



Full wwPDB EM Validation Report ⓘ

Jun 16, 2025 – 05:13 PM EDT

PDB ID : 9E19 / pdb_00009e19
EMDB ID : EMD-47386
Title : Structure of RyR1 in the open state in the presence of pentoxifylline
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2024-10-21
Resolution : 4.04 Å (reported)
Based on initial model : 7TZC

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev118
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.44

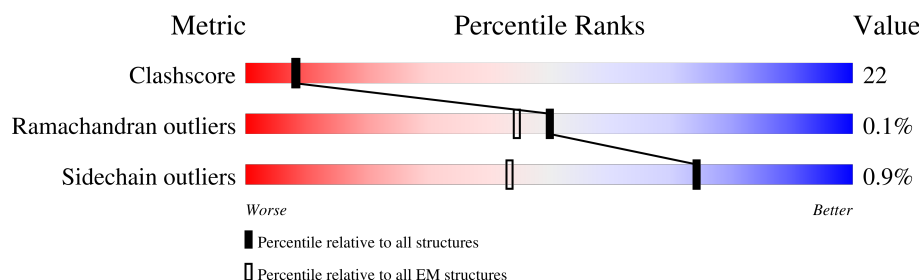
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

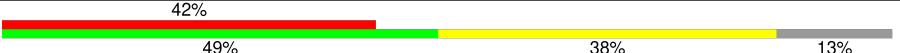
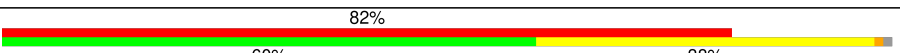
The reported resolution of this entry is 4.04 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	5037	
1	B	5037	
1	C	5037	
1	D	5037	
2	E	108	
2	F	108	
2	G	108	
2	H	108	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 144136 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

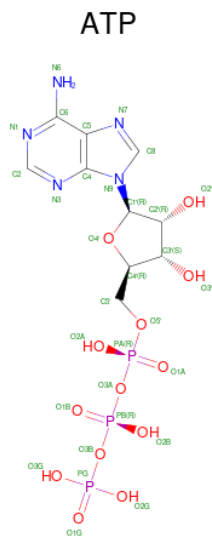
- Molecule 1 is a protein called Ryanodine receptor 1.

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

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

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

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



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

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

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

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

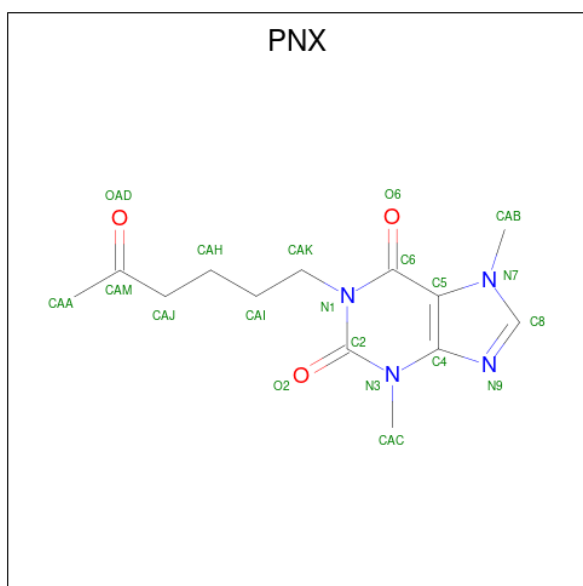
Mol	Chain	Residues	Atoms	AltConf
5	A	1	Total Zn 1 1	0

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

- Molecule 6 is 3,7-DIMETHYL-1-(5-OXOHEXYL)-3,7-DIHYDRO-1H-PURINE-2,6-DIONE (CCD ID: PNK) (formula: C₁₃H₁₈N₄O₃) (labeled as "Ligand of Interest" by depositor).

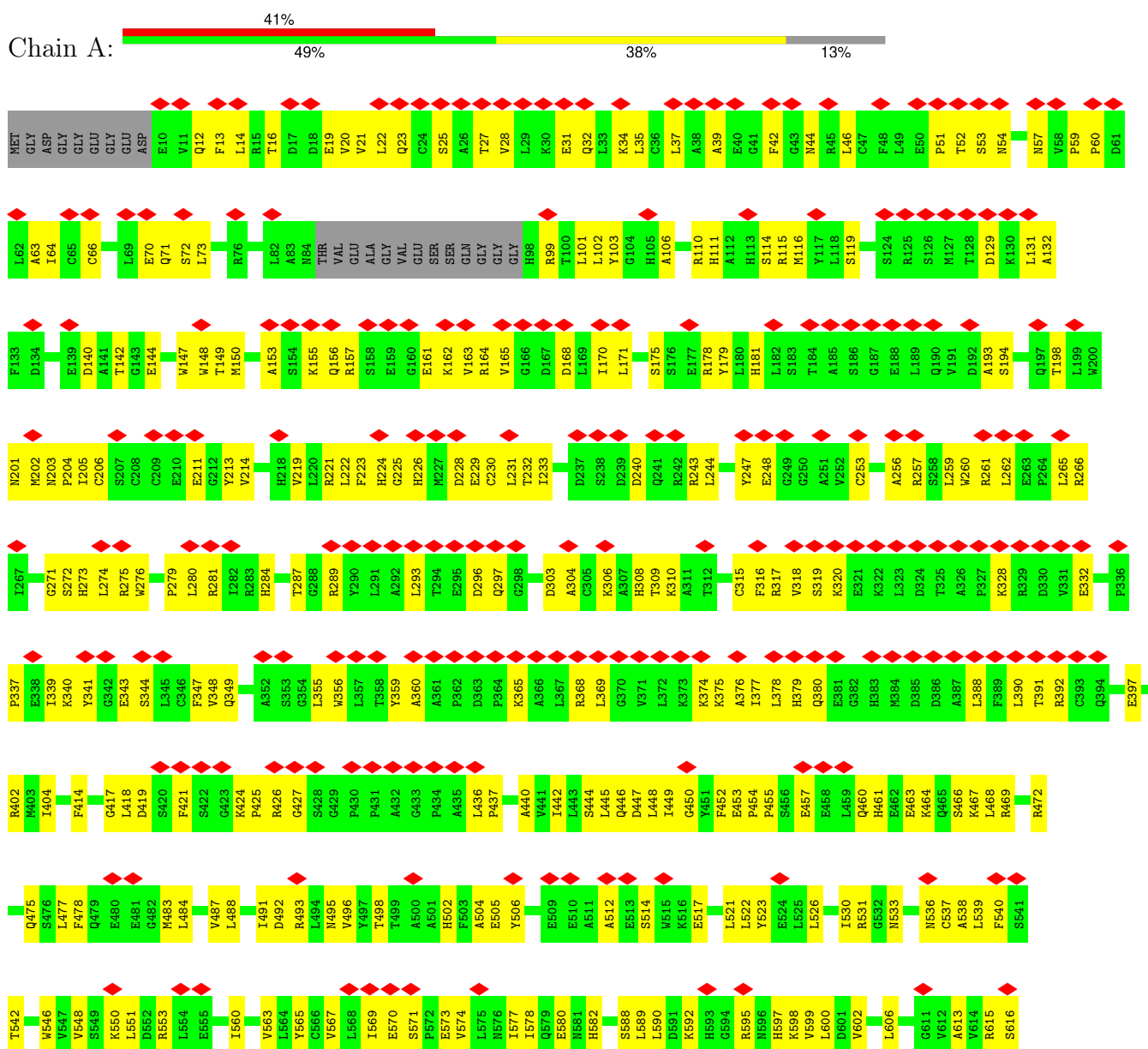


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			20	13	4	3	
6	B	1	Total	C	N	O	0
			20	13	4	3	
6	D	1	Total	C	N	O	0
			20	13	4	3	
6	C	1	Total	C	N	O	0
			20	13	4	3	

3 Residue-property plots

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

• Molecule 1: Ryanodine receptor 1

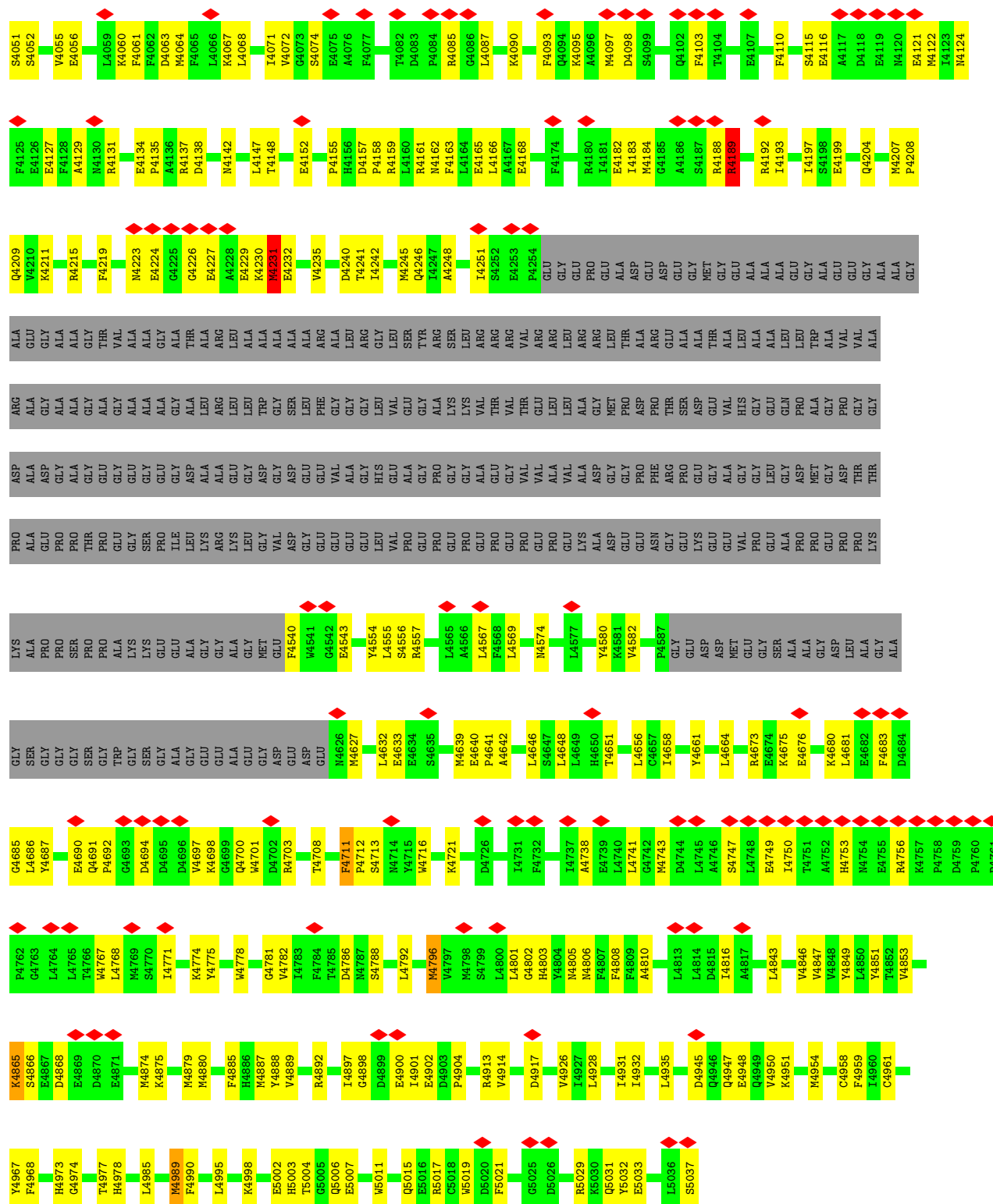




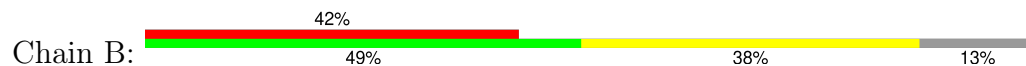
S2300	F2235	G2171	P2091	C2021	H1953	GLU	R1797	D1649	A1578	G1517	D1456
A2303	L2236	P2172	Q2092	P2022	R1954	GLU	L1798	I1650	M1579	C1518	Q1459
G2304	C2237	E2175	S2093	L2023	R1955	GLU	A1801	L1651	F1580	D1521	H1460
C2305	Y2238	G2176	L2094	P2024	E1956	GLU	R1808	E1652	S1581	L1522	D1461
L2307	F2239	L2177	Q2095	E2025	D1809	GLU	R1809	S1654	E1583	T1524	M1462
Q2308	C2240	M2178	E2096	I2027	D1810	GLU	K1810	R1656	M1584	G1526	L1463
S2309	S2243	L2179	V2098	L2031	F1961	ASP	L1738	L1657	K1585	M1527	F1464
S2310	R2244	S2181	M2101	Q2032	R1964	GLU	T1739	D1658	P1589	T1528	D1465
L2313	Q2245	L2182	V2102	A2040	Y1965	GLU	R1813	L1659	Q1590	F1529	L1466
L2314	N2246	G2183	V2103	L2044	V1966	LYS	M1814	Q1660	C1591	T1530	S1467
L2315	Q2247	N2184	A2106	Q2045	D1967	GLU	L1815	R1661	P1592	N1532	K1468
S2316	R2248	L2185	Q2107	Q2046	K1968	ASP	V1819	T1666	P1593	G1533	V1469
D2320	Q2249	K2189	E2108	L2046	L1969	GLU	R1820	L1667	R1594	G1534	R1470
T2321	M2250	V2190	Q1970	GLU	Q1970	GLU	D1821	R1670	L1595	E1535	A1471
D2322	F2251	F2191	S2113	GLU	L1976	GLU	G1822	R1671	Q1598	S1536	V1472
H2323	D2252	Y2192	L2116	GLY	A1977	GLU	P1748	I1676	M1601	N1537	V1474
L2324	H2253	Q2193	L2116	GLY	A1978	LYS	P1749	L1676	P1602	T1538	T1475
S2325	L2254	H2194	M2120	GLU	Y1979	GLU	P1750	H1683	V1603	F1539	M1476
Y2256	S2255	P2195	F2121	PRO	L1980	ALA	G1751	A1684	S1604	F1540	G1477
L2257	Q2256	E2205	S2122	GLU	R1981	GLU	G1753	C1686	V1606	Q1541	D1478
L2258	L2257	E2206	L2123	GLU	A1982	LYS	G1754	C1686	S1606	E1542	A1479
G2328	G2262	A2200	R2126	GLU	A1983	GLU	P1840	C1686	R1607	E1543	Q1480
E2329	Q2263	L2201	Q2127	THR	F1984	GLU	L1844	D1690	M1608	P1544	G1481
L2330	L2263	G2202	Y2128	THR	T1985	GLU	L1849	Q1691	F1612	N1545	N1482
L2331	G2264	H2204	L2129	LEU	S1986	ALA	V1850	A1692	L1613	T1546	V1483
L2332	L2265	T2206	G2132	SER	A1987	PRO	M1851	Q1693	Q1614	K1547	H1484
F2334	G2266	V2207	E2133	ARG	A1988	GLU	G1852	L1694	V1615	F1549	S1485
L2335	Q2267	W2208	L2134	LEU	A1989	GLY	F1854	L1695	E1616	P1550	L1487
L2336	M2267	E2209	L2135	ARG	E1990	LYS	E1857	H1696	R1617	A1551	L1488
F2337	Q2268	V2210	R2136	SER	T1991	ASP	D1858	L1698	R1618	V1552	K1488
A2338	G2269	M2212	A2137	LEU	A1992	GLU	V1859	E1699	R1619	F1553	C1489
V2346	S2270	N2213	L2138	LEU	R1993	THR	K1860	D1700	A1620	V1554	S1490
E2347	T2271	Q2214	P2139	THR	R1994	VAL	M1865	A1701	C1621	L1555	N1491
E2348	L2272	L2215	R2140	THR	T1995	VAL	E1866	H1702	E1622	T1556	C1492
N2349	G2216	G2217	A2141	ARG	R1996	LEU	E1867	L1703	R1623	H1558	Y1493
N2351	Q2217	G2218	Y2142	LEU	E1997	VAL	P1868	P1704	G1625	Q1559	M1494
N2352	G2218	E2219	T2144	VAL	F1998	LYS	P1869	P1706	W1626	N1560	V1495
V2353	E2219	T2220	S2145	LYS	R1999	LYS	V1870	L1707	A1627	V1561	V1496
V2354	T2220	E2221	P2146	GLU	S2000	GLU	F1871	R1708	I1562	Q1563	D1499
R2355	Q2221	E2222	M2153	LYS	Q2003	LYS	T1872	G1710	Q1629	E1565	F1500
L2356	L2282	L2223	L2156	PRO	E2004	GLU	E1873	Y1711	C1630	L1566	V1501
L2357	N2283	T2224	E2157	GLU	Q2005	GLU	E1874	D1713	Q1631	G1567	S1502
E2284	E2285	R2224	C2158	GLU	M2008	GLU	GLU	L1714	D1632	K1568	P1503
L2286	L2287	F2225	L2159	LEU	L2009	GLU	GLU	I1716	A1638	Q1569	Q1505
A2287	A2288	P2226	G2160	LEU	L2010	GLU	GLU	E1721	H1640	K1570	Q1506
A2289	A2289	K2227	Q2161	PRO	H2011	GLU	GLU	S1722	I1641	N1571	G1507
L2290	M2228	V2229	Q2161	ALA	L2012	GLU	GLU	A1723	E1644	M1573	R1508
Q2291	Q2291	V2230	S2164	GLU	K2013	GLU	GLU	C1724	E1645	P1574	T1509
E2292	E2292	T2230	L2165	E2088	D2014	GLU	GLU	A1792	N1645	L1575	S1510
Q2293	Q2293	S2231	L2165	K2089	E2015	GLU	GLU	A1793	R1646	S1576	H1511
D2294	D2294	C2232	M2170	K2090	A2016	GLU	GLU	A1794	C1647	A1577	T1512
K2297	K2297	C2233	R2234	K2090	D2017	GLU	GLU	P1795	M1648		D1513
V2298	V2298				E2018						L1514
V2299	V2299				E2019						V1515
					D2020						T1516

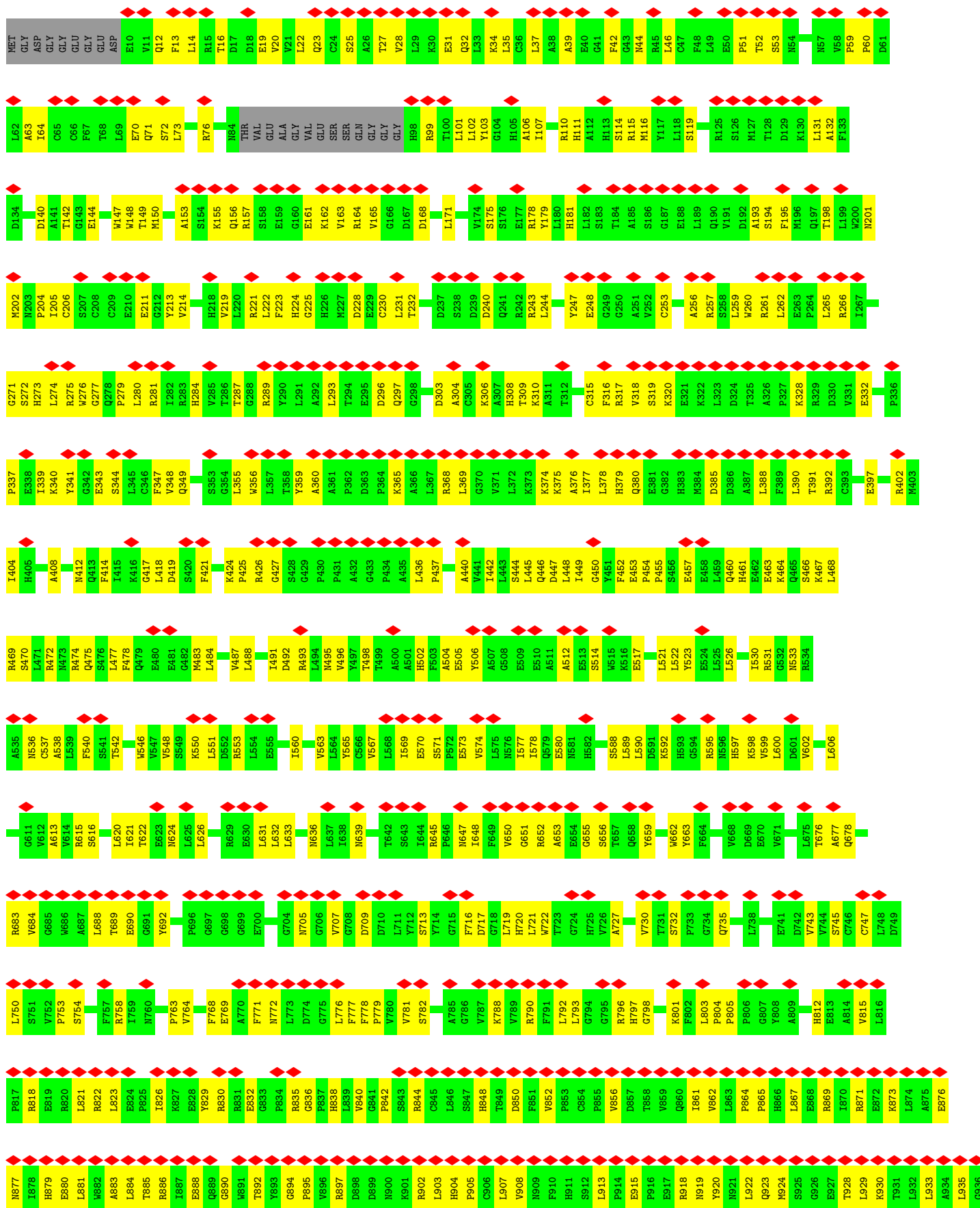


T3966	R3886	E3811	S3732	L3663	Q3597	A3536	K3475	Y3415	H3355	A3295	S3235	L3175
E3967	Q3889	L3817	C3733	D3666	E3598	K3537	S3476	V3416	S3356	L3296	V3236	G3176
Y3968	L3890	D3818	L3735	H3667	V3599	T3538	K3477	D3417	H3357	P3297	E3237	T3177
Q3970	L3891	Y3819	E3736	S3668	A3601	R3539	K3478	N3418	F3358	A3298	E3238	T3178
L3980	H3895	L3820	GLU	Y3669	Y3604	Y3640	M3479	N3419	T3359	G3299	M3239	K3179
A3981	D3822	K3821	GLY	E3670	H3605	A3541	ALA	R3420	T3360	A3300	C3240	N3180
L3984	K3823	D3823	GLY	L3673	L3606	L3542	GLY	A3421	T3361	P3301	P3241	T3181
L3985	K3824	K3824	ASN	T3674	L3607	K3543	ASP	H3422	T3362	P3302	D3242	T3182
V3986	V3826	V3825	E3675	D3676	Q3608	D3544	ALA	W3423	G3363	P3303	I3243	V3183
V3989	F3829	F3829	ALA	L3677	T3609	T3545	GLN	L3424	R3364	C3304	P3244	E3184
G3990	Q3830	Q3830	GLU	L3677	E3610	D3546	SER	T3425	L3365	T3305	V3245	K3185
I3913	L3835	L3835	GLU	A3680	H3611	E3547	GLY	P3427	R3366	A3306	L3246	L3186
I3916	T3838	T3838	GLU	G3681	P3612	E3548	SER	N3428	K3367	V3307	D3247	R3187
I3917	C3839	C3839	GLU	E3682	V3549	E3549	ASP	A3429	R3368	T3308	R3248	F3188
V3920	S3840	S3840	GLU	Q3683	K3614	R3550	GLN	N3430	A3369	S3309	L3249	A3189
Q3927	V3841	V3841	S3684	S3615	F3551	E3551	ARG	A3431	G3370	D3310	M3250	L3190
E3928	L3842	L3842	E3685	K3616	L3553	L3553	THR	E3432	K3371	H3311	A3251	G3191
S3929	D3843	D3843	E3686	A3618	Q3554	Q3554	LYS	E3433	A3374	N3313	D3252	E3192
I3930	L3844	L3844	E3687	V3619	N3556	N3556	LYS	L3434	E3375	S3314	I3253	C3193
S3931	N3845	N3845	E3688	W3620	L3557	L3557	LYS	R3435	E3376	S3315	G3254	L3194
K4002	E3848	E3848	E3689	H3621	H3568	H3568	GLU	M3437	E3377	L3316	L3256	A3195
L4003	R3849	R3849	E3690	K3622	K3569	K3569	GLU	V3438	Q3378	G3317	A3257	R3196
S4007	Q3850	Q3850	E3691	L3623	Q3560	Q3560	ASP	G3439	L3379	N3318	E3258	L3197
S4008	K3851	K3851	E3692	L3624	G3561	G3561	GLN	A3440	R3380	I3319	S3259	A3198
Q4009	A3853	A3853	E3693	S3625	V3563	V3563	GLU	I3441	E3381	R3320	G3260	A3199
L4012	E3854	E3854	K3694	K3626	Q3564	Q3564	LYS	F3442	L3382	L3322	A3261	K3201
L4016	L3855	L3855	D3696	Q3627	S3565	S3565	LYS	I3443	A3383	I3323	T3263	P3202
L4017	G3857	G3857	L3698	R3628	G3565	G3565	LYS	Y3444	K3384	V3324	T3264	V3203
D4018	L3858	L3858	A3775	R3629	S3566	S3566	LYS	S3446	A3385	N3325	E3265	A3204
L4019	V3859	V3859	E3777	R3630	P3567	P3567	LYS	K3447	A3386	N3326	M3266	F3205
Q4020	K3860	K3860	E3778	A3631	S3568	S3568	LYS	S3448	A3387	L3327	P3267	L3206
D4022	E3861	E3861	L3710	R3707	L3569	L3569	LYS	H3449	E3388	G3328	H3268	E3207
Q3946	D3862	D3862	L3711	L3710	K3570	K3570	LYS	N3450	E3389	I3329	V3269	P3208
G3947	G3863	G3863	T3711	T3711	W3571	W3571	LYS	F3451	E3390	I3329	I3270	Q3209
K3948	T3864	T3864	C3635	C3635	Q3572	Q3572	LYS	K3452	G3390	D3330	E3271	L3210
R3949	V3865	V3865	F3636	F3636	K3573	K3573	LYS	R3453	E3391	E3331	I3272	N3211
N3950	L3866	L3866	K3637	K3637	A3574	A3574	LYS	E3454	L3392	A3332	T3273	E3212
F3951	T3867	T3867	M3638	M3638	L3577	L3577	LYS	Q3456	L3393	K3333	L3274	Y3213
S3952	N3868	N3868	T3639	T3639	R3577	R3577	LYS	N3457	V3394	W3334	P3275	N3214
A3954	Q3869	Q3869	L3642	L3642	L3579	L3579	LYS	F3459	R3395	M3335	M3276	R3215
M3955	N3870	N3870	N3643	N3643	P3580	P3580	LYS	V3459	D3396	K3336	C3216	A3215
S3956	K3871	K3871	L3644	L3644	G3581	G3581	LYS	Q3461	E3397	R3337	L3277	S3217
A3958	D3872	D3872	T3646	T3646	R3582	R3582	LYS	N3462	A3399	L3338	S3279	V3218
K3959	L3873	L3873	R3647	R3647	E3583	E3583	LYS	E3463	V3400	V3340	Y3280	Y3219
Q3960	S3874	S3874	A3649	A3649	E3584	E3584	LYS	I3464	F3398	P3382	L3281	T3220
L4046	K3875	K3875	L3724	L3724	P3527	P3527	LYS	N3465	C3402	F3341	T3282	T3221
M4047	D3877	D3877	A3659	A3659	T3528	T3528	LYS	M3467	R3403	Q3344	W3285	K3222
L4048	E3878	E3878	C3650	C3650	A3586	A3586	LYS	K3468	D3404	I3345	F3224	S3223
V4049	F3880	F3880	N3651	N3651	D3587	D3587	LYS	S3469	L3405	E3286	E3286	R3224
L4050			M3652	M3652	P3588	P3588	LYS	L3470	V3406	V3346	R3287	R3225
			F3653	F3653	P3589	P3589	LYS	T3471	A3407	S3347	G3288	E3226
			K3658	K3658	E3590	E3590	LYS	L3472	L3408	R3348	P3289	R3227
			A3659	A3659	K3591	K3591	LYS	S3472	Y3409	A3349	E3290	A3228
			L3662	L3662	V3593	V3593	LYS	D3473	P3410	R3350	P3292	I3229
					R3594	R3594	LYS	S3474	L3412	F3351	P3293	L3230
					V3595	V3595	LYS		L3413	L3353	P3294	G3231
							LYS		R3414	L3354		P3232
												N3234



• Molecule 1: Ryanodine receptor 1



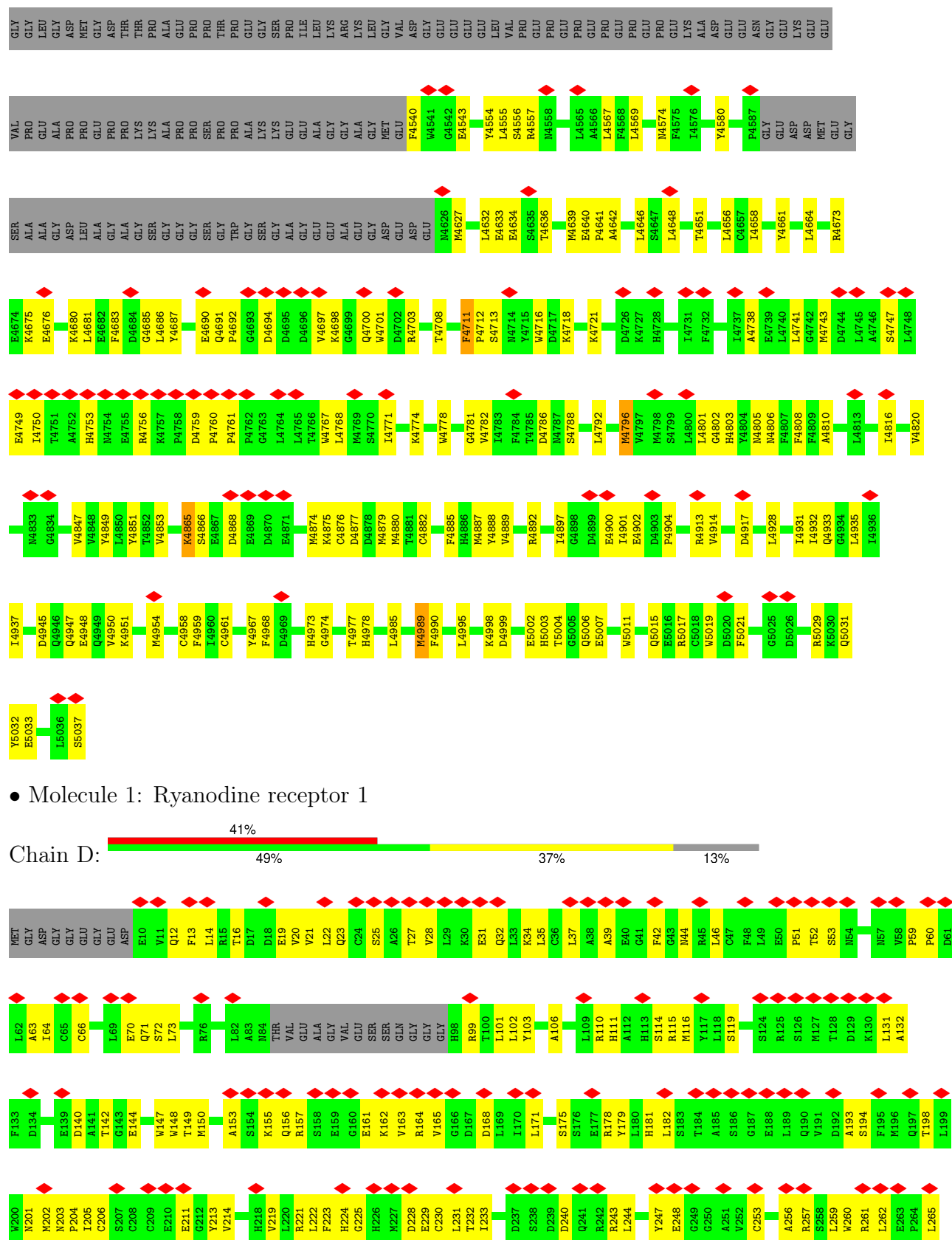


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A1723	M1648	E1518	L1581	Q1459	LYS	ASN	GLY	Q1198	S1136	W1069	V1010	E947
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	L1651	L1522	K1585	D1461	ALA	ALA	L1272	G1200	F1138	R1071	D1012	N949
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	E1655	GLN		D1464	MET	GLY	W1276	G1205	W1143	R1076	A1015	K952
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	N1532	LEU		A1471	LEU	GLY	L1283		V1149	P1023	Y1024	Y959
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		P1424		S1486	VAL	VAL	Q1299		M1165	W1102	L1039	S973
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		L1428		S1490	VAL	VAL	C1303		M1170	P1107	A1042	L977
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		Q1443		S1502	GLN	GLN	PRO		R1180	E1119	I1053	L988
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				Q1505					E1183	V1123	D1057	G992
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												R998

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A2637	I2577	E2513	A2450	L2377	S2309	R2244	S2181	L2097	P2024	A1960	ASP	
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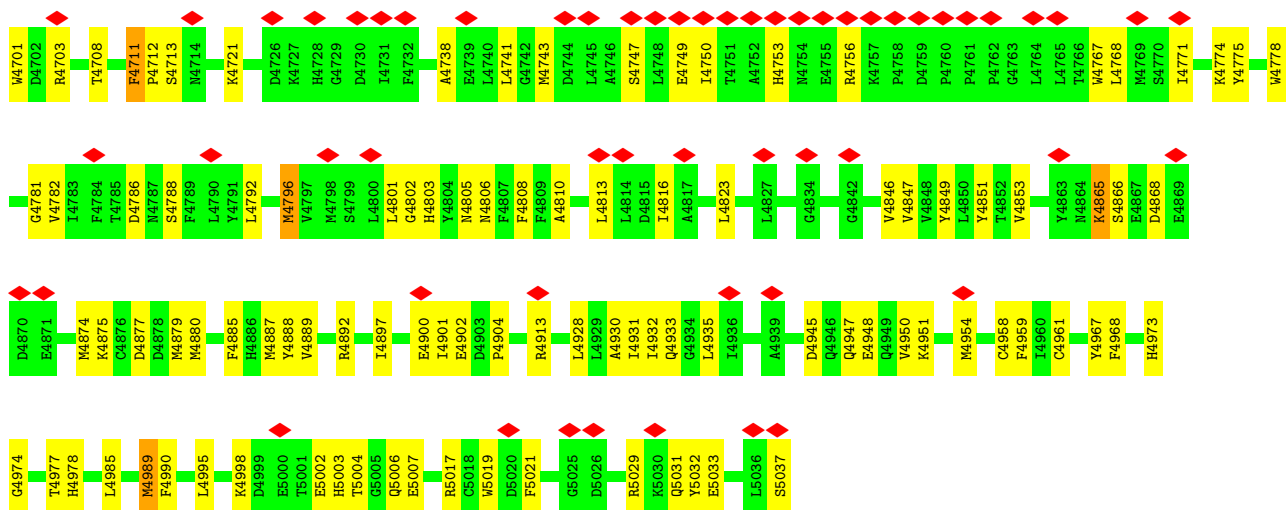




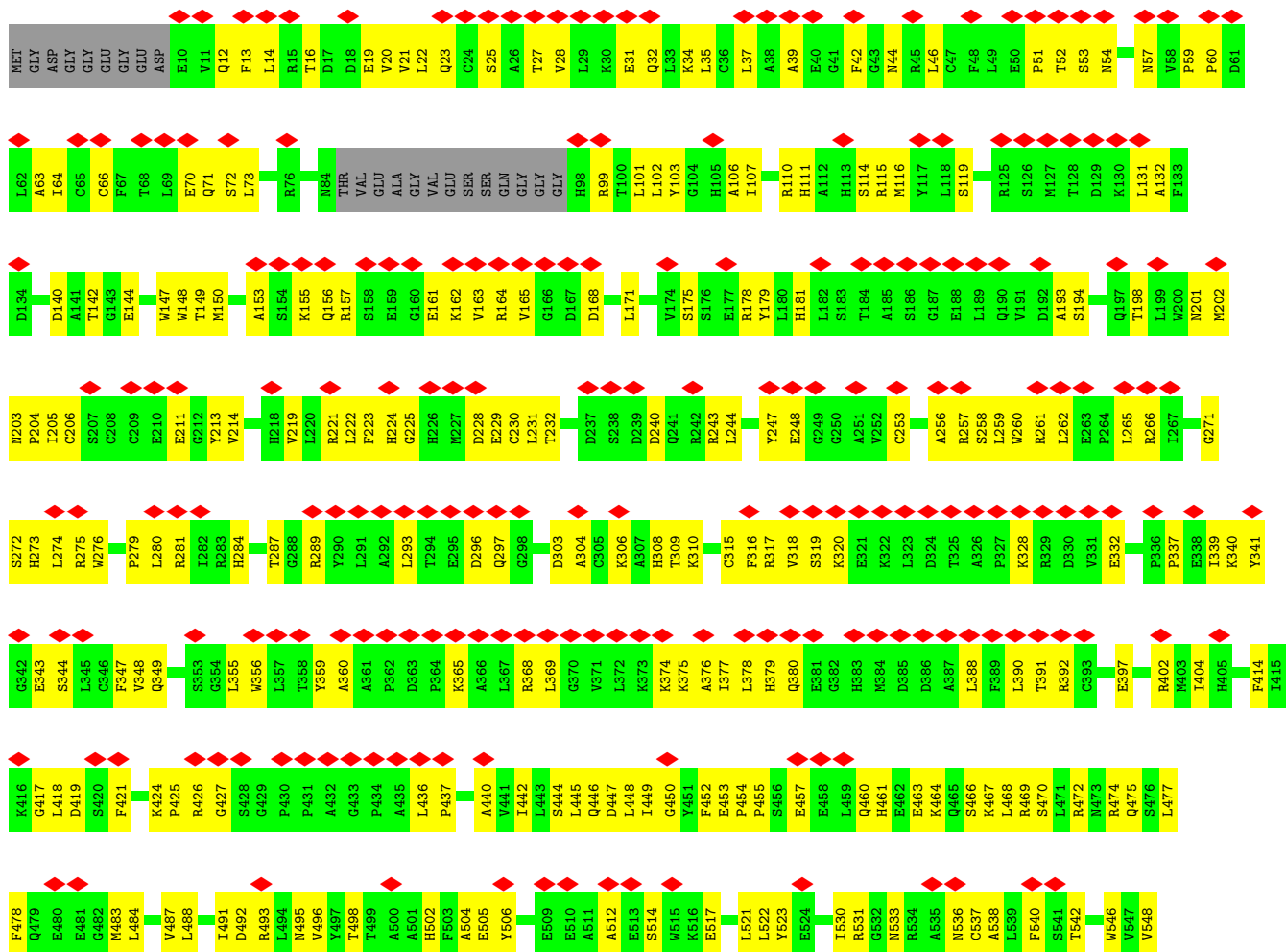
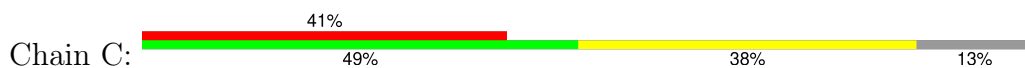


WORLDWIDE
PDB
PROTEIN DATA BANK





• Molecule 1: Ryanodine receptor 1





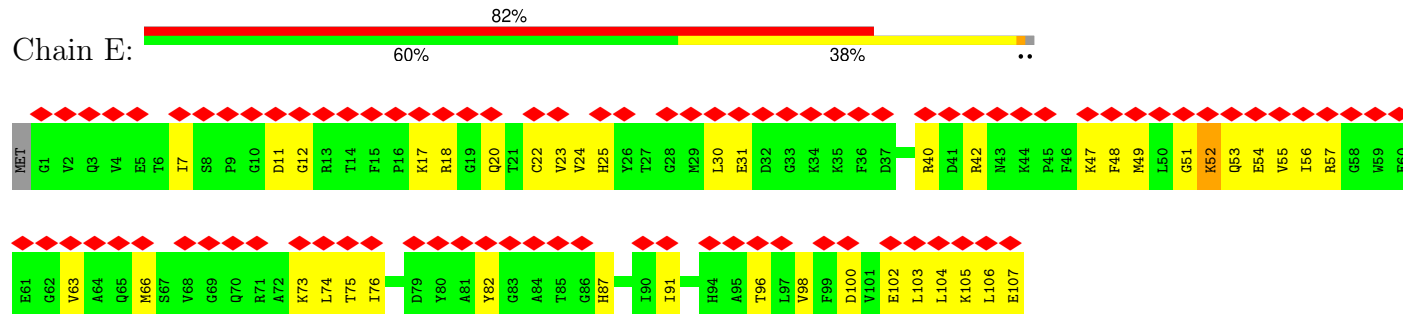


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K2303	G2304	C2305	G2306	L2307	Q2308	S2309	C2310	L2313	L2314	A2315	K2316	V2320	I2321	G2322	V2323	N2324	G2328	E2329	R2330	Y2331	L2332	D2333	F2334	R2335	R2336	F2337	A2338	N2342	V2346	E2347	E2348	N2349	N2351	V2352	R2354	R2355	L2356	L2357	I2358	R2359	K2360	P2361	E2362	C2363	F2364	R2365	P2366	A2367	L2368	R2369	G2370	E2371										
I2443	K2447	E2448	E2449	A2450	L2451	L2452	L2453	R2454	L2457	R2458	S2459	L2460	D2464	D2465	L2466	T2469	I2470	S2471	D2472	P2473	L2474	Q2475	T2476	P2477	T2478	L2479	G2480	K2481	D2482	G2483	A2484	L2485	V2486	Q2487	P2488	K2489	M2490	S2491	A2492	S2493	F2494	D2497	H2498	K2499	A2500	S2501	M2502	V2503	L2504	F2505	L2506	D2507	R2508									

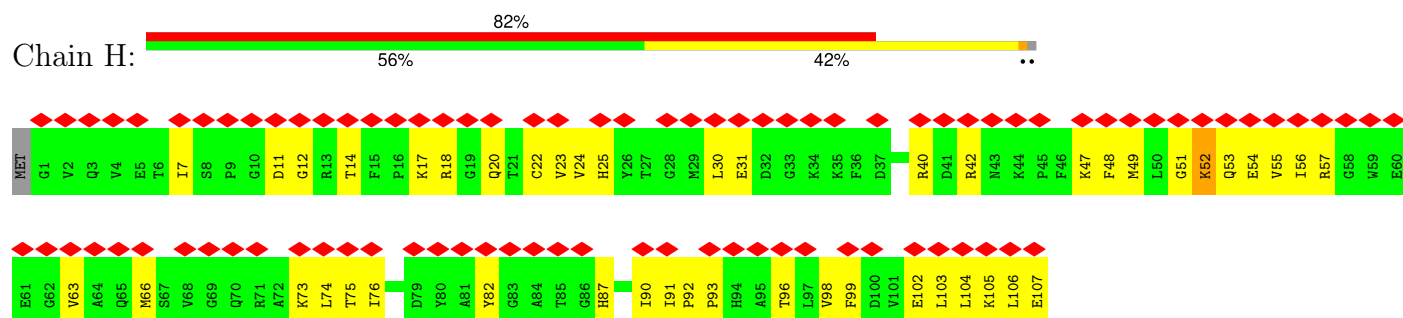
G3908	K3823	GLU	F3669	R3539	N3418	F3558	P3297	E3237	T3177	V3115
K3909	K3824	GLY	E3670	Y3640	N3419	I3359	A3298	E3238	T3178	S3116
E3825	V3826	GLY	M3673	A3541	R3420	P3360	G3299	M3239	K3179	GLN
I3913	F3829	ASN	I3674	L3542	A3421	T3361	A3300	C3240	N3180	ALA
I3916	Q3830	GLY	D3675	K3543	H3422	I3362	P3301	P3241	T3181	ARG
I3917	Q3830	GLU	D3676	D3544	W3423	G3363	P3302	D3242	T3182	THR
V3920	L3835	ALA	L3677	T3545	L3424	R3364	P3303	I3243	V3183	GLN
T3838	T3838	GLU	A3680	D3546	P3427	L3365	C3304	P3244	K3184	VAL
L3842	L3842	GLU	G3681	E3547	N3428	R3366	T3305	V3245	K3185	K3123
D3843	D3843	E3682	Q3682	E3548	N3429	K3367	A3306	V3246	L3186	K3124
L3844	L3844	Q3683	Q3683	V3549	A3429	R3368	V3307	L3246	R3187	V3125
N3845	N3845	E3684	E3684	R3550	N3430	A3369	T3308	D3247	Q3127	G3126
E3848	E3848	E3685	E3685	F3551	A3431	G3370	S3309	R3248	P3188	Q3127
R3849	R3849	E3686	E3686	F3552	E3432	K3371	D3310	L3249	A3189	N3128
Q3850	Q3850	E3687	E3687	L3553	E3433	V3372	H3311	L3250	L3190	L3129
N3851	N3851	E3688	E3688	Q3554	L3434	V3373	L3312	A3251	G3191	T3130
K3852	K3852	E3689	E3689	N3555	F3435	A3374	N3313	D3252	E3192	Y3131
E3853	E3853	V3690	V3690	N3556	R3436	E3375	I3253	I3253	C3193	T3132
E3854	E3854	E3691	E3691	L3557	R3437	E3376	G3254	G3255	L3194	T3133
G3855	G3855	K3622	K3622	H3558	V3438	E3377	L3315	G3256	A3195	V3134
L3856	L3856	L3623	L3623	L3559	Q3439	Q3378	L3316	A3257	R3196	A3135
G3857	G3857	Q3624	Q3624	Q3560	E3440	R3379	G3317	E3257	L3197	L3136
M3858	M3858	S3625	S3625	G3561	I3441	R3380	N3318	E3258	A3198	L3137
V3859	V3859	K3626	K3626	K3562	F3442	L3381	I3319	S3259	A3199	L3138
N3860	N3860	Q3627	Q3627	V3563	Y3443	A3382	L3320	G3260	A3200	P3138
R3860	R3860	E3628	E3628	E3564	Y3444	A3383	T3322	A3261	M3201	V3139
E3861	E3861	R3629	R3629	E3565	Y3445	K3384	I3323	R3262	M3202	L3140
D3862	D3862	S3630	S3630	G3566	S3446	A3385	V3324	T3264	V3203	T3141
G3863	G3863	A3631	A3631	P3567	K3447	E3386	N3325	E3265	A3204	L3142
L3864	L3864	V3632	V3632	S3568	S3448	A3387	N3326	K3266	F3205	L3143
V3865	V3865	Q3633	Q3633	V3571	R3449	E3388	L3327	P3267	F3144	F3144
I3866	I3866	A3634	A3634	Q3672	K3452	E3389	G3328	H3268	F3145	K3145
N3867	N3867	C3635	C3635	M3573	R3453	E3390	T3329	V3269	E3207	H3146
Q3868	Q3868	F3636	F3636	R3577	E3454	E3391	E3331	E3271	L3210	I3147
R3869	R3869	M3637	M3637	G3578	Q3455	L3392	A3332	I3272	A3148	I3147
N3870	N3870	K3638	K3638	L3579	E3456	L3393	T3273	T3273	H3150	Q3151
E3871	E3871	T3639	T3639	L3579	N3457	V3394	T3274	L3274	Q3151	F3152
K3873	K3873	L3640	L3640	P3580	F3458	R3395	M3335	P3275	G3153	G3153
V3874	V3874	N3641	N3641	Q3581	V3459	E3396	K3336	M3276	D3154	D3154
M3875	M3875	Y3642	Y3642	R3582	Y3460	E3397	R3337	L3277	D3155	D3155
D3876	D3876	N3643	N3643	E3583	Q3461	F3398	L3338	C3278	V3156	V3156
E3879	E3879	L3644	L3644	E3584	N3462	S3399	A3339	S3279	I3157	I3157
F3880	F3880	T3646	T3646	D3585	E3463	V3400	V3340	V3280	L3158	L3158
R3886	R3886	H3647	H3647	A3586	E3464	L3401	F3341	L3281	D3159	D3159
Q3889	Q3889	A3648	A3648	D3587	N3465	C3402	A3342	P3282	D3160	D3160
L3890	L3890	C3650	C3650	P3588	K3466	R3403	Q3343	R3283	V3161	V3161
K3891	K3891	N3651	N3651	F3589	Q3467	D3404	P3344	W3284	G3162	G3162
H3895	H3895	M3652	M3652	Q3590	S3468	L3405	W3285	W3285	V3166	V3166
F3899	F3899	F3653	F3653	E3591	F3469	Y3406	E3286	E3286	T3168	T3168
		K3658	K3658	L3592	L3470	A3407	R3287	R3287	C3170	C3170
		V3659	V3659	V3593	T3471	L3408	Q3347	Q3347	SS171	SS171
		R3594	R3594	R3594	A3472	Y3409	R3348	P3289	I3229	I3229
		K3662	K3662	L3595	D3473	P3410	R3289	E3290	L3230	L3230
		L3663	L3663	A3536	S3475	L3411	A3291	A3291	G3231	G3231
		D3666	D3666	Q3597	K3476	L3412	P3293	P3293	V3173	V3173
		H3667	H3667	E3598	K3477	I3413	P3294	P3294	SS174	SS174
		V3599	V3599	V3599	S3476	R3414	L3354	L3354	L3175	L3175
		S3600	S3600	T3598	K3478	V3415	H3355	H3355	G3176	G3176
		A3601	A3601		N3478		L3357	L3357	V3236	V3236



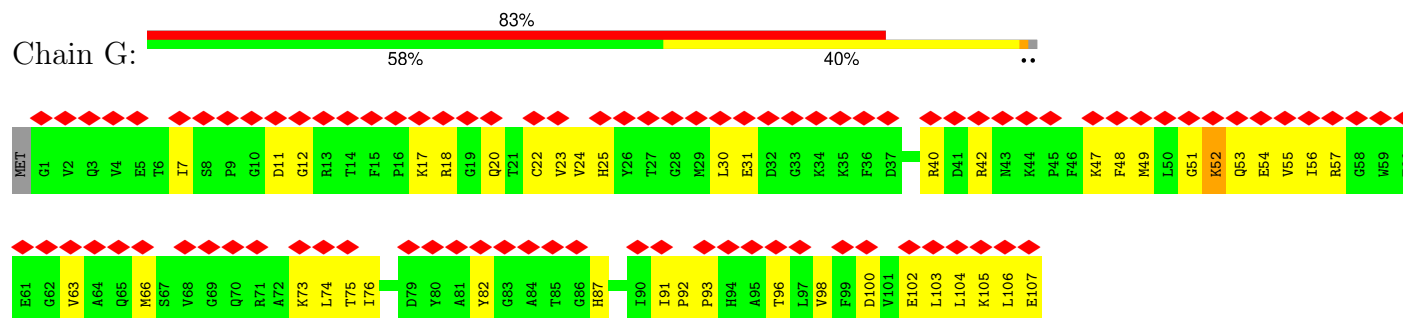
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



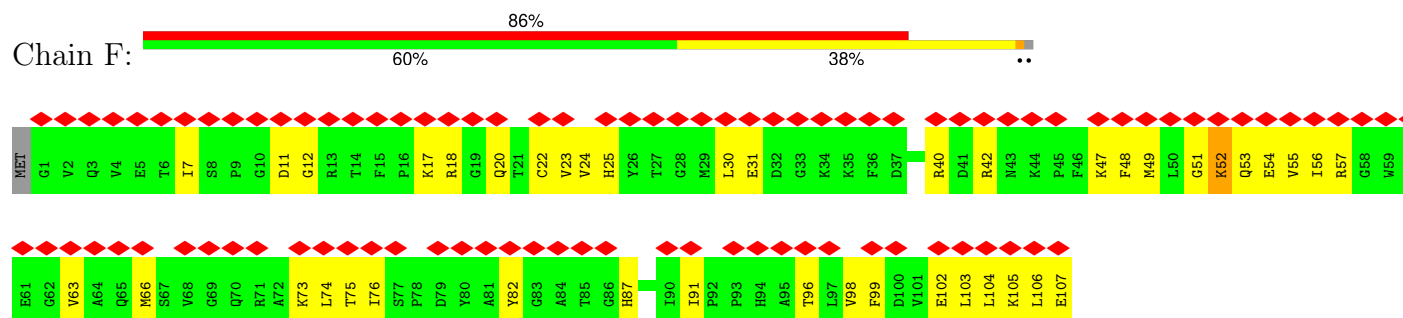
● Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1A



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



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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	3336	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.283	Depositor
Minimum map value	-0.122	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.018	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	428.544, 428.544, 428.544	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.837, 0.837, 0.837	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.17	0/35977	0.47	10/48726 (0.0%)
1	B	0.18	0/35977	0.47	10/48726 (0.0%)
1	C	0.18	0/35977	0.47	10/48726 (0.0%)
1	D	0.18	0/35977	0.47	10/48726 (0.0%)
2	E	0.17	0/850	0.51	0/1146
2	F	0.17	0/850	0.51	0/1146
2	G	0.17	0/850	0.51	0/1146
2	H	0.17	0/850	0.51	0/1146
All	All	0.18	0/147308	0.47	40/199488 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
All	All	0	8

There are no bond length outliers.

All (40) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2578	MET	CB-CG-SD	8.39	137.88	112.70
1	A	2578	MET	CB-CG-SD	8.38	137.85	112.70
1	B	2578	MET	CB-CG-SD	8.38	137.85	112.70
1	C	2578	MET	CB-CG-SD	8.38	137.83	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1071	ARG	CA-CB-CG	7.72	129.54	114.10
1	C	1071	ARG	CA-CB-CG	7.71	129.51	114.10
1	D	1071	ARG	CA-CB-CG	7.71	129.51	114.10
1	B	1071	ARG	CA-CB-CG	7.69	129.48	114.10
1	B	2876	GLU	CA-CB-CG	6.90	127.90	114.10
1	C	2876	GLU	CA-CB-CG	6.90	127.90	114.10
1	A	2876	GLU	CA-CB-CG	6.89	127.89	114.10
1	D	2876	GLU	CA-CB-CG	6.89	127.88	114.10
1	D	2932	MET	CB-CG-SD	-6.75	92.46	112.70
1	B	2932	MET	CB-CG-SD	-6.75	92.46	112.70
1	A	2932	MET	CB-CG-SD	-6.74	92.48	112.70
1	C	2932	MET	CB-CG-SD	-6.74	92.48	112.70
1	C	4231	MET	CB-CG-SD	6.21	131.32	112.70
1	A	4231	MET	CB-CG-SD	6.20	131.31	112.70
1	B	4231	MET	CB-CG-SD	6.20	131.31	112.70
1	D	4231	MET	CB-CG-SD	6.20	131.31	112.70
1	C	4189	ARG	CG-CD-NE	5.99	125.17	112.00
1	A	4189	ARG	CG-CD-NE	5.99	125.17	112.00
1	D	4189	ARG	CG-CD-NE	5.99	125.17	112.00
1	B	4189	ARG	CG-CD-NE	5.97	125.14	112.00
1	B	2530	MET	CB-CG-SD	-5.92	94.93	112.70
1	A	2530	MET	CB-CG-SD	-5.92	94.94	112.70
1	C	2530	MET	CB-CG-SD	-5.92	94.94	112.70
1	D	2530	MET	CB-CG-SD	-5.92	94.95	112.70
1	B	1071	ARG	CB-CG-CD	5.72	124.46	111.30
1	C	1071	ARG	CB-CG-CD	5.72	124.45	111.30
1	D	1071	ARG	CB-CG-CD	5.71	124.44	111.30
1	A	1071	ARG	CB-CG-CD	5.70	124.41	111.30
1	C	2932	MET	CB-CA-C	-5.37	102.39	110.92
1	A	2932	MET	CB-CA-C	-5.35	102.41	110.92
1	B	2932	MET	CB-CA-C	-5.33	102.45	110.92
1	D	2932	MET	CB-CA-C	-5.32	102.45	110.92
1	B	4189	ARG	CD-NE-CZ	5.23	131.72	124.40
1	A	4189	ARG	CD-NE-CZ	5.22	131.71	124.40
1	C	4189	ARG	CD-NE-CZ	5.22	131.70	124.40
1	D	4189	ARG	CD-NE-CZ	5.21	131.70	124.40

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1608	MET	Peptide

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Mol	Chain	Res	Type	Group
1	A	4189	ARG	Sidechain
1	B	1608	MET	Peptide
1	B	4189	ARG	Sidechain
1	C	1608	MET	Peptide
1	C	4189	ARG	Sidechain
1	D	1608	MET	Peptide
1	D	4189	ARG	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	35150	0	34793	1543	0
1	B	35150	0	34793	1545	0
1	C	35150	0	34793	1531	0
1	D	35150	0	34793	1504	0
2	E	831	0	831	32	0
2	F	831	0	831	29	0
2	G	831	0	831	32	0
2	H	831	0	831	33	0
3	A	31	0	12	1	0
3	B	31	0	12	1	0
3	C	31	0	12	1	0
3	D	31	0	12	1	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
6	A	20	0	18	2	0
6	B	20	0	18	2	0
6	C	20	0	18	1	0
6	D	20	0	18	1	0
All	All	144136	0	142616	6164	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 22.

