



Full wwPDB EM Validation Report ⓘ

Nov 3, 2024 – 07:12 pm GMT

PDB ID : 8RRW
EMDB ID : EMD-19467
Title : Structure of RyR1 in detergent in open state in complex with FKBP and Nb9657.
Authors : Li, C.; Efremov, R.G.
Deposited on : 2024-01-23
Resolution : 4.20 Å(reported)

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

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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.dev113
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
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) : 2.39

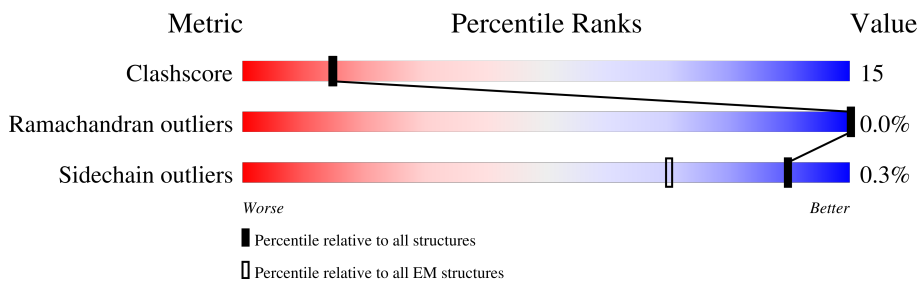
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.20 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.



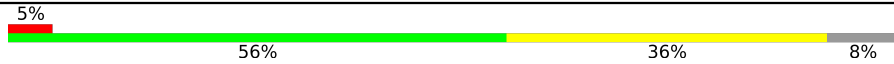

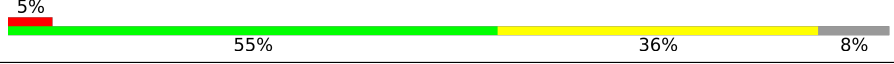

Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	B	5027	
1	E	5027	
1	G	5027	
1	J	5027	
2	A	107	
2	D	107	
2	H	107	
2	I	107	

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Mol	Chain	Length	Quality of chain
3	C	137	 5% 56% 36% 8%
3	F	137	 5% 55% 36% 8%
3	K	137	 5% 55% 36% 8%
3	M	137	 5% 55% 36% 8%

2 Entry composition i

There are 7 unique types of molecules in this entry. The entry contains 143744 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
			Total	C	N	O	S		
1	B	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		
1	E	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		
1	G	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		
1	J	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	A	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	D	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	I	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	100	ASP	GLY	conflict	UNP Q8HYX6
D	100	ASP	GLY	conflict	UNP Q8HYX6
H	100	ASP	GLY	conflict	UNP Q8HYX6
I	100	ASP	GLY	conflict	UNP Q8HYX6

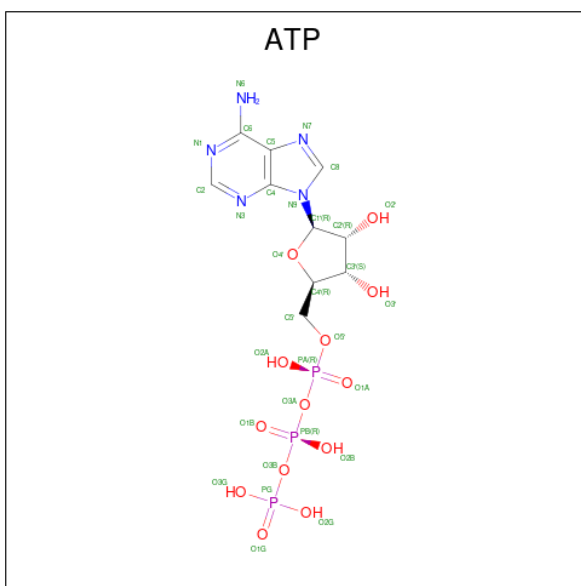
- Molecule 3 is a protein called Nanobody 9657.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	F	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	K	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	M	126	Total	C	N	O	S	0	0
			967	597	170	195	5		

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
4	B	1	Total	Zn	0
			1	1	
4	E	1	Total	Zn	0
			1	1	
4	G	1	Total	Zn	0
			1	1	
4	J	1	Total	Zn	0
			1	1	

- Molecule 5 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃) (labeled as "Ligand of Interest" by depositor).



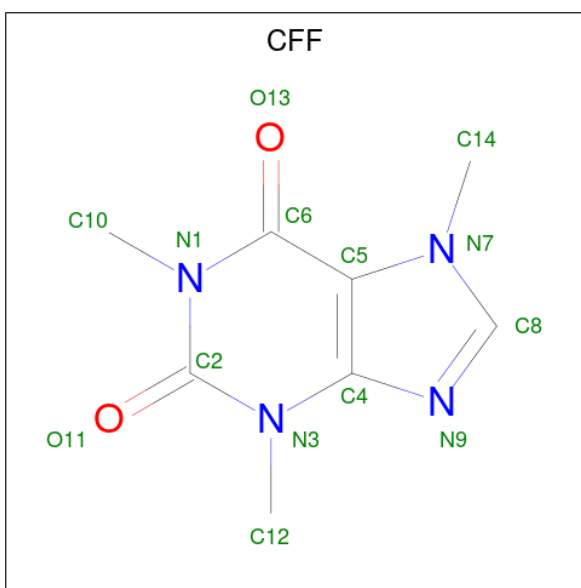
Mol	Chain	Residues	Atoms					AltConf
5	B	1	Total	C	N	O	P	0
			31	10	5	13	3	

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Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
5	E	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	G	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	J	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 6 is CAFFEINE (three-letter code: CFF) (formula: $C_8H_{10}N_4O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	E	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	J	1	Total	C	N	O	0
			14	8	4	2	

- Molecule 7 is CALCIUM ION (three-letter code: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
			Total	Ca	
7	B	1	Total	Ca	0
			1	1	

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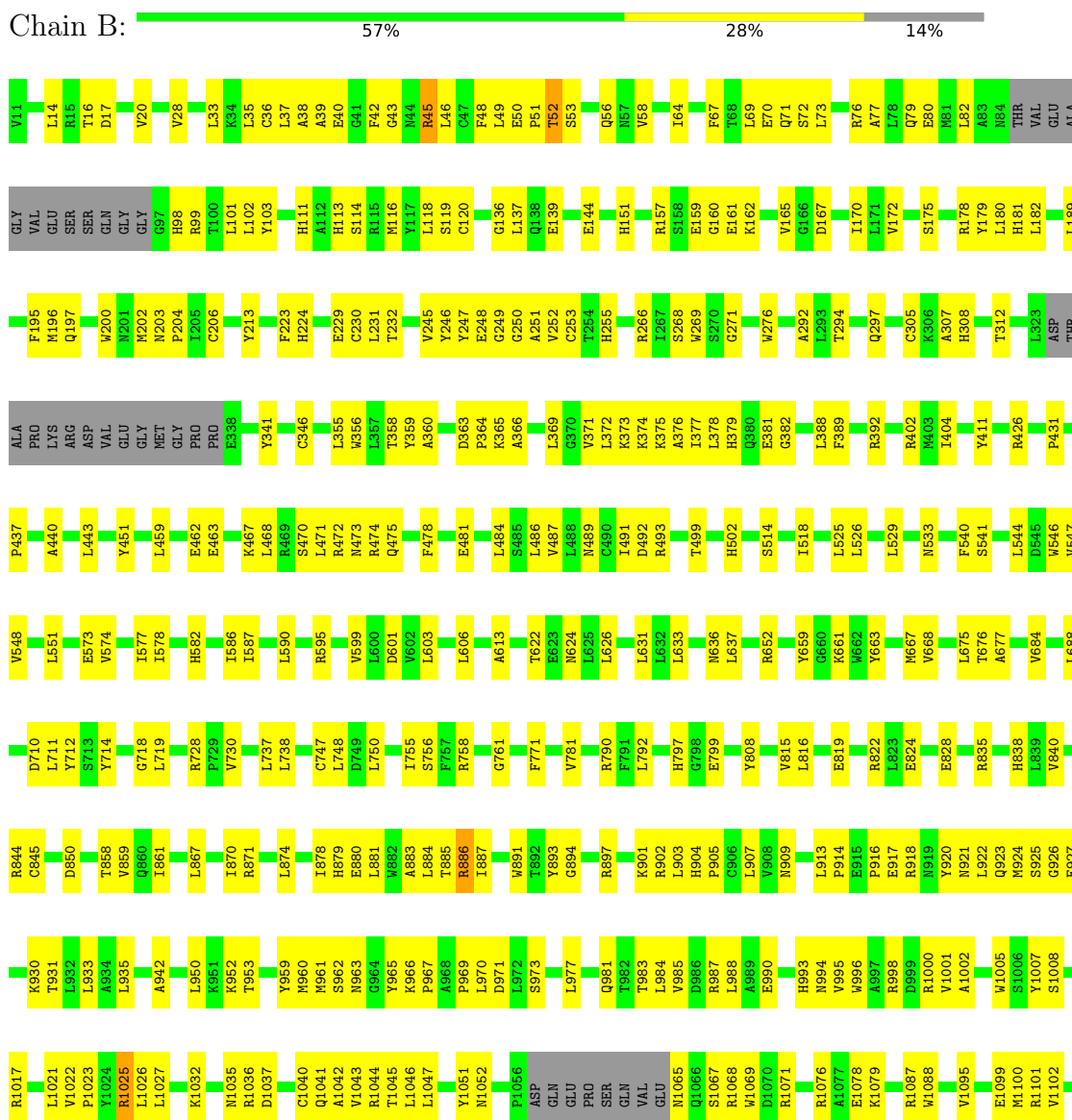
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Mol	Chain	Residues	Atoms		AltConf
7	E	1	Total 1	Ca 1	0
7	G	1	Total 1	Ca 1	0
7	J	1	Total 1	Ca 1	0

3 Residue-property plots

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

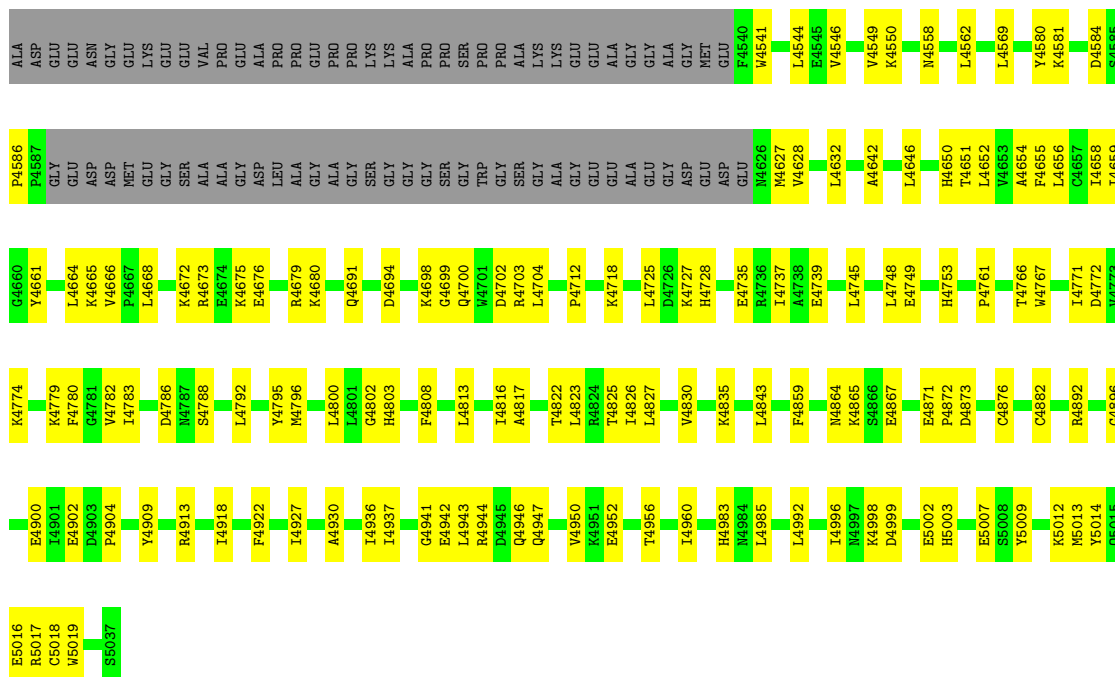
• Molecule 1: Ryanodine receptor 1



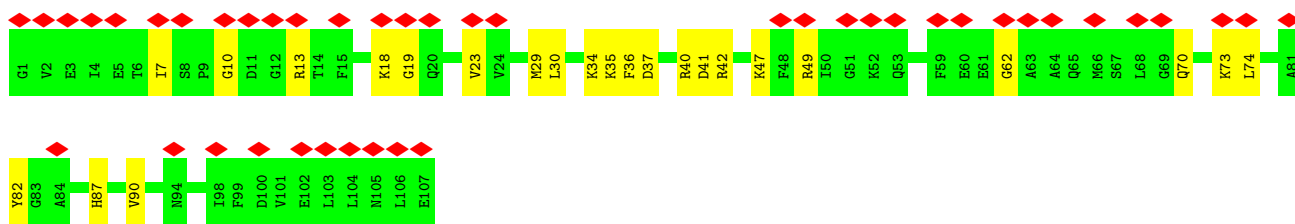
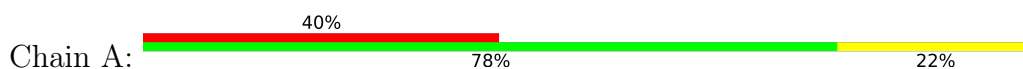
I2470	R2392	R2163	Y1935	I1866	S1778	K1534	W1449	GLU	GLN	A1215	P1107
L2474	P2395	L2166	K1936	V1870	P1779	E1935	W1452	LYS	PRO	L1219	E1114
L2479	VAL	E2175	Q1938	G1874	F1780	F1539	Q1459	ASP	ALA	F1222	E1119
Q2487	ARG	L2179	Y1945	GLU	C1781	F1540	F1464	THR	ASP	G1223	F1223
P2488	ARG	L2182	F1946	GLU	F1782	K1547	D1465	GLU	GLU	E1224	W1123
K2489	VAL	M2186	D1948	GLU	L1786	P1550	L1466	LYS	ALA	P1225	
M2490	ARG	N2187	Q1949	GLU	P1787	T1557	S1467	ASN	ALA	I1228	G1126
S2491	LYS	R1954	R1954	GLU	ALA	H1558	K1468	LYS	ALA	N1229	R1127
V2495	LYS	R1964	R1964	GLU	GLY	Q1559	V1469	ARG	GLU	M1230	G1129
P2496	GLU	Y1965	Y1965	GLU	VAL	H1560	W1472	ASP	ASP	Q1231	Q1130
H2498	LYS	K1968	E1793	GLU	E1793	V1861	M1476	PRO	PRO	R1232	R1131
K2499	PRO	K1968	R1797	GLU	R1797	I1562	G1477	ASP	ASP	P1233	W1132
A2500	GLU	Q1973	L1798	GLU	L1798	Q1563	D1478	LYS	TYR	W1237	H1133
S2501	GLU	P2001	A1801	GLU	A1801	F1564	Q1569	LYS	GLU	K1240	P1138
M2502	LEU	Q2005	I1802	GLU	I1802	Q1569	M1482	LYS	ASN	S1241	W1143
V2503	LEU	L2009	I1803	GLU	P1803	M1482	V1483	ALA	LEU	L1242	Q1144
F2505	GLU	F2012	L1804	ASP	L1804	I1572	L1487	ALA	ARG	S1145	S1145
V2509	GLU	E2025	R1808	GLU	R1808	P4574	G1492	MET	ALA	F1245	V1149
Y2510	PRO	R2028	D1809	LYS	D1809	L1575	Y1493	GLY	GLY	E1246	W1152
L2519	ALA	L2031	K1810	GLU	K1810	S1576	Y1493	THR	GLY	P1247	M1152
L2522	GLU	L2037	M1814	ASP	Y1712	A1577	Y1493	PRO	THR	H1254	I1153
L2527	GLU	D2038	L1714	GLU	L1714	A1578	M1573	PRO	GLY	Y1255	D1154
P2528	GLY	L2039	G1816	GLU	G1816	L1500	L1574	ALA	GLU	E1256	L1155
D2529	GLU	L2044	E1817	GLU	E1817	L1595	F1500	PRO	GLU	V1257	T1159
F2541	GLU	Q2045	R1820	GLU	R1820	L1599	D1499	GLY	GLY	R1271	I1161
M2546	THR	L2131	D1821	LYS	D1821	M1599	S1502	LYS	LYS	H1274	F1163
L2550	LYS	G2132	G1822	ASP	G1822	L1600	G1504	ARG	GLY	R4275	T1163
Y2553	GLU	E2133	R1827	ALA	R1827	W1605	GLN	PRO	THR	L1283	V1168
L2554	GLU	G2134	D1828	GLU	D1828	L1613	GLY	VAL	LYS	F1288	T1177
V2558	GLU	L2134	P1829	PRO	P1829	L1616	D1513	GLY	GLU	A1178	A1178
L2559	GLU	L2135	V1830	GLU	V1830	E1616	L1514	THR	GLY	L1289	F1179
I2562	PRO	L2136	Q1837	GLU	Q1837	T1617	L1514	PRO	THR	R1290	R1180
T2563	PRO	L2137	F1838	ALA	F1838	R1618	V1515	ALA	PRO	L1291	E1181
R2575	GLU	A2141	V1841	GLU	V1841	R1619	I1516	GLY	GLY	S1292	I1182
M2578	GLU	Y2142	E1857	ASP	E1857	A1620	G1517	THR	THR	L1293	E1183
M2583	THR	P2146	D1858	GLU	D1858	L1623	L1519	PRO	PRO	F1297	I1184
L2582	SER	L2257	V1859	LEU	V1859	L1624	L1522	GLN	GLN	T1304	L1189
H2584	SER	L2265	K1860	LEU	K1860	G1625	A1523	VAL	ALA	ALA	L1194
T2585	SER	L2265	Q1861	LEU	Q1861	W1626	L1526	GLY	ALA	GLY	V1199
V2467	ARG	C2158	I1862	ARG	I1862	A1627	M1527	VAL	ALA	ALA	G1200
L2469	LEU	I2182	L1863	LEU	L1863	Q1629	V1528	GLN	PRO	THR	H1201
			P1932	ARG	P1932	L1639	F1529	VAL	LEU	LEU	L1202
			S1934	ARG	S1934	P1642	T1530	ARG	PRO	PRO	M1203
						E1643	M1531	ALA	GLY	GLY	L1204
							E1533	ASN	ASN	LEU	Q1206

E2978	E2979	V2980	V2986	E2992	Q2993	E2994	I2995	K2996	F2997	F2998	A2999	K3000	L3003	P3004	Y3009	L3015	Y3016	F3017	L3018	P3021	L3025	A3031	S3032	R3033	K3034	E3035	K3036	E3037	M3038	L3042	F3043	L3046	A3047	R3051	H3052	K3053	V3054	F3057	D3061	A3061	P3062	D2968	A3063	V3064	V3065	L3068	E1857	D1858	V1859	Q1860	I1861	I1862	L1863	T1869	S1870	L1871	L1872	S1873	I1874	P1875	A1801	I1802	P1803	L1804	R1808	D1809	K1810	M1814	L1815	G1816	E1817	R1820	D1821	G1822	R1827	D1828	P1829	V1830	Q1837	F1838	V1841	V1845	I1853	L2138	Q2247	R2248	A2141	Y2142	F2251	L2257	M2153	C2158	L2162	R2163	L2166	I2281	D2282	L2286	E2292	L2295	V2298	V2299	C2310	P2311	M2312	L2313	Y2318	P2325	E2329	R2336	N2351	V2352	V2353	R2354	L2355	L2356	L2357	I2358	R2359	K2360	F2364	A2367	L2368	L2376	I2380	E2381	L2465	L2466	G2468	L2470	L2474	L2479	Q2487	P2488	K2489	M2490	S2491	V2495	P2496	D2497	H2498	K2499	A2500	S2501	M2502	V2503	L2504	R2505	V2509	Y2510	Q2515	L2519	L2522	L2527	P2528	D2529	F2541	M2546	L2550	Y2553	L2554	V2558	L2559	I2562	T2563	R2575	M2578	M2582	L2583	H2584	T2585	R2588	R2591	L2595	T2596	K2597	A2598	Q2599	R2600	V2601	L2603	E2604	D2605	M2608	A2609	L2610	T2614	R2615	P2616	L2619	L2623	R2624	S2625	L2626	L2633	F2636	A2637	P2640	L2641	K2642	T2645	N2646	H2647	Y2648	C2651	W2652	K2653	Y2654	W2661	T2667	S2668	E2671	H2672	L2674	K2677	D2684	H2688	K2689	K2690	Y2691	E2694	L2695	Y2696	R2697	M2698	C2702	I2706	A2707	D2716	L2718	K2725	ALA	THR	VAL	ALA	ALA	GLY	R2734	F2735	R2738	P2739	V2740	E2741	T2742	I2746	I2747	P2748	E2749	K2750	L2751	F2754	I2755	A2759	E2760	E2764	K2765	F2768	D2769	K2770	L2771	Q2772	N2773	M2774	W2775	S2776	Y2777	G2778	E2779	H2788	P2789	M2790	L2791	R2792	P2793	Y2794	K2795	T2796	K2802	E2803	R2806	K2810	L2813	K2814	A2815	M2816	I2817	A2818	W2819	E2820	W2821	T2822	L2823	E2824	K2825	A2826	A2827	R2828	E2829	E2830	GLU	GLU	ARG	ARG	G2899	H2902	P2903	L2904	L2905	V2906	L2974	A2975	I1745	E1857	D1858	V1859	Q1860	I1861	I1862	L1863	T1869	S1870	L1871	L1872	S1873	I1874	P1875	ALA	ALA	VAL	VAL	ALA	E1793	R1797	L1798	A1801	I1802	P1803	L1804	R1808	D1809	K1810	M1814	L1815	G1816	E1817	R1820	D1821	G1822	R1827	D1828	P1829	V1830	Q1837	F1838	V1841	V1845	I1853	GLU	ASP	L1922	L1926	L1927	P1932	E1933	S1934	V1935	K1936	L1937	Q1938	E1944	Y1945	F1946	D1947	C1948	Q1949	R1954	R1964	Y1965	K1968	Q1973	P2001	Q2005	L2009	F2012	K2013	E2025	R2028	L2031	D2037	S2122	L2039	R2126	Q2127	L2100	M2101	H2100	Y2110	F2121	L2123	L2122	R2126	Q2127	L2131	G2132	F2133	L2134	L2135	R2136	A2137	L2138	Q2247	R2248	A2141	Y2142	F2251	L2257	M2153	C2158	L2162	R2163	L2166	I2281	D2282	L2286	E2292	L2295	V2298	V2299	C2310	P2311	M2312	L2313	Y2318	P2325	E2329	R2336	N2351	V2352	V2353	R2354	L2355	L2356	L2357	I2358	R2359	K2360	F2364	A2367	L2368	L2376	I2380	E2381	L2465	L2466	G2468	L2470	L2474	L2479	Q2487	P2488	K2489	M2490	S2491	V2495	P2496	D2497	H2498	K2499	A2500	S2501	M2502	V2503	L2504	R2505	V2509	Y2510	Q2515	L2519	L2522	L2527	P2528	D2529	F2541	M2546	L2550	Y2553	L2554	V2558	L2559	I2562	T2563	R2575	M2578	M2582	L2583	H2584	T2585	R2588	R2591	L2595	T2596	K2597	A2598	Q2599	R2600	V2601	L2603	E2604	D2605	M2608	A2609	L2610	T2614	R2615	P2616	L2619	L2623	R2624	S2625	L2626	L2633	F2636	A2637	P2640	L2641	K2642	T2645	N2646	H2647	Y2648	C2651	W2652	K2653	Y2654	W2661	T2667	S2668	E2671	H2672	L2674	K2677	D2684	H2688	K2689	K2690	Y2691	E2694	L2695	Y2696	R2697	M2698	C2702	I2706	A2707	D2716	L2718	K2725	ALA	THR	VAL	ALA	ALA	GLY	R2734	F2735	R2738	P2739	V2740	E2741	T2742	I2746	I2747	P2748	E2749	K2750	L2751	F2754	I2755	A2759	E2760	E2764	K2765	F2768	D2769	K2770	L2771	Q2772	N2773	M2774	W2775	S2776	Y2777	G2778	E2779	H2788	P2789	M2790	L2791	R2792	P2793	Y2794	K2795	T2796	K2802	E2803	R2806	K2810	L2813	K2814	A2815	M2816	I2817	A2818	W2819	E2820	W2821	T2822	L2823	E2824	K2825	A2826	A2827	R2828	E2829	E2830	GLU	GLU	ARG	ARG	G2899	H2902	P2903	L2904	L2905	V2906	L2974	A2975
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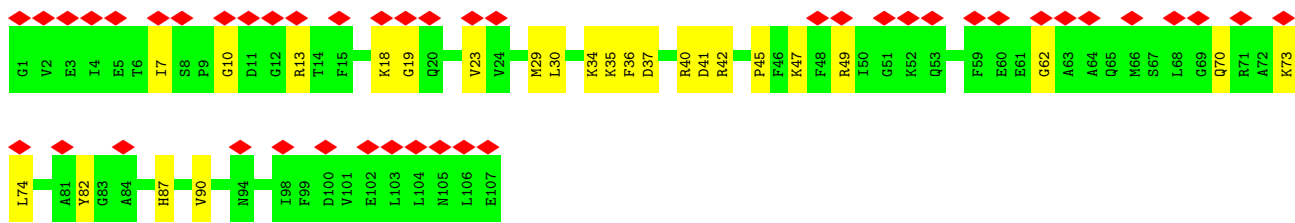
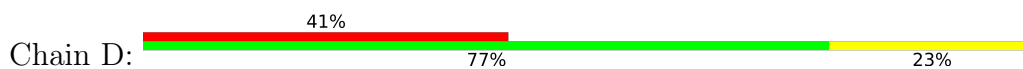
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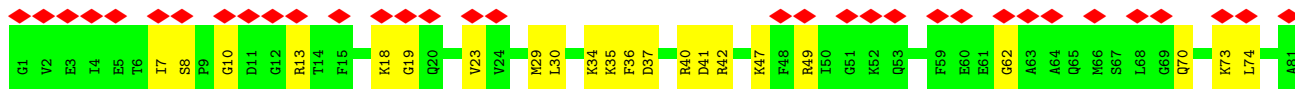
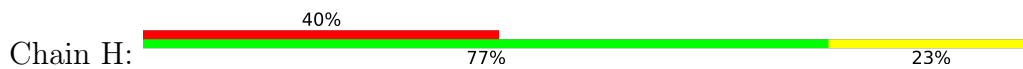
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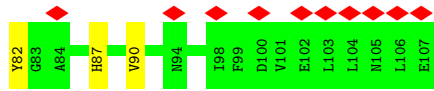


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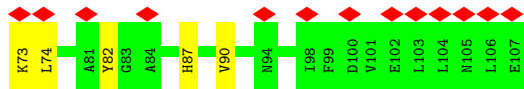
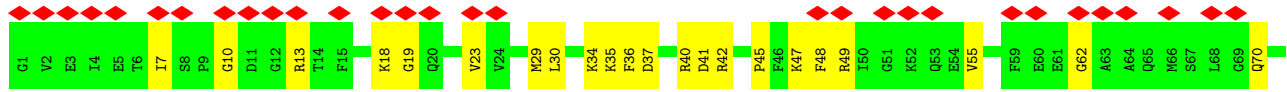
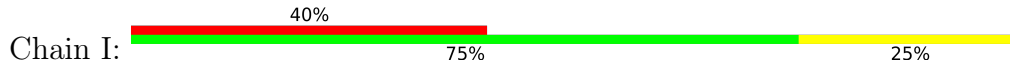


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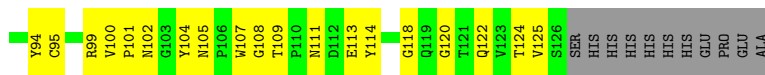




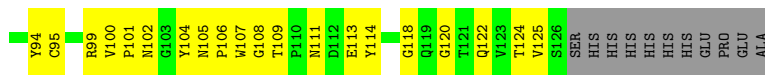
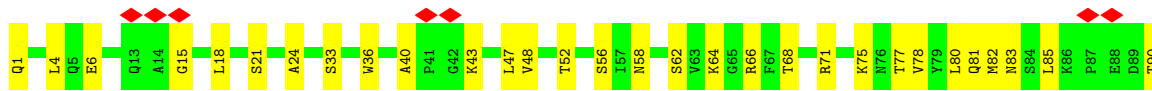
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B



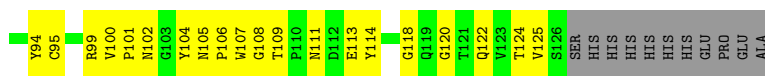
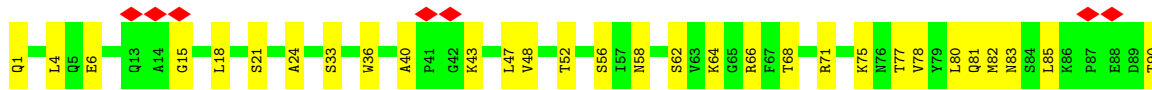
• Molecule 3: Nanobody 9657



• Molecule 3: Nanobody 9657

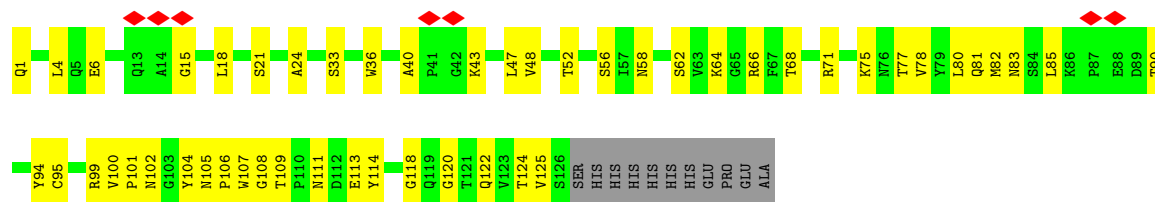


• Molecule 3: Nanobody 9657



• Molecule 3: Nanobody 9657





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	29246	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	JEOL CRYO ARM 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	4.150	Depositor
Minimum map value	-0.183	Depositor
Average map value	0.061	Depositor
Map value standard deviation	0.123	Depositor
Recommended contour level	0.28	Depositor
Map size (\AA)	500.64, 500.64, 500.64	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.49, 1.49, 1.49	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	B	0.25	0/34879	0.51	3/47278 (0.0%)
1	E	0.25	0/34879	0.51	3/47278 (0.0%)
1	G	0.25	0/34879	0.51	3/47278 (0.0%)
1	J	0.25	0/34879	0.51	3/47278 (0.0%)
2	A	0.25	0/834	0.54	0/1123
2	D	0.25	0/834	0.54	0/1123
2	H	0.25	0/834	0.54	0/1123
2	I	0.25	0/834	0.54	0/1123
3	C	0.26	0/987	0.51	0/1340
3	F	0.26	0/987	0.51	0/1340
3	K	0.26	0/987	0.51	0/1340
3	M	0.26	0/987	0.51	0/1340
All	All	0.25	0/146800	0.51	12/198964 (0.0%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	961	MET	CG-SD-CE	7.22	111.75	100.20
1	G	961	MET	CG-SD-CE	7.22	111.75	100.20
1	J	961	MET	CG-SD-CE	7.22	111.75	100.20
1	B	961	MET	CG-SD-CE	7.21	111.74	100.20
1	B	2911	LEU	CB-CG-CD2	-5.96	100.86	111.00
1	E	2911	LEU	CB-CG-CD2	-5.94	100.91	111.00
1	J	2911	LEU	CB-CG-CD2	-5.93	100.91	111.00
1	G	2911	LEU	CB-CG-CD2	-5.92	100.94	111.00
1	B	1503	PRO	N-CA-CB	5.63	110.06	103.30
1	E	1503	PRO	N-CA-CB	5.63	110.06	103.30
1	G	1503	PRO	N-CA-CB	5.63	110.06	103.30
1	J	1503	PRO	N-CA-CB	5.63	110.06	103.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	34104	0	33492	1033	0
1	E	34104	0	33492	1027	0
1	G	34104	0	33492	1024	0
1	J	34104	0	33492	1018	0
2	A	818	0	824	19	0
2	D	818	0	824	21	0
2	H	818	0	824	21	0
2	I	818	0	824	20	0
3	C	967	0	916	44	0
3	F	967	0	916	46	0
3	K	967	0	916	44	0
3	M	967	0	916	46	0
4	B	1	0	0	0	0
4	E	1	0	0	0	0
4	G	1	0	0	0	0
4	J	1	0	0	0	0
5	B	31	0	12	1	0
5	E	31	0	12	1	0
5	G	31	0	12	1	0
5	J	31	0	12	1	0
6	B	14	0	10	1	0
6	E	14	0	10	1	0
6	G	14	0	10	4	0
6	J	14	0	10	1	0
7	B	1	0	0	0	0
7	E	1	0	0	0	0
7	G	1	0	0	0	0
7	J	1	0	0	0	0
All	All	143744	0	141016	4248	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 15.

