47
3:C:2529:THR:HG23	3:C:2530:ARG:HD2	1.96	0.47
3:C:3519:GLU:CD	3:C:3557:ARG:HH12	2.23	0.47
3:C:3542:PHE:CZ	3:C:3555:VAL:HG21	2.49	0.47
3:C:3585:PHE:CE2	3:C:3666:LEU:HD22	2.49	0.47
3:C:3764:VAL:HA	3:C:3767:LEU:CD1	2.45	0.47
3:C:3813:LYS:HD3	3:C:3926:ASN:CG	2.40	0.47
2:K:47:PHE:CZ	2:K:495:LEU:HB2	2.49	0.47
2:K:60:GLY:HA2	2:K:105:ALA:HB3	1.96	0.47
3:L:51:LEU:HD21	3:L:96:MET:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:344:GLN:O	3:L:348:ILE:HG12	2.14	0.47
3:L:446:PHE:C	3:L:446:PHE:CD1	2.93	0.47
3:L:1142:HIS:CE1	3:L:1143:VAL:HG13	2.50	0.47
3:L:1769:GLU:O	3:L:1822:ARG:NH2	2.47	0.47
3:L:3157:LEU:O	3:L:3161:LEU:HD23	2.14	0.47
3:L:3274:VAL:HA	3:L:3277:VAL:HG12	1.97	0.47
9:X:663:GLU:HG3	9:X:697:THR:HA	1.95	0.47
9:Y:676:PRO:HA	9:Y:679:GLU:OE2	2.15	0.47
1:A:46:LYS:CE	1:A:137:HIS:HB3	2.45	0.47
1:A:78:SER:C	1:A:80:ARG:H	2.23	0.47
1:A:392:LYS:HZ2	2:B:459:ASP:CG	2.23	0.47
1:A:442:ASP:HB3	2:B:267:ILE:HG23	1.97	0.47
2:B:6:ASN:OD1	2:B:7:LYS:N	2.47	0.47
2:B:360:GLN:OE1	2:B:360:GLN:N	2.48	0.47
3:C:395:MET:HG2	3:C:413:PHE:CE1	2.50	0.47
3:C:1747:LEU:HD21	3:C:1778:PHE:CD1	2.50	0.47
3:C:1840:PHE:O	3:C:1844:VAL:HB	2.14	0.47
3:C:2157:PHE:CG	3:C:2164:TRP:HZ3	2.32	0.47
3:C:3157:LEU:O	3:C:3161:LEU:HD23	2.14	0.47
3:C:3389:VAL:HG23	3:C:3413:TYR:CE1	2.50	0.47
3:C:3835:PRO:O	3:C:3836:PRO:C	2.58	0.47
5:D:20:DG:C2	5:D:21:DT:C2	3.03	0.47
5:D:23:DG:C2	5:D:24:DA:C4	3.02	0.47
6:E:16:DA:H5'	6:E:16:DA:H8	1.79	0.47
7:F:40:HIS:CD2	7:G:120:ALA:HB2	2.50	0.47
8:H:298:LEU:HD12	2:K:41:PHE:CG	2.50	0.47
1:J:241:ASP:OD1	1:J:242:LEU:N	2.48	0.47
1:J:317:LYS:NZ	1:J:330:GLU:OE1	2.48	0.47
2:K:466:LYS:HD3	2:K:469:LYS:HA	1.97	0.47
3:L:1595:ALA:HA	3:L:1598:ASN:ND2	2.29	0.47
3:L:1791:CYS:O	3:L:1795:VAL:HG23	2.14	0.47
3:L:1935:GLU:HG2	3:L:1936:ARG:N	2.29	0.47
6:N:16:DA:C5'	6:N:16:DA:H8	2.28	0.47
6:N:28:DA:H2''	6:N:29:DG:C8	2.50	0.47
1:A:149:VAL:O	1:A:153:LEU:HD23	2.15	0.47
3:C:446:PHE:CD1	3:C:446:PHE:C	2.93	0.47
3:C:880:MET:HE2	3:C:880:MET:HA	1.97	0.47
3:C:1263:ALA:O	3:C:1266:CYS:N	2.45	0.47
3:C:1350:ASN:CG	3:C:1405:ALA:HB1	2.40	0.47
3:C:1705:GLY:O	3:C:1707:LEU:HD12	2.14	0.47
3:C:1741:ASP:O	3:C:1745:LYS:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2319:ALA:O	3:C:2323:LEU:HD23	2.14	0.47
3:C:2598:ARG:O	3:C:2598:ARG:NE	2.42	0.47
3:C:2745:ARG:O	3:C:2748:VAL:HG12	2.15	0.47
3:C:3650:LYS:O	3:C:3650:LYS:HD3	2.15	0.47
3:C:3958:LEU:O	3:C:3960:PRO:HD3	2.15	0.47
1:J:46:LYS:CE	1:J:137:HIS:HB3	2.45	0.47
1:J:416:GLN:N	1:J:431:GLY:O	2.45	0.47
1:J:442:ASP:HB3	2:K:267:ILE:HG23	1.97	0.47
2:K:237:PHE:CD2	2:K:491:PHE:HB2	2.51	0.47
3:L:82:ARG:O	3:L:85:ILE:HG22	2.16	0.47
3:L:393:LYS:HA	3:L:396:PHE:CD1	2.50	0.47
3:L:726:LEU:HD12	3:L:729:CYS:SG	2.55	0.47
3:L:1943:ALA:O	3:L:1946:ASN:N	2.48	0.47
3:L:2157:PHE:CG	3:L:2164:TRP:CZ3	3.03	0.47
3:L:2256:ILE:HG22	3:L:2260:PHE:HE2	1.80	0.47
3:L:2303:LEU:HG	3:L:2323:LEU:HD21	1.97	0.47
3:L:2411:LEU:HD21	3:L:2415:LEU:HD22	1.97	0.47
3:L:2600:THR:HG23	3:L:2601:VAL:HG13	1.97	0.47
3:L:3049:LEU:HD22	3:L:3061:LEU:CD2	2.45	0.47
3:L:3169:PRO:HB2	3:L:3179:TRP:CZ3	2.48	0.47
3:L:3742:GLY:O	3:L:3743:HIS:C	2.58	0.47
6:N:1:DG:C2	6:N:2:DT:C4	3.03	0.47
7:O:120:ALA:HB2	7:P:40:HIS:CD2	2.50	0.47
1:A:172:GLU:HG2	1:A:174:ASN:O	2.15	0.46
2:B:66:ASN:ND2	2:B:74:TYR:O	2.44	0.46
2:B:459:ASP:O	2:B:462:SER:OG	2.24	0.46
3:C:1184:ARG:HH12	3:C:1265:GLU:CG	2.28	0.46
3:C:2313:LYS:HA	3:C:2316:TYR:CE1	2.50	0.46
3:C:2349:LEU:CB	3:C:2378:PHE:HE2	2.29	0.46
3:C:2600:THR:HG23	3:C:2601:VAL:HG13	1.97	0.46
3:C:2931:ARG:HH12	3:C:2960:GLU:CD	2.23	0.46
5:D:5:DA:H2"	5:D:6:DG:H5"	1.97	0.46
1:J:142:SER:HA	1:J:182:LYS:CE	2.43	0.46
1:J:172:GLU:HG2	1:J:174:ASN:O	2.15	0.46
1:J:462:MET:HA	1:J:465:ILE:HD13	1.96	0.46
1:J:465:ILE:HG23	1:J:518:LEU:HD11	1.96	0.46
3:L:880:MET:HE2	3:L:880:MET:HA	1.97	0.46
3:L:886:TRP:CH2	3:L:964:ARG:HG2	2.50	0.46
3:L:2153:THR:HG22	3:L:2153:THR:O	2.15	0.46
3:L:2153:THR:HG22	3:L:2156:VAL:HB	1.96	0.46
3:L:2281:MET:SD	3:L:2285:LEU:HG	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2398:LEU:HD23	3:L:2398:LEU:HA	1.77	0.46
3:L:3196:LYS:HD2	3:L:3196:LYS:C	2.40	0.46
3:L:3650:LYS:O	3:L:3650:LYS:HD3	2.15	0.46
3:L:3958:LEU:O	3:L:3960:PRO:HD3	2.15	0.46
6:N:16:DA:H8	6:N:16:DA:H5'	1.79	0.46
1:A:68:GLN:NE2	1:A:120:ASP:HA	2.30	0.46
2:B:237:PHE:CD2	2:B:491:PHE:HB2	2.51	0.46
2:B:393:VAL:HG12	2:B:394:ARG:O	2.15	0.46
3:C:376:ILE:HG13	3:C:377:ASN:N	2.30	0.46
3:C:386:VAL:HG13	3:C:390:GLN:HE22	1.79	0.46
3:C:716:VAL:HG22	3:C:1120:SER:O	2.14	0.46
3:C:717:LYS:HB3	3:C:721:TYR:OH	2.15	0.46
3:C:726:LEU:HD12	3:C:729:CYS:SG	2.55	0.46
3:C:1060:PHE:HB3	3:C:1064:TYR:CE2	2.50	0.46
3:C:1342:MET:O	3:C:1345:THR:OG1	2.34	0.46
3:C:2153:THR:HG22	3:C:2156:VAL:HB	1.96	0.46
3:C:2281:MET:SD	3:C:2285:LEU:HG	2.56	0.46
3:C:2411:LEU:HD21	3:C:2415:LEU:HD22	1.97	0.46
3:C:2956:ALA:HB1	3:C:2972:TYR:CE2	2.50	0.46
3:C:3012:GLU:HG3	3:C:3048:LYS:HD3	1.97	0.46
3:C:3196:LYS:HD2	3:C:3196:LYS:C	2.40	0.46
3:C:3486:GLU:C	3:C:3488:SER:N	2.71	0.46
3:C:3742:GLY:O	3:C:3743:HIS:C	2.59	0.46
2:K:281:ALA:C	2:K:283:THR:H	2.22	0.46
3:L:75:SER:O	3:L:82:ARG:NH2	2.48	0.46
3:L:236:LYS:N	3:L:281:GLN:OE1	2.42	0.46
3:L:1333:SER:O	3:L:1337:VAL:HG23	2.15	0.46
3:L:3813:LYS:HD3	3:L:3926:ASN:CG	2.40	0.46
2:B:230:SER:O	2:B:234:LEU:HB2	2.16	0.46
2:B:492:GLN:OE1	2:B:509:GLN:HG3	2.15	0.46
3:C:358:GLU:O	3:C:361:ILE:HG22	2.16	0.46
3:C:664:SER:O	3:C:666:PHE:N	2.49	0.46
3:C:745:VAL:C	3:C:747:ALA:H	2.23	0.46
3:C:748:TYR:O	3:C:751:ALA:N	2.48	0.46
3:C:1601:LEU:HD21	3:C:1622:ILE:HD11	1.97	0.46
3:C:2572:TYR:CE2	3:C:2791:ILE:HD11	2.50	0.46
3:C:3031:TRP:N	3:C:3031:TRP:HD1	2.14	0.46
3:C:3049:LEU:HD22	3:C:3061:LEU:CD2	2.45	0.46
3:C:3247:ARG:HG2	3:C:3247:ARG:HH11	1.79	0.46
3:C:3374:ILE:HG13	3:C:3375:ALA:N	2.30	0.46
3:C:3731:SER:C	3:C:3734:ARG:HH11	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:68:GLN:NE2	1:J:120:ASP:HA	2.30	0.46
2:K:249:CYS:O	2:K:261:ILE:HG22	2.15	0.46
3:L:948:MET:SD	3:L:950:GLU:N	2.89	0.46
3:L:2122:LEU:HB3	3:L:2123:PRO:CD	2.46	0.46
3:L:2572:TYR:CE2	3:L:2791:ILE:HD11	2.50	0.46
3:L:2924:VAL:HG11	3:L:2989:ALA:HB1	1.97	0.46
3:L:3856:MET:CE	3:L:4071:ALA:HB1	2.44	0.46
7:O:134:ILE:HG12	7:P:134:ILE:CA	2.44	0.46
1:A:241:ASP:HA	1:A:244:ARG:HG2	1.96	0.46
1:A:521:LEU:HA	1:A:524:GLU:CD	2.41	0.46
2:B:399:LYS:HG3	2:B:400:ARG:H	1.80	0.46
2:B:457:LEU:HD12	2:B:461:MET:HE2	1.96	0.46
2:B:466:LYS:HD3	2:B:469:LYS:HA	1.98	0.46
3:C:975:ASP:OD1	3:C:976:VAL:N	2.44	0.46
3:C:1267:TYR:CD1	3:C:1270:PHE:CE2	3.04	0.46
3:C:1931:ASN:HB3	3:C:1934:LEU:HD22	1.97	0.46
3:C:2153:THR:HG22	3:C:2153:THR:O	2.15	0.46
3:C:2856:SER:HB3	3:C:2885:GLN:CD	2.41	0.46
3:C:3447:VAL:HG13	3:C:3448:GLU:N	2.31	0.46
3:C:3767:LEU:HD21	3:C:4002:MET:SD	2.56	0.46
7:G:91:GLU:H	7:G:91:GLU:CD	2.22	0.46
8:H:296:ARG:HA	8:H:300:SER:HB3	1.97	0.46
1:J:480:ASN:HB2	2:K:428:GLU:OE2	2.16	0.46
2:K:299:ASP:HA	3:L:117:LYS:NZ	2.30	0.46
2:K:393:VAL:HG12	2:K:394:ARG:O	2.15	0.46
3:L:55:THR:HG22	3:L:92:PHE:CZ	2.51	0.46
3:L:748:TYR:O	3:L:751:ALA:N	2.48	0.46
3:L:864:GLY:HA2	3:L:867:ASN:CG	2.40	0.46
3:L:1653:LEU:HB3	3:L:1698:PHE:CE2	2.51	0.46
3:L:1707:LEU:O	3:L:1710:LEU:HB3	2.16	0.46
3:L:2417:SER:OG	3:L:2418:LYS:N	2.46	0.46
3:L:3389:VAL:HG23	3:L:3413:TYR:CE1	2.50	0.46
3:L:3572:ILE:HG12	3:L:3796:MET:HE2	1.97	0.46
6:N:10:DA:H2'	6:N:11:DC:C5	2.51	0.46
9:X:668:SER:OG	9:X:703:GLY:N	2.49	0.46
9:X:669:GLY:HA2	9:X:703:GLY:HA3	1.98	0.46
1:A:317:LYS:NZ	1:A:330:GLU:OE1	2.48	0.46
1:A:356:LEU:HD12	1:A:437:LEU:HD21	1.98	0.46
3:C:327:VAL:HG21	3:C:337:LYS:HE3	1.96	0.46
3:C:462:VAL:HG22	3:C:534:LEU:HD13	1.98	0.46
3:C:948:MET:SD	3:C:950:GLU:N	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:985:GLU:HG3	3:C:1028:PHE:CE1	2.51	0.46
3:C:1142:HIS:CE1	3:C:1143:VAL:HG13	2.50	0.46
3:C:1265:GLU:O	3:C:1268:ASN:HB2	2.15	0.46
3:C:2358:ASP:OD1	3:C:2359:LYS:HG2	2.16	0.46
3:C:3343:SER:OG	3:C:3344:GLU:N	2.45	0.46
7:F:107:ARG:CG	8:H:64:ARG:HD2	2.45	0.46
2:K:48:ALA:HB2	2:K:238:LYS:HD2	1.98	0.46
2:K:164:PHE:HB3	2:K:227:PHE:HE1	1.79	0.46
3:L:51:LEU:O	3:L:55:THR:HG23	2.15	0.46
3:L:376:ILE:HG13	3:L:377:ASN:N	2.30	0.46
3:L:717:LYS:HB3	3:L:721:TYR:OH	2.15	0.46
3:L:1684:LEU:HD21	3:L:1689:LYS:HE3	1.97	0.46
3:L:1828:LEU:HD21	3:L:1839:PHE:CE2	2.51	0.46
3:L:2313:LYS:HA	3:L:2316:TYR:CE1	2.50	0.46
3:L:2340:SER:O	3:L:2344:LEU:HD23	2.15	0.46
3:L:3491:PRO:HB3	3:L:3493:TRP:CH2	2.51	0.46
3:L:3704:GLN:OE1	3:L:3716:HIS:HB3	2.16	0.46
3:L:3758:LEU:O	3:L:3761:ASP:N	2.49	0.46
3:L:3811:THR:HB	3:L:3814:ASP:HB2	1.97	0.46
3:L:3980:MET:O	3:L:3984:MET:HG2	2.15	0.46
5:M:23:DG:H2'	5:M:24:DA:H8	1.78	0.46
6:N:18:DC:H2''	6:N:19:DA:O5'	2.15	0.46
1:A:320:GLN:HG2	2:B:276:TRP:CZ3	2.49	0.46
2:B:68:LEU:HD12	2:B:113:VAL:HG22	1.96	0.46
3:C:886:TRP:CH2	3:C:964:ARG:HG2	2.50	0.46
3:C:1344:PHE:HE1	3:C:1348:LEU:HD13	1.79	0.46
3:C:2256:ILE:HG22	3:C:2260:PHE:HE2	1.80	0.46
3:C:3961:PHE:CE2	3:C:4107:LEU:HG	2.51	0.46
5:D:28:DC:N3	5:D:29:DA:C5	2.84	0.46
2:K:15:ASP:OD1	2:K:16:VAL:N	2.49	0.46
2:K:19:THR:OG1	2:K:137:ASP:OD2	2.29	0.46
2:K:360:GLN:N	2:K:360:GLN:OE1	2.48	0.46
2:K:399:LYS:HG3	2:K:400:ARG:H	1.80	0.46
3:L:664:SER:O	3:L:666:PHE:N	2.49	0.46
3:L:1135:CYS:O	3:L:1138:ILE:HG12	2.16	0.46
3:L:1601:LEU:HD21	3:L:1622:ILE:HD11	1.97	0.46
3:L:1849:ASP:HA	3:L:1852:LYS:HG2	1.98	0.46
3:L:2529:THR:HG23	3:L:2530:ARG:HD2	1.96	0.46
3:L:2569:SER:OG	3:L:2570:PRO:HD2	2.15	0.46
3:L:3425:ARG:NE	3:L:3425:ARG:HA	2.31	0.46
3:L:3961:PHE:CE2	3:L:4107:LEU:HG	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:34:ILE:HD13	7:O:35:THR:N	2.31	0.46
1:A:480:ASN:HB2	2:B:428:GLU:OE2	2.15	0.46
2:B:15:ASP:OD1	2:B:16:VAL:N	2.49	0.46
2:B:364:VAL:N	2:B:419:LEU:O	2.33	0.46
3:C:864:GLY:HA2	3:C:867:ASN:CG	2.40	0.46
3:C:1082:PHE:CB	3:C:1107:TYR:HE2	2.29	0.46
3:C:1596:VAL:O	3:C:1600:MET:HG2	2.15	0.46
3:C:3183:ILE:HD12	3:C:3238:MET:HG2	1.98	0.46
3:C:3758:LEU:O	3:C:3761:ASP:N	2.49	0.46
2:K:230:SER:O	2:K:234:LEU:HB2	2.16	0.46
2:K:273:LYS:HD3	2:K:273:LYS:HA	1.67	0.46
2:K:325:LYS:O	2:K:328:GLU:HB3	2.15	0.46
3:L:53:LEU:HD22	3:L:3101:TYR:CE2	2.51	0.46
3:L:391:ARG:HG2	3:L:1737:ASN:HD21	1.80	0.46
3:L:429:GLU:HA	3:L:432:THR:OG1	2.16	0.46
3:L:659:ARG:HD2	3:L:660:LEU:HG	1.96	0.46
3:L:737:PRO:O	3:L:741:ILE:HG12	2.16	0.46
3:L:1946:ASN:HD21	3:L:2093:CYS:HA	1.80	0.46
3:L:2316:TYR:CG	3:L:2317:ALA:N	2.84	0.46
3:L:2956:ALA:HB1	3:L:2972:TYR:CE2	2.50	0.46
3:L:3012:GLU:HG3	3:L:3048:LYS:HD3	1.97	0.46
3:L:3374:ILE:HG13	3:L:3375:ALA:N	2.30	0.46
3:L:3502:MET:SD	3:L:3502:MET:N	2.85	0.46
3:L:3519:GLU:CD	3:L:3557:ARG:HH12	2.23	0.46
5:M:5:DA:H2''	5:M:6:DG:H5''	1.97	0.46
9:X:692:ASN:OD1	9:X:693:PRO:HD2	2.15	0.46
9:X:722:LYS:HG3	9:X:725:TRP:H	1.81	0.46
9:Y:692:ASN:OD1	9:Y:693:PRO:HD2	2.15	0.46
1:A:479:GLU:HG2	2:B:427:MET:HG2	1.97	0.46
2:B:478:PRO:C	2:B:480:THR:N	2.74	0.46
3:C:82:ARG:O	3:C:85:ILE:HG22	2.16	0.46
3:C:737:PRO:O	3:C:741:ILE:HG12	2.16	0.46
3:C:2303:LEU:HG	3:C:2323:LEU:HD21	1.97	0.46
3:C:3704:GLN:OE1	3:C:3716:HIS:HB3	2.16	0.46
6:E:1:DG:C2	6:E:2:DT:C4	3.03	0.46
6:E:16:DA:H8	6:E:16:DA:C5'	2.28	0.46
6:E:28:DA:H2''	6:E:29:DG:C8	2.50	0.46
1:J:480:ASN:CG	1:J:483:LEU:H	2.24	0.46
2:K:35:LYS:HZ1	2:K:94:ILE:C	2.23	0.46
2:K:245:ILE:CD1	5:M:8:DA:H5'	2.43	0.46
2:K:357:MET:HE2	2:K:425:PRO:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:286:LEU:HD12	3:L:319:PHE:HE1	1.81	0.46
3:L:759:GLY:HA3	3:L:766:ALA:HB2	1.98	0.46
3:L:863:GLY:O	3:L:867:ASN:N	2.43	0.46
3:L:1649:LEU:HD22	3:L:1675:TYR:OH	2.15	0.46
3:L:2349:LEU:CB	3:L:2378:PHE:HE2	2.29	0.46
3:L:2459:VAL:HA	3:L:2473:MET:HE3	1.98	0.46
3:L:3013:TYR:HE2	7:P:270:ARG:HA	1.80	0.46
3:L:3031:TRP:HZ3	3:L:3074:GLN:O	1.98	0.46
3:L:3705:TYR:HE1	3:L:3716:HIS:NE2	2.13	0.46
3:L:3884:LYS:O	3:L:3888:VAL:HG23	2.16	0.46
1:A:216:PHE:CD2	1:A:217:TYR:CE1	3.04	0.46
3:C:1277:GLY:O	3:C:1281:VAL:HG23	2.16	0.46
3:C:1653:LEU:HB3	3:C:1698:PHE:CE2	2.51	0.46
3:C:2551:GLU:OE2	3:C:2854:PHE:HB3	2.16	0.46
3:C:3239:LYS:HD2	3:C:3262:LEU:HD21	1.98	0.46
7:G:34:ILE:HD13	7:G:35:THR:N	2.30	0.46
1:J:241:ASP:HA	1:J:244:ARG:HG2	1.96	0.46
3:L:14:ARG:HB2	3:L:14:ARG:CZ	2.44	0.46
3:L:462:VAL:HG22	3:L:534:LEU:HD13	1.98	0.46
3:L:733:LEU:O	3:L:735:SER:N	2.49	0.46
3:L:1264:LEU:HD11	3:L:1293:ALA:HB2	1.98	0.46
3:L:1370:ARG:HA	3:L:1373:VAL:HG12	1.98	0.46
3:L:1379:PRO:HB2	3:L:1384:PHE:CG	2.50	0.46
3:L:1731:PRO:HA	3:L:1736:PHE:CD2	2.50	0.46
3:L:2745:ARG:O	3:L:2748:VAL:HG12	2.15	0.46
3:L:3256:MET:SD	3:L:3287:ARG:NH1	2.89	0.46
3:L:3794:VAL:HG13	3:L:3794:VAL:O	2.16	0.46
9:X:667:MET:HE1	9:X:712:ILE:HD13	1.98	0.46
9:X:677:ASP:HA	9:X:680:ASN:HB2	1.96	0.46
1:A:45:SER:HA	1:A:138:GLY:HA3	1.97	0.46
2:B:54:ILE:N	2:B:84:MET:O	2.33	0.46
3:C:268:PRO:O	3:C:272:LEU:HD23	2.16	0.46
3:C:949:PRO:CB	3:L:2579:HIS:CD2	2.89	0.46
3:C:1354:GLU:OE1	3:C:1357:LYS:HG2	2.16	0.46
3:C:1649:LEU:HD22	3:C:1675:TYR:OH	2.16	0.46
3:C:1705:GLY:C	3:C:1707:LEU:H	2.24	0.46
3:C:1828:LEU:HD21	3:C:1839:PHE:CE2	2.51	0.46
3:C:1849:ASP:HA	3:C:1852:LYS:HG2	1.98	0.46
3:C:1855:PHE:HB3	3:C:1870:LYS:NZ	2.31	0.46
3:C:2157:PHE:CG	3:C:2164:TRP:CZ3	3.03	0.46
3:C:2316:TYR:CG	3:C:2317:ALA:N	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2472:GLN:HA	3:C:2472:GLN:OE1	2.16	0.46
3:C:3341:LEU:HD23	3:C:3348:LEU:HD13	1.98	0.46
3:C:3472:ILE:HD11	3:C:3482:LEU:HD22	1.98	0.46
1:J:247:ARG:HD2	1:J:488:ARG:NH1	2.31	0.46
2:K:492:GLN:OE1	2:K:509:GLN:HG3	2.15	0.46
2:K:496:HIS:ND1	2:K:506:PRO:HD3	2.31	0.46
3:L:852:ARG:HG2	3:L:3111:MET:HE1	1.97	0.46
3:L:1171:TRP:NE1	3:L:1175:HIS:NE2	2.64	0.46
3:L:1332:TYR:O	3:L:1336:THR:HG23	2.16	0.46
3:L:2358:ASP:OD1	3:L:2359:LYS:HG2	2.16	0.46
3:L:3031:TRP:N	3:L:3031:TRP:HD1	2.14	0.46
3:L:3472:ILE:HD11	3:L:3482:LEU:HD22	1.98	0.46
3:L:3767:LEU:HD21	3:L:4002:MET:SD	2.56	0.46
9:Y:668:SER:OG	9:Y:703:GLY:N	2.49	0.46
1:A:335:GLU:OE1	3:C:213:ARG:NH1	2.47	0.45
2:B:273:LYS:HD3	2:B:273:LYS:HA	1.67	0.45
2:B:440:ASN:O	2:B:442:LYS:N	2.43	0.45
3:C:55:THR:HG22	3:C:92:PHE:CZ	2.51	0.45
3:C:429:GLU:HA	3:C:432:THR:OG1	2.16	0.45
3:C:792:ILE:HG23	3:C:793:LEU:HD22	1.99	0.45
3:C:899:ARG:HB2	3:C:899:ARG:CZ	2.46	0.45
3:C:1379:PRO:HB2	3:C:1384:PHE:CG	2.50	0.45
3:C:1395:LEU:HB3	3:C:1396:PRO:HD3	1.98	0.45
3:C:1684:LEU:HD21	3:C:1689:LYS:HE3	1.97	0.45
3:C:1806:ARG:CZ	3:C:1806:ARG:HB3	2.46	0.45
3:C:1913:LYS:HD2	3:C:1913:LYS:N	2.31	0.45
3:C:3172:LYS:O	3:C:3249:GLN:NE2	2.49	0.45
3:C:3250:ASN:HA	3:C:3252:PHE:HE1	1.80	0.45
3:C:3425:ARG:NE	3:C:3425:ARG:HA	2.31	0.45
3:C:3884:LYS:O	3:C:3888:VAL:HG23	2.16	0.45
6:E:18:DC:H2''	6:E:19:DA:O5'	2.15	0.45
1:J:38:LEU:HB3	1:J:83:LEU:HD13	1.98	0.45
1:J:264:ASN:OD1	1:J:267:ILE:N	2.37	0.45
1:J:392:LYS:HZ2	2:K:459:ASP:CG	2.24	0.45
2:K:341:SER:C	2:K:393:VAL:HG13	2.40	0.45
3:L:395:MET:HG2	3:L:413:PHE:CE1	2.50	0.45
3:L:536:SER:O	3:L:538:ASP:N	2.49	0.45
3:L:1135:CYS:O	3:L:1139:GLU:OE1	2.34	0.45
3:L:1344:PHE:HE1	3:L:1348:LEU:HD13	1.80	0.45
3:L:1354:GLU:OE1	3:L:1357:LYS:HG2	2.17	0.45
3:L:1668:PHE:O	3:L:1671:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2514:ASN:OD1	3:L:2516:GLY:N	2.40	0.45
3:L:2551:GLU:OE2	3:L:2854:PHE:HB3	2.16	0.45
3:L:2589:TYR:HE1	3:L:2777:HIS:HB2	1.81	0.45
3:L:2856:SER:HB3	3:L:2885:GLN:CD	2.41	0.45
3:L:2976:LEU:CD1	7:P:271:LYS:HE3	2.46	0.45
3:L:3172:LYS:O	3:L:3249:GLN:NE2	2.49	0.45
3:L:3183:ILE:HD12	3:L:3238:MET:HG2	1.98	0.45
3:L:3575:LEU:HD13	3:L:3575:LEU:HA	1.75	0.45
5:M:22:DA:C6	6:N:8:DC:N4	2.84	0.45
5:M:28:DC:N3	5:M:29:DA:C5	2.84	0.45
1:A:74:LYS:HA	1:A:77:SER:OG	2.17	0.45
1:A:247:ARG:HD2	1:A:488:ARG:NH1	2.31	0.45
1:A:407:PRO:HG3	2:B:486:ARG:CD	2.46	0.45
2:B:365:PHE:CE1	2:B:418:CYS:HA	2.51	0.45
3:C:51:LEU:O	3:C:55:THR:HG23	2.15	0.45
3:C:53:LEU:HD22	3:C:3101:TYR:CE2	2.51	0.45
3:C:852:ARG:HG2	3:C:3111:MET:HE1	1.97	0.45
3:C:3389:VAL:O	3:C:3392:ALA:N	2.49	0.45
3:C:3705:TYR:HE1	3:C:3716:HIS:NE2	2.13	0.45
3:C:3794:VAL:HG13	3:C:3794:VAL:O	2.16	0.45
5:D:26:DT:C2	5:D:27:DA:N7	2.84	0.45
1:J:267:ILE:HD11	2:K:534:LYS:HG2	1.98	0.45
3:L:268:PRO:O	3:L:272:LEU:HD23	2.16	0.45
3:L:749:VAL:N	3:L:750:PRO:HD2	2.31	0.45
3:L:1267:TYR:CD1	3:L:1270:PHE:CE2	3.04	0.45
3:L:1395:LEU:HB3	3:L:1396:PRO:HD3	1.98	0.45
3:L:1443:VAL:CG1	3:L:1447:ARG:HH22	2.29	0.45
3:L:1705:GLY:C	3:L:1707:LEU:H	2.24	0.45
3:L:2976:LEU:HD12	7:P:271:LYS:HE3	1.98	0.45
3:L:3530:VAL:HG11	3:L:3568:ILE:HD13	1.98	0.45
1:A:71:TYR:O	1:A:75:ILE:HG12	2.16	0.45
1:A:370:PRO:HG3	1:A:382:PHE:CD1	2.51	0.45
3:C:182:GLY:HA2	3:C:189:MET:HG3	1.98	0.45
3:C:382:ASP:O	3:C:386:VAL:HG23	2.17	0.45
3:C:1014:LEU:HD22	3:C:1033:ILE:HD11	1.99	0.45
3:C:1509:GLN:O	3:C:1512:SER:OG	2.30	0.45
3:C:2122:LEU:HB3	3:C:2123:PRO:CD	2.46	0.45
3:C:3008:TRP:N	3:C:3008:TRP:HD1	2.14	0.45
3:C:3791:TYR:HB3	3:C:3806:LEU:HD21	1.98	0.45
3:C:4068:HIS:HD2	3:C:4071:ALA:HB3	1.81	0.45
5:D:15:DT:N3	5:D:16:DG:C5	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:10:DA:H2'	6:E:11:DC:C5	2.51	0.45
2:K:104:GLN:NE2	2:K:139:SER:OG	2.50	0.45
2:K:365:PHE:CE1	2:K:418:CYS:HA	2.51	0.45
3:L:93:LEU:HA	3:L:93:LEU:HD12	1.70	0.45
3:L:358:GLU:O	3:L:361:ILE:HG22	2.16	0.45
3:L:733:LEU:C	3:L:735:SER:H	2.25	0.45
3:L:1582:LEU:O	3:L:1586:SER:OG	2.27	0.45
3:L:1801:VAL:HG11	3:L:1827:LEU:HD23	1.98	0.45
3:L:1913:LYS:HD2	3:L:1913:LYS:N	2.31	0.45
3:L:2472:GLN:OE1	3:L:2472:GLN:HA	2.17	0.45
3:L:3447:VAL:HG13	3:L:3448:GLU:N	2.30	0.45
3:L:3477:GLU:HB3	3:L:3478:GLU:OE2	2.16	0.45
3:L:3748:HIS:HB3	3:L:3750:PHE:CZ	2.51	0.45
3:L:4068:HIS:HD2	3:L:4071:ALA:HB3	1.81	0.45
5:M:15:DT:N3	5:M:16:DG:C5	2.84	0.45
9:Y:679:GLU:HA	9:Y:682:ILE:HB	1.98	0.45
2:B:357:MET:HE2	2:B:425:PRO:HA	1.98	0.45
2:B:423:GLN:NE2	2:B:424:LEU:O	2.48	0.45
2:B:496:HIS:ND1	2:B:506:PRO:HD3	2.31	0.45
3:C:759:GLY:HA3	3:C:766:ALA:HB2	1.98	0.45
3:C:1079:SER:O	3:C:1082:PHE:N	2.49	0.45
3:C:1135:CYS:O	3:C:1138:ILE:HG12	2.16	0.45
3:C:3510:GLN:O	3:C:3513:ALA:N	2.29	0.45
3:C:3530:VAL:HG11	3:C:3568:ILE:HD13	1.99	0.45
3:C:3754:GLY:O	3:C:3756:GLU:N	2.50	0.45
8:I:194:MET:N	8:I:194:MET:SD	2.89	0.45
1:J:335:GLU:OE1	3:L:213:ARG:NH1	2.47	0.45
1:J:386:LEU:HD12	1:J:415:PRO:HB3	1.98	0.45
2:K:441:SER:OG	2:K:444:TYR:HB2	2.16	0.45
2:K:482:ILE:HD11	2:K:515:MET:HG2	1.99	0.45
3:L:382:ASP:O	3:L:386:VAL:HG23	2.17	0.45
3:L:1184:ARG:HH12	3:L:1265:GLU:CG	2.28	0.45
3:L:1966:LEU:HD12	3:L:1966:LEU:HA	1.79	0.45
3:L:3239:LYS:HD2	3:L:3262:LEU:HD21	1.98	0.45
3:L:3250:ASN:HA	3:L:3252:PHE:HE1	1.80	0.45
5:M:26:DT:C2	5:M:27:DA:N7	2.84	0.45
1:A:352:PRO:O	1:A:354:VAL:N	2.50	0.45
2:B:319:ASP:OD1	2:B:319:ASP:N	2.45	0.45
2:B:421:TYR:CD1	2:B:422:VAL:N	2.85	0.45
3:C:56:SER:CB	3:C:3098:ARG:HG3	2.47	0.45
3:C:749:VAL:N	3:C:750:PRO:HD2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:992:ILE:HG13	3:C:1032:CYS:SG	2.57	0.45
3:C:2506:LEU:HD22	3:C:2525:TRP:HE1	1.81	0.45
3:C:2521:ILE:O	3:C:2524:PHE:HB3	2.17	0.45
3:C:3477:GLU:HB3	3:C:3478:GLU:OE2	2.16	0.45
3:C:3491:PRO:HB3	3:C:3493:TRP:CH2	2.51	0.45
3:C:3498:TRP:HZ3	3:C:3501:HIS:HB3	1.80	0.45
8:I:67:ALA:HB3	8:I:72:PHE:CE2	2.52	0.45
1:J:45:SER:HA	1:J:138:GLY:HA3	1.97	0.45
1:J:78:SER:C	1:J:80:ARG:H	2.23	0.45
1:J:216:PHE:CD2	1:J:217:TYR:CE1	3.04	0.45
1:J:352:PRO:O	1:J:354:VAL:N	2.50	0.45
1:J:356:LEU:HD12	1:J:437:LEU:HD21	1.98	0.45
1:J:521:LEU:HA	1:J:524:GLU:CD	2.41	0.45
3:L:56:SER:CB	3:L:3098:ARG:HG3	2.47	0.45
3:L:1212:LEU:O	3:L:1216:GLY:N	2.50	0.45
3:L:1277:GLY:O	3:L:1281:VAL:HG23	2.16	0.45
3:L:3071:GLY:O	3:L:3074:GLN:HB2	2.17	0.45
3:L:3487:ILE:HA	3:L:3490:VAL:HG23	1.98	0.45
3:L:3754:GLY:O	3:L:3756:GLU:N	2.50	0.45
1:A:259:LEU:HB3	1:A:344:GLY:HA2	1.98	0.45
2:B:246:HIS:CD2	2:B:368:ARG:HH12	2.35	0.45
3:C:443:ILE:HD12	3:C:530:LEU:HD21	1.99	0.45
3:C:703:CYS:O	3:C:706:LEU:HG	2.17	0.45
3:C:1178:ARG:HD3	3:C:1183:CYS:SG	2.57	0.45
3:C:1668:PHE:O	3:C:1671:VAL:HG12	2.16	0.45
3:C:1684:LEU:HD23	3:C:1684:LEU:H	1.81	0.45
3:C:3145:ILE:HA	3:C:3151:LEU:HD11	1.98	0.45
3:C:3472:ILE:CD1	3:C:3482:LEU:HD22	2.47	0.45
3:C:3687:MET:N	3:C:3687:MET:SD	2.90	0.45
1:J:171:ASN:N	1:J:171:ASN:OD1	2.48	0.45
3:L:757:LYS:O	3:L:760:LEU:HG	2.17	0.45
3:L:894:PHE:CE1	3:L:2576:MET:HE3	2.52	0.45
3:L:1684:LEU:HD23	3:L:1684:LEU:H	1.81	0.45
3:L:1931:ASN:HB3	3:L:1934:LEU:HD22	1.97	0.45
3:L:2163:HIS:O	3:L:2164:TRP:HD1	2.00	0.45
3:L:2357:GLU:HB3	3:L:2389:PHE:CZ	2.52	0.45
3:L:2931:ARG:HH12	3:L:2960:GLU:CD	2.23	0.45
3:L:3238:MET:HE3	3:L:3238:MET:HB2	1.75	0.45
3:L:3341:LEU:HD23	3:L:3348:LEU:HD13	1.98	0.45
3:L:3451:LEU:HD11	3:L:3468:LEU:HD22	1.99	0.45
3:L:3472:ILE:CD1	3:L:3482:LEU:HD22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3731:SER:O	3:L:3734:ARG:NE	2.44	0.45
3:L:3751:LEU:O	3:L:3751:LEU:HD23	2.17	0.45
3:L:3821:SER:HB3	3:L:3824:GLU:OE1	2.17	0.45
5:M:21:DT:C2	5:M:22:DA:N7	2.85	0.45
9:Y:681:ARG:NH2	9:Y:731:LYS:HE3	2.31	0.45
1:A:290:ARG:CZ	9:X:694:GLY:HA3	2.47	0.45
2:B:482:ILE:HD11	2:B:515:MET:HG3	1.99	0.45
3:C:115:TYR:HE2	3:C:159:GLU:HG3	1.82	0.45
3:C:334:HIS:N	3:C:334:HIS:CD2	2.81	0.45
3:C:733:LEU:C	3:C:735:SER:H	2.25	0.45
3:C:757:LYS:O	3:C:760:LEU:HG	2.17	0.45
3:C:894:PHE:CE1	3:C:2576:MET:HE3	2.52	0.45
3:C:1264:LEU:HD11	3:C:1293:ALA:HB2	1.98	0.45
3:C:1565:GLU:HG2	3:C:1566:THR:N	2.32	0.45
3:C:1707:LEU:O	3:C:1710:LEU:HB3	2.16	0.45
3:C:3133:GLN:OE1	3:C:3133:GLN:HA	2.16	0.45
3:C:3448:GLU:O	3:C:3452:LYS:HB2	2.17	0.45
3:C:3751:LEU:O	3:C:3751:LEU:HD23	2.17	0.45
3:C:3811:THR:HB	3:C:3814:ASP:HB2	1.97	0.45
5:D:24:DA:H2	5:D:25:DT:C2	2.34	0.45
2:K:421:TYR:CD1	2:K:422:VAL:N	2.85	0.45
2:K:533:ILE:HG23	2:K:537:PHE:CE2	2.52	0.45
3:L:215:PRO:O	3:L:217:LEU:N	2.50	0.45
3:L:405:ASP:OD1	3:L:406:ARG:N	2.49	0.45
3:L:745:VAL:C	3:L:747:ALA:H	2.23	0.45
3:L:789:TYR:HD2	3:L:866:ILE:HG23	1.80	0.45
3:L:899:ARG:CZ	3:L:899:ARG:HB2	2.46	0.45
3:L:970:LEU:O	3:L:973:ALA:N	2.49	0.45
3:L:1184:ARG:HH12	3:L:1265:GLU:HB3	1.82	0.45
3:L:1305:ASP:OD1	3:L:1305:ASP:N	2.42	0.45
3:L:1565:GLU:HG2	3:L:1566:THR:N	2.32	0.45
3:L:1855:PHE:HB3	3:L:1870:LYS:NZ	2.31	0.45
3:L:1890:HIS:HA	3:L:1909:ASN:HD22	1.82	0.45
3:L:2493:ASN:OD1	3:L:2494:ASP:N	2.50	0.45
3:L:3175:PRO:O	3:L:3178:ILE:HG22	2.17	0.45
3:L:3497:SER:HA	3:L:3707:GLY:HA3	1.99	0.45
3:L:3687:MET:N	3:L:3687:MET:SD	2.90	0.45
3:L:3701:ILE:CG1	3:L:3717:VAL:HG13	2.45	0.45
3:L:3813:LYS:HD3	3:L:3926:ASN:ND2	2.32	0.45
5:M:3:DT:C2	6:N:28:DA:N1	2.85	0.45
5:M:20:DG:C5	5:M:21:DT:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:PHE:N	1:A:122:PHE:CD1	2.85	0.45
2:B:407:VAL:HG23	2:B:424:LEU:HG	1.99	0.45
2:B:441:SER:OG	2:B:444:TYR:HB2	2.16	0.45