All (6164) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2639:MET:HG2	1:B:2640:PRO:HD3	1.47	0.97
1:C:2639:MET:HG2	1:C:2640:PRO:HD3	1.47	0.96
1:D:2639:MET:HG2	1:D:2640:PRO:HD3	1.47	0.96
1:A:2639:MET:HG2	1:A:2640:PRO:HD3	1.47	0.96
1:A:4061:PHE:HA	1:A:4064:MET:HE2	1.50	0.93
1:B:4061:PHE:HA	1:B:4064:MET:HE2	1.50	0.93
1:B:2700:MET:HE1	1:B:3000:LYS:HB3	1.52	0.92
1:C:2211:MET:HE2	1:C:2232:CYS:HB3	1.52	0.92
1:C:4061:PHE:HA	1:C:4064:MET:HE2	1.50	0.92
1:D:4061:PHE:HA	1:D:4064:MET:HE2	1.50	0.92
1:D:2211:MET:HE2	1:D:2232:CYS:HB3	1.52	0.92
1:A:2700:MET:HE1	1:A:3000:LYS:HB3	1.52	0.92
1:D:2700:MET:HE1	1:D:3000:LYS:HB3	1.52	0.91
1:B:2211:MET:HE2	1:B:2232:CYS:HB3	1.52	0.91
1:C:2700:MET:HE1	1:C:3000:LYS:HB3	1.52	0.90
1:A:2211:MET:HE2	1:A:2232:CYS:HB3	1.52	0.90
1:A:2821:TRP:NE1	1:A:2874:MET:SD	2.46	0.89
1:D:2821:TRP:NE1	1:D:2874:MET:SD	2.46	0.88
1:B:2821:TRP:NE1	1:B:2874:MET:SD	2.46	0.87
1:C:2821:TRP:NE1	1:C:2874:MET:SD	2.46	0.87
1:B:1067:SER:O	1:B:1071:ARG:HB2	1.76	0.85
1:A:1067:SER:O	1:A:1071:ARG:HB2	1.76	0.85
1:C:2607:LEU:HD22	1:C:2643:LEU:HD11	1.60	0.84
1:C:1067:SER:O	1:C:1071:ARG:HB2	1.76	0.84
1:C:3889:GLN:HG3	1:C:3967:GLU:HG3	1.59	0.84
1:D:3889:GLN:HG3	1:D:3967:GLU:HG3	1.59	0.84
1:A:2607:LEU:HD22	1:A:2643:LEU:HD11	1.60	0.84
1:A:971:ASP:HB3	1:A:974:HIS:HD1	1.40	0.83
1:D:1067:SER:O	1:D:1071:ARG:HB2	1.76	0.83
1:A:179:TYR:OH	1:D:2359:ARG:NH1	2.10	0.83
1:D:1089:TYR:HD2	1:D:1152:MET:HE1	1.44	0.83
1:D:2607:LEU:HD22	1:D:2643:LEU:HD11	1.60	0.83
1:B:1089:TYR:HD2	1:B:1152:MET:HE1	1.44	0.83
1:A:1089:TYR:HD2	1:A:1152:MET:HE1	1.44	0.83
1:C:1089:TYR:HD2	1:C:1152:MET:HE1	1.44	0.83
1:C:404:ILE:HG12	1:C:483:MET:HE1	1.61	0.83
1:B:4961:CYS:SG	1:B:4978:HIS:CE1	2.72	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:404:ILE:HG12	1:D:483:MET:HE1	1.61	0.82
1:A:3889:GLN:HG3	1:A:3967:GLU:HG3	1.59	0.82
1:B:3889:GLN:HG3	1:B:3967:GLU:HG3	1.59	0.82
1:A:4961:CYS:SG	1:A:4978:HIS:CE1	2.72	0.82
1:B:2607:LEU:HD22	1:B:2643:LEU:HD11	1.60	0.82
1:D:1601:MET:HE3	1:D:1602:PRO:HD2	1.61	0.82
1:C:2615:ARG:HB2	1:C:2618:MET:HE3	1.61	0.82
1:B:2223:ILE:HG21	1:B:2267:MET:HB3	1.62	0.82
1:B:2615:ARG:HB2	1:B:2618:MET:HE3	1.61	0.82
1:D:2615:ARG:HB2	1:D:2618:MET:HE3	1.61	0.82
1:C:4961:CYS:SG	1:C:4978:HIS:CE1	2.72	0.82
1:A:404:ILE:HG12	1:A:483:MET:HE1	1.61	0.81
1:A:2615:ARG:HB2	1:A:2618:MET:HE3	1.61	0.81
1:D:4961:CYS:SG	1:D:4978:HIS:CE1	2.72	0.81
1:C:2223:ILE:HG21	1:C:2267:MET:HB3	1.62	0.81
1:B:404:ILE:HG12	1:B:483:MET:HE1	1.61	0.81
1:B:1601:MET:HE3	1:B:1602:PRO:HD2	1.61	0.81
1:C:1089:TYR:CD2	1:C:1152:MET:HE1	2.16	0.81
1:C:3842:LEU:HB2	1:C:3929:SER:HB2	1.63	0.81
1:B:1668:ARG:HE	1:B:1671:ARG:HH21	1.28	0.81
1:D:1089:TYR:CD2	1:D:1152:MET:HE1	2.16	0.81
1:C:1601:MET:HE3	1:C:1602:PRO:HD2	1.61	0.81
1:D:2223:ILE:HG21	1:D:2267:MET:HB3	1.62	0.81
1:A:1089:TYR:CD2	1:A:1152:MET:HE1	2.16	0.81
1:A:3842:LEU:HB2	1:A:3929:SER:HB2	1.63	0.81
1:A:2223:ILE:HG21	1:A:2267:MET:HB3	1.62	0.80
1:A:2772:GLN:HG3	1:B:1506:GLN:NE2	1.97	0.80
1:B:1089:TYR:CD2	1:B:1152:MET:HE1	2.16	0.80
1:B:844:ARG:HD2	1:B:1196:PRO:HB2	1.63	0.80
1:B:1686:CYS:SG	1:B:1691:GLN:NE2	2.54	0.80
1:D:4904:PRO:HB3	1:D:4913:ARG:HD3	1.63	0.80
1:C:4904:PRO:HB3	1:C:4913:ARG:HD3	1.63	0.80
1:C:1686:CYS:SG	1:C:1691:GLN:NE2	2.54	0.80
1:D:844:ARG:HD2	1:D:1196:PRO:HB2	1.63	0.80
1:A:1601:MET:HE3	1:A:1602:PRO:HD2	1.61	0.79
1:B:452:PHE:O	1:B:531:ARG:NH2	2.15	0.79
1:A:1668:ARG:HE	1:A:1671:ARG:HH21	1.28	0.79
1:A:1686:CYS:SG	1:A:1691:GLN:NE2	2.54	0.79
1:D:3842:LEU:HB2	1:D:3929:SER:HB2	1.63	0.79
1:A:4904:PRO:HB3	1:A:4913:ARG:HD3	1.63	0.79
1:A:4958:CYS:SG	1:A:4961:CYS:HB2	2.23	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:ARG:HH21	1:D:328:LYS:HB3	1.48	0.79
1:D:4958:CYS:SG	1:D:4961:CYS:HB2	2.23	0.79
1:B:3842:LEU:HB2	1:B:3929:SER:HB2	1.63	0.79
1:A:275:ARG:HH21	1:A:328:LYS:HB3	1.48	0.79
1:A:985:VAL:HG12	1:A:1039:LEU:HD22	1.65	0.79
1:D:179:TYR:OH	1:C:2359:ARG:NH1	2.14	0.79
1:B:985:VAL:HG12	1:B:1039:LEU:HD22	1.65	0.79
1:B:4958:CYS:SG	1:B:4961:CYS:HB2	2.23	0.79
1:A:3479:ALA:HB1	1:B:1140:GLY:HA2	1.63	0.79
1:D:452:PHE:O	1:D:531:ARG:NH2	2.15	0.79
1:A:844:ARG:HD2	1:A:1196:PRO:HB2	1.63	0.79
1:A:452:PHE:O	1:A:531:ARG:NH2	2.15	0.78
1:B:989:ALA:HB2	1:B:1039:LEU:HD21	1.65	0.78
1:C:632:LEU:HD23	1:C:1666:THR:HG23	1.65	0.78
1:B:4904:PRO:HB3	1:B:4913:ARG:HD3	1.63	0.78
1:D:989:ALA:HB2	1:D:1039:LEU:HD21	1.65	0.78
1:A:2591:ARG:HH12	1:A:2640:PRO:HG2	1.48	0.78
1:D:985:VAL:HG12	1:D:1039:LEU:HD22	1.65	0.78
1:C:452:PHE:O	1:C:531:ARG:NH2	2.15	0.78
1:C:1668:ARG:HE	1:C:1671:ARG:HH21	1.28	0.78
1:A:632:LEU:HD23	1:A:1666:THR:HG23	1.65	0.78
1:B:2591:ARG:HH12	1:B:2640:PRO:HG2	1.48	0.78
1:D:632:LEU:HD23	1:D:1666:THR:HG23	1.65	0.78
1:D:2591:ARG:HH12	1:D:2640:PRO:HG2	1.48	0.78
1:D:1668:ARG:HE	1:D:1671:ARG:HH21	1.29	0.78
1:D:1686:CYS:SG	1:D:1691:GLN:NE2	2.54	0.78
1:C:989:ALA:HB2	1:C:1039:LEU:HD21	1.65	0.78
1:D:1581:LEU:HD12	1:D:1584:ARG:HE	1.49	0.78
1:C:844:ARG:HD2	1:C:1196:PRO:HB2	1.63	0.78
1:C:1581:LEU:HD12	1:C:1584:ARG:HE	1.48	0.78
1:B:275:ARG:HH21	1:B:328:LYS:HB3	1.48	0.78
1:A:989:ALA:HB2	1:A:1039:LEU:HD21	1.65	0.78
1:C:985:VAL:HG12	1:C:1039:LEU:HD22	1.65	0.78
1:C:2591:ARG:HH12	1:C:2640:PRO:HG2	1.49	0.78
1:A:1581:LEU:HD12	1:A:1584:ARG:HE	1.49	0.77
1:B:2823:ILE:HD11	1:B:2935:TYR:HB3	1.66	0.77
1:C:4958:CYS:SG	1:C:4961:CYS:HB2	2.23	0.77
1:D:2823:ILE:HD11	1:D:2935:TYR:HB3	1.66	0.77
1:B:632:LEU:HD23	1:B:1666:THR:HG23	1.65	0.77
1:C:4242:ILE:HG22	1:C:4246:GLN:HE22	1.50	0.77
1:A:622:THR:HG23	1:A:626:LEU:HD12	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:622:THR:HG23	1:B:626:LEU:HD12	1.67	0.77
1:C:2823:ILE:HD11	1:C:2935:TYR:HB3	1.66	0.77
1:B:2522:LEU:HA	1:B:2526:PHE:HB2	1.66	0.77
1:D:622:THR:HG23	1:D:626:LEU:HD12	1.67	0.77
1:D:2522:LEU:HA	1:D:2526:PHE:HB2	1.66	0.76
1:C:2522:LEU:HA	1:C:2526:PHE:HB2	1.66	0.76
1:B:3018:LEU:HB3	1:B:3025:LEU:HD12	1.67	0.76
1:C:622:THR:HG23	1:C:626:LEU:HD12	1.67	0.76
1:C:772:ASN:H	1:C:1470:ARG:HH22	1.32	0.76
1:A:4242:ILE:HG22	1:A:4246:GLN:HE22	1.50	0.76
1:B:663:TYR:HE1	1:B:745:SER:HB2	1.51	0.76
1:A:772:ASN:H	1:A:1470:ARG:HH22	1.32	0.76
1:A:2522:LEU:HA	1:A:2526:PHE:HB2	1.66	0.76
1:B:1581:LEU:HD12	1:B:1584:ARG:HE	1.49	0.76
1:C:275:ARG:HH21	1:C:328:LYS:HB3	1.48	0.76
1:C:663:TYR:HE1	1:C:745:SER:HB2	1.51	0.76
1:A:2823:ILE:HD11	1:A:2935:TYR:HB3	1.66	0.76
1:C:2752:ASP:OD1	1:C:2806:ARG:NH1	2.19	0.76
1:C:3018:LEU:HB3	1:C:3025:LEU:HD12	1.67	0.76
1:A:2752:ASP:OD1	1:A:2806:ARG:NH1	2.19	0.76
2:G:53:GLN:HE21	2:G:57:ARG:HG3	1.51	0.76
1:D:2534:ALA:HA	1:D:2588:ARG:HH12	1.50	0.76
1:A:663:TYR:HE1	1:A:745:SER:HB2	1.51	0.76
2:H:53:GLN:HE21	2:H:57:ARG:HG3	1.51	0.76
1:D:663:TYR:HE1	1:D:745:SER:HB2	1.51	0.76
1:D:772:ASN:H	1:D:1470:ARG:HH22	1.32	0.76
1:A:3409:TYR:HE2	1:A:3510:ILE:HG12	1.51	0.75
1:B:2534:ALA:HA	1:B:2588:ARG:HH12	1.50	0.75
1:B:2752:ASP:OD1	1:B:2806:ARG:NH1	2.19	0.75
1:C:1683:HIS:NE2	1:C:1798:LEU:O	2.17	0.75
1:D:4242:ILE:HG22	1:D:4246:GLN:HE22	1.50	0.75
1:A:4204:GLN:HB3	1:A:4245:MET:HG2	1.69	0.75
1:D:4204:GLN:HB3	1:D:4245:MET:HG2	1.69	0.75
1:B:772:ASN:H	1:B:1470:ARG:HH22	1.32	0.75
1:B:4242:ILE:HG22	1:B:4246:GLN:HE22	1.50	0.75
1:D:2752:ASP:OD1	1:D:2806:ARG:NH1	2.19	0.75
1:D:3409:TYR:HE2	1:D:3510:ILE:HG12	1.51	0.75
1:B:2271:THR:HG23	1:B:2274:ASP:H	1.52	0.75
1:C:2271:THR:HG23	1:C:2274:ASP:H	1.52	0.75
1:A:3018:LEU:HB3	1:A:3025:LEU:HD12	1.67	0.75
2:F:53:GLN:HE21	2:F:57:ARG:HG3	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2534:ALA:HA	1:A:2588:ARG:HH12	1.50	0.75
2:E:53:GLN:HE21	2:E:57:ARG:HG3	1.51	0.75
1:C:3114:LYS:HD2	1:C:3116:SER:H	1.52	0.74
1:A:590:LEU:HD22	1:A:631:LEU:HD21	1.69	0.74
1:B:3114:LYS:HD2	1:B:3116:SER:H	1.52	0.74
1:D:3018:LEU:HB3	1:D:3025:LEU:HD12	1.67	0.74
1:C:2534:ALA:HA	1:C:2588:ARG:HH12	1.50	0.74
1:A:2271:THR:HG23	1:A:2274:ASP:H	1.52	0.74
1:B:4204:GLN:HB3	1:B:4245:MET:HG2	1.69	0.74
1:C:590:LEU:HD22	1:C:631:LEU:HD21	1.69	0.74
1:A:1671:ARG:NH1	1:A:1710:GLY:O	2.21	0.74
1:B:590:LEU:HD22	1:B:631:LEU:HD21	1.69	0.74
1:D:590:LEU:HD22	1:D:631:LEU:HD21	1.69	0.74
1:D:1671:ARG:NH1	1:D:1710:GLY:O	2.21	0.74
1:D:2321:ILE:HD11	1:D:2418:LEU:HD13	1.69	0.74
1:C:3409:TYR:HE2	1:C:3510:ILE:HG12	1.51	0.74
1:B:3409:TYR:HE2	1:B:3510:ILE:HG12	1.51	0.74
1:C:2321:ILE:HD11	1:C:2418:LEU:HD13	1.69	0.74
1:C:3257:ALA:O	1:C:3321:ARG:NH1	2.21	0.74
1:C:4204:GLN:HB3	1:C:4245:MET:HG2	1.68	0.74
1:B:1778:SER:HB2	1:B:1798:LEU:HB2	1.69	0.74
1:D:3114:LYS:HD2	1:D:3116:SER:H	1.52	0.74
1:C:1778:SER:HB2	1:C:1798:LEU:HB2	1.69	0.74
1:B:4892:ARG:HH22	1:C:4898:GLY:HA3	1.51	0.74
1:C:1671:ARG:NH1	1:C:1710:GLY:O	2.21	0.73
1:D:3946:GLN:OE1	1:D:3949:ARG:NH2	2.21	0.73
1:D:1778:SER:HB2	1:D:1798:LEU:HB2	1.69	0.73
1:A:3522:LEU:HD13	1:B:1220:GLN:O	1.88	0.73
1:A:3539:ARG:NH1	1:A:3549:VAL:HA	2.04	0.73
1:B:2247:GLN:NE2	1:B:2278:ALA:O	2.21	0.73
1:B:3539:ARG:NH1	1:B:3549:VAL:HA	2.04	0.73
1:D:3257:ALA:O	1:D:3321:ARG:NH1	2.21	0.73
1:D:213:TYR:H	1:D:341:TYR:H	1.37	0.73
1:D:3354:LEU:HB2	1:D:3415:TYR:HE2	1.53	0.73
1:D:3577:ARG:HH12	1:D:3584:GLU:HB3	1.54	0.73
1:C:213:TYR:H	1:C:341:TYR:H	1.37	0.73
1:D:3147:ILE:HD12	1:D:3152:PHE:HB2	1.71	0.73
1:B:2095:GLN:NE2	1:B:2127:GLN:O	2.17	0.73
1:D:221:ARG:NH1	1:D:253:CYS:O	2.22	0.73
1:C:3577:ARG:HH12	1:C:3584:GLU:HB3	1.54	0.73
1:A:221:ARG:NH1	1:A:253:CYS:O	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3147:ILE:HD12	1:A:3152:PHE:HB2	1.71	0.73
1:D:1501:VAL:HB	1:D:1508:ARG:HH21	1.54	0.73
1:C:3539:ARG:NH1	1:C:3549:VAL:HA	2.04	0.73
1:A:2247:GLN:NE2	1:A:2278:ALA:O	2.21	0.73
1:B:2321:ILE:HD11	1:B:2418:LEU:HD13	1.69	0.73
1:B:3147:ILE:HD12	1:B:3152:PHE:HB2	1.71	0.73
1:D:2271:THR:HG23	1:D:2274:ASP:H	1.52	0.73
1:C:3147:ILE:HD12	1:C:3152:PHE:HB2	1.71	0.73
1:B:221:ARG:NH1	1:B:253:CYS:O	2.22	0.72
1:B:3257:ALA:O	1:B:3321:ARG:NH1	2.21	0.72
1:B:3354:LEU:HB2	1:B:3415:TYR:HE2	1.53	0.72
1:C:3354:LEU:HB2	1:C:3415:TYR:HE2	1.53	0.72
1:A:1699:GLU:OE1	1:A:1813:ARG:NH2	2.22	0.72
1:A:1778:SER:HB2	1:A:1798:LEU:HB2	1.69	0.72
1:A:2321:ILE:HD11	1:A:2418:LEU:HD13	1.69	0.72
1:B:2133:GLU:HG2	1:B:2136:ARG:HH21	1.54	0.72
1:B:2265:LEU:HB2	1:B:2330:ARG:HH11	1.54	0.72
1:D:3539:ARG:NH1	1:D:3549:VAL:HA	2.04	0.72
1:C:4189:ARG:HH11	1:C:4189:ARG:HB2	1.54	0.72
1:A:3354:LEU:HB2	1:A:3415:TYR:HE2	1.53	0.72
1:C:3354:LEU:HA	1:C:3358:PHE:HD2	1.54	0.72
1:B:213:TYR:H	1:B:341:TYR:H	1.37	0.72
1:D:2247:GLN:NE2	1:D:2278:ALA:O	2.22	0.72
1:C:221:ARG:NH1	1:C:253:CYS:O	2.22	0.72
1:A:213:TYR:H	1:A:341:TYR:H	1.37	0.72
1:A:2265:LEU:HB2	1:A:2330:ARG:HH11	1.54	0.72
1:A:4189:ARG:HB2	1:A:4189:ARG:HH11	1.54	0.72
1:B:1671:ARG:NH1	1:B:1710:GLY:O	2.21	0.72
1:C:3308:THR:OG1	1:C:3310:ASP:OD1	2.08	0.72
1:A:4226:GLY:O	1:A:4230:LYS:N	2.23	0.72
1:B:1699:GLU:OE1	1:B:1813:ARG:NH2	2.22	0.72
1:B:3719:ASP:H	1:B:3793:MET:HE1	1.55	0.72
1:D:3354:LEU:HA	1:D:3358:PHE:HD2	1.54	0.72
1:D:3989:VAL:HG13	1:D:4023:MET:HE3	1.72	0.72
1:A:1501:VAL:HB	1:A:1508:ARG:HH21	1.54	0.72
1:A:3114:LYS:HD2	1:A:3116:SER:H	1.52	0.72
1:D:1067:SER:O	1:D:1071:ARG:CB	2.38	0.72
1:C:1130:GLN:HG2	1:C:1138:PRO:HA	1.72	0.72
1:B:1501:VAL:HB	1:B:1508:ARG:HH21	1.54	0.72
1:D:1130:GLN:HG2	1:D:1138:PRO:HA	1.72	0.72
1:D:2133:GLU:HG2	1:D:2136:ARG:HH21	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:GLY:HA3	1:C:436:LEU:HD21	1.71	0.72
1:C:1699:GLU:OE1	1:C:1813:ARG:NH2	2.22	0.72
1:A:417:GLY:HA3	1:A:436:LEU:HD21	1.71	0.72
1:A:1259:ARG:NH1	1:A:1591:CYS:SG	2.63	0.72
1:C:221:ARG:HE	1:C:259:LEU:HD23	1.55	0.72
1:A:1130:GLN:HG2	1:A:1138:PRO:HA	1.72	0.72
1:C:1205:GLY:HA2	1:C:1211:LEU:HD11	1.72	0.72
1:C:3989:VAL:HG13	1:C:4023:MET:HE3	1.72	0.72
1:A:3257:ALA:O	1:A:3321:ARG:NH1	2.21	0.71
1:B:3373:VAL:HG11	1:B:3444:TYR:HB3	1.72	0.71
1:B:4189:ARG:HB2	1:B:4189:ARG:HH11	1.54	0.71
1:B:4226:GLY:O	1:B:4230:LYS:N	2.23	0.71
1:D:1738:LEU:HB2	1:D:2146:PRO:HD3	1.72	0.71
1:C:1125:ASN:HD22	1:C:1128:ARG:HG2	1.55	0.71
1:C:1152:MET:HB2	1:C:1161:ILE:HB	1.72	0.71
1:C:2133:GLU:HG2	1:C:2136:ARG:HH21	1.54	0.71
1:A:1067:SER:O	1:A:1071:ARG:CB	2.38	0.71
1:A:3577:ARG:HH12	1:A:3584:GLU:HB3	1.54	0.71
1:B:4711:PHE:HB3	1:B:4712:PRO:HD3	1.72	0.71
1:D:1699:GLU:OE1	1:D:1813:ARG:NH2	2.22	0.71
1:D:4711:PHE:HB3	1:D:4712:PRO:HD3	1.72	0.71
1:C:1738:LEU:HB2	1:C:2146:PRO:HD3	1.72	0.71
1:C:4711:PHE:HB3	1:C:4712:PRO:HD3	1.72	0.71
1:A:3513:THR:HG23	1:A:3516:LYS:HZ3	1.55	0.71
1:B:1067:SER:O	1:B:1071:ARG:CB	2.38	0.71
1:B:1125:ASN:HD22	1:B:1128:ARG:HG2	1.55	0.71
1:B:1130:GLN:HG2	1:B:1138:PRO:HA	1.72	0.71
1:D:417:GLY:HA3	1:D:436:LEU:HD21	1.71	0.71
1:D:2095:GLN:NE2	1:D:2127:GLN:O	2.17	0.71
1:D:3308:THR:OG1	1:D:3310:ASP:OD1	2.08	0.71
1:B:3577:ARG:HH12	1:B:3584:GLU:HB3	1.54	0.71
1:C:2265:LEU:HB2	1:C:2330:ARG:HH11	1.54	0.71
1:B:2209:GLU:O	1:B:2213:ASN:ND2	2.24	0.71
1:B:3308:THR:OG1	1:B:3310:ASP:OD1	2.08	0.71
1:A:3354:LEU:HA	1:A:3358:PHE:HD2	1.54	0.71
1:A:4711:PHE:HB3	1:A:4712:PRO:HD3	1.72	0.71
1:B:1259:ARG:NH1	1:B:1591:CYS:SG	2.63	0.71
1:B:3417:ASP:HA	1:B:3420:ARG:HE	1.56	0.71
1:D:1259:ARG:NH1	1:D:1591:CYS:SG	2.63	0.71
1:D:2265:LEU:HB2	1:D:2330:ARG:HH11	1.54	0.71
1:C:2209:GLU:O	1:C:2213:ASN:ND2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3308:THR:OG1	1:A:3310:ASP:OD1	2.08	0.71
1:B:758:ARG:HG2	1:B:763:PRO:HA	1.72	0.71
1:B:3354:LEU:HA	1:B:3358:PHE:HD2	1.54	0.71
1:B:3513:THR:HG23	1:B:3516:LYS:HZ3	1.54	0.71
1:D:1125:ASN:HD22	1:D:1128:ARG:HG2	1.55	0.71
1:D:1683:HIS:NE2	1:D:1798:LEU:O	2.17	0.71
1:D:2209:GLU:O	1:D:2213:ASN:ND2	2.24	0.71
1:C:1067:SER:O	1:C:1071:ARG:CB	2.38	0.71
1:A:530:ILE:HA	1:A:536:ASN:HD22	1.56	0.71
1:A:758:ARG:HG2	1:A:763:PRO:HA	1.72	0.71
1:C:530:ILE:HA	1:C:536:ASN:HD22	1.56	0.71
1:C:2827:ARG:HB2	1:C:2934:GLY:HA3	1.73	0.71
1:C:3373:VAL:HG11	1:C:3444:TYR:HB3	1.73	0.71
1:A:3417:ASP:HA	1:A:3420:ARG:HE	1.56	0.71
1:B:1205:GLY:HA2	1:B:1211:LEU:HD11	1.72	0.71
1:B:2827:ARG:HB2	1:B:2934:GLY:HA3	1.73	0.71
1:D:530:ILE:HA	1:D:536:ASN:HD22	1.56	0.71
1:B:417:GLY:HA3	1:B:436:LEU:HD21	1.71	0.71
1:D:155:LYS:NZ	1:C:225:GLY:HA2	2.06	0.71
1:A:1125:ASN:HD22	1:A:1128:ARG:HG2	1.55	0.70
1:A:1205:GLY:HA2	1:A:1211:LEU:HD11	1.72	0.70
1:A:2133:GLU:HG2	1:A:2136:ARG:HH21	1.54	0.70
1:C:1259:ARG:NH1	1:C:1591:CYS:SG	2.63	0.70
1:C:3946:GLN:OE1	1:C:3949:ARG:NH2	2.21	0.70
1:C:4226:GLY:O	1:C:4230:LYS:N	2.23	0.70
1:A:2579:VAL:O	1:A:2582:MET:HB2	1.91	0.70
1:D:758:ARG:HG2	1:D:763:PRO:HA	1.72	0.70
1:A:3946:GLN:OE1	1:A:3949:ARG:NH2	2.21	0.70
1:A:3989:VAL:HG13	1:A:4023:MET:HE3	1.72	0.70
1:B:3989:VAL:HG13	1:B:4023:MET:HE3	1.72	0.70
1:D:221:ARG:HE	1:D:259:LEU:HD23	1.55	0.70
1:C:3513:THR:HG23	1:C:3516:LYS:HZ3	1.55	0.70
1:A:3373:VAL:HG11	1:A:3444:TYR:HB3	1.72	0.70
1:A:3719:ASP:H	1:A:3793:MET:HE1	1.55	0.70
1:A:3959:LYS:O	1:A:3963:ASN:ND2	2.22	0.70
1:B:530:ILE:HA	1:B:536:ASN:HD22	1.56	0.70
1:D:3417:ASP:HA	1:D:3420:ARG:HE	1.56	0.70
1:D:3513:THR:HG23	1:D:3516:LYS:HZ3	1.55	0.70
1:C:2247:GLN:NE2	1:C:2278:ALA:O	2.21	0.70
1:A:1573:MET:SD	1:A:1574:PRO:HD2	2.32	0.70
1:A:2209:GLU:O	1:A:2213:ASN:ND2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4226:GLY:O	1:D:4230:LYS:N	2.23	0.70
1:C:645:ARG:HE	1:C:826:ILE:HG13	1.57	0.70
1:C:2760:GLU:HA	1:C:2802:LYS:HZ1	1.56	0.70
1:A:221:ARG:HE	1:A:259:LEU:HD23	1.55	0.70
1:B:1152:MET:HB2	1:B:1161:ILE:HB	1.72	0.70
1:B:2579:VAL:O	1:B:2582:MET:HB2	1.91	0.70
1:B:3981:ALA:O	1:B:3986:TRP:NE1	2.22	0.70
1:C:2612[A]:ARG:HB3	1:C:2612[A]:ARG:HH11	1.57	0.70
1:C:3634:ALA:HA	1:C:3637:ARG:HB3	1.74	0.70
1:A:3634:ALA:HA	1:A:3637:ARG:HB3	1.74	0.70
1:B:1857:GLU:HA	1:B:1860:LYS:HE2	1.74	0.70
1:D:1727:ARG:NH2	1:D:1773:PRO:O	2.25	0.70
1:D:2579:VAL:O	1:D:2582:MET:HB2	1.91	0.70
1:D:4189:ARG:HB2	1:D:4189:ARG:HH11	1.54	0.70
1:C:1857:GLU:HA	1:C:1860:LYS:HE2	1.74	0.70
1:A:1152:MET:HB2	1:A:1161:ILE:HB	1.72	0.70
1:A:1738:LEU:HB2	1:A:2146:PRO:HD3	1.73	0.70
1:B:1638:ALA:HB1	1:B:1647:CYS:HB2	1.74	0.70
1:B:2612[A]:ARG:HB3	1:B:2612[A]:ARG:HH11	1.57	0.70
1:B:4137:ARG:NH2	1:B:4199:GLU:OE2	2.25	0.70
1:D:1152:MET:HB2	1:D:1161:ILE:HB	1.72	0.70
1:D:1573:MET:SD	1:D:1574:PRO:HD2	2.32	0.70
1:D:3719:ASP:H	1:D:3793:MET:HE1	1.55	0.70
1:C:1501:VAL:HB	1:C:1508:ARG:HH21	1.54	0.70
1:B:1646:ARG:HH21	1:B:1648:MET:HE1	1.57	0.70
1:B:1738:LEU:HB2	1:B:2146:PRO:HD3	1.72	0.70
1:D:1271:ARG:NH1	1:D:1272:LEU:O	2.25	0.70
1:D:2103:VAL:HG12	1:D:2107:GLN:HE22	1.57	0.70
1:A:1271:ARG:NH1	1:A:1272:LEU:O	2.25	0.70
1:D:3959:LYS:O	1:D:3963:ASN:ND2	2.22	0.70
1:C:758:ARG:HG2	1:C:763:PRO:HA	1.72	0.70
1:C:1271:ARG:NH1	1:C:1272:LEU:O	2.25	0.70
1:C:2103:VAL:HG12	1:C:2107:GLN:HE22	1.57	0.70
1:A:213:TYR:CD2	1:A:337:PRO:HB2	2.27	0.69
1:A:1646:ARG:HH21	1:A:1648:MET:HE1	1.57	0.69
1:A:2827:ARG:HB2	1:A:2934:GLY:HA3	1.73	0.69
2:H:30:LEU:HD12	2:H:31:GLU:H	1.57	0.69
1:B:221:ARG:HE	1:B:259:LEU:HD23	1.55	0.69
1:B:1271:ARG:NH1	1:B:1272:LEU:O	2.25	0.69
1:B:1727:ARG:NH2	1:B:1773:PRO:O	2.25	0.69
1:C:3417:ASP:HA	1:C:3420:ARG:HE	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2095:GLN:NE2	1:A:2127:GLN:O	2.17	0.69
1:B:1730:MET:O	1:B:1772:ARG:NH2	2.25	0.69
1:B:2103:VAL:HG12	1:B:2107:GLN:HE22	1.57	0.69
1:B:3634:ALA:HA	1:B:3637:ARG:HB3	1.74	0.69
1:D:2827:ARG:HB2	1:D:2934:GLY:HA3	1.73	0.69
1:A:1730:MET:O	1:A:1772:ARG:NH2	2.25	0.69
1:A:2103:VAL:HG12	1:A:2107:GLN:HE22	1.57	0.69
1:C:213:TYR:CD2	1:C:337:PRO:HB2	2.28	0.69
1:C:1646:ARG:HH21	1:C:1648:MET:HE1	1.57	0.69
1:C:4064:MET:HE1	1:C:4110:PHE:HE2	1.57	0.69
1:A:1436:SER:HB3	1:A:1565:GLU:HB2	1.75	0.69
1:B:537:CYS:HB3	1:B:571:SER:HB2	1.75	0.69
1:D:1078:GLU:OE2	1:D:1607:ARG:NH2	2.26	0.69
1:A:537:CYS:HB3	1:A:571:SER:HB2	1.75	0.69
1:A:4064:MET:HE1	1:A:4110:PHE:HE2	1.58	0.69
1:D:1205:GLY:HA2	1:D:1211:LEU:HD11	1.72	0.69
1:D:3373:VAL:HG11	1:D:3444:TYR:HB3	1.72	0.69
1:D:3634:ALA:HA	1:D:3637:ARG:HB3	1.74	0.69
1:D:4961:CYS:SG	1:D:4978:HIS:HE1	2.16	0.69
1:C:1573:MET:SD	1:C:1574:PRO:HD2	2.32	0.69
1:C:3354:LEU:HD12	1:C:3415:TYR:HD2	1.58	0.69
2:E:30:LEU:HD12	2:E:31:GLU:H	1.58	0.69
1:D:213:TYR:CD2	1:D:337:PRO:HB2	2.27	0.69
1:D:1730:MET:O	1:D:1772:ARG:NH2	2.25	0.69
1:D:4064:MET:HE1	1:D:4110:PHE:HE2	1.58	0.69
1:C:3719:ASP:H	1:C:3793:MET:HE1	1.55	0.69
1:C:3959:LYS:O	1:C:3963:ASN:ND2	2.22	0.69
1:C:4137:ARG:NH2	1:C:4199:GLU:OE2	2.25	0.69
1:A:1727:ARG:NH2	1:A:1773:PRO:O	2.25	0.69
1:A:2612[A]:ARG:HB3	1:A:2612[A]:ARG:HH11	1.57	0.69
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.32	0.69
1:D:3354:LEU:HD12	1:D:3415:TYR:HD2	1.58	0.69
1:A:645:ARG:HE	1:A:826:ILE:HG13	1.57	0.69
2:G:30:LEU:HD12	2:G:31:GLU:H	1.57	0.69
1:B:213:TYR:CD2	1:B:337:PRO:HB2	2.28	0.69
1:B:1078:GLU:OE2	1:B:1607:ARG:NH2	2.26	0.69
1:B:1100:MET:N	1:B:1125:ASN:OD1	2.26	0.69
1:B:3143:LEU:HD13	1:B:3146:HIS:HE1	1.58	0.69
1:D:645:ARG:HE	1:D:826:ILE:HG13	1.57	0.69
1:D:1100:MET:N	1:D:1125:ASN:OD1	2.26	0.69
1:D:2633:LEU:HD22	1:D:2641:LEU:HD11	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1078:GLU:OE2	1:C:1607:ARG:NH2	2.26	0.69
1:C:1638:ALA:HB1	1:C:1647:CYS:HB2	1.74	0.69
1:A:1638:ALA:HB1	1:A:1647:CYS:HB2	1.74	0.69
1:B:155:LYS:HG3	1:B:156:GLN:N	2.08	0.69
1:B:1453:VAL:HG12	1:B:1492:CYS:HB2	1.74	0.69
1:D:537:CYS:HB3	1:D:571:SER:HB2	1.75	0.69
1:D:4137:ARG:NH2	1:D:4199:GLU:OE2	2.25	0.69
1:C:1730:MET:O	1:C:1772:ARG:NH2	2.25	0.69
1:C:3769:ARG:O	1:C:3773:ARG:NH1	2.25	0.69
1:A:155:LYS:HG3	1:A:156:GLN:N	2.08	0.69
2:F:23:VAL:HG22	2:F:47:LYS:HG2	1.75	0.69
1:D:3981:ALA:O	1:D:3986:TRP:NE1	2.22	0.69
1:C:2579:VAL:O	1:C:2582:MET:HB2	1.91	0.69
1:A:1683:HIS:NE2	1:A:1798:LEU:O	2.17	0.68
1:A:2107:GLN:O	1:A:3694:LYS:NZ	2.26	0.68
1:A:3981:ALA:O	1:A:3986:TRP:NE1	2.22	0.68
1:A:4137:ARG:NH2	1:A:4199:GLU:OE2	2.25	0.68
1:B:2633:LEU:HD22	1:B:2641:LEU:HD11	1.75	0.68
1:D:1733:GLU:OE1	1:D:2140:ARG:NH2	2.26	0.68
1:D:2612[A]:ARG:HB3	1:D:2612[A]:ARG:HH11	1.57	0.68
1:C:2633:LEU:HD22	1:C:2641:LEU:HD11	1.75	0.68
1:A:1857:GLU:HA	1:A:1860:LYS:HE2	1.74	0.68
1:A:2633:LEU:HD22	1:A:2641:LEU:HD11	1.75	0.68
1:D:1453:VAL:HG12	1:D:1492:CYS:HB2	1.74	0.68
1:C:2107:GLN:O	1:C:3694:LYS:NZ	2.26	0.68
1:C:4961:CYS:SG	1:C:4978:HIS:HE1	2.16	0.68
1:B:3141:THR:HG23	1:B:3145:GLN:HE22	1.59	0.68
1:B:4580:TYR:OH	1:B:4806:ASN:ND2	2.26	0.68
1:D:1646:ARG:HH21	1:D:1648:MET:HE1	1.57	0.68
1:D:3465:ASN:HA	1:D:3502:ARG:HG2	1.76	0.68
1:D:3769:ARG:O	1:D:3773:ARG:NH1	2.25	0.68
1:B:3354:LEU:HD12	1:B:3415:TYR:HD2	1.58	0.68
1:B:3769:ARG:O	1:B:3773:ARG:NH1	2.25	0.68
1:B:4064:MET:HE1	1:B:4110:PHE:HE2	1.58	0.68
1:D:4580:TYR:OH	1:D:4806:ASN:ND2	2.26	0.68
1:C:1436:SER:HB3	1:C:1565:GLU:HB2	1.75	0.68
1:A:1453:VAL:HG12	1:A:1492:CYS:HB2	1.74	0.68
1:B:3465:ASN:HA	1:B:3502:ARG:HG2	1.76	0.68
1:D:2107:GLN:O	1:D:3694:LYS:NZ	2.26	0.68
1:C:537:CYS:HB3	1:C:571:SER:HB2	1.75	0.68
1:C:1443:GLN:NE2	1:C:1560:ASN:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:GLU:OE2	1:A:1607:ARG:NH2	2.26	0.68
1:B:1436:SER:HB3	1:B:1565:GLU:HB2	1.75	0.68
1:B:2107:GLN:O	1:B:3694:LYS:NZ	2.26	0.68
1:D:1857:GLU:HA	1:D:1860:LYS:HE2	1.74	0.68
1:A:1733:GLU:OE1	1:A:2140:ARG:NH2	2.26	0.68
1:A:4580:TYR:OH	1:A:4806:ASN:ND2	2.26	0.68
2:E:23:VAL:HG22	2:E:47:LYS:HG2	1.75	0.68
1:B:2470:ILE:HG22	1:B:2525:GLY:HA3	1.76	0.68
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.21	0.68
1:D:1638:ALA:HB1	1:D:1647:CYS:HB2	1.74	0.68
1:C:1733:GLU:OE1	1:C:2140:ARG:NH2	2.26	0.68
1:C:3143:LEU:HD13	1:C:3146:HIS:HE1	1.58	0.68
1:A:3354:LEU:HD12	1:A:3415:TYR:HD2	1.58	0.68
1:A:4961:CYS:SG	1:A:4978:HIS:HE1	2.15	0.68
1:B:22:LEU:HD21	1:B:37:LEU:HB3	1.76	0.68
1:B:915:GLU:O	1:B:919:ASN:N	2.26	0.68
1:B:1733:GLU:OE1	1:B:2140:ARG:NH2	2.26	0.68
1:D:915:GLU:O	1:D:919:ASN:N	2.27	0.68
1:D:1998:PHE:O	1:D:2005:GLN:NE2	2.27	0.68
1:C:22:LEU:HD21	1:C:37:LEU:HB3	1.76	0.68
1:C:4580:TYR:OH	1:C:4806:ASN:ND2	2.26	0.68
1:A:1998:PHE:O	1:A:2005:GLN:NE2	2.27	0.68
1:C:1100:MET:N	1:C:1125:ASN:OD1	2.26	0.68
1:B:1443:GLN:NE2	1:B:1560:ASN:O	2.27	0.68
2:H:23:VAL:HG22	2:H:47:LYS:HG2	1.75	0.67
1:B:645:ARG:HE	1:B:826:ILE:HG13	1.57	0.67
1:A:64:ILE:O	1:A:111:HIS:NE2	2.27	0.67
1:A:1100:MET:N	1:A:1125:ASN:OD1	2.26	0.67
1:A:3143:LEU:HD13	1:A:3146:HIS:HE1	1.58	0.67
1:A:3465:ASN:HA	1:A:3502:ARG:HG2	1.76	0.67
1:A:3769:ARG:O	1:A:3773:ARG:NH1	2.25	0.67
2:G:23:VAL:HG22	2:G:47:LYS:HG2	1.75	0.67
1:B:3959:LYS:O	1:B:3963:ASN:ND2	2.22	0.67
1:D:595:ARG:HH12	1:D:633:LEU:HD11	1.58	0.67
1:D:2470:ILE:HG22	1:D:2525:GLY:HA3	1.76	0.67
1:C:3141:THR:HG23	1:C:3145:GLN:HE22	1.59	0.67
1:A:1745:ILE:O	1:A:1964:ARG:NH2	2.27	0.67
1:B:4961:CYS:SG	1:B:4978:HIS:HE1	2.15	0.67
1:D:155:LYS:HG3	1:D:156:GLN:N	2.08	0.67
1:D:4877:ASP:O	1:C:4582:VAL:HG12	1.94	0.67
1:C:153:ALA:H	1:C:157:ARG:HG2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:915:GLU:O	1:C:919:ASN:N	2.27	0.67
1:A:1443:GLN:NE2	1:A:1560:ASN:O	2.27	0.67
1:A:1839:VAL:HG23	1:A:1935:VAL:HG22	1.77	0.67
1:A:2548:LEU:HB3	1:A:2552:ARG:NH1	2.10	0.67
1:B:64:ILE:O	1:B:111:HIS:NE2	2.27	0.67
1:D:1745:ILE:O	1:D:1964:ARG:NH2	2.27	0.67
1:A:22:LEU:HD21	1:A:37:LEU:HB3	1.76	0.67
1:A:1259:ARG:NH2	1:A:1595:LEU:O	2.27	0.67
1:A:2760:GLU:HA	1:A:2802:LYS:HZ1	1.57	0.67
1:A:3141:THR:HG23	1:A:3145:GLN:HE22	1.59	0.67
2:F:30:LEU:HD12	2:F:31:GLU:H	1.57	0.67
1:D:2393:ASP:O	1:D:2415:ARG:NH2	2.28	0.67
1:C:155:LYS:HG3	1:C:156:GLN:N	2.08	0.67
1:C:1453:VAL:HG12	1:C:1492:CYS:HB2	1.74	0.67
1:C:3981:ALA:O	1:C:3986:TRP:NE1	2.22	0.67
1:B:595:ARG:HH12	1:B:633:LEU:HD11	1.58	0.67
1:D:1252:HIS:HE1	1:D:1255:TYR:HD2	1.41	0.67
1:D:3768:SER:HA	1:D:3771:HIS:CD2	2.30	0.67
1:C:595:ARG:HH12	1:C:633:LEU:HD11	1.58	0.67
1:C:2548:LEU:HB3	1:C:2552:ARG:NH1	2.10	0.67
1:C:3465:ASN:HA	1:C:3502:ARG:HG2	1.76	0.67
1:B:1259:ARG:NH2	1:B:1595:LEU:O	2.27	0.67
1:D:1982:ARG:HG3	1:D:1986:MET:HE1	1.77	0.67
1:A:3990:VAL:HG13	1:A:4051:SER:HB2	1.77	0.67
1:B:1998:PHE:O	1:B:2005:GLN:NE2	2.27	0.67
1:D:14:LEU:HB3	1:D:101:LEU:HD12	1.77	0.67
1:C:2233:CYS:O	1:C:2234:ARG:C	2.38	0.67
1:A:14:LEU:HB3	1:A:101:LEU:HD12	1.77	0.67
1:A:153:ALA:H	1:A:157:ARG:HG2	1.60	0.67
1:B:2548:LEU:HB3	1:B:2552:ARG:NH1	2.10	0.67
1:D:22:LEU:HD21	1:D:37:LEU:HB3	1.76	0.67
1:D:1839:VAL:HG23	1:D:1935:VAL:HG22	1.77	0.67
1:C:1727:ARG:NH2	1:C:1773:PRO:O	2.25	0.67
1:C:1982:ARG:HG3	1:C:1986:MET:HE1	1.77	0.67
1:C:2470:ILE:HG22	1:C:2525:GLY:HA3	1.76	0.67
1:A:2674:LEU:HD11	1:A:2910:THR:HA	1.77	0.67
1:A:3768:SER:HA	1:A:3771:HIS:CD2	2.30	0.67
1:B:1089:TYR:OH	1:B:1091:GLU:OE1	2.13	0.67
1:B:1683:HIS:NE2	1:B:1798:LEU:O	2.17	0.67
1:B:2091:PRO:HB3	1:B:2096:GLU:HB2	1.77	0.67
1:B:2393:ASP:O	1:B:2415:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.30	0.67
1:D:64:ILE:O	1:D:111:HIS:NE2	2.27	0.67
1:D:153:ALA:H	1:D:157:ARG:HG2	1.59	0.67
1:D:1089:TYR:OH	1:D:1091:GLU:OE1	2.13	0.67
1:C:2095:GLN:NE2	1:C:2127:GLN:O	2.17	0.67
1:B:990:GLU:HG2	1:B:1024:TYR:HB3	1.77	0.66
1:B:1745:ILE:O	1:B:1964:ARG:NH2	2.27	0.66
1:B:2674:LEU:HD11	1:B:2910:THR:HA	1.77	0.66
1:D:2674:LEU:HD11	1:D:2910:THR:HA	1.77	0.66
1:C:850:ASP:O	1:C:1025:ARG:NH2	2.28	0.66
1:C:990:GLU:HG2	1:C:1024:TYR:HB3	1.77	0.66
1:C:2091:PRO:HB3	1:C:2096:GLU:HB2	1.77	0.66
1:C:2674:LEU:HD11	1:C:2910:THR:HA	1.77	0.66
1:A:1252:HIS:HE1	1:A:1255:TYR:HD2	1.41	0.66
1:D:3143:LEU:HD13	1:D:3146:HIS:HE1	1.58	0.66
1:D:4901:ILE:HG13	1:D:4913:ARG:HH21	1.60	0.66
1:C:2198:MET:HB2	1:C:2203:MET:HE3	1.78	0.66
1:C:2393:ASP:O	1:C:2415:ARG:NH2	2.28	0.66
1:C:4901:ILE:HG13	1:C:4913:ARG:HH21	1.60	0.66
1:B:2198:MET:HB2	1:B:2203:MET:HE3	1.78	0.66
1:B:3990:VAL:HG13	1:B:4051:SER:HB2	1.77	0.66
1:D:1436:SER:HB3	1:D:1565:GLU:HB2	1.75	0.66
1:C:64:ILE:O	1:C:111:HIS:NE2	2.27	0.66
1:C:2346:VAL:HG13	1:C:2349:ASN:HB2	1.78	0.66
1:C:4155:PRO:O	1:C:4161:ARG:NH1	2.27	0.66
1:B:119:SER:HA	1:B:148:TRP:HE1	1.60	0.66
1:D:850:ASP:O	1:D:1025:ARG:NH2	2.28	0.66
1:D:1259:ARG:NH2	1:D:1595:LEU:O	2.27	0.66
1:D:1443:GLN:NE2	1:D:1560:ASN:O	2.27	0.66
1:C:1745:ILE:O	1:C:1964:ARG:NH2	2.27	0.66
1:C:1998:PHE:O	1:C:2005:GLN:NE2	2.27	0.66
1:A:1089:TYR:OH	1:A:1091:GLU:OE1	2.13	0.66
1:A:1277:TRP:HD1	1:A:1559:GLN:HG3	1.61	0.66
1:B:102:LEU:HA	1:B:162:LYS:HA	1.78	0.66
1:D:2548:LEU:HB3	1:D:2552:ARG:NH1	2.10	0.66
1:C:3943:ILE:O	1:C:3948:LYS:NZ	2.28	0.66
1:A:119:SER:HA	1:A:148:TRP:HE1	1.60	0.66
1:A:2233:CYS:O	1:A:2234:ARG:C	2.38	0.66
1:A:2393:ASP:O	1:A:2415:ARG:NH2	2.28	0.66
1:B:1839:VAL:HG23	1:B:1935:VAL:HG22	1.77	0.66
1:D:1277:TRP:HD1	1:D:1559:GLN:HG3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:VAL:HA	1:A:551:LEU:HD23	1.77	0.66
1:A:1999:ARG:HD3	1:A:3635:CYS:HB2	1.78	0.66
1:A:2615:ARG:NH2	1:A:2664:PHE:O	2.29	0.66
1:A:3943:ILE:O	1:A:3948:LYS:NZ	2.28	0.66
1:D:2615:ARG:NH2	1:D:2664:PHE:O	2.29	0.66
1:C:14:LEU:HB3	1:C:101:LEU:HD12	1.77	0.66
1:C:1929:MET:O	1:C:1930:LYS:HG3	1.96	0.66
1:C:3768:SER:HA	1:C:3771:HIS:CD2	2.30	0.66
1:A:595:ARG:HH12	1:A:633:LEU:HD11	1.58	0.66
1:A:915:GLU:O	1:A:919:ASN:N	2.27	0.66
1:A:990:GLU:HG2	1:A:1024:TYR:HB3	1.77	0.66
1:A:1929:MET:O	1:A:1930:LYS:HG3	1.96	0.66
1:A:3107:VAL:HG11	1:A:3171:SER:HB2	1.78	0.66
1:A:4901:ILE:HG13	1:A:4913:ARG:HH21	1.60	0.66
1:B:14:LEU:HB3	1:B:101:LEU:HD12	1.77	0.66
1:B:1252:HIS:HE1	1:B:1255:TYR:HD2	1.41	0.66
1:B:3539:ARG:NH1	1:B:3552:PHE:HB3	2.11	0.66
1:D:990:GLU:HG2	1:D:1024:TYR:HB3	1.77	0.66
1:C:34:LYS:N	1:C:53:SER:OG	2.28	0.66
1:C:1089:TYR:OH	1:C:1091:GLU:OE1	2.13	0.66
1:C:1259:ARG:NH2	1:C:1595:LEU:O	2.27	0.66
1:C:3986:TRP:HE3	1:C:4047:MET:HE3	1.61	0.66
1:C:3990:VAL:HG13	1:C:4051:SER:HB2	1.77	0.66
1:A:769:GLU:OE2	1:A:1475:THR:OG1	2.11	0.66
1:B:850:ASP:O	1:B:1025:ARG:NH2	2.28	0.66
1:B:2591:ARG:NH2	1:B:2636:PHE:O	2.29	0.66
1:B:3107:VAL:HG11	1:B:3171:SER:HB2	1.78	0.66
1:D:548:VAL:HA	1:D:551:LEU:HD23	1.77	0.66
1:D:3107:VAL:HG11	1:D:3171:SER:HB2	1.78	0.66
1:C:1277:TRP:HD1	1:C:1559:GLN:HG3	1.61	0.66
1:A:850:ASP:O	1:A:1025:ARG:NH2	2.28	0.66
1:B:442:ILE:HG23	1:B:446:GLN:HE22	1.61	0.66
1:B:3734:HIS:HD2	1:B:3736:GLU:H	1.44	0.66
1:D:2346:VAL:HG13	1:D:2349:ASN:HB2	1.77	0.66
1:D:2591:ARG:NH2	1:D:2636:PHE:O	2.29	0.66
1:A:2470:ILE:HG22	1:A:2525:GLY:HA3	1.76	0.65
1:A:3309:SER:OG	1:A:3348:ARG:NH2	2.30	0.65
1:B:4901:ILE:HG13	1:B:4913:ARG:HH21	1.60	0.65
1:D:2233:CYS:O	1:D:2234:ARG:C	2.38	0.65
1:D:3141:THR:HG23	1:D:3145:GLN:HE22	1.59	0.65
1:C:2591:ARG:NH2	1:C:2636:PHE:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1833:SER:HB3	1:B:1836:PHE:HD2	1.62	0.65
1:D:1929:MET:O	1:D:1930:LYS:HG3	1.96	0.65
1:B:221:ARG:NH2	1:B:397:GLU:OE1	2.28	0.65
1:D:3986:TRP:HE3	1:D:4047:MET:HE3	1.61	0.65
1:C:221:ARG:NH2	1:C:397:GLU:OE1	2.28	0.65
1:C:1252:HIS:HE1	1:C:1255:TYR:HD2	1.41	0.65
1:C:1839:VAL:HG23	1:C:1935:VAL:HG22	1.77	0.65
1:A:2091:PRO:HB3	1:A:2096:GLU:HB2	1.77	0.65
1:A:2198:MET:HB2	1:A:2203:MET:HE3	1.78	0.65
1:A:2303:ALA:HB2	1:A:2360:LYS:HD3	1.79	0.65
1:A:2970:SER:HA	1:A:2973:PHE:CE2	2.32	0.65
1:B:153:ALA:H	1:B:157:ARG:HG2	1.60	0.65
1:B:1277:TRP:HD1	1:B:1559:GLN:HG3	1.61	0.65
1:B:2346:VAL:HG13	1:B:2349:ASN:HB2	1.77	0.65
1:B:3986:TRP:HE3	1:B:4047:MET:HE3	1.61	0.65
1:D:3990:VAL:HG13	1:D:4051:SER:HB2	1.77	0.65
1:C:3734:HIS:HD2	1:C:3736:GLU:H	1.44	0.65
1:A:3145:GLN:HE21	1:A:3196:ARG:HD3	1.62	0.65
1:B:769:GLU:OE2	1:B:1475:THR:OG1	2.11	0.65
1:B:1982:ARG:HG3	1:B:1986:MET:HE1	1.77	0.65
1:B:3343:GLN:O	1:B:3414:ARG:NH1	2.30	0.65
1:D:2091:PRO:HB3	1:D:2096:GLU:HB2	1.77	0.65
1:D:2303:ALA:HB2	1:D:2360:LYS:HD3	1.79	0.65
1:D:2685:SER:HA	1:D:2688:HIS:CE1	2.32	0.65
1:D:3343:GLN:O	1:D:3414:ARG:NH1	2.30	0.65
1:C:2685:SER:HA	1:C:2688:HIS:CE1	2.32	0.65
1:C:3107:VAL:HG11	1:C:3171:SER:HB2	1.78	0.65
1:A:2760:GLU:HA	1:A:2802:LYS:NZ	2.11	0.65
1:B:548:VAL:HA	1:B:551:LEU:HD23	1.77	0.65
1:B:886:ARG:NH1	1:B:961:MET:SD	2.69	0.65
1:B:1929:MET:O	1:B:1930:LYS:HG3	1.96	0.65
1:D:102:LEU:HA	1:D:162:LYS:HA	1.78	0.65
1:D:3145:GLN:HE21	1:D:3196:ARG:HD3	1.62	0.65
1:C:1154:ASP:O	1:C:1158:ASN:N	2.29	0.65
1:C:1833:SER:HB3	1:C:1836:PHE:HD2	1.62	0.65
1:C:4958:CYS:SG	1:C:4961:CYS:CB	2.84	0.65
1:A:102:LEU:HA	1:A:162:LYS:HA	1.78	0.65
1:B:2615:ARG:NH2	1:B:2664:PHE:O	2.29	0.65
1:D:442:ILE:HG23	1:D:446:GLN:HE22	1.61	0.65
1:D:3309:SER:OG	1:D:3348:ARG:NH2	2.30	0.65
1:D:3553:LEU:HA	1:D:3556:ASN:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3145:GLN:HE21	1:C:3196:ARG:HD3	1.62	0.65
1:C:3309:SER:OG	1:C:3348:ARG:NH2	2.30	0.65
1:A:442:ILE:HG23	1:A:446:GLN:HE22	1.61	0.65
1:A:2346:VAL:HG13	1:A:2349:ASN:HB2	1.77	0.65
1:A:3986:TRP:HE3	1:A:4047:MET:HE3	1.61	0.65
1:A:4064:MET:HE1	1:A:4110:PHE:CE2	2.32	0.65
1:B:2685:SER:HA	1:B:2688:HIS:CE1	2.32	0.65
1:D:12:GLN:HG2	1:D:165:VAL:HB	1.79	0.65
1:D:2548:LEU:HB3	1:D:2552:ARG:HH12	1.62	0.65
1:D:2970:SER:HA	1:D:2973:PHE:CE2	2.32	0.65
1:C:769:GLU:OE2	1:C:1475:THR:OG1	2.11	0.65
1:C:1867:GLU:OE2	1:C:1928:GLN:NE2	2.29	0.65
1:C:2303:ALA:HB2	1:C:2360:LYS:HD3	1.79	0.65
1:C:3294:PRO:HB2	1:C:3297:PRO:HD2	1.79	0.65
1:B:4064:MET:HE1	1:B:4110:PHE:CE2	2.32	0.65
1:D:1999:ARG:HD3	1:D:3635:CYS:HB2	1.78	0.65
1:D:2198:MET:HB2	1:D:2203:MET:HE3	1.78	0.65
1:C:119:SER:HA	1:C:148:TRP:HE1	1.60	0.65
1:C:2760:GLU:HA	1:C:2802:LYS:NZ	2.11	0.65
1:A:1272:LEU:HD13	1:A:1289:LEU:HD21	1.79	0.65
1:A:1982:ARG:HG3	1:A:1986:MET:HE1	1.77	0.65
1:A:3343:GLN:O	1:A:3414:ARG:NH1	2.30	0.65
1:B:2771:ILE:O	1:B:2774:ASN:ND2	2.30	0.65
1:D:221:ARG:NH2	1:D:397:GLU:OE1	2.28	0.65
1:D:2760:GLU:HA	1:D:2802:LYS:NZ	2.11	0.65
1:D:3539:ARG:NH1	1:D:3552:PHE:HB3	2.11	0.65
1:C:2615:ARG:NH2	1:C:2664:PHE:O	2.29	0.65
1:A:2771:ILE:O	1:A:2774:ASN:ND2	2.30	0.64
1:B:1999:ARG:HD3	1:B:3635:CYS:HB2	1.78	0.64
1:B:2303:ALA:HB2	1:B:2360:LYS:HD3	1.79	0.64
1:B:2369[B]:ARG:NE	1:B:2369[B]:ARG:HA	2.12	0.64
1:B:3943:ILE:O	1:B:3948:LYS:NZ	2.28	0.64
1:B:4207:MET:SD	1:B:4208:PRO:HD2	2.37	0.64
1:D:156:GLN:HG2	1:D:164:ARG:HH22	1.62	0.64
1:A:491:ILE:HD11	1:A:522:LEU:HB3	1.80	0.64
1:A:2591:ARG:NH2	1:A:2636:PHE:O	2.29	0.64
1:A:3539:ARG:NH1	1:A:3552:PHE:HB3	2.11	0.64
1:A:4207:MET:SD	1:A:4208:PRO:HD2	2.37	0.64
1:A:4958:CYS:SG	1:A:4961:CYS:CB	2.84	0.64
1:B:491:ILE:HD11	1:B:522:LEU:HB3	1.80	0.64
1:D:119:SER:HA	1:D:148:TRP:HE1	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3294:PRO:HB2	1:D:3297:PRO:HD2	1.79	0.64
1:C:548:VAL:HA	1:C:551:LEU:HD23	1.77	0.64
1:A:886:ARG:NH1	1:A:961:MET:SD	2.69	0.64
1:A:2369[B]:ARG:NE	1:A:2369[B]:ARG:HA	2.12	0.64
1:A:3824:LYS:HZ1	1:A:3908:GLY:HA3	1.62	0.64
1:B:224:HIS:O	1:C:155:LYS:NZ	2.30	0.64
1:B:3553:LEU:HA	1:B:3556:ASN:HB2	1.78	0.64
1:D:3943:ILE:O	1:D:3948:LYS:NZ	2.28	0.64
1:C:156:GLN:HG2	1:C:164:ARG:HH22	1.62	0.64
1:C:2369[B]:ARG:HA	1:C:2369[B]:ARG:NE	2.12	0.64
1:C:4064:MET:HE1	1:C:4110:PHE:CE2	2.32	0.64
1:B:34:LYS:N	1:B:53:SER:OG	2.28	0.64
1:B:1272:LEU:HD13	1:B:1289:LEU:HD21	1.79	0.64
1:B:2010:LEU:HD11	1:B:3653:PHE:HE1	1.63	0.64
1:B:2233:CYS:O	1:B:2234:ARG:C	2.38	0.64
1:B:3145:GLN:HE21	1:B:3196:ARG:HD3	1.62	0.64
1:B:4958:CYS:SG	1:B:4961:CYS:CB	2.84	0.64
1:D:2369[B]:ARG:NE	1:D:2369[B]:ARG:HA	2.12	0.64
1:C:442:ILE:HG23	1:C:446:GLN:HE22	1.61	0.64
1:C:3343:GLN:O	1:C:3414:ARG:NH1	2.30	0.64
1:A:222:LEU:HD13	1:A:388:LEU:HD22	1.79	0.64
1:A:1833:SER:HB3	1:A:1836:PHE:HD2	1.62	0.64
1:A:2685:SER:HA	1:A:2688:HIS:CE1	2.32	0.64
2:E:82:TYR:HE2	2:E:91:ILE:HD13	1.62	0.64
1:B:3309:SER:OG	1:B:3348:ARG:NH2	2.30	0.64
1:C:102:LEU:HA	1:C:162:LYS:HA	1.78	0.64
1:C:222:LEU:HD13	1:C:388:LEU:HD22	1.79	0.64
1:A:12:GLN:HG2	1:A:165:VAL:HB	1.79	0.64
1:B:156:GLN:HG2	1:B:164:ARG:HH22	1.62	0.64
1:D:769:GLU:OE2	1:D:1475:THR:OG1	2.11	0.64
1:D:772:ASN:H	1:D:1470:ARG:NH2	1.95	0.64
1:D:1660:GLN:HE22	1:D:1706:PRO:HB2	1.63	0.64
1:D:1833:SER:HB3	1:D:1836:PHE:HD2	1.62	0.64
1:D:4207:MET:SD	1:D:4208:PRO:HD2	2.37	0.64
1:C:886:ARG:NH1	1:C:961:MET:SD	2.69	0.64
1:C:2970:SER:HA	1:C:2973:PHE:CE2	2.32	0.64
1:C:2996:LYS:HE2	1:C:3000:LYS:HE3	1.80	0.64
1:A:214:VAL:HG22	1:A:341:TYR:HD1	1.63	0.64
1:B:971:ASP:HB3	1:B:974:HIS:ND1	2.13	0.64
1:C:971:ASP:HB3	1:C:974:HIS:ND1	2.13	0.64
1:C:2771:ILE:O	1:C:2774:ASN:ND2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3539:ARG:NH1	1:C:3552:PHE:HB3	2.11	0.64
1:C:3553:LEU:HA	1:C:3556:ASN:HB2	1.78	0.64
1:A:156:GLN:HG2	1:A:164:ARG:HH22	1.62	0.64
1:A:256:ALA:HB2	1:A:477:LEU:HD23	1.80	0.64
1:B:3294:PRO:HB2	1:B:3297:PRO:HD2	1.79	0.64
1:D:886:ARG:NH1	1:D:961:MET:SD	2.69	0.64
1:D:3734:HIS:HD2	1:D:3736:GLU:H	1.44	0.64
1:C:214:VAL:HG22	1:C:341:TYR:HD1	1.63	0.64
1:A:2548:LEU:HB3	1:A:2552:ARG:HH12	1.62	0.64
1:A:3553:LEU:HA	1:A:3556:ASN:HB2	1.78	0.64
2:H:82:TYR:HE2	2:H:91:ILE:HD13	1.62	0.64
1:B:266:ARG:NH2	1:B:272:SER:OG	2.31	0.64
1:B:2757:LYS:HG3	1:B:2830:GLU:HG3	1.80	0.64
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.32	0.64
1:B:4902:GLU:O	1:B:4913:ARG:NH2	2.31	0.64
1:D:266:ARG:NH2	1:D:272:SER:OG	2.31	0.64
1:D:971:ASP:HB3	1:D:974:HIS:ND1	2.13	0.64
1:D:4064:MET:HE1	1:D:4110:PHE:CE2	2.32	0.64
1:A:1660:GLN:HE22	1:A:1706:PRO:HB2	1.63	0.64
1:B:2583:LEU:HB3	1:B:2622:LEU:HD22	1.80	0.64
1:B:2760:GLU:HA	1:B:2802:LYS:NZ	2.11	0.64
1:D:491:ILE:HD11	1:D:522:LEU:HB3	1.80	0.64
1:D:4155:PRO:O	1:D:4161:ARG:NH1	2.27	0.64
1:C:12:GLN:HG2	1:C:165:VAL:HB	1.79	0.64
1:C:1272:LEU:HD13	1:C:1289:LEU:HD21	1.79	0.64
1:A:266:ARG:NH2	1:A:272:SER:OG	2.31	0.63
1:A:772:ASN:H	1:A:1470:ARG:NH2	1.95	0.63
1:A:2010:LEU:HD11	1:A:3653:PHE:HE1	1.63	0.63
1:B:4155:PRO:O	1:B:4161:ARG:NH1	2.27	0.63
1:D:214:VAL:HG22	1:D:341:TYR:HD1	1.63	0.63
1:D:2289:ALA:O	1:D:2291:GLN:NE2	2.31	0.63
1:C:1660:GLN:HE22	1:C:1706:PRO:HB2	1.63	0.63
1:A:2757:LYS:HG3	1:A:2830:GLU:HG3	1.80	0.63
2:G:82:TYR:HE2	2:G:91:ILE:HD13	1.62	0.63
1:B:214:VAL:HG22	1:B:341:TYR:HD1	1.63	0.63
1:B:2548:LEU:HB3	1:B:2552:ARG:HH12	1.62	0.63
1:D:256:ALA:HB2	1:D:477:LEU:HD23	1.80	0.63
1:C:266:ARG:NH2	1:C:272:SER:OG	2.31	0.63
1:C:491:ILE:HD11	1:C:522:LEU:HB3	1.80	0.63
1:C:830:ARG:HH12	1:C:832:GLU:HB2	1.63	0.63
1:C:2548:LEU:HB3	1:C:2552:ARG:HH12	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4902:GLU:O	1:A:4913:ARG:NH2	2.31	0.63
1:B:3293:PRO:HB2	1:B:3298:ALA:HB2	1.81	0.63
1:D:1867:GLU:OE2	1:D:1928:GLN:NE2	2.29	0.63
1:C:4207:MET:SD	1:C:4208:PRO:HD2	2.37	0.63
1:A:1778:SER:OG	1:A:1797:ARG:NH2	2.32	0.63
1:A:1978:ALA:HA	1:A:1981:MET:HE3	1.81	0.63
2:F:82:TYR:HE2	2:F:91:ILE:HD13	1.62	0.63
1:B:1723:ALA:HB3	1:B:1851:MET:HE1	1.81	0.63
1:B:3204:ALA:O	1:B:3211:ASN:ND2	2.32	0.63
1:D:2996:LYS:HE2	1:D:3000:LYS:HE3	1.80	0.63
1:D:3293:PRO:HB2	1:D:3298:ALA:HB2	1.81	0.63
1:C:256:ALA:HB2	1:C:477:LEU:HD23	1.80	0.63
1:A:3294:PRO:HB2	1:A:3297:PRO:HD2	1.79	0.63
1:A:3734:HIS:HD2	1:A:3736:GLU:H	1.44	0.63
1:B:1154:ASP:O	1:B:1158:ASN:N	2.29	0.63
1:D:1723:ALA:HB3	1:D:1851:MET:HE1	1.81	0.63
1:C:2757:LYS:HG3	1:C:2830:GLU:HG3	1.80	0.63
1:A:3223:SER:OG	1:A:3226:GLU:OE1	2.13	0.63
1:B:12:GLN:HG2	1:B:165:VAL:HB	1.79	0.63
1:B:222:LEU:HD13	1:B:388:LEU:HD22	1.79	0.63
1:B:256:ALA:HB2	1:B:477:LEU:HD23	1.80	0.63
1:B:830:ARG:HH12	1:B:832:GLU:HB2	1.63	0.63
1:D:1154:ASP:O	1:D:1158:ASN:N	2.29	0.63
1:D:1978:ALA:HA	1:D:1981:MET:HE3	1.81	0.63
1:D:4661:TYR:OH	1:D:4788:SER:OG	2.16	0.63
1:D:4902:GLU:O	1:D:4913:ARG:NH2	2.31	0.63
1:C:2010:LEU:HD11	1:C:3653:PHE:HE1	1.63	0.63
1:A:676:THR:HG22	1:A:677:ALA:H	1.64	0.63
1:A:2583:LEU:HB3	1:A:2622:LEU:HD22	1.80	0.63
1:A:2911:LEU:O	1:A:2916:LYS:NZ	2.32	0.63
1:B:1660:GLN:HE22	1:B:1706:PRO:HB2	1.63	0.63
1:B:2765:LYS:HA	1:B:2768:PHE:HD2	1.64	0.63
1:B:2996:LYS:HE2	1:B:3000:LYS:HE3	1.80	0.63
1:D:1272:LEU:HD13	1:D:1289:LEU:HD21	1.79	0.63
1:D:2771:ILE:O	1:D:2774:ASN:ND2	2.30	0.63
1:D:4958:CYS:SG	1:D:4961:CYS:CB	2.84	0.63
1:C:1999:ARG:HD3	1:C:3635:CYS:HB2	1.78	0.63
1:C:3204:ALA:O	1:C:3211:ASN:ND2	2.32	0.63
1:C:3329:ILE:O	1:C:3403:ARG:NH1	2.32	0.63
1:A:620:LEU:O	1:A:624:ASN:ND2	2.30	0.63
1:B:340:LYS:HG2	1:B:343:GLU:HB2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:222:LEU:HD13	1:D:388:LEU:HD22	1.79	0.63
1:D:830:ARG:HH12	1:D:832:GLU:HB2	1.63	0.63
1:D:2010:LEU:HD11	1:D:3653:PHE:HE1	1.63	0.63
1:D:3204:ALA:O	1:D:3211:ASN:ND2	2.32	0.63
1:C:676:THR:HG22	1:C:677:ALA:H	1.64	0.63
1:A:4846:VAL:HG21	1:D:4816:ILE:HD11	1.81	0.63
1:B:3282:PRO:HG2	1:B:3345:ILE:HG22	1.80	0.63
1:D:1778:SER:OG	1:D:1797:ARG:NH2	2.32	0.63
1:D:2757:LYS:HG3	1:D:2830:GLU:HG3	1.80	0.63
1:C:772:ASN:H	1:C:1470:ARG:NH2	1.95	0.63
1:C:2765:LYS:HA	1:C:2768:PHE:HD2	1.64	0.63
1:C:3293:PRO:HB2	1:C:3298:ALA:HB2	1.81	0.63
1:C:4902:GLU:O	1:C:4913:ARG:NH2	2.31	0.63
1:A:340:LYS:HG2	1:A:343:GLU:HB2	1.81	0.62
1:A:1723:ALA:HB3	1:A:1851:MET:HE1	1.81	0.62
1:A:1870:VAL:HG11	1:A:2097:LEU:HD22	1.81	0.62
1:A:2996:LYS:HE2	1:A:3000:LYS:HE3	1.80	0.62
1:A:4954:MET:HE1	1:A:4959:PHE:HB2	1.81	0.62
1:D:3282:PRO:HG2	1:D:3345:ILE:HG22	1.80	0.62
1:A:3293:PRO:HB2	1:A:3298:ALA:HB2	1.81	0.62
1:B:676:THR:HG22	1:B:677:ALA:H	1.64	0.62
1:B:2948:THR:HG22	1:B:2949:SER:H	1.64	0.62
1:C:1723:ALA:HB3	1:C:1851:MET:HE1	1.81	0.62
1:C:1870:VAL:HG11	1:C:2097:LEU:HD22	1.81	0.62
1:A:221:ARG:NH2	1:A:397:GLU:OE1	2.28	0.62
1:A:2199:ARG:NH1	1:A:2246:ASN:OD1	2.32	0.62
1:B:1229:ASN:O	1:B:1230:MET:HE2	2.00	0.62
1:D:842:PRO:HG3	1:D:1073:ARG:HG3	1.81	0.62
1:D:2583:LEU:HB3	1:D:2622:LEU:HD22	1.80	0.62
1:A:830:ARG:HH12	1:A:832:GLU:HB2	1.63	0.62
1:A:3282:PRO:HG2	1:A:3345:ILE:HG22	1.80	0.62
1:B:620:LEU:O	1:B:624:ASN:ND2	2.30	0.62
1:B:2199:ARG:NH1	1:B:2246:ASN:OD1	2.32	0.62
1:D:155:LYS:HZ2	1:C:225:GLY:HA2	1.64	0.62
1:D:620:LEU:O	1:D:624:ASN:ND2	2.30	0.62
1:D:676:THR:HG22	1:D:677:ALA:H	1.64	0.62
1:C:1778:SER:OG	1:C:1797:ARG:NH2	2.32	0.62
1:A:248:GLU:OE1	1:A:257:ARG:NH2	2.33	0.62
1:A:3329:ILE:O	1:A:3403:ARG:NH1	2.32	0.62
2:G:24:VAL:HG12	2:G:103:LEU:HD13	1.81	0.62
1:B:1978:ALA:HA	1:B:1981:MET:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3329:ILE:O	1:B:3403:ARG:NH1	2.32	0.62
1:D:935:LEU:HD21	1:D:987:ARG:HD2	1.81	0.62
1:D:1870:VAL:HG21	1:D:2097:LEU:HD13	1.82	0.62
1:C:2583:LEU:HB3	1:C:2622:LEU:HD22	1.80	0.62
1:C:2911:LEU:O	1:C:2916:LYS:NZ	2.32	0.62
1:A:1140:GLY:HA3	1:A:1169:LEU:HD23	1.82	0.62
1:A:1245:PHE:HB3	1:A:1290:ARG:NH2	2.15	0.62
1:A:3324:VAL:HA	1:A:3327:LEU:HG	1.82	0.62
1:B:248:GLU:OE1	1:B:257:ARG:NH2	2.33	0.62
1:B:1778:SER:OG	1:B:1797:ARG:NH2	2.32	0.62
1:B:1870:VAL:HG11	1:B:2097:LEU:HD22	1.81	0.62
1:D:1140:GLY:HA3	1:D:1169:LEU:HD23	1.82	0.62
1:D:1240:LYS:HB3	1:D:1604:SER:O	2.00	0.62
1:D:4954:MET:HE1	1:D:4959:PHE:HB2	1.81	0.62
1:C:935:LEU:HD21	1:C:987:ARG:HD2	1.82	0.62
1:C:2219:GLU:HB2	1:C:2263:ILE:HG12	1.82	0.62
1:C:3282:PRO:HG2	1:C:3345:ILE:HG22	1.80	0.62
1:A:935:LEU:HD21	1:A:987:ARG:HD2	1.82	0.62
1:A:1229:ASN:O	1:A:1230:MET:HE2	2.00	0.62
1:A:1870:VAL:HG21	1:A:2097:LEU:HD13	1.82	0.62
1:A:3204:ALA:O	1:A:3211:ASN:ND2	2.32	0.62
1:A:4155:PRO:O	1:A:4161:ARG:NH1	2.27	0.62
1:B:772:ASN:H	1:B:1470:ARG:NH2	1.95	0.62
1:B:3350:ARG:O	1:B:3415:TYR:OH	2.17	0.62
1:B:3357:HIS:O	1:B:3361:THR:HG23	2.00	0.62
1:D:340:LYS:HG2	1:D:343:GLU:HB2	1.81	0.62
1:D:1870:VAL:HG11	1:D:2097:LEU:HD22	1.81	0.62
1:D:2948:THR:HG22	1:D:2949:SER:H	1.64	0.62
1:A:1294:PRO:HB3	1:A:1549:PHE:HE1	1.65	0.62
1:A:2272:PRO:HA	1:A:2275:VAL:HG12	1.82	0.62
1:A:2289:ALA:O	1:A:2291:GLN:NE2	2.31	0.62
1:B:856:VAL:HB	1:B:991:ASN:HD21	1.65	0.62
1:B:1140:GLY:HA3	1:B:1169:LEU:HD23	1.82	0.62
1:B:1245:PHE:HB3	1:B:1290:ARG:NH2	2.15	0.62
1:D:248:GLU:OE1	1:D:257:ARG:NH2	2.33	0.62
1:D:2765:LYS:HA	1:D:2768:PHE:HD2	1.64	0.62
1:D:2911:LEU:O	1:D:2916:LYS:NZ	2.32	0.62
1:D:3329:ILE:O	1:D:3403:ARG:NH1	2.32	0.62
1:C:3350:ARG:O	1:C:3415:TYR:OH	2.17	0.62
1:C:4661:TYR:OH	1:C:4788:SER:OG	2.16	0.62
1:C:4989:MET:HA	1:C:4989:MET:HE3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4152:GLU:OE1	1:A:4192:ARG:NH1	2.31	0.62
1:A:4989:MET:HA	1:A:4989:MET:HE3	1.82	0.62
2:H:24:VAL:HG12	2:H:103:LEU:HD13	1.81	0.62
1:B:2272:PRO:HA	1:B:2275:VAL:HG12	1.82	0.62
1:B:3539:ARG:HH12	1:B:3549:VAL:HA	1.64	0.62
1:B:3995:VAL:O	1:B:3999:MET:HG2	2.00	0.62
1:D:402:ARG:NH1	1:D:402:ARG:O	2.33	0.62
1:D:856:VAL:HB	1:D:991:ASN:HD21	1.65	0.62
1:D:1245:PHE:HB3	1:D:1290:ARG:NH2	2.15	0.62
1:D:1294:PRO:HB3	1:D:1549:PHE:HE1	1.65	0.62
1:D:1462:MET:N	1:D:1462:MET:SD	2.73	0.62
1:D:2272:PRO:HA	1:D:2275:VAL:HG12	1.82	0.62
1:C:856:VAL:HB	1:C:991:ASN:HD21	1.65	0.62
1:C:1245:PHE:HB3	1:C:1290:ARG:NH2	2.15	0.62
1:C:2610:LEU:HD23	1:C:2614:ILE:HD11	1.81	0.62
1:C:3321:ARG:HA	1:C:3324:VAL:HG22	1.82	0.62
1:B:402:ARG:NH1	1:B:402:ARG:O	2.33	0.62
1:B:2219:GLU:HB2	1:B:2263:ILE:HG12	1.81	0.62
1:B:4031:LEU:HG	1:B:4044:MET:HE1	1.82	0.62
1:D:2530:MET:HE1	1:D:2589:LEU:HD11	1.82	0.62
1:D:3321:ARG:HA	1:D:3324:VAL:HG22	1.82	0.62
1:C:402:ARG:NH1	1:C:402:ARG:O	2.33	0.62
1:C:3504:SER:HB2	1:C:3507:THR:HG23	1.81	0.62
1:B:2610:LEU:HD23	1:B:2614:ILE:HD11	1.81	0.61
1:C:340:LYS:HG2	1:C:343:GLU:HB2	1.81	0.61
1:C:3995:VAL:O	1:C:3999:MET:HG2	2.00	0.61
1:C:4242:ILE:O	1:C:4246:GLN:NE2	2.33	0.61
1:A:842:PRO:HG3	1:A:1073:ARG:HG3	1.81	0.61
1:A:861:ILE:HA	1:A:930:LYS:HE2	1.82	0.61
1:A:2530:MET:HE1	1:A:2589:LEU:HD11	1.82	0.61
1:A:2765:LYS:HA	1:A:2768:PHE:HD2	1.64	0.61
1:A:3995:VAL:O	1:A:3999:MET:HG2	2.00	0.61
1:A:4242:ILE:O	1:A:4246:GLN:NE2	2.33	0.61
1:B:1130:GLN:HE22	1:B:1136:SER:HB2	1.65	0.61
1:B:2447:LYS:HD2	1:B:2450:ALA:H	1.66	0.61
1:B:3504:SER:HB2	1:B:3507:THR:HG23	1.81	0.61
1:B:4242:ILE:O	1:B:4246:GLN:NE2	2.33	0.61
1:B:4954:MET:HE1	1:B:4959:PHE:HB2	1.81	0.61
1:D:639:ASN:N	1:D:678:GLN:OE1	2.33	0.61
1:D:2199:ARG:NH1	1:D:2246:ASN:OD1	2.32	0.61
1:D:3223:SER:OG	1:D:3226:GLU:OE1	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:639:ASN:N	1:C:678:GLN:OE1	2.33	0.61
1:C:1130:GLN:HE22	1:C:1136:SER:HB2	1.65	0.61
1:C:1462:MET:SD	1:C:1462:MET:N	2.73	0.61
1:A:884:LEU:HG	1:A:955:LEU:HD21	1.82	0.61
1:A:1506:GLN:NE2	1:D:2772:GLN:HG3	2.15	0.61
1:B:225:GLY:HA2	1:C:155:LYS:NZ	2.16	0.61
1:D:3324:VAL:HA	1:D:3327:LEU:HG	1.82	0.61
1:C:349:GLN:NE2	1:C:355:LEU:O	2.34	0.61
1:C:1245:PHE:HB3	1:C:1290:ARG:CZ	2.31	0.61
1:C:2199:ARG:NH1	1:C:2246:ASN:OD1	2.32	0.61
1:C:2289:ALA:O	1:C:2291:GLN:NE2	2.31	0.61
1:C:3057:PHE:HB3	1:C:3060:ASP:HB2	1.82	0.61
1:A:1743[A]:ARG:NH2	1:A:1967:ASP:OD2	2.32	0.61
1:A:2500:ALA:HB2	1:A:2553:TYR:HD1	1.65	0.61
1:A:3321:ARG:HA	1:A:3324:VAL:HG22	1.82	0.61
1:A:4056:GLU:HG2	1:A:4166:LEU:HD22	1.82	0.61
1:B:1240:LYS:HB3	1:B:1604:SER:O	2.00	0.61
1:B:1462:MET:N	1:B:1462:MET:SD	2.73	0.61
1:B:3321:ARG:HA	1:B:3324:VAL:HG22	1.82	0.61
1:D:4056:GLU:HG2	1:D:4166:LEU:HD22	1.82	0.61
1:C:1140:GLY:HA3	1:C:1169:LEU:HD23	1.82	0.61
1:C:1978:ALA:HA	1:C:1981:MET:HE3	1.80	0.61
1:C:2272:PRO:HA	1:C:2275:VAL:HG12	1.82	0.61
1:A:1240:LYS:HB3	1:A:1604:SER:O	2.00	0.61
1:A:1619:ARG:HB2	1:A:1626:TRP:CE2	2.36	0.61
1:A:1990:GLU:OE1	1:A:1993:ARG:NH2	2.32	0.61
1:A:2447:LYS:HD2	1:A:2450:ALA:H	1.65	0.61
1:A:2519:LEU:HD22	1:A:2575:ARG:HG2	1.82	0.61
1:B:1245:PHE:HB3	1:B:1290:ARG:CZ	2.31	0.61
1:B:2911:LEU:O	1:B:2916:LYS:NZ	2.32	0.61
1:D:1229:ASN:O	1:D:1230:MET:HE2	2.00	0.61
1:D:2447:LYS:HD2	1:D:2450:ALA:H	1.65	0.61
1:D:3357:HIS:O	1:D:3361:THR:HG23	2.00	0.61
1:D:3995:VAL:O	1:D:3999:MET:HG2	2.00	0.61
1:C:3357:HIS:O	1:C:3361:THR:HG23	2.00	0.61
1:C:3539:ARG:HH12	1:C:3549:VAL:HA	1.64	0.61
1:A:2219:GLU:HB2	1:A:2263:ILE:HG12	1.81	0.61
1:A:2610:LEU:HD23	1:A:2614:ILE:HD11	1.81	0.61
1:A:3504:SER:HB2	1:A:3507:THR:HG23	1.82	0.61
1:B:861:ILE:HA	1:B:930:LYS:HE2	1.82	0.61
1:D:1130:GLN:HE22	1:D:1136:SER:HB2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1990:GLU:OE1	1:D:1993:ARG:NH2	2.32	0.61
1:C:248:GLU:OE1	1:C:257:ARG:NH2	2.33	0.61
1:C:842:PRO:HG3	1:C:1073:ARG:HG3	1.82	0.61
1:C:3895:HIS:NE2	1:C:3970:GLN:OE1	2.34	0.61
1:A:1245:PHE:HB3	1:A:1290:ARG:CZ	2.31	0.61
1:A:4031:LEU:HG	1:A:4044:MET:HE1	1.82	0.61
1:B:2103:VAL:O	1:B:2107:GLN:NE2	2.34	0.61
1:B:2760:GLU:HA	1:B:2802:LYS:HZ1	1.64	0.61
1:B:4892:ARG:HH12	1:C:4898:GLY:H	1.49	0.61
1:D:2410:PRO:HB2	1:D:2413:GLU:HA	1.82	0.61
1:D:2519:LEU:HD22	1:D:2575:ARG:HG2	1.82	0.61
1:D:2760:GLU:HA	1:D:2802:LYS:HZ1	1.65	0.61
1:C:2140:ARG:HH22	1:C:2201:LEU:HD23	1.66	0.61
1:A:856:VAL:HB	1:A:991:ASN:HD21	1.65	0.61
1:A:3357:HIS:O	1:A:3361:THR:HG23	2.00	0.61
1:B:349:GLN:NE2	1:B:355:LEU:O	2.34	0.61
1:B:365:LYS:HE2	1:B:369:LEU:HD21	1.83	0.61
1:B:842:PRO:HG3	1:B:1073:ARG:HG3	1.81	0.61
1:B:1619:ARG:HB2	1:B:1626:TRP:CE2	2.36	0.61
1:B:3284:TRP:HB3	1:B:3305:THR:HG21	1.83	0.61
1:B:4152:GLU:OE1	1:B:4192:ARG:NH1	2.31	0.61
1:D:34:LYS:N	1:D:53:SER:OG	2.28	0.61
1:D:1245:PHE:HB3	1:D:1290:ARG:CZ	2.31	0.61
1:D:4989:MET:HE3	1:D:4989:MET:HA	1.82	0.61
1:C:1240:LYS:HB3	1:C:1604:SER:O	2.00	0.61
1:C:1990:GLU:OE1	1:C:1993:ARG:NH2	2.32	0.61
1:C:2410:PRO:HB2	1:C:2413:GLU:HA	1.82	0.61
1:C:4031:LEU:HG	1:C:4044:MET:HE1	1.82	0.61
1:A:1867:GLU:OE2	1:A:1928:GLN:NE2	2.29	0.61
1:A:2621:HIS:HA	1:A:2624:ARG:HE	1.66	0.61
2:E:18:ARG:HH11	2:E:51:GLY:HA3	1.65	0.61
2:E:24:VAL:HG12	2:E:103:LEU:HD13	1.81	0.61
2:H:18:ARG:HH11	2:H:51:GLY:HA3	1.65	0.61
1:B:935:LEU:HD21	1:B:987:ARG:HD2	1.82	0.61
1:D:349:GLN:NE2	1:D:355:LEU:O	2.34	0.61
1:D:884:LEU:HG	1:D:955:LEU:HD21	1.82	0.61
1:D:1224:GLU:OE2	1:D:1827:ARG:NH1	2.34	0.61
1:D:2610:LEU:HD23	1:D:2614:ILE:HD11	1.81	0.61
1:C:2948:THR:HG22	1:C:2949:SER:H	1.64	0.61
1:C:4897:ILE:O	1:C:4901:ILE:HG22	2.01	0.61
1:A:349:GLN:NE2	1:A:355:LEU:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1130:GLN:HE22	1:A:1136:SER:HB2	1.65	0.61
1:A:1224:GLU:OE2	1:A:1827:ARG:NH1	2.34	0.61