All (4248) 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:E:2911:LEU:HD13	1:E:2915:GLU:HG3	1.53	0.90
1:G:3197:LEU:O	1:G:3201:MET:HB2	1.71	0.90
1:J:3197:LEU:O	1:J:3201:MET:HB2	1.71	0.90
1:J:2911:LEU:HD13	1:J:2915:GLU:HG3	1.53	0.90
1:G:2911:LEU:HD13	1:G:2915:GLU:HG3	1.53	0.90
1:B:2911:LEU:HD13	1:B:2915:GLU:HG3	1.53	0.89
1:B:3967:GLU:HA	1:B:3970:GLN:HG2	1.55	0.89
1:E:3197:LEU:O	1:E:3201:MET:HB2	1.71	0.89
1:E:3967:GLU:HA	1:E:3970:GLN:HG2	1.54	0.88
1:B:3197:LEU:O	1:B:3201:MET:HB2	1.71	0.88
1:J:3967:GLU:HA	1:J:3970:GLN:HG2	1.55	0.88
1:G:4961:CYS:SG	1:G:4983:HIS:CE1	2.67	0.88
1:E:4961:CYS:SG	1:E:4983:HIS:CE1	2.67	0.86
1:B:4961:CYS:SG	1:B:4983:HIS:CE1	2.67	0.86
1:G:3967:GLU:HA	1:G:3970:GLN:HG2	1.57	0.85
1:E:3889:GLN:HB2	1:E:3967:GLU:HG3	1.59	0.84
1:G:1947:CYS:SG	1:G:2127:GLN:NE2	2.51	0.84
1:E:1947:CYS:SG	1:E:2127:GLN:NE2	2.51	0.84
1:J:1947:CYS:SG	1:J:2127:GLN:NE2	2.51	0.83
1:B:3889:GLN:HB2	1:B:3967:GLU:HG3	1.59	0.83
1:B:1947:CYS:SG	1:B:2127:GLN:NE2	2.51	0.82
1:G:2793:PRO:HA	1:G:2855:TYR:HB2	1.62	0.82
1:J:3889:GLN:HB2	1:J:3967:GLU:HG3	1.59	0.82
1:G:3889:GLN:HB2	1:G:3967:GLU:HG3	1.61	0.81
1:G:4999:ASP:HB2	1:G:5002:GLU:HG2	1.61	0.80
1:J:2793:PRO:HA	1:J:2855:TYR:HB2	1.62	0.80
1:E:2793:PRO:HA	1:E:2855:TYR:HB2	1.62	0.80
1:G:3670:GLU:HB2	1:G:3728:ILE:HG23	1.63	0.80
1:B:3315:LEU:HD22	1:B:3345:ILE:HG12	1.64	0.80
1:B:2793:PRO:HA	1:B:2855:TYR:HB2	1.62	0.80
1:J:3670:GLU:HB2	1:J:3728:ILE:HG23	1.63	0.80
1:B:3670:GLU:HB2	1:B:3728:ILE:HG23	1.63	0.79
3:K:4:LEU:HD21	3:K:95:CYS:HB3	1.65	0.79
1:J:3315:LEU:HD22	1:J:3345:ILE:HG12	1.64	0.78
1:E:3670:GLU:HB2	1:E:3728:ILE:HG23	1.63	0.78
1:E:2755:ILE:HD12	1:E:2813:LEU:HG	1.66	0.78
1:B:3054:VAL:HG11	1:B:3131:TYR:HB2	1.65	0.78
3:C:66:ARG:HD2	3:C:83:ASN:HB2	1.66	0.78
1:E:3054:VAL:HG11	1:E:3131:TYR:HB2	1.65	0.78
3:F:66:ARG:HD2	3:F:83:ASN:HB2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3315:LEU:HD22	1:G:3345:ILE:HG12	1.64	0.78
3:M:4:LEU:HD21	3:M:95:CYS:HB3	1.65	0.78
1:J:2755:ILE:HD12	1:J:2813:LEU:HG	1.66	0.78
3:C:4:LEU:HD21	3:C:95:CYS:HB3	1.65	0.78
3:K:66:ARG:HD2	3:K:83:ASN:HB2	1.66	0.78
1:E:3315:LEU:HD22	1:E:3345:ILE:HG12	1.64	0.77
1:E:633:LEU:HB3	1:E:1639:LEU:HD11	1.66	0.77
1:J:2595:LEU:HB2	1:J:2600:ARG:HE	1.50	0.77
1:J:3054:VAL:HG11	1:J:3131:TYR:HB2	1.65	0.77
3:M:66:ARG:HD2	3:M:83:ASN:HB2	1.66	0.77
1:B:2595:LEU:HB2	1:B:2600:ARG:HE	1.50	0.77
1:B:2867:LEU:HG	1:B:2868:SER:H	1.50	0.77
3:F:4:LEU:HD21	3:F:95:CYS:HB3	1.65	0.77
1:G:633:LEU:HB3	1:G:1639:LEU:HD11	1.66	0.77
1:B:633:LEU:HB3	1:B:1639:LEU:HD11	1.66	0.77
1:G:2755:ILE:HD12	1:G:2813:LEU:HG	1.65	0.77
1:E:2867:LEU:HG	1:E:2868:SER:H	1.50	0.76
1:E:2882:TYR:HB3	1:E:2886:TRP:HZ3	1.51	0.76
1:B:2755:ILE:HD12	1:B:2813:LEU:HG	1.65	0.76
1:E:2595:LEU:HB2	1:E:2600:ARG:HE	1.50	0.76
1:G:3054:VAL:HG11	1:G:3131:TYR:HB2	1.65	0.76
1:G:2595:LEU:HB2	1:G:2600:ARG:HE	1.50	0.76
1:J:633:LEU:HB3	1:J:1639:LEU:HD11	1.66	0.76
1:B:1152:MET:HB2	1:B:1161:ILE:O	1.86	0.76
1:J:2882:TYR:HB3	1:J:2886:TRP:HZ3	1.51	0.76
1:B:2882:TYR:HB3	1:B:2886:TRP:HZ3	1.51	0.76
1:G:2975:ALA:HA	1:G:3053:ARG:HH12	1.52	0.76
1:G:1152:MET:HB2	1:G:1161:ILE:O	1.86	0.75
1:E:1152:MET:HB2	1:E:1161:ILE:O	1.86	0.75
1:E:2975:ALA:HA	1:E:3053:ARG:HH12	1.52	0.75
1:G:2882:TYR:HB3	1:G:2886:TRP:HZ3	1.51	0.75
1:J:2975:ALA:HA	1:J:3053:ARG:HH12	1.52	0.75
1:E:730:VAL:HA	1:E:1476:MET:HE1	1.69	0.75
1:J:1152:MET:HB2	1:J:1161:ILE:O	1.86	0.75
1:J:2867:LEU:HG	1:J:2868:SER:H	1.50	0.75
1:B:2975:ALA:HA	1:B:3053:ARG:HH12	1.52	0.74
1:B:3986:TRP:HB3	1:B:4047:MET:HE3	1.69	0.74
1:G:2867:LEU:HG	1:G:2868:SER:H	1.50	0.74
1:E:371:VAL:HG12	1:E:373:LYS:H	1.53	0.74
1:J:3986:TRP:HB3	1:J:4047:MET:HE3	1.69	0.74
3:F:105:ASN:ND2	3:F:111:ASN:HB2	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:105:ASN:ND2	3:K:111:ASN:HB2	2.03	0.74
3:M:105:ASN:ND2	3:M:111:ASN:HB2	2.03	0.74
1:G:3842:LEU:HB2	1:G:3929:SER:HB2	1.70	0.74
1:B:3842:LEU:HB2	1:B:3929:SER:HB2	1.70	0.74
1:G:144:GLU:HG3	1:G:175:SER:HB2	1.70	0.74
1:J:3842:LEU:HB2	1:J:3929:SER:HB2	1.70	0.73
2:H:23:VAL:HG12	2:H:47:LYS:HG2	1.70	0.73
1:B:835:ARG:HH21	1:B:1203:ASN:HD22	1.36	0.73
1:J:223:PHE:HA	1:J:230:CYS:HA	1.70	0.73
1:B:622:THR:HA	1:B:626:LEU:HD13	1.70	0.73
1:E:3842:LEU:HB2	1:E:3929:SER:HB2	1.70	0.73
1:G:730:VAL:HA	1:G:1476:MET:HE1	1.69	0.73
2:I:23:VAL:HG12	2:I:47:LYS:HG2	1.70	0.73
3:C:105:ASN:ND2	3:C:111:ASN:HB2	2.02	0.73
1:E:622:THR:HA	1:E:626:LEU:HD13	1.70	0.73
1:E:835:ARG:HH21	1:E:1203:ASN:HD22	1.36	0.73
2:D:23:VAL:HG12	2:D:47:LYS:HG2	1.70	0.73
3:C:68:THR:HB	3:C:81:GLN:HB3	1.71	0.73
1:G:247:TYR:HB2	1:G:374:LYS:HB2	1.69	0.73
1:J:144:GLU:HG3	1:J:175:SER:HB2	1.70	0.73
1:J:973:SER:HA	1:J:1044:ARG:HH21	1.54	0.73
1:J:835:ARG:HH21	1:J:1203:ASN:HD22	1.37	0.73
1:E:3986:TRP:HB3	1:E:4047:MET:HE3	1.70	0.72
1:G:835:ARG:HH21	1:G:1203:ASN:HD22	1.36	0.72
1:B:223:PHE:HA	1:B:230:CYS:HA	1.70	0.72
2:D:13:ARG:NH1	2:D:13:ARG:O	2.22	0.72
3:K:68:THR:HB	3:K:81:GLN:HB3	1.71	0.72
1:B:144:GLU:HG3	1:B:175:SER:HB2	1.70	0.72
1:B:990:GLU:OE2	1:B:994:ASN:ND2	2.23	0.72
1:G:990:GLU:OE2	1:G:994:ASN:ND2	2.23	0.72
1:G:3730:ALA:O	1:G:3734:HIS:ND1	2.22	0.72
1:G:2496:PRO:HG3	1:G:2550:LEU:HD23	1.72	0.72
3:F:68:THR:HB	3:F:81:GLN:HB3	1.71	0.72
1:E:3730:ALA:O	1:E:3734:HIS:ND1	2.22	0.72
1:J:730:VAL:HA	1:J:1476:MET:HE1	1.72	0.72
1:J:3730:ALA:O	1:J:3734:HIS:ND1	2.23	0.72
2:A:23:VAL:HG12	2:A:47:LYS:HG2	1.70	0.72
1:E:223:PHE:HA	1:E:230:CYS:HA	1.70	0.72
1:E:973:SER:HA	1:E:1044:ARG:HH21	1.54	0.72
1:G:248:GLU:HB2	1:G:373:LYS:HD3	1.71	0.72
1:J:799:GLU:HB2	1:J:1623:ARG:HH12	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:13:ARG:O	2:H:13:ARG:NH1	2.22	0.72
1:B:3730:ALA:O	1:B:3734:HIS:ND1	2.23	0.72
1:G:223:PHE:HA	1:G:230:CYS:HA	1.70	0.72
1:E:859:VAL:HA	1:E:930:LYS:HD3	1.72	0.71
1:G:622:THR:HA	1:G:626:LEU:HD13	1.70	0.71
1:J:990:GLU:OE2	1:J:994:ASN:ND2	2.23	0.71
1:B:973:SER:HA	1:B:1044:ARG:HH21	1.54	0.71
1:E:4651:THR:HG1	1:E:4803:HIS:HE2	1.37	0.71
1:G:1616:GLU:HG3	1:G:1629:GLN:HG3	1.72	0.71
1:B:1616:GLU:HG3	1:B:1629:GLN:HG3	1.72	0.71
1:B:2496:PRO:HG3	1:B:2550:LEU:HD23	1.72	0.71
1:B:4902:GLU:O	1:B:4913:ARG:NH2	2.23	0.71
1:E:4902:GLU:O	1:E:4913:ARG:NH2	2.23	0.71
1:J:38:ALA:HB1	1:J:64:ILE:HG13	1.73	0.71
1:J:4651:THR:HG1	1:J:4803:HIS:HE2	1.37	0.71
3:M:68:THR:HB	3:M:81:GLN:HB3	1.71	0.71
1:J:622:THR:HA	1:J:626:LEU:HD13	1.70	0.71
1:J:2496:PRO:HG3	1:J:2550:LEU:HD23	1.72	0.71
1:B:38:ALA:HB1	1:B:64:ILE:HG13	1.73	0.71
1:G:371:VAL:HG12	1:G:373:LYS:H	1.56	0.71
1:E:144:GLU:HG3	1:E:175:SER:HB2	1.70	0.71
1:J:4902:GLU:O	1:J:4913:ARG:NH2	2.23	0.71
1:B:799:GLU:HB2	1:B:1623:ARG:HH12	1.55	0.70
1:E:248:GLU:HB2	1:E:373:LYS:HD3	1.72	0.70
1:G:38:ALA:HB1	1:G:64:ILE:HG13	1.73	0.70
1:B:3081:MET:HG3	1:B:3156:VAL:HA	1.74	0.70
1:E:990:GLU:OE2	1:E:994:ASN:ND2	2.23	0.70
1:G:3986:TRP:HB3	1:G:4047:MET:HE3	1.73	0.70
1:J:247:TYR:HB2	1:J:374:LYS:HD2	1.73	0.70
1:E:38:ALA:HB1	1:E:64:ILE:HG13	1.73	0.70
1:G:799:GLU:HB2	1:G:1623:ARG:HH12	1.55	0.70
1:G:859:VAL:HA	1:G:930:LYS:HD3	1.72	0.70
1:B:859:VAL:HA	1:B:930:LYS:HD3	1.72	0.70
1:G:3081:MET:HG3	1:G:3156:VAL:HA	1.74	0.70
1:E:1616:GLU:HG3	1:E:1629:GLN:HG3	1.72	0.70
1:E:2496:PRO:HG3	1:E:2550:LEU:HD23	1.72	0.70
1:G:973:SER:HA	1:G:1044:ARG:HH21	1.54	0.70
1:B:247:TYR:HB2	1:B:374:LYS:HD2	1.73	0.70
1:E:953:THR:HB	1:E:969:PRO:HG2	1.73	0.70
1:J:1256:GLU:HB2	1:J:1275:ARG:HE	1.57	0.70
1:E:1256:GLU:HB2	1:E:1275:ARG:HE	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3081:MET:HG3	1:E:3156:VAL:HA	1.74	0.70
1:G:953:THR:HB	1:G:969:PRO:HG2	1.73	0.70
1:G:1256:GLU:HB2	1:G:1275:ARG:HE	1.57	0.70
2:A:13:ARG:NH1	2:A:13:ARG:O	2.22	0.70
1:J:2874:MET:HE1	1:J:2939:ARG:HG3	1.73	0.70
1:E:4127:GLU:OE1	1:E:4131:ARG:NH2	2.25	0.70
1:E:4865:LYS:NZ	1:E:4900:GLU:O	2.25	0.70
1:G:4902:GLU:O	1:G:4913:ARG:NH2	2.23	0.70
1:J:4127:GLU:OE1	1:J:4131:ARG:NH2	2.25	0.69
1:J:859:VAL:HA	1:J:930:LYS:HD3	1.72	0.69
1:J:1616:GLU:HG3	1:J:1629:GLN:HG3	1.72	0.69
1:J:3081:MET:HG3	1:J:3156:VAL:HA	1.74	0.69
1:B:4865:LYS:NZ	1:B:4900:GLU:O	2.25	0.69
1:E:2970:SER:HA	1:E:2973:PHE:CE2	2.28	0.69
1:E:2865:VAL:HG23	1:E:2928:LYS:HE3	1.75	0.69
1:G:3147:ILE:HG23	1:G:3152:PHE:HB2	1.75	0.69
1:J:886:ARG:HB3	1:J:891:TRP:HB3	1.75	0.69
1:J:2865:VAL:HG23	1:J:2928:LYS:HE3	1.75	0.69
1:J:953:THR:HB	1:J:969:PRO:HG2	1.73	0.69
1:J:2970:SER:HA	1:J:2973:PHE:CE2	2.28	0.69
1:B:371:VAL:HG12	1:B:373:LYS:H	1.57	0.69
1:B:886:ARG:HB3	1:B:891:TRP:HB3	1.75	0.69
1:B:3147:ILE:HG23	1:B:3152:PHE:HB2	1.75	0.69
1:E:799:GLU:HB2	1:E:1623:ARG:HH12	1.55	0.69
1:G:2865:VAL:HG23	1:G:2928:LYS:HE3	1.75	0.69
1:B:953:THR:HB	1:B:969:PRO:HG2	1.73	0.69
1:B:1870:VAL:HG11	1:B:2097:LEU:HD22	1.75	0.69
1:E:886:ARG:HB3	1:E:891:TRP:HB3	1.75	0.69
1:G:1870:VAL:HG11	1:G:2097:LEU:HD22	1.75	0.69
1:G:2519:LEU:HA	1:G:2522:LEU:HD12	1.74	0.69
1:J:372:LEU:O	1:J:374:LYS:HG3	1.93	0.69
1:J:4865:LYS:NZ	1:J:4900:GLU:O	2.25	0.69
1:B:950:LEU:HD13	1:B:970:LEU:HD21	1.75	0.69
1:B:1256:GLU:HB2	1:B:1275:ARG:HE	1.57	0.69
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.25	0.69
1:J:2616:PRO:HA	1:J:2619:LEU:HB3	1.75	0.69
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.74	0.69
1:B:2865:VAL:HG23	1:B:2928:LYS:HE3	1.75	0.69
1:G:223:PHE:HB2	1:G:389:PHE:HB3	1.75	0.69
1:G:886:ARG:HB3	1:G:891:TRP:HB3	1.75	0.69
1:G:2970:SER:HA	1:G:2973:PHE:CE2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4127:GLU:OE1	1:G:4131:ARG:NH2	2.25	0.69
2:I:13:ARG:O	2:I:13:ARG:NH1	2.22	0.69
1:B:2616:PRO:HA	1:B:2619:LEU:HB3	1.75	0.68
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.28	0.68
1:G:4865:LYS:NZ	1:G:4900:GLU:O	2.25	0.68
1:B:223:PHE:HB2	1:B:389:PHE:HB3	1.75	0.68
1:E:1671:ARG:HH21	1:E:1710:GLY:HA2	1.59	0.68
1:B:2913:ALA:O	1:B:2917:ALA:N	2.24	0.68
1:J:1870:VAL:HG11	1:J:2097:LEU:HD22	1.75	0.68
1:J:3147:ILE:HG23	1:J:3152:PHE:HB2	1.75	0.68
1:B:248:GLU:HB2	1:B:373:LYS:HD3	1.75	0.68
1:E:180:LEU:O	1:E:200:TRP:NE1	2.24	0.68
1:E:3147:ILE:HG23	1:E:3152:PHE:HB2	1.75	0.68
1:G:950:LEU:HD13	1:G:970:LEU:HD21	1.75	0.68
1:B:1671:ARG:HH21	1:B:1710:GLY:HA2	1.59	0.68
1:G:2616:PRO:HA	1:G:2619:LEU:HB3	1.75	0.68
1:E:223:PHE:HB2	1:E:389:PHE:HB3	1.75	0.68
1:E:2874:MET:HE1	1:E:2939:ARG:HG3	1.74	0.68
1:J:248:GLU:HB2	1:J:373:LYS:HD3	1.75	0.68
1:B:372:LEU:O	1:B:374:LYS:HG3	1.93	0.68
1:G:1671:ARG:HH21	1:G:1710:GLY:HA2	1.59	0.68
1:J:371:VAL:HG12	1:J:373:LYS:H	1.57	0.68
1:E:1870:VAL:HG11	1:E:2097:LEU:HD22	1.75	0.68
1:G:2913:ALA:O	1:G:2917:ALA:N	2.24	0.68
1:J:223:PHE:HB2	1:J:389:PHE:HB3	1.75	0.68
1:J:180:LEU:O	1:J:200:TRP:NE1	2.24	0.68
1:J:247:TYR:HB2	1:J:374:LYS:HB2	1.76	0.68
1:B:1008:SER:HB2	1:B:1017:ARG:HE	1.59	0.67
1:E:2519:LEU:HA	1:E:2522:LEU:HD12	1.74	0.67
1:E:2616:PRO:HA	1:E:2619:LEU:HB3	1.75	0.67
1:J:1671:ARG:HH21	1:J:1710:GLY:HA2	1.59	0.67
1:B:195:PHE:HE2	1:G:2359:ARG:HA	1.59	0.67
1:J:1008:SER:HB2	1:J:1017:ARG:HE	1.59	0.67
1:J:2519:LEU:HA	1:J:2522:LEU:HD12	1.74	0.67
1:J:3965:LEU:HA	1:J:3968:TYR:CD2	2.30	0.67
1:B:3224:PRO:HA	1:B:3227:ARG:HD2	1.77	0.67
1:J:950:LEU:HD13	1:J:970:LEU:HD21	1.75	0.67
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.30	0.67
1:E:2913:ALA:O	1:E:2917:ALA:N	2.24	0.67
1:G:3224:PRO:HA	1:G:3227:ARG:HD2	1.77	0.67
1:E:1008:SER:HB2	1:E:1017:ARG:HE	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:797:HIS:CE1	1:E:1626:TRP:HD1	2.12	0.67
1:E:3224:PRO:HA	1:E:3227:ARG:HD2	1.77	0.67
1:G:1008:SER:HB2	1:G:1017:ARG:HE	1.59	0.67
1:J:3224:PRO:HA	1:J:3227:ARG:HD2	1.77	0.67
1:B:636:ASN:HD22	2:A:35:LYS:HE3	1.60	0.67
1:B:2359:ARG:HA	1:E:195:PHE:HE2	1.60	0.67
1:E:950:LEU:HD13	1:E:970:LEU:HD21	1.75	0.67
1:E:3100:SER:HB3	1:E:3167:ARG:HD3	1.76	0.67
1:G:636:ASN:HD22	2:H:35:LYS:HE3	1.60	0.67
1:J:3021:PRO:HD3	1:J:3036:LYS:HZ3	1.58	0.67
1:E:372:LEU:O	1:E:374:LYS:HG3	1.95	0.67
1:J:636:ASN:HD22	2:I:35:LYS:HE3	1.60	0.67
1:E:2359:ARG:HA	1:J:195:PHE:HE2	1.59	0.66
1:G:3100:SER:HB3	1:G:3167:ARG:HD3	1.76	0.66
1:G:3965:LEU:HA	1:G:3968:TYR:CD2	2.31	0.66
1:B:247:TYR:HB2	1:B:374:LYS:HB2	1.76	0.66
1:B:730:VAL:HA	1:B:1476:MET:HE1	1.78	0.66
1:B:797:HIS:CE1	1:B:1626:TRP:HD1	2.12	0.66
1:J:797:HIS:CE1	1:J:1626:TRP:HD1	2.13	0.66
1:E:3965:LEU:HA	1:E:3968:TYR:CD2	2.30	0.66
1:G:3886:ARG:HD2	1:G:3889:GLN:HE21	1.60	0.66
1:B:1179:PHE:HB2	1:B:1182:ILE:HD11	1.78	0.66
1:E:247:TYR:HB2	1:E:374:LYS:HB2	1.76	0.66
1:E:636:ASN:HD22	2:D:35:LYS:HE3	1.61	0.66
1:E:2902:HIS:CE1	1:E:2904:LEU:HB2	2.31	0.66
1:B:3695:PRO:HG2	1:B:3700:GLN:HG2	1.78	0.66
1:E:3695:PRO:HG2	1:E:3700:GLN:HG2	1.78	0.66
1:G:178:ARG:HA	1:G:195:PHE:HD1	1.61	0.66
1:G:797:HIS:CE1	1:G:1626:TRP:HD1	2.13	0.66
1:G:2902:HIS:CE1	1:G:2904:LEU:HB2	2.31	0.66
1:J:3695:PRO:HG2	1:J:3700:GLN:HG2	1.78	0.66
1:G:180:LEU:O	1:G:200:TRP:NE1	2.24	0.66
1:G:195:PHE:HE2	1:J:2359:ARG:HA	1.59	0.66
1:G:3695:PRO:HG2	1:G:3700:GLN:HG2	1.78	0.66
1:G:4242:ILE:HG21	6:G:5103:CFF:H81	1.77	0.66
1:E:103:TYR:HB2	1:E:159:GLU:HA	1.78	0.66
1:G:1179:PHE:HB2	1:G:1182:ILE:HD11	1.78	0.66
1:J:3100:SER:HB3	1:J:3167:ARG:HD3	1.76	0.66
1:G:2637:ALA:HA	1:G:2640:PRO:HG2	1.78	0.66
1:J:1179:PHE:HB2	1:J:1182:ILE:HD11	1.78	0.66
1:B:2637:ALA:HA	1:B:2640:PRO:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1179:PHE:HB2	1:E:1182:ILE:HD11	1.78	0.65
1:E:2637:ALA:HA	1:E:2640:PRO:HG2	1.78	0.65
1:J:178:ARG:HA	1:J:195:PHE:HD1	1.61	0.65
1:G:2813:LEU:HA	1:G:2816:MET:HG3	1.78	0.65
1:E:3031:ALA:O	1:E:3036:LYS:NZ	2.27	0.65
1:E:4546:VAL:HG22	1:E:4550:LYS:HE3	1.79	0.65
1:J:758:ARG:HH11	1:J:761:GLY:HA2	1.62	0.65
1:B:4183:ILE:HD12	1:B:4188:ARG:HH21	1.61	0.65
1:B:4546:VAL:HG22	1:B:4550:LYS:HE3	1.79	0.65
1:E:2768:PHE:HB2	1:E:2857:PRO:HD2	1.77	0.65
1:J:2637:ALA:HA	1:J:2640:PRO:HG2	1.78	0.65
1:B:3100:SER:HB3	1:B:3167:ARG:HD3	1.77	0.65
1:E:1101:ARG:HH12	1:E:1114:GLU:HB3	1.62	0.65
1:G:2980:VAL:HB	1:G:2986:VAL:HB	1.79	0.65
1:J:2454:ARG:HD2	1:J:2458:ARG:HH21	1.61	0.65
1:B:180:LEU:O	1:B:200:TRP:NE1	2.24	0.65
1:B:1101:ARG:HH12	1:B:1114:GLU:HB3	1.62	0.65
1:J:2902:HIS:CE1	1:J:2904:LEU:HB2	2.31	0.65
1:J:2980:VAL:HB	1:J:2986:VAL:HB	1.79	0.65
1:B:924:MET:HE2	3:C:107:TRP:HB2	1.78	0.65
1:B:2902:HIS:CE1	1:B:2904:LEU:HB2	2.31	0.65
1:G:2454:ARG:HD2	1:G:2458:ARG:HH21	1.61	0.65
1:J:103:TYR:HB2	1:J:159:GLU:HA	1.78	0.65
1:E:4183:ILE:HD12	1:E:4188:ARG:HH21	1.61	0.65
1:B:758:ARG:HH11	1:B:761:GLY:HA2	1.62	0.65
1:B:3187:ARG:HG3	1:B:3188:PRO:HD3	1.79	0.65
1:G:758:ARG:HH11	1:G:761:GLY:HA2	1.62	0.65
1:G:887:ILE:HD13	1:G:959:TYR:HB3	1.79	0.65
1:B:2980:VAL:HB	1:B:2986:VAL:HB	1.79	0.65
1:G:728:ARG:HE	1:G:1487:LEU:HD12	1.61	0.65
1:G:2768:PHE:HB2	1:G:2857:PRO:HD2	1.78	0.65
1:E:758:ARG:HH11	1:E:761:GLY:HA2	1.61	0.64
1:B:103:TYR:HB2	1:B:159:GLU:HA	1.78	0.64
1:B:178:ARG:HA	1:B:195:PHE:HD1	1.61	0.64
1:B:1519:LEU:HD11	1:B:1572:ILE:HD13	1.80	0.64
1:B:2454:ARG:HD2	1:B:2458:ARG:HH21	1.61	0.64
1:E:2980:VAL:HB	1:E:2986:VAL:HB	1.79	0.64
1:G:4546:VAL:HG22	1:G:4550:LYS:HE3	1.79	0.64
1:J:1101:ARG:HH12	1:J:1114:GLU:HB3	1.62	0.64
1:B:2813:LEU:HA	1:B:2816:MET:HG3	1.79	0.64
1:E:247:TYR:HB2	1:E:374:LYS:HD2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2454:ARG:HD2	1:E:2458:ARG:HH21	1.61	0.64
1:G:103:TYR:HB2	1:G:159:GLU:HA	1.78	0.64
1:J:2768:PHE:HB2	1:J:2857:PRO:HD2	1.77	0.64
1:J:3433:GLU:HA	1:J:3436:ARG:HD2	1.80	0.64
1:G:372:LEU:O	1:G:374:LYS:HG3	1.97	0.64
1:G:1101:ARG:HH12	1:G:1114:GLU:HB3	1.62	0.64
1:J:887:ILE:HD13	1:J:959:TYR:HB3	1.79	0.64
1:B:728:ARG:HE	1:B:1487:LEU:HD12	1.61	0.64
1:B:1291:LEU:HD12	1:B:1550:PRO:HG2	1.80	0.64
1:B:2768:PHE:HB2	1:B:2857:PRO:HD2	1.78	0.64
1:J:4183:ILE:HD12	1:J:4188:ARG:HH21	1.61	0.64
1:B:197:GLN:OE1	1:B:197:GLN:N	2.31	0.64
1:B:887:ILE:HD13	1:B:959:TYR:HB3	1.79	0.64
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.79	0.64
1:B:2214:VAL:HG13	1:B:2215:LEU:HD12	1.79	0.64
1:E:2431:ASP:HB2	1:E:2501:SER:HB2	1.80	0.64
1:E:3187:ARG:HG3	1:E:3188:PRO:HD3	1.79	0.64
1:E:3433:GLU:HA	1:E:3436:ARG:HD2	1.80	0.64
1:G:718:GLY:HA3	1:G:737:LEU:HA	1.80	0.64
1:G:3196:ARG:HH12	1:G:3341:PHE:HZ	1.46	0.64
1:J:622:THR:HG23	1:J:626:LEU:HD22	1.79	0.64
1:J:3187:ARG:HG3	1:J:3188:PRO:HD3	1.79	0.64
1:J:4546:VAL:HG22	1:J:4550:LYS:HE3	1.79	0.64
1:B:3433:GLU:HA	1:B:3436:ARG:HD2	1.80	0.64
1:G:197:GLN:OE1	1:G:197:GLN:N	2.30	0.64
1:G:4183:ILE:HD12	1:G:4188:ARG:HH21	1.61	0.64
1:J:197:GLN:OE1	1:J:197:GLN:N	2.30	0.64
1:J:2813:LEU:HA	1:J:2816:MET:HG3	1.79	0.64
1:J:3031:ALA:O	1:J:3036:LYS:NZ	2.27	0.64
1:B:3196:ARG:HH12	1:B:3341:PHE:HZ	1.46	0.64
1:E:601:ASP:OD1	1:E:1668:ARG:NH2	2.31	0.64
1:E:1291:LEU:HD12	1:E:1550:PRO:HG2	1.80	0.64
1:G:622:THR:HG23	1:G:626:LEU:HD22	1.79	0.64
1:G:1291:LEU:HD12	1:G:1550:PRO:HG2	1.80	0.64
1:G:2138:LEU:HB3	1:G:3658:LYS:HE2	1.80	0.64
1:J:728:ARG:HE	1:J:1487:LEU:HD12	1.61	0.64
1:J:3986:TRP:HB3	1:J:4047:MET:CE	2.28	0.64
1:B:622:THR:HG23	1:B:626:LEU:HD22	1.79	0.64
1:B:3031:ALA:O	1:B:3036:LYS:NZ	2.27	0.64
1:B:3078:ARG:HG3	1:B:3152:PHE:HD1	1.63	0.64
1:E:178:ARG:HA	1:E:195:PHE:HD1	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:728:ARG:HE	1:E:1487:LEU:HD12	1.61	0.64
1:G:601:ASP:OD1	1:G:1668:ARG:NH2	2.31	0.64
1:G:2214:VAL:HG13	1:G:2215:LEU:HD12	1.79	0.64
1:G:3021:PRO:HD3	1:G:3036:LYS:HZ3	1.62	0.64
1:J:1815:LEU:HD22	1:J:1845:VAL:HG21	1.79	0.64
1:J:2431:ASP:HB2	1:J:2501:SER:HB2	1.80	0.64
1:E:668:VAL:HG21	1:E:738:LEU:HD12	1.80	0.63
1:G:1815:LEU:HD22	1:G:1845:VAL:HG21	1.79	0.63
1:J:601:ASP:OD1	1:J:1668:ARG:NH2	2.31	0.63
1:B:668:VAL:HG21	1:B:738:LEU:HD12	1.80	0.63
1:E:165:VAL:O	1:E:203:ASN:ND2	2.31	0.63
1:E:365:LYS:HE2	1:E:369:LEU:HD21	1.79	0.63
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.79	0.63
1:G:913:LEU:HB3	1:G:917:GLU:HB2	1.80	0.63
1:G:3986:TRP:HB3	1:G:4047:MET:CE	2.28	0.63
1:J:1738:LEU:HB2	1:J:2146:PRO:HD3	1.79	0.63
1:J:2138:LEU:HB3	1:J:3658:LYS:HE2	1.80	0.63
1:B:82:LEU:HD11	1:B:144:GLU:HB3	1.79	0.63
1:G:663:TYR:OH	1:G:758:ARG:NH2	2.32	0.63
1:G:4712:PRO:HB2	1:G:4718:LYS:HA	1.80	0.63
1:J:913:LEU:HB3	1:J:917:GLU:HB2	1.80	0.63
1:J:1528:THR:HG23	1:J:1539:PHE:HE1	1.63	0.63
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.31	0.63
1:E:197:GLN:OE1	1:E:197:GLN:N	2.30	0.63
1:E:622:THR:HG23	1:E:626:LEU:HD22	1.79	0.63
1:E:663:TYR:OH	1:E:758:ARG:NH2	2.32	0.63
1:E:2214:VAL:HG13	1:E:2215:LEU:HD12	1.79	0.63
1:J:718:GLY:HA3	1:J:737:LEU:HA	1.80	0.63
1:J:2684:ASP:O	1:J:2688:HIS:ND1	2.32	0.63
1:B:913:LEU:HB3	1:B:917:GLU:HB2	1.80	0.63
1:B:1738:LEU:HB2	1:B:2146:PRO:HD3	1.79	0.63
1:E:1519:LEU:HD11	1:E:1572:ILE:HD13	1.80	0.63
1:E:2813:LEU:HA	1:E:2816:MET:HG3	1.79	0.63
1:G:3187:ARG:HG3	1:G:3188:PRO:HD3	1.79	0.63
1:J:1291:LEU:HD12	1:J:1550:PRO:HG2	1.80	0.63
1:J:3078:ARG:HG3	1:J:3152:PHE:HD1	1.63	0.63
1:E:718:GLY:HA3	1:E:737:LEU:HA	1.80	0.63
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.79	0.63
1:G:3078:ARG:HG3	1:G:3152:PHE:HD1	1.63	0.63
1:B:663:TYR:OH	1:B:758:ARG:NH2	2.32	0.63
1:B:1099:GLU:HA	1:B:1127:HIS:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2431:ASP:HB2	1:B:2501:SER:HB2	1.80	0.63
1:B:2599:GLN:O	1:B:2603:ILE:HG12	1.99	0.63
1:E:1815:LEU:HD22	1:E:1845:VAL:HG21	1.79	0.63
1:G:3433:GLU:HA	1:G:3436:ARG:HD2	1.80	0.63
1:J:82:LEU:HD11	1:J:144:GLU:HB3	1.79	0.63
1:J:1519:LEU:HD11	1:J:1572:ILE:HD13	1.80	0.63
1:E:2138:LEU:HB3	1:E:3658:LYS:HE2	1.80	0.63
1:E:2684:ASP:O	1:E:2688:HIS:ND1	2.32	0.63
1:G:82:LEU:HD11	1:G:144:GLU:HB3	1.79	0.63
1:G:1519:LEU:HD11	1:G:1572:ILE:HD13	1.80	0.63
1:B:165:VAL:O	1:B:203:ASN:ND2	2.32	0.63
1:B:2684:ASP:O	1:B:2688:HIS:ND1	2.32	0.63
1:E:887:ILE:HD13	1:E:959:TYR:HB3	1.80	0.63
1:E:3078:ARG:HG3	1:E:3152:PHE:HD1	1.63	0.63
1:J:365:LYS:HE2	1:J:369:LEU:HD21	1.80	0.63
1:J:4712:PRO:HB2	1:J:4718:LYS:HA	1.80	0.63
1:E:3986:TRP:HB3	1:E:4047:MET:CE	2.28	0.62
1:E:5013:MET:HE3	1:E:5018:CYS:HB3	1.80	0.62
1:G:2866:THR:O	1:G:2928:LYS:NZ	2.22	0.62
1:J:165:VAL:O	1:J:203:ASN:ND2	2.31	0.62
1:J:663:TYR:OH	1:J:758:ARG:NH2	2.32	0.62
1:B:917:GLU:HB3	3:C:104:TYR:HH	1.65	0.62
1:E:2582:MET:HA	1:E:2585:THR:HG22	1.81	0.62
1:G:165:VAL:O	1:G:203:ASN:ND2	2.32	0.62
1:G:2684:ASP:O	1:G:2688:HIS:ND1	2.32	0.62
1:J:2214:VAL:HG13	1:J:2215:LEU:HD12	1.79	0.62
1:B:2418:LEU:O	1:B:2422:ILE:HG12	2.00	0.62
1:G:2454:ARG:HG2	1:G:2458:ARG:HE	1.64	0.62
1:G:2582:MET:HA	1:G:2585:THR:HG22	1.82	0.62
1:B:2138:LEU:HB3	1:B:3658:LYS:HE2	1.80	0.62
1:B:2454:ARG:HG2	1:B:2458:ARG:HE	1.64	0.62
1:G:2431:ASP:HB2	1:G:2501:SER:HB2	1.80	0.62
1:J:2582:MET:HA	1:J:2585:THR:HG22	1.81	0.62
1:B:3986:TRP:HB3	1:B:4047:MET:CE	2.28	0.62
1:E:82:LEU:HD11	1:E:144:GLU:HB3	1.79	0.62
1:E:861:ILE:HG21	1:E:933:LEU:HD22	1.81	0.62
1:E:1099:GLU:HA	1:E:1127:HIS:HB2	1.80	0.62
1:E:2599:GLN:O	1:E:2603:ILE:HG12	1.99	0.62
1:G:1099:GLU:HA	1:G:1127:HIS:HB2	1.80	0.62
1:G:1528:THR:HG23	1:G:1539:PHE:HE1	1.63	0.62
1:G:2599:GLN:O	1:G:2603:ILE:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3962:PHE:CE2	1:G:4019:LEU:HD11	2.35	0.62
1:J:668:VAL:HG21	1:J:738:LEU:HD12	1.80	0.62
1:J:2599:GLN:O	1:J:2603:ILE:HG12	1.99	0.62
1:G:668:VAL:HG21	1:G:738:LEU:HD12	1.80	0.62
1:G:2902:HIS:HE1	1:G:2904:LEU:HB2	1.65	0.62
1:G:3981:ALA:HA	1:G:3986:TRP:HZ2	1.64	0.62
1:J:1099:GLU:HA	1:J:1127:HIS:HB2	1.80	0.62
1:B:718:GLY:HA3	1:B:737:LEU:HA	1.79	0.62
1:B:5013:MET:HE3	1:B:5018:CYS:HB3	1.82	0.62
1:E:913:LEU:HB3	1:E:917:GLU:HB2	1.80	0.62
1:E:2454:ARG:HG2	1:E:2458:ARG:HE	1.64	0.62
1:E:3592:ILE:HG12	1:E:3595:ARG:HH21	1.65	0.62
1:E:4712:PRO:HB2	1:E:4718:LYS:HA	1.80	0.62
1:G:3262:ARG:HG2	1:G:3329:ILE:HG21	1.82	0.62
1:J:3592:ILE:HG12	1:J:3595:ARG:HH21	1.65	0.62
1:B:365:LYS:HE2	1:B:369:LEU:HD21	1.80	0.62
1:G:861:ILE:HG21	1:G:933:LEU:HD22	1.81	0.62
1:G:2310:CYS:HB3	1:G:2313:LEU:HD23	1.82	0.62
1:G:2418:LEU:O	1:G:2422:ILE:HG12	2.00	0.62
1:B:2310:CYS:HB3	1:B:2313:LEU:HD23	1.82	0.62
1:B:2866:THR:O	1:B:2928:LYS:NZ	2.22	0.62
1:B:3962:PHE:HA	1:B:3965:LEU:HD12	1.82	0.62
1:B:3980:LEU:HD12	1:B:4030:LEU:HD21	1.82	0.62
1:B:3981:ALA:HA	1:B:3986:TRP:HZ2	1.65	0.62
1:B:4712:PRO:HB2	1:B:4718:LYS:HA	1.80	0.62
1:E:2418:LEU:O	1:E:2422:ILE:HG12	2.00	0.62
1:E:3196:ARG:HH12	1:E:3341:PHE:HZ	1.46	0.62
1:G:3594:ARG:NH2	1:G:3597:GLN:OE1	2.33	0.62
1:J:2310:CYS:HB3	1:J:2313:LEU:HD23	1.82	0.62
1:B:3021:PRO:HD3	1:B:3036:LYS:HZ3	1.65	0.62
1:E:985:VAL:HG22	1:E:1043:VAL:HG21	1.82	0.62
1:J:985:VAL:HG22	1:J:1043:VAL:HG21	1.82	0.62
1:J:1291:LEU:HD13	1:J:1595:LEU:HD11	1.81	0.62
1:J:2866:THR:O	1:J:2928:LYS:NZ	2.22	0.62
1:J:3980:LEU:HD12	1:J:4030:LEU:HD21	1.81	0.62
1:J:3981:ALA:HA	1:J:3986:TRP:HZ2	1.65	0.62
1:E:20:VAL:HG11	1:E:202:MET:SD	2.40	0.61
1:E:1528:THR:HG23	1:E:1539:PHE:HE1	1.63	0.61
1:G:1291:LEU:HD13	1:G:1595:LEU:HD11	1.81	0.61
1:J:2913:ALA:O	1:J:2917:ALA:N	2.24	0.61
1:B:1291:LEU:HD13	1:B:1595:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1694:LEU:HD11	1:B:1718:ILE:HD11	1.82	0.61
1:E:1694:LEU:HD11	1:E:1718:ILE:HD11	1.82	0.61
1:J:5013:MET:HE3	1:J:5018:CYS:HB3	1.82	0.61
1:B:2582:MET:HA	1:B:2585:THR:HG22	1.81	0.61
1:B:2764:GLU:HG2	1:B:2857:PRO:HD3	1.82	0.61
1:E:3980:LEU:HD12	1:E:4030:LEU:HD21	1.81	0.61
1:G:1547:LYS:NZ	1:G:1642:PRO:O	2.34	0.61
1:J:861:ILE:HG21	1:J:933:LEU:HD22	1.81	0.61
1:B:3262:ARG:HG2	1:B:3329:ILE:HG21	1.82	0.61
1:B:4892:ARG:HH11	1:E:4896:GLY:HA3	1.65	0.61
1:E:1291:LEU:HD13	1:E:1595:LEU:HD11	1.81	0.61
1:E:2764:GLU:HG2	1:E:2857:PRO:HD3	1.82	0.61
1:J:2265:LEU:HD21	1:J:2272:PRO:HG2	1.82	0.61
1:J:3196:ARG:HH12	1:J:3341:PHE:HZ	1.46	0.61
1:J:4072:VAL:O	1:J:4078:GLN:NE2	2.34	0.61
1:E:3282:PRO:HG3	1:E:3345:ILE:HD13	1.83	0.61
1:B:3594:ARG:NH2	1:B:3597:GLN:OE1	2.33	0.61
1:B:4072:VAL:O	1:B:4078:GLN:NE2	2.34	0.61
1:E:1547:LYS:NZ	1:E:1642:PRO:O	2.34	0.61
1:E:2902:HIS:HE1	1:E:2904:LEU:HB2	1.65	0.61
1:E:4072:VAL:O	1:E:4078:GLN:NE2	2.34	0.61
1:G:247:TYR:HE2	1:G:359:TYR:HA	1.66	0.61
1:J:20:VAL:HG11	1:J:202:MET:SD	2.40	0.61
1:J:3262:ARG:HG2	1:J:3329:ILE:HG21	1.82	0.61
1:E:3962:PHE:HA	1:E:3965:LEU:HD12	1.82	0.61
1:B:1547:LYS:NZ	1:B:1642:PRO:O	2.34	0.61
1:B:2902:HIS:HE1	1:B:2904:LEU:HB2	1.65	0.61
1:B:3592:ILE:HG12	1:B:3595:ARG:HH21	1.65	0.61
1:E:4864:ASN:ND2	1:E:4871:GLU:OE2	2.33	0.61
1:G:2764:GLU:HG2	1:G:2857:PRO:HD3	1.82	0.61
1:G:4072:VAL:O	1:G:4078:GLN:NE2	2.34	0.61
1:G:4864:ASN:ND2	1:G:4871:GLU:OE2	2.33	0.61
2:A:87:HIS:HB2	2:A:90:VAL:HG22	1.83	0.61
1:B:3967:GLU:HA	1:B:3970:GLN:CG	2.30	0.61
1:E:2746:ILE:HA	1:E:2814:LYS:HE3	1.82	0.61
1:G:985:VAL:HG22	1:G:1043:VAL:HG21	1.82	0.61
1:G:4896:GLY:HA3	1:J:4892:ARG:HH11	1.65	0.61
1:J:3962:PHE:HA	1:J:3965:LEU:HD12	1.82	0.61
1:J:4864:ASN:ND2	1:J:4871:GLU:OE2	2.33	0.61
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.82	0.61
1:B:1528:THR:HG23	1:B:1539:PHE:HE1	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2746:ILE:HA	1:B:2814:LYS:HE3	1.82	0.61
1:G:20:VAL:HG11	1:G:202:MET:SD	2.40	0.61
2:H:87:HIS:HB2	2:H:90:VAL:HG22	1.83	0.61
1:B:2299:VAL:HG12	1:B:2360:LYS:HD2	1.83	0.60
1:E:2310:CYS:HB3	1:E:2313:LEU:HD23	1.82	0.60
1:G:917:GLU:HB3	3:M:104:TYR:HH	1.65	0.60
1:G:3592:ILE:HG12	1:G:3595:ARG:HH21	1.65	0.60
1:B:20:VAL:HG11	1:B:202:MET:SD	2.40	0.60
1:E:3262:ARG:HG2	1:E:3329:ILE:HG21	1.82	0.60
1:J:1547:LYS:NZ	1:J:1642:PRO:O	2.34	0.60
1:J:2764:GLU:HG2	1:J:2857:PRO:HD3	1.82	0.60
2:I:87:HIS:HB2	2:I:90:VAL:HG22	1.83	0.60
1:B:840:VAL:HG12	1:B:1199:VAL:HG12	1.84	0.60
1:B:4864:ASN:ND2	1:B:4871:GLU:OE2	2.33	0.60
1:J:3282:PRO:HG3	1:J:3345:ILE:HD13	1.83	0.60
2:D:87:HIS:HB2	2:D:90:VAL:HG22	1.83	0.60
1:E:4892:ARG:HH11	1:J:4896:GLY:HA3	1.67	0.60
1:G:1694:LEU:HD11	1:G:1718:ILE:HD11	1.82	0.60
1:G:2265:LEU:HD21	1:G:2272:PRO:HG2	1.82	0.60
1:G:2746:ILE:HA	1:G:2814:LYS:HE3	1.82	0.60
1:J:2454:ARG:HG2	1:J:2458:ARG:HE	1.64	0.60
1:J:2746:ILE:HA	1:J:2814:LYS:HE3	1.82	0.60
1:B:2265:LEU:HD21	1:B:2272:PRO:HG2	1.82	0.60
1:E:2265:LEU:HD21	1:E:2272:PRO:HG2	1.82	0.60
1:J:840:VAL:HG12	1:J:1199:VAL:HG12	1.84	0.60
1:J:4876:CYS:HA	1:J:4882:CYS:HB2	1.83	0.60
1:B:861:ILE:HG21	1:B:933:LEU:HD22	1.81	0.60
1:G:3031:ALA:O	1:G:3036:LYS:NZ	2.27	0.60
1:G:3282:PRO:HG3	1:G:3345:ILE:HD13	1.82	0.60
1:J:1694:LEU:HD11	1:J:1718:ILE:HD11	1.82	0.60
1:B:952:LYS:HA	1:B:970:LEU:HA	1.84	0.60
1:B:3282:PRO:HG3	1:B:3345:ILE:HD13	1.82	0.60
1:E:840:VAL:HG12	1:E:1199:VAL:HG12	1.84	0.60
1:E:952:LYS:HA	1:E:970:LEU:HA	1.84	0.60
1:E:4876:CYS:HA	1:E:4882:CYS:HB2	1.83	0.60
1:G:2299:VAL:HG12	1:G:2360:LYS:HD2	1.83	0.60
1:J:2418:LEU:O	1:J:2422:ILE:HG12	2.00	0.60
1:E:3981:ALA:HA	1:E:3986:TRP:HZ2	1.65	0.60
1:J:2902:HIS:HE1	1:J:2904:LEU:HB2	1.65	0.60
1:B:4983:HIS:O	5:B:5102:ATP:N6	2.35	0.60
1:E:2299:VAL:HG12	1:E:2360:LYS:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3967:GLU:HA	1:G:3970:GLN:CG	2.30	0.60
1:B:3391:GLU:O	1:B:3395:ARG:HG3	2.02	0.60
1:E:2470:ILE:HB	1:E:2502:MET:HE3	1.84	0.60
1:G:2882:TYR:HB3	1:G:2886:TRP:CZ3	2.36	0.60
1:J:595:ARG:NH1	1:J:1643:GLU:OE2	2.35	0.60
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	1.83	0.59
1:E:3594:ARG:NH2	1:E:3597:GLN:OE1	2.33	0.59
1:G:4983:HIS:O	5:G:5102:ATP:N6	2.35	0.59
1:J:35:LEU:HG	1:J:51:PRO:HA	1.84	0.59
2:I:10:GLY:HA3	2:I:70:GLN:HB2	1.84	0.59
3:F:122:GLN:NE2	3:F:124:THR:OG1	2.34	0.59
1:E:3208:PRO:HB3	1:E:3236:VAL:HB	1.84	0.59
1:E:3391:GLU:O	1:E:3395:ARG:HG3	2.02	0.59
1:E:3669:PHE:CE1	1:E:3672:ARG:HB3	2.38	0.59
1:G:840:VAL:HG12	1:G:1199:VAL:HG12	1.84	0.59
1:G:3346:VAL:HG13	1:G:3414:ARG:HG2	1.85	0.59
1:G:3531:ASP:HA	1:G:3534:MET:SD	2.42	0.59
2:D:10:GLY:HA3	2:D:70:GLN:HB2	1.84	0.59
1:B:2882:TYR:HB3	1:B:2886:TRP:CZ3	2.36	0.59
1:B:3346:VAL:HG13	1:B:3414:ARG:HG2	1.85	0.59
1:E:35:LEU:HG	1:E:51:PRO:HA	1.84	0.59
1:G:247:TYR:HB2	1:G:374:LYS:HD2	1.83	0.59
1:J:917:GLU:HB3	3:K:104:TYR:HH	1.67	0.59
1:J:3669:PHE:CE1	1:J:3672:ARG:HB3	2.38	0.59
1:B:2495:VAL:HG22	1:B:2497:ASP:H	1.68	0.59
1:E:2866:THR:O	1:E:2928:LYS:NZ	2.22	0.59
1:E:3539:ARG:HD3	1:E:3542:LEU:HD12	1.85	0.59
1:E:3757:GLU:O	1:E:3761:GLN:HG2	2.02	0.59
1:G:3208:PRO:HB3	1:G:3236:VAL:HB	1.84	0.59
1:J:2642:LYS:HE3	1:J:2646:ASN:HD21	1.68	0.59
1:J:2882:TYR:HB3	1:J:2886:TRP:CZ3	2.36	0.59
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.37	0.59
1:B:3531:ASP:HA	1:B:3534:MET:SD	2.42	0.59
1:J:870:ILE:O	1:J:874:LEU:HG	2.02	0.59
1:J:952:LYS:HA	1:J:970:LEU:HA	1.84	0.59
2:H:10:GLY:HA3	2:H:70:GLN:HB2	1.84	0.59
1:E:3346:VAL:HG13	1:E:3414:ARG:HG2	1.84	0.59
1:G:870:ILE:O	1:G:874:LEU:HG	2.02	0.59
1:G:3669:PHE:CE1	1:G:3672:ARG:HB3	2.38	0.59
1:J:3594:ARG:NH2	1:J:3597:GLN:OE1	2.33	0.59
1:B:870:ILE:O	1:B:874:LEU:HG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.37	0.59
1:B:4896:GLY:HA3	1:G:4892:ARG:HH11	1.67	0.59
1:E:870:ILE:O	1:E:874:LEU:HG	2.02	0.59
1:E:917:GLU:HB3	3:F:104:TYR:HH	1.67	0.59
1:E:3457:ASN:HA	1:E:3460:VAL:HG12	1.84	0.59
1:G:3457:ASN:HA	1:G:3460:VAL:HG12	1.84	0.59
1:J:3531:ASP:HA	1:J:3534:MET:SD	2.42	0.59
1:B:35:LEU:HG	1:B:51:PRO:HA	1.84	0.59
1:B:1465:ASP:OD1	1:B:1466:LEU:N	2.36	0.59
1:B:2624:ARG:HH22	1:B:2912:THR:HG22	1.68	0.59
1:E:3981:ALA:HA	1:E:3986:TRP:CZ2	2.37	0.59
1:E:4817:ALA:HB1	1:E:4827:LEU:HD11	1.85	0.59
1:E:4983:HIS:O	5:E:5102:ATP:N6	2.35	0.59
1:G:4876:CYS:HA	1:G:4882:CYS:HB2	1.83	0.59
1:B:2642:LYS:HE3	1:B:2646:ASN:HD21	1.68	0.59
1:B:3208:PRO:HB3	1:B:3236:VAL:HB	1.84	0.59
1:B:4817:ALA:HB1	1:B:4827:LEU:HD11	1.85	0.59
1:E:942:ALA:HB2	1:E:1052:ASN:HB3	1.85	0.59
1:G:952:LYS:HA	1:G:970:LEU:HA	1.84	0.59
1:J:2299:VAL:HG12	1:J:2360:LYS:HD2	1.83	0.59
1:J:3346:VAL:HG13	1:J:3414:ARG:HG2	1.84	0.59
1:B:3539:ARG:HD3	1:B:3542:LEU:HD12	1.85	0.59
1:E:2624:ARG:HH22	1:E:2912:THR:HG22	1.68	0.59
1:G:35:LEU:HG	1:G:51:PRO:HA	1.84	0.59
1:G:595:ARG:NH1	1:G:1643:GLU:OE2	2.35	0.59
1:J:246:TYR:CD1	1:J:375:LYS:HA	2.37	0.59
1:E:2642:LYS:HE3	1:E:2646:ASN:HD21	1.68	0.58
1:G:58:VAL:HG12	1:G:305:CYS:HA	1.85	0.58
1:G:2202:GLY:HA2	1:G:2204:HIS:CE1	2.38	0.58
1:G:3416:VAL:O	1:G:3420:ARG:HB2	2.03	0.58
1:G:3962:PHE:HE2	1:G:4019:LEU:HD11	1.68	0.58
1:G:3981:ALA:HA	1:G:3986:TRP:CZ2	2.37	0.58
1:J:3539:ARG:HD3	1:J:3542:LEU:HD12	1.85	0.58
1:J:3981:ALA:HA	1:J:3986:TRP:CZ2	2.37	0.58
1:J:4817:ALA:HB1	1:J:4827:LEU:HD11	1.85	0.58
1:J:4983:HIS:O	5:J:5102:ATP:N6	2.35	0.58
1:B:631:LEU:HD22	1:B:1594:ARG:HH12	1.68	0.58
1:B:942:ALA:HB2	1:B:1052:ASN:HB3	1.85	0.58
1:B:3669:PHE:CE1	1:B:3672:ARG:HB3	2.38	0.58
1:G:1032:LYS:HB3	1:G:1036:ARG:HH22	1.68	0.58
1:G:1786:LEU:HD12	1:G:1787:PRO:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:58:VAL:HG12	1:J:305:CYS:HA	1.85	0.58
1:B:3846:ALA:HB1	1:B:3873:LYS:HG2	1.86	0.58
1:E:3531:ASP:HA	1:E:3534:MET:SD	2.42	0.58
1:J:1465:ASP:OD1	1:J:1466:LEU:N	2.36	0.58
1:J:3457:ASN:HA	1:J:3460:VAL:HG12	1.84	0.58
1:B:58:VAL:HG12	1:B:305:CYS:HA	1.85	0.58
1:B:2651:CYS:HB3	1:B:2654:TYR:HB3	1.85	0.58
1:E:2651:CYS:HB3	1:E:2654:TYR:HB3	1.85	0.58
1:G:924:MET:HE2	3:M:107:TRP:HB2	1.85	0.58
1:G:2642:LYS:HE3	1:G:2646:ASN:HD21	1.68	0.58
1:J:2961:GLN:HA	1:J:2964:LEU:HD12	1.86	0.58
1:B:675:LEU:HG	1:B:676:THR:HG23	1.86	0.58
1:B:3416:VAL:O	1:B:3420:ARG:HB2	2.04	0.58
1:E:3227:ARG:HB3	1:E:3232:LEU:HB2	1.86	0.58
1:G:360:ALA:HB3	1:G:375:LYS:HB3	1.85	0.58
1:G:2495:VAL:HG22	1:G:2497:ASP:H	1.68	0.58
1:J:1032:LYS:HB3	1:J:1036:ARG:HH22	1.68	0.58
1:J:2495:VAL:HG22	1:J:2497:ASP:H	1.68	0.58
1:J:2624:ARG:HH22	1:J:2912:THR:HG22	1.68	0.58
3:K:105:ASN:HD21	3:K:111:ASN:HB2	1.68	0.58
1:B:1862:ILE:O	1:B:1866:ILE:HG13	2.04	0.58
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	1.86	0.58
1:B:3757:GLU:O	1:B:3761:GLN:HG2	2.02	0.58
1:E:1465:ASP:OD1	1:E:1466:LEU:N	2.36	0.58
1:E:2961:GLN:HA	1:E:2964:LEU:HD12	1.86	0.58
1:G:748:LEU:HD13	1:G:755:ILE:HG12	1.86	0.58
1:G:3757:GLU:O	1:G:3761:GLN:HG2	2.03	0.58
1:J:631:LEU:HD22	1:J:1594:ARG:HH12	1.68	0.58
1:J:3227:ARG:HB3	1:J:3232:LEU:HB2	1.86	0.58
1:B:1786:LEU:HD12	1:B:1787:PRO:HD2	1.85	0.58
1:B:3227:ARG:HB3	1:B:3232:LEU:HB2	1.86	0.58
1:E:1032:LYS:HB3	1:E:1036:ARG:HH22	1.68	0.58
1:E:3967:GLU:HA	1:E:3970:GLN:CG	2.30	0.58
1:G:574:VAL:HA	1:G:577:ILE:HG22	1.85	0.58
1:G:1503:PRO:O	1:G:1534:LYS:NZ	2.36	0.58
1:G:1721:GLU:OE2	1:G:1725:ARG:NH2	2.36	0.58
1:G:3227:ARG:HB3	1:G:3232:LEU:HB2	1.86	0.58
1:J:3416:VAL:O	1:J:3420:ARG:HB2	2.03	0.58
2:A:10:GLY:HA3	2:A:70:GLN:HB2	1.84	0.58
1:B:1032:LYS:HB3	1:B:1036:ARG:HH22	1.68	0.58
1:B:2202:GLY:HA2	1:B:2204:HIS:CE1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:58:VAL:HG12	1:E:305:CYS:HA	1.85	0.58
1:E:574:VAL:HA	1:E:577:ILE:HG22	1.85	0.58
1:E:1503:PRO:O	1:E:1534:LYS:NZ	2.36	0.58
1:E:2257:LEU:HD22	1:E:2272:PRO:HB3	1.86	0.58
1:E:3846:ALA:HB1	1:E:3873:LYS:HG2	1.86	0.58
1:E:3900:GLN:HB3	1:E:3976:ASN:HD21	1.69	0.58
1:G:631:LEU:HD22	1:G:1594:ARG:HH12	1.68	0.58
1:G:2874:MET:HE1	1:G:2939:ARG:HG3	1.86	0.58
1:G:3391:GLU:O	1:G:3395:ARG:HG3	2.03	0.58
1:G:3539:ARG:HD3	1:G:3542:LEU:HD12	1.85	0.58
1:J:3391:GLU:O	1:J:3395:ARG:HG3	2.02	0.58
2:A:30:LEU:HB2	2:A:34:LYS:HB2	1.86	0.58
2:H:30:LEU:HB2	2:H:34:LYS:HB2	1.86	0.58
1:B:904:HIS:HD2	1:B:907:LEU:H	1.51	0.58
1:B:2325:PRO:O	1:B:2329:GLU:HG2	2.04	0.58
1:B:3457:ASN:HA	1:B:3460:VAL:HG12	1.84	0.58
1:E:3416:VAL:O	1:E:3420:ARG:HB2	2.03	0.58
1:G:2624:ARG:HH22	1:G:2912:THR:HG22	1.68	0.58
1:G:3846:ALA:HB1	1:G:3873:LYS:HG2	1.86	0.58
1:G:5013:MET:HE3	1:G:5018:CYS:HB3	1.86	0.58
1:J:1862:ILE:O	1:J:1866:ILE:HG13	2.03	0.58
1:J:3208:PRO:HB3	1:J:3236:VAL:HB	1.84	0.58
2:I:30:LEU:HB2	2:I:34:LYS:HB2	1.86	0.58
3:K:122:GLN:NE2	3:K:124:THR:OG1	2.34	0.58
1:B:294:THR:HG23	1:B:297:GLN:H	1.69	0.58
1:E:631:LEU:HD22	1:E:1594:ARG:HH12	1.68	0.58
1:J:1503:PRO:O	1:J:1534:LYS:NZ	2.36	0.58
1:J:2202:GLY:HA2	1:J:2204:HIS:CE1	2.39	0.58
1:J:2325:PRO:O	1:J:2329:GLU:HG2	2.04	0.58
2:D:30:LEU:HB2	2:D:34:LYS:HB2	1.86	0.58
1:B:544:LEU:HD12	1:B:574:VAL:HB	1.86	0.57
1:B:2257:LEU:HD22	1:B:2272:PRO:HB3	1.86	0.57
1:B:2881:ASN:HA	1:B:2884:ASN:ND2	2.20	0.57
1:G:1973:GLN:HE22	1:G:3641:LEU:H	1.52	0.57
1:G:4817:ALA:HB1	1:G:4827:LEU:HD11	1.85	0.57
1:J:748:LEU:HD13	1:J:755:ILE:HG12	1.86	0.57
1:B:574:VAL:HA	1:B:577:ILE:HG22	1.85	0.57
1:B:3900:GLN:HB3	1:B:3976:ASN:HD21	1.69	0.57
1:E:2881:ASN:HA	1:E:2884:ASN:ND2	2.19	0.57
1:G:942:ALA:HB2	1:G:1052:ASN:HB3	1.85	0.57
1:G:2325:PRO:O	1:G:2329:GLU:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4952:GLU:O	1:G:4956:THR:HG23	2.05	0.57
1:J:942:ALA:HB2	1:J:1052:ASN:HB3	1.85	0.57
1:J:981:GLN:O	1:J:985:VAL:HG23	2.04	0.57
1:J:1973:GLN:HE22	1:J:3641:LEU:H	1.52	0.57
1:B:3835:LEU:HD22	1:B:3880:PHE:HZ	1.70	0.57
1:E:544:LEU:HD12	1:E:574:VAL:HB	1.86	0.57
1:E:2202:GLY:HA2	1:E:2204:HIS:CE1	2.39	0.57
1:E:2882:TYR:HB3	1:E:2886:TRP:CZ3	2.36	0.57
1:E:1862:ILE:O	1:E:1866:ILE:HG13	2.03	0.57
1:G:1465:ASP:OD1	1:G:1466:LEU:N	2.36	0.57
1:G:2881:ASN:HA	1:G:2884:ASN:ND2	2.19	0.57
1:G:3835:LEU:HD22	1:G:3880:PHE:HZ	1.70	0.57
1:J:1786:LEU:HD12	1:J:1787:PRO:HD2	1.85	0.57
1:J:2881:ASN:HA	1:J:2884:ASN:ND2	2.19	0.57
1:E:294:THR:HG23	1:E:297:GLN:H	1.69	0.57
1:G:365:LYS:HE2	1:G:369:LEU:HD21	1.86	0.57
1:G:2961:GLN:HA	1:G:2964:LEU:HD12	1.86	0.57
1:J:904:HIS:HD2	1:J:907:LEU:H	1.51	0.57
1:J:3900:GLN:HB3	1:J:3976:ASN:HD21	1.69	0.57
1:B:595:ARG:NH1	1:B:1643:GLU:OE2	2.35	0.57
1:B:981:GLN:O	1:B:985:VAL:HG23	2.04	0.57
1:B:1973:GLN:HE22	1:B:3641:LEU:H	1.52	0.57
1:B:2768:PHE:O	1:B:2772:GLN:HG2	2.05	0.57
1:E:983:THR:HB	1:E:987:ARG:HH12	1.70	0.57
1:G:981:GLN:O	1:G:985:VAL:HG23	2.04	0.57
1:G:1449:TRP:HB3	1:G:1494:MET:HG3	1.87	0.57
1:J:2651:CYS:HB3	1:J:2654:TYR:HB3	1.85	0.57
1:J:3757:GLU:O	1:J:3761:GLN:HG2	2.03	0.57
1:J:3967:GLU:HA	1:J:3970:GLN:CG	2.30	0.57
1:B:4952:GLU:O	1:B:4956:THR:HG23	2.05	0.57
1:E:595:ARG:NH1	1:E:1643:GLU:OE2	2.35	0.57
1:E:675:LEU:HG	1:E:676:THR:HG23	1.86	0.57
1:E:2768:PHE:O	1:E:2772:GLN:HG2	2.05	0.57
1:J:574:VAL:HA	1:J:577:ILE:HG22	1.85	0.57
1:J:3846:ALA:HB1	1:J:3873:LYS:HG2	1.86	0.57
1:E:1973:GLN:HE22	1:E:3641:LEU:H	1.52	0.57
1:G:1862:ILE:O	1:G:1866:ILE:HG13	2.04	0.57
1:J:1232:ARG:NH2	1:J:1828:ASP:O	2.37	0.57
1:J:2768:PHE:O	1:J:2772:GLN:HG2	2.05	0.57
1:J:3270:ILE:H	1:J:3270:ILE:HD12	1.70	0.57
1:J:3835:LEU:HD22	1:J:3880:PHE:HZ	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4676:GLU:O	1:J:4680:LYS:HG2	2.05	0.57
3:F:105:ASN:HD21	3:F:111:ASN:HB2	1.68	0.57
3:M:105:ASN:HD21	3:M:111:ASN:HB2	1.68	0.57
1:B:3018:LEU:HB2	1:B:3074:SER:HA	1.87	0.57
1:E:2495:VAL:HG22	1:E:2497:ASP:H	1.68	0.57
1:G:675:LEU:HG	1:G:676:THR:HG23	1.86	0.57
1:J:3695:PRO:HB2	1:J:3699:HIS:HB3	1.87	0.57
1:B:1102:VAL:HG11	1:B:1149:VAL:HG11	1.87	0.57
1:E:1206:GLN:HE22	1:E:1233:PRO:HA	1.70	0.57
1:G:294:THR:HG23	1:G:297:GLN:H	1.69	0.57
1:G:983:THR:HB	1:G:987:ARG:HH12	1.69	0.57
1:G:2651:CYS:HB3	1:G:2654:TYR:HB3	1.85	0.57
1:G:2768:PHE:O	1:G:2772:GLN:HG2	2.05	0.57
1:G:3695:PRO:HB2	1:G:3699:HIS:HB3	1.87	0.57
1:B:748:LEU:HD13	1:B:755:ILE:HG12	1.86	0.56
1:B:2751:LEU:O	1:B:2755:ILE:HG12	2.05	0.56
1:E:16:THR:HB	1:E:98:HIS:HA	1.87	0.56
1:E:981:GLN:O	1:E:985:VAL:HG23	2.04	0.56
1:E:1679:ASN:ND2	1:E:1797:ARG:O	2.37	0.56
1:G:3043:PHE:HA	1:G:3071:LEU:HD13	1.87	0.56
1:J:3413:ILE:HG23	1:J:3516:LYS:HE2	1.87	0.56
1:B:16:THR:HB	1:B:98:HIS:HA	1.87	0.56
1:B:1449:TRP:HB3	1:B:1494:MET:HG3	1.87	0.56
1:E:748:LEU:HD13	1:E:755:ILE:HG12	1.86	0.56
1:E:904:HIS:HD2	1:E:907:LEU:H	1.51	0.56
1:E:3158:LEU:O	1:E:3162:GLN:NE2	2.38	0.56
1:E:3413:ILE:HG23	1:E:3516:LYS:HE2	1.87	0.56
1:E:3835:LEU:HD22	1:E:3880:PHE:HZ	1.70	0.56
1:G:1023:PRO:HD2	1:G:1026:LEU:HD22	1.88	0.56
1:G:3312:LEU:HB2	1:G:3345:ILE:HD11	1.87	0.56
1:G:5009:TYR:HA	1:G:5012:LYS:HE3	1.87	0.56
1:J:294:THR:HG23	1:J:297:GLN:H	1.69	0.56
1:J:675:LEU:HG	1:J:676:THR:HG23	1.86	0.56
1:J:1023:PRO:HD2	1:J:1026:LEU:HD22	1.87	0.56
1:J:3158:LEU:O	1:J:3162:GLN:NE2	2.38	0.56
1:B:1206:GLN:HE22	1:B:1233:PRO:HA	1.70	0.56
1:B:3312:LEU:HB2	1:B:3345:ILE:HD11	1.87	0.56
1:B:4676:GLU:O	1:B:4680:LYS:HG2	2.05	0.56
1:E:1786:LEU:HD12	1:E:1787:PRO:HD2	1.85	0.56
1:E:2131:LEU:HD11	1:E:3662:ILE:HG12	1.88	0.56
1:E:2325:PRO:O	1:E:2329:GLU:HG2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2751:LEU:O	1:E:2755:ILE:HG12	2.05	0.56
1:E:3270:ILE:H	1:E:3270:ILE:HD12	1.70	0.56
1:E:3312:LEU:HB2	1:E:3345:ILE:HD11	1.88	0.56
1:E:4952:GLU:O	1:E:4956:THR:HG23	2.05	0.56
1:G:544:LEU:HD12	1:G:574:VAL:HB	1.86	0.56
1:J:544:LEU:HD12	1:J:574:VAL:HB	1.86	0.56
1:J:1206:GLN:HE22	1:J:1233:PRO:HA	1.70	0.56
1:J:1721:GLU:OE2	1:J:1725:ARG:NH2	2.36	0.56
1:J:2257:LEU:HD22	1:J:2272:PRO:HB3	1.86	0.56
1:J:4952:GLU:O	1:J:4956:THR:HG23	2.05	0.56
1:J:5009:TYR:HA	1:J:5012:LYS:HE3	1.87	0.56
3:M:122:GLN:NE2	3:M:124:THR:OG1	2.34	0.56
1:B:365:LYS:O	1:B:369:LEU:HG	2.06	0.56
1:B:2131:LEU:HD11	1:B:3662:ILE:HG12	1.88	0.56
1:E:2527:LEU:HD11	1:E:2582:MET:HB3	1.88	0.56
1:E:3065:VAL:O	1:E:3069:HIS:ND1	2.38	0.56
1:G:2257:LEU:HD22	1:G:2272:PRO:HB3	1.86	0.56
1:G:3270:ILE:H	1:G:3270:ILE:HD12	1.70	0.56
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.06	0.56
1:B:3065:VAL:O	1:B:3069:HIS:ND1	2.39	0.56
1:B:3219:TYR:OH	1:B:3235:SER:N	2.39	0.56
1:B:3695:PRO:HB2	1:B:3699:HIS:HB3	1.87	0.56
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.41	0.56
1:E:3018:LEU:HB2	1:E:3074:SER:HA	1.87	0.56
1:E:3800:LEU:O	1:E:3804:ILE:HG12	2.06	0.56
1:G:883:ALA:HA	1:G:886:ARG:HE	1.70	0.56
1:G:3158:LEU:O	1:G:3162:GLN:NE2	2.38	0.56
1:J:883:ALA:HA	1:J:886:ARG:HE	1.70	0.56
3:C:105:ASN:HD21	3:C:111:ASN:HB2	1.70	0.56
1:B:2364:PHE:HD1	1:B:2429:LEU:HD21	1.71	0.56
1:B:3158:LEU:O	1:B:3162:GLN:NE2	2.38	0.56
1:E:844:ARG:HE	1:E:845:CYS:H	1.54	0.56
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.06	0.56
1:G:3065:VAL:O	1:G:3069:HIS:ND1	2.38	0.56
1:J:3312:LEU:HB2	1:J:3345:ILE:HD11	1.87	0.56
3:C:122:GLN:NE2	3:C:124:THR:OG1	2.34	0.56
1:B:1240:LYS:HE3	1:B:1242:LEU:HB3	1.87	0.56
1:B:1503:PRO:O	1:B:1534:LYS:NZ	2.36	0.56
1:B:3270:ILE:H	1:B:3270:ILE:HD12	1.70	0.56
1:B:3800:LEU:O	1:B:3804:ILE:HG12	2.06	0.56
1:E:1102:VAL:HG11	1:E:1149:VAL:HG11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3695:PRO:HB2	1:E:3699:HIS:HB3	1.87	0.56
1:E:3768:SER:HA	1:E:3771:HIS:CD2	2.41	0.56
1:G:904:HIS:HD2	1:G:907:LEU:H	1.51	0.56
1:G:1206:GLN:HE22	1:G:1233:PRO:HA	1.70	0.56
1:G:2449:GLU:O	1:G:2453:ILE:HG12	2.06	0.56
1:G:3018:LEU:HB2	1:G:3074:SER:HA	1.87	0.56
1:J:2131:LEU:HD11	1:J:3662:ILE:HG12	1.88	0.56
1:J:3065:VAL:O	1:J:3069:HIS:ND1	2.38	0.56
1:J:3940:LYS:O	1:J:4002:LYS:NZ	2.36	0.56
1:B:983:THR:HB	1:B:987:ARG:HH12	1.70	0.56
1:B:3413:ILE:HG23	1:B:3516:LYS:HE2	1.87	0.56
1:E:3043:PHE:HA	1:E:3071:LEU:HD13	1.87	0.56
1:E:4676:GLU:O	1:E:4680:LYS:HG2	2.05	0.56
1:G:2527:LEU:HD11	1:G:2582:MET:HB3	1.88	0.56
1:J:16:THR:HB	1:J:98:HIS:HA	1.87	0.56
1:J:3219:TYR:OH	1:J:3235:SER:N	2.39	0.56
1:B:2527:LEU:HD11	1:B:2582:MET:HB3	1.88	0.56
1:E:1023:PRO:HD2	1:E:1026:LEU:HD22	1.87	0.56
1:E:1721:GLU:OE2	1:E:1725:ARG:NH2	2.36	0.56
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.06	0.56
1:G:499:THR:HG23	1:G:502:HIS:H	1.71	0.56
1:G:2364:PHE:HD1	1:G:2429:LEU:HD21	1.71	0.56
1:G:3413:ILE:HG23	1:G:3516:LYS:HE2	1.87	0.56
1:J:1240:LYS:HE3	1:J:1242:LEU:HB3	1.87	0.56
1:J:3768:SER:HA	1:J:3771:HIS:CD2	2.41	0.56
1:B:844:ARG:HE	1:B:845:CYS:H	1.54	0.56
1:B:1155:LEU:HD22	1:B:1184:ILE:HG12	1.88	0.56
1:E:1449:TRP:HB3	1:E:1494:MET:HG3	1.87	0.56
1:E:2238:TYR:O	1:E:2242:ILE:HG12	2.06	0.56
1:G:1782:PHE:O	2:H:82:TYR:OH	2.22	0.56
1:G:3800:LEU:O	1:G:3804:ILE:HG12	2.06	0.56
1:G:4673:ARG:NH2	1:G:4702:ASP:OD1	2.39	0.56
1:G:4676:GLU:O	1:G:4680:LYS:HG2	2.05	0.56
1:J:2449:GLU:O	1:J:2453:ILE:HG12	2.06	0.56
1:J:2751:LEU:O	1:J:2755:ILE:HG12	2.05	0.56
1:B:1023:PRO:HD2	1:B:1026:LEU:HD22	1.88	0.55
1:B:2626:LEU:HG	1:B:2640:PRO:HB3	1.88	0.55
1:B:3043:PHE:HA	1:B:3071:LEU:HD13	1.87	0.55
1:E:2449:GLU:O	1:E:2453:ILE:HG12	2.06	0.55
1:E:4673:ARG:NH2	1:E:4702:ASP:OD1	2.39	0.55
1:G:2238:TYR:O	1:G:2242:ILE:HG12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2751:LEU:O	1:G:2755:ILE:HG12	2.05	0.55
1:J:499:THR:HG23	1:J:502:HIS:H	1.71	0.55
1:J:983:THR:HB	1:J:987:ARG:HH12	1.69	0.55
1:J:1449:TRP:HB3	1:J:1494:MET:HG3	1.87	0.55
1:J:2123:LEU:O	1:J:2127:GLN:HG2	2.06	0.55
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.06	0.55
1:B:3847:PHE:HB2	1:B:3874:VAL:HG12	1.87	0.55
1:E:3021:PRO:HD3	1:E:3036:LYS:HZ3	1.71	0.55
1:G:844:ARG:HE	1:G:845:CYS:H	1.54	0.55
1:G:1102:VAL:HG11	1:G:1149:VAL:HG11	1.87	0.55
1:J:365:LYS:O	1:J:369:LEU:HG	2.06	0.55
1:J:844:ARG:HE	1:J:845:CYS:H	1.54	0.55
1:J:1155:LEU:HD22	1:J:1184:ILE:HG12	1.88	0.55
1:J:3043:PHE:HA	1:J:3071:LEU:HD13	1.87	0.55
1:J:3206:LEU:HB2	1:J:3246:LEU:HD23	1.88	0.55
1:J:3800:LEU:O	1:J:3804:ILE:HG12	2.06	0.55
1:B:499:THR:HG23	1:B:502:HIS:H	1.71	0.55
1:B:1232:ARG:NH2	1:B:1828:ASP:O	2.36	0.55
1:E:3219:TYR:OH	1:E:3235:SER:N	2.39	0.55
1:G:1232:ARG:NH2	1:G:1828:ASP:O	2.37	0.55
1:G:2131:LEU:HD11	1:G:3662:ILE:HG12	1.88	0.55
1:G:3847:PHE:HB2	1:G:3874:VAL:HG12	1.87	0.55
1:J:4749:GLU:HG3	1:J:4753:HIS:NE2	2.21	0.55
1:B:3967:GLU:CA	1:B:3970:GLN:HG2	2.34	0.55
1:B:4673:ARG:NH2	1:B:4702:ASP:OD1	2.39	0.55
1:E:883:ALA:HA	1:E:886:ARG:HE	1.70	0.55
1:G:16:THR:HB	1:G:98:HIS:HA	1.86	0.55
1:G:2131:LEU:HB3	1:G:3667:HIS:CE1	2.42	0.55
1:G:3884:LEU:O	1:G:3888:LEU:HG	2.06	0.55
1:G:4735:GLU:O	1:G:4739:GLU:HG2	2.07	0.55
1:J:355:LEU:HB3	1:J:378:LEU:HB3	1.88	0.55
1:B:2131:LEU:HB3	1:B:3667:HIS:CE1	2.42	0.55
1:B:2464:ASP:OD1	1:B:2465:ASP:N	2.40	0.55
1:E:3847:PHE:HB2	1:E:3874:VAL:HG12	1.87	0.55
1:G:3219:TYR:OH	1:G:3235:SER:N	2.39	0.55
1:B:248:GLU:HB2	1:B:373:LYS:HA	1.88	0.55
1:B:355:LEU:HB3	1:B:378:LEU:HB3	1.88	0.55
1:B:2039:LEU:HB3	1:B:2044:ILE:HB	1.89	0.55
1:B:3206:LEU:HB2	1:B:3246:LEU:HD23	1.88	0.55
1:E:2364:PHE:HD1	1:E:2429:LEU:HD21	1.71	0.55
1:E:2626:LEU:HG	1:E:2640:PRO:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1240:LYS:HE3	1:G:1242:LEU:HB3	1.87	0.55
1:G:1504:GLY:O	1:G:1532:ASN:ND2	2.40	0.55
1:G:3768:SER:HA	1:G:3771:HIS:CD2	2.41	0.55
1:J:3018:LEU:HB2	1:J:3074:SER:HA	1.87	0.55
1:J:3847:PHE:HB2	1:J:3874:VAL:HG12	1.88	0.55
1:J:4735:GLU:O	1:J:4739:GLU:HG2	2.07	0.55
1:B:1721:GLU:OE2	1:B:1725:ARG:NH2	2.36	0.55
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.06	0.55
1:B:5009:TYR:HA	1:B:5012:LYS:HE3	1.87	0.55
1:E:499:THR:HG23	1:E:502:HIS:H	1.71	0.55
1:E:2978:GLU:HB2	1:E:3053:ARG:HH11	1.72	0.55
1:E:4749:GLU:HG3	1:E:4753:HIS:NE2	2.21	0.55
1:G:897:ARG:HD3	1:G:905:PRO:HD3	1.89	0.55
1:G:2039:LEU:HB3	1:G:2044:ILE:HB	1.89	0.55
1:J:2527:LEU:HD11	1:J:2582:MET:HB3	1.88	0.55
1:J:5012:LYS:O	1:J:5016:GLU:HG2	2.07	0.55
1:B:157:ARG:NH2	1:B:162:LYS:O	2.37	0.55
1:B:232:THR:HG21	1:B:252:VAL:HG11	1.88	0.55
1:B:2978:GLU:HB2	1:B:3053:ARG:HH11	1.72	0.55
1:B:4735:GLU:O	1:B:4739:GLU:HG2	2.07	0.55
1:E:2747:ILE:HD12	1:E:2817:ILE:HD13	1.89	0.55
1:E:4999:ASP:HB2	1:E:5002:GLU:HG2	1.89	0.55
1:G:4749:GLU:HG3	1:G:4753:HIS:NE2	2.21	0.55
1:J:897:ARG:HD3	1:J:905:PRO:HD3	1.89	0.55
1:J:1041:GLN:O	1:J:1045:THR:HG23	2.07	0.55
1:J:4584:ASP:HA	1:J:4627:MET:HA	1.89	0.55
1:J:4673:ARG:NH2	1:J:4702:ASP:OD1	2.39	0.55
1:B:489:ASN:OD1	1:B:493:ARG:NH1	2.40	0.55
1:B:4999:ASP:HB2	1:B:5002:GLU:HG2	1.89	0.55
1:E:5009:TYR:HA	1:E:5012:LYS:HE3	1.87	0.55
1:G:4584:ASP:HA	1:G:4627:MET:HA	1.89	0.55
1:J:2238:TYR:O	1:J:2242:ILE:HG12	2.06	0.55
2:A:29:MET:HA	2:A:35:LYS:HA	1.89	0.55
2:H:29:MET:HA	2:H:35:LYS:HA	1.89	0.55
1:B:4584:ASP:HA	1:B:4627:MET:HA	1.89	0.55
1:E:1041:GLN:O	1:E:1045:THR:HG23	2.07	0.55
1:E:1240:LYS:HE3	1:E:1242:LEU:HB3	1.87	0.55
1:J:247:TYR:HE2	1:J:359:TYR:HA	1.72	0.55
1:J:1102:VAL:HG11	1:J:1149:VAL:HG11	1.87	0.55
1:J:2364:PHE:HD1	1:J:2429:LEU:HD21	1.71	0.55
1:B:897:ARG:HD3	1:B:905:PRO:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:355:LEU:HB3	1:E:378:LEU:HB3	1.88	0.54
1:E:1155:LEU:HD22	1:E:1184:ILE:HG12	1.88	0.54
1:E:1504:GLY:O	1:E:1532:ASN:ND2	2.40	0.54
1:E:4584:ASP:HA	1:E:4627:MET:HA	1.89	0.54
1:G:952:LYS:HA	1:G:971:ASP:H	1.72	0.54
1:G:2978:GLU:HB2	1:G:3053:ARG:HH11	1.72	0.54
1:J:952:LYS:HA	1:J:971:ASP:H	1.72	0.54
1:J:1504:GLY:O	1:J:1532:ASN:ND2	2.40	0.54
1:J:2039:LEU:HB3	1:J:2044:ILE:HB	1.89	0.54
1:J:2464:ASP:OD1	1:J:2465:ASP:N	2.40	0.54
1:B:730:VAL:HA	1:B:1476:MET:CE	2.38	0.54
1:B:4749:GLU:HG3	1:B:4753:HIS:NE2	2.21	0.54
1:B:5012:LYS:O	1:B:5016:GLU:HG2	2.07	0.54
1:E:37:LEU:HA	1:E:49:LEU:HD23	1.90	0.54
1:E:103:TYR:OH	1:E:167:ASP:OD2	2.26	0.54
1:E:924:MET:HE2	3:F:107:TRP:HB2	1.90	0.54
1:E:4077:PHE:O	1:E:4081:VAL:HG23	2.08	0.54
1:E:5012:LYS:O	1:E:5016:GLU:HG2	2.07	0.54
1:G:1041:GLN:O	1:G:1045:THR:HG23	2.07	0.54
1:B:883:ALA:HA	1:B:886:ARG:HE	1.70	0.54
1:B:1041:GLN:O	1:B:1045:THR:HG23	2.07	0.54
1:E:489:ASN:OD1	1:E:493:ARG:NH1	2.40	0.54
1:E:797:HIS:CE1	1:E:1626:TRP:CD1	2.95	0.54
1:E:3206:LEU:HB2	1:E:3246:LEU:HD23	1.88	0.54
1:G:355:LEU:HB3	1:G:378:LEU:HB3	1.88	0.54
1:G:489:ASN:OD1	1:G:493:ARG:NH1	2.40	0.54
1:G:2883:HIS:HE1	1:G:2907:PRO:HA	1.73	0.54
1:G:5012:LYS:O	1:G:5016:GLU:HG2	2.07	0.54
1:J:797:HIS:CE1	1:J:1626:TRP:CD1	2.95	0.54
1:J:2747:ILE:HD12	1:J:2817:ILE:HD13	1.89	0.54
1:J:2978:GLU:HB2	1:J:3053:ARG:HH11	1.72	0.54
1:B:37:LEU:HA	1:B:49:LEU:HD23	1.90	0.54
1:B:103:TYR:OH	1:B:167:ASP:OD2	2.26	0.54
1:B:2883:HIS:HE1	1:B:2907:PRO:HA	1.73	0.54
1:E:2131:LEU:HB3	1:E:3667:HIS:CE1	2.42	0.54
1:E:4735:GLU:O	1:E:4739:GLU:HG2	2.07	0.54
1:G:3206:LEU:HB2	1:G:3246:LEU:HD23	1.88	0.54
1:G:4077:PHE:O	1:G:4081:VAL:HG23	2.08	0.54
1:G:103:TYR:OH	1:G:167:ASP:OD2	2.26	0.54
1:G:1155:LEU:HD22	1:G:1184:ILE:HG12	1.88	0.54
1:G:2626:LEU:HG	1:G:2640:PRO:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:37:LEU:HA	1:J:49:LEU:HD23	1.89	0.54
1:J:4131:ARG:HG3	1:J:4132:PHE:CD1	2.43	0.54
1:E:4826:ILE:O	1:E:4830:VAL:HG23	2.08	0.54
1:J:232:THR:HG21	1:J:252:VAL:HG11	1.88	0.54
1:J:2131:LEU:HB3	1:J:3667:HIS:CE1	2.42	0.54
1:B:247:TYR:HE2	1:B:359:TYR:HA	1.72	0.54
1:B:2806:ARG:HG3	1:B:2810:LYS:HZ3	1.73	0.54
1:E:69:LEU:HD21	1:E:101:LEU:HD11	1.90	0.54
1:E:2883:HIS:HE1	1:E:2907:PRO:HA	1.73	0.54
1:E:4085:ARG:NH1	1:E:4121:GLU:OE1	2.41	0.54
1:G:232:THR:HG21	1:G:252:VAL:HG11	1.88	0.54
1:G:4826:ILE:O	1:G:4830:VAL:HG23	2.08	0.54
1:J:248:GLU:HB2	1:J:373:LYS:HA	1.89	0.54
1:J:613:ALA:HB2	1:J:1676:LEU:HD12	1.90	0.54
1:J:3974:THR:O	1:J:3978:GLN:HG2	2.08	0.54
2:I:29:MET:HA	2:I:35:LYS:HA	1.89	0.54
3:F:90:THR:HG23	3:F:124:THR:HA	1.90	0.54
1:B:459:LEU:HB3	1:B:463:GLU:HG3	1.90	0.54
1:E:232:THR:HG21	1:E:252:VAL:HG11	1.89	0.54
1:E:2806:ARG:HG3	1:E:2810:LYS:HZ3	1.73	0.54
1:E:3967:GLU:CA	1:E:3970:GLN:HG2	2.34	0.54
1:G:2992:GLU:O	1:G:2996:LYS:HG2	2.08	0.54
1:J:879:HIS:CE1	1:J:921:ASN:HD22	2.26	0.54
1:J:2883:HIS:HE1	1:J:2907:PRO:HA	1.73	0.54
1:J:2992:GLU:O	1:J:2996:LYS:HG2	2.08	0.54
1:J:4999:ASP:HB2	1:J:5002:GLU:HG2	1.89	0.54
3:C:90:THR:HG23	3:C:124:THR:HA	1.90	0.54
1:B:69:LEU:HD21	1:B:101:LEU:HD11	1.90	0.54
1:B:797:HIS:CE1	1:B:1626:TRP:CD1	2.95	0.54
1:B:4767:TRP:O	1:B:4771:ILE:HG12	2.08	0.54
1:E:897:ARG:HD3	1:E:905:PRO:HD3	1.89	0.54
1:E:3923:LEU:HD21	1:E:3962:PHE:CE1	2.43	0.54
1:G:179:TYR:H	1:G:195:PHE:HA	1.73	0.54
1:G:3399:SER:O	1:G:3403:ARG:HG3	2.08	0.54