3:C:746:ARG:O	3:C:746:ARG:HD2	2.17	0.45
3:C:961:LEU:HD12	3:C:961:LEU:HA	1.86	0.45
3:C:970:LEU:O	3:C:973:ALA:N	2.49	0.45
3:C:1744:LYS:HD2	3:C:1744:LYS:HA	1.79	0.45
3:C:2459:VAL:HA	3:C:2473:MET:HE3	1.98	0.45
3:C:3487:ILE:HA	3:C:3490:VAL:HG23	1.98	0.45
3:C:3497:SER:HA	3:C:3707:GLY:HA3	1.99	0.45
1:J:259:LEU:HB3	1:J:344:GLY:HA2	1.98	0.45
1:J:407:PRO:HG3	2:K:486:ARG:CD	2.46	0.45
3:L:144:MET:HE2	3:L:144:MET:HA	1.99	0.45
3:L:493:LYS:HZ3	3:L:495:VAL:HG22	1.80	0.45
3:L:992:ILE:HG13	3:L:1032:CYS:SG	2.57	0.45
3:L:1049:GLN:HA	3:L:1053:PRO:CG	2.47	0.45
3:L:1079:SER:O	3:L:1082:PHE:N	2.49	0.45
3:L:1265:GLU:O	3:L:1268:ASN:HB2	2.16	0.45
3:L:1786:ALA:HB2	3:L:1827:LEU:HD12	1.98	0.45
3:L:2234:ASN:O	3:L:2238:ILE:HG12	2.17	0.45
3:L:2578:GLU:HG2	3:L:2579:HIS:CG	2.52	0.45
3:L:3154:GLN:HE21	3:L:3227:ILE:CD1	2.30	0.45
3:L:3389:VAL:O	3:L:3392:ALA:N	2.49	0.45
3:L:3506:LEU:HD21	3:L:3555:VAL:HG22	1.98	0.45
3:L:3835:PRO:HG2	3:L:3838:GLU:C	2.42	0.45
1:A:38:LEU:HB3	1:A:83:LEU:HD13	1.98	0.45
2:B:553:ILE:H	3:C:254:LYS:NZ	2.15	0.45
3:C:9:ARG:NE	3:C:3069:MET:HE2	2.32	0.45
3:C:117:LYS:HD3	3:C:117:LYS:HA	1.76	0.45
3:C:352:VAL:HG13	3:C:354:SER:H	1.82	0.45
3:C:405:ASP:OD1	3:C:406:ARG:N	2.49	0.45
3:C:1128:CYS:O	3:C:1131:ILE:HB	2.17	0.45
3:C:1256:TRP:CZ2	3:C:1292:LYS:HD3	2.52	0.45
3:C:1878:ASP:HB3	3:C:1947:CYS:SG	2.57	0.45
3:C:2493:ASN:OD1	3:C:2494:ASP:N	2.50	0.45
3:C:2569:SER:OG	3:C:2570:PRO:HD2	2.15	0.45
3:C:2924:VAL:HG11	3:C:2989:ALA:HB1	1.97	0.45
3:C:3154:GLN:HE21	3:C:3227:ILE:CD1	2.30	0.45
3:C:3256:MET:SD	3:C:3287:ARG:NH1	2.89	0.45
3:C:3410:ILE:HG13	3:C:3411:ASP:N	2.32	0.45
5:D:19:DA:C2	5:D:20:DG:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:149:VAL:O	1:J:153:LEU:HD23	2.15	0.45
1:J:262:LYS:CB	1:J:268:VAL:HG12	2.47	0.45
2:K:88:PHE:O	2:K:91:LEU:N	2.50	0.45
3:L:1184:ARG:NH1	3:L:1265:GLU:HB3	2.32	0.45
3:L:1225:GLU:O	3:L:1235:ILE:N	2.39	0.45
3:L:1878:ASP:HB3	3:L:1947:CYS:SG	2.57	0.45
3:L:2506:LEU:HD22	3:L:2525:TRP:HE1	1.82	0.45
5:M:19:DA:C2	5:M:20:DG:C4	3.05	0.45
1:A:76:ILE:HG21	1:A:487:PHE:CD1	2.51	0.45
1:A:125:GLN:O	1:A:128:GLN:HG2	2.17	0.45
1:A:388:LYS:HG3	2:B:454:VAL:HB	1.99	0.45
1:A:480:ASN:CG	1:A:483:LEU:H	2.24	0.45
2:B:88:PHE:O	2:B:91:LEU:N	2.50	0.45
2:B:482:ILE:HD11	2:B:515:MET:HG2	1.99	0.45
3:C:168:ASP:HB2	6:E:11:DC:OP1	2.17	0.45
3:C:1367:HIS:HA	3:C:1370:ARG:NE	2.31	0.45
3:C:1558:TYR:O	3:C:1562:LEU:HD23	2.17	0.45
3:C:2277:LEU:HD12	3:C:2280:VAL:CG1	2.47	0.45
3:C:2357:GLU:HB3	3:C:2389:PHE:CZ	2.52	0.45
3:C:2763:MET:HE3	3:C:2763:MET:HB3	1.80	0.45
3:C:2817:LEU:O	3:C:2820:MET:HG2	2.17	0.45
3:C:3129:LEU:O	3:C:3131:SER:N	2.50	0.45
3:C:3753:LYS:NZ	10:C:4201:ADP:O1A	2.50	0.45
3:C:3837:CYS:SG	3:C:3877:LYS:HB3	2.57	0.45
5:D:26:DT:C2	5:D:27:DA:C5	3.05	0.45
8:H:298:LEU:HD11	2:K:41:PHE:CG	2.52	0.45
1:J:74:LYS:HA	1:J:77:SER:OG	2.17	0.45
1:J:122:PHE:N	1:J:122:PHE:CD1	2.85	0.45
2:K:407:VAL:HG23	2:K:424:LEU:HG	1.99	0.45
2:K:423:GLN:NE2	2:K:424:LEU:O	2.48	0.45
2:K:448:GLU:HA	2:K:451:LEU:HD12	1.99	0.45
2:K:553:ILE:H	3:L:254:LYS:NZ	2.15	0.45
3:L:711:GLY:O	3:L:714:VAL:HG12	2.17	0.45
3:L:2197:THR:HG21	3:L:2245:TRP:HB3	1.98	0.45
3:L:2247:ASP:O	3:L:2249:LEU:HG	2.17	0.45
3:L:2538:ARG:HH21	3:L:2565:MET:HE3	1.82	0.45
3:L:3133:GLN:OE1	3:L:3133:GLN:HA	2.16	0.45
3:L:3176:MET:HE1	3:L:3245:SER:HB2	1.99	0.45
9:X:674:PRO:O	9:X:678:LEU:HG	2.17	0.45
1:A:267:ILE:HD11	2:B:534:LYS:HG2	1.98	0.44
2:B:48:ALA:HB2	2:B:238:LYS:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:215:PRO:O	3:C:217:LEU:N	2.50	0.44
3:C:252:VAL:HG22	3:C:274:LEU:HD23	1.99	0.44
3:C:733:LEU:O	3:C:735:SER:N	2.49	0.44
3:C:1184:ARG:HH12	3:C:1265:GLU:HB3	1.82	0.44
3:C:1332:TYR:O	3:C:1336:THR:HG23	2.16	0.44
3:C:1370:ARG:HA	3:C:1373:VAL:HG12	1.98	0.44
3:C:1376:LEU:HD13	3:C:1399:CYS:SG	2.57	0.44
3:C:2792:THR:N	3:C:2793:PRO:HD2	2.33	0.44
3:C:3451:LEU:HD11	3:C:3468:LEU:HD22	1.99	0.44
3:C:3731:SER:O	3:C:3734:ARG:NE	2.44	0.44
1:J:125:GLN:O	1:J:128:GLN:HG2	2.17	0.44
1:J:370:PRO:HG3	1:J:382:PHE:CD1	2.52	0.44
3:L:168:ASP:HB2	6:N:11:DC:OP1	2.17	0.44
3:L:282:PHE:C	3:L:286:LEU:HD23	2.43	0.44
3:L:461:ILE:O	3:L:465:PHE:HD2	2.00	0.44
3:L:891:ARG:N	3:L:891:ARG:HD2	2.32	0.44
3:L:3008:TRP:N	3:L:3008:TRP:HD1	2.13	0.44
3:L:3076:ALA:HA	3:L:3079:GLU:HG3	2.00	0.44
3:L:3408:GLY:O	3:L:3412:ALA:N	2.35	0.44
3:L:3756:GLU:OE2	3:L:3943:GLY:HA2	2.18	0.44
5:M:24:DA:N6	6:N:6:DA:H61	2.15	0.44
9:Y:669:GLY:HA2	9:Y:703:GLY:HA3	1.98	0.44
1:A:262:LYS:CB	1:A:268:VAL:HG12	2.47	0.44
1:A:312:LEU:HD11	3:C:157:TYR:HE1	1.81	0.44
3:C:176:GLU:OE2	3:C:225:LYS:NZ	2.46	0.44
3:C:236:LYS:N	3:C:281:GLN:OE1	2.42	0.44
3:C:1135:CYS:O	3:C:1139:GLU:OE1	2.34	0.44
3:C:1171:TRP:NE1	3:C:1175:HIS:NE2	2.64	0.44
3:C:1786:ALA:HB2	3:C:1827:LEU:HD12	1.98	0.44
3:C:2976:LEU:HD12	7:F:271:LYS:HE3	2.00	0.44
3:C:2976:LEU:CD1	7:F:271:LYS:HE3	2.47	0.44
3:C:3579:SER:CA	3:C:3736:LYS:HZ1	2.23	0.44
3:C:3748:HIS:HB3	3:C:3750:PHE:CZ	2.51	0.44
3:C:3835:PRO:HG2	3:C:3838:GLU:C	2.42	0.44
8:H:140:MET:C	8:H:140:MET:SD	3.00	0.44
1:J:346:MET:O	1:J:398:CYS:HA	2.17	0.44
3:L:12:LEU:HA	3:L:12:LEU:HD23	1.62	0.44
3:L:115:TYR:HE2	3:L:159:GLU:HG3	1.82	0.44
3:L:1128:CYS:O	3:L:1131:ILE:HB	2.17	0.44
3:L:1639:LEU:HD12	3:L:1642:LYS:HD2	2.00	0.44
3:L:2521:ILE:O	3:L:2524:PHE:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2936:TYR:CD2	3:L:2961:ALA:HA	2.52	0.44
3:L:3138:ILE:HD11	3:L:3185:ASN:ND2	2.33	0.44
3:L:3145:ILE:HA	3:L:3151:LEU:HD11	1.98	0.44
3:L:3300:VAL:HG13	3:L:3301:LEU:N	2.32	0.44
3:L:3837:CYS:SG	3:L:3877:LYS:HB3	2.57	0.44
1:A:350:PHE:CE2	2:B:461:MET:HE3	2.50	0.44
1:A:353:LEU:HD23	1:A:395:ALA:HB2	2.00	0.44
1:A:386:LEU:HD12	1:A:415:PRO:HB3	1.98	0.44
1:A:479:GLU:HG2	2:B:427:MET:CG	2.48	0.44
2:B:453:ALA:O	2:B:457:LEU:HD23	2.18	0.44
3:C:677:ALA:O	3:C:680:ILE:HG22	2.17	0.44
3:C:741:ILE:HG23	3:C:748:TYR:HD2	1.82	0.44
3:C:745:VAL:HG22	3:C:746:ARG:N	2.32	0.44
3:C:1212:LEU:O	3:C:1216:GLY:N	2.50	0.44
3:C:1305:ASP:N	3:C:1305:ASP:OD1	2.41	0.44
3:C:1820:VAL:HA	3:C:1824:LEU:CB	2.40	0.44
3:C:2197:THR:HG21	3:C:2245:TRP:HB3	1.98	0.44
5:D:21:DT:C2	5:D:22:DA:N7	2.85	0.44
5:D:25:DT:C2	5:D:26:DT:C6	3.05	0.44
1:J:77:SER:OG	1:J:78:SER:N	2.48	0.44
1:J:175:PRO:HG3	1:J:216:PHE:CE2	2.52	0.44
3:L:798:GLY:HA3	3:L:920:THR:HG22	1.99	0.44
3:L:935:HIS:HB2	3:L:984:TYR:CE1	2.46	0.44
3:L:1014:LEU:HD22	3:L:1033:ILE:HD11	1.99	0.44
3:L:1082:PHE:CB	3:L:1107:TYR:HE2	2.29	0.44
3:L:1273:GLU:HB2	3:L:1275:THR:HG23	2.00	0.44
3:L:1744:LYS:HA	3:L:1744:LYS:HD2	1.80	0.44
3:L:2855:VAL:CG1	3:L:2859:GLN:HE22	2.31	0.44
5:M:8:DA:H2'	5:M:9:DC:H6	1.83	0.44
1:A:77:SER:OG	1:A:78:SER:N	2.48	0.44
1:A:206:LYS:HD2	1:A:234:GLU:O	2.18	0.44
3:C:391:ARG:HG2	3:C:1737:ASN:HD21	1.81	0.44
3:C:536:SER:O	3:C:538:ASP:N	2.49	0.44
3:C:662:LEU:O	3:C:663:ILE:HD13	2.17	0.44
3:C:1872:GLY:O	3:C:1876:ILE:HG23	2.18	0.44
3:C:2246:LYS:HG3	3:C:2246:LYS:O	2.18	0.44
3:C:2247:ASP:O	3:C:2249:LEU:HG	2.17	0.44
3:C:2374:LEU:O	3:C:2374:LEU:HD23	2.18	0.44
3:C:3537:SER:HA	3:C:3540:TYR:CE1	2.53	0.44
8:H:18:LEU:CD2	8:H:95:PHE:O	2.65	0.44
2:K:237:PHE:HB2	2:K:488:GLN:NE2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:182:GLY:HA2	3:L:189:MET:HG3	1.99	0.44
3:L:364:ARG:HG2	3:L:364:ARG:NH1	2.32	0.44
3:L:879:MET:O	3:L:882:SER:OG	2.30	0.44
3:L:1526:GLU:O	3:L:1529:VAL:HG12	2.17	0.44
3:L:2277:LEU:HD12	3:L:2280:VAL:CG1	2.47	0.44
3:L:3410:ILE:HG13	3:L:3411:ASP:N	2.32	0.44
3:L:3504:ALA:C	3:L:3506:LEU:N	2.76	0.44
3:L:3878:VAL:HG21	3:L:4127:TRP:CD1	2.53	0.44
3:L:3961:PHE:HB2	3:L:4111:ALA:HB1	2.00	0.44
9:X:663:GLU:HG2	9:X:698:TYR:CD1	2.52	0.44
9:X:679:GLU:HA	9:X:682:ILE:HB	1.99	0.44
9:Y:663:GLU:HG2	9:Y:698:TYR:CD1	2.52	0.44
1:A:49:PHE:CZ	1:A:132:GLN:HB3	2.53	0.44
1:A:317:LYS:N	2:B:279:VAL:O	2.44	0.44
2:B:358:GLY:CA	2:B:423:GLN:HB3	2.44	0.44
3:C:1639:LEU:HD12	3:C:1642:LYS:HD2	2.00	0.44
3:C:2163:HIS:O	3:C:2164:TRP:HD1	2.00	0.44
3:C:2270:ASN:O	3:C:2274:ILE:HG13	2.17	0.44
3:C:2402:LEU:HD21	3:C:2437:ASP:OD2	2.17	0.44
3:C:2406:GLU:H	3:C:2406:GLU:CD	2.25	0.44
3:C:3175:PRO:O	3:C:3178:ILE:HG22	2.17	0.44
3:C:3887:PHE:HZ	3:C:3904:PHE:CD2	2.36	0.44
3:C:3961:PHE:HB2	3:C:4111:ALA:HB1	2.00	0.44
5:D:20:DG:C5	5:D:21:DT:C4	3.05	0.44
1:J:48:MET:SD	1:J:171:ASN:ND2	2.91	0.44
1:J:71:TYR:O	1:J:75:ILE:HG12	2.17	0.44
1:J:76:ILE:HG21	1:J:487:PHE:CD1	2.52	0.44
2:K:200:GLN:O	2:K:203:GLU:HG3	2.18	0.44
3:L:1256:TRP:CZ2	3:L:1292:LYS:HD3	2.52	0.44
3:L:1376:LEU:HD13	3:L:1399:CYS:SG	2.57	0.44
3:L:1931:ASN:CG	3:L:1932:GLN:N	2.75	0.44
3:L:1933:LEU:O	3:L:1934:LEU:C	2.61	0.44
3:L:2374:LEU:O	3:L:2374:LEU:HD23	2.18	0.44
3:L:2782:ASP:OD1	3:L:2782:ASP:O	2.35	0.44
3:L:3887:PHE:HZ	3:L:3904:PHE:CD2	2.36	0.44
6:N:17:DT:C2'	6:N:18:DC:H5''	2.48	0.44
9:Y:674:PRO:O	9:Y:678:LEU:HG	2.17	0.44
1:A:346:MET:O	1:A:398:CYS:HA	2.17	0.44
1:A:493:LEU:HD12	9:X:708:ARG:HG3	1.98	0.44
2:B:533:ILE:HG23	2:B:537:PHE:CE2	2.52	0.44
3:C:108:LYS:HG3	3:C:131:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1473:THR:HB	3:C:1477:HIS:CE1	2.53	0.44
3:C:1526:GLU:O	3:C:1529:VAL:HG12	2.17	0.44
3:C:1801:VAL:HG11	3:C:1827:LEU:HD23	1.98	0.44
3:C:3504:ALA:C	3:C:3506:LEU:N	2.76	0.44
5:D:24:DA:N6	6:E:6:DA:H61	2.15	0.44
6:E:3:DG:C2	6:E:4:DT:C4	3.06	0.44
2:K:246:HIS:CD2	2:K:368:ARG:HH12	2.35	0.44
3:L:117:LYS:HD3	3:L:117:LYS:HA	1.76	0.44
3:L:741:ILE:HG23	3:L:748:TYR:HD2	1.82	0.44
3:L:746:ARG:O	3:L:746:ARG:HD2	2.17	0.44
3:L:2251:ILE:O	3:L:2253:TYR:N	2.51	0.44
3:L:2406:GLU:CD	3:L:2406:GLU:H	2.25	0.44
3:L:2567:SER:HA	3:L:2572:TYR:CE2	2.53	0.44
9:X:681:ARG:NH2	9:X:731:LYS:HE3	2.31	0.44
1:A:165:ARG:HD3	1:A:167:MET:HE2	2.00	0.44
1:A:303:PHE:HE1	2:B:292:GLU:HG2	1.81	0.44
1:A:526:LYS:O	1:A:530:TYR:HB3	2.18	0.44
2:B:448:GLU:HA	2:B:451:LEU:HD12	1.99	0.44
3:C:1184:ARG:NH1	3:C:1265:GLU:HB3	2.32	0.44
3:C:2121:ASP:HA	3:C:2124:SER:HB3	2.00	0.44
3:C:2183:HIS:O	3:C:2186:VAL:HG12	2.18	0.44
3:C:3076:ALA:HA	3:C:3079:GLU:HG3	2.00	0.44
3:C:3490:VAL:HG21	3:C:3495:PHE:CZ	2.52	0.44
3:C:3878:VAL:HG21	3:C:4127:TRP:CD1	2.53	0.44
5:D:5:DA:C6	5:D:6:DG:C6	3.06	0.44
5:D:10:DT:C2	5:D:11:DC:C6	3.05	0.44
8:H:51:THR:HG23	8:H:69:PRO:CG	2.47	0.44
1:J:49:PHE:CZ	1:J:132:GLN:HB3	2.53	0.44
1:J:470:ARG:NH1	1:J:470:ARG:HB3	2.33	0.44
3:L:252:VAL:HG22	3:L:274:LEU:HD23	1.99	0.44
3:L:762:TYR:CZ	3:L:764:PRO:HG2	2.53	0.44
3:L:1178:ARG:HD3	3:L:1183:CYS:SG	2.57	0.44
3:L:1872:GLY:O	3:L:1876:ILE:HG23	2.18	0.44
3:L:2464:HIS:CG	3:L:2465:PRO:HD2	2.53	0.44
3:L:3242:MET:O	3:L:3245:SER:OG	2.30	0.44
3:L:3969:ASN:OD1	3:L:3972:LEU:HD13	2.18	0.44
5:M:26:DT:C2	5:M:27:DA:C5	3.05	0.44
6:N:27:DT:C4	6:N:28:DA:N6	2.86	0.44
3:C:12:LEU:HD23	3:C:12:LEU:HA	1.62	0.44
3:C:341:PHE:C	3:C:343:GLU:N	2.75	0.44
3:C:1261:LEU:HD11	3:C:1340:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1370:ARG:HB3	3:C:1418:HIS:NE2	2.33	0.44
3:C:1933:LEU:O	3:C:1934:LEU:C	2.61	0.44
3:C:2234:ASN:O	3:C:2238:ILE:HG12	2.17	0.44
3:C:2538:ARG:HH21	3:C:2565:MET:HE3	1.83	0.44
3:C:2567:SER:HA	3:C:2572:TYR:CE2	2.53	0.44
3:C:2578:GLU:HG2	3:C:2579:HIS:CG	2.52	0.44
3:C:2782:ASP:OD1	3:C:2782:ASP:O	2.35	0.44
3:C:2804:ILE:HD13	3:C:2804:ILE:HA	1.85	0.44
3:C:3813:LYS:HD3	3:C:3926:ASN:ND2	2.32	0.44
5:D:22:DA:C6	6:E:8:DC:N4	2.84	0.44
1:J:172:GLU:O	1:J:174:ASN:N	2.51	0.44
1:J:349:GLY:HA3	2:K:463:LEU:HB2	2.00	0.44
1:J:526:LYS:O	1:J:530:TYR:HB3	2.18	0.44
3:L:108:LYS:HG3	3:L:131:LEU:HD21	1.98	0.44
3:L:227:LEU:HD21	3:L:248:ILE:HG23	2.00	0.44
3:L:366:TYR:HE1	3:L:384:MET:HB2	1.83	0.44
3:L:578:LYS:NZ	4:R:6006:UNK:O	2.50	0.44
3:L:703:CYS:O	3:L:706:LEU:HG	2.17	0.44
3:L:792:ILE:HG23	3:L:793:LEU:HD22	1.98	0.44
3:L:1370:ARG:HB3	3:L:1418:HIS:NE2	2.33	0.44
3:L:1798:LEU:HD21	3:L:1831:CYS:SG	2.58	0.44
3:L:1806:ARG:CZ	3:L:1806:ARG:HB3	2.47	0.44
3:L:1923:PHE:HE1	3:L:1945:TYR:CD1	2.35	0.44
3:L:2121:ASP:HA	3:L:2124:SER:HB3	2.00	0.44
3:L:2205:VAL:HB	3:L:2206:PRO:HD2	1.99	0.44
3:L:3129:LEU:O	3:L:3131:SER:N	2.50	0.44
3:L:3448:GLU:O	3:L:3452:LYS:HB2	2.17	0.44
3:L:3537:SER:HA	3:L:3540:TYR:CE1	2.53	0.44
3:L:3753:LYS:NZ	10:L:4201:ADP:O1A	2.50	0.44
5:M:5:DA:C6	5:M:6:DG:C6	3.06	0.44
1:A:35:ARG:O	1:A:162:SER:N	2.41	0.44
1:A:48:MET:SD	1:A:171:ASN:ND2	2.91	0.44
2:B:9:ALA:HB1	2:B:83:LEU:HD11	2.00	0.44
2:B:497:ARG:HH12	2:B:503:GLU:H	1.66	0.44
3:C:366:TYR:HE1	3:C:384:MET:HB2	1.83	0.44
3:C:891:ARG:N	3:C:891:ARG:HD2	2.32	0.44
3:C:1443:VAL:CG1	3:C:1447:ARG:HH22	2.29	0.44
3:C:1633:TRP:HB3	3:C:1678:LEU:HD21	1.99	0.44
3:C:1676:ILE:HG23	3:C:1713:VAL:HG11	1.99	0.44
3:C:2965:TYR:HB2	3:C:3005:LEU:HD21	2.00	0.44
3:C:3022:GLU:HG2	3:C:3024:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3651:LEU:C	3:C:3654:MET:HE3	2.43	0.44
6:E:17:DT:C2'	6:E:18:DC:H5''	2.48	0.44
7:F:107:ARG:HG2	8:H:64:ARG:HD2	1.99	0.44
8:H:298:LEU:HD12	2:K:41:PHE:CD2	2.53	0.44
1:J:105:LEU:HG	1:J:106:GLN:NE2	2.32	0.44
1:J:145:GLU:O	1:J:149:VAL:HG23	2.18	0.44
1:J:353:LEU:HD23	1:J:395:ALA:HB2	2.00	0.44
1:J:479:GLU:HG2	2:K:427:MET:CG	2.47	0.44
2:K:453:ALA:O	2:K:457:LEU:HD23	2.18	0.44
3:L:185:HIS:CD2	3:L:187:SER:HG	2.35	0.44
3:L:410:MET:O	3:L:414:LEU:HD23	2.17	0.44
3:L:443:ILE:HD12	3:L:530:LEU:HD21	1.99	0.44
3:L:741:ILE:HA	3:L:748:TYR:HE2	1.83	0.44
3:L:745:VAL:HG22	3:L:746:ARG:N	2.32	0.44
3:L:1225:GLU:O	3:L:1235:ILE:HD12	2.18	0.44
3:L:1261:LEU:HD11	3:L:1340:ARG:HG3	1.99	0.44
3:L:1488:TYR:CE2	3:L:1555:HIS:CE1	3.06	0.44
3:L:2246:LYS:HG3	3:L:2246:LYS:O	2.17	0.44
3:L:2817:LEU:O	3:L:2820:MET:HG2	2.17	0.44
3:L:3022:GLU:HG2	3:L:3024:PRO:HD2	1.99	0.44
3:L:3561:LYS:HD2	3:L:3561:LYS:O	2.18	0.44
3:L:3751:LEU:HD12	3:L:3805:TRP:CE3	2.53	0.44
3:L:3974:MET:HA	3:L:3974:MET:HE3	2.00	0.44
5:M:10:DT:C2	5:M:11:DC:C6	3.05	0.44
5:M:25:DT:C2	5:M:26:DT:C6	3.05	0.44
1:A:415:PRO:HA	1:A:432:PHE:HD1	1.82	0.43
2:B:104:GLN:NE2	2:B:139:SER:OG	2.50	0.43
2:B:200:GLN:O	2:B:203:GLU:HG3	2.18	0.43
2:B:237:PHE:HB2	2:B:488:GLN:NE2	2.33	0.43
3:C:15:LEU:O	3:C:18:THR:OG1	2.27	0.43
3:C:886:TRP:CZ3	3:C:964:ARG:HG2	2.53	0.43
3:C:1183:CYS:O	3:C:1187:SER:OG	2.30	0.43
3:C:1863:PHE:HA	3:C:1866:GLN:CD	2.44	0.43
3:C:1890:HIS:HA	3:C:1909:ASN:HD22	1.82	0.43
3:C:1914:THR:O	3:C:1918:LEU:HG	2.18	0.43
3:C:1923:PHE:HE1	3:C:1945:TYR:CD1	2.35	0.43
3:C:2257:PHE:HA	3:C:2260:PHE:CE2	2.53	0.43
3:C:2519:LEU:HD12	3:C:2519:LEU:HA	1.92	0.43
3:C:2563:LEU:O	3:C:2566:THR:HB	2.18	0.43
3:C:3071:GLY:O	3:C:3074:GLN:HB2	2.17	0.43
3:C:3127:THR:HA	3:C:3130:GLN:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3160:LEU:HD21	3:C:3164:TRP:CE2	2.53	0.43
3:C:3506:LEU:HD21	3:C:3555:VAL:HG22	1.99	0.43
3:C:3821:SER:HB3	3:C:3824:GLU:OE1	2.17	0.43
6:E:2:DT:N3	6:E:3:DG:C5	2.86	0.43
1:J:320:GLN:HA	1:J:320:GLN:OE1	2.18	0.43
3:L:9:ARG:NE	3:L:3069:MET:HE2	2.32	0.43
3:L:264:ARG:HD3	3:L:264:ARG:HA	1.68	0.43
3:L:677:ALA:O	3:L:680:ILE:HG22	2.18	0.43
3:L:1100:VAL:HA	3:L:1103:ALA:CB	2.48	0.43
3:L:1473:THR:HB	3:L:1477:HIS:CE1	2.53	0.43
3:L:1987:ARG:HA	3:L:1987:ARG:NE	2.33	0.43
3:L:2100:LEU:HG	3:L:2104:MET:CE	2.48	0.43
3:L:2371:PHE:CG	3:L:2373:PRO:HD2	2.53	0.43
3:L:3157:LEU:HD21	3:L:3231:ILE:HD11	2.00	0.43
3:L:3160:LEU:HD21	3:L:3164:TRP:CE2	2.53	0.43
3:L:3651:LEU:C	3:L:3654:MET:HE3	2.43	0.43
3:L:3789:ARG:HB3	3:L:3938:ILE:HG23	2.00	0.43
9:Y:722:LYS:HD2	9:Y:724:ALA:HB3	2.00	0.43
1:A:125:GLN:HA	1:A:128:GLN:HG2	1.99	0.43
1:A:185:ARG:O	1:A:188:THR:OG1	2.34	0.43
1:A:349:GLY:HA3	2:B:463:LEU:HB2	2.00	0.43
1:A:491:GLU:HG3	2:B:316:TYR:CE2	2.53	0.43
2:B:247:TRP:HD1	2:B:248:PRO:HD2	1.83	0.43
3:C:342:MET:HA	3:C:345:PHE:CE1	2.53	0.43
3:C:578:LYS:NZ	4:Q:6006:UNK:O	2.50	0.43
3:C:1049:GLN:HA	3:C:1053:PRO:CG	2.47	0.43
3:C:1766:LEU:HD11	3:C:1778:PHE:CG	2.53	0.43
3:C:3300:VAL:HG13	3:C:3301:LEU:N	2.32	0.43
3:C:3789:ARG:HB3	3:C:3938:ILE:HG23	2.00	0.43
3:C:3974:MET:HE3	3:C:3974:MET:HA	2.00	0.43
3:C:4127:TRP:HD1	3:C:4128:MET:OXT	2.01	0.43
1:J:439:PHE:CE2	2:K:485:PRO:HD2	2.51	0.43
1:J:491:GLU:HG3	2:K:316:TYR:CE2	2.53	0.43
2:K:247:TRP:HD1	2:K:248:PRO:HD2	1.83	0.43
2:K:466:LYS:HA	2:K:473:LEU:HA	2.00	0.43
3:L:61:ARG:HG2	3:L:61:ARG:HH21	1.83	0.43
3:L:662:LEU:O	3:L:663:ILE:HD13	2.17	0.43
3:L:1487:VAL:HG13	3:L:1488:TYR:N	2.33	0.43
3:L:1633:TRP:HB3	3:L:1678:LEU:HD21	1.99	0.43
3:L:2183:HIS:O	3:L:2186:VAL:HG12	2.18	0.43
3:L:2792:THR:N	3:L:2793:PRO:HD2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3701:ILE:HG23	3:L:3750:PHE:HE2	1.83	0.43
3:L:3791:TYR:HB3	3:L:3806:LEU:HD21	1.99	0.43
3:L:3912:CYS:C	3:L:3961:PHE:HE1	2.26	0.43
7:O:51:GLU:HA	7:O:54:GLN:HB3	2.00	0.43
1:A:38:LEU:O	1:A:83:LEU:HA	2.18	0.43
3:C:282:PHE:C	3:C:286:LEU:HD23	2.43	0.43
3:C:1256:TRP:HD1	3:C:1259:LEU:HD23	1.83	0.43
3:C:1931:ASN:CG	3:C:1932:GLN:N	2.75	0.43
3:C:2371:PHE:CG	3:C:2373:PRO:HD2	2.53	0.43
3:C:2589:TYR:HE1	3:C:2777:HIS:HB2	1.81	0.43
3:C:2936:TYR:CD2	3:C:2961:ALA:HA	2.52	0.43
3:C:3090:TYR:CE1	3:C:3098:ARG:CZ	3.01	0.43
3:C:3371:GLU:O	3:C:3374:ILE:HG12	2.18	0.43
3:C:3493:TRP:C	3:C:3495:PHE:N	2.75	0.43
3:C:3701:ILE:HG23	3:C:3750:PHE:HE2	1.83	0.43
6:E:16:DA:C5'	6:E:16:DA:C8	3.01	0.43
1:J:350:PHE:CE2	2:K:461:MET:HE3	2.50	0.43
2:K:9:ALA:HB1	2:K:83:LEU:HD11	2.00	0.43
2:K:478:PRO:C	2:K:480:THR:N	2.74	0.43
3:L:128:LEU:HD13	3:L:128:LEU:HA	1.80	0.43
3:L:651:TYR:CE2	3:L:655:LEU:HD11	2.54	0.43
3:L:1173:LEU:HD12	3:L:1191:PHE:CZ	2.53	0.43
3:L:1962:TYR:CE2	3:L:2103:HIS:HD2	2.35	0.43
3:L:2190:VAL:HG22	3:L:2194:LEU:HD23	2.00	0.43
3:L:2270:ASN:O	3:L:2274:ILE:HG13	2.17	0.43
3:L:2283:ASN:OD1	3:L:2284:ASP:N	2.50	0.43
3:L:2539:LEU:HD12	3:L:2539:LEU:HA	1.80	0.43
3:L:2551:GLU:O	3:L:2554:PHE:N	2.36	0.43
3:L:2965:TYR:HB2	3:L:3005:LEU:HD21	2.00	0.43
3:L:3180:ASP:O	3:L:3183:ILE:HG22	2.18	0.43
3:L:3371:GLU:O	3:L:3374:ILE:HG12	2.18	0.43
3:L:3498:TRP:HZ3	3:L:3501:HIS:HB3	1.80	0.43
5:M:26:DT:H2''	5:M:27:DA:H5''	2.01	0.43
6:N:19:DA:C6	6:N:20:DG:C6	3.07	0.43
9:Y:664:PHE:O	9:Y:690:VAL:HB	2.18	0.43
1:A:105:LEU:HG	1:A:106:GLN:NE2	2.32	0.43
3:C:240:GLU:O	3:C:244:THR:OG1	2.34	0.43
3:C:354:SER:OG	3:C:358:GLU:OE1	2.19	0.43
3:C:410:MET:O	3:C:414:LEU:HD23	2.17	0.43
3:C:753:GLN:NE2	3:C:791:ASP:O	2.52	0.43
3:C:762:TYR:CZ	3:C:764:PRO:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:991:LEU:HD23	3:C:991:LEU:HA	1.84	0.43
3:C:2585:GLU:OE1	3:C:2586:PHE:N	2.51	0.43
3:C:2855:VAL:CG1	3:C:2859:GLN:HE22	2.31	0.43
3:C:3561:LYS:O	3:C:3561:LYS:HD2	2.18	0.43
3:C:3761:ASP:HA	3:C:3764:VAL:HG12	2.00	0.43
6:E:13:DG:C5	6:E:14:DA:C5	3.07	0.43
1:J:38:LEU:O	1:J:83:LEU:HA	2.18	0.43
1:J:363:ARG:HB2	1:J:364:PRO:CD	2.43	0.43
1:J:388:LYS:HG3	2:K:454:VAL:HB	1.99	0.43
1:J:415:PRO:HA	1:J:432:PHE:HD1	1.82	0.43
2:K:441:SER:HG	2:K:445:ALA:H	1.57	0.43
3:L:352:VAL:HG22	3:L:353:ASP:N	2.33	0.43
3:L:615:ALA:O	3:L:617:PRO:HD3	2.19	0.43
3:L:1256:TRP:HD1	3:L:1259:LEU:HD23	1.83	0.43
3:L:1342:MET:O	3:L:1345:THR:OG1	2.33	0.43
3:L:2257:PHE:HA	3:L:2260:PHE:CE2	2.53	0.43
3:L:2402:LEU:HD21	3:L:2437:ASP:OD2	2.17	0.43
3:L:3490:VAL:HG21	3:L:3495:PHE:CZ	2.52	0.43
3:L:3680:LEU:C	3:L:3682:GLU:N	2.75	0.43
6:N:3:DG:C2	6:N:4:DT:C4	3.06	0.43
1:A:175:PRO:HG3	1:A:216:PHE:CE2	2.52	0.43
3:C:144:MET:HE2	3:C:144:MET:HA	1.99	0.43
3:C:461:ILE:O	3:C:465:PHE:HD2	2.00	0.43
3:C:615:ALA:O	3:C:617:PRO:HD3	2.19	0.43
3:C:703:CYS:HA	3:C:706:LEU:HG	2.00	0.43
3:C:736:LEU:HB3	3:C:740:ILE:HG21	2.00	0.43
3:C:1273:GLU:HB2	3:C:1275:THR:HG23	2.00	0.43
3:C:1487:VAL:HG13	3:C:1488:TYR:N	2.33	0.43
3:C:1922:ALA:O	3:C:1941:HIS:ND1	2.48	0.43
3:C:2165:LEU:HD13	3:C:2202:PRO:HG2	1.99	0.43
3:C:2251:ILE:O	3:C:2253:TYR:N	2.51	0.43
3:C:3327:ASN:O	3:C:3384:HIS:NE2	2.51	0.43
3:C:3563:ASP:CG	3:C:3568:ILE:HB	2.44	0.43
3:C:3756:GLU:OE2	3:C:3943:GLY:HA2	2.18	0.43
3:C:3912:CYS:C	3:C:3961:PHE:HE1	2.26	0.43
7:G:68:GLY:HA2	7:G:71:ARG:HG2	2.00	0.43
8:H:46:HIS:HB3	8:H:124:MET:SD	2.59	0.43
1:J:125:GLN:HA	1:J:128:GLN:HG2	1.99	0.43
1:J:206:LYS:HD2	1:J:234:GLU:O	2.18	0.43
2:K:118:ILE:HG23	2:K:122:THR:HG21	2.00	0.43
2:K:482:ILE:HD11	2:K:515:MET:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:282:PHE:O	3:L:286:LEU:HD23	2.18	0.43
3:L:477:ASN:O	3:L:481:THR:HG23	2.19	0.43
3:L:703:CYS:HA	3:L:706:LEU:HG	2.00	0.43
3:L:1558:TYR:O	3:L:1562:LEU:HD23	2.18	0.43
3:L:1766:LEU:HD11	3:L:1778:PHE:CG	2.53	0.43
3:L:3090:TYR:CE1	3:L:3098:ARG:CZ	3.01	0.43
3:L:3160:LEU:HD21	3:L:3164:TRP:CZ2	2.54	0.43
3:L:3510:GLN:O	3:L:3513:ALA:N	2.29	0.43
3:L:3686:TRP:HE3	3:L:3687:MET:SD	2.42	0.43
6:N:16:DA:C5'	6:N:16:DA:C8	3.01	0.43
9:X:700:VAL:HG21	9:X:712:ILE:HD12	2.00	0.43
1:A:470:ARG:HB3	1:A:470:ARG:NH1	2.33	0.43
2:B:526:SER:C	2:B:529:PRO:HD2	2.44	0.43
3:C:2100:LEU:HG	3:C:2104:MET:CE	2.48	0.43
3:C:2207:LYS:HG3	3:C:2211:LEU:HD13	2.01	0.43
3:C:3157:LEU:HD21	3:C:3231:ILE:HD11	2.00	0.43
3:C:3176:MET:HE1	3:C:3245:SER:HB2	1.99	0.43
3:C:3180:ASP:O	3:C:3183:ILE:HG22	2.18	0.43
3:C:3681:LYS:HD3	3:C:3726:VAL:HB	2.01	0.43
3:C:3701:ILE:CG1	3:C:3717:VAL:HG13	2.46	0.43
3:C:3751:LEU:HD12	3:C:3805:TRP:CE3	2.53	0.43
3:C:3816:LEU:HD12	3:C:3882:LEU:HD13	2.01	0.43
3:C:3862:ALA:CB	3:C:4119:ARG:HH22	2.31	0.43
6:E:10:DA:C8	6:E:11:DC:H5	2.36	0.43
6:E:27:DT:C4	6:E:28:DA:N6	2.86	0.43
8:I:1:MET:SD	8:I:4:LEU:HB2	2.59	0.43
3:L:342:MET:HA	3:L:345:PHE:CE1	2.53	0.43
3:L:497:LEU:HD23	3:L:497:LEU:HA	1.86	0.43
3:L:985:GLU:HG3	3:L:1028:PHE:CE1	2.51	0.43
3:L:2392:VAL:O	3:L:2395:THR:OG1	2.28	0.43
3:L:3805:TRP:CD2	10:L:4201:ADP:H2	2.36	0.43
1:A:171:ASN:OD1	1:A:171:ASN:N	2.48	0.43
1:A:320:GLN:OE1	1:A:320:GLN:HA	2.18	0.43
1:A:362:LEU:HD11	2:B:269:GLN:HB2	2.01	0.43
1:A:416:GLN:HG2	1:A:433:GLN:HG3	2.01	0.43
1:A:439:PHE:CE2	2:B:485:PRO:HD2	2.51	0.43
2:B:547:GLN:CG	2:B:548:VAL:H	2.27	0.43
3:C:282:PHE:O	3:C:286:LEU:HD23	2.18	0.43
3:C:352:VAL:HG22	3:C:353:ASP:N	2.33	0.43
3:C:711:GLY:O	3:C:714:VAL:HG12	2.18	0.43
3:C:798:GLY:HA3	3:C:920:THR:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1100:VAL:HA	3:C:1103:ALA:CB	2.48	0.43
3:C:1798:LEU:HD21	3:C:1831:CYS:SG	2.58	0.43
3:C:1902:GLY:HA2	3:C:1905:ILE:HG23	2.01	0.43
3:C:1987:ARG:HA	3:C:1987:ARG:NE	2.33	0.43
3:C:2190:VAL:HG22	3:C:2194:LEU:HD23	2.00	0.43
3:C:2464:HIS:CG	3:C:2465:PRO:HD2	2.53	0.43
3:C:3138:ILE:HD11	3:C:3185:ASN:ND2	2.33	0.43
3:C:3686:TRP:HE3	3:C:3687:MET:SD	2.42	0.43
3:C:3835:PRO:CB	3:C:3840:LYS:H	2.32	0.43
7:F:125:GLU:C	7:F:125:GLU:CD	2.87	0.43
1:J:303:PHE:HE1	2:K:292:GLU:HG2	1.81	0.43
2:K:148:ASP:OD1	2:K:149:ILE:N	2.51	0.43
3:L:185:HIS:CD2	3:L:188:GLU:H	2.37	0.43
3:L:352:VAL:HG13	3:L:354:SER:H	1.81	0.43
3:L:530:LEU:O	3:L:534:LEU:HD23	2.19	0.43
3:L:2184:TYR:CZ	3:L:2188:GLU:OE2	2.72	0.43
3:L:3037:GLN:NE2	3:L:3077:ILE:HG13	2.34	0.43