1:A:1462:MET:N	1:A:1462:MET:SD	2.73	0.61
1:A:2948:THR:HG22	1:A:2949:SER:H	1.64	0.61
1:A:3284:TRP:HB3	1:A:3305:THR:HG21	1.83	0.61
2:E:76:ILE:O	2:E:96:THR:OG1	2.19	0.61
1:B:884:LEU:HG	1:B:955:LEU:HD21	1.82	0.61
1:B:4056:GLU:HG2	1:B:4166:LEU:HD22	1.82	0.61
1:D:3057:PHE:HB3	1:D:3060:ASP:HB2	1.82	0.61
1:C:365:LYS:HE2	1:C:369:LEU:HD21	1.83	0.61
1:C:1294:PRO:HB3	1:C:1549:PHE:HE1	1.65	0.61
1:C:2530:MET:HE1	1:C:2589:LEU:HD11	1.82	0.61
1:C:4680:LYS:O	1:C:4685:GLY:N	2.34	0.61
1:A:3376:GLU:HB3	1:A:3380:ARG:NH1	2.16	0.60
1:B:1870:VAL:HG21	1:B:2097:LEU:HD13	1.82	0.60
1:B:3289:PRO:HG2	1:B:3308:THR:HG22	1.83	0.60
1:B:3324:VAL:HA	1:B:3327:LEU:HG	1.82	0.60
1:B:4897:ILE:O	1:B:4901:ILE:HG22	2.01	0.60
1:D:861:ILE:HA	1:D:930:LYS:HE2	1.83	0.60
1:D:1271:ARG:NH2	1:D:1560:ASN:OD1	2.34	0.60
1:D:3376:GLU:HB3	1:D:3380:ARG:NH1	2.16	0.60
1:D:3504:SER:HB2	1:D:3507:THR:HG23	1.81	0.60
1:C:620:LEU:O	1:C:624:ASN:ND2	2.30	0.60
1:C:2103:VAL:O	1:C:2107:GLN:NE2	2.34	0.60
1:C:3980:LEU:HD23	1:C:4030:LEU:HD21	1.84	0.60
1:C:4056:GLU:HG2	1:C:4166:LEU:HD22	1.82	0.60
1:A:446:GLN:HE21	1:A:521:LEU:HD13	1.66	0.60
1:A:880:GLU:OE2	1:A:952:LYS:NZ	2.34	0.60
1:A:971:ASP:HB3	1:A:974:HIS:ND1	2.13	0.60
1:A:2103:VAL:O	1:A:2107:GLN:NE2	2.34	0.60
2:H:76:ILE:O	2:H:96:THR:OG1	2.19	0.60
2:F:18:ARG:HH11	2:F:51:GLY:HA3	1.65	0.60
1:B:225:GLY:HA2	1:C:155:LYS:HZ2	1.65	0.60
1:B:2410:PRO:HB2	1:B:2413:GLU:HA	1.82	0.60
1:B:2621:HIS:HA	1:B:2624:ARG:HE	1.66	0.60
1:D:1619:ARG:HB2	1:D:1626:TRP:CE2	2.36	0.60
1:D:2219:GLU:HB2	1:D:2263:ILE:HG12	1.82	0.60
1:D:3206:LEU:HB3	1:D:3246:LEU:HB2	1.83	0.60
1:C:1229:ASN:O	1:C:1230:MET:HE2	2.00	0.60
1:A:3980:LEU:HD23	1:A:4030:LEU:HD21	1.84	0.60
2:F:24:VAL:HG12	2:F:103:LEU:HD13	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:880:GLU:OE2	1:B:952:LYS:NZ	2.34	0.60
1:B:1224:GLU:OE2	1:B:1827:ARG:NH1	2.34	0.60
1:B:1743[A]:ARG:NH2	1:B:1967:ASP:OD2	2.32	0.60
1:D:2140:ARG:HH22	1:D:2201:LEU:HD23	1.66	0.60
1:D:3895:HIS:NE2	1:D:3970:GLN:OE1	2.34	0.60
1:D:3980:LEU:HD23	1:D:4030:LEU:HD21	1.84	0.60
1:C:884:LEU:HG	1:C:955:LEU:HD21	1.82	0.60
1:C:1870:VAL:HG21	1:C:2097:LEU:HD13	1.82	0.60
1:C:3289:PRO:HG2	1:C:3308:THR:HG22	1.83	0.60
1:C:3324:VAL:HA	1:C:3327:LEU:HG	1.82	0.60
1:C:4954:MET:HE1	1:C:4959:PHE:HB2	1.81	0.60
1:A:402:ARG:NH1	1:A:402:ARG:O	2.33	0.60
1:A:3057:PHE:HB3	1:A:3060:ASP:HB2	1.82	0.60
2:H:52:LYS:N	2:H:52:LYS:HD2	2.17	0.60
1:B:1271:ARG:NH2	1:B:1560:ASN:OD1	2.34	0.60
1:B:2354:VAL:HG11	1:B:2453:ILE:HD12	1.84	0.60
1:B:4691:GLN:OE1	1:B:4692:PRO:HD2	2.02	0.60
1:D:2500:ALA:HB2	1:D:2553:TYR:HD1	1.65	0.60
1:D:3284:TRP:HB3	1:D:3305:THR:HG21	1.83	0.60
1:D:3289:PRO:HG2	1:D:3308:THR:HG22	1.83	0.60
1:C:861:ILE:HA	1:C:930:LYS:HE2	1.82	0.60
1:C:1619:ARG:HB2	1:C:1626:TRP:CE2	2.36	0.60
1:C:2354:VAL:HG11	1:C:2453:ILE:HD12	1.84	0.60
1:A:419:ASP:OD1	1:A:493:ARG:NH1	2.35	0.60
1:A:1154:ASP:O	1:A:1158:ASN:N	2.29	0.60
1:A:3289:PRO:HG2	1:A:3308:THR:HG22	1.83	0.60
1:A:4750:ILE:O	1:A:4756:ARG:NH1	2.35	0.60
1:B:937:CYS:HA	1:B:1054:GLU:O	2.02	0.60
1:B:2530:MET:HE1	1:B:2589:LEU:HD11	1.82	0.60
1:B:3824:LYS:HZ1	1:B:3908:GLY:HA3	1.66	0.60
1:B:4750:ILE:O	1:B:4756:ARG:NH1	2.35	0.60
1:D:59:PRO:HD2	1:D:304:ALA:HB1	1.84	0.60
1:D:4897:ILE:O	1:D:4901:ILE:HG22	2.01	0.60
1:C:1224:GLU:OE2	1:C:1827:ARG:NH1	2.34	0.60
1:C:1225:PRO:HB2	1:C:1228:ILE:HB	1.83	0.60
1:C:3824:LYS:HZ1	1:C:3908:GLY:HA3	1.67	0.60
1:A:34:LYS:N	1:A:53:SER:OG	2.28	0.60
1:A:1140:GLY:HA2	1:D:3479:ALA:HB1	1.83	0.60
2:G:48:PHE:HZ	2:G:63:VAL:HG11	1.67	0.60
2:F:76:ILE:O	2:F:96:THR:OG1	2.19	0.60
1:B:446:GLN:HE21	1:B:521:LEU:HD13	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1294:PRO:HB3	1:B:1549:PHE:HE1	1.65	0.60
1:B:2140:ARG:HH22	1:B:2201:LEU:HD23	1.66	0.60
1:B:3980:LEU:HD23	1:B:4030:LEU:HD21	1.84	0.60
1:B:4680:LYS:O	1:B:4685:GLY:N	2.34	0.60
1:B:4989:MET:HA	1:B:4989:MET:HE3	1.82	0.60
1:D:2949:SER:O	1:D:2952:GLU:HG3	2.02	0.60
1:D:3539:ARG:HH12	1:D:3549:VAL:HA	1.64	0.60
1:D:4031:LEU:HG	1:D:4044:MET:HE1	1.82	0.60
1:C:419:ASP:OD1	1:C:493:ARG:NH1	2.35	0.60
1:C:2949:SER:O	1:C:2952:GLU:HG3	2.02	0.60
1:C:3206:LEU:HB3	1:C:3246:LEU:HB2	1.83	0.60
1:A:1247:PRO:HA	1:A:1598:GLN:HG2	1.83	0.60
1:A:2699:ALA:HB1	1:A:3001:ILE:HD11	1.83	0.60
1:A:2949:SER:O	1:A:2952:GLU:HG3	2.02	0.60
2:E:52:LYS:N	2:E:52:LYS:HD2	2.17	0.60
1:B:1225:PRO:HB2	1:B:1228:ILE:HB	1.84	0.60
1:D:880:GLU:OE2	1:D:952:LYS:NZ	2.34	0.60
1:D:1247:PRO:HA	1:D:1598:GLN:HG2	1.83	0.60
1:D:2165:LEU:HD13	1:D:2178:MET:HB3	1.84	0.60
1:D:3206:LEU:HD13	1:D:3246:LEU:HD13	1.84	0.60
1:D:4240:ASP:OD1	1:D:4675:LYS:NZ	2.34	0.60
1:D:4242:ILE:O	1:D:4246:GLN:NE2	2.33	0.60
1:D:4768:LEU:HA	1:D:4771:ILE:HD12	1.84	0.60
1:C:1648:MET:SD	1:C:1656:ARG:NH2	2.75	0.60
1:C:1743[A]:ARG:NH2	1:C:1967:ASP:OD2	2.32	0.60
1:C:3395:ARG:O	1:C:3399:SER:N	2.34	0.60
1:A:2165:LEU:HD13	1:A:2178:MET:HB3	1.84	0.60
1:B:3057:PHE:HB3	1:B:3060:ASP:HB2	1.82	0.60
1:B:3206:LEU:HB3	1:B:3246:LEU:HB2	1.83	0.60
1:D:2103:VAL:O	1:D:2107:GLN:NE2	2.34	0.60
1:C:73:LEU:O	1:C:106:ALA:N	2.33	0.60
1:C:1271:ARG:NH2	1:C:1560:ASN:OD1	2.34	0.60
1:C:2500:ALA:HB2	1:C:2553:TYR:HD1	1.65	0.60
1:C:2699:ALA:HB1	1:C:3001:ILE:HD11	1.83	0.60
1:A:937:CYS:HA	1:A:1054:GLU:O	2.02	0.60
1:A:2655:TYR:HD2	1:A:2709:ALA:HB1	1.67	0.60
1:A:3895:HIS:NE2	1:A:3970:GLN:OE1	2.34	0.60
2:F:52:LYS:N	2:F:52:LYS:HD2	2.17	0.60
1:B:1247:PRO:HA	1:B:1598:GLN:HG2	1.83	0.60
1:B:2165:LEU:HD13	1:B:2178:MET:HB3	1.84	0.60
1:B:2519:LEU:HD22	1:B:2575:ARG:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3675:ASP:OD1	1:D:3676:ASP:N	2.35	0.60
1:D:3731:LYS:HA	1:D:3734:HIS:CE1	2.37	0.60
1:C:59:PRO:HD2	1:C:304:ALA:HB1	1.84	0.60
1:A:59:PRO:HD2	1:A:304:ALA:HB1	1.84	0.60
1:A:103:TYR:HD2	1:A:161:GLU:HB3	1.67	0.60
1:A:1101:ARG:HG3	1:A:1125:ASN:HB2	1.84	0.60
1:A:1995:THR:O	1:A:1999:ARG:HG2	2.02	0.60
1:B:2949:SER:O	1:B:2952:GLU:HG3	2.02	0.60
1:B:3376:GLU:HB3	1:B:3380:ARG:NH1	2.16	0.60
1:B:4661:TYR:OH	1:B:4788:SER:OG	2.15	0.60
1:D:340:LYS:HB3	1:D:344:SER:HB2	1.84	0.60
1:D:1240:LYS:O	1:D:1603:VAL:HA	2.02	0.60
1:D:1648:MET:SD	1:D:1656:ARG:NH2	2.75	0.60
1:D:3395:ARG:O	1:D:3399:SER:N	2.34	0.60
1:D:4885:PHE:O	1:D:4889:VAL:HG22	2.02	0.60
1:C:880:GLU:OE2	1:C:952:LYS:NZ	2.34	0.60
1:C:2447:LYS:HD2	1:C:2450:ALA:H	1.65	0.60
1:C:2519:LEU:HD22	1:C:2575:ARG:HG2	1.82	0.60
1:C:2655:TYR:HD2	1:C:2709:ALA:HB1	1.67	0.60
1:C:3206:LEU:HD13	1:C:3246:LEU:HD13	1.84	0.60
1:A:365:LYS:HE2	1:A:369:LEU:HD21	1.83	0.59
1:A:1271:ARG:NH2	1:A:1560:ASN:OD1	2.34	0.59
2:E:54:GLU:HG2	2:E:55:VAL:HG23	1.84	0.59
1:B:365:LYS:HA	1:B:368:ARG:HG2	1.84	0.59
1:B:1995:THR:O	1:B:1999:ARG:HG2	2.02	0.59
1:B:3675:ASP:OD1	1:B:3676:ASP:N	2.35	0.59
1:D:419:ASP:OD1	1:D:493:ARG:NH1	2.35	0.59
1:D:2683:PHE:HE2	1:D:2966:TRP:HE1	1.50	0.59
1:D:3183:VAL:HG22	1:D:3187:ARG:HG3	1.83	0.59
1:C:1163:THR:HG22	1:C:1168:VAL:HG22	1.84	0.59
1:C:1995:THR:O	1:C:1999:ARG:HG2	2.02	0.59
1:C:2165:LEU:HD13	1:C:2178:MET:HB3	1.84	0.59
1:C:4691:GLN:OE1	1:C:4692:PRO:HD2	2.02	0.59
1:A:2140:ARG:HH22	1:A:2201:LEU:HD23	1.66	0.59
1:A:3539:ARG:HH12	1:A:3549:VAL:HA	1.64	0.59
1:A:4897:ILE:O	1:A:4901:ILE:HG22	2.01	0.59
1:B:73:LEU:O	1:B:106:ALA:N	2.33	0.59
1:B:639:ASN:N	1:B:678:GLN:OE1	2.33	0.59
1:B:645:ARG:HH21	1:B:826:ILE:HG23	1.67	0.59
1:D:365:LYS:HE2	1:D:369:LEU:HD21	1.83	0.59
1:D:425:PRO:HA	1:D:506:TYR:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:971:ASP:O	1:D:974:HIS:ND1	2.36	0.59
1:D:2621:HIS:HA	1:D:2624:ARG:HE	1.66	0.59
1:C:2683:PHE:HE2	1:C:2966:TRP:HE1	1.50	0.59
1:C:3180:ASN:OD1	1:C:3181:THR:N	2.35	0.59
1:A:4885:PHE:O	1:A:4889:VAL:HG22	2.02	0.59
2:E:48:PHE:HZ	2:E:63:VAL:HG11	1.67	0.59
2:G:18:ARG:HH11	2:G:51:GLY:HA3	1.65	0.59
1:D:645:ARG:HH21	1:D:826:ILE:HG23	1.67	0.59
1:D:937:CYS:HA	1:D:1054:GLU:O	2.02	0.59
1:D:4152:GLU:OE1	1:D:4192:ARG:NH1	2.31	0.59
1:C:1660:GLN:HE21	1:C:1707:LEU:HG	1.67	0.59
1:C:3376:GLU:HB3	1:C:3380:ARG:NH1	2.16	0.59
1:A:2522:LEU:HD23	1:A:2526:PHE:HD2	1.68	0.59
1:A:3206:LEU:HD13	1:A:3246:LEU:HD13	1.84	0.59
1:A:3731:LYS:HA	1:A:3734:HIS:CE1	2.37	0.59
1:A:4240:ASP:OD1	1:A:4675:LYS:NZ	2.34	0.59
1:A:4680:LYS:O	1:A:4685:GLY:N	2.34	0.59
2:H:48:PHE:HZ	2:H:63:VAL:HG11	1.67	0.59
2:H:54:GLU:HG2	2:H:55:VAL:HG23	1.84	0.59
2:F:48:PHE:HZ	2:F:63:VAL:HG11	1.67	0.59
1:B:103:TYR:HD2	1:B:161:GLU:HB3	1.67	0.59
1:B:2683:PHE:HE2	1:B:2966:TRP:HE1	1.50	0.59
1:B:3183:VAL:HG22	1:B:3187:ARG:HG3	1.83	0.59
1:B:3206:LEU:HD13	1:B:3246:LEU:HD13	1.84	0.59
1:B:3997:ALA:HA	1:B:4000:MET:SD	2.42	0.59
1:B:4240:ASP:OD1	1:B:4675:LYS:NZ	2.34	0.59
1:D:1660:GLN:HE21	1:D:1707:LEU:HG	1.67	0.59
1:C:1555:LEU:HD12	1:C:1556:PRO:HD2	1.84	0.59
1:C:3284:TRP:HB3	1:C:3305:THR:HG21	1.83	0.59
1:C:3731:LYS:HA	1:C:3734:HIS:CE1	2.37	0.59
1:A:639:ASN:N	1:A:678:GLN:OE1	2.33	0.59
1:A:971:ASP:O	1:A:974:HIS:ND1	2.36	0.59
1:A:1240:LYS:O	1:A:1603:VAL:HA	2.02	0.59
1:A:1648:MET:SD	1:A:1656:ARG:NH2	2.75	0.59
1:A:3675:ASP:OD1	1:A:3676:ASP:N	2.35	0.59
1:A:3997:ALA:HA	1:A:4000:MET:SD	2.43	0.59
1:A:4691:GLN:OE1	1:A:4692:PRO:HD2	2.02	0.59
2:G:52:LYS:HD2	2:G:52:LYS:N	2.17	0.59
1:B:419:ASP:OD1	1:B:493:ARG:NH1	2.35	0.59
1:B:1555:LEU:HD12	1:B:1556:PRO:HD2	1.84	0.59
1:B:2585:THR:HG22	1:B:2588:ARG:HH21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2699:ALA:HB1	1:B:3001:ILE:HD11	1.83	0.59
1:B:3731:LYS:HA	1:B:3734:HIS:CE1	2.37	0.59
1:D:1101:ARG:HG3	1:D:1125:ASN:HB2	1.84	0.59
1:D:1225:PRO:HB2	1:D:1228:ILE:HB	1.84	0.59
1:D:3180:ASN:OD1	1:D:3181:THR:N	2.35	0.59
1:D:3350:ARG:O	1:D:3415:TYR:OH	2.17	0.59
1:D:4750:ILE:O	1:D:4756:ARG:NH1	2.35	0.59
1:C:645:ARG:HH21	1:C:826:ILE:HG23	1.67	0.59
1:A:181:HIS:ND1	1:A:198:THR:OG1	2.32	0.59
1:A:1555:LEU:HD12	1:A:1556:PRO:HD2	1.84	0.59
1:A:1660:GLN:HE21	1:A:1707:LEU:HG	1.67	0.59
1:A:2466:LEU:HD21	1:A:2505:PHE:HD1	1.68	0.59
1:A:3206:LEU:HB3	1:A:3246:LEU:HB2	1.83	0.59
1:B:971:ASP:O	1:B:974:HIS:ND1	2.36	0.59
1:B:3771:HIS:NE2	1:B:3811:GLU:OE2	2.35	0.59
1:B:4248:ALA:HA	1:B:4251:ILE:HG12	1.85	0.59
1:D:1163:THR:HG22	1:D:1168:VAL:HG22	1.84	0.59
1:D:1995:THR:O	1:D:1999:ARG:HG2	2.02	0.59
1:D:2522:LEU:HD23	1:D:2526:PHE:HD2	1.68	0.59
1:D:3467:MET:HA	1:D:3467:MET:HE3	1.84	0.59
1:C:365:LYS:HA	1:C:368:ARG:HG2	1.84	0.59
1:C:2621:HIS:HA	1:C:2624:ARG:HE	1.66	0.59
1:C:3997:ALA:HA	1:C:4000:MET:SD	2.43	0.59
1:A:425:PRO:HA	1:A:506:TYR:HA	1.84	0.59
1:A:645:ARG:HH21	1:A:826:ILE:HG23	1.67	0.59
1:A:2410:PRO:HB2	1:A:2413:GLU:HA	1.82	0.59
1:A:2585:THR:HG22	1:A:2588:ARG:HH21	1.68	0.59
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.65	0.59
1:B:3730:ALA:O	1:B:3734:HIS:ND1	2.36	0.59
1:B:4885:PHE:O	1:B:4889:VAL:HG22	2.02	0.59
1:D:1036:ARG:HA	1:D:1039:LEU:HD12	1.85	0.59
1:D:4691:GLN:OE1	1:D:4692:PRO:HD2	2.02	0.59
1:C:2231:SER:HA	1:C:2234:ARG:HG3	1.85	0.59
1:A:365:LYS:HA	1:A:368:ARG:HG2	1.84	0.59
1:A:606:LEU:HD22	1:A:621:ILE:HD11	1.84	0.59
1:A:1170:MET:HB3	1:D:3479:ALA:HB3	1.84	0.59
1:A:3183:VAL:HG22	1:A:3187:ARG:HG3	1.83	0.59
1:A:3395:ARG:O	1:A:3399:SER:N	2.34	0.59
1:A:3434:LEU:O	1:A:3438:VAL:HG12	2.03	0.59
1:A:4768:LEU:HA	1:A:4771:ILE:HD12	1.84	0.59
2:G:76:ILE:O	2:G:96:THR:OG1	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:PRO:HD2	1:B:304:ALA:HB1	1.84	0.59
1:B:1990:GLU:OE1	1:B:1993:ARG:NH2	2.32	0.59
1:B:2522:LEU:HD23	1:B:2526:PHE:HD2	1.68	0.59
1:C:3183:VAL:HG22	1:C:3187:ARG:HG3	1.83	0.59
1:C:3675:ASP:OD1	1:C:3676:ASP:N	2.35	0.59
1:C:4097:MET:HA	1:C:4097:MET:HE3	1.85	0.59
1:A:341:TYR:HA	1:A:390:LEU:HD11	1.85	0.59
1:A:1087:ARG:NH2	1:A:1222:GLY:O	2.36	0.59
1:A:1163:THR:HG22	1:A:1168:VAL:HG22	1.84	0.59
1:A:2354:VAL:HG11	1:A:2453:ILE:HD12	1.84	0.59
2:F:54:GLU:HG2	2:F:55:VAL:HG23	1.84	0.59
1:B:848:HIS:O	1:B:852:VAL:HG23	2.03	0.59
1:B:1087:ARG:NH2	1:B:1222:GLY:O	2.36	0.59
1:D:446:GLN:HE21	1:D:521:LEU:HD13	1.66	0.59
1:D:1087:ARG:NH2	1:D:1222:GLY:O	2.36	0.59
1:D:2354:VAL:HG11	1:D:2453:ILE:HD12	1.84	0.59
1:D:3568:SER:HA	1:D:3571:TRP:CD1	2.38	0.59
1:D:4162:ASN:OD1	1:D:4163:PHE:N	2.36	0.59
1:C:446:GLN:HE21	1:C:521:LEU:HD13	1.66	0.59
1:C:937:CYS:HA	1:C:1054:GLU:O	2.02	0.59
1:C:2585:THR:HG22	1:C:2588:ARG:HH21	1.68	0.59
1:C:4750:ILE:O	1:C:4756:ARG:NH1	2.35	0.59
1:C:4768:LEU:HA	1:C:4771:ILE:HD12	1.84	0.59
1:A:1712:TYR:HD2	1:A:1844:LEU:HD13	1.68	0.59
1:A:3066:ASN:HA	1:A:3069:HIS:HD2	1.68	0.59
1:A:3519:PRO:HB3	1:B:1220:GLN:HG3	1.85	0.59
1:B:1648:MET:SD	1:B:1656:ARG:NH2	2.75	0.59
1:B:1660:GLN:HE21	1:B:1707:LEU:HG	1.67	0.59
1:B:3644:LEU:HD12	1:B:3645:PRO:HD2	1.85	0.59
1:D:2585:THR:HG22	1:D:2588:ARG:HH21	1.67	0.59
1:C:1036:ARG:HA	1:C:1039:LEU:HD12	1.85	0.59
1:C:1247:PRO:HA	1:C:1598:GLN:HG2	1.83	0.59
1:C:3467:MET:HA	1:C:3467:MET:HE3	1.84	0.59
1:B:425:PRO:HA	1:B:506:TYR:HA	1.84	0.58
1:B:492:ASP:O	1:B:496:VAL:HG13	2.03	0.58
1:B:1867:GLU:OE2	1:B:1928:GLN:NE2	2.29	0.58
1:B:3078:ARG:NE	1:B:3155:ASP:OD2	2.36	0.58
1:D:606:LEU:HD22	1:D:621:ILE:HD11	1.84	0.58
1:D:2466:LEU:HD21	1:D:2505:PHE:HD1	1.67	0.58
1:D:2624:ARG:HD2	1:D:2911:LEU:HA	1.85	0.58
1:D:2655:TYR:HD2	1:D:2709:ALA:HB1	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2699:ALA:HB1	1:D:3001:ILE:HD11	1.83	0.58
1:D:3066:ASN:HA	1:D:3069:HIS:HD2	1.68	0.58
1:C:606:LEU:HD22	1:C:621:ILE:HD11	1.84	0.58
1:C:971:ASP:O	1:C:974:HIS:ND1	2.36	0.58
1:C:3568:SER:HA	1:C:3571:TRP:CD1	2.38	0.58
1:A:2683:PHE:HE2	1:A:2966:TRP:HE1	1.50	0.58
1:A:3730:ALA:O	1:A:3734:HIS:ND1	2.36	0.58
1:A:4097:MET:HA	1:A:4097:MET:HE3	1.85	0.58
1:B:341:TYR:HA	1:B:390:LEU:HD11	1.85	0.58
1:B:954:LYS:NZ	1:B:966:LYS:O	2.36	0.58
1:B:1240:LYS:O	1:B:1603:VAL:HA	2.02	0.58
1:B:3223:SER:OG	1:B:3226:GLU:OE1	2.13	0.58
1:D:103:TYR:HD2	1:D:161:GLU:HB3	1.67	0.58
1:D:771:PHE:HB3	1:D:1472:VAL:HG23	1.85	0.58
1:D:1743[A]:ARG:NH2	1:D:1967:ASP:OD2	2.32	0.58
1:D:3286:GLU:OE2	1:D:3287:ARG:NH1	2.37	0.58
1:C:1240:LYS:O	1:C:1603:VAL:HA	2.02	0.58
1:A:2624:ARG:HD2	1:A:2911:LEU:HA	1.85	0.58
1:A:4162:ASN:OD1	1:A:4163:PHE:N	2.36	0.58
2:G:54:GLU:HG2	2:G:55:VAL:HG23	1.84	0.58
1:B:2466:LEU:HD21	1:B:2505:PHE:HD1	1.68	0.58
1:B:3066:ASN:HA	1:B:3069:HIS:HD2	1.68	0.58
1:D:848:HIS:O	1:D:852:VAL:HG23	2.03	0.58
1:D:4248:ALA:HA	1:D:4251:ILE:HG12	1.85	0.58
1:C:103:TYR:HD2	1:C:161:GLU:HB3	1.67	0.58
1:C:954:LYS:NZ	1:C:966:LYS:O	2.36	0.58
1:C:4885:PHE:O	1:C:4889:VAL:HG22	2.02	0.58
1:C:5033:GLU:O	1:C:5037:SER:OG	2.21	0.58
1:A:340:LYS:HB3	1:A:344:SER:HB2	1.84	0.58
1:A:771:PHE:HB3	1:A:1472:VAL:HG23	1.85	0.58
1:B:2231:SER:HA	1:B:2234:ARG:HG3	1.85	0.58
1:B:2624:ARG:HD2	1:B:2911:LEU:HA	1.85	0.58
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.38	0.58
1:B:3434:LEU:O	1:B:3438:VAL:HG12	2.03	0.58
1:B:4097:MET:HA	1:B:4097:MET:HE3	1.85	0.58
1:D:365:LYS:HA	1:D:368:ARG:HG2	1.84	0.58
1:D:1712:TYR:HD2	1:D:1844:LEU:HD13	1.68	0.58
1:C:340:LYS:HB3	1:C:344:SER:HB2	1.84	0.58
1:C:455:PRO:HB3	1:C:467:LYS:HD3	1.86	0.58
1:C:2624:ARG:HD2	1:C:2911:LEU:HA	1.85	0.58
1:A:954:LYS:NZ	1:A:966:LYS:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1252:HIS:O	1:A:1275:ARG:NH1	2.37	0.58
1:A:2231:SER:HA	1:A:2234:ARG:HG3	1.85	0.58
1:A:3467:MET:HA	1:A:3467:MET:HE3	1.84	0.58
1:B:1036:ARG:HA	1:B:1039:LEU:HD12	1.85	0.58
1:B:2655:TYR:HD2	1:B:2709:ALA:HB1	1.67	0.58
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.86	0.58
1:B:3286:GLU:OE2	1:B:3287:ARG:NH1	2.37	0.58
1:D:341:TYR:HA	1:D:390:LEU:HD11	1.85	0.58
1:D:3730:ALA:O	1:D:3734:HIS:ND1	2.36	0.58
1:C:425:PRO:HA	1:C:506:TYR:HA	1.84	0.58
1:C:1087:ARG:NH2	1:C:1222:GLY:O	2.36	0.58
1:C:3223:SER:OG	1:C:3226:GLU:OE1	2.13	0.58
1:C:3644:LEU:HD12	1:C:3645:PRO:HD2	1.85	0.58
1:C:3730:ALA:O	1:C:3734:HIS:ND1	2.36	0.58
1:A:848:HIS:O	1:A:852:VAL:HG23	2.03	0.58
1:A:1225:PRO:HB2	1:A:1228:ILE:HB	1.84	0.58
1:B:1101:ARG:HG3	1:B:1125:ASN:HB2	1.84	0.58
1:B:2289:ALA:O	1:B:2291:GLN:NE2	2.31	0.58
1:D:455:PRO:HB3	1:D:467:LYS:HD3	1.86	0.58
1:D:3003:LEU:HB2	1:D:3004:PRO:HD3	1.86	0.58
1:D:3997:ALA:HA	1:D:4000:MET:SD	2.42	0.58
1:C:1101:ARG:HG3	1:C:1125:ASN:HB2	1.84	0.58
1:C:3434:LEU:O	1:C:3438:VAL:HG12	2.03	0.58
1:C:3771:HIS:NE2	1:C:3811:GLU:OE2	2.35	0.58
1:C:4162:ASN:OD1	1:C:4163:PHE:N	2.36	0.58
1:C:4211:LYS:HB3	1:C:4215:ARG:HH22	1.69	0.58
1:A:1106:ARG:NH1	1:A:1187:GLY:O	2.37	0.58
1:A:2884:ASN:O	1:A:2888:ARG:HD3	2.04	0.58
1:A:3051:ARG:NH2	1:A:3101:GLU:OE2	2.37	0.58
1:A:3078:ARG:NE	1:A:3155:ASP:OD2	2.36	0.58
1:A:3771:HIS:NE2	1:A:3811:GLU:OE2	2.35	0.58
1:B:1743[B]:ARG:NH2	1:B:1967:ASP:OD2	2.32	0.58
1:B:2974:ILE:HD13	1:B:3049:LEU:HG	1.85	0.58
1:B:3180:ASN:OD1	1:B:3181:THR:N	2.35	0.58
1:B:4768:LEU:HA	1:B:4771:ILE:HD12	1.84	0.58
1:D:492:ASP:O	1:D:496:VAL:HG13	2.03	0.58
1:D:4680:LYS:O	1:D:4685:GLY:N	2.34	0.58
1:C:2522:LEU:HD23	1:C:2526:PHE:HD2	1.68	0.58
1:C:2884:ASN:O	1:C:2888:ARG:HD3	2.04	0.58
1:A:2249:SER:O	1:A:2253:HIS:ND1	2.37	0.58
1:A:3286:GLU:OE2	1:A:3287:ARG:NH1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4248:ALA:HA	1:A:4251:ILE:HG12	1.85	0.58
1:B:44:ASN:ND2	1:B:46:LEU:O	2.37	0.58
1:B:606:LEU:HD22	1:B:621:ILE:HD11	1.84	0.58
1:B:3568:SER:HA	1:B:3571:TRP:CD1	2.38	0.58
1:C:719:LEU:HD23	1:C:735:GLN:HG2	1.86	0.58
1:A:455:PRO:HB3	1:A:467:LYS:HD3	1.86	0.58
1:A:3180:ASN:OD1	1:A:3181:THR:N	2.35	0.58
1:A:4661:TYR:OH	1:A:4788:SER:OG	2.15	0.58
1:B:1712:TYR:HD2	1:B:1844:LEU:HD13	1.68	0.58
1:B:3895:HIS:NE2	1:B:3970:GLN:OE1	2.34	0.58
1:B:4162:ASN:OD1	1:B:4163:PHE:N	2.36	0.58
1:D:719:LEU:HD23	1:D:735:GLN:HG2	1.86	0.58
1:D:1106:ARG:NH1	1:D:1187:GLY:O	2.37	0.58
1:D:1555:LEU:HD12	1:D:1556:PRO:HD2	1.84	0.58
1:D:2974:ILE:HD13	1:D:3049:LEU:HG	1.85	0.58
1:D:3348:ARG:O	1:D:3350:ARG:NH2	2.37	0.58
1:D:4097:MET:HA	1:D:4097:MET:HE3	1.85	0.58
1:D:4708:THR:HG22	1:D:4774:LYS:HB3	1.85	0.58
1:C:44:ASN:ND2	1:C:46:LEU:O	2.37	0.58
1:C:655:GLY:HA3	1:C:852:VAL:HG13	1.86	0.58
1:C:1160:ILE:O	1:C:1177:THR:OG1	2.22	0.58
1:C:3591:LYS:HA	1:C:3594:ARG:CD	2.34	0.58
1:A:2512:ILE:HD11	1:A:2518:LEU:HB2	1.86	0.58
1:A:3003:LEU:HB2	1:A:3004:PRO:HD3	1.86	0.58
1:A:3568:SER:HA	1:A:3571:TRP:CD1	2.38	0.58
1:A:3591:LYS:HA	1:A:3594:ARG:CD	2.34	0.58
1:A:3644:LEU:HD12	1:A:3645:PRO:HD2	1.85	0.58
1:A:5033:GLU:O	1:A:5037:SER:OG	2.21	0.58
1:D:655:GLY:HA3	1:D:852:VAL:HG13	1.86	0.58
1:D:2231:SER:HA	1:D:2234:ARG:HG3	1.85	0.58
1:D:4189:ARG:HB2	1:D:4189:ARG:NH1	2.19	0.58
1:C:771:PHE:HB3	1:C:1472:VAL:HG23	1.85	0.58
1:C:2466:LEU:HD21	1:C:2505:PHE:HD1	1.68	0.58
1:C:3286:GLU:OE2	1:C:3287:ARG:NH1	2.36	0.58
1:C:4248:ALA:HA	1:C:4251:ILE:HG12	1.85	0.58
1:A:719:LEU:HD23	1:A:735:GLN:HG2	1.86	0.57
1:A:3822:ASP:OD1	1:A:3823:LYS:N	2.37	0.57
1:A:4708:THR:HG22	1:A:4774:LYS:HB3	1.85	0.57
1:A:4721:LYS:HE2	1:A:4741:LEU:HB3	1.86	0.57
1:A:4898:GLY:HA3	1:D:4892:ARG:HH12	1.67	0.57
1:B:655:GLY:HA3	1:B:852:VAL:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:771:PHE:HB3	1:B:1472:VAL:HG23	1.85	0.57
1:D:3078:ARG:NE	1:D:3155:ASP:OD2	2.36	0.57
1:D:3591:LYS:HA	1:D:3594:ARG:CD	2.34	0.57
1:C:3003:LEU:HB2	1:C:3004:PRO:HD3	1.86	0.57
1:C:3066:ASN:HA	1:C:3069:HIS:HD2	1.68	0.57
1:C:3634:ALA:O	1:C:3638:MET:HG3	2.04	0.57
1:A:3349:ALA:HB3	1:A:3415:TYR:HE1	1.69	0.57
1:B:179:TYR:N	1:B:194:SER:O	2.36	0.57
1:B:1163:THR:HG22	1:B:1168:VAL:HG22	1.84	0.57
1:B:2512:ILE:HD11	1:B:2518:LEU:HB2	1.86	0.57
1:B:2620:GLN:HA	1:B:2623:LEU:HB2	1.86	0.57
1:B:3349:ALA:HB3	1:B:3415:TYR:HE1	1.69	0.57
1:B:3634:ALA:O	1:B:3638:MET:HG3	2.04	0.57
1:B:4211:LYS:HB3	1:B:4215:ARG:HH22	1.69	0.57
1:D:244:LEU:HB3	1:D:375:LYS:HZ3	1.70	0.57
1:D:2512:ILE:HD11	1:D:2518:LEU:HB2	1.86	0.57
1:D:3051:ARG:NH2	1:D:3101:GLU:OE2	2.37	0.57
1:D:4211:LYS:HB3	1:D:4215:ARG:HH22	1.69	0.57
1:C:3349:ALA:HB3	1:C:3415:TYR:HE1	1.70	0.57
1:C:4229:GLU:OE1	1:C:4229:GLU:N	2.36	0.57
1:A:44:ASN:ND2	1:A:46:LEU:O	2.37	0.57
1:A:492:ASP:O	1:A:496:VAL:HG13	2.03	0.57
1:A:4229:GLU:OE1	1:A:4229:GLU:N	2.36	0.57
1:B:3051:ARG:NH2	1:B:3101:GLU:OE2	2.37	0.57
1:B:3591:LYS:HA	1:B:3594:ARG:CD	2.34	0.57
1:B:4189:ARG:HB2	1:B:4189:ARG:NH1	2.19	0.57
1:D:181:HIS:ND1	1:D:198:THR:OG1	2.32	0.57
1:D:2884:ASN:O	1:D:2888:ARG:HD3	2.04	0.57
1:D:3349:ALA:HB3	1:D:3415:TYR:HE1	1.69	0.57
1:C:179:TYR:N	1:C:194:SER:O	2.36	0.57
1:C:341:TYR:HA	1:C:390:LEU:HD11	1.85	0.57
1:C:2355:ARG:HH12	1:C:2453:ILE:HD11	1.70	0.57
1:C:2512:ILE:HD11	1:C:2518:LEU:HB2	1.86	0.57
1:C:3822:ASP:OD1	1:C:3823:LYS:N	2.37	0.57
1:A:655:GLY:HA3	1:A:852:VAL:HG13	1.86	0.57
1:A:3723:MET:N	1:A:3723:MET:HE2	2.20	0.57
1:B:340:LYS:HB3	1:B:344:SER:HB2	1.84	0.57
1:B:2884:ASN:O	1:B:2888:ARG:HD3	2.04	0.57
1:B:5033:GLU:O	1:B:5037:SER:OG	2.21	0.57
1:D:3434:LEU:O	1:D:3438:VAL:HG12	2.03	0.57
1:C:492:ASP:O	1:C:496:VAL:HG13	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:848:HIS:O	1:C:852:VAL:HG23	2.03	0.57
1:C:1106:ARG:NH1	1:C:1187:GLY:O	2.37	0.57
1:C:3348:ARG:O	1:C:3350:ARG:NH2	2.37	0.57
1:A:3411:LEU:HD23	1:A:3414:ARG:HH22	1.69	0.57
1:B:455:PRO:HB3	1:B:467:LYS:HD3	1.86	0.57
1:B:2098:VAL:HG13	1:B:2101:MET:HE3	1.85	0.57
1:B:2355:ARG:HH12	1:B:2453:ILE:HD11	1.70	0.57
1:D:999:ASP:O	1:D:1003:GLN:HG3	2.04	0.57
1:D:1160:ILE:O	1:D:1177:THR:OG1	2.22	0.57
1:D:1685:LEU:HD21	1:D:1714:LEU:HD11	1.87	0.57
1:D:2098:VAL:HG13	1:D:2101:MET:HE3	1.85	0.57
1:C:2974:ILE:HD13	1:C:3049:LEU:HG	1.85	0.57
1:C:3930:ILE:HG23	1:C:3951:PHE:HE1	1.70	0.57
1:A:999:ASP:O	1:A:1003:GLN:HG3	2.04	0.57
1:A:1036:ARG:HA	1:A:1039:LEU:HD12	1.85	0.57
1:B:3376:GLU:HB3	1:B:3380:ARG:HH12	1.70	0.57
1:B:3467:MET:HA	1:B:3467:MET:HE3	1.84	0.57
1:B:3822:ASP:OD1	1:B:3823:LYS:N	2.37	0.57
1:D:44:ASN:ND2	1:D:46:LEU:O	2.37	0.57
1:D:3322:ILE:O	1:D:3326:ASN:ND2	2.38	0.57
1:D:4721:LYS:HE2	1:D:4741:LEU:HB3	1.86	0.57
1:C:1685:LEU:HD21	1:C:1714:LEU:HD11	1.87	0.57
1:C:2506:LEU:O	1:C:2511:GLY:N	2.35	0.57
1:C:2620:GLN:HA	1:C:2623:LEU:HB2	1.86	0.57
1:A:224:HIS:O	1:B:155:LYS:NZ	2.38	0.57
1:A:3376:GLU:HB3	1:A:3380:ARG:HH12	1.70	0.57
1:A:3539:ARG:HH12	1:A:3552:PHE:HB3	1.70	0.57
1:A:3634:ALA:O	1:A:3638:MET:HG3	2.04	0.57
1:B:683:ARG:O	1:B:781:VAL:HA	2.05	0.57
1:B:1263:THR:OG1	1:B:1265:ASP:OD1	2.22	0.57
1:B:4721:LYS:HE2	1:B:4741:LEU:HB3	1.86	0.57
1:D:2355:ARG:HH12	1:D:2453:ILE:HD11	1.70	0.57
1:D:3395:ARG:HD2	1:D:3450:ASN:HD21	1.70	0.57
1:D:3930:ILE:HG23	1:D:3951:PHE:HE1	1.70	0.57
1:C:3411:LEU:HD23	1:C:3414:ARG:HH22	1.69	0.57
1:D:747:CYS:SG	1:D:805:PRO:HG3	2.45	0.57
1:D:3771:HIS:NE2	1:D:3811:GLU:OE2	2.35	0.57
1:C:1252:HIS:O	1:C:1275:ARG:NH1	2.37	0.57
1:C:3723:MET:HE2	1:C:3723:MET:N	2.20	0.57
1:A:683:ARG:HB3	1:A:707:VAL:HG12	1.87	0.57
1:A:1160:ILE:O	1:A:1177:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1106:ARG:NH1	1:B:1187:GLY:O	2.37	0.57
1:B:3236:VAL:HA	1:B:3239:MET:HG2	1.87	0.57
1:D:73:LEU:O	1:D:106:ALA:N	2.33	0.57
1:D:1251:GLU:N	1:D:1251:GLU:OE1	2.38	0.57
1:D:2249:SER:O	1:D:2253:HIS:ND1	2.37	0.57
1:D:3824:LYS:HZ1	1:D:3908:GLY:HA3	1.69	0.57
1:D:3944:GLU:OE2	1:D:3947:GLY:N	2.38	0.57
1:C:683:ARG:O	1:C:781:VAL:HA	2.05	0.57
1:C:1944:GLU:OE2	1:C:2126:ARG:NH1	2.38	0.57
1:A:818:ARG:NH2	1:A:1027:LEU:O	2.22	0.57
1:A:2098:VAL:HG13	1:A:2101:MET:HE3	1.85	0.57
1:A:2772:GLN:O	1:B:1506:GLN:NE2	2.38	0.57
1:A:2974:ILE:HD13	1:A:3049:LEU:HG	1.85	0.57
1:A:3348:ARG:O	1:A:3350:ARG:NH2	2.37	0.57
1:A:4189:ARG:HB2	1:A:4189:ARG:NH1	2.19	0.57
1:B:1944:GLU:OE2	1:B:2126:ARG:NH1	2.38	0.57
1:B:4184:MET:HE3	1:B:4188:ARG:HA	1.87	0.57
1:D:1252:HIS:O	1:D:1275:ARG:NH1	2.37	0.57
1:D:1961:PHE:HA	1:D:1964:ARG:HD2	1.87	0.57
1:D:3398:PHE:O	1:D:3402:CYS:N	2.34	0.57
1:D:3822:ASP:OD1	1:D:3823:LYS:N	2.37	0.57
1:C:663:TYR:CE1	1:C:745:SER:HB2	2.36	0.57
1:C:999:ASP:O	1:C:1003:GLN:HG3	2.05	0.57
1:C:1743[B]:ARG:NH2	1:C:1967:ASP:OD2	2.32	0.57
1:C:3051:ARG:NH2	1:C:3101:GLU:OE2	2.37	0.57
1:A:2620:GLN:HA	1:A:2623:LEU:HB2	1.86	0.56
1:A:4901:ILE:HG23	1:A:4913:ARG:NH2	2.20	0.56
1:B:3395:ARG:O	1:B:3399:SER:N	2.34	0.56
1:B:3455:GLU:HA	1:B:3458:PHE:CE1	2.40	0.56
1:B:3788:GLY:HA2	1:B:3835:LEU:HG	1.87	0.56
1:D:683:ARG:O	1:D:781:VAL:HA	2.05	0.56
1:D:954:LYS:NZ	1:D:966:LYS:O	2.36	0.56
1:D:3376:GLU:HB3	1:D:3380:ARG:HH12	1.70	0.56
1:D:3644:LEU:HD12	1:D:3645:PRO:HD2	1.85	0.56
1:D:3788:GLY:HA2	1:D:3835:LEU:HG	1.87	0.56
1:C:2788:HIS:HE1	1:C:2790:MET:HE2	1.70	0.56
1:C:3550:ARG:HH12	1:C:3593:VAL:C	2.13	0.56
1:A:3788:GLY:HA2	1:A:3835:LEU:HG	1.87	0.56
1:B:719:LEU:HD23	1:B:735:GLN:HG2	1.86	0.56
1:B:1160:ILE:O	1:B:1177:THR:OG1	2.22	0.56
1:B:3348:ARG:O	1:B:3350:ARG:NH2	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3411:LEU:HD23	1:B:3414:ARG:HH22	1.69	0.56
1:B:3723:MET:HE2	1:B:3723:MET:N	2.20	0.56
1:B:3819:TYR:CZ	1:B:3823:LYS:HG3	2.41	0.56
1:B:4708:THR:HG22	1:B:4774:LYS:HB3	1.85	0.56
1:B:4901:ILE:HG23	1:B:4913:ARG:NH2	2.20	0.56
1:D:3411:LEU:HD23	1:D:3414:ARG:HH22	1.69	0.56
1:D:4846:VAL:HG21	1:C:4816:ILE:HD11	1.87	0.56
1:D:4901:ILE:HG23	1:D:4913:ARG:NH2	2.20	0.56
1:C:2098:VAL:HG13	1:C:2101:MET:HE3	1.86	0.56
1:C:2189:LYS:HZ1	1:C:2193:GLN:HB2	1.70	0.56
1:C:3819:TYR:CZ	1:C:3823:LYS:HG3	2.41	0.56
1:C:4152:GLU:OE1	1:C:4192:ARG:NH1	2.31	0.56
1:A:73:LEU:O	1:A:106:ALA:N	2.33	0.56
1:A:683:ARG:O	1:A:781:VAL:HA	2.05	0.56
1:A:747:CYS:SG	1:A:805:PRO:HG3	2.45	0.56
1:A:897:ARG:HB3	1:A:905:PRO:HD2	1.88	0.56
1:A:1251:GLU:N	1:A:1251:GLU:OE1	2.38	0.56
1:A:1685:LEU:HD21	1:A:1714:LEU:HD11	1.87	0.56
1:A:1961:PHE:HA	1:A:1964:ARG:HD2	1.87	0.56
1:A:2355:ARG:HH12	1:A:2453:ILE:HD11	1.70	0.56
1:A:3084:GLY:HA3	1:A:3089:LYS:HZ3	1.70	0.56
1:A:3455:GLU:HA	1:A:3458:PHE:CE1	2.41	0.56
1:A:3550:ARG:HH12	1:A:3593:VAL:C	2.13	0.56
1:A:3819:TYR:CZ	1:A:3823:LYS:HG3	2.41	0.56
1:B:999:ASP:O	1:B:1003:GLN:HG3	2.05	0.56
1:B:1087:ARG:HG3	1:B:1224:GLU:H	1.70	0.56
1:B:1251:GLU:OE1	1:B:1251:GLU:N	2.38	0.56
1:B:3550:ARG:HH12	1:B:3593:VAL:C	2.13	0.56
1:B:4820:VAL:HG11	1:C:4839:MET:SD	2.46	0.56
1:D:2695:LEU:HA	1:D:2698:MET:HE3	1.88	0.56
1:D:4183:ILE:HD13	1:D:4193:ILE:HD11	1.88	0.56
1:C:1251:GLU:OE1	1:C:1251:GLU:N	2.38	0.56
1:C:1961:PHE:HA	1:C:1964:ARG:HD2	1.87	0.56
1:C:2695:LEU:HA	1:C:2698:MET:HE3	1.88	0.56
1:C:3100:SER:O	1:C:3103:ILE:HG22	2.05	0.56
1:C:3322:ILE:O	1:C:3326:ASN:ND2	2.38	0.56
1:C:3376:GLU:HB3	1:C:3380:ARG:HH12	1.70	0.56
1:C:3395:ARG:HD2	1:C:3450:ASN:HD21	1.70	0.56
1:C:3788:GLY:HA2	1:C:3835:LEU:HG	1.87	0.56
1:C:4183:ILE:HD13	1:C:4193:ILE:HD11	1.88	0.56
1:A:663:TYR:CE1	1:A:745:SER:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3100:SER:O	1:A:3103:ILE:HG22	2.05	0.56
1:A:3322:ILE:O	1:A:3326:ASN:ND2	2.38	0.56
1:A:3398:PHE:O	1:A:3402:CYS:N	2.34	0.56
1:B:897:ARG:HB3	1:B:905:PRO:HD2	1.88	0.56
1:B:2243:SER:HB3	1:B:2246:ASN:ND2	2.21	0.56
1:B:2249:SER:O	1:B:2253:HIS:ND1	2.37	0.56
1:B:3322:ILE:O	1:B:3326:ASN:ND2	2.38	0.56
1:D:897:ARG:HB3	1:D:905:PRO:HD2	1.88	0.56
1:D:2243:SER:HB3	1:D:2246:ASN:ND2	2.21	0.56
1:D:3634:ALA:O	1:D:3638:MET:HG3	2.04	0.56
1:D:3695:PRO:HB3	1:D:3699:HIS:CD2	2.41	0.56
1:C:747:CYS:SG	1:C:805:PRO:HG3	2.45	0.56
1:C:2243:SER:HB3	1:C:2246:ASN:ND2	2.21	0.56
1:C:2310:CYS:SG	1:C:2313:LEU:HB2	2.46	0.56
1:C:3531:ASP:OD2	1:C:3532:LEU:N	2.38	0.56
1:C:4901:ILE:HG23	1:C:4913:ARG:NH2	2.20	0.56
1:A:2243:SER:HB3	1:A:2246:ASN:ND2	2.21	0.56
1:A:4211:LYS:HB3	1:A:4215:ARG:HH22	1.69	0.56
1:B:111:HIS:HB3	1:B:114:SER:OG	2.06	0.56
1:B:1685:LEU:HD21	1:B:1714:LEU:HD11	1.87	0.56
1:B:2506:LEU:O	1:B:2511:GLY:N	2.35	0.56
1:B:2522:LEU:HB3	1:B:2582:MET:HE1	1.87	0.56
1:B:3020:THR:OG1	1:B:3023:LYS:O	2.23	0.56
1:B:3100:SER:O	1:B:3103:ILE:HG22	2.05	0.56
1:B:3695:PRO:HB3	1:B:3699:HIS:CD2	2.41	0.56
1:B:3930:ILE:HG23	1:B:3951:PHE:HE1	1.70	0.56
1:B:3944:GLU:OE2	1:B:3947:GLY:N	2.38	0.56
1:B:4183:ILE:HD13	1:B:4193:ILE:HD11	1.88	0.56
1:D:652:ARG:HB2	1:D:750:LEU:HD13	1.88	0.56
1:D:663:TYR:CE1	1:D:745:SER:HB2	2.36	0.56
1:D:2310:CYS:SG	1:D:2313:LEU:HB2	2.46	0.56
1:C:897:ARG:HB3	1:C:905:PRO:HD2	1.88	0.56
1:C:2195:PRO:O	1:C:2199:ARG:HG3	2.06	0.56
1:C:4708:THR:HG22	1:C:4774:LYS:HB3	1.85	0.56
1:C:4721:LYS:HE2	1:C:4741:LEU:HB3	1.86	0.56
1:A:2695:LEU:HA	1:A:2698:MET:HE3	1.87	0.56
1:A:3395:ARG:HD2	1:A:3450:ASN:HD21	1.70	0.56
2:E:17:LYS:HE3	2:E:20:GLN:HB2	1.88	0.56
1:B:1252:HIS:O	1:B:1275:ARG:NH1	2.37	0.56
1:B:1961:PHE:HA	1:B:1964:ARG:HD2	1.87	0.56
1:B:3539:ARG:HH12	1:B:3552:PHE:HB3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4802:GLY:HA2	1:B:4808:PHE:HB2	1.88	0.56
1:D:892:THR:O	1:D:904:HIS:N	2.39	0.56
1:D:2788:HIS:HE1	1:D:2790:MET:HE2	1.70	0.56
1:D:3455:GLU:HA	1:D:3458:PHE:CE1	2.40	0.56
1:D:3550:ARG:HH12	1:D:3593:VAL:C	2.13	0.56
1:C:1712:TYR:HD2	1:C:1844:LEU:HD13	1.68	0.56
1:C:3236:VAL:HA	1:C:3239:MET:HG2	1.87	0.56
1:C:3455:GLU:HA	1:C:3458:PHE:CE1	2.41	0.56
1:A:111:HIS:HB3	1:A:114:SER:OG	2.06	0.56
1:A:1944:GLU:OE2	1:A:2126:ARG:NH1	2.38	0.56
1:A:2522:LEU:HB3	1:A:2582:MET:HE1	1.87	0.56
1:D:1101:ARG:HB2	1:D:1193:SER:HB3	1.88	0.56
1:D:1944:GLU:OE2	1:D:2126:ARG:NH1	2.38	0.56
1:D:3286:GLU:HG2	1:D:3287:ARG:HD3	1.88	0.56
1:D:3531:ASP:OD2	1:D:3532:LEU:N	2.38	0.56
1:D:3819:TYR:CZ	1:D:3823:LYS:HG3	2.41	0.56
1:A:892:THR:O	1:A:904:HIS:N	2.39	0.56
1:A:4183:ILE:HD13	1:A:4193:ILE:HD11	1.88	0.56
1:B:747:CYS:SG	1:B:805:PRO:HG3	2.45	0.56
1:B:1998:PHE:O	1:B:3638:MET:HE1	2.06	0.56
1:B:2695:LEU:HA	1:B:2698:MET:HE3	1.87	0.56
1:B:2788:HIS:HE1	1:B:2790:MET:HE2	1.70	0.56
1:B:3398:PHE:O	1:B:3402:CYS:N	2.34	0.56
1:D:4977:THR:OG1	1:D:5029:ARG:NH2	2.38	0.56
1:C:1101:ARG:HB2	1:C:1193:SER:HB3	1.88	0.56
1:C:4189:ARG:HB2	1:C:4189:ARG:NH1	2.19	0.56
1:A:1087:ARG:HG3	1:A:1224:GLU:H	1.70	0.56
1:A:4977:THR:OG1	1:A:5029:ARG:NH2	2.38	0.56
1:B:683:ARG:HB3	1:B:707:VAL:HG12	1.87	0.56
1:B:884:LEU:HD11	1:B:969:PRO:HB3	1.88	0.56
1:B:2195:PRO:O	1:B:2199:ARG:HG3	2.06	0.56
1:B:3395:ARG:HD2	1:B:3450:ASN:HD21	1.70	0.56
1:B:3458:PHE:HA	1:B:3461:GLN:HG2	1.88	0.56
1:D:243:ARG:HH22	1:D:289:ARG:HD2	1.71	0.56
1:D:973:SER:O	1:D:976:ARG:NH2	2.39	0.56
1:D:1438:ARG:HB3	1:D:1563:GLN:HB2	1.88	0.56
1:D:3723:MET:N	1:D:3723:MET:HE2	2.20	0.56
1:C:1087:ARG:HG3	1:C:1224:GLU:H	1.70	0.56
1:C:1263:THR:OG1	1:C:1265:ASP:OD1	2.22	0.56
1:A:652:ARG:HB2	1:A:750:LEU:HD13	1.88	0.56
1:A:2788:HIS:HE1	1:A:2790:MET:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3930:ILE:HG23	1:A:3951:PHE:HE1	1.70	0.56
1:A:4802:GLY:HA2	1:A:4808:PHE:HB2	1.88	0.56
1:B:3036:LYS:HG2	1:B:3076:ASP:HB3	1.88	0.56
1:B:3286:GLU:HG2	1:B:3287:ARG:HD3	1.88	0.56
1:B:3362:ILE:HG22	1:B:3437:MET:HE2	1.88	0.56
1:B:4892:ARG:HH12	1:C:4898:GLY:HA3	1.71	0.56
1:C:1998:PHE:O	1:C:3638:MET:HE1	2.06	0.56
1:C:2249:SER:O	1:C:2253:HIS:ND1	2.37	0.56
1:C:3286:GLU:HG2	1:C:3287:ARG:HD3	1.88	0.56
1:C:3362:ILE:HG22	1:C:3437:MET:HE2	1.88	0.56
1:C:3395:ARG:NH1	1:C:3453:ARG:HH22	2.04	0.56
1:C:4240:ASP:OD1	1:C:4675:LYS:NZ	2.34	0.56
1:A:226:HIS:HE1	1:B:155:LYS:HB2	1.70	0.55
1:A:3036:LYS:HG2	1:A:3076:ASP:HB3	1.88	0.55
1:A:3350:ARG:O	1:A:3415:TYR:OH	2.17	0.55
1:A:3695:PRO:HB3	1:A:3699:HIS:CD2	2.41	0.55
1:A:3944:GLU:OE2	1:A:3947:GLY:N	2.38	0.55
2:F:17:LYS:HE3	2:F:20:GLN:HB2	1.88	0.55
1:B:504:ALA:HB2	1:B:512:ALA:HB2	1.89	0.55
1:D:683:ARG:HB3	1:D:707:VAL:HG12	1.87	0.55
1:D:2620:GLN:HA	1:D:2623:LEU:HB2	1.86	0.55
1:D:3100:SER:O	1:D:3103:ILE:HG22	2.05	0.55
1:D:3458:PHE:HA	1:D:3461:GLN:HG2	1.88	0.55
1:D:4184:MET:HE3	1:D:4188:ARG:HA	1.87	0.55
1:C:243:ARG:HH22	1:C:289:ARG:HD2	1.71	0.55
1:C:683:ARG:HB3	1:C:707:VAL:HG12	1.87	0.55
1:C:884:LEU:HD11	1:C:969:PRO:HB3	1.88	0.55
1:C:973:SER:O	1:C:976:ARG:NH2	2.39	0.55
1:A:281:ARG:NH1	1:A:309:THR:OG1	2.39	0.55
1:A:1438:ARG:HB3	1:A:1563:GLN:HB2	1.88	0.55
1:D:460:GLN:N	1:D:463:GLU:OE2	2.39	0.55
1:D:884:LEU:HD11	1:D:969:PRO:HB3	1.88	0.55
1:D:3395:ARG:NH1	1:D:3453:ARG:HH22	2.04	0.55
1:C:281:ARG:NH1	1:C:309:THR:OG1	2.39	0.55
1:C:3354:LEU:HB2	1:C:3415:TYR:CE2	2.38	0.55
1:C:4977:THR:OG1	1:C:5029:ARG:NH2	2.39	0.55
1:A:973:SER:O	1:A:976:ARG:NH2	2.39	0.55
1:A:2310:CYS:SG	1:A:2313:LEU:HB2	2.46	0.55
1:A:3236:VAL:HA	1:A:3239:MET:HG2	1.87	0.55
1:A:3354:LEU:HB2	1:A:3415:TYR:CE2	2.38	0.55
1:B:3531:ASP:OD2	1:B:3532:LEU:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:LEU:HB3	1:D:339:ILE:HD13	1.89	0.55
1:D:1263:THR:OG1	1:D:1265:ASP:OD1	2.22	0.55
1:D:3236:VAL:HA	1:D:3239:MET:HG2	1.87	0.55
1:D:3498:ARG:HG2	1:D:3501:ASP:H	1.72	0.55
1:D:4802:GLY:HA2	1:D:4808:PHE:HB2	1.88	0.55
1:C:504:ALA:HB2	1:C:512:ALA:HB2	1.88	0.55
1:C:3601:ALA:HA	1:C:3604:TYR:CD1	2.42	0.55
1:A:274:LEU:HB3	1:A:339:ILE:HD13	1.89	0.55
1:A:884:LEU:HD11	1:A:969:PRO:HB3	1.88	0.55
1:A:1291:LEU:HD12	1:A:1550:PRO:HG2	1.89	0.55
1:A:2195:PRO:O	1:A:2199:ARG:HG3	2.06	0.55
1:A:3300:ALA:HB3	1:A:3301:PRO:HD3	1.89	0.55
1:A:3531:ASP:OD2	1:A:3532:LEU:N	2.38	0.55
1:A:3550:ARG:O	1:A:3554:GLN:HG2	2.07	0.55
1:A:4184:MET:HE3	1:A:4188:ARG:HA	1.87	0.55
1:B:281:ARG:NH1	1:B:309:THR:OG1	2.39	0.55
1:B:990:GLU:OE2	1:B:994:ASN:ND2	2.40	0.55
1:B:2310:CYS:SG	1:B:2313:LEU:HB2	2.46	0.55
1:B:2764:GLU:HB3	1:B:2857:PRO:HG3	1.89	0.55
1:D:281:ARG:NH1	1:D:309:THR:OG1	2.39	0.55
1:D:3362:ILE:HG22	1:D:3437:MET:HE2	1.88	0.55
1:D:3539:ARG:HH12	1:D:3552:PHE:HB3	1.70	0.55
1:C:3036:LYS:HG2	1:C:3076:ASP:HB3	1.88	0.55
1:A:2909:ASP:HA	1:A:2916:LYS:HE3	1.89	0.55
1:A:3984:ARG:NH2	1:B:161:GLU:HA	2.21	0.55
1:B:460:GLN:N	1:B:463:GLU:OE2	2.39	0.55
1:B:652:ARG:HB2	1:B:750:LEU:HD13	1.88	0.55
1:D:1237:TRP:HE3	1:D:1605:TRP:HB3	1.72	0.55
1:C:466:SER:HA	1:C:469:ARG:NH1	2.22	0.55
1:C:730:VAL:O	1:C:735:GLN:NE2	2.39	0.55
1:C:3695:PRO:HB3	1:C:3699:HIS:CD2	2.41	0.55
1:C:4184:MET:HE3	1:C:4188:ARG:HA	1.87	0.55
1:A:1998:PHE:O	1:A:3638:MET:HE1	2.06	0.55
1:A:3395:ARG:NH1	1:A:3453:ARG:HH22	2.04	0.55
1:A:3498:ARG:HG2	1:A:3501:ASP:H	1.72	0.55
2:H:17:LYS:HE3	2:H:20:GLN:HB2	1.88	0.55
1:B:341:TYR:CE2	1:B:392:ARG:HG2	2.42	0.55
1:B:414:PHE:HA	1:B:436:LEU:HD22	1.89	0.55
1:B:730:VAL:O	1:B:735:GLN:NE2	2.39	0.55
1:B:1291:LEU:HD12	1:B:1550:PRO:HG2	1.89	0.55
1:B:1438:ARG:HB3	1:B:1563:GLN:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2909:ASP:HA	1:B:2916:LYS:HE3	1.89	0.55
1:B:3395:ARG:NH1	1:B:3453:ARG:HH22	2.04	0.55
1:D:730:VAL:O	1:D:735:GLN:NE2	2.39	0.55
1:D:2522:LEU:HB3	1:D:2582:MET:HE1	1.87	0.55
1:D:4016:LEU:O	1:D:4020:GLN:HG3	2.07	0.55
1:C:111:HIS:HB3	1:C:114:SER:OG	2.06	0.55
1:C:1443:GLN:NE2	1:C:1558:HIS:HB3	2.22	0.55
1:C:3718:GLU:OE1	1:C:3793:MET:HE3	2.07	0.55
1:A:175:SER:HA	1:D:2452:ARG:HD3	1.89	0.55
1:A:466:SER:HA	1:A:469:ARG:NH1	2.22	0.55
1:A:730:VAL:O	1:A:735:GLN:NE2	2.39	0.55
1:A:1101:ARG:HB2	1:A:1193:SER:HB3	1.88	0.55
1:A:3860:ASN:HB3	1:A:3865:VAL:HB	1.88	0.55
1:A:3891:LEU:HB3	1:A:3899:PHE:CE2	2.42	0.55
1:A:4016:LEU:O	1:A:4020:GLN:HG3	2.07	0.55
1:B:1133:HIS:O	1:B:1134:LEU:C	2.50	0.55
1:B:3718:GLU:OE1	1:B:3793:MET:HE3	2.07	0.55
1:B:3860:ASN:HB3	1:B:3865:VAL:HB	1.88	0.55
1:D:111:HIS:HB3	1:D:114:SER:OG	2.06	0.55
1:D:414:PHE:HA	1:D:436:LEU:HD22	1.89	0.55
1:D:3597:GLN:NE2	1:D:3598:GLU:HG3	2.22	0.55
1:C:2522:LEU:HB3	1:C:2582:MET:HE1	1.87	0.55
1:C:3078:ARG:NE	1:C:3155:ASP:OD2	2.36	0.55
1:C:3458:PHE:HA	1:C:3461:GLN:HG2	1.88	0.55
1:C:3498:ARG:HG2	1:C:3501:ASP:H	1.72	0.55
1:A:504:ALA:HB2	1:A:512:ALA:HB2	1.89	0.55
1:A:3286:GLU:HG2	1:A:3287:ARG:HD3	1.88	0.55
1:A:4567:LEU:HD21	1:A:4816:ILE:HG22	1.89	0.55
2:G:17:LYS:HE3	2:G:20:GLN:HB2	1.88	0.55
1:B:1211:LEU:HB3	1:B:1214:PHE:HB3	1.88	0.55
1:B:4567:LEU:HD21	1:B:4816:ILE:HG22	1.89	0.55
1:D:504:ALA:HB2	1:D:512:ALA:HB2	1.88	0.55
1:D:1291:LEU:HB3	1:D:1595:LEU:HD11	1.89	0.55
1:D:2951:ILE:HA	1:D:2954:ARG:HD3	1.89	0.55
1:C:341:TYR:CE2	1:C:392:ARG:HG2	2.42	0.55
1:C:1133:HIS:O	1:C:1134:LEU:C	2.50	0.55
1:C:1211:LEU:HB3	1:C:1214:PHE:HB3	1.88	0.55
1:C:2764:GLU:HB3	1:C:2857:PRO:HG3	1.89	0.55
1:C:2909:ASP:HA	1:C:2916:LYS:HE3	1.89	0.55
1:C:3597:GLN:NE2	1:C:3598:GLU:HG3	2.22	0.55
1:C:3891:LEU:HB3	1:C:3899:PHE:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:414:PHE:HA	1:A:436:LEU:HD22	1.89	0.55
1:A:894:GLY:HA3	1:A:903:LEU:HD23	1.89	0.55
1:A:3324:VAL:HG11	1:A:3361:THR:HG22	1.89	0.55
1:A:3601:ALA:HA	1:A:3604:TYR:CD1	2.42	0.55
1:A:3965:LEU:HA	1:A:3968:TYR:HD2	1.72	0.55
1:B:243:ARG:HH22	1:B:289:ARG:HD2	1.71	0.55
1:B:3324:VAL:HG11	1:B:3361:THR:HG22	1.89	0.55
1:B:4016:LEU:O	1:B:4020:GLN:HG3	2.07	0.55
1:D:990:GLU:OE2	1:D:994:ASN:ND2	2.40	0.55
1:D:1087:ARG:HG3	1:D:1224:GLU:H	1.70	0.55
1:D:1998:PHE:O	1:D:3638:MET:HE1	2.06	0.55
1:D:2195:PRO:O	1:D:2199:ARG:HG3	2.06	0.55
1:D:3718:GLU:OE1	1:D:3793:MET:HE3	2.07	0.55
1:C:589:LEU:HA	1:C:592:LYS:HZ2	1.71	0.55
1:C:1291:LEU:HD12	1:C:1550:PRO:HG2	1.89	0.55
1:C:3324:VAL:HG11	1:C:3361:THR:HG22	1.89	0.55
1:C:3550:ARG:O	1:C:3554:GLN:HG2	2.07	0.55
1:A:243:ARG:HH22	1:A:289:ARG:HD2	1.71	0.55
1:A:1741:GLU:O	1:A:1745:ILE:HG13	2.07	0.55
1:A:2506:LEU:O	1:A:2511:GLY:N	2.35	0.55
1:A:2611:CYS:HA	1:A:2614:ILE:HD12	1.89	0.55
1:A:2764:GLU:HB3	1:A:2857:PRO:HG3	1.89	0.55
1:A:3458:PHE:HA	1:A:3461:GLN:HG2	1.88	0.55
1:B:274:LEU:HB3	1:B:339:ILE:HD13	1.89	0.55
1:B:3524:MET:HE2	1:B:3595:ARG:HD3	1.89	0.55
1:B:3891:LEU:HB3	1:B:3899:PHE:CE2	2.42	0.55
1:D:2969:ILE:O	1:D:2972:GLU:HG3	2.07	0.55
1:C:652:ARG:HB2	1:C:750:LEU:HD13	1.88	0.55
1:C:4802:GLY:HA2	1:C:4808:PHE:HB2	1.88	0.55
1:A:990:GLU:OE2	1:A:994:ASN:ND2	2.40	0.54
1:A:1211:LEU:HB3	1:A:1214:PHE:HB3	1.88	0.54
1:A:1237:TRP:HE3	1:A:1605:TRP:HB3	1.72	0.54
1:A:3110:LEU:HD21	1:A:3183:VAL:HB	1.89	0.54
1:A:3207:GLU:O	1:A:3211:ASN:HB2	2.08	0.54
1:A:3362:ILE:HG22	1:A:3437:MET:HE2	1.88	0.54
1:A:4967:TYR:OH	1:A:5033:GLU:OE2	2.21	0.54
1:B:894:GLY:HA3	1:B:903:LEU:HD23	1.89	0.54
1:B:1101:ARG:HB2	1:B:1193:SER:HB3	1.88	0.54
1:B:1237:TRP:HE3	1:B:1605:TRP:HB3	1.72	0.54
1:B:3110:LEU:HD21	1:B:3183:VAL:HB	1.89	0.54
1:B:3965:LEU:HA	1:B:3968:TYR:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:179:TYR:N	1:D:194:SER:O	2.36	0.54
1:D:1439:VAL:HG21	1:D:1448:VAL:HG11	1.90	0.54
1:D:2506:LEU:O	1:D:2511:GLY:N	2.35	0.54
1:D:2764:GLU:HB3	1:D:2857:PRO:HG3	1.89	0.54
1:D:3036:LYS:HG2	1:D:3076:ASP:HB3	1.88	0.54
1:D:3965:LEU:HA	1:D:3968:TYR:HD2	1.72	0.54
1:C:274:LEU:HB3	1:C:339:ILE:HD13	1.89	0.54
1:C:1008:SER:HB2	1:C:1017:ARG:HB3	1.89	0.54
1:C:3539:ARG:HH12	1:C:3552:PHE:HB3	1.70	0.54
1:A:341:TYR:CE2	1:A:392:ARG:HG2	2.42	0.54
1:A:1443:GLN:NE2	1:A:1558:HIS:HB3	2.22	0.54
1:B:3207:GLU:O	1:B:3211:ASN:HB2	2.07	0.54
1:D:1443:GLN:NE2	1:D:1558:HIS:HB3	2.22	0.54
1:D:3207:GLU:O	1:D:3211:ASN:HB2	2.07	0.54
1:D:3300:ALA:HB3	1:D:3301:PRO:HD3	1.89	0.54
1:C:1438:ARG:HB3	1:C:1563:GLN:HB2	1.88	0.54
1:C:3207:GLU:O	1:C:3211:ASN:HB2	2.08	0.54
1:C:3540:TYR:OH	1:C:3597:GLN:OE1	2.25	0.54
1:C:4567:LEU:HD21	1:C:4816:ILE:HG22	1.89	0.54
1:B:818:ARG:NH2	1:B:1027:LEU:O	2.22	0.54
1:B:1443:GLN:NE2	1:B:1558:HIS:HB3	2.22	0.54
1:B:2951:ILE:HA	1:B:2954:ARG:HD3	1.89	0.54
1:B:2969:ILE:O	1:B:2972:GLU:HG3	2.07	0.54
1:B:4184:MET:HB3	1:B:5021:PHE:HA	1.90	0.54
1:D:466:SER:HA	1:D:469:ARG:NH1	2.22	0.54
1:D:3324:VAL:HG11	1:D:3361:THR:HG22	1.89	0.54
1:D:3860:ASN:HB3	1:D:3865:VAL:HB	1.89	0.54
1:C:1713:ASP:HA	1:C:1716:ILE:HD12	1.89	0.54
1:C:3860:ASN:HB3	1:C:3865:VAL:HB	1.89	0.54
1:A:232:THR:HG21	1:A:257:ARG:HE	1.73	0.54
1:A:293:LEU:HD13	1:A:378:LEU:HD23	1.90	0.54
1:A:1291:LEU:HB3	1:A:1595:LEU:HD11	1.89	0.54
1:A:3368:ARG:HG2	1:A:3371:LYS:HZ2	1.73	0.54
1:A:3540:TYR:OH	1:A:3597:GLN:OE1	2.25	0.54
1:B:892:THR:O	1:B:904:HIS:N	2.39	0.54
1:B:973:SER:O	1:B:976:ARG:NH2	2.39	0.54
1:B:2612[A]:ARG:HB3	1:B:2612[A]:ARG:NH1	2.23	0.54
1:B:3552:PHE:HA	1:B:3555:ASN:ND2	2.23	0.54
1:D:1133:HIS:O	1:D:1134:LEU:C	2.50	0.54
1:D:3601:ALA:HA	1:D:3604:TYR:CD1	2.42	0.54
1:C:131:LEU:O	1:C:178:ARG:NE	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1439:VAL:HG21	1:C:1448:VAL:HG11	1.90	0.54
1:C:2178:MET:O	1:C:2182:ILE:HG12	2.08	0.54
1:C:2821:TRP:HZ3	1:C:2878:LEU:HD13	1.73	0.54
1:A:1008:SER:HB2	1:A:1017:ARG:HB3	1.89	0.54
1:A:2612[A]:ARG:HB3	1:A:2612[A]:ARG:NH1	2.23	0.54
1:A:3552:PHE:HA	1:A:3555:ASN:ND2	2.23	0.54
1:A:4184:MET:HB3	1:A:5021:PHE:HA	1.90	0.54
1:B:144:GLU:HB3	1:B:175:SER:HB3	1.90	0.54
1:D:341:TYR:CE2	1:D:392:ARG:HG2	2.42	0.54
1:D:1211:LEU:HB3	1:D:1214:PHE:HB3	1.88	0.54
1:D:2909:ASP:HA	1:D:2916:LYS:HE3	1.89	0.54
1:D:4567:LEU:HD21	1:D:4816:ILE:HG22	1.89	0.54
1:C:990:GLU:OE2	1:C:994:ASN:ND2	2.40	0.54
1:C:2330:ARG:HA	1:C:2333:ASP:OD2	2.08	0.54
1:C:4016:LEU:O	1:C:4020:GLN:HG3	2.07	0.54
1:A:1439:VAL:HG21	1:A:1448:VAL:HG11	1.90	0.54
1:A:4219:PHE:HD1	1:A:4950:VAL:HG11	1.73	0.54
1:B:466:SER:HA	1:B:469:ARG:NH1	2.22	0.54
1:B:3498:ARG:HG2	1:B:3501:ASP:H	1.72	0.54
1:B:3597:GLN:NE2	1:B:3598:GLU:HG3	2.22	0.54
1:D:144:GLU:HB3	1:D:175:SER:HB3	1.90	0.54
1:D:1089:TYR:CZ	1:D:1214:PHE:HB2	2.43	0.54
1:D:1721:GLU:HG2	1:D:1722:SER:N	2.23	0.54
1:D:2534:ALA:HA	1:D:2588:ARG:NH1	2.21	0.54
1:D:2612[A]:ARG:HH11	1:D:2612[A]:ARG:CB	2.20	0.54
1:D:3354:LEU:HB2	1:D:3415:TYR:CE2	2.38	0.54
1:D:3891:LEU:HB3	1:D:3899:PHE:CE2	2.42	0.54
1:D:4540:PHE:O	1:D:4543:GLU:HG3	2.08	0.54
1:C:941:MET:N	1:C:941:MET:HE2	2.23	0.54
1:C:1089:TYR:CZ	1:C:1214:PHE:HB2	2.43	0.54
1:C:1721:GLU:HG2	1:C:1722:SER:N	2.23	0.54
1:C:2969:ILE:O	1:C:2972:GLU:HG3	2.07	0.54
1:C:3944:GLU:OE2	1:C:3947:GLY:N	2.38	0.54
1:A:144:GLU:HB3	1:A:175:SER:HB3	1.90	0.54
1:A:2951:ILE:HA	1:A:2954:ARG:HD3	1.89	0.54
1:A:3020:THR:OG1	1:A:3023:LYS:O	2.23	0.54
1:B:1092:PHE:HZ	1:B:1100:MET:SD	2.31	0.54
1:B:2330:ARG:HA	1:B:2333:ASP:OD2	2.07	0.54
1:B:2581:SER:O	1:B:2585:THR:HG23	2.08	0.54
1:B:3300:ALA:HB3	1:B:3301:PRO:HD3	1.89	0.54
1:D:3455:GLU:HA	1:D:3458:PHE:CD1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3550:ARG:O	1:D:3554:GLN:HG2	2.07	0.54
1:C:293:LEU:HD13	1:C:378:LEU:HD23	1.89	0.54
1:C:414:PHE:HA	1:C:436:LEU:HD22	1.89	0.54
1:C:1237:TRP:HE3	1:C:1605:TRP:HB3	1.72	0.54
1:A:1089:TYR:CZ	1:A:1214:PHE:HB2	2.43	0.54
1:A:2807:TRP:O	1:A:2811:GLU:HG2	2.08	0.54
1:A:4540:PHE:O	1:A:4543:GLU:HG3	2.08	0.54
1:A:4582:VAL:HG12	1:B:4877:ASP:O	2.08	0.54
1:B:25:SER:OG	1:B:32:GLN:NE2	2.38	0.54
1:B:1115:LEU:HD21	1:B:1123:VAL:HG11	1.90	0.54
1:B:1154:ASP:HB3	1:B:1157:GLU:HB3	1.89	0.54
1:B:1950:GLU:OE2	1:B:1954:ARG:NE	2.41	0.54
1:B:2611:CYS:HA	1:B:2614:ILE:HD12	1.89	0.54
1:B:3084:GLY:HA3	1:B:3089:LYS:HZ3	1.71	0.54
1:B:4219:PHE:HD1	1:B:4950:VAL:HG11	1.73	0.54
1:D:886:ARG:HD3	1:D:907:LEU:HG	1.90	0.54
1:D:941:MET:HE2	1:D:941:MET:N	2.23	0.54
1:D:1131:ARG:HH11	1:D:1139:PHE:HB2	1.73	0.54
1:D:1741:GLU:O	1:D:1745:ILE:HG13	2.07	0.54
1:C:3300:ALA:HB3	1:C:3301:PRO:HD3	1.89	0.54
1:A:1115:LEU:HD21	1:A:1123:VAL:HG11	1.90	0.54
1:A:2103:VAL:CG1	1:A:2107:GLN:HE22	2.21	0.54
1:A:3524:MET:HE2	1:A:3595:ARG:HD3	1.89	0.54
1:A:3718:GLU:OE1	1:A:3793:MET:HE3	2.07	0.54
1:B:884:LEU:O	1:B:888:GLU:HG2	2.08	0.54
1:B:2229:VAL:HB	1:B:2267:MET:HE3	1.90	0.54
1:B:3550:ARG:O	1:B:3554:GLN:HG2	2.07	0.54
1:B:3601:ALA:HA	1:B:3604:TYR:CD1	2.42	0.54
1:D:3110:LEU:HD21	1:D:3183:VAL:HB	1.89	0.54
1:D:4229:GLU:OE1	1:D:4229:GLU:N	2.36	0.54
1:C:144:GLU:HB3	1:C:175:SER:HB3	1.90	0.54
1:C:1131:ARG:HH11	1:C:1139:PHE:HB2	1.73	0.54
1:C:1741:GLU:O	1:C:1745:ILE:HG13	2.07	0.54
1:C:2951:ILE:HA	1:C:2954:ARG:HD3	1.89	0.54
1:C:3552:PHE:HA	1:C:3555:ASN:ND2	2.23	0.54
1:A:1154:ASP:HB3	1:A:1157:GLU:HB3	1.89	0.54
1:A:1713:ASP:HA	1:A:1716:ILE:HD12	1.89	0.54
2:F:7:ILE:HD11	2:F:73:LYS:HB2	1.90	0.54
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.07	0.54
1:D:232:THR:HG21	1:D:257:ARG:HE	1.73	0.54
1:D:1291:LEU:HD12	1:D:1550:PRO:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1713:ASP:HA	1:D:1716:ILE:HD12	1.89	0.54
1:D:2103:VAL:CG1	1:D:2107:GLN:HE22	2.21	0.54
1:D:2229:VAL:HB	1:D:2267:MET:HE3	1.90	0.54
1:D:2612[A]:ARG:HB3	1:D:2612[A]:ARG:NH1	2.23	0.54
1:C:892:THR:O	1:C:904:HIS:N	2.39	0.54
1:C:2229:VAL:HB	1:C:2267:MET:HE3	1.90	0.54
1:C:2611:CYS:HA	1:C:2614:ILE:HD12	1.89	0.54
1:A:1092:PHE:HZ	1:A:1100:MET:SD	2.31	0.53
1:A:1131:ARG:HH11	1:A:1139:PHE:HB2	1.73	0.53
1:A:2821:TRP:HZ3	1:A:2878:LEU:HD13	1.73	0.53
1:A:3842:LEU:HD13	1:A:3933:PHE:CD2	2.44	0.53
1:B:232:THR:HG21	1:B:257:ARG:HE	1.73	0.53
1:B:796:ARG:NH1	1:B:796:ARG:HA	2.23	0.53
1:B:1008:SER:HB2	1:B:1017:ARG:HB3	1.89	0.53
1:B:1131:ARG:HH11	1:B:1139:PHE:HB2	1.73	0.53
1:B:1439:VAL:HG21	1:B:1448:VAL:HG11	1.89	0.53
1:B:2178:MET:O	1:B:2182:ILE:HG12	2.08	0.53
1:B:2265:LEU:HD13	1:B:2331:TYR:CE2	2.44	0.53
1:B:2821:TRP:HZ3	1:B:2878:LEU:HD13	1.73	0.53
1:B:4229:GLU:N	1:B:4229:GLU:OE1	2.36	0.53
1:D:131:LEU:O	1:D:178:ARG:NE	2.34	0.53
1:D:1092:PHE:HZ	1:D:1100:MET:SD	2.31	0.53
1:C:2581:SER:O	1:C:2585:THR:HG23	2.08	0.53
1:C:3110:LEU:HD21	1:C:3183:VAL:HB	1.89	0.53
1:A:1867:GLU:CD	1:A:1928:GLN:HE22	2.15	0.53
1:A:2229:VAL:HB	1:A:2267:MET:HE3	1.90	0.53
1:A:3262:ARG:HH22	1:A:3325:ASN:HB3	1.73	0.53
1:A:3597:GLN:NE2	1:A:3598:GLU:HG3	2.22	0.53
2:G:7:ILE:HD11	2:G:73:LYS:HB2	1.90	0.53
1:B:244:LEU:HB3	1:B:375:LYS:HZ3	1.73	0.53
1:B:1089:TYR:CZ	1:B:1214:PHE:HB2	2.43	0.53
1:B:1721:GLU:HG2	1:B:1722:SER:N	2.23	0.53
1:B:4977:THR:OG1	1:B:5029:ARG:NH2	2.38	0.53
1:D:894:GLY:HA3	1:D:903:LEU:HD23	1.89	0.53
1:D:2611:CYS:HA	1:D:2614:ILE:HD12	1.89	0.53
1:D:2807:TRP:O	1:D:2811:GLU:HG2	2.08	0.53
1:D:3540:TYR:OH	1:D:3597:GLN:OE1	2.25	0.53
1:C:424:LYS:HD2	1:C:425:PRO:HD2	1.89	0.53
1:C:788:LYS:HE2	1:C:1629:GLN:HG3	1.90	0.53
1:C:1092:PHE:HZ	1:C:1100:MET:SD	2.31	0.53
1:C:3455:GLU:HA	1:C:3458:PHE:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3842:LEU:HD13	1:C:3933:PHE:CD2	2.44	0.53
1:C:3965:LEU:HA	1:C:3968:TYR:HD2	1.72	0.53
1:C:4184:MET:HB3	1:C:5021:PHE:HA	1.90	0.53
1:A:424:LYS:HD2	1:A:425:PRO:HD2	1.89	0.53
1:A:886:ARG:HD3	1:A:907:LEU:HG	1.90	0.53
1:A:2470:ILE:HA	1:A:2499:LYS:HE3	1.91	0.53
1:B:424:LYS:HD2	1:B:425:PRO:HD2	1.89	0.53
1:B:3455:GLU:HA	1:B:3458:PHE:CD1	2.43	0.53
1:B:3540:TYR:OH	1:B:3597:GLN:OE1	2.25	0.53
1:D:293:LEU:HD13	1:D:378:LEU:HD23	1.90	0.53
1:D:788:LYS:HE2	1:D:1629:GLN:HG3	1.90	0.53
1:D:862:VAL:HG12	1:D:864:PRO:HD3	1.90	0.53
1:D:1115:LEU:HD21	1:D:1123:VAL:HG11	1.90	0.53
1:D:1170:MET:HB3	1:C:3479:ALA:HB3	1.90	0.53
1:D:2094:LEU:O	1:D:2098:VAL:HG23	2.09	0.53
1:D:2821:TRP:HZ3	1:D:2878:LEU:HD13	1.73	0.53
1:D:3316:LEU:HD21	1:D:3346:VAL:HG13	1.91	0.53
1:D:3552:PHE:HA	1:D:3555:ASN:ND2	2.23	0.53
1:C:1291:LEU:HB3	1:C:1595:LEU:HD11	1.89	0.53
1:C:2612[A]:ARG:HB3	1:C:2612[A]:ARG:NH1	2.23	0.53
1:C:3524:MET:HE2	1:C:3595:ARG:HD3	1.90	0.53
1:A:179:TYR:N	1:A:194:SER:O	2.36	0.53
1:A:460:GLN:N	1:A:463:GLU:OE2	2.39	0.53
1:A:941:MET:HE2	1:A:941:MET:N	2.23	0.53
1:A:1078:GLU:HB3	1:A:1081:TYR:HD2	1.74	0.53
1:A:1263:THR:OG1	1:A:1265:ASP:OD1	2.22	0.53
1:A:3244:PRO:HD2	1:A:3249:LEU:HD21	1.91	0.53
1:A:4018:ASP:HA	1:A:4021:LYS:HE3	1.91	0.53
1:A:4947:GLN:HB3	1:A:4951:LYS:NZ	2.24	0.53
1:B:2615:ARG:HB2	1:B:2618:MET:CE	2.38	0.53
1:B:4937:ILE:HD11	1:C:4930:ALA:HB1	1.90	0.53
1:D:2330:ARG:HA	1:D:2333:ASP:OD2	2.07	0.53
1:C:818:ARG:NH2	1:C:1027:LEU:O	2.22	0.53
1:C:886:ARG:HD3	1:C:907:LEU:HG	1.90	0.53
1:C:1078:GLU:HB3	1:C:1081:TYR:HD2	1.74	0.53
1:C:1268:PRO:HB2	1:C:1591:CYS:HB2	1.91	0.53
1:C:2094:LEU:O	1:C:2098:VAL:HG23	2.09	0.53
1:C:3020:THR:OG1	1:C:3023:LYS:O	2.23	0.53
1:A:2330:ARG:HA	1:A:2333:ASP:OD2	2.07	0.53
1:A:2581:SER:O	1:A:2585:THR:HG23	2.08	0.53
1:A:2859:PRO:HB3	1:A:2932:MET:SD	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3316:LEU:HD21	1:A:3346:VAL:HG13	1.91	0.53
1:A:3455:GLU:HA	1:A:3458:PHE:CD1	2.43	0.53
1:B:2740:VAL:HG12	1:B:2818:ALA:HB1	1.91	0.53
1:D:1459:GLN:OE1	1:D:1459:GLN:N	2.41	0.53
1:D:4713:SER:HG	1:D:4775:TYR:HH	1.55	0.53