1:G:4085:ARG:NH1	1:G:4121:GLU:OE1	2.41	0.54
1:J:69:LEU:HD21	1:J:101:LEU:HD11	1.90	0.54
1:J:103:TYR:OH	1:J:167:ASP:OD2	2.26	0.54
1:J:179:TYR:H	1:J:195:PHE:HA	1.73	0.54
1:B:2747:ILE:HD12	1:B:2817:ILE:HD13	1.89	0.54
1:B:4843:LEU:HD22	1:G:4823:LEU:HD22	1.90	0.54
1:E:179:TYR:H	1:E:195:PHE:HA	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1232:ARG:NH2	1:E:1828:ASP:O	2.36	0.54
1:E:3974:THR:O	1:E:3978:GLN:HG2	2.08	0.54
1:E:4675:LYS:O	1:E:4679:ARG:HG2	2.08	0.54
1:E:4767:TRP:O	1:E:4771:ILE:HG12	2.08	0.54
1:G:365:LYS:O	1:G:369:LEU:HG	2.08	0.54
1:J:4077:PHE:O	1:J:4081:VAL:HG23	2.08	0.54
1:B:248:GLU:HA	1:B:372:LEU:O	2.08	0.53
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.08	0.53
1:E:70:GLU:HG2	1:E:71:GLN:HG3	1.90	0.53
1:E:365:LYS:O	1:E:369:LEU:HG	2.07	0.53
1:E:2827:ARG:NE	1:E:2935:TYR:OH	2.27	0.53
1:E:3940:LYS:O	1:E:4002:LYS:NZ	2.36	0.53
1:G:157:ARG:NH2	1:G:162:LYS:O	2.37	0.53
1:G:613:ALA:HB2	1:G:1676:LEU:HD12	1.90	0.53
1:J:960:MET:HB3	1:J:966:LYS:HB2	1.90	0.53
1:B:1095:VAL:HB	1:B:1199:VAL:HG23	1.90	0.53
1:B:1679:ASN:ND2	1:B:1797:ARG:O	2.37	0.53
1:B:2924:GLN:O	1:B:2928:LYS:HG2	2.08	0.53
1:B:3399:SER:O	1:B:3403:ARG:HG3	2.08	0.53
1:E:2039:LEU:HB3	1:E:2044:ILE:HB	1.89	0.53
1:E:2924:GLN:O	1:E:2928:LYS:HG2	2.09	0.53
1:G:3974:THR:O	1:G:3978:GLN:HG2	2.08	0.53
1:J:489:ASN:OD1	1:J:493:ARG:NH1	2.40	0.53
1:J:917:GLU:CD	3:K:101:PRO:HB2	2.29	0.53
1:J:2626:LEU:HG	1:J:2640:PRO:HB3	1.88	0.53
2:D:29:MET:HA	2:D:35:LYS:HA	1.89	0.53
1:B:960:MET:HB3	1:B:966:LYS:HB2	1.90	0.53
1:B:4131:ARG:HG3	1:B:4132:PHE:CD1	2.43	0.53
1:E:459:LEU:HB3	1:E:463:GLU:HG3	1.90	0.53
1:E:2464:ASP:OD1	1:E:2465:ASP:N	2.40	0.53
1:E:3085:PRO:HG2	1:E:3088:VAL:HB	1.91	0.53
1:G:37:LEU:HA	1:G:49:LEU:HD23	1.90	0.53
1:G:69:LEU:HD21	1:G:101:LEU:HD11	1.90	0.53
1:J:2505:PHE:O	1:J:2509:VAL:HG22	2.08	0.53
1:J:2806:ARG:HG3	1:J:2810:LYS:HZ3	1.73	0.53
1:J:2924:GLN:O	1:J:2928:LYS:HG2	2.08	0.53
1:J:3399:SER:O	1:J:3403:ARG:HG3	2.08	0.53
1:J:4767:TRP:O	1:J:4771:ILE:HG12	2.08	0.53
1:J:4942:GLU:O	1:J:4946:GLN:HG3	2.09	0.53
3:M:90:THR:HG23	3:M:124:THR:HA	1.90	0.53
1:B:1504:GLY:O	1:B:1532:ASN:ND2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2248:ARG:HG3	1:B:2286:LEU:HD21	1.90	0.53
1:B:2505:PHE:O	1:B:2509:VAL:HG22	2.08	0.53
1:B:4823:LEU:HD22	1:E:4843:LEU:HD22	1.91	0.53
1:E:151:HIS:HB2	1:E:170:ILE:HB	1.90	0.53
1:E:4131:ARG:HG3	1:E:4132:PHE:CD1	2.43	0.53
1:G:1002:ALA:HB1	3:M:1:GLN:HE21	1.74	0.53
1:G:1095:VAL:HB	1:G:1199:VAL:HG23	1.90	0.53
1:G:2464:ASP:OD1	1:G:2465:ASP:N	2.40	0.53
1:G:2747:ILE:HD12	1:G:2817:ILE:HD13	1.89	0.53
1:G:3887:PHE:O	1:G:3891:LEU:HG	2.07	0.53
1:G:4131:ARG:HG3	1:G:4132:PHE:CD1	2.43	0.53
1:J:1804:LEU:HD12	1:J:1853:ILE:HG13	1.91	0.53
1:J:3967:GLU:CA	1:J:3970:GLN:HG2	2.34	0.53
3:K:90:THR:HG23	3:K:124:THR:HA	1.90	0.53
1:B:952:LYS:HA	1:B:971:ASP:H	1.72	0.53
1:G:247:TYR:CE2	1:G:359:TYR:HA	2.44	0.53
1:G:2806:ARG:HG3	1:G:2810:LYS:HZ3	1.74	0.53
1:J:4085:ARG:NH1	1:J:4121:GLU:OE1	2.41	0.53
1:B:3974:THR:O	1:B:3978:GLN:HG2	2.08	0.53
1:B:4675:LYS:O	1:B:4679:ARG:HG2	2.08	0.53
1:E:613:ALA:HB2	1:E:1676:LEU:HD12	1.90	0.53
1:E:960:MET:HB3	1:E:966:LYS:HB2	1.90	0.53
1:E:2992:GLU:O	1:E:2996:LYS:HG2	2.08	0.53
1:E:4243:PHE:O	1:E:4247:ILE:HG13	2.09	0.53
1:G:2505:PHE:O	1:G:2509:VAL:HG22	2.08	0.53
1:G:3037:GLU:HB2	1:G:3085:PRO:HG3	1.91	0.53
1:J:1079:LYS:HA	1:J:1189:LEU:HD11	1.91	0.53
1:B:909:ASN:HA	1:B:965:TYR:HA	1.91	0.53
1:B:1433:TYR:HE2	1:B:1577:ALA:HB3	1.74	0.53
1:B:2110:TYR:HB2	1:B:3695:PRO:HD2	1.91	0.53
1:B:4243:PHE:CE2	1:B:4247:ILE:HD11	2.44	0.53
1:B:4826:ILE:O	1:B:4830:VAL:HG23	2.08	0.53
1:E:1530:THR:HA	1:E:1535:GLU:HA	1.91	0.53
1:G:80:GLU:OE1	1:J:3935:TRP:NE1	2.33	0.53
1:G:1297:PHE:CD2	1:G:1522:LEU:HA	2.44	0.53
1:G:4243:PHE:CE2	1:G:4247:ILE:HD11	2.44	0.53
1:G:4943:LEU:O	1:G:4947:GLN:HG2	2.09	0.53
1:J:248:GLU:HA	1:J:372:LEU:O	2.08	0.53
1:J:1297:PHE:CD2	1:J:1522:LEU:HA	2.44	0.53
1:J:1530:THR:HA	1:J:1535:GLU:HA	1.91	0.53
1:J:4675:LYS:O	1:J:4679:ARG:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2992:GLU:O	1:B:2996:LYS:HG2	2.08	0.53
1:B:3037:GLU:HB2	1:B:3085:PRO:HG3	1.91	0.53
1:B:3923:LEU:HD21	1:B:3962:PHE:CE1	2.44	0.53
1:E:1437:VAL:HB	1:E:1516:ILE:HB	1.91	0.53
1:G:4675:LYS:O	1:G:4679:ARG:HG2	2.08	0.53
1:B:613:ALA:HB2	1:B:1676:LEU:HD12	1.90	0.53
1:B:1079:LYS:HA	1:B:1189:LEU:HD11	1.91	0.53
1:B:3085:PRO:HG2	1:B:3088:VAL:HB	1.91	0.53
1:B:4085:ARG:NH1	1:B:4121:GLU:OE1	2.41	0.53
1:E:1297:PHE:CD2	1:E:1522:LEU:HA	2.44	0.53
1:E:3900:GLN:HB3	1:E:3976:ASN:ND2	2.24	0.53
1:E:4942:GLU:O	1:E:4946:GLN:HG3	2.09	0.53
1:G:960:MET:HB3	1:G:966:LYS:HB2	1.90	0.53
1:G:1079:LYS:HA	1:G:1189:LEU:HD11	1.91	0.53
1:G:4104:THR:O	1:G:4108:ILE:HG12	2.09	0.53
1:J:1437:VAL:HB	1:J:1516:ILE:HB	1.91	0.53
1:J:3923:LEU:HD21	1:J:3962:PHE:CE1	2.44	0.53
1:J:4240:ASP:OD1	1:J:4675:LYS:NZ	2.40	0.53
1:B:179:TYR:H	1:B:195:PHE:HA	1.73	0.53
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.09	0.53
1:E:1079:LYS:HA	1:E:1189:LEU:HD11	1.91	0.53
1:E:2248:ARG:HG3	1:E:2286:LEU:HD21	1.90	0.53
1:E:4240:ASP:OD1	1:E:4675:LYS:NZ	2.40	0.53
1:G:909:ASN:HA	1:G:965:TYR:HA	1.91	0.53
1:G:1804:LEU:HD12	1:G:1853:ILE:HG13	1.91	0.53
1:J:4243:PHE:CE2	1:J:4247:ILE:HD11	2.44	0.53
1:J:4826:ILE:O	1:J:4830:VAL:HG23	2.08	0.53
1:B:80:GLU:OE1	1:G:3935:TRP:NE1	2.33	0.52
1:B:879:HIS:CE1	1:B:921:ASN:HD22	2.27	0.52
1:B:3547:GLU:O	1:B:3551:GLU:HG2	2.10	0.52
1:B:3980:LEU:O	1:B:3986:TRP:NE1	2.43	0.52
1:B:4240:ASP:OD1	1:B:4675:LYS:NZ	2.40	0.52
1:E:870:ILE:HD12	1:E:1051:TYR:CZ	2.45	0.52
1:E:2505:PHE:O	1:E:2509:VAL:HG22	2.08	0.52
1:G:459:LEU:HB3	1:G:463:GLU:HG3	1.90	0.52
1:G:1433:TYR:HB3	1:G:1575:LEU:HD23	1.91	0.52
1:G:1679:ASN:ND2	1:G:1797:ARG:O	2.37	0.52
1:G:2110:TYR:HB2	1:G:3695:PRO:HD2	1.91	0.52
1:G:2861:ASP:HB2	1:G:2925:GLU:HG2	1.91	0.52
1:G:2924:GLN:O	1:G:2928:LYS:HG2	2.08	0.52
1:G:3085:PRO:HG2	1:G:3088:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3547:GLU:O	1:G:3551:GLU:HG2	2.10	0.52
1:G:4843:LEU:HD22	1:J:4823:LEU:HD22	1.90	0.52
1:J:459:LEU:HB3	1:J:463:GLU:HG3	1.90	0.52
1:J:2861:ASP:HB2	1:J:2925:GLU:HG2	1.91	0.52
1:B:56:GLN:O	1:B:308:HIS:HA	2.10	0.52
1:B:151:HIS:HB2	1:B:170:ILE:HB	1.90	0.52
1:B:3900:GLN:HB3	1:B:3976:ASN:ND2	2.24	0.52
1:E:952:LYS:HA	1:E:971:ASP:H	1.72	0.52
1:E:1573:MET:SD	1:E:1574:PRO:HD2	2.50	0.52
1:E:3399:SER:O	1:E:3403:ARG:HG3	2.08	0.52
1:G:917:GLU:CD	3:M:101:PRO:HB2	2.30	0.52
1:G:4767:TRP:O	1:G:4771:ILE:HG12	2.08	0.52
1:J:730:VAL:HA	1:J:1476:MET:CE	2.37	0.52
1:J:993:HIS:NE2	1:J:1022:VAL:O	2.41	0.52
1:J:3900:GLN:HB3	1:J:3976:ASN:ND2	2.24	0.52
1:J:4243:PHE:O	1:J:4247:ILE:HG13	2.09	0.52
1:B:3078:ARG:HG3	1:B:3152:PHE:CD1	2.44	0.52
1:E:102:LEU:HD12	1:E:160:GLY:HA2	1.92	0.52
1:E:1433:TYR:HE2	1:E:1577:ALA:HB3	1.74	0.52
1:E:1808:ARG:HD3	1:E:1853:ILE:HG22	1.92	0.52
1:E:4943:LEU:O	1:E:4947:GLN:HG2	2.09	0.52
1:J:102:LEU:HD12	1:J:160:GLY:HA2	1.92	0.52
1:J:870:ILE:HD12	1:J:1051:TYR:CZ	2.45	0.52
1:J:2893:GLU:O	1:J:2897:LYS:HG2	2.10	0.52
1:B:601:ASP:HA	1:B:1668:ARG:HH22	1.75	0.52
1:B:1297:PHE:CD2	1:B:1522:LEU:HA	2.44	0.52
1:B:4243:PHE:O	1:B:4247:ILE:HG13	2.09	0.52
1:E:157:ARG:NH2	1:E:162:LYS:O	2.37	0.52
1:E:1002:ALA:HB1	3:F:1:GLN:HE21	1.74	0.52
1:E:1095:VAL:HB	1:E:1199:VAL:HG23	1.90	0.52
1:E:3078:ARG:HG3	1:E:3152:PHE:CD1	2.44	0.52
1:E:3440:GLU:HA	1:E:3443:ILE:HG12	1.91	0.52
1:G:56:GLN:O	1:G:308:HIS:HA	2.10	0.52
1:G:2248:ARG:HG3	1:G:2286:LEU:HD21	1.90	0.52
1:J:56:GLN:O	1:J:308:HIS:HA	2.10	0.52
1:J:4104:THR:O	1:J:4108:ILE:HG12	2.09	0.52
1:B:70:GLU:HG2	1:B:71:GLN:HG3	1.90	0.52
1:E:1432:THR:HG23	1:E:1572:ILE:HG23	1.92	0.52
1:E:2380:ILE:HG21	1:E:2469:ILE:HD11	1.92	0.52
1:E:3037:GLU:HB2	1:E:3085:PRO:HG3	1.91	0.52
1:E:4092:ASP:HA	1:E:4095:LYS:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:797:HIS:CE1	1:G:1626:TRP:CD1	2.95	0.52
1:G:1433:TYR:HE2	1:G:1577:ALA:HB3	1.74	0.52
1:G:4243:PHE:O	1:G:4247:ILE:HG13	2.09	0.52
1:G:4761:PRO:HB2	1:G:4766:THR:HG21	1.91	0.52
1:J:70:GLU:HG2	1:J:71:GLN:HG3	1.90	0.52
1:J:4092:ASP:HA	1:J:4095:LYS:HG2	1.92	0.52
1:B:4942:GLU:O	1:B:4946:GLN:HG3	2.09	0.52
1:E:56:GLN:O	1:E:308:HIS:HA	2.10	0.52
1:E:1804:LEU:HD12	1:E:1853:ILE:HG13	1.91	0.52
1:E:3891:LEU:O	1:E:3896:ASN:ND2	2.36	0.52
1:E:4823:LEU:HD22	1:J:4843:LEU:HD22	1.90	0.52
1:G:730:VAL:HA	1:G:1476:MET:CE	2.37	0.52
1:G:3051:ARG:HA	1:G:3131:TYR:CZ	2.45	0.52
1:J:1433:TYR:HB3	1:J:1575:LEU:HD23	1.91	0.52
1:J:2110:TYR:HB2	1:J:3695:PRO:HD2	1.91	0.52
1:J:3037:GLU:HB2	1:J:3085:PRO:HG3	1.91	0.52
1:J:3980:LEU:O	1:J:3986:TRP:NE1	2.43	0.52
3:C:105:ASN:HD21	3:C:107:TRP:HB3	1.75	0.52
1:B:102:LEU:HD12	1:B:160:GLY:HA2	1.92	0.52
1:B:2380:ILE:HG21	1:B:2469:ILE:HD11	1.92	0.52
1:B:3440:GLU:HA	1:B:3443:ILE:HG12	1.91	0.52
1:B:3940:LYS:O	1:B:4002:LYS:NZ	2.36	0.52
1:E:601:ASP:HA	1:E:1668:ARG:HH22	1.75	0.52
1:E:730:VAL:HA	1:E:1476:MET:CE	2.37	0.52
1:E:3384:LYS:NZ	1:E:3386:GLU:OE1	2.43	0.52
1:G:879:HIS:CE1	1:G:921:ASN:HD22	2.28	0.52
1:J:151:HIS:HB2	1:J:170:ILE:HB	1.90	0.52
1:J:1679:ASN:ND2	1:J:1797:ARG:O	2.37	0.52
1:J:1860:LYS:O	1:J:1864:LYS:HG2	2.10	0.52
2:I:13:ARG:HH11	2:I:13:ARG:C	2.12	0.52
1:B:1808:ARG:HD3	1:B:1853:ILE:HG22	1.92	0.52
1:E:28:VAL:HB	1:E:33:LEU:HD23	1.92	0.52
1:E:2893:GLU:O	1:E:2897:LYS:HG2	2.10	0.52
1:E:3674:ILE:HG13	1:E:3732:SER:CB	2.40	0.52
1:G:1573:MET:SD	1:G:1574:PRO:HD2	2.49	0.52
1:J:1432:THR:HG23	1:J:1572:ILE:HG23	1.92	0.52
1:J:2095:GLN:HA	1:J:2127:GLN:OE1	2.10	0.52
1:J:3132:THR:HA	1:J:3136:LEU:HB2	1.92	0.52
1:J:3194:LEU:HA	1:J:3197:LEU:HG	1.92	0.52
1:J:3891:LEU:O	1:J:3896:ASN:ND2	2.36	0.52
1:B:28:VAL:HB	1:B:33:LEU:HD23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1433:TYR:HB3	1:B:1575:LEU:HD23	1.91	0.52
1:B:1437:VAL:HB	1:B:1516:ILE:HB	1.91	0.52
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.50	0.52
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.10	0.52
1:B:3674:ILE:HG13	1:B:3732:SER:CB	2.40	0.52
1:E:1758:ARG:HH12	1:E:2037:ASP:HA	1.75	0.52
1:E:1860:LYS:O	1:E:1864:LYS:HG2	2.10	0.52
1:E:2110:TYR:HB2	1:E:3695:PRO:HD2	1.91	0.52
1:E:3036:LYS:HD2	1:E:3079:THR:HG21	1.92	0.52
1:E:4104:THR:O	1:E:4108:ILE:HG12	2.09	0.52
1:E:4761:PRO:HB2	1:E:4766:THR:HG21	1.91	0.52
1:G:601:ASP:HA	1:G:1668:ARG:HH22	1.75	0.52
1:G:1437:VAL:HB	1:G:1516:ILE:HB	1.91	0.52
1:G:4942:GLU:O	1:G:4946:GLN:HG3	2.09	0.52
1:J:601:ASP:HA	1:J:1668:ARG:HH22	1.75	0.52
1:J:659:TYR:HB2	1:J:1017:ARG:HH12	1.75	0.52
1:J:858:THR:HG21	1:J:931:THR:HG22	1.92	0.52
1:J:3085:PRO:HG2	1:J:3088:VAL:HB	1.91	0.52
1:J:3674:ILE:HG13	1:J:3732:SER:CB	2.40	0.52
1:J:4092:ASP:OD1	1:J:4093:PHE:N	2.43	0.52
1:B:858:THR:HG21	1:B:931:THR:HG22	1.92	0.52
1:B:870:ILE:HD12	1:B:1051:TYR:CZ	2.45	0.52
1:B:1758:ARG:HH12	1:B:2037:ASP:HA	1.75	0.52
1:B:2861:ASP:HB2	1:B:2925:GLU:HG2	1.91	0.52
1:B:4761:PRO:HB2	1:B:4766:THR:HG21	1.91	0.52
1:E:917:GLU:CD	3:F:101:PRO:HB2	2.30	0.52
1:E:1694:LEU:HB3	1:E:1715:LEU:HD12	1.92	0.52
1:E:3051:ARG:HA	1:E:3131:TYR:CZ	2.45	0.52
1:E:4092:ASP:OD1	1:E:4093:PHE:N	2.43	0.52
1:E:4243:PHE:CE2	1:E:4247:ILE:HD11	2.44	0.52
1:E:5014:TYR:O	1:E:5017:ARG:NH2	2.43	0.52
1:G:1758:ARG:HH12	1:G:2037:ASP:HA	1.75	0.52
1:G:2893:GLU:O	1:G:2897:LYS:HG2	2.10	0.52
1:J:76:ARG:O	1:J:79:GLN:HG3	2.10	0.52
1:J:1573:MET:SD	1:J:1574:PRO:HD2	2.50	0.52
1:J:1758:ARG:HH12	1:J:2037:ASP:HA	1.75	0.52
1:J:4943:LEU:O	1:J:4947:GLN:HG2	2.09	0.52
1:J:5014:TYR:HD1	1:J:5019:TRP:HE1	1.58	0.52
1:B:72:SER:O	1:B:99:ARG:NH1	2.43	0.51
1:B:904:HIS:CD2	1:B:907:LEU:H	2.27	0.51
1:B:917:GLU:CD	3:C:101:PRO:HB2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1464:PHE:HA	1:B:1468:LYS:HD2	1.92	0.51
1:B:4104:THR:O	1:B:4108:ILE:HG12	2.09	0.51
1:E:248:GLU:HA	1:E:372:LEU:O	2.11	0.51
1:E:2806:ARG:HH11	1:E:2810:LYS:HG3	1.76	0.51
1:E:3683:GLN:HA	1:E:3686:GLU:HG2	1.92	0.51
1:G:2380:ILE:HG21	1:G:2469:ILE:HD11	1.92	0.51
1:G:3036:LYS:HD2	1:G:3079:THR:HG21	1.92	0.51
1:G:3163:VAL:HA	1:G:3166:TYR:HD2	1.75	0.51
1:J:1095:VAL:HB	1:J:1199:VAL:HG23	1.90	0.51
1:J:2248:ARG:HG3	1:J:2286:LEU:HD21	1.90	0.51
1:J:3051:ARG:HA	1:J:3131:TYR:CZ	2.45	0.51
1:B:76:ARG:O	1:B:79:GLN:HG3	2.11	0.51
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.10	0.51
1:E:72:SER:O	1:E:99:ARG:NH1	2.43	0.51
1:G:714:TYR:HE1	1:G:1472:VAL:HG11	1.75	0.51
1:G:3674:ILE:HG13	1:G:3732:SER:CB	2.40	0.51
1:G:4092:ASP:HA	1:G:4095:LYS:HG2	1.92	0.51
1:J:526:LEU:HD11	1:J:540:PHE:HZ	1.75	0.51
1:J:663:TYR:HD1	1:J:747:CYS:HB3	1.75	0.51
1:J:747:CYS:HB2	1:J:808:TYR:CE2	2.46	0.51
1:J:1464:PHE:HA	1:J:1468:LYS:HD2	1.92	0.51
1:J:1808:ARG:HD3	1:J:1853:ILE:HG22	1.92	0.51
1:J:3078:ARG:HG3	1:J:3152:PHE:CD1	2.44	0.51
1:B:1087:ARG:HB3	1:B:1223:PHE:CD1	2.46	0.51
1:B:1804:LEU:HD12	1:B:1853:ILE:HG13	1.91	0.51
1:B:4092:ASP:HA	1:B:4095:LYS:HG2	1.92	0.51
1:E:2861:ASP:HB2	1:E:2925:GLU:HG2	1.91	0.51
1:G:72:SER:O	1:G:99:ARG:NH1	2.43	0.51
1:G:102:LEU:HD12	1:G:160:GLY:HA2	1.92	0.51
1:G:2470:ILE:HB	1:G:2502:MET:HE3	1.91	0.51
1:G:2806:ARG:HH11	1:G:2810:LYS:HG3	1.76	0.51
1:G:2963:LEU:O	1:G:2967:MET:HG2	2.11	0.51
1:G:4092:ASP:OD1	1:G:4093:PHE:N	2.43	0.51
1:J:904:HIS:CD2	1:J:907:LEU:H	2.27	0.51
1:J:1433:TYR:HE2	1:J:1577:ALA:HB3	1.74	0.51
1:J:3440:GLU:HA	1:J:3443:ILE:HG12	1.91	0.51
1:J:4655:PHE:O	1:J:4659:ILE:HG12	2.11	0.51
1:J:4761:PRO:HB2	1:J:4766:THR:HG21	1.91	0.51
1:J:4795:TYR:HD1	1:J:4796:MET:HE2	1.75	0.51
1:J:5014:TYR:O	1:J:5017:ARG:NH2	2.42	0.51
3:M:68:THR:O	3:M:80:LEU:HD12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:993:HIS:NE2	1:B:1022:VAL:O	2.41	0.51
1:E:1492:CYS:SG	1:E:1493:TYR:N	2.84	0.51
1:E:3547:GLU:O	1:E:3551:GLU:HG2	2.10	0.51
1:E:4822:THR:O	1:E:4825:THR:OG1	2.23	0.51
1:G:70:GLU:HG2	1:G:71:GLN:HG3	1.90	0.51
1:G:663:TYR:HD1	1:G:747:CYS:HB3	1.75	0.51
1:G:920:TYR:HE1	3:M:99:ARG:HE	1.58	0.51
1:G:1530:THR:HA	1:G:1535:GLU:HA	1.91	0.51
1:G:3440:GLU:HA	1:G:3443:ILE:HG12	1.91	0.51
1:G:3887:PHE:CE2	1:G:3891:LEU:HD11	2.45	0.51
1:G:3967:GLU:CA	1:G:3970:GLN:HG2	2.36	0.51
1:J:2380:ILE:HG21	1:J:2469:ILE:HD11	1.92	0.51
1:J:3384:LYS:NZ	1:J:3386:GLU:OE1	2.43	0.51
1:J:4941:GLY:HA2	1:J:4944:ARG:HE	1.76	0.51
3:F:68:THR:O	3:F:80:LEU:HD12	2.10	0.51
1:B:1530:THR:HA	1:B:1535:GLU:HA	1.91	0.51
1:B:3051:ARG:HA	1:B:3131:TYR:CZ	2.45	0.51
1:B:3194:LEU:HA	1:B:3197:LEU:HG	1.92	0.51
1:B:4092:ASP:OD1	1:B:4093:PHE:N	2.43	0.51
1:B:4941:GLY:HA2	1:B:4944:ARG:HE	1.76	0.51
1:E:747:CYS:HB2	1:E:808:TYR:CE2	2.46	0.51
1:E:858:THR:HG21	1:E:931:THR:HG22	1.92	0.51
1:E:996:TRP:O	1:E:1000:ARG:HG2	2.11	0.51
1:E:1087:ARG:HB3	1:E:1223:PHE:CD1	2.46	0.51
1:E:4063:ASP:HB2	1:E:4067:LYS:HE3	1.93	0.51
1:G:151:HIS:HB2	1:G:170:ILE:HB	1.90	0.51
1:G:248:GLU:HB2	1:G:373:LYS:HA	1.91	0.51
1:G:747:CYS:HB2	1:G:808:TYR:CE2	2.46	0.51
1:G:1432:THR:HG23	1:G:1572:ILE:HG23	1.91	0.51
1:G:1694:LEU:HB3	1:G:1715:LEU:HD12	1.92	0.51
1:G:3078:ARG:HG3	1:G:3152:PHE:CD1	2.44	0.51
1:G:4655:PHE:O	1:G:4659:ILE:HG12	2.11	0.51
1:J:72:SER:O	1:J:99:ARG:NH1	2.43	0.51
1:J:790:ARG:HD2	1:J:1624:LEU:HB3	1.92	0.51
1:J:3547:GLU:O	1:J:3551:GLU:HG2	2.10	0.51
1:J:4822:THR:O	1:J:4825:THR:OG1	2.23	0.51
2:D:13:ARG:HH11	2:D:13:ARG:C	2.12	0.51
1:B:526:LEU:HD11	1:B:540:PHE:HZ	1.75	0.51
1:B:747:CYS:HB2	1:B:808:TYR:CE2	2.46	0.51
1:B:2095:GLN:HA	1:B:2127:GLN:OE1	2.10	0.51
1:B:4655:PHE:O	1:B:4659:ILE:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:879:HIS:CE1	1:E:921:ASN:HD22	2.28	0.51
1:E:3132:THR:HA	1:E:3136:LEU:HB2	1.92	0.51
1:E:3163:VAL:HA	1:E:3166:TYR:HD2	1.75	0.51
1:E:4795:TYR:HD1	1:E:4796:MET:HE2	1.75	0.51
1:G:28:VAL:HB	1:G:33:LEU:HD23	1.92	0.51
1:G:526:LEU:HD11	1:G:540:PHE:HZ	1.75	0.51
1:G:659:TYR:HB2	1:G:1017:ARG:HH12	1.75	0.51
1:G:870:ILE:HD12	1:G:1051:TYR:CZ	2.45	0.51
1:G:904:HIS:CD2	1:G:907:LEU:H	2.27	0.51
1:G:3194:LEU:HA	1:G:3197:LEU:HG	1.92	0.51
1:G:4240:ASP:OD1	1:G:4675:LYS:NZ	2.40	0.51
1:J:28:VAL:HB	1:J:33:LEU:HD23	1.92	0.51
1:J:996:TRP:O	1:J:1000:ARG:HG2	2.11	0.51
1:J:1492:CYS:SG	1:J:1493:TYR:N	2.84	0.51
1:J:1694:LEU:HB3	1:J:1715:LEU:HD12	1.92	0.51
1:J:3163:VAL:HA	1:J:3166:TYR:HD2	1.75	0.51
3:K:68:THR:O	3:K:80:LEU:HD12	2.10	0.51
1:B:1816:GLY:O	1:B:1820:ARG:HG2	2.11	0.51
1:B:2893:GLU:O	1:B:2897:LYS:HG2	2.10	0.51
1:E:2381:GLU:O	1:E:2385:ARG:HG2	2.11	0.51
1:E:5014:TYR:HD1	1:E:5019:TRP:HE1	1.57	0.51
1:G:574:VAL:O	1:G:578:ILE:HG12	2.11	0.51
1:G:996:TRP:O	1:G:1000:ARG:HG2	2.11	0.51
1:J:714:TYR:HE1	1:J:1472:VAL:HG11	1.75	0.51
1:J:909:ASN:HA	1:J:965:TYR:HA	1.91	0.51
1:J:2381:GLU:O	1:J:2385:ARG:HG2	2.11	0.51
1:J:2559:LEU:O	1:J:2563:THR:HG23	2.10	0.51
1:J:2806:ARG:HH11	1:J:2810:LYS:HG3	1.76	0.51
1:B:659:TYR:HB2	1:B:1017:ARG:HH12	1.75	0.51
1:B:714:TYR:HE1	1:B:1472:VAL:HG11	1.75	0.51
1:B:2963:LEU:O	1:B:2967:MET:HG2	2.11	0.51
1:B:3536:ALA:HB2	1:B:3553:LEU:HD21	1.93	0.51
1:B:3683:GLN:HA	1:B:3686:GLU:HG2	1.92	0.51
1:B:4063:ASP:HB2	1:B:4067:LYS:HE3	1.93	0.51
1:E:574:VAL:O	1:E:578:ILE:HG12	2.11	0.51
1:E:904:HIS:CD2	1:E:907:LEU:H	2.27	0.51
1:G:2559:LEU:O	1:G:2563:THR:HG23	2.10	0.51
1:G:3683:GLN:HA	1:G:3686:GLU:HG2	1.92	0.51
1:G:5014:TYR:HD1	1:G:5019:TRP:HE1	1.57	0.51
1:J:470:SER:HA	1:J:473:ASN:HD21	1.76	0.51
1:B:470:SER:HA	1:B:473:ASN:ND2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:996:TRP:O	1:B:1000:ARG:HG2	2.11	0.51
1:E:1433:TYR:HB3	1:E:1575:LEU:HD23	1.91	0.51
1:E:3980:LEU:O	1:E:3986:TRP:NE1	2.43	0.51
1:E:4941:GLY:HA2	1:E:4944:ARG:HE	1.76	0.51
1:G:1087:ARG:HB3	1:G:1223:PHE:CD1	2.46	0.51
1:G:1860:LYS:O	1:G:1864:LYS:HG2	2.10	0.51
1:G:2522:LEU:HB3	1:G:2527:LEU:HD23	1.93	0.51
1:G:3132:THR:HA	1:G:3136:LEU:HB2	1.92	0.51
1:G:4795:TYR:HD1	1:G:4796:MET:HE2	1.76	0.51
1:J:157:ARG:NH2	1:J:162:LYS:O	2.37	0.51
1:B:907:LEU:O	1:B:963:ASN:ND2	2.44	0.51
1:B:1432:THR:HG23	1:B:1572:ILE:HG23	1.92	0.51
1:E:470:SER:HA	1:E:473:ASN:ND2	2.26	0.51
1:E:663:TYR:HD1	1:E:747:CYS:HB3	1.75	0.51
1:E:2777:TYR:CE2	1:E:2793:PRO:HD3	2.46	0.51
1:E:4651:THR:OG1	1:E:4803:HIS:NE2	2.32	0.51
1:G:76:ARG:O	1:G:79:GLN:HG3	2.11	0.51
1:G:470:SER:HA	1:G:473:ASN:HD21	1.76	0.51
1:G:3093:ARG:O	1:G:3097:GLU:HG2	2.11	0.51
1:G:3769:ARG:O	1:G:3773:ARG:NH1	2.44	0.51
1:J:574:VAL:O	1:J:578:ILE:HG12	2.11	0.51
3:C:68:THR:O	3:C:80:LEU:HD12	2.10	0.51
1:B:266:ARG:HG2	1:B:268:SER:H	1.76	0.50
1:B:1617:THR:HG22	1:B:1628:VAL:HG13	1.93	0.50
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.11	0.50
1:B:2777:TYR:CE2	1:B:2793:PRO:HD3	2.46	0.50
1:E:76:ARG:O	1:E:79:GLN:HG3	2.11	0.50
1:E:526:LEU:HD11	1:E:540:PHE:HZ	1.75	0.50
1:E:659:TYR:HB2	1:E:1017:ARG:HH12	1.75	0.50
1:E:897:ARG:HB3	3:F:58:ASN:OD1	2.11	0.50
1:E:909:ASN:HA	1:E:965:TYR:HA	1.91	0.50
1:E:1042:ALA:O	1:E:1045:THR:OG1	2.22	0.50
1:E:1816:GLY:O	1:E:1820:ARG:HG2	2.11	0.50
1:E:2668:SER:HB3	1:E:2671:GLU:HG3	1.93	0.50
1:E:3093:ARG:O	1:E:3097:GLU:HG2	2.11	0.50
1:E:4581:LYS:HE2	1:E:4632:LEU:HD22	1.94	0.50
1:G:2095:GLN:HA	1:G:2127:GLN:OE1	2.10	0.50
1:G:2381:GLU:O	1:G:2385:ARG:HG2	2.11	0.50
1:G:4941:GLY:HA2	1:G:4944:ARG:HE	1.76	0.50
1:J:1858:ASP:O	1:J:1862:ILE:HG13	2.12	0.50
1:J:2963:LEU:O	1:J:2967:MET:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3093:ARG:O	1:J:3097:GLU:HG2	2.11	0.50
1:J:3457:ASN:O	1:J:3461:GLN:HG2	2.11	0.50
1:B:548:VAL:HG21	1:B:582:HIS:HD2	1.76	0.50
1:B:790:ARG:HD2	1:B:1624:LEU:HB3	1.92	0.50
1:B:2806:ARG:HH11	1:B:2810:LYS:HG3	1.76	0.50
1:B:3384:LYS:NZ	1:B:3386:GLU:OE1	2.43	0.50
1:E:714:TYR:HE1	1:E:1472:VAL:HG11	1.75	0.50
1:E:1617:THR:HG22	1:E:1628:VAL:HG13	1.94	0.50
1:E:2013:LYS:NZ	1:E:3661:TRP:O	2.44	0.50
1:E:2095:GLN:HA	1:E:2127:GLN:OE1	2.10	0.50
1:E:2479:LEU:HA	1:E:2541:PHE:HZ	1.76	0.50
1:E:2559:LEU:O	1:E:2563:THR:HG23	2.10	0.50
1:E:3457:ASN:O	1:E:3461:GLN:HG2	2.11	0.50
1:E:4655:PHE:O	1:E:4659:ILE:HG12	2.11	0.50
1:G:3457:ASN:O	1:G:3461:GLN:HG2	2.11	0.50
1:J:1159:THR:HG22	1:J:1180:ARG:HA	1.94	0.50
1:J:2380:ILE:O	1:J:2384:ILE:HG13	2.11	0.50
1:J:2816:MET:HB3	1:J:2878:LEU:HD13	1.94	0.50
1:J:3683:GLN:HA	1:J:3686:GLU:HG2	1.92	0.50
1:B:590:LEU:HG	1:B:599:VAL:HG11	1.93	0.50
1:B:1159:THR:HG22	1:B:1180:ARG:HA	1.93	0.50
1:B:2668:SER:HB3	1:B:2671:GLU:HG3	1.93	0.50
1:B:2816:MET:HB3	1:B:2878:LEU:HD13	1.94	0.50
1:B:3036:LYS:HD2	1:B:3079:THR:HG21	1.92	0.50
1:B:3163:VAL:HA	1:B:3166:TYR:HD2	1.75	0.50
1:E:3194:LEU:HA	1:E:3197:LEU:HG	1.92	0.50
1:G:792:LEU:HD22	1:G:799:GLU:H	1.77	0.50
1:G:993:HIS:NE2	1:G:1022:VAL:O	2.41	0.50
1:G:1617:THR:HG22	1:G:1628:VAL:HG13	1.93	0.50
1:G:1808:ARG:HD3	1:G:1853:ILE:HG22	1.92	0.50
1:G:3034:LYS:HA	1:G:3037:GLU:HG3	1.94	0.50
1:G:3354:LEU:HB2	1:G:3415:TYR:CE2	2.47	0.50
1:G:3940:LYS:O	1:G:4002:LYS:NZ	2.36	0.50
1:J:792:LEU:HD22	1:J:799:GLU:H	1.77	0.50
1:J:2879:ALA:HA	1:J:2882:TYR:CD2	2.47	0.50
1:J:3034:LYS:HA	1:J:3037:GLU:HG3	1.94	0.50
1:J:3573:MET:O	1:J:3577:ARG:HG2	2.12	0.50
1:B:229:GLU:HA	1:B:249:GLY:HA3	1.92	0.50
1:B:1492:CYS:SG	1:B:1493:TYR:N	2.84	0.50
1:B:3921:ASP:O	1:B:3925:ARG:HG3	2.12	0.50
1:B:3935:TRP:NE1	1:E:80:GLU:OE1	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:790:ARG:HD2	1:E:1624:LEU:HB3	1.92	0.50
1:E:1464:PHE:HA	1:E:1468:LYS:HD2	1.92	0.50
1:E:2206:THR:O	1:E:2210:VAL:HG23	2.11	0.50
1:E:2380:ILE:O	1:E:2384:ILE:HG13	2.11	0.50
1:E:2522:LEU:HB3	1:E:2527:LEU:HD23	1.93	0.50
1:E:2645:THR:HB	1:E:2702:CYS:HA	1.93	0.50
1:E:2816:MET:HB3	1:E:2878:LEU:HD13	1.94	0.50
1:G:1816:GLY:O	1:G:1820:ARG:HG2	2.11	0.50
1:G:2777:TYR:CE2	1:G:2793:PRO:HD3	2.46	0.50
1:G:3573:MET:O	1:G:3577:ARG:HG2	2.12	0.50
1:J:229:GLU:HA	1:J:249:GLY:HA3	1.92	0.50
1:J:470:SER:HA	1:J:473:ASN:ND2	2.26	0.50
1:J:548:VAL:HG21	1:J:582:HIS:HD2	1.76	0.50
1:J:1816:GLY:O	1:J:1820:ARG:HG2	2.11	0.50
1:J:3036:LYS:HD2	1:J:3079:THR:HG21	1.92	0.50
1:J:3354:LEU:HB2	1:J:3415:TYR:CE2	2.47	0.50
1:J:3769:ARG:O	1:J:3773:ARG:NH1	2.44	0.50
1:J:3839:CYS:O	1:J:3925:ARG:NH2	2.44	0.50
3:F:105:ASN:HD21	3:F:107:TRP:HB3	1.77	0.50
1:B:50:GLU:O	1:B:52:THR:HG23	2.12	0.50
1:B:1727:ARG:O	1:B:1731:LEU:HG	2.12	0.50
1:B:2381:GLU:O	1:B:2385:ARG:HG2	2.11	0.50
1:B:4822:THR:O	1:B:4825:THR:OG1	2.23	0.50
1:E:1159:THR:HG22	1:E:1180:ARG:HA	1.94	0.50
1:E:2866:THR:HB	1:E:2872:GLN:HB2	1.94	0.50
1:E:2963:LEU:O	1:E:2967:MET:HG2	2.11	0.50
1:E:3034:LYS:HA	1:E:3037:GLU:HG3	1.94	0.50
1:E:4183:ILE:HD13	1:E:4193:ILE:HD11	1.93	0.50
1:G:858:THR:HG21	1:G:931:THR:HG22	1.92	0.50
1:G:1464:PHE:HA	1:G:1468:LYS:HD2	1.92	0.50
1:G:2479:LEU:HA	1:G:2541:PHE:HZ	1.76	0.50
1:G:2866:THR:HB	1:G:2872:GLN:HB2	1.94	0.50
1:G:3384:LYS:NZ	1:G:3386:GLU:OE1	2.43	0.50
1:G:3839:CYS:O	1:G:3925:ARG:NH2	2.44	0.50
1:G:3877:ASP:HB3	1:G:3880:PHE:HB3	1.93	0.50
1:G:3980:LEU:O	1:G:3986:TRP:NE1	2.43	0.50
1:J:1087:ARG:HB3	1:J:1223:PHE:CD1	2.46	0.50
1:J:1617:THR:HG22	1:J:1628:VAL:HG13	1.93	0.50
1:J:1727:ARG:O	1:J:1731:LEU:HG	2.11	0.50
1:J:2747:ILE:HG12	1:J:2755:ILE:HG13	1.94	0.50
1:B:1694:LEU:HB3	1:B:1715:LEU:HD12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1782:PHE:O	2:A:82:TYR:OH	2.22	0.50
1:B:2866:THR:HB	1:B:2872:GLN:HB2	1.94	0.50
1:B:3093:ARG:O	1:B:3097:GLU:HG2	2.11	0.50
1:B:3132:THR:HA	1:B:3136:LEU:HB2	1.92	0.50
1:B:3400:VAL:HG23	1:B:3403:ARG:HE	1.77	0.50
1:E:993:HIS:NE2	1:E:1022:VAL:O	2.41	0.50
1:E:1528:THR:HG23	1:E:1539:PHE:CE1	2.46	0.50
1:E:2879:ALA:HA	1:E:2882:TYR:CD2	2.47	0.50
1:E:3921:ASP:O	1:E:3925:ARG:HG3	2.12	0.50
1:G:1492:CYS:SG	1:G:1493:TYR:N	2.84	0.50
1:G:2013:LYS:NZ	1:G:3661:TRP:O	2.44	0.50
1:G:2645:THR:HB	1:G:2702:CYS:HA	1.93	0.50
1:G:4999:ASP:HB2	1:G:5002:GLU:CG	2.38	0.50
1:J:1065:ASN:HA	1:J:1068:ARG:HH21	1.77	0.50
1:J:1291:LEU:HD11	1:J:1564:PHE:CE2	2.46	0.50
1:J:2012:PHE:CZ	1:J:2031:LEU:HD23	2.47	0.50
1:B:77:ALA:HB2	1:G:3935:TRP:CH2	2.47	0.50
1:B:1858:ASP:O	1:B:1862:ILE:HG13	2.12	0.50
1:B:2013:LYS:NZ	1:B:3661:TRP:O	2.44	0.50
1:B:2354:VAL:HG11	1:B:2453:ILE:HD12	1.93	0.50
1:B:2522:LEU:HB3	1:B:2527:LEU:HD23	1.93	0.50
1:B:5014:TYR:HD1	1:B:5019:TRP:HE1	1.57	0.50
1:E:116:MET:HG3	1:E:139:GLU:HA	1.94	0.50
1:E:907:LEU:O	1:E:963:ASN:ND2	2.44	0.50
1:G:907:LEU:O	1:G:963:ASN:ND2	2.44	0.50
1:G:1159:THR:HG22	1:G:1180:ARG:HA	1.94	0.50
1:G:1858:ASP:O	1:G:1862:ILE:HG13	2.12	0.50
1:G:3281:LEU:HD13	1:G:3307:VAL:HG21	1.94	0.50
1:G:4063:ASP:HB2	1:G:4067:LYS:HE3	1.93	0.50
1:J:2866:THR:HB	1:J:2872:GLN:HB2	1.94	0.50
1:B:574:VAL:O	1:B:578:ILE:HG12	2.11	0.50
1:E:1858:ASP:O	1:E:1862:ILE:HG13	2.12	0.50
1:E:3839:CYS:O	1:E:3925:ARG:NH2	2.44	0.50
1:G:1065:ASN:HA	1:G:1068:ARG:HH21	1.77	0.50
1:G:2251:PHE:CD2	1:G:2286:LEU:HD22	2.47	0.50
1:G:2668:SER:HB3	1:G:2671:GLU:HG3	1.93	0.50
1:G:2816:MET:HB3	1:G:2878:LEU:HD13	1.94	0.50
1:G:2879:ALA:HA	1:G:2882:TYR:CD2	2.47	0.50
1:G:3921:ASP:O	1:G:3925:ARG:HG3	2.12	0.50
1:G:4569:LEU:HD13	1:G:4650:HIS:HA	1.94	0.50
1:J:307:ALA:HB1	1:J:312:THR:HG21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:747:CYS:SG	1:J:756:SER:HB2	2.52	0.50
1:J:897:ARG:HB3	3:K:58:ASN:OD1	2.12	0.50
1:J:2206:THR:O	1:J:2210:VAL:HG23	2.11	0.50
1:J:2645:THR:HB	1:J:2702:CYS:HA	1.93	0.50
1:J:2777:TYR:CE2	1:J:2793:PRO:HD3	2.46	0.50
1:J:2788:HIS:CE1	1:J:2790:MET:HB2	2.47	0.50
1:J:3032:SER:O	1:J:3036:LYS:HG3	2.12	0.50
1:J:3877:ASP:HB3	1:J:3880:PHE:HB3	1.93	0.50
1:J:4063:ASP:HB2	1:J:4067:LYS:HE3	1.93	0.50
2:A:13:ARG:HH11	2:A:13:ARG:C	2.12	0.50
3:C:18:LEU:HB2	3:C:82:MET:HB3	1.93	0.50
3:F:33:SER:OG	3:F:101:PRO:HA	2.12	0.50
3:K:33:SER:OG	3:K:101:PRO:HA	2.12	0.50
3:M:122:GLN:HE21	3:M:124:THR:HG1	1.54	0.50
1:B:663:TYR:HD1	1:B:747:CYS:HB3	1.75	0.50
1:B:3032:SER:O	1:B:3036:LYS:HG3	2.12	0.50
1:B:3514:LEU:HD11	1:B:3606:LEU:HD13	1.94	0.50
1:E:229:GLU:HA	1:E:249:GLY:HA3	1.92	0.50
1:E:3400:VAL:HG23	1:E:3403:ARG:HE	1.77	0.50
1:G:116:MET:HG3	1:G:139:GLU:HA	1.94	0.50
1:G:266:ARG:HG2	1:G:268:SER:H	1.76	0.50
1:G:1291:LEU:HD11	1:G:1564:PHE:CE2	2.46	0.50
1:G:4183:ILE:HD13	1:G:4193:ILE:HD11	1.93	0.50
1:J:924:MET:HE2	3:K:107:TRP:HB2	1.93	0.50
2:H:13:ARG:HH11	2:H:13:ARG:C	2.12	0.50
1:B:116:MET:HG3	1:B:139:GLU:HA	1.94	0.49
1:B:492:ASP:OD1	1:B:546:TRP:NE1	2.44	0.49
1:B:3839:CYS:O	1:B:3925:ARG:NH2	2.44	0.49
1:E:470:SER:HA	1:E:473:ASN:HD21	1.76	0.49
1:E:548:VAL:HG21	1:E:582:HIS:HD2	1.77	0.49
1:E:747:CYS:SG	1:E:756:SER:HB2	2.52	0.49
1:E:1727:ARG:O	1:E:1731:LEU:HG	2.12	0.49
1:G:470:SER:HA	1:G:473:ASN:ND2	2.26	0.49
1:G:747:CYS:SG	1:G:756:SER:HB2	2.52	0.49
1:G:790:ARG:HD2	1:G:1624:LEU:HB3	1.92	0.49
1:G:1578:ALA:HA	1:G:1584:ARG:HH12	1.77	0.49
1:G:2908:TYR:HA	1:G:2911:LEU:CD2	2.42	0.49
1:J:45:ARG:HD3	1:J:45:ARG:H	1.77	0.49
1:J:920:TYR:HE1	3:K:99:ARG:HE	1.58	0.49
1:J:2251:PHE:CD2	1:J:2286:LEU:HD22	2.46	0.49
1:J:4569:LEU:HD13	1:J:4650:HIS:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:TYR:CG	1:B:373:LYS:HG3	2.47	0.49
1:B:1578:ALA:HA	1:B:1584:ARG:HH12	1.78	0.49
1:B:2163:ARG:HA	1:B:2166:LEU:HG	1.94	0.49
1:B:2489:LYS:HE2	1:B:2491:SER:HB3	1.94	0.49
1:B:2908:TYR:HA	1:B:2911:LEU:CD2	2.42	0.49
1:B:3034:LYS:HA	1:B:3037:GLU:HG3	1.94	0.49
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.47	0.49
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.11	0.49
1:B:4581:LYS:HE2	1:B:4632:LEU:HD22	1.93	0.49
1:B:5014:TYR:O	1:B:5017:ARG:NH2	2.43	0.49
1:E:266:ARG:HG2	1:E:268:SER:H	1.76	0.49
1:E:369:LEU:HB3	1:E:371:VAL:HG23	1.94	0.49
1:E:1291:LEU:HD11	1:E:1564:PHE:CE2	2.46	0.49
1:E:2012:PHE:CZ	1:E:2031:LEU:HD23	2.47	0.49
1:E:3354:LEU:HB2	1:E:3415:TYR:CE2	2.47	0.49
1:G:229:GLU:HA	1:G:249:GLY:HA3	1.92	0.49
1:G:2206:THR:O	1:G:2210:VAL:HG23	2.11	0.49
1:J:1699:GLU:HG3	1:J:1810:LYS:HZ2	1.77	0.49
1:J:2522:LEU:HB3	1:J:2527:LEU:HD23	1.93	0.49
1:J:3260:GLY:HA2	1:J:3325:ASN:ND2	2.27	0.49
1:J:3536:ALA:HB2	1:J:3553:LEU:HD21	1.93	0.49
1:J:4183:ILE:HD13	1:J:4193:ILE:HD11	1.93	0.49
1:B:1291:LEU:HD11	1:B:1564:PHE:CE2	2.46	0.49
1:B:2251:PHE:CD2	1:B:2286:LEU:HD22	2.47	0.49
1:B:3281:LEU:HD13	1:B:3307:VAL:HG21	1.93	0.49
1:E:2251:PHE:CD2	1:E:2286:LEU:HD22	2.47	0.49
1:E:3573:MET:O	1:E:3577:ARG:HG2	2.12	0.49
1:G:1037:ASP:O	1:G:1041:GLN:HG2	2.13	0.49
1:G:2747:ILE:HG12	1:G:2755:ILE:HG13	1.94	0.49
1:G:3536:ALA:HB2	1:G:3553:LEU:HD21	1.93	0.49
1:G:4581:LYS:HE2	1:G:4632:LEU:HD22	1.94	0.49
1:J:590:LEU:HG	1:J:599:VAL:HG11	1.93	0.49
1:J:1424:PRO:O	1:J:1428:LEU:HG	2.13	0.49
1:J:1578:ALA:HA	1:J:1584:ARG:HH12	1.78	0.49
1:J:2013:LYS:NZ	1:J:3661:TRP:O	2.44	0.49
1:J:2882:TYR:O	1:J:2886:TRP:HE3	1.95	0.49
1:J:3400:VAL:HG23	1:J:3403:ARG:HE	1.77	0.49
1:J:3511:VAL:HG23	1:J:3515:LYS:HD2	1.94	0.49
1:J:4581:LYS:HE2	1:J:4632:LEU:HD22	1.94	0.49
3:C:33:SER:OG	3:C:101:PRO:HA	2.12	0.49
1:B:470:SER:HA	1:B:473:ASN:HD21	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.47	0.49
1:B:2874:MET:HE1	1:B:2939:ARG:HG3	1.94	0.49
1:E:50:GLU:O	1:E:52:THR:HG23	2.12	0.49
1:E:1065:ASN:OD1	1:E:1069:TRP:NE1	2.46	0.49
1:E:1578:ALA:HA	1:E:1584:ARG:HH12	1.78	0.49
1:E:2163:ARG:HA	1:E:2166:LEU:HG	1.94	0.49
1:E:3536:ALA:HB2	1:E:3553:LEU:HD21	1.93	0.49
1:E:3886:ARG:HD2	1:E:3889:GLN:HE21	1.78	0.49
1:E:3935:TRP:CH2	1:J:77:ALA:HB2	2.47	0.49
1:E:3937:TYR:HA	1:E:3940:LYS:HE2	1.94	0.49
1:G:50:GLU:O	1:G:52:THR:HG23	2.12	0.49
1:G:77:ALA:HB2	1:J:3935:TRP:CH2	2.47	0.49
1:G:307:ALA:HB1	1:G:312:THR:HG21	1.94	0.49
1:G:897:ARG:HB3	3:M:58:ASN:OD1	2.11	0.49
1:G:1065:ASN:OD1	1:G:1069:TRP:NE1	2.46	0.49
1:J:116:MET:HG3	1:J:139:GLU:HA	1.94	0.49
1:J:266:ARG:HG2	1:J:268:SER:H	1.76	0.49
3:K:105:ASN:HD21	3:K:107:TRP:HB3	1.77	0.49
1:B:747:CYS:SG	1:B:756:SER:HB2	2.52	0.49
1:B:1528:THR:HG23	1:B:1539:PHE:CE1	2.46	0.49
1:B:2879:ALA:HA	1:B:2882:TYR:CD2	2.47	0.49
1:B:4569:LEU:HD13	1:B:4650:HIS:HA	1.94	0.49
1:E:590:LEU:HG	1:E:599:VAL:HG11	1.93	0.49
1:E:881:LEU:O	1:E:885:THR:HG23	2.13	0.49
1:E:1613:LEU:H	1:E:1613:LEU:HD12	1.78	0.49
1:E:2354:VAL:HG11	1:E:2453:ILE:HD12	1.93	0.49
1:E:2747:ILE:HG12	1:E:2755:ILE:HG13	1.94	0.49
1:E:2788:HIS:CE1	1:E:2790:MET:HB2	2.47	0.49
1:E:3032:SER:O	1:E:3036:LYS:HG3	2.12	0.49
1:E:3268:HIS:CE1	1:E:3272:ILE:HD12	2.48	0.49
1:G:548:VAL:HG21	1:G:582:HIS:HD2	1.76	0.49
1:G:1727:ARG:O	1:G:1731:LEU:HG	2.12	0.49
1:G:2163:ARG:HA	1:G:2166:LEU:HG	1.94	0.49
1:G:2380:ILE:O	1:G:2384:ILE:HG13	2.11	0.49
1:G:2788:HIS:CE1	1:G:2790:MET:HB2	2.47	0.49
1:G:2882:TYR:O	1:G:2886:TRP:HE3	1.96	0.49
1:G:3886:ARG:O	1:G:3890:LEU:HG	2.12	0.49
1:J:1613:LEU:H	1:J:1613:LEU:HD12	1.78	0.49
1:J:2354:VAL:HG11	1:J:2453:ILE:HD12	1.93	0.49
1:J:2908:TYR:HA	1:J:2911:LEU:CD2	2.42	0.49
3:F:4:LEU:HD12	3:F:24:ALA:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:307:ALA:HB1	1:B:312:THR:HG21	1.94	0.49
1:B:792:LEU:HD22	1:B:799:GLU:H	1.77	0.49
1:B:881:LEU:O	1:B:885:THR:HG23	2.13	0.49
1:B:1424:PRO:O	1:B:1428:LEU:HG	2.13	0.49
1:E:1424:PRO:O	1:E:1428:LEU:HG	2.13	0.49
1:E:2489:LYS:HE2	1:E:2491:SER:HB3	1.94	0.49
1:E:3260:GLY:HA2	1:E:3325:ASN:ND2	2.27	0.49
1:E:3281:LEU:HD13	1:E:3307:VAL:HG21	1.94	0.49
1:E:3943:ILE:HG12	1:E:4009:GLN:HE22	1.77	0.49
1:G:1866:ILE:O	1:G:1926:LEU:N	2.45	0.49
1:G:2012:PHE:CZ	1:G:2031:LEU:HD23	2.47	0.49
1:G:2354:VAL:HG11	1:G:2453:ILE:HD12	1.93	0.49
1:G:5014:TYR:O	1:G:5017:ARG:NH2	2.43	0.49
1:J:246:TYR:CG	1:J:373:LYS:HG3	2.48	0.49
1:J:1065:ASN:OD1	1:J:1069:TRP:NE1	2.46	0.49
1:J:2190:VAL:HA	1:J:2193:GLN:HB3	1.95	0.49
1:B:897:ARG:HB3	3:C:58:ASN:OD1	2.13	0.49
1:B:2645:THR:HB	1:B:2702:CYS:HA	1.93	0.49
1:B:2827:ARG:NE	1:B:2935:TYR:OH	2.27	0.49
1:B:3511:VAL:HG23	1:B:3515:LYS:HD2	1.94	0.49
1:B:4219:PHE:HD1	1:B:4950:VAL:HG11	1.78	0.49
1:B:4795:TYR:HD1	1:B:4796:MET:HE2	1.77	0.49
1:E:307:ALA:HB1	1:E:312:THR:HG21	1.94	0.49
1:E:3727:ASP:HB3	1:E:3731:LYS:NZ	2.28	0.49
1:E:4219:PHE:HD1	1:E:4950:VAL:HG11	1.78	0.49
1:G:181:HIS:ND1	1:G:196:MET:HB2	2.28	0.49
1:G:251:ALA:O	1:G:255:HIS:ND1	2.46	0.49
1:G:2190:VAL:HA	1:G:2193:GLN:HB3	1.95	0.49
1:G:3032:SER:O	1:G:3036:LYS:HG3	2.12	0.49
1:J:1782:PHE:O	2:I:82:TYR:OH	2.22	0.49
1:J:2668:SER:HB3	1:J:2671:GLU:HG3	1.93	0.49
1:J:2827:ARG:NE	1:J:2935:TYR:OH	2.27	0.49
1:J:3268:HIS:CE1	1:J:3272:ILE:HD12	2.48	0.49
1:J:3921:ASP:O	1:J:3925:ARG:HG3	2.12	0.49
3:C:4:LEU:HD12	3:C:24:ALA:HB2	1.95	0.49
3:F:18:LEU:HB2	3:F:82:MET:HB3	1.94	0.49
3:K:4:LEU:HD12	3:K:24:ALA:HB2	1.95	0.49
3:K:18:LEU:HB2	3:K:82:MET:HB3	1.94	0.49
1:B:2190:VAL:HA	1:B:2193:GLN:HB3	1.95	0.49
1:B:3457:ASN:O	1:B:3461:GLN:HG2	2.12	0.49
1:B:3886:ARG:HD2	1:B:3889:GLN:HE21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.13	0.49
1:B:4183:ILE:HD13	1:B:4193:ILE:HD11	1.93	0.49
1:E:920:TYR:HE1	3:F:99:ARG:HE	1.58	0.49
1:E:1065:ASN:HA	1:E:1068:ARG:HH21	1.77	0.49
1:E:2443:ILE:HD12	1:E:2454:ARG:NH1	2.28	0.49
1:E:3514:LEU:HD11	1:E:3606:LEU:HD13	1.94	0.49
1:E:4569:LEU:HD13	1:E:4650:HIS:HA	1.94	0.49
1:G:590:LEU:HG	1:G:599:VAL:HG11	1.93	0.49
1:G:2653:LYS:HE2	1:G:2661:TRP:HA	1.94	0.49
1:G:4059:LEU:HD13	1:G:4167:ALA:HB2	1.95	0.49
1:G:4207:MET:HG2	1:G:4208:PRO:HD2	1.95	0.49
1:J:181:HIS:ND1	1:J:196:MET:HB2	2.28	0.49
1:J:1866:ILE:O	1:J:1926:LEU:N	2.45	0.49
1:J:2163:ARG:HA	1:J:2166:LEU:HG	1.94	0.49
1:J:2479:LEU:HA	1:J:2541:PHE:HZ	1.76	0.49
1:J:2673:HIS:CE1	1:J:2677:LYS:HE2	2.48	0.49
1:J:3937:TYR:HA	1:J:3940:LYS:HE2	1.94	0.49
1:B:181:HIS:ND1	1:B:196:MET:HB2	2.28	0.49
1:B:2575:ARG:NH1	1:B:2575:ARG:HA	2.28	0.49
1:B:2653:LYS:HE2	1:B:2661:TRP:HA	1.94	0.49
1:B:2788:HIS:CE1	1:B:2790:MET:HB2	2.47	0.49
1:B:2882:TYR:O	1:B:2886:TRP:HE3	1.95	0.49
1:B:3316:LEU:HD22	1:B:3346:VAL:HA	1.95	0.49
1:B:3670:GLU:HA	1:B:3673:MET:HG2	1.95	0.49
1:B:3935:TRP:CH2	1:E:77:ALA:HB2	2.47	0.49
1:E:3511:VAL:HG23	1:E:3515:LYS:HD2	1.94	0.49
1:E:3670:GLU:HA	1:E:3673:MET:HG2	1.95	0.49
1:G:1734:TYR:HD2	1:G:2141:ALA:HA	1.77	0.49
1:G:2821:TRP:HA	1:G:2938:THR:O	2.13	0.49
1:G:3260:GLY:HA2	1:G:3325:ASN:ND2	2.27	0.49
1:G:3514:LEU:HD11	1:G:3606:LEU:HD13	1.94	0.49
1:G:4128:PHE:HA	1:G:4131:ARG:HE	1.78	0.49
1:J:881:LEU:O	1:J:885:THR:HG23	2.13	0.49
1:J:907:LEU:O	1:J:963:ASN:ND2	2.45	0.49
1:J:2134:LEU:O	1:J:2138:LEU:HG	2.13	0.49
1:J:2470:ILE:HB	1:J:2502:MET:HE3	1.95	0.49
1:J:3281:LEU:HD13	1:J:3307:VAL:HG21	1.94	0.49
1:J:3727:ASP:HB3	1:J:3731:LYS:NZ	2.28	0.49
1:B:582:HIS:O	1:B:586:ILE:HG13	2.13	0.49
1:B:1433:TYR:CZ	1:B:1578:ALA:HB2	2.48	0.49
1:B:2380:ILE:O	1:B:2384:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2479:LEU:HA	1:B:2541:PHE:HZ	1.76	0.49
1:B:2861:ASP:HB3	1:B:2928:LYS:HB2	1.95	0.49
1:B:2902:HIS:HB3	1:B:2905:LEU:HB2	1.95	0.49
1:B:3769:ARG:O	1:B:3773:ARG:NH1	2.44	0.49
1:B:3877:ASP:HB3	1:B:3880:PHE:HB3	1.94	0.49
1:E:45:ARG:HD3	1:E:45:ARG:H	1.77	0.49
1:E:792:LEU:HD22	1:E:799:GLU:H	1.77	0.49
1:E:2190:VAL:HA	1:E:2193:GLN:HB3	1.95	0.49
1:E:2823:ILE:HB	1:E:2935:TYR:HD1	1.78	0.49
1:E:3955:MET:HB2	1:E:4019:LEU:HD22	1.95	0.49
1:G:2443:ILE:HD12	1:G:2454:ARG:NH1	2.28	0.49
1:G:3937:TYR:HA	1:G:3940:LYS:HE2	1.94	0.49
1:J:2500:ALA:HB2	1:J:2553:TYR:HD1	1.78	0.49
1:J:2823:ILE:HB	1:J:2935:TYR:HD1	1.78	0.49
1:J:3670:GLU:HA	1:J:3673:MET:HG2	1.95	0.49
1:J:4207:MET:HG2	1:J:4208:PRO:HD2	1.95	0.49
1:J:4219:PHE:HD1	1:J:4950:VAL:HG11	1.78	0.49
1:B:2443:ILE:HD12	1:B:2454:ARG:NH1	2.28	0.48
1:B:2470:ILE:HB	1:B:2502:MET:HE3	1.95	0.48
1:B:4128:PHE:HA	1:B:4131:ARG:HE	1.78	0.48
1:E:181:HIS:ND1	1:E:196:MET:HB2	2.28	0.48
1:E:1008:SER:HB2	1:E:1017:ARG:NE	2.28	0.48
1:E:1433:TYR:CZ	1:E:1578:ALA:HB2	2.48	0.48
1:E:1439:VAL:HB	1:E:1514:LEU:HB3	1.95	0.48
1:E:3877:ASP:HB3	1:E:3880:PHE:HB3	1.94	0.48
1:G:1424:PRO:O	1:G:1428:LEU:HG	2.13	0.48
1:G:1528:THR:HG23	1:G:1539:PHE:CE1	2.46	0.48
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.47	0.48
1:G:2902:HIS:HB3	1:G:2905:LEU:HB2	1.95	0.48
1:G:3103:ILE:O	1:G:3107:VAL:HG13	2.13	0.48
1:G:3159:ASP:HA	1:G:3162:GLN:HE21	1.78	0.48
1:G:3192:GLU:O	1:G:3196:ARG:HG2	2.13	0.48
1:G:3670:GLU:HA	1:G:3673:MET:HG2	1.95	0.48
1:J:369:LEU:HB3	1:J:371:VAL:HG23	1.95	0.48
1:J:2443:ILE:HD12	1:J:2454:ARG:NH1	2.28	0.48
1:J:4059:LEU:HD13	1:J:4167:ALA:HB2	1.95	0.48
3:M:4:LEU:HD12	3:M:24:ALA:HB2	1.95	0.48
3:M:18:LEU:HB2	3:M:82:MET:HB3	1.94	0.48
1:B:1613:LEU:H	1:B:1613:LEU:HD12	1.78	0.48
1:B:2134:LEU:O	1:B:2138:LEU:HG	2.13	0.48
1:B:2823:ILE:HB	1:B:2935:TYR:HD1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4059:LEU:HD13	1:B:4167:ALA:HB2	1.95	0.48
1:E:251:ALA:O	1:E:255:HIS:ND1	2.46	0.48
1:E:1866:ILE:O	1:E:1926:LEU:N	2.45	0.48
1:E:2575:ARG:NH1	1:E:2575:ARG:HA	2.28	0.48
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.13	0.48
1:G:2861:ASP:HB3	1:G:2928:LYS:HB2	1.95	0.48
1:G:3268:HIS:CE1	1:G:3272:ILE:HD12	2.48	0.48
1:G:3943:ILE:HG12	1:G:4009:GLN:HE22	1.77	0.48
1:G:3955:MET:HB2	1:G:4019:LEU:HD22	1.95	0.48
1:G:4219:PHE:HD1	1:G:4950:VAL:HG11	1.78	0.48
1:J:50:GLU:O	1:J:52:THR:HG23	2.12	0.48
1:J:582:HIS:O	1:J:586:ILE:HG13	2.13	0.48
1:J:2821:TRP:HA	1:J:2938:THR:O	2.13	0.48
1:J:3889:GLN:HB3	1:J:3964:SER:HA	1.95	0.48
1:J:4096:ALA:O	1:J:4100:GLN:HG2	2.13	0.48
3:M:105:ASN:HD21	3:M:107:TRP:HB3	1.77	0.48
1:B:1065:ASN:OD1	1:B:1069:TRP:NE1	2.46	0.48
1:B:2747:ILE:HG12	1:B:2755:ILE:HG13	1.94	0.48
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.14	0.48
1:B:3268:HIS:CE1	1:B:3272:ILE:HD12	2.48	0.48
1:B:3937:TYR:HA	1:B:3940:LYS:HE2	1.94	0.48
1:B:4586:PRO:HB3	1:B:4628:VAL:HG21	1.96	0.48
1:E:652:ARG:HG2	1:E:750:LEU:HB3	1.95	0.48
1:E:838:HIS:CD2	1:E:1201:HIS:HB2	2.49	0.48
1:E:1225:PRO:HG2	1:E:1228:ILE:HD12	1.95	0.48
1:E:2376:LEU:O	1:E:2380:ILE:HG12	2.13	0.48
1:E:2908:TYR:HA	1:E:2911:LEU:CD2	2.42	0.48
1:E:4096:ALA:O	1:E:4100:GLN:HG2	2.13	0.48
1:E:4207:MET:HG2	1:E:4208:PRO:HD2	1.95	0.48
1:G:838:HIS:CD2	1:G:1201:HIS:HB2	2.49	0.48
1:G:881:LEU:O	1:G:885:THR:HG23	2.13	0.48
1:G:1225:PRO:HG2	1:G:1228:ILE:HD12	1.95	0.48
1:G:1433:TYR:CZ	1:G:1578:ALA:HB2	2.48	0.48
1:G:2673:HIS:CE1	1:G:2677:LYS:HE2	2.48	0.48
1:G:3889:GLN:HB3	1:G:3964:SER:HA	1.96	0.48
1:G:4586:PRO:HB3	1:G:4628:VAL:HG21	1.96	0.48
1:J:1037:ASP:O	1:J:1041:GLN:HG2	2.13	0.48
1:J:2376:LEU:O	1:J:2380:ILE:HG12	2.13	0.48
1:J:2902:HIS:HB3	1:J:2905:LEU:HB2	1.95	0.48
1:B:462:GLU:HG2	1:B:3710:LEU:HD13	1.96	0.48
1:B:838:HIS:CD2	1:B:1201:HIS:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1037:ASP:O	1:B:1041:GLN:HG2	2.13	0.48
1:B:1065:ASN:HA	1:B:1068:ARG:HH21	1.77	0.48
1:B:1087:ARG:CZ	1:B:1222:GLY:HA3	2.43	0.48
1:B:1734:TYR:HD2	1:B:2141:ALA:HA	1.77	0.48
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.78	0.48
1:B:2883:HIS:NE2	1:B:2906:VAL:O	2.46	0.48
1:B:3103:ILE:O	1:B:3107:VAL:HG13	2.13	0.48
1:E:1037:ASP:O	1:E:1041:GLN:HG2	2.13	0.48
1:E:3316:LEU:HD22	1:E:3346:VAL:HA	1.95	0.48
1:G:582:HIS:O	1:G:586:ILE:HG13	2.13	0.48
1:G:1613:LEU:H	1:G:1613:LEU:HD12	1.78	0.48
1:G:2489:LYS:HE2	1:G:2491:SER:HB3	1.94	0.48
1:G:2823:ILE:HB	1:G:2935:TYR:HD1	1.78	0.48
1:G:4096:ALA:O	1:G:4100:GLN:HG2	2.13	0.48
1:J:1008:SER:HB2	1:J:1017:ARG:NE	2.28	0.48
1:J:1087:ARG:CZ	1:J:1222:GLY:HA3	2.43	0.48
1:J:1802:ILE:O	1:J:1804:LEU:HD22	2.14	0.48
1:J:2888:ARG:O	1:J:2892:GLN:HG2	2.14	0.48
1:J:3194:LEU:HD11	1:J:3275:PRO:HB2	1.96	0.48
1:B:931:THR:O	1:B:935:LEU:HG	2.14	0.48
1:B:1225:PRO:HG2	1:B:1228:ILE:HD12	1.95	0.48
1:B:1439:VAL:HB	1:B:1514:LEU:HB3	1.95	0.48
1:B:3727:ASP:HB3	1:B:3731:LYS:NZ	2.28	0.48
1:E:582:HIS:O	1:E:586:ILE:HG13	2.13	0.48
1:E:2595:LEU:HB2	1:E:2600:ARG:NE	2.25	0.48
1:E:2821:TRP:HA	1:E:2938:THR:O	2.13	0.48
1:E:2883:HIS:NE2	1:E:2906:VAL:O	2.47	0.48
1:E:2902:HIS:HB3	1:E:2905:LEU:HB2	1.95	0.48
1:E:3159:ASP:HA	1:E:3162:GLN:HE21	1.78	0.48
1:E:4128:PHE:HA	1:E:4131:ARG:HE	1.78	0.48
1:G:45:ARG:H	1:G:45:ARG:HD3	1.77	0.48
1:G:931:THR:O	1:G:935:LEU:HG	2.14	0.48
1:G:1802:ILE:O	1:G:1804:LEU:HD22	2.14	0.48
1:G:5003:HIS:HD2	1:G:5007:GLU:HB3	1.79	0.48
1:J:838:HIS:CD2	1:J:1201:HIS:HB2	2.49	0.48
1:J:1433:TYR:CZ	1:J:1578:ALA:HB2	2.48	0.48
1:J:2447:LYS:O	1:J:2451:LEU:HG	2.14	0.48
1:J:2823:ILE:HD12	1:J:2935:TYR:CD1	2.49	0.48
1:J:3639:THR:N	1:J:3640:PRO:HD2	2.29	0.48
1:J:3886:ARG:HD2	1:J:3889:GLN:HE21	1.78	0.48
1:J:3955:MET:HB2	1:J:4019:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:7:ILE:HD11	2:I:73:LYS:HB2	1.96	0.48
1:B:251:ALA:O	1:B:255:HIS:ND1	2.46	0.48
1:B:1964:ARG:O	1:B:1968:LYS:HG3	2.14	0.48
1:B:3548:GLU:HG2	1:B:3552:PHE:CE2	2.49	0.48
1:B:3955:MET:HB2	1:B:4019:LEU:HD22	1.95	0.48
1:B:4207:MET:HG2	1:B:4208:PRO:HD2	1.95	0.48
1:E:2653:LYS:HE2	1:E:2661:TRP:HA	1.94	0.48
1:E:3194:LEU:HD11	1:E:3275:PRO:HB2	1.96	0.48
1:E:3889:GLN:HB3	1:E:3964:SER:HA	1.95	0.48
1:G:492:ASP:OD1	1:G:546:TRP:NE1	2.44	0.48
1:G:1161:ILE:HG12	1:G:1177:THR:HG22	1.96	0.48
1:G:2500:ALA:HB2	1:G:2553:TYR:HD1	1.78	0.48
1:G:3047:ALA:HB1	1:G:3095:PHE:CE1	2.49	0.48
1:G:3316:LEU:HD22	1:G:3346:VAL:HA	1.95	0.48
1:G:3727:ASP:HB3	1:G:3731:LYS:NZ	2.28	0.48
1:J:1945:TYR:O	1:J:1949:GLN:HG2	2.14	0.48
1:J:3159:ASP:HA	1:J:3162:GLN:HE21	1.78	0.48
1:B:45:ARG:HD3	1:B:45:ARG:H	1.77	0.48
1:B:2447:LYS:O	1:B:2451:LEU:HG	2.14	0.48
1:B:2821:TRP:HA	1:B:2938:THR:O	2.13	0.48
1:E:248:GLU:HB2	1:E:373:LYS:HA	1.96	0.48
1:E:998:ARG:HA	1:E:1001:VAL:HG22	1.95	0.48
1:E:1734:TYR:HD2	1:E:2141:ALA:HA	1.77	0.48
1:E:1964:ARG:O	1:E:1968:LYS:HG3	2.14	0.48
1:E:2861:ASP:HB3	1:E:2928:LYS:HB2	1.96	0.48
1:E:2882:TYR:O	1:E:2886:TRP:HE3	1.96	0.48
1:E:3639:THR:N	1:E:3640:PRO:HD2	2.29	0.48
1:E:3769:ARG:O	1:E:3773:ARG:NH1	2.44	0.48
1:E:4580:TYR:HA	1:E:4632:LEU:H	1.79	0.48
1:G:51:PRO:O	1:G:53:SER:N	2.47	0.48
1:G:462:GLU:HG2	1:G:3710:LEU:HD13	1.96	0.48
1:G:1861:GLN:O	1:G:1865:MET:HE2	2.14	0.48
1:G:1945:TYR:O	1:G:1949:GLN:HG2	2.14	0.48
1:G:2247:GLN:HG3	1:G:2279:SER:HA	1.96	0.48
1:G:2575:ARG:NH1	1:G:2575:ARG:HA	2.28	0.48
1:G:3511:VAL:HG23	1:G:3515:LYS:HD2	1.94	0.48
1:J:1002:ALA:HB1	3:K:1:GLN:HE21	1.79	0.48
1:J:1734:TYR:HD2	1:J:2141:ALA:HA	1.77	0.48
1:J:2312:MET:SD	1:J:2313:LEU:HD22	2.54	0.48
1:J:2352:VAL:O	1:J:2356:LEU:HG	2.14	0.48
1:J:2489:LYS:HE2	1:J:2491:SER:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2861:ASP:HB3	1:J:2928:LYS:HB2	1.96	0.48
1:J:3192:GLU:O	1:J:3196:ARG:HG2	2.13	0.48
1:J:3514:LEU:HD11	1:J:3606:LEU:HD13	1.94	0.48
1:J:3943:ILE:HG12	1:J:4009:GLN:HE22	1.77	0.48
1:J:4580:TYR:HA	1:J:4632:LEU:H	1.79	0.48
1:J:4704:LEU:HA	1:J:4774:LYS:HE2	1.95	0.48
2:H:7:ILE:HD11	2:H:73:LYS:HB2	1.96	0.48
1:B:3284:TRP:HZ3	1:B:3304:CYS:HG	1.59	0.48
1:E:356:TRP:N	1:E:379:HIS:O	2.38	0.48
1:E:1229:ASN:HD22	1:E:1827:ARG:HG3	1.79	0.48
1:E:1258:ALA:HB3	1:E:1271:ARG:HB3	1.96	0.48
1:E:1945:TYR:O	1:E:1949:GLN:HG2	2.14	0.48
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.13	0.48
1:G:246:TYR:CG	1:G:373:LYS:HG3	2.49	0.48
1:G:652:ARG:HG2	1:G:750:LEU:HB3	1.95	0.48
1:G:1087:ARG:CZ	1:G:1222:GLY:HA3	2.43	0.48
1:G:3309:SER:HA	1:G:3312:LEU:HG	1.96	0.48
1:J:251:ALA:O	1:J:255:HIS:ND1	2.46	0.48
1:J:4128:PHE:HA	1:J:4131:ARG:HE	1.78	0.48
1:J:4586:PRO:HB3	1:J:4628:VAL:HG21	1.96	0.48
3:K:6:GLU:HA	3:K:21:SER:O	2.14	0.48
3:M:33:SER:OG	3:M:101:PRO:HA	2.12	0.48
1:B:369:LEU:HB3	1:B:371:VAL:HG23	1.95	0.48
1:B:995:VAL:HA	1:B:998:ARG:HG2	1.96	0.48
1:B:1161:ILE:HG12	1:B:1177:THR:HG22	1.96	0.48
1:B:2312:MET:SD	1:B:2313:LEU:HD22	2.54	0.48
1:B:3260:GLY:HA2	1:B:3325:ASN:ND2	2.27	0.48
1:B:3943:ILE:HG12	1:B:4009:GLN:HE22	1.77	0.48
1:B:4580:TYR:HA	1:B:4632:LEU:H	1.79	0.48
1:E:931:THR:O	1:E:935:LEU:HG	2.14	0.48
1:E:1087:ARG:CZ	1:E:1222:GLY:HA3	2.43	0.48
1:E:1802:ILE:O	1:E:1804:LEU:HD22	2.14	0.48
1:E:2673:HIS:CE1	1:E:2677:LYS:HE2	2.48	0.48
1:E:3192:GLU:O	1:E:3196:ARG:HG2	2.13	0.48
1:E:4059:LEU:HD13	1:E:4167:ALA:HB2	1.95	0.48
1:G:369:LEU:HB3	1:G:371:VAL:HG23	1.94	0.48
1:G:952:LYS:HG2	1:G:970:LEU:HA	1.96	0.48
1:G:998:ARG:HA	1:G:1001:VAL:HG22	1.95	0.48
1:G:1258:ALA:HB3	1:G:1271:ARG:HB3	1.96	0.48
1:J:462:GLU:HG2	1:J:3710:LEU:HD13	1.96	0.48
1:J:652:ARG:HG2	1:J:750:LEU:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:995:VAL:HA	1:J:998:ARG:HG2	1.96	0.48
1:J:1067:SER:O	1:J:1071:ARG:HD2	2.14	0.48
1:J:2653:LYS:HE2	1:J:2661:TRP:HA	1.94	0.48
1:J:3086:GLU:HA	1:J:3089:LYS:HE3	1.96	0.48
1:J:3316:LEU:HD22	1:J:3346:VAL:HA	1.95	0.48
1:J:3428:ASN:O	1:J:3432:GLU:HG2	2.14	0.48
1:B:893:TYR:H	1:B:962:SER:HB2	1.79	0.48
1:B:1802:ILE:O	1:B:1804:LEU:HD22	2.14	0.48
1:B:1945:TYR:O	1:B:1949:GLN:HG2	2.14	0.48
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.13	0.48
1:B:2694:GLU:OE1	1:B:2697:ARG:NH2	2.47	0.48
1:B:3047:ALA:HB1	1:B:3095:PHE:CE1	2.49	0.48
1:B:3889:GLN:HB3	1:B:3964:SER:HA	1.95	0.48
1:G:248:GLU:HA	1:G:372:LEU:O	2.12	0.48
1:G:1067:SER:O	1:G:1071:ARG:HD2	2.14	0.48
1:G:1229:ASN:HD22	1:G:1827:ARG:HG3	1.79	0.48
1:G:1714:LEU:O	1:G:1718:ILE:HG12	2.14	0.48
1:G:2312:MET:SD	1:G:2313:LEU:HD22	2.54	0.48
1:G:3400:VAL:HG23	1:G:3403:ARG:HE	1.77	0.48
1:J:893:TYR:H	1:J:962:SER:HB2	1.78	0.48
1:J:1163:THR:HG22	1:J:1168:VAL:HG22	1.96	0.48
1:J:1297:PHE:HA	1:J:1522:LEU:HD22	1.96	0.48
1:J:1964:ARG:O	1:J:1968:LYS:HG3	2.14	0.48
1:J:2575:ARG:NH1	1:J:2575:ARG:HA	2.28	0.48
1:J:3107:VAL:HG12	1:J:3175:LEU:HD23	1.96	0.48
1:J:4021:LYS:O	1:J:4025:VAL:HG23	2.14	0.48
2:D:7:ILE:HD11	2:D:73:LYS:HB2	1.96	0.48
1:B:51:PRO:O	1:B:53:SER:N	2.47	0.47
1:B:952:LYS:HG2	1:B:970:LEU:HA	1.96	0.47
1:B:1163:THR:HG22	1:B:1168:VAL:HG22	1.96	0.47
1:B:1440:PHE:CZ	1:B:1563:GLN:HB2	2.49	0.47
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.14	0.47
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.13	0.47
1:B:3811:GLU:O	1:B:3814:GLN:HG3	2.14	0.47
1:E:893:TYR:H	1:E:962:SER:HB2	1.78	0.47
1:E:1163:THR:HG22	1:E:1168:VAL:HG22	1.96	0.47
1:E:1440:PHE:CZ	1:E:1563:GLN:HB2	2.49	0.47
1:E:2352:VAL:O	1:E:2356:LEU:HG	2.14	0.47
1:E:2500:ALA:HB2	1:E:2553:TYR:HD1	1.78	0.47
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.14	0.47
1:E:4704:LEU:HA	1:E:4774:LYS:HE2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1964:ARG:O	1:G:1968:LYS:HG3	2.14	0.47
1:J:3103:ILE:O	1:J:3107:VAL:HG13	2.13	0.47
3:M:6:GLU:HA	3:M:21:SER:O	2.14	0.47
1:B:3051:ARG:HD2	1:B:3131:TYR:CE2	2.49	0.47
1:B:3445:TRP:HD1	1:B:3451:PHE:CE2	2.32	0.47
1:B:4023:MET:O	1:B:4027:LEU:HG	2.14	0.47
1:B:4704:LEU:HA	1:B:4774:LYS:HE2	1.95	0.47
1:B:5003:HIS:HD2	1:B:5007:GLU:HB3	1.79	0.47
1:E:462:GLU:HG2	1:E:3710:LEU:HD13	1.96	0.47
1:E:1297:PHE:HA	1:E:1522:LEU:HD22	1.96	0.47
1:E:2694:GLU:OE1	1:E:2697:ARG:NH2	2.47	0.47
1:E:2823:ILE:HD12	1:E:2935:TYR:CD1	2.49	0.47
1:E:2888:ARG:O	1:E:2892:GLN:HG2	2.14	0.47
1:E:4586:PRO:HB3	1:E:4628:VAL:HG21	1.96	0.47
1:G:2447:LYS:O	1:G:2451:LEU:HG	2.14	0.47
1:G:3445:TRP:HD1	1:G:3451:PHE:CE2	2.32	0.47
1:G:3548:GLU:HG2	1:G:3552:PHE:CE2	2.49	0.47
1:G:4704:LEU:HA	1:G:4774:LYS:HE2	1.95	0.47
1:G:4927:ILE:HD12	1:J:4936:ILE:HD13	1.96	0.47
1:J:952:LYS:HG2	1:J:970:LEU:HA	1.96	0.47
1:J:3047:ALA:HB1	1:J:3095:PHE:CE1	2.49	0.47
1:J:3309:SER:HA	1:J:3312:LEU:HG	1.95	0.47
1:B:652:ARG:HG2	1:B:750:LEU:HB3	1.95	0.47
1:B:867:LEU:HD12	1:B:871:ARG:HE	1.80	0.47
1:B:1229:ASN:HD22	1:B:1827:ARG:HG3	1.79	0.47
1:B:1714:LEU:O	1:B:1718:ILE:HG12	2.14	0.47
1:B:1866:ILE:O	1:B:1926:LEU:N	2.45	0.47
1:B:3137:LEU:HB3	1:B:3138:PRO:HD3	1.96	0.47
1:E:3103:ILE:O	1:E:3107:VAL:HG13	2.13	0.47
1:G:1163:THR:HG22	1:G:1168:VAL:HG22	1.96	0.47
1:G:2376:LEU:O	1:G:2380:ILE:HG12	2.13	0.47
1:G:2694:GLU:OE1	1:G:2697:ARG:NH2	2.47	0.47
1:G:2886:TRP:CD1	1:G:2889:LYS:HE2	2.50	0.47
1:G:2888:ARG:O	1:G:2892:GLN:HG2	2.14	0.47
1:G:3086:GLU:HA	1:G:3089:LYS:HE3	1.96	0.47
1:G:3194:LEU:HD11	1:G:3275:PRO:HB2	1.96	0.47
1:J:40:GLU:O	1:J:114:SER:OG	2.32	0.47
1:J:998:ARG:HA	1:J:1001:VAL:HG22	1.95	0.47
1:J:2883:HIS:NE2	1:J:2906:VAL:O	2.46	0.47
1:J:3051:ARG:HD2	1:J:3131:TYR:CE2	2.49	0.47
1:J:3946:GLN:OE1	1:J:3949:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:5003:HIS:HD2	1:J:5007:GLU:HB3	1.79	0.47
2:H:30:LEU:HD12	2:H:36:PHE:HD2	1.79	0.47
3:F:102:ASN:HB2	3:F:104:TYR:CE2	2.49	0.47
1:B:993:HIS:CE1	1:B:1027:LEU:HD11	2.49	0.47
1:B:2673:HIS:CE1	1:B:2677:LYS:HE2	2.48	0.47
1:B:3828:PHE:O	1:B:3832:ILE:HG12	2.15	0.47
1:E:952:LYS:HG2	1:E:970:LEU:HA	1.96	0.47
1:E:2096:GLU:O	1:E:2100:HIS:ND1	2.48	0.47
1:E:2633:LEU:HB2	1:E:2689:LYS:HE2	1.96	0.47
1:E:3099:ALA:O	1:E:3103:ILE:HG12	2.14	0.47
1:E:5003:HIS:HD2	1:E:5007:GLU:HB3	1.79	0.47
1:G:1297:PHE:HA	1:G:1522:LEU:HD22	1.96	0.47
1:G:2747:ILE:HD11	1:G:2751:LEU:HD11	1.96	0.47
1:G:2823:ILE:HD12	1:G:2935:TYR:CD1	2.49	0.47
1:G:3946:GLN:OE1	1:G:3949:ARG:NH2	2.48	0.47
1:G:4580:TYR:HA	1:G:4632:LEU:H	1.79	0.47
1:J:1225:PRO:HG2	1:J:1228:ILE:HD12	1.95	0.47
1:J:2886:TRP:CD1	1:J:2889:LYS:HE2	2.50	0.47
1:J:4023:MET:O	1:J:4027:LEU:HG	2.15	0.47
2:A:7:ILE:HD11	2:A:73:LYS:HB2	1.96	0.47
3:F:6:GLU:HA	3:F:21:SER:O	2.14	0.47
3:K:102:ASN:HB2	3:K:104:TYR:CE2	2.49	0.47
1:B:1297:PHE:HA	1:B:1522:LEU:HD22	1.96	0.47
1:B:3159:ASP:HA	1:B:3162:GLN:HE21	1.78	0.47
1:B:3309:SER:HA	1:B:3312:LEU:HG	1.96	0.47
1:B:3428:ASN:O	1:B:3432:GLU:HG2	2.14	0.47
1:B:3442:PHE:HE1	1:B:3510:ILE:HG22	1.80	0.47
1:E:525:LEU:O	1:E:529:LEU:HG	2.15	0.47
1:E:3086:GLU:HA	1:E:3089:LYS:HE3	1.96	0.47
1:E:3428:ASN:O	1:E:3432:GLU:HG2	2.14	0.47
1:G:1007:TYR:O	1:G:1017:ARG:NH2	2.48	0.47
1:G:1439:VAL:HB	1:G:1514:LEU:HB3	1.95	0.47
1:G:1741:GLU:O	1:G:1745:ILE:HG13	2.15	0.47
1:G:2096:GLU:O	1:G:2100:HIS:ND1	2.48	0.47
1:G:3639:THR:N	1:G:3640:PRO:HD2	2.29	0.47