3:L:3806:LEU:HD13	3:L:3806:LEU:HA	1.90	0.43
3:L:3816:LEU:HD12	3:L:3882:LEU:HD13	2.01	0.43
3:L:4127:TRP:HD1	3:L:4128:MET:OXT	2.01	0.43
5:M:24:DA:H2	5:M:25:DT:C2	2.34	0.43
1:A:90:THR:HG23	1:A:92:LYS:O	2.19	0.43
1:A:172:GLU:O	1:A:174:ASN:N	2.51	0.43
2:B:35:LYS:HZ1	2:B:94:ILE:C	2.26	0.43
3:C:61:ARG:HH21	3:C:61:ARG:HG2	1.84	0.43
3:C:746:ARG:HG3	3:C:788:TYR:CZ	2.54	0.43
3:C:1348:LEU:C	3:C:1350:ASN:H	2.26	0.43
3:C:1488:TYR:CE2	3:C:1555:HIS:CE1	3.06	0.43
3:C:1759:LEU:O	3:C:1763:THR:HG23	2.19	0.43
3:C:2313:LYS:HA	3:C:2316:TYR:HE1	1.83	0.43
3:C:2415:LEU:HD12	3:C:2415:LEU:HA	1.74	0.43
3:C:2417:SER:OG	3:C:2418:LYS:N	2.46	0.43
3:C:3763:ARG:HH12	3:C:4004:VAL:HG22	1.83	0.43
3:L:627:VAL:HG21	3:L:665:GLY:HA3	2.01	0.43
3:L:643:GLU:HB2	3:L:644:PRO:HD3	2.01	0.43
3:L:1209:LYS:HA	3:L:1212:LEU:HG	2.01	0.43
3:L:1914:THR:O	3:L:1918:LEU:HG	2.18	0.43
3:L:2210:VAL:O	3:L:2214:ARG:HG2	2.19	0.43
3:L:2415:LEU:HD12	3:L:2415:LEU:HA	1.74	0.43
3:L:3327:ASN:O	3:L:3384:HIS:NE2	2.51	0.43
3:L:3493:TRP:C	3:L:3495:PHE:N	2.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3680:LEU:HB3	3:L:3682:GLU:HB2	2.01	0.43
3:L:4076:ASP:O	3:L:4080:VAL:HG23	2.19	0.43
6:N:10:DA:C8	6:N:11:DC:H5	2.36	0.43
9:X:665:CYS:SG	9:X:693:PRO:HD3	2.58	0.43
2:B:35:LYS:HZ1	2:B:95:GLU:HA	1.84	0.43
2:B:529:PRO:O	2:B:533:ILE:HG12	2.19	0.43
3:C:227:LEU:HD21	3:C:248:ILE:HG23	2.00	0.43
3:C:651:TYR:CE2	3:C:655:LEU:HD11	2.54	0.43
3:C:946:THR:C	3:C:948:MET:H	2.26	0.43
3:C:1208:LEU:HA	3:C:1211:VAL:HG22	2.01	0.43
3:C:1414:ILE:H	3:C:1414:ILE:HD12	1.84	0.43
3:C:2210:VAL:O	3:C:2214:ARG:HG2	2.19	0.43
3:C:2464:HIS:CE1	3:C:2466:SER:HB3	2.54	0.43
3:C:3037:GLN:NE2	3:C:3077:ILE:HG13	2.33	0.43
3:C:3160:LEU:HD21	3:C:3164:TRP:CZ2	2.54	0.43
3:C:3180:ASP:O	3:C:3184:THR:HG23	2.19	0.43
3:C:3408:GLY:O	3:C:3412:ALA:N	2.35	0.43
3:C:3680:LEU:C	3:C:3682:GLU:N	2.75	0.43
3:C:3805:TRP:CD2	10:C:4201:ADP:H2	2.35	0.43
3:C:3872:ARG:HH12	3:C:4114:PRO:HB3	1.83	0.43
3:C:3908:HIS:HA	3:C:3911:ILE:HG22	2.01	0.43
3:C:3969:ASN:OD1	3:C:3972:LEU:HD13	2.18	0.43
5:D:3:DT:C2	6:E:28:DA:N1	2.85	0.43
5:D:21:DT:C2	5:D:22:DA:C8	3.07	0.43
1:J:175:PRO:HB2	1:J:176:HIS:HD1	1.84	0.43
1:J:390:LEU:HD13	1:J:417:GLU:HG2	2.00	0.43
1:J:498:MET:SD	9:Y:705:GLU:OE1	2.76	0.43
2:K:497:ARG:HH12	2:K:503:GLU:H	1.66	0.43
3:L:753:GLN:NE2	3:L:791:ASP:O	2.52	0.43
3:L:769:GLY:O	3:L:770:LEU:C	2.62	0.43
3:L:975:ASP:OD1	3:L:976:VAL:N	2.44	0.43
3:L:1414:ILE:H	3:L:1414:ILE:HD12	1.84	0.43
3:L:1676:ILE:HG23	3:L:1713:VAL:HG11	1.99	0.43
3:L:2120:ARG:HB2	3:L:2160:TYR:HE1	1.83	0.43
3:L:2304:VAL:C	3:L:2306:ASN:N	2.75	0.43
3:L:2443:MET:HG3	3:L:2479:TRP:CZ3	2.54	0.43
3:L:2464:HIS:CE1	3:L:2466:SER:HB3	2.54	0.43
3:L:2585:GLU:OE1	3:L:2586:PHE:N	2.51	0.43
3:L:3129:LEU:C	3:L:3131:SER:N	2.77	0.43
3:L:3563:ASP:CG	3:L:3568:ILE:HB	2.44	0.43
3:L:3750:PHE:HB3	3:L:3802:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3763:ARG:HH12	3:L:4004:VAL:HG22	1.82	0.43
3:L:4085:LYS:HB3	3:L:4085:LYS:HE3	1.72	0.43
5:M:21:DT:C2	5:M:22:DA:C8	3.07	0.43
1:A:345:LEU:HA	1:A:399:ARG:O	2.19	0.43
1:A:346:MET:HG3	1:A:399:ARG:NH2	2.34	0.43
1:A:390:LEU:HD13	1:A:417:GLU:HG2	2.00	0.43
3:C:364:ARG:HG2	3:C:364:ARG:NH1	2.33	0.43
3:C:1018:VAL:CG2	3:C:1074:LYS:HG2	2.49	0.43
3:C:1135:CYS:SG	3:C:1194:PHE:CE1	3.12	0.43
3:C:1225:GLU:O	3:C:1235:ILE:HD12	2.18	0.43
3:C:1962:TYR:CE2	3:C:2103:HIS:HD2	2.34	0.43
3:C:2884:LEU:HD23	3:C:3128:LYS:HG2	2.01	0.43
3:C:3091:LEU:HD12	3:C:3091:LEU:HA	1.71	0.43
3:C:3386:SER:O	3:C:3389:VAL:HG12	2.19	0.43
3:C:3636:PHE:CZ	3:C:3666:LEU:HG	2.54	0.43
3:C:3750:PHE:HB3	3:C:3802:LEU:HD12	2.00	0.43
3:C:4076:ASP:O	3:C:4080:VAL:HG23	2.19	0.43
8:H:18:LEU:HD22	8:H:95:PHE:O	2.19	0.43
3:L:886:TRP:CZ3	3:L:964:ARG:HG2	2.53	0.43
3:L:1757:MET:HE3	3:L:1760:GLU:HG2	2.00	0.43
3:L:1863:PHE:HA	3:L:1866:GLN:CD	2.43	0.43
3:L:1871:MET:O	3:L:1875:LYS:HG3	2.19	0.43
3:L:1931:ASN:OD1	3:L:1933:LEU:N	2.48	0.43
3:L:2207:LYS:HG3	3:L:2211:LEU:HD13	2.01	0.43
3:L:2220:MET:HG2	3:L:2276:LEU:HD21	2.01	0.43
3:L:2313:LYS:HA	3:L:2316:TYR:HE1	1.82	0.43
3:L:3127:THR:HA	3:L:3130:GLN:OE1	2.19	0.43
3:L:3946:PHE:HE2	3:L:4043:LYS:HG3	1.83	0.43
9:Y:665:CYS:SG	9:Y:693:PRO:HD3	2.58	0.43
2:B:466:LYS:HA	2:B:473:LEU:HA	2.00	0.42
3:C:873:VAL:HB	3:C:879:MET:HE1	2.01	0.42
3:C:1173:LEU:HD12	3:C:1191:PHE:CZ	2.53	0.42
3:C:2087:GLU:HB2	3:C:2731:ARG:HH22	1.83	0.42
3:C:2304:VAL:C	3:C:2306:ASN:N	2.75	0.42
3:C:2884:LEU:HD12	3:C:2884:LEU:HA	1.70	0.42
3:C:3946:PHE:HE2	3:C:4043:LYS:HG3	1.84	0.42
1:J:90:THR:HG23	1:J:92:LYS:O	2.19	0.42
1:J:317:LYS:N	2:K:279:VAL:O	2.44	0.42
1:J:358:LYS:HA	2:K:353:ARG:HH11	1.84	0.42
1:J:404:ARG:O	1:J:406:ILE:HG12	2.19	0.42
3:L:736:LEU:HB3	3:L:740:ILE:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1018:VAL:CG2	3:L:1074:LYS:HG2	2.49	0.42
3:L:1759:LEU:O	3:L:1763:THR:HG23	2.19	0.42
3:L:1785:ILE:HG13	3:L:1786:ALA:N	2.34	0.42
3:L:1922:ALA:O	3:L:1941:HIS:ND1	2.48	0.42
3:L:2165:LEU:HD13	3:L:2202:PRO:HG2	1.99	0.42
3:L:2726:LEU:HD11	3:L:2729:ARG:NH2	2.34	0.42
6:N:2:DT:N3	6:N:3:DG:C5	2.86	0.42
9:X:664:PHE:O	9:X:690:VAL:HB	2.18	0.42
9:Y:722:LYS:HE2	9:Y:725:TRP:N	2.34	0.42
1:A:358:LYS:HA	2:B:353:ARG:NH1	2.34	0.42
3:C:185:HIS:CD2	3:C:188:GLU:H	2.37	0.42
3:C:888:ARG:NH1	3:C:3932:MET:HG2	2.34	0.42
3:C:1931:ASN:OD1	3:C:1933:LEU:N	2.48	0.42
3:C:1963:GLN:CG	3:C:2125:TRP:HZ3	2.32	0.42
3:C:1984:LEU:HD23	3:C:1985:LYS:H	1.83	0.42
3:C:2140:LEU:HD12	3:C:2141:ASN:N	2.35	0.42
3:C:2412:TYR:HB2	3:C:2442:MET:HE1	2.01	0.42
3:C:3129:LEU:C	3:C:3131:SER:H	2.27	0.42
3:C:3968:ILE:H	3:C:3968:ILE:HD12	1.85	0.42
5:D:9:DC:C2	5:D:10:DT:C6	3.08	0.42
7:G:49:GLU:CD	7:G:49:GLU:C	2.87	0.42
3:L:537:SER:HB3	3:L:540:MET:HE3	2.01	0.42
3:L:573:LEU:HD12	3:L:652:GLU:OE1	2.19	0.42
3:L:796:LEU:HD23	3:L:796:LEU:HA	1.74	0.42
3:L:873:VAL:HG12	3:L:874:THR:N	2.34	0.42
3:L:1902:GLY:HA2	3:L:1905:ILE:HG23	2.01	0.42
3:L:2311:ARG:O	3:L:2312:TYR:HD1	2.02	0.42
3:L:3180:ASP:O	3:L:3184:THR:HG23	2.19	0.42
3:L:3324:ARG:HG2	3:L:3391:ALA:HB1	2.01	0.42
3:L:3636:PHE:CZ	3:L:3666:LEU:HG	2.54	0.42
3:L:3811:THR:HA	3:L:3929:MET:SD	2.60	0.42
3:L:3862:ALA:HB1	3:L:4119:ARG:HH12	1.84	0.42
3:L:3862:ALA:CB	3:L:4119:ARG:HH22	2.31	0.42
9:Y:673:GLN:HA	9:Y:674:PRO:HD3	1.87	0.42
1:A:145:GLU:O	1:A:149:VAL:HG23	2.18	0.42
3:C:249:PHE:CZ	3:C:253:LEU:HD21	2.54	0.42
3:C:258:PRO:O	3:C:260:ILE:N	2.52	0.42
3:C:573:LEU:HD12	3:C:652:GLU:OE1	2.19	0.42
3:C:741:ILE:HA	3:C:748:TYR:HE2	1.83	0.42
3:C:796:LEU:HD23	3:C:796:LEU:HA	1.74	0.42
3:C:1134:LEU:HD13	3:C:1137:ILE:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1593:VAL:O	3:C:1597:LEU:HD23	2.18	0.42
3:C:1684:LEU:HB2	3:C:1688:LEU:HD23	2.01	0.42
3:C:2205:VAL:HB	3:C:2206:PRO:HD2	2.00	0.42
3:C:3033:GLU:HB2	3:C:3034:PRO:HD2	2.01	0.42
3:C:3487:ILE:HG23	3:C:3517:SER:HB2	2.01	0.42
3:C:3796:MET:HE3	3:C:3796:MET:HA	2.01	0.42
3:C:4085:LYS:HE3	3:C:4085:LYS:HB3	1.72	0.42
1:J:148:TRP:CZ3	1:J:189:LYS:HE3	2.54	0.42
2:K:203:GLU:O	2:K:207:ILE:HG12	2.19	0.42
3:L:240:GLU:O	3:L:244:THR:OG1	2.34	0.42
3:L:773:LEU:HD22	3:L:858:MET:SD	2.60	0.42
3:L:1168:LEU:O	3:L:1171:TRP:HB3	2.19	0.42
3:L:1208:LEU:HA	3:L:1211:VAL:HG22	2.01	0.42
3:L:1593:VAL:O	3:L:1597:LEU:HD23	2.18	0.42
3:L:1984:LEU:HD23	3:L:1985:LYS:H	1.83	0.42
3:L:2594:ASP:O	3:L:2596:ARG:HG3	2.20	0.42
3:L:2884:LEU:HD23	3:L:3128:LYS:HG2	2.01	0.42
3:L:3016:THR:O	3:L:3019:ILE:HG22	2.20	0.42
3:L:3242:MET:CE	3:L:3258:LEU:HG	2.49	0.42
3:L:3722:PHE:CB	3:L:3740:ILE:HA	2.47	0.42
6:N:13:DG:C6	6:N:14:DA:C6	3.08	0.42
1:A:68:GLN:HE22	1:A:123:LYS:HB2	1.84	0.42
1:A:263:LEU:HD21	1:A:385:LEU:HD11	2.02	0.42
1:A:396:ALA:HB3	1:A:413:LEU:HB2	2.02	0.42
2:B:14:MET:O	2:B:59:PHE:N	2.52	0.42
2:B:118:ILE:HG23	2:B:122:THR:HG21	2.00	0.42
3:C:14:ARG:O	3:C:18:THR:HG23	2.19	0.42
3:C:395:MET:HG2	3:C:413:PHE:CD1	2.54	0.42
3:C:680:ILE:O	3:C:681:LYS:HG2	2.20	0.42
3:C:879:MET:O	3:C:882:SER:OG	2.30	0.42
3:C:934:LEU:HD12	3:C:934:LEU:HA	1.84	0.42
3:C:1582:LEU:O	3:C:1586:SER:OG	2.28	0.42
3:C:1871:MET:O	3:C:1875:LYS:HG3	2.19	0.42
3:C:2404:ARG:NH1	3:C:2406:GLU:OE2	2.53	0.42
3:C:3008:TRP:CZ3	3:C:3050:LYS:HB3	2.55	0.42
3:C:3242:MET:CE	3:C:3258:LEU:HG	2.49	0.42
3:C:3771:MET:HE3	3:C:3991:PHE:CD1	2.54	0.42
3:C:3859:TYR:CG	3:C:4077:TYR:HE1	2.38	0.42
3:C:3985:VAL:HG12	3:C:3989:ARG:HH12	1.85	0.42
5:D:5:DA:N6	6:E:25:DC:N3	2.68	0.42
5:D:8:DA:N1	6:E:22:DG:N2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:6:DA:C2	6:E:7:DT:C4	3.07	0.42
1:J:165:ARG:HD3	1:J:167:MET:HE2	2.00	0.42
1:J:416:GLN:HG2	1:J:433:GLN:HG3	2.01	0.42
2:K:465:LYS:HG2	2:K:474:GLU:CB	2.49	0.42
3:L:258:PRO:O	3:L:260:ILE:N	2.52	0.42
3:L:291:VAL:HG23	3:L:292:SER:N	2.34	0.42
3:L:341:PHE:C	3:L:343:GLU:N	2.75	0.42
3:L:395:MET:HG2	3:L:413:PHE:CD1	2.54	0.42
3:L:493:LYS:HD3	3:L:495:VAL:H	1.85	0.42
3:L:571:SER:O	3:L:575:ILE:HG22	2.19	0.42
3:L:2470:ARG:NH1	3:L:2517:LEU:HD12	2.35	0.42
3:L:2501:LEU:HD12	3:L:2501:LEU:HA	1.83	0.42
3:L:2563:LEU:O	3:L:2566:THR:HB	2.18	0.42
3:L:3008:TRP:CZ3	3:L:3050:LYS:CB	3.03	0.42
3:L:3487:ILE:HG23	3:L:3517:SER:HB2	2.01	0.42
3:L:3796:MET:HA	3:L:3796:MET:HE3	2.01	0.42
3:L:3835:PRO:CB	3:L:3840:LYS:H	2.32	0.42
3:L:3985:VAL:HG12	3:L:3989:ARG:HH12	1.85	0.42
5:M:10:DT:H2"	5:M:11:DC:H6	1.85	0.42
6:N:13:DG:C5	6:N:14:DA:C5	3.07	0.42
1:A:143:LEU:HD11	1:A:216:PHE:HE2	1.85	0.42
1:A:211:PHE:CE2	1:A:232:HIS:CE1	3.08	0.42
1:A:340:PHE:HZ	2:B:489:ARG:HB2	1.85	0.42
1:A:440:ALA:O	2:B:239:LYS:HE3	2.18	0.42
3:C:906:PHE:HB3	3:C:908:ASP:OD1	2.19	0.42
3:C:1457:GLN:O	3:C:1460:ARG:HB2	2.19	0.42
3:C:1650:ALA:O	3:C:1654:GLN:HG2	2.19	0.42
3:C:2184:TYR:CZ	3:C:2188:GLU:OE2	2.72	0.42
3:C:2260:PHE:HB2	3:C:2270:ASN:OD1	2.20	0.42
3:C:2311:ARG:O	3:C:2312:TYR:HD1	2.03	0.42
3:C:3008:TRP:CZ3	3:C:3050:LYS:CB	3.03	0.42
3:C:3528:ALA:HB2	3:C:3705:TYR:CE2	2.55	0.42
3:C:3893:SER:C	3:C:3895:GLU:N	2.77	0.42
1:J:440:ALA:O	2:K:239:LYS:HE3	2.19	0.42
2:K:15:ASP:HA	2:K:59:PHE:O	2.19	0.42
2:K:167:PHE:HE1	2:K:205:LEU:HD13	1.85	0.42
2:K:526:SER:C	2:K:529:PRO:HD2	2.44	0.42
3:L:224:LEU:C	3:L:224:LEU:HD12	2.44	0.42
3:L:249:PHE:CZ	3:L:253:LEU:HD21	2.54	0.42
3:L:1605:PHE:CE1	3:L:1608:ARG:HD3	2.55	0.42
3:L:2087:GLU:HB2	3:L:2731:ARG:HH22	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2219:LEU:HB3	3:L:2238:ILE:HD12	2.02	0.42
3:L:2412:TYR:HB2	3:L:2442:MET:HE1	2.01	0.42
3:L:2995:GLU:O	3:L:2998:SER:OG	2.26	0.42
3:L:3968:ILE:H	3:L:3968:ILE:HD12	1.85	0.42
5:M:11:DC:C2	5:M:12:DT:C5	3.08	0.42
7:O:116:VAL:CG1	7:O:117:GLU:H	2.31	0.42
1:A:105:LEU:HG	1:A:106:GLN:CD	2.45	0.42
1:A:269:ILE:HB	1:A:378:SER:HB2	2.02	0.42
2:B:465:LYS:HG2	2:B:474:GLU:CB	2.49	0.42
3:C:156:PHE:HB3	3:C:178:LEU:HD21	2.01	0.42
3:C:224:LEU:C	3:C:224:LEU:HD12	2.44	0.42
3:C:386:VAL:O	3:C:387:GLU:C	2.63	0.42
3:C:571:SER:O	3:C:575:ILE:HG22	2.19	0.42
3:C:627:VAL:HG21	3:C:665:GLY:HA3	2.01	0.42
3:C:643:GLU:HB2	3:C:644:PRO:HD3	2.01	0.42
3:C:713:GLU:HG3	3:C:717:LYS:HE2	2.01	0.42
3:C:947:GLN:O	3:C:948:MET:C	2.63	0.42
3:C:1383:GLY:C	3:C:1385:ASN:H	2.28	0.42
3:C:2283:ASN:OD1	3:C:2284:ASP:N	2.50	0.42
3:C:2443:MET:HG3	3:C:2479:TRP:CZ3	2.54	0.42
3:C:2726:LEU:HD11	3:C:2729:ARG:NH2	2.34	0.42
3:C:3013:TYR:CE2	7:F:269:SER:O	2.73	0.42
3:C:3439:LEU:O	3:C:3440:GLN:C	2.61	0.42
3:C:3461:ALA:O	3:C:3464:LYS:HG2	2.20	0.42
3:C:3680:LEU:HB3	3:C:3682:GLU:HB2	2.01	0.42
3:C:3699:LEU:HD23	3:C:3699:LEU:HA	1.81	0.42
3:C:3774:ILE:O	3:C:3777:GLN:HG3	2.20	0.42
3:C:3793:VAL:HG22	3:C:3803:ILE:HD12	2.02	0.42
5:D:26:DT:H2"	5:D:27:DA:H5"	2.00	0.42
7:G:116:VAL:CG1	7:G:117:GLU:H	2.31	0.42
1:J:263:LEU:HD21	1:J:385:LEU:HD11	2.02	0.42
3:L:345:PHE:HE2	3:L:366:TYR:HA	1.84	0.42
3:L:379:LYS:HA	3:L:379:LYS:HD2	1.78	0.42
3:L:1135:CYS:SG	3:L:1194:PHE:CE1	3.12	0.42
3:L:1154:PRO:HB2	3:L:1157:PHE:CD1	2.55	0.42
3:L:1430:GLU:O	3:L:1433:ALA:N	2.53	0.42
3:L:1487:VAL:HG21	3:L:1563:PHE:CE2	2.55	0.42
3:L:1927:MET:CE	3:L:1977:ILE:HG12	2.48	0.42
3:L:3008:TRP:CZ3	3:L:3050:LYS:HB3	2.54	0.42
3:L:3582:GLU:C	3:L:3584:LEU:N	2.78	0.42
3:L:3774:ILE:O	3:L:3777:GLN:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:824:ALA:HB2	9:X:833:ASN:ND2	2.29	0.42
1:A:148:TRP:CZ3	1:A:189:LYS:HE3	2.54	0.42
2:B:15:ASP:HA	2:B:59:PHE:O	2.19	0.42
2:B:203:GLU:O	2:B:207:ILE:HG12	2.19	0.42
3:C:128:LEU:HA	3:C:128:LEU:HD13	1.80	0.42
3:C:291:VAL:HG23	3:C:292:SER:N	2.34	0.42
3:C:575:ILE:HG21	3:C:626:LEU:HD11	2.02	0.42
3:C:1649:LEU:O	3:C:1652:ILE:HG22	2.19	0.42
3:C:3041:LEU:O	3:C:3042:PRO:C	2.62	0.42
3:C:3449:LYS:HB3	3:C:3449:LYS:HE3	1.86	0.42
5:D:10:DT:H2''	5:D:11:DC:H6	1.85	0.42
6:E:13:DG:C6	6:E:14:DA:C6	3.08	0.42
7:F:267:ALA:HA	7:F:268:PRO:HD3	1.95	0.42
1:J:346:MET:HG3	1:J:399:ARG:NH2	2.34	0.42
1:J:362:LEU:HD11	2:K:269:GLN:HB2	2.01	0.42
2:K:476:LEU:HD23	2:K:476:LEU:HA	1.85	0.42
3:L:14:ARG:O	3:L:18:THR:HG23	2.19	0.42
3:L:293:LEU:O	3:L:297:LEU:HD23	2.20	0.42
3:L:946:THR:C	3:L:948:MET:H	2.26	0.42
3:L:1044:ILE:HD12	3:L:1044:ILE:HA	1.92	0.42
3:L:1331:ASN:HA	3:L:1334:LYS:NZ	2.28	0.42
3:L:2853:PRO:CG	3:L:3116:SER:HB2	2.50	0.42
3:L:3129:LEU:C	3:L:3131:SER:H	2.27	0.42
3:L:3145:ILE:HD11	3:L:3193:ILE:HG12	2.02	0.42
3:L:3761:ASP:HA	3:L:3764:VAL:HG12	2.00	0.42
3:L:3859:TYR:CG	3:L:4077:TYR:HE1	2.38	0.42
3:L:3893:SER:C	3:L:3895:GLU:N	2.77	0.42
7:O:68:GLY:HA2	7:O:71:ARG:HG2	2.01	0.42
7:P:125:GLU:CD	7:P:125:GLU:C	2.87	0.42
1:A:175:PRO:HB2	1:A:176:HIS:HD1	1.85	0.42
1:A:404:ARG:O	1:A:406:ILE:HG12	2.19	0.42
3:C:32:HIS:ND1	3:C:33:GLN:HG3	2.34	0.42
3:C:55:THR:HG22	3:C:92:PHE:CE2	2.55	0.42
3:C:493:LYS:HZ2	3:C:495:VAL:HG22	1.83	0.42
3:C:1250:LEU:O	3:C:1252:ALA:N	2.52	0.42
3:C:1384:PHE:C	3:C:1386:ILE:N	2.77	0.42
3:C:1487:VAL:HG21	3:C:1563:PHE:CE2	2.55	0.42
3:C:1718:ILE:HA	3:C:1722:PHE:CD2	2.55	0.42
3:C:2853:PRO:CG	3:C:3116:SER:HB2	2.50	0.42
3:C:3510:GLN:O	3:C:3512:VAL:N	2.53	0.42
3:C:3526:PRO:O	3:C:3529:ILE:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3528:ALA:HB2	3:C:3705:TYR:HD2	1.84	0.42
3:C:3806:LEU:HD13	3:C:3806:LEU:HA	1.91	0.42
3:C:3862:ALA:HB1	3:C:4119:ARG:HH12	1.84	0.42
3:C:4125:GLU:HG3	3:C:4127:TRP:CE2	2.54	0.42
4:Q:6005:UNK:O	4:Q:6009:UNK:N	2.53	0.42
5:D:8:DA:H2'	5:D:9:DC:H6	1.83	0.42
6:E:19:DA:C6	6:E:20:DG:C6	3.07	0.42
7:F:106:PHE:CD2	8:H:112:LEU:HD21	2.54	0.42
8:H:208:LYS:O	8:H:212:MET:SD	2.78	0.42
1:J:143:LEU:HD11	1:J:216:PHE:HE2	1.85	0.42
1:J:329:LEU:HD13	2:K:276:TRP:CH2	2.54	0.42
1:J:358:LYS:HA	2:K:353:ARG:NH1	2.34	0.42
2:K:14:MET:O	2:K:59:PHE:N	2.52	0.42
3:L:156:PHE:HB3	3:L:178:LEU:HD21	2.01	0.42
3:L:888:ARG:NH1	3:L:3932:MET:HG2	2.34	0.42
3:L:892:LEU:HD21	3:L:941:MET:HG3	2.02	0.42
3:L:906:PHE:HB3	3:L:908:ASP:OD1	2.19	0.42
3:L:1010:LEU:HD12	3:L:1010:LEU:HA	1.79	0.42
3:L:1468:LEU:HD12	3:L:1469:PRO:HD2	2.02	0.42
3:L:1586:SER:HB2	3:L:1589:ASN:HD22	1.84	0.42
3:L:1649:LEU:O	3:L:1652:ILE:HG22	2.19	0.42
3:L:1696:LEU:CB	3:L:1758:LEU:HD21	2.47	0.42
3:L:1788:ARG:O	3:L:1794:GLN:NE2	2.53	0.42
3:L:2746:LYS:O	3:L:2750:GLU:OE1	2.38	0.42
3:L:2972:TYR:CE1	3:L:2994:TRP:HA	2.53	0.42
3:L:3771:MET:HE3	3:L:3991:PHE:CD1	2.54	0.42
3:L:3908:HIS:HA	3:L:3911:ILE:HG22	2.01	0.42
3:L:3913:ILE:HD12	3:L:3913:ILE:HA	1.78	0.42
3:L:4125:GLU:HG3	3:L:4127:TRP:CE2	2.54	0.42
5:M:9:DC:N3	5:M:10:DT:C4	2.87	0.42
2:B:129:LYS:HZ2	2:B:129:LYS:HG2	1.67	0.42
2:B:365:PHE:HE1	2:B:418:CYS:HA	1.85	0.42
2:B:465:LYS:N	2:B:474:GLU:H	2.15	0.42
3:C:477:ASN:O	3:C:481:THR:HG23	2.19	0.42
3:C:530:LEU:O	3:C:534:LEU:HD23	2.19	0.42
3:C:717:LYS:HB3	3:C:721:TYR:CZ	2.55	0.42
3:C:800:LEU:HD13	3:C:3114:TYR:CE1	2.55	0.42
3:C:1695:LEU:HD22	3:C:1699:PHE:CE2	2.55	0.42
3:C:1911:LEU:HA	3:C:1914:THR:HG23	2.02	0.42
3:C:2120:ARG:HB2	3:C:2160:TYR:HE1	1.83	0.42
3:C:2594:ASP:O	3:C:2596:ARG:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2746:LYS:O	3:C:2750:GLU:OE1	2.38	0.42
7:G:51:GLU:HA	7:G:54:GLN:HB3	2.00	0.42
8:I:208:LYS:HG2	8:I:212:MET:SD	2.59	0.42
1:J:345:LEU:HA	1:J:399:ARG:O	2.19	0.42
2:K:407:VAL:O	2:K:421:TYR:HD1	2.03	0.42
3:L:32:HIS:ND1	3:L:33:GLN:HG3	2.34	0.42
3:L:568:PHE:O	3:L:571:SER:OG	2.28	0.42
3:L:793:LEU:O	3:L:796:LEU:HB2	2.20	0.42
3:L:1256:TRP:HZ2	3:L:1292:LYS:HD3	1.85	0.42
3:L:1457:GLN:O	3:L:1460:ARG:HB2	2.19	0.42
3:L:1985:LYS:CG	3:L:1987:ARG:HH12	2.28	0.42
3:L:3236:PHE:HZ	3:L:3268:THR:HG21	1.85	0.42
3:L:3526:PRO:O	3:L:3529:ILE:HG22	2.19	0.42
5:M:9:DC:C2	5:M:10:DT:C6	3.08	0.42
7:O:49:GLU:CD	7:O:49:GLU:C	2.87	0.42
9:Y:722:LYS:NZ	9:Y:742:PHE:HA	2.35	0.42
1:A:41:LEU:HD12	1:A:86:VAL:O	2.20	0.42
1:A:48:MET:HE3	1:A:171:ASN:HD21	1.85	0.42
1:A:329:LEU:HD13	2:B:276:TRP:CH2	2.55	0.42
1:A:351:LYS:HZ2	1:A:356:LEU:HD22	1.84	0.42
1:A:505:ASP:OD1	1:A:506:LEU:N	2.53	0.42
3:C:257:ARG:HB2	3:C:257:ARG:CZ	2.50	0.42
3:C:333:MET:HB3	3:C:337:LYS:NZ	2.35	0.42
3:C:453:MET:HA	3:C:456:VAL:HG12	2.02	0.42
3:C:537:SER:HB3	3:C:540:MET:HE3	2.01	0.42
3:C:573:LEU:O	3:C:576:VAL:HG12	2.20	0.42
3:C:773:LEU:HD22	3:C:858:MET:SD	2.60	0.42
3:C:1071:ASN:OD1	3:C:1072:ALA:N	2.53	0.42
3:C:1142:HIS:CD2	3:C:1197:LEU:HD12	2.55	0.42
3:C:1303:MET:C	3:C:1305:ASP:H	2.28	0.42
3:C:1430:GLU:O	3:C:1433:ALA:N	2.53	0.42
3:C:1441:ALA:C	3:C:1445:ARG:HH11	2.28	0.42
3:C:1468:LEU:HD12	3:C:1469:PRO:HD2	2.02	0.42
3:C:1757:MET:HE3	3:C:1760:GLU:HG2	2.00	0.42
3:C:1785:ILE:HG13	3:C:1786:ALA:N	2.34	0.42
3:C:3324:ARG:HG2	3:C:3391:ALA:HB1	2.01	0.42
3:C:3976:GLU:O	3:C:3977:THR:OG1	2.27	0.42
7:F:134:ILE:CA	7:G:134:ILE:HG12	2.45	0.42
1:J:68:GLN:HE22	1:J:123:LYS:HB2	1.84	0.42
1:J:261:LEU:HA	1:J:345:LEU:HB2	2.01	0.42
1:J:361:TYR:HB2	2:K:353:ARG:HH22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:334:LYS:O	2:K:335:SER:OG	2.35	0.42
2:K:365:PHE:HE1	2:K:418:CYS:HA	1.85	0.42
3:L:35:ILE:HD12	3:L:35:ILE:HA	1.96	0.42
3:L:242:PRO:HA	3:L:246:ARG:CZ	2.50	0.42
3:L:573:LEU:O	3:L:576:VAL:HG12	2.20	0.42
3:L:575:ILE:HG21	3:L:626:LEU:HD11	2.02	0.42
3:L:873:VAL:HB	3:L:879:MET:HE1	2.02	0.42
3:L:1250:LEU:O	3:L:1252:ALA:N	2.52	0.42
3:L:1650:ALA:O	3:L:1654:GLN:HG2	2.20	0.42
3:L:1684:LEU:HB2	3:L:1688:LEU:HD23	2.01	0.42
3:L:1695:LEU:HD22	3:L:1699:PHE:CE2	2.55	0.42
3:L:1794:GLN:O	3:L:1798:LEU:HG	2.20	0.42
3:L:1911:LEU:HA	3:L:1914:THR:HG23	2.02	0.42
3:L:2855:VAL:HG12	3:L:2859:GLN:HE22	1.85	0.42
3:L:3107:ILE:HD13	3:L:3135:LEU:HD13	2.02	0.42
3:L:3386:SER:O	3:L:3389:VAL:HG12	2.19	0.42
3:L:3681:LYS:HD3	3:L:3726:VAL:HB	2.01	0.42
3:L:3774:ILE:HD13	3:L:3997:LEU:HD13	2.02	0.42
3:L:3871:PHE:HA	3:L:3874:ARG:HG2	2.02	0.42
4:R:6005:UNK:O	4:R:6009:UNK:N	2.53	0.42
5:M:5:DA:N6	6:N:25:DC:N3	2.68	0.42
5:M:8:DA:N1	6:N:22:DG:N2	2.67	0.42
9:X:706:ASN:HD21	9:X:708:ARG:HB2	1.84	0.42
1:A:452:ILE:HD12	2:B:375:VAL:HB	2.02	0.41
2:B:251:LEU:HD13	2:B:340:PHE:HE2	1.85	0.41
2:B:377:LEU:O	2:B:380:LEU:HB3	2.19	0.41
3:C:722:LYS:CG	3:C:723:ASP:H	2.28	0.41
3:C:1137:ILE:O	3:C:1140:LYS:HG3	2.20	0.41
3:C:1209:LYS:HA	3:C:1212:LEU:HG	2.01	0.41
3:C:1443:VAL:HG13	3:C:1447:ARG:HH12	1.84	0.41
3:C:1844:VAL:O	3:C:1848:ILE:HG12	2.20	0.41
3:C:2451:LEU:HD21	3:C:2480:ILE:HD12	2.01	0.41
3:C:2548:PRO:O	3:C:2551:GLU:HB2	2.20	0.41
3:C:2942:ILE:H	3:C:2942:ILE:HD12	1.85	0.41
3:C:3129:LEU:C	3:C:3131:SER:N	2.77	0.41
3:C:3774:ILE:HD13	3:C:3997:LEU:HD13	2.02	0.41
5:D:9:DC:N3	5:D:10:DT:C4	2.87	0.41
5:D:11:DC:C2	5:D:12:DT:C5	3.08	0.41
5:D:24:DA:H61	6:E:6:DA:N6	2.18	0.41
7:G:73:ALA:HA	7:G:84:TYR:CD2	2.55	0.41
1:J:41:LEU:HD12	1:J:86:VAL:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:153:PHE:CE1	3:L:189:MET:HE1	2.55	0.41
3:L:327:VAL:C	3:L:329:LYS:H	2.28	0.41
3:L:746:ARG:HG3	3:L:788:TYR:CZ	2.54	0.41
3:L:864:GLY:HA2	3:L:867:ASN:ND2	2.35	0.41
3:L:1303:MET:C	3:L:1305:ASP:H	2.28	0.41
3:L:1480:GLY:O	3:L:1483:LEU:HB3	2.20	0.41
3:L:1844:VAL:O	3:L:1848:ILE:HG12	2.20	0.41
3:L:2168:LEU:HD11	3:L:2189:ILE:HD12	2.02	0.41
3:L:2404:ARG:NH1	3:L:2406:GLU:OE2	2.53	0.41
3:L:3439:LEU:O	3:L:3440:GLN:C	2.61	0.41
3:L:3815:LEU:HD12	3:L:3932:MET:HE1	2.02	0.41
1:A:491:GLU:HG3	2:B:316:TYR:HE2	1.84	0.41
2:B:148:ASP:OD1	2:B:149:ILE:N	2.51	0.41
2:B:167:PHE:CZ	2:B:205:LEU:HB2	2.55	0.41
2:B:167:PHE:HE1	2:B:205:LEU:HD13	1.85	0.41
3:C:363:ILE:HG21	3:C:413:PHE:CD2	2.56	0.41
3:C:994:TRP:HE3	3:C:2780:LEU:HD12	1.85	0.41
3:C:1194:PHE:C	3:C:1196:PRO:HD2	2.45	0.41
3:C:1427:SER:O	3:C:1431:LEU:HB2	2.20	0.41
3:C:1452:VAL:HG11	3:C:1514:LEU:HD22	2.03	0.41
3:C:1605:PHE:CE1	3:C:1608:ARG:HD3	2.55	0.41
3:C:1629:CYS:O	3:C:1632:TRP:N	2.53	0.41
3:C:1675:TYR:CD1	3:C:1695:LEU:HD21	2.55	0.41
3:C:1675:TYR:CE1	3:C:1695:LEU:HD21	2.55	0.41
3:C:1853:SER:OG	3:C:1854:ARG:N	2.52	0.41
3:C:1947:CYS:O	3:C:1950:SER:OG	2.27	0.41
3:C:2219:LEU:HB3	3:C:2238:ILE:HD12	2.02	0.41
3:C:2855:VAL:HG12	3:C:2859:GLN:HE22	1.85	0.41
3:C:2932:SER:C	3:C:2934:GLY:N	2.78	0.41
3:C:3016:THR:O	3:C:3019:ILE:HG22	2.20	0.41
3:C:3145:ILE:HD11	3:C:3193:ILE:HG12	2.02	0.41
3:C:3263:HIS:O	3:C:3265:GLU:N	2.54	0.41
3:C:3574:ALA:HB1	3:C:3687:MET:SD	2.60	0.41
3:C:3811:THR:HA	3:C:3929:MET:SD	2.60	0.41
3:C:3835:PRO:HB3	3:C:3840:LYS:HB2	2.02	0.41
3:C:3872:ARG:HD3	3:C:3872:ARG:HA	1.85	0.41
5:D:6:DG:H2''	5:D:7:DA:O4'	2.20	0.41
8:H:215:GLN:O	8:H:219:MET:SD	2.78	0.41
1:J:99:PHE:CD2	1:J:145:GLU:HG2	2.55	0.41
1:J:326:GLN:HE22	1:J:328:ILE:CD1	2.33	0.41
1:J:351:LYS:HZ2	1:J:356:LEU:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:167:PHE:CZ	2:K:205:LEU:HB2	2.55	0.41
3:L:372:PRO:O	3:L:376:ILE:HG12	2.21	0.41
3:L:925:GLN:OE1	3:L:2769:VAL:HA	2.20	0.41
3:L:1137:ILE:O	3:L:1140:LYS:HG3	2.20	0.41
3:L:1194:PHE:C	3:L:1196:PRO:HD2	2.45	0.41
3:L:1418:HIS:HA	3:L:1422:LYS:CE	2.50	0.41
3:L:1675:TYR:CD1	3:L:1695:LEU:HD21	2.55	0.41
3:L:1718:ILE:HA	3:L:1722:PHE:CD2	2.55	0.41
3:L:1884:LEU:HD23	3:L:1884:LEU:HA	1.91	0.41
3:L:3468:LEU:HD12	3:L:3468:LEU:HA	1.81	0.41
3:L:3714:GLU:HG2	3:L:3715:TYR:HD2	1.85	0.41
3:L:3956:PRO:HG3	3:L:4077:TYR:OH	2.20	0.41
6:N:6:DA:C2	6:N:7:DT:C4	3.07	0.41
9:X:673:GLN:HA	9:X:674:PRO:HD3	1.87	0.41
1:A:104:VAL:HG13	1:A:104:VAL:O	2.20	0.41
3:C:174:VAL:O	3:C:178:LEU:HD23	2.21	0.41
3:C:185:HIS:CD2	3:C:187:SER:HG	2.38	0.41
3:C:286:LEU:HD12	3:C:319:PHE:HE1	1.81	0.41
3:C:426:THR:OG1	3:C:427:VAL:N	2.53	0.41
3:C:873:VAL:HG12	3:C:874:THR:N	2.34	0.41
3:C:1467:ILE:H	3:C:1467:ILE:HD12	1.84	0.41
3:C:1480:GLY:O	3:C:1483:LEU:HB3	2.20	0.41
3:C:1506:SER:O	3:C:1509:GLN:HG3	2.20	0.41
3:C:1782:PHE:HA	3:C:1785:ILE:HG12	2.02	0.41
3:C:1806:ARG:HG3	3:C:1873:TYR:OH	2.21	0.41
3:C:2182:ILE:HD12	3:C:2182:ILE:N	2.34	0.41
3:C:3295:GLU:OE1	3:C:3295:GLU:N	2.50	0.41
3:C:3767:LEU:HD21	3:C:4002:MET:HB2	2.02	0.41
3:C:3899:ALA:O	3:C:3902:SER:OG	2.38	0.41