1:C:468:LEU:HB3	1:C:472:ARG:HH12	1.74	0.53
1:C:1950:GLU:OE2	1:C:1954:ARG:NE	2.41	0.53
1:C:2612[A]:ARG:HH11	1:C:2612[A]:ARG:CB	2.20	0.53
1:C:3017:PHE:HA	1:C:3031:ALA:HB2	1.91	0.53
1:A:25:SER:OG	1:A:32:GLN:NE2	2.38	0.53
1:A:155:LYS:HG3	1:A:156:GLN:H	1.72	0.53
1:A:600:LEU:HD11	1:A:1669:LEU:HD22	1.91	0.53
1:A:2969:ILE:O	1:A:2972:GLU:HG3	2.07	0.53
1:B:1291:LEU:HB3	1:B:1595:LEU:HD11	1.89	0.53
1:B:1459:GLN:N	1:B:1459:GLN:OE1	2.41	0.53
1:B:2470:ILE:HA	1:B:2499:LYS:HE3	1.91	0.53
1:B:2570:ALA:HB2	1:B:2613:TYR:HB3	1.91	0.53
1:B:2803:GLU:OE1	1:B:2806:ARG:NE	2.42	0.53
1:B:2807:TRP:O	1:B:2811:GLU:HG2	2.08	0.53
1:B:3244:PRO:HD2	1:B:3249:LEU:HD21	1.91	0.53
1:B:3842:LEU:HD13	1:B:3933:PHE:CD2	2.44	0.53
1:D:25:SER:OG	1:D:32:GLN:NE2	2.38	0.53
1:D:1950:GLU:OE2	1:D:1954:ARG:NE	2.41	0.53
1:D:2577:ILE:HG13	1:D:2578:MET:H	1.74	0.53
1:D:2581:SER:O	1:D:2585:THR:HG23	2.08	0.53
1:D:3625:SER:O	1:D:3629:ARG:HG2	2.09	0.53
1:D:4018:ASP:HA	1:D:4021:LYS:HE3	1.91	0.53
1:D:4184:MET:HB3	1:D:5021:PHE:HA	1.90	0.53
1:C:232:THR:HG21	1:C:257:ARG:HE	1.73	0.53
1:C:884:LEU:O	1:C:888:GLU:HG2	2.08	0.53
1:C:1115:LEU:HD21	1:C:1123:VAL:HG11	1.90	0.53
1:C:2740:VAL:HG12	1:C:2818:ALA:HB1	1.91	0.53
1:C:2807:TRP:O	1:C:2811:GLU:HG2	2.08	0.53
1:C:2859:PRO:HB3	1:C:2932:MET:SD	2.49	0.53
1:A:788:LYS:HE2	1:A:1629:GLN:HG3	1.90	0.53
1:A:884:LEU:O	1:A:888:GLU:HG2	2.08	0.53
1:A:1651:LEU:O	1:A:1654:SER:OG	2.25	0.53
1:A:2328:GLY:O	1:A:2332:LEU:HG	2.09	0.53
1:A:2615:ARG:HB2	1:A:2618:MET:CE	2.38	0.53
1:B:2542:SER:HB2	1:B:2594:SER:HB2	1.90	0.53
1:B:3725:TYR:O	1:B:3729:MET:HE3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:211:GLU:OE2	1:D:392:ARG:NH1	2.42	0.53
1:D:2859:PRO:HB3	1:D:2932:MET:SD	2.49	0.53
1:D:3524:MET:HE2	1:D:3595:ARG:HD3	1.89	0.53
1:D:4219:PHE:HD1	1:D:4950:VAL:HG11	1.73	0.53
1:C:347:PHE:HB3	1:C:356:TRP:CZ3	2.44	0.53
1:C:894:GLY:HA3	1:C:903:LEU:HD23	1.89	0.53
1:C:3368:ARG:HG2	1:C:3371:LYS:HZ2	1.73	0.53
1:C:3625:SER:O	1:C:3629:ARG:HG2	2.09	0.53
1:C:3725:TYR:O	1:C:3729:MET:HE3	2.08	0.53
1:A:538:ALA:O	1:A:542:THR:HG23	2.09	0.53
1:A:955:LEU:HD12	1:A:966:LYS:HB3	1.91	0.53
1:A:1125:ASN:HB3	1:A:1128:ARG:CZ	2.39	0.53
1:B:2328:GLY:O	1:B:2332:LEU:HG	2.08	0.53
1:B:2612[A]:ARG:HH11	1:B:2612[A]:ARG:CB	2.20	0.53
1:B:3479:ALA:HB1	1:C:1140:GLY:HA2	1.90	0.53
1:B:4556:SER:HB2	1:B:4664:LEU:HD13	1.91	0.53
1:B:4767:TRP:CE2	1:B:4771:ILE:HD11	2.44	0.53
1:D:424:LYS:HD2	1:D:425:PRO:HD2	1.89	0.53
1:D:707:VAL:HG23	1:D:713:SER:HB2	1.91	0.53
1:D:2178:MET:O	1:D:2182:ILE:HG12	2.08	0.53
1:D:2182:ILE:HA	1:D:2185:ILE:HD12	1.91	0.53
1:D:2272:PRO:O	1:D:2275:VAL:HG12	2.09	0.53
1:D:3017:PHE:HA	1:D:3031:ALA:HB2	1.91	0.53
1:D:3842:LEU:HD13	1:D:3933:PHE:CD2	2.44	0.53
1:C:460:GLN:N	1:C:463:GLU:OE2	2.39	0.53
1:C:684:VAL:HG22	1:C:781:VAL:HG12	1.91	0.53
1:C:1154:ASP:HB3	1:C:1157:GLU:HB3	1.89	0.53
1:C:4219:PHE:HD1	1:C:4950:VAL:HG11	1.73	0.53
1:C:4540:PHE:O	1:C:4543:GLU:HG3	2.08	0.53
1:A:468:LEU:HB3	1:A:472:ARG:HH12	1.74	0.53
1:A:707:VAL:HG23	1:A:713:SER:HB2	1.91	0.53
1:A:1133:HIS:O	1:A:1134:LEU:C	2.50	0.53
1:A:1950:GLU:OE2	1:A:1954:ARG:NE	2.41	0.53
1:A:2182:ILE:HA	1:A:2185:ILE:HD12	1.91	0.53
1:A:2542:SER:HB2	1:A:2594:SER:HB2	1.90	0.53
1:A:3147:ILE:CD1	1:A:3152:PHE:HB2	2.39	0.53
1:A:4556:SER:HB2	1:A:4664:LEU:HD13	1.91	0.53
1:B:181:HIS:ND1	1:B:198:THR:OG1	2.32	0.53
1:B:1867:GLU:CD	1:B:1928:GLN:HE22	2.15	0.53
1:B:2182:ILE:HA	1:B:2185:ILE:HD12	1.91	0.53
1:B:2514:ASN:HB2	1:B:2517:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2859:PRO:HB3	1:B:2932:MET:SD	2.48	0.53
1:B:4018:ASP:HA	1:B:4021:LYS:HE3	1.91	0.53
1:D:538:ALA:O	1:D:542:THR:HG23	2.09	0.53
1:D:2023:LEU:HD22	1:D:2027:ILE:HG21	1.91	0.53
1:D:3244:PRO:HD2	1:D:3249:LEU:HD21	1.91	0.53
1:D:3262:ARG:HH22	1:D:3325:ASN:HB3	1.73	0.53
1:D:3725:TYR:O	1:D:3729:MET:HE3	2.08	0.53
1:C:2182:ILE:HA	1:C:2185:ILE:HD12	1.91	0.53
1:C:2570:ALA:HB2	1:C:2613:TYR:HB3	1.91	0.53
1:C:3364:ARG:HA	1:C:3367:LYS:HG2	1.91	0.53
1:C:4556:SER:HB2	1:C:4664:LEU:HD13	1.91	0.53
1:A:2094:LEU:O	1:A:2098:VAL:HG23	2.09	0.53
1:A:2178:MET:O	1:A:2182:ILE:HG12	2.08	0.53
1:A:2272:PRO:O	1:A:2275:VAL:HG12	2.09	0.53
1:A:2355:ARG:O	1:A:2359:ARG:HG2	2.09	0.53
1:B:1125:ASN:HB3	1:B:1128:ARG:CZ	2.39	0.53
1:B:1713:ASP:HA	1:B:1716:ILE:HD12	1.89	0.53
1:B:3316:LEU:HD21	1:B:3346:VAL:HG13	1.91	0.53
1:B:4540:PHE:O	1:B:4543:GLU:HG3	2.08	0.53
1:D:468:LEU:HB3	1:D:472:ARG:HH12	1.74	0.53
1:D:796:ARG:NH1	1:D:796:ARG:HA	2.24	0.53
1:D:884:LEU:O	1:D:888:GLU:HG2	2.08	0.53
1:D:1154:ASP:HB3	1:D:1157:GLU:HB3	1.89	0.53
1:D:2265:LEU:HD13	1:D:2331:TYR:CE2	2.44	0.53
1:C:211:GLU:OE2	1:C:392:ARG:NH1	2.42	0.53
1:C:862:VAL:HG12	1:C:864:PRO:HD3	1.91	0.53
1:C:955:LEU:HD12	1:C:966:LYS:HB3	1.91	0.53
1:C:2514:ASN:HB2	1:C:2517:PHE:HB3	1.91	0.53
1:C:2803:GLU:OE1	1:C:2806:ARG:NE	2.42	0.53
1:A:1459:GLN:OE1	1:A:1459:GLN:N	2.41	0.52
1:A:1721:GLU:HG2	1:A:1722:SER:N	2.23	0.52
1:A:2534:ALA:HA	1:A:2588:ARG:NH1	2.21	0.52
1:A:4767:TRP:CE2	1:A:4771:ILE:HD11	2.44	0.52
1:B:468:LEU:HB3	1:B:472:ARG:HH12	1.74	0.52
1:B:600:LEU:HD11	1:B:1669:LEU:HD22	1.91	0.52
1:B:1240:LYS:CB	1:B:1604:SER:O	2.57	0.52
1:B:3625:SER:O	1:B:3629:ARG:HG2	2.09	0.52
1:D:181:HIS:HA	1:D:198:THR:HB	1.91	0.52
1:D:1576:SER:HA	1:D:1579:MET:HE2	1.92	0.52
1:D:2328:GLY:O	1:D:2332:LEU:HG	2.09	0.52
1:D:4556:SER:HB2	1:D:4664:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1125:ASN:HB3	1:C:1128:ARG:CZ	2.39	0.52
1:C:2470:ILE:HA	1:C:2499:LYS:HE3	1.91	0.52
1:C:2577:ILE:HG13	1:C:2578:MET:H	1.74	0.52
1:C:3316:LEU:HD21	1:C:3346:VAL:HG13	1.91	0.52
1:A:1576:SER:HA	1:A:1579:MET:HE2	1.91	0.52
1:A:2265:LEU:HD13	1:A:2331:TYR:CE2	2.44	0.52
1:A:3625:SER:O	1:A:3629:ARG:HG2	2.09	0.52
1:B:211:GLU:OE2	1:B:392:ARG:NH1	2.42	0.52
1:B:2094:LEU:O	1:B:2098:VAL:HG23	2.09	0.52
1:B:2577:ILE:HG13	1:B:2578:MET:H	1.74	0.52
1:B:3498:ARG:HD3	1:B:3501:ASP:HB2	1.92	0.52
1:D:659:TYR:O	1:D:662:TRP:NE1	2.43	0.52
1:D:1125:ASN:HB3	1:D:1128:ARG:CZ	2.39	0.52
1:D:1268:PRO:HB2	1:D:1591:CYS:HB2	1.91	0.52
1:D:2003:GLN:HB2	1:D:3652:MET:HE2	1.92	0.52
1:D:2355:ARG:O	1:D:2359:ARG:HG2	2.09	0.52
1:D:2672:LEU:HD22	1:D:2710:LEU:HD12	1.92	0.52
1:D:3392:LEU:HA	1:D:3395:ARG:HB2	1.91	0.52
1:C:181:HIS:HA	1:C:198:THR:HB	1.91	0.52
1:C:181:HIS:ND1	1:C:198:THR:OG1	2.32	0.52
1:C:707:VAL:HG23	1:C:713:SER:HB2	1.91	0.52
1:C:796:ARG:NH1	1:C:796:ARG:HA	2.24	0.52
1:C:1240:LYS:CB	1:C:1604:SER:O	2.57	0.52
1:C:1651:LEU:O	1:C:1654:SER:OG	2.25	0.52
1:C:2003:GLN:HB2	1:C:3652:MET:HE2	1.92	0.52
1:A:684:VAL:HG22	1:A:781:VAL:HG12	1.91	0.52
1:A:796:ARG:NH1	1:A:796:ARG:HA	2.24	0.52
1:A:2803:GLU:OE1	1:A:2806:ARG:NE	2.42	0.52
1:A:3725:TYR:O	1:A:3729:MET:HE3	2.08	0.52
1:B:347:PHE:HB3	1:B:356:TRP:CZ3	2.44	0.52
1:B:484:LEU:O	1:B:488:LEU:HG	2.09	0.52
1:B:538:ALA:O	1:B:542:THR:HG23	2.09	0.52
1:B:1268:PRO:HB2	1:B:1591:CYS:HB2	1.91	0.52
1:B:2106:ALA:HB1	1:B:3697:PRO:HG3	1.91	0.52
1:B:2599:GLN:O	1:B:2603:ILE:HG13	2.10	0.52
1:B:2747:ILE:HG22	1:B:2814:LYS:HE2	1.91	0.52
1:B:2772:GLN:HG3	1:C:1506:GLN:NE2	2.25	0.52
1:D:257:ARG:O	1:D:284:HIS:NE2	2.29	0.52
1:D:684:VAL:HG22	1:D:781:VAL:HG12	1.91	0.52
1:D:2616:PRO:HA	1:D:2619:LEU:HD12	1.92	0.52
1:D:3536:ALA:HA	1:D:3539:ARG:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:SER:O	1:C:448:LEU:HG	2.09	0.52
1:C:538:ALA:O	1:C:542:THR:HG23	2.09	0.52
1:C:2672:LEU:HD22	1:C:2710:LEU:HD12	1.92	0.52
1:C:4767:TRP:CE2	1:C:4771:ILE:HD11	2.44	0.52
1:A:211:GLU:OE2	1:A:392:ARG:NH1	2.42	0.52
1:A:347:PHE:HB3	1:A:356:TRP:CZ3	2.44	0.52
1:A:2023:LEU:HD22	1:A:2027:ILE:HG21	1.91	0.52
1:A:2570:ALA:HB2	1:A:2613:TYR:HB3	1.91	0.52
1:A:3536:ALA:HA	1:A:3539:ARG:HB2	1.92	0.52
1:A:3588:ASP:H	1:A:3591:LYS:HE3	1.75	0.52
1:B:663:TYR:CE1	1:B:745:SER:HB2	2.36	0.52
1:B:886:ARG:HD3	1:B:907:LEU:HG	1.90	0.52
1:B:2233:CYS:O	1:B:2235:PHE:N	2.42	0.52
1:B:2626:LEU:O	1:B:2630:VAL:N	2.42	0.52
1:D:484:LEU:O	1:D:488:LEU:HG	2.09	0.52
1:D:955:LEU:HD12	1:D:966:LYS:HB3	1.91	0.52
1:D:1867:GLU:CD	1:D:1928:GLN:HE22	2.15	0.52
1:D:2570:ALA:HB2	1:D:2613:TYR:HB3	1.91	0.52
1:D:2740:VAL:HG12	1:D:2818:ALA:HB1	1.91	0.52
1:D:2792:ARG:O	1:D:2855:TYR:OH	2.28	0.52
1:D:4767:TRP:CE2	1:D:4771:ILE:HD11	2.44	0.52
1:C:1005:TRP:CZ3	1:C:1018:ASN:HB2	2.45	0.52
1:C:2103:VAL:CG1	1:C:2107:GLN:HE22	2.21	0.52
1:C:2355:ARG:O	1:C:2359:ARG:HG2	2.09	0.52
1:C:2542:SER:HB2	1:C:2594:SER:HB2	1.90	0.52
1:C:2623:LEU:O	1:C:2627:VAL:HG23	2.09	0.52
1:C:3244:PRO:HD2	1:C:3249:LEU:HD21	1.91	0.52
1:C:3536:ALA:HA	1:C:3539:ARG:HB2	1.92	0.52
1:C:4018:ASP:HA	1:C:4021:LYS:HE3	1.91	0.52
1:A:20:VAL:HB	1:A:202:MET:HE2	1.92	0.52
1:A:181:HIS:HA	1:A:198:THR:HB	1.91	0.52
1:A:1005:TRP:CZ3	1:A:1018:ASN:HB2	2.45	0.52
1:A:3123:LYS:HG3	1:A:3126:GLY:H	1.75	0.52
1:B:293:LEU:HD13	1:B:378:LEU:HD23	1.90	0.52
1:B:941:MET:HE2	1:B:941:MET:N	2.23	0.52
1:B:2023:LEU:HD22	1:B:2027:ILE:HG21	1.91	0.52
1:B:2616:PRO:HA	1:B:2619:LEU:HD12	1.92	0.52
1:D:347:PHE:HB3	1:D:356:TRP:CZ3	2.44	0.52
1:D:865:PRO:O	1:D:869:ARG:HG2	2.10	0.52
1:D:3499:ARG:HG3	1:D:3502:ARG:HH22	1.75	0.52
1:D:5019:TRP:HH2	6:D:5304:PNX:HAA2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2265:LEU:HD13	1:C:2331:TYR:CE2	2.44	0.52
1:C:2447:LYS:HZ3	1:C:2449:GLU:HB3	1.74	0.52
1:A:659:TYR:O	1:A:662:TRP:NE1	2.43	0.52
1:A:2514:ASN:HB2	1:A:2517:PHE:HB3	1.91	0.52
1:A:2595:LEU:O	1:A:2600:ARG:NH2	2.43	0.52
1:A:2672:LEU:HD22	1:A:2710:LEU:HD12	1.92	0.52
1:A:3019:SER:HB2	1:A:3030:HIS:HA	1.92	0.52
1:A:3207:GLU:HG2	1:A:3210:LEU:HD12	1.92	0.52
1:A:3364:ARG:HA	1:A:3367:LYS:HG2	1.91	0.52
2:H:7:ILE:HD11	2:H:73:LYS:HB2	1.90	0.52
1:B:155:LYS:HG3	1:B:156:GLN:H	1.72	0.52
1:B:707:VAL:HG23	1:B:713:SER:HB2	1.91	0.52
1:B:865:PRO:O	1:B:869:ARG:HG2	2.10	0.52
1:B:955:LEU:HD12	1:B:966:LYS:HB3	1.91	0.52
1:B:975:VAL:HG11	1:B:1044:ARG:O	2.10	0.52
1:B:2140:ARG:NH2	1:B:2201:LEU:HD23	2.25	0.52
1:B:2595:LEU:O	1:B:2600:ARG:NH2	2.43	0.52
1:B:2993:GLN:N	1:B:2993:GLN:OE1	2.42	0.52
1:B:3536:ALA:HA	1:B:3539:ARG:HB2	1.92	0.52
1:D:20:VAL:HB	1:D:202:MET:HE2	1.92	0.52
1:D:1005:TRP:CZ3	1:D:1018:ASN:HB2	2.45	0.52
1:D:2157:GLU:O	1:D:2161:GLN:HG2	2.10	0.52
1:D:2233:CYS:O	1:D:2235:PHE:N	2.42	0.52
1:D:3123:LYS:HG3	1:D:3126:GLY:H	1.74	0.52
1:D:3733:CYS:HB2	1:D:3803:SER:OG	2.10	0.52
1:C:600:LEU:HD11	1:C:1669:LEU:HD22	1.91	0.52
1:C:1459:GLN:OE1	1:C:1459:GLN:N	2.41	0.52
1:C:2135:LEU:HA	1:C:2138:LEU:HD12	1.92	0.52
1:C:2272:PRO:O	1:C:2275:VAL:HG12	2.09	0.52
1:C:3123:LYS:HG3	1:C:3126:GLY:H	1.74	0.52
1:C:3262:ARG:HH22	1:C:3325:ASN:HB3	1.73	0.52
1:C:3499:ARG:HG3	1:C:3502:ARG:HH22	1.75	0.52
1:A:72:SER:HB3	1:A:101:LEU:HD22	1.92	0.52
1:A:484:LEU:O	1:A:488:LEU:HG	2.09	0.52
1:A:615:ARG:NH2	1:A:1676:LEU:O	2.43	0.52
1:A:862:VAL:HG12	1:A:864:PRO:HD3	1.91	0.52
1:A:1240:LYS:CB	1:A:1604:SER:O	2.57	0.52
1:A:2003:GLN:HB2	1:A:3652:MET:HE2	1.92	0.52
1:A:3392:LEU:HA	1:A:3395:ARG:HB2	1.91	0.52
1:A:3733:CYS:HB2	1:A:3803:SER:OG	2.10	0.52
1:A:4658:ILE:HD13	1:A:4792:LEU:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:444:SER:O	1:B:448:LEU:HG	2.09	0.52
1:B:659:TYR:O	1:B:662:TRP:NE1	2.43	0.52
1:B:2258:LEU:HB3	1:B:2297:LYS:HE2	1.92	0.52
1:B:2272:PRO:O	1:B:2275:VAL:HG12	2.09	0.52
1:B:2355:ARG:O	1:B:2359:ARG:HG2	2.09	0.52
1:B:3017:PHE:HA	1:B:3031:ALA:HB2	1.91	0.52
1:B:3262:ARG:HH22	1:B:3325:ASN:HB3	1.73	0.52
1:B:3499:ARG:HG3	1:B:3502:ARG:HH22	1.74	0.52
1:B:3588:ASP:H	1:B:3591:LYS:HE3	1.75	0.52
1:B:4947:GLN:HB3	1:B:4951:LYS:NZ	2.24	0.52
1:D:753:PRO:HB2	1:D:771:PHE:CZ	2.45	0.52
1:D:1008:SER:HB2	1:D:1017:ARG:HB3	1.90	0.52
1:D:1423:ASP:HB3	1:D:1426:ILE:HG22	1.91	0.52
1:D:2470:ILE:HA	1:D:2499:LYS:HE3	1.91	0.52
1:D:2694:GLU:OE2	1:D:2697:ARG:NE	2.40	0.52
1:D:2891:LYS:O	1:D:2895:GLU:HB3	2.10	0.52
1:D:2993:GLN:OE1	1:D:2993:GLN:N	2.42	0.52
1:D:3364:ARG:HA	1:D:3367:LYS:HG2	1.91	0.52
1:C:615:ARG:NH2	1:C:1676:LEU:O	2.43	0.52
1:C:2106:ALA:HB1	1:C:3697:PRO:HG3	1.91	0.52
1:C:2328:GLY:O	1:C:2332:LEU:HG	2.09	0.52
1:C:2616:PRO:HA	1:C:2619:LEU:HD12	1.92	0.52
1:C:3392:LEU:HA	1:C:3395:ARG:HB2	1.91	0.52
1:C:3648:ARG:HA	1:C:3651:ASN:HD22	1.75	0.52
1:C:4947:GLN:HB3	1:C:4951:LYS:NZ	2.24	0.52
1:A:835:ARG:HG3	1:A:838:HIS:NE2	2.25	0.52
1:A:2258:LEU:HB3	1:A:2297:LYS:HE2	1.92	0.52
1:A:2577:ILE:HG13	1:A:2578:MET:H	1.74	0.52
1:A:2616:PRO:HA	1:A:2619:LEU:HD12	1.92	0.52
1:A:4888:TYR:HD1	1:B:4914:VAL:HG13	1.74	0.52
1:B:20:VAL:HB	1:B:202:MET:HE2	1.92	0.52
1:B:862:VAL:HG12	1:B:864:PRO:HD3	1.90	0.52
1:B:1423:ASP:HB3	1:B:1426:ILE:HG22	1.91	0.52
1:B:1576:SER:HA	1:B:1579:MET:HE2	1.91	0.52
1:B:4658:ILE:HD13	1:B:4792:LEU:HB3	1.92	0.52
1:D:72:SER:HB3	1:D:101:LEU:HD22	1.92	0.52
1:D:155:LYS:HG3	1:D:156:GLN:H	1.72	0.52
1:D:600:LEU:HD11	1:D:1669:LEU:HD22	1.91	0.52
1:D:2106:ALA:HB1	1:D:3697:PRO:HG3	1.91	0.52
1:D:2135:LEU:HA	1:D:2138:LEU:HD12	1.92	0.52
1:D:2542:SER:HB2	1:D:2594:SER:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2747:ILE:HG22	1:D:2814:LYS:HE2	1.91	0.52
1:D:2951:ILE:HG21	1:D:3032:SER:OG	2.10	0.52
1:C:20:VAL:HB	1:C:202:MET:HE2	1.92	0.52
1:C:975:VAL:HG11	1:C:1044:ARG:O	2.10	0.52
1:C:3878:ASP:OD1	1:C:3879:GLU:N	2.43	0.52
1:A:444:SER:O	1:A:448:LEU:HG	2.09	0.52
1:A:2891:LYS:O	1:A:2895:GLU:HB3	2.10	0.52
1:B:684:VAL:HG22	1:B:781:VAL:HG12	1.91	0.52
1:B:788:LYS:HE2	1:B:1629:GLN:HG3	1.90	0.52
1:B:4068:LEU:O	1:B:4072:VAL:HG13	2.10	0.52
1:B:5019:TRP:HH2	6:B:5304:PNX:HAA2	1.75	0.52
1:D:1078:GLU:HB3	1:D:1081:TYR:HD2	1.74	0.52
1:D:1101:ARG:NH1	1:D:1114:GLU:OE2	2.35	0.52
1:D:2812:SER:HB2	1:D:2882:TYR:CE1	2.45	0.52
1:D:3207:GLU:HG2	1:D:3210:LEU:HD12	1.92	0.52
1:D:3498:ARG:HD3	1:D:3501:ASP:HB2	1.91	0.52
1:D:3648:ARG:HA	1:D:3651:ASN:HD22	1.75	0.52
1:C:155:LYS:HG3	1:C:156:GLN:H	1.72	0.52
1:C:484:LEU:O	1:C:488:LEU:HG	2.09	0.52
1:C:753:PRO:HB2	1:C:771:PHE:CZ	2.45	0.52
1:C:792:LEU:HD22	1:C:798:GLY:HA3	1.92	0.52
1:C:1576:SER:HA	1:C:1579:MET:HE2	1.91	0.52
1:C:2615:ARG:HB2	1:C:2618:MET:CE	2.37	0.52
1:C:2789:PRO:O	1:C:2792:ARG:NE	2.42	0.52
1:C:3157:ILE:HG22	1:C:3162:GLN:CD	2.35	0.52
1:C:3398:PHE:O	1:C:3402:CYS:N	2.34	0.52
1:C:3498:ARG:HD3	1:C:3501:ASP:HB2	1.91	0.52
1:C:3733:CYS:HB2	1:C:3803:SER:OG	2.10	0.52
1:A:131:LEU:O	1:A:178:ARG:NE	2.34	0.52
1:A:2135:LEU:HA	1:A:2138:LEU:HD12	1.92	0.52
1:A:2233:CYS:O	1:A:2235:PHE:N	2.42	0.52
1:A:2316:LYS:NZ	1:A:2412:GLU:OE2	2.43	0.52
1:A:2816:MET:HE1	1:A:2823:ILE:HD13	1.92	0.52
1:A:3092:LEU:HG	1:A:3096:PHE:CE2	2.45	0.52
1:A:3157:ILE:HG22	1:A:3162:GLN:CD	2.35	0.52
1:A:3499:ARG:HG3	1:A:3502:ARG:HH22	1.75	0.52
1:A:4223:ASN:HB3	1:A:4224:GLU:OE1	2.10	0.52
1:A:5019:TRP:HH2	6:A:5304:PNX:HAA2	1.75	0.52
2:E:7:ILE:HD11	2:E:73:LYS:HB2	1.90	0.52
1:B:615:ARG:NH2	1:B:1676:LEU:O	2.43	0.52
1:B:792:LEU:HD22	1:B:798:GLY:HA3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2812:SER:HB2	1:B:2882:TYR:CE1	2.45	0.52
1:D:2803:GLU:OE1	1:D:2806:ARG:NE	2.42	0.52
1:D:3020:THR:OG1	1:D:3023:LYS:O	2.23	0.52
1:D:3092:LEU:HG	1:D:3096:PHE:CE2	2.45	0.52
1:D:4947:GLN:HB3	1:D:4951:LYS:NZ	2.24	0.52
1:C:835:ARG:HG3	1:C:838:HIS:NE2	2.25	0.52
1:C:2233:CYS:O	1:C:2235:PHE:N	2.42	0.52
1:C:2951:ILE:HG21	1:C:3032:SER:OG	2.10	0.52
1:A:259:LEU:HD11	1:A:397:GLU:HG2	1.93	0.51
1:A:1268:PRO:HB2	1:A:1591:CYS:HB2	1.91	0.51
1:A:1423:ASP:HB3	1:A:1426:ILE:HG22	1.91	0.51
1:A:2755:ILE:HD11	1:A:2813:LEU:HD23	1.92	0.51
1:A:3017:PHE:HA	1:A:3031:ALA:HB2	1.91	0.51
1:B:181:HIS:HA	1:B:198:THR:HB	1.91	0.51
1:B:2103:VAL:CG1	1:B:2107:GLN:HE22	2.21	0.51
1:B:2633:LEU:HB2	1:B:2689:LYS:HE2	1.92	0.51
1:B:3019:SER:HB2	1:B:3030:HIS:HA	1.92	0.51
1:B:3104:GLU:HA	1:B:3107:VAL:HG22	1.93	0.51
1:B:3364:ARG:HA	1:B:3367:LYS:HG2	1.91	0.51
1:B:3648:ARG:HA	1:B:3651:ASN:HD22	1.75	0.51
1:D:444:SER:O	1:D:448:LEU:HG	2.09	0.51
1:D:2816:MET:HE1	1:D:2823:ILE:HD13	1.93	0.51
1:C:865:PRO:O	1:C:869:ARG:HG2	2.10	0.51
1:C:890:GLY:HA3	1:C:902:ARG:NH2	2.25	0.51
1:C:2157:GLU:O	1:C:2161:GLN:HG2	2.10	0.51
1:C:2595:LEU:O	1:C:2600:ARG:NH2	2.43	0.51
1:C:2599:GLN:O	1:C:2603:ILE:HG13	2.10	0.51
1:C:2626:LEU:O	1:C:2630:VAL:N	2.43	0.51
1:A:244:LEU:HB3	1:A:375:LYS:HZ3	1.75	0.51
1:A:865:PRO:O	1:A:869:ARG:HG2	2.10	0.51
1:A:2106:ALA:HB1	1:A:3697:PRO:HG3	1.91	0.51
1:A:2159:LEU:HD21	1:A:2203:MET:HE2	1.92	0.51
1:A:2740:VAL:HG12	1:A:2818:ALA:HB1	1.91	0.51
1:A:2788:HIS:CE1	1:A:2790:MET:HE2	2.45	0.51
1:A:2792:ARG:O	1:A:2855:TYR:OH	2.28	0.51
1:A:2812:SER:HB2	1:A:2882:TYR:CE1	2.45	0.51
1:A:3753:PHE:HA	1:A:3756:LYS:NZ	2.25	0.51
1:A:4068:LEU:O	1:A:4072:VAL:HG13	2.10	0.51
2:E:73:LYS:HZ3	2:E:100:ASP:HB2	1.75	0.51
1:B:2135:LEU:HA	1:B:2138:LEU:HD12	1.92	0.51
1:B:2672:LEU:HD22	1:B:2710:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3092:LEU:HG	1:B:3096:PHE:CE2	2.45	0.51
1:B:3157:ILE:HG22	1:B:3162:GLN:CD	2.35	0.51
1:B:3392:LEU:HA	1:B:3395:ARG:HB2	1.90	0.51
1:D:871:ARG:HH22	1:D:922:LEU:C	2.19	0.51
1:D:1155:LEU:HD12	1:D:1184:ILE:HG23	1.92	0.51
1:D:1240:LYS:CB	1:D:1604:SER:O	2.57	0.51
1:D:2599:GLN:O	1:D:2603:ILE:HG13	2.10	0.51
1:D:3147:ILE:CD1	1:D:3152:PHE:HB2	2.39	0.51
1:C:259:LEU:HD11	1:C:397:GLU:HG2	1.93	0.51
1:C:2993:GLN:OE1	1:C:2993:GLN:N	2.42	0.51
1:C:4223:ASN:HB3	1:C:4224:GLU:OE1	2.10	0.51
1:A:225:GLY:HA2	1:B:155:LYS:NZ	2.25	0.51
1:A:753:PRO:HB2	1:A:771:PHE:CZ	2.45	0.51
1:A:871:ARG:HH22	1:A:922:LEU:C	2.19	0.51
1:A:2623:LEU:O	1:A:2627:VAL:HG23	2.09	0.51
1:A:3984:ARG:NH1	1:B:161:GLU:HG3	2.25	0.51
1:B:259:LEU:HD11	1:B:397:GLU:HG2	1.93	0.51
1:B:871:ARG:HH22	1:B:922:LEU:C	2.19	0.51
1:B:2003:GLN:HB2	1:B:3652:MET:HE2	1.92	0.51
1:B:3733:CYS:HB2	1:B:3803:SER:OG	2.10	0.51
1:B:4892:ARG:HH12	1:C:4898:GLY:N	2.07	0.51
1:D:2514:ASN:HB2	1:D:2517:PHE:HB3	1.91	0.51
1:D:3019:SER:HB2	1:D:3030:HIS:HA	1.92	0.51
1:D:3270:ILE:HG23	1:D:3274:LEU:HD12	1.93	0.51
1:D:3878:ASP:OD1	1:D:3879:GLU:N	2.43	0.51
1:C:2258:LEU:HB3	1:C:2297:LYS:HE2	1.92	0.51
1:A:2612[A]:ARG:HH11	1:A:2612[A]:ARG:CB	2.20	0.51
1:B:72:SER:HB3	1:B:101:LEU:HD22	1.92	0.51
1:B:753:PRO:HB2	1:B:771:PHE:CZ	2.45	0.51
1:B:1023:PRO:O	1:B:1027:LEU:N	2.44	0.51
1:B:1078:GLU:HB3	1:B:1081:TYR:HD2	1.74	0.51
1:B:3036:LYS:HD2	1:B:3076:ASP:H	1.76	0.51
1:D:2676:ARG:HB2	1:D:2714:TYR:HH	1.75	0.51
1:D:2788:HIS:CE1	1:D:2790:MET:HE2	2.45	0.51
1:C:659:TYR:O	1:C:662:TRP:NE1	2.42	0.51
1:C:1119:GLU:HA	1:C:1133:HIS:NE2	2.26	0.51
1:C:1854:PHE:HD2	1:C:1858:ASP:HB3	1.76	0.51
1:C:1867:GLU:CD	1:C:1928:GLN:HE22	2.15	0.51
1:C:2294:ASP:OD1	1:C:2297:LYS:NZ	2.43	0.51
1:C:3141:THR:CG2	1:C:3145:GLN:HE22	2.24	0.51
1:C:3673:MET:SD	1:C:3728:ILE:HD13	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:975:VAL:HG11	1:A:1044:ARG:O	2.10	0.51
1:A:1155:LEU:HD12	1:A:1184:ILE:HG23	1.92	0.51
1:A:2157:GLU:O	1:A:2161:GLN:HG2	2.10	0.51
1:A:2633:LEU:HB2	1:A:2689:LYS:HE2	1.92	0.51
1:A:2986:VAL:HG22	1:A:2988:LYS:H	1.76	0.51
1:A:3647:HIS:O	1:A:3651:ASN:ND2	2.44	0.51
1:A:4040:ILE:HG22	1:A:4044:MET:HE2	1.93	0.51
1:B:835:ARG:HG3	1:B:838:HIS:NE2	2.25	0.51
1:B:1119:GLU:HA	1:B:1133:HIS:NE2	2.25	0.51
1:B:2469:ILE:HD13	1:B:2502:MET:HE3	1.93	0.51
1:B:2788:HIS:CE1	1:B:2790:MET:HE2	2.45	0.51
1:B:2986:VAL:HG22	1:B:2988:LYS:H	1.76	0.51
1:B:3123:LYS:HG3	1:B:3126:GLY:H	1.75	0.51
1:B:3270:ILE:HG23	1:B:3274:LEU:HD12	1.93	0.51
1:B:3673:MET:SD	1:B:3728:ILE:HD13	2.50	0.51
1:D:259:LEU:HD11	1:D:397:GLU:HG2	1.92	0.51
1:D:716:PHE:CE1	1:D:764:VAL:HG11	2.46	0.51
1:D:975:VAL:HG11	1:D:1044:ARG:O	2.10	0.51
1:D:1977:TYR:O	1:D:1981:MET:HG3	2.11	0.51
1:D:2140:ARG:NH2	1:D:2201:LEU:HD23	2.25	0.51
1:D:2595:LEU:O	1:D:2600:ARG:NH2	2.43	0.51
1:D:3588:ASP:H	1:D:3591:LYS:HE3	1.74	0.51
1:D:4223:ASN:HB3	1:D:4224:GLU:OE1	2.10	0.51
1:C:72:SER:HB3	1:C:101:LEU:HD22	1.92	0.51
1:C:3019:SER:HB2	1:C:3030:HIS:HA	1.92	0.51
1:C:4683:PHE:CZ	1:C:5017:ARG:HG3	2.46	0.51
1:A:1657:LEU:O	1:A:1661:ARG:N	2.37	0.51
1:A:2747:ILE:HG22	1:A:2814:LYS:HE2	1.91	0.51
1:A:3036:LYS:HD2	1:A:3076:ASP:H	1.76	0.51
1:A:3270:ILE:HG23	1:A:3274:LEU:HD12	1.93	0.51
1:A:3667:HIS:CE1	1:A:3669:PHE:HB3	2.46	0.51
1:B:1743[B]:ARG:HH22	1:B:1967:ASP:CG	2.19	0.51
1:B:2469:ILE:HA	1:B:2472:LEU:HD12	1.93	0.51
1:B:2816:MET:HE1	1:B:2823:ILE:HD13	1.92	0.51
1:B:3039:ILE:HA	1:B:3042:LEU:HD12	1.93	0.51
1:B:3100:SER:O	1:B:3103:ILE:N	2.43	0.51
1:B:3546:ASP:O	1:B:3550:ARG:HG2	2.11	0.51
1:B:4683:PHE:CZ	1:B:5017:ARG:HG3	2.46	0.51
1:D:615:ARG:NH2	1:D:1676:LEU:O	2.43	0.51
1:D:2159:LEU:HD21	1:D:2203:MET:HE2	1.92	0.51
1:D:2258:LEU:HB3	1:D:2297:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3100:SER:O	1:D:3103:ILE:N	2.43	0.51
1:D:3157:ILE:HG22	1:D:3162:GLN:CD	2.35	0.51
1:D:3206:LEU:HD12	1:D:3280:TYR:CZ	2.46	0.51
1:D:3673:MET:SD	1:D:3728:ILE:HD13	2.50	0.51
1:D:3753:PHE:HA	1:D:3756:LYS:NZ	2.25	0.51
1:C:1155:LEU:HD12	1:C:1184:ILE:HG23	1.93	0.51
1:C:1691:GLN:OE1	1:C:1691:GLN:N	2.43	0.51
1:C:2788:HIS:CE1	1:C:2790:MET:HE2	2.45	0.51
1:A:1119:GLU:HA	1:A:1133:HIS:NE2	2.25	0.51
1:A:2140:ARG:NH2	1:A:2201:LEU:HD23	2.25	0.51
1:A:3037:GLU:HG3	1:A:3080:VAL:HG22	1.92	0.51
1:A:3039:ILE:HA	1:A:3042:LEU:HD12	1.93	0.51
1:A:3104:GLU:HA	1:A:3107:VAL:HG22	1.93	0.51
1:B:1854:PHE:HD2	1:B:1858:ASP:HB3	1.76	0.51
1:B:2294:ASP:OD1	1:B:2297:LYS:NZ	2.43	0.51
1:B:2891:LYS:O	1:B:2895:GLU:HB3	2.10	0.51
1:B:3037:GLU:HG3	1:B:3080:VAL:HG22	1.92	0.51
1:B:3667:HIS:CE1	1:B:3669:PHE:HB3	2.46	0.51
1:B:4223:ASN:HB3	1:B:4224:GLU:OE1	2.10	0.51
1:D:890:GLY:HA3	1:D:902:ARG:NH2	2.25	0.51
1:D:2207:VAL:HG12	1:D:2211:MET:HE3	1.93	0.51
1:D:2789:PRO:O	1:D:2792:ARG:NE	2.41	0.51
1:D:4040:ILE:HG22	1:D:4044:MET:HE2	1.93	0.51
1:D:4658:ILE:HD13	1:D:4792:LEU:HB3	1.92	0.51
1:C:25:SER:OG	1:C:32:GLN:NE2	2.38	0.51
1:C:1657:LEU:O	1:C:1661:ARG:N	2.37	0.51
1:C:2469:ILE:HA	1:C:2472:LEU:HD12	1.93	0.51
1:C:2986:VAL:HG22	1:C:2988:LYS:H	1.76	0.51
1:C:3410:PRO:HD3	1:C:3509:LEU:HD13	1.92	0.51
1:C:4068:LEU:O	1:C:4072:VAL:HG13	2.10	0.51
1:C:4569:LEU:HD11	1:C:4646:LEU:HD22	1.92	0.51
1:A:716:PHE:CE1	1:A:764:VAL:HG11	2.46	0.51
1:A:890:GLY:HA3	1:A:902:ARG:NH2	2.25	0.51
1:A:1023:PRO:O	1:A:1027:LEU:N	2.44	0.51
1:A:2599:GLN:O	1:A:2603:ILE:HG13	2.10	0.51
1:A:4063:ASP:OD1	1:A:4064:MET:N	2.44	0.51
1:B:2157:GLU:O	1:B:2161:GLN:HG2	2.10	0.51
1:B:2534:ALA:HA	1:B:2588:ARG:NH1	2.21	0.51
1:B:2951:ILE:HG21	1:B:3032:SER:OG	2.10	0.51
1:B:3103:ILE:HG21	1:B:3168:THR:HG23	1.92	0.51
1:B:3753:PHE:HA	1:B:3756:LYS:NZ	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3878:ASP:OD1	1:B:3879:GLU:N	2.43	0.51
1:B:4040:ILE:HG22	1:B:4044:MET:HE2	1.93	0.51
1:D:426:ARG:NH1	1:D:427:GLY:O	2.44	0.51
1:D:2623:LEU:O	1:D:2627:VAL:HG23	2.10	0.51
1:D:2763:HIS:HB2	1:D:2802:LYS:NZ	2.26	0.51
1:D:3039:ILE:HA	1:D:3042:LEU:HD12	1.93	0.51
1:D:3084:GLY:HA3	1:D:3089:LYS:HZ3	1.75	0.51
1:D:4063:ASP:OD1	1:D:4064:MET:N	2.44	0.51
1:C:16:THR:OG1	1:C:99:ARG:N	2.41	0.51
1:C:244:LEU:HB3	1:C:375:LYS:HZ3	1.76	0.51
1:C:2812:SER:HB2	1:C:2882:TYR:CE1	2.45	0.51
1:C:2816:MET:HE1	1:C:2823:ILE:HD13	1.92	0.51
1:C:3036:LYS:HD2	1:C:3076:ASP:H	1.76	0.51
1:C:3104:GLU:HA	1:C:3107:VAL:HG22	1.93	0.51
1:C:3207:GLU:HG2	1:C:3210:LEU:HD12	1.92	0.51
1:C:3416:VAL:O	1:C:3420:ARG:N	2.44	0.51
1:C:3546:ASP:O	1:C:3550:ARG:HG2	2.11	0.51
1:C:3607:GLU:O	1:C:3611:HIS:ND1	2.44	0.51
1:C:3753:PHE:HA	1:C:3756:LYS:NZ	2.25	0.51
1:A:276:TRP:O	1:A:328:LYS:NZ	2.44	0.51
1:A:1977:TYR:O	1:A:1981:MET:HG3	2.11	0.51
1:A:2469:ILE:HD13	1:A:2502:MET:HE3	1.93	0.51
1:A:3100:SER:O	1:A:3103:ILE:N	2.43	0.51
1:A:4640:GLU:HB2	1:A:4641:PRO:HD3	1.93	0.51
1:B:1743[A]:ARG:HH22	1:B:1967:ASP:CG	2.19	0.51
1:B:2623:LEU:O	1:B:2627:VAL:HG23	2.09	0.51
1:B:3078:ARG:NH1	1:B:3152:PHE:HD1	2.09	0.51
1:D:1119:GLU:HA	1:D:1133:HIS:NE2	2.25	0.51
1:D:2637:ALA:C	1:D:2640:PRO:HD2	2.36	0.51
1:D:3416:VAL:O	1:D:3420:ARG:N	2.44	0.51
1:C:1023:PRO:O	1:C:1027:LEU:N	2.44	0.51
1:C:2023:LEU:HD22	1:C:2027:ILE:HG21	1.91	0.51
1:C:2355:ARG:HE	1:C:2358:ILE:HD11	1.76	0.51
1:C:2747:ILE:HG22	1:C:2814:LYS:HE2	1.91	0.51
1:C:2755:ILE:HD11	1:C:2813:LEU:HD23	1.92	0.51
1:C:2792:ARG:O	1:C:2855:TYR:OH	2.28	0.51
1:C:3039:ILE:HA	1:C:3042:LEU:HD12	1.93	0.51
1:A:2294:ASP:OD1	1:A:2297:LYS:NZ	2.43	0.51
1:A:3206:LEU:HD12	1:A:3280:TYR:CZ	2.46	0.51
1:A:4569:LEU:HD11	1:A:4646:LEU:HD22	1.92	0.51
1:B:1005:TRP:CZ3	1:B:1018:ASN:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2763:HIS:HB2	1:B:2802:LYS:NZ	2.26	0.51
1:B:3207:GLU:HG2	1:B:3210:LEU:HD12	1.92	0.51
1:D:792:LEU:HD22	1:D:798:GLY:HA3	1.92	0.51
1:D:2490:MET:H	1:D:2490:MET:HE2	1.76	0.51
1:D:2615:ARG:HB2	1:D:2618:MET:CE	2.38	0.51
1:C:716:PHE:CE1	1:C:764:VAL:HG11	2.46	0.51
1:C:3037:GLU:HG3	1:C:3080:VAL:HG22	1.92	0.51
1:C:3078:ARG:NH1	1:C:3152:PHE:HD1	2.09	0.51
1:C:3100:SER:O	1:C:3103:ILE:N	2.43	0.51
1:C:3206:LEU:HD12	1:C:3280:TYR:CZ	2.46	0.51
1:C:4063:ASP:OD1	1:C:4064:MET:N	2.44	0.51
1:A:213:TYR:N	1:A:341:TYR:H	2.08	0.50
1:A:231:LEU:HB2	1:A:247:TYR:CE1	2.47	0.50
1:A:792:LEU:HD22	1:A:798:GLY:HA3	1.92	0.50
1:A:2951:ILE:HG21	1:A:3032:SER:OG	2.10	0.50
1:A:3062:PRO:HA	1:A:3065:VAL:HG22	1.94	0.50
1:A:3673:MET:SD	1:A:3728:ILE:HD13	2.50	0.50
1:A:3734:HIS:CD2	1:A:3736:GLU:H	2.27	0.50
1:B:2755:ILE:HD11	1:B:2813:LEU:HD23	1.92	0.50
1:B:4063:ASP:OD1	1:B:4064:MET:N	2.44	0.50
1:D:16:THR:OG1	1:D:99:ARG:N	2.41	0.50
1:D:3354:LEU:HA	1:D:3358:PHE:CD2	2.42	0.50
1:C:426:ARG:NH1	1:C:427:GLY:O	2.43	0.50
1:C:871:ARG:HH22	1:C:922:LEU:C	2.19	0.50
1:C:2140:ARG:NH2	1:C:2201:LEU:HD23	2.25	0.50
1:C:2490:MET:HE2	1:C:2490:MET:H	1.76	0.50
1:C:3092:LEU:HG	1:C:3096:PHE:CE2	2.45	0.50
1:C:3270:ILE:HG23	1:C:3274:LEU:HD12	1.93	0.50
1:C:3588:ASP:H	1:C:3591:LYS:HE3	1.75	0.50
1:C:3695:PRO:HB3	1:C:3699:HIS:HD2	1.76	0.50
1:C:4189:ARG:HB3	1:C:5031:GLN:NE2	2.27	0.50
1:A:426:ARG:NH1	1:A:427:GLY:O	2.44	0.50
1:A:2207:VAL:HG12	1:A:2211:MET:HE3	1.93	0.50
1:A:2637:ALA:C	1:A:2640:PRO:HD2	2.36	0.50
1:A:3078:ARG:NH1	1:A:3152:PHE:HD1	2.09	0.50
1:A:3081:MET:HA	1:A:3089:LYS:HE3	1.94	0.50
1:A:3416:VAL:O	1:A:3420:ARG:N	2.44	0.50
1:B:1122:TYR:HE1	1:B:1133:HIS:CE1	2.29	0.50
1:B:1155:LEU:HD12	1:B:1184:ILE:HG23	1.92	0.50
1:B:1977:TYR:O	1:B:1981:MET:HG3	2.11	0.50
1:B:2875:ALA:HB3	1:B:2920:ARG:HH22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3607:GLU:O	1:B:3611:HIS:ND1	2.44	0.50
1:D:231:LEU:HB2	1:D:247:TYR:CE1	2.47	0.50
1:D:2355:ARG:HE	1:D:2358:ILE:HD11	1.76	0.50
1:D:2469:ILE:HA	1:D:2472:LEU:HD12	1.93	0.50
1:D:2986:VAL:HG22	1:D:2988:LYS:H	1.76	0.50
1:D:3062:PRO:HA	1:D:3065:VAL:HG22	1.93	0.50
1:D:3104:GLU:HA	1:D:3107:VAL:HG22	1.93	0.50
1:D:4683:PHE:CZ	1:D:5017:ARG:HG3	2.46	0.50
1:C:257:ARG:O	1:C:284:HIS:NE2	2.29	0.50
1:C:1423:ASP:HB3	1:C:1426:ILE:HG22	1.91	0.50
1:C:2367:ALA:HB3	1:C:2426:TYR:CE1	2.47	0.50
1:C:2788:HIS:CG	1:C:2789:PRO:HD2	2.46	0.50
1:C:3084:GLY:HA3	1:C:3089:LYS:HZ3	1.75	0.50
1:C:4658:ILE:HD13	1:C:4792:LEU:HB3	1.92	0.50
1:A:1207:ASP:O	1:A:1210:SER:OG	2.30	0.50
1:A:2469:ILE:HA	1:A:2472:LEU:HD12	1.93	0.50
1:A:3546:ASP:O	1:A:3550:ARG:HG2	2.11	0.50
1:A:3648:ARG:HA	1:A:3651:ASN:HD22	1.75	0.50
1:A:3878:ASP:OD1	1:A:3879:GLU:N	2.43	0.50
1:A:4189:ARG:HB3	1:A:5031:GLN:NE2	2.26	0.50
1:B:2367:ALA:HB3	1:B:2426:TYR:CE1	2.47	0.50
1:D:70:GLU:OE2	1:D:110:ARG:NE	2.45	0.50
1:D:3530:GLN:O	1:D:3534:MET:HE3	2.12	0.50
1:D:3647:HIS:O	1:D:3651:ASN:ND2	2.44	0.50
1:D:4068:LEU:O	1:D:4072:VAL:HG13	2.10	0.50
1:C:2534:ALA:HA	1:C:2588:ARG:NH1	2.21	0.50
1:C:2875:ALA:HB3	1:C:2920:ARG:HH22	1.76	0.50
1:C:3647:HIS:O	1:C:3651:ASN:ND2	2.44	0.50
1:C:5019:TRP:HH2	6:C:5304:PNX:HAA2	1.75	0.50
1:A:1122:TYR:HE1	1:A:1133:HIS:CE1	2.29	0.50
1:A:2123:LEU:O	1:A:2127:GLN:HG2	2.12	0.50
1:A:2265:LEU:HB2	1:A:2330:ARG:HD2	1.94	0.50
1:A:2367:ALA:HB3	1:A:2426:TYR:CE1	2.47	0.50
1:A:2875:ALA:HB3	1:A:2920:ARG:HH22	1.76	0.50
1:A:2993:GLN:OE1	1:A:2993:GLN:N	2.42	0.50
1:A:3607:GLU:O	1:A:3611:HIS:ND1	2.44	0.50
1:A:3696:ASP:OD2	1:A:3773:ARG:NH2	2.45	0.50
1:A:3868:ARG:HH22	1:A:3870:ASN:HB3	1.76	0.50
1:B:426:ARG:NH1	1:B:427:GLY:O	2.44	0.50
1:B:890:GLY:HA3	1:B:902:ARG:NH2	2.25	0.50
1:B:2355:ARG:HE	1:B:2358:ILE:HD11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3416:VAL:O	1:B:3420:ARG:N	2.44	0.50
1:B:3696:ASP:OD2	1:B:3773:ARG:NH2	2.45	0.50
1:B:4189:ARG:HB3	1:B:5031:GLN:NE2	2.27	0.50
1:D:276:TRP:O	1:D:328:LYS:NZ	2.44	0.50
1:D:1109:LEU:HA	1:D:1120:LEU:HD13	1.94	0.50
1:D:2294:ASP:OD1	1:D:2297:LYS:NZ	2.43	0.50
1:D:3410:PRO:HD3	1:D:3509:LEU:HD13	1.92	0.50
1:D:3607:GLU:O	1:D:3611:HIS:ND1	2.44	0.50
1:D:4189:ARG:HB3	1:D:5031:GLN:NE2	2.27	0.50
1:C:2159:LEU:HD21	1:C:2203:MET:HE2	1.92	0.50
1:C:2288:LEU:O	1:C:3849:ARG:NH1	2.45	0.50
1:C:2891:LYS:O	1:C:2895:GLU:HB3	2.10	0.50
1:C:2998:PHE:HA	1:C:3002:LEU:HD23	1.94	0.50
1:C:3081:MET:HA	1:C:3089:LYS:HE3	1.94	0.50
1:A:418:LEU:HA	1:A:421:PHE:CZ	2.47	0.50
1:A:613:ALA:HB2	1:A:1676:LEU:HD12	1.94	0.50
1:A:1785:ALA:H	2:E:55:VAL:HA	1.76	0.50
1:A:3103:ILE:HG21	1:A:3168:THR:HG23	1.92	0.50
1:A:3532:LEU:HD21	1:A:3553:LEU:HD22	1.94	0.50
1:A:4843:LEU:HD13	1:D:4823:LEU:HD13	1.94	0.50
1:B:240:ASP:O	1:B:243:ARG:HG2	2.11	0.50
1:B:2159:LEU:HD21	1:B:2203:MET:HE2	1.92	0.50
1:B:2265:LEU:HB2	1:B:2330:ARG:HD2	1.94	0.50
1:B:3081:MET:HA	1:B:3089:LYS:HE3	1.94	0.50
1:B:3206:LEU:HD12	1:B:3280:TYR:CZ	2.46	0.50
1:D:1122:TYR:HE1	1:D:1133:HIS:CE1	2.29	0.50
1:D:1727:ARG:HB2	1:D:1775:HIS:HE1	1.77	0.50
1:D:3036:LYS:HD2	1:D:3076:ASP:H	1.76	0.50
1:D:3141:THR:CG2	1:D:3145:GLN:HE22	2.24	0.50
1:D:3667:HIS:CE1	1:D:3669:PHE:HB3	2.46	0.50
1:D:3696:ASP:OD2	1:D:3773:ARG:NH2	2.44	0.50
1:C:1109:LEU:HA	1:C:1120:LEU:HD13	1.94	0.50
1:C:2637:ALA:C	1:C:2640:PRO:HD2	2.36	0.50
1:C:2907:PRO:O	1:C:2910:THR:OG1	2.28	0.50
1:A:22:LEU:HD23	1:A:22:LEU:H	1.77	0.50
1:A:1727:ARG:HB2	1:A:1775:HIS:HE1	1.77	0.50
1:A:2355:ARG:HE	1:A:2358:ILE:HD11	1.76	0.50
1:A:3410:PRO:HD3	1:A:3509:LEU:HD13	1.92	0.50
1:A:3715:LYS:HD3	1:A:3716:LEU:O	2.11	0.50
2:F:55:VAL:HG12	2:F:56:ILE:N	2.27	0.50
1:B:265:LEU:HD12	1:B:279:PRO:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2288:LEU:O	1:B:3849:ARG:NH1	2.45	0.50
1:B:2447:LYS:HZ3	1:B:2449:GLU:HB3	1.76	0.50
1:B:2694:GLU:OE2	1:B:2697:ARG:NE	2.40	0.50
1:D:1651:LEU:O	1:D:1654:SER:OG	2.25	0.50
1:D:2265:LEU:HB2	1:D:2330:ARG:HD2	1.94	0.50
1:D:2367:ALA:HB3	1:D:2426:TYR:CE1	2.47	0.50
1:D:3103:ILE:HG21	1:D:3168:THR:HG23	1.92	0.50
1:C:70:GLU:OE2	1:C:110:ARG:NE	2.45	0.50
1:C:265:LEU:HD12	1:C:279:PRO:HB2	1.94	0.50
1:C:468:LEU:HB3	1:C:472:ARG:NH1	2.27	0.50
1:C:1470:ARG:NH2	1:C:1471:ALA:O	2.35	0.50
1:C:2265:LEU:HB2	1:C:2330:ARG:HD2	1.94	0.50
1:C:3696:ASP:OD2	1:C:3773:ARG:NH2	2.45	0.50
1:C:3715:LYS:HD3	1:C:3716:LEU:O	2.11	0.50
1:C:3990:VAL:HA	1:C:3993:LEU:HD12	1.94	0.50
1:C:4040:ILE:HG22	1:C:4044:MET:HE2	1.93	0.50
1:A:257:ARG:O	1:A:284:HIS:NE2	2.29	0.50
1:A:1743[B]:ARG:HH22	1:A:1967:ASP:CG	2.19	0.50
1:A:2763:HIS:HB2	1:A:2802:LYS:NZ	2.26	0.50
1:B:3647:HIS:O	1:B:3651:ASN:ND2	2.44	0.50
1:B:4640:GLU:HB2	1:B:4641:PRO:HD3	1.93	0.50
1:D:835:ARG:HG3	1:D:838:HIS:NE2	2.25	0.50
1:D:1271:ARG:HH22	1:D:1560:ASN:HA	1.77	0.50
1:D:2123:LEU:O	1:D:2127:GLN:HG2	2.12	0.50
1:D:2189:LYS:HZ3	1:D:2192:TYR:HB2	1.77	0.50
1:D:2875:ALA:HB2	1:D:2927:LEU:HD12	1.94	0.50
1:D:3546:ASP:O	1:D:3550:ARG:HG2	2.11	0.50
1:D:3695:PRO:HB3	1:D:3699:HIS:HD2	1.76	0.50
1:D:3734:HIS:CD2	1:D:3736:GLU:H	2.27	0.50
1:D:3842:LEU:HB2	1:D:3929:SER:CB	2.40	0.50
1:C:1122:TYR:HE1	1:C:1133:HIS:CE1	2.29	0.50
1:C:2123:LEU:O	1:C:2127:GLN:HG2	2.12	0.50
1:C:2469:ILE:HD13	1:C:2502:MET:HE3	1.93	0.50
1:C:3103:ILE:HG21	1:C:3168:THR:HG23	1.92	0.50
1:C:3530:GLN:O	1:C:3534:MET:HE3	2.12	0.50
1:C:3667:HIS:CE1	1:C:3669:PHE:HB3	2.46	0.50
1:C:3842:LEU:HB2	1:C:3929:SER:CB	2.40	0.50
1:A:3498:ARG:HD3	1:A:3501:ASP:HB2	1.92	0.50
1:B:22:LEU:HD23	1:B:22:LEU:H	1.77	0.50
1:B:418:LEU:HA	1:B:421:PHE:CZ	2.47	0.50
1:B:2998:PHE:HA	1:B:3002:LEU:HD23	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3532:LEU:HD21	1:B:3553:LEU:HD22	1.94	0.50
1:D:265:LEU:HD12	1:D:279:PRO:HB2	1.94	0.50
1:D:1854:PHE:HD2	1:D:1858:ASP:HB3	1.76	0.50
1:D:2633:LEU:HB2	1:D:2689:LYS:HE2	1.92	0.50
1:D:3283:ARG:HH12	1:D:3287:ARG:HH22	1.60	0.50
1:C:240:ASP:O	1:C:243:ARG:HG2	2.11	0.50
1:C:1582:SER:OG	1:C:1583:GLU:OE1	2.29	0.50
1:C:1727:ARG:HB2	1:C:1775:HIS:HE1	1.77	0.50
1:C:1977:TYR:O	1:C:1981:MET:HG3	2.11	0.50
1:C:2454:ARG:HE	1:C:2458:ARG:NE	2.10	0.50
1:C:2633:LEU:HB2	1:C:2689:LYS:HE2	1.92	0.50
1:C:3103:ILE:HG12	1:C:3168:THR:HG23	1.93	0.50
1:A:265:LEU:HD12	1:A:279:PRO:HB2	1.94	0.50
1:A:468:LEU:HB3	1:A:472:ARG:NH1	2.27	0.50
1:A:1743[A]:ARG:HH22	1:A:1967:ASP:CG	2.19	0.50
1:A:2788:HIS:CG	1:A:2789:PRO:HD2	2.47	0.50
1:A:3103:ILE:HG12	1:A:3168:THR:HG23	1.93	0.50
1:A:4683:PHE:CZ	1:A:5017:ARG:HG3	2.46	0.50
2:H:55:VAL:HG12	2:H:56:ILE:N	2.27	0.50
1:B:131:LEU:O	1:B:178:ARG:NE	2.34	0.50
1:B:276:TRP:O	1:B:328:LYS:NZ	2.44	0.50
1:B:2540:THR:O	1:B:2543:THR:OG1	2.27	0.50
1:B:2637:ALA:C	1:B:2640:PRO:HD2	2.36	0.50
1:B:2788:HIS:CG	1:B:2789:PRO:HD2	2.47	0.50
1:B:3062:PRO:HA	1:B:3065:VAL:HG22	1.93	0.50
1:D:42:PHE:HD1	1:D:447:ASP:HB3	1.77	0.50
1:D:206:CYS:HB2	1:D:271:GLY:HA3	1.94	0.50
1:D:2626:LEU:O	1:D:2630:VAL:N	2.42	0.50
1:D:3037:GLU:HG3	1:D:3080:VAL:HG22	1.92	0.50
1:D:3228:ALA:HA	1:D:3232:LEU:HD23	1.94	0.50
1:C:231:LEU:HB2	1:C:247:TYR:CE1	2.47	0.50
1:C:276:TRP:O	1:C:328:LYS:NZ	2.44	0.50
1:C:1237:TRP:CE3	1:C:1605:TRP:HB3	2.47	0.50
1:C:2207:VAL:HG12	1:C:2211:MET:HE3	1.93	0.50
1:C:2316:LYS:NZ	1:C:2412:GLU:OE2	2.43	0.50
1:C:2520:HIS:O	1:C:2524:VAL:HG22	2.12	0.50
1:C:2763:HIS:HB2	1:C:2802:LYS:NZ	2.26	0.50
1:C:4640:GLU:HB2	1:C:4641:PRO:HD3	1.93	0.50
1:C:4865:LYS:HG3	1:C:4875:LYS:HE2	1.94	0.50
1:A:978:THR:O	1:A:982:THR:HG23	2.12	0.49
1:A:1582:SER:OG	1:A:1583:GLU:OE1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1854:PHE:HD2	1:A:1858:ASP:HB3	1.76	0.49
1:A:2648:TYR:CD2	1:A:2706:ILE:HG12	2.47	0.49
1:A:2875:ALA:HB2	1:A:2927:LEU:HD12	1.94	0.49
1:A:3530:GLN:O	1:A:3534:MET:HE3	2.12	0.49
1:A:3758:MET:HA	1:A:3758:MET:HE3	1.94	0.49
2:E:55:VAL:HG12	2:E:56:ILE:N	2.27	0.49
2:G:55:VAL:HG12	2:G:56:ILE:N	2.27	0.49
1:B:613:ALA:HB2	1:B:1676:LEU:HD12	1.94	0.49
1:B:716:PHE:CE1	1:B:764:VAL:HG11	2.46	0.49
1:B:978:THR:O	1:B:982:THR:HG23	2.12	0.49
1:B:1651:LEU:O	1:B:1654:SER:OG	2.25	0.49
1:B:1808:ARG:HD2	1:B:1854:PHE:HA	1.94	0.49
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.12	0.49
1:B:2520:HIS:O	1:B:2524:VAL:HG22	2.12	0.49
1:B:2648:TYR:CD2	1:B:2706:ILE:HG12	2.47	0.49
1:B:2792:ARG:O	1:B:2855:TYR:OH	2.28	0.49
1:B:2875:ALA:HB2	1:B:2927:LEU:HD12	1.94	0.49
1:B:3410:PRO:HD3	1:B:3509:LEU:HD13	1.92	0.49
1:B:3734:HIS:CD2	1:B:3736:GLU:H	2.27	0.49
1:D:22:LEU:HD23	1:D:22:LEU:H	1.77	0.49
1:D:240:ASP:O	1:D:243:ARG:HG2	2.11	0.49
1:D:418:LEU:HA	1:D:421:PHE:CZ	2.47	0.49
1:D:1023:PRO:O	1:D:1027:LEU:N	2.44	0.49
1:D:1808:ARG:HD2	1:D:1854:PHE:HA	1.94	0.49
1:D:2998:PHE:HA	1:D:3002:LEU:HD23	1.94	0.49
1:D:3078:ARG:NH1	1:D:3152:PHE:HD1	2.09	0.49
1:C:3228:ALA:HA	1:C:3232:LEU:HD23	1.94	0.49
1:A:1509:ILE:HD12	1:A:1509:ILE:H	1.77	0.49
1:A:2189:LYS:HZ3	1:A:2192:TYR:HB2	1.78	0.49
1:B:42:PHE:HD1	1:B:447:ASP:HB3	1.77	0.49
1:B:231:LEU:HB2	1:B:247:TYR:CE1	2.47	0.49
1:B:2316:LYS:NZ	1:B:2412:GLU:OE2	2.43	0.49
1:B:2967:MET:HE1	1:B:3046:LEU:HG	1.94	0.49
1:B:3103:ILE:HG12	1:B:3168:THR:HG23	1.93	0.49
1:B:4967:TYR:OH	1:B:5033:GLU:OE2	2.21	0.49
1:D:360:ALA:HB2	1:D:377:ILE:HG23	1.94	0.49
1:D:1207:ASP:O	1:D:1210:SER:OG	2.30	0.49
1:D:2316:LYS:NZ	1:D:2412:GLU:OE2	2.43	0.49
1:D:2454:ARG:HE	1:D:2458:ARG:NE	2.10	0.49
1:D:3103:ILE:HG12	1:D:3168:THR:HG23	1.93	0.49
1:D:3802:ILE:HD12	1:D:3886:ARG:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:ALA:HB2	1:C:377:ILE:HG23	1.94	0.49
1:C:2215:LEU:O	1:C:2219:GLU:HB3	2.12	0.49
1:C:3802:ILE:HD12	1:C:3886:ARG:HG3	1.94	0.49
1:A:70:GLU:OE2	1:A:110:ARG:NE	2.45	0.49
1:A:1089:TYR:HB3	1:A:1225:PRO:HA	1.95	0.49
1:A:1743[B]:ARG:NH2	1:A:1967:ASP:OD2	2.32	0.49
1:A:1762:LEU:O	1:A:1765:VAL:HG12	2.13	0.49
1:A:1815:LEU:O	1:A:1819:VAL:HG23	2.12	0.49
1:A:4865:LYS:HG3	1:A:4875:LYS:HE2	1.94	0.49
1:B:1163:THR:HA	1:B:1168:VAL:HA	1.94	0.49
1:B:2170:MET:SD	1:B:2171:GLY:N	2.85	0.49
1:B:3530:GLN:O	1:B:3534:MET:HE3	2.12	0.49
1:D:978:THR:O	1:D:982:THR:HG23	2.12	0.49
1:D:2288:LEU:O	1:D:3849:ARG:NH1	2.45	0.49
1:C:1815:LEU:O	1:C:1819:VAL:HG23	2.12	0.49
1:C:2648:TYR:CD2	1:C:2706:ILE:HG12	2.47	0.49
1:C:3514:LEU:HA	1:C:3517:MET:HG2	1.94	0.49
1:A:42:PHE:HD1	1:A:447:ASP:HB3	1.77	0.49
1:A:454:PRO:HD3	1:A:531:ARG:NH2	2.27	0.49
1:A:721:LEU:HD11	1:A:768:PHE:HE1	1.76	0.49
1:A:972:LEU:HB3	1:A:1044:ARG:HG2	1.94	0.49
1:A:2865:VAL:HB	1:A:2928:LYS:HD2	1.94	0.49
1:A:3936:TYR:N	1:B:76:ARG:HH12	2.11	0.49
1:B:206:CYS:HB2	1:B:271:GLY:HA3	1.94	0.49
1:B:1582:SER:OG	1:B:1583:GLU:OE1	2.29	0.49
1:B:4232:GLU:OE1	1:B:5019:TRP:NE1	2.42	0.49
1:B:4865:LYS:HG3	1:B:4875:LYS:HE2	1.94	0.49
1:D:454:PRO:HD3	1:D:531:ARG:NH2	2.28	0.49
1:D:972:LEU:HB3	1:D:1044:ARG:HG2	1.95	0.49
1:D:1089:TYR:HB3	1:D:1225:PRO:HA	1.94	0.49
1:D:1509:ILE:H	1:D:1509:ILE:HD12	1.77	0.49
1:D:2755:ILE:HD11	1:D:2813:LEU:HD23	1.92	0.49
1:D:3081:MET:HA	1:D:3089:LYS:HE3	1.94	0.49
1:D:3868:ARG:HH22	1:D:3870:ASN:HB3	1.77	0.49
1:D:4569:LEU:HD11	1:D:4646:LEU:HD22	1.92	0.49
1:D:4865:LYS:HG3	1:D:4875:LYS:HE2	1.94	0.49
1:C:418:LEU:HA	1:C:421:PHE:CZ	2.47	0.49
1:C:719:LEU:HA	1:C:735:GLN:HE21	1.77	0.49
1:C:721:LEU:HD11	1:C:768:PHE:HE1	1.76	0.49
1:C:972:LEU:HB3	1:C:1044:ARG:HG2	1.95	0.49
1:C:2875:ALA:HB2	1:C:2927:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3951:PHE:O	1:C:3955:MET:HG3	2.13	0.49
1:C:4138:ASP:O	1:C:4142:ASN:ND2	2.37	0.49
1:A:1271:ARG:HH22	1:A:1560:ASN:HA	1.77	0.49
1:A:3283:ARG:HH12	1:A:3287:ARG:HH22	1.60	0.49
1:A:3695:PRO:HB3	1:A:3699:HIS:HD2	1.76	0.49
1:A:3802:ILE:HD12	1:A:3886:ARG:HG3	1.94	0.49
1:B:815:VAL:O	1:B:1007:TYR:OH	2.27	0.49
1:B:1089:TYR:HB3	1:B:1225:PRO:HA	1.94	0.49
1:B:2207:VAL:HG12	1:B:2211:MET:HE3	1.93	0.49
1:B:2454:ARG:HE	1:B:2458:ARG:NE	2.10	0.49
1:B:3514:LEU:HA	1:B:3517:MET:HG2	1.94	0.49
1:B:3622:LYS:HB2	1:B:3625:SER:OG	2.13	0.49
1:B:3951:PHE:O	1:B:3955:MET:HG3	2.13	0.49
1:B:4816:ILE:HD11	1:C:4846:VAL:HG21	1.95	0.49
1:D:836:GLY:HA3	1:D:1201:HIS:CE1	2.48	0.49
1:D:915:GLU:HA	1:D:918:ARG:HB2	1.95	0.49
1:D:1237:TRP:CE3	1:D:1605:TRP:HB3	2.47	0.49
1:D:1743[B]:ARG:HH22	1:D:1967:ASP:CG	2.19	0.49
1:D:2170:MET:SD	1:D:2171:GLY:N	2.85	0.49
1:D:2207:VAL:O	1:D:2211:MET:HG3	2.13	0.49
1:D:2431:ASP:OD1	1:D:2435:ARG:NE	2.39	0.49
1:D:2469:ILE:HD13	1:D:2502:MET:HE3	1.93	0.49
1:C:978:THR:O	1:C:982:THR:HG23	2.12	0.49
1:C:1509:ILE:H	1:C:1509:ILE:HD12	1.77	0.49
1:A:836:GLY:HA3	1:A:1201:HIS:CE1	2.48	0.49
1:A:1109:LEU:HA	1:A:1120:LEU:HD13	1.94	0.49
1:A:2170:MET:SD	1:A:2171:GLY:N	2.85	0.49
1:A:2288:LEU:O	1:A:3849:ARG:NH1	2.45	0.49
1:A:3141:THR:CG2	1:A:3145:GLN:HE22	2.24	0.49
1:A:3951:PHE:O	1:A:3955:MET:HG3	2.13	0.49
1:A:4232:GLU:OE1	1:A:5019:TRP:NE1	2.42	0.49
2:G:55:VAL:HG12	2:G:56:ILE:H	1.78	0.49
1:B:468:LEU:HB3	1:B:472:ARG:NH1	2.27	0.49
1:B:574:VAL:HA	1:B:577:ILE:HG12	1.95	0.49
1:B:972:LEU:HB3	1:B:1044:ARG:HG2	1.95	0.49
1:B:1509:ILE:H	1:B:1509:ILE:HD12	1.77	0.49
1:B:1691:GLN:OE1	1:B:1691:GLN:N	2.43	0.49
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.12	0.49
1:B:2215:LEU:O	1:B:2219:GLU:HB3	2.12	0.49
1:B:3349:ALA:HB3	1:B:3415:TYR:CE1	2.48	0.49
1:B:3445:TRP:HD1	1:B:3451:PHE:CD2	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3695:PRO:HB3	1:B:3699:HIS:HD2	1.76	0.49
1:D:468:LEU:HB3	1:D:472:ARG:NH1	2.27	0.49
1:D:574:VAL:O	1:D:578:ILE:HG13	2.12	0.49
1:D:1601:MET:CE	1:D:1602:PRO:HD2	2.39	0.49
1:D:1743[A]:ARG:HH22	1:D:1967:ASP:CG	2.19	0.49
1:D:2299:VAL:HG11	1:D:2356:LEU:HD13	1.95	0.49
1:D:2788:HIS:CG	1:D:2789:PRO:HD2	2.46	0.49
1:D:3248:ARG:NE	1:D:3248:ARG:HA	2.28	0.49
1:D:3532:LEU:HD21	1:D:3553:LEU:HD22	1.94	0.49
1:D:3990:VAL:HA	1:D:3993:LEU:HD12	1.94	0.49
1:D:4639:MET:HA	1:D:4642:ALA:HB3	1.95	0.49
1:C:22:LEU:HD23	1:C:22:LEU:H	1.77	0.49
1:C:280:LEU:HD21	1:C:316:PHE:HB2	1.95	0.49
1:C:915:GLU:HA	1:C:918:ARG:HB2	1.95	0.49
1:C:2088:GLU:OE1	1:C:2089:LYS:N	2.46	0.49
1:C:2170:MET:SD	1:C:2171:GLY:N	2.85	0.49
1:C:2439:GLU:O	1:C:2443:ILE:HG12	2.12	0.49
1:C:3062:PRO:HA	1:C:3065:VAL:HG22	1.93	0.49
1:C:3248:ARG:HA	1:C:3248:ARG:NE	2.28	0.49
1:C:3280:TYR:O	1:C:3284:TRP:HD1	1.96	0.49
1:C:3758:MET:HA	1:C:3758:MET:HE3	1.94	0.49
1:C:4232:GLU:OE1	1:C:5019:TRP:NE1	2.42	0.49
1:A:240:ASP:O	1:A:243:ARG:HG2	2.11	0.49
1:A:1992:ALA:HB1	1:A:1996:ARG:HH22	1.78	0.49
1:A:2215:LEU:O	1:A:2219:GLU:HB3	2.12	0.49
1:A:4648:LEU:HD12	1:A:4803:HIS:HE1	1.78	0.49
1:B:719:LEU:HA	1:B:735:GLN:HE21	1.77	0.49
1:B:1109:LEU:HA	1:B:1120:LEU:HD13	1.94	0.49
1:B:2490:MET:H	1:B:2490:MET:HE2	1.76	0.49
1:B:2789:PRO:O	1:B:2792:ARG:NE	2.42	0.49
1:B:4892:ARG:HH12	1:C:4898:GLY:CA	2.25	0.49
1:D:565:TYR:CZ	1:D:569:ILE:HD11	2.48	0.49
1:D:2439:GLU:O	1:D:2443:ILE:HG12	2.12	0.49
1:D:2875:ALA:HB3	1:D:2920:ARG:HH22	1.76	0.49
1:D:3758:MET:HA	1:D:3758:MET:HE3	1.95	0.49
1:C:13:PHE:HE1	1:C:164:ARG:HG2	1.78	0.49
1:C:836:GLY:HA3	1:C:1201:HIS:CE1	2.48	0.49
1:A:574:VAL:HA	1:A:577:ILE:HG12	1.95	0.49
1:A:2490:MET:H	1:A:2490:MET:HE2	1.76	0.49
1:A:2998:PHE:HA	1:A:3002:LEU:HD23	1.94	0.49
1:A:3263:TYR:HD1	1:A:3270:ILE:HD12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4874:MET:HA	1:A:4874:MET:HE3	1.94	0.49
1:B:16:THR:OG1	1:B:99:ARG:N	2.41	0.49
1:B:280:LEU:HD21	1:B:316:PHE:HB2	1.95	0.49
1:B:793:LEU:HB3	1:B:812:HIS:HB3	1.95	0.49
1:B:836:GLY:HA3	1:B:1201:HIS:CE1	2.48	0.49
1:B:1815:LEU:O	1:B:1819:VAL:HG23	2.12	0.49
1:B:2207:VAL:O	1:B:2211:MET:HG3	2.13	0.49
1:D:2135:LEU:HD22	1:D:3662:ILE:HG22	1.95	0.49
1:D:2215:LEU:O	1:D:2219:GLU:HB3	2.12	0.49
1:D:2520:HIS:O	1:D:2524:VAL:HG22	2.12	0.49
1:D:2612[A]:ARG:HH11	1:D:2612[A]:ARG:CG	2.26	0.49
1:D:4640:GLU:HB2	1:D:4641:PRO:HD3	1.93	0.49
1:C:1207:ASP:O	1:C:1210:SER:OG	2.30	0.49
1:C:1808:ARG:HD2	1:C:1854:PHE:HA	1.94	0.49
1:C:2239:PHE:HD2	1:C:2250:MET:HE3	1.78	0.49
1:C:2676:ARG:HB2	1:C:2714:TYR:HH	1.76	0.49
1:C:2865:VAL:HB	1:C:2928:LYS:HD2	1.94	0.49
1:C:3445:TRP:HD1	1:C:3451:PHE:CD2	2.31	0.49
1:A:1237:TRP:CE3	1:A:1605:TRP:HB3	2.47	0.49
1:A:1252:HIS:CE1	1:A:1254:HIS:HB2	2.48	0.49
1:A:1297:PHE:HE1	1:A:1548:LEU:HD12	1.78	0.49
1:A:2088:GLU:OE1	1:A:2089:LYS:N	2.46	0.49
1:A:2210:VAL:HA	1:A:2213:ASN:HD22	1.77	0.49
1:A:2234:ARG:O	1:A:2238:TYR:HB2	2.12	0.49
1:A:2439:GLU:O	1:A:2443:ILE:HG12	2.12	0.49
1:A:2712:PRO:HB3	1:A:2956:ALA:HB2	1.95	0.49
1:A:2948:THR:HG22	1:A:2952:GLU:HG2	1.95	0.49
1:A:3990:VAL:HA	1:A:3993:LEU:HD12	1.94	0.49
2:G:42:ARG:HH21	1:C:1780:PRO:HB2	1.78	0.49
2:F:49:MET:N	2:F:54:GLU:OE2	2.45	0.49
1:B:13:PHE:HE1	1:B:164:ARG:HG2	1.78	0.49
1:B:70:GLU:OE2	1:B:110:ARG:NE	2.45	0.49
1:B:360:ALA:HB2	1:B:377:ILE:HG23	1.94	0.49
1:B:1079:LYS:HG2	1:B:1655:GLU:CD	2.38	0.49
1:B:1207:ASP:O	1:B:1210:SER:OG	2.30	0.49
1:B:1748:PHE:HE1	1:B:1760:HIS:HA	1.78	0.49
1:B:1992:ALA:HB1	1:B:1996:ARG:HH22	1.78	0.49
1:B:2712:PRO:HB3	1:B:2956:ALA:HB2	1.95	0.49
1:B:2963:LEU:O	1:B:2967:MET:HG2	2.13	0.49
1:D:34:LYS:NZ	1:D:53:SER:HA	2.28	0.49
1:D:574:VAL:HA	1:D:577:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2210:VAL:HA	1:D:2213:ASN:HD22	1.77	0.49
1:D:2349:ASN:HA	1:D:2352:VAL:HG12	1.95	0.49
1:D:2648:TYR:CD2	1:D:2706:ILE:HG12	2.47	0.49
1:D:2712:PRO:HB3	1:D:2956:ALA:HB2	1.95	0.49
1:D:2865:VAL:HB	1:D:2928:LYS:HD2	1.94	0.49
1:D:3157:ILE:HD12	1:D:3202:PRO:HD3	1.95	0.49
1:D:3445:TRP:HD1	1:D:3451:PHE:CD2	2.31	0.49
1:C:574:VAL:O	1:C:578:ILE:HG13	2.12	0.49
1:C:1748:PHE:HE1	1:C:1760:HIS:HA	1.78	0.49
1:C:1762:LEU:O	1:C:1765:VAL:HG12	2.13	0.49
1:C:2349:ASN:HA	1:C:2352:VAL:HG12	1.95	0.49
1:C:2612[A]:ARG:HH11	1:C:2612[A]:ARG:CG	2.26	0.49
1:C:2971:GLN:HE21	1:C:3049:LEU:HD11	1.78	0.49
1:C:3191:GLY:HA2	1:C:3272:ILE:HG23	1.95	0.49
1:A:574:VAL:O	1:A:578:ILE:HG13	2.12	0.49
1:A:1808:ARG:HD2	1:A:1854:PHE:HA	1.94	0.49
1:A:3281:LEU:O	1:A:3307:VAL:HG11	2.13	0.49
1:B:1727:ARG:HB2	1:B:1775:HIS:HE1	1.77	0.49
1:B:3802:ILE:HD12	1:B:3886:ARG:HG3	1.94	0.49
1:B:4569:LEU:HD11	1:B:4646:LEU:HD22	1.92	0.49
1:D:13:PHE:HE1	1:D:164:ARG:HG2	1.78	0.49
1:D:721:LEU:HD11	1:D:768:PHE:HE1	1.76	0.49
1:D:1582:SER:OG	1:D:1583:GLU:OE1	2.29	0.49
1:D:2088:GLU:OE1	1:D:2089:LYS:N	2.46	0.49
1:D:2963:LEU:O	1:D:2967:MET:HG2	2.13	0.49
1:D:3191:GLY:HA2	1:D:3272:ILE:HG23	1.94	0.49
1:D:3280:TYR:O	1:D:3284:TRP:HD1	1.96	0.49
1:D:3715:LYS:HD3	1:D:3716:LEU:O	2.11	0.49
1:D:3951:PHE:O	1:D:3955:MET:HG3	2.13	0.49
1:D:4874:MET:HA	1:D:4874:MET:HE3	1.94	0.49
1:C:42:PHE:HD1	1:C:447:ASP:HB3	1.77	0.49
1:C:793:LEU:HB3	1:C:812:HIS:HB3	1.95	0.49
1:C:1271:ARG:HH22	1:C:1560:ASN:HA	1.77	0.49
1:C:2540:THR:O	1:C:2543:THR:OG1	2.27	0.49
1:C:2712:PRO:HB3	1:C:2956:ALA:HB2	1.95	0.49
1:C:3532:LEU:HD21	1:C:3553:LEU:HD22	1.94	0.49
1:C:4639:MET:HA	1:C:4642:ALA:HB3	1.95	0.49
1:C:4998:LYS:HB3	1:C:5003:HIS:HE1	1.78	0.49
1:A:2243:SER:HB3	1:A:2246:ASN:CG	2.38	0.48
1:A:2918:ARG:O	1:A:2921:GLU:HG3	2.13	0.48
1:A:3445:TRP:HD1	1:A:3451:PHE:CD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:ARG:O	1:B:284:HIS:NE2	2.29	0.48
1:B:1762:LEU:O	1:B:1765:VAL:HG12	2.13	0.48
1:B:2239:PHE:HD2	1:B:2250:MET:HE3	1.78	0.48
1:B:2612[A]:ARG:HH11	1:B:2612[A]:ARG:CG	2.26	0.48
1:B:2772:GLN:O	1:C:1506:GLN:NE2	2.42	0.48
1:B:3114:LYS:HD2	1:B:3116:SER:N	2.25	0.48
1:B:3248:ARG:NE	1:B:3248:ARG:HA	2.28	0.48
1:B:3990:VAL:HA	1:B:3993:LEU:HD12	1.94	0.48
1:B:4904:PRO:HG3	1:B:4913:ARG:HH11	1.78	0.48
1:B:4998:LYS:HB3	1:B:5003:HIS:HE1	1.78	0.48
1:D:797:HIS:CE1	1:D:821:LEU:HD22	2.48	0.48
1:D:1762:LEU:O	1:D:1765:VAL:HG12	2.13	0.48
1:D:2234:ARG:O	1:D:2238:TYR:HB2	2.12	0.48
1:D:2867:LEU:HD22	1:D:2928:LYS:HZ1	1.78	0.48
1:D:2948:THR:HG22	1:D:2952:GLU:HG2	1.95	0.48
1:C:574:VAL:HA	1:C:577:ILE:HG12	1.95	0.48
1:C:1252:HIS:CE1	1:C:1254:HIS:HB2	2.48	0.48
1:C:1992:ALA:HB1	1:C:1996:ARG:HH22	1.78	0.48
1:C:2207:VAL:O	1:C:2211:MET:HG3	2.13	0.48
1:C:2210:VAL:HA	1:C:2213:ASN:HD22	1.77	0.48
1:C:3147:ILE:CD1	1:C:3152:PHE:HB2	2.39	0.48
1:C:4796:MET:HA	1:C:4796:MET:HE2	1.95	0.48
1:A:206:CYS:HB2	1:A:271:GLY:HA3	1.95	0.48
1:A:565:TYR:CZ	1:A:569:ILE:HD11	2.48	0.48
1:A:915:GLU:HA	1:A:918:ARG:HB2	1.95	0.48
1:A:1163:THR:HA	1:A:1168:VAL:HA	1.94	0.48
1:A:1780:PRO:HB2	2:E:42:ARG:HH21	1.78	0.48
1:A:1785:ALA:N	2:E:55:VAL:HA	2.29	0.48
1:A:2612[A]:ARG:HH11	1:A:2612[A]:ARG:CG	2.26	0.48
1:A:2789:PRO:O	1:A:2792:ARG:NE	2.42	0.48
1:A:3957:VAL:O	1:A:3961:VAL:HG23	2.14	0.48
1:A:4035:VAL:HG12	1:A:4189:ARG:NH2	2.28	0.48
1:A:4959:PHE:CD2	1:A:4985:LEU:HD21	2.48	0.48
2:G:105:LYS:HG2	2:G:107:GLU:OE1	2.13	0.48
2:F:105:LYS:HG2	2:F:107:GLU:OE1	2.14	0.48
1:B:1252:HIS:CE1	1:B:1254:HIS:HB2	2.48	0.48
1:B:2121:PHE:CZ	1:B:3701:LEU:HB2	2.49	0.48
1:B:2234:ARG:O	1:B:2238:TYR:HB2	2.12	0.48
1:B:2865:VAL:HB	1:B:2928:LYS:HD2	1.94	0.48
1:B:2918:ARG:O	1:B:2921:GLU:HG3	2.13	0.48
1:B:4928:LEU:O	1:B:4932:ILE:HD12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1992:ALA:HB1	1:D:1996:ARG:HH22	1.78	0.48
1:D:2239:PHE:HD2	1:D:2250:MET:HE3	1.78	0.48
1:D:2909:ASP:OD1	1:D:2909:ASP:N	2.46	0.48
1:D:3349:ALA:HB3	1:D:3415:TYR:CE1	2.48	0.48
1:D:4998:LYS:HB3	1:D:5003:HIS:HE1	1.78	0.48
1:C:213:TYR:N	1:C:341:TYR:H	2.08	0.48
1:C:1089:TYR:HB3	1:C:1225:PRO:HA	1.94	0.48
1:C:2121:PHE:CZ	1:C:3701:LEU:HB2	2.48	0.48
1:C:4648:LEU:HD12	1:C:4803:HIS:HE1	1.78	0.48