1:J:2595:LEU:HB2	1:J:2600:ARG:NE	2.25	0.47
1:J:3034:LYS:O	1:J:3037:GLU:HG3	2.15	0.47
1:J:3828:PHE:O	1:J:3832:ILE:HG12	2.14	0.47
3:C:6:GLU:HA	3:C:21:SER:O	2.14	0.47
1:B:1452:TRP:CZ3	1:B:1550:PRO:HG3	2.49	0.47
1:B:1699:GLU:HG3	1:B:1810:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.15	0.47
1:B:1965:TYR:CZ	1:B:2031:LEU:HB2	2.50	0.47
1:E:51:PRO:O	1:E:53:SER:N	2.47	0.47
1:E:867:LEU:HD12	1:E:871:ARG:HE	1.79	0.47
1:E:2447:LYS:O	1:E:2451:LEU:HG	2.14	0.47
1:E:3137:LEU:HB3	1:E:3138:PRO:HD3	1.96	0.47
1:E:3445:TRP:HD1	1:E:3451:PHE:CE2	2.32	0.47
1:E:3676:ASP:HA	1:E:3679:LYS:HE2	1.97	0.47
1:G:404:ILE:HD13	1:G:481:GLU:HG3	1.96	0.47
1:G:867:LEU:HD12	1:G:871:ARG:HE	1.80	0.47
1:G:993:HIS:CE1	1:G:1027:LEU:HD11	2.49	0.47
1:G:1822:GLY:HA3	1:G:1838:PHE:HZ	1.79	0.47
1:G:2352:VAL:O	1:G:2356:LEU:HG	2.14	0.47
1:G:3034:LYS:O	1:G:3037:GLU:HG3	2.15	0.47
1:J:931:THR:O	1:J:935:LEU:HG	2.14	0.47
1:J:1452:TRP:CZ3	1:J:1550:PRO:HG3	2.49	0.47
1:J:2247:GLN:HG3	1:J:2279:SER:HA	1.96	0.47
1:J:2694:GLU:OE1	1:J:2697:ARG:NH2	2.47	0.47
1:J:3445:TRP:HD1	1:J:3451:PHE:CE2	2.33	0.47
1:J:4725:LEU:HA	1:J:4737:ILE:HG21	1.97	0.47
3:C:102:ASN:HB2	3:C:104:TYR:CE2	2.50	0.47
3:K:105:ASN:ND2	3:K:108:GLY:H	2.12	0.47
1:B:525:LEU:O	1:B:529:LEU:HG	2.15	0.47
1:B:920:TYR:O	1:B:923:GLN:HG2	2.15	0.47
1:B:1100:MET:HB2	1:B:1143:TRP:CH2	2.50	0.47
1:B:2499:LYS:HA	1:B:2502:MET:HG3	1.96	0.47
1:B:2633:LEU:HB2	1:B:2689:LYS:HE2	1.96	0.47
1:B:2823:ILE:HD12	1:B:2935:TYR:CD1	2.49	0.47
1:B:2886:TRP:CD1	1:B:2889:LYS:HE2	2.50	0.47
1:B:3099:ALA:O	1:B:3103:ILE:HG12	2.14	0.47
1:B:3107:VAL:HG12	1:B:3175:LEU:HD23	1.96	0.47
1:B:3107:VAL:HG12	1:B:3175:LEU:HB3	1.96	0.47
1:B:3172:ILE:O	1:B:3175:LEU:HG	2.15	0.47
1:B:3194:LEU:HD11	1:B:3275:PRO:HB2	1.96	0.47
1:B:3639:THR:N	1:B:3640:PRO:HD2	2.29	0.47
1:B:3891:LEU:O	1:B:3896:ASN:ND2	2.36	0.47
1:B:4021:LYS:O	1:B:4025:VAL:HG23	2.14	0.47
1:B:4661:TYR:OH	1:B:4786:ASP:OD2	2.30	0.47
1:E:1067:SER:O	1:E:1071:ARG:HD2	2.14	0.47
1:E:1452:TRP:CZ3	1:E:1550:PRO:HG3	2.50	0.47
1:E:2312:MET:SD	1:E:2313:LEU:HD22	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2747:ILE:HD11	1:E:2751:LEU:HD11	1.96	0.47
1:E:2792:ARG:HB2	1:E:2793:PRO:HD2	1.97	0.47
1:E:3047:ALA:HB1	1:E:3095:PHE:CE1	2.49	0.47
1:E:3107:VAL:HG12	1:E:3175:LEU:HD23	1.96	0.47
1:E:3172:ILE:O	1:E:3175:LEU:HG	2.15	0.47
1:E:3309:SER:HA	1:E:3312:LEU:HG	1.95	0.47
1:E:3548:GLU:HG2	1:E:3552:PHE:CE2	2.49	0.47
1:E:4020:GLN:HG2	1:E:4139:ILE:HD11	1.97	0.47
1:E:4023:MET:O	1:E:4027:LEU:HG	2.15	0.47
1:E:4088:ILE:HD12	1:E:4093:PHE:CD1	2.50	0.47
1:E:4936:ILE:HD13	1:J:4927:ILE:HD12	1.97	0.47
1:G:1440:PHE:CZ	1:G:1563:GLN:HB2	2.49	0.47
1:G:2439:GLU:O	1:G:2443:ILE:HG12	2.15	0.47
1:G:3051:ARG:HD2	1:G:3131:TYR:CE2	2.49	0.47
1:G:3099:ALA:O	1:G:3103:ILE:HG12	2.14	0.47
1:G:3107:VAL:HG12	1:G:3175:LEU:HB3	1.96	0.47
1:G:3172:ILE:O	1:G:3175:LEU:HG	2.15	0.47
1:G:3225:ARG:O	1:G:3229:ILE:HG23	2.15	0.47
1:G:3828:PHE:O	1:G:3832:ILE:HG12	2.15	0.47
1:J:993:HIS:CE1	1:J:1027:LEU:HD11	2.49	0.47
1:J:1440:PHE:CZ	1:J:1563:GLN:HB2	2.49	0.47
1:J:2633:LEU:HB2	1:J:2689:LYS:HE2	1.96	0.47
1:J:3099:ALA:O	1:J:3103:ILE:HG12	2.14	0.47
1:J:3137:LEU:HB3	1:J:3138:PRO:HD3	1.97	0.47
2:A:30:LEU:HD12	2:A:36:PHE:HD2	1.79	0.47
2:D:30:LEU:HD12	2:D:36:PHE:HD2	1.80	0.47
1:B:45:ARG:HB2	1:B:137:LEU:HB2	1.97	0.47
1:B:998:ARG:HA	1:B:1001:VAL:HG22	1.95	0.47
1:B:2247:GLN:HG3	1:B:2279:SER:HA	1.96	0.47
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.15	0.47
1:B:2747:ILE:HD11	1:B:2751:LEU:HD11	1.96	0.47
1:E:4094:GLN:HG3	1:E:4108:ILE:HG21	1.97	0.47
1:G:1452:TRP:CZ3	1:G:1550:PRO:HG3	2.49	0.47
1:G:1699:GLU:HG3	1:G:1810:LYS:NZ	2.30	0.47
1:G:2913:ALA:HA	1:G:2916:LYS:HB3	1.97	0.47
1:G:3816:MET:O	1:G:3820:LEU:HG	2.15	0.47
1:G:4725:LEU:HA	1:G:4737:ILE:HG21	1.97	0.47
1:J:51:PRO:O	1:J:53:SER:N	2.47	0.47
1:J:985:VAL:HG11	1:J:1040:CYS:SG	2.55	0.47
1:J:1822:GLY:HA3	1:J:1838:PHE:HZ	1.79	0.47
1:J:2096:GLU:O	1:J:2100:HIS:ND1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2439:GLU:O	1:J:2443:ILE:HG12	2.15	0.47
1:J:2499:LYS:HA	1:J:2502:MET:HG3	1.96	0.47
1:B:977:LEU:HD12	1:B:1044:ARG:HD3	1.97	0.47
1:B:3180:ASN:OD1	1:B:3181:THR:N	2.48	0.47
1:B:3225:ARG:O	1:B:3229:ILE:HG23	2.15	0.47
1:B:3699:HIS:HA	1:B:3702:VAL:HG22	1.97	0.47
1:E:341:TYR:CE2	1:E:392:ARG:HB2	2.50	0.47
1:E:1100:MET:HB2	1:E:1143:TRP:CH2	2.50	0.47
1:E:1161:ILE:HG12	1:E:1177:THR:HG22	1.96	0.47
1:E:3811:GLU:O	1:E:3814:GLN:HG3	2.14	0.47
1:G:1814:MET:HA	1:G:1817:GLU:HG2	1.97	0.47
1:G:1965:TYR:CZ	1:G:2031:LEU:HB2	2.50	0.47
1:G:2499:LYS:HA	1:G:2502:MET:HG3	1.96	0.47
1:J:1161:ILE:HG12	1:J:1177:THR:HG22	1.96	0.47
1:J:1528:THR:HG23	1:J:1539:PHE:CE1	2.46	0.47
1:J:3107:VAL:HG12	1:J:3175:LEU:HB3	1.96	0.47
1:J:3172:ILE:O	1:J:3175:LEU:HG	2.15	0.47
1:J:3442:PHE:HE1	1:J:3510:ILE:HG22	1.80	0.47
1:J:3540:TYR:CZ	1:J:3549:VAL:HG21	2.50	0.47
1:J:3811:GLU:O	1:J:3814:GLN:HG3	2.14	0.47
1:J:4020:GLN:HG2	1:J:4139:ILE:HD11	1.97	0.47
3:K:15:GLY:H	3:K:85:LEU:HB2	1.80	0.47
3:M:102:ASN:HB2	3:M:104:TYR:CE2	2.49	0.47
1:B:1005:TRP:HE3	1:B:1021:LEU:HD11	1.80	0.47
1:B:1258:ALA:HB3	1:B:1271:ARG:HB3	1.96	0.47
1:B:2325:PRO:HB2	1:B:2421:ALA:HB1	1.97	0.47
1:B:2509:VAL:HG23	1:B:2510:TYR:H	1.79	0.47
1:B:2584:HIS:O	1:B:2588:ARG:HG3	2.15	0.47
1:B:2792:ARG:HB2	1:B:2793:PRO:HD2	1.97	0.47
1:E:977:LEU:HD12	1:E:1044:ARG:HD3	1.97	0.47
1:E:1007:TYR:O	1:E:1017:ARG:NH2	2.48	0.47
1:E:1100:MET:SD	1:E:1194:LEU:HG	2.55	0.47
1:E:1699:GLU:HG3	1:E:1810:LYS:NZ	2.30	0.47
1:E:1822:GLY:HA3	1:E:1838:PHE:HZ	1.79	0.47
1:E:2886:TRP:CD1	1:E:2889:LYS:HE2	2.50	0.47
1:E:2999:ALA:HB3	1:E:3000:LYS:HZ2	1.80	0.47
1:E:3003:LEU:HB2	1:E:3004:PRO:HD3	1.97	0.47
1:E:3699:HIS:HA	1:E:3702:VAL:HG22	1.97	0.47
1:G:525:LEU:O	1:G:529:LEU:HG	2.15	0.47
1:G:1619:ARG:HA	1:G:1626:TRP:HA	1.97	0.47
1:G:2792:ARG:HB2	1:G:2793:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3290:GLU:OE1	1:G:3309:SER:N	2.44	0.47
1:G:3811:GLU:O	1:G:3814:GLN:HG3	2.14	0.47
1:G:4094:GLN:HG3	1:G:4108:ILE:HG21	1.97	0.47
1:J:341:TYR:CE2	1:J:392:ARG:HB2	2.50	0.47
1:J:891:TRP:HA	1:J:902:ARG:HB3	1.97	0.47
1:J:1229:ASN:HD22	1:J:1827:ARG:HG3	1.79	0.47
1:J:1245:PHE:CD2	1:J:1290:ARG:HG2	2.51	0.47
1:J:1439:VAL:HB	1:J:1514:LEU:HB3	1.95	0.47
1:J:1699:GLU:HG3	1:J:1810:LYS:NZ	2.30	0.47
1:J:2747:ILE:HD11	1:J:2751:LEU:HD11	1.96	0.47
1:J:3704:HIS:O	1:J:3708:THR:HG23	2.15	0.47
1:J:4088:ILE:HD12	1:J:4093:PHE:CD1	2.50	0.47
1:B:985:VAL:HG11	1:B:1040:CYS:SG	2.55	0.46
1:B:1067:SER:O	1:B:1071:ARG:HD2	2.14	0.46
1:B:3034:LYS:O	1:B:3037:GLU:HG3	2.15	0.46
1:B:3057:PHE:HB2	1:B:3060:ASP:HB2	1.97	0.46
1:B:3540:TYR:CZ	1:B:3549:VAL:HG21	2.50	0.46
1:B:3704:HIS:O	1:B:3708:THR:HG23	2.15	0.46
1:B:3720:TYR:HA	1:B:3723:MET:HE2	1.97	0.46
1:E:985:VAL:HG11	1:E:1040:CYS:SG	2.55	0.46
1:E:993:HIS:CE1	1:E:1027:LEU:HD11	2.49	0.46
1:E:1699:GLU:HG3	1:E:1810:LYS:HZ2	1.81	0.46
1:E:1782:PHE:O	2:D:82:TYR:OH	2.24	0.46
1:E:3180:ASN:OD1	1:E:3181:THR:N	2.48	0.46
1:E:3225:ARG:O	1:E:3229:ILE:HG23	2.15	0.46
1:G:893:TYR:H	1:G:962:SER:HB2	1.78	0.46
1:G:3107:VAL:HG12	1:G:3175:LEU:HD23	1.96	0.46
1:J:404:ILE:HD13	1:J:481:GLU:HG3	1.97	0.46
1:J:867:LEU:HD12	1:J:871:ARG:HE	1.80	0.46
1:J:1007:TYR:O	1:J:1017:ARG:NH2	2.48	0.46
1:J:2509:VAL:HG23	1:J:2510:TYR:H	1.79	0.46
1:J:3548:GLU:HG2	1:J:3552:PHE:CE2	2.49	0.46
1:J:4666:VAL:HG11	1:J:4783:ILE:HD12	1.97	0.46
2:I:19:GLY:HA2	2:I:49:ARG:HD3	1.97	0.46
3:F:94:TYR:CD1	3:F:120:GLY:HA3	2.51	0.46
1:B:404:ILE:HD13	1:B:481:GLU:HG3	1.96	0.46
1:B:1822:GLY:HA3	1:B:1838:PHE:HZ	1.79	0.46
1:B:4088:ILE:HD12	1:B:4093:PHE:CD1	2.50	0.46
1:E:40:GLU:O	1:E:114:SER:OG	2.32	0.46
1:E:1005:TRP:HE3	1:E:1021:LEU:HD11	1.80	0.46
1:E:2389:ASP:OD2	1:E:2392:ARG:NE	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2443:ILE:HD12	1:E:2454:ARG:HH11	1.80	0.46
1:E:3034:LYS:O	1:E:3037:GLU:HG3	2.15	0.46
1:E:3051:ARG:HD2	1:E:3131:TYR:CE2	2.49	0.46
1:E:3107:VAL:HG12	1:E:3175:LEU:HB3	1.96	0.46
1:G:995:VAL:HA	1:G:998:ARG:HG2	1.96	0.46
1:G:1100:MET:HB2	1:G:1143:TRP:CH2	2.50	0.46
1:G:1758:ARG:NH1	1:G:2037:ASP:OD1	2.49	0.46
1:G:3137:LEU:HB3	1:G:3138:PRO:HD3	1.96	0.46
1:G:3428:ASN:O	1:G:3432:GLU:HG2	2.14	0.46
1:G:3704:HIS:O	1:G:3708:THR:HG23	2.15	0.46
1:G:3886:ARG:CD	1:G:3889:GLN:HE21	2.28	0.46
1:G:4088:ILE:HD12	1:G:4093:PHE:CD1	2.50	0.46
1:G:4666:VAL:HG11	1:G:4783:ILE:HD12	1.97	0.46
1:J:3225:ARG:O	1:J:3229:ILE:HG23	2.15	0.46
1:J:3443:ILE:HG22	1:J:3605:HIS:ND1	2.31	0.46
1:B:1100:MET:SD	1:B:1194:LEU:HG	2.56	0.46
1:B:1758:ARG:NH1	1:B:2037:ASP:OD1	2.49	0.46
1:B:2096:GLU:O	1:B:2100:HIS:ND1	2.48	0.46
1:B:3017:PHE:HB2	1:B:3074:SER:HB2	1.98	0.46
1:B:3996:PHE:O	1:B:4000:MET:HG3	2.16	0.46
1:B:4105:GLY:O	1:B:4109:GLN:HG2	2.16	0.46
1:B:4835:LYS:HD3	1:B:4835:LYS:N	2.31	0.46
1:B:4936:ILE:HD13	1:E:4927:ILE:HD12	1.97	0.46
1:E:891:TRP:HA	1:E:902:ARG:HB3	1.97	0.46
1:E:920:TYR:O	1:E:923:GLN:HG2	2.15	0.46
1:E:924:MET:HE1	3:F:106:PRO:HD2	1.98	0.46
1:E:1860:LYS:HG2	1:E:1864:LYS:HE2	1.98	0.46
1:E:2509:VAL:HG23	1:E:2510:TYR:H	1.79	0.46
1:E:3828:PHE:O	1:E:3832:ILE:HG12	2.15	0.46
1:G:1245:PHE:CD2	1:G:1290:ARG:HG2	2.50	0.46
1:G:3180:ASN:OD1	1:G:3181:THR:N	2.48	0.46
1:G:3540:TYR:CZ	1:G:3549:VAL:HG21	2.50	0.46
1:G:4105:GLY:O	1:G:4109:GLN:HG2	2.16	0.46
1:J:525:LEU:O	1:J:529:LEU:HG	2.15	0.46
1:J:1619:ARG:HA	1:J:1626:TRP:HA	1.97	0.46
1:J:1691:GLN:HE22	1:J:1803:PRO:HD2	1.81	0.46
1:J:1714:LEU:O	1:J:1718:ILE:HG12	2.14	0.46
1:J:3057:PHE:HB2	1:J:3060:ASP:HB2	1.97	0.46
3:C:94:TYR:CD1	3:C:120:GLY:HA3	2.51	0.46
3:M:15:GLY:H	3:M:85:LEU:HB2	1.80	0.46
3:M:94:TYR:CD1	3:M:120:GLY:HA3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:917:GLU:OE2	3:C:101:PRO:HB2	2.16	0.46
1:B:1814:MET:HA	1:B:1817:GLU:HG2	1.97	0.46
1:B:1860:LYS:HG2	1:B:1864:LYS:HE2	1.98	0.46
1:B:3086:GLU:HA	1:B:3089:LYS:HE3	1.96	0.46
1:B:3816:MET:O	1:B:3820:LEU:HG	2.15	0.46
1:B:4020:GLN:HG2	1:B:4139:ILE:HD11	1.97	0.46
1:E:995:VAL:HA	1:E:998:ARG:HG2	1.96	0.46
1:E:1934:SER:O	1:E:1938:GLN:HG2	2.16	0.46
1:E:4779:LYS:HA	1:E:4782:VAL:HG22	1.98	0.46
1:G:356:TRP:N	1:G:379:HIS:O	2.38	0.46
1:G:1860:LYS:HG2	1:G:1864:LYS:HE2	1.98	0.46
1:G:2633:LEU:HB2	1:G:2689:LYS:HE2	1.96	0.46
1:G:3511:VAL:HG22	1:G:3516:LYS:NZ	2.31	0.46
1:J:844:ARG:HH12	1:J:1071:ARG:HH21	1.63	0.46
1:J:3180:ASN:OD1	1:J:3181:THR:N	2.48	0.46
1:J:3181:THR:O	1:J:3185:LYS:HG2	2.16	0.46
1:B:356:TRP:N	1:B:379:HIS:O	2.38	0.46
1:B:1007:TYR:O	1:B:1017:ARG:NH2	2.48	0.46
1:B:2892:GLN:O	1:B:2895:GLU:HG2	2.16	0.46
1:B:2906:VAL:HG23	1:B:2911:LEU:HB3	1.97	0.46
1:B:3568:SER:O	1:B:3571:TRP:NE1	2.49	0.46
1:B:4745:LEU:O	1:B:4748:LEU:HG	2.15	0.46
1:E:844:ARG:HH12	1:E:1071:ARG:HH21	1.63	0.46
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.98	0.46
1:E:1708:ARG:O	1:E:1712:TYR:HD1	1.99	0.46
1:E:1965:TYR:CZ	1:E:2031:LEU:HB2	2.50	0.46
1:E:2499:LYS:HA	1:E:2502:MET:HG3	1.96	0.46
1:E:3443:ILE:HG22	1:E:3605:HIS:ND1	2.31	0.46
1:E:3529:ASP:O	1:E:3533:ILE:HG12	2.16	0.46
1:E:3704:HIS:O	1:E:3708:THR:HG23	2.15	0.46
1:E:3946:GLN:OE1	1:E:3949:ARG:NH2	2.48	0.46
1:G:985:VAL:HG11	1:G:1040:CYS:SG	2.55	0.46
1:G:1691:GLN:HE22	1:G:1803:PRO:HD2	1.81	0.46
1:G:2325:PRO:HB2	1:G:2421:ALA:HB1	1.97	0.46
1:G:3443:ILE:HG22	1:G:3605:HIS:ND1	2.31	0.46
1:G:3529:ASP:O	1:G:3533:ILE:HG12	2.16	0.46
1:G:4992:LEU:O	1:G:4996:ILE:HG13	2.16	0.46
1:J:231:LEU:HD11	1:J:245:VAL:HB	1.97	0.46
1:J:1005:TRP:HE3	1:J:1021:LEU:HD11	1.80	0.46
1:J:1100:MET:SD	1:J:1194:LEU:HG	2.56	0.46
1:J:1100:MET:HB2	1:J:1143:TRP:CH2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1741:GLU:O	1:J:1745:ILE:HG13	2.15	0.46
1:J:1861:GLN:O	1:J:1865:MET:HE2	2.15	0.46
1:J:1934:SER:O	1:J:1938:GLN:HG2	2.16	0.46
1:J:2792:ARG:HB2	1:J:2793:PRO:HD2	1.97	0.46
1:J:3003:LEU:HB2	1:J:3004:PRO:HD3	1.97	0.46
1:J:3816:MET:O	1:J:3820:LEU:HG	2.15	0.46
3:C:15:GLY:H	3:C:85:LEU:HB2	1.80	0.46
1:B:276:TRP:HZ3	1:B:346:CYS:HA	1.81	0.46
1:B:920:TYR:HE1	3:C:99:ARG:HE	1.59	0.46
1:B:1002:ALA:HB1	3:C:1:GLN:HE21	1.80	0.46
1:B:1691:GLN:HE22	1:B:1803:PRO:HD2	1.81	0.46
1:B:4666:VAL:HG11	1:B:4783:ILE:HD12	1.97	0.46
1:E:1714:LEU:O	1:E:1718:ILE:HG12	2.14	0.46
1:E:1758:ARG:NH1	1:E:2037:ASP:OD1	2.49	0.46
1:E:2584:HIS:O	1:E:2588:ARG:HG3	2.15	0.46
1:E:2707:ALA:HB1	1:E:3009:TYR:HD1	1.81	0.46
1:E:2906:VAL:HG23	1:E:2911:LEU:HB3	1.97	0.46
1:E:3181:THR:O	1:E:3185:LYS:HG2	2.16	0.46
1:E:3996:PHE:O	1:E:4000:MET:HG3	2.16	0.46
1:E:4666:VAL:HG11	1:E:4783:ILE:HD12	1.97	0.46
1:E:4700:GLN:OE1	1:E:4703:ARG:NH1	2.49	0.46
1:E:4725:LEU:HA	1:E:4737:ILE:HG21	1.97	0.46
1:G:157:ARG:HH21	1:G:161:GLU:HB3	1.81	0.46
1:G:341:TYR:CE2	1:G:392:ARG:HB2	2.50	0.46
1:G:1100:MET:SD	1:G:1194:LEU:HG	2.55	0.46
1:G:1699:GLU:HG3	1:G:1810:LYS:HZ2	1.79	0.46
1:G:2588:ARG:HA	1:G:2591:ARG:HE	1.81	0.46
1:G:2702:CYS:O	1:G:2706:ILE:HG13	2.16	0.46
1:G:3676:ASP:HA	1:G:3679:LYS:HE2	1.96	0.46
1:J:918:ARG:O	1:J:922:LEU:HG	2.16	0.46
1:J:996:TRP:NE1	3:K:113:GLU:HB3	2.30	0.46
1:J:1561:VAL:HG23	1:J:1562:ILE:N	2.31	0.46
1:J:3290:GLU:OE1	1:J:3309:SER:N	2.44	0.46
1:J:3367:LYS:O	1:J:3371:LYS:HG2	2.16	0.46
1:J:3529:ASP:O	1:J:3533:ILE:HG12	2.16	0.46
2:D:19:GLY:HA2	2:D:49:ARG:HD3	1.97	0.46
1:B:2529:ASP:HB3	1:B:2554:LEU:HD21	1.98	0.46
1:B:2748:PRO:HB2	1:B:2750:LYS:HG2	1.98	0.46
1:B:3752:SER:O	1:B:3756:LYS:HG3	2.16	0.46
1:B:4094:GLN:HG3	1:B:4108:ILE:HG21	1.97	0.46
1:E:1561:VAL:HG23	1:E:1562:ILE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2529:ASP:HB3	1:E:2554:LEU:HD21	1.98	0.46
1:E:2588:ARG:HA	1:E:2591:ARG:HE	1.81	0.46
1:E:2970:SER:HB3	1:E:2998:PHE:CE2	2.51	0.46
1:E:3442:PHE:HE1	1:E:3510:ILE:HG22	1.80	0.46
1:E:3568:SER:O	1:E:3571:TRP:NE1	2.49	0.46
1:E:4772:ASP:OD1	1:E:4772:ASP:N	2.49	0.46
1:G:45:ARG:HB2	1:G:137:LEU:HB2	1.97	0.46
1:G:891:TRP:HA	1:G:902:ARG:HB3	1.97	0.46
1:G:1578:ALA:HA	1:G:1584:ARG:NH1	2.31	0.46
1:G:2624:ARG:HB3	1:G:2674:LEU:HD13	1.98	0.46
1:G:2957:PHE:HE1	1:G:2961:GLN:HE21	1.64	0.46
1:G:3367:LYS:O	1:G:3371:LYS:HG2	2.16	0.46
1:G:3996:PHE:O	1:G:4000:MET:HG3	2.16	0.46
1:J:1758:ARG:NH1	1:J:2037:ASP:OD1	2.49	0.46
1:J:1860:LYS:HG2	1:J:1864:LYS:HE2	1.98	0.46
1:J:1965:TYR:CZ	1:J:2031:LEU:HB2	2.50	0.46
1:J:2325:PRO:HB2	1:J:2421:ALA:HB1	1.97	0.46
1:J:2443:ILE:HD12	1:J:2454:ARG:HH11	1.80	0.46
1:J:2610:LEU:O	1:J:2614:ILE:HG12	2.16	0.46
1:J:2957:PHE:HE1	1:J:2961:GLN:HE21	1.64	0.46
1:J:3511:VAL:HG22	1:J:3516:LYS:NZ	2.31	0.46
1:J:3980:LEU:CD1	1:J:4030:LEU:HD21	2.46	0.46
1:J:4094:GLN:HG3	1:J:4108:ILE:HG21	1.97	0.46
1:J:4779:LYS:HA	1:J:4782:VAL:HG22	1.98	0.46
1:B:677:ALA:HB1	2:A:40:ARG:HB3	1.98	0.46
1:B:3443:ILE:HG22	1:B:3605:HIS:ND1	2.31	0.46
1:B:3511:VAL:HG22	1:B:3516:LYS:NZ	2.31	0.46
1:B:3529:ASP:O	1:B:3533:ILE:HG12	2.16	0.46
1:B:3676:ASP:HA	1:B:3679:LYS:HE2	1.97	0.46
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.97	0.46
1:E:276:TRP:HZ3	1:E:346:CYS:HA	1.81	0.46
1:E:404:ILE:HD13	1:E:481:GLU:HG3	1.96	0.46
1:E:2247:GLN:HG3	1:E:2279:SER:HA	1.96	0.46
1:E:2439:GLU:O	1:E:2443:ILE:HG12	2.15	0.46
1:E:4673:ARG:HH12	1:E:4698:LYS:HB2	1.81	0.46
1:E:4745:LEU:O	1:E:4748:LEU:HG	2.15	0.46
1:G:224:HIS:HA	1:G:388:LEU:HD22	1.98	0.46
1:G:231:LEU:HD11	1:G:245:VAL:HB	1.97	0.46
1:G:276:TRP:HZ3	1:G:346:CYS:HA	1.81	0.46
1:G:1557:THR:HG22	1:G:1557:THR:O	2.16	0.46
1:G:1934:SER:O	1:G:1938:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3354:LEU:HB2	1:G:3415:TYR:HE2	1.81	0.46
1:G:3442:PHE:HE1	1:G:3510:ILE:HG22	1.80	0.46
1:G:3568:SER:O	1:G:3571:TRP:NE1	2.49	0.46
1:G:4745:LEU:O	1:G:4748:LEU:HG	2.15	0.46
1:G:4835:LYS:HD3	1:G:4835:LYS:N	2.31	0.46
1:J:157:ARG:HH21	1:J:161:GLU:HB3	1.81	0.46
1:J:1087:ARG:HB3	1:J:1223:PHE:HA	1.98	0.46
1:J:3676:ASP:HA	1:J:3679:LYS:HE2	1.97	0.46
1:J:4745:LEU:O	1:J:4748:LEU:HG	2.15	0.46
1:J:4772:ASP:OD1	1:J:4772:ASP:N	2.49	0.46
2:A:19:GLY:HA2	2:A:49:ARG:HD3	1.97	0.46
2:I:30:LEU:HD12	2:I:36:PHE:HD2	1.79	0.46
3:C:105:ASN:ND2	3:C:108:GLY:H	2.14	0.46
1:B:157:ARG:HH21	1:B:161:GLU:HB3	1.81	0.46
1:B:231:LEU:HD11	1:B:245:VAL:HB	1.97	0.46
1:B:341:TYR:CE2	1:B:392:ARG:HB2	2.50	0.46
1:B:797:HIS:HE1	1:B:1626:TRP:HD1	1.63	0.46
1:B:1708:ARG:O	1:B:1712:TYR:HD1	1.99	0.46
1:B:1862:ILE:HA	1:B:1865:MET:HE3	1.97	0.46
1:B:2389:ASP:OD2	1:B:2392:ARG:NE	2.49	0.46
1:B:2913:ALA:HA	1:B:2916:LYS:HB3	1.97	0.46
1:E:73:LEU:HG	1:E:77:ALA:CB	2.46	0.46
1:E:918:ARG:O	1:E:922:LEU:HG	2.16	0.46
1:E:2624:ARG:HH22	1:E:2912:THR:CG2	2.28	0.46
1:E:2913:ALA:HA	1:E:2916:LYS:HB3	1.97	0.46
1:E:3540:TYR:CZ	1:E:3549:VAL:HG21	2.50	0.46
1:E:3816:MET:O	1:E:3820:LEU:HG	2.15	0.46
1:G:426:ARG:HG3	1:G:431:PRO:HD3	1.97	0.46
1:G:484:LEU:HD11	1:G:540:PHE:CE2	2.51	0.46
1:G:835:ARG:NH2	1:G:1203:ASN:HD22	2.09	0.46
1:G:2584:HIS:O	1:G:2588:ARG:HG3	2.15	0.46
1:G:2624:ARG:HH22	1:G:2912:THR:CG2	2.28	0.46
1:G:2883:HIS:CE1	1:G:2907:PRO:HA	2.51	0.46
1:G:3057:PHE:HB2	1:G:3060:ASP:HB2	1.97	0.46
1:G:3181:THR:O	1:G:3185:LYS:HG2	2.15	0.46
1:G:4700:GLN:OE1	1:G:4703:ARG:NH1	2.49	0.46
1:J:45:ARG:HB2	1:J:137:LEU:HB2	1.97	0.46
1:J:276:TRP:HZ3	1:J:346:CYS:HA	1.81	0.46
1:J:2702:CYS:O	1:J:2706:ILE:HG13	2.16	0.46
1:J:2892:GLN:O	1:J:2895:GLU:HG2	2.16	0.46
1:J:3648:ARG:HG2	1:J:3652:MET:HE1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4673:ARG:HH12	1:J:4698:LYS:HB2	1.81	0.46
3:M:75:LYS:HE3	3:M:77:THR:OG1	2.16	0.46
1:B:195:PHE:HZ	1:G:2359:ARG:HH11	1.64	0.46
1:B:891:TRP:HA	1:B:902:ARG:HB3	1.97	0.46
1:B:901:LYS:HD3	1:B:903:LEU:HD11	1.98	0.46
1:B:1245:PHE:CD2	1:B:1290:ARG:HG2	2.51	0.46
1:B:1578:ALA:HA	1:B:1584:ARG:NH1	2.31	0.46
1:E:1691:GLN:HE22	1:E:1803:PRO:HD2	1.81	0.46
1:E:3199:ALA:O	1:E:3283:ARG:NE	2.49	0.46
1:E:3367:LYS:O	1:E:3371:LYS:HG2	2.16	0.46
1:E:3592:ILE:HA	1:E:3595:ARG:HE	1.81	0.46
1:E:3980:LEU:CD1	1:E:4030:LEU:HD21	2.46	0.46
1:G:677:ALA:HB1	2:H:40:ARG:HB3	1.98	0.46
1:G:920:TYR:O	1:G:923:GLN:HG2	2.15	0.46
1:G:2389:ASP:OD2	1:G:2392:ARG:NE	2.49	0.46
1:G:2443:ILE:HD12	1:G:2454:ARG:HH11	1.80	0.46
1:G:3199:ALA:O	1:G:3283:ARG:NE	2.49	0.46
1:G:3978:GLN:O	1:G:3982:HIS:ND1	2.49	0.46
1:G:4020:GLN:HG2	1:G:4139:ILE:HD11	1.97	0.46
1:J:1557:THR:HG22	1:J:1557:THR:O	2.16	0.46
1:J:1561:VAL:HG23	1:J:1562:ILE:H	1.81	0.46
1:J:2588:ARG:HA	1:J:2591:ARG:HE	1.81	0.46
1:J:2748:PRO:HB2	1:J:2750:LYS:HG2	1.98	0.46
1:J:3199:ALA:O	1:J:3283:ARG:NE	2.49	0.46
1:J:3568:SER:O	1:J:3571:TRP:NE1	2.49	0.46
1:J:4227:GLU:HA	1:J:4230:LYS:HB2	1.98	0.46
1:J:4835:LYS:HD3	1:J:4835:LYS:N	2.31	0.46
3:C:75:LYS:HE3	3:C:77:THR:OG1	2.16	0.46
3:F:40:ALA:HB3	3:F:43:LYS:HB2	1.98	0.46
3:F:105:ASN:ND2	3:F:108:GLY:H	2.14	0.46
3:K:75:LYS:HE3	3:K:77:THR:OG1	2.16	0.46
1:B:913:LEU:HB3	1:B:917:GLU:CB	2.46	0.45
1:B:1857:GLU:O	1:B:1861:GLN:HG3	2.16	0.45
1:B:2595:LEU:HB2	1:B:2600:ARG:NE	2.25	0.45
1:B:3367:LYS:O	1:B:3371:LYS:HG2	2.16	0.45
1:E:14:LEU:HD21	1:E:204:PRO:HG3	1.98	0.45
1:E:1087:ARG:HB3	1:E:1223:PHE:HA	1.98	0.45
1:E:1245:PHE:CD2	1:E:1290:ARG:HG2	2.50	0.45
1:E:1561:VAL:HG23	1:E:1562:ILE:H	1.81	0.45
1:E:1857:GLU:O	1:E:1861:GLN:HG3	2.16	0.45
1:E:2325:PRO:HB2	1:E:2421:ALA:HB1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2610:LEU:O	1:E:2614:ILE:HG12	2.16	0.45
1:E:2748:PRO:HB2	1:E:2750:LYS:HG2	1.98	0.45
1:E:4661:TYR:OH	1:E:4786:ASP:OD2	2.30	0.45
1:E:4835:LYS:HD3	1:E:4835:LYS:N	2.31	0.45
1:G:901:LYS:HD3	1:G:903:LEU:HD11	1.98	0.45
1:G:2529:ASP:HB3	1:G:2554:LEU:HD21	1.98	0.45
1:G:2610:LEU:O	1:G:2614:ILE:HG12	2.16	0.45
1:G:2892:GLN:O	1:G:2895:GLU:HG2	2.16	0.45
1:G:2970:SER:HB3	1:G:2998:PHE:CE2	2.51	0.45
1:G:3017:PHE:HB2	1:G:3074:SER:HB2	1.98	0.45
1:J:73:LEU:HG	1:J:77:ALA:CB	2.46	0.45
1:J:920:TYR:O	1:J:923:GLN:HG2	2.16	0.45
1:J:1258:ALA:HB3	1:J:1271:ARG:HB3	1.96	0.45
1:J:2211:MET:HA	1:J:2214:VAL:HG12	1.98	0.45
1:J:2389:ASP:OD2	1:J:2392:ARG:NE	2.49	0.45
1:J:2913:ALA:HA	1:J:2916:LYS:HB3	1.97	0.45
1:J:3017:PHE:HB2	1:J:3074:SER:HB2	1.98	0.45
1:J:3727:ASP:HB3	1:J:3731:LYS:HZ1	1.80	0.45
1:J:3996:PHE:O	1:J:4000:MET:HG3	2.16	0.45
1:B:224:HIS:HA	1:B:388:LEU:HD22	1.98	0.45
1:B:426:ARG:HG3	1:B:431:PRO:HD3	1.97	0.45
1:B:1619:ARG:HA	1:B:1626:TRP:HA	1.97	0.45
1:B:1699:GLU:HG3	1:B:1810:LYS:HZ2	1.81	0.45
1:B:2707:ALA:HB1	1:B:3009:TYR:HD1	1.81	0.45
1:B:2965:ARG:HA	1:B:2968:ASP:OD2	2.16	0.45
1:B:2970:SER:HB3	1:B:2998:PHE:CE2	2.51	0.45
1:B:3592:ILE:HA	1:B:3595:ARG:HE	1.81	0.45
1:E:157:ARG:HH21	1:E:161:GLU:HB3	1.81	0.45
1:E:231:LEU:HD11	1:E:245:VAL:HB	1.97	0.45
1:E:484:LEU:HD11	1:E:540:PHE:CE2	2.51	0.45
1:E:1578:ALA:HA	1:E:1584:ARG:NH1	2.31	0.45
1:E:1814:MET:HA	1:E:1817:GLU:HG2	1.97	0.45
1:E:2359:ARG:HH11	1:J:195:PHE:HZ	1.64	0.45
1:E:2803:GLU:HA	1:E:2806:ARG:HE	1.81	0.45
1:E:2892:GLN:O	1:E:2895:GLU:HG2	2.16	0.45
1:E:2965:ARG:HA	1:E:2968:ASP:OD2	2.16	0.45
1:E:3057:PHE:HB2	1:E:3060:ASP:HB2	1.97	0.45
1:E:4647:SER:HG	1:E:4809:PHE:HZ	1.64	0.45
1:G:1005:TRP:HE3	1:G:1021:LEU:HD11	1.80	0.45
1:G:2509:VAL:HG23	1:G:2510:TYR:H	1.79	0.45
1:G:3003:LEU:HB2	1:G:3004:PRO:HD3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3592:ILE:HA	1:G:3595:ARG:HE	1.81	0.45
1:J:14:LEU:HD21	1:J:204:PRO:HG3	1.98	0.45
1:J:677:ALA:HB1	2:I:40:ARG:HB3	1.98	0.45
1:J:2584:HIS:O	1:J:2588:ARG:HG3	2.15	0.45
1:J:2707:ALA:HB1	1:J:3009:TYR:HD1	1.81	0.45
1:J:3354:LEU:HB2	1:J:3415:TYR:HE2	1.81	0.45
1:J:3699:HIS:HA	1:J:3702:VAL:HG22	1.97	0.45
1:J:3978:GLN:O	1:J:3982:HIS:ND1	2.49	0.45
3:K:94:TYR:CD1	3:K:120:GLY:HA3	2.50	0.45
1:B:73:LEU:HG	1:B:77:ALA:CB	2.46	0.45
1:B:484:LEU:HD11	1:B:540:PHE:CE2	2.51	0.45
1:B:918:ARG:O	1:B:922:LEU:HG	2.16	0.45
1:B:1561:VAL:HG23	1:B:1562:ILE:N	2.31	0.45
1:B:1934:SER:O	1:B:1938:GLN:HG2	2.16	0.45
1:B:2132:GLY:O	1:B:2136:ARG:HG3	2.16	0.45
1:B:2281:ILE:HG12	1:B:2282:ASP:OD1	2.17	0.45
1:B:3978:GLN:O	1:B:3982:HIS:ND1	2.49	0.45
1:E:45:ARG:HB2	1:E:137:LEU:HB2	1.97	0.45
1:E:2957:PHE:HE1	1:E:2961:GLN:HE21	1.64	0.45
1:E:3727:ASP:HB3	1:E:3731:LYS:HZ1	1.81	0.45
1:E:4679:ARG:NH1	1:E:5017:ARG:HD2	2.31	0.45
1:E:4992:LEU:O	1:E:4996:ILE:HG13	2.16	0.45
1:G:40:GLU:O	1:G:114:SER:OG	2.32	0.45
1:G:913:LEU:HB3	1:G:917:GLU:CB	2.46	0.45
1:G:977:LEU:HD12	1:G:1044:ARG:HD3	1.97	0.45
1:G:1561:VAL:HG23	1:G:1562:ILE:N	2.31	0.45
1:G:2803:GLU:HA	1:G:2806:ARG:HE	1.81	0.45
1:G:4922:PHE:O	1:G:4927:ILE:HG12	2.17	0.45
1:J:360:ALA:HA	1:J:377:ILE:CD1	2.47	0.45
1:J:379:HIS:ND1	1:J:381:GLU:HG2	2.31	0.45
1:J:484:LEU:HD11	1:J:540:PHE:CE2	2.51	0.45
1:J:2803:GLU:HA	1:J:2806:ARG:HE	1.81	0.45
1:J:2883:HIS:CE1	1:J:2907:PRO:HA	2.51	0.45
1:J:4222:VAL:HB	1:J:4950:VAL:HG13	1.98	0.45
1:J:4700:GLN:OE1	1:J:4703:ARG:NH1	2.49	0.45
3:F:75:LYS:HE3	3:F:77:THR:OG1	2.16	0.45
3:K:101:PRO:HD2	3:K:104:TYR:O	2.16	0.45
3:M:40:ALA:HB3	3:M:43:LYS:HB2	1.99	0.45
3:M:101:PRO:HD2	3:M:104:TYR:O	2.17	0.45
1:B:360:ALA:HA	1:B:377:ILE:CD1	2.47	0.45
1:B:2610:LEU:O	1:B:2614:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2624:ARG:HB3	1:B:2674:LEU:HD13	1.98	0.45
1:B:2751:LEU:HD12	1:B:2823:ILE:HD11	1.98	0.45
1:B:2803:GLU:HA	1:B:2806:ARG:HE	1.81	0.45
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.97	0.45
1:B:3199:ALA:O	1:B:3283:ARG:NE	2.49	0.45
1:B:4234:PHE:CE1	1:B:4985:LEU:HG	2.52	0.45
1:B:4673:ARG:HH12	1:B:4698:LYS:HB2	1.81	0.45
1:B:4700:GLN:OE1	1:B:4703:ARG:NH1	2.49	0.45
1:E:2132:GLY:O	1:E:2136:ARG:HG3	2.16	0.45
1:E:2292:GLU:OE1	1:E:2292:GLU:N	2.42	0.45
1:E:4105:GLY:O	1:E:4109:GLN:HG2	2.16	0.45
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.98	0.45
1:G:2906:VAL:HG23	1:G:2911:LEU:HB3	1.97	0.45
1:G:3284:TRP:HZ3	1:G:3304:CYS:HG	1.61	0.45
1:G:4779:LYS:HA	1:G:4782:VAL:HG22	1.98	0.45
1:J:977:LEU:HD12	1:J:1044:ARG:HD3	1.97	0.45
1:J:1708:ARG:O	1:J:1712:TYR:HD1	1.99	0.45
1:J:1814:MET:HA	1:J:1817:GLU:HG2	1.97	0.45
1:J:2624:ARG:HB3	1:J:2674:LEU:HD13	1.98	0.45
1:J:2794:TYR:HE1	1:J:2802:LYS:HE2	1.81	0.45
1:J:3775:ALA:HA	1:J:3778:MET:HG3	1.98	0.45
1:J:4001:MET:SD	1:J:4002:LYS:N	2.90	0.45
1:J:4661:TYR:OH	1:J:4786:ASP:OD2	2.30	0.45
2:H:19:GLY:HA2	2:H:49:ARG:HD3	1.97	0.45
1:B:379:HIS:ND1	1:B:381:GLU:HG2	2.31	0.45
1:B:1043:VAL:O	1:B:1047:LEU:HG	2.17	0.45
1:B:1561:VAL:HG23	1:B:1562:ILE:H	1.81	0.45
1:B:2794:TYR:HE1	1:B:2802:LYS:HE2	1.81	0.45
1:B:4992:LEU:O	1:B:4996:ILE:HG13	2.16	0.45
1:E:1557:THR:O	1:E:1557:THR:HG22	2.16	0.45
1:E:1712:TYR:O	1:E:1716:ILE:HG13	2.16	0.45
1:E:2794:TYR:HE1	1:E:2802:LYS:HE2	1.82	0.45
1:E:3978:GLN:O	1:E:3982:HIS:ND1	2.49	0.45
1:E:4222:VAL:HB	1:E:4950:VAL:HG13	1.98	0.45
1:E:4227:GLU:HA	1:E:4230:LYS:HB2	1.98	0.45
1:E:4813:LEU:O	1:E:4816:ILE:HG12	2.17	0.45
1:G:918:ARG:O	1:G:922:LEU:HG	2.16	0.45
1:G:1043:VAL:O	1:G:1047:LEU:HG	2.17	0.45
1:G:1623:ARG:HA	1:G:1623:ARG:NH1	2.32	0.45
1:G:3527:PRO:HB2	1:G:3573:MET:SD	2.57	0.45
1:G:3752:SER:O	1:G:3756:LYS:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3775:ALA:HA	1:G:3778:MET:HG3	1.98	0.45
1:G:4222:VAL:HB	1:G:4950:VAL:HG13	1.98	0.45
1:J:901:LYS:HD3	1:J:903:LEU:HD11	1.98	0.45
1:J:1043:VAL:O	1:J:1047:LEU:HG	2.17	0.45
1:J:1857:GLU:O	1:J:1861:GLN:HG3	2.16	0.45
1:J:2965:ARG:HA	1:J:2968:ASP:OD2	2.16	0.45
1:J:3592:ILE:HA	1:J:3595:ARG:HE	1.81	0.45
3:F:15:GLY:H	3:F:85:LEU:HB2	1.80	0.45
3:F:101:PRO:HD2	3:F:104:TYR:O	2.17	0.45
1:B:2443:ILE:HD12	1:B:2454:ARG:HH11	1.80	0.45
1:B:2957:PHE:HE1	1:B:2961:GLN:HE21	1.64	0.45
1:B:3457:ASN:OD1	1:B:3458:PHE:N	2.50	0.45
1:B:3648:ARG:HG2	1:B:3652:MET:CE	2.47	0.45
1:E:1619:ARG:HA	1:E:1626:TRP:HA	1.97	0.45
1:E:1623:ARG:NH1	1:E:1623:ARG:HA	2.32	0.45
1:E:1730:MET:O	1:E:1733:GLU:HG2	2.17	0.45
1:E:3511:VAL:HG22	1:E:3516:LYS:NZ	2.31	0.45
1:E:3648:ARG:HG2	1:E:3652:MET:CE	2.47	0.45
1:E:3752:SER:O	1:E:3756:LYS:HG3	2.16	0.45
1:E:3935:TRP:NE1	1:J:80:GLU:OE1	2.33	0.45
1:G:14:LEU:HD21	1:G:204:PRO:HG3	1.98	0.45
1:G:73:LEU:HG	1:G:77:ALA:CB	2.46	0.45
1:G:603:LEU:HA	1:G:606:LEU:HD12	1.99	0.45
1:G:924:MET:HE1	3:M:106:PRO:HD2	1.99	0.45
1:G:996:TRP:NE1	3:M:113:GLU:HB3	2.32	0.45
1:G:1708:ARG:O	1:G:1712:TYR:HD1	1.99	0.45
1:G:2619:LEU:HG	1:G:2623:LEU:HG	1.98	0.45
1:G:2965:ARG:HA	1:G:2968:ASP:OD2	2.16	0.45
1:G:3906:GLN:HB2	1:G:3912:THR:HA	1.99	0.45
1:J:2529:ASP:HB3	1:J:2554:LEU:HD21	1.98	0.45
1:J:4105:GLY:O	1:J:4109:GLN:HG2	2.16	0.45
1:J:4780:PHE:HA	1:J:4783:ILE:HG22	1.99	0.45
3:M:99:ARG:HD2	3:M:114:TYR:CD2	2.52	0.45
1:B:1623:ARG:NH1	1:B:1623:ARG:HA	2.32	0.45
1:B:2211:MET:HA	1:B:2214:VAL:HG12	1.98	0.45
1:B:2355:ARG:HD3	1:B:2358:ILE:HD11	1.98	0.45
1:B:2359:ARG:HH11	1:E:195:PHE:HZ	1.64	0.45
1:B:2588:ARG:HA	1:B:2591:ARG:HE	1.81	0.45
1:B:2619:LEU:HG	1:B:2623:LEU:HG	1.98	0.45
1:B:2702:CYS:O	1:B:2706:ILE:HG13	2.16	0.45
1:B:3181:THR:O	1:B:3185:LYS:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4679:ARG:NH1	1:B:5017:ARG:HD2	2.31	0.45
1:E:426:ARG:HG3	1:E:431:PRO:HD3	1.97	0.45
1:E:2667:THR:HG23	1:E:2672:LEU:HD11	1.99	0.45
1:E:2751:LEU:HD12	1:E:2823:ILE:HD11	1.98	0.45
1:G:850:ASP:OD1	1:G:1025:ARG:NH2	2.44	0.45
1:G:1493:TYR:HB3	1:G:1540:PHE:CD2	2.52	0.45
1:G:1857:GLU:O	1:G:1861:GLN:HG3	2.16	0.45
1:G:2858:GLN:HB2	1:G:2859:PRO:HD3	1.99	0.45
1:G:3699:HIS:HA	1:G:3702:VAL:HG22	1.97	0.45
1:G:4227:GLU:HA	1:G:4230:LYS:HB2	1.98	0.45
1:G:4679:ARG:NH1	1:G:5017:ARG:HD2	2.31	0.45
1:G:4813:LEU:O	1:G:4816:ILE:HG12	2.17	0.45
1:J:426:ARG:HG3	1:J:431:PRO:HD3	1.97	0.45
1:J:917:GLU:OE2	3:K:101:PRO:HB2	2.16	0.45
1:J:920:TYR:CG	3:K:101:PRO:HG3	2.52	0.45
1:J:2132:GLY:O	1:J:2136:ARG:HG3	2.16	0.45
1:J:2751:LEU:HD12	1:J:2823:ILE:HD11	1.98	0.45
1:J:3384:LYS:HG2	1:J:3386:GLU:H	1.82	0.45
1:J:4992:LEU:O	1:J:4996:ILE:HG13	2.16	0.45
1:B:996:TRP:NE1	3:C:113:GLU:HB3	2.32	0.45
1:B:1712:TYR:O	1:B:1716:ILE:HG13	2.16	0.45
1:B:2624:ARG:HH22	1:B:2912:THR:CG2	2.28	0.45
1:B:3245:VAL:HG13	1:B:3248:ARG:H	1.82	0.45
1:B:4927:ILE:HD12	1:G:4936:ILE:HD13	1.97	0.45
1:E:1741:GLU:O	1:E:1745:ILE:HG13	2.15	0.45
1:E:2702:CYS:O	1:E:2706:ILE:HG13	2.16	0.45
1:E:3527:PRO:HB2	1:E:3573:MET:SD	2.57	0.45
1:E:3924:LEU:HD21	1:E:3984:ARG:HH21	1.81	0.45
1:E:4922:PHE:O	1:E:4927:ILE:HG12	2.17	0.45
1:G:844:ARG:HH12	1:G:1071:ARG:HH21	1.63	0.45
1:G:870:ILE:HB	1:G:1051:TYR:OH	2.17	0.45
1:G:1008:SER:HB2	1:G:1017:ARG:NE	2.28	0.45
1:G:1712:TYR:O	1:G:1716:ILE:HG13	2.16	0.45
1:G:2281:ILE:HG12	1:G:2282:ASP:OD1	2.17	0.45
1:G:2667:THR:HG23	1:G:2672:LEU:HD11	1.99	0.45
1:G:2748:PRO:HB2	1:G:2750:LYS:HG2	1.98	0.45
1:G:2794:TYR:HE1	1:G:2802:LYS:HE2	1.82	0.45
1:G:2827:ARG:NE	1:G:2935:TYR:OH	2.27	0.45
1:G:4780:PHE:HA	1:G:4783:ILE:HG22	1.99	0.45
1:J:603:LEU:HA	1:J:606:LEU:HD12	1.99	0.45
1:J:1477:GLY:HA2	1:J:1483:VAL:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1493:TYR:HB3	1:J:1540:PHE:CD2	2.52	0.45
1:J:1578:ALA:HA	1:J:1584:ARG:NH1	2.31	0.45
1:J:3245:VAL:HG13	1:J:3248:ARG:H	1.82	0.45
1:J:3527:PRO:HB2	1:J:3573:MET:SD	2.57	0.45
1:J:3674:ILE:HG13	1:J:3732:SER:HB3	1.99	0.45
1:J:3906:GLN:HB2	1:J:3912:THR:HA	1.99	0.45
1:J:3924:LEU:HD21	1:J:3984:ARG:HH21	1.81	0.45
1:J:4234:PHE:CE1	1:J:4985:LEU:HG	2.52	0.45
1:J:4813:LEU:O	1:J:4816:ILE:HG12	2.17	0.45
1:B:850:ASP:OD1	1:B:1025:ARG:NH2	2.44	0.45
1:B:1477:GLY:HA2	1:B:1483:VAL:HA	1.98	0.45
1:B:1569:GLN:HB2	1:B:1572:ILE:HD12	1.99	0.45
1:B:2499:LYS:O	1:B:2503:VAL:HG12	2.17	0.45
1:B:4227:GLU:HA	1:B:4230:LYS:HB2	1.98	0.45
1:E:363:ASP:HB3	1:E:366:ALA:HB3	1.98	0.45
1:E:603:LEU:HA	1:E:606:LEU:HD12	1.99	0.45
1:E:2502:MET:SD	1:E:2503:VAL:N	2.90	0.45
1:E:3934:TYR:OH	1:E:3998:HIS:HB3	2.17	0.45
1:G:39:ALA:O	1:G:111:HIS:NE2	2.50	0.45
1:G:371:VAL:HG12	1:G:373:LYS:HB2	1.99	0.45
1:G:1561:VAL:HG23	1:G:1562:ILE:H	1.81	0.45
1:G:2499:LYS:O	1:G:2503:VAL:HG12	2.17	0.45
1:G:2707:ALA:HB1	1:G:3009:TYR:HD1	1.81	0.45
1:G:2994:GLU:O	1:G:2998:PHE:HD1	2.00	0.45
1:J:224:HIS:HA	1:J:388:LEU:HD22	1.98	0.45
1:J:913:LEU:HB3	1:J:917:GLU:CB	2.46	0.45
1:J:1620:ALA:HB3	1:J:1624:LEU:HB2	1.99	0.45
1:J:2499:LYS:O	1:J:2503:VAL:HG12	2.17	0.45
1:J:2906:VAL:HG23	1:J:2911:LEU:HB3	1.97	0.45
1:J:3648:ARG:HG2	1:J:3652:MET:CE	2.47	0.45
1:J:4679:ARG:NH1	1:J:5017:ARG:HD2	2.31	0.45
1:B:844:ARG:HH12	1:B:1071:ARG:HH21	1.63	0.45
1:B:870:ILE:HB	1:B:1051:TYR:OH	2.17	0.45
1:B:926:GLY:O	1:B:930:LYS:HG3	2.17	0.45
1:B:1087:ARG:HB3	1:B:1223:PHE:HA	1.98	0.45
1:B:1095:VAL:O	1:B:1145:SER:OG	2.25	0.45
1:B:2858:GLN:HB2	1:B:2859:PRO:HD3	1.99	0.45
1:B:3395:ARG:HG2	1:B:3450:ASN:OD1	2.17	0.45
1:B:3775:ALA:HA	1:B:3778:MET:HG3	1.98	0.45
1:B:4813:LEU:O	1:B:4816:ILE:HG12	2.17	0.45
1:B:4822:THR:O	1:B:4826:ILE:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4922:PHE:O	1:B:4927:ILE:HG12	2.17	0.45
1:E:996:TRP:NE1	3:F:113:GLU:HB3	2.32	0.45
1:E:2281:ILE:HG12	1:E:2282:ASP:OD1	2.17	0.45
1:E:2883:HIS:CE1	1:E:2907:PRO:HA	2.51	0.45
1:E:4780:PHE:HA	1:E:4783:ILE:HG22	1.99	0.45
1:G:379:HIS:ND1	1:G:381:GLU:HG2	2.31	0.45
1:G:1043:VAL:HA	1:G:1046:LEU:HG	1.99	0.45
1:G:1087:ARG:HB3	1:G:1223:PHE:HA	1.98	0.45
1:G:1569:GLN:HB2	1:G:1572:ILE:HD12	1.99	0.45
1:G:2694:GLU:O	1:G:2698:MET:HG3	2.17	0.45
1:G:3648:ARG:HG2	1:G:3652:MET:CE	2.47	0.45
1:G:3674:ILE:HG13	1:G:3732:SER:HB3	1.99	0.45
1:G:4673:ARG:HH12	1:G:4698:LYS:HB2	1.81	0.45
1:G:4772:ASP:OD1	1:G:4772:ASP:N	2.49	0.45
1:J:1154:ASP:HB3	1:J:1223:PHE:CE1	2.52	0.45
1:J:2694:GLU:O	1:J:2698:MET:HG3	2.17	0.45
1:J:3457:ASN:OD1	1:J:3458:PHE:N	2.50	0.45
1:B:603:LEU:HA	1:B:606:LEU:HD12	1.99	0.44
1:B:2502:MET:SD	1:B:2503:VAL:N	2.90	0.44
1:B:2823:ILE:O	1:B:2825:LYS:NZ	2.49	0.44
1:B:3980:LEU:CD1	1:B:4030:LEU:HD21	2.46	0.44
1:E:224:HIS:HA	1:E:388:LEU:HD22	1.98	0.44
1:E:1205:GLY:HA3	1:E:1225:PRO:HB2	1.99	0.44
1:E:1862:ILE:HA	1:E:1865:MET:HE3	1.99	0.44
1:E:3187:ARG:HD3	1:E:3271:GLU:HG3	1.99	0.44
1:E:3457:ASN:OD1	1:E:3458:PHE:N	2.50	0.44
1:G:2957:PHE:HE2	1:G:3034:LYS:HG3	1.82	0.44
1:G:3457:ASN:OD1	1:G:3458:PHE:N	2.50	0.44
1:J:1623:ARG:NH1	1:J:1623:ARG:HA	2.32	0.44
1:J:1712:TYR:O	1:J:1716:ILE:HG13	2.16	0.44
1:J:1730:MET:O	1:J:1733:GLU:HG2	2.17	0.44
1:J:2624:ARG:HH22	1:J:2912:THR:CG2	2.28	0.44
1:J:3187:ARG:HD3	1:J:3271:GLU:HG3	1.99	0.44
1:J:3752:SER:O	1:J:3756:LYS:HG3	2.16	0.44
3:M:105:ASN:ND2	3:M:108:GLY:H	2.14	0.44
1:B:1557:THR:HG22	1:B:1557:THR:O	2.16	0.44
1:B:2994:GLU:O	1:B:2998:PHE:HD1	2.00	0.44
1:B:3510:ILE:O	1:B:3514:LEU:HD23	2.17	0.44
1:B:4001:MET:SD	1:B:4002:LYS:N	2.90	0.44
1:B:4779:LYS:HA	1:B:4782:VAL:HG22	1.98	0.44
1:E:677:ALA:HB1	2:D:40:ARG:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:917:GLU:OE2	3:F:101:PRO:HB2	2.17	0.44
1:E:1154:ASP:HB3	1:E:1223:PHE:CE1	2.52	0.44
1:E:2858:GLN:HB2	1:E:2859:PRO:HD3	1.99	0.44
1:E:3284:TRP:HA	1:E:3287:ARG:HD3	2.00	0.44
1:E:3384:LYS:HG2	1:E:3386:GLU:H	1.82	0.44
1:E:3775:ALA:HA	1:E:3778:MET:HG3	1.98	0.44
1:E:4001:MET:SD	1:E:4002:LYS:N	2.90	0.44
1:G:475:GLN:HB3	1:G:533:ASN:HD22	1.82	0.44
1:G:2978:GLU:OE1	1:G:3053:ARG:NH1	2.51	0.44
1:G:3384:LYS:HG2	1:G:3386:GLU:H	1.82	0.44
1:G:3395:ARG:HG2	1:G:3450:ASN:OD1	2.17	0.44
1:G:3944:GLU:O	1:G:3948:LYS:HG3	2.17	0.44
1:J:1042:ALA:O	1:J:1045:THR:OG1	2.22	0.44
1:J:1043:VAL:HA	1:J:1046:LEU:HG	1.99	0.44
1:J:1431:THR:HG21	1:J:1523:ALA:HB2	1.99	0.44
1:J:2292:GLU:OE1	1:J:2292:GLU:N	2.42	0.44
1:J:2502:MET:SD	1:J:2503:VAL:N	2.90	0.44
1:J:2667:THR:HG23	1:J:2672:LEU:HD11	1.99	0.44
3:C:101:PRO:HD2	3:C:104:TYR:O	2.17	0.44
1:B:40:GLU:O	1:B:114:SER:OG	2.32	0.44
1:B:815:VAL:O	1:B:1007:TYR:OH	2.24	0.44
1:B:1008:SER:HB2	1:B:1017:ARG:NE	2.28	0.44
1:B:1205:GLY:HA3	1:B:1225:PRO:HB2	1.99	0.44
1:B:1620:ALA:HB3	1:B:1624:LEU:HB2	1.99	0.44
1:B:1782:PHE:HB2	2:A:37:ASP:OD2	2.18	0.44
1:B:1808:ARG:NH1	1:B:1853:ILE:O	2.49	0.44
1:B:2667:THR:HG23	1:B:2672:LEU:HD11	1.99	0.44
1:B:2957:PHE:HE2	1:B:3034:LYS:HG3	1.82	0.44
1:B:3046:LEU:HD11	1:B:3064:VAL:HG13	2.00	0.44
1:B:3527:PRO:HB2	1:B:3573:MET:SD	2.57	0.44
1:B:3934:TYR:OH	1:B:3998:HIS:HB3	2.17	0.44
1:E:39:ALA:O	1:E:111:HIS:NE2	2.50	0.44
1:E:206:CYS:HB2	1:E:271:GLY:O	2.17	0.44
1:E:870:ILE:HB	1:E:1051:TYR:OH	2.17	0.44
1:E:1493:TYR:HB3	1:E:1540:PHE:CD2	2.52	0.44
1:E:2619:LEU:HG	1:E:2623:LEU:HG	1.98	0.44
1:E:3354:LEU:HB2	1:E:3415:TYR:HE2	1.81	0.44
1:E:3395:ARG:HG2	1:E:3450:ASN:OD1	2.18	0.44
1:G:2142:TYR:CE2	1:G:2197:LEU:HB2	2.52	0.44
1:G:2336:ARG:HB2	1:G:2435:ARG:HD2	1.99	0.44
1:G:2355:ARG:HD3	1:G:2358:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2595:LEU:HB2	1:G:2600:ARG:NE	2.25	0.44
1:G:4001:MET:SD	1:G:4002:LYS:N	2.90	0.44
1:G:4822:THR:O	1:G:4826:ILE:HG13	2.17	0.44
1:J:926:GLY:O	1:J:930:LYS:HG3	2.18	0.44
1:J:2355:ARG:HD3	1:J:2358:ILE:HD11	1.98	0.44
1:J:2970:SER:HB3	1:J:2998:PHE:CE2	2.51	0.44
1:J:3284:TRP:HA	1:J:3287:ARG:HD3	2.00	0.44
1:J:3510:ILE:O	1:J:3514:LEU:HD23	2.18	0.44
1:B:14:LEU:HD21	1:B:204:PRO:HG3	1.98	0.44
1:B:39:ALA:O	1:B:111:HIS:NE2	2.50	0.44
1:B:467:LYS:HE3	1:B:467:LYS:HB3	1.87	0.44
1:B:1493:TYR:HB3	1:B:1540:PHE:CD2	2.52	0.44
1:B:1730:MET:O	1:B:1733:GLU:HG2	2.17	0.44
1:B:4222:VAL:HB	1:B:4950:VAL:HG13	1.98	0.44
1:E:835:ARG:NH2	1:E:1203:ASN:HD22	2.09	0.44
1:E:1861:GLN:O	1:E:1865:MET:HE2	2.17	0.44
1:E:2367:ALA:HB3	1:E:2426:TYR:CE1	2.53	0.44
1:E:2499:LYS:O	1:E:2503:VAL:HG12	2.17	0.44
1:E:2694:GLU:O	1:E:2698:MET:HG3	2.17	0.44
1:E:3046:LEU:HD11	1:E:3064:VAL:HG13	2.00	0.44
1:E:3206:LEU:HD12	1:E:3280:TYR:CD2	2.53	0.44
1:E:4234:PHE:CE1	1:E:4985:LEU:HG	2.52	0.44
1:G:360:ALA:HA	1:G:377:ILE:CD1	2.46	0.44
1:G:1154:ASP:HB3	1:G:1223:PHE:CE1	2.52	0.44
1:G:2211:MET:HA	1:G:2214:VAL:HG12	1.98	0.44
1:G:3051:ARG:HH22	1:G:3102:ASP:HB2	1.83	0.44
1:G:3245:VAL:HG13	1:G:3248:ARG:H	1.82	0.44
1:J:206:CYS:HB2	1:J:271:GLY:O	2.17	0.44
1:J:2142:TYR:CE2	1:J:2197:LEU:HB2	2.52	0.44
1:J:2281:ILE:HG12	1:J:2282:ASP:OD1	2.17	0.44
1:J:2994:GLU:O	1:J:2998:PHE:HD1	2.00	0.44
1:J:4822:THR:O	1:J:4826:ILE:HG13	2.17	0.44
1:J:4996:ILE:HD13	6:J:5103:CFF:C8	2.48	0.44
3:C:40:ALA:HB3	3:C:43:LYS:HB2	1.99	0.44
3:M:36:TRP:HB2	3:M:48:VAL:HB	1.99	0.44
1:B:206:CYS:HB2	1:B:271:GLY:O	2.17	0.44
1:B:1154:ASP:HB3	1:B:1223:PHE:CE1	2.53	0.44
1:B:1438:ARG:HG3	1:B:1513:ASP:HB3	2.00	0.44
1:E:874:LEU:O	1:E:878:ILE:HG12	2.18	0.44
1:E:1215:ALA:HA	1:E:1219:LEU:HB3	2.00	0.44
1:E:3017:PHE:HB2	1:E:3074:SER:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:206:CYS:HB2	1:G:271:GLY:O	2.17	0.44
1:G:926:GLY:O	1:G:930:LYS:HG3	2.17	0.44
1:G:1620:ALA:HB3	1:G:1624:LEU:HB2	1.99	0.44
1:G:2132:GLY:O	1:G:2136:ARG:HG3	2.16	0.44
1:G:3206:LEU:HD12	1:G:3280:TYR:CD2	2.53	0.44
1:G:3924:LEU:HD21	1:G:3984:ARG:HH21	1.81	0.44
1:G:4242:ILE:HD12	6:G:5103:CFF:H141	1.99	0.44
1:J:2367:ALA:HB3	1:J:2426:TYR:CE1	2.53	0.44
1:J:2858:GLN:HB2	1:J:2859:PRO:HD3	1.99	0.44
3:F:36:TRP:HB2	3:F:48:VAL:HB	1.99	0.44
1:B:475:GLN:HB3	1:B:533:ASN:HD22	1.82	0.44
1:B:920:TYR:CG	3:C:101:PRO:HG3	2.53	0.44
1:B:1814:MET:SD	1:B:1841:VAL:HG13	2.58	0.44
1:B:3089:LYS:O	1:B:3092:LEU:HG	2.18	0.44
1:B:3674:ILE:HG13	1:B:3732:SER:HB3	1.99	0.44
1:E:901:LYS:HD3	1:E:903:LEU:HD11	1.98	0.44
1:E:1431:THR:HG21	1:E:1523:ALA:HB2	1.99	0.44
1:E:2211:MET:HA	1:E:2214:VAL:HG12	1.98	0.44
1:E:2994:GLU:O	1:E:2998:PHE:HD1	2.00	0.44
1:E:3046:LEU:HD23	1:E:3071:LEU:HD12	2.00	0.44
1:E:4247:ILE:O	1:E:4251:ILE:HG13	2.18	0.44
1:E:4822:THR:O	1:E:4826:ILE:HG13	2.17	0.44
1:G:40:GLU:HG2	1:G:42:PHE:H	1.83	0.44
1:G:874:LEU:O	1:G:878:ILE:HG12	2.18	0.44
1:G:2751:LEU:HD12	1:G:2823:ILE:HD11	1.98	0.44
1:G:3923:LEU:HD11	1:G:3962:PHE:CE1	2.53	0.44
1:J:2859:PRO:HB2	1:J:2932:MET:SD	2.58	0.44
1:J:2957:PHE:HE2	1:J:3034:LYS:HG3	1.82	0.44
1:J:3537:LYS:HE2	1:J:3537:LYS:HB3	1.90	0.44
3:K:36:TRP:HB2	3:K:48:VAL:HB	1.99	0.44
3:K:99:ARG:HD2	3:K:114:TYR:CD2	2.53	0.44
3:M:100:VAL:HG22	3:M:105:ASN:HB2	2.00	0.44
1:B:1025:ARG:HG2	1:B:1026:LEU:HD12	2.00	0.44
1:B:2142:TYR:CE2	1:B:2197:LEU:HB2	2.52	0.44
1:B:3384:LYS:HG2	1:B:3386:GLU:H	1.82	0.44
1:E:292:ALA:HB2	1:E:312:THR:HG22	2.00	0.44
1:E:379:HIS:ND1	1:E:381:GLU:HG2	2.31	0.44
1:E:475:GLN:HB3	1:E:533:ASN:HD22	1.82	0.44
1:E:492:ASP:OD1	1:E:546:TRP:NE1	2.44	0.44
1:E:917:GLU:OE1	3:F:101:PRO:HB2	2.17	0.44
1:E:1043:VAL:O	1:E:1047:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1254:HIS:CD2	1:E:1283:LEU:HG	2.53	0.44
1:E:1438:ARG:HG3	1:E:1513:ASP:HB3	2.00	0.44
1:E:2624:ARG:HB3	1:E:2674:LEU:HD13	1.98	0.44
1:E:2874:MET:HG3	1:E:2937:VAL:CG2	2.48	0.44
1:E:3416:VAL:HG23	1:E:3423:TRP:HZ3	1.83	0.44
1:E:3674:ILE:HG13	1:E:3732:SER:HB3	1.99	0.44
1:G:1076:ARG:HG2	1:G:1605:TRP:CZ3	2.53	0.44
1:G:1215:ALA:HA	1:G:1219:LEU:HB3	2.00	0.44
1:G:2859:PRO:HB2	1:G:2932:MET:SD	2.58	0.44
1:G:4234:PHE:CE1	1:G:4985:LEU:HG	2.52	0.44
1:J:1076:ARG:HG2	1:J:1605:TRP:CZ3	2.53	0.44
1:J:2619:LEU:HG	1:J:2623:LEU:HG	1.98	0.44
1:J:2978:GLU:OE1	1:J:3053:ARG:NH1	2.51	0.44
1:J:3046:LEU:HD11	1:J:3064:VAL:HG13	2.00	0.44
1:J:3051:ARG:HH22	1:J:3102:ASP:HB2	1.82	0.44
3:C:99:ARG:HD2	3:C:114:TYR:CD2	2.52	0.44
3:F:99:ARG:HD2	3:F:114:TYR:CD2	2.52	0.44
1:B:1035:ASN:OD1	3:C:109:THR:OG1	2.36	0.44
1:B:2336:ARG:HB2	1:B:2435:ARG:HD2	1.99	0.44
1:B:2694:GLU:O	1:B:2698:MET:HG3	2.17	0.44
1:B:2874:MET:HG3	1:B:2937:VAL:CG2	2.48	0.44
1:B:3046:LEU:HD23	1:B:3071:LEU:HD12	2.00	0.44
1:B:3284:TRP:HA	1:B:3287:ARG:HD3	2.00	0.44
1:B:3354:LEU:HB2	1:B:3415:TYR:HE2	1.81	0.44
1:B:3955:MET:CE	1:B:4015:GLU:HG2	2.48	0.44
1:E:926:GLY:O	1:E:930:LYS:HG3	2.18	0.44
1:E:1786:LEU:HD22	2:D:87:HIS:CD2	2.52	0.44
1:E:2182:ILE:O	1:E:2186:MET:HG3	2.18	0.44
1:E:2957:PHE:HE2	1:E:3034:LYS:HG3	1.82	0.44
1:E:4996:ILE:HD13	6:E:5103:CFF:C8	2.48	0.44
1:G:871:ARG:NH1	1:G:922:LEU:HD22	2.33	0.44
1:G:917:GLU:OE2	3:M:101:PRO:HB2	2.17	0.44
1:G:3187:ARG:HD3	1:G:3271:GLU:HG3	1.99	0.44
1:G:3233:PRO:HD2	1:G:3239:MET:SD	2.58	0.44
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.18	0.44
1:J:516:LYS:HB2	1:J:516:LYS:HE2	1.82	0.44
1:J:870:ILE:HB	1:J:1051:TYR:OH	2.17	0.44
1:J:871:ARG:NH1	1:J:922:LEU:HD22	2.33	0.44
1:J:1438:ARG:HG3	1:J:1513:ASP:HB3	2.00	0.44
1:J:2336:ARG:HB2	1:J:2435:ARG:HD2	1.99	0.44
1:J:2788:HIS:HE1	1:J:2790:MET:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3089:LYS:O	1:J:3092:LEU:HG	2.18	0.44
1:J:3204:ALA:HB2	1:J:3304:CYS:SG	2.58	0.44
1:J:3934:TYR:OH	1:J:3998:HIS:HB3	2.17	0.44
1:J:4003:LEU:HB2	1:J:4013:LEU:HD13	2.00	0.44
3:C:36:TRP:HB2	3:C:48:VAL:HB	1.99	0.44
1:B:118:LEU:HA	1:B:137:LEU:HD23	2.00	0.44
1:B:835:ARG:NH2	1:B:1203:ASN:HD22	2.09	0.44
1:B:2367:ALA:HB3	1:B:2426:TYR:CE1	2.53	0.44
1:B:3104:GLU:O	1:B:3107:VAL:HG22	2.18	0.44
1:B:3206:LEU:HD12	1:B:3280:TYR:CD2	2.53	0.44
1:B:3416:VAL:HG23	1:B:3423:TRP:HZ3	1.83	0.44
1:B:3924:LEU:HD21	1:B:3984:ARG:HH21	1.81	0.44
1:B:3944:GLU:O	1:B:3948:LYS:HG3	2.17	0.44
1:E:913:LEU:HB3	1:E:917:GLU:CB	2.46	0.44
1:E:1515:VAL:HB	1:E:1532:ASN:HA	2.00	0.44
1:E:2978:GLU:OE1	1:E:3053:ARG:NH1	2.51	0.44
1:G:118:LEU:HA	1:G:137:LEU:HD23	2.00	0.44
1:G:195:PHE:HZ	1:J:2359:ARG:HH11	1.65	0.44
1:G:411:TYR:HB2	1:G:486:LEU:HD21	2.00	0.44
1:G:3089:LYS:O	1:G:3092:LEU:HG	2.18	0.44
1:G:3510:ILE:O	1:G:3514:LEU:HD23	2.18	0.44
1:G:4247:ILE:O	1:G:4251:ILE:HG13	2.18	0.44
1:G:4865:LYS:HB3	1:G:4873:ASP:OD2	2.18	0.44
1:J:1569:GLN:HB2	1:J:1572:ILE:HD12	1.99	0.44
1:J:3206:LEU:HD12	1:J:3280:TYR:CD2	2.53	0.44
3:K:40:ALA:HB3	3:K:43:LYS:HB2	1.98	0.44
1:B:1215:ALA:HA	1:B:1219:LEU:HB3	2.00	0.43
1:B:1515:VAL:HB	1:B:1532:ASN:HA	2.00	0.43
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.48	0.43
1:B:4558:ASN:O	1:B:4562:LEU:HG	2.19	0.43
1:E:1025:ARG:HG2	1:E:1026:LEU:HD12	2.00	0.43
1:E:1727:ARG:HD3	1:E:1730:MET:SD	2.58	0.43
1:E:2142:TYR:CE2	1:E:2197:LEU:HB2	2.52	0.43
1:E:2920:ARG:HH11	1:E:2924:GLN:HE21	1.66	0.43
1:E:3051:ARG:HH22	1:E:3102:ASP:HB2	1.83	0.43
1:E:3245:VAL:HG13	1:E:3248:ARG:H	1.82	0.43
1:E:3944:GLU:O	1:E:3948:LYS:HG3	2.18	0.43
1:E:4003:LEU:HB2	1:E:4013:LEU:HD13	2.00	0.43
1:G:1025:ARG:HG2	1:G:1026:LEU:HD12	2.00	0.43
1:G:1035:ASN:OD1	3:M:109:THR:OG1	2.36	0.43
1:G:1431:THR:HG21	1:G:1523:ALA:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1730:MET:O	1:G:1733:GLU:HG2	2.17	0.43
1:G:2502:MET:SD	1:G:2503:VAL:N	2.90	0.43
1:G:2625:ARG:NE	1:G:2625:ARG:HA	2.33	0.43
1:G:2625:ARG:NH1	1:G:2906:VAL:HG12	2.33	0.43
1:G:2626:LEU:HD12	1:G:2626:LEU:HA	1.86	0.43
1:G:2788:HIS:HE1	1:G:2790:MET:HB2	1.83	0.43
1:G:2926:LEU:O	1:G:2930:LEU:HG	2.18	0.43
1:G:3046:LEU:HD23	1:G:3071:LEU:HD12	2.00	0.43
1:G:4652:LEU:O	1:G:4656:LEU:HG	2.18	0.43
1:J:39:ALA:O	1:J:111:HIS:NE2	2.50	0.43
1:J:356:TRP:N	1:J:379:HIS:O	2.38	0.43
1:J:1025:ARG:HG2	1:J:1026:LEU:HD12	2.00	0.43
1:J:1814:MET:SD	1:J:1841:VAL:HG13	2.58	0.43
1:J:2182:ILE:O	1:J:2186:MET:HG3	2.18	0.43
1:J:3944:GLU:O	1:J:3948:LYS:HG3	2.17	0.43
1:J:4865:LYS:HB3	1:J:4873:ASP:OD2	2.18	0.43
1:J:4922:PHE:O	1:J:4927:ILE:HG12	2.17	0.43
1:B:40:GLU:HG2	1:B:42:PHE:H	1.83	0.43
1:B:2625:ARG:HA	1:B:2625:ARG:NE	2.33	0.43
1:B:3051:ARG:HH22	1:B:3102:ASP:HB2	1.82	0.43
1:B:3347:SER:HB2	1:B:3414:ARG:NH2	2.34	0.43
1:B:3906:GLN:HB2	1:B:3912:THR:HA	1.99	0.43
1:B:4003:LEU:HB2	1:B:4013:LEU:HD13	2.00	0.43
1:B:4652:LEU:O	1:B:4656:LEU:HG	2.18	0.43
1:E:1076:ARG:HG2	1:E:1605:TRP:CZ3	2.53	0.43
1:G:1727:ARG:HD3	1:G:1730:MET:SD	2.58	0.43
1:G:3046:LEU:HD11	1:G:3064:VAL:HG13	2.00	0.43
1:G:3892:CYS:SG	1:G:3903:LEU:HD12	2.58	0.43
1:J:40:GLU:HG2	1:J:42:PHE:H	1.83	0.43
1:J:379:HIS:CE1	1:J:381:GLU:HG2	2.54	0.43
1:J:1254:HIS:CD2	1:J:1283:LEU:HG	2.53	0.43
1:J:3018:LEU:HD21	1:J:3150:HIS:NE2	2.33	0.43
1:J:3046:LEU:HD23	1:J:3071:LEU:HD12	2.00	0.43
1:J:3233:PRO:HD2	1:J:3239:MET:SD	2.58	0.43
3:F:47:LEU:O	3:F:62:SER:OG	2.37	0.43
1:B:292:ALA:HB2	1:B:312:THR:HG22	2.00	0.43
1:B:871:ARG:NH1	1:B:922:LEU:HD22	2.33	0.43
1:B:1748:PHE:HD1	1:B:1749:PRO:HD2	1.84	0.43
1:B:2182:ILE:O	1:B:2186:MET:HG3	2.18	0.43
1:B:2978:GLU:OE1	1:B:3053:ARG:NH1	2.51	0.43
1:B:3187:ARG:HD3	1:B:3271:GLU:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4865:LYS:HB3	1:B:4873:ASP:OD2	2.18	0.43
1:B:4953:ASP:O	1:B:4956:THR:OG1	2.28	0.43
1:E:871:ARG:NH1	1:E:922:LEU:HD22	2.33	0.43
1:E:1569:GLN:HB2	1:E:1572:ILE:HD12	1.99	0.43
1:E:1620:ALA:HB3	1:E:1624:LEU:HB2	1.99	0.43
1:E:1778:SER:HB2	1:E:1798:LEU:HB2	2.01	0.43
1:E:1814:MET:SD	1:E:1841:VAL:HG13	2.58	0.43
1:E:2355:ARG:HD3	1:E:2358:ILE:HD11	1.98	0.43
1:E:2449:GLU:HA	1:E:2452:ARG:HD3	2.00	0.43
1:E:2821:TRP:CG	1:E:2874:MET:SD	3.12	0.43
1:E:3906:GLN:HB2	1:E:3912:THR:HA	1.99	0.43
1:G:917:GLU:OE1	3:M:101:PRO:HB2	2.17	0.43
1:G:1254:HIS:CD2	1:G:1283:LEU:HG	2.53	0.43
1:G:1748:PHE:HD1	1:G:1749:PRO:HD2	1.84	0.43
1:G:2755:ILE:HG22	1:G:2810:LYS:NZ	2.34	0.43
1:G:2821:TRP:CG	1:G:2874:MET:SD	3.12	0.43
1:G:2823:ILE:O	1:G:2825:LYS:NZ	2.49	0.43
1:G:2874:MET:HG3	1:G:2937:VAL:CG2	2.48	0.43
1:G:2970:SER:HA	1:G:2973:PHE:CD2	2.53	0.43
1:G:3104:GLU:O	1:G:3107:VAL:HG22	2.18	0.43
1:J:411:TYR:HB2	1:J:486:LEU:HD21	2.00	0.43
1:J:1205:GLY:HA3	1:J:1225:PRO:HB2	2.00	0.43
1:J:3104:GLU:O	1:J:3107:VAL:HG22	2.18	0.43
3:F:52:THR:OG1	3:F:56:SER:HB2	2.19	0.43
3:F:122:GLN:HE21	3:F:124:THR:HG1	1.61	0.43
1:B:874:LEU:O	1:B:878:ILE:HG12	2.18	0.43
1:B:1861:GLN:O	1:B:1865:MET:HE2	2.18	0.43
1:B:2575:ARG:HB3	1:B:2578:MET:HG2	2.01	0.43
1:B:3437:MET:O	1:B:3441:ILE:HG13	2.18	0.43
1:E:379:HIS:CE1	1:E:381:GLU:HG2	2.54	0.43
1:E:3104:GLU:O	1:E:3107:VAL:HG22	2.18	0.43
1:E:3321:ARG:NH1	1:E:3325:ASN:OD1	2.51	0.43
1:E:4892:ARG:NH2	1:J:4918:ILE:HD13	2.34	0.43
1:G:43:GLY:HA2	1:G:443:LEU:HD23	2.00	0.43
1:G:470:SER:O	1:G:474:ARG:HG3	2.18	0.43
1:G:797:HIS:HE1	1:G:1626:TRP:HD1	1.63	0.43
1:G:1205:GLY:HA3	1:G:1225:PRO:HB2	1.99	0.43
1:G:1778:SER:HB2	1:G:1798:LEU:HB2	2.01	0.43
1:G:1782:PHE:HB2	2:H:37:ASP:OD2	2.18	0.43
1:G:1814:MET:SD	1:G:1841:VAL:HG13	2.58	0.43
1:G:2367:ALA:HB3	1:G:2426:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4727:LYS:HD3	1:G:4728:HIS:CE1	2.53	0.43
1:J:874:LEU:HD21	1:J:1051:TYR:OH	2.19	0.43
1:J:1727:ARG:HD3	1:J:1730:MET:SD	2.58	0.43
1:J:4727:LYS:HD3	1:J:4728:HIS:CE1	2.54	0.43
3:C:71:ARG:CB	3:C:78:VAL:HG22	2.49	0.43
3:F:94:TYR:HD1	3:F:120:GLY:HA3	1.84	0.43
3:K:47:LEU:O	3:K:62:SER:OG	2.37	0.43
3:K:94:TYR:HD1	3:K:120:GLY:HA3	1.84	0.43
1:B:43:GLY:HA2	1:B:443:LEU:HD23	2.00	0.43
1:B:247:TYR:CB	1:B:374:LYS:HB2	2.47	0.43
1:B:874:LEU:HD21	1:B:1051:TYR:OH	2.19	0.43
1:B:2821:TRP:CG	1:B:2874:MET:SD	3.12	0.43
1:B:2859:PRO:HB2	1:B:2932:MET:SD	2.58	0.43
1:B:3321:ARG:NH1	1:B:3325:ASN:OD1	2.51	0.43
1:B:3727:ASP:HB3	1:B:3731:LYS:HZ1	1.84	0.43
1:B:4780:PHE:HA	1:B:4783:ILE:HG22	1.99	0.43
1:E:43:GLY:HA2	1:E:443:LEU:HD23	2.00	0.43
1:E:1035:ASN:OD1	3:F:109:THR:OG1	2.36	0.43
1:E:1748:PHE:HD1	1:E:1749:PRO:HD2	1.84	0.43
1:E:1771:LEU:HB3	1:E:2153:MET:HE1	2.01	0.43
1:E:2819:TRP:NE1	1:E:2881:ASN:OD1	2.42	0.43
1:G:3284:TRP:HA	1:G:3287:ARG:HD3	2.00	0.43
1:J:118:LEU:HA	1:J:137:LEU:HD23	2.00	0.43
1:J:475:GLN:HB3	1:J:533:ASN:HD22	1.82	0.43
1:J:2449:GLU:HA	1:J:2452:ARG:HD3	2.00	0.43
1:J:2755:ILE:HG22	1:J:2810:LYS:NZ	2.34	0.43
1:J:2821:TRP:CG	1:J:2874:MET:SD	3.12	0.43
1:J:3347:SER:HB2	1:J:3414:ARG:NH2	2.34	0.43
3:K:64:LYS:N	3:K:64:LYS:HD3	2.34	0.43
1:B:250:GLY:N	1:B:253:CYS:SG	2.92	0.43
1:B:913:LEU:HD13	3:C:104:TYR:OH	2.19	0.43
1:B:1043:VAL:HA	1:B:1046:LEU:HG	1.99	0.43
1:B:1698:LEU:HG	1:B:1712:TYR:CZ	2.54	0.43
1:B:2175:GLU:O	1:B:2179:ILE:HG12	2.19	0.43
1:B:2920:ARG:HH11	1:B:2924:GLN:HE21	1.66	0.43
1:B:4996:ILE:HD13	6:B:5103:CFE:C8	2.48	0.43
1:E:920:TYR:CG	3:F:101:PRO:HG3	2.53	0.43
1:E:1043:VAL:HA	1:E:1046:LEU:HG	1.99	0.43
1:E:1782:PHE:HB2	2:D:37:ASP:OD2	2.18	0.43
1:E:2318:TYR:HA	1:E:2395:PRO:HA	2.01	0.43
1:E:2336:ARG:HB2	1:E:2435:ARG:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3347:SER:HB2	1:E:3414:ARG:NH2	2.34	0.43
1:E:4654:ALA:O	1:E:4658:ILE:HG12	2.19	0.43
1:G:379:HIS:CE1	1:G:381:GLU:HG2	2.54	0.43
1:G:516:LYS:HE2	1:G:516:LYS:HB2	1.82	0.43
1:G:1230:MET:HE3	1:G:1827:ARG:HE	1.83	0.43
1:G:1438:ARG:HG3	1:G:1513:ASP:HB3	2.00	0.43
1:G:2182:ILE:O	1:G:2186:MET:HG3	2.18	0.43
1:J:43:GLY:HA2	1:J:443:LEU:HD23	2.00	0.43
1:J:470:SER:O	1:J:474:ARG:HG3	2.18	0.43
1:J:1130:GLN:HG2	1:J:1138:PRO:HA	2.00	0.43
1:J:1782:PHE:HB2	2:I:37:ASP:OD2	2.18	0.43
1:J:2121:PHE:CG	1:J:3701:LEU:HD13	2.54	0.43
1:J:2970:SER:HA	1:J:2973:PHE:CD2	2.53	0.43
1:J:4242:ILE:HA	1:J:4245:MET:HG2	2.00	0.43
1:J:4796:MET:O	1:J:4800:LEU:HG	2.19	0.43
2:I:41:ASP:OD1	2:I:42:ARG:N	2.52	0.43
3:C:52:THR:OG1	3:C:56:SER:HB2	2.19	0.43
3:C:94:TYR:HD1	3:C:120:GLY:HA3	1.84	0.43
1:B:1727:ARG:HD3	1:B:1730:MET:SD	2.58	0.43
1:B:2755:ILE:HG22	1:B:2810:LYS:NZ	2.34	0.43
1:B:2866:THR:OG1	1:B:2867:LEU:N	2.50	0.43
1:B:4242:ILE:HA	1:B:4245:MET:HG2	2.00	0.43
1:B:4918:ILE:HD13	1:G:4892:ARG:NH2	2.33	0.43
1:E:470:SER:O	1:E:474:ARG:HG3	2.18	0.43
1:E:688:LEU:HD23	1:E:712:TYR:HD1	1.83	0.43
1:E:771:PHE:HB3	1:E:1472:VAL:HG23	2.01	0.43
1:E:1230:MET:HE3	1:E:1827:ARG:HE	1.84	0.43
1:E:3089:LYS:O	1:E:3092:LEU:HG	2.18	0.43
1:E:3510:ILE:O	1:E:3514:LEU:HD23	2.18	0.43
1:E:4698:LYS:HB2	1:E:4698:LYS:HE3	1.86	0.43
1:G:250:GLY:N	1:G:253:CYS:SG	2.92	0.43
1:G:874:LEU:HD21	1:G:1051:TYR:OH	2.19	0.43
1:G:2449:GLU:HA	1:G:2452:ARG:HD3	2.00	0.43
1:G:2754:PHE:HE1	1:G:2933:ASN:ND2	2.17	0.43
1:G:3437:MET:O	1:G:3441:ILE:HG13	2.18	0.43
1:G:3765:TYR:O	1:G:3769:ARG:HG3	2.18	0.43
1:G:3934:TYR:OH	1:G:3998:HIS:HB3	2.18	0.43