3:C:3964:THR:O	3:C:3968:ILE:HD12	2.20	0.41
1:J:105:LEU:HG	1:J:106:GLN:CD	2.45	0.41
1:J:452:ILE:HD12	2:K:375:VAL:HB	2.02	0.41
3:L:80:GLU:OE1	3:L:80:GLU:HA	2.21	0.41
3:L:640:GLU:OE2	3:L:680:ILE:HD11	2.21	0.41
3:L:1265:GLU:HA	3:L:1268:ASN:OD1	2.20	0.41
3:L:1443:VAL:HG13	3:L:1447:ARG:HH12	1.84	0.41
3:L:1676:ILE:HD13	3:L:1676:ILE:HA	1.92	0.41
3:L:2451:LEU:HD21	3:L:2480:ILE:HD12	2.01	0.41
3:L:2535:THR:OG1	3:L:2536:LEU:N	2.54	0.41
3:L:3169:PRO:HD2	3:L:3179:TRP:CZ2	2.55	0.41
3:L:3528:ALA:HB2	3:L:3705:TYR:HD2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3738:ILE:HG22	3:L:3739:ILE:N	2.36	0.41
3:L:3872:ARG:HH12	3:L:4114:PRO:HB3	1.83	0.41
6:N:12:DT:N3	6:N:13:DG:C6	2.89	0.41
7:P:18:HIS:HB3	7:P:36:LEU:HD11	2.02	0.41
9:X:725:TRP:CD1	9:X:742:PHE:CD2	3.09	0.41
9:Y:731:LYS:HA	9:Y:731:LYS:HE2	2.01	0.41
1:A:363:ARG:HB2	1:A:364:PRO:CD	2.43	0.41
1:A:440:ALA:C	1:A:442:ASP:H	2.28	0.41
3:C:10:CYS:SG	3:C:11:SER:N	2.93	0.41
3:C:23:ASP:O	3:C:27:ALA:N	2.42	0.41
3:C:153:PHE:CE1	3:C:189:MET:HE1	2.55	0.41
3:C:179:GLY:O	3:C:181:LEU:N	2.53	0.41
3:C:293:LEU:O	3:C:297:LEU:HD23	2.20	0.41
3:C:640:GLU:OE2	3:C:680:ILE:HD11	2.20	0.41
3:C:1348:LEU:C	3:C:1350:ASN:N	2.79	0.41
3:C:1813:SER:HA	3:C:1816:ARG:HG3	2.02	0.41
3:C:2539:LEU:HD12	3:C:2539:LEU:HA	1.80	0.41
3:C:3078:LEU:HD23	3:C:3078:LEU:HA	1.84	0.41
3:C:3300:VAL:O	3:C:3304:VAL:N	2.42	0.41
3:C:3360:LEU:O	3:C:3364:GLY:N	2.53	0.41
3:C:3815:LEU:HD12	3:C:3932:MET:HE1	2.01	0.41
3:C:3871:PHE:HA	3:C:3874:ARG:HG2	2.02	0.41
3:C:3963:LEU:O	3:C:3968:ILE:HD11	2.20	0.41
6:E:18:DC:C4	6:E:19:DA:C5	3.08	0.41
8:H:7:GLY:HA3	8:H:28:PHE:CE2	2.55	0.41
2:K:377:LEU:O	2:K:380:LEU:HB3	2.19	0.41
3:L:10:CYS:SG	3:L:11:SER:N	2.93	0.41
3:L:99:LYS:C	3:L:101:ALA:N	2.79	0.41
3:L:386:VAL:O	3:L:387:GLU:C	2.63	0.41
3:L:1071:ASN:OD1	3:L:1072:ALA:N	2.53	0.41
3:L:1134:LEU:HD13	3:L:1137:ILE:HD11	2.02	0.41
3:L:1348:LEU:C	3:L:1350:ASN:H	2.26	0.41
3:L:1467:ILE:HD12	3:L:1467:ILE:H	1.84	0.41
3:L:1697:PRO:HG3	3:L:1749:ALA:HA	2.03	0.41
3:L:1808:ASP:OD1	3:L:1808:ASP:N	2.53	0.41
3:L:1853:SER:OG	3:L:1854:ARG:N	2.52	0.41
3:L:3033:GLU:HB2	3:L:3034:PRO:HD2	2.01	0.41
3:L:3114:TYR:CD1	3:L:3114:TYR:C	2.97	0.41
3:L:3263:HIS:O	3:L:3265:GLU:N	2.54	0.41
3:L:3461:ALA:O	3:L:3464:LYS:HG2	2.19	0.41
3:L:3530:VAL:HG13	3:L:3531:TYR:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:3786:LEU:HA	3:L:3786:LEU:HD23	1.84	0.41
3:L:3999:THR:OG1	3:L:4000:ASN:N	2.53	0.41
6:N:23:DT:O2	6:N:24:DT:N3	2.53	0.41
7:O:73:ALA:HA	7:O:84:TYR:CD2	2.55	0.41
9:X:726:LEU:O	9:X:730:PHE:HD1	2.04	0.41
1:A:65:GLN:OE1	1:A:65:GLN:HA	2.21	0.41
1:A:261:LEU:HA	1:A:345:LEU:HB2	2.01	0.41
2:B:332:LYS:O	2:B:334:LYS:HD3	2.21	0.41
3:C:189:MET:HE3	3:C:189:MET:HB3	1.96	0.41
3:C:863:GLY:O	3:C:867:ASN:N	2.43	0.41
3:C:864:GLY:HA2	3:C:867:ASN:ND2	2.35	0.41
3:C:925:GLN:OE1	3:C:2769:VAL:HA	2.20	0.41
3:C:1168:LEU:O	3:C:1171:TRP:HB3	2.19	0.41
3:C:1586:SER:HB2	3:C:1589:ASN:HD22	1.84	0.41
3:C:2228:ARG:H	3:C:2228:ARG:HG2	1.55	0.41
3:C:2398:LEU:HD23	3:C:2398:LEU:HA	1.77	0.41
3:C:2579:HIS:CD2	3:L:949:PRO:CB	2.91	0.41
3:C:3114:TYR:CD1	3:C:3114:TYR:C	2.97	0.41
3:C:3602:ASN:O	3:C:3606:ILE:HG12	2.20	0.41
3:C:3714:GLU:HG2	3:C:3715:TYR:HD2	1.85	0.41
3:C:3757:ASP:HB2	3:C:3799:ARG:HH22	1.86	0.41
7:F:2:GLU:HB2	7:F:24:TRP:CZ2	2.56	0.41
1:J:46:LYS:HE2	1:J:46:LYS:HB2	1.79	0.41
1:J:320:GLN:NE2	2:K:276:TRP:CD2	2.89	0.41
2:K:529:PRO:HA	2:K:532:LYS:NZ	2.36	0.41
3:L:55:THR:HG22	3:L:92:PHE:CE2	2.55	0.41
3:L:426:THR:OG1	3:L:427:VAL:N	2.53	0.41
3:L:680:ILE:O	3:L:681:LYS:HG2	2.20	0.41
3:L:966:PHE:N	3:L:967:PRO:HD2	2.36	0.41
3:L:1142:HIS:CD2	3:L:1197:LEU:HD12	2.56	0.41
3:L:1649:LEU:HD22	3:L:1675:TYR:CZ	2.56	0.41
3:L:1820:VAL:HA	3:L:1824:LEU:CB	2.40	0.41
3:L:2290:PRO:HD2	3:L:2292:CYS:SG	2.60	0.41
3:L:2883:SER:C	3:L:2885:GLN:N	2.79	0.41
3:L:3031:TRP:CZ3	3:L:3074:GLN:HA	2.56	0.41
3:L:3448:GLU:O	3:L:3448:GLU:HG2	2.20	0.41
3:L:3602:ASN:O	3:L:3606:ILE:HG12	2.20	0.41
3:L:3793:VAL:HG22	3:L:3803:ILE:HD12	2.02	0.41
3:L:3963:LEU:O	3:L:3968:ILE:HD11	2.20	0.41
5:M:6:DG:H2'	5:M:7:DA:O4'	2.20	0.41
5:M:19:DA:H1'	5:M:20:DG:H5'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:725:TRP:CD1	9:Y:742:PHE:CD2	3.08	0.41
1:A:361:TYR:HB2	2:B:353:ARG:HH22	1.86	0.41
2:B:144:LYS:HD3	2:B:207:ILE:HD12	2.02	0.41
2:B:198:THR:OG1	2:B:201:GLN:N	2.36	0.41
2:B:457:LEU:HD22	2:B:529:PRO:HB3	2.03	0.41
2:B:523:THR:O	2:B:526:SER:OG	2.38	0.41
3:C:242:PRO:HA	3:C:246:ARG:CZ	2.50	0.41
3:C:381:VAL:O	3:C:384:MET:HG2	2.21	0.41
3:C:769:GLY:O	3:C:770:LEU:C	2.62	0.41
3:C:1913:LYS:O	3:C:1915:LEU:N	2.54	0.41
3:C:2177:ASN:O	3:C:2183:HIS:CE1	2.73	0.41
3:C:2443:MET:HA	3:C:2443:MET:HE2	2.03	0.41
3:C:2520:ILE:HD13	3:C:2520:ILE:HA	1.84	0.41
3:C:2521:ILE:HD13	3:C:2521:ILE:HA	1.94	0.41
3:C:3138:ILE:HD12	3:C:3189:PHE:HZ	1.86	0.41
3:C:3498:TRP:O	3:C:3498:TRP:CE3	2.74	0.41
3:C:3576:ASP:O	3:C:3579:SER:OG	2.29	0.41
3:C:3739:ILE:HG23	3:C:3739:ILE:O	2.21	0.41
5:D:19:DA:H1'	5:D:20:DG:H5'	2.01	0.41
5:D:22:DA:C2	5:D:23:DG:C5	3.09	0.41
5:D:22:DA:N3	5:D:23:DG:C5	2.89	0.41
6:E:23:DT:O2	6:E:24:DT:N3	2.53	0.41
1:J:129:LYS:O	1:J:132:GLN:HG3	2.21	0.41
1:J:165:ARG:HH11	1:J:165:ARG:HG3	1.86	0.41
1:J:312:LEU:HD11	3:L:157:TYR:HE1	1.82	0.41
1:J:340:PHE:HZ	2:K:489:ARG:HB2	1.85	0.41
2:K:523:THR:O	2:K:526:SER:OG	2.38	0.41
3:L:257:ARG:HB2	3:L:257:ARG:CZ	2.50	0.41
3:L:800:LEU:HD13	3:L:3114:TYR:CE1	2.55	0.41
3:L:1782:PHE:HA	3:L:1785:ILE:HG12	2.03	0.41
3:L:2140:LEU:HD12	3:L:2141:ASN:N	2.35	0.41
3:L:2240:THR:HA	3:L:2243:GLU:HG3	2.03	0.41
3:L:2548:PRO:O	3:L:2551:GLU:HB2	2.20	0.41
3:L:3141:PHE:CG	3:L:3189:PHE:HD1	2.39	0.41
3:L:3656:LEU:H	3:L:3656:LEU:HD23	1.86	0.41
1:A:245:LYS:HA	1:A:245:LYS:HD3	1.88	0.41
1:A:275:ASN:OD1	1:A:275:ASN:C	2.64	0.41
1:A:405:ASN:OD1	3:C:212:VAL:HG21	2.21	0.41
2:B:129:LYS:NZ	2:B:131:HIS:CD2	2.88	0.41
2:B:450:GLN:HG2	2:B:537:PHE:CE1	2.56	0.41
3:C:242:PRO:HA	3:C:246:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:867:ASN:C	3:C:869:ASN:N	2.78	0.41
3:C:892:LEU:HD21	3:C:941:MET:HG3	2.02	0.41
3:C:966:PHE:N	3:C:967:PRO:HD2	2.36	0.41
3:C:1082:PHE:CD1	3:C:1085:ILE:HD11	2.56	0.41
3:C:1140:LYS:NZ	3:C:1141:LYS:HE2	2.36	0.41
3:C:1265:GLU:HA	3:C:1268:ASN:OD1	2.20	0.41
3:C:1538:LEU:HD11	3:C:1555:HIS:CD2	2.43	0.41
3:C:1828:LEU:HD21	3:C:1839:PHE:CD2	2.55	0.41
3:C:2218:PHE:HE1	3:C:2222:HIS:CE1	2.38	0.41
3:C:2290:PRO:HD2	3:C:2292:CYS:SG	2.60	0.41
3:C:2392:VAL:O	3:C:2395:THR:OG1	2.28	0.41
3:C:2424:MET:HE2	3:C:2457:PRO:HB2	2.03	0.41
3:C:2594:ASP:CG	3:C:2596:ARG:HE	2.28	0.41
3:C:2811:SER:O	3:C:2814:SER:OG	2.38	0.41
3:C:3019:ILE:HD11	3:C:3030:ILE:HA	2.02	0.41
3:C:3271:ASP:OD1	3:C:3272:TRP:N	2.54	0.41
6:E:12:DT:N3	6:E:13:DG:C6	2.89	0.41
1:J:35:ARG:O	1:J:162:SER:N	2.41	0.41
1:J:211:PHE:CE2	1:J:232:HIS:CE1	3.08	0.41
1:J:466:VAL:HG23	2:K:345:PHE:CD2	2.56	0.41
2:K:138:LEU:HD22	2:K:204:GLY:HA3	2.03	0.41
2:K:251:LEU:HD13	2:K:340:PHE:HE2	1.85	0.41
2:K:457:LEU:HD22	2:K:529:PRO:HB3	2.03	0.41
3:L:363:ILE:HG21	3:L:413:PHE:CD2	2.55	0.41
3:L:713:GLU:HG3	3:L:717:LYS:HE2	2.02	0.41
3:L:717:LYS:HB3	3:L:721:TYR:CZ	2.55	0.41
3:L:801:LYS:HE3	3:L:913:ARG:NH1	2.36	0.41
3:L:1103:ALA:HA	3:L:1106:ILE:HG13	2.03	0.41
3:L:2121:ASP:O	3:L:2124:SER:HB3	2.21	0.41
3:L:2454:LEU:HD12	3:L:2454:LEU:HA	1.87	0.41
3:L:3138:ILE:HD12	3:L:3189:PHE:HZ	1.86	0.41
3:L:3793:VAL:HG13	3:L:3803:ILE:HD11	2.03	0.41
9:X:731:LYS:HE2	9:X:731:LYS:HA	2.01	0.41
9:Y:726:LEU:O	9:Y:730:PHE:HD1	2.04	0.41
1:A:38:LEU:HD12	1:A:165:ARG:O	2.21	0.41
2:B:129:LYS:HG2	2:B:130:ARG:N	2.35	0.41
2:B:407:VAL:O	2:B:421:TYR:HD1	2.03	0.41
2:B:529:PRO:HA	2:B:532:LYS:NZ	2.36	0.41
3:C:334:HIS:CD2	3:C:334:HIS:H	2.39	0.41
3:C:446:PHE:HD2	3:C:530:LEU:HD13	1.85	0.41
3:C:493:LYS:HD3	3:C:495:VAL:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:493:LYS:HZ3	3:C:495:VAL:HG22	1.85	0.41
3:C:497:LEU:HD23	3:C:497:LEU:HA	1.86	0.41
3:C:793:LEU:O	3:C:796:LEU:HB2	2.20	0.41
3:C:1154:PRO:HB2	3:C:1157:PHE:CD1	2.55	0.41
3:C:1263:ALA:O	3:C:1264:LEU:C	2.64	0.41
3:C:1808:ASP:OD1	3:C:1808:ASP:N	2.53	0.41
3:C:2168:LEU:HD11	3:C:2189:ILE:HD12	2.02	0.41
3:C:2220:MET:HG2	3:C:2276:LEU:HD21	2.01	0.41
3:C:3067:LYS:HA	3:C:3067:LYS:HD2	1.97	0.41
3:C:3169:PRO:HD2	3:C:3179:TRP:CZ2	2.56	0.41
3:C:3582:GLU:C	3:C:3584:LEU:N	2.77	0.41
3:C:3956:PRO:HG3	3:C:4077:TYR:OH	2.20	0.41
1:J:269:ILE:HB	1:J:378:SER:HB2	2.01	0.41
1:J:405:ASN:OD1	3:L:212:VAL:HG21	2.21	0.41
1:J:440:ALA:C	1:J:442:ASP:H	2.29	0.41
1:J:526:LYS:HG3	1:J:530:TYR:HD2	1.86	0.41
2:K:129:LYS:HG2	2:K:130:ARG:N	2.35	0.41
3:L:327:VAL:O	3:L:329:LYS:N	2.54	0.41
3:L:453:MET:HA	3:L:456:VAL:HG12	2.02	0.41
3:L:733:LEU:C	3:L:735:SER:N	2.78	0.41
3:L:947:GLN:O	3:L:948:MET:C	2.63	0.41
3:L:1452:VAL:HG11	3:L:1514:LEU:HD22	2.03	0.41
3:L:1958:GLU:O	3:L:1962:TYR:N	2.53	0.41
3:L:2177:ASN:O	3:L:2183:HIS:CE1	2.73	0.41
3:L:2288:TYR:O	3:L:2299:TYR:HE2	2.04	0.41
3:L:2821:ASP:C	3:L:2823:PHE:H	2.29	0.41
3:L:3019:ILE:HD11	3:L:3030:ILE:HA	2.02	0.41
3:L:3528:ALA:HB2	3:L:3705:TYR:CE2	2.55	0.41
3:L:3754:GLY:C	3:L:3756:GLU:H	2.29	0.41
3:L:3767:LEU:HD21	3:L:4002:MET:HB2	2.02	0.41
5:M:14:DA:C4	5:M:15:DT:C5	3.09	0.41
9:Y:722:LYS:HD3	9:Y:741:ARG:CZ	2.51	0.41
1:A:46:LYS:HB2	1:A:46:LYS:HE2	1.78	0.41
1:A:320:GLN:NE2	2:B:276:TRP:CD2	2.89	0.41
1:A:326:GLN:HE22	1:A:328:ILE:CD1	2.33	0.41
1:A:358:LYS:HA	2:B:353:ARG:HH11	1.84	0.41
2:B:473:LEU:O	2:B:475:ASP:N	2.52	0.41
2:B:520:ALA:O	2:B:523:THR:OG1	2.23	0.41
3:C:57:LEU:HD13	3:C:57:LEU:HA	1.92	0.41
3:C:80:GLU:OE1	3:C:80:GLU:HA	2.21	0.41
3:C:327:VAL:O	3:C:329:LYS:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:450:SER:O	3:C:454:GLN:HG3	2.21	0.41
3:C:801:LYS:HE3	3:C:913:ARG:NH1	2.36	0.41
3:C:852:ARG:CG	3:C:3111:MET:HE1	2.51	0.41
3:C:908:ASP:OD1	3:C:908:ASP:N	2.54	0.41
3:C:976:VAL:O	3:C:2598:ARG:HB3	2.21	0.41
3:C:1096:VAL:C	3:C:1098:GLN:H	2.29	0.41
3:C:1172:LEU:O	3:C:1175:HIS:N	2.54	0.41
3:C:1256:TRP:HZ2	3:C:1292:LYS:HD3	1.85	0.41
3:C:1418:HIS:HA	3:C:1422:LYS:CE	2.50	0.41
3:C:1441:ALA:O	3:C:1443:VAL:N	2.53	0.41
3:C:1510:LEU:O	3:C:1514:LEU:HD23	2.20	0.41
3:C:1649:LEU:HD22	3:C:1675:TYR:CZ	2.56	0.41
3:C:1652:ILE:HD12	3:C:1652:ILE:HA	1.92	0.41
3:C:1788:ARG:O	3:C:1794:GLN:NE2	2.53	0.41
3:C:1798:LEU:HA	3:C:1801:VAL:HG12	2.03	0.41
3:C:1882:SER:C	3:C:1884:LEU:H	2.28	0.41
3:C:1916:ILE:HD13	3:C:1951:VAL:HG11	2.03	0.41
3:C:1958:GLU:O	3:C:1962:TYR:N	2.53	0.41
3:C:2093:CYS:C	3:C:2096:PRO:HD2	2.46	0.41
3:C:2203:THR:OG1	3:C:2245:TRP:HE3	2.03	0.41
3:C:2240:THR:HA	3:C:2243:GLU:HG3	2.03	0.41
3:C:2288:TYR:O	3:C:2299:TYR:HE2	2.04	0.41
3:C:2442:MET:HE3	3:C:2442:MET:HB2	2.01	0.41
3:C:2470:ARG:NH1	3:C:2517:LEU:HD12	2.35	0.41
3:C:2951:GLN:OE1	3:C:2951:GLN:N	2.42	0.41
3:C:2981:TRP:NE1	3:C:2986:PRO:HD3	2.36	0.41
3:C:3448:GLU:O	3:C:3448:GLU:HG2	2.20	0.41
3:C:3506:LEU:O	3:C:3506:LEU:HD23	2.20	0.41
3:C:3722:PHE:CB	3:C:3740:ILE:HA	2.47	0.41
3:C:3738:ILE:HG22	3:C:3739:ILE:N	2.36	0.41
3:C:3999:THR:OG1	3:C:4000:ASN:N	2.53	0.41
3:C:4045:CYS:O	3:C:4048:LYS:HG2	2.20	0.41
5:D:14:DA:C4	5:D:15:DT:C5	3.09	0.41
6:E:19:DA:H2"	6:E:20:DG:C8	2.55	0.41
1:J:40:PHE:CD2	1:J:67:ILE:HG23	2.56	0.41
1:J:45:SER:C	1:J:47:ALA:H	2.28	0.41
1:J:104:VAL:HG13	1:J:104:VAL:O	2.20	0.41
1:J:396:ALA:HB3	1:J:413:LEU:HB2	2.02	0.41
1:J:491:GLU:HG3	2:K:316:TYR:HE2	1.84	0.41
1:J:505:ASP:OD1	1:J:506:LEU:N	2.53	0.41
2:K:529:PRO:O	2:K:533:ILE:HG12	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:13:LEU:CD2	3:L:3070:HIS:HD2	2.34	0.41
3:L:179:GLY:O	3:L:181:LEU:N	2.53	0.41
3:L:224:LEU:HD11	3:L:270:ALA:C	2.46	0.41
3:L:490:ILE:HD13	3:L:527:TYR:CG	2.56	0.41
3:L:1172:LEU:O	3:L:1175:HIS:N	2.54	0.41
3:L:1367:HIS:HA	3:L:1370:ARG:NE	2.31	0.41
3:L:1384:PHE:C	3:L:1386:ILE:N	2.77	0.41
3:L:1427:SER:O	3:L:1431:LEU:HB2	2.20	0.41
3:L:1441:ALA:O	3:L:1443:VAL:N	2.53	0.41
3:L:1506:SER:O	3:L:1509:GLN:HG3	2.20	0.41
3:L:1675:TYR:CE1	3:L:1695:LEU:HD21	2.55	0.41
3:L:1806:ARG:HG3	3:L:1873:TYR:OH	2.21	0.41
3:L:1813:SER:HA	3:L:1816:ARG:HG3	2.02	0.41
3:L:1828:LEU:HD21	3:L:1839:PHE:CD2	2.55	0.41
3:L:1913:LYS:O	3:L:1915:LEU:N	2.54	0.41
3:L:2093:CYS:C	3:L:2096:PRO:HD2	2.46	0.41
3:L:2260:PHE:HB2	3:L:2270:ASN:OD1	2.20	0.41
3:L:2443:MET:HE2	3:L:2443:MET:HA	2.03	0.41
3:L:2476:ILE:O	3:L:2480:ILE:HG12	2.21	0.41
3:L:2555:LEU:HD21	3:L:2854:PHE:HD1	1.86	0.41
3:L:2594:ASP:CG	3:L:2596:ARG:HE	2.28	0.41
3:L:2733:MET:N	5:M:31:DT:H3	2.19	0.41
3:L:2933:ILE:HG13	3:L:2933:ILE:O	2.21	0.41
3:L:2942:ILE:H	3:L:2942:ILE:HD12	1.85	0.41
3:L:2959:ALA:HA	3:L:2962:ARG:NH2	2.35	0.41
3:L:3281:CYS:SG	3:L:3329:LEU:HD13	2.61	0.41
3:L:3300:VAL:O	3:L:3304:VAL:N	2.42	0.41
3:L:3510:GLN:O	3:L:3512:VAL:N	2.53	0.41
3:L:3574:ALA:HB1	3:L:3687:MET:SD	2.60	0.41
3:L:3752:VAL:CG2	3:L:3800:LEU:HD11	2.51	0.41
5:M:14:DA:C6	5:M:15:DT:C4	3.09	0.41
6:N:18:DC:C4	6:N:19:DA:C5	3.09	0.41
9:X:662:VAL:HA	9:X:698:TYR:CE1	2.56	0.41
1:A:40:PHE:CD2	1:A:67:ILE:HG23	2.56	0.41
1:A:116:ILE:HB	1:A:495:LEU:HD11	2.03	0.41
1:A:116:ILE:HD13	1:A:116:ILE:HA	1.90	0.41
1:A:165:ARG:HH11	1:A:165:ARG:HG3	1.86	0.41
2:B:474:GLU:OE2	2:B:476:LEU:HB2	2.20	0.41
3:C:327:VAL:C	3:C:329:LYS:H	2.28	0.41
3:C:917:LEU:HD23	3:C:917:LEU:HA	1.92	0.41
3:C:1303:MET:SD	3:C:1370:ARG:NH1	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1724:MET:HE2	3:C:1724:MET:H	1.86	0.41
3:C:1767:CYS:SG	3:C:1819:PHE:HA	2.61	0.41
3:C:2121:ASP:O	3:C:2124:SER:HB3	2.21	0.41
3:C:2227:LYS:HD3	3:C:2228:ARG:H	1.86	0.41
3:C:2959:ALA:HA	3:C:2962:ARG:NH2	2.35	0.41
3:C:3107:ILE:HD13	3:C:3135:LEU:HD13	2.02	0.41
3:C:3546:SER:C	3:C:3550:LYS:HZ2	2.28	0.41
3:C:3578:LEU:HG	3:C:3684:SER:HA	2.02	0.41
3:C:3580:ASN:OD1	3:C:3580:ASN:N	2.54	0.41
3:C:3752:VAL:CG2	3:C:3800:LEU:HD11	2.51	0.41
6:E:25:DC:O2	6:E:26:DT:C2	2.74	0.41
6:E:26:DT:C4	6:E:27:DT:O4	2.74	0.41
8:I:137:ARG:HB2	8:I:138:PRO:HD3	2.03	0.41
1:J:39:ILE:HG13	1:J:84:ALA:HB3	2.03	0.41
3:L:985:GLU:N	3:L:986:PRO:HD2	2.36	0.41
3:L:991:LEU:HD23	3:L:991:LEU:HA	1.83	0.41
3:L:1348:LEU:C	3:L:1350:ASN:N	2.79	0.41
3:L:1510:LEU:O	3:L:1514:LEU:HD23	2.20	0.41
3:L:1724:MET:HE2	3:L:1724:MET:H	1.86	0.41
3:L:2218:PHE:HE1	3:L:2222:HIS:CE1	2.38	0.41
3:L:2472:GLN:O	3:L:2476:ILE:HG12	2.21	0.41
3:L:3964:THR:O	3:L:3968:ILE:HD12	2.20	0.41
3:L:4074:PHE:CE2	3:L:4075:ARG:NH2	2.89	0.41
5:M:22:DA:N3	5:M:23:DG:C5	2.89	0.41
1:A:129:LYS:O	1:A:132:GLN:HG3	2.21	0.40
2:B:212:MET:HE1	2:B:224:ILE:HA	2.03	0.40
3:C:163:LYS:HD2	3:C:163:LYS:HA	1.80	0.40
3:C:939:MET:SD	3:C:2783:ILE:HD13	2.61	0.40
3:C:1862:THR:O	3:C:1865:THR:N	2.47	0.40
3:C:1961:PHE:C	3:C:1964:GLY:H	2.29	0.40
3:C:2555:LEU:HD21	3:C:2854:PHE:HD1	1.86	0.40
3:C:2557:LEU:HD23	3:C:2557:LEU:HA	1.79	0.40
8:H:206:ASP:C	8:H:208:LYS:H	2.29	0.40
1:J:48:MET:HE3	1:J:171:ASN:HD21	1.85	0.40
1:J:289:TYR:CE1	2:K:297:LEU:HD21	2.56	0.40
1:J:405:ASN:HD21	3:L:212:VAL:HG11	1.86	0.40
1:J:487:PHE:O	1:J:491:GLU:OE1	2.39	0.40
2:K:547:GLN:CG	2:K:548:VAL:H	2.26	0.40
3:L:65:LEU:HD12	3:L:65:LEU:N	2.37	0.40
3:L:1303:MET:SD	3:L:1370:ARG:NH1	2.94	0.40
3:L:1441:ALA:C	3:L:1445:ARG:HH11	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1689:LYS:O	3:L:1693:VAL:HG13	2.21	0.40
3:L:1767:CYS:SG	3:L:1819:PHE:HA	2.61	0.40
3:L:2129:LEU:O	3:L:2133:LEU:HB2	2.21	0.40
3:L:2163:HIS:CE1	3:L:2164:TRP:NE1	2.89	0.40
3:L:2804:ILE:HD13	3:L:2804:ILE:HA	1.85	0.40
3:L:3154:GLN:HE21	3:L:3227:ILE:HD13	1.86	0.40
3:L:3347:CYS:HB3	3:L:3351:ILE:CD1	2.51	0.40
3:L:3348:LEU:HD23	3:L:3348:LEU:HA	1.80	0.40
3:L:3498:TRP:O	3:L:3498:TRP:CE3	2.74	0.40
3:L:3506:LEU:O	3:L:3506:LEU:HD23	2.20	0.40
3:L:3507:ASP:OD2	3:L:3540:TYR:HA	2.21	0.40
5:M:22:DA:C2	5:M:23:DG:C5	3.09	0.40
1:A:99:PHE:CD2	1:A:145:GLU:HG2	2.55	0.40
1:A:361:TYR:OH	1:A:364:PRO:HA	2.21	0.40
1:A:410:PHE:CZ	2:B:516:LEU:HD12	2.57	0.40
2:B:423:GLN:O	2:B:424:LEU:HD22	2.22	0.40
3:C:372:PRO:O	3:C:376:ILE:HG12	2.21	0.40
3:C:740:ILE:HG23	3:C:741:ILE:HD13	2.04	0.40
3:C:985:GLU:N	3:C:986:PRO:HD2	2.35	0.40
3:C:1794:GLN:O	3:C:1798:LEU:HG	2.21	0.40
3:C:2472:GLN:O	3:C:2476:ILE:HG12	2.21	0.40
3:C:2535:THR:OG1	3:C:2536:LEU:N	2.54	0.40
3:C:2972:TYR:CE1	3:C:2994:TRP:HA	2.53	0.40
3:C:3463:LEU:HD11	3:C:3770:VAL:HA	2.03	0.40
3:C:3498:TRP:CE3	3:C:3501:HIS:HB3	2.57	0.40
3:C:3714:GLU:H	3:C:3714:GLU:CD	2.29	0.40
3:C:3882:LEU:HD12	3:C:3966:GLN:HG3	2.03	0.40
7:G:134:ILE:HG22	7:G:138:GLN:CD	2.46	0.40
1:J:174:ASN:OD1	1:J:175:PRO:HD2	2.22	0.40
1:J:361:TYR:OH	1:J:364:PRO:HA	2.21	0.40
1:J:410:PHE:CZ	2:K:516:LEU:HD12	2.56	0.40
2:K:357:MET:SD	2:K:357:MET:O	2.79	0.40
3:L:483:VAL:HG11	3:L:567:GLU:HB3	2.04	0.40
3:L:752:LEU:HD22	3:L:792:ILE:CD1	2.49	0.40
3:L:821:ALA:O	3:L:824:LYS:HG3	2.21	0.40
3:L:1082:PHE:CD1	3:L:1085:ILE:HD11	2.56	0.40
3:L:1102:GLU:O	3:L:1106:ILE:HG13	2.22	0.40
3:L:1154:PRO:HB2	3:L:1157:PHE:HD1	1.86	0.40
3:L:1412:LYS:O	3:L:1416:GLU:N	2.30	0.40
3:L:1916:ILE:HD13	3:L:1951:VAL:HG11	2.03	0.40
3:L:2203:THR:OG1	3:L:2245:TRP:HE3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:2281:MET:HG2	3:L:2325:LEU:HB3	2.03	0.40
3:L:2422:GLN:NE2	3:L:2426:HIS:CE1	2.89	0.40
3:L:2825:THR:HG22	3:L:2826:LEU:N	2.36	0.40
3:L:3078:LEU:HD23	3:L:3078:LEU:HA	1.84	0.40
3:L:3293:CYS:SG	3:L:3294:SER:N	2.94	0.40
3:L:3739:ILE:O	3:L:3739:ILE:HG23	2.21	0.40
6:N:24:DT:C6	6:N:25:DC:H5	2.40	0.40
1:A:39:ILE:HG13	1:A:84:ALA:HB3	2.03	0.40
1:A:87:PHE:CE2	1:A:105:LEU:HD22	2.56	0.40
1:A:341:ASP:HB3	1:A:401:THR:HG21	2.03	0.40
1:A:462:MET:O	1:A:466:VAL:HG12	2.21	0.40
2:B:476:LEU:O	2:B:519:PRO:HG3	2.21	0.40
2:B:727:ASP:OD1	2:B:727:ASP:N	2.54	0.40
3:C:13:LEU:CD2	3:C:3070:HIS:HD2	2.34	0.40
3:C:224:LEU:HD11	3:C:270:ALA:C	2.46	0.40
3:C:387:GLU:OE1	3:C:391:ARG:NE	2.55	0.40
3:C:875:SER:HA	3:C:879:MET:SD	2.61	0.40
3:C:1046:PRO:CD	3:C:1047:GLN:N	2.84	0.40
3:C:1689:LYS:O	3:C:1693:VAL:HG13	2.21	0.40
3:C:2125:TRP:HD1	3:C:2128:PHE:HD2	1.68	0.40
3:C:2163:HIS:CE1	3:C:2164:TRP:NE1	2.90	0.40
3:C:2453:GLU:O	3:C:2457:PRO:HD3	2.22	0.40
3:C:3230:LEU:O	3:C:3233:SER:OG	2.22	0.40
3:C:3292:GLY:C	3:C:3296:GLN:HB3	2.47	0.40
3:C:3496:ILE:O	3:C:3497:SER:C	2.63	0.40
3:C:3793:VAL:HG13	3:C:3803:ILE:HD11	2.03	0.40
1:J:38:LEU:HD12	1:J:165:ARG:O	2.21	0.40
1:J:399:ARG:HH11	1:J:399:ARG:HD2	1.78	0.40
2:K:520:ALA:O	2:K:523:THR:N	2.54	0.40
3:L:334:HIS:CD2	3:L:334:HIS:H	2.39	0.40
3:L:562:HIS:CD2	3:L:641:PHE:HD2	2.40	0.40
3:L:743:LEU:HD13	3:L:743:LEU:HA	1.98	0.40
3:L:864:GLY:HA2	3:L:867:ASN:OD1	2.21	0.40
3:L:1477:HIS:O	3:L:1478:SER:C	2.65	0.40
3:L:1568:ASN:O	3:L:1572:LEU:HG	2.22	0.40
3:L:1882:SER:C	3:L:1884:LEU:H	2.28	0.40
3:L:1963:GLN:CG	3:L:2125:TRP:HZ3	2.32	0.40
3:L:3144:PHE:CD1	3:L:3160:LEU:HD13	2.57	0.40
3:L:3449:LYS:HB3	3:L:3449:LYS:HE3	1.86	0.40
3:L:3835:PRO:HB3	3:L:3840:LYS:HB2	2.02	0.40
6:N:26:DT:C4	6:N:27:DT:O4	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:PHE:O	1:A:491:GLU:OE1	2.39	0.40
2:B:482:ILE:HD12	2:B:482:ILE:HA	1.88	0.40
2:B:496:HIS:O	2:B:496:HIS:CD2	2.75	0.40
3:C:490:ILE:HD13	3:C:527:TYR:CG	2.56	0.40
3:C:562:HIS:CD2	3:C:641:PHE:HD2	2.39	0.40
3:C:699:GLU:OE1	3:C:1445:ARG:NH2	2.55	0.40
3:C:708:VAL:HG22	3:C:740:ILE:HG13	2.04	0.40
3:C:2476:ILE:O	3:C:2480:ILE:HG12	2.21	0.40
3:C:3103:ILE:HD12	3:C:3103:ILE:HA	1.97	0.40
3:C:3293:CYS:SG	3:C:3294:SER:N	2.94	0.40
3:C:3347:CYS:HB3	3:C:3351:ILE:CD1	2.52	0.40
3:C:3482:LEU:HD11	3:C:3487:ILE:HG13	2.04	0.40
3:C:3507:ASP:OD2	3:C:3540:TYR:HA	2.21	0.40
3:C:4074:PHE:CE2	3:C:4075:ARG:NH2	2.89	0.40
1:J:203:MET:HE3	1:J:203:MET:HB3	1.89	0.40
1:J:247:ARG:HH21	1:J:488:ARG:NH1	2.20	0.40
1:J:341:ASP:HB3	1:J:401:THR:HG21	2.03	0.40
1:J:351:LYS:NZ	1:J:356:LEU:HD22	2.36	0.40
2:K:332:LYS:O	2:K:334:LYS:HD3	2.21	0.40
2:K:353:ARG:O	2:K:356:PHE:CD1	2.73	0.40
2:K:450:GLN:HG2	2:K:537:PHE:CE1	2.56	0.40
3:L:250:ASN:OD1	3:L:251:PHE:N	2.55	0.40
3:L:1459:HIS:HB2	3:L:1464:LEU:HD22	2.04	0.40
3:L:2981:TRP:NE1	3:L:2986:PRO:HD3	2.36	0.40
3:L:3497:SER:CA	3:L:3707:GLY:HA3	2.52	0.40
3:L:3693:GLU:HB2	3:L:3696:ARG:NH2	2.36	0.40
3:L:3704:GLN:HE22	3:L:3716:HIS:HA	1.86	0.40
3:L:3729:MET:HA	3:L:3729:MET:HE3	2.04	0.40
1:A:203:MET:O	1:A:203:MET:HG2	2.22	0.40
1:A:274:TYR:CD2	2:B:435:PHE:CZ	3.10	0.40
1:A:466:VAL:HG23	2:B:345:PHE:CD2	2.56	0.40
1:A:526:LYS:HG3	1:A:530:TYR:HD2	1.86	0.40
2:B:116:ASP:C	2:B:120:HIS:HD1	2.29	0.40
2:B:477:PHE:HD1	2:B:519:PRO:CD	2.35	0.40
3:C:65:LEU:N	3:C:65:LEU:HD12	2.37	0.40
3:C:1108:MET:HA	3:C:1131:ILE:HD13	2.03	0.40
3:C:1383:GLY:C	3:C:1385:ASN:N	2.78	0.40
3:C:1927:MET:CE	3:C:1977:ILE:HG12	2.47	0.40
3:C:2422:GLN:NE2	3:C:2426:HIS:CE1	2.89	0.40
3:C:2509:GLY:C	3:C:2511:ILE:H	2.30	0.40
3:C:3006:ALA:C	3:C:3008:TRP:CD1	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3510:GLN:O	3:C:3511:ALA:C	2.64	0.40
5:D:27:DA:H2'	5:D:27:DA:H5'	1.89	0.40
6:E:25:DC:H6	6:E:25:DC:O5'	2.05	0.40
7:F:18:HIS:HB3	7:F:36:LEU:HD11	2.03	0.40
1:J:386:LEU:HA	1:J:432:PHE:HE1	1.87	0.40
1:J:462:MET:O	1:J:466:VAL:HG12	2.22	0.40
2:K:144:LYS:HD3	2:K:207:ILE:HD12	2.02	0.40
2:K:489:ARG:HH12	2:K:493:CYS:HB2	1.87	0.40
3:L:32:HIS:O	3:L:35:ILE:HG22	2.22	0.40
3:L:132:ILE:HD13	3:L:132:ILE:HA	1.96	0.40
3:L:249:PHE:CD1	3:L:282:PHE:HB3	2.57	0.40
3:L:699:GLU:OE1	3:L:1445:ARG:NH2	2.55	0.40
3:L:961:LEU:HD12	3:L:961:LEU:HA	1.86	0.40
3:L:1690:GLY:O	3:L:1693:VAL:HG22	2.22	0.40
3:L:1798:LEU:HA	3:L:1801:VAL:HG12	2.03	0.40
3:L:3145:ILE:HG22	3:L:3145:ILE:O	2.22	0.40
3:L:3463:LEU:HD11	3:L:3770:VAL:HA	2.03	0.40
3:L:3496:ILE:O	3:L:3497:SER:C	2.63	0.40
3:L:3546:SER:C	3:L:3550:LYS:HZ2	2.28	0.40
3:L:3578:LEU:HG	3:L:3684:SER:HA	2.02	0.40
3:L:3739:ILE:HG13	3:L:3747:GLU:OE1	2.22	0.40
3:L:4045:CYS:O	3:L:4048:LYS:HG2	2.21	0.40
7:P:2:GLU:HB2	7:P:24:TRP:CZ2	2.56	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	493/609 (81%)	424 (86%)	69 (14%)	0	100	100
1	J	493/609 (81%)	424 (86%)	69 (14%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	525/732 (72%)	465 (89%)	60 (11%)	0	100	100
2	K	525/732 (72%)	466 (89%)	59 (11%)	0	100	100
3	C	3686/4128 (89%)	3269 (89%)	416 (11%)	1 (0%)	100	100
3	L	3686/4128 (89%)	3269 (89%)	416 (11%)	1 (0%)	100	100
7	F	209/336 (62%)	202 (97%)	5 (2%)	2 (1%)	12	47
7	G	191/336 (57%)	176 (92%)	12 (6%)	3 (2%)	7	37
7	O	191/336 (57%)	176 (92%)	12 (6%)	3 (2%)	7	37
7	P	209/336 (62%)	203 (97%)	5 (2%)	1 (0%)	24	63
8	H	217/299 (73%)	201 (93%)	15 (7%)	1 (0%)	24	63
8	I	212/299 (71%)	200 (94%)	11 (5%)	1 (0%)	24	63
9	X	250/911 (27%)	230 (92%)	20 (8%)	0	100	100
9	Y	250/911 (27%)	231 (92%)	19 (8%)	0	100	100
All	All	11137/14702 (76%)	9936 (89%)	1188 (11%)	13 (0%)	49	83