1:C:4661:TYR:OH	1:C:4786:ASP:OD2	2.31	0.48
1:A:360:ALA:HB2	1:A:377:ILE:HG23	1.95	0.48
1:A:688:LEU:HD23	1:A:690:GLU:H	1.79	0.48
1:A:2239:PHE:HD2	1:A:2250:MET:HE3	1.78	0.48
1:A:2359:ARG:NH1	1:B:179:TYR:OH	2.46	0.48
2:E:82:TYR:CE2	2:E:87:HIS:HB2	2.49	0.48
2:G:82:TYR:CE2	2:G:87:HIS:HB2	2.49	0.48
2:F:55:VAL:HG12	2:F:56:ILE:H	1.78	0.48
1:B:3715:LYS:HD3	1:B:3716:LEU:O	2.11	0.48
1:B:4035:VAL:HG12	1:B:4189:ARG:NH2	2.28	0.48
1:B:4648:LEU:HD12	1:B:4803:HIS:HE1	1.78	0.48
1:B:4874:MET:HA	1:B:4874:MET:HE3	1.94	0.48
1:D:1079:LYS:HG2	1:D:1655:GLU:CD	2.38	0.48
1:D:1163:THR:HA	1:D:1168:VAL:HA	1.94	0.48
1:D:2918:ARG:O	1:D:2921:GLU:HG3	2.13	0.48
1:D:3263:TYR:HD1	1:D:3270:ILE:HD12	1.78	0.48
1:D:4648:LEU:HD12	1:D:4803:HIS:HE1	1.78	0.48
1:C:320:LYS:HD2	1:C:356:TRP:CE2	2.48	0.48
1:C:450:GLY:HA2	1:C:453:GLU:OE1	2.14	0.48
1:C:1163:THR:HA	1:C:1168:VAL:HA	1.94	0.48
1:C:2234:ARG:O	1:C:2238:TYR:HB2	2.12	0.48
1:A:13:PHE:HE1	1:A:164:ARG:HG2	1.78	0.48
1:A:719:LEU:HA	1:A:735:GLN:HE21	1.77	0.48
1:A:2207:VAL:O	1:A:2211:MET:HG3	2.13	0.48
1:A:2454:ARG:HE	1:A:2458:ARG:NE	2.10	0.48
1:A:2963:LEU:O	1:A:2967:MET:HG2	2.13	0.48
1:A:3282:PRO:HG3	1:A:3312:LEU:HD11	1.95	0.48
1:A:3670:GLU:HG2	1:A:3728:ILE:HA	1.96	0.48
1:A:4639:MET:HA	1:A:4642:ALA:HB3	1.95	0.48
1:A:4796:MET:HE2	1:A:4796:MET:HA	1.95	0.48
1:B:454:PRO:HD3	1:B:531:ARG:NH2	2.28	0.48
1:B:574:VAL:O	1:B:578:ILE:HG13	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3758:MET:HE3	1:B:3758:MET:HA	1.95	0.48
1:D:320:LYS:HD2	1:D:356:TRP:CE2	2.48	0.48
1:D:1252:HIS:CE1	1:D:1254:HIS:HB2	2.48	0.48
1:D:1297:PHE:HE1	1:D:1548:LEU:HD12	1.78	0.48
1:D:1815:LEU:O	1:D:1819:VAL:HG23	2.12	0.48
1:D:2902:HIS:HD2	1:D:2903:PRO:HD2	1.78	0.48
1:D:3281:LEU:O	1:D:3307:VAL:HG11	2.13	0.48
1:C:454:PRO:HD3	1:C:531:ARG:NH2	2.27	0.48
1:C:2918:ARG:O	1:C:2921:GLU:HG3	2.13	0.48
1:C:3868:ARG:HH22	1:C:3870:ASN:HB3	1.77	0.48
1:A:2761:TYR:HA	1:A:2764:GLU:HB2	1.96	0.48
1:A:3622:LYS:HB2	1:A:3625:SER:OG	2.13	0.48
1:A:4087:LEU:HB2	1:A:4122:MET:HE3	1.96	0.48
2:E:55:VAL:HG12	2:E:56:ILE:H	1.78	0.48
2:H:105:LYS:HG2	2:H:107:GLU:OE1	2.13	0.48
2:G:49:MET:N	2:G:54:GLU:OE2	2.45	0.48
1:B:721:LEU:HD11	1:B:768:PHE:HE1	1.76	0.48
1:B:2088:GLU:OE1	1:B:2089:LYS:N	2.46	0.48
1:B:2862:LEU:O	1:B:2928:LYS:HG3	2.13	0.48
1:B:3050:VAL:HG12	1:B:3131:TYR:CE1	2.49	0.48
1:B:3191:GLY:HA2	1:B:3272:ILE:HG23	1.95	0.48
1:B:3280:TYR:O	1:B:3284:TRP:HD1	1.96	0.48
1:B:3281:LEU:O	1:B:3307:VAL:HG11	2.13	0.48
1:B:3629:ARG:O	1:B:3633:VAL:HG23	2.14	0.48
1:B:3670:GLU:HG2	1:B:3728:ILE:HA	1.96	0.48
1:D:719:LEU:HA	1:D:735:GLN:HE21	1.77	0.48
1:D:1005:TRP:HH2	1:D:1013:ILE:HD13	1.78	0.48
1:D:2967:MET:HE1	1:D:3046:LEU:HG	1.94	0.48
1:D:3354:LEU:HD12	1:D:3415:TYR:CD2	2.45	0.48
1:D:3514:LEU:HA	1:D:3517:MET:HG2	1.94	0.48
1:D:3531:ASP:O	1:D:3534:MET:HG2	2.13	0.48
1:C:565:TYR:CZ	1:C:569:ILE:HD11	2.48	0.48
1:C:1743[B]:ARG:HH22	1:C:1967:ASP:CG	2.19	0.48
1:C:2761:TYR:HA	1:C:2764:GLU:HB2	1.96	0.48
1:C:3283:ARG:HH12	1:C:3287:ARG:HH22	1.60	0.48
1:C:3349:ALA:HB3	1:C:3415:TYR:CE1	2.48	0.48
1:C:3525:CYS:SG	1:C:3599:VAL:HG21	2.54	0.48
1:A:1095:VAL:HB	1:A:1199:VAL:HB	1.96	0.48
1:A:1446:SER:HA	1:A:1496:TRP:HE1	1.79	0.48
1:A:2626:LEU:O	1:A:2630:VAL:N	2.42	0.48
1:A:3157:ILE:HD12	1:A:3202:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3248:ARG:NE	1:A:3248:ARG:HA	2.28	0.48
1:B:355:LEU:HD22	1:B:380:GLN:HB3	1.96	0.48
1:B:565:TYR:CZ	1:B:569:ILE:HD11	2.48	0.48
1:B:915:GLU:HA	1:B:918:ARG:HB2	1.95	0.48
1:B:2198:MET:HA	1:B:2201:LEU:HD12	1.95	0.48
1:B:2579:VAL:O	1:B:2583:LEU:HG	2.14	0.48
1:B:2676:ARG:HB2	1:B:2714:TYR:HH	1.78	0.48
1:B:2948:THR:HG22	1:B:2949:SER:N	2.29	0.48
1:B:3183:VAL:HA	1:B:3186:LEU:HB2	1.96	0.48
1:B:3283:ARG:HH12	1:B:3287:ARG:HH22	1.60	0.48
1:B:3531:ASP:O	1:B:3534:MET:HG2	2.13	0.48
1:B:3829:PHE:HB3	1:B:3913:ILE:HD11	1.96	0.48
1:B:3868:ARG:HH22	1:B:3870:ASN:HB3	1.77	0.48
1:B:3957:VAL:O	1:B:3961:VAL:HG23	2.14	0.48
1:B:4796:MET:HE2	1:B:4796:MET:HA	1.95	0.48
1:D:450:GLY:HA2	1:D:453:GLU:OE1	2.14	0.48
1:D:1291:LEU:HD13	1:D:1595:LEU:HD21	1.95	0.48
1:D:3573:MET:O	1:D:3577:ARG:HG2	2.14	0.48
1:D:4060:LYS:HA	1:D:4063:ASP:OD2	2.14	0.48
1:D:4959:PHE:CD2	1:D:4985:LEU:HD21	2.48	0.48
1:C:1743[A]:ARG:HH22	1:C:1967:ASP:CG	2.19	0.48
1:C:2909:ASP:N	1:C:2909:ASP:OD1	2.46	0.48
1:C:2967:MET:HE1	1:C:3046:LEU:HG	1.94	0.48
1:C:3531:ASP:O	1:C:3534:MET:HG2	2.13	0.48
1:A:989:ALA:CB	1:A:1039:LEU:HD11	2.44	0.48
1:A:1631:GLN:OE1	1:A:1631:GLN:N	2.47	0.48
1:A:2913:ALA:HA	1:A:2916:LYS:HD2	1.96	0.48
1:A:2967:MET:HE1	1:A:3046:LEU:HG	1.94	0.48
1:A:4085:ARG:HH22	1:A:4122:MET:HE2	1.79	0.48
1:A:4866:SER:OG	1:A:4868:ASP:OD1	2.31	0.48
1:A:4914:VAL:HG13	1:D:4888:TYR:HD1	1.77	0.48
2:F:82:TYR:CE2	2:F:87:HIS:HB2	2.49	0.48
1:B:20:VAL:CG2	1:B:202:MET:HE2	2.44	0.48
1:B:2210:VAL:HA	1:B:2213:ASN:HD22	1.77	0.48
1:B:2243:SER:HB3	1:B:2246:ASN:CG	2.38	0.48
1:B:2299:VAL:HG11	1:B:2356:LEU:HD13	1.95	0.48
1:B:2761:TYR:HA	1:B:2764:GLU:HB2	1.96	0.48
1:B:3525:CYS:SG	1:B:3599:VAL:HG21	2.54	0.48
1:B:4085:ARG:HH22	1:B:4122:MET:HE2	1.79	0.48
1:D:793:LEU:HB3	1:D:812:HIS:HB3	1.95	0.48
1:D:1087:ARG:HD2	1:D:1222:GLY:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1095:VAL:HB	1:D:1199:VAL:HB	1.96	0.48
1:D:1631:GLN:OE1	1:D:1631:GLN:N	2.47	0.48
1:D:2012:PHE:CZ	1:D:2031:LEU:HD23	2.49	0.48
1:D:2541:PHE:O	1:D:2544:THR:HG22	2.14	0.48
1:D:3376:GLU:OE1	1:D:3380:ARG:NH1	2.47	0.48
1:D:4035:VAL:HG12	1:D:4189:ARG:NH2	2.28	0.48
1:D:4087:LEU:HB2	1:D:4122:MET:HE3	1.96	0.48
1:C:355:LEU:HD22	1:C:380:GLN:HB3	1.96	0.48
1:C:1631:GLN:N	1:C:1631:GLN:OE1	2.47	0.48
1:C:2299:VAL:HG11	1:C:2356:LEU:HD13	1.95	0.48
1:C:3281:LEU:O	1:C:3307:VAL:HG11	2.13	0.48
1:C:4904:PRO:HG3	1:C:4913:ARG:HH11	1.78	0.48
1:A:35:LEU:HG	1:A:51:PRO:HA	1.96	0.48
1:A:1748:PHE:HE1	1:A:1760:HIS:HA	1.78	0.48
1:A:2012:PHE:CZ	1:A:2031:LEU:HD23	2.49	0.48
1:A:2135:LEU:HD21	1:A:3663:LEU:HD23	1.95	0.48
1:A:2183:GLY:HA2	1:A:2234:ARG:HH22	1.79	0.48
1:A:2520:HIS:O	1:A:2524:VAL:HG22	2.12	0.48
1:A:2971:GLN:HE21	1:A:3049:LEU:HD11	1.78	0.48
1:A:3514:LEU:HA	1:A:3517:MET:HG2	1.94	0.48
1:B:320:LYS:HD2	1:B:356:TRP:CE2	2.48	0.48
1:B:450:GLY:HA2	1:B:453:GLU:OE1	2.14	0.48
1:B:797:HIS:CE1	1:B:821:LEU:HD22	2.48	0.48
1:B:2541:PHE:O	1:B:2544:THR:HG22	2.14	0.48
1:B:2948:THR:HG22	1:B:2952:GLU:HG2	1.95	0.48
1:B:3228:ALA:HA	1:B:3232:LEU:HD23	1.94	0.48
1:B:4933:GLN:NE2	1:C:4930:ALA:HB2	2.28	0.48
1:D:1748:PHE:HE1	1:D:1760:HIS:HA	1.78	0.48
1:D:2579:VAL:O	1:D:2583:LEU:HG	2.14	0.48
1:D:3282:PRO:HG3	1:D:3312:LEU:HD11	1.95	0.48
1:D:3829:PHE:HB3	1:D:3913:ILE:HD11	1.96	0.48
1:D:5033:GLU:O	1:D:5037:SER:OG	2.21	0.48
1:C:613:ALA:HB2	1:C:1676:LEU:HD12	1.94	0.48
1:C:688:LEU:HD23	1:C:690:GLU:H	1.79	0.48
1:C:1079:LYS:HG2	1:C:1655:GLU:CD	2.38	0.48
1:C:2198:MET:HA	1:C:2201:LEU:HD12	1.95	0.48
1:C:2541:PHE:O	1:C:2544:THR:HG22	2.14	0.48
1:C:3734:HIS:CD2	1:C:3736:GLU:H	2.27	0.48
1:C:4035:VAL:HG12	1:C:4189:ARG:NH2	2.28	0.48
1:C:4874:MET:HA	1:C:4874:MET:HE3	1.94	0.48
1:A:20:VAL:CG2	1:A:202:MET:HE2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:683:ARG:HB2	1:A:782:SER:HB2	1.96	0.48
1:A:793:LEU:HB3	1:A:812:HIS:HB3	1.95	0.48
1:A:1079:LYS:HG2	1:A:1655:GLU:CD	2.38	0.48
1:A:1087:ARG:HD2	1:A:1222:GLY:O	2.14	0.48
1:A:2121:PHE:CZ	1:A:3701:LEU:HB2	2.49	0.48
1:A:2862:LEU:O	1:A:2928:LYS:HG3	2.14	0.48
1:A:3228:ALA:HA	1:A:3232:LEU:HD23	1.94	0.48
1:A:3280:TYR:O	1:A:3284:TRP:HD1	1.96	0.48
1:A:3411:LEU:HD23	1:A:3414:ARG:NH2	2.29	0.48
1:A:3629:ARG:O	1:A:3633:VAL:HG23	2.14	0.48
1:A:4805:ASN:HB3	1:A:4808:PHE:CD2	2.49	0.48
2:H:55:VAL:HG12	2:H:56:ILE:H	1.78	0.48
1:B:1095:VAL:HB	1:B:1199:VAL:HB	1.96	0.48
1:B:1237:TRP:CE3	1:B:1605:TRP:HB3	2.47	0.48
1:B:1446:SER:HA	1:B:1496:TRP:HE1	1.79	0.48
1:B:1631:GLN:OE1	1:B:1631:GLN:N	2.47	0.48
1:B:2012:PHE:HB2	1:B:2018:GLU:HA	1.96	0.48
1:B:2913:ALA:HA	1:B:2916:LYS:HD2	1.96	0.48
1:B:3368:ARG:HG2	1:B:3371:LYS:NZ	2.29	0.48
1:B:3411:LEU:HD23	1:B:3414:ARG:NH2	2.29	0.48
1:B:3424:LEU:HD23	1:B:3523:ASN:HD22	1.79	0.48
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.14	0.48
1:B:4959:PHE:CD2	1:B:4985:LEU:HD21	2.48	0.48
1:D:2004:GLU:OE1	1:D:2004:GLU:N	2.46	0.48
1:D:2862:LEU:O	1:D:2928:LYS:HG3	2.13	0.48
1:C:206:CYS:HB2	1:C:271:GLY:HA3	1.94	0.48
1:C:4085:ARG:HH22	1:C:4122:MET:HE2	1.79	0.48
1:C:4928:LEU:O	1:C:4932:ILE:HD12	2.13	0.48
1:C:4959:PHE:CD2	1:C:4985:LEU:HD21	2.48	0.48
1:A:450:GLY:HA2	1:A:453:GLU:OE1	2.14	0.48
1:A:797:HIS:CE1	1:A:821:LEU:HD22	2.48	0.48
1:A:2004:GLU:OE1	1:A:2004:GLU:N	2.46	0.48
1:A:2299:VAL:HG11	1:A:2356:LEU:HD13	1.95	0.48
1:A:2540:THR:O	1:A:2543:THR:OG1	2.27	0.48
1:A:2902:HIS:HD2	1:A:2903:PRO:HD2	1.78	0.48
1:A:3525:CYS:SG	1:A:3599:VAL:HG21	2.54	0.48
1:B:683:ARG:HB2	1:B:782:SER:HB2	1.96	0.48
1:B:1470:ARG:NH2	1:B:1471:ALA:O	2.35	0.48
1:B:3376:GLU:OE1	1:B:3380:ARG:NH1	2.47	0.48
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.14	0.48
1:B:4931:ILE:O	1:B:4935:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:20:VAL:CG2	1:D:202:MET:HE2	2.44	0.48
1:D:175:SER:HA	1:C:2452:ARG:HD3	1.96	0.48
1:D:989:ALA:CB	1:D:1039:LEU:HD11	2.44	0.48
1:D:3050:VAL:HG12	1:D:3131:TYR:CE1	2.49	0.48
1:D:3622:LYS:HB2	1:D:3625:SER:OG	2.13	0.48
1:D:4904:PRO:HG3	1:D:4913:ARG:HH11	1.78	0.48
1:C:1087:ARG:HD2	1:C:1222:GLY:O	2.14	0.48
1:C:2867:LEU:HD22	1:C:2928:LYS:HZ1	1.78	0.48
1:C:3157:ILE:HD12	1:C:3202:PRO:HD3	1.95	0.48
1:C:3168:THR:O	1:C:3172:ILE:HD12	2.14	0.48
1:C:3368:ARG:HG2	1:C:3371:LYS:NZ	2.29	0.48
1:C:3670:GLU:HG2	1:C:3728:ILE:HA	1.96	0.48
1:C:4805:ASN:HB3	1:C:4808:PHE:CD2	2.49	0.48
1:C:4931:ILE:O	1:C:4935:LEU:HG	2.14	0.48
1:A:1100:MET:HE2	1:A:1100:MET:HB2	1.79	0.47
1:A:1465:ASP:HB3	1:A:1468:LYS:HB2	1.96	0.47
1:A:1691:GLN:OE1	1:A:1691:GLN:N	2.43	0.47
1:A:3050:VAL:HG12	1:A:3131:TYR:CE1	2.49	0.47
1:A:3183:VAL:HA	1:A:3186:LEU:HB2	1.96	0.47
1:A:4060:LYS:HA	1:A:4063:ASP:OD2	2.14	0.47
1:A:4193:ILE:HG12	1:A:5006:GLN:OE1	2.14	0.47
1:B:989:ALA:CB	1:B:1039:LEU:HD11	2.44	0.47
1:B:3343:GLN:OE1	1:B:3414:ARG:NH2	2.47	0.47
1:B:4968:PHE:O	1:B:4974:GLY:HA3	2.14	0.47
1:D:613:ALA:HB2	1:D:1676:LEU:HD12	1.94	0.47
1:D:688:LEU:HD23	1:D:690:GLU:H	1.79	0.47
1:D:2449:GLU:O	1:D:2453:ILE:HG12	2.14	0.47
1:D:2533:ALA:HB1	1:D:2589:LEU:HD21	1.96	0.47
1:D:2761:TYR:HA	1:D:2764:GLU:HB2	1.96	0.47
1:D:3525:CYS:SG	1:D:3599:VAL:HG21	2.54	0.47
1:D:3996:PHE:CD2	1:D:4020:GLN:HG2	2.49	0.47
1:D:4796:MET:HE2	1:D:4796:MET:HA	1.95	0.47
1:C:2948:THR:HG22	1:C:2952:GLU:HG2	1.95	0.47
1:C:2963:LEU:O	1:C:2967:MET:HG2	2.13	0.47
1:C:3376:GLU:OE1	1:C:3380:ARG:NH1	2.47	0.47
1:C:3622:LYS:HB2	1:C:3625:SER:OG	2.13	0.47
1:C:3829:PHE:HB3	1:C:3913:ILE:HD11	1.96	0.47
1:C:4968:PHE:O	1:C:4974:GLY:HA3	2.14	0.47
1:A:2135:LEU:HD22	1:A:3662:ILE:HG22	1.95	0.47
1:A:2349:ASN:HA	1:A:2352:VAL:HG12	1.95	0.47
1:A:3202:PRO:C	1:A:3284:TRP:HH2	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3369:ALA:HA	1:A:3372:VAL:HG22	1.96	0.47
1:A:3465:ASN:OD1	1:A:3467:MET:HB2	2.15	0.47
1:A:3829:PHE:HB3	1:A:3913:ILE:HD11	1.96	0.47
1:B:688:LEU:HD23	1:B:690:GLU:H	1.79	0.47
1:B:2135:LEU:HD22	1:B:3662:ILE:HG22	1.95	0.47
1:B:2153:MET:O	1:B:2157:GLU:HG2	2.15	0.47
1:B:3996:PHE:CD2	1:B:4020:GLN:HG2	2.49	0.47
1:B:4087:LEU:HB2	1:B:4122:MET:HE3	1.96	0.47
1:B:4189:ARG:NH2	1:B:5032:TYR:OH	2.46	0.47
1:B:4197:ILE:HD13	1:B:4990:PHE:CD2	2.49	0.47
1:D:280:LEU:HD21	1:D:316:PHE:HB2	1.95	0.47
1:D:425:PRO:HG3	1:D:506:TYR:CZ	2.49	0.47
1:D:1849:LEU:HB3	1:D:1945:TYR:CE2	2.50	0.47
1:D:3465:ASN:OD1	1:D:3467:MET:HB2	2.14	0.47
1:C:797:HIS:CE1	1:C:821:LEU:HD22	2.48	0.47
1:C:1005:TRP:HH2	1:C:1013:ILE:HD13	1.78	0.47
1:C:1446:SER:HA	1:C:1496:TRP:HE1	1.79	0.47
1:C:2135:LEU:HD22	1:C:3662:ILE:HG22	1.95	0.47
1:C:2182:ILE:HG13	1:C:2234:ARG:NH1	2.30	0.47
1:C:2449:GLU:O	1:C:2453:ILE:HG12	2.14	0.47
1:C:4087:LEU:HB2	1:C:4122:MET:HE3	1.96	0.47
1:C:4197:ILE:HD13	1:C:4990:PHE:CD2	2.49	0.47
1:A:34:LYS:NZ	1:A:53:SER:HA	2.28	0.47
1:A:280:LEU:HD21	1:A:316:PHE:HB2	1.95	0.47
1:A:653:ALA:N	1:A:656:SER:OG	2.48	0.47
1:A:2909:ASP:OD1	1:A:2909:ASP:N	2.46	0.47
1:A:2948:THR:HG22	1:A:2949:SER:N	2.29	0.47
1:A:3067:CYS:O	1:A:3070:ILE:HG22	2.14	0.47
1:A:3438:VAL:HG13	1:A:3517:MET:CE	2.45	0.47
1:A:3605:HIS:O	1:A:3609:THR:HG23	2.15	0.47
1:A:4157:ASP:H	1:A:4161:ARG:NH1	2.13	0.47
1:A:4904:PRO:HG3	1:A:4913:ARG:HH11	1.78	0.47
1:B:34:LYS:NZ	1:B:53:SER:HA	2.28	0.47
1:B:1005:TRP:HH2	1:B:1013:ILE:HD13	1.78	0.47
1:B:1291:LEU:HD13	1:B:1595:LEU:HD21	1.95	0.47
1:B:1465:ASP:HB3	1:B:1468:LYS:HB2	1.97	0.47
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.49	0.47
1:B:2952:GLU:HA	1:B:2957:PHE:CG	2.49	0.47
1:B:3695:PRO:HB2	1:B:3700:GLN:HG2	1.97	0.47
1:B:4959:PHE:HD2	1:B:4985:LEU:HD21	1.79	0.47
1:D:1708:ARG:NH1	1:D:1836:PHE:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2198:MET:HA	1:D:2201:LEU:HD12	1.95	0.47
1:D:2243:SER:HB3	1:D:2246:ASN:CG	2.38	0.47
1:D:3168:THR:O	1:D:3172:ILE:HD12	2.14	0.47
1:D:4928:LEU:O	1:D:4932:ILE:HD12	2.14	0.47
1:C:20:VAL:CG2	1:C:202:MET:HE2	2.44	0.47
1:C:34:LYS:NZ	1:C:53:SER:HA	2.28	0.47
1:C:1601:MET:CE	1:C:1602:PRO:HD2	2.39	0.47
1:C:2243:SER:HB3	1:C:2246:ASN:CG	2.38	0.47
1:C:2575:ARG:HG3	1:C:2575:ARG:O	2.14	0.47
1:C:2579:VAL:O	1:C:2583:LEU:HG	2.14	0.47
1:C:2902:HIS:HD2	1:C:2903:PRO:HD2	1.78	0.47
1:C:3527:PRO:HG2	1:C:3572:GLN:HB3	1.96	0.47
1:A:320:LYS:HD2	1:A:356:TRP:CE2	2.48	0.47
1:A:4959:PHE:HD2	1:A:4985:LEU:HD21	1.79	0.47
1:A:4998:LYS:HB3	1:A:5003:HIS:HE1	1.78	0.47
2:H:82:TYR:CE2	2:H:87:HIS:HB2	2.49	0.47
1:B:1271:ARG:HH22	1:B:1560:ASN:HA	1.77	0.47
1:B:2268[B]:GLN:H	1:B:2268[B]:GLN:HG3	1.49	0.47
1:B:2533:ALA:HB1	1:B:2589:LEU:HD21	1.96	0.47
1:B:2971:GLN:HE21	1:B:3049:LEU:HD11	1.78	0.47
1:B:3067:CYS:O	1:B:3070:ILE:HG22	2.15	0.47
1:B:3263:TYR:HD1	1:B:3270:ILE:HD12	1.78	0.47
1:B:4805:ASN:HB3	1:B:4808:PHE:CD2	2.48	0.47
1:D:214:VAL:N	1:D:341:TYR:HB2	2.30	0.47
1:D:1743[B]:ARG:NH2	1:D:1967:ASP:OD2	2.32	0.47
1:D:2177:LEU:O	1:D:2180:GLN:HG3	2.15	0.47
1:D:2971:GLN:HE21	1:D:3049:LEU:HD11	1.78	0.47
1:D:4085:ARG:HH22	1:D:4122:MET:HE2	1.79	0.47
1:D:4197:ILE:HD13	1:D:4990:PHE:CD2	2.50	0.47
1:C:52:THR:HA	1:C:60:PRO:HG3	1.96	0.47
1:C:103:TYR:N	1:C:161:GLU:O	2.45	0.47
1:C:653:ALA:N	1:C:656:SER:OG	2.48	0.47
1:C:1708:ARG:NH1	1:C:1836:PHE:O	2.47	0.47
1:C:2012:PHE:CZ	1:C:2031:LEU:HD23	2.49	0.47
1:C:3282:PRO:HG3	1:C:3312:LEU:HD11	1.95	0.47
1:C:3817:LEU:HD13	1:C:3899:PHE:HD1	1.79	0.47
1:C:3957:VAL:O	1:C:3961:VAL:HG23	2.14	0.47
1:C:4189:ARG:NH2	1:C:5032:TYR:OH	2.46	0.47
1:A:425:PRO:HG3	1:A:506:TYR:CZ	2.49	0.47
1:A:437:PRO:HB2	1:A:440:ALA:HB3	1.97	0.47
1:A:3191:GLY:HA2	1:A:3272:ILE:HG23	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3695:PRO:HB2	1:A:3700:GLN:HG2	1.96	0.47
1:A:4968:PHE:O	1:A:4974:GLY:HA3	2.14	0.47
1:B:35:LEU:HG	1:B:51:PRO:HA	1.96	0.47
1:B:1297:PHE:HE1	1:B:1548:LEU:HD12	1.78	0.47
1:B:2517:PHE:CD1	1:B:2520:HIS:HE1	2.33	0.47
1:B:3069:HIS:ND1	1:B:3142:THR:OG1	2.27	0.47
1:B:3141:THR:CG2	1:B:3145:GLN:HE22	2.24	0.47
1:B:3202:PRO:C	1:B:3284:TRP:HH2	2.22	0.47
1:B:3605:HIS:O	1:B:3609:THR:HG23	2.15	0.47
1:B:4639:MET:HA	1:B:4642:ALA:HB3	1.95	0.47
1:D:818:ARG:NH2	1:D:1027:LEU:O	2.22	0.47
1:D:1446:SER:HA	1:D:1496:TRP:HE1	1.79	0.47
1:D:1465:ASP:HB3	1:D:1468:LYS:HB2	1.96	0.47
1:D:2135:LEU:HD21	1:D:3663:LEU:HD23	1.95	0.47
1:D:2575:ARG:HG3	1:D:2575:ARG:O	2.14	0.47
1:D:2952:GLU:HA	1:D:2957:PHE:CG	2.49	0.47
1:D:3369:ALA:HA	1:D:3372:VAL:HG22	1.96	0.47
1:D:3937:TYR:HD1	1:D:3940:LYS:HZ1	1.63	0.47
1:D:4805:ASN:HB3	1:D:4808:PHE:CD2	2.49	0.47
1:C:214:VAL:N	1:C:341:TYR:HB2	2.30	0.47
1:C:225:GLY:HA3	1:C:228:ASP:OD1	2.15	0.47
1:C:1095:VAL:HB	1:C:1199:VAL:HB	1.96	0.47
1:C:1465:ASP:HB3	1:C:1468:LYS:HB2	1.96	0.47
1:C:2177:LEU:O	1:C:2180:GLN:HG3	2.15	0.47
1:C:2234:ARG:O	1:C:2238:TYR:CB	2.62	0.47
1:C:2952:GLU:HA	1:C:2957:PHE:CG	2.49	0.47
1:C:3050:VAL:HG12	1:C:3131:TYR:CE1	2.49	0.47
1:C:3067:CYS:O	1:C:3070:ILE:HG22	2.15	0.47
1:C:3573:MET:O	1:C:3577:ARG:HG2	2.14	0.47
1:C:3941:ASP:OD1	1:C:3942:VAL:N	2.48	0.47
1:A:2198:MET:HA	1:A:2201:LEU:HD12	1.95	0.47
1:A:3168:THR:O	1:A:3172:ILE:HD12	2.14	0.47
1:A:3531:ASP:O	1:A:3534:MET:HG2	2.13	0.47
1:A:4931:ILE:O	1:A:4935:LEU:HG	2.14	0.47
1:B:71:GLN:HB2	1:B:147:TRP:HH2	1.80	0.47
1:B:225:GLY:HA3	1:B:228:ASP:OD1	2.15	0.47
1:B:2132:GLY:O	1:B:2136:ARG:HG3	2.15	0.47
1:B:2183:GLY:HA2	1:B:2234:ARG:HH22	1.79	0.47
1:B:2349:ASN:HA	1:B:2352:VAL:HG12	1.95	0.47
1:B:3069:HIS:CE1	1:B:3142:THR:HG1	2.24	0.47
1:B:3282:PRO:HG3	1:B:3312:LEU:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3817:LEU:HD13	1:B:3899:PHE:HD1	1.79	0.47
1:B:4193:ILE:HG12	1:B:5006:GLN:OE1	2.14	0.47
1:B:4866:SER:OG	1:B:4868:ASP:OD1	2.31	0.47
1:D:52:THR:HA	1:D:60:PRO:HG3	1.97	0.47
1:D:442:ILE:CG2	1:D:446:GLN:HE22	2.27	0.47
1:D:981:GLN:HE21	1:D:1055:PRO:HB3	1.80	0.47
1:D:2121:PHE:CZ	1:D:3701:LEU:HB2	2.49	0.47
1:D:2183:GLY:HA2	1:D:2234:ARG:HH22	1.79	0.47
1:D:2247:GLN:O	1:D:2279:SER:OG	2.33	0.47
1:D:2426:TYR:O	1:D:2430:ILE:HG12	2.15	0.47
1:D:2566:ALA:HA	1:D:2569:PHE:HD2	1.80	0.47
1:D:2913:ALA:HA	1:D:2916:LYS:HD2	1.96	0.47
1:D:4574:ASN:OD1	1:D:4810:ALA:HA	2.15	0.47
1:D:4959:PHE:HD2	1:D:4985:LEU:HD21	1.79	0.47
1:D:4968:PHE:O	1:D:4974:GLY:HA3	2.14	0.47
1:C:989:ALA:CB	1:C:1039:LEU:HD11	2.44	0.47
1:C:1105:ALA:O	1:C:1189:LEU:N	2.47	0.47
1:C:1297:PHE:HE1	1:C:1548:LEU:HD12	1.78	0.47
1:C:1849:LEU:HB3	1:C:1945:TYR:CE2	2.49	0.47
1:C:2012:PHE:HB2	1:C:2018:GLU:HA	1.96	0.47
1:C:2183:GLY:HA2	1:C:2234:ARG:HH22	1.79	0.47
1:C:2862:LEU:O	1:C:2928:LYS:HG3	2.13	0.47
1:C:3183:VAL:HA	1:C:3186:LEU:HB2	1.96	0.47
1:C:3996:PHE:CD2	1:C:4020:GLN:HG2	2.50	0.47
1:A:214:VAL:N	1:A:341:TYR:HB2	2.30	0.47
1:A:442:ILE:CG2	1:A:446:GLN:HE22	2.27	0.47
1:A:1291:LEU:HD13	1:A:1595:LEU:HD21	1.95	0.47
1:A:1849:LEU:HB3	1:A:1945:TYR:CE2	2.49	0.47
1:A:2153:MET:O	1:A:2157:GLU:HG2	2.15	0.47
1:A:2177:LEU:O	1:A:2180:GLN:HG3	2.15	0.47
1:A:2233:CYS:O	1:A:2236:LEU:N	2.48	0.47
1:A:2234:ARG:O	1:A:2238:TYR:CB	2.62	0.47
1:A:2247:GLN:O	1:A:2279:SER:OG	2.33	0.47
1:A:2533:ALA:HB1	1:A:2589:LEU:HD21	1.96	0.47
1:A:2579:VAL:O	1:A:2583:LEU:HG	2.14	0.47
1:A:2675:THR:HB	1:A:2710:LEU:HD13	1.97	0.47
1:A:3002:LEU:O	1:A:3006:ILE:HG12	2.14	0.47
1:A:3432:GLU:O	1:A:3436:ARG:NE	2.47	0.47
1:A:3573:MET:O	1:A:3577:ARG:HG2	2.14	0.47
1:A:3996:PHE:CD2	1:A:4020:GLN:HG2	2.50	0.47
1:A:4197:ILE:HD13	1:A:4990:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:7:ILE:HG23	1:D:737:LEU:HB2	1.96	0.47
1:B:52:THR:HA	1:B:60:PRO:HG3	1.96	0.47
1:B:103:TYR:N	1:B:161:GLU:O	2.45	0.47
1:B:103:TYR:CZ	1:B:163:VAL:HA	2.50	0.47
1:B:247:TYR:CE2	1:B:376:ALA:HB2	2.50	0.47
1:B:2004:GLU:OE1	1:B:2004:GLU:N	2.46	0.47
1:B:2135:LEU:HD21	1:B:3663:LEU:HD23	1.95	0.47
1:B:2177:LEU:O	1:B:2180:GLN:HG3	2.15	0.47
1:B:2247:GLN:O	1:B:2279:SER:OG	2.33	0.47
1:B:2359:ARG:NH1	1:C:179:TYR:OH	2.47	0.47
1:B:2431:ASP:HB2	1:B:2501:SER:HB2	1.97	0.47
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.14	0.47
1:B:3157:ILE:HD12	1:B:3202:PRO:HD3	1.95	0.47
1:B:3354:LEU:HA	1:B:3358:PHE:CD2	2.42	0.47
1:B:3432:GLU:O	1:B:3436:ARG:NE	2.47	0.47
1:B:3438:VAL:HG13	1:B:3517:MET:CE	2.45	0.47
1:B:3941:ASP:OD1	1:B:3942:VAL:N	2.48	0.47
1:B:4711:PHE:HB3	1:B:4712:PRO:CD	2.43	0.47
1:D:1032:LYS:C	1:D:1036:ARG:HE	2.23	0.47
1:D:1691:GLN:OE1	1:D:1691:GLN:N	2.43	0.47
1:D:2132:GLY:O	1:D:2136:ARG:HG3	2.15	0.47
1:D:2233:CYS:O	1:D:2236:LEU:N	2.48	0.47
1:D:3067:CYS:O	1:D:3070:ILE:HG22	2.15	0.47
1:D:3114:LYS:HD2	1:D:3116:SER:N	2.25	0.47
1:D:3157:ILE:C	1:D:3162:GLN:HE22	2.23	0.47
1:D:3670:GLU:HG2	1:D:3728:ILE:HA	1.95	0.47
1:D:3722:TYR:CD2	1:D:3782:MET:HE3	2.50	0.47
1:D:4138:ASP:O	1:D:4142:ASN:ND2	2.37	0.47
1:D:4193:ILE:HG12	1:D:5006:GLN:OE1	2.14	0.47
1:D:4778:TRP:O	1:D:4782:VAL:HG23	2.15	0.47
1:D:4900:GLU:OE1	1:D:4900:GLU:N	2.48	0.47
1:C:442:ILE:CG2	1:C:446:GLN:HE22	2.27	0.47
1:C:469:ARG:HD2	1:C:3712:GLU:OE1	2.15	0.47
1:C:2135:LEU:HD21	1:C:3663:LEU:HD23	1.95	0.47
1:C:3114:LYS:HD2	1:C:3116:SER:N	2.25	0.47
1:C:3236:VAL:HA	1:C:3239:MET:HE3	1.97	0.47
1:C:3438:VAL:HG13	1:C:3517:MET:CE	2.45	0.47
1:C:3629:ARG:O	1:C:3633:VAL:HG23	2.14	0.47
1:C:4060:LYS:HA	1:C:4063:ASP:OD2	2.14	0.47
1:A:1005:TRP:HH2	1:A:1013:ILE:HD13	1.78	0.47
1:A:2132:GLY:O	1:A:2136:ARG:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2624:ARG:HB2	1:A:2910:THR:HB	1.97	0.47
1:A:2907:PRO:O	1:A:2910:THR:OG1	2.28	0.47
1:A:3354:LEU:HD12	1:A:3415:TYR:CD2	2.45	0.47
1:A:3376:GLU:OE1	1:A:3380:ARG:NH1	2.47	0.47
1:A:4778:TRP:O	1:A:4782:VAL:HG23	2.15	0.47
1:B:425:PRO:HG3	1:B:506:TYR:CZ	2.49	0.47
1:B:2743:LEU:HD22	1:B:2811:GLU:OE1	2.15	0.47
1:B:2902:HIS:HD2	1:B:2903:PRO:HD2	1.79	0.47
1:B:2909:ASP:N	1:B:2909:ASP:OD1	2.46	0.47
1:B:3168:THR:O	1:B:3172:ILE:HD12	2.14	0.47
1:B:3722:TYR:CD2	1:B:3782:MET:HE3	2.50	0.47
1:D:35:LEU:HG	1:D:51:PRO:HA	1.96	0.47
1:D:155:LYS:HZ3	1:C:225:GLY:HA2	1.80	0.47
1:D:653:ALA:N	1:D:656:SER:OG	2.48	0.47
1:D:683:ARG:HB2	1:D:782:SER:HB2	1.96	0.47
1:D:1629:GLN:HE22	1:D:1631:GLN:HB3	1.80	0.47
1:D:2122:SER:O	1:D:2126:ARG:HG3	2.15	0.47
1:D:2153:MET:O	1:D:2157:GLU:HG2	2.15	0.47
1:D:2182:ILE:HG13	1:D:2234:ARG:NH1	2.29	0.47
1:D:2948:THR:HG22	1:D:2949:SER:N	2.29	0.47
1:D:3343:GLN:OE1	1:D:3414:ARG:NH2	2.47	0.47
1:D:3411:LEU:HD23	1:D:3414:ARG:NH2	2.29	0.47
1:D:3817:LEU:HD13	1:D:3899:PHE:HD1	1.79	0.47
1:D:3941:ASP:OD1	1:D:3942:VAL:N	2.48	0.47
1:D:3957:VAL:O	1:D:3961:VAL:HG23	2.14	0.47
1:C:437:PRO:HB2	1:C:440:ALA:HB3	1.97	0.47
1:C:2122:SER:O	1:C:2126:ARG:HG3	2.15	0.47
1:C:2132:GLY:O	1:C:2136:ARG:HG3	2.15	0.47
1:C:3002:LEU:O	1:C:3006:ILE:HG12	2.14	0.47
1:C:3202:PRO:C	1:C:3284:TRP:HH2	2.22	0.47
1:C:3411:LEU:HD23	1:C:3414:ARG:NH2	2.29	0.47
1:C:3424:LEU:HD23	1:C:3523:ASN:HD22	1.79	0.47
1:C:4193:ILE:HG12	1:C:5006:GLN:OE1	2.14	0.47
1:C:4711:PHE:HB3	1:C:4712:PRO:CD	2.44	0.47
1:C:4959:PHE:HD2	1:C:4985:LEU:HD21	1.79	0.47
1:C:4967:TYR:OH	1:C:5033:GLU:OE2	2.21	0.47
1:A:71:GLN:HB2	1:A:147:TRP:HH2	1.80	0.47
1:A:247:TYR:CE2	1:A:376:ALA:HB2	2.50	0.47
1:A:2426:TYR:O	1:A:2430:ILE:HG12	2.15	0.47
1:A:3716:LEU:HD13	1:A:3793:MET:HG3	1.97	0.47
1:A:3817:LEU:HD13	1:A:3899:PHE:HD1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4067:LYS:HB3	1:A:4103:PHE:HZ	1.80	0.47
1:A:4640:GLU:H	1:A:4640:GLU:CD	2.23	0.47
1:A:4928:LEU:O	1:A:4932:ILE:HD12	2.13	0.47
1:B:1087:ARG:HD2	1:B:1222:GLY:O	2.14	0.47
1:B:1657:LEU:O	1:B:1661:ARG:N	2.37	0.47
1:B:1708:ARG:NH1	1:B:1836:PHE:O	2.48	0.47
1:B:2559:LEU:HD11	1:B:2603:ILE:HG12	1.97	0.47
1:B:3002:LEU:O	1:B:3006:ILE:HG12	2.14	0.47
1:B:3147:ILE:CD1	1:B:3152:PHE:HB2	2.39	0.47
1:B:4888:TYR:OH	1:C:4917:ASP:OD2	2.21	0.47
1:B:4892:ARG:NH2	1:C:4898:GLY:HA3	2.23	0.47
1:D:437:PRO:HB2	1:D:440:ALA:HB3	1.97	0.47
1:D:2669:GLU:HA	1:D:2672:LEU:HB2	1.97	0.47
1:D:2716:ASP:OD1	1:D:2716:ASP:N	2.48	0.47
1:D:3202:PRO:C	1:D:3284:TRP:HH2	2.22	0.47
1:D:3368:ARG:HG2	1:D:3371:LYS:NZ	2.29	0.47
1:D:3428:ASN:O	1:D:3431:ALA:N	2.48	0.47
1:C:224:HIS:CD2	1:C:388:LEU:HG	2.50	0.47
1:C:683:ARG:HB2	1:C:782:SER:HB2	1.96	0.47
1:C:981:GLN:HE21	1:C:1055:PRO:HB3	1.80	0.47
1:C:2431:ASP:HB2	1:C:2501:SER:HB2	1.97	0.47
1:C:2517:PHE:CD1	1:C:2520:HIS:HE1	2.33	0.47
1:C:2743:LEU:HD22	1:C:2811:GLU:OE1	2.15	0.47
1:C:3605:HIS:O	1:C:3609:THR:HG23	2.15	0.47
1:C:4778:TRP:O	1:C:4782:VAL:HG23	2.15	0.47
1:A:16:THR:OG1	1:A:99:ARG:N	2.41	0.47
1:A:103:TYR:CZ	1:A:163:VAL:HA	2.50	0.47
1:A:881:LEU:O	1:A:885:THR:HG23	2.15	0.47
1:A:1708:ARG:NH1	1:A:1836:PHE:O	2.47	0.47
1:A:2026:ASP:OD1	1:A:2027:ILE:N	2.48	0.47
1:A:2694:GLU:OE2	1:A:2697:ARG:NE	2.40	0.47
1:A:3424:LEU:HD23	1:A:3523:ASN:HD22	1.79	0.47
1:A:3428:ASN:O	1:A:3431:ALA:N	2.48	0.47
1:A:3959:LYS:HB2	1:A:3959:LYS:HE2	1.73	0.47
2:G:18:ARG:NH1	2:G:51:GLY:HA3	2.29	0.47
2:G:73:LYS:HZ3	2:G:100:ASP:HB2	1.80	0.47
1:B:213:TYR:N	1:B:341:TYR:H	2.08	0.47
1:B:1297:PHE:HA	1:B:1522:LEU:HD22	1.97	0.47
1:B:2026:ASP:OD1	1:B:2027:ILE:N	2.48	0.47
1:B:2122:SER:O	1:B:2126:ARG:HG3	2.15	0.47
1:D:225:GLY:HA3	1:D:228:ASP:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2026:ASP:OD1	1:D:2027:ILE:N	2.48	0.47
1:D:2431:ASP:HB2	1:D:2501:SER:HB2	1.97	0.47
1:D:2517:PHE:CD1	1:D:2520:HIS:HE1	2.33	0.47
1:D:3236:VAL:HA	1:D:3239:MET:HE3	1.97	0.47
1:D:3438:VAL:HG13	1:D:3517:MET:CE	2.45	0.47
1:D:3527:PRO:HG2	1:D:3572:GLN:HB3	1.96	0.47
1:C:247:TYR:CE2	1:C:376:ALA:HB2	2.50	0.47
1:C:1291:LEU:HD13	1:C:1595:LEU:HD21	1.95	0.47
1:C:2004:GLU:OE1	1:C:2004:GLU:N	2.46	0.47
1:C:2153:MET:O	1:C:2157:GLU:HG2	2.15	0.47
1:C:3077:ALA:HB1	1:C:3156:VAL:HG21	1.97	0.47
1:C:3343:GLN:OE1	1:C:3414:ARG:NH2	2.47	0.47
1:C:3716:LEU:HD13	1:C:3793:MET:HG3	1.97	0.47
1:C:3959:LYS:HB2	1:C:3959:LYS:HE2	1.73	0.47
1:A:355:LEU:HD22	1:A:380:GLN:HB3	1.96	0.46
1:A:1629:GLN:HE22	1:A:1631:GLN:HB3	1.80	0.46
1:A:2449:GLU:O	1:A:2453:ILE:HG12	2.14	0.46
1:A:2517:PHE:CD1	1:A:2520:HIS:HE1	2.33	0.46
1:A:2536:LEU:HD23	1:A:2541:PHE:HD2	1.80	0.46
1:A:2559:LEU:HD11	1:A:2603:ILE:HG12	1.97	0.46
1:A:2908:TYR:HA	1:A:2911:LEU:HG	1.97	0.46
1:A:3527:PRO:HG2	1:A:3572:GLN:HB3	1.96	0.46
1:A:3681:GLY:O	1:A:3682:GLU:HG3	2.16	0.46
1:A:4090:LYS:NZ	1:A:4115:SER:OG	2.48	0.46
1:A:4574:ASN:OD1	1:A:4810:ALA:HA	2.15	0.46
2:E:105:LYS:HG2	2:E:107:GLU:OE1	2.14	0.46
2:H:49:MET:N	2:H:54:GLU:OE2	2.45	0.46
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.48	0.46
1:B:2624:ARG:HB2	1:B:2910:THR:HB	1.97	0.46
1:B:2908:TYR:HA	1:B:2911:LEU:HG	1.97	0.46
1:B:3758:MET:HB3	1:B:3762:ARG:HH12	1.80	0.46
1:B:3937:TYR:HA	1:B:3940:LYS:NZ	2.30	0.46
1:B:3959:LYS:HB2	1:B:3959:LYS:HE2	1.73	0.46
1:B:4574:ASN:OD1	1:B:4810:ALA:HA	2.15	0.46
1:B:4900:GLU:OE1	1:B:4900:GLU:N	2.48	0.46
1:D:247:TYR:CE2	1:D:376:ALA:HB2	2.50	0.46
1:D:2234:ARG:O	1:D:2238:TYR:CB	2.62	0.46
1:D:2907:PRO:O	1:D:2910:THR:OG1	2.28	0.46
1:D:3157:ILE:HG22	1:D:3162:GLN:NE2	2.30	0.46
1:D:3424:LEU:HD23	1:D:3523:ASN:HD22	1.79	0.46
1:D:4157:ASP:H	1:D:4161:ARG:NH1	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1658:ASP:N	1:C:1658:ASP:OD1	2.48	0.46
1:C:2026:ASP:OD1	1:C:2027:ILE:N	2.48	0.46
1:C:2233:CYS:O	1:C:2236:LEU:N	2.48	0.46
1:C:2536:LEU:HD23	1:C:2541:PHE:HD2	1.80	0.46
1:C:3157:ILE:C	1:C:3162:GLN:HE22	2.23	0.46
1:C:3354:LEU:O	1:C:3358:PHE:HB2	2.15	0.46
1:C:3369:ALA:HA	1:C:3372:VAL:HG22	1.96	0.46
1:C:3428:ASN:O	1:C:3431:ALA:N	2.48	0.46
1:C:3465:ASN:OD1	1:C:3467:MET:HB2	2.15	0.46
1:C:4157:ASP:H	1:C:4161:ARG:NH1	2.13	0.46
1:C:4241:THR:O	1:C:4245:MET:HE3	2.15	0.46
1:C:4574:ASN:OD1	1:C:4810:ALA:HA	2.15	0.46
1:C:4900:GLU:OE1	1:C:4900:GLU:N	2.48	0.46
1:A:650:VAL:HG23	1:A:777:PHE:HB2	1.98	0.46
1:A:1032:LYS:C	1:A:1036:ARG:HE	2.23	0.46
1:A:1130:GLN:NE2	1:A:1136:SER:HB2	2.31	0.46
1:A:2182:ILE:HG13	1:A:2234:ARG:NH1	2.30	0.46
1:A:2566:ALA:HA	1:A:2569:PHE:HD2	1.80	0.46
1:A:2609:ALA:O	1:A:2612[A]:ARG:NH1	2.48	0.46
1:A:2952:GLU:HA	1:A:2957:PHE:CG	2.49	0.46
1:A:3937:TYR:HA	1:A:3940:LYS:NZ	2.30	0.46
1:A:3991:GLY:HA2	1:A:3994:HIS:HD1	1.80	0.46
2:F:11:ASP:OD1	2:F:12:GLY:N	2.49	0.46
1:B:437:PRO:HB2	1:B:440:ALA:HB3	1.97	0.46
1:B:653:ALA:N	1:B:656:SER:OG	2.48	0.46
1:B:2182:ILE:HG13	1:B:2234:ARG:NH1	2.30	0.46
1:B:3465:ASN:OD1	1:B:3467:MET:HB2	2.14	0.46
1:B:3527:PRO:HG2	1:B:3572:GLN:HB3	1.96	0.46
1:B:3585:ASP:OD1	1:B:3586:ALA:N	2.49	0.46
1:B:3991:GLY:HA2	1:B:3994:HIS:HD1	1.80	0.46
1:D:359:TYR:HB2	1:D:374:LYS:NZ	2.31	0.46
1:D:651:GLY:HA3	1:D:776:LEU:HD23	1.97	0.46
1:D:1657:LEU:O	1:D:1661:ARG:N	2.37	0.46
1:D:2624:ARG:HB2	1:D:2910:THR:HB	1.97	0.46
1:D:2675:THR:HB	1:D:2710:LEU:HD13	1.97	0.46
1:C:359:TYR:HB2	1:C:374:LYS:NZ	2.31	0.46
1:C:425:PRO:HG3	1:C:506:TYR:CZ	2.49	0.46
1:C:651:GLY:HA3	1:C:776:LEU:HD23	1.97	0.46
1:C:2247:GLN:O	1:C:2279:SER:OG	2.33	0.46
1:C:2313:LEU:HD11	1:C:2418:LEU:HD21	1.97	0.46
1:C:2626:LEU:O	1:C:2630:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2913:ALA:HA	1:C:2916:LYS:HD2	1.96	0.46
1:C:3354:LEU:HA	1:C:3358:PHE:CD2	2.42	0.46
1:C:3604:TYR:HD2	1:C:3608:GLN:HE22	1.63	0.46
1:A:1297:PHE:HA	1:A:1522:LEU:HD22	1.98	0.46
1:A:2431:ASP:HB2	1:A:2501:SER:HB2	1.97	0.46
1:A:2799:GLU:O	1:A:2802:LYS:HB2	2.16	0.46
1:A:2981:VAL:HA	1:A:2985:ARG:HE	1.81	0.46
1:A:3722:TYR:CD2	1:A:3782:MET:HE3	2.50	0.46
2:H:18:ARG:NH1	2:H:51:GLY:HA3	2.29	0.46
2:G:11:ASP:OD1	2:G:12:GLY:N	2.48	0.46
1:B:2536:LEU:HD23	1:B:2541:PHE:HD2	1.80	0.46
1:D:71:GLN:HB2	1:D:147:TRP:HH2	1.80	0.46
1:D:881:LEU:O	1:D:885:THR:HG23	2.15	0.46
1:D:2012:PHE:HB2	1:D:2018:GLU:HA	1.96	0.46
1:D:2981:VAL:HA	1:D:2985:ARG:HE	1.81	0.46
1:D:3067:CYS:O	1:D:3071:LEU:HG	2.16	0.46
1:D:3629:ARG:O	1:D:3633:VAL:HG23	2.14	0.46
1:D:3695:PRO:HB2	1:D:3700:GLN:HG2	1.96	0.46
1:C:2426:TYR:O	1:C:2430:ILE:HG12	2.15	0.46
1:C:3157:ILE:HG22	1:C:3162:GLN:NE2	2.30	0.46
1:C:3786:CYS:SG	1:C:3794:VAL:HB	2.56	0.46
1:C:3937:TYR:HA	1:C:3940:LYS:NZ	2.30	0.46
1:A:225:GLY:HA3	1:A:228:ASP:OD1	2.15	0.46
1:A:1601:MET:CE	1:A:1602:PRO:HD2	2.39	0.46
1:A:2199:ARG:NH2	1:A:3861:GLU:OE2	2.49	0.46
1:A:2292:GLU:OE2	1:A:2292:GLU:N	2.34	0.46
1:A:2431:ASP:OD1	1:A:2435:ARG:NE	2.39	0.46
1:A:2541:PHE:O	1:A:2544:THR:HG22	2.14	0.46
1:A:2575:ARG:HG3	1:A:2575:ARG:O	2.14	0.46
1:A:3402:CYS:HB3	1:A:3458:PHE:CE1	2.51	0.46
1:B:27:THR:OG1	1:B:32:GLN:OE1	2.28	0.46
1:B:168:ASP:OD1	1:B:201:ASN:ND2	2.49	0.46
1:B:214:VAL:N	1:B:341:TYR:HB2	2.30	0.46
1:B:359:TYR:HB2	1:B:374:LYS:NZ	2.31	0.46
1:B:442:ILE:CG2	1:B:446:GLN:HE22	2.27	0.46
1:B:647:ASN:ND2	1:B:822:ARG:HB3	2.31	0.46
1:B:881:LEU:O	1:B:885:THR:HG23	2.15	0.46
1:B:1730:MET:HG3	1:B:1773:PRO:HG3	1.98	0.46
1:B:2802:LYS:HA	1:B:2802:LYS:HD3	1.67	0.46
1:B:3077:ALA:HB1	1:B:3156:VAL:HG21	1.97	0.46
1:B:4052:SER:O	1:B:4055:VAL:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4157:ASP:H	1:B:4161:ARG:NH1	2.13	0.46
1:D:168:ASP:OD1	1:D:201:ASN:ND2	2.49	0.46
1:D:224:HIS:CD2	1:D:388:LEU:HG	2.50	0.46
1:D:1105:ALA:O	1:D:1189:LEU:N	2.47	0.46
1:D:2268[B]:GLN:H	1:D:2268[B]:GLN:HG3	1.49	0.46
1:D:3002:LEU:O	1:D:3006:ILE:HG12	2.14	0.46
1:D:4182:GLU:HG2	1:D:4192:ARG:HG2	1.97	0.46
1:C:27:THR:OG1	1:C:32:GLN:OE1	2.28	0.46
1:C:103:TYR:CZ	1:C:163:VAL:HA	2.50	0.46
1:C:495:ASN:OD1	1:C:523:TYR:OH	2.30	0.46
1:C:650:VAL:HG23	1:C:777:PHE:HB2	1.98	0.46
1:C:1032:LYS:C	1:C:1036:ARG:HE	2.23	0.46
1:C:2098:VAL:HA	1:C:2101:MET:HG2	1.98	0.46
1:C:2500:ALA:HB2	1:C:2553:TYR:CD1	2.49	0.46
1:C:3067:CYS:O	1:C:3071:LEU:HG	2.16	0.46
1:A:110:ARG:HH11	1:A:115:ARG:HE	1.62	0.46
1:A:359:TYR:HB2	1:A:374:LYS:NZ	2.31	0.46
1:A:3585:ASP:OD1	1:A:3586:ALA:N	2.49	0.46
1:A:3786:CYS:SG	1:A:3794:VAL:HB	2.56	0.46
1:A:3941:ASP:OD1	1:A:3942:VAL:N	2.48	0.46
2:E:66:MET:HE1	2:E:74:LEU:HD21	1.96	0.46
2:G:55:VAL:HA	1:C:1785:ALA:H	1.79	0.46
1:B:418:LEU:HD13	1:B:493:ARG:HB2	1.98	0.46
1:B:716:PHE:HE1	1:B:764:VAL:HG11	1.81	0.46
1:B:2313:LEU:HD11	1:B:2418:LEU:HD21	1.97	0.46
1:B:2669:GLU:HA	1:B:2672:LEU:HB2	1.97	0.46
1:B:3139:VAL:O	1:B:3143:LEU:HD23	2.16	0.46
1:B:3369:ALA:HA	1:B:3372:VAL:HG22	1.96	0.46
1:B:4071:ILE:HA	1:B:4074:SER:HB3	1.98	0.46
1:B:4182:GLU:HG2	1:B:4192:ARG:HG2	1.97	0.46
1:B:4954:MET:HE3	3:B:5301:ATP:C8	2.51	0.46
1:D:103:TYR:CZ	1:D:163:VAL:HA	2.50	0.46
1:D:213:TYR:N	1:D:341:TYR:H	2.08	0.46
1:D:355:LEU:HD22	1:D:380:GLN:HB3	1.96	0.46
1:D:647:ASN:ND2	1:D:822:ARG:HB3	2.31	0.46
1:D:830:ARG:NH1	1:D:832:GLU:HB2	2.30	0.46
1:D:1930:LYS:C	1:D:1931:LEU:HD22	2.41	0.46
1:D:2098:VAL:HA	1:D:2101:MET:HG2	1.98	0.46
1:D:2536:LEU:HD23	1:D:2541:PHE:HD2	1.80	0.46
1:D:3183:VAL:HA	1:D:3186:LEU:HB2	1.96	0.46
1:D:3354:LEU:O	1:D:3358:PHE:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3605:HIS:O	1:D:3609:THR:HG23	2.15	0.46
1:D:4931:ILE:O	1:D:4935:LEU:HG	2.14	0.46
1:C:35:LEU:HG	1:C:51:PRO:HA	1.96	0.46
1:C:39:ALA:O	1:C:111:HIS:NE2	2.49	0.46
1:C:1297:PHE:HA	1:C:1522:LEU:HD22	1.98	0.46
1:C:1730:MET:HG3	1:C:1773:PRO:HG3	1.98	0.46
1:C:1930:LYS:C	1:C:1931:LEU:HD22	2.41	0.46
1:C:3402:CYS:HB3	1:C:3458:PHE:CE1	2.51	0.46
1:C:3585:ASP:OD1	1:C:3586:ALA:N	2.49	0.46
1:C:4954:MET:HE3	3:C:5301:ATP:C8	2.51	0.46
1:A:39:ALA:O	1:A:111:HIS:NE2	2.49	0.46
1:A:224:HIS:CD2	1:A:388:LEU:HG	2.50	0.46
1:A:530:ILE:HG21	1:A:540:PHE:HE2	1.81	0.46
1:A:1730:MET:HG3	1:A:1773:PRO:HG3	1.98	0.46
1:A:2098:VAL:HA	1:A:2101:MET:HG2	1.98	0.46
1:A:3157:ILE:C	1:A:3162:GLN:HE22	2.23	0.46
1:A:3308:THR:H	1:A:3311:HIS:HB2	1.81	0.46
1:A:3571:TRP:CE2	1:B:1228:ILE:HG12	2.49	0.46
1:A:3721:LEU:HD12	1:A:3721:LEU:HA	1.83	0.46
1:A:3758:MET:HB3	1:A:3762:ARG:HH12	1.80	0.46
2:G:66:MET:HE1	2:G:74:LEU:HD21	1.96	0.46
1:B:13:PHE:CE1	1:B:164:ARG:HG2	2.51	0.46
1:B:392:ARG:HH21	1:B:3910:THR:HA	1.80	0.46
1:B:530:ILE:HG21	1:B:540:PHE:HE2	1.81	0.46
1:B:1629:GLN:NE2	1:B:1631:GLN:HB3	2.31	0.46
1:B:1849:LEU:HB3	1:B:1945:TYR:CE2	2.49	0.46
1:B:2098:VAL:HA	1:B:2101:MET:HG2	1.98	0.46
1:B:2234:ARG:O	1:B:2238:TYR:CB	2.63	0.46
1:B:2619:LEU:HD13	1:B:2647:HIS:CE1	2.50	0.46
1:B:3840:SER:OG	1:B:3877:ASP:OD1	2.28	0.46
1:D:303:ASP:H	1:D:306:LYS:HE3	1.80	0.46
1:D:716:PHE:HE1	1:D:764:VAL:HG11	1.81	0.46
1:D:2237:CYS:O	1:D:2240:CYS:HB2	2.16	0.46
1:D:2283:ASN:ND2	1:D:2286:LEU:HG	2.31	0.46
1:D:2609:ALA:O	1:D:2612[A]:ARG:NH1	2.48	0.46
1:D:2743:LEU:HD22	1:D:2811:GLU:OE1	2.15	0.46
1:D:3965:LEU:O	1:D:3969:ILE:HG12	2.16	0.46
1:D:4067:LYS:HB3	1:D:4103:PHE:HZ	1.80	0.46
1:D:4640:GLU:H	1:D:4640:GLU:CD	2.23	0.46
1:C:1297:PHE:CD2	1:C:1522:LEU:HA	2.51	0.46
1:C:1629:GLN:HE22	1:C:1631:GLN:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2619:LEU:HD13	1:C:2647:HIS:CE1	2.50	0.46
1:C:2807:TRP:HA	1:C:2810:LYS:HG2	1.98	0.46
1:C:3078:ARG:HG2	1:C:3082:LYS:NZ	2.31	0.46
1:C:3695:PRO:HB2	1:C:3700:GLN:HG2	1.97	0.46
1:C:3937:TYR:HD1	1:C:3940:LYS:HZ1	1.63	0.46
1:A:52:THR:HA	1:A:60:PRO:HG3	1.96	0.46
1:A:392:ARG:HH21	1:A:3910:THR:HA	1.80	0.46
1:A:418:LEU:HD13	1:A:493:ARG:HB2	1.98	0.46
1:A:469:ARG:HD2	1:A:3712:GLU:OE1	2.15	0.46
1:A:2024:PRO:O	1:A:2027:ILE:HG22	2.16	0.46
1:A:2358:ILE:HB	1:B:195:PHE:CD1	2.50	0.46
1:A:3067:CYS:O	1:A:3071:LEU:HG	2.16	0.46
1:A:3139:VAL:O	1:A:3143:LEU:HD23	2.16	0.46
1:A:3236:VAL:HA	1:A:3239:MET:HE3	1.97	0.46
1:A:3343:GLN:OE1	1:A:3414:ARG:NH2	2.47	0.46
1:A:3965:LEU:O	1:A:3969:ILE:HG12	2.16	0.46
2:H:66:MET:HE1	2:H:74:LEU:HD21	1.96	0.46
1:B:469:ARG:HD2	1:B:3712:GLU:OE1	2.15	0.46
1:B:1297:PHE:CD2	1:B:1522:LEU:HA	2.51	0.46
1:B:2237:CYS:O	1:B:2240:CYS:HB2	2.16	0.46
1:B:2480:GLY:O	1:B:2484:ALA:N	2.47	0.46
1:B:2575:ARG:O	1:B:2575:ARG:HG3	2.14	0.46
1:B:3604:TYR:HD2	1:B:3608:GLN:HE22	1.63	0.46
1:B:3681:GLY:O	1:B:3682:GLU:HG3	2.16	0.46
1:B:3965:LEU:O	1:B:3969:ILE:HG12	2.16	0.46
1:B:4892:ARG:NH1	1:C:4917:ASP:HB3	2.31	0.46
1:D:110:ARG:HH11	1:D:115:ARG:HE	1.62	0.46
1:D:469:ARG:HD2	1:D:3712:GLU:OE1	2.15	0.46
1:D:650:VAL:HG23	1:D:777:PHE:HB2	1.98	0.46
1:D:1521:ASP:HB3	1:D:1524:THR:OG1	2.16	0.46
1:D:2619:LEU:HD13	1:D:2647:HIS:CE1	2.51	0.46
1:D:3077:ALA:HB1	1:D:3156:VAL:HG21	1.97	0.46
1:D:3540:TYR:O	1:D:3543:LYS:HD2	2.16	0.46
1:D:3681:GLY:O	1:D:3682:GLU:HG3	2.16	0.46
1:D:3937:TYR:HA	1:D:3940:LYS:NZ	2.30	0.46
1:C:110:ARG:HH11	1:C:115:ARG:HE	1.62	0.46
1:C:2431:ASP:OD1	1:C:2435:ARG:NE	2.39	0.46
1:C:2559:LEU:HD11	1:C:2603:ILE:HG12	1.97	0.46
1:C:3069:HIS:ND1	1:C:3142:THR:OG1	2.27	0.46
1:C:4052:SER:O	1:C:4055:VAL:N	2.48	0.46
1:C:4071:ILE:HA	1:C:4074:SER:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:PHE:CE1	1:A:164:ARG:HG2	2.51	0.46
1:A:647:ASN:ND2	1:A:822:ARG:HB3	2.31	0.46
1:A:1521:ASP:HB3	1:A:1524:THR:OG1	2.16	0.46
2:F:66:MET:HE1	2:F:74:LEU:HD21	1.96	0.46
1:B:2189:LYS:HZ3	1:B:2192:TYR:HB2	1.81	0.46
1:B:2233:CYS:O	1:B:2236:LEU:N	2.48	0.46
1:B:3428:ASN:O	1:B:3431:ALA:N	2.48	0.46
1:B:3786:CYS:SG	1:B:3794:VAL:HB	2.56	0.46
1:B:4241:THR:O	1:B:4245:MET:HE3	2.15	0.46
1:B:4998:LYS:HB3	1:B:5003:HIS:CE1	2.51	0.46
1:D:39:ALA:O	1:D:111:HIS:NE2	2.49	0.46
1:D:530:ILE:HG21	1:D:540:PHE:HE2	1.81	0.46
1:D:1297:PHE:HA	1:D:1522:LEU:HD22	1.98	0.46
1:D:2271:THR:HG23	1:D:2274:ASP:N	2.27	0.46
1:D:2908:TYR:HA	1:D:2911:LEU:HG	1.97	0.46
1:D:3402:CYS:HB3	1:D:3458:PHE:CE1	2.51	0.46
1:C:71:GLN:HB2	1:C:147:TRP:HH2	1.80	0.46
1:C:881:LEU:O	1:C:885:THR:HG23	2.15	0.46
1:C:1450:VAL:HB	1:C:1516:ILE:HD13	1.98	0.46
1:C:2533:ALA:HB1	1:C:2589:LEU:HD21	1.96	0.46
1:C:2624:ARG:HB2	1:C:2910:THR:HB	1.97	0.46
1:C:2675:THR:HB	1:C:2710:LEU:HD13	1.97	0.46
1:C:2908:TYR:HA	1:C:2911:LEU:HG	1.97	0.46
1:C:3681:GLY:O	1:C:3682:GLU:HG3	2.16	0.46
1:C:4651:THR:OG1	1:C:4803:HIS:NE2	2.36	0.46
1:A:54:ASN:OD1	1:A:57:ASN:N	2.32	0.46
1:A:1690:ASP:O	1:A:1693:GLN:HB2	2.16	0.46
1:A:2271:THR:HG23	1:A:2274:ASP:N	2.27	0.46
1:A:2743:LEU:HD22	1:A:2811:GLU:OE1	2.15	0.46
1:A:3157:ILE:HG22	1:A:3162:GLN:NE2	2.30	0.46
1:A:3349:ALA:HB3	1:A:3415:TYR:CE1	2.48	0.46
1:A:3354:LEU:O	1:A:3358:PHE:HB2	2.15	0.46
1:A:3368:ARG:HG2	1:A:3371:LYS:NZ	2.29	0.46
1:A:4052:SER:O	1:A:4055:VAL:N	2.48	0.46
1:A:4182:GLU:HG2	1:A:4192:ARG:HG2	1.97	0.46
2:H:75:THR:HG23	2:H:98:VAL:HG22	1.98	0.46
1:B:224:HIS:CD2	1:B:388:LEU:HG	2.50	0.46
1:B:262:LEU:HD21	1:B:280:LEU:HD22	1.98	0.46
1:B:929:LEU:O	1:B:933:LEU:HG	2.16	0.46
1:B:1470:ARG:HB3	1:B:1491:ASN:CG	2.41	0.46
1:B:1490:SER:OG	1:B:1492:CYS:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2426:TYR:O	1:B:2430:ILE:HG12	2.15	0.46
1:B:2761:TYR:HB3	1:B:2929:PHE:CZ	2.51	0.46
1:B:2807:TRP:HA	1:B:2810:LYS:HG2	1.98	0.46
1:B:3067:CYS:O	1:B:3071:LEU:HG	2.16	0.46
1:B:3213:TYR:CD2	1:B:3302:PRO:HG2	2.51	0.46
1:B:4640:GLU:CD	1:B:4640:GLU:H	2.23	0.46
1:D:1125:ASN:H	1:D:1128:ARG:NH1	2.14	0.46
1:D:1490:SER:OG	1:D:1492:CYS:O	2.34	0.46
1:D:2292:GLU:OE2	1:D:2292:GLU:N	2.35	0.46
1:D:2559:LEU:HD11	1:D:2603:ILE:HG12	1.97	0.46
1:D:3991:GLY:HA2	1:D:3994:HIS:HD1	1.80	0.46
1:D:4052:SER:O	1:D:4055:VAL:N	2.48	0.46
1:D:4954:MET:HE3	3:D:5301:ATP:C8	2.51	0.46
1:C:392:ARG:HH21	1:C:3910:THR:HA	1.80	0.46
1:C:971:ASP:OD2	1:C:974:HIS:HB3	2.16	0.46
1:C:1452:TRP:CZ3	1:C:1550:PRO:HG3	2.51	0.46
1:C:1470:ARG:HB3	1:C:1491:ASN:CG	2.41	0.46
1:C:1690:ASP:HB3	1:C:1693:GLN:HG3	1.98	0.46
1:C:2199:ARG:NH2	1:C:3861:GLU:OE2	2.49	0.46
1:C:2283:ASN:ND2	1:C:2286:LEU:HG	2.31	0.46
1:C:2669:GLU:HA	1:C:2672:LEU:HB2	1.97	0.46
1:C:2799:GLU:O	1:C:2802:LYS:HB2	2.16	0.46
1:C:3263:TYR:HD1	1:C:3270:ILE:HD12	1.78	0.46
1:C:4067:LYS:HB3	1:C:4103:PHE:HZ	1.80	0.46
1:C:4182:GLU:HG2	1:C:4192:ARG:HG2	1.97	0.46
1:A:103:TYR:N	1:A:161:GLU:O	2.45	0.46
1:A:651:GLY:HA3	1:A:776:LEU:HD23	1.97	0.46
1:A:716:PHE:HE1	1:A:764:VAL:HG11	1.81	0.46
1:A:2619:LEU:HD13	1:A:2647:HIS:CE1	2.51	0.46
1:A:3213:TYR:CD2	1:A:3302:PRO:HG2	2.51	0.46
1:A:3937:TYR:HD1	1:A:3940:LYS:HZ1	1.64	0.46
1:A:4900:GLU:OE1	1:A:4900:GLU:N	2.48	0.46
1:B:39:ALA:O	1:B:111:HIS:NE2	2.49	0.46
1:B:981:GLN:HE21	1:B:1055:PRO:HB3	1.80	0.46
1:B:1032:LYS:C	1:B:1036:ARG:HE	2.23	0.46
1:B:1629:GLN:HE22	1:B:1631:GLN:HB3	1.80	0.46
1:B:1930:LYS:C	1:B:1931:LEU:HD22	2.41	0.46
1:B:2199:ARG:NH2	1:B:3861:GLU:OE2	2.49	0.46
1:B:3154:ASP:HA	1:B:3202:PRO:HB3	1.98	0.46
1:B:3157:ILE:HG22	1:B:3162:GLN:NE2	2.30	0.46
1:B:3157:ILE:C	1:B:3162:GLN:HE22	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3199:ALA:O	1:B:3283:ARG:NE	2.49	0.46
1:B:3236:VAL:HA	1:B:3239:MET:HE3	1.97	0.46
1:B:4778:TRP:O	1:B:4782:VAL:HG23	2.15	0.46
1:D:232:THR:CG2	1:D:257:ARG:HE	2.29	0.46
1:D:392:ARG:HH21	1:D:3910:THR:HA	1.80	0.46
1:D:1100:MET:HE2	1:D:1100:MET:HB2	1.79	0.46
1:D:2761:TYR:HB3	1:D:2929:PHE:CZ	2.51	0.46
1:D:2807:TRP:HA	1:D:2810:LYS:HG2	1.98	0.46
1:D:3078:ARG:HG2	1:D:3082:LYS:NZ	2.31	0.46
1:D:3585:ASP:OD1	1:D:3586:ALA:N	2.49	0.46
1:D:3786:CYS:SG	1:D:3794:VAL:HB	2.56	0.46
1:D:4085:ARG:NH2	1:D:4122:MET:HE2	2.31	0.46
1:D:4967:TYR:OH	1:D:5033:GLU:OE2	2.21	0.46
1:C:13:PHE:CE1	1:C:164:ARG:HG2	2.51	0.46
1:C:132:ALA:HA	1:C:193:ALA:O	2.16	0.46
1:C:140:ASP:OD2	1:C:142:THR:OG1	2.31	0.46
1:C:253:CYS:O	1:C:258:SER:OG	2.25	0.46
1:C:262:LEU:HD21	1:C:280:LEU:HD22	1.98	0.46
1:C:1450:VAL:HG22	1:C:1552:VAL:HG22	1.98	0.46
1:C:1808:ARG:HH11	1:C:1853:ILE:HG22	1.81	0.46
1:C:3199:ALA:O	1:C:3283:ARG:NE	2.49	0.46
1:C:3695:PRO:HB3	1:C:3699:HIS:HB3	1.98	0.46
1:A:303:ASP:H	1:A:306:LYS:HE3	1.80	0.45
1:A:929:LEU:O	1:A:933:LEU:HG	2.16	0.45
1:A:981:GLN:HE21	1:A:1055:PRO:HB3	1.80	0.45
1:A:1930:LYS:C	1:A:1931:LEU:HD22	2.41	0.45
1:A:2122:SER:O	1:A:2126:ARG:HG3	2.15	0.45
1:A:2313:LEU:HD11	1:A:2418:LEU:HD21	1.97	0.45
1:A:4241:THR:O	1:A:4245:MET:HE3	2.15	0.45
1:A:4998:LYS:HB3	1:A:5003:HIS:CE1	2.51	0.45
2:E:49:MET:N	2:E:54:GLU:OE2	2.45	0.45
2:G:75:THR:HG23	2:G:98:VAL:HG22	1.98	0.45
1:B:223:PHE:CE2	1:B:230:CYS:HB2	2.51	0.45
1:B:303:ASP:H	1:B:306:LYS:HE3	1.80	0.45
1:B:650:VAL:HG23	1:B:777:PHE:HB2	1.98	0.45
1:B:651:GLY:HA3	1:B:776:LEU:HD23	1.97	0.45
1:B:717:ASP:HB3	1:B:720:HIS:H	1.81	0.45
1:B:830:ARG:NH1	1:B:832:GLU:HB2	2.29	0.45
1:B:1690:ASP:HB3	1:B:1693:GLN:HG3	1.98	0.45
1:B:2024:PRO:O	1:B:2027:ILE:HG22	2.16	0.45
1:B:2475:GLN:H	1:B:2475:GLN:CD	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2675:THR:HB	1:B:2710:LEU:HD13	1.97	0.45
1:B:2799:GLU:O	1:B:2802:LYS:HB2	2.16	0.45
1:B:3078:ARG:HG2	1:B:3082:LYS:NZ	2.31	0.45
1:B:4148:THR:HG22	1:B:4152:GLU:OE2	2.16	0.45
1:D:483:MET:O	1:D:487:VAL:HG23	2.17	0.45
1:D:1730:MET:HG3	1:D:1773:PRO:HG3	1.98	0.45
1:D:2626:LEU:O	1:D:2630:VAL:HG23	2.15	0.45
1:D:4090:LYS:NZ	1:D:4115:SER:OG	2.48	0.45
1:C:223:PHE:CE2	1:C:230:CYS:HB2	2.51	0.45
1:C:530:ILE:HG21	1:C:540:PHE:HE2	1.81	0.45
1:C:717:ASP:HB2	1:C:722:TRP:CD1	2.52	0.45
1:C:2694:GLU:OE2	1:C:2697:ARG:NE	2.40	0.45
1:C:2948:THR:HG22	1:C:2949:SER:N	2.29	0.45
1:A:132:ALA:HA	1:A:193:ALA:O	2.16	0.45
1:A:1450:VAL:HG22	1:A:1552:VAL:HG22	1.97	0.45
1:A:2500:ALA:HB2	1:A:2553:TYR:CD1	2.49	0.45
1:A:2669:GLU:HA	1:A:2672:LEU:HB2	1.97	0.45
1:A:2927:LEU:HD23	1:A:2927:LEU:HA	1.79	0.45
1:A:3078:ARG:HG2	1:A:3082:LYS:NZ	2.31	0.45
1:A:4738:ALA:HA	1:A:4743:MET:HG2	1.99	0.45
2:H:11:ASP:OD1	2:H:12:GLY:N	2.48	0.45
2:H:42:ARG:HH21	1:D:1780:PRO:HB2	1.80	0.45
1:B:110:ARG:HH11	1:B:115:ARG:HE	1.62	0.45
1:B:1008:SER:CB	1:B:1017:ARG:HB3	2.46	0.45
1:B:1450:VAL:HG22	1:B:1552:VAL:HG22	1.97	0.45
1:B:2283:ASN:ND2	1:B:2286:LEU:HG	2.31	0.45
1:B:2626:LEU:O	1:B:2630:VAL:HG23	2.15	0.45
1:B:2781:VAL:HB	1:B:2789:PRO:HG3	1.98	0.45
1:B:3354:LEU:HD12	1:B:3415:TYR:CD2	2.45	0.45
1:B:3354:LEU:O	1:B:3358:PHE:HB2	2.15	0.45
1:B:4232:GLU:OE2	1:B:5017:ARG:NH1	2.43	0.45
1:D:140:ASP:OD2	1:D:142:THR:OG1	2.31	0.45
1:D:1690:ASP:O	1:D:1693:GLN:HB2	2.16	0.45
1:D:1808:ARG:HH11	1:D:1853:ILE:HG22	1.81	0.45
1:D:2199:ARG:NH2	1:D:3861:GLU:OE2	2.49	0.45
1:D:2858:GLN:N	1:D:2859:PRO:HD3	2.31	0.45
1:D:3154:ASP:HA	1:D:3202:PRO:HB3	1.98	0.45
1:D:3308:THR:H	1:D:3311:HIS:HB2	1.81	0.45
1:D:4241:THR:O	1:D:4245:MET:HE3	2.15	0.45
1:D:4998:LYS:HB3	1:D:5003:HIS:CE1	2.51	0.45
1:C:1521:ASP:HB3	1:C:1524:THR:OG1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1629:GLN:NE2	1:C:1631:GLN:HB3	2.31	0.45
1:C:2981:VAL:HA	1:C:2985:ARG:HE	1.80	0.45
1:C:3758:MET:HB3	1:C:3762:ARG:HH12	1.80	0.45
1:C:3965:LEU:O	1:C:3969:ILE:HG12	2.16	0.45
1:C:3991:GLY:HA2	1:C:3994:HIS:HD1	1.80	0.45
1:A:445:LEU:O	1:A:449:ILE:HD12	2.16	0.45
1:A:717:ASP:HB3	1:A:720:HIS:H	1.81	0.45
1:A:1294:PRO:HB3	1:A:1549:PHE:CE1	2.49	0.45
1:A:1629:GLN:NE2	1:A:1631:GLN:HB3	2.31	0.45
1:A:1654:SER:HB3	1:A:1704:PRO:HD3	1.98	0.45
1:A:2475:GLN:CD	1:A:2475:GLN:H	2.24	0.45
1:A:2807:TRP:HA	1:A:2810:LYS:HG2	1.98	0.45
1:A:3077:ALA:HB1	1:A:3156:VAL:HG21	1.97	0.45
1:A:3154:ASP:HA	1:A:3202:PRO:HB3	1.98	0.45
1:A:3540:TYR:O	1:A:3543:LYS:HD2	2.16	0.45
1:A:3604:TYR:HD2	1:A:3608:GLN:HE22	1.63	0.45
1:A:4020:GLN:O	1:A:4024:VAL:HG23	2.17	0.45
1:A:4148:THR:HG22	1:A:4152:GLU:OE2	2.16	0.45
1:B:232:THR:CG2	1:B:257:ARG:HE	2.29	0.45
1:B:1450:VAL:HB	1:B:1516:ILE:HD13	1.98	0.45
1:B:4085:ARG:NH2	1:B:4122:MET:HE2	2.31	0.45
1:B:4090:LYS:NZ	1:B:4115:SER:OG	2.48	0.45
1:D:223:PHE:CE2	1:D:230:CYS:HB2	2.51	0.45
1:D:418:LEU:HD13	1:D:493:ARG:HB2	1.98	0.45
1:D:537:CYS:SG	1:D:570:GLU:HB3	2.56	0.45
1:D:1260:MET:O	1:D:1260:MET:HG3	2.16	0.45
1:D:1297:PHE:CD2	1:D:1522:LEU:HA	2.51	0.45
1:D:1452:TRP:CZ3	1:D:1550:PRO:HG3	2.51	0.45
1:D:2284:ASN:ND2	1:D:3856:LEU:HD23	2.32	0.45
1:D:2475:GLN:CD	1:D:2475:GLN:H	2.24	0.45
1:D:3283:ARG:HH12	1:D:3287:ARG:NH2	2.15	0.45
1:D:3716:LEU:HD13	1:D:3793:MET:HG3	1.97	0.45
1:D:4661:TYR:OH	1:D:4786:ASP:OD2	2.31	0.45
1:C:168:ASP:OD1	1:C:201:ASN:ND2	2.49	0.45
1:C:303:ASP:H	1:C:306:LYS:HE3	1.80	0.45
1:C:1260:MET:O	1:C:1260:MET:HG3	2.16	0.45
1:C:2566:ALA:HA	1:C:2569:PHE:HD2	1.80	0.45
1:C:3213:TYR:CD2	1:C:3302:PRO:HG2	2.51	0.45
1:C:4640:GLU:H	1:C:4640:GLU:CD	2.23	0.45
1:C:4998:LYS:HB3	1:C:5003:HIS:CE1	2.51	0.45
1:A:772:ASN:N	1:A:1470:ARG:HH22	2.09	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:986:ASP:HA	1:A:1039:LEU:HD13	1.99	0.45
1:A:1125:ASN:H	1:A:1128:ARG:NH1	2.14	0.45
1:A:1452:TRP:CZ3	1:A:1550:PRO:HG3	2.51	0.45
1:A:2434:GLY:O	1:A:2508:ARG:HG2	2.17	0.45
1:A:2761:TYR:HB3	1:A:2929:PHE:CZ	2.51	0.45
1:A:2781:VAL:HB	1:A:2789:PRO:HG3	1.98	0.45
1:A:3283:ARG:HH12	1:A:3287:ARG:NH2	2.15	0.45
1:A:4954:MET:HE3	3:A:5301:ATP:C8	2.51	0.45
1:B:1452:TRP:CZ3	1:B:1550:PRO:HG3	2.51	0.45
1:B:2566:ALA:HA	1:B:2569:PHE:HD2	1.80	0.45
1:B:2981:VAL:HA	1:B:2985:ARG:HE	1.81	0.45
1:B:3368:ARG:HG2	1:B:3371:LYS:HZ2	1.81	0.45
1:B:4189:ARG:HB3	1:B:5031:GLN:HE22	1.81	0.45
1:D:13:PHE:CE1	1:D:164:ARG:HG2	2.51	0.45
1:D:971:ASP:OD2	1:D:974:HIS:HB3	2.16	0.45
1:D:1470:ARG:HB3	1:D:1491:ASN:CG	2.41	0.45
1:C:743:VAL:HG21	1:C:801:LYS:HE2	1.99	0.45
1:C:815:VAL:O	1:C:1007:TYR:OH	2.28	0.45
1:C:929:LEU:O	1:C:933:LEU:HG	2.16	0.45
1:C:2190:VAL:HG13	1:C:2194:HIS:ND1	2.31	0.45
1:C:2237:CYS:O	1:C:2240:CYS:HB2	2.16	0.45
1:C:2292:GLU:OE2	1:C:2292:GLU:N	2.34	0.45
1:C:2499:LYS:NZ	1:C:2529:ASP:OD1	2.44	0.45
1:C:2609:ALA:O	1:C:2612[A]:ARG:NH1	2.48	0.45
1:C:3722:TYR:CD2	1:C:3782:MET:HE3	2.50	0.45
1:C:4189:ARG:HB3	1:C:5031:GLN:HE22	1.81	0.45
1:A:2012:PHE:HB2	1:A:2018:GLU:HA	1.96	0.45
1:A:2138:LEU:HD13	1:A:3658:LYS:HG3	1.99	0.45
1:A:2480:GLY:O	1:A:2484:ALA:N	2.47	0.45
1:A:4713:SER:OG	1:A:4775:TYR:OH	2.30	0.45
1:B:445:LEU:O	1:B:449:ILE:HD12	2.16	0.45
1:B:1131:ARG:HD3	1:B:1139:PHE:HB2	1.99	0.45
1:B:2017:ASP:HB2	1:B:2020:ASP:HB3	1.99	0.45
1:B:2190:VAL:HG13	1:B:2194:HIS:ND1	2.31	0.45
1:B:3402:CYS:HB3	1:B:3458:PHE:CE1	2.51	0.45
1:B:3442:PHE:CZ	1:B:3514:LEU:HD22	2.52	0.45
1:B:3937:TYR:HD1	1:B:3940:LYS:HZ1	1.63	0.45
1:D:132:ALA:HA	1:D:193:ALA:O	2.17	0.45
1:D:986:ASP:HA	1:D:1039:LEU:HD13	1.99	0.45
1:D:1450:VAL:HG22	1:D:1552:VAL:HG22	1.97	0.45
1:D:1478:ASP:HB3	1:D:1482:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2138:LEU:HD13	1:D:3658:LYS:HG3	1.99	0.45
1:D:2313:LEU:HD11	1:D:2418:LEU:HD21	1.97	0.45
1:D:4232:GLU:OE1	1:D:5019:TRP:NE1	2.42	0.45
1:D:4700:GLN:HA	1:D:4703:ARG:HG3	1.99	0.45
1:D:4738:ALA:HA	1:D:4743:MET:HG2	1.99	0.45
1:C:647:ASN:ND2	1:C:822:ARG:HB3	2.31	0.45
1:C:716:PHE:HE1	1:C:764:VAL:HG11	1.80	0.45
1:C:717:ASP:HB3	1:C:720:HIS:H	1.81	0.45
1:C:2284:ASN:ND2	1:C:3856:LEU:HD23	2.32	0.45
1:C:2929:PHE:CE1	1:C:2932:MET:HE2	2.52	0.45
1:C:3391:GLU:C	1:C:3395:ARG:HE	2.25	0.45
1:C:3442:PHE:CZ	1:C:3514:LEU:HD22	2.52	0.45
1:C:3459:VAL:HG13	1:C:3464:ILE:HG13	1.99	0.45
1:C:3540:TYR:O	1:C:3543:LYS:HD2	2.16	0.45
1:A:168:ASP:OD1	1:A:201:ASN:ND2	2.49	0.45