1:G:4182:GLU:OE1	1:G:4983:HIS:NE2	2.52	0.43
1:G:4211:LYS:O	1:G:4215:ARG:HG3	2.19	0.43
1:J:292:ALA:HB2	1:J:312:THR:HG22	2.00	0.43
1:J:492:ASP:OD1	1:J:546:TRP:NE1	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1215:ALA:HA	1:J:1219:LEU:HB3	2.00	0.43
1:J:2318:TYR:HA	1:J:2395:PRO:HA	2.01	0.43
1:J:3416:VAL:HG23	1:J:3423:TRP:HZ3	1.83	0.43
1:J:3437:MET:O	1:J:3441:ILE:HG13	2.18	0.43
1:J:4823:LEU:O	1:J:4827:LEU:HG	2.19	0.43
2:D:41:ASP:OD1	2:D:42:ARG:N	2.52	0.43
3:C:64:LYS:HD3	3:C:64:LYS:N	2.34	0.43
1:B:182:LEU:HD11	1:B:189:LEU:HB3	2.01	0.43
1:B:379:HIS:CE1	1:B:381:GLU:HG2	2.54	0.43
1:B:771:PHE:HB3	1:B:1472:VAL:HG23	2.01	0.43
1:B:1076:ARG:HG2	1:B:1605:TRP:CZ3	2.53	0.43
1:B:1254:HIS:CD2	1:B:1283:LEU:HG	2.53	0.43
1:B:1431:THR:HG21	1:B:1523:ALA:HB2	1.99	0.43
1:B:1778:SER:HB2	1:B:1798:LEU:HB2	2.01	0.43
1:B:2735:PHE:CG	1:B:2907:PRO:HG3	2.54	0.43
1:B:2926:LEU:O	1:B:2930:LEU:HG	2.19	0.43
1:B:3233:PRO:HD2	1:B:3239:MET:SD	2.58	0.43
1:B:4247:ILE:O	1:B:4251:ILE:HG13	2.18	0.43
1:E:17:ASP:HB2	1:E:98:HIS:CE1	2.54	0.43
1:E:1965:TYR:CE2	1:E:2031:LEU:HD22	2.54	0.43
1:E:2625:ARG:NH1	1:E:2906:VAL:HG12	2.33	0.43
1:E:2823:ILE:O	1:E:2825:LYS:NZ	2.49	0.43
1:E:3233:PRO:HD2	1:E:3239:MET:SD	2.58	0.43
1:E:4211:LYS:O	1:E:4215:ARG:HG3	2.19	0.43
1:E:4558:ASN:O	1:E:4562:LEU:HG	2.18	0.43
1:E:4823:LEU:O	1:E:4827:LEU:HG	2.19	0.43
1:E:4865:LYS:HB3	1:E:4873:ASP:OD2	2.18	0.43
1:G:2575:ARG:HB3	1:G:2578:MET:HG2	2.01	0.43
1:G:2648:TYR:CE2	1:G:2706:ILE:HG12	2.54	0.43
1:G:4558:ASN:O	1:G:4562:LEU:HG	2.18	0.43
1:G:4930:ALA:HB1	1:J:4937:ILE:HD11	2.01	0.43
1:J:51:PRO:C	1:J:53:SER:H	2.22	0.43
1:J:636:ASN:OD1	1:J:637:LEU:N	2.52	0.43
1:J:2625:ARG:NH1	1:J:2906:VAL:HG12	2.33	0.43
1:J:2874:MET:HG3	1:J:2937:VAL:CG2	2.48	0.43
1:J:3765:TYR:O	1:J:3769:ARG:HG3	2.18	0.43
1:J:4211:LYS:O	1:J:4215:ARG:HG3	2.19	0.43
3:F:71:ARG:CB	3:F:78:VAL:HG22	2.49	0.43
3:M:47:LEU:O	3:M:62:SER:OG	2.37	0.43
1:B:360:ALA:HA	1:B:377:ILE:HD13	2.01	0.43
1:B:411:TYR:HB2	1:B:486:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:917:GLU:HB3	3:C:104:TYR:OH	2.18	0.43
1:B:973:SER:HA	1:B:1044:ARG:NH2	2.28	0.43
1:B:1495:VAL:HB	1:B:1500:PHE:CZ	2.54	0.43
1:B:2001:PRO:O	1:B:2005:GLN:HG3	2.19	0.43
1:B:2648:TYR:CE2	1:B:2706:ILE:HG12	2.54	0.43
1:B:3342:ALA:HA	1:B:3345:ILE:HG22	2.01	0.43
1:E:118:LEU:HA	1:E:137:LEU:HD23	2.00	0.43
1:E:850:ASP:OD1	1:E:1025:ARG:NH2	2.44	0.43
1:E:894:GLY:HA3	1:E:903:LEU:HD22	2.01	0.43
1:E:1039:LEU:HD11	3:F:107:TRP:CZ2	2.54	0.43
1:E:1658:ASP:OD1	1:E:1658:ASP:N	2.52	0.43
1:E:3018:LEU:HD21	1:E:3150:HIS:NE2	2.34	0.43
1:E:3068:LEU:HD23	1:E:3139:VAL:HG21	2.00	0.43
1:E:3069:HIS:O	1:E:3073:ARG:HG3	2.19	0.43
1:E:3281:LEU:HG	1:E:3315:LEU:HD12	2.01	0.43
1:E:3537:LYS:HE2	1:E:3537:LYS:HB3	1.90	0.43
1:G:3416:VAL:HG23	1:G:3423:TRP:HZ3	1.83	0.43
1:G:4822:THR:O	1:G:4825:THR:OG1	2.23	0.43
1:J:182:LEU:HD11	1:J:189:LEU:HB3	2.01	0.43
1:J:471:LEU:HD13	1:J:474:ARG:HH21	1.84	0.43
1:J:548:VAL:HG21	1:J:582:HIS:CD2	2.54	0.43
1:J:688:LEU:HD23	1:J:712:TYR:HD1	1.83	0.43
1:J:917:GLU:OE1	3:K:101:PRO:HB2	2.18	0.43
1:J:1000:ARG:HB3	1:J:1005:TRP:HB2	2.00	0.43
1:J:2754:PHE:HE1	1:J:2933:ASN:ND2	2.17	0.43
1:J:3068:LEU:HD23	1:J:3139:VAL:HG21	2.00	0.43
1:J:3342:ALA:HA	1:J:3345:ILE:HG22	2.01	0.43
1:J:3398:PHE:CD1	1:J:3451:PHE:HD1	2.37	0.43
2:A:29:MET:N	2:A:29:MET:SD	2.92	0.43
3:M:64:LYS:HD3	3:M:64:LYS:N	2.34	0.43
1:B:880:GLU:HA	1:B:967:PRO:HB2	2.01	0.43
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.52	0.43
1:B:1965:TYR:CE2	1:B:2031:LEU:HD22	2.54	0.43
1:B:2596:THR:HB	1:B:2599:GLN:HG3	2.01	0.43
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.19	0.43
1:B:4727:LYS:HD3	1:B:4728:HIS:CE1	2.54	0.43
1:E:40:GLU:HG2	1:E:42:PHE:H	1.83	0.43
1:E:2351:ASN:O	1:E:2355:ARG:HG2	2.19	0.43
1:E:2735:PHE:CG	1:E:2907:PRO:HG3	2.54	0.43
1:E:2788:HIS:HE1	1:E:2790:MET:HB2	1.83	0.43
1:E:2859:PRO:HB2	1:E:2932:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2926:LEU:O	1:E:2930:LEU:HG	2.19	0.43
1:E:3342:ALA:HA	1:E:3345:ILE:HG22	2.01	0.43
1:E:3670:GLU:O	1:E:3673:MET:HB2	2.19	0.43
1:E:3955:MET:CE	1:E:4015:GLU:HG2	2.48	0.43
1:G:51:PRO:C	1:G:53:SER:H	2.22	0.43
1:G:548:VAL:HG21	1:G:582:HIS:CD2	2.54	0.43
1:G:1042:ALA:O	1:G:1045:THR:OG1	2.22	0.43
1:G:2025:GLU:HA	1:G:2028:ARG:HE	1.84	0.43
1:G:2121:PHE:CG	1:G:3701:LEU:HD13	2.54	0.43
1:G:3069:HIS:O	1:G:3073:ARG:HG3	2.19	0.43
1:G:3204:ALA:HB2	1:G:3304:CYS:SG	2.58	0.43
1:G:3724:ALA:O	1:G:3728:ILE:HG13	2.19	0.43
1:G:4054:ASN:O	1:G:4058:ILE:HG13	2.19	0.43
1:G:4823:LEU:O	1:G:4827:LEU:HG	2.19	0.43
1:J:245:VAL:HG23	1:J:376:ALA:HB3	2.00	0.43
1:J:360:ALA:HA	1:J:377:ILE:HD13	2.01	0.43
1:J:1778:SER:HB2	1:J:1798:LEU:HB2	2.01	0.43
1:J:1965:TYR:CE2	1:J:2031:LEU:HD22	2.54	0.43
1:J:2025:GLU:HA	1:J:2028:ARG:HE	1.84	0.43
1:J:2742:THR:HG21	1:J:2815:ALA:N	2.34	0.43
1:J:3395:ARG:HG2	1:J:3450:ASN:OD1	2.17	0.43
1:J:4054:ASN:O	1:J:4058:ILE:HG13	2.19	0.43
1:J:4654:ALA:O	1:J:4658:ILE:HG12	2.19	0.43
1:B:2351:ASN:O	1:B:2355:ARG:HG2	2.19	0.42
1:E:828:GLU:HG3	1:E:840:VAL:HG21	2.01	0.42
1:E:973:SER:HA	1:E:1044:ARG:NH2	2.28	0.42
1:E:1123:VAL:HG13	1:E:1132:TRP:HB3	2.01	0.42
1:E:1130:GLN:HG2	1:E:1138:PRO:HA	2.00	0.42
1:E:2740:VAL:HG12	1:E:2742:THR:HB	2.01	0.42
1:E:2755:ILE:HG22	1:E:2810:LYS:NZ	2.34	0.42
1:E:3204:ALA:HB2	1:E:3304:CYS:SG	2.58	0.42
1:E:3219:TYR:O	1:E:3227:ARG:NH2	2.38	0.42
1:E:4080:TYR:CG	1:E:4096:ALA:HB2	2.54	0.42
1:G:17:ASP:HB2	1:G:98:HIS:CE1	2.54	0.42
1:G:547:VAL:O	1:G:551:LEU:HG	2.20	0.42
1:G:1000:ARG:HB3	1:G:1005:TRP:HB2	2.00	0.42
1:G:1039:LEU:HD11	3:M:107:TRP:CZ2	2.54	0.42
1:G:2318:TYR:HA	1:G:2395:PRO:HA	2.01	0.42
1:G:3018:LEU:HD21	1:G:3150:HIS:NE2	2.34	0.42
1:G:3068:LEU:HD23	1:G:3139:VAL:HG21	2.00	0.42
1:G:4003:LEU:HB2	1:G:4013:LEU:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4160:LEU:HA	1:G:4163:PHE:HD2	1.84	0.42
1:G:4716:TRP:CD1	6:G:5103:CFF:C4	3.02	0.42
1:J:984:LEU:HD23	1:J:987:ARG:NH2	2.34	0.42
1:J:1748:PHE:HD1	1:J:1749:PRO:HD2	1.84	0.42
1:J:2625:ARG:HA	1:J:2625:ARG:NE	2.33	0.42
1:J:3670:GLU:O	1:J:3673:MET:HB2	2.19	0.42
1:J:4247:ILE:O	1:J:4251:ILE:HG13	2.18	0.42
1:J:4652:LEU:O	1:J:4656:LEU:HG	2.18	0.42
1:B:688:LEU:HD23	1:B:712:TYR:HD1	1.83	0.42
1:B:2449:GLU:HA	1:B:2452:ARG:HD3	2.00	0.42
1:B:2625:ARG:NH1	1:B:2906:VAL:HG12	2.33	0.42
1:B:2788:HIS:HE1	1:B:2790:MET:HB2	1.83	0.42
1:B:3204:ALA:HB2	1:B:3304:CYS:SG	2.58	0.42
1:B:3281:LEU:HG	1:B:3315:LEU:HD12	2.01	0.42
1:B:3729:MET:HE2	1:B:3800:LEU:HD11	2.01	0.42
1:B:4772:ASP:N	1:B:4772:ASP:OD1	2.49	0.42
1:E:51:PRO:C	1:E:53:SER:H	2.22	0.42
1:E:2175:GLU:O	1:E:2179:ILE:HG12	2.19	0.42
1:E:2648:TYR:CE2	1:E:2706:ILE:HG12	2.54	0.42
1:E:2821:TRP:CD1	1:E:2874:MET:SD	3.13	0.42
1:E:3729:MET:HE2	1:E:3800:LEU:HD11	2.01	0.42
1:E:4796:MET:O	1:E:4800:LEU:HG	2.19	0.42
1:G:1495:VAL:HB	1:G:1500:PHE:CZ	2.54	0.42
1:G:1515:VAL:HB	1:G:1532:ASN:HA	2.00	0.42
1:G:2742:THR:HG21	1:G:2815:ALA:N	2.34	0.42
1:G:3164:SER:O	1:G:3168:THR:HG23	2.19	0.42
1:G:3670:GLU:O	1:G:3673:MET:HB2	2.19	0.42
1:G:3955:MET:CE	1:G:4015:GLU:HG2	2.48	0.42
1:J:17:ASP:HB2	1:J:98:HIS:CE1	2.54	0.42
1:J:828:GLU:HG3	1:J:840:VAL:HG21	2.01	0.42
1:J:2821:TRP:CD1	1:J:2874:MET:SD	3.12	0.42
1:J:2920:ARG:HH11	1:J:2924:GLN:HE21	1.66	0.42
1:J:2926:LEU:O	1:J:2930:LEU:HG	2.19	0.42
1:J:3156:VAL:HG23	1:J:3157:ILE:HG13	2.01	0.42
1:J:4546:VAL:HA	1:J:4549:VAL:HG22	2.01	0.42
2:A:41:ASP:OD1	2:A:42:ARG:N	2.52	0.42
2:H:41:ASP:OD1	2:H:42:ARG:N	2.52	0.42
1:B:470:SER:O	1:B:474:ARG:HG3	2.18	0.42
1:B:548:VAL:HG21	1:B:582:HIS:CD2	2.54	0.42
1:B:636:ASN:OD1	1:B:637:LEU:N	2.52	0.42
1:B:2754:PHE:HE1	1:B:2933:ASN:ND2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2958:GLY:O	1:B:2962:GLN:HG2	2.20	0.42
1:B:3724:ALA:O	1:B:3728:ILE:HG13	2.19	0.42
1:B:3765:TYR:O	1:B:3769:ARG:HG3	2.18	0.42
1:E:471:LEU:HD13	1:E:474:ARG:HH21	1.84	0.42
1:E:1128:ARG:HE	1:E:1130:GLN:NE2	2.17	0.42
1:E:1786:LEU:HD22	2:D:87:HIS:HD2	1.84	0.42
1:E:2754:PHE:HE1	1:E:2933:ASN:ND2	2.17	0.42
1:E:3164:SER:O	1:E:3168:THR:HG23	2.20	0.42
1:E:3437:MET:O	1:E:3441:ILE:HG13	2.18	0.42
1:E:3765:TYR:O	1:E:3769:ARG:HG3	2.18	0.42
1:E:3945:GLU:O	1:E:3949:ARG:HG3	2.19	0.42
1:E:4242:ILE:HA	1:E:4245:MET:HG2	2.00	0.42
1:E:4546:VAL:HA	1:E:4549:VAL:HG22	2.01	0.42
1:E:4727:LYS:HD3	1:E:4728:HIS:CE1	2.53	0.42
1:G:471:LEU:HD13	1:G:474:ARG:HH21	1.84	0.42
1:G:920:TYR:CG	3:M:101:PRO:HG3	2.53	0.42
1:G:984:LEU:HD23	1:G:987:ARG:NH2	2.34	0.42
1:G:1808:ARG:NH1	1:G:1853:ILE:O	2.49	0.42
1:G:1965:TYR:CE2	1:G:2031:LEU:HD22	2.54	0.42
1:G:3321:ARG:NH1	1:G:3325:ASN:OD1	2.51	0.42
1:G:3342:ALA:HA	1:G:3345:ILE:HG22	2.01	0.42
1:J:547:VAL:O	1:J:551:LEU:HG	2.20	0.42
1:J:2648:TYR:CE2	1:J:2706:ILE:HG12	2.54	0.42
1:J:3144:PHE:CD2	1:J:3197:LEU:HB3	2.55	0.42
1:J:3281:LEU:HG	1:J:3315:LEU:HD12	2.01	0.42
1:J:3321:ARG:NH1	1:J:3325:ASN:OD1	2.51	0.42
1:J:3955:MET:CE	1:J:4015:GLU:HG2	2.48	0.42
3:C:47:LEU:O	3:C:62:SER:OG	2.37	0.42
3:K:52:THR:OG1	3:K:56:SER:HB2	2.19	0.42
1:B:17:ASP:HB2	1:B:98:HIS:CE1	2.54	0.42
1:B:822:ARG:NH2	1:B:824:GLU:OE1	2.52	0.42
1:B:917:GLU:OE1	3:C:101:PRO:HB2	2.19	0.42
1:B:1247:PRO:HA	1:B:1598:GLN:HA	2.01	0.42
1:B:2121:PHE:CG	1:B:3701:LEU:HD13	2.54	0.42
1:B:2742:THR:HG21	1:B:2815:ALA:N	2.34	0.42
1:B:3068:LEU:HD23	1:B:3139:VAL:HG21	2.00	0.42
1:B:4160:LEU:HA	1:B:4163:PHE:HD2	1.84	0.42
1:E:46:LEU:HA	1:E:136:GLY:CA	2.49	0.42
1:E:548:VAL:HG21	1:E:582:HIS:CD2	2.54	0.42
1:E:2121:PHE:CG	1:E:3701:LEU:HD13	2.54	0.42
1:E:2742:THR:HG21	1:E:2815:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2970:SER:HA	1:E:2973:PHE:CD2	2.53	0.42
1:E:4652:LEU:O	1:E:4656:LEU:HG	2.18	0.42
1:G:636:ASN:OD1	1:G:637:LEU:N	2.52	0.42
1:G:913:LEU:HD13	3:M:104:TYR:OH	2.19	0.42
1:G:1099:GLU:O	1:G:1100:MET:HE2	2.20	0.42
1:G:2351:ASN:O	1:G:2355:ARG:HG2	2.19	0.42
1:G:2474:LEU:HD23	1:G:2499:LYS:NZ	2.35	0.42
1:G:2821:TRP:CD1	1:G:2874:MET:SD	3.12	0.42
1:G:4541:TRP:O	1:G:4544:LEU:HG	2.20	0.42
1:G:4796:MET:O	1:G:4800:LEU:HG	2.19	0.42
1:J:850:ASP:OD1	1:J:1025:ARG:NH2	2.44	0.42
1:J:1123:VAL:HG13	1:J:1132:TRP:HB3	2.01	0.42
1:J:1786:LEU:HD22	2:I:87:HIS:CD2	2.55	0.42
1:J:1862:ILE:HA	1:J:1865:MET:HE3	2.01	0.42
1:J:2596:THR:HB	1:J:2599:GLN:HG3	2.01	0.42
1:J:2740:VAL:HG12	1:J:2742:THR:HB	2.01	0.42
1:J:3287:ARG:N	1:J:3287:ARG:HD2	2.35	0.42
1:J:3378:GLN:O	1:J:3381:LEU:HG	2.20	0.42
1:J:3963:ASN:O	1:J:3967:GLU:HG2	2.19	0.42
2:H:29:MET:SD	2:H:29:MET:N	2.92	0.42
3:M:52:THR:OG1	3:M:56:SER:HB2	2.19	0.42
3:M:71:ARG:CB	3:M:78:VAL:HG22	2.49	0.42
1:B:46:LEU:HA	1:B:136:GLY:CA	2.49	0.42
1:B:245:VAL:HG23	1:B:376:ALA:HB3	2.00	0.42
1:B:914:PRO:HB2	1:B:916:PRO:HD2	2.02	0.42
1:B:1126:GLY:HA3	1:B:1143:TRP:CZ3	2.55	0.42
1:B:2474:LEU:HD23	1:B:2499:LYS:NZ	2.35	0.42
1:B:2821:TRP:CD1	1:B:2874:MET:SD	3.13	0.42
1:B:3018:LEU:HD21	1:B:3150:HIS:NE2	2.34	0.42
1:B:3069:HIS:O	1:B:3073:ARG:HG3	2.19	0.42
1:B:3164:SER:O	1:B:3168:THR:HG23	2.19	0.42
1:B:3287:ARG:N	1:B:3287:ARG:HD2	2.35	0.42
1:E:914:PRO:HB2	1:E:916:PRO:HD2	2.02	0.42
1:E:1099:GLU:O	1:E:1100:MET:HE2	2.20	0.42
1:E:2575:ARG:HB3	1:E:2578:MET:HG2	2.01	0.42
1:E:3287:ARG:N	1:E:3287:ARG:HD2	2.35	0.42
1:G:16:THR:O	1:G:98:HIS:ND1	2.53	0.42
1:G:822:ARG:NH2	1:G:824:GLU:OE1	2.52	0.42
1:G:914:PRO:HB2	1:G:916:PRO:HD2	2.02	0.42
1:G:1100:MET:HB2	1:G:1143:TRP:CZ2	2.55	0.42
1:G:2001:PRO:O	1:G:2005:GLN:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2691:TYR:HA	1:G:2696:TYR:CE1	2.55	0.42
1:G:3144:PHE:CD2	1:G:3197:LEU:HB3	2.55	0.42
1:G:3287:ARG:HD2	1:G:3287:ARG:N	2.35	0.42
1:G:3347:SER:HB2	1:G:3414:ARG:NH2	2.34	0.42
1:G:4080:TYR:CG	1:G:4096:ALA:HB2	2.54	0.42
1:J:248:GLU:HG2	1:J:372:LEU:HB2	2.01	0.42
1:J:250:GLY:N	1:J:253:CYS:SG	2.92	0.42
1:J:914:PRO:HB2	1:J:916:PRO:HD2	2.02	0.42
1:J:1128:ARG:HE	1:J:1130:GLN:NE2	2.18	0.42
1:J:1515:VAL:HB	1:J:1532:ASN:HA	2.00	0.42
1:J:1526:LEU:HD23	1:J:1526:LEU:H	1.84	0.42
1:J:2866:THR:OG1	1:J:2867:LEU:N	2.50	0.42
1:J:2879:ALA:HA	1:J:2882:TYR:HD2	1.84	0.42
1:J:3321:ARG:O	1:J:3324:VAL:HG12	2.20	0.42
1:J:3352:GLU:OE1	1:J:3352:GLU:N	2.49	0.42
2:D:29:MET:N	2:D:29:MET:SD	2.92	0.42
1:B:248:GLU:HG2	1:B:372:LEU:HB2	2.01	0.42
1:B:797:HIS:HE1	1:B:1626:TRP:CD1	2.37	0.42
1:B:1130:GLN:HG2	1:B:1138:PRO:HA	2.00	0.42
1:B:1786:LEU:HD22	2:A:87:HIS:CD2	2.55	0.42
1:B:2883:HIS:CE1	1:B:2907:PRO:HA	2.52	0.42
1:B:2970:SER:HA	1:B:2973:PHE:CD2	2.53	0.42
1:B:3670:GLU:O	1:B:3673:MET:HB2	2.19	0.42
1:B:3945:GLU:O	1:B:3949:ARG:HG3	2.19	0.42
1:B:4054:ASN:O	1:B:4058:ILE:HG13	2.19	0.42
1:B:4064:MET:HA	1:B:4103:PHE:HE1	1.85	0.42
1:B:4546:VAL:HA	1:B:4549:VAL:HG22	2.01	0.42
1:B:4937:ILE:HD11	1:E:4930:ALA:HB1	2.02	0.42
1:E:36:CYS:HB3	1:E:52:THR:HG21	2.02	0.42
1:E:182:LEU:HD11	1:E:189:LEU:HB3	2.01	0.42
1:E:411:TYR:HB2	1:E:486:LEU:HD21	2.00	0.42
1:E:468:LEU:O	1:E:472:ARG:HG2	2.20	0.42
1:E:880:GLU:HA	1:E:967:PRO:HB2	2.01	0.42
1:E:880:GLU:O	1:E:884:LEU:HG	2.20	0.42
1:E:917:GLU:HB3	3:F:104:TYR:OH	2.18	0.42
1:E:1495:VAL:HB	1:E:1500:PHE:CZ	2.54	0.42
1:E:3724:ALA:O	1:E:3728:ILE:HG13	2.19	0.42
1:E:4064:MET:HA	1:E:4103:PHE:HE1	1.85	0.42
1:G:292:ALA:HB2	1:G:312:THR:HG22	2.00	0.42
1:G:474:ARG:O	1:G:478:PHE:HD1	2.03	0.42
1:G:1526:LEU:H	1:G:1526:LEU:HD23	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1698:LEU:HG	1:G:1712:TYR:CZ	2.54	0.42
1:G:1786:LEU:HD22	2:H:87:HIS:CD2	2.55	0.42
1:G:2175:GLU:O	1:G:2179:ILE:HG12	2.19	0.42
1:G:2735:PHE:CG	1:G:2907:PRO:HG3	2.54	0.42
1:G:2740:VAL:HG12	1:G:2742:THR:HB	2.01	0.42
1:G:3038:MET:O	1:G:3042:LEU:HD23	2.20	0.42
1:G:3923:LEU:HD22	1:G:3965:LEU:HD11	2.01	0.42
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.20	0.42
1:G:4088:ILE:HG21	1:G:4125:PHE:HB3	2.01	0.42
1:G:4242:ILE:HA	1:G:4245:MET:HG2	2.00	0.42
1:J:1698:LEU:HG	1:J:1712:TYR:CZ	2.54	0.42
1:J:2823:ILE:O	1:J:2825:LYS:NZ	2.49	0.42
1:J:4558:ASN:O	1:J:4562:LEU:HG	2.18	0.42
1:J:4658:ILE:CD1	1:J:4792:LEU:HB3	2.50	0.42
1:J:4859:PHE:HE1	1:J:4909:TYR:HB3	1.85	0.42
2:I:29:MET:N	2:I:29:MET:SD	2.92	0.42
3:F:64:LYS:N	3:F:64:LYS:HD3	2.34	0.42
3:M:94:TYR:HD1	3:M:120:GLY:HA3	1.83	0.42
1:B:36:CYS:HB3	1:B:52:THR:HG21	2.02	0.42
1:B:1123:VAL:HG13	1:B:1132:TRP:HB3	2.01	0.42
1:B:2318:TYR:HA	1:B:2395:PRO:HA	2.01	0.42
1:B:2791:LEU:HD12	1:B:2791:LEU:HA	1.93	0.42
1:B:2914:LYS:HD2	1:B:2915:GLU:N	2.35	0.42
1:B:3144:PHE:CD2	1:B:3197:LEU:HB3	2.55	0.42
1:B:4003:LEU:HB3	1:B:4013:LEU:HB2	2.02	0.42
1:B:4013:LEU:O	1:B:4017:LEU:HG	2.20	0.42
1:E:372:LEU:H	1:E:372:LEU:HD22	1.84	0.42
1:E:547:VAL:O	1:E:551:LEU:HG	2.19	0.42
1:E:822:ARG:NH2	1:E:824:GLU:OE1	2.52	0.42
1:E:874:LEU:HD21	1:E:1051:TYR:OH	2.19	0.42
1:E:984:LEU:HD23	1:E:987:ARG:NH2	2.34	0.42
1:E:1932:PRO:O	1:E:1936:LYS:HG3	2.20	0.42
1:E:2025:GLU:HA	1:E:2028:ARG:HE	1.84	0.42
1:E:3321:ARG:O	1:E:3324:VAL:HG12	2.20	0.42
1:E:3378:GLN:O	1:E:3381:LEU:HG	2.19	0.42
1:E:3521:GLY:HA2	1:E:3524:MET:HG2	2.02	0.42
1:E:4003:LEU:HB3	1:E:4013:LEU:HB2	2.02	0.42
1:E:4054:ASN:O	1:E:4058:ILE:HG13	2.19	0.42
1:E:4658:ILE:CD1	1:E:4792:LEU:HB3	2.50	0.42
1:G:182:LEU:HD11	1:G:189:LEU:HB3	2.01	0.42
1:G:1130:GLN:HG2	1:G:1138:PRO:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2920:ARG:HH11	1:G:2924:GLN:HE21	1.66	0.42
1:G:4654:ALA:O	1:G:4658:ILE:HG12	2.19	0.42
1:J:468:LEU:O	1:J:472:ARG:HG2	2.20	0.42
1:J:771:PHE:HB3	1:J:1472:VAL:HG23	2.01	0.42
1:J:822:ARG:NH2	1:J:824:GLU:OE1	2.52	0.42
1:J:894:GLY:HA3	1:J:903:LEU:HD22	2.01	0.42
1:J:1088:TRP:HA	1:J:1224:GLU:O	2.20	0.42
1:J:1495:VAL:HB	1:J:1500:PHE:CZ	2.54	0.42
1:J:2175:GLU:O	1:J:2179:ILE:HG12	2.19	0.42
1:J:3038:MET:O	1:J:3042:LEU:HD23	2.20	0.42
1:J:3069:HIS:O	1:J:3073:ARG:HG3	2.19	0.42
1:J:3164:SER:O	1:J:3168:THR:HG23	2.19	0.42
3:F:100:VAL:HG22	3:F:105:ASN:HB2	2.00	0.42
1:B:51:PRO:C	1:B:53:SER:H	2.22	0.42
1:B:371:VAL:HG12	1:B:373:LYS:HB2	2.01	0.42
1:B:828:GLU:HG3	1:B:840:VAL:HG21	2.01	0.42
1:B:1000:ARG:HB3	1:B:1005:TRP:HB2	2.01	0.42
1:B:2158:CYS:O	1:B:2162:ILE:HG13	2.20	0.42
1:B:2626:LEU:CG	1:B:2640:PRO:HB3	2.50	0.42
1:B:2691:TYR:HA	1:B:2696:TYR:CE1	2.55	0.42
1:B:3021:PRO:HD3	1:B:3036:LYS:NZ	2.34	0.42
1:B:3450:ASN:HA	1:B:3453:ARG:HG2	2.02	0.42
1:B:3521:GLY:HA2	1:B:3524:MET:HG2	2.02	0.42
1:B:4080:TYR:CG	1:B:4096:ALA:HB2	2.54	0.42
1:B:4188:ARG:HD2	1:B:4191:GLU:HG3	2.02	0.42
1:B:4211:LYS:O	1:B:4215:ARG:HG3	2.19	0.42
1:B:4796:MET:O	1:B:4800:LEU:HG	2.19	0.42
1:B:4859:PHE:HE1	1:B:4909:TYR:HB3	1.85	0.42
1:E:516:LYS:HE2	1:E:516:LYS:HB2	1.82	0.42
1:E:1698:LEU:HG	1:E:1712:TYR:CZ	2.54	0.42
1:E:2625:ARG:HA	1:E:2625:ARG:NE	2.34	0.42
1:E:3156:VAL:HG23	1:E:3157:ILE:HG13	2.01	0.42
1:E:4124:ASN:OD1	1:E:4125:PHE:N	2.53	0.42
1:G:2158:CYS:O	1:G:2162:ILE:HG13	2.20	0.42
1:G:2605:ASP:HA	1:G:2608:MET:HG2	2.02	0.42
1:G:2819:TRP:NE1	1:G:2881:ASN:OD1	2.42	0.42
1:G:2914:LYS:HD2	1:G:2915:GLU:N	2.35	0.42
1:G:4802:GLY:HA2	1:G:4808:PHE:HB2	2.02	0.42
1:J:247:TYR:CB	1:J:374:LYS:HB2	2.47	0.42
1:J:874:LEU:O	1:J:878:ILE:HG12	2.18	0.42
1:J:880:GLU:O	1:J:884:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2001:PRO:O	1:J:2005:GLN:HG3	2.19	0.42
1:J:2351:ASN:O	1:J:2355:ARG:HG2	2.19	0.42
1:J:2626:LEU:CG	1:J:2640:PRO:HB3	2.50	0.42
1:J:2735:PHE:CG	1:J:2907:PRO:HG3	2.54	0.42
1:J:3219:TYR:O	1:J:3227:ARG:NH2	2.38	0.42
1:J:4080:TYR:CG	1:J:4096:ALA:HB2	2.54	0.42
3:C:4:LEU:HD22	3:C:118:GLY:HA3	2.01	0.42
1:B:471:LEU:HD13	1:B:474:ARG:HH21	1.84	0.42
1:B:1037:ASP:N	1:B:1037:ASP:OD1	2.53	0.42
1:B:1666:THR:HG22	1:B:1670:TYR:CE2	2.55	0.42
1:B:1830:VAL:HB	1:B:1837:GLN:HG3	2.02	0.42
1:B:2025:GLU:HA	1:B:2028:ARG:HE	1.84	0.42
1:B:3321:ARG:O	1:B:3324:VAL:HG12	2.20	0.42
1:E:587:ILE:HD12	1:E:624:ASN:HB3	2.02	0.42
1:E:1000:ARG:HB3	1:E:1005:TRP:HB2	2.00	0.42
1:E:1037:ASP:OD1	1:E:1037:ASP:N	2.53	0.42
1:E:1088:TRP:HA	1:E:1224:GLU:O	2.20	0.42
1:E:2452:ARG:O	1:E:2456:ILE:HG13	2.20	0.42
1:E:2806:ARG:NH1	1:E:2810:LYS:HG3	2.35	0.42
1:E:3062:PRO:HA	1:E:3065:VAL:HG22	2.02	0.42
1:E:4088:ILE:HG21	1:E:4125:PHE:HB3	2.01	0.42
1:G:1088:TRP:HA	1:G:1224:GLU:O	2.20	0.42
1:G:3156:VAL:HG23	1:G:3157:ILE:HG13	2.01	0.42
1:G:3349:ALA:HB1	1:G:3353:LEU:HD12	2.02	0.42
1:G:3450:ASN:HA	1:G:3453:ARG:HG2	2.02	0.42
1:G:3521:GLY:HA2	1:G:3524:MET:HG2	2.02	0.42
1:J:453:GLU:HA	1:J:454:PRO:HD3	1.96	0.42
1:J:1099:GLU:O	1:J:1100:MET:HE2	2.20	0.42
1:J:1100:MET:HB2	1:J:1143:TRP:CZ2	2.55	0.42
1:J:2158:CYS:O	1:J:2162:ILE:HG13	2.20	0.42
1:J:2605:ASP:HA	1:J:2608:MET:HG2	2.02	0.42
1:J:2759:ALA:HB1	1:J:2806:ARG:HA	2.02	0.42
1:J:3517:MET:SD	1:J:3517:MET:N	2.93	0.42
1:J:4003:LEU:HB3	1:J:4013:LEU:HB2	2.02	0.42
1:J:4182:GLU:OE1	1:J:4983:HIS:NE2	2.52	0.42
1:J:4691:GLN:HB2	1:J:4703:ARG:HH22	1.85	0.42
3:K:122:GLN:HE21	3:K:124:THR:HG1	1.61	0.42
1:B:1128:ARG:HE	1:B:1130:GLN:NE2	2.18	0.42
1:B:1230:MET:HE3	1:B:1827:ARG:HE	1.85	0.42
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.20	0.42
1:B:3349:ALA:HB1	1:B:3353:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:16:THR:O	1:E:98:HIS:ND1	2.53	0.42
1:E:467:LYS:HE3	1:E:467:LYS:HB3	1.87	0.42
1:E:1126:GLY:HA3	1:E:1143:TRP:CZ3	2.55	0.42
1:E:1247:PRO:HA	1:E:1598:GLN:HA	2.01	0.42
1:E:1808:ARG:NH1	1:E:1853:ILE:O	2.49	0.42
1:E:1830:VAL:HB	1:E:1837:GLN:HG3	2.02	0.42
1:E:2862:LEU:HD23	1:E:2864:GLY:H	1.85	0.42
1:E:3250:MET:HA	1:E:3253:ILE:HG22	2.02	0.42
1:E:3962:PHE:O	1:E:3966:THR:HG23	2.20	0.42
1:E:4541:TRP:O	1:E:4544:LEU:HG	2.20	0.42
1:G:36:CYS:HB3	1:G:52:THR:HG21	2.02	0.42
1:G:48:PHE:HD2	1:G:50:GLU:OE1	2.03	0.42
1:G:688:LEU:HD23	1:G:712:TYR:HD1	1.83	0.42
1:G:984:LEU:HD23	1:G:987:ARG:HH21	1.85	0.42
1:G:3281:LEU:HG	1:G:3315:LEU:HD12	2.01	0.42
1:G:3321:ARG:O	1:G:3324:VAL:HG12	2.20	0.42
1:G:3432:GLU:O	1:G:3435:PHE:HB3	2.20	0.42
1:G:3727:ASP:HB3	1:G:3731:LYS:HZ1	1.85	0.42
1:G:4003:LEU:HB3	1:G:4013:LEU:HB2	2.02	0.42
1:G:4064:MET:HA	1:G:4103:PHE:HE1	1.85	0.42
1:J:371:VAL:HG12	1:J:373:LYS:HB2	2.01	0.42
1:J:1666:THR:HG22	1:J:1670:TYR:CE2	2.55	0.42
1:J:2121:PHE:O	1:J:3725:TYR:OH	2.35	0.42
1:J:2452:ARG:O	1:J:2456:ILE:HG13	2.20	0.42
1:J:2575:ARG:HB3	1:J:2578:MET:HG2	2.01	0.42
1:J:3670:GLU:OE1	1:J:3732:SER:HB3	2.20	0.42
1:J:3945:GLU:O	1:J:3949:ARG:HG3	2.19	0.42
1:J:4013:LEU:O	1:J:4017:LEU:HG	2.20	0.42
1:J:4064:MET:HA	1:J:4103:PHE:HE1	1.85	0.42
1:J:4124:ASN:OD1	1:J:4125:PHE:N	2.53	0.42
1:J:4160:LEU:HA	1:J:4163:PHE:HD2	1.84	0.42
1:B:880:GLU:O	1:B:884:LEU:HG	2.19	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HD22	2.01	0.41
1:B:2230:THR:HG22	1:B:2234:ARG:HH11	1.85	0.41
1:B:2605:ASP:HA	1:B:2608:MET:HG2	2.02	0.41
1:B:2764:GLU:HA	1:B:2855:TYR:CE2	2.55	0.41
1:B:3352:GLU:OE1	1:B:3352:GLU:N	2.49	0.41
1:B:3378:GLN:O	1:B:3381:LEU:HG	2.20	0.41
1:B:4541:TRP:O	1:B:4544:LEU:HG	2.20	0.41
1:E:250:GLY:N	1:E:253:CYS:SG	2.92	0.41
1:E:541:SER:HA	1:E:574:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:913:LEU:HD13	3:F:104:TYR:OH	2.20	0.41
1:E:2691:TYR:HA	1:E:2696:TYR:CE1	2.55	0.41
1:E:2764:GLU:HA	1:E:2855:TYR:CE2	2.55	0.41
1:E:2823:ILE:HA	1:E:2936:ALA:O	2.20	0.41
1:E:2866:THR:OG1	1:E:2867:LEU:N	2.50	0.41
1:E:3398:PHE:CD1	1:E:3451:PHE:HD1	2.37	0.41
1:E:4859:PHE:HE1	1:E:4909:TYR:HB3	1.85	0.41
1:G:363:ASP:HB3	1:G:366:ALA:HB3	2.02	0.41
1:G:880:GLU:HA	1:G:967:PRO:HB2	2.01	0.41
1:G:1154:ASP:OD1	1:G:1159:THR:OG1	2.22	0.41
1:G:1666:THR:HG22	1:G:1670:TYR:CE2	2.55	0.41
1:G:2487:GLN:HB3	1:G:2546:MET:HE1	2.02	0.41
1:G:2598:ALA:O	1:G:2602:VAL:HG23	2.20	0.41
1:G:3378:GLN:O	1:G:3381:LEU:HG	2.20	0.41
1:G:4546:VAL:HA	1:G:4549:VAL:HG22	2.01	0.41
1:G:4651:THR:OG1	1:G:4803:HIS:NE2	2.32	0.41
1:J:2914:LYS:HD2	1:J:2915:GLU:N	2.35	0.41
2:H:30:LEU:N	2:H:34:LYS:O	2.51	0.41
3:F:4:LEU:HD22	3:F:118:GLY:HA3	2.01	0.41
3:K:71:ARG:CB	3:K:78:VAL:HG22	2.49	0.41
1:B:358:THR:HG21	1:B:382:GLY:HA2	2.01	0.41
1:B:2189:LYS:HA	1:B:2192:TYR:CZ	2.55	0.41
1:B:2740:VAL:HG12	1:B:2742:THR:HB	2.01	0.41
1:B:2760:GLU:HA	1:B:2802:LYS:NZ	2.35	0.41
1:B:2806:ARG:NH1	1:B:2810:LYS:HG3	2.35	0.41
1:B:2862:LEU:HD23	1:B:2864:GLY:H	1.85	0.41
1:B:3062:PRO:HA	1:B:3065:VAL:HG22	2.02	0.41
1:B:3533:ILE:O	1:B:3537:LYS:HG3	2.20	0.41
1:B:3996:PHE:HZ	1:B:4019:LEU:HG	1.85	0.41
1:B:4802:GLY:HA2	1:B:4808:PHE:HB2	2.02	0.41
1:B:4823:LEU:O	1:B:4827:LEU:HG	2.19	0.41
1:E:1274:HIS:O	1:E:1559:GLN:NE2	2.53	0.41
1:E:2464:ASP:HA	1:E:2467:VAL:HG12	2.03	0.41
1:E:2760:GLU:HA	1:E:2802:LYS:NZ	2.35	0.41
1:E:2914:LYS:HD2	1:E:2915:GLU:N	2.35	0.41
1:E:3144:PHE:CD2	1:E:3197:LEU:HB3	2.55	0.41
1:E:3604:TYR:O	1:E:3607:GLU:HG3	2.20	0.41
1:E:3996:PHE:HZ	1:E:4019:LEU:HG	1.85	0.41
1:E:4904:PRO:HB3	1:E:4913:ARG:HD3	2.02	0.41
1:G:358:THR:HG21	1:G:382:GLY:HA2	2.01	0.41
1:G:437:PRO:HB2	1:G:440:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:541:SER:HA	1:G:574:VAL:HG12	2.02	0.41
1:G:894:GLY:HA3	1:G:903:LEU:HD22	2.01	0.41
1:G:2626:LEU:CG	1:G:2640:PRO:HB3	2.50	0.41
1:G:2759:ALA:HB1	1:G:2806:ARG:HA	2.02	0.41
1:J:46:LEU:HA	1:J:136:GLY:CA	2.49	0.41
1:J:48:PHE:HD2	1:J:50:GLU:OE1	2.03	0.41
1:J:340:LYS:O	1:J:344:SER:OG	2.32	0.41
1:J:467:LYS:HE3	1:J:467:LYS:HB3	1.87	0.41
1:J:514:SER:O	1:J:518:ILE:HG13	2.20	0.41
1:J:1126:GLY:HA3	1:J:1143:TRP:CZ3	2.55	0.41
1:J:1230:MET:HE3	1:J:1827:ARG:HE	1.85	0.41
1:J:2474:LEU:HD23	1:J:2499:LYS:NZ	2.35	0.41
1:J:2760:GLU:HA	1:J:2802:LYS:NZ	2.35	0.41
1:J:2764:GLU:HA	1:J:2855:TYR:CE2	2.55	0.41
1:J:2788:HIS:CD2	1:J:2789:PRO:HD2	2.55	0.41
1:J:2823:ILE:HA	1:J:2936:ALA:O	2.20	0.41
1:J:2862:LEU:HD23	1:J:2864:GLY:H	1.85	0.41
1:J:3432:GLU:O	1:J:3435:PHE:HB3	2.20	0.41
1:J:3531:ASP:O	1:J:3535:LEU:HD23	2.20	0.41
2:A:30:LEU:N	2:A:34:LYS:O	2.51	0.41
1:B:363:ASP:HB3	1:B:366:ALA:HB3	2.02	0.41
1:B:547:VAL:O	1:B:551:LEU:HG	2.20	0.41
1:B:984:LEU:HD23	1:B:987:ARG:NH2	2.34	0.41
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.20	0.41
1:B:1101:ARG:NH1	1:B:1114:GLU:HB3	2.34	0.41
1:B:3398:PHE:CD1	1:B:3451:PHE:HD1	2.37	0.41
1:B:3670:GLU:OE1	1:B:3732:SER:HB3	2.20	0.41
1:B:4124:ASN:OD1	1:B:4125:PHE:N	2.53	0.41
1:B:4998:LYS:HG3	1:B:5003:HIS:CE1	2.56	0.41
1:E:453:GLU:HA	1:E:454:PRO:HD3	1.96	0.41
1:E:1078:GLU:HA	1:E:1237:TRP:CD1	2.55	0.41
1:E:1666:THR:HG22	1:E:1670:TYR:CE2	2.55	0.41
1:E:2005:GLN:O	1:E:2009:LEU:HD23	2.21	0.41
1:E:2198:MET:HA	1:E:2203:MET:HE1	2.03	0.41
1:E:2596:THR:HB	1:E:2599:GLN:HG3	2.01	0.41
1:E:2605:ASP:HA	1:E:2608:MET:HG2	2.02	0.41
1:E:2636:PHE:O	1:E:2640:PRO:HD2	2.21	0.41
1:E:2958:GLY:O	1:E:2962:GLN:HG2	2.20	0.41
1:E:3531:ASP:O	1:E:3535:LEU:HD23	2.20	0.41
1:E:3963:ASN:O	1:E:3967:GLU:HG2	2.19	0.41
1:E:4188:ARG:HD2	1:E:4191:GLU:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:771:PHE:HB3	1:G:1472:VAL:HG23	2.01	0.41
1:G:2189:LYS:HA	1:G:2192:TYR:CZ	2.55	0.41
1:G:2596:THR:HB	1:G:2599:GLN:HG3	2.01	0.41
1:G:3250:MET:HA	1:G:3253:ILE:HG22	2.02	0.41
1:G:3398:PHE:CD1	1:G:3451:PHE:HD1	2.37	0.41
1:G:3531:ASP:O	1:G:3535:LEU:HD23	2.20	0.41
1:G:4123:ILE:H	1:G:4123:ILE:HD12	1.85	0.41
1:J:36:CYS:HB3	1:J:52:THR:HG21	2.02	0.41
1:J:541:SER:HA	1:J:574:VAL:HG12	2.02	0.41
1:J:587:ILE:HD12	1:J:624:ASN:HB3	2.02	0.41
1:J:984:LEU:HD23	1:J:987:ARG:HH21	1.85	0.41
1:J:2368:LEU:HD11	1:J:2376:LEU:HD12	2.02	0.41
1:J:2691:TYR:HA	1:J:2696:TYR:CE1	2.55	0.41
1:J:3724:ALA:O	1:J:3728:ILE:HG13	2.19	0.41
1:J:3752:SER:HB2	1:J:3755:GLU:HG3	2.01	0.41
1:J:3996:PHE:HZ	1:J:4019:LEU:HG	1.85	0.41
1:J:4060:LYS:HA	1:J:4063:ASP:OD2	2.21	0.41
1:J:4088:ILE:HG21	1:J:4125:PHE:HB3	2.01	0.41
2:I:62:GLY:HA3	2:I:74:LEU:HD21	2.03	0.41
1:B:16:THR:O	1:B:98:HIS:ND1	2.53	0.41
1:B:48:PHE:HD2	1:B:50:GLU:OE1	2.03	0.41
1:B:113:HIS:NE2	1:B:402:ARG:HB3	2.35	0.41
1:B:474:ARG:O	1:B:478:PHE:HD1	2.03	0.41
1:B:984:LEU:O	1:B:988:LEU:HG	2.21	0.41
1:B:1100:MET:HB2	1:B:1143:TRP:CZ2	2.55	0.41
1:B:1274:HIS:O	1:B:1559:GLN:NE2	2.53	0.41
1:B:1498:GLY:HA2	1:B:1501:VAL:HG12	2.03	0.41
1:B:1927:LEU:HD22	1:B:2101:MET:HG3	2.03	0.41
1:B:1932:PRO:O	1:B:1936:LYS:HG3	2.20	0.41
1:B:2452:ARG:O	1:B:2456:ILE:HG13	2.20	0.41
1:B:2636:PHE:O	1:B:2640:PRO:HD2	2.21	0.41
1:B:3156:VAL:HG23	1:B:3157:ILE:HG13	2.02	0.41
1:B:3537:LYS:HE2	1:B:3537:LYS:HB3	1.90	0.41
1:B:3963:ASN:O	1:B:3967:GLU:HG2	2.19	0.41
1:B:4088:ILE:HG21	1:B:4125:PHE:HB3	2.01	0.41
1:B:4123:ILE:H	1:B:4123:ILE:HD12	1.85	0.41
1:E:2438:PRO:HB2	1:E:2443:ILE:HD11	2.03	0.41
1:E:2474:LEU:HD23	1:E:2499:LYS:NZ	2.35	0.41
1:E:3670:GLU:OE1	1:E:3732:SER:HB3	2.20	0.41
1:E:3752:SER:HB2	1:E:3755:GLU:HG3	2.01	0.41
1:G:46:LEU:HA	1:G:136:GLY:CA	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:468:LEU:O	1:G:472:ARG:HG2	2.20	0.41
1:G:797:HIS:HE1	1:G:1626:TRP:CD1	2.37	0.41
1:G:1078:GLU:HA	1:G:1237:TRP:CD1	2.55	0.41
1:G:2005:GLN:O	1:G:2009:LEU:HD23	2.21	0.41
1:G:3963:ASN:O	1:G:3967:GLU:HG2	2.21	0.41
1:G:3996:PHE:HZ	1:G:4019:LEU:HG	1.85	0.41
1:G:4996:ILE:HD13	6:G:5103:CFE:C8	2.51	0.41
1:J:100:THR:HG21	1:J:162:LYS:HD3	2.03	0.41
1:J:973:SER:HA	1:J:1044:ARG:NH2	2.28	0.41
1:J:3604:TYR:O	1:J:3607:GLU:HG3	2.20	0.41
1:J:4802:GLY:HA2	1:J:4808:PHE:HB2	2.02	0.41
1:J:4904:PRO:HB3	1:J:4913:ARG:HD3	2.02	0.41
1:B:437:PRO:HB2	1:B:440:ALA:HB3	2.03	0.41
1:B:514:SER:O	1:B:518:ILE:HG13	2.20	0.41
1:B:587:ILE:HD12	1:B:624:ASN:HB3	2.02	0.41
1:B:871:ARG:HH11	1:B:922:LEU:HD22	1.86	0.41
1:B:1099:GLU:O	1:B:1100:MET:HE2	2.20	0.41
1:B:1526:LEU:HD23	1:B:1526:LEU:H	1.84	0.41
1:B:2005:GLN:O	1:B:2009:LEU:HD23	2.21	0.41
1:B:2558:VAL:O	1:B:2562:ILE:HG12	2.21	0.41
1:B:2823:ILE:HA	1:B:2936:ALA:O	2.20	0.41
1:B:2950:SER:HA	1:B:2953:LYS:HB2	2.03	0.41
1:B:3038:MET:O	1:B:3042:LEU:HD23	2.20	0.41
1:B:3413:ILE:HD11	1:B:3512:ALA:HB2	2.03	0.41
1:B:3604:TYR:O	1:B:3607:GLU:HG3	2.20	0.41
1:B:3752:SER:HB2	1:B:3755:GLU:HG3	2.01	0.41
1:B:4651:THR:OG1	1:B:4803:HIS:NE2	2.32	0.41
1:B:4658:ILE:CD1	1:B:4792:LEU:HB3	2.50	0.41
1:B:4904:PRO:HB3	1:B:4913:ARG:HD3	2.02	0.41
1:E:360:ALA:HB3	1:E:375:LYS:HB3	2.03	0.41
1:E:984:LEU:HD23	1:E:987:ARG:HH21	1.85	0.41
1:E:1100:MET:HB2	1:E:1143:TRP:CZ2	2.55	0.41
1:E:1758:ARG:NH1	1:E:2037:ASP:HA	2.36	0.41
1:E:1828:ASP:N	1:E:1828:ASP:OD1	2.54	0.41
1:E:1927:LEU:HD22	1:E:2101:MET:HG3	2.02	0.41
1:E:3391:GLU:HA	1:E:3394:VAL:HG22	2.03	0.41
1:E:3450:ASN:HA	1:E:3453:ARG:HG2	2.02	0.41
1:E:4691:GLN:HB2	1:E:4703:ARG:HH22	1.85	0.41
1:G:871:ARG:HD3	1:G:925:SER:HB2	2.02	0.41
1:G:1126:GLY:HA3	1:G:1143:TRP:CZ3	2.55	0.41
1:G:1247:PRO:HA	1:G:1598:GLN:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1274:HIS:O	1:G:1559:GLN:NE2	2.53	0.41
1:G:1498:GLY:HA2	1:G:1501:VAL:HG12	2.03	0.41
1:G:2273:LEU:HD11	1:G:2334:PHE:HB2	2.03	0.41
1:G:2368:LEU:HD11	1:G:2376:LEU:HD12	2.02	0.41
1:G:2764:GLU:HA	1:G:2855:TYR:CE2	2.55	0.41
1:G:3062:PRO:HA	1:G:3065:VAL:HG22	2.02	0.41
1:G:3945:GLU:O	1:G:3949:ARG:HG3	2.19	0.41
1:G:4124:ASN:OD1	1:G:4125:PHE:N	2.53	0.41
1:G:4642:ALA:O	1:G:4646:LEU:HD23	2.21	0.41
1:G:4658:ILE:CD1	1:G:4792:LEU:HB3	2.50	0.41
1:J:363:ASP:HB3	1:J:366:ALA:HB3	2.02	0.41
1:J:917:GLU:HB3	3:K:104:TYR:OH	2.19	0.41
1:J:1035:ASN:OD1	3:K:109:THR:OG1	2.37	0.41
1:J:2273:LEU:HD11	1:J:2334:PHE:HB2	2.03	0.41
1:J:2464:ASP:HA	1:J:2467:VAL:HG12	2.03	0.41
1:J:2866:THR:O	1:J:2867:LEU:HB2	2.21	0.41
1:J:3962:PHE:O	1:J:3966:THR:HG23	2.20	0.41
1:J:4642:ALA:O	1:J:4646:LEU:HD23	2.21	0.41
2:D:62:GLY:HA3	2:D:74:LEU:HD21	2.03	0.41
1:B:119:SER:OG	1:B:120:CYS:N	2.54	0.41
1:B:3015:LEU:HD21	1:B:3025:LEU:HD12	2.03	0.41
1:B:3250:MET:HA	1:B:3253:ILE:HG22	2.02	0.41
1:E:100:THR:HG21	1:E:162:LYS:HD3	2.03	0.41
1:E:358:THR:HG21	1:E:382:GLY:HA2	2.02	0.41
1:E:664:PHE:CE1	1:E:746:CYS:HB2	2.56	0.41
1:E:3131:TYR:CE2	1:E:3136:LEU:HG	2.56	0.41
1:E:3785:ALA:HA	1:E:3787:LYS:HE2	2.03	0.41
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.20	0.41
1:E:4060:LYS:HA	1:E:4063:ASP:OD2	2.21	0.41
1:E:4698:LYS:HG3	1:E:4699:GLY:N	2.36	0.41
1:G:113:HIS:NE2	1:G:402:ARG:HB3	2.35	0.41
1:G:880:GLU:O	1:G:884:LEU:HG	2.19	0.41
1:G:2230:THR:HG22	1:G:2234:ARG:HH11	1.85	0.41
1:G:3400:VAL:HG23	1:G:3403:ARG:HH21	1.84	0.41
1:G:3413:ILE:HD11	1:G:3512:ALA:HB2	2.03	0.41
1:G:3533:ILE:O	1:G:3537:LYS:HG3	2.20	0.41
1:G:3752:SER:HB2	1:G:3755:GLU:HG3	2.01	0.41
1:G:4698:LYS:HG3	1:G:4699:GLY:N	2.36	0.41
1:G:4904:PRO:HB3	1:G:4913:ARG:HD3	2.02	0.41
1:J:113:HIS:NE2	1:J:402:ARG:HB3	2.35	0.41
1:J:358:THR:HG21	1:J:382:GLY:HA2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:437:PRO:HB2	1:J:440:ALA:HB3	2.03	0.41
1:J:474:ARG:O	1:J:478:PHE:HD1	2.03	0.41
1:J:835:ARG:NH2	1:J:1203:ASN:HD22	2.09	0.41
1:J:880:GLU:HA	1:J:967:PRO:HB2	2.01	0.41
1:J:1288:PHE:HB2	1:J:1600:LEU:HB2	2.03	0.41
1:J:2950:SER:HA	1:J:2953:LYS:HB2	2.03	0.41
1:J:2958:GLY:O	1:J:2962:GLN:HG2	2.20	0.41
1:J:3062:PRO:HA	1:J:3065:VAL:HG22	2.02	0.41
1:J:3349:ALA:HB1	1:J:3353:LEU:HD12	2.02	0.41
1:J:3384:LYS:HG2	1:J:3386:GLU:N	2.36	0.41
1:J:4188:ARG:HD2	1:J:4191:GLU:HG3	2.02	0.41
1:B:2866:THR:O	1:B:2867:LEU:HB2	2.21	0.41
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.21	0.41
1:E:1534:LYS:HE3	1:E:1534:LYS:HB2	1.95	0.41
1:E:1683:HIS:CG	1:E:1797:ARG:HH21	2.39	0.41
1:E:2001:PRO:O	1:E:2005:GLN:HG3	2.19	0.41
1:E:2368:LEU:HD11	1:E:2376:LEU:HD12	2.02	0.41
1:E:3038:MET:O	1:E:3042:LEU:HD23	2.20	0.41
1:E:3244:PRO:HB2	1:E:3248:ARG:HE	1.86	0.41
1:E:3413:ILE:HD11	1:E:3512:ALA:HB2	2.03	0.41
1:E:3533:ILE:O	1:E:3537:LYS:HG3	2.20	0.41
1:E:3923:LEU:HD11	1:E:3962:PHE:CZ	2.56	0.41
1:E:4642:ALA:O	1:E:4646:LEU:HD23	2.21	0.41
1:G:828:GLU:HG3	1:G:840:VAL:HG21	2.01	0.41
1:G:1123:VAL:HG13	1:G:1132:TRP:HB3	2.01	0.41
1:G:1128:ARG:HE	1:G:1130:GLN:NE2	2.17	0.41
1:G:1927:LEU:HD22	1:G:2101:MET:HG3	2.02	0.41
1:G:2866:THR:HG21	1:G:2872:GLN:NE2	2.36	0.41
1:G:3244:PRO:HB2	1:G:3248:ARG:HE	1.86	0.41
1:G:3522:LEU:HA	1:G:3525:CYS:SG	2.61	0.41
1:G:3779:VAL:O	1:G:3783:ILE:HG13	2.21	0.41
1:G:4060:LYS:HA	1:G:4063:ASP:OD2	2.21	0.41
1:G:4243:PHE:HE2	1:G:4668:LEU:HA	1.86	0.41
1:J:16:THR:O	1:J:98:HIS:ND1	2.53	0.41
1:J:664:PHE:CE1	1:J:746:CYS:HB2	2.56	0.41
1:J:1247:PRO:HA	1:J:1598:GLN:HA	2.01	0.41
1:J:1932:PRO:O	1:J:1936:LYS:HG3	2.20	0.41
1:J:2598:ALA:O	1:J:2602:VAL:HG23	2.20	0.41
1:J:3413:ILE:HD11	1:J:3512:ALA:HB2	2.03	0.41
1:J:4698:LYS:HG3	1:J:4699:GLY:N	2.36	0.41
2:A:62:GLY:HA3	2:A:74:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:100:VAL:HG22	3:C:105:ASN:HB2	2.02	0.41
1:B:246:TYR:HE1	1:B:375:LYS:HZ3	1.68	0.41
1:B:573:GLU:CD	1:B:573:GLU:H	2.24	0.41
1:B:659:TYR:CE2	1:B:661:LYS:HB2	2.56	0.41
1:B:984:LEU:HD23	1:B:987:ARG:HH21	1.85	0.41
1:B:1288:PHE:HB2	1:B:1600:LEU:HB2	2.03	0.41
1:B:1293:LEU:HD11	1:B:1594:ARG:HG2	2.03	0.41
1:B:2438:PRO:HB2	1:B:2443:ILE:HD11	2.03	0.41
1:B:2694:GLU:O	1:B:2697:ARG:HG3	2.20	0.41
1:B:2788:HIS:CD2	1:B:2789:PRO:HD2	2.55	0.41
1:B:3923:LEU:HD11	1:B:3962:PHE:CZ	2.56	0.41
1:B:4698:LYS:HG3	1:B:4699:GLY:N	2.36	0.41
1:B:4892:ARG:NH2	1:E:4918:ILE:HD13	2.35	0.41
1:E:437:PRO:HB2	1:E:440:ALA:HB3	2.02	0.41
1:E:1079:LYS:HE3	1:E:1107:PRO:HB3	2.03	0.41
1:E:1526:LEU:HD23	1:E:1526:LEU:H	1.84	0.41
1:E:2158:CYS:O	1:E:2162:ILE:HG13	2.20	0.41
1:E:2866:THR:O	1:E:2867:LEU:HB2	2.21	0.41
1:E:3015:LEU:HD21	1:E:3025:LEU:HD12	2.03	0.41
1:E:3432:GLU:O	1:E:3435:PHE:HB3	2.20	0.41
1:E:4664:LEU:HD22	1:E:4665:LYS:HD3	2.03	0.41
1:G:984:LEU:O	1:G:988:LEU:HG	2.21	0.41
1:G:1932:PRO:O	1:G:1936:LYS:HG3	2.20	0.41
1:G:2452:ARG:O	1:G:2456:ILE:HG13	2.20	0.41
1:G:2464:ASP:HA	1:G:2467:VAL:HG12	2.03	0.41
1:G:2814:LYS:HA	1:G:2817:ILE:HG12	2.03	0.41
1:G:2823:ILE:HA	1:G:2936:ALA:O	2.20	0.41
1:G:3604:TYR:O	1:G:3607:GLU:HG3	2.20	0.41
1:G:3891:LEU:O	1:G:3896:ASN:ND2	2.47	0.41
1:J:1037:ASP:OD1	1:J:1037:ASP:N	2.53	0.41
1:J:1683:HIS:CG	1:J:1797:ARG:HH21	2.39	0.41
1:J:2005:GLN:O	1:J:2009:LEU:HD23	2.21	0.41
1:J:2333:ASP:HA	1:J:2336:ARG:HG2	2.02	0.41
1:J:2515:GLN:O	1:J:2519:LEU:HG	2.21	0.41
1:J:2819:TRP:NE1	1:J:2881:ASN:OD1	2.42	0.41
1:J:3391:GLU:HA	1:J:3394:VAL:HG22	2.03	0.41
1:J:3923:LEU:HD11	1:J:3962:PHE:CZ	2.56	0.41
1:J:4123:ILE:H	1:J:4123:ILE:HD12	1.85	0.41
1:J:4243:PHE:HE2	1:J:4668:LEU:HA	1.86	0.41
1:J:4541:TRP:O	1:J:4544:LEU:HG	2.20	0.41
1:J:4960:ILE:HB	1:J:4983:HIS:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:100:VAL:HG22	3:K:105:ASN:HB2	2.03	0.41
1:B:77:ALA:HB2	1:G:3935:TRP:CZ2	2.56	0.41
1:B:213:TYR:C	1:B:341:TYR:HB2	2.41	0.41
1:B:468:LEU:O	1:B:472:ARG:HG2	2.20	0.41
1:B:667:MET:HB2	1:B:790:ARG:HB2	2.03	0.41
1:B:684:VAL:HG13	1:B:781:VAL:HG12	2.03	0.41
1:B:1042:ALA:O	1:B:1046:LEU:HG	2.21	0.41
1:B:1078:GLU:HA	1:B:1237:TRP:CD1	2.55	0.41
1:B:1683:HIS:CG	1:B:1797:ARG:HH21	2.39	0.41
1:B:1737:PRO:HG2	1:B:1769:THR:HG22	2.03	0.41
1:B:1758:ARG:NH1	1:B:2037:ASP:HA	2.36	0.41
1:B:2230:THR:O	1:B:2234:ARG:HG3	2.21	0.41
1:B:2273:LEU:HD11	1:B:2334:PHE:HB2	2.03	0.41
1:B:2368:LEU:HD11	1:B:2376:LEU:HD12	2.02	0.41
1:B:2819:TRP:NE1	1:B:2881:ASN:OD1	2.42	0.41
1:B:2866:THR:HG21	1:B:2872:GLN:NE2	2.36	0.41
1:B:2874:MET:HE1	1:B:2939:ARG:NH1	2.35	0.41
1:B:3131:TYR:CE2	1:B:3136:LEU:HG	2.56	0.41
1:B:3391:GLU:HA	1:B:3394:VAL:HG22	2.03	0.41
1:B:3400:VAL:HG23	1:B:3403:ARG:HH21	1.84	0.41
1:B:3432:GLU:O	1:B:3435:PHE:HB3	2.20	0.41
1:B:3531:ASP:O	1:B:3535:LEU:HD23	2.20	0.41
1:B:3962:PHE:HZ	1:B:3992:PHE:CE2	2.39	0.41
1:B:3962:PHE:O	1:B:3966:THR:HG23	2.20	0.41
1:B:4664:LEU:HD22	1:B:4665:LYS:HD3	2.03	0.41
1:E:113:HIS:NE2	1:E:402:ARG:HB3	2.35	0.41
1:E:172:VAL:HG22	1:E:179:TYR:HA	2.03	0.41
1:E:445:LEU:HD21	1:E:522:LEU:HD23	2.03	0.41
1:E:514:SER:O	1:E:518:ILE:HG13	2.20	0.41
1:E:636:ASN:OD1	1:E:637:LEU:N	2.52	0.41
1:E:710:ASP:OD1	1:E:711:LEU:N	2.54	0.41
1:E:733:PRO:HG2	1:E:762:CYS:HB3	2.03	0.41
1:E:816:LEU:HB2	1:E:819:GLU:HB2	2.03	0.41
1:E:871:ARG:HD3	1:E:925:SER:HB2	2.02	0.41
1:E:1288:PHE:HB2	1:E:1600:LEU:HB2	2.03	0.41
1:E:1737:PRO:HG2	1:E:1769:THR:HG22	2.03	0.41
1:E:1780:PRO:HD3	1:E:1801:ALA:H	1.86	0.41
1:E:2189:LYS:HA	1:E:2192:TYR:CZ	2.55	0.41
1:E:2230:THR:HG22	1:E:2234:ARG:HH11	1.85	0.41
1:E:2515:GLN:O	1:E:2519:LEU:HG	2.21	0.41
1:E:2558:VAL:O	1:E:2562:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2598:ALA:O	1:E:2602:VAL:HG23	2.20	0.41
1:E:2694:GLU:O	1:E:2697:ARG:HG3	2.20	0.41
1:E:2866:THR:HG21	1:E:2872:GLN:NE2	2.36	0.41
1:E:2879:ALA:HA	1:E:2882:TYR:HD2	1.85	0.41
1:E:2950:SER:HA	1:E:2953:LYS:HB2	2.03	0.41
1:E:3021:PRO:HD3	1:E:3036:LYS:NZ	2.34	0.41
1:E:3191:GLY:HA2	1:E:3194:LEU:HG	2.03	0.41
1:E:3400:VAL:HG23	1:E:3403:ARG:HH21	1.84	0.41
1:E:3935:TRP:CZ2	1:J:77:ALA:HB2	2.56	0.41
1:E:4160:LEU:HA	1:E:4163:PHE:HD2	1.84	0.41
1:E:4802:GLY:HA2	1:E:4808:PHE:HB2	2.02	0.41
1:E:4998:LYS:HG3	1:E:5003:HIS:CE1	2.56	0.41
1:G:57:ASN:HA	1:G:308:HIS:CD2	2.56	0.41
1:G:213:TYR:C	1:G:341:TYR:HB2	2.41	0.41
1:G:514:SER:O	1:G:518:ILE:HG13	2.20	0.41
1:G:667:MET:HB2	1:G:790:ARG:HB2	2.03	0.41
1:G:1079:LYS:HE3	1:G:1107:PRO:HB3	2.03	0.41
1:G:1288:PHE:HB2	1:G:1600:LEU:HB2	2.03	0.41
1:G:2515:GLN:O	1:G:2519:LEU:HG	2.21	0.41
1:G:2716:ASP:OD1	1:G:2716:ASP:N	2.54	0.41
1:G:2760:GLU:HA	1:G:2802:LYS:NZ	2.35	0.41
1:G:2862:LEU:HD23	1:G:2864:GLY:H	1.85	0.41
1:G:2950:SER:HA	1:G:2953:LYS:HB2	2.03	0.41
1:G:2958:GLY:O	1:G:2962:GLN:HG2	2.19	0.41
1:G:3670:GLU:OE1	1:G:3732:SER:HB3	2.20	0.41
1:G:4664:LEU:HD22	1:G:4665:LYS:HD3	2.03	0.41
1:G:4859:PHE:HE1	1:G:4909:TYR:HB3	1.85	0.41
1:G:4960:ILE:HB	1:G:4983:HIS:HB3	2.03	0.41
1:J:866:HIS:HB3	1:J:870:ILE:HG12	2.03	0.41
1:J:984:LEU:O	1:J:988:LEU:HG	2.21	0.41
1:J:1078:GLU:HA	1:J:1237:TRP:CD1	2.55	0.41
1:J:1079:LYS:HE3	1:J:1107:PRO:HB3	2.03	0.41
1:J:1095:VAL:O	1:J:1145:SER:OG	2.25	0.41
1:J:1478:ASP:OD1	1:J:1482:ASN:N	2.53	0.41
1:J:2636:PHE:O	1:J:2640:PRO:HD2	2.21	0.41
1:J:2866:THR:HG21	1:J:2872:GLN:NE2	2.36	0.41
1:J:3015:LEU:HD21	1:J:3025:LEU:HD12	2.03	0.41
1:J:3250:MET:HA	1:J:3253:ILE:HG22	2.02	0.41
1:J:3450:ASN:HA	1:J:3453:ARG:HG2	2.02	0.41
1:J:4664:LEU:HD22	1:J:4665:LYS:HD3	2.03	0.41
2:D:30:LEU:N	2:D:34:LYS:O	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:4:LEU:HD22	3:K:118:GLY:HA3	2.01	0.41
3:M:4:LEU:HD22	3:M:118:GLY:HA3	2.01	0.41
1:B:14:LEU:HD21	1:B:165:VAL:HG12	2.03	0.41
1:B:541:SER:HA	1:B:574:VAL:HG12	2.02	0.41
1:B:1240:LYS:HE2	1:B:1240:LYS:HB3	1.93	0.41
1:B:1459:GLN:HE22	1:B:1469:VAL:HA	1.87	0.41
1:B:2295:LEU:HA	1:B:2298:VAL:HG12	2.03	0.41
1:B:3522:LEU:HA	1:B:3525:CYS:SG	2.61	0.41
1:B:3935:TRP:CZ2	1:E:77:ALA:HB2	2.56	0.41
1:E:659:TYR:CE2	1:E:661:LYS:HB2	2.56	0.41
1:E:2788:HIS:CD2	1:E:2789:PRO:HD2	2.55	0.41
1:E:2814:LYS:HA	1:E:2817:ILE:HG12	2.03	0.41
1:E:3522:LEU:HA	1:E:3525:CYS:SG	2.61	0.41
1:G:219:VAL:HG12	1:G:261:ARG:HB2	2.03	0.41
1:G:221:ARG:NH2	1:G:255:HIS:O	2.49	0.41
1:G:467:LYS:HE3	1:G:467:LYS:HB3	1.87	0.41
1:G:573:GLU:CD	1:G:573:GLU:H	2.24	0.41
1:G:917:GLU:HB3	3:M:104:TYR:OH	2.18	0.41
1:G:2333:ASP:HA	1:G:2336:ARG:HG2	2.02	0.41
1:G:2636:PHE:O	1:G:2640:PRO:HD2	2.21	0.41
1:G:2788:HIS:CD2	1:G:2789:PRO:HD2	2.55	0.41
1:G:4998:LYS:HG3	1:G:5003:HIS:CE1	2.56	0.41
1:J:445:LEU:HD21	1:J:522:LEU:HD23	2.03	0.41
1:J:924:MET:HE1	3:K:106:PRO:HD2	2.02	0.41
1:J:1718:ILE:HG13	1:J:1719:HIS:ND1	2.36	0.41
1:J:2230:THR:HG22	1:J:2234:ARG:HH11	1.85	0.41
1:J:2558:VAL:O	1:J:2562:ILE:HG12	2.21	0.41
1:J:3172:ILE:HG21	1:J:3194:LEU:HD23	2.03	0.41
3:C:105:ASN:C	3:C:107:TRP:H	2.24	0.41
1:B:266:ARG:NH2	1:B:269:TRP:O	2.54	0.40
1:B:1079:LYS:HE3	1:B:1107:PRO:HB3	2.03	0.40
1:B:1466:LEU:O	1:B:1469:VAL:HG22	2.21	0.40
1:B:1478:ASP:OD1	1:B:1482:ASN:N	2.53	0.40
1:B:2303:ALA:O	1:B:2307:LEU:HD23	2.22	0.40
1:B:2333:ASP:HA	1:B:2336:ARG:HG2	2.02	0.40
1:B:2620:GLN:HA	1:B:2623:LEU:HD12	2.04	0.40
1:B:2999:ALA:HB3	1:B:3000:LYS:HZ2	1.87	0.40
1:B:3785:ALA:HA	1:B:3787:LYS:HE2	2.03	0.40
1:B:3847:PHE:HZ	1:B:3937:TYR:HH	1.67	0.40
1:B:4642:ALA:O	1:B:4646:LEU:HD23	2.21	0.40
1:E:266:ARG:NH2	1:E:269:TRP:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1466:LEU:O	1:E:1469:VAL:HG22	2.21	0.40
1:E:1718:ILE:HG13	1:E:1719:HIS:ND1	2.36	0.40
1:E:2230:THR:O	1:E:2234:ARG:HG3	2.21	0.40
1:E:4243:PHE:HE2	1:E:4668:LEU:HA	1.86	0.40
1:E:4567:LEU:HD13	1:E:4815:ASP:HB3	2.03	0.40
1:G:535:ALA:O	1:G:539:LEU:HG	2.21	0.40
1:G:587:ILE:HD12	1:G:624:ASN:HB3	2.02	0.40
1:G:973:SER:HA	1:G:1044:ARG:NH2	2.28	0.40
1:G:2303:ALA:O	1:G:2307:LEU:HD23	2.22	0.40
1:G:2558:VAL:O	1:G:2562:ILE:HG12	2.21	0.40
1:G:2755:ILE:HG22	1:G:2810:LYS:HZ1	1.87	0.40
1:G:2866:THR:O	1:G:2867:LEU:HB2	2.21	0.40
1:G:3015:LEU:HD21	1:G:3025:LEU:HD12	2.03	0.40
1:G:3131:TYR:CE2	1:G:3136:LEU:HG	2.56	0.40
1:G:3398:PHE:HA	1:G:3401:LEU:HG	2.03	0.40
1:G:4040:ILE:O	1:G:4044:MET:HG2	2.22	0.40
1:J:535:ALA:O	1:J:539:LEU:HG	2.21	0.40
1:J:1293:LEU:HD11	1:J:1594:ARG:HG2	2.03	0.40
1:J:1293:LEU:HD21	1:J:1594:ARG:HD3	2.03	0.40
1:J:1658:ASP:OD1	1:J:1658:ASP:N	2.52	0.40
1:J:2694:GLU:O	1:J:2697:ARG:HG3	2.20	0.40
1:J:3521:GLY:HA2	1:J:3524:MET:HG2	2.02	0.40
1:J:3533:ILE:O	1:J:3537:LYS:HG3	2.20	0.40
2:D:23:VAL:HB	2:D:45:PRO:HB2	2.03	0.40
2:I:23:VAL:HB	2:I:45:PRO:HB2	2.03	0.40
1:B:871:ARG:HD3	1:B:925:SER:HB2	2.02	0.40
1:B:927:GLU:HA	1:B:930:LYS:HD2	2.02	0.40
1:B:1434:TYR:HA	1:B:1518:CYS:O	2.22	0.40
1:B:2247:GLN:NE2	1:B:2281:ILE:O	2.38	0.40
1:B:2464:ASP:HA	1:B:2467:VAL:HG12	2.03	0.40
1:B:2470:ILE:HB	1:B:2502:MET:CE	2.52	0.40
1:B:2487:GLN:HB3	1:B:2546:MET:HE1	2.03	0.40
1:B:3244:PRO:HB2	1:B:3248:ARG:HE	1.86	0.40
1:B:3540:TYR:HB3	1:B:3604:TYR:CD2	2.56	0.40
1:B:4661:TYR:OH	1:B:4788:SER:HB2	2.21	0.40
1:B:4960:ILE:HB	1:B:4983:HIS:HB3	2.03	0.40
1:E:2121:PHE:CZ	1:E:3701:LEU:HB2	2.56	0.40
1:E:3349:ALA:HB1	1:E:3353:LEU:HD12	2.02	0.40
1:E:4123:ILE:H	1:E:4123:ILE:HD12	1.85	0.40
1:E:4182:GLU:OE1	1:E:4983:HIS:NE2	2.52	0.40
1:G:439:GLU:HG2	1:G:440:ALA:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1570:LYS:O	1:G:1572:ILE:HG13	2.22	0.40
1:G:1658:ASP:N	1:G:1658:ASP:OD1	2.52	0.40
1:G:1718:ILE:HG13	1:G:1719:HIS:ND1	2.36	0.40
1:G:1786:LEU:HD22	2:H:87:HIS:HD2	1.87	0.40
1:G:1828:ASP:N	1:G:1828:ASP:OD1	2.54	0.40
1:G:2438:PRO:HB2	1:G:2443:ILE:HD11	2.03	0.40
1:G:2620:GLN:HA	1:G:2623:LEU:HD12	2.04	0.40
1:G:2694:GLU:O	1:G:2697:ARG:HG3	2.20	0.40
1:G:3384:LYS:HG2	1:G:3386:GLU:N	2.36	0.40
1:G:3517:MET:SD	1:G:3517:MET:N	2.93	0.40
1:G:4168:GLU:O	1:G:4172:GLU:HG2	2.22	0.40
1:J:573:GLU:H	1:J:573:GLU:CD	2.24	0.40
1:J:871:ARG:HH11	1:J:922:LEU:HD22	1.86	0.40
1:J:1274:HIS:O	1:J:1559:GLN:NE2	2.53	0.40
1:J:1570:LYS:O	1:J:1572:ILE:HG13	2.21	0.40
1:J:2962:GLN:O	1:J:2966:TRP:HD1	2.05	0.40
1:J:3540:TYR:HB3	1:J:3604:TYR:CD2	2.56	0.40
1:J:4661:TYR:OH	1:J:4788:SER:HB2	2.21	0.40
3:C:85:LEU:HB3	3:C:125:VAL:HG13	2.03	0.40
3:M:85:LEU:HB3	3:M:125:VAL:HG13	2.03	0.40
1:B:172:VAL:HG22	1:B:179:TYR:HA	2.03	0.40
1:B:710:ASP:OD1	1:B:711:LEU:N	2.54	0.40
1:B:1119:GLU:HA	1:B:1133:HIS:CE1	2.56	0.40
1:B:2369:ARG:HD2	1:B:2369:ARG:HA	1.95	0.40
1:B:2759:ALA:HB1	1:B:2806:ARG:HA	2.02	0.40
1:B:3191:GLY:HA2	1:B:3194:LEU:HG	2.03	0.40
1:E:219:VAL:HG12	1:E:261:ARG:HB2	2.03	0.40
1:E:927:GLU:HA	1:E:930:LYS:HD2	2.02	0.40
1:E:1123:VAL:CG1	1:E:1132:TRP:HB3	2.52	0.40
1:E:1427:ILE:HD13	1:E:1427:ILE:HA	1.93	0.40
1:E:1434:TYR:HA	1:E:1518:CYS:O	2.22	0.40
1:E:1478:ASP:OD1	1:E:1482:ASN:N	2.52	0.40
1:E:1497:GLY:HA2	1:E:1500:PHE:HD2	1.86	0.40
1:E:1498:GLY:HA2	1:E:1501:VAL:HG12	2.03	0.40
1:E:2295:LEU:HA	1:E:2298:VAL:HG12	2.03	0.40
1:E:2738:ARG:H	1:E:2738:ARG:HD3	1.87	0.40
1:E:2759:ALA:HB1	1:E:2806:ARG:HA	2.02	0.40
1:E:2765:LYS:HA	1:E:2765:LYS:HD3	1.87	0.40
1:E:3540:TYR:HB3	1:E:3604:TYR:CD2	2.56	0.40
1:G:67:PHE:HE2	1:G:118:LEU:HB2	1.86	0.40
1:G:659:TYR:CE2	1:G:661:LYS:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:927:GLU:HA	1:G:930:LYS:HD2	2.02	0.40
1:G:1101:ARG:HB3	1:G:1123:VAL:HG21	2.04	0.40
1:G:1293:LEU:HD11	1:G:1594:ARG:HG2	2.03	0.40
1:G:1466:LEU:O	1:G:1469:VAL:HG22	2.21	0.40
1:G:2121:PHE:CZ	1:G:3701:LEU:HB2	2.57	0.40
1:G:2230:THR:O	1:G:2234:ARG:HG3	2.21	0.40
1:G:3391:GLU:HA	1:G:3394:VAL:HG22	2.03	0.40
1:G:3445:TRP:HD1	1:G:3451:PHE:CD2	2.40	0.40
1:G:4128:PHE:HA	1:G:4131:ARG:NE	2.36	0.40
1:G:4188:ARG:HD2	1:G:4191:GLU:HG3	2.02	0.40
1:G:4661:TYR:OH	1:G:4786:ASP:OD2	2.30	0.40
1:G:4691:GLN:HB2	1:G:4703:ARG:HH22	1.85	0.40
1:J:213:TYR:C	1:J:341:TYR:HB2	2.41	0.40
1:J:871:ARG:HD3	1:J:925:SER:HB2	2.03	0.40
1:J:1740:PRO:HA	1:J:1743:ARG:HG2	2.03	0.40
1:J:2189:LYS:HA	1:J:2192:TYR:CZ	2.55	0.40
1:J:2230:THR:O	1:J:2234:ARG:HG3	2.21	0.40
1:J:3400:VAL:HG23	1:J:3403:ARG:HH21	1.84	0.40
1:J:3445:TRP:HD1	1:J:3451:PHE:CD2	2.40	0.40
1:J:4168:GLU:O	1:J:4172:GLU:HG2	2.22	0.40
1:J:4867:GLU:OE1	1:J:4872:PRO:HD2	2.22	0.40
1:B:487:VAL:O	1:B:491:ILE:HG13	2.22	0.40
1:B:719:LEU:C	1:B:730:VAL:HG12	2.42	0.40
1:B:1123:VAL:CG1	1:B:1132:TRP:HB3	2.52	0.40
1:B:2155:LEU:HD12	1:B:2188:ASN:HD22	1.87	0.40
1:B:2962:GLN:O	1:B:2966:TRP:HD1	2.05	0.40
1:B:3696:ASP:OD2	1:B:3773:ARG:NH2	2.54	0.40
1:B:4668:LEU:O	1:B:4672:LYS:HG3	2.21	0.40
1:B:4691:GLN:HB2	1:B:4703:ARG:HH22	1.85	0.40
1:B:4867:GLU:OE1	1:B:4872:PRO:HD2	2.22	0.40
1:E:213:TYR:C	1:E:341:TYR:HB2	2.41	0.40
1:E:535:ALA:O	1:E:539:LEU:HG	2.21	0.40
1:E:573:GLU:CD	1:E:573:GLU:H	2.24	0.40
1:E:719:LEU:C	1:E:730:VAL:HG12	2.42	0.40
1:E:1440:PHE:HZ	1:E:1563:GLN:HB2	1.87	0.40
1:E:4128:PHE:HA	1:E:4131:ARG:NE	2.36	0.40
1:E:4661:TYR:OH	1:E:4788:SER:HB2	2.21	0.40
1:E:4937:ILE:HD11	1:J:4930:ALA:HB1	2.03	0.40
1:G:664:PHE:CE1	1:G:746:CYS:HB2	2.56	0.40
1:G:1042:ALA:O	1:G:1046:LEU:HG	2.21	0.40
1:G:1830:VAL:HB	1:G:1837:GLN:HG3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2740:VAL:HG11	1:G:2815:ALA:HA	2.04	0.40
1:G:2948:THR:O	1:G:2953:LYS:HE3	2.22	0.40
1:G:3546:ASP:N	1:G:3546:ASP:OD1	2.55	0.40
1:G:4668:LEU:O	1:G:4672:LYS:HG3	2.21	0.40
1:J:733:PRO:HG2	1:J:762:CYS:HB3	2.03	0.40
1:J:1123:VAL:CG1	1:J:1132:TRP:HB3	2.52	0.40
1:J:1440:PHE:HZ	1:J:1563:GLN:HB2	1.87	0.40
1:J:1808:ARG:NH1	1:J:1853:ILE:O	2.49	0.40
1:J:2198:MET:HA	1:J:2203:MET:HE1	2.02	0.40
1:J:2716:ASP:OD1	1:J:2716:ASP:N	2.54	0.40
1:J:2765:LYS:HD3	1:J:2765:LYS:HA	1.87	0.40
1:J:3398:PHE:HA	1:J:3401:LEU:HG	2.03	0.40
1:J:3785:ALA:HA	1:J:3787:LYS:HE2	2.03	0.40
1:J:4668:LEU:O	1:J:4672:LYS:HG3	2.21	0.40
2:H:8:SER:O	2:H:70:GLN:HG3	2.21	0.40
2:H:62:GLY:HA3	2:H:74:LEU:HD21	2.03	0.40
3:F:85:LEU:HB3	3:F:125:VAL:HG13	2.04	0.40
3:K:85:LEU:HB3	3:K:125:VAL:HG13	2.03	0.40
1:B:67:PHE:HE2	1:B:118:LEU:HB2	1.86	0.40
1:B:246:TYR:HD1	1:B:375:LYS:HA	1.85	0.40
1:B:363:ASP:HA	1:B:364:PRO:HD2	1.96	0.40
1:B:451:TYR:OH	1:B:474:ARG:HD2	2.22	0.40
1:B:816:LEU:HB2	1:B:819:GLU:HB2	2.03	0.40
1:B:1780:PRO:HD3	1:B:1801:ALA:H	1.86	0.40
1:B:2948:THR:O	1:B:2953:LYS:HE3	2.22	0.40
1:E:48:PHE:HD2	1:E:50:GLU:OE1	2.03	0.40
1:E:67:PHE:HE2	1:E:118:LEU:HB2	1.86	0.40
1:E:119:SER:OG	1:E:120:CYS:N	2.54	0.40
1:E:1042:ALA:O	1:E:1046:LEU:HG	2.21	0.40
1:E:1095:VAL:O	1:E:1145:SER:OG	2.25	0.40
1:E:1293:LEU:HD21	1:E:1594:ARG:HD3	2.03	0.40
1:E:1459:GLN:HE22	1:E:1469:VAL:HA	1.87	0.40
1:E:1944:GLU:HG3	1:E:2126:ARG:NH1	2.37	0.40
1:E:2487:GLN:HB3	1:E:2546:MET:CE	2.52	0.40
1:E:2716:ASP:OD1	1:E:2716:ASP:N	2.54	0.40
1:E:3172:ILE:HG21	1:E:3194:LEU:HD23	2.03	0.40
1:E:3962:PHE:HZ	1:E:3992:PHE:CE2	2.39	0.40
1:E:4960:ILE:HB	1:E:4983:HIS:HB3	2.03	0.40
1:G:100:THR:HG21	1:G:162:LYS:HD3	2.03	0.40
1:G:445:LEU:HD21	1:G:522:LEU:HD23	2.03	0.40
1:G:516:LYS:NZ	1:G:555:GLU:HG3	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:710:ASP:OD1	1:G:711:LEU:N	2.54	0.40
1:G:871:ARG:HH11	1:G:922:LEU:HD22	1.86	0.40
1:G:1758:ARG:NH1	1:G:2037:ASP:HA	2.36	0.40
1:G:1944:GLU:HG3	1:G:2126:ARG:NH1	2.37	0.40
1:G:2155:LEU:HD12	1:G:2188:ASN:HD22	1.87	0.40
1:G:2487:GLN:HB3	1:G:2546:MET:CE	2.52	0.40
1:G:2928:LYS:HA	1:G:2928:LYS:HD3	1.85	0.40
1:J:659:TYR:CE2	1:J:661:LYS:HB2	2.56	0.40
1:J:719:LEU:C	1:J:730:VAL:HG12	2.42	0.40
1:J:1042:ALA:O	1:J:1046:LEU:HG	2.21	0.40
1:J:1101:ARG:HB3	1:J:1123:VAL:HG21	2.04	0.40
1:J:1498:GLY:HA2	1:J:1501:VAL:HG12	2.03	0.40
1:J:2121:PHE:CZ	1:J:3701:LEU:HB2	2.56	0.40
1:J:2627:VAL:HG22	1:J:2678:LEU:HD13	2.04	0.40
1:J:2991:HIS:O	1:J:2995:ILE:HG13	2.22	0.40
1:J:3021:PRO:HD3	1:J:3036:LYS:NZ	2.34	0.40
1:J:3131:TYR:CE2	1:J:3136:LEU:HG	2.56	0.40
1:J:3779:VAL:O	1:J:3783:ILE:HG13	2.21	0.40
1:J:4040:ILE:O	1:J:4044:MET:HG2	2.22	0.40
1:J:4694:ASP:N	1:J:4694:ASP:OD1	2.55	0.40
1:J:4998:LYS:HG3	1:J:5003:HIS:CE1	2.56	0.40
2:I:48:PHE:CZ	2:I:55:VAL:HG12	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100	100
1	E	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100	100
1	G	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	J	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100	100
2	A	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	D	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	H	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	I	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
3	C	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
3	F	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
3	K	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
3	M	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
All	All	18036/21084 (86%)	17584 (98%)	444 (2%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	2867	LEU
1	E	2867	LEU
1	G	2867	LEU
1	J	2867	LEU
1	B	52	THR
1	E	52	THR
1	G	52	THR
1	J	52	THR