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
7	F	26	LYS
7	P	26	LYS
7	G	26	LYS
7	G	64	GLY
8	H	208	LYS
7	O	26	LYS
7	O	64	GLY
7	F	60	ALA
7	G	60	ALA
8	I	177	ASP
7	O	60	ALA
3	C	2159	PRO
3	L	2159	PRO

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	452/548 (82%)	452 (100%)	0	100	100
1	J	452/548 (82%)	452 (100%)	0	100	100
2	B	481/649 (74%)	481 (100%)	0	100	100
2	K	481/649 (74%)	481 (100%)	0	100	100
3	C	3325/3671 (91%)	3325 (100%)	0	100	100
3	L	3325/3671 (91%)	3325 (100%)	0	100	100
7	F	191/303 (63%)	165 (86%)	26 (14%)	3	15
7	G	178/303 (59%)	155 (87%)	23 (13%)	4	17
7	O	178/303 (59%)	155 (87%)	23 (13%)	4	17
7	P	191/303 (63%)	165 (86%)	26 (14%)	3	15
8	H	198/262 (76%)	185 (93%)	13 (7%)	15	37
8	I	193/262 (74%)	178 (92%)	15 (8%)	11	32
9	X	230/808 (28%)	211 (92%)	19 (8%)	10	30
9	Y	230/808 (28%)	208 (90%)	22 (10%)	8	25
All	All	10105/13088 (77%)	9938 (98%)	167 (2%)	52	67