1:A:213:TYR:HA	1:A:339:ILE:O	2.17	0.45
1:A:348:VAL:HG23	1:A:388:LEU:HD13	1.99	0.45
1:A:1008:SER:CB	1:A:1017:ARG:HB3	2.46	0.45
1:A:1470:ARG:HB3	1:A:1491:ASN:CG	2.41	0.45
1:A:2017:ASP:HB2	1:A:2020:ASP:HB3	1.99	0.45
1:A:2284:ASN:ND2	1:A:3856:LEU:HD23	2.32	0.45
1:A:2626:LEU:O	1:A:2630:VAL:HG23	2.15	0.45
1:A:2676:ARG:O	1:A:2680:TRP:HD1	2.00	0.45
1:B:103:TYR:CE1	1:B:163:VAL:HA	2.52	0.45
1:B:495:ASN:OD1	1:B:523:TYR:OH	2.30	0.45
1:B:1128:ARG:HD2	1:B:1130:GLN:O	2.17	0.45
1:B:1568:LYS:HG2	1:B:1589:PRO:HG3	1.99	0.45
1:B:1808:ARG:HH11	1:B:1853:ILE:HG22	1.80	0.45
1:B:2233:CYS:HB3	1:B:2237:CYS:HB2	1.72	0.45
1:B:3308:THR:H	1:B:3311:HIS:HB2	1.81	0.45
1:D:717:ASP:HB2	1:D:722:TRP:CD1	2.52	0.45
1:D:929:LEU:O	1:D:933:LEU:HG	2.17	0.45
1:D:1257:VAL:HG22	1:D:1272:LEU:HD12	1.99	0.45
1:D:2248:ARG:HD3	1:D:2286:LEU:HD21	1.99	0.45
1:D:2434:GLY:O	1:D:2508:ARG:HG2	2.17	0.45
1:D:2540:THR:O	1:D:2543:THR:OG1	2.27	0.45
1:D:2799:GLU:O	1:D:2802:LYS:HB2	2.16	0.45
1:D:3459:VAL:HG13	1:D:3464:ILE:HG13	1.99	0.45
1:D:4071:ILE:HA	1:D:4074:SER:HB3	1.98	0.45
1:C:284:HIS:HB3	1:C:287:THR:OG1	2.17	0.45
1:C:537:CYS:SG	1:C:570:GLU:HB3	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:683:ARG:HB2	1:C:782:SER:O	2.17	0.45
1:C:1131:ARG:HD3	1:C:1139:PHE:HB2	1.99	0.45
1:C:2024:PRO:O	1:C:2027:ILE:HG22	2.16	0.45
1:C:4231:MET:HA	1:C:4231:MET:CE	2.47	0.45
1:A:483:MET:O	1:A:487:VAL:HG23	2.17	0.45
1:A:537:CYS:SG	1:A:570:GLU:HB3	2.56	0.45
1:A:683:ARG:HB2	1:A:782:SER:O	2.17	0.45
1:A:705:ASN:ND2	1:A:709:ASP:O	2.50	0.45
1:A:1470:ARG:NH2	1:A:1471:ALA:O	2.35	0.45
1:A:1808:ARG:HH11	1:A:1853:ILE:HG22	1.81	0.45
1:A:2858:GLN:N	1:A:2859:PRO:HD3	2.31	0.45
1:A:3442:PHE:CZ	1:A:3514:LEU:HD22	2.52	0.45
1:A:4071:ILE:HA	1:A:4074:SER:HB3	1.98	0.45
2:E:18:ARG:NH1	2:E:51:GLY:HA3	2.29	0.45
1:B:483:MET:O	1:B:487:VAL:HG23	2.17	0.45
1:B:1125:ASN:H	1:B:1128:ARG:NH1	2.14	0.45
1:B:1521:ASP:HB3	1:B:1524:THR:OG1	2.16	0.45
1:B:1690:ASP:O	1:B:1693:GLN:HB2	2.16	0.45
1:B:2248:ARG:HD3	1:B:2286:LEU:HD21	1.99	0.45
1:B:4020:GLN:O	1:B:4024:VAL:HG23	2.17	0.45
1:B:4701:TRP:CZ2	1:B:4781:GLY:HA3	2.52	0.45
1:D:103:TYR:CE1	1:D:163:VAL:HA	2.52	0.45
1:D:262:LEU:HD21	1:D:280:LEU:HD22	1.98	0.45
1:D:445:LEU:O	1:D:449:ILE:HD12	2.16	0.45
1:D:1470:ARG:NH2	1:D:1471:ALA:O	2.35	0.45
1:D:1607:ARG:HG2	1:D:1608:MET:N	2.32	0.45
1:D:1658:ASP:N	1:D:1658:ASP:OD1	2.48	0.45
1:D:1690:ASP:HB3	1:D:1693:GLN:HG3	1.98	0.45
1:D:1982:ARG:HH21	1:D:1985:THR:HG21	1.82	0.45
1:D:2781:VAL:HB	1:D:2789:PRO:HG3	1.98	0.45
1:D:3139:VAL:O	1:D:3143:LEU:HD23	2.16	0.45
1:D:3213:TYR:CD2	1:D:3302:PRO:HG2	2.51	0.45
1:D:4020:GLN:O	1:D:4024:VAL:HG23	2.17	0.45
1:D:4701:TRP:CZ2	1:D:4781:GLY:HA3	2.52	0.45
1:D:4711:PHE:HB3	1:D:4712:PRO:CD	2.44	0.45
1:C:705:ASN:ND2	1:C:709:ASP:O	2.50	0.45
1:C:1607:ARG:HG2	1:C:1608:MET:N	2.32	0.45
1:C:2858:GLN:N	1:C:2859:PRO:HD3	2.31	0.45
1:C:3308:THR:H	1:C:3311:HIS:HB2	1.81	0.45
1:C:4020:GLN:O	1:C:4024:VAL:HG23	2.17	0.45
1:A:717:ASP:HB2	1:A:722:TRP:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:895:PRO:HD2	1:A:903:LEU:HD23	1.99	0.45
1:A:1297:PHE:CD2	1:A:1522:LEU:HA	2.51	0.45
1:A:1478:ASP:HB3	1:A:1482:ASN:HB3	1.99	0.45
1:A:1607:ARG:HG2	1:A:1608:MET:N	2.32	0.45
1:A:1690:ASP:HB3	1:A:1693:GLN:CG	2.47	0.45
1:A:2355:ARG:O	1:A:2358:ILE:HG12	2.17	0.45
1:A:4003:LEU:HD23	1:A:4009:GLN:HB3	1.99	0.45
1:A:4085:ARG:NH2	1:A:4122:MET:HE2	2.31	0.45
1:A:4189:ARG:NH2	1:A:5032:TYR:OH	2.46	0.45
1:A:4701:TRP:CZ2	1:A:4781:GLY:HA3	2.52	0.45
1:A:4888:TYR:CD1	1:B:4914:VAL:HG13	2.52	0.45
1:B:132:ALA:HA	1:B:193:ALA:O	2.17	0.45
1:B:1260:MET:HG3	1:B:1260:MET:O	2.16	0.45
1:B:1294:PRO:HB3	1:B:1549:PHE:CE1	2.49	0.45
1:B:2284:ASN:ND2	1:B:3856:LEU:HD23	2.32	0.45
1:B:2355:ARG:O	1:B:2358:ILE:HG12	2.17	0.45
1:B:2434:GLY:O	1:B:2508:ARG:HG2	2.17	0.45
1:B:2500:ALA:HB2	1:B:2553:TYR:CD1	2.49	0.45
1:B:2563:THR:HG22	1:B:2606:CYS:HA	1.99	0.45
1:B:2609:ALA:O	1:B:2612[A]:ARG:NH1	2.48	0.45
1:B:2679:PHE:O	1:B:2683:PHE:HB3	2.17	0.45
1:B:3226:GLU:O	1:B:3227:ARG:HG2	2.17	0.45
1:B:3459:VAL:HG13	1:B:3464:ILE:HG13	1.99	0.45
1:B:3716:LEU:HD13	1:B:3793:MET:HG3	1.97	0.45
1:B:4003:LEU:HD23	1:B:4009:GLN:HB3	1.99	0.45
1:B:4138:ASP:O	1:B:4142:ASN:ND2	2.37	0.45
1:B:4849:TYR:O	1:B:4853:VAL:HG23	2.17	0.45
1:D:683:ARG:HB2	1:D:782:SER:O	2.17	0.45
1:D:717:ASP:HB3	1:D:720:HIS:H	1.81	0.45
1:D:1128:ARG:HD2	1:D:1130:GLN:O	2.17	0.45
1:D:1450:VAL:HB	1:D:1516:ILE:HD13	1.98	0.45
1:D:1629:GLN:NE2	1:D:1631:GLN:HB3	2.31	0.45
1:D:4866:SER:OG	1:D:4868:ASP:OD1	2.31	0.45
1:C:103:TYR:CE1	1:C:163:VAL:HA	2.52	0.45
1:C:418:LEU:HD13	1:C:493:ARG:HB2	1.98	0.45
1:C:986:ASP:HA	1:C:1039:LEU:HD13	1.99	0.45
1:C:1690:ASP:O	1:C:1693:GLN:HB2	2.16	0.45
1:C:2138:LEU:HD13	1:C:3658:LYS:HG3	1.99	0.45
1:C:2248:ARG:HD3	1:C:2286:LEU:HD21	1.99	0.45
1:C:2355:ARG:O	1:C:2358:ILE:HG12	2.17	0.45
1:C:2781:VAL:HB	1:C:2789:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3154:ASP:HA	1:C:3202:PRO:HB3	1.98	0.45
1:C:3283:ARG:HH12	1:C:3287:ARG:NH2	2.15	0.45
1:C:4700:GLN:HA	1:C:4703:ARG:HG3	1.99	0.45
1:A:103:TYR:CE1	1:A:163:VAL:HA	2.52	0.45
1:A:155:LYS:NZ	1:D:225:GLY:HA2	2.32	0.45
1:A:2248:ARG:HD3	1:A:2286:LEU:HD21	1.99	0.45
1:A:2283:ASN:ND2	1:A:2286:LEU:HG	2.31	0.45
1:A:4189:ARG:HB3	1:A:5031:GLN:HE22	1.81	0.45
2:F:18:ARG:NH1	2:F:51:GLY:HA3	2.29	0.45
1:B:683:ARG:HB2	1:B:782:SER:O	2.17	0.45
1:B:1607:ARG:HG2	1:B:1608:MET:N	2.32	0.45
1:B:2268[A]:GLN:H	1:B:2268[A]:GLN:HG3	1.51	0.45
1:B:3546:ASP:O	1:B:3549:VAL:HG22	2.17	0.45
1:B:3930:ILE:HG22	1:B:3995:VAL:HG11	1.99	0.45
1:B:4067:LYS:HB3	1:B:4103:PHE:HZ	1.80	0.45
1:B:4231:MET:CE	1:B:4231:MET:HA	2.47	0.45
1:D:213:TYR:HB3	1:D:273:HIS:CD2	2.52	0.45
1:D:743:VAL:HG21	1:D:801:LYS:HE2	1.99	0.45
1:D:1008:SER:CB	1:D:1017:ARG:HB3	2.46	0.45
1:D:1448:VAL:HG22	1:D:1554:VAL:HG23	1.99	0.45
1:D:3758:MET:HB3	1:D:3762:ARG:HH12	1.80	0.45
1:D:4148:THR:HG22	1:D:4152:GLU:OE2	2.16	0.45
1:D:4904:PRO:HG3	1:D:4913:ARG:NH1	2.32	0.45
1:C:213:TYR:HA	1:C:339:ILE:O	2.17	0.45
1:C:445:LEU:O	1:C:449:ILE:HD12	2.16	0.45
1:C:1008:SER:CB	1:C:1017:ARG:HB3	2.46	0.45
1:C:2475:GLN:H	1:C:2475:GLN:CD	2.25	0.45
1:C:2679:PHE:O	1:C:2683:PHE:HB3	2.17	0.45
1:C:4849:TYR:O	1:C:4853:VAL:HG23	2.17	0.45
1:A:221:ARG:HB2	1:A:391:THR:OG1	2.17	0.45
1:A:232:THR:CG2	1:A:257:ARG:HE	2.29	0.45
1:A:262:LEU:HD21	1:A:280:LEU:HD22	1.98	0.45
1:A:1257:VAL:HG22	1:A:1272:LEU:HD12	1.99	0.45
1:A:1452:TRP:HE1	1:A:1518:CYS:HB3	1.82	0.45
1:A:2237:CYS:O	1:A:2240:CYS:HB2	2.16	0.45
1:A:2563:THR:HG22	1:A:2606:CYS:HA	1.98	0.45
1:A:2719:TYR:HE2	1:A:2953:LYS:HA	1.82	0.45
1:A:3459:VAL:HG13	1:A:3464:ILE:HG13	1.99	0.45
1:A:4711:PHE:HB3	1:A:4712:PRO:CD	2.44	0.45
1:A:4998:LYS:NZ	1:A:5002:GLU:O	2.50	0.45
1:B:348:VAL:HG23	1:B:388:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3283:ARG:HH12	1:B:3287:ARG:NH2	2.15	0.45
1:D:1130:GLN:NE2	1:D:1136:SER:HB2	2.31	0.45
1:D:1131:ARG:HD3	1:D:1139:PHE:HB2	1.99	0.45
1:D:1690:ASP:HB3	1:D:1693:GLN:CD	2.42	0.45
1:D:2017:ASP:HB2	1:D:2020:ASP:HB3	1.99	0.45
1:D:2355:ARG:O	1:D:2358:ILE:HG12	2.17	0.45
1:D:3036:LYS:HD2	1:D:3076:ASP:N	2.32	0.45
1:D:3226:GLU:O	1:D:3227:ARG:HG2	2.17	0.45
1:D:3604:TYR:HD2	1:D:3608:GLN:HE22	1.63	0.45
1:D:4694:ASP:HA	1:D:4700:GLN:HE22	1.82	0.45
1:C:822:ARG:HE	1:C:823:LEU:H	1.65	0.45
1:C:883:ALA:HA	1:C:886:ARG:HG3	2.00	0.45
1:C:1690:ASP:HB3	1:C:1693:GLN:CD	2.42	0.45
1:C:2251:PHE:CG	1:C:2286:LEU:HD22	2.52	0.45
1:C:2802:LYS:HD3	1:C:2802:LYS:HA	1.67	0.45
1:C:3015:LEU:O	1:C:3019:SER:OG	2.30	0.45
1:C:3139:VAL:O	1:C:3143:LEU:HD23	2.16	0.45
1:C:4904:PRO:HG3	1:C:4913:ARG:NH1	2.32	0.45
1:A:284:HIS:HB3	1:A:287:THR:OG1	2.17	0.44
1:A:284:HIS:HB3	1:A:287:THR:HG1	1.82	0.44
1:A:830:ARG:NH1	1:A:832:GLU:HB2	2.30	0.44
1:A:1131:ARG:HD3	1:A:1139:PHE:HB2	1.99	0.44
1:A:1690:ASP:HB3	1:A:1693:GLN:HG3	1.98	0.44
1:A:2867:LEU:HD22	1:A:2928:LYS:HZ1	1.82	0.44
1:A:3226:GLU:O	1:A:3227:ARG:HG2	2.17	0.44
1:A:4904:PRO:HG3	1:A:4913:ARG:NH1	2.32	0.44
2:E:75:THR:HG23	2:E:98:VAL:HG22	1.98	0.44
2:F:25:HIS:O	2:F:102:GLU:HB2	2.17	0.44
2:F:75:THR:HG23	2:F:98:VAL:HG22	1.98	0.44
1:B:213:TYR:HB3	1:B:273:HIS:CD2	2.52	0.44
1:B:537:CYS:SG	1:B:570:GLU:HB3	2.56	0.44
1:B:683:ARG:HH12	1:B:717:ASP:HB2	1.82	0.44
1:B:1654:SER:HB3	1:B:1704:PRO:HD3	1.98	0.44
1:B:2138:LEU:HD13	1:B:3658:LYS:HG3	1.99	0.44
1:B:2223:ILE:HD12	1:B:2263:ILE:HG22	2.00	0.44
1:B:3391:GLU:C	1:B:3395:ARG:HE	2.25	0.44
1:D:221:ARG:HB2	1:D:391:THR:OG1	2.17	0.44
1:D:526:LEU:HD12	1:D:526:LEU:HA	1.87	0.44
1:D:573:GLU:O	1:D:577:ILE:HG23	2.18	0.44
1:D:1452:TRP:HE1	1:D:1518:CYS:HB3	1.82	0.44
1:D:2563:THR:HG22	1:D:2606:CYS:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2929:PHE:CE1	1:D:2932:MET:HE2	2.52	0.44
1:D:3442:PHE:CZ	1:D:3514:LEU:HD22	2.52	0.44
1:D:4087:LEU:CD2	1:D:4124:ASN:HD22	2.31	0.44
1:D:4134:GLU:HB3	1:D:4135:PRO:HD3	1.99	0.44
1:C:23:GLN:NE2	1:C:34:LYS:HD2	2.32	0.44
1:C:203:ASN:HA	1:C:204:PRO:HD3	1.83	0.44
1:C:232:THR:CG2	1:C:257:ARG:HE	2.29	0.44
1:C:483:MET:O	1:C:487:VAL:HG23	2.17	0.44
1:C:1257:VAL:HG22	1:C:1272:LEU:HD12	1.99	0.44
1:C:1452:TRP:HE1	1:C:1518:CYS:HB3	1.82	0.44
1:C:1654:SER:HB3	1:C:1704:PRO:HD3	1.99	0.44
1:C:2017:ASP:HB2	1:C:2020:ASP:HB3	1.99	0.44
1:C:2088:GLU:N	1:C:2092:GLN:OE1	2.50	0.44
1:C:2690:LYS:HD3	1:C:2691:TYR:N	2.32	0.44
1:C:4232:GLU:OE2	1:C:5017:ARG:NH1	2.42	0.44
1:A:719:LEU:HD11	2:E:7:ILE:HA	1.99	0.44
1:A:743:VAL:HG21	1:A:801:LYS:HE2	1.99	0.44
1:A:1256:GLU:HB2	1:A:1275:ARG:HG3	1.99	0.44
1:A:1568:LYS:HG2	1:A:1589:PRO:HG3	1.99	0.44
1:A:2088:GLU:N	1:A:2092:GLN:OE1	2.50	0.44
1:A:2190:VAL:HG13	1:A:2194:HIS:ND1	2.31	0.44
1:A:2239:PHE:CD2	1:A:2250:MET:HE3	2.53	0.44
1:A:2369[B]:ARG:HA	1:A:2369[B]:ARG:HE	1.83	0.44
1:A:2679:PHE:O	1:A:2683:PHE:HB3	2.17	0.44
1:A:3590:GLU:HA	1:A:3593:VAL:HG22	1.99	0.44
1:A:4045:VAL:O	1:A:4049:VAL:HG23	2.18	0.44
1:A:4995:LEU:HD21	1:A:5007:GLU:HB3	1.99	0.44
2:E:25:HIS:O	2:E:102:GLU:HB2	2.17	0.44
1:B:140:ASP:OD2	1:B:142:THR:OG1	2.31	0.44
1:B:717:ASP:HB2	1:B:722:TRP:CD1	2.52	0.44
1:B:1690:ASP:HB3	1:B:1693:GLN:CG	2.47	0.44
1:B:3416:VAL:HG22	1:B:3423:TRP:HZ3	1.82	0.44
1:B:3533:ILE:O	1:B:3537:LYS:HG2	2.18	0.44
1:B:3540:TYR:O	1:B:3543:LYS:HD2	2.16	0.44
1:B:4738:ALA:HA	1:B:4743:MET:HG2	1.98	0.44
1:D:27:THR:OG1	1:D:32:GLN:OE1	2.28	0.44
1:D:495:ASN:OD1	1:D:523:TYR:OH	2.30	0.44
1:D:2369[B]:ARG:HA	1:D:2369[B]:ARG:HE	1.83	0.44
1:D:2679:PHE:O	1:D:2683:PHE:HB3	2.17	0.44
1:D:4189:ARG:HB3	1:D:5031:GLN:HE22	1.81	0.44
1:D:4849:TYR:O	1:D:4853:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:573:GLU:O	1:C:577:ILE:HG23	2.18	0.44
1:C:1100:MET:HE2	1:C:1100:MET:HB2	1.79	0.44
1:C:1125:ASN:H	1:C:1128:ARG:NH1	2.14	0.44
1:C:1128:ARG:HD2	1:C:1130:GLN:O	2.17	0.44
1:C:1286:MET:HB3	1:C:1462:MET:HA	1.99	0.44
1:C:1490:SER:OG	1:C:1492:CYS:O	2.34	0.44
1:C:1575:LEU:HG	1:C:1579:MET:SD	2.57	0.44
1:C:2960:LEU:HD12	1:C:3042:LEU:HD11	1.99	0.44
1:C:3775:ALA:O	1:C:3779:VAL:HG23	2.17	0.44
1:C:4003:LEU:HD23	1:C:4009:GLN:HB3	1.99	0.44
1:C:4085:ARG:NH2	1:C:4122:MET:HE2	2.31	0.44
1:C:4694:ASP:HA	1:C:4700:GLN:HE22	1.82	0.44
1:C:4701:TRP:CZ2	1:C:4781:GLY:HA3	2.52	0.44
1:C:4866:SER:OG	1:C:4868:ASP:OD1	2.31	0.44
1:A:213:TYR:HB3	1:A:273:HIS:CD2	2.52	0.44
1:A:877:ASN:HA	1:A:880:GLU:HG2	2.00	0.44
1:A:1448:VAL:HG22	1:A:1554:VAL:HG23	1.99	0.44
1:A:1450:VAL:HB	1:A:1516:ILE:HD13	1.98	0.44
1:A:1943:LEU:HD13	1:A:2101:MET:HE2	1.99	0.44
1:A:2512:ILE:HD13	1:A:2565:CYS:SG	2.58	0.44
1:A:2690:LYS:HD3	1:A:2691:TYR:N	2.32	0.44
1:A:3036:LYS:HD3	1:A:3039:ILE:HD11	2.00	0.44
1:A:3875:MET:HB3	1:A:3878:ASP:HB3	1.99	0.44
1:A:4694:ASP:HA	1:A:4700:GLN:HE22	1.82	0.44
1:A:4849:TYR:O	1:A:4853:VAL:HG23	2.17	0.44
1:B:213:TYR:HA	1:B:339:ILE:O	2.17	0.44
1:B:284:HIS:HB3	1:B:287:THR:OG1	2.17	0.44
1:B:877:ASN:HA	1:B:880:GLU:HG2	2.00	0.44
1:B:1641:ILE:O	1:B:1645:ASN:N	2.51	0.44
1:B:2088:GLU:N	1:B:2092:GLN:OE1	2.50	0.44
1:B:2369[B]:ARG:HA	1:B:2369[B]:ARG:HE	1.83	0.44
1:B:2960:LEU:HD12	1:B:3042:LEU:HD11	1.99	0.44
1:B:3873:LYS:HA	1:B:3873:LYS:HD3	1.71	0.44
1:D:20:VAL:HG12	1:D:204:PRO:HA	2.00	0.44
1:D:1496:TRP:HB3	1:D:1499:ASP:OD2	2.18	0.44
1:D:1575:LEU:HG	1:D:1579:MET:SD	2.57	0.44
1:D:2024:PRO:O	1:D:2027:ILE:HG22	2.16	0.44
1:D:2251:PHE:CG	1:D:2286:LEU:HD22	2.52	0.44
1:D:3199:ALA:O	1:D:3283:ARG:NE	2.49	0.44
1:D:4003:LEU:HD23	1:D:4009:GLN:HB3	1.99	0.44
1:D:4231:MET:HA	1:D:4231:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1496:TRP:HB3	1:C:1499:ASP:OD2	2.18	0.44
1:C:1690:ASP:HB3	1:C:1693:GLN:CG	2.47	0.44
1:C:2673:HIS:CD2	1:C:2909:ASP:HB2	2.53	0.44
1:C:3226:GLU:O	1:C:3227:ARG:HG2	2.17	0.44
1:A:223:PHE:CE2	1:A:230:CYS:HB2	2.51	0.44
1:A:790:ARG:NH1	1:A:1624:LEU:O	2.47	0.44
1:A:1128:ARG:HD2	1:A:1130:GLN:O	2.17	0.44
1:A:2369[A]:ARG:HE	1:A:2369[A]:ARG:HB2	1.69	0.44
1:A:2805:TYR:O	1:A:2809:ILE:HG12	2.18	0.44
1:A:3069:HIS:CE1	1:A:3142:THR:HG1	2.25	0.44
1:A:3695:PRO:HB3	1:A:3699:HIS:HB3	1.98	0.44
2:E:11:ASP:OD1	2:E:12:GLY:N	2.48	0.44
2:G:25:HIS:O	2:G:102:GLU:HB2	2.17	0.44
1:B:1452:TRP:HE1	1:B:1518:CYS:HB3	1.82	0.44
1:B:2239:PHE:CD2	1:B:2250:MET:HE3	2.53	0.44
1:B:2673:HIS:CD2	1:B:2909:ASP:HB2	2.53	0.44
1:B:3695:PRO:HB3	1:B:3699:HIS:HB3	1.98	0.44
1:B:3775:ALA:O	1:B:3779:VAL:HG23	2.17	0.44
1:B:4694:ASP:HA	1:B:4700:GLN:HE22	1.82	0.44
1:B:4995:LEU:HD21	1:B:5007:GLU:HB3	1.99	0.44
1:D:213:TYR:HA	1:D:339:ILE:O	2.17	0.44
1:D:1654:SER:HB3	1:D:1704:PRO:HD3	1.98	0.44
1:D:1869:GLU:HA	1:D:1872:THR:HG23	2.00	0.44
1:D:2233:CYS:HB3	1:D:2237:CYS:HB2	1.72	0.44
1:D:2676:ARG:O	1:D:2680:TRP:HD1	2.00	0.44
1:D:2690:LYS:HD3	1:D:2691:TYR:N	2.32	0.44
1:D:2757:LYS:HE3	1:D:2757:LYS:HB3	1.84	0.44
1:D:3391:GLU:C	1:D:3395:ARG:HE	2.25	0.44
1:D:3513:THR:HA	1:D:3516:LYS:HZ2	1.83	0.44
1:D:3955:MET:HE1	1:D:4016:LEU:HA	1.99	0.44
1:C:107:ILE:N	1:C:148:TRP:O	2.26	0.44
1:C:213:TYR:HB3	1:C:273:HIS:CD2	2.52	0.44
1:C:580:GLU:OE1	1:C:624:ASN:ND2	2.51	0.44
1:C:772:ASN:N	1:C:1470:ARG:HH22	2.09	0.44
1:C:1641:ILE:O	1:C:1645:ASN:N	2.51	0.44
1:C:2563:THR:HG22	1:C:2606:CYS:HA	1.98	0.44
1:C:2716:ASP:OD1	1:C:2716:ASP:N	2.48	0.44
1:C:2719:TYR:HE2	1:C:2953:LYS:HA	1.82	0.44
1:A:580:GLU:OE1	1:A:624:ASN:ND2	2.51	0.44
1:A:1105:ALA:O	1:A:1189:LEU:N	2.47	0.44
1:A:1260:MET:O	1:A:1260:MET:HG3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1496:TRP:HB3	1:A:1499:ASP:OD2	2.18	0.44
1:A:2223:ILE:HD11	1:A:2229:VAL:HG21	1.99	0.44
1:A:2757:LYS:HE3	1:A:2757:LYS:HB3	1.84	0.44
1:A:3546:ASP:O	1:A:3549:VAL:HG22	2.17	0.44
1:A:4231:MET:HA	1:A:4231:MET:CE	2.47	0.44
2:F:25:HIS:HB3	2:F:102:GLU:HB2	1.99	0.44
1:B:498:THR:HA	1:B:553:ARG:HH22	1.83	0.44
1:B:971:ASP:OD2	1:B:974:HIS:HB3	2.16	0.44
1:B:1008:SER:HB2	1:B:1017:ARG:NE	2.33	0.44
1:B:1286:MET:HB3	1:B:1462:MET:HA	1.99	0.44
1:B:2223:ILE:HD11	1:B:2229:VAL:HG21	1.99	0.44
1:B:2858:GLN:N	1:B:2859:PRO:HD3	2.31	0.44
1:B:3445:TRP:HD1	1:B:3451:PHE:HD2	1.66	0.44
1:D:883:ALA:HA	1:D:886:ARG:HG3	1.99	0.44
1:D:895:PRO:HD2	1:D:903:LEU:HD23	1.99	0.44
1:D:1568:LYS:HG2	1:D:1589:PRO:HG3	1.99	0.44
1:D:2464:ASP:OD1	1:D:2465:ASP:N	2.51	0.44
1:D:3316:LEU:O	1:D:3320:LEU:HG	2.17	0.44
1:C:1448:VAL:HG22	1:C:1554:VAL:HG23	1.99	0.44
1:C:1982:ARG:HH21	1:C:1985:THR:HG21	1.82	0.44
1:C:3036:LYS:HD2	1:C:3076:ASP:N	2.32	0.44
1:C:3316:LEU:O	1:C:3320:LEU:HG	2.17	0.44
1:C:3416:VAL:HG22	1:C:3423:TRP:HZ3	1.82	0.44
1:C:3513:THR:HA	1:C:3516:LYS:HZ2	1.83	0.44
1:C:4148:THR:HG22	1:C:4152:GLU:OE2	2.16	0.44
1:C:4158:PRO:HA	1:C:4161:ARG:HB2	2.00	0.44
1:A:918:ARG:O	1:A:922:LEU:HG	2.17	0.44
1:A:1011:GLN:HB2	1:A:1019:PRO:HD2	2.00	0.44
1:A:1037:ASP:O	1:A:1041:GLN:HG2	2.18	0.44
1:A:1490:SER:OG	1:A:1492:CYS:O	2.34	0.44
1:A:1783:VAL:O	2:E:55:VAL:HG13	2.18	0.44
1:A:1982:ARG:HH21	1:A:1985:THR:HG21	1.82	0.44
1:A:2223:ILE:HD12	1:A:2263:ILE:HG22	2.00	0.44
1:A:2638:LYS:HA	1:A:2641:LEU:HD12	2.00	0.44
1:A:3036:LYS:HD2	1:A:3076:ASP:N	2.32	0.44
1:A:3199:ALA:O	1:A:3283:ARG:NE	2.49	0.44
1:B:883:ALA:HA	1:B:886:ARG:HG3	2.00	0.44
1:B:1446:SER:HA	1:B:1496:TRP:NE1	2.33	0.44
1:B:1690:ASP:HB3	1:B:1693:GLN:CD	2.42	0.44
1:B:2929:PHE:CE1	1:B:2932:MET:HE2	2.52	0.44
1:B:4134:GLU:HB3	1:B:4135:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4235:VAL:HG11	1:B:5019:TRP:CH2	2.53	0.44
1:D:348:VAL:HG23	1:D:388:LEU:HD13	1.99	0.44
1:D:1037:ASP:O	1:D:1041:GLN:HG2	2.18	0.44
1:D:2512:ILE:HD13	1:D:2565:CYS:SG	2.58	0.44
1:D:4158:PRO:HA	1:D:4161:ARG:HB2	2.00	0.44
1:C:918:ARG:O	1:C:922:LEU:HG	2.17	0.44
1:C:1008:SER:HB2	1:C:1017:ARG:NE	2.33	0.44
1:C:1011:GLN:HB2	1:C:1019:PRO:HD2	2.00	0.44
1:C:1478:ASP:HB3	1:C:1482:ASN:HB3	1.99	0.44
1:C:2577:ILE:HG13	1:C:2578:MET:N	2.32	0.44
1:C:2761:TYR:HB3	1:C:2929:PHE:CZ	2.51	0.44
1:C:3546:ASP:O	1:C:3549:VAL:HG22	2.17	0.44
1:C:3930:ILE:HG22	1:C:3995:VAL:HG11	1.99	0.44
1:C:4165:GLU:HA	1:C:4168:GLU:HG2	2.00	0.44
1:C:4738:ALA:HA	1:C:4743:MET:HG2	1.99	0.44
1:C:4998:LYS:NZ	1:C:5002:GLU:O	2.50	0.44
1:A:20:VAL:HG12	1:A:204:PRO:HA	2.00	0.44
1:A:23:GLN:NE2	1:A:34:LYS:HD2	2.32	0.44
1:A:1008:SER:HB2	1:A:1017:ARG:NE	2.33	0.44
1:A:1252:HIS:CE1	1:A:1255:TYR:HD2	2.29	0.44
1:A:1641:ILE:O	1:A:1645:ASN:N	2.51	0.44
1:A:2653:LYS:HB3	1:A:2661:TRP:HE1	1.82	0.44
1:A:2673:HIS:CD2	1:A:2909:ASP:HB2	2.53	0.44
1:A:2879:ALA:HB2	1:A:2923:ALA:HB2	2.00	0.44
1:A:2929:PHE:CE1	1:A:2932:MET:HE2	2.52	0.44
1:A:3533:ILE:O	1:A:3537:LYS:HG2	2.18	0.44
1:A:3930:ILE:HG22	1:A:3995:VAL:HG11	1.99	0.44
1:A:4087:LEU:CD2	1:A:4124:ASN:HD22	2.31	0.44
1:A:4165:GLU:HA	1:A:4168:GLU:HG2	2.00	0.44
1:A:4235:VAL:HG11	1:A:5019:TRP:CH2	2.53	0.44
1:B:571:SER:OG	1:B:574:VAL:HG23	2.18	0.44
1:B:986:ASP:HA	1:B:1039:LEU:HD13	1.99	0.44
1:B:2420:HIS:HA	1:B:2423:MET:HE3	2.00	0.44
1:B:2577:ILE:HG13	1:B:2578:MET:N	2.32	0.44
1:B:2676:ARG:O	1:B:2680:TRP:HD1	2.00	0.44
1:B:2960:LEU:HD22	1:B:3035:GLU:HG3	2.00	0.44
1:B:3033:ASN:O	1:B:3037:GLU:OE1	2.36	0.44
1:B:4904:PRO:HG3	1:B:4913:ARG:NH1	2.32	0.44
1:D:571:SER:OG	1:D:574:VAL:HG23	2.18	0.44
1:D:683:ARG:HH12	1:D:717:ASP:HB2	1.82	0.44
1:D:918:ARG:O	1:D:922:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1256:GLU:HB2	1:D:1275:ARG:HG3	1.99	0.44
1:D:2292:GLU:H	1:D:2292:GLU:CD	2.23	0.44
1:D:2500:ALA:HB2	1:D:2553:TYR:CD1	2.49	0.44
1:D:3036:LYS:HD3	1:D:3039:ILE:HD11	2.00	0.44
1:D:4235:VAL:HG11	1:D:5019:TRP:CH2	2.53	0.44
1:C:955:LEU:HG	1:C:969:PRO:HD3	1.99	0.44
1:C:1866:ILE:HA	1:C:1926:LEU:HD12	2.00	0.44
1:C:1869:GLU:HA	1:C:1872:THR:HG23	2.00	0.44
1:C:2292:GLU:H	1:C:2292:GLU:CD	2.23	0.44
1:C:2369[B]:ARG:HA	1:C:2369[B]:ARG:HE	1.82	0.44
1:C:2464:ASP:OD1	1:C:2465:ASP:N	2.51	0.44
1:C:2512:ILE:HD13	1:C:2565:CYS:SG	2.58	0.44
1:C:2676:ARG:O	1:C:2680:TRP:HD1	2.00	0.44
1:C:3533:ILE:O	1:C:3537:LYS:HG2	2.18	0.44
1:C:3590:GLU:HA	1:C:3593:VAL:HG22	1.99	0.44
1:C:4087:LEU:CD2	1:C:4124:ASN:HD22	2.31	0.44
1:A:114:SER:OG	1:A:116:MET:HB2	2.18	0.44
1:A:683:ARG:HH12	1:A:717:ASP:HB2	1.82	0.44
1:A:1446:SER:HA	1:A:1496:TRP:NE1	2.33	0.44
1:A:1690:ASP:HB3	1:A:1693:GLN:CD	2.42	0.44
1:A:2420:HIS:HA	1:A:2423:MET:HE3	2.00	0.44
1:A:3150:HIS:HB3	1:A:3152:PHE:CE1	2.53	0.44
1:A:3395:ARG:HH11	1:A:3453:ARG:HH22	1.66	0.44
1:A:3416:VAL:HG22	1:A:3423:TRP:HZ3	1.82	0.44
1:A:4158:PRO:HA	1:A:4161:ARG:HB2	2.00	0.44
1:A:4700:GLN:HA	1:A:4703:ARG:HG3	1.99	0.44
1:A:4892:ARG:NH1	1:B:4917:ASP:HB3	2.33	0.44
2:E:25:HIS:HB3	2:E:102:GLU:HB2	1.99	0.44
2:H:25:HIS:HB3	2:H:102:GLU:HB2	1.99	0.44
1:B:705:ASN:ND2	1:B:709:ASP:O	2.50	0.44
1:B:822:ARG:HE	1:B:823:LEU:H	1.65	0.44
1:B:1491:ASN:OD1	1:B:1492:CYS:N	2.51	0.44
1:B:1496:TRP:HB3	1:B:1499:ASP:OD2	2.18	0.44
1:B:1943:LEU:HD13	1:B:2101:MET:HE2	1.99	0.44
1:B:2512:ILE:HD13	1:B:2565:CYS:SG	2.58	0.44
1:B:2653:LYS:HB3	1:B:2661:TRP:HE1	1.82	0.44
1:B:3107:VAL:O	1:B:3111:ARG:HG2	2.18	0.44
1:B:3395:ARG:HH11	1:B:3453:ARG:HH22	1.66	0.44
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.45	0.44
1:B:4165:GLU:HA	1:B:4168:GLU:HG2	2.00	0.44
1:D:803:LEU:HG	1:D:804:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1008:SER:HB2	1:D:1017:ARG:NE	2.33	0.44
1:D:2088:GLU:N	1:D:2092:GLN:OE1	2.50	0.44
1:D:2190:VAL:HG13	1:D:2194:HIS:ND1	2.31	0.44
1:D:3107:VAL:O	1:D:3111:ARG:HG2	2.18	0.44
1:D:3850:GLN:O	1:D:3854:GLU:OE1	2.36	0.44
1:C:348:VAL:HG23	1:C:388:LEU:HD13	1.99	0.44
1:C:426:ARG:NE	1:C:504:ALA:O	2.51	0.44
1:C:571:SER:OG	1:C:574:VAL:HG23	2.18	0.44
1:C:961:MET:HE3	1:C:963:ASN:HB2	2.00	0.44
1:C:2239:PHE:CD2	1:C:2250:MET:HE3	2.53	0.44
1:C:3107:VAL:O	1:C:3111:ARG:HG2	2.18	0.44
1:C:3354:LEU:HD12	1:C:3415:TYR:CD2	2.45	0.44
1:C:3607:GLU:HB3	1:C:3611:HIS:HE1	1.83	0.44
1:C:3721:LEU:HD12	1:C:3721:LEU:HA	1.83	0.44
1:A:1507:GLY:HA3	1:D:2774:ASN:OD1	2.17	0.44
1:A:1658:ASP:N	1:A:1658:ASP:OD1	2.48	0.44
1:A:2794:TYR:HA	1:A:2797:PHE:HB2	2.00	0.44
1:A:2970:SER:O	1:A:2974:ILE:HG12	2.18	0.44
1:A:2971:GLN:HA	1:A:2974:ILE:HG12	2.00	0.44
1:A:3033:ASN:O	1:A:3037:GLU:OE1	2.36	0.44
1:A:3955:MET:HE1	1:A:4016:LEU:HA	1.99	0.44
1:B:20:VAL:HG12	1:B:204:PRO:HA	2.00	0.44
1:B:692:TYR:HD2	1:B:778:PHE:HZ	1.65	0.44
1:B:743:VAL:HG21	1:B:801:LYS:HE2	1.99	0.44
1:B:790:ARG:NH1	1:B:1624:LEU:O	2.47	0.44
1:B:803:LEU:HG	1:B:804:PRO:HD2	2.00	0.44
1:B:955:LEU:HG	1:B:969:PRO:HD3	2.00	0.44
1:B:1257:VAL:HG22	1:B:1272:LEU:HD12	1.99	0.44
1:B:1478:ASP:HB3	1:B:1482:ASN:HB3	1.99	0.44
1:B:1694:LEU:HB3	1:B:1715:LEU:HD12	2.00	0.44
1:B:2698:MET:C	1:B:2701:PRO:HD2	2.43	0.44
1:B:2699:ALA:O	1:B:2702:CYS:HB3	2.18	0.44
1:B:3850:GLN:O	1:B:3854:GLU:OE1	2.36	0.44
1:B:4158:PRO:HA	1:B:4161:ARG:HB2	2.00	0.44
1:B:4865:LYS:HA	1:B:4865:LYS:HD3	1.75	0.44
1:D:1032:LYS:O	1:D:1036:ARG:NE	2.47	0.44
1:D:2239:PHE:CD2	1:D:2250:MET:HE3	2.53	0.44
1:D:3395:ARG:HH11	1:D:3453:ARG:HH22	1.66	0.44
1:D:3533:ILE:O	1:D:3537:LYS:HG2	2.18	0.44
1:D:3590:GLU:HA	1:D:3593:VAL:HG22	1.99	0.44
1:D:3596:VAL:HA	1:D:3599:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3842:LEU:HD22	1:D:3933:PHE:CE2	2.53	0.44
1:D:3875:MET:HB3	1:D:3878:ASP:HB3	1.99	0.44
1:C:315:CYS:SG	1:C:349:GLN:HB3	2.58	0.44
1:C:483:MET:HE2	1:C:483:MET:HB3	1.85	0.44
1:C:1164:LEU:N	1:C:1167:GLU:O	2.46	0.44
1:C:2223:ILE:HD12	1:C:2263:ILE:HG22	2.00	0.44
1:C:3150:HIS:HB3	1:C:3152:PHE:CE1	2.53	0.44
1:C:3596:VAL:HA	1:C:3599:VAL:HG22	2.00	0.44
1:C:3842:LEU:HD22	1:C:3933:PHE:CE2	2.53	0.44
1:C:3875:MET:HB3	1:C:3878:ASP:HB3	1.99	0.44
1:A:573:GLU:O	1:A:577:ILE:HG23	2.18	0.43
1:A:971:ASP:OD2	1:A:974:HIS:HB3	2.16	0.43
1:A:1088:TRP:HA	1:A:1224:GLU:O	2.18	0.43
1:A:1694:LEU:HB3	1:A:1715:LEU:HD12	2.00	0.43
1:A:2392:ARG:O	1:A:2418:LEU:HD12	2.18	0.43
1:A:3107:VAL:O	1:A:3111:ARG:HG2	2.18	0.43
1:A:3391:GLU:C	1:A:3395:ARG:HE	2.25	0.43
1:A:3596:VAL:HA	1:A:3599:VAL:HG22	2.00	0.43
1:A:4127:GLU:OE1	1:A:4131:ARG:NH2	2.45	0.43
1:A:4232:GLU:OE2	1:A:5017:ARG:NH1	2.43	0.43
2:H:25:HIS:O	2:H:102:GLU:HB2	2.17	0.43
2:G:25:HIS:HB3	2:G:102:GLU:HB2	1.99	0.43
1:B:23:GLN:NE2	1:B:34:LYS:HD2	2.32	0.43
1:B:221:ARG:HB2	1:B:391:THR:OG1	2.17	0.43
1:B:470:SER:O	1:B:474:ARG:NE	2.50	0.43
1:B:573:GLU:O	1:B:577:ILE:HG23	2.18	0.43
1:B:590:LEU:HD12	1:B:599:VAL:HG12	2.00	0.43
1:B:895:PRO:HD2	1:B:903:LEU:HD23	1.99	0.43
1:B:1101:ARG:NH1	1:B:1114:GLU:OE2	2.35	0.43
1:B:1448:VAL:HG22	1:B:1554:VAL:HG23	1.99	0.43
1:B:1982:ARG:HH21	1:B:1985:THR:HG21	1.82	0.43
1:B:2690:LYS:HD3	1:B:2691:TYR:N	2.32	0.43
1:B:2970:SER:O	1:B:2974:ILE:HG12	2.18	0.43
1:B:3794:VAL:HG13	1:B:3880:PHE:CE1	2.53	0.43
1:B:4700:GLN:HA	1:B:4703:ARG:HG3	1.99	0.43
1:D:23:GLN:NE2	1:D:34:LYS:HD2	2.32	0.43
1:D:284:HIS:HB3	1:D:287:THR:OG1	2.17	0.43
1:D:1424:PRO:HA	1:D:1427:ILE:HG22	2.00	0.43
1:D:1641:ILE:O	1:D:1645:ASN:N	2.51	0.43
1:D:2638:LYS:HA	1:D:2641:LEU:HD12	2.00	0.43
1:D:2879:ALA:HB2	1:D:2923:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2960:LEU:HD12	1:D:3042:LEU:HD11	1.99	0.43
1:D:3069:HIS:CE1	1:D:3142:THR:HG1	2.25	0.43
1:D:3695:PRO:HB3	1:D:3699:HIS:HB3	1.98	0.43
1:D:4045:VAL:O	1:D:4049:VAL:HG23	2.18	0.43
1:C:150:MET:HB3	1:C:171:LEU:HD12	2.00	0.43
1:C:221:ARG:HB2	1:C:391:THR:OG1	2.17	0.43
1:C:452:PHE:HZ	1:C:478:PHE:HD2	1.66	0.43
1:C:683:ARG:HH12	1:C:717:ASP:HB2	1.82	0.43
1:C:1491:ASN:OD1	1:C:1492:CYS:N	2.51	0.43
1:C:2223:ILE:HD11	1:C:2229:VAL:HG21	1.99	0.43
1:C:2434:GLY:O	1:C:2508:ARG:HG2	2.17	0.43
1:C:3955:MET:HE1	1:C:4016:LEU:HA	1.99	0.43
1:A:457:GLU:HA	1:A:464:LYS:HZ2	1.82	0.43
1:A:571:SER:OG	1:A:574:VAL:HG23	2.18	0.43
1:A:1175:SER:HB2	1:A:1180:ARG:HD3	2.01	0.43
1:A:1449:TRP:HB2	1:A:1553:PHE:HB2	2.00	0.43
1:A:1575:LEU:HG	1:A:1579:MET:SD	2.58	0.43
1:A:2698:MET:C	1:A:2701:PRO:HD2	2.43	0.43
1:A:3081:MET:HE3	1:A:3155:ASP:O	2.18	0.43
1:A:4000:MET:HG2	1:A:4001:MET:HE2	2.01	0.43
1:A:4554:TYR:HA	1:A:4557:ARG:HH21	1.83	0.43
2:E:22:CYS:HB2	2:E:48:PHE:CE1	2.53	0.43
1:B:426:ARG:NE	1:B:504:ALA:O	2.51	0.43
1:B:457:GLU:HA	1:B:464:LYS:HZ2	1.82	0.43
1:B:1011:GLN:HB2	1:B:1019:PRO:HD2	2.00	0.43
1:B:1646:ARG:NH2	1:B:1648:MET:HE1	2.30	0.43
1:B:2144:ILE:HD11	1:B:2194:HIS:CE1	2.53	0.43
1:B:3842:LEU:HB2	1:B:3929:SER:CB	2.40	0.43
1:B:3875:MET:HB3	1:B:3878:ASP:HB3	1.98	0.43
1:D:114:SER:OG	1:D:116:MET:HB2	2.18	0.43
1:D:822:ARG:HE	1:D:823:LEU:H	1.65	0.43
1:D:961:MET:HE3	1:D:963:ASN:HB2	2.00	0.43
1:D:1125:ASN:O	1:D:1128:ARG:NH2	2.52	0.43
1:D:1175:SER:HB2	1:D:1180:ARG:HD3	2.01	0.43
1:D:1286:MET:HB3	1:D:1462:MET:HA	2.00	0.43
1:D:2392:ARG:O	1:D:2418:LEU:HD12	2.18	0.43
1:D:2420:HIS:HA	1:D:2423:MET:HE3	2.00	0.43
1:D:2970:SER:O	1:D:2974:ILE:HG12	2.18	0.43
1:D:3081:MET:HE3	1:D:3155:ASP:O	2.18	0.43
1:D:4000:MET:HG2	1:D:4001:MET:HE2	2.01	0.43
1:C:692:TYR:HD2	1:C:778:PHE:HZ	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1088:TRP:HA	1:C:1224:GLU:O	2.18	0.43
1:C:1443:GLN:NE2	1:C:1561:VAL:HA	2.34	0.43
1:C:1966:VAL:HG21	1:C:3650:CYS:HA	2.00	0.43
1:A:498:THR:HA	1:A:553:ARG:HH22	1.83	0.43
1:A:1286:MET:HB3	1:A:1462:MET:HA	1.99	0.43
1:A:1500:PHE:HB3	1:A:1531:ALA:HB1	2.01	0.43
1:A:1694:LEU:O	1:A:1698:LEU:HG	2.18	0.43
1:A:2415:ARG:HH22	1:A:2417:HIS:HA	1.83	0.43
1:A:2464:ASP:OD1	1:A:2465:ASP:N	2.51	0.43
1:A:2577:ILE:HG13	1:A:2578:MET:N	2.32	0.43
1:A:2584[A]:HIS:NE2	1:A:2625:ARG:HG3	2.34	0.43
1:A:2960:LEU:HD22	1:A:3035:GLU:HG3	2.00	0.43
1:A:4555:LEU:HD21	1:A:4656:LEU:HD22	2.00	0.43
2:F:22:CYS:HB2	2:F:48:PHE:CE1	2.53	0.43
1:B:114:SER:OG	1:B:116:MET:HB2	2.18	0.43
1:B:918:ARG:O	1:B:922:LEU:HG	2.17	0.43
1:B:1256:GLU:HB2	1:B:1275:ARG:HG3	1.99	0.43
1:B:1443:GLN:NE2	1:B:1561:VAL:HA	2.33	0.43
1:B:2805:TYR:O	1:B:2809:ILE:HG12	2.18	0.43
1:B:3522:LEU:HD13	1:C:1220:GLN:O	2.17	0.43
1:B:3596:VAL:HA	1:B:3599:VAL:HG22	2.00	0.43
1:B:4045:VAL:O	1:B:4049:VAL:HG23	2.18	0.43
1:D:426:ARG:NE	1:D:504:ALA:O	2.51	0.43
1:D:580:GLU:OE1	1:D:624:ASN:ND2	2.51	0.43
1:D:705:ASN:ND2	1:D:709:ASP:O	2.50	0.43
1:D:1088:TRP:HB2	1:D:1153:ILE:CG2	2.49	0.43
1:D:1164:LEU:N	1:D:1167:GLU:O	2.46	0.43
1:D:1435:TYR:HB2	1:D:1575:LEU:HD22	2.00	0.43
1:D:1500:PHE:HB3	1:D:1531:ALA:HB1	2.01	0.43
1:D:2415:ARG:HH22	1:D:2417:HIS:HA	1.83	0.43
1:D:2654:TYR:HD1	1:D:2661:TRP:H	1.66	0.43
1:D:2673:HIS:CD2	1:D:2909:ASP:HB2	2.53	0.43
1:C:260:TRP:CE2	1:C:284:HIS:HD2	2.37	0.43
1:C:648:ILE:HD11	1:C:779:PRO:HG2	2.01	0.43
1:C:1931:LEU:HD12	1:C:1935:VAL:HG11	2.00	0.43
1:C:2205:GLU:O	1:C:2209:GLU:HG2	2.18	0.43
1:C:2392:ARG:O	1:C:2418:LEU:HD12	2.18	0.43
1:C:2415:ARG:HH22	1:C:2417:HIS:HA	1.83	0.43
1:C:2420:HIS:HA	1:C:2423:MET:HE3	2.00	0.43
1:C:2698:MET:C	1:C:2701:PRO:HD2	2.43	0.43
1:C:2699:ALA:O	1:C:2702:CYS:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3617:LYS:N	1:C:3617:LYS:HD2	2.34	0.43
1:C:3850:GLN:O	1:C:3854:GLU:OE1	2.36	0.43
1:C:4847:VAL:O	1:C:4851:TYR:HD1	2.01	0.43
1:A:315:CYS:SG	1:A:349:GLN:HB3	2.58	0.43
1:A:598:LYS:O	1:A:602:VAL:HG23	2.18	0.43
1:A:961:MET:HE3	1:A:963:ASN:HB2	2.00	0.43
1:A:1167:GLU:HB3	1:D:3477:LYS:NZ	2.34	0.43
1:A:2950:SER:O	1:A:2954:ARG:HG3	2.18	0.43
1:A:3607:GLU:HB3	1:A:3611:HIS:HE1	1.83	0.43
1:A:4158:PRO:HG2	1:A:4159:ARG:NH1	2.34	0.43
1:A:4847:VAL:O	1:A:4851:TYR:HD1	2.01	0.43
2:G:66:MET:HE2	2:G:66:MET:HB2	1.93	0.43
2:F:73:LYS:HZ2	2:F:99:PHE:C	2.26	0.43
1:B:20:VAL:CB	1:B:202:MET:HE2	2.49	0.43
1:B:260:TRP:CE2	1:B:284:HIS:HD2	2.37	0.43
1:B:452:PHE:HZ	1:B:478:PHE:HD2	1.65	0.43
1:B:924:MET:O	1:B:928:THR:HG23	2.18	0.43
1:B:1575:LEU:HG	1:B:1579:MET:SD	2.58	0.43
1:B:1601:MET:CE	1:B:1602:PRO:HD2	2.39	0.43
1:B:1866:ILE:HA	1:B:1926:LEU:HD12	2.00	0.43
1:B:2638:LYS:HA	1:B:2641:LEU:HD12	2.00	0.43
1:B:2757:LYS:HB3	1:B:2757:LYS:HE3	1.84	0.43
1:B:3036:LYS:HD3	1:B:3039:ILE:HD11	2.00	0.43
1:D:498:THR:HA	1:D:553:ARG:HH22	1.83	0.43
1:D:692:TYR:HD2	1:D:778:PHE:HZ	1.65	0.43
1:D:955:LEU:HG	1:D:969:PRO:HD3	2.00	0.43
1:D:1011:GLN:HB2	1:D:1019:PRO:HD2	2.00	0.43
1:D:1067:SER:O	1:D:1071:ARG:HB3	2.18	0.43
1:D:1491:ASN:OD1	1:D:1492:CYS:N	2.51	0.43
1:D:2719:TYR:HE2	1:D:2953:LYS:HA	1.82	0.43
1:D:2950:SER:O	1:D:2954:ARG:HG3	2.18	0.43
1:D:3222:LYS:O	1:D:3227:ARG:NH2	2.52	0.43
1:D:3805:LEU:HB3	1:D:3890:LEU:HB3	2.00	0.43
1:D:4165:GLU:HA	1:D:4168:GLU:HG2	2.00	0.43
1:C:114:SER:OG	1:C:116:MET:HB2	2.18	0.43
1:C:590:LEU:HD12	1:C:599:VAL:HG12	2.00	0.43
1:C:598:LYS:O	1:C:602:VAL:HG23	2.18	0.43
1:C:920:TYR:O	1:C:923:GLN:HG3	2.19	0.43
1:C:1237:TRP:CZ2	1:C:1652:GLU:HA	2.54	0.43
1:C:1500:PHE:HB3	1:C:1531:ALA:HB1	2.00	0.43
1:C:1568:LYS:HG2	1:C:1589:PRO:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1943:LEU:HD13	1:C:2101:MET:HE2	1.99	0.43
1:C:2653:LYS:HB3	1:C:2661:TRP:HE1	1.82	0.43
1:C:2805:TYR:O	1:C:2809:ILE:HG12	2.18	0.43
1:C:2879:ALA:HB2	1:C:2923:ALA:HB2	2.00	0.43
1:C:2960:LEU:HD22	1:C:3035:GLU:HG3	1.99	0.43
1:C:4134:GLU:HB3	1:C:4135:PRO:HD3	1.99	0.43
1:C:4697:VAL:HG13	1:C:4698:LYS:HD3	2.01	0.43
1:A:260:TRP:CE2	1:A:284:HIS:HD2	2.37	0.43
1:A:590:LEU:HD12	1:A:599:VAL:HG12	2.00	0.43
1:A:692:TYR:HD2	1:A:778:PHE:HZ	1.65	0.43
1:A:803:LEU:HG	1:A:804:PRO:HD2	2.00	0.43
1:A:883:ALA:HA	1:A:886:ARG:HG3	2.00	0.43
1:A:1424:PRO:HA	1:A:1427:ILE:HG22	2.00	0.43
1:A:2251:PHE:CG	1:A:2286:LEU:HD22	2.52	0.43
1:A:2876:GLU:C	1:A:2876:GLU:CD	2.87	0.43
1:A:3143:LEU:HD13	1:A:3146:HIS:CE1	2.47	0.43
1:A:3613:TYR:O	1:A:3617:LYS:HD3	2.18	0.43
1:A:3699:HIS:HB2	1:A:3773:ARG:HG3	2.01	0.43
1:A:3775:ALA:O	1:A:3779:VAL:HG23	2.17	0.43
1:A:3842:LEU:HD22	1:A:3933:PHE:CE2	2.53	0.43
1:B:315:CYS:SG	1:B:349:GLN:HB3	2.58	0.43
1:B:598:LYS:O	1:B:602:VAL:HG23	2.18	0.43
1:B:648:ILE:HD11	1:B:779:PRO:HG2	2.01	0.43
1:B:2271:THR:HG23	1:B:2274:ASP:N	2.27	0.43
1:B:2417:HIS:HB2	1:B:2491:SER:O	2.19	0.43
1:B:2584[A]:HIS:NE2	1:B:2625:ARG:HG3	2.34	0.43
1:B:3036:LYS:HD2	1:B:3076:ASP:N	2.32	0.43
1:B:3081:MET:HE3	1:B:3155:ASP:O	2.18	0.43
1:B:3316:LEU:O	1:B:3320:LEU:HG	2.18	0.43
1:B:3699:HIS:HB2	1:B:3773:ARG:HG3	2.01	0.43
1:B:3805:LEU:HB3	1:B:3890:LEU:HB3	2.00	0.43
1:B:3955:MET:HE1	1:B:4016:LEU:HA	1.99	0.43
1:B:4207:MET:HG3	1:B:4209:GLN:OE1	2.19	0.43
1:B:4554:TYR:HA	1:B:4557:ARG:HH21	1.83	0.43
1:D:103:TYR:N	1:D:161:GLU:O	2.45	0.43
1:D:1088:TRP:HA	1:D:1224:GLU:O	2.18	0.43
1:D:1449:TRP:HB2	1:D:1553:PHE:HB2	2.00	0.43
1:D:1694:LEU:HB3	1:D:1715:LEU:HD12	2.00	0.43
1:D:1866:ILE:HA	1:D:1926:LEU:HD12	1.99	0.43
1:D:1970:GLN:NE2	1:D:3641:LEU:O	2.34	0.43
1:D:2268[A]:GLN:H	1:D:2268[A]:GLN:HG3	1.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2584[A]:HIS:NE2	1:D:2625:ARG:HG3	2.34	0.43
1:D:2699:ALA:O	1:D:2702:CYS:HB3	2.18	0.43
1:D:2794:TYR:HA	1:D:2797:PHE:HB2	2.00	0.43
1:D:3550:ARG:HH22	1:D:3593:VAL:HG23	1.84	0.43
1:D:4158:PRO:HG2	1:D:4159:ARG:NH1	2.34	0.43
1:C:213:TYR:HA	1:C:340:LYS:HA	2.00	0.43
1:C:498:THR:HA	1:C:553:ARG:HH22	1.83	0.43
1:C:876:GLU:HG2	1:C:918:ARG:HH22	1.83	0.43
1:C:1130:GLN:NE2	1:C:1136:SER:HB2	2.31	0.43
1:C:1294:PRO:HB3	1:C:1549:PHE:CE1	2.49	0.43
1:C:1694:LEU:O	1:C:1698:LEU:HG	2.18	0.43
1:C:1694:LEU:HB3	1:C:1715:LEU:HD12	2.00	0.43
1:C:1708:ARG:O	1:C:1712:TYR:HD1	2.02	0.43
1:C:2654:TYR:HD1	1:C:2661:TRP:H	1.66	0.43
1:C:3550:ARG:HH22	1:C:3593:VAL:HG23	1.84	0.43
1:C:3699:HIS:HB2	1:C:3773:ARG:HG3	2.01	0.43
1:C:3873:LYS:HD3	1:C:3873:LYS:HA	1.71	0.43
1:C:4090:LYS:NZ	1:C:4115:SER:OG	2.48	0.43
1:C:4158:PRO:HG2	1:C:4159:ARG:NH1	2.34	0.43
1:C:4207:MET:HG3	1:C:4209:GLN:OE1	2.19	0.43
1:A:19:GLU:OE1	1:A:205:ILE:HB	2.19	0.43
1:A:452:PHE:HZ	1:A:478:PHE:CD2	2.37	0.43
1:A:452:PHE:HZ	1:A:478:PHE:HD2	1.66	0.43
1:A:924:MET:O	1:A:928:THR:HG23	2.19	0.43
1:A:1101:ARG:NH1	1:A:1114:GLU:OE2	2.35	0.43
1:A:1443:GLN:NE2	1:A:1561:VAL:HA	2.33	0.43
1:A:4134:GLU:HB3	1:A:4135:PRO:HD3	1.99	0.43
2:F:22:CYS:HA	2:F:106:LEU:HD12	2.01	0.43
2:F:42:ARG:NH2	1:B:1780:PRO:O	2.49	0.43
1:B:483:MET:HE2	1:B:483:MET:HB3	1.85	0.43
1:B:803:LEU:HD23	1:B:804:PRO:O	2.18	0.43
1:B:1078:GLU:HG3	1:B:1655:GLU:OE2	2.19	0.43
1:B:1237:TRP:CZ2	1:B:1652:GLU:HA	2.54	0.43
1:B:2464:ASP:OD1	1:B:2465:ASP:N	2.51	0.43
1:B:2867:LEU:HD22	1:B:2928:LYS:NZ	2.34	0.43
1:B:2950:SER:O	1:B:2954:ARG:HG3	2.18	0.43
1:B:3078:ARG:NH1	1:B:3152:PHE:HA	2.34	0.43
1:B:3590:GLU:HA	1:B:3593:VAL:HG22	1.99	0.43
1:B:4087:LEU:CD2	1:B:4124:ASN:HD22	2.31	0.43
1:B:4632:LEU:HD23	1:B:4633:GLU:N	2.34	0.43
1:B:4847:VAL:O	1:B:4851:TYR:HD1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:150:MET:HB3	1:D:171:LEU:HD12	2.00	0.43
1:D:315:CYS:SG	1:D:349:GLN:HB3	2.58	0.43
1:D:452:PHE:HZ	1:D:478:PHE:HD2	1.66	0.43
1:D:877:ASN:HA	1:D:880:GLU:HG2	2.00	0.43
1:D:920:TYR:O	1:D:923:GLN:HG3	2.19	0.43
1:D:1690:ASP:HB3	1:D:1693:GLN:CG	2.47	0.43
1:D:1708:ARG:O	1:D:1712:TYR:HD1	2.01	0.43
1:D:2144:ILE:HD11	1:D:2194:HIS:CE1	2.53	0.43
1:D:2805:TYR:O	1:D:2809:ILE:HG12	2.18	0.43
1:D:3078:ARG:NH1	1:D:3152:PHE:HA	2.34	0.43
1:D:3343:GLN:HA	1:D:3414:ARG:CZ	2.49	0.43
1:D:3628:ARG:O	1:D:3632:VAL:HG13	2.19	0.43
1:D:3991:GLY:HA2	1:D:3994:HIS:CE1	2.54	0.43
1:D:4847:VAL:O	1:D:4851:TYR:HD1	2.01	0.43
1:C:877:ASN:HA	1:C:880:GLU:HG2	2.00	0.43
1:C:1125:ASN:O	1:C:1128:ARG:NH2	2.52	0.43
1:C:2144:ILE:HD11	1:C:2194:HIS:CE1	2.53	0.43
1:C:2584[A]:HIS:NE2	1:C:2625:ARG:HG3	2.34	0.43
1:C:3078:ARG:NH1	1:C:3152:PHE:HA	2.34	0.43
1:C:3343:GLN:HA	1:C:3414:ARG:CZ	2.49	0.43
1:C:4045:VAL:O	1:C:4049:VAL:HG23	2.18	0.43
1:A:106:ALA:HA	1:A:149:THR:HA	2.00	0.43
1:A:457:GLU:HA	1:A:464:LYS:NZ	2.34	0.43
1:A:876:GLU:HG2	1:A:918:ARG:HH22	1.83	0.43
1:A:955:LEU:HG	1:A:969:PRO:HD3	2.00	0.43
1:A:2144:ILE:HD11	1:A:2194:HIS:CE1	2.53	0.43
1:A:2205:GLU:O	1:A:2209:GLU:HG2	2.18	0.43
1:A:2471:SER:HA	1:A:2525:GLY:HA2	2.01	0.43
1:A:3078:ARG:NH1	1:A:3152:PHE:HA	2.34	0.43
1:A:3617:LYS:N	1:A:3617:LYS:HD2	2.34	0.43
1:A:4681:LEU:HD21	1:A:4687:TYR:HD2	1.84	0.43
1:B:580:GLU:OE1	1:B:624:ASN:ND2	2.51	0.43
1:B:920:TYR:O	1:B:923:GLN:HG3	2.19	0.43
1:B:1500:PHE:HB3	1:B:1531:ALA:HB1	2.01	0.43
1:B:1694:LEU:O	1:B:1698:LEU:HG	2.18	0.43
1:B:1755:GLY:O	1:B:1758:ARG:NE	2.49	0.43
1:B:1939:MET:HE3	1:B:1939:MET:HB2	1.83	0.43
1:B:2292:GLU:OE2	1:B:2292:GLU:N	2.34	0.43
1:B:2392:ARG:O	1:B:2418:LEU:HD12	2.18	0.43
1:B:2517:PHE:HA	1:B:2520:HIS:ND1	2.33	0.43
1:B:2876:GLU:CD	1:B:2876:GLU:C	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2879:ALA:HB2	1:B:2923:ALA:HB2	2.00	0.43
1:B:3143:LEU:HA	1:B:3146:HIS:HD1	1.84	0.43
1:B:3607:GLU:HB3	1:B:3611:HIS:HE1	1.83	0.43
1:D:20:VAL:CB	1:D:202:MET:HE2	2.49	0.43
1:D:359:TYR:HB2	1:D:374:LYS:HZ2	1.84	0.43
1:D:598:LYS:O	1:D:602:VAL:HG23	2.18	0.43
1:D:2577:ILE:HG13	1:D:2578:MET:N	2.32	0.43
1:D:3033:ASN:O	1:D:3037:GLU:OE1	2.36	0.43
1:D:3416:VAL:HG22	1:D:3423:TRP:HZ3	1.82	0.43
1:D:3775:ALA:O	1:D:3779:VAL:HG23	2.17	0.43
1:D:3930:ILE:HG22	1:D:3995:VAL:HG11	1.99	0.43
1:C:20:VAL:HG12	1:C:204:PRO:HA	2.00	0.43
1:C:803:LEU:HD23	1:C:804:PRO:O	2.18	0.43
1:C:895:PRO:HD2	1:C:903:LEU:HD23	1.99	0.43
1:C:1256:GLU:HB2	1:C:1275:ARG:HG3	1.99	0.43
1:C:1424:PRO:HA	1:C:1427:ILE:HG22	2.00	0.43
1:C:2268[B]:GLN:H	1:C:2268[B]:GLN:HG3	1.49	0.43
1:C:2950:SER:O	1:C:2954:ARG:HG3	2.18	0.43
1:C:4673:ARG:O	1:C:4676:GLU:HG3	2.19	0.43
1:A:213:TYR:HA	1:A:340:LYS:HA	2.00	0.43
1:A:226:HIS:CE1	1:B:155:LYS:HB2	2.52	0.43
1:A:1000:ARG:HH12	1:A:1018:ASN:HD22	1.66	0.43
1:A:1491:ASN:OD1	1:A:1492:CYS:N	2.51	0.43
1:A:2654:TYR:HD1	1:A:2661:TRP:H	1.66	0.43
1:A:2716:ASP:OD1	1:A:2716:ASP:N	2.48	0.43
1:A:2763:HIS:HB2	1:A:2802:LYS:HZ3	1.84	0.43
1:A:2978:GLU:CD	1:A:3053:ARG:HD2	2.44	0.43
1:A:3051:ARG:HA	1:A:3131:TYR:CZ	2.54	0.43
1:A:3205:PHE:HE2	1:A:3243:ILE:HG12	1.84	0.43
1:A:3222:LYS:O	1:A:3227:ARG:NH2	2.52	0.43
1:A:3550:ARG:HH22	1:A:3593:VAL:HG23	1.84	0.43
1:A:3601:ALA:HA	1:A:3604:TYR:CE1	2.54	0.43
1:A:4138:ASP:O	1:A:4142:ASN:ND2	2.37	0.43
1:A:4632:LEU:HD23	1:A:4633:GLU:N	2.34	0.43
1:A:4651:THR:OG1	1:A:4803:HIS:NE2	2.36	0.43
1:A:4673:ARG:O	1:A:4676:GLU:HG3	2.19	0.43
1:B:2431:ASP:OD1	1:B:2435:ARG:NE	2.39	0.43
1:B:3842:LEU:HD22	1:B:3933:PHE:CE2	2.53	0.43
1:B:4651:THR:OG1	1:B:4803:HIS:NE2	2.36	0.43
1:B:4697:VAL:HG13	1:B:4698:LYS:HD3	2.01	0.43
1:D:260:TRP:CE2	1:D:284:HIS:HD2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:457:GLU:HA	1:D:464:LYS:NZ	2.34	0.43
1:D:1943:LEU:HD13	1:D:2101:MET:HE2	1.99	0.43
1:D:3699:HIS:HB2	1:D:3773:ARG:HG3	2.01	0.43
1:D:3991:GLY:HA2	1:D:3994:HIS:ND1	2.34	0.43
1:C:830:ARG:NH1	1:C:832:GLU:HB2	2.30	0.43
1:C:1037:ASP:O	1:C:1041:GLN:HG2	2.18	0.43
1:C:1067:SER:O	1:C:1071:ARG:HB3	2.18	0.43
1:C:2867:LEU:HD22	1:C:2928:LYS:NZ	2.34	0.43
1:C:3613:TYR:O	1:C:3617:LYS:HD3	2.18	0.43
1:C:3794:VAL:HG13	1:C:3880:PHE:CE1	2.53	0.43
1:C:4555:LEU:HD21	1:C:4656:LEU:HD22	2.00	0.43
1:A:495:ASN:OD1	1:A:523:TYR:OH	2.30	0.43
1:A:1646:ARG:NH2	1:A:1648:MET:HE1	2.30	0.43
1:A:2517:PHE:HA	1:A:2520:HIS:ND1	2.34	0.43
1:A:2960:LEU:HD12	1:A:3042:LEU:HD11	1.99	0.43
1:A:3059:THR:O	1:A:3062:PRO:HD2	2.19	0.43
1:A:3093:ARG:HA	1:A:3096:PHE:HD2	1.84	0.43
1:A:3114:LYS:HD2	1:A:3116:SER:N	2.25	0.43
1:A:3316:LEU:O	1:A:3320:LEU:HG	2.17	0.43
1:A:3445:TRP:HD1	1:A:3451:PHE:HD2	1.66	0.43
1:A:3805:LEU:HB3	1:A:3890:LEU:HB3	2.00	0.43
2:H:22:CYS:HB2	2:H:48:PHE:CE1	2.53	0.43
2:G:92:PRO:HA	2:G:93:PRO:HD3	1.95	0.43
1:B:772:ASN:N	1:B:1470:ARG:HH22	2.09	0.43
1:B:1869:GLU:HA	1:B:1872:THR:HG23	2.00	0.43
1:B:2251:PHE:CG	1:B:2286:LEU:HD22	2.52	0.43
1:B:3150:HIS:HB3	1:B:3152:PHE:CE1	2.53	0.43
1:B:3991:GLY:HA2	1:B:3994:HIS:ND1	2.34	0.43
1:D:332:GLU:H	1:D:332:GLU:CD	2.27	0.43
1:D:2223:ILE:HD12	1:D:2263:ILE:HG22	2.00	0.43
1:D:2517:PHE:HA	1:D:2520:HIS:ND1	2.33	0.43
1:D:2653:LYS:HB3	1:D:2661:TRP:HE1	1.82	0.43
1:D:3601:ALA:HA	1:D:3604:TYR:CE1	2.54	0.43
1:D:3613:TYR:O	1:D:3617:LYS:HD3	2.18	0.43
1:D:3794:VAL:HG13	1:D:3880:PHE:CE1	2.53	0.43
1:D:4995:LEU:HD21	1:D:5007:GLU:HB3	1.99	0.43
1:C:502:HIS:HA	1:C:505:GLU:OE1	2.19	0.43
1:C:1175:SER:HB2	1:C:1180:ARG:HD3	2.01	0.43
1:C:2876:GLU:C	1:C:2876:GLU:CD	2.87	0.43
1:C:3036:LYS:HD3	1:C:3039:ILE:HD11	2.00	0.43
1:C:3051:ARG:HA	1:C:3131:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3143:LEU:HA	1:C:3146:HIS:HD1	1.84	0.43
1:C:3805:LEU:HB3	1:C:3890:LEU:HB3	2.00	0.43
1:C:4235:VAL:HG11	1:C:5019:TRP:CH2	2.53	0.43
1:C:4995:LEU:HD21	1:C:5007:GLU:HB3	1.99	0.43
1:A:27:THR:OG1	1:A:32:GLN:OE1	2.28	0.43
1:A:150:MET:HB3	1:A:171:LEU:HD12	2.00	0.43
1:A:689:THR:HA	1:A:778:PHE:HE2	1.84	0.43
1:A:1435:TYR:HB2	1:A:1575:LEU:HD22	2.00	0.43
1:A:1866:ILE:HA	1:A:1926:LEU:HD12	2.00	0.43
1:A:2417:HIS:HB2	1:A:2491:SER:O	2.19	0.43
1:A:3144:PHE:CZ	1:A:3197:LEU:HD12	2.54	0.43
1:A:3354:LEU:HA	1:A:3358:PHE:CD2	2.42	0.43
1:A:3628:ARG:O	1:A:3632:VAL:HG13	2.18	0.43
1:A:3842:LEU:HB2	1:A:3929:SER:CB	2.40	0.43
1:A:4207:MET:HG3	1:A:4209:GLN:OE1	2.19	0.43
2:G:22:CYS:HB2	2:G:48:PHE:CE1	2.53	0.43
1:B:317:ARG:HG2	1:B:319:SER:H	1.84	0.43
1:B:961:MET:HE3	1:B:963:ASN:HB2	2.00	0.43
1:B:1105:ALA:O	1:B:1189:LEU:N	2.47	0.43
1:B:1175:SER:HB2	1:B:1180:ARG:HD3	2.00	0.43
1:B:1293:LEU:HD21	1:B:1594:ARG:HD3	2.01	0.43
1:B:2466:LEU:HG	1:B:2502:MET:SD	2.59	0.43
1:B:3059:THR:O	1:B:3062:PRO:HD2	2.19	0.43
1:B:4007:SER:HB3	1:B:4116:GLU:CD	2.44	0.43
1:B:4661:TYR:OH	1:B:4786:ASP:OD2	2.31	0.43
1:D:262:LEU:HD11	1:D:280:LEU:HD22	2.01	0.43
1:D:452:PHE:HZ	1:D:478:PHE:CD2	2.37	0.43
1:D:590:LEU:HD12	1:D:599:VAL:HG12	2.01	0.43
1:D:924:MET:O	1:D:928:THR:HG23	2.18	0.43
1:D:950:LEU:HB3	1:D:970:LEU:HD11	2.00	0.43
1:D:1100:MET:HE2	1:D:1198:GLN:HB3	2.01	0.43
1:D:1502:SER:HB2	1:D:1503:PRO:HD2	2.00	0.43
1:D:2698:MET:C	1:D:2701:PRO:HD2	2.43	0.43
1:D:2978:GLU:CD	1:D:3053:ARG:HD2	2.44	0.43
1:D:3445:TRP:HD1	1:D:3451:PHE:HD2	1.66	0.43
1:D:3546:ASP:O	1:D:3549:VAL:HG22	2.18	0.43
1:D:3916:ILE:O	1:D:3920:VAL:HG23	2.19	0.43
1:D:4673:ARG:O	1:D:4676:GLU:HG3	2.19	0.43
1:C:262:LEU:HD11	1:C:280:LEU:HD22	2.01	0.43
1:C:514:SER:HA	1:C:517:GLU:OE2	2.19	0.43
1:C:1446:SER:HA	1:C:1496:TRP:NE1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2233:CYS:HB3	1:C:2237:CYS:HB2	1.71	0.43
1:C:2271:THR:HG23	1:C:2274:ASP:N	2.27	0.43
1:C:2303:ALA:O	1:C:2307:LEU:HG	2.19	0.43
1:C:2466:LEU:HG	1:C:2502:MET:SD	2.59	0.43
1:C:2517:PHE:HA	1:C:2520:HIS:ND1	2.34	0.43
1:C:2970:SER:O	1:C:2974:ILE:HG12	2.18	0.43
1:C:3033:ASN:O	1:C:3037:GLU:OE1	2.36	0.43
1:C:3432:GLU:O	1:C:3436:ARG:NE	2.47	0.43
1:C:3628:ARG:O	1:C:3632:VAL:HG13	2.19	0.43
1:C:3991:GLY:HA2	1:C:3994:HIS:CE1	2.54	0.43
1:C:4207:MET:HE2	1:C:4207:MET:HA	2.01	0.43
1:C:4945:ASP:HA	1:C:4948:GLU:HG2	2.01	0.43
1:A:276:TRP:CH2	1:A:318:VAL:HB	2.54	0.42
1:A:803:LEU:HD23	1:A:804:PRO:O	2.18	0.42
1:A:1293:LEU:HD21	1:A:1594:ARG:HD3	2.01	0.42
1:A:2960:LEU:HD21	1:A:3038:MET:HB2	2.01	0.42
1:A:3143:LEU:HA	1:A:3146:HIS:HD1	1.84	0.42
1:A:3208:PRO:O	1:A:3212:GLU:OE1	2.38	0.42
2:H:73:LYS:HZ2	2:H:99:PHE:C	2.27	0.42
2:H:90:ILE:HG23	1:D:1687:SER:OG	2.19	0.42
1:B:276:TRP:CH2	1:B:318:VAL:HB	2.54	0.42
1:B:452:PHE:HZ	1:B:478:PHE:CD2	2.37	0.42
1:B:1424:PRO:HA	1:B:1427:ILE:HG22	2.00	0.42
1:B:1502:SER:HB2	1:B:1503:PRO:HD2	2.00	0.42
1:B:2321:ILE:HG22	1:B:2323:TRP:H	1.84	0.42
1:B:2471:SER:HA	1:B:2525:GLY:HA2	2.01	0.42
1:B:2719:TYR:HE2	1:B:2953:LYS:HA	1.82	0.42
1:B:3144:PHE:CZ	1:B:3197:LEU:HD12	2.54	0.42
1:B:3205:PHE:HE2	1:B:3243:ILE:HG12	1.84	0.42
1:B:4555:LEU:HD21	1:B:4656:LEU:HD22	2.00	0.42
1:D:19:GLU:OE1	1:D:205:ILE:HB	2.19	0.42
1:D:214:VAL:HG22	1:D:341:TYR:CD1	2.50	0.42
1:D:1078:GLU:HG3	1:D:1655:GLU:OE2	2.19	0.42
1:D:1237:TRP:CZ2	1:D:1652:GLU:HA	2.54	0.42
1:D:1966:VAL:HG21	1:D:3650:CYS:HA	2.00	0.42
1:D:2927:LEU:HD23	1:D:2927:LEU:HA	1.79	0.42
1:D:2960:LEU:HD22	1:D:3035:GLU:HG3	1.99	0.42
1:D:3059:THR:O	1:D:3062:PRO:HD2	2.19	0.42
1:D:3150:HIS:HB3	1:D:3152:PHE:CE1	2.53	0.42
1:D:3530:GLN:HA	1:D:3533:ILE:HD12	2.01	0.42
1:D:4007:SER:HB3	1:D:4116:GLU:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4207:MET:HE2	1:D:4207:MET:HA	2.01	0.42
1:D:4697:VAL:HG13	1:D:4698:LYS:HD3	2.01	0.42
1:C:332:GLU:H	1:C:332:GLU:CD	2.27	0.42
1:C:803:LEU:HG	1:C:804:PRO:HD2	2.00	0.42
1:C:924:MET:O	1:C:928:THR:HG23	2.18	0.42
1:C:1000:ARG:HH12	1:C:1018:ASN:HD22	1.66	0.42
1:C:1088:TRP:HB2	1:C:1153:ILE:CG2	2.49	0.42
1:C:1646:ARG:NH2	1:C:1648:MET:HE1	2.30	0.42
1:C:2638:LYS:HA	1:C:2641:LEU:HD12	2.00	0.42
1:C:2763:HIS:HB2	1:C:2802:LYS:HZ3	1.83	0.42
1:C:2888:ARG:O	1:C:2892:GLN:HG2	2.19	0.42
1:C:3144:PHE:CZ	1:C:3197:LEU:HD12	2.54	0.42
1:C:3222:LYS:O	1:C:3227:ARG:NH2	2.52	0.42
1:C:3779:VAL:HG13	1:C:3797:THR:HG22	2.01	0.42
1:C:3991:GLY:HA2	1:C:3994:HIS:ND1	2.34	0.42
1:C:4554:TYR:HA	1:C:4557:ARG:HH21	1.84	0.42
1:A:502:HIS:HA	1:A:505:GLU:OE1	2.19	0.42
1:A:950:LEU:HB3	1:A:970:LEU:HD11	2.01	0.42
1:A:1088:TRP:HB2	1:A:1153:ILE:CG2	2.49	0.42
1:A:2303:ALA:O	1:A:2307:LEU:HG	2.19	0.42
1:A:2867:LEU:HD22	1:A:2928:LYS:NZ	2.34	0.42
1:A:2888:ARG:O	1:A:2892:GLN:HG2	2.19	0.42
1:A:3591:LYS:HA	1:A:3594:ARG:NE	2.34	0.42
1:A:3916:ILE:O	1:A:3920:VAL:HG23	2.19	0.42
1:A:3991:GLY:HA2	1:A:3994:HIS:ND1	2.34	0.42
1:B:150:MET:HB3	1:B:171:LEU:HD12	2.00	0.42
1:B:1088:TRP:HB2	1:B:1153:ILE:CG2	2.49	0.42
1:B:1724:CYS:SG	1:B:1851:MET:HE2	2.60	0.42
1:B:2907:PRO:O	1:B:2910:THR:OG1	2.28	0.42
1:B:3215:ALA:O	1:B:3220:THR:OG1	2.31	0.42
1:B:3222:LYS:O	1:B:3227:ARG:NH2	2.52	0.42
1:B:3617:LYS:HD2	1:B:3617:LYS:N	2.34	0.42
1:B:4000:MET:HG2	1:B:4001:MET:HE2	2.01	0.42
1:B:4207:MET:HE2	1:B:4207:MET:HA	2.01	0.42
1:B:4673:ARG:O	1:B:4676:GLU:HG3	2.19	0.42
1:B:4888:TYR:HA	1:C:4918:ILE:HD11	2.00	0.42
1:D:276:TRP:CH2	1:D:318:VAL:HB	2.54	0.42
1:D:790:ARG:NH1	1:D:1624:LEU:O	2.47	0.42
1:D:803:LEU:HD23	1:D:804:PRO:O	2.18	0.42
1:D:876:GLU:HG2	1:D:918:ARG:HH22	1.83	0.42
1:D:1668:ARG:HD3	1:D:1671:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1739:THR:HB	1:D:1742:THR:H	1.84	0.42
1:D:2223:ILE:HD11	1:D:2229:VAL:HG21	1.99	0.42
1:D:3927:GLN:NE2	1:D:3931:SER:OG	2.53	0.42
1:C:20:VAL:CB	1:C:202:MET:HE2	2.49	0.42
1:C:457:GLU:HA	1:C:464:LYS:NZ	2.34	0.42
1:C:589:LEU:HA	1:C:592:LYS:HG2	2.02	0.42
1:C:1502:SER:HB2	1:C:1503:PRO:HD2	2.00	0.42
1:C:2779:GLU:HA	1:C:2792:ARG:HG3	2.01	0.42
1:C:2971:GLN:HA	1:C:2974:ILE:HG12	2.00	0.42
1:C:3844:LEU:HD11	1:C:3932:ASP:HB3	2.01	0.42
1:C:4000:MET:HG2	1:C:4001:MET:HE2	2.01	0.42
1:C:4749:GLU:OE1	1:C:4753:HIS:NE2	2.53	0.42
1:A:262:LEU:HD11	1:A:280:LEU:HD22	2.01	0.42
1:A:920:TYR:O	1:A:923:GLN:HG3	2.19	0.42
1:A:1237:TRP:CZ2	1:A:1652:GLU:HA	2.54	0.42
1:A:1668:ARG:HD3	1:A:1671:ARG:HE	1.84	0.42
1:A:1869:GLU:HA	1:A:1872:THR:HG23	2.00	0.42
1:A:2466:LEU:HG	1:A:2502:MET:SD	2.59	0.42
1:A:2802:LYS:HA	1:A:2802:LYS:HD3	1.67	0.42
1:A:2907:PRO:HB2	1:A:2910:THR:HG23	2.02	0.42
1:A:3127:GLN:HA	1:A:3130:THR:HG22	2.02	0.42
1:A:3779:VAL:HG13	1:A:3797:THR:HG22	2.01	0.42
1:A:3794:VAL:HG13	1:A:3880:PHE:CE1	2.53	0.42
1:A:4007:SER:HB3	1:A:4116:GLU:CD	2.44	0.42
1:B:106:ALA:HA	1:B:149:THR:HA	2.01	0.42
1:B:457:GLU:HA	1:B:464:LYS:NZ	2.34	0.42
1:B:502:HIS:HA	1:B:505:GLU:OE1	2.19	0.42
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.18	0.42
1:B:1464:PHE:HZ	1:B:1494:MET:HG3	1.84	0.42
1:B:2654:TYR:HD1	1:B:2661:TRP:H	1.66	0.42
1:B:2794:TYR:HA	1:B:2797:PHE:HB2	2.00	0.42
1:B:3550:ARG:HH22	1:B:3593:VAL:HG23	1.84	0.42
1:B:3927:GLN:NE2	1:B:3931:SER:OG	2.53	0.42
1:B:4945:ASP:HA	1:B:4948:GLU:HG2	2.01	0.42
1:D:1443:GLN:NE2	1:D:1561:VAL:HA	2.33	0.42
1:D:1446:SER:HA	1:D:1496:TRP:NE1	2.33	0.42
1:D:1694:LEU:O	1:D:1698:LEU:HG	2.18	0.42
1:D:2205:GLU:O	1:D:2209:GLU:HG2	2.18	0.42
1:D:2303:ALA:O	1:D:2307:LEU:HG	2.19	0.42
1:D:2907:PRO:HB2	1:D:2910:THR:HG23	2.02	0.42
1:D:2958:GLY:O	1:D:2962:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2971:GLN:HA	1:D:2974:ILE:HG12	2.00	0.42
1:D:3514:LEU:HD21	1:D:3606:LEU:HD13	2.01	0.42
1:D:3591:LYS:HA	1:D:3594:ARG:NE	2.34	0.42
1:D:3607:GLU:HB3	1:D:3611:HIS:HE1	1.83	0.42
1:D:4555:LEU:HD21	1:D:4656:LEU:HD22	2.00	0.42
1:D:4945:ASP:HA	1:D:4948:GLU:HG2	2.01	0.42
1:C:106:ALA:HA	1:C:149:THR:HA	2.00	0.42
1:C:1100:MET:HE2	1:C:1198:GLN:HB3	2.01	0.42
1:C:1293:LEU:HD21	1:C:1594:ARG:HD3	2.01	0.42
1:C:1449:TRP:HB2	1:C:1553:PHE:HB2	2.00	0.42
1:C:1668:ARG:HD3	1:C:1671:ARG:HE	1.84	0.42
1:C:2321:ILE:HG22	1:C:2323:TRP:H	1.84	0.42
1:C:3205:PHE:HE2	1:C:3243:ILE:HG12	1.84	0.42
1:C:3375:GLU:O	1:C:3378:GLN:HB3	2.19	0.42
1:C:4007:SER:HB3	1:C:4116:GLU:CD	2.44	0.42
1:C:4634:GLU:OE1	1:C:4636:THR:OG1	2.37	0.42
1:C:4853:VAL:HG22	1:C:4879:MET:HE1	2.02	0.42
1:A:822:ARG:HE	1:A:823:LEU:H	1.65	0.42
1:A:1078:GLU:HG3	1:A:1655:GLU:OE2	2.19	0.42
1:A:1724:CYS:SG	1:A:1851:MET:HE2	2.60	0.42
1:A:1931:LEU:HD12	1:A:1935:VAL:HG11	2.00	0.42
1:A:1939:MET:HE3	1:A:1939:MET:HB2	1.83	0.42
1:A:2522:LEU:O	1:A:2527:LEU:N	2.48	0.42