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	3659/4270 (86%)	3650 (100%)	9 (0%)	92	94
1	E	3659/4270 (86%)	3650 (100%)	9 (0%)	92	94
1	G	3659/4270 (86%)	3650 (100%)	9 (0%)	92	94
1	J	3659/4270 (86%)	3650 (100%)	9 (0%)	92	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	A	88/88 (100%)	87 (99%)	1 (1%)	70	79
2	D	88/88 (100%)	87 (99%)	1 (1%)	70	79
2	H	88/88 (100%)	87 (99%)	1 (1%)	70	79
2	I	88/88 (100%)	87 (99%)	1 (1%)	70	79
3	C	104/114 (91%)	104 (100%)	0	100	100
3	F	104/114 (91%)	104 (100%)	0	100	100
3	K	104/114 (91%)	104 (100%)	0	100	100
3	M	104/114 (91%)	104 (100%)	0	100	100
All	All	15404/17888 (86%)	15364 (100%)	40 (0%)	90	92

All (40) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	45	ARG
1	B	886	ARG
1	B	1025	ARG
1	B	1954	ARG
1	B	2690	LYS
1	B	2738	ARG
1	B	2827	ARG
1	B	2914	LYS
1	B	3694	LYS
1	E	45	ARG
1	E	886	ARG
1	E	1025	ARG
1	E	1954	ARG
1	E	2690	LYS
1	E	2738	ARG
1	E	2827	ARG
1	E	2914	LYS
1	E	3694	LYS
1	G	45	ARG
1	G	886	ARG
1	G	1025	ARG
1	G	1954	ARG
1	G	2690	LYS
1	G	2738	ARG
1	G	2827	ARG
1	G	2914	LYS