All (167) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
7	F	6	SER
7	F	22	VAL
7	F	23	SER
7	F	26	LYS
7	F	40	HIS
7	F	71	ARG
7	F	76	SER
7	F	85	THR
7	F	90	LYS
7	F	98	GLU
7	F	104	VAL
7	F	110	SER
7	F	112	ASN
7	F	114	GLU
7	F	116	VAL
7	F	117	GLU
7	F	122	VAL

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Mol	Chain	Res	Type
7	F	127	ILE
7	F	136	GLU
7	F	140	LYS
7	F	145	GLN
7	F	146	LYS
7	F	147	GLU
7	F	186	GLU
7	F	191	ILE
7	F	199	LEU
7	G	1	MET
7	G	16	ILE
7	G	22	VAL
7	G	28	LEU
7	G	34	ILE
7	G	47	VAL
7	G	49	GLU
7	G	51	GLU
7	G	52	ILE
7	G	65	LYS
7	G	67	VAL
7	G	70	LEU
7	G	85	THR
7	G	89	SER
7	G	91	GLU
7	G	93	CYS
7	G	125	GLU
7	G	136	GLU
7	G	150	ARG
7	G	163	GLU
7	G	165	CYS
7	G	174	THR
7	G	186	GLU
8	H	29	ILE
8	H	31	LYS
8	H	38	VAL
8	H	62	ASN
8	H	100	VAL
8	H	109	ARG
8	H	112	LEU
8	H	113	SER
8	H	124	MET
8	H	168	GLN