1:A:3143:LEU:O	1:A:3147:ILE:HG22	2.20	0.42
1:A:3513:THR:HA	1:A:3516:LYS:HZ2	1.84	0.42
1:A:3844:LEU:CD1	1:B:76:ARG:HD3	2.48	0.42
1:A:3850:GLN:O	1:A:3854:GLU:OE1	2.36	0.42
1:A:3991:GLY:HA2	1:A:3994:HIS:CE1	2.54	0.42
1:A:4207:MET:HA	1:A:4207:MET:HE2	2.01	0.42
1:A:4749:GLU:OE1	1:A:4753:HIS:NE2	2.53	0.42
1:B:19:GLU:OE1	1:B:205:ILE:HB	2.19	0.42
1:B:262:LEU:HD11	1:B:280:LEU:HD22	2.01	0.42
1:B:876:GLU:HG2	1:B:918:ARG:HH22	1.83	0.42
1:B:1000:ARG:HH12	1:B:1018:ASN:HD22	1.65	0.42
1:B:1931:LEU:HD12	1:B:1935:VAL:HG11	2.00	0.42
1:B:2369[A]:ARG:HE	1:B:2369[A]:ARG:HB2	1.69	0.42
1:B:3157:ILE:HG23	1:B:3161:VAL:HB	2.01	0.42
1:B:3613:TYR:O	1:B:3617:LYS:HD3	2.18	0.42
1:B:3628:ARG:O	1:B:3632:VAL:HG13	2.19	0.42
1:D:2321:ILE:HG22	1:D:2323:TRP:H	1.84	0.42
1:D:2393:ASP:OD1	1:D:2419:GLY:N	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2417:HIS:HB2	1:D:2491:SER:O	2.19	0.42
1:D:2779:GLU:HA	1:D:2792:ARG:HG3	2.02	0.42
1:D:3205:PHE:HE2	1:D:3243:ILE:HG12	1.84	0.42
1:D:3375:GLU:O	1:D:3378:GLN:HB3	2.19	0.42
1:C:19:GLU:OE1	1:C:205:ILE:HB	2.19	0.42
1:C:219:VAL:HG11	1:C:259:LEU:HB3	2.02	0.42
1:C:276:TRP:CH2	1:C:318:VAL:HB	2.54	0.42
1:C:2522:LEU:O	1:C:2527:LEU:N	2.48	0.42
1:C:2794:TYR:HA	1:C:2797:PHE:HB2	2.01	0.42
1:C:3081:MET:HE3	1:C:3155:ASP:O	2.18	0.42
1:C:3530:GLN:HA	1:C:3533:ILE:HD12	2.01	0.42
1:C:3591:LYS:HA	1:C:3594:ARG:NE	2.34	0.42
1:C:3890:LEU:HD23	1:C:3890:LEU:HA	1.91	0.42
1:C:3916:ILE:O	1:C:3920:VAL:HG23	2.19	0.42
1:C:4681:LEU:HD21	1:C:4687:TYR:HD2	1.84	0.42
1:A:1502:SER:HB2	1:A:1503:PRO:HD2	2.00	0.42
1:A:1660:GLN:NE2	1:A:1706:PRO:HB2	2.33	0.42
1:A:1854:PHE:CD2	1:A:1858:ASP:HB3	2.54	0.42
1:A:2321:ILE:HG22	1:A:2323:TRP:H	1.84	0.42
1:A:2532:ALA:O	1:A:2535:SER:OG	2.31	0.42
1:A:2676:ARG:HB2	1:A:2714:TYR:HH	1.84	0.42
2:E:22:CYS:HA	2:E:106:LEU:HD12	2.01	0.42
2:G:22:CYS:HA	2:G:106:LEU:HD12	2.01	0.42
1:B:213:TYR:HA	1:B:340:LYS:HA	2.00	0.42
1:B:514:SER:HA	1:B:517:GLU:OE2	2.19	0.42
1:B:589:LEU:HA	1:B:592:LYS:HG2	2.01	0.42
1:B:722:TRP:CE2	1:B:727:ALA:HB2	2.54	0.42
1:B:2303:ALA:O	1:B:2307:LEU:HG	2.19	0.42
1:B:3078:ARG:O	1:B:3081:MET:HG3	2.20	0.42
1:B:3127:GLN:HA	1:B:3130:THR:HG22	2.02	0.42
1:B:3514:LEU:HD21	1:B:3606:LEU:HD13	2.01	0.42
1:B:4158:PRO:HG2	1:B:4159:ARG:NH1	2.34	0.42
1:B:4759:ASP:HA	1:B:4760:PRO:HD3	1.92	0.42
1:D:213:TYR:HA	1:D:340:LYS:HA	2.00	0.42
1:D:502:HIS:HA	1:D:505:GLU:OE1	2.19	0.42
1:D:1293:LEU:HD21	1:D:1594:ARG:HD3	2.01	0.42
1:D:1931:LEU:HD12	1:D:1935:VAL:HG11	2.00	0.42
1:D:2466:LEU:HG	1:D:2502:MET:SD	2.59	0.42
1:D:2539:ALA:O	1:D:2543:THR:HG23	2.20	0.42
1:D:2694:GLU:O	1:D:2697:ARG:HG3	2.20	0.42
1:D:3035:GLU:HA	1:D:3038:MET:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3143:LEU:HA	1:D:3146:HIS:HD1	1.84	0.42
1:D:3157:ILE:HG23	1:D:3161:VAL:HB	2.01	0.42
1:D:3844:LEU:HD11	1:D:3932:ASP:HB3	2.01	0.42
1:D:4207:MET:HG3	1:D:4209:GLN:OE1	2.19	0.42
1:D:4651:THR:HG1	1:D:4803:HIS:CD2	2.30	0.42
1:D:4681:LEU:HD21	1:D:4687:TYR:HD2	1.84	0.42
1:D:4749:GLU:OE1	1:D:4753:HIS:NE2	2.53	0.42
1:C:2417:HIS:HB2	1:C:2491:SER:O	2.19	0.42
1:C:2739:PRO:N	1:C:2888:ARG:HH21	2.18	0.42
1:C:3069:HIS:CE1	1:C:3142:THR:HG1	2.24	0.42
1:C:3209:GLN:OE1	1:C:3209:GLN:N	2.49	0.42
1:C:3981:ALA:HA	1:C:3986:TRP:CZ2	2.54	0.42
1:A:539:LEU:O	1:A:542:THR:OG1	2.34	0.42
1:A:1125:ASN:O	1:A:1128:ARG:NH2	2.52	0.42
1:A:1126:GLY:O	1:A:1129:GLY:N	2.53	0.42
1:A:1931:LEU:HD23	1:A:1939:MET:HE1	2.02	0.42
1:A:2739:PRO:N	1:A:2888:ARG:HH21	2.18	0.42
1:A:2958:GLY:O	1:A:2962:GLN:HG2	2.19	0.42
1:A:3378:GLN:OE1	1:A:3381:LEU:HD11	2.19	0.42
1:B:356:TRP:HB2	1:B:379:HIS:O	2.20	0.42
1:B:732:SER:HB3	1:B:735:GLN:HG3	2.02	0.42
1:B:1125:ASN:O	1:B:1128:ARG:NH2	2.52	0.42
1:B:1126:GLY:O	1:B:1129:GLY:N	2.53	0.42
1:B:1435:TYR:HB2	1:B:1575:LEU:HD22	2.00	0.42
1:B:1449:TRP:HB2	1:B:1553:PHE:HB2	2.00	0.42
1:B:1970:GLN:NE2	1:B:3641:LEU:O	2.34	0.42
1:B:1977:TYR:HA	1:B:1980:LEU:HB3	2.02	0.42
1:B:2415:ARG:HH22	1:B:2417:HIS:HA	1.83	0.42
1:B:3051:ARG:HA	1:B:3131:TYR:CZ	2.54	0.42
1:B:3093:ARG:HA	1:B:3096:PHE:HD2	1.84	0.42
1:B:3208:PRO:O	1:B:3212:GLU:OE1	2.38	0.42
1:B:3845:ASN:O	1:B:3849:ARG:HG3	2.20	0.42
1:B:3991:GLY:HA2	1:B:3994:HIS:CE1	2.54	0.42
1:B:4681:LEU:HD21	1:B:4687:TYR:HD2	1.84	0.42
1:D:355:LEU:HB2	1:D:378:LEU:HG	2.02	0.42
1:D:402:ARG:HA	1:D:402:ARG:HD2	1.95	0.42
1:D:648:ILE:HD11	1:D:779:PRO:HG2	2.00	0.42
1:D:1773:PRO:HD3	1:D:2156:LEU:HD21	2.02	0.42
1:D:2236:LEU:HB3	1:D:2250:MET:HE1	2.01	0.42
1:D:2739:PRO:N	1:D:2888:ARG:HH21	2.18	0.42
1:D:3051:ARG:HA	1:D:3131:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3845:ASN:O	1:D:3849:ARG:HG3	2.20	0.42
1:D:4853:VAL:HG22	1:D:4879:MET:HE1	2.02	0.42
1:C:63:ALA:N	1:C:261:ARG:HH22	2.17	0.42
1:C:1712:TYR:CG	1:C:1840:PRO:HB3	2.55	0.42
1:C:1724:CYS:SG	1:C:1851:MET:HE2	2.60	0.42
1:C:1739:THR:HB	1:C:1742:THR:H	1.85	0.42
1:C:1977:TYR:HA	1:C:1980:LEU:HB3	2.02	0.42
1:C:2539:ALA:O	1:C:2543:THR:HG23	2.20	0.42
1:C:2907:PRO:HB2	1:C:2910:THR:HG23	2.02	0.42
1:C:2927:LEU:HD23	1:C:2927:LEU:HA	1.79	0.42
1:C:2951:ILE:O	1:C:2954:ARG:HB2	2.20	0.42
1:C:3094:SER:O	1:C:3098:SER:OG	2.31	0.42
1:C:3127:GLN:HA	1:C:3130:THR:HG22	2.02	0.42
1:C:3145:GLN:HE21	1:C:3196:ARG:CD	2.31	0.42
1:C:3330:ASP:OD1	1:C:3331:GLU:N	2.49	0.42
1:C:3927:GLN:NE2	1:C:3931:SER:OG	2.53	0.42
1:C:4632:LEU:HD23	1:C:4633:GLU:N	2.34	0.42
1:A:648:ILE:HD11	1:A:779:PRO:HG2	2.01	0.42
1:A:1100:MET:HE2	1:A:1198:GLN:HB3	2.01	0.42
1:A:2292:GLU:H	1:A:2292:GLU:CD	2.23	0.42
1:A:3343:GLN:HA	1:A:3414:ARG:CZ	2.49	0.42
1:A:4661:TYR:OH	1:A:4786:ASP:OD2	2.31	0.42
1:A:4917:ASP:HB3	1:D:4892:ARG:NH1	2.34	0.42
1:B:63:ALA:N	1:B:261:ARG:HH22	2.17	0.42
1:B:1433:TYR:CD1	1:B:1573:MET:HB3	2.55	0.42
1:B:1712:TYR:CG	1:B:1840:PRO:HB3	2.55	0.42
1:B:2739:PRO:N	1:B:2888:ARG:HH21	2.18	0.42
1:B:2779:GLU:HA	1:B:2792:ARG:HG3	2.02	0.42
1:B:4569:LEU:HD12	1:B:4569:LEU:HA	1.92	0.42
1:B:4853:VAL:HG22	1:B:4879:MET:HE1	2.01	0.42
1:D:28:VAL:O	1:D:31:GLU:HG3	2.19	0.42
1:D:317:ARG:HG2	1:D:319:SER:H	1.84	0.42
1:D:689:THR:HA	1:D:778:PHE:HE2	1.84	0.42
1:D:1237:TRP:HZ2	1:D:1652:GLU:HA	1.85	0.42
1:D:1466:LEU:HD11	1:D:1495:VAL:HA	2.01	0.42
1:D:1854:PHE:CD2	1:D:1858:ASP:HB3	2.54	0.42
1:D:2763:HIS:HB2	1:D:2802:LYS:HZ3	1.85	0.42
1:D:3378:GLN:OE1	1:D:3381:LEU:HD11	2.19	0.42
1:D:3779:VAL:HG13	1:D:3797:THR:HG22	2.01	0.42
1:D:3826:VAL:O	1:D:3830:GLN:HG3	2.20	0.42
1:D:4554:TYR:HA	1:D:4557:ARG:HH21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:28:VAL:O	1:C:31:GLU:HG3	2.19	0.42
1:C:732:SER:HB3	1:C:735:GLN:HG3	2.02	0.42
1:C:1126:GLY:O	1:C:1129:GLY:N	2.53	0.42
1:C:1435:TYR:HB2	1:C:1575:LEU:HD22	2.00	0.42
1:C:2532:ALA:O	1:C:2536:LEU:HG	2.20	0.42
1:C:3845:ASN:O	1:C:3849:ARG:HG3	2.20	0.42
1:C:4801:LEU:HG	1:C:4808:PHE:CD2	2.55	0.42
1:A:514:SER:HA	1:A:517:GLU:OE2	2.19	0.42
1:A:1773:PRO:HD3	1:A:2156:LEU:HD21	2.02	0.42
1:A:2393:ASP:OD1	1:A:2419:GLY:N	2.44	0.42
1:A:3514:LEU:HD21	1:A:3606:LEU:HD13	2.01	0.42
1:A:3845:ASN:O	1:A:3849:ARG:HG3	2.20	0.42
1:A:4697:VAL:HG13	1:A:4698:LYS:HD3	2.01	0.42
1:B:1037:ASP:O	1:B:1041:GLN:HG2	2.18	0.42
1:B:1931:LEU:HD23	1:B:1939:MET:HE1	2.01	0.42
1:B:1966:VAL:HG21	1:B:3650:CYS:HA	2.00	0.42
1:B:2960:LEU:HD21	1:B:3038:MET:HB2	2.01	0.42
1:B:2978:GLU:CD	1:B:3053:ARG:HD2	2.44	0.42
1:B:3601:ALA:HA	1:B:3604:TYR:CE1	2.54	0.42
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.55	0.42
1:B:4044:MET:O	1:B:4048:LEU:HG	2.20	0.42
1:D:873:LYS:HG3	1:D:1049:TYR:OH	2.20	0.42
1:D:1646:ARG:NH2	1:D:1648:MET:HE1	2.30	0.42
1:D:1931:LEU:HD23	1:D:1939:MET:HE1	2.01	0.42
1:D:2251:PHE:HA	1:D:2254:LEU:HB2	2.02	0.42
1:D:2471:SER:HA	1:D:2525:GLY:HA2	2.01	0.42
1:D:3143:LEU:HD13	1:D:3146:HIS:CE1	2.47	0.42
1:D:3143:LEU:O	1:D:3147:ILE:HG22	2.20	0.42
1:D:3144:PHE:CZ	1:D:3197:LEU:HD12	2.54	0.42
1:D:3208:PRO:O	1:D:3212:GLU:OE1	2.38	0.42
1:D:3617:LYS:HD2	1:D:3617:LYS:N	2.34	0.42
1:D:3872:GLU:HG3	1:D:3874:VAL:H	1.85	0.42
1:D:3981:ALA:HA	1:D:3986:TRP:CZ2	2.55	0.42
1:D:4189:ARG:NH2	1:D:5032:TYR:OH	2.46	0.42
1:C:689:THR:HA	1:C:778:PHE:HE2	1.84	0.42
1:C:1032:LYS:O	1:C:1036:ARG:NE	2.47	0.42
1:C:1078:GLU:HG3	1:C:1655:GLU:OE2	2.19	0.42
1:C:1103:GLY:HA3	1:C:1123:VAL:HG12	2.02	0.42
1:C:1433:TYR:CD1	1:C:1573:MET:HB3	2.55	0.42
1:C:2694:GLU:O	1:C:2697:ARG:HG3	2.20	0.42
1:C:3066:ASN:HA	1:C:3069:HIS:CD2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4865:LYS:HD3	1:C:4865:LYS:HA	1.75	0.42
1:A:317:ARG:HG2	1:A:319:SER:H	1.84	0.42
1:A:1068:ARG:HA	1:A:1071:ARG:HB3	2.02	0.42
1:A:1433:TYR:CD1	1:A:1573:MET:HB3	2.55	0.42
1:A:1712:TYR:CG	1:A:1840:PRO:HB3	2.55	0.42
1:A:3375:GLU:O	1:A:3378:GLN:HB3	2.19	0.42
1:A:3927:GLN:NE2	1:A:3931:SER:OG	2.53	0.42
1:B:550:LYS:O	1:B:560:ILE:HD13	2.20	0.42
1:B:1077:ALA:HB3	1:B:1189:LEU:HD22	2.02	0.42
1:B:2971:GLN:HA	1:B:2974:ILE:HG12	2.00	0.42
1:B:3110:LEU:HD23	1:B:3175:LEU:HG	2.02	0.42
1:B:3530:GLN:HA	1:B:3533:ILE:HD12	2.01	0.42
1:B:3844:LEU:HD11	1:B:3932:ASP:HB3	2.01	0.42
1:B:3916:ILE:O	1:B:3920:VAL:HG23	2.19	0.42
1:D:222:LEU:HD23	1:D:222:LEU:HA	1.86	0.42
1:D:514:SER:HA	1:D:517:GLU:OE2	2.19	0.42
1:D:722:TRP:CE2	1:D:727:ALA:HB2	2.55	0.42
1:D:838:HIS:CE1	1:D:1201:HIS:HB2	2.55	0.42
1:D:867:LEU:O	1:D:871:ARG:HB2	2.20	0.42
1:D:3432:GLU:O	1:D:3436:ARG:NE	2.47	0.42
1:C:1464:PHE:HZ	1:C:1494:MET:HG3	1.84	0.42
1:C:2453:ILE:O	1:C:2457:LEU:HG	2.20	0.42
1:C:2978:GLU:CD	1:C:3053:ARG:HD2	2.44	0.42
1:C:3035:GLU:HA	1:C:3038:MET:HE3	2.02	0.42
1:C:3093:ARG:HA	1:C:3096:PHE:HD2	1.84	0.42
1:C:3514:LEU:HD21	1:C:3606:LEU:HD13	2.01	0.42
1:C:4760:PRO:HA	1:C:4761:PRO:HD3	1.94	0.42
1:A:273:HIS:HB3	1:A:337:PRO:HA	2.02	0.42
1:A:332:GLU:H	1:A:332:GLU:CD	2.27	0.42
1:A:838:HIS:CE1	1:A:1201:HIS:HB2	2.55	0.42
1:A:1992:ALA:HB1	1:A:1996:ARG:NH2	2.35	0.42
1:A:2699:ALA:O	1:A:2702:CYS:HB3	2.18	0.42
1:A:2779:GLU:HA	1:A:2792:ARG:HG3	2.02	0.42
1:A:4147:LEU:HD23	1:A:4147:LEU:HA	1.89	0.42
1:A:4747:SER:HA	1:A:4750:ILE:HG12	2.02	0.42
1:B:308:HIS:C	1:B:310:LYS:H	2.28	0.42
1:B:332:GLU:H	1:B:332:GLU:CD	2.27	0.42
1:B:385:ASP:OD1	1:C:156:GLN:NE2	2.53	0.42
1:B:950:LEU:HB3	1:B:970:LEU:HD11	2.01	0.42
1:B:1068:ARG:HA	1:B:1071:ARG:HB3	2.02	0.42
1:B:1130:GLN:NE2	1:B:1136:SER:HB2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1164:LEU:N	1:B:1167:GLU:O	2.46	0.42
1:B:1466:LEU:HD11	1:B:1495:VAL:HA	2.01	0.42
1:B:2499:LYS:NZ	1:B:2529:ASP:OD1	2.44	0.42
1:B:2522:LEU:O	1:B:2527:LEU:N	2.48	0.42
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.19	0.42
1:B:3143:LEU:O	1:B:3147:ILE:HG22	2.20	0.42
1:B:3343:GLN:HA	1:B:3414:ARG:CZ	2.49	0.42
1:B:3587:ASP:HA	1:B:3591:LYS:HE3	2.02	0.42
1:B:3591:LYS:HA	1:B:3594:ARG:NE	2.34	0.42
1:B:4001:MET:HE1	1:B:4061:PHE:HB2	2.02	0.42
1:B:4093:PHE:O	1:B:4097:MET:HG2	2.20	0.42
1:D:308:HIS:C	1:D:310:LYS:H	2.28	0.42
1:D:356:TRP:HB2	1:D:379:HIS:O	2.20	0.42
1:D:589:LEU:HA	1:D:592:LYS:HG2	2.01	0.42
1:D:1712:TYR:CG	1:D:1840:PRO:HB3	2.55	0.42
1:D:1724:CYS:SG	1:D:1851:MET:HE2	2.60	0.42
1:D:3093:ARG:HA	1:D:3096:PHE:HD2	1.84	0.42
1:D:3508:SER:O	1:D:3511:VAL:HG22	2.20	0.42
1:D:3676:ASP:HA	1:D:3679:LYS:HZ1	1.83	0.42
1:D:4072:VAL:HG11	1:D:4129:ALA:HB2	2.02	0.42
1:D:4998:LYS:NZ	1:D:5002:GLU:O	2.50	0.42
1:C:317:ARG:HG2	1:C:319:SER:H	1.84	0.42
1:C:356:TRP:HB2	1:C:379:HIS:O	2.20	0.42
1:C:3143:LEU:O	1:C:3147:ILE:HG22	2.20	0.42
1:C:3378:GLN:OE1	1:C:3381:LEU:HD11	2.19	0.42
1:C:3445:TRP:HD1	1:C:3451:PHE:HD2	1.66	0.42
1:C:3817:LEU:HG	1:C:3821:LYS:HD2	2.02	0.42
1:C:4947:GLN:HB3	1:C:4951:LYS:HZ1	1.83	0.42
1:A:20:VAL:CB	1:A:202:MET:HE2	2.49	0.41
1:A:28:VAL:O	1:A:31:GLU:HG3	2.19	0.41
1:A:356:TRP:HB2	1:A:379:HIS:O	2.20	0.41
1:A:1237:TRP:HZ2	1:A:1652:GLU:HA	1.85	0.41
1:A:1708:ARG:O	1:A:1712:TYR:HD1	2.02	0.41
1:A:1966:VAL:HG21	1:A:3650:CYS:HA	2.00	0.41
1:A:2765:LYS:HA	1:A:2768:PHE:CD2	2.50	0.41
1:A:2766:TRP:O	1:A:2770:LYS:HG2	2.21	0.41
1:A:2951:ILE:O	1:A:2954:ARG:HB2	2.20	0.41
1:A:3330:ASP:OD1	1:A:3331:GLU:N	2.49	0.41
1:A:3850:GLN:O	1:A:3853:ALA:HB3	2.20	0.41
1:A:3872:GLU:HG3	1:A:3874:VAL:H	1.85	0.41
1:A:4072:VAL:HG11	1:A:4129:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:92:PRO:HA	2:H:93:PRO:HD3	1.95	0.41
2:G:40:ARG:HH22	2:G:102:GLU:HG2	1.85	0.41
1:B:408:ALA:O	1:B:412:ASN:ND2	2.40	0.41
1:B:689:THR:HA	1:B:778:PHE:HE2	1.84	0.41
1:B:838:HIS:CE1	1:B:1201:HIS:HB2	2.55	0.41
1:B:1668:ARG:HD3	1:B:1671:ARG:HE	1.84	0.41
1:B:1703:LEU:HD23	1:B:1704:PRO:O	2.20	0.41
1:B:2003:GLN:OE1	1:B:3652:MET:HG3	2.20	0.41
1:B:2487:GLN:NE2	1:B:2490:MET:HE1	2.35	0.41
1:B:3035:GLU:HA	1:B:3038:MET:HE3	2.02	0.41
1:B:3375:GLU:O	1:B:3378:GLN:HB3	2.19	0.41
1:B:3378:GLN:OE1	1:B:3381:LEU:HD11	2.19	0.41
1:B:3509:LEU:HD23	1:B:3509:LEU:HA	1.90	0.41
1:B:3779:VAL:HG13	1:B:3797:THR:HG22	2.01	0.41
1:B:4716:TRP:O	1:B:4718:LYS:NZ	2.50	0.41
1:B:4749:GLU:OE1	1:B:4753:HIS:NE2	2.53	0.41
1:B:4801:LEU:HG	1:B:4808:PHE:CD2	2.55	0.41
1:D:219:VAL:HG11	1:D:259:LEU:HB3	2.02	0.41
1:D:732:SER:HB3	1:D:735:GLN:HG3	2.02	0.41
1:D:815:VAL:O	1:D:1007:TYR:OH	2.27	0.41
1:D:1000:ARG:HH12	1:D:1018:ASN:HD22	1.66	0.41
1:D:1126:GLY:O	1:D:1129:GLY:N	2.53	0.41
1:D:1433:TYR:CD1	1:D:1573:MET:HB3	2.55	0.41
1:D:2876:GLU:C	1:D:2876:GLU:CD	2.87	0.41
1:D:3107:VAL:HB	1:D:3175:LEU:HD11	2.02	0.41
1:D:4632:LEU:HD23	1:D:4633:GLU:N	2.34	0.41
1:D:4801:LEU:HG	1:D:4808:PHE:CD2	2.55	0.41
1:C:1692:ALA:HA	1:C:1695:LEU:HD12	2.02	0.41
1:C:2182:ILE:C	1:C:2234:ARG:HH22	2.28	0.41
1:C:2487:GLN:NE2	1:C:2490:MET:HE1	2.35	0.41
1:C:2610:LEU:CD2	1:C:2614:ILE:HD11	2.48	0.41
1:C:3107:VAL:HB	1:C:3175:LEU:HD11	2.02	0.41
1:C:3110:LEU:HD23	1:C:3175:LEU:HG	2.02	0.41
1:C:3826:VAL:O	1:C:3830:GLN:HG3	2.20	0.41
1:C:4020:GLN:O	1:C:4023:MET:HB3	2.20	0.41
1:C:4093:PHE:O	1:C:4097:MET:HG2	2.20	0.41
1:C:4885:PHE:CZ	1:C:4889:VAL:HG21	2.55	0.41
1:A:550:LYS:O	1:A:560:ILE:HD13	2.20	0.41
1:A:563:VAL:O	1:A:567:VAL:HG23	2.21	0.41
1:A:589:LEU:HA	1:A:592:LYS:HG2	2.01	0.41
1:A:732:SER:HB3	1:A:735:GLN:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1103:GLY:HA3	1:A:1123:VAL:HG12	2.02	0.41
1:A:1466:LEU:HD11	1:A:1495:VAL:HA	2.01	0.41
1:A:1653:LEU:O	1:A:1660:GLN:HB2	2.21	0.41
1:A:3530:GLN:HA	1:A:3533:ILE:HD12	2.01	0.41
1:A:3981:ALA:HA	1:A:3986:TRP:CZ2	2.55	0.41
1:A:4945:ASP:HA	1:A:4948:GLU:HG2	2.01	0.41
1:B:28:VAL:O	1:B:31:GLU:HG3	2.19	0.41
1:B:645:ARG:NH2	1:B:826:ILE:HG23	2.34	0.41
1:B:1466:LEU:O	1:B:1469:VAL:HG22	2.21	0.41
1:B:1699:GLU:OE2	1:B:1810:LYS:HE3	2.21	0.41
1:B:1815:LEU:HD12	1:B:1815:LEU:HA	1.91	0.41
1:B:1992:ALA:HB1	1:B:1996:ARG:NH2	2.35	0.41
1:B:2182:ILE:C	1:B:2234:ARG:HH22	2.29	0.41
1:B:2532:ALA:O	1:B:2536:LEU:HG	2.20	0.41
1:B:3145:GLN:HE21	1:B:3196:ARG:CD	2.31	0.41
1:B:3508:SER:O	1:B:3511:VAL:HG22	2.20	0.41
1:B:3944:GLU:CD	1:B:3947:GLY:H	2.28	0.41
1:B:4032:GLU:OE2	1:B:5004:THR:HB	2.20	0.41
1:D:580:GLU:CD	1:D:624:ASN:HD21	2.28	0.41
1:D:1077:ALA:HB3	1:D:1189:LEU:HD22	2.02	0.41
1:D:1692:ALA:HA	1:D:1695:LEU:HD12	2.02	0.41
1:D:2453:ILE:O	1:D:2457:LEU:HG	2.20	0.41
1:D:2532:ALA:O	1:D:2535:SER:OG	2.31	0.41
1:D:2766:TRP:O	1:D:2770:LYS:HG2	2.21	0.41
1:D:2888:ARG:O	1:D:2892:GLN:HG2	2.19	0.41
1:D:2960:LEU:HD21	1:D:3038:MET:HB2	2.01	0.41
1:D:3729:MET:HG2	1:D:3770:LEU:HD13	2.02	0.41
1:D:4093:PHE:O	1:D:4097:MET:HG2	2.20	0.41
1:D:4947:GLN:HB3	1:D:4951:LYS:HZ1	1.85	0.41
1:C:296:ASP:OD1	1:C:297:GLN:N	2.53	0.41
1:C:452:PHE:HZ	1:C:478:PHE:CD2	2.37	0.41
1:C:636:ASN:HA	1:C:1693:GLN:HE21	1.86	0.41
1:C:873:LYS:HG3	1:C:1049:TYR:OH	2.20	0.41
1:C:950:LEU:HB3	1:C:970:LEU:HD11	2.01	0.41
1:C:1237:TRP:HZ2	1:C:1652:GLU:HA	1.85	0.41
1:C:1466:LEU:HD11	1:C:1495:VAL:HA	2.01	0.41
1:C:3587:ASP:HA	1:C:3591:LYS:HE3	2.02	0.41
1:C:3729:MET:HG2	1:C:3770:LEU:HD13	2.02	0.41
1:C:3817:LEU:HD13	1:C:3899:PHE:CD1	2.55	0.41
1:C:3872:GLU:HG3	1:C:3874:VAL:H	1.85	0.41
1:C:3992:PHE:HB2	1:C:4023:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:ALA:N	1:A:261:ARG:HH22	2.17	0.41
1:A:129:ASP:OD1	1:D:2371:GLU:N	2.54	0.41
1:A:296:ASP:OD1	1:A:297:GLN:N	2.53	0.41
1:A:308:HIS:C	1:A:310:LYS:H	2.28	0.41
1:A:616:SER:O	1:A:620:LEU:HG	2.21	0.41
1:A:867:LEU:O	1:A:871:ARG:HB2	2.20	0.41
1:A:1699:GLU:OE2	1:A:1810:LYS:HE3	2.21	0.41
1:A:2003:GLN:OE1	1:A:3652:MET:HG3	2.20	0.41
1:A:2172:PRO:O	1:A:2175:GLU:HG2	2.21	0.41
1:A:2236:LEU:HB3	1:A:2250:MET:HE1	2.01	0.41
1:A:2300:SER:HA	1:A:2360:LYS:HE2	2.03	0.41
1:A:2669:GLU:HG2	1:A:2672:LEU:HD12	2.02	0.41
1:A:3078:ARG:O	1:A:3081:MET:HG3	2.20	0.41
1:A:3078:ARG:O	1:A:3082:LYS:HG3	2.21	0.41
1:A:3420:ARG:NH2	1:B:1167:GLU:OE1	2.53	0.41
1:A:3474:SER:HB3	1:B:1170:MET:HG2	2.02	0.41
1:A:3992:PHE:HB2	1:A:4023:MET:HE1	2.02	0.41
1:A:4961:CYS:SG	1:A:4978:HIS:NE2	2.94	0.41
2:H:22:CYS:HA	2:H:106:LEU:HD12	2.01	0.41
1:B:867:LEU:O	1:B:871:ARG:HB2	2.20	0.41
1:B:1100:MET:HE2	1:B:1198:GLN:HB3	2.01	0.41
1:B:1708:ARG:O	1:B:1712:TYR:HD1	2.02	0.41
1:B:2539:ALA:O	1:B:2543:THR:HG23	2.20	0.41
1:B:2907:PRO:HB2	1:B:2910:THR:HG23	2.02	0.41
1:B:2958:GLY:O	1:B:2962:GLN:HG2	2.20	0.41
1:B:3522:LEU:HD23	1:B:3522:LEU:HA	1.91	0.41
1:B:3729:MET:HG2	1:B:3770:LEU:HD13	2.02	0.41
1:B:3752:SER:OG	1:B:3755:GLU:HG3	2.20	0.41
1:B:3850:GLN:O	1:B:3853:ALA:HB3	2.20	0.41
1:B:4554:TYR:HD1	1:B:4557:ARG:NH2	2.19	0.41
1:D:375:LYS:HD2	1:D:376:ALA:H	1.85	0.41
1:D:550:LYS:O	1:D:560:ILE:HD13	2.20	0.41
1:D:1653:LEU:O	1:D:1660:GLN:HB2	2.21	0.41
1:D:2003:GLN:OE1	1:D:3652:MET:HG3	2.20	0.41
1:D:2626:LEU:O	1:D:2629:ASP:N	2.53	0.41
1:D:2867:LEU:HD22	1:D:2928:LYS:NZ	2.34	0.41
1:D:3078:ARG:O	1:D:3081:MET:HG3	2.20	0.41
1:D:3110:LEU:HD23	1:D:3175:LEU:HG	2.02	0.41
1:D:3127:GLN:HA	1:D:3130:THR:HG22	2.02	0.41
1:D:3848:GLU:HB3	1:D:3852:LYS:NZ	2.36	0.41
1:D:4634:GLU:OE1	1:D:4636:THR:OG1	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4973:HIS:O	1:D:4977:THR:HG23	2.21	0.41
1:C:308:HIS:C	1:C:310:LYS:H	2.28	0.41
1:C:722:TRP:CE2	1:C:727:ALA:HB2	2.54	0.41
1:C:2300:SER:HA	1:C:2360:LYS:HE2	2.03	0.41
1:C:2471:SER:HA	1:C:2525:GLY:HA2	2.01	0.41
1:C:3208:PRO:O	1:C:3212:GLU:OE1	2.37	0.41
1:C:3835:LEU:HA	1:C:3838:THR:HG22	2.02	0.41
1:A:580:GLU:CD	1:A:624:ASN:HD21	2.28	0.41
1:A:938:HIS:HB2	1:A:1054:GLU:HB3	2.03	0.41
1:A:1739:THR:HB	1:A:1742:THR:H	1.85	0.41
1:A:1945:TYR:CZ	1:A:1949:GLN:NE2	2.86	0.41
1:A:1977:TYR:HA	1:A:1980:LEU:HB3	2.02	0.41
1:A:2532:ALA:O	1:A:2536:LEU:HG	2.20	0.41
1:A:2539:ALA:O	1:A:2543:THR:HG23	2.20	0.41
1:A:2758:PHE:HD2	1:A:2809:ILE:HG21	1.86	0.41
1:A:2863:SER:HB3	1:A:2924:GLN:NE2	2.35	0.41
1:A:3110:LEU:HD23	1:A:3175:LEU:HG	2.02	0.41
1:A:3729:MET:HG2	1:A:3770:LEU:HD13	2.02	0.41
1:A:3840:SER:OG	1:A:3877:ASP:OD1	2.28	0.41
1:A:4554:TYR:HD1	1:A:4557:ARG:NH2	2.19	0.41
1:A:4801:LEU:HG	1:A:4808:PHE:CD2	2.55	0.41
1:A:4849:TYR:CE2	1:D:4813:LEU:HD12	2.55	0.41
1:A:4885:PHE:CZ	1:A:4889:VAL:HG21	2.55	0.41
1:B:1439:VAL:HB	1:B:1514:LEU:HB3	2.03	0.41
1:B:1692:ALA:HA	1:B:1695:LEU:HD12	2.03	0.41
1:B:2113:SER:OG	1:B:2116:LEU:HB3	2.21	0.41
1:B:2236:LEU:HB3	1:B:2250:MET:HE1	2.01	0.41
1:B:2626:LEU:O	1:B:2629:ASP:N	2.54	0.41
1:B:2785:LEU:HD12	1:B:2785:LEU:HA	1.94	0.41
1:B:3595:ARG:O	1:B:3599:VAL:HG22	2.21	0.41
1:B:3826:VAL:O	1:B:3830:GLN:HG3	2.20	0.41
1:B:4634:GLU:OE1	1:B:4636:THR:OG1	2.37	0.41
1:B:4973:HIS:O	1:B:4977:THR:HG23	2.20	0.41
1:D:106:ALA:HA	1:D:149:THR:HA	2.00	0.41
1:D:563:VAL:O	1:D:567:VAL:HG23	2.20	0.41
1:D:616:SER:O	1:D:620:LEU:HG	2.21	0.41
1:D:1670:TYR:CD2	1:D:1685:LEU:HD11	2.56	0.41
1:D:1699:GLU:OE2	1:D:1810:LYS:HE3	2.21	0.41
1:D:1868:PRO:O	1:D:1872:THR:HG23	2.20	0.41
1:D:2225:PHE:O	1:D:2228:MET:HB3	2.20	0.41
1:D:2532:ALA:O	1:D:2536:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3078:ARG:O	1:D:3082:LYS:HG3	2.21	0.41
1:D:4044:MET:O	1:D:4048:LEU:HG	2.20	0.41
1:C:470:SER:O	1:C:474:ARG:NE	2.50	0.41
1:C:563:VAL:O	1:C:567:VAL:HG23	2.21	0.41
1:C:867:LEU:O	1:C:871:ARG:HB2	2.20	0.41
1:C:1068:ARG:HA	1:C:1071:ARG:HB3	2.02	0.41
1:C:1515:VAL:O	1:C:1532:ASN:HA	2.20	0.41
1:C:1653:LEU:O	1:C:1660:GLN:HB2	2.21	0.41
1:C:1703:LEU:HD23	1:C:1704:PRO:O	2.20	0.41
1:C:1854:PHE:CD2	1:C:1858:ASP:HB3	2.54	0.41
1:C:1943:LEU:HD21	1:C:2098:VAL:HG21	2.03	0.41
1:C:2003:GLN:OE1	1:C:3652:MET:HG3	2.20	0.41
1:C:2172:PRO:O	1:C:2175:GLU:HG2	2.21	0.41
1:C:2816:MET:HG2	1:C:2821:TRP:HE3	1.86	0.41
1:C:2958:GLY:O	1:C:2962:GLN:HG2	2.19	0.41
1:C:2960:LEU:HD21	1:C:3038:MET:HB2	2.01	0.41
1:C:3078:ARG:O	1:C:3081:MET:HG3	2.20	0.41
1:C:3601:ALA:HA	1:C:3604:TYR:CE1	2.54	0.41
1:C:4044:MET:O	1:C:4048:LEU:HG	2.20	0.41
1:A:140:ASP:OD2	1:A:142:THR:OG1	2.31	0.41
1:A:214:VAL:HG22	1:A:341:TYR:CD1	2.50	0.41
1:A:355:LEU:HB2	1:A:378:LEU:HG	2.02	0.41
1:A:873:LYS:HG3	1:A:1049:TYR:OH	2.20	0.41
1:A:1067:SER:O	1:A:1071:ARG:HB3	2.18	0.41
1:A:2228:MET:O	1:A:2231:SER:OG	2.32	0.41
1:A:2453:ILE:O	1:A:2457:LEU:HG	2.20	0.41
1:A:2694:GLU:O	1:A:2697:ARG:HG3	2.20	0.41
1:A:3560:GLN:O	1:A:3562:LYS:NZ	2.54	0.41
1:A:4032:GLU:OE2	1:A:5004:THR:HB	2.21	0.41
1:A:4090:LYS:HB2	1:A:4121:GLU:HB3	2.02	0.41
1:A:4093:PHE:O	1:A:4097:MET:HG2	2.20	0.41
1:A:4241:THR:C	1:A:4245:MET:HE3	2.46	0.41
1:A:4853:VAL:HG22	1:A:4879:MET:HE1	2.02	0.41
1:A:4973:HIS:O	1:A:4977:THR:HG23	2.21	0.41
1:B:219:VAL:HG11	1:B:259:LEU:HB3	2.02	0.41
1:B:1515:VAL:O	1:B:1532:ASN:HA	2.20	0.41
1:B:1653:LEU:O	1:B:1660:GLN:HB2	2.21	0.41
1:B:3872:GLU:HG3	1:B:3874:VAL:H	1.85	0.41
1:D:63:ALA:N	1:D:261:ARG:HH22	2.17	0.41
1:D:461:HIS:HB2	1:D:3707:ARG:NH1	2.36	0.41
1:D:938:HIS:HB2	1:D:1054:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1466:LEU:O	1:D:1469:VAL:HG22	2.21	0.41
1:D:1515:VAL:O	1:D:1532:ASN:HA	2.20	0.41
1:D:1977:TYR:HA	1:D:1980:LEU:HB3	2.02	0.41
1:D:1992:ALA:HB1	1:D:1996:ARG:NH2	2.35	0.41
1:D:2683:PHE:HE2	1:D:2966:TRP:NE1	2.18	0.41
1:D:2758:PHE:HD2	1:D:2809:ILE:HG21	1.86	0.41
1:D:2807:TRP:HB3	1:D:2808:PRO:HD3	2.03	0.41
1:D:3339:ALA:O	1:D:3343:GLN:HG2	2.21	0.41
1:D:3443:ILE:HG12	1:D:3605:HIS:CD2	2.56	0.41
1:D:3560:GLN:O	1:D:3562:LYS:NZ	2.53	0.41
1:D:3719:ASP:H	1:D:3793:MET:CE	2.29	0.41
1:C:355:LEU:HB2	1:C:378:LEU:HG	2.02	0.41
1:C:550:LYS:O	1:C:560:ILE:HD13	2.20	0.41
1:C:790:ARG:NH1	1:C:1624:LEU:O	2.47	0.41
1:C:1868:PRO:O	1:C:1872:THR:HG23	2.20	0.41
1:C:2225:PHE:O	1:C:2228:MET:HB3	2.21	0.41
1:C:2236:LEU:HB3	1:C:2250:MET:HE1	2.01	0.41
1:C:3539:ARG:HH22	1:C:3548:GLU:HG3	1.86	0.41
1:C:4747:SER:HA	1:C:4750:ILE:HG12	2.02	0.41
1:C:4973:HIS:O	1:C:4977:THR:HG23	2.21	0.41
1:A:203:ASN:HA	1:A:204:PRO:HD3	1.83	0.41
1:A:219:VAL:CG1	1:A:259:LEU:HB3	2.51	0.41
1:A:592:LYS:HA	1:A:1580:PHE:CE2	2.56	0.41
1:A:722:TRP:CE2	1:A:727:ALA:HB2	2.54	0.41
1:A:732:SER:N	1:A:735:GLN:OE1	2.53	0.41
1:A:769:GLU:OE2	1:A:1473:THR:HG22	2.21	0.41
1:A:1092:PHE:CZ	1:A:1100:MET:SD	3.13	0.41
1:A:1464:PHE:HZ	1:A:1494:MET:HG3	1.84	0.41
1:A:3508:SER:O	1:A:3511:VAL:HG22	2.20	0.41
1:A:3587:ASP:HA	1:A:3591:LYS:HE3	2.02	0.41
2:H:11:ASP:OD2	2:H:14:THR:OG1	2.31	0.41
1:B:355:LEU:HB2	1:B:378:LEU:HG	2.02	0.41
1:B:1237:TRP:HZ2	1:B:1652:GLU:HA	1.85	0.41
1:B:1773:PRO:HD3	1:B:2156:LEU:HD21	2.02	0.41
1:B:2172:PRO:O	1:B:2175:GLU:HG2	2.21	0.41
1:B:2205:GLU:O	1:B:2209:GLU:HG2	2.18	0.41
1:B:2225:PHE:O	1:B:2228:MET:HB3	2.21	0.41
1:B:3848:GLU:HB3	1:B:3852:LYS:NZ	2.36	0.41
1:B:4072:VAL:HG11	1:B:4129:ALA:HB2	2.02	0.41
1:D:219:VAL:CG1	1:D:259:LEU:HB3	2.51	0.41
1:D:1464:PHE:HZ	1:D:1494:MET:HG3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1703:LEU:HD23	1:D:1704:PRO:O	2.20	0.41
1:D:2300:SER:HA	1:D:2360:LYS:HE2	2.03	0.41
1:D:2638:LYS:O	1:D:2641:LEU:HB2	2.21	0.41
1:D:2880:GLU:HA	1:D:2908:TYR:HE2	1.86	0.41
1:D:4003:LEU:HD21	1:D:4012:LEU:HD23	2.02	0.41
1:C:273:HIS:HB3	1:C:337:PRO:HA	2.02	0.41
1:C:592:LYS:HA	1:C:1580:PHE:CE2	2.56	0.41
1:C:769:GLU:OE2	1:C:1473:THR:HG22	2.21	0.41
1:C:838:HIS:CE1	1:C:1201:HIS:HB2	2.55	0.41
1:C:1106:ARG:HB3	1:C:1108:GLU:OE1	2.21	0.41
1:C:1699:GLU:OE2	1:C:1810:LYS:HE3	2.20	0.41
1:C:1931:LEU:HD23	1:C:1939:MET:HE1	2.01	0.41
1:C:2113:SER:OG	1:C:2116:LEU:HB3	2.20	0.41
1:C:2487:GLN:HE22	1:C:2490:MET:HE1	1.86	0.41
1:C:2757:LYS:HE3	1:C:2757:LYS:HB3	1.84	0.41
1:C:2880:GLU:HA	1:C:2908:TYR:HE2	1.86	0.41
1:A:170:ILE:HD12	1:A:170:ILE:HA	1.96	0.41
1:A:2113:SER:OG	1:A:2116:LEU:HB3	2.20	0.41
1:A:2768:PHE:HE2	1:A:2857:PRO:HG2	1.86	0.41
1:A:2791:LEU:HD23	1:A:2791:LEU:HA	1.88	0.41
1:A:3035:GLU:HA	1:A:3038:MET:HE3	2.02	0.41
1:A:3107:VAL:HB	1:A:3175:LEU:HD11	2.02	0.41
1:A:3554:GLN:HA	1:A:3557:LEU:HD13	2.03	0.41
1:A:3844:LEU:HD11	1:A:3932:ASP:HB3	2.01	0.41
1:B:1106:ARG:HB3	1:B:1108:GLU:OE1	2.21	0.41
1:B:1854:PHE:CD2	1:B:1858:ASP:HB3	2.54	0.41
1:B:2123:LEU:HD12	1:B:2123:LEU:HA	1.92	0.41
1:B:2610:LEU:CD2	1:B:2614:ILE:HD11	2.48	0.41
1:B:3078:ARG:O	1:B:3082:LYS:HG3	2.21	0.41
1:B:3817:LEU:HG	1:B:3821:LYS:HD2	2.02	0.41
1:B:4554:TYR:HA	1:B:4557:ARG:NH2	2.36	0.41
1:B:4760:PRO:HA	1:B:4761:PRO:HD3	1.94	0.41
1:D:732:SER:N	1:D:735:GLN:OE1	2.53	0.41
1:D:769:GLU:OE2	1:D:1473:THR:HG22	2.21	0.41
1:D:1943:LEU:HD21	1:D:2098:VAL:HG21	2.03	0.41
1:D:2610:LEU:CD2	1:D:2614:ILE:HD11	2.48	0.41
1:D:2863:SER:HB3	1:D:2924:GLN:NE2	2.35	0.41
1:D:2951:ILE:O	1:D:2954:ARG:HB2	2.20	0.41
1:D:3465:ASN:C	1:D:3467:MET:H	2.29	0.41
1:D:3725:TYR:HA	1:D:3728:ILE:HD12	2.02	0.41
1:C:110:ARG:NH1	1:C:115:ARG:HE	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:461:HIS:HB2	1:C:3707:ARG:NH1	2.36	0.41
1:C:580:GLU:CD	1:C:624:ASN:HD21	2.28	0.41
1:C:3059:THR:O	1:C:3062:PRO:HD2	2.19	0.41
1:C:3157:ILE:HG23	1:C:3161:VAL:HB	2.01	0.41
1:C:3395:ARG:HH11	1:C:3453:ARG:HH22	1.66	0.41
1:C:3443:ILE:HG12	1:C:3605:HIS:CD2	2.55	0.41
1:C:3752:SER:OG	1:C:3755:GLU:HG3	2.21	0.41
1:C:4090:LYS:HB2	1:C:4121:GLU:HB3	2.02	0.41
1:C:4095:LYS:HA	1:C:4098:ASP:OD2	2.21	0.41
1:A:426:ARG:NE	1:A:504:ALA:O	2.51	0.41
1:A:1992:ALA:O	1:A:1995:THR:OG1	2.34	0.41
1:A:2251:PHE:HA	1:A:2254:LEU:HB2	2.02	0.41
1:A:2487:GLN:NE2	1:A:2490:MET:HE1	2.35	0.41
1:A:3157:ILE:HG23	1:A:3161:VAL:HB	2.01	0.41
1:A:3339:ALA:O	1:A:3343:GLN:HG2	2.21	0.41
1:A:3595:ARG:O	1:A:3599:VAL:HG22	2.21	0.41
1:A:3817:LEU:HG	1:A:3821:LYS:HD2	2.02	0.41
1:A:3826:VAL:O	1:A:3830:GLN:HG3	2.20	0.41
1:A:4020:GLN:O	1:A:4023:MET:HB3	2.20	0.41
2:H:82:TYR:OH	1:D:1782:PHE:O	2.37	0.41
1:B:296:ASP:OD1	1:B:297:GLN:N	2.53	0.41
1:B:592:LYS:HA	1:B:1580:PHE:CE2	2.56	0.41
1:B:873:LYS:HG3	1:B:1049:TYR:OH	2.20	0.41
1:B:1067:SER:O	1:B:1071:ARG:HB3	2.18	0.41
1:B:1670:TYR:CD2	1:B:1685:LEU:HD11	2.56	0.41
1:B:1739:THR:HB	1:B:1742:THR:H	1.84	0.41
1:B:2638:LYS:O	1:B:2641:LEU:HB2	2.21	0.41
1:B:2774:ASN:OD1	1:C:1507:GLY:HA3	2.20	0.41
1:B:2880:GLU:HA	1:B:2908:TYR:HE2	1.86	0.41
1:B:2912:THR:HG22	1:B:2914:LYS:H	1.86	0.41
1:B:2951:ILE:O	1:B:2954:ARG:HB2	2.20	0.41
1:B:3340:VAL:HA	1:B:3343:GLN:HG2	2.02	0.41
1:B:3539:ARG:HH22	1:B:3548:GLU:HG3	1.86	0.41
1:B:3579:LEU:HD12	1:B:3582:ARG:H	1.86	0.41
1:B:4020:GLN:O	1:B:4023:MET:HB3	2.20	0.41
1:B:4090:LYS:HB2	1:B:4121:GLU:HB3	2.02	0.41
1:D:1106:ARG:HB3	1:D:1108:GLU:OE1	2.21	0.41
1:D:1997:GLU:HG3	1:D:2008:MET:HE3	2.03	0.41
1:D:2106:ALA:CB	1:D:3697:PRO:HG3	2.51	0.41
1:D:2136:ARG:O	1:D:2139:PRO:HD2	2.21	0.41
1:D:2487:GLN:NE2	1:D:2490:MET:HE1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2912:THR:HG22	1:D:2914:LYS:H	1.86	0.41
1:D:3330:ASP:OD1	1:D:3331:GLU:N	2.49	0.41
1:D:3752:SER:OG	1:D:3755:GLU:HG3	2.20	0.41
1:D:3873:LYS:HA	1:D:3873:LYS:HD3	1.71	0.41
1:D:4067:LYS:HB3	1:D:4103:PHE:CZ	2.56	0.41
1:D:4158:PRO:HG2	1:D:4159:ARG:HH12	1.86	0.41
1:D:4241:THR:C	1:D:4245:MET:HE3	2.46	0.41
1:C:219:VAL:CG1	1:C:259:LEU:HB3	2.51	0.41
1:C:228:ASP:OD1	1:C:229:GLU:N	2.54	0.41
1:C:1088:TRP:HE3	1:C:1226:PHE:HA	1.86	0.41
1:C:2024:PRO:O	1:C:2028:ARG:HG3	2.21	0.41
1:C:2136:ARG:O	1:C:2139:PRO:HD2	2.21	0.41
1:C:2351:ASN:O	1:C:2355:ARG:HG2	2.21	0.41
1:C:2626:LEU:O	1:C:2629:ASP:N	2.53	0.41
1:C:2766:TRP:O	1:C:2770:LYS:HG2	2.21	0.41
1:C:2768:PHE:HE2	1:C:2857:PRO:HG2	1.86	0.41
1:C:3160:ASP:OD1	1:C:3161:VAL:N	2.54	0.41
1:C:3182:TYR:O	1:C:3185:LYS:HG2	2.21	0.41
1:C:3340:VAL:HA	1:C:3343:GLN:HG2	2.02	0.41
1:C:3560:GLN:O	1:C:3562:LYS:NZ	2.54	0.41
1:C:4554:TYR:HD1	1:C:4557:ARG:NH2	2.19	0.41
1:A:228:ASP:OD1	1:A:229:GLU:N	2.54	0.41
1:A:232:THR:HG22	1:A:233:ILE:O	2.21	0.41
1:A:533:ASN:HD22	1:A:536:ASN:ND2	2.19	0.41
1:A:597:HIS:HB3	1:A:1661:ARG:CZ	2.51	0.41
1:A:786:GLY:N	1:A:1630:CYS:O	2.54	0.41
1:A:923:GLN:NE2	1:A:924:MET:SD	2.94	0.41
1:A:1077:ALA:HB3	1:A:1189:LEU:HD22	2.02	0.41
1:A:1692:ALA:HA	1:A:1695:LEU:HD12	2.02	0.41
1:A:1970:GLN:O	1:A:3642:TYR:HB3	2.21	0.41
1:A:2106:ALA:CB	1:A:3697:PRO:HG3	2.51	0.41
1:A:2182:ILE:C	1:A:2234:ARG:HH22	2.29	0.41
1:A:2225:PHE:O	1:A:2228:MET:HB3	2.21	0.41
1:A:2268[B]:GLN:H	1:A:2268[B]:GLN:HG3	1.49	0.41
1:A:2638:LYS:O	1:A:2641:LEU:HB2	2.21	0.41
1:A:2816:MET:HG2	1:A:2821:TRP:HE3	1.86	0.41
1:A:3401:LEU:HD22	1:A:3451:PHE:CE1	2.56	0.41
1:A:3465:ASN:C	1:A:3467:MET:H	2.29	0.41
1:A:3508:SER:HB3	1:A:3511:VAL:HG22	2.03	0.41
1:A:3713:LYS:HE3	1:A:3717:ASP:OD2	2.21	0.41
1:A:3752:SER:OG	1:A:3755:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3817:LEU:HD13	1:A:3899:PHE:CD1	2.55	0.41
1:A:3835:LEU:HA	1:A:3838:THR:HG22	2.02	0.41
1:A:4001:MET:HE1	1:A:4061:PHE:HB2	2.02	0.41
1:A:4044:MET:O	1:A:4048:LEU:HG	2.20	0.41
1:A:4868:ASP:OD1	1:A:4868:ASP:N	2.54	0.41
1:A:4926:VAL:HG13	1:D:4933:GLN:HG3	2.01	0.41
1:A:5011:TRP:O	1:A:5015:GLN:HG2	2.21	0.41
2:H:40:ARG:HH22	2:H:102:GLU:HG2	1.85	0.41
2:F:73:LYS:HD2	2:F:73:LYS:HA	1.88	0.41
1:B:110:ARG:NH1	1:B:115:ARG:HE	2.19	0.41
1:B:219:VAL:CG1	1:B:259:LEU:HB3	2.51	0.41
1:B:551:LEU:HA	1:B:560:ILE:HG21	2.03	0.41
1:B:563:VAL:O	1:B:567:VAL:HG23	2.21	0.41
1:B:732:SER:N	1:B:735:GLN:OE1	2.53	0.41
1:B:754:SER:HA	1:B:768:PHE:O	2.21	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HB3	2.03	0.41
1:B:923:GLN:NE2	1:B:924:MET:SD	2.94	0.41
1:B:1103:GLY:HA3	1:B:1123:VAL:HG12	2.02	0.41
1:B:1547:LYS:HE2	1:B:1645:ASN:HB2	2.03	0.41
1:B:1868:PRO:O	1:B:1872:THR:HG23	2.20	0.41
1:B:1992:ALA:O	1:B:1995:THR:OG1	2.34	0.41
1:B:1997:GLU:HG3	1:B:2008:MET:HE3	2.03	0.41
1:B:2300:SER:HA	1:B:2360:LYS:HE2	2.03	0.41
1:B:2669:GLU:HG2	1:B:2672:LEU:HD12	2.03	0.41
1:B:2694:GLU:O	1:B:2697:ARG:HG3	2.20	0.41
1:B:2816:MET:HG2	1:B:2821:TRP:HE3	1.86	0.41
1:B:3107:VAL:HB	1:B:3175:LEU:HD11	2.03	0.41
1:B:3173:TYR:O	1:B:3177:THR:HG23	2.21	0.41
1:B:3182:TYR:O	1:B:3185:LYS:HG2	2.21	0.41
1:B:3443:ILE:HG12	1:B:3605:HIS:CD2	2.56	0.41
1:B:3465:ASN:C	1:B:3467:MET:H	2.29	0.41
1:B:3713:LYS:HE3	1:B:3717:ASP:OD2	2.21	0.41
1:B:4189:ARG:NH1	1:B:4189:ARG:CB	2.84	0.41
1:B:4227:GLU:O	1:B:4230:LYS:HB3	2.21	0.41
1:B:4885:PHE:CZ	1:B:4889:VAL:HG21	2.55	0.41
1:B:4892:ARG:NH1	1:C:4898:GLY:H	2.16	0.41
1:D:21:VAL:HG12	1:D:66:CYS:HA	2.02	0.41
1:D:273:HIS:HB3	1:D:337:PRO:HA	2.02	0.41
1:D:475:GLN:HB3	1:D:533:ASN:ND2	2.36	0.41
1:D:522:LEU:HD23	1:D:522:LEU:HA	1.88	0.41
1:D:636:ASN:HA	1:D:1693:GLN:HE21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:786:GLY:N	1:D:1630:CYS:O	2.54	0.41
1:D:1068:ARG:HA	1:D:1071:ARG:HB3	2.02	0.41
1:D:2182:ILE:C	1:D:2234:ARG:HH22	2.29	0.41
1:D:2251:PHE:HE1	1:D:2290:LEU:HD23	1.86	0.41
1:D:2768:PHE:HE2	1:D:2857:PRO:HG2	1.86	0.41
1:D:2802:LYS:HA	1:D:2802:LYS:HD3	1.67	0.41
1:D:3150:HIS:HB3	1:D:3152:PHE:CZ	2.56	0.41
1:D:3508:SER:HB3	1:D:3511:VAL:HG22	2.03	0.41
1:D:3587:ASP:HA	1:D:3591:LYS:HE3	2.02	0.41
1:D:4001:MET:HE1	1:D:4061:PHE:HB2	2.02	0.41
1:D:4090:LYS:HB2	1:D:4121:GLU:HB3	2.02	0.41
1:D:4554:TYR:HA	1:D:4557:ARG:NH2	2.36	0.41
1:D:4747:SER:HA	1:D:4750:ILE:HG12	2.02	0.41
1:D:4865:LYS:HD3	1:D:4865:LYS:HA	1.75	0.41
1:D:4885:PHE:CZ	1:D:4889:VAL:HG21	2.55	0.41
1:D:4930:ALA:HB1	1:C:4937:ILE:HD11	2.02	0.41
1:C:21:VAL:HG12	1:C:66:CYS:HA	2.02	0.41
1:C:54:ASN:OD1	1:C:57:ASN:N	2.32	0.41
1:C:375:LYS:HD2	1:C:376:ALA:H	1.85	0.41
1:C:616:SER:O	1:C:620:LEU:HG	2.21	0.41
1:C:645:ARG:NH2	1:C:826:ILE:HG23	2.34	0.41
1:C:650:VAL:O	1:C:777:PHE:N	2.37	0.41
1:C:938:HIS:HB2	1:C:1054:GLU:HB3	2.03	0.41
1:C:1023:PRO:HB3	1:C:1025:ARG:NH1	2.36	0.41
1:C:1670:TYR:CD2	1:C:1685:LEU:HD11	2.56	0.41
1:C:1773:PRO:HD3	1:C:2156:LEU:HD21	2.02	0.41
1:C:1997:GLU:HG3	1:C:2008:MET:HE3	2.03	0.41
1:C:2106:ALA:CB	1:C:3697:PRO:HG3	2.51	0.41
1:C:2251:PHE:HA	1:C:2254:LEU:HB2	2.02	0.41
1:C:2639:MET:HG2	1:C:2640:PRO:CD	2.35	0.41
1:C:2863:SER:HB3	1:C:2924:GLN:NE2	2.35	0.41
1:C:2974:ILE:HG13	1:C:2975:ALA:N	2.36	0.41
1:C:3078:ARG:O	1:C:3082:LYS:HG3	2.21	0.41
1:C:3150:HIS:HB3	1:C:3152:PHE:CZ	2.56	0.41
1:C:3401:LEU:HD22	1:C:3451:PHE:CE1	2.56	0.41
1:C:3465:ASN:C	1:C:3467:MET:H	2.29	0.41
1:C:3508:SER:O	1:C:3511:VAL:HG22	2.20	0.41
1:C:3850:GLN:O	1:C:3853:ALA:HB3	2.20	0.41
1:A:222:LEU:HD23	1:A:222:LEU:HA	1.86	0.41
1:A:475:GLN:HB3	1:A:533:ASN:ND2	2.36	0.41
1:A:636:ASN:HA	1:A:1693:GLN:HE21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1439:VAL:HB	1:A:1514:LEU:HB3	2.03	0.41
1:A:1466:LEU:O	1:A:1469:VAL:HG22	2.21	0.41
1:A:2694:GLU:HA	1:A:2697:ARG:HG3	2.03	0.41
1:A:3182:TYR:O	1:A:3185:LYS:HG2	2.21	0.41
1:A:4003:LEU:HD21	1:A:4012:LEU:HD23	2.02	0.41
1:A:4189:ARG:NH1	1:A:4189:ARG:CB	2.84	0.41
2:F:40:ARG:HH22	2:F:102:GLU:HG2	1.85	0.41
1:B:107:ILE:N	1:B:148:TRP:O	2.26	0.41
1:B:526:LEU:O	1:B:530:ILE:HG23	2.21	0.41
1:B:636:ASN:HA	1:B:1693:GLN:HE21	1.86	0.41
1:B:879:HIS:CE1	1:B:913:LEU:HD13	2.56	0.41
1:B:1255:TYR:CE1	1:B:1274:HIS:HD2	2.40	0.41
1:B:1924:GLU:OE2	1:B:1924:GLU:N	2.54	0.41
1:B:1970:GLN:O	1:B:3642:TYR:HB3	2.21	0.41
1:B:2101:MET:HG3	1:B:2102:VAL:N	2.36	0.41
1:B:2251:PHE:HA	1:B:2254:LEU:HB2	2.02	0.41
1:B:2299:VAL:HG13	1:B:2360:LYS:NZ	2.36	0.41
1:B:2453:ILE:O	1:B:2457:LEU:HG	2.20	0.41
1:B:2863:SER:HB3	1:B:2924:GLN:NE2	2.35	0.41
1:B:2974:ILE:HG13	1:B:2975:ALA:N	2.36	0.41
1:B:3150:HIS:HB3	1:B:3152:PHE:CZ	2.56	0.41
1:B:4999:ASP:HB3	1:B:5002:GLU:HG2	2.03	0.41
1:D:232:THR:HG22	1:D:233:ILE:O	2.21	0.41
1:D:3066:ASN:HA	1:D:3069:HIS:CD2	2.53	0.41
1:D:3182:TYR:O	1:D:3185:LYS:HG2	2.21	0.41
1:D:3539:ARG:HH22	1:D:3548:GLU:HG3	1.86	0.41
1:D:3554:GLN:HA	1:D:3557:LEU:HD13	2.03	0.41
1:D:4227:GLU:O	1:D:4230:LYS:HB3	2.21	0.41
1:D:4554:TYR:HD1	1:D:4557:ARG:NH2	2.19	0.41
1:C:475:GLN:HB3	1:C:533:ASN:ND2	2.36	0.41
1:C:879:HIS:CE1	1:C:913:LEU:HD13	2.56	0.41
1:C:1547:LYS:HE2	1:C:1645:ASN:HB2	2.03	0.41
1:C:1973:GLN:HE22	1:C:3641:LEU:H	1.68	0.41
1:C:2598:ALA:O	1:C:2602:VAL:HG23	2.21	0.41
1:C:2912:THR:HG22	1:C:2914:LYS:H	1.86	0.41
1:C:3509:LEU:HD23	1:C:3509:LEU:HA	1.90	0.41
1:C:4158:PRO:HG2	1:C:4159:ARG:HH12	1.86	0.41
1:C:4230:LYS:HD2	1:C:4959:PHE:CE1	2.56	0.41
1:C:4876:CYS:HA	1:C:4882:CYS:HB2	2.03	0.41
1:C:4961:CYS:SG	1:C:4978:HIS:NE2	2.94	0.41
1:C:4999:ASP:HB3	1:C:5002:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:375:LYS:HD2	1:A:376:ALA:H	1.85	0.40
1:A:461:HIS:HB2	1:A:3707:ARG:NH1	2.36	0.40
1:A:483:MET:HE2	1:A:483:MET:HB3	1.85	0.40
1:A:1815:LEU:HD12	1:A:1815:LEU:HA	1.91	0.40
1:A:2626:LEU:O	1:A:2629:ASP:N	2.53	0.40
1:A:2710:LEU:HD21	1:A:2714:TYR:HH	1.85	0.40
1:A:3068:LEU:HD23	1:A:3068:LEU:HA	1.91	0.40
1:A:3150:HIS:HB3	1:A:3152:PHE:CZ	2.56	0.40
1:A:3160:ASP:OD1	1:A:3161:VAL:N	2.54	0.40
1:A:3173:TYR:O	1:A:3177:THR:HG23	2.21	0.40
1:A:3539:ARG:HH22	1:A:3548:GLU:HG3	1.86	0.40
1:B:475:GLN:HB3	1:B:533:ASN:ND2	2.36	0.40
1:B:546:TRP:O	1:B:550:LYS:HE2	2.21	0.40
1:B:597:HIS:HB3	1:B:1661:ARG:CZ	2.51	0.40
1:B:1252:HIS:CE1	1:B:1255:TYR:HD2	2.30	0.40
1:B:3209:GLN:OE1	1:B:3209:GLN:N	2.49	0.40
1:B:3339:ALA:O	1:B:3343:GLN:HG2	2.21	0.40
1:B:3725:TYR:HA	1:B:3728:ILE:HD12	2.03	0.40
1:B:3835:LEU:HA	1:B:3838:THR:HG22	2.02	0.40
1:B:4147:LEU:HD23	1:B:4147:LEU:HA	1.89	0.40
1:B:4212:GLU:O	1:B:4216:GLN:HG2	2.21	0.40
1:D:110:ARG:NH1	1:D:115:ARG:HE	2.19	0.40
1:D:203:ASN:HA	1:D:204:PRO:HD3	1.83	0.40
1:D:533:ASN:HD22	1:D:536:ASN:ND2	2.19	0.40
1:D:879:HIS:CE1	1:D:913:LEU:HD13	2.56	0.40
1:D:916:PRO:HA	1:D:919:ASN:HB2	2.04	0.40
1:D:1023:PRO:HB3	1:D:1025:ARG:NH1	2.36	0.40
1:D:1252:HIS:CE1	1:D:1255:TYR:HD2	2.29	0.40
1:D:1973:GLN:HE22	1:D:3641:LEU:H	1.68	0.40
1:D:2024:PRO:O	1:D:2028:ARG:HG3	2.21	0.40
1:D:2463:LEU:HA	1:D:2466:LEU:HD13	2.03	0.40
1:D:2978:GLU:HA	1:D:2981:VAL:HB	2.03	0.40
1:D:3514:LEU:HA	1:D:3517:MET:SD	2.62	0.40
1:D:3840:SER:OG	1:D:3877:ASP:OD1	2.28	0.40
1:C:597:HIS:HB3	1:C:1661:ARG:CZ	2.51	0.40
1:C:868:GLU:O	1:C:871:ARG:HB3	2.21	0.40
1:C:894:GLY:HA3	1:C:903:LEU:HB3	2.03	0.40
1:C:923:GLN:NE2	1:C:924:MET:SD	2.94	0.40
1:C:1924:GLU:OE2	1:C:1924:GLU:N	2.54	0.40
1:C:1960:ALA:O	1:C:1964:ARG:HG3	2.22	0.40
1:C:1992:ALA:HB1	1:C:1996:ARG:NH2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2268[A]:GLN:H	1:C:2268[A]:GLN:HG3	1.51	0.40
1:C:2694:GLU:HA	1:C:2697:ARG:HG3	2.03	0.40
1:C:3986:TRP:HE3	1:C:4047:MET:CE	2.33	0.40
1:C:4212:GLU:O	1:C:4216:GLN:HG2	2.21	0.40
1:C:4661:TYR:HH	1:C:4788:SER:HG	1.60	0.40
1:C:4944:ARG:HE	1:C:4944:ARG:HB3	1.74	0.40
1:C:5011:TRP:O	1:C:5015:GLN:HG2	2.21	0.40
1:A:219:VAL:HG11	1:A:259:LEU:HB3	2.02	0.40
1:A:867:LEU:HD11	1:A:939:VAL:HG11	2.03	0.40
1:A:1088:TRP:HB2	1:A:1153:ILE:HG22	2.02	0.40
1:A:1703:LEU:HD23	1:A:1704:PRO:O	2.20	0.40
1:A:1868:PRO:O	1:A:1872:THR:HG23	2.20	0.40
1:A:2101:MET:HG3	1:A:2102:VAL:N	2.36	0.40
1:A:2294:ASP:HA	1:A:2297:LYS:HZ3	1.87	0.40
1:A:2598:ALA:O	1:A:2602:VAL:HG23	2.21	0.40
1:A:2880:GLU:HA	1:A:2908:TYR:HE2	1.86	0.40
1:A:2974:ILE:HG13	1:A:2975:ALA:N	2.36	0.40
1:A:3443:ILE:HG12	1:A:3605:HIS:CD2	2.55	0.40
1:A:3859:VAL:HA	1:A:3866:ILE:HA	2.03	0.40
1:A:4067:LYS:O	1:A:4071:ILE:HG12	2.22	0.40
1:A:4227:GLU:O	1:A:4230:LYS:HB3	2.21	0.40
1:A:4928:LEU:O	1:A:4931:ILE:N	2.54	0.40
2:G:42:ARG:NH2	1:C:1780:PRO:HB2	2.36	0.40
1:B:616:SER:O	1:B:620:LEU:HG	2.21	0.40
1:B:769:GLU:OE2	1:B:1473:THR:HG22	2.21	0.40
1:B:1943:LEU:HD21	1:B:2098:VAL:HG21	2.03	0.40
1:B:1960:ALA:O	1:B:1964:ARG:HG3	2.22	0.40
1:B:2487:GLN:HE22	1:B:2490:MET:HE1	1.86	0.40
1:B:2768:PHE:HE2	1:B:2857:PRO:HG2	1.86	0.40
1:B:2978:GLU:HA	1:B:2981:VAL:HB	2.03	0.40
1:B:3178:THR:C	1:B:3179:LYS:HD3	2.46	0.40
1:B:3554:GLN:HA	1:B:3557:LEU:HD13	2.03	0.40
1:B:3992:PHE:HB2	1:B:4023:MET:HE1	2.02	0.40
1:B:4247:ILE:O	1:B:4251:ILE:HG23	2.22	0.40
1:D:592:LYS:HA	1:D:1580:PHE:CE2	2.56	0.40
1:D:597:HIS:HB3	1:D:1661:ARG:CZ	2.51	0.40
1:D:1088:TRP:HE3	1:D:1226:PHE:HA	1.86	0.40
1:D:1109:LEU:HD11	1:D:1605:TRP:HZ2	1.87	0.40
1:D:1924:GLU:OE2	1:D:1924:GLU:N	2.54	0.40
1:D:2351:ASN:O	1:D:2355:ARG:HG2	2.21	0.40
1:D:3160:ASP:OD1	1:D:3161:VAL:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3210:LEU:HB3	1:D:3303:PRO:O	2.22	0.40
1:D:3348:ARG:HH12	1:D:3350:ARG:HH12	1.69	0.40
1:D:3817:LEU:HG	1:D:3821:LYS:HD2	2.02	0.40
1:D:3835:LEU:HA	1:D:3838:THR:HG22	2.02	0.40
1:D:3850:GLN:O	1:D:3853:ALA:HB3	2.20	0.40
1:D:3992:PHE:HB2	1:D:4023:MET:HE1	2.02	0.40
1:D:4928:LEU:O	1:D:4931:ILE:N	2.54	0.40
1:C:546:TRP:O	1:C:550:LYS:HE2	2.21	0.40
1:C:1077:ALA:HB3	1:C:1189:LEU:HD22	2.02	0.40
1:C:1088:TRP:HB2	1:C:1153:ILE:HG22	2.03	0.40
1:C:1422:ASP:HA	1:C:1570:LYS:HE2	2.03	0.40
1:C:1466:LEU:O	1:C:1469:VAL:HG22	2.21	0.40
1:C:3539:ARG:NH2	1:C:3548:GLU:HG3	2.36	0.40
1:C:3725:TYR:HA	1:C:3728:ILE:HD12	2.02	0.40
1:A:21:VAL:HG12	1:A:66:CYS:HA	2.02	0.40
1:A:546:TRP:O	1:A:550:LYS:HE2	2.21	0.40
1:A:588:SER:C	1:A:592:LYS:HZ2	2.29	0.40
1:A:754:SER:HA	1:A:768:PHE:O	2.21	0.40
1:A:879:HIS:CE1	1:A:913:LEU:HD13	2.56	0.40
1:A:1106:ARG:HB3	1:A:1108:GLU:OE1	2.21	0.40
1:A:1997:GLU:HG3	1:A:2008:MET:HE3	2.03	0.40
1:A:2258:LEU:HD23	1:A:2258:LEU:HA	1.93	0.40
1:A:2463:LEU:HA	1:A:2466:LEU:HD13	2.03	0.40
1:A:2912:THR:HG22	1:A:2914:LYS:H	1.86	0.40
1:A:2978:GLU:HA	1:A:2981:VAL:HB	2.03	0.40
1:A:3188:PRO:HD3	1:A:3271:GLU:OE2	2.22	0.40
1:A:3340:VAL:HA	1:A:3343:GLN:HG2	2.02	0.40
1:A:3725:TYR:HA	1:A:3728:ILE:HD12	2.03	0.40
1:A:3848:GLU:HB3	1:A:3852:LYS:NZ	2.36	0.40
1:A:3953:LYS:O	1:A:3957:VAL:HG23	2.22	0.40
1:A:4095:LYS:HA	1:A:4098:ASP:OD2	2.21	0.40
1:A:4230:LYS:HD2	1:A:4959:PHE:CE1	2.57	0.40
1:A:4686:LEU:O	1:A:4690:GLU:N	2.55	0.40
1:B:375:LYS:HD2	1:B:376:ALA:H	1.85	0.40
1:B:461:HIS:HB2	1:B:3707:ARG:NH1	2.36	0.40
1:B:2136:ARG:O	1:B:2139:PRO:HD2	2.21	0.40
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.22	0.40
1:B:2758:PHE:HD2	1:B:2809:ILE:HG21	1.86	0.40
1:B:3050:VAL:HG12	1:B:3131:TYR:HE1	1.87	0.40
1:B:3777:GLU:O	1:B:3781:GLN:HG3	2.22	0.40
1:B:3953:LYS:O	1:B:3957:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4003:LEU:HD21	1:B:4012:LEU:HD23	2.02	0.40
1:B:4095:LYS:HA	1:B:4098:ASP:OD2	2.21	0.40
1:B:4947:GLN:HB3	1:B:4951:LYS:HZ3	1.84	0.40
1:B:4958:CYS:CB	1:B:4961:CYS:HB2	2.52	0.40
1:D:182:LEU:HD12	1:D:182:LEU:HA	1.88	0.40
1:D:228:ASP:OD1	1:D:229:GLU:N	2.54	0.40
1:D:526:LEU:O	1:D:530:ILE:HG23	2.21	0.40
1:D:754:SER:HA	1:D:768:PHE:O	2.21	0.40
1:D:1035:ASN:O	1:D:1039:LEU:HG	2.22	0.40
1:D:1103:GLY:HA3	1:D:1123:VAL:HG12	2.02	0.40
1:D:1945:TYR:CZ	1:D:1949:GLN:NE2	2.86	0.40
1:D:2299:VAL:HG13	1:D:2360:LYS:NZ	2.36	0.40
1:D:2578:MET:HE2	1:D:2581:SER:OG	2.21	0.40
1:D:2598:ALA:O	1:D:2602:VAL:HG23	2.21	0.40
1:D:2669:GLU:HG2	1:D:2672:LEU:HD12	2.03	0.40
1:D:3595:ARG:O	1:D:3599:VAL:HG22	2.21	0.40
1:D:4032:GLU:OE2	1:D:5004:THR:HB	2.20	0.40
1:C:732:SER:N	1:C:735:GLN:OE1	2.54	0.40
1:C:1421:ARG:HD3	1:C:1421:ARG:HA	1.92	0.40
1:C:2255:SER:HA	1:C:2258:LEU:HB2	2.04	0.40
1:C:3143:LEU:HD13	1:C:3146:HIS:CE1	2.47	0.40
1:C:3848:GLU:HB3	1:C:3852:LYS:NZ	2.36	0.40
1:C:4067:LYS:HB3	1:C:4103:PHE:CZ	2.56	0.40
1:A:526:LEU:HD12	1:A:526:LEU:HA	1.87	0.40
1:A:526:LEU:O	1:A:530:ILE:HG23	2.21	0.40
1:A:548:VAL:HG21	1:A:582:HIS:CE1	2.57	0.40
1:A:1032:LYS:O	1:A:1036:ARG:NE	2.47	0.40
1:A:1109:LEU:HD11	1:A:1605:TRP:HZ2	1.87	0.40
1:A:1255:TYR:CE1	1:A:1274:HIS:HD2	2.40	0.40
1:A:1515:VAL:O	1:A:1532:ASN:HA	2.20	0.40
1:A:1670:TYR:CD2	1:A:1685:LEU:HD11	2.56	0.40
1:A:2126:ARG:HG2	1:A:2133:GLU:OE2	2.22	0.40
1:A:2251:PHE:HE1	1:A:2290:LEU:HD23	1.86	0.40
1:A:2299:VAL:HG13	1:A:2360:LYS:NZ	2.36	0.40
1:A:2487:GLN:HE22	1:A:2490:MET:HE1	1.86	0.40
1:A:2807:TRP:HB3	1:A:2808:PRO:HD3	2.03	0.40
1:A:3539:ARG:NH2	1:A:3548:GLU:HG3	2.36	0.40
1:A:3579:LEU:HD12	1:A:3582:ARG:H	1.86	0.40
1:A:3777:GLU:O	1:A:3781:GLN:HG3	2.21	0.40
1:A:3944:GLU:CD	1:A:3947:GLY:H	2.28	0.40
1:A:3950:ASN:O	1:A:3953:LYS:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3959:LYS:NZ	1:A:4018:ASP:HB3	2.37	0.40
1:A:4158:PRO:HG2	1:A:4159:ARG:HH12	1.86	0.40
1:A:4554:TYR:HA	1:A:4557:ARG:NH2	2.36	0.40
2:E:40:ARG:HH22	2:E:102:GLU:HG2	1.85	0.40
1:B:588:SER:C	1:B:592:LYS:HZ2	2.29	0.40
1:B:829:TYR:O	1:B:840:VAL:N	2.49	0.40
1:B:867:LEU:HD11	1:B:939:VAL:HG11	2.03	0.40
1:B:955:LEU:HD23	1:B:955:LEU:HA	1.86	0.40
1:B:1294:PRO:HD3	1:B:1643:GLU:HG2	2.04	0.40
1:B:1973:GLN:HE22	1:B:3641:LEU:H	1.68	0.40
1:B:1984:PHE:CD1	1:B:1991:THR:HG21	2.57	0.40
1:B:2578:MET:HE2	1:B:2581:SER:OG	2.21	0.40
1:B:2694:GLU:HA	1:B:2697:ARG:HG3	2.03	0.40
1:B:2763:HIS:HB2	1:B:2802:LYS:HZ3	1.85	0.40
1:B:2766:TRP:O	1:B:2770:LYS:HG2	2.21	0.40
1:B:3210:LEU:HB3	1:B:3303:PRO:O	2.22	0.40
1:B:3366:ARG:NH2	1:B:3367:LYS:HA	2.37	0.40
1:B:3401:LEU:HD22	1:B:3451:PHE:CE1	2.56	0.40
1:B:4141:PHE:O	1:B:4145:VAL:HG23	2.22	0.40
1:B:4241:THR:C	1:B:4245:MET:HE3	2.46	0.40
1:B:4747:SER:HA	1:B:4750:ILE:HG12	2.02	0.40
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	2.03	0.40
1:B:5011:TRP:O	1:B:5015:GLN:HG2	2.21	0.40
1:D:20:VAL:HG23	1:D:202:MET:HE2	2.04	0.40
1:D:592:LYS:HG3	1:D:593:HIS:ND1	2.36	0.40
1:D:835:ARG:HH12	1:D:1095:VAL:HG21	1.87	0.40
1:D:1134:LEU:O	1:D:1134:LEU:HD23	2.22	0.40
1:D:2101:MET:HG3	1:D:2102:VAL:N	2.36	0.40
1:D:2126:ARG:HG2	1:D:2133:GLU:OE2	2.22	0.40
1:D:2264:GLY:HA2	1:D:2267:MET:HG3	2.03	0.40
1:D:2974:ILE:HG13	1:D:2975:ALA:N	2.36	0.40
1:D:4095:LYS:HA	1:D:4098:ASP:OD2	2.21	0.40
1:D:4230:LYS:HD2	1:D:4959:PHE:CE1	2.57	0.40
1:C:20:VAL:HG23	1:C:202:MET:HE2	2.04	0.40
1:C:222:LEU:HD23	1:C:222:LEU:HA	1.86	0.40
1:C:820:ARG:NH1	1:C:821:LEU:HB3	2.37	0.40
1:C:835:ARG:HH12	1:C:1095:VAL:HG21	1.86	0.40
1:C:916:PRO:HA	1:C:919:ASN:HB2	2.04	0.40
1:C:1035:ASN:O	1:C:1039:LEU:HG	2.22	0.40
1:C:1109:LEU:HD11	1:C:1605:TRP:HZ2	1.87	0.40
1:C:1255:TYR:CE1	1:C:1274:HIS:HD2	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2299:VAL:HG13	1:C:2360:LYS:NZ	2.36	0.40
1:C:2480:GLY:O	1:C:2484:ALA:N	2.47	0.40
1:C:2758:PHE:HD2	1:C:2809:ILE:HG21	1.86	0.40
1:C:2884:ASN:OD1	1:C:2888:ARG:NH1	2.55	0.40
1:C:3078:ARG:NH2	1:C:3151:GLN:O	2.54	0.40
1:C:3084:GLY:HA3	1:C:3089:LYS:NZ	2.37	0.40
1:C:3103:ILE:HD12	1:C:3103:ILE:HA	1.99	0.40
1:C:3123:LYS:HZ2	1:C:3126:GLY:N	2.19	0.40
1:C:3339:ALA:O	1:C:3343:GLN:HG2	2.21	0.40
1:C:4001:MET:HE1	1:C:4061:PHE:HB2	2.02	0.40
1:C:4003:LEU:HD21	1:C:4012:LEU:HD23	2.02	0.40
1:A:156:GLN:NE2	1:D:385:ASP:OD1	2.54	0.40
1:A:1422:ASP:HA	1:A:1570:LYS:HE2	2.03	0.40
1:A:1501:VAL:HB	1:A:1508:ARG:NH2	2.30	0.40
1:A:1943:LEU:HD21	1:A:2098:VAL:HG21	2.03	0.40
1:A:2351:ASN:O	1:A:2355:ARG:HG2	2.21	0.40
1:A:3178:THR:C	1:A:3179:LYS:HD3	2.46	0.40
1:A:3842:LEU:HD23	1:A:3875:MET:HE3	2.04	0.40
1:A:4716:TRP:CZ2	6:A:5304:PNX:HAI2	2.57	0.40
1:B:277:GLY:HA2	1:B:315:CYS:HB2	2.04	0.40
1:B:533:ASN:HD22	1:B:536:ASN:ND2	2.19	0.40
1:B:856:VAL:HB	1:B:991:ASN:ND2	2.35	0.40
1:B:1109:LEU:HD11	1:B:1605:TRP:HZ2	1.87	0.40
1:B:2765:LYS:O	1:B:2768:PHE:HB2	2.22	0.40
1:B:2769:ASP:O	1:B:2772:GLN:HB3	2.22	0.40
1:B:2884:ASN:OD1	1:B:2888:ARG:NH1	2.55	0.40
1:B:3296:LEU:HB3	1:B:3297:PRO:HD3	2.04	0.40
1:B:3508:SER:HB3	1:B:3511:VAL:HG22	2.03	0.40
1:B:3721:LEU:HD12	1:B:3721:LEU:HA	1.83	0.40
1:B:3859:VAL:HA	1:B:3866:ILE:HA	2.03	0.40
1:B:4067:LYS:HB3	1:B:4103:PHE:CZ	2.56	0.40
1:B:4151:SER:HA	1:B:4160:LEU:HD21	2.04	0.40
1:B:4658:ILE:CG1	1:B:4796:MET:HE3	2.52	0.40
1:B:4686:LEU:O	1:B:4690:GLU:N	2.55	0.40
1:B:4711:PHE:O	1:B:4713:SER:N	2.53	0.40
1:B:4716:TRP:CZ2	6:B:5304:PNX:HAI2	2.57	0.40
1:B:4928:LEU:O	1:B:4931:ILE:N	2.54	0.40
1:D:548:VAL:HG21	1:D:582:HIS:CE1	2.57	0.40
1:D:645:ARG:NH2	1:D:826:ILE:HG23	2.34	0.40
1:D:1419:ASP:HB3	1:D:1420:ASN:H	1.67	0.40
1:D:2113:SER:OG	1:D:2116:LEU:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2369[A]:ARG:HE	1:D:2369[A]:ARG:HB2	1.69	0.40
1:D:2694:GLU:HA	1:D:2697:ARG:HG3	2.03	0.40
1:D:2964:LEU:HD23	1:D:2964:LEU:HA	1.97	0.40
1:D:3188:PRO:HD3	1:D:3271:GLU:OE2	2.22	0.40
1:D:3825:GLU:CD	1:D:3827:GLY:H	2.30	0.40
1:C:39:ALA:H	1:C:111:HIS:CD2	2.40	0.40
1:C:2123:LEU:HD12	1:C:2123:LEU:HA	1.93	0.40
1:C:2309:SER:HA	1:C:2324:ASN:HB2	2.04	0.40
1:C:2578:MET:HE2	1:C:2581:SER:OG	2.21	0.40
1:C:2978:GLU:HA	1:C:2981:VAL:HB	2.03	0.40
1:C:3296:LEU:HB3	1:C:3297:PRO:HD3	2.04	0.40
1:C:3427:PRO:HB3	1:C:3432:GLU:OE2	2.21	0.40
1:C:3514:LEU:HA	1:C:3517:MET:SD	2.62	0.40
1:C:3554:GLN:HA	1:C:3557:LEU:HD13	2.03	0.40
1:C:3980:LEU:HD21	1:C:3985:LEU:HD22	2.04	0.40
1:C:4017:LEU:HD13	1:C:4136:ALA:HA	2.04	0.40
1:C:4032:GLU:OE2	1:C:5004:THR:HB	2.21	0.40
1:C:4241:THR:C	1:C:4245:MET:HE3	2.46	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4385/5037 (87%)	4260 (97%)	121 (3%)	4 (0%)	48	81
1	B	4385/5037 (87%)	4260 (97%)	121 (3%)	4 (0%)	48	81
1	C	4385/5037 (87%)	4260 (97%)	121 (3%)	4 (0%)	48	81
1	D	4385/5037 (87%)	4261 (97%)	120 (3%)	4 (0%)	48	81
2	E	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
2	F	105/108 (97%)	102 (97%)	3 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	G	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
2	H	105/108 (97%)	102 (97%)	3 (3%)	0	100	100
All	All	17960/20580 (87%)	17449 (97%)	495 (3%)	16 (0%)	50	81