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Mol	Chain	Res	Type
1	G	3694	LYS
1	J	45	ARG
1	J	886	ARG
1	J	1025	ARG
1	J	1954	ARG
1	J	2690	LYS
1	J	2738	ARG
1	J	2827	ARG
1	J	2914	LYS
1	J	3694	LYS
2	A	18	LYS
2	D	18	LYS
2	H	18	LYS
2	I	18	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (56) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	797	HIS
1	B	879	HIS
1	B	1203	ASN
1	B	1206	GLN
1	B	1459	GLN
1	B	1691	GLN
1	B	2268	GLN
1	B	3008	GLN
1	B	3162	GLN
1	B	3889	GLN
1	B	3927	GLN
1	E	797	HIS
1	E	879	HIS
1	E	963	ASN
1	E	1203	ASN
1	E	1206	GLN
1	E	1459	GLN
1	E	1691	GLN
1	E	2268	GLN
1	E	3162	GLN
1	E	3889	GLN
1	E	3927	GLN
1	G	797	HIS
1	G	879	HIS

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Mol	Chain	Res	Type
1	G	1203	ASN
1	G	1206	GLN
1	G	1459	GLN
1	G	1691	GLN
1	G	2268	GLN
1	G	3162	GLN
1	G	3889	GLN
1	G	3927	GLN
1	J	797	HIS
1	J	879	HIS
1	J	1203	ASN
1	J	1206	GLN
1	J	1459	GLN
1	J	1691	GLN
1	J	2268	GLN
1	J	3162	GLN
1	J	3889	GLN
1	J	3927	GLN
2	A	65	GLN
2	A	87	HIS
2	D	65	GLN
2	D	87	HIS
2	H	65	GLN
2	H	87	HIS
2	I	65	GLN
2	I	87	HIS
3	C	1	GLN
3	F	1	GLN
3	K	1	GLN
3	K	122	GLN
3	M	1	GLN
3	M	122	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	CFF	B	5103	-	8,15,15	1.03	0	8,23,23	2.47	2 (25%)
6	CFF	G	5103	-	8,15,15	2.43	3 (37%)	8,23,23	1.22	1 (12%)
5	ATP	B	5102	-	26,33,33	0.60	0	31,52,52	0.77	2 (6%)
6	CFF	J	5103	-	8,15,15	1.02	0	8,23,23	2.44	2 (25%)
6	CFF	E	5103	-	8,15,15	1.02	0	8,23,23	2.45	2 (25%)
5	ATP	J	5102	-	26,33,33	0.61	0	31,52,52	0.77	2 (6%)
5	ATP	G	5102	-	26,33,33	0.61	0	31,52,52	0.77	2 (6%)
5	ATP	E	5102	-	26,33,33	0.60	0	31,52,52	0.77	2 (6%)