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Mol	Chain	Res	Type
8	H	169	GLU
8	H	196	GLU
8	H	197	LYS
8	I	17	GLN
8	I	31	LYS
8	I	41	LEU
8	I	48	GLN
8	I	49	VAL
8	I	109	ARG
8	I	118	TYR
8	I	140	MET
8	I	159	MET
8	I	169	GLU
8	I	194	MET
8	I	197	LYS
8	I	200	GLU
8	I	204	ILE
8	I	224	GLN
7	O	1	MET
7	O	16	ILE
7	O	22	VAL
7	O	28	LEU
7	O	34	ILE
7	O	47	VAL
7	O	49	GLU
7	O	51	GLU
7	O	52	ILE
7	O	65	LYS
7	O	67	VAL
7	O	70	LEU
7	O	85	THR
7	O	89	SER
7	O	91	GLU
7	O	93	CYS
7	O	125	GLU
7	O	136	GLU
7	O	150	ARG
7	O	163	GLU
7	O	165	CYS
7	O	174	THR
7	O	186	GLU
7	P	6	SER

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Mol	Chain	Res	Type
7	P	22	VAL
7	P	23	SER
7	P	26	LYS
7	P	40	HIS
7	P	71	ARG
7	P	76	SER
7	P	85	THR
7	P	90	LYS
7	P	98	GLU
7	P	104	VAL
7	P	110	SER
7	P	112	ASN
7	P	114	GLU
7	P	116	VAL
7	P	117	GLU
7	P	122	VAL
7	P	127	ILE
7	P	136	GLU
7	P	140	LYS
7	P	145	GLN
7	P	146	LYS
7	P	147	GLU
7	P	186	GLU
7	P	191	ILE
7	P	199	LEU
9	X	769	THR
9	X	774	LEU
9	X	783	ASN
9	X	788	THR
9	X	792	MET
9	X	811	SER
9	X	820	LEU
9	X	822	SER
9	X	830	SER
9	X	832	LYS
9	X	834	GLU
9	X	836	THR
9	X	837	ARG
9	X	853	VAL
9	X	856	LEU
9	X	871	ARG
9	X	872	VAL

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Mol	Chain	Res	Type
9	X	894	VAL
9	X	906	GLU
9	Y	720	VAL
9	Y	750	THR
9	Y	769	THR
9	Y	774	LEU
9	Y	783	ASN
9	Y	786	GLU
9	Y	788	THR
9	Y	792	MET
9	Y	811	SER
9	Y	820	LEU
9	Y	822	SER
9	Y	830	SER
9	Y	832	LYS
9	Y	834	GLU
9	Y	836	THR
9	Y	837	ARG
9	Y	853	VAL
9	Y	856	LEU
9	Y	871	ARG
9	Y	872	VAL
9	Y	894	VAL
9	Y	906	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (115) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	204	HIS
1	A	293	ASN
1	A	426	GLN
1	A	433	GLN
2	B	131	HIS
2	B	488	GLN
2	B	496	HIS
2	B	510	GLN
3	C	259	GLN
3	C	339	GLN
3	C	484	HIS
3	C	998	ASN
3	C	1331	ASN
3	C	1466	ASN

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Mol	Chain	Res	Type
3	C	1598	ASN
3	C	1610	ASN
3	C	1830	HIS
3	C	1890	HIS
3	C	1909	ASN
3	C	2089	ASN
3	C	2270	ASN
3	C	2295	GLN
3	C	2306	ASN
3	C	2380	ASN
3	C	2426	HIS
3	C	2432	GLN
3	C	2483	ASN
3	C	2496	GLN
3	C	2579	HIS
3	C	2751	GLN
3	C	2859	GLN
3	C	3028	ASN
3	C	3037	GLN
3	C	3074	GLN
3	C	3093	GLN
3	C	3327	ASN
3	C	3470	GLN
3	C	3515	GLN
3	C	3524	ASN
3	C	3602	ASN
3	C	3605	ASN
3	C	3743	HIS
3	C	3787	GLN
3	C	3969	ASN
3	C	4042	GLN
3	C	4088	ASN
7	F	40	HIS
7	F	137	ASN
7	F	145	GLN
7	F	159	GLN
7	G	21	GLN
7	G	138	GLN
7	G	156	ASN
7	G	159	GLN
8	H	42	GLN
8	H	149	GLN

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Mol	Chain	Res	Type
8	H	158	HIS
8	I	21	ASN
8	I	46	HIS
8	I	48	GLN
8	I	56	GLN
8	I	75	HIS
8	I	168	GLN
8	I	213	ASN
1	J	204	HIS
1	J	426	GLN
1	J	433	GLN
2	K	488	GLN
2	K	496	HIS
2	K	510	GLN
3	L	259	GLN
3	L	339	GLN
3	L	783	HIS
3	L	998	ASN
3	L	1331	ASN
3	L	1466	ASN
3	L	1598	ASN
3	L	1830	HIS
3	L	1890	HIS
3	L	1909	ASN
3	L	2089	ASN
3	L	2270	ASN
3	L	2295	GLN
3	L	2306	ASN
3	L	2380	ASN
3	L	2426	HIS
3	L	2432	GLN
3	L	2483	ASN
3	L	2579	HIS
3	L	2751	GLN
3	L	2787	HIS
3	L	2859	GLN
3	L	3028	ASN
3	L	3070	HIS
3	L	3074	GLN
3	L	3327	ASN
3	L	3470	GLN
3	L	3515	GLN

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Mol	Chain	Res	Type
3	L	3743	HIS
3	L	3787	GLN
3	L	3969	ASN
3	L	4042	GLN
3	L	4088	ASN
7	O	21	GLN
7	O	137	ASN
7	O	138	GLN
7	O	156	ASN
7	O	159	GLN
7	P	40	HIS
7	P	145	GLN
7	P	159	GLN
9	X	833	ASN
9	X	848	HIS
9	Y	833	ASN
9	Y	848	HIS

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](#)

2 ligands are modelled in this entry.

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
10	ADP	L	4201	-	28,29,29	1.55	5 (17%)	43,45,45	1.96	8 (18%)
10	ADP	C	4201	-	28,29,29	1.54	5 (17%)	43,45,45	1.94	8 (18%)

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
10	ADP	L	4201	-	-	2/16/32/32	0/3/3/3
10	ADP	C	4201	-	-	2/16/32/32	0/3/3/3

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	C	4201	ADP	C5-N7	-3.68	1.32	1.39
10	L	4201	ADP	C5-N7	-3.66	1.32	1.39
10	L	4201	ADP	C5-C4	3.38	1.45	1.39
10	C	4201	ADP	C5-C4	3.33	1.45	1.39
10	L	4201	ADP	C8-N9	-3.25	1.32	1.37
10	C	4201	ADP	C8-N9	-3.23	1.32	1.37
10	L	4201	ADP	C4-N9	-3.05	1.31	1.37
10	C	4201	ADP	C4-N9	-2.99	1.31	1.37
10	C	4201	ADP	O4'-C4'	-2.14	1.40	1.45
10	L	4201	ADP	O4'-C4'	-2.12	1.40	1.45

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	L	4201	ADP	C5-C4-N3	-6.13	118.27	126.72
10	C	4201	ADP	C5-C4-N3	-6.06	118.38	126.72
10	C	4201	ADP	N3-C4-N9	5.30	136.17	127.17
10	L	4201	ADP	N3-C4-N9	5.30	136.17	127.17
10	L	4201	ADP	C1'-N9-C8	-3.36	119.64	127.09
10	C	4201	ADP	C1'-N9-C8	-3.31	119.74	127.09
10	L	4201	ADP	C4-N9-C8	3.18	109.07	105.74
10	C	4201	ADP	C4-N9-C8	3.17	109.06	105.74
10	C	4201	ADP	O4'-C1'-N9	-3.05	102.24	108.09
10	L	4201	ADP	O4'-C1'-N9	-3.04	102.26	108.09
10	L	4201	ADP	C2-N3-C4	2.92	118.97	111.83
10	C	4201	ADP	C2-N3-C4	2.89	118.88	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	L	4201	ADP	C4-C5-N7	-2.81	107.37	110.58
10	C	4201	ADP	C4-C5-N7	-2.71	107.48	110.58
10	L	4201	ADP	C5-N7-C8	2.05	106.67	103.45
10	C	4201	ADP	C5-N7-C8	2.04	106.66	103.45

There are no chirality outliers.

All (4) torsion outliers are listed below:

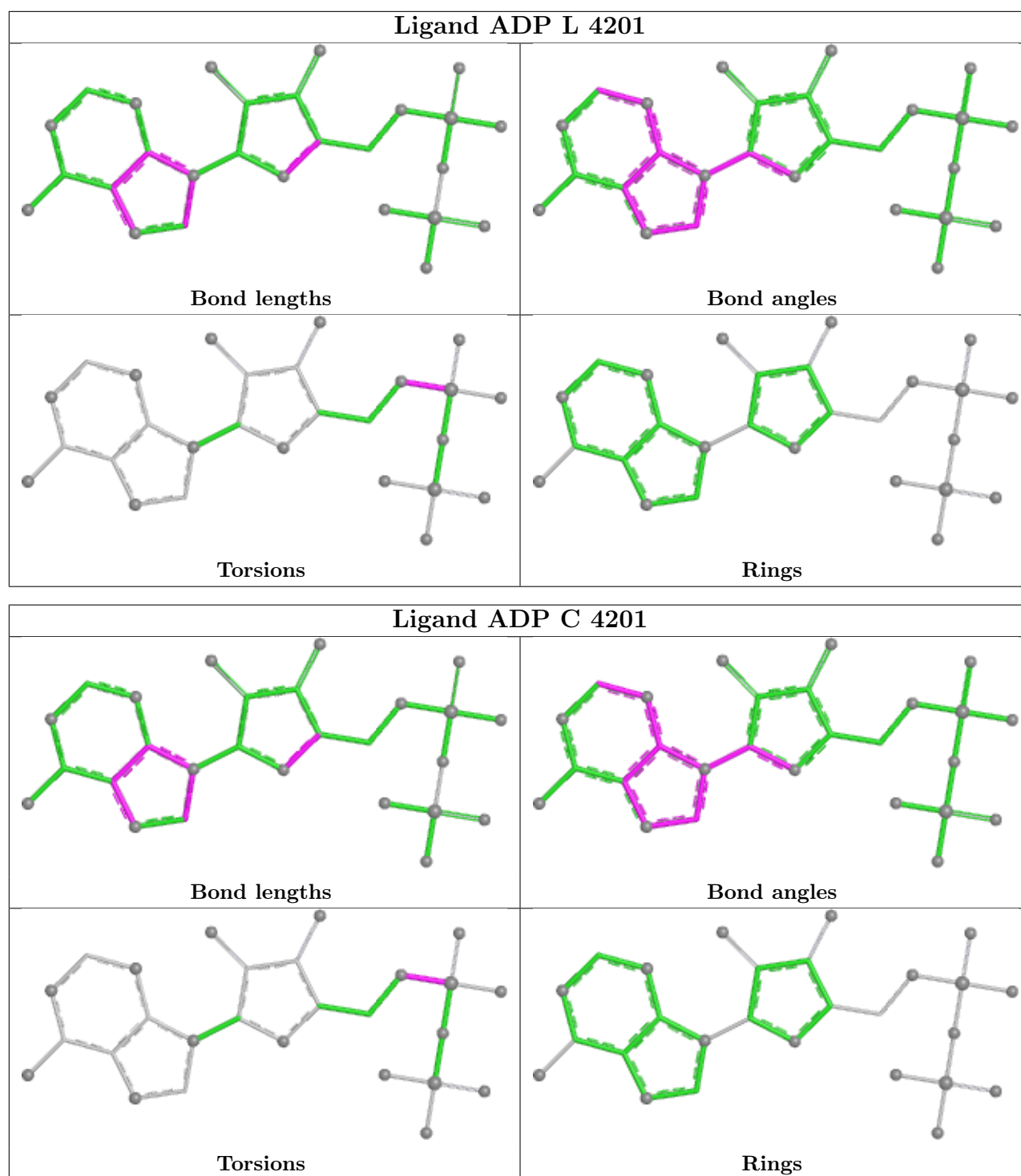
Mol	Chain	Res	Type	Atoms
10	C	4201	ADP	C5'-O5'-PA-O3A
10	L	4201	ADP	C5'-O5'-PA-O3A
10	C	4201	ADP	C5'-O5'-PA-O1A
10	L	4201	ADP	C5'-O5'-PA-O1A

There are no ring outliers.

2 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
10	L	4201	ADP	5	0
10	C	4201	ADP	5	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.



5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

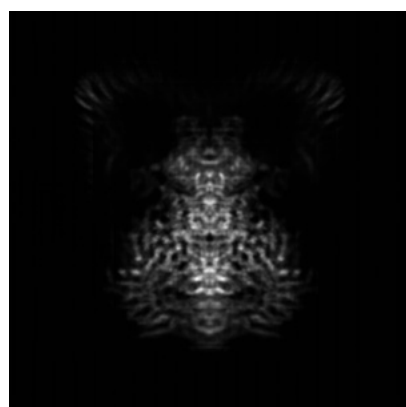
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23510. These allow visual inspection of the internal detail of the map and identification of artifacts.

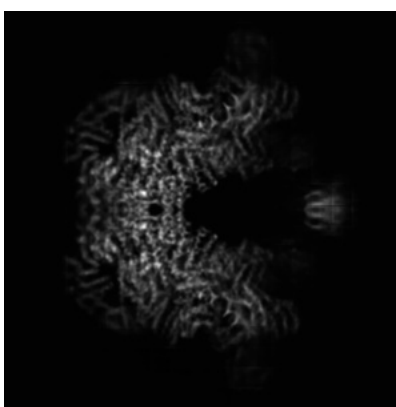
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

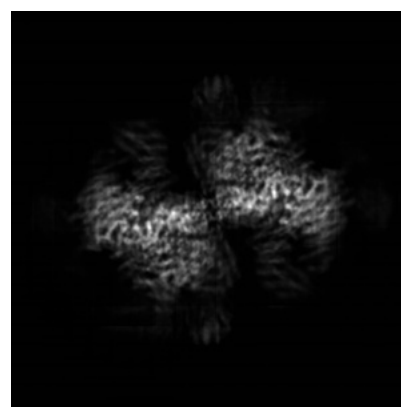
6.1.1 Primary map



X



Y

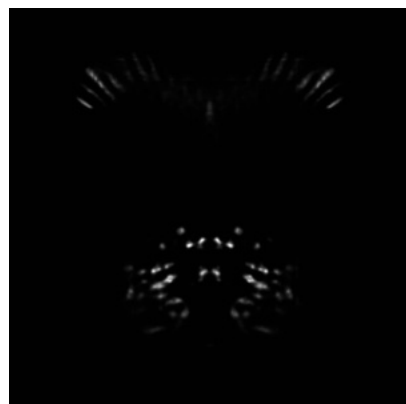


Z

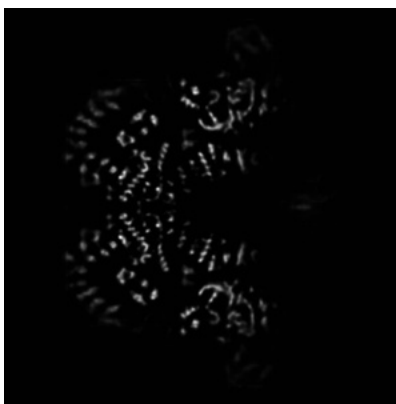
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

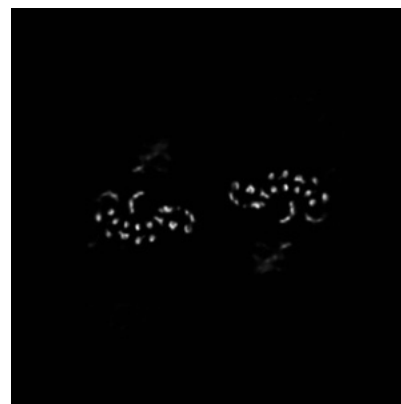
6.2.1 Primary map



X Index: 145



Y Index: 145



Z Index: 145

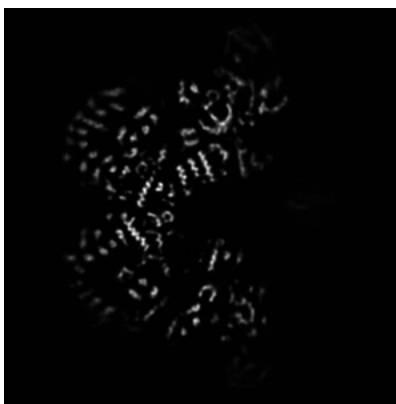
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

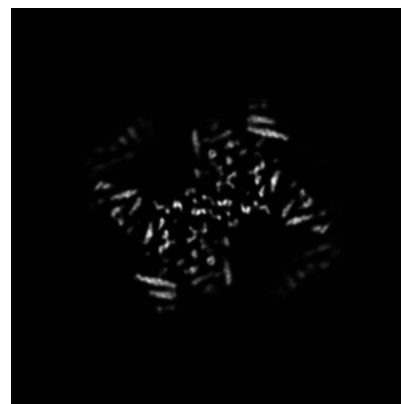
6.3.1 Primary map



X Index: 185



Y Index: 147

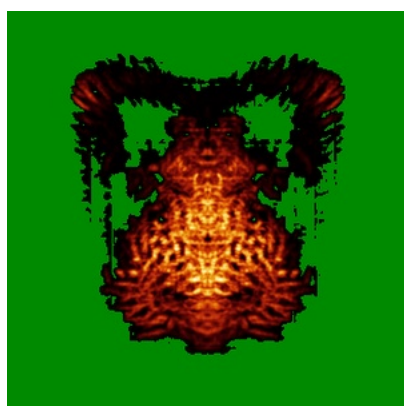


Z Index: 100

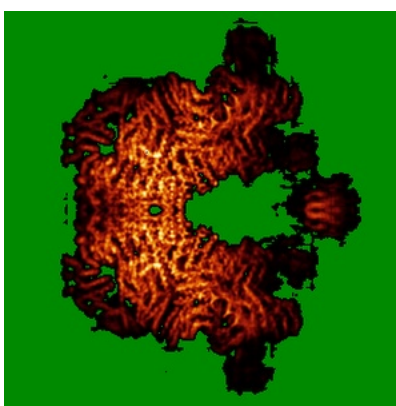
The images above show the largest variance slices of the map in three orthogonal directions.