All (16) Ramachandran outliers are listed below:

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

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3836/4276 (90%)	3795 (99%)	41 (1%)	70	80
1	B	3836/4276 (90%)	3795 (99%)	41 (1%)	70	80
1	C	3836/4276 (90%)	3795 (99%)	41 (1%)	70	80
1	D	3836/4276 (90%)	3795 (99%)	41 (1%)	70	80
2	E	89/90 (99%)	87 (98%)	2 (2%)	47	65

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	F	89/90 (99%)	87 (98%)	2 (2%)	47	65
2	G	89/90 (99%)	87 (98%)	2 (2%)	47	65
2	H	89/90 (99%)	87 (98%)	2 (2%)	47	65
All	All	15700/17464 (90%)	15528 (99%)	172 (1%)	74	80

All (172) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1071	ARG
1	A	1231[A]	GLN
1	A	1231[B]	GLN
1	A	1260	MET
1	A	1462	MET
1	A	1527	MET
1	A	1573	MET
1	A	1601	MET
1	A	1981	MET
1	A	2101	MET
1	A	2120	MET
1	A	2153	MET
1	A	2268[A]	GLN
1	A	2268[B]	GLN
1	A	2369[A]	ARG
1	A	2369[B]	ARG
1	A	2490	MET
1	A	2578	MET
1	A	2584[A]	HIS
1	A	2584[B]	HIS
1	A	2612[A]	ARG
1	A	2612[B]	ARG
1	A	2874	MET
1	A	2876	GLU
1	A	2914	LYS
1	A	2932	MET
1	A	2937	VAL
1	A	3201	MET
1	A	3335	MET
1	A	3422[A]	HIS
1	A	3422[B]	HIS
1	A	3467	MET
1	A	3517	MET

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Mol	Chain	Res	Type
1	A	4189	ARG
1	A	4231	MET
1	A	4627	MET
1	A	4796	MET
1	A	4865	LYS
1	A	4880	MET
1	A	4887	MET
1	A	4989	MET
2	E	52	LYS
2	E	104	LEU
2	H	52	LYS
2	H	104	LEU
2	G	52	LYS
2	G	104	LEU
2	F	52	LYS
2	F	104	LEU
1	B	1071	ARG
1	B	1231[A]	GLN
1	B	1231[B]	GLN
1	B	1260	MET
1	B	1462	MET
1	B	1527	MET
1	B	1573	MET
1	B	1601	MET
1	B	1981	MET
1	B	2101	MET
1	B	2120	MET
1	B	2153	MET
1	B	2268[A]	GLN
1	B	2268[B]	GLN
1	B	2369[A]	ARG
1	B	2369[B]	ARG
1	B	2490	MET
1	B	2578	MET
1	B	2584[A]	HIS
1	B	2584[B]	HIS
1	B	2612[A]	ARG
1	B	2612[B]	ARG
1	B	2874	MET
1	B	2876	GLU
1	B	2914	LYS
1	B	2932	MET

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Mol	Chain	Res	Type
1	B	2937	VAL
1	B	3201	MET
1	B	3335	MET
1	B	3422[A]	HIS
1	B	3422[B]	HIS
1	B	3467	MET
1	B	3517	MET
1	B	4189	ARG
1	B	4231	MET
1	B	4627	MET
1	B	4796	MET
1	B	4865	LYS
1	B	4880	MET
1	B	4887	MET
1	B	4989	MET
1	D	1071	ARG
1	D	1231[A]	GLN
1	D	1231[B]	GLN
1	D	1260	MET
1	D	1462	MET
1	D	1527	MET
1	D	1573	MET
1	D	1601	MET
1	D	1981	MET
1	D	2101	MET
1	D	2120	MET
1	D	2153	MET
1	D	2268[A]	GLN
1	D	2268[B]	GLN
1	D	2369[A]	ARG
1	D	2369[B]	ARG
1	D	2490	MET
1	D	2578	MET
1	D	2584[A]	HIS
1	D	2584[B]	HIS
1	D	2612[A]	ARG
1	D	2612[B]	ARG
1	D	2874	MET
1	D	2876	GLU
1	D	2914	LYS
1	D	2932	MET
1	D	2937	VAL

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Mol	Chain	Res	Type
1	D	3201	MET
1	D	3335	MET
1	D	3422[A]	HIS
1	D	3422[B]	HIS
1	D	3467	MET
1	D	3517	MET
1	D	4189	ARG
1	D	4231	MET
1	D	4627	MET
1	D	4796	MET
1	D	4865	LYS
1	D	4880	MET
1	D	4887	MET
1	D	4989	MET
1	C	1071	ARG
1	C	1231[A]	GLN
1	C	1231[B]	GLN
1	C	1260	MET
1	C	1462	MET
1	C	1527	MET
1	C	1573	MET
1	C	1601	MET
1	C	1981	MET
1	C	2101	MET
1	C	2120	MET
1	C	2153	MET
1	C	2268[A]	GLN
1	C	2268[B]	GLN
1	C	2369[A]	ARG
1	C	2369[B]	ARG
1	C	2490	MET
1	C	2578	MET
1	C	2584[A]	HIS
1	C	2584[B]	HIS
1	C	2612[A]	ARG
1	C	2612[B]	ARG
1	C	2874	MET
1	C	2876	GLU
1	C	2914	LYS
1	C	2932	MET
1	C	2937	VAL
1	C	3201	MET

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Mol	Chain	Res	Type
1	C	3335	MET
1	C	3422[A]	HIS
1	C	3422[B]	HIS
1	C	3467	MET
1	C	3517	MET
1	C	4189	ARG
1	C	4231	MET
1	C	4627	MET
1	C	4796	MET
1	C	4865	LYS
1	C	4880	MET
1	C	4887	MET
1	C	4989	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (190) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	255	HIS
1	A	349	GLN
1	A	446	GLN
1	A	533	ASN
1	A	576	ASN
1	A	597	HIS
1	A	639	ASN
1	A	705	ASN
1	A	812	HIS
1	A	860	GLN
1	A	994	ASN
1	A	1252	HIS
1	A	1296	GLN
1	A	1532	ASN
1	A	1541	GLN
1	A	1559	GLN
1	A	1629	GLN
1	A	1660	GLN
1	A	1693	GLN
1	A	1760	HIS
1	A	1938	GLN
1	A	2029	GLN
1	A	2092	GLN
1	A	2107	GLN
1	A	2184	ASN

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Mol	Chain	Res	Type
1	A	2187	ASN
1	A	2196	ASN
1	A	2213	ASN
1	A	2260	ASN
1	A	2763	HIS
1	A	2971	GLN
1	A	3145	GLN
1	A	3211	ASN
1	A	3465	ASN
1	A	3611	HIS
1	A	3734	HIS
1	A	3761	GLN
1	A	3882	GLN
1	A	3927	GLN
1	A	4043	GLN
1	A	4246	GLN
1	A	4547	GLN
1	A	4553	ASN
1	A	4776	GLN
1	A	4806	ASN
1	A	5003	HIS
2	E	53	GLN
2	H	53	GLN
2	G	53	GLN
2	F	53	GLN
1	B	255	HIS
1	B	349	GLN
1	B	379	HIS
1	B	446	GLN
1	B	460	GLN
1	B	533	ASN
1	B	576	ASN
1	B	597	HIS
1	B	639	ASN
1	B	705	ASN
1	B	812	HIS
1	B	994	ASN
1	B	1252	HIS
1	B	1296	GLN
1	B	1532	ASN
1	B	1541	GLN
1	B	1559	GLN

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Mol	Chain	Res	Type
1	B	1629	GLN
1	B	1660	GLN
1	B	1693	GLN
1	B	1938	GLN
1	B	2029	GLN
1	B	2092	GLN
1	B	2107	GLN
1	B	2196	ASN
1	B	2213	ASN
1	B	2260	ASN
1	B	2520	HIS
1	B	2763	HIS
1	B	2971	GLN
1	B	3145	GLN
1	B	3211	ASN
1	B	3450	ASN
1	B	3465	ASN
1	B	3611	HIS
1	B	3734	HIS
1	B	3761	GLN
1	B	3882	GLN
1	B	3927	GLN
1	B	4043	GLN
1	B	4216	GLN
1	B	4246	GLN
1	B	4547	GLN
1	B	4553	ASN
1	B	4776	GLN
1	B	4806	ASN
1	B	4832	HIS
1	B	5003	HIS
1	D	255	HIS
1	D	379	HIS
1	D	446	GLN
1	D	533	ASN
1	D	576	ASN
1	D	597	HIS
1	D	639	ASN
1	D	705	ASN
1	D	812	HIS
1	D	860	GLN
1	D	1296	GLN

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Mol	Chain	Res	Type
1	D	1532	ASN
1	D	1541	GLN
1	D	1559	GLN
1	D	1629	GLN
1	D	1660	GLN
1	D	1938	GLN
1	D	2029	GLN
1	D	2092	GLN
1	D	2107	GLN
1	D	2184	ASN
1	D	2187	ASN
1	D	2196	ASN
1	D	2213	ASN
1	D	2260	ASN
1	D	2487	GLN
1	D	2763	HIS
1	D	2971	GLN
1	D	3145	GLN
1	D	3146	HIS
1	D	3211	ASN
1	D	3419	ASN
1	D	3465	ASN
1	D	3611	HIS
1	D	3734	HIS
1	D	3761	GLN
1	D	3882	GLN
1	D	3927	GLN
1	D	4043	GLN
1	D	4246	GLN
1	D	4547	GLN
1	D	4553	ASN
1	D	4776	GLN
1	D	4806	ASN
1	D	5003	HIS
1	C	255	HIS
1	C	349	GLN
1	C	379	HIS
1	C	446	GLN
1	C	460	GLN
1	C	533	ASN
1	C	576	ASN
1	C	597	HIS

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Mol	Chain	Res	Type
1	C	639	ASN
1	C	705	ASN
1	C	812	HIS
1	C	994	ASN
1	C	1252	HIS
1	C	1296	GLN
1	C	1532	ASN
1	C	1541	GLN
1	C	1559	GLN
1	C	1629	GLN
1	C	1660	GLN
1	C	1693	GLN
1	C	1938	GLN
1	C	2029	GLN
1	C	2107	GLN
1	C	2187	ASN
1	C	2196	ASN
1	C	2213	ASN
1	C	2260	ASN
1	C	2487	GLN
1	C	2763	HIS
1	C	2971	GLN
1	C	3145	GLN
1	C	3146	HIS
1	C	3211	ASN
1	C	3465	ASN
1	C	3611	HIS
1	C	3734	HIS
1	C	3761	GLN
1	C	3882	GLN
1	C	3927	GLN
1	C	3960	GLN
1	C	4043	GLN
1	C	4246	GLN
1	C	4547	GLN
1	C	4553	ASN
1	C	4776	GLN
1	C	4806	ASN
1	C	5003	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
3	ATP	A	5301	-	28,33,33	0.62	0	34,52,52	0.95	2 (5%)
3	ATP	D	5301	-	28,33,33	0.62	0	34,52,52	0.94	2 (5%)
3	ATP	C	5301	-	28,33,33	0.61	0	34,52,52	0.95	2 (5%)
6	PNX	A	5304	-	13,21,21	1.36	2 (15%)	13,30,30	1.06	1 (7%)
6	PNX	D	5304	-	13,21,21	1.36	2 (15%)	13,30,30	1.07	1 (7%)
6	PNX	C	5304	-	13,21,21	1.35	2 (15%)	13,30,30	1.06	1 (7%)
3	ATP	B	5301	-	28,33,33	0.63	0	34,52,52	0.95	2 (5%)
6	PNX	B	5304	-	13,21,21	1.37	2 (15%)	13,30,30	1.07	1 (7%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ATP	A	5301	-	-	4/18/38/38	0/3/3/3
3	ATP	D	5301	-	-	4/18/38/38	0/3/3/3
3	ATP	C	5301	-	-	4/18/38/38	0/3/3/3
6	PNX	A	5304	-	-	4/7/7/7	0/2/2/2
6	PNX	D	5304	-	-	4/7/7/7	0/2/2/2
6	PNX	C	5304	-	-	4/7/7/7	0/2/2/2
3	ATP	B	5301	-	-	4/18/38/38	0/3/3/3
6	PNX	B	5304	-	-	4/7/7/7	0/2/2/2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	5304	PNX	C6-N1	-3.10	1.32	1.38
6	A	5304	PNX	C6-N1	-3.08	1.33	1.38
6	D	5304	PNX	C6-N1	-3.06	1.33	1.38
6	C	5304	PNX	C6-N1	-3.04	1.33	1.38
6	D	5304	PNX	O6-C6	-2.41	1.18	1.24
6	C	5304	PNX	O6-C6	-2.40	1.18	1.24
6	A	5304	PNX	O6-C6	-2.38	1.18	1.24
6	B	5304	PNX	O6-C6	-2.36	1.19	1.24

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	5301	ATP	C4'-O4'-C1'	-4.29	106.00	109.92
3	A	5301	ATP	C4'-O4'-C1'	-4.26	106.02	109.92
3	C	5301	ATP	C4'-O4'-C1'	-4.24	106.04	109.92
3	D	5301	ATP	C4'-O4'-C1'	-4.24	106.05	109.92
6	B	5304	PNX	C4-C5-C6	-2.69	117.91	119.96
6	D	5304	PNX	C4-C5-C6	-2.67	117.92	119.96
6	A	5304	PNX	C4-C5-C6	-2.66	117.93	119.96
6	C	5304	PNX	C4-C5-C6	-2.63	117.95	119.96
3	C	5301	ATP	C5-C6-N6	2.30	123.81	120.31
3	A	5301	ATP	C5-C6-N6	2.27	123.77	120.31
3	D	5301	ATP	C5-C6-N6	2.26	123.75	120.31
3	B	5301	ATP	C5-C6-N6	2.24	123.73	120.31

There are no chirality outliers.

All (32) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	5304	PNX	CAI-CAH-CAJ-CAM
6	B	5304	PNX	CAI-CAH-CAJ-CAM
6	D	5304	PNX	CAI-CAH-CAJ-CAM
6	C	5304	PNX	CAI-CAH-CAJ-CAM
6	A	5304	PNX	CAH-CAJ-CAM-OAD
6	B	5304	PNX	CAH-CAJ-CAM-OAD
6	D	5304	PNX	CAH-CAJ-CAM-OAD
6	C	5304	PNX	CAH-CAJ-CAM-OAD
6	A	5304	PNX	CAH-CAJ-CAM-CAA
6	B	5304	PNX	CAH-CAJ-CAM-CAA
6	D	5304	PNX	CAH-CAJ-CAM-CAA
6	C	5304	PNX	CAH-CAJ-CAM-CAA
6	D	5304	PNX	CAJ-CAH-CAI-CAK
6	C	5304	PNX	CAJ-CAH-CAI-CAK
6	B	5304	PNX	CAJ-CAH-CAI-CAK
6	A	5304	PNX	CAJ-CAH-CAI-CAK
3	A	5301	ATP	PG-O3B-PB-O3A
3	B	5301	ATP	PG-O3B-PB-O3A
3	D	5301	ATP	PG-O3B-PB-O3A
3	C	5301	ATP	PG-O3B-PB-O3A
3	A	5301	ATP	PB-O3A-PA-O2A
3	B	5301	ATP	PB-O3A-PA-O2A
3	D	5301	ATP	PB-O3A-PA-O2A
3	C	5301	ATP	PB-O3A-PA-O2A
3	A	5301	ATP	PG-O3B-PB-O1B
3	B	5301	ATP	PG-O3B-PB-O1B
3	D	5301	ATP	PG-O3B-PB-O1B
3	C	5301	ATP	PG-O3B-PB-O1B
3	A	5301	ATP	PB-O3A-PA-O1A
3	B	5301	ATP	PB-O3A-PA-O1A
3	D	5301	ATP	PB-O3A-PA-O1A
3	C	5301	ATP	PB-O3A-PA-O1A

There are no ring outliers.

8 monomers are involved in 10 short contacts:

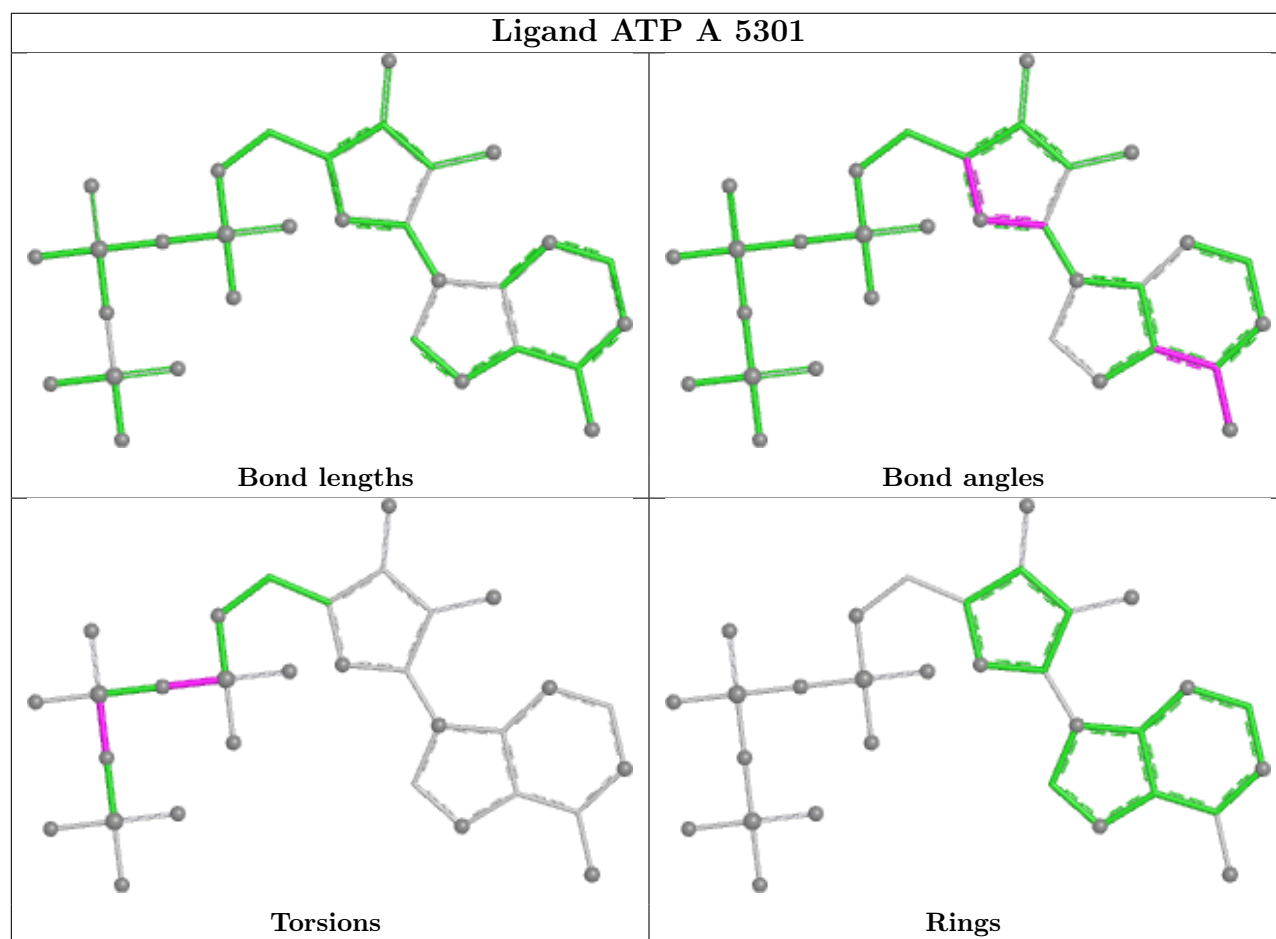
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	5301	ATP	1	0
3	D	5301	ATP	1	0
3	C	5301	ATP	1	0
6	A	5304	PNX	2	0
6	D	5304	PNX	1	0
6	C	5304	PNX	1	0

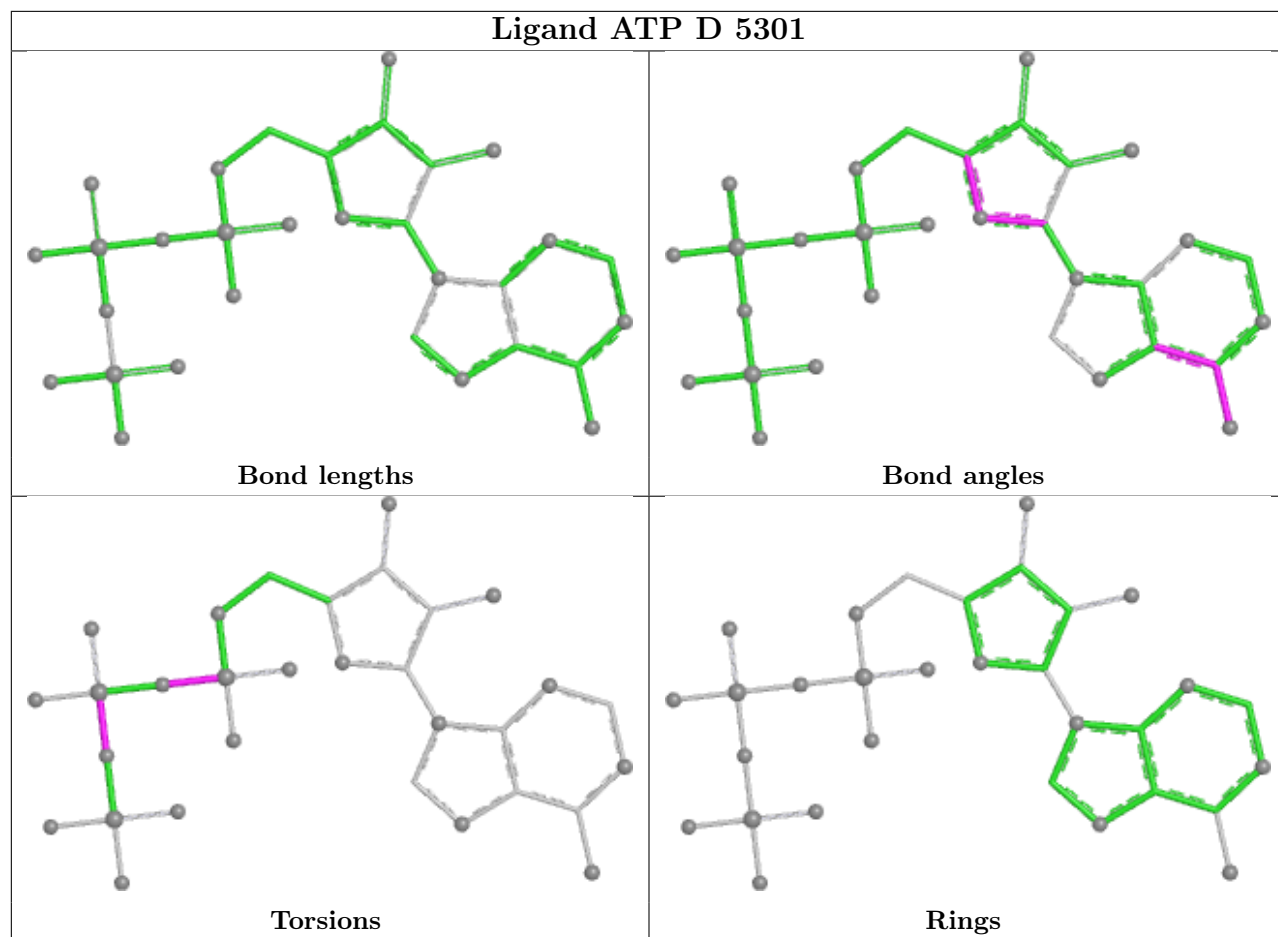
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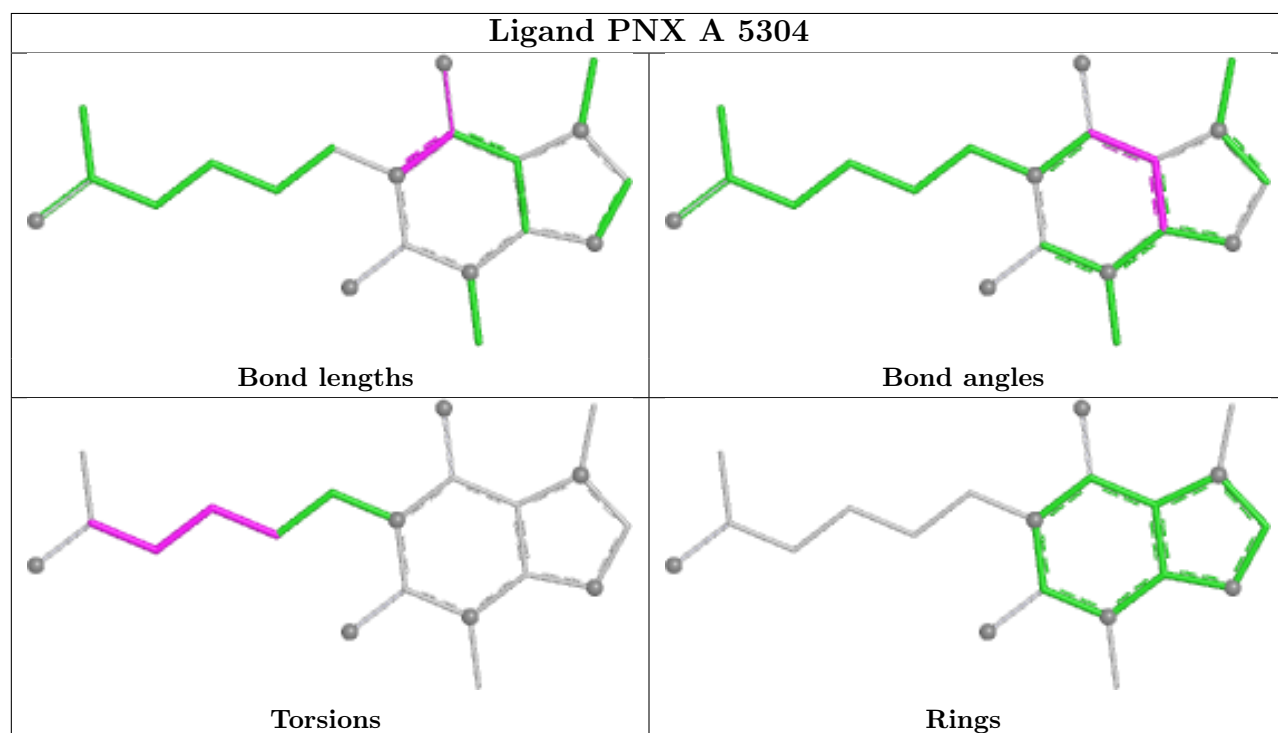
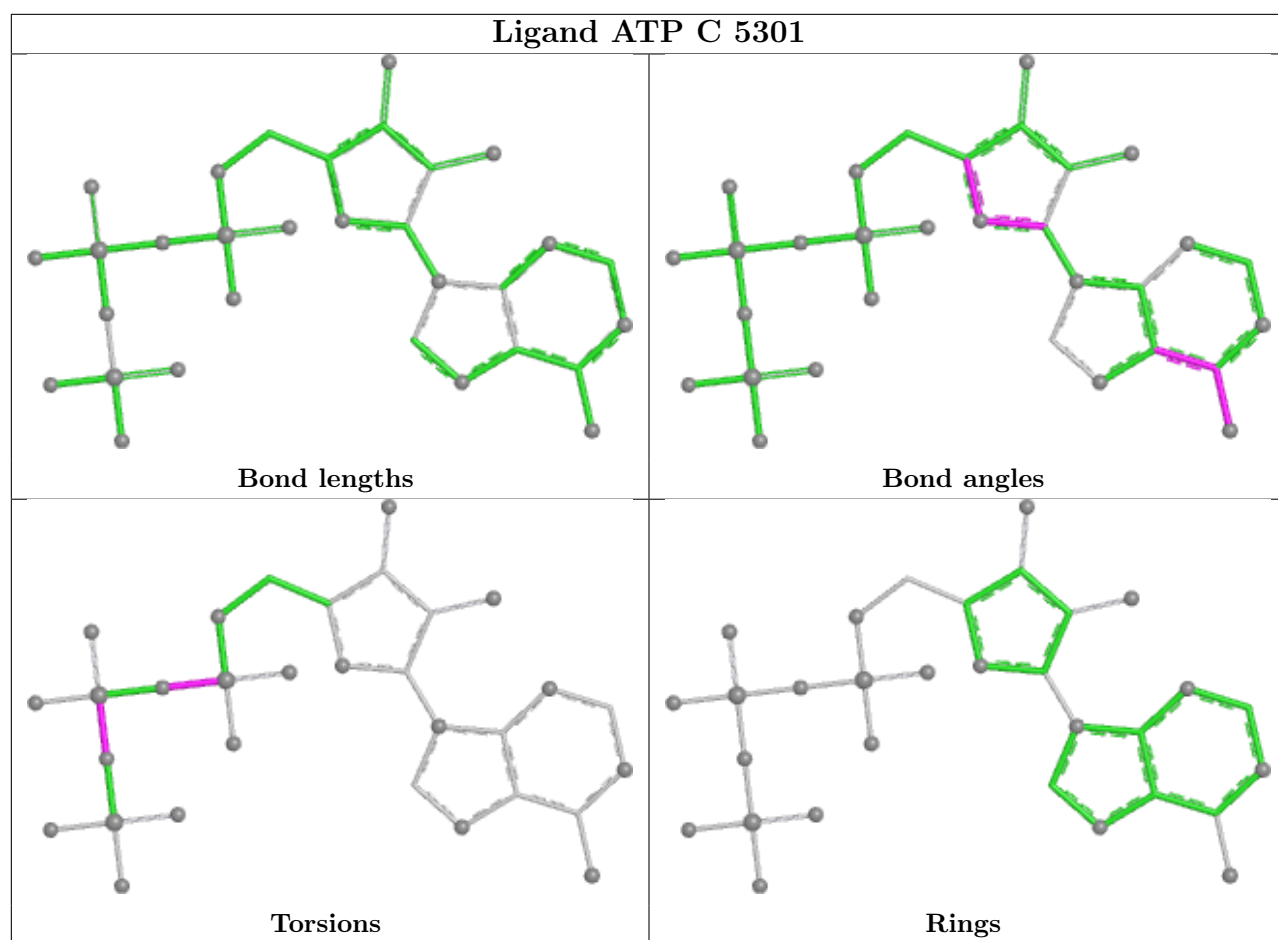
Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	5301	ATP	1	0
6	B	5304	PNX	2	0

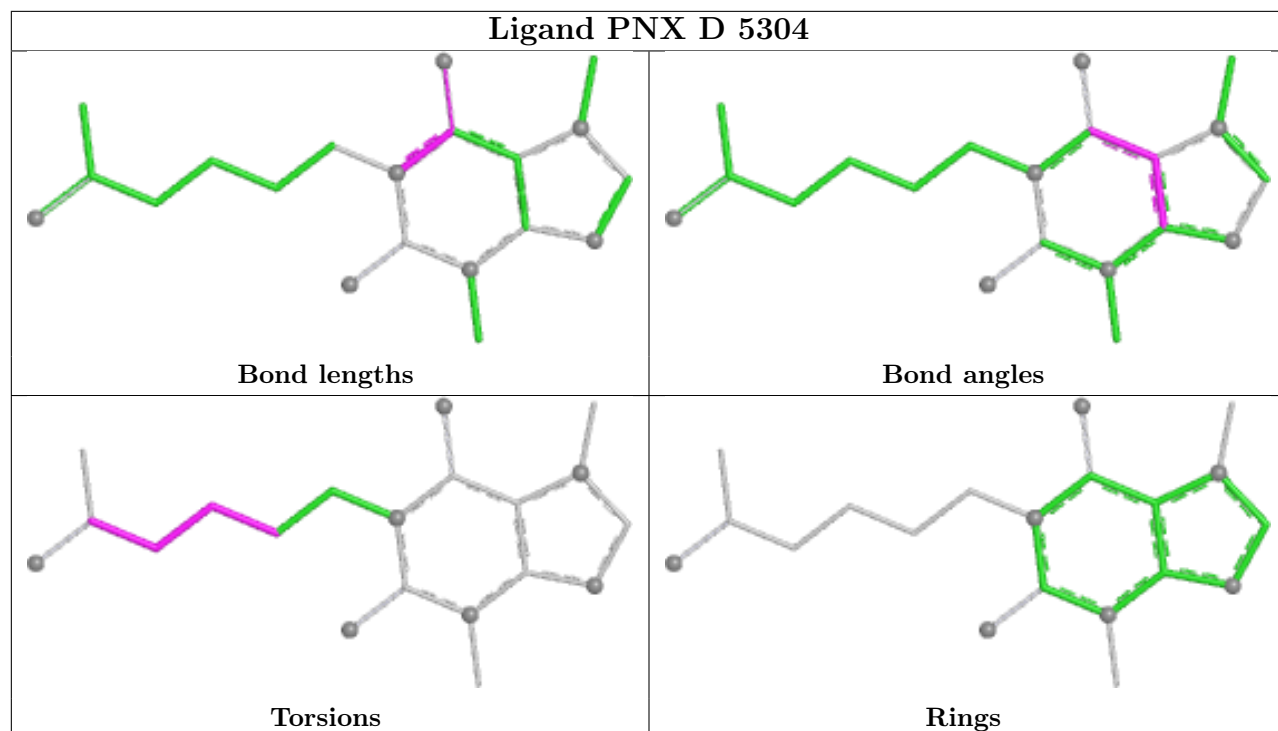
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



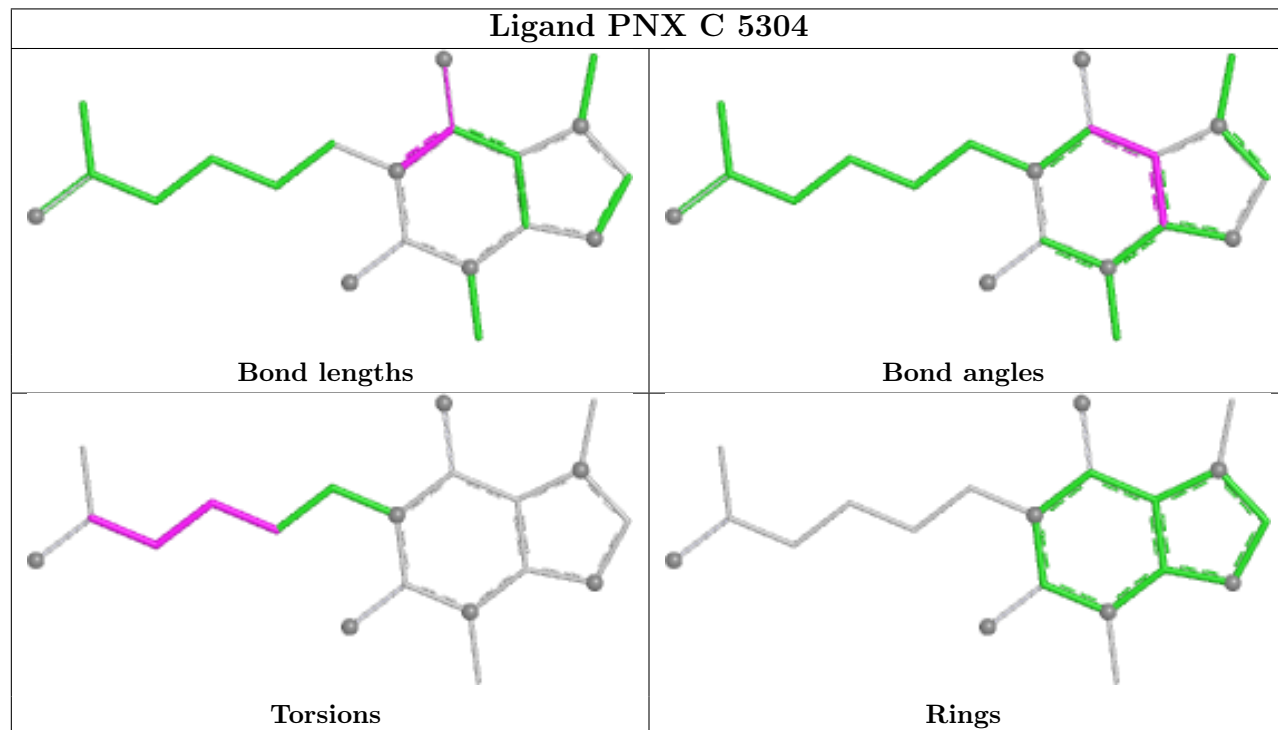


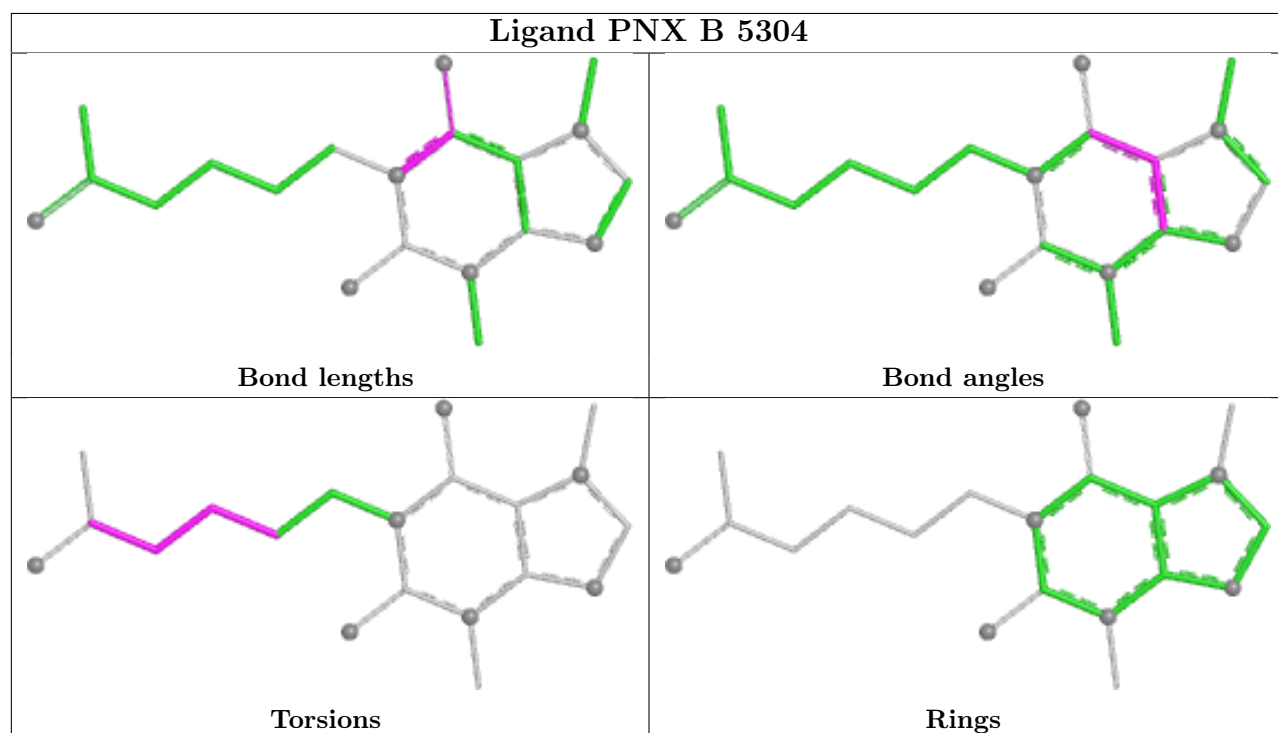
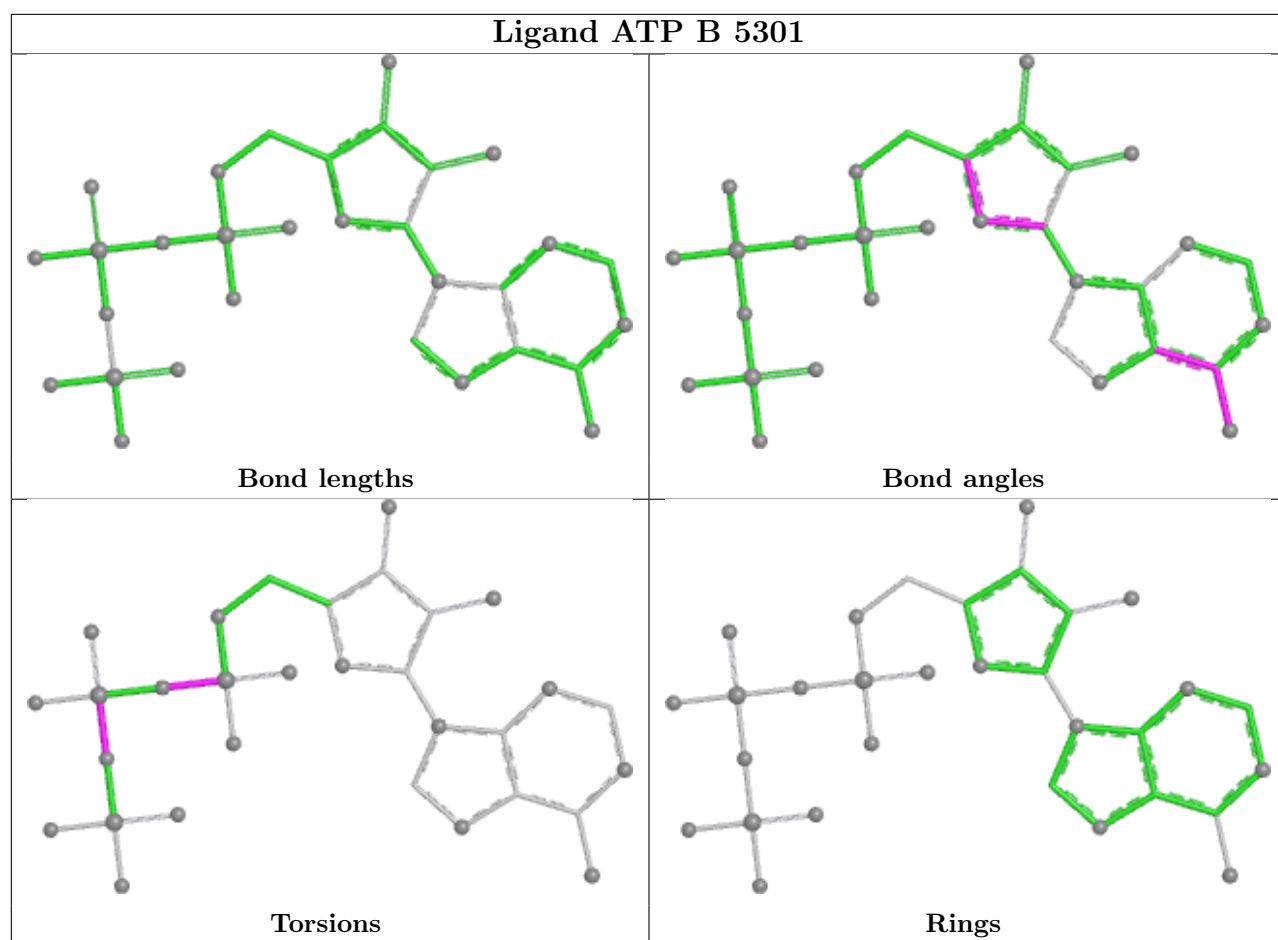


Ligand PNX D 5304



Ligand PNX C 5304





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

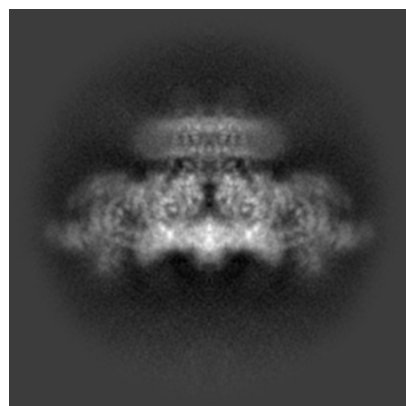
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47386. These allow visual inspection of the internal detail of the map and identification of artifacts.

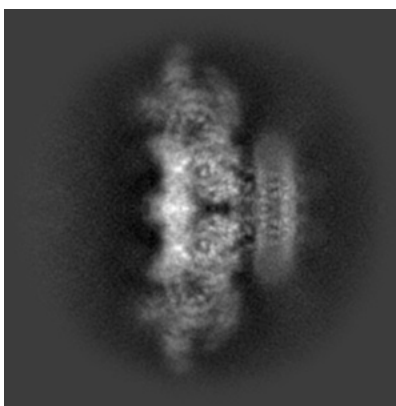
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

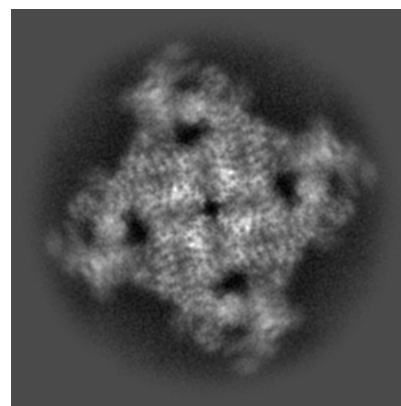
6.1.1 Primary map



X

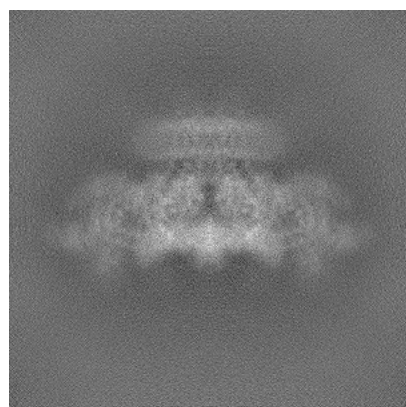


Y

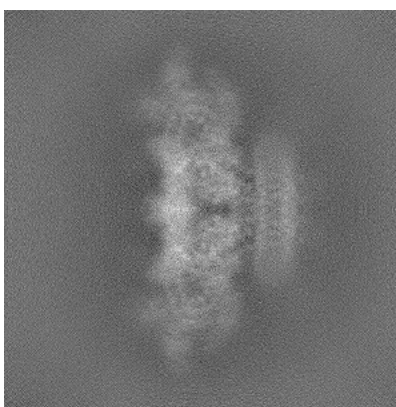


Z

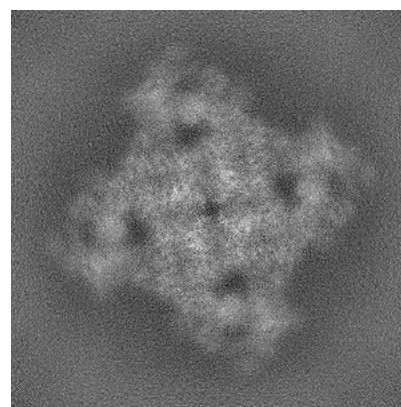
6.1.2 Raw map



X



Y

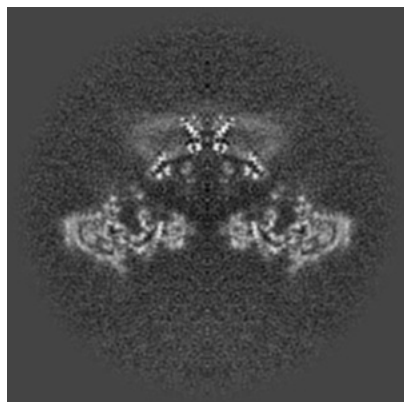


Z

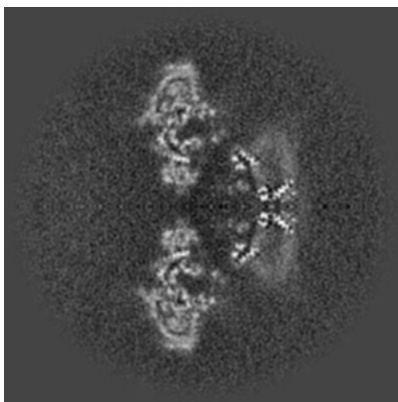
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

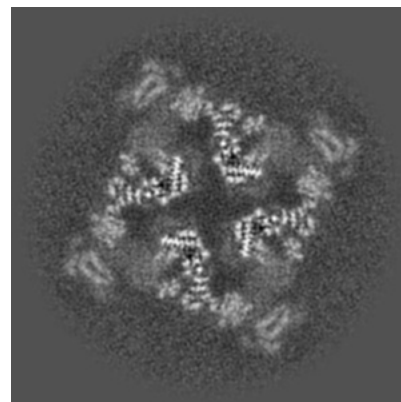
6.2.1 Primary map



X Index: 256

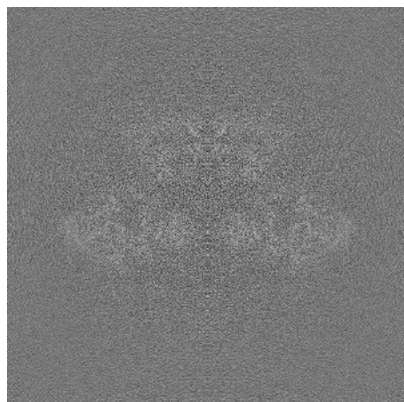


Y Index: 256

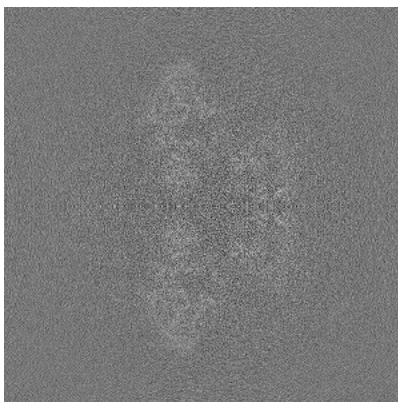


Z Index: 256

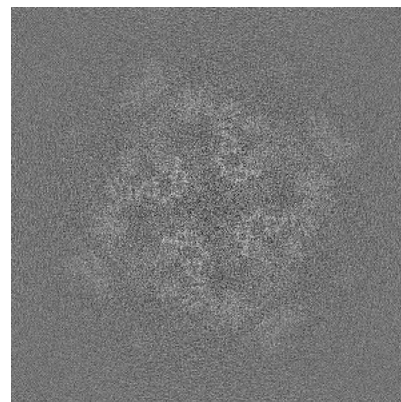
6.2.2 Raw map



X Index: 256



Y Index: 256

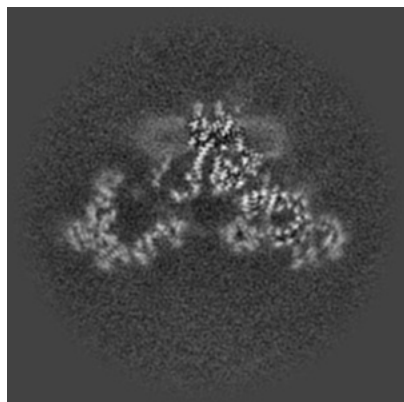


Z Index: 256

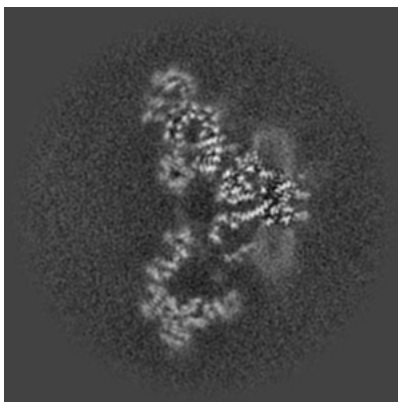
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

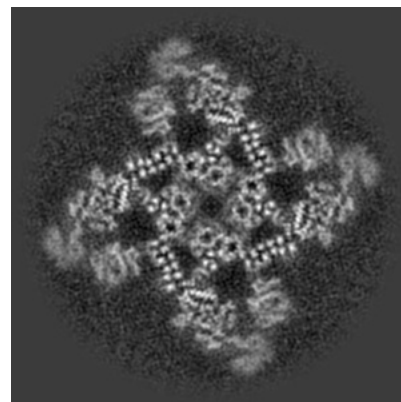
6.3.1 Primary map



X Index: 269

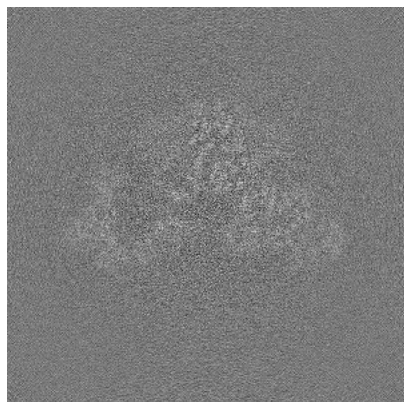


Y Index: 243

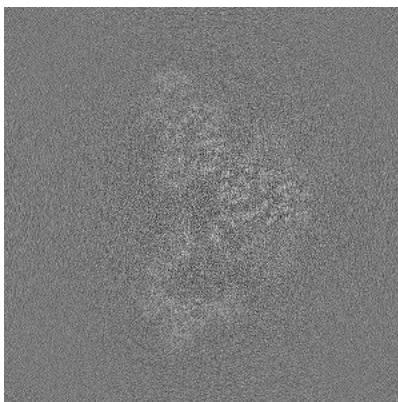


Z Index: 229

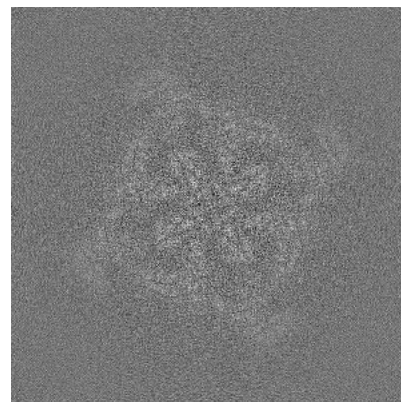
6.3.2 Raw map



X Index: 270



Y Index: 242

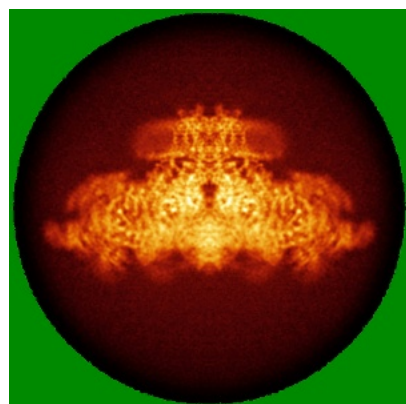


Z Index: 275

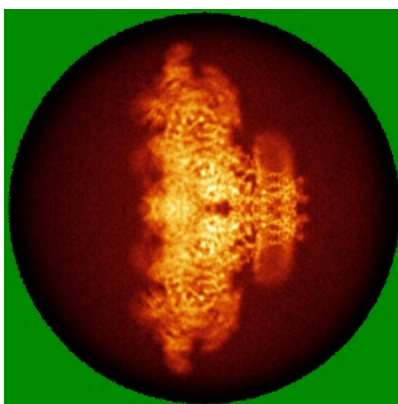
The images above show the largest variance slices of the map in three orthogonal directions.

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

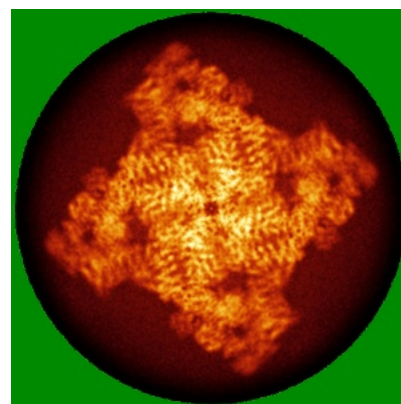
6.4.1 Primary map



X

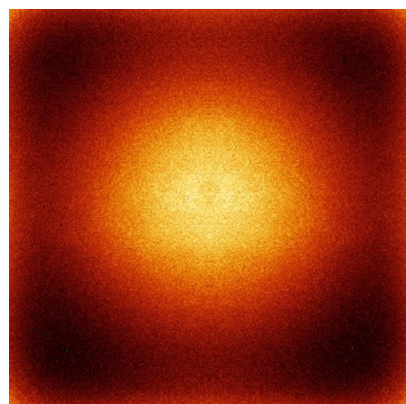


Y

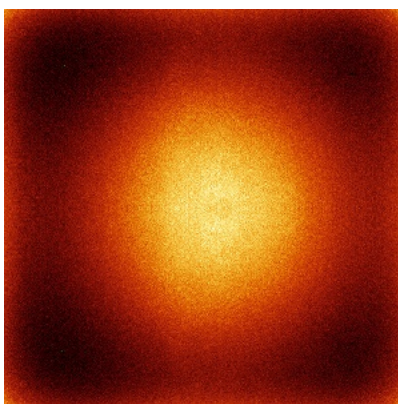


Z

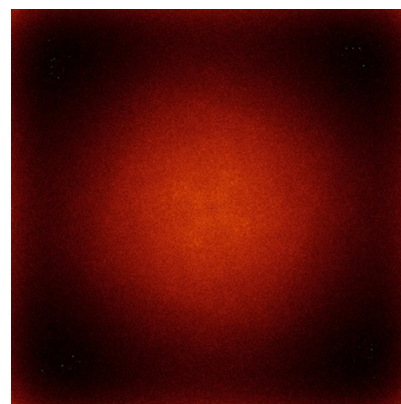
6.4.2 Raw map



X



Y

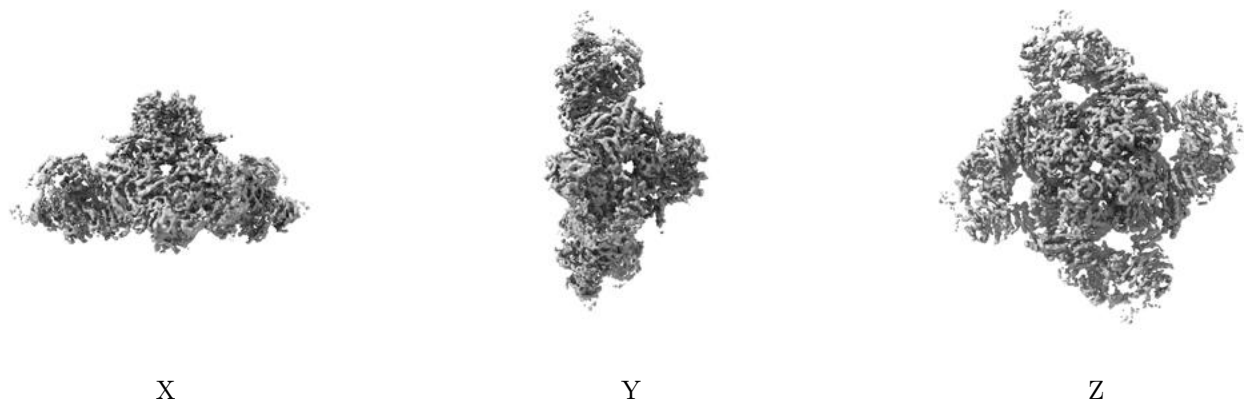


Z

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

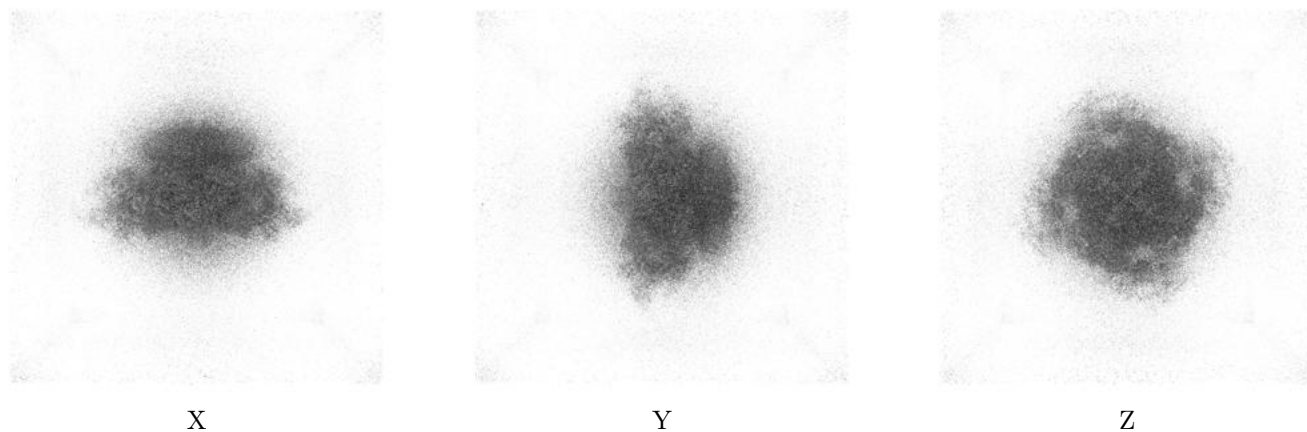
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



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

6.5.2 Raw map



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

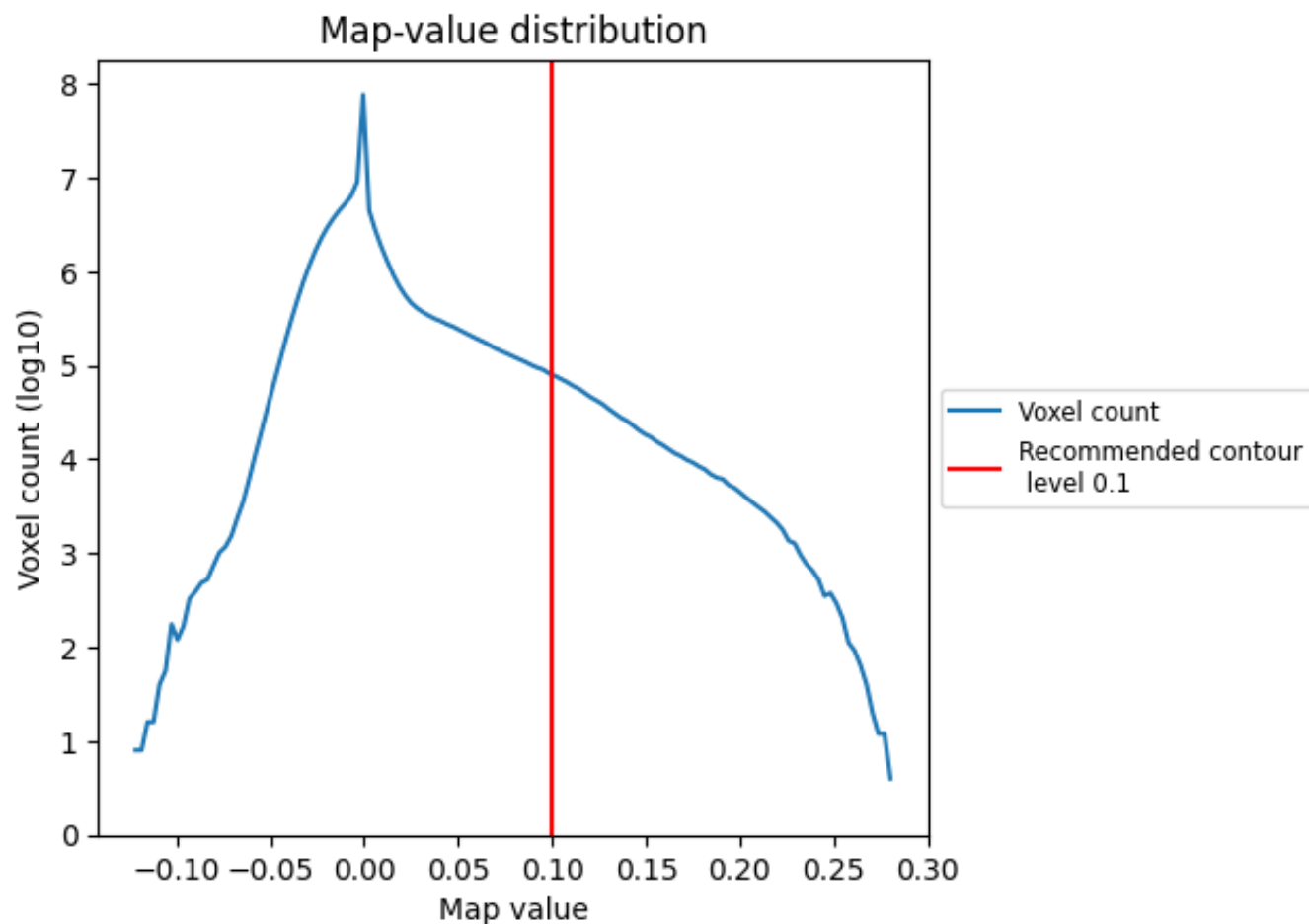
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

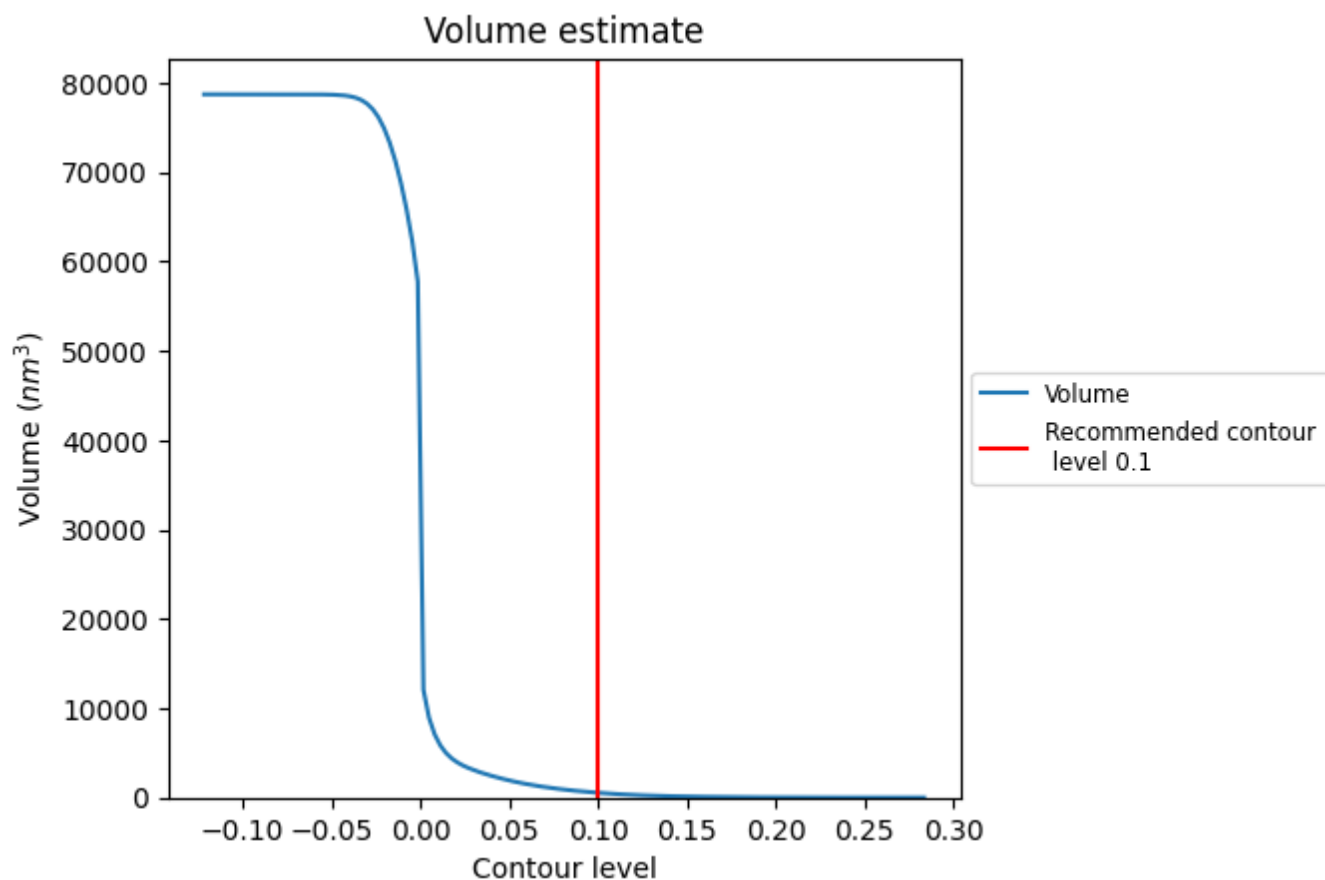
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

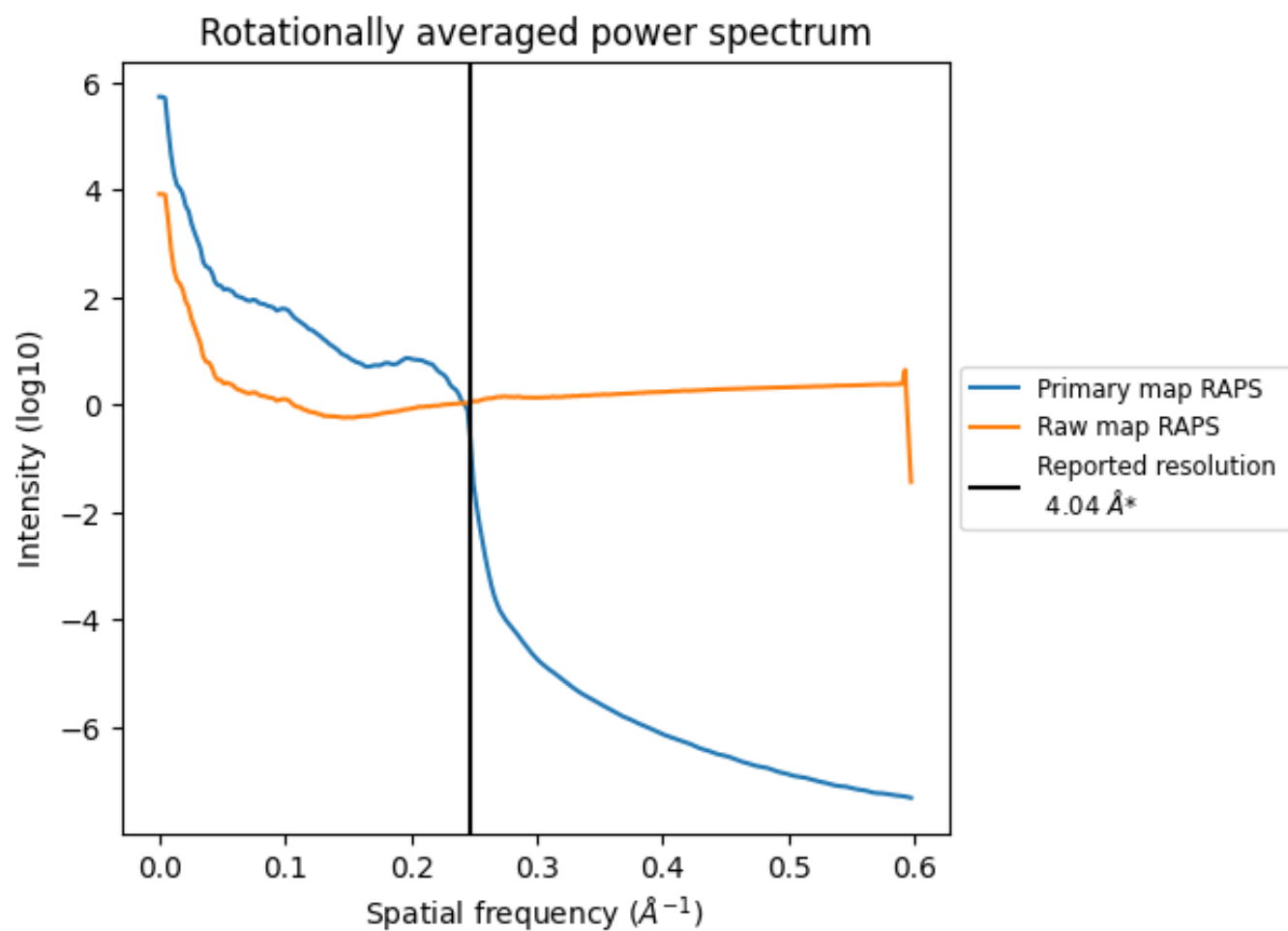
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 534 nm³; this corresponds to an approximate mass of 482 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 ⓘ

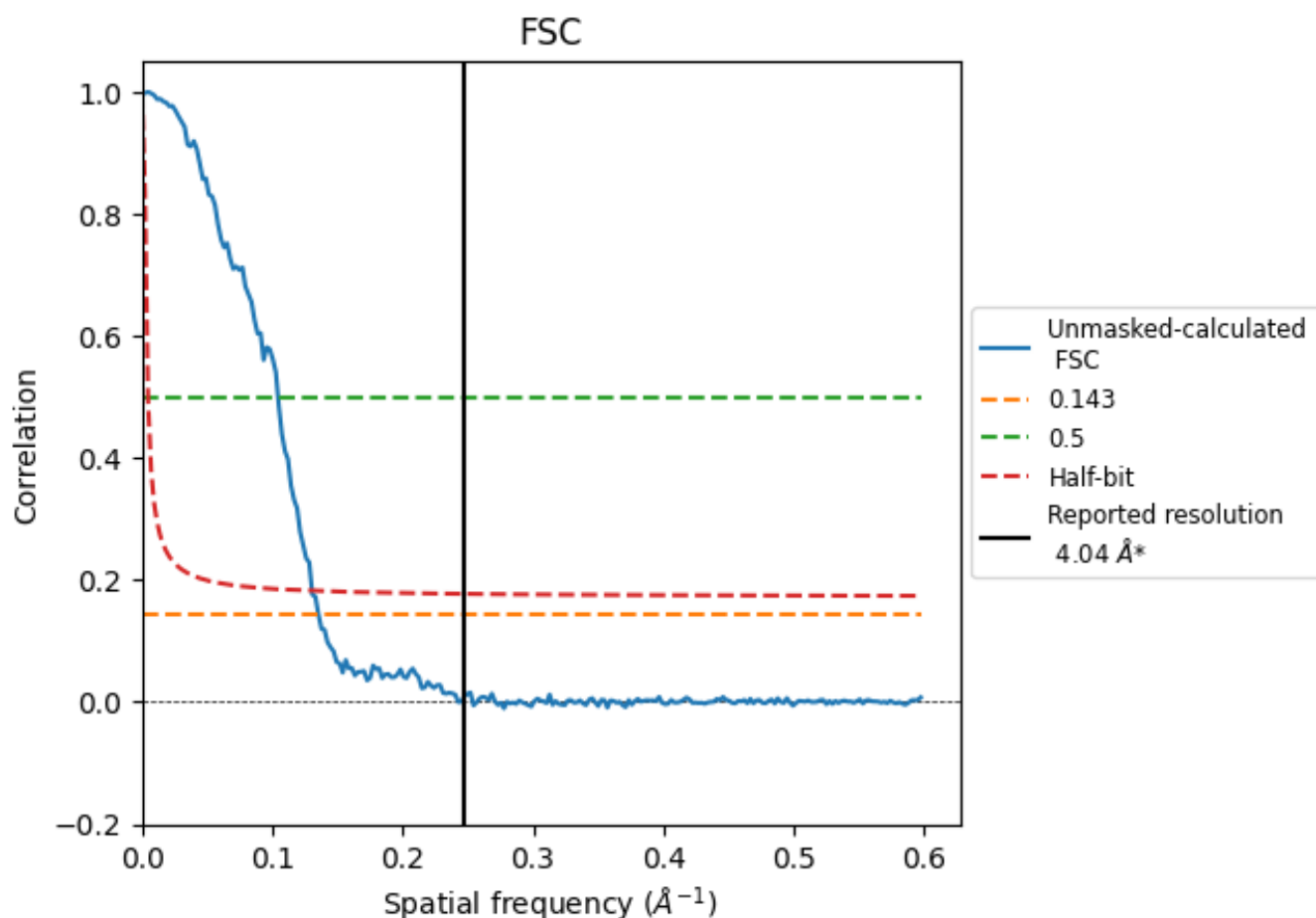


*Reported resolution corresponds to spatial frequency of 0.248 $\text{\AA}^{-1}$

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 0.248 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

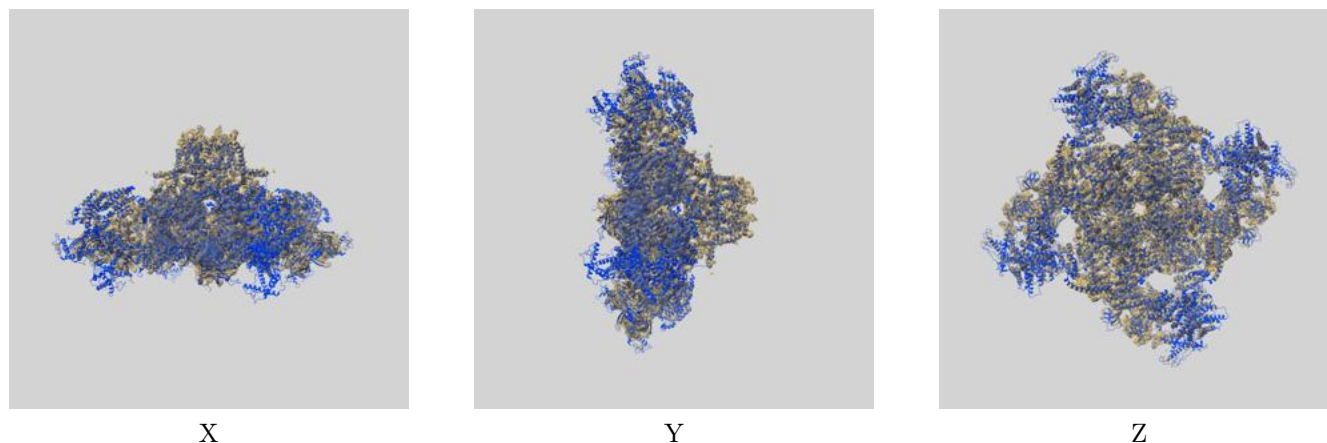
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.04	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	7.39	9.58	7.67

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.39 differs from the reported value 4.04 by more than 10 %

9 Map-model fit [i](#)

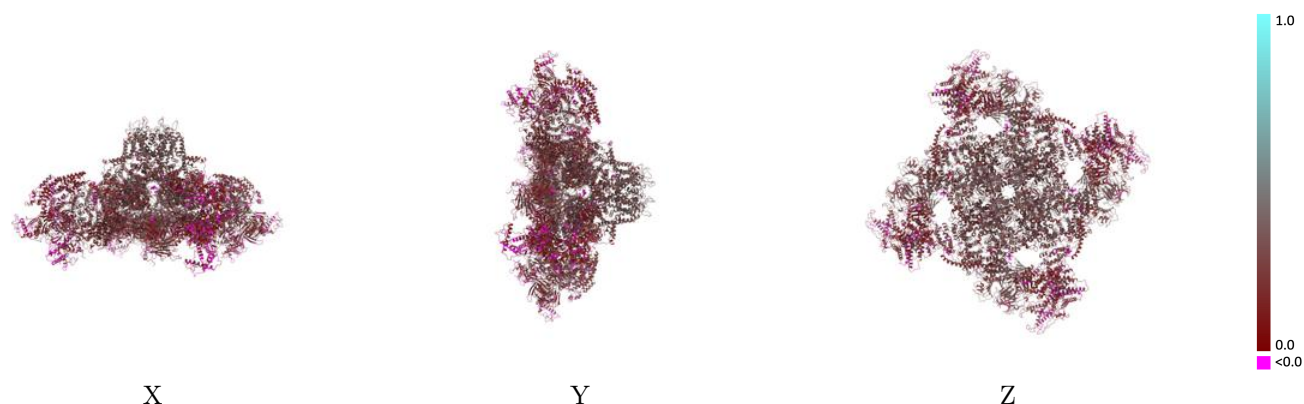
This section contains information regarding the fit between EMDB map EMD-47386 and PDB model 9E19. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



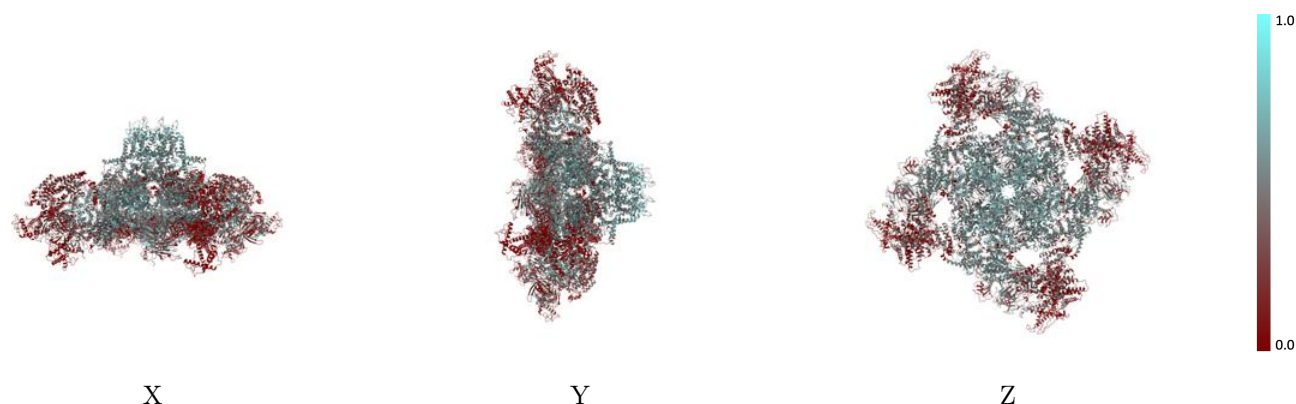
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



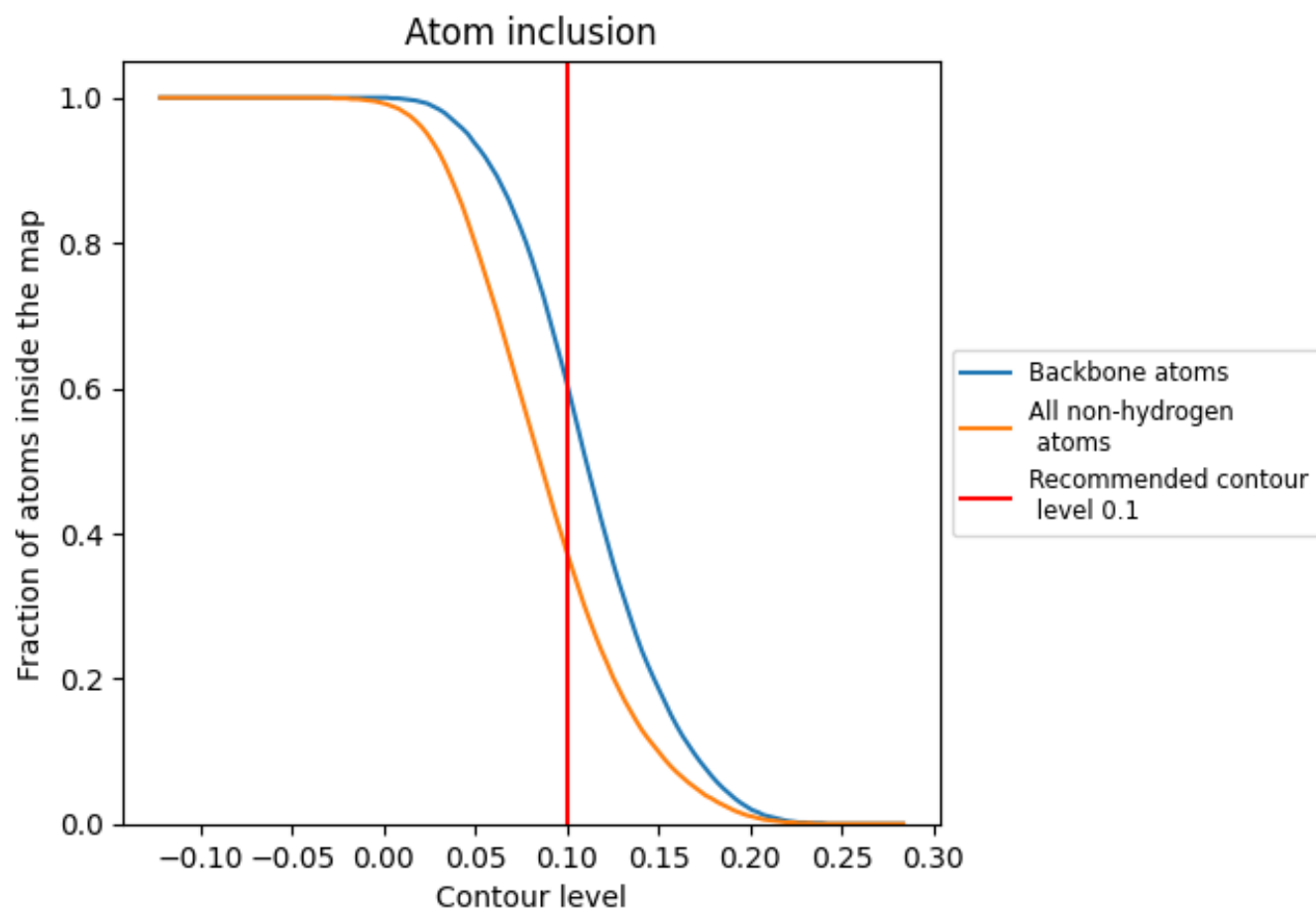
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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

9.4 Atom inclusion [i](#)



At the recommended contour level, 61% of all backbone atoms, 37% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

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

Chain	Atom inclusion	Q-score
All	0.3740	0.2250
A	0.3800	0.2270
B	0.3770	0.2240
C	0.3780	0.2240
D	0.3790	0.2250
E	0.1930	0.2270
F	0.1950	0.2210
G	0.1980	0.2260
H	0.1910	0.2270

1.0

0.0

<0.0