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

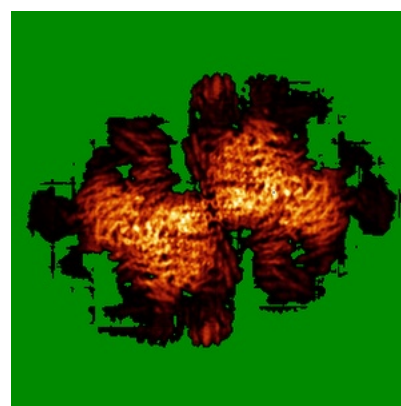
6.4.1 Primary map



X



Y

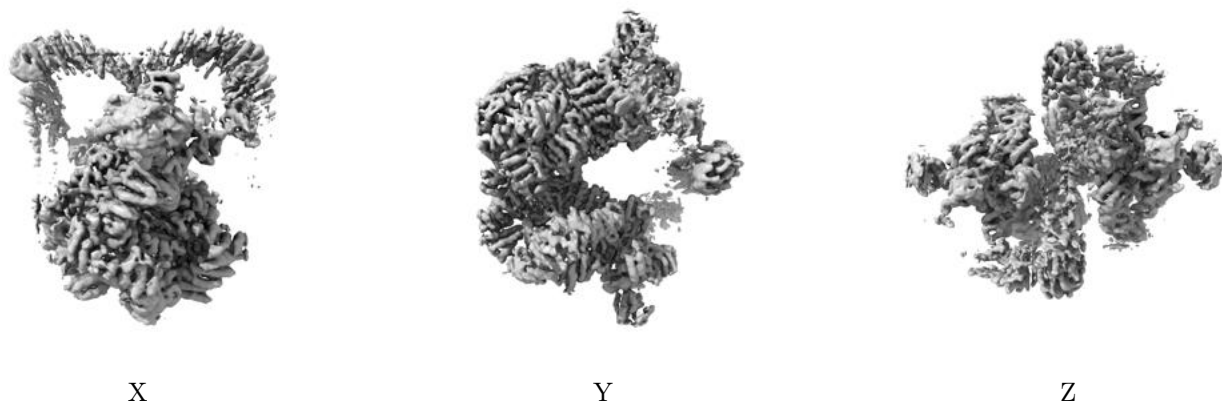


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

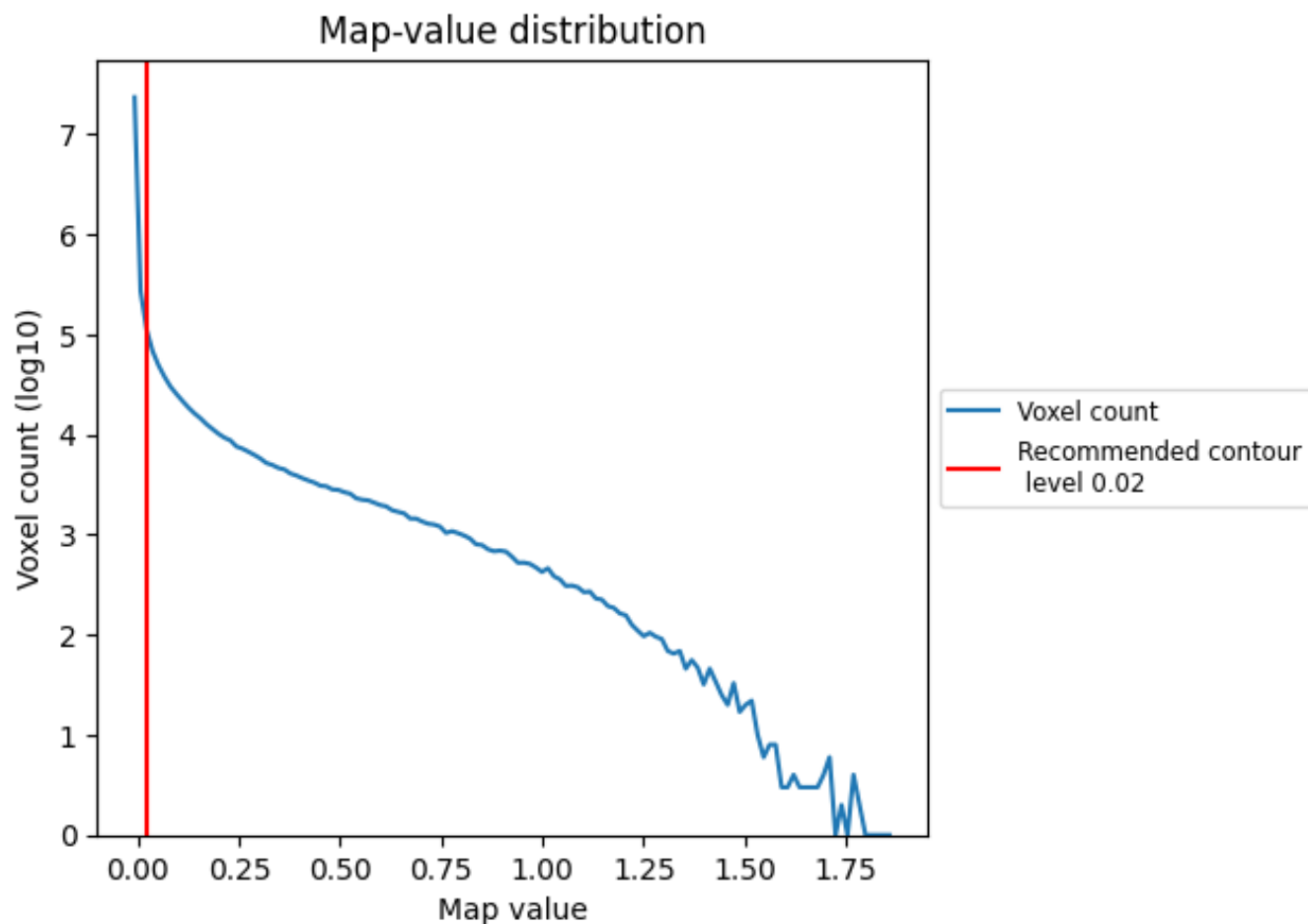
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

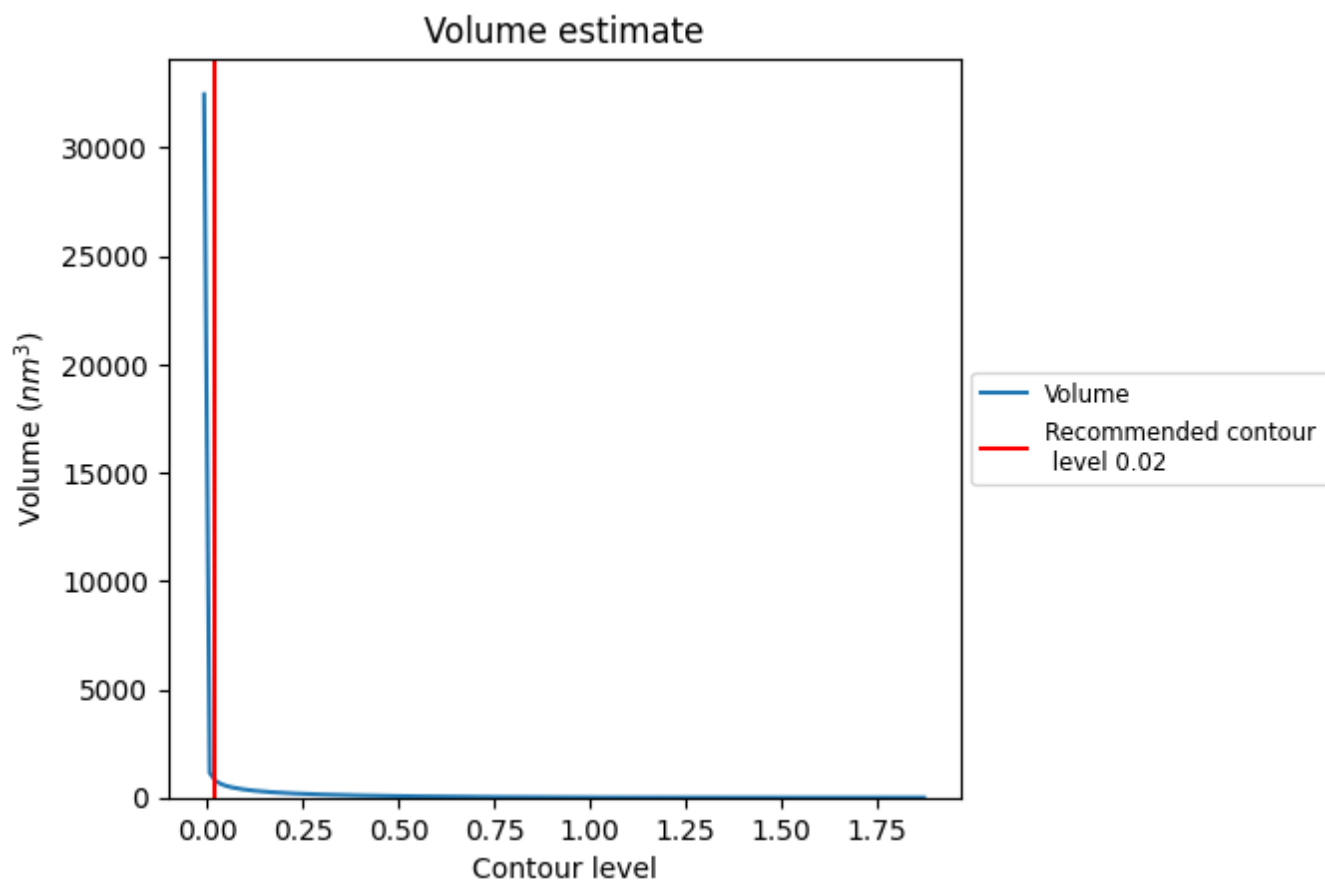
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

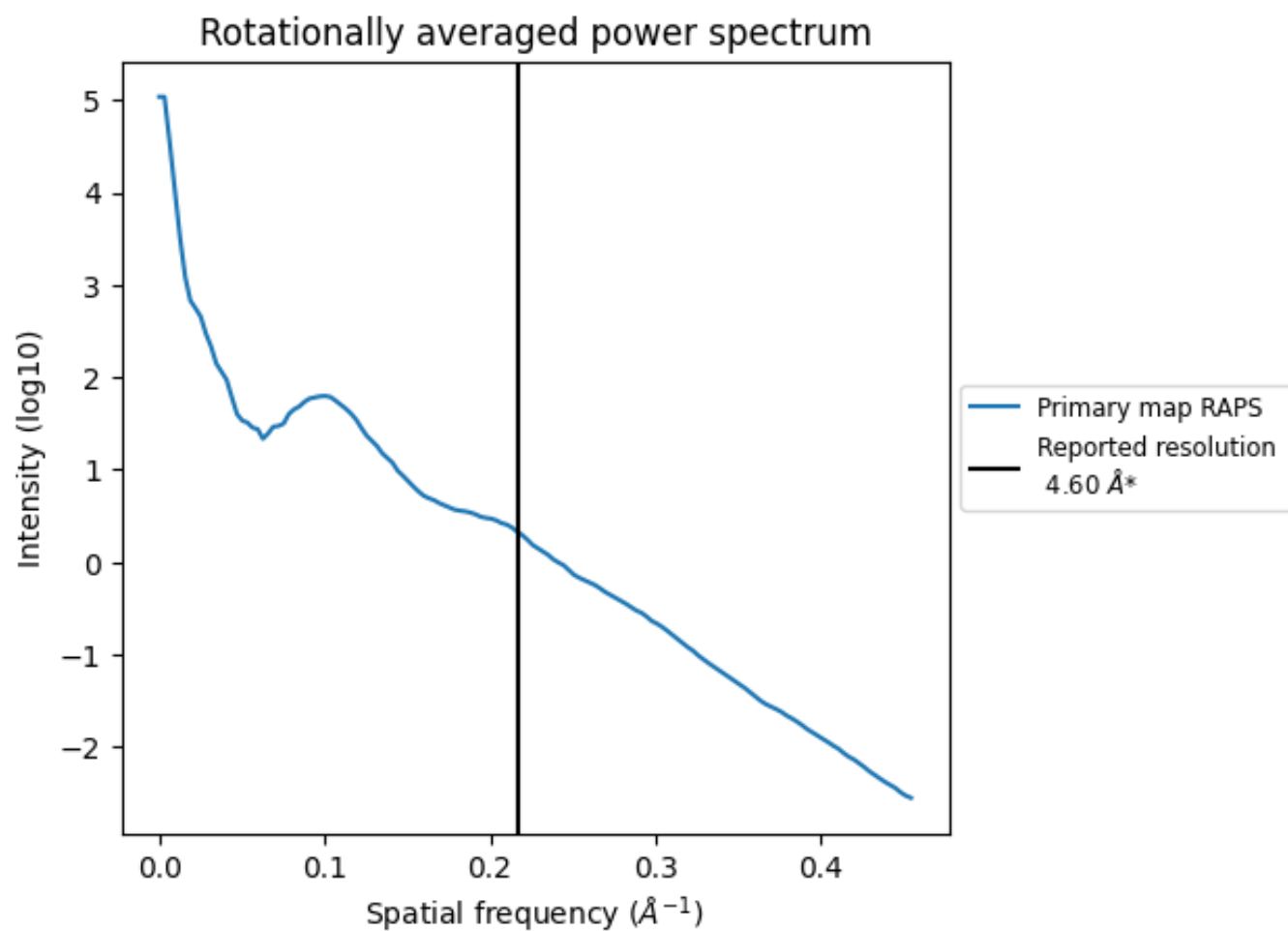
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 789 nm³; this corresponds to an approximate mass of 713 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 ⓘ

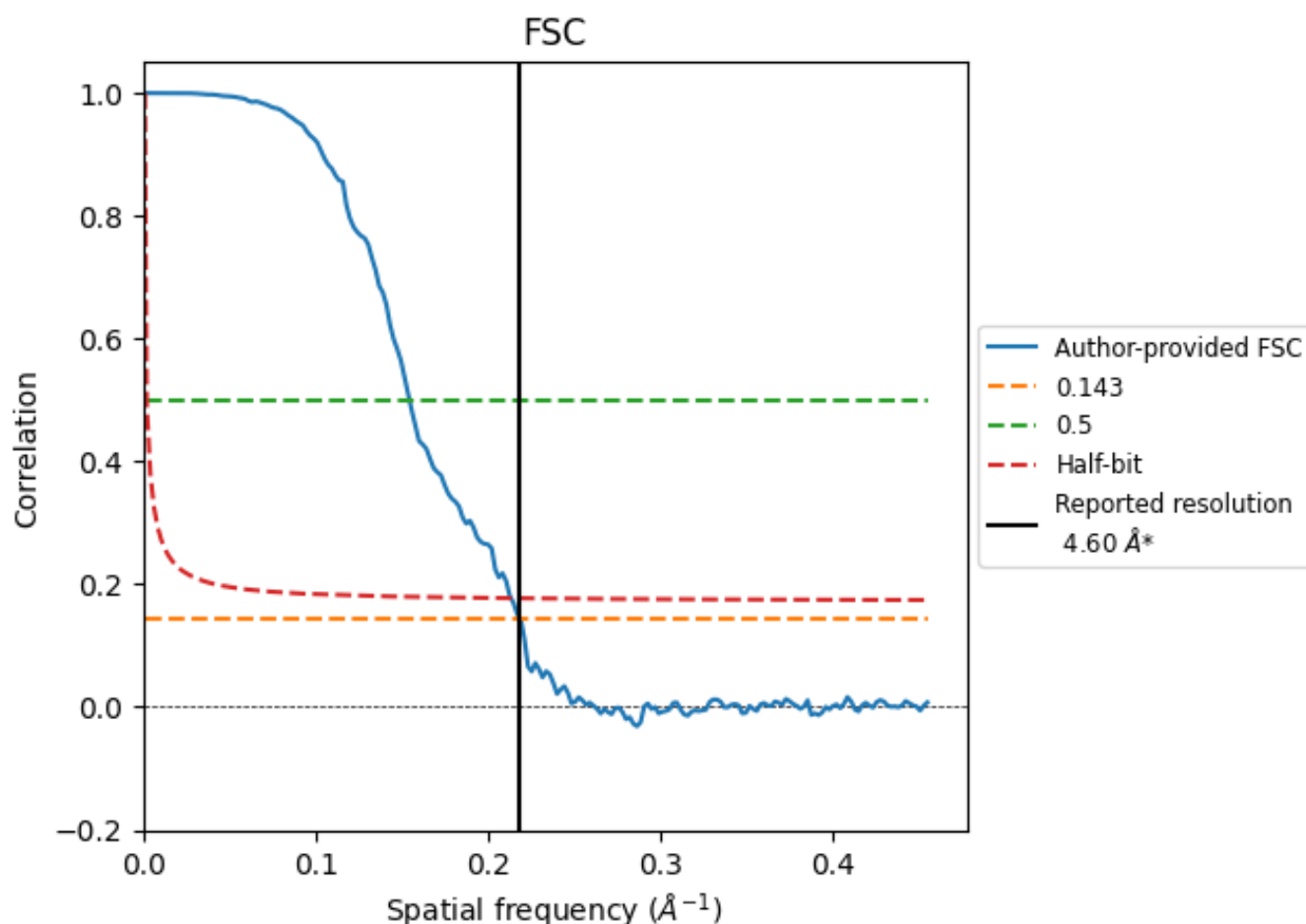


*Reported resolution corresponds to spatial frequency of 0.217 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

8.2 Resolution estimates [i](#)

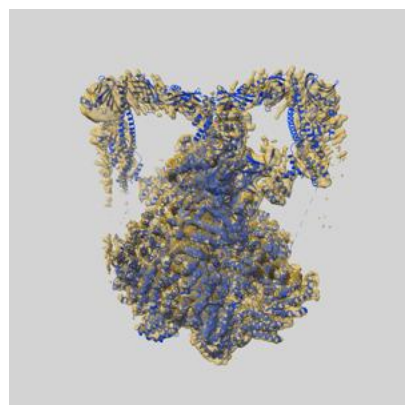
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.57	6.48	4.69
Unmasked-calculated*	-	-	-

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

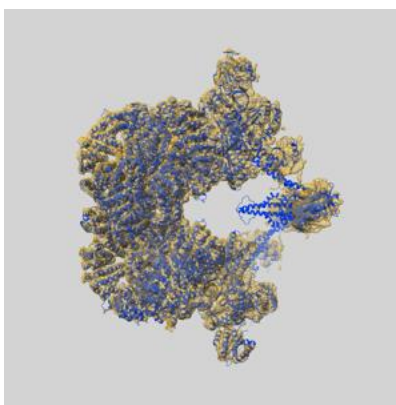
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-23510 and PDB model 7LT3. Per-residue inclusion information can be found in section [3](#) on page [7](#).

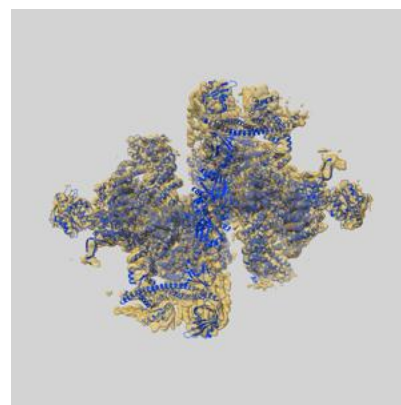
9.1 Map-model overlay [i](#)



X



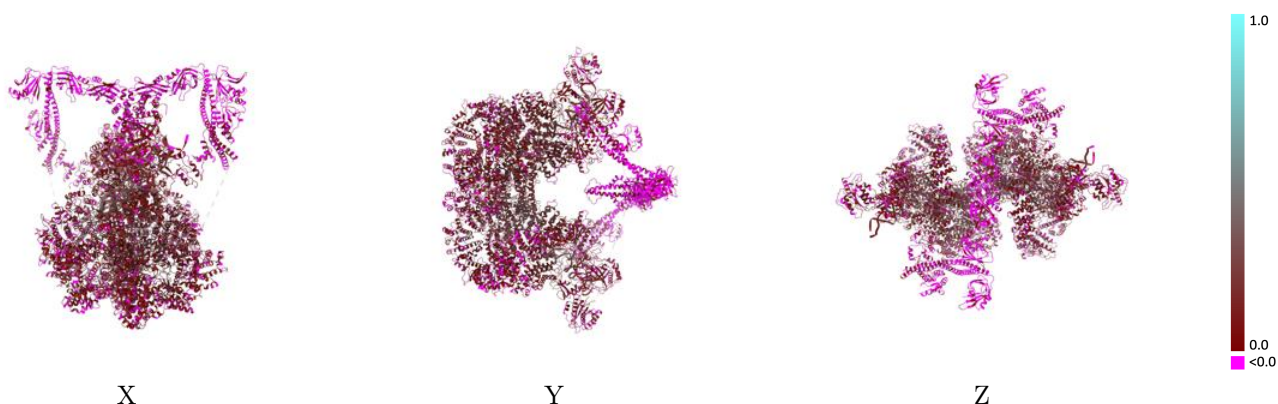
Y



Z

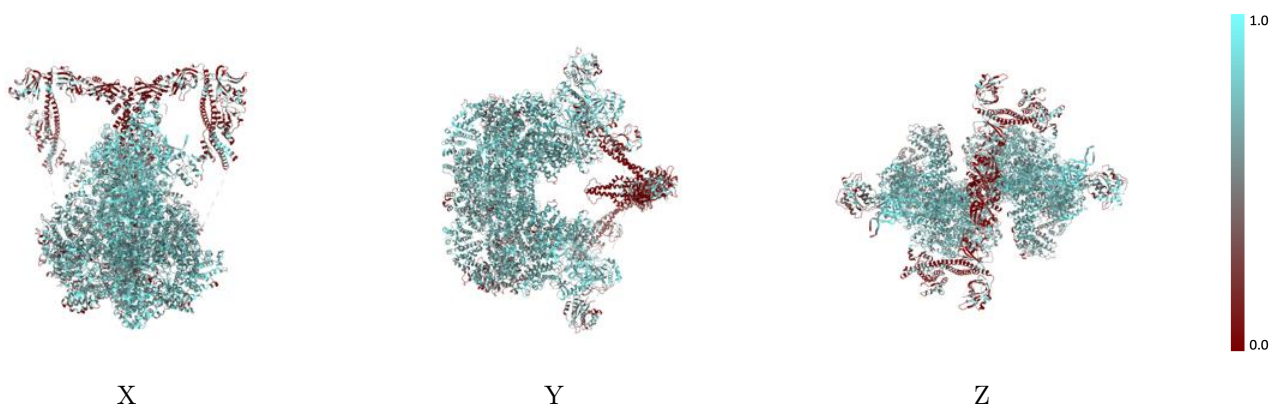
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



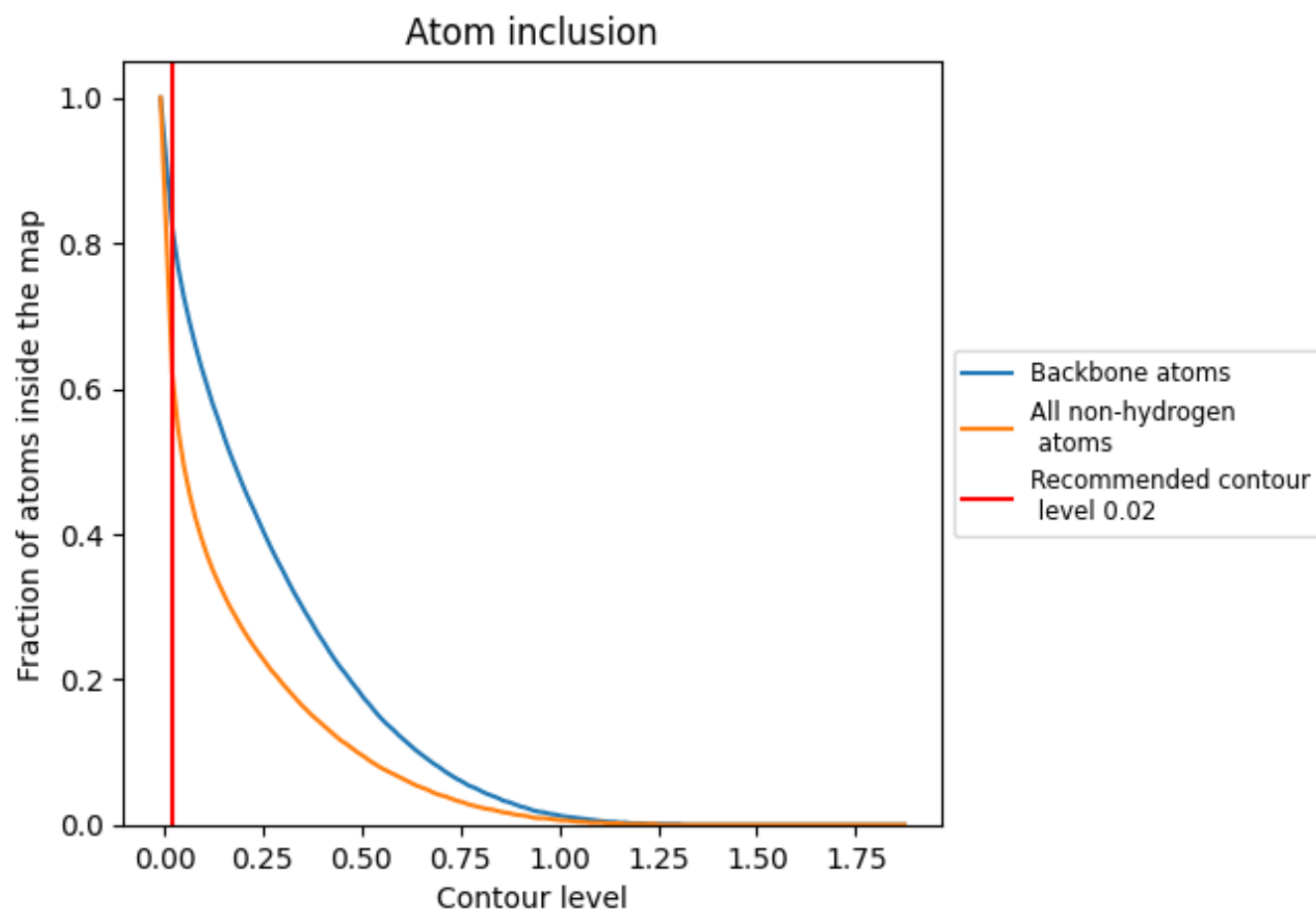
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.02).

9.4 Atom inclusion [i](#)



At the recommended contour level, 82% of all backbone atoms, 62% 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 (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6250	 0.1180
A	 0.6920	 0.1410
B	 0.6190	 0.1190
C	 0.6940	 0.1450
D	 0.9340	 0.2740
E	 0.9370	 0.2930
F	 0.3070	 -0.0340
G	 0.3670	 -0.0580
H	 0.0790	 -0.0220
I	 0.1360	 -0.0420
J	 0.7070	 0.1420
K	 0.5620	 0.1120
L	 0.6810	 0.1410
M	 0.9040	 0.2740
N	 0.9040	 0.2910
O	 0.3130	 -0.0650
P	 0.3470	 -0.0230
Q	 0.2470	 0.1700
R	 0.3660	 0.1090
X	 0.4100	 0.0050
Y	 0.3700	 -0.0030