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
6	CFF	B	5103	-	-	-	0/2/2/2
6	CFF	G	5103	-	-	-	0/2/2/2
5	ATP	B	5102	-	-	6/18/38/38	0/3/3/3
6	CFF	J	5103	-	-	-	0/2/2/2
6	CFF	E	5103	-	-	-	0/2/2/2
5	ATP	J	5102	-	-	6/18/38/38	0/3/3/3
5	ATP	G	5102	-	-	6/18/38/38	0/3/3/3
5	ATP	E	5102	-	-	6/18/38/38	0/3/3/3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	5103	CFF	C5-C4	4.60	1.45	1.39
6	G	5103	CFF	C5-C6	4.35	1.48	1.41
6	G	5103	CFF	C6-N1	2.26	1.41	1.38

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	5103	CFF	C5-C6-N1	-5.86	111.95	118.20
6	E	5103	CFF	C5-C6-N1	-5.82	111.99	118.20
6	J	5103	CFF	C5-C6-N1	-5.80	112.01	118.20
6	B	5103	CFF	C4-C5-C6	3.49	122.20	119.96
6	E	5103	CFF	C4-C5-C6	3.44	122.17	119.96
6	J	5103	CFF	C4-C5-C6	3.43	122.17	119.96
6	G	5103	CFF	C5-C6-N1	-2.39	115.65	118.20
5	B	5102	ATP	C5-C6-N6	2.30	123.85	120.35
5	J	5102	ATP	C5-C6-N6	2.28	123.82	120.35
5	G	5102	ATP	C5-C6-N6	2.26	123.79	120.35
5	E	5102	ATP	C5-C6-N6	2.25	123.76	120.35
5	G	5102	ATP	PB-O3B-PG	2.05	139.88	132.83
5	E	5102	ATP	PB-O3B-PG	2.04	139.84	132.83
5	J	5102	ATP	PB-O3B-PG	2.04	139.82	132.83
5	B	5102	ATP	PB-O3B-PG	2.04	139.81	132.83

There are no chirality outliers.

All (24) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	5102	ATP	PB-O3B-PG-O2G
5	B	5102	ATP	PB-O3B-PG-O3G
5	B	5102	ATP	C5'-O5'-PA-O1A
5	B	5102	ATP	C5'-O5'-PA-O2A
5	E	5102	ATP	PB-O3B-PG-O2G
5	E	5102	ATP	PB-O3B-PG-O3G
5	E	5102	ATP	C5'-O5'-PA-O1A
5	E	5102	ATP	C5'-O5'-PA-O2A
5	G	5102	ATP	PB-O3B-PG-O2G
5	G	5102	ATP	PB-O3B-PG-O3G
5	G	5102	ATP	C5'-O5'-PA-O1A
5	G	5102	ATP	C5'-O5'-PA-O2A
5	J	5102	ATP	PB-O3B-PG-O2G
5	J	5102	ATP	PB-O3B-PG-O3G

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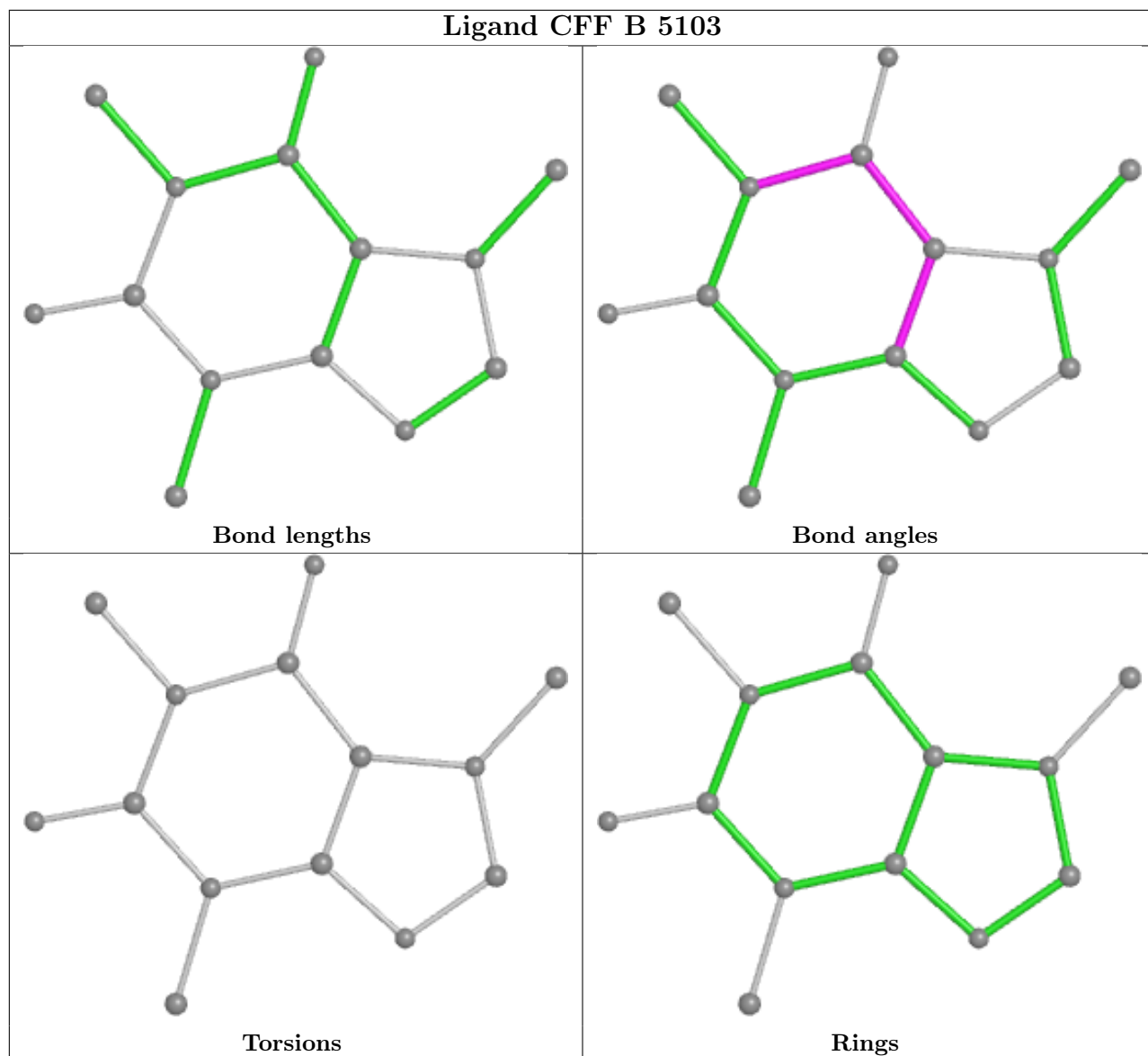
Mol	Chain	Res	Type	Atoms
5	J	5102	ATP	C5'-O5'-PA-O1A
5	J	5102	ATP	C5'-O5'-PA-O2A
5	B	5102	ATP	C5'-O5'-PA-O3A
5	E	5102	ATP	C5'-O5'-PA-O3A
5	G	5102	ATP	C5'-O5'-PA-O3A
5	J	5102	ATP	C5'-O5'-PA-O3A
5	B	5102	ATP	O4'-C4'-C5'-O5'
5	E	5102	ATP	O4'-C4'-C5'-O5'
5	G	5102	ATP	O4'-C4'-C5'-O5'
5	J	5102	ATP	O4'-C4'-C5'-O5'

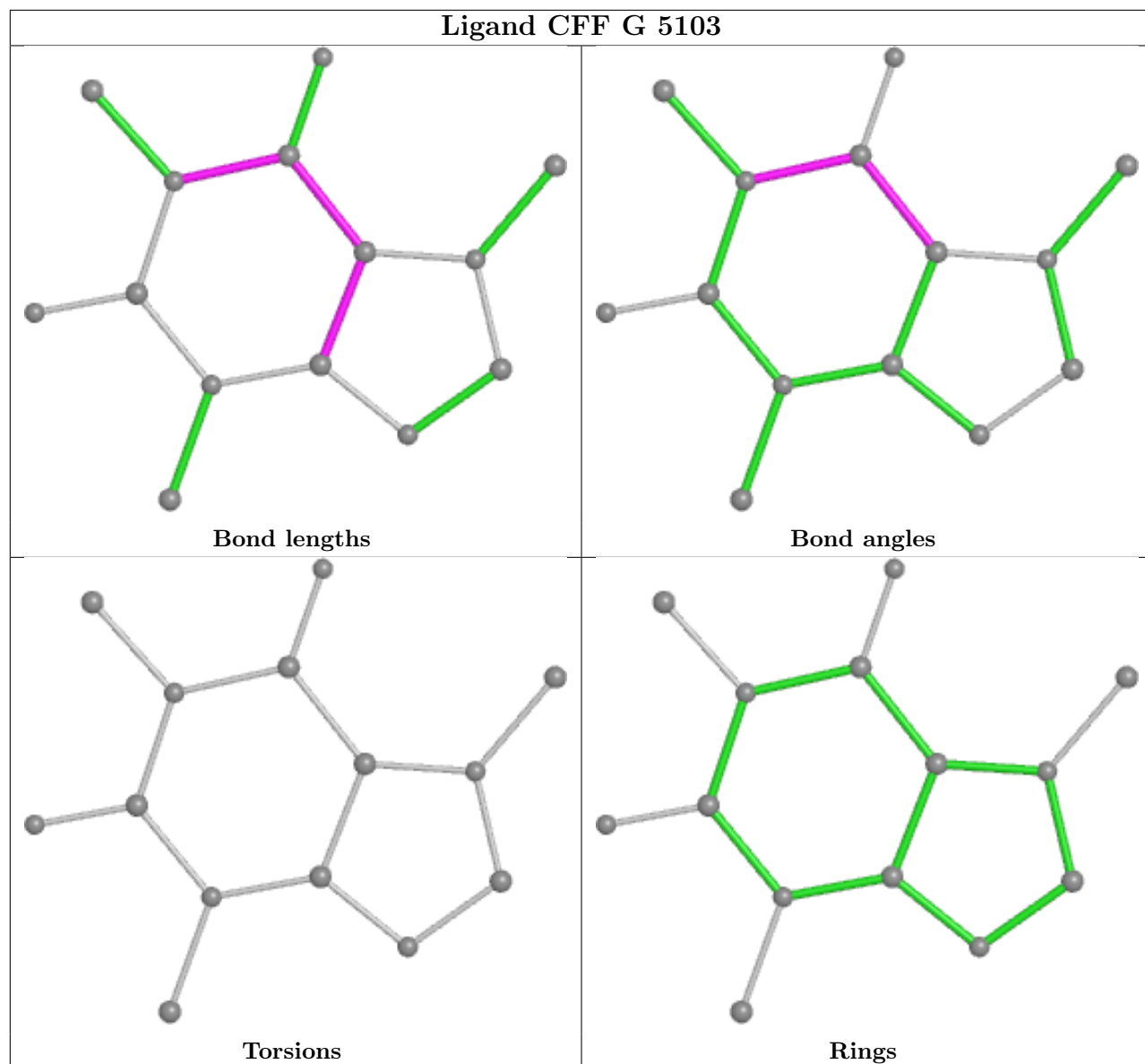
There are no ring outliers.

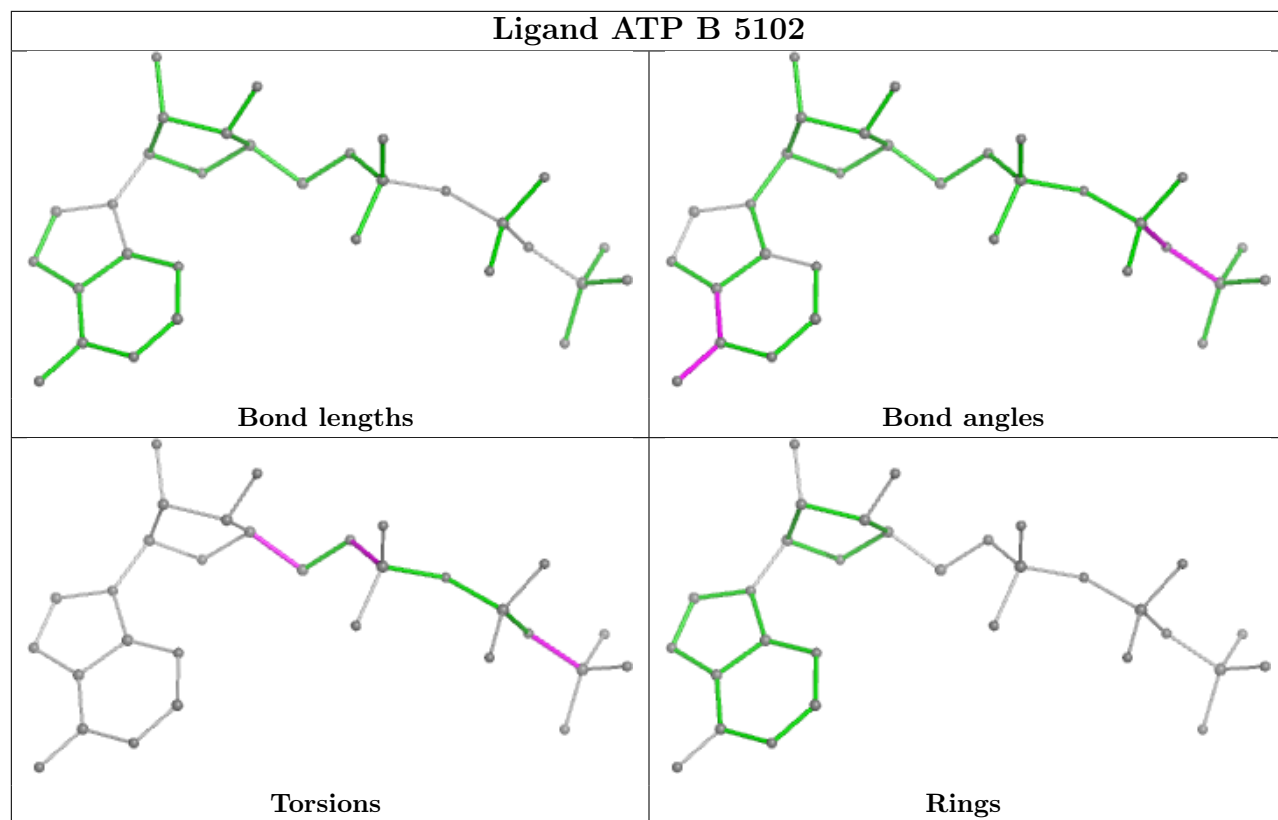
8 monomers are involved in 11 short contacts:

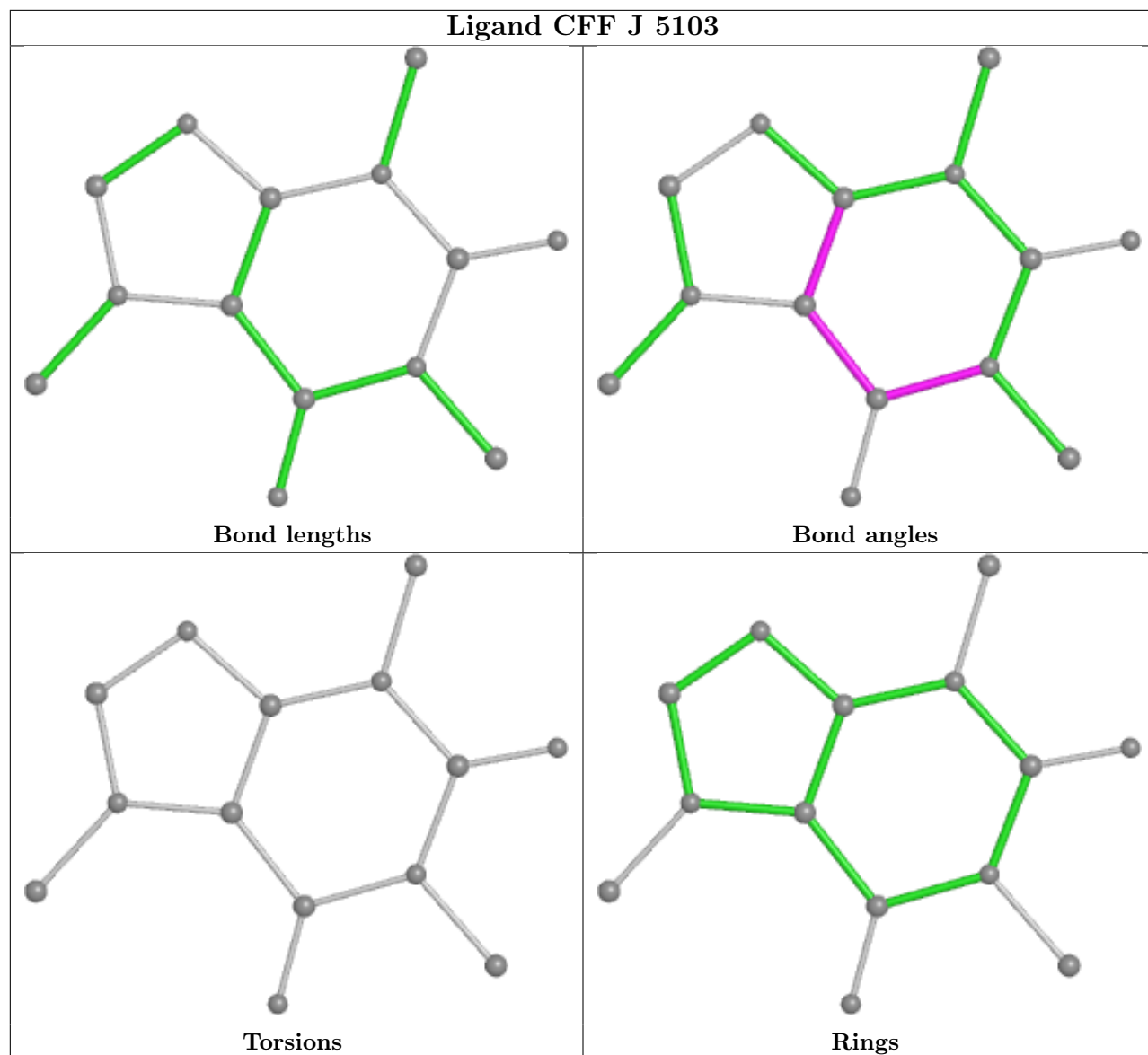
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	5103	CFF	1	0
6	G	5103	CFF	4	0
5	B	5102	ATP	1	0
6	J	5103	CFF	1	0
6	E	5103	CFF	1	0
5	J	5102	ATP	1	0
5	G	5102	ATP	1	0
5	E	5102	ATP	1	0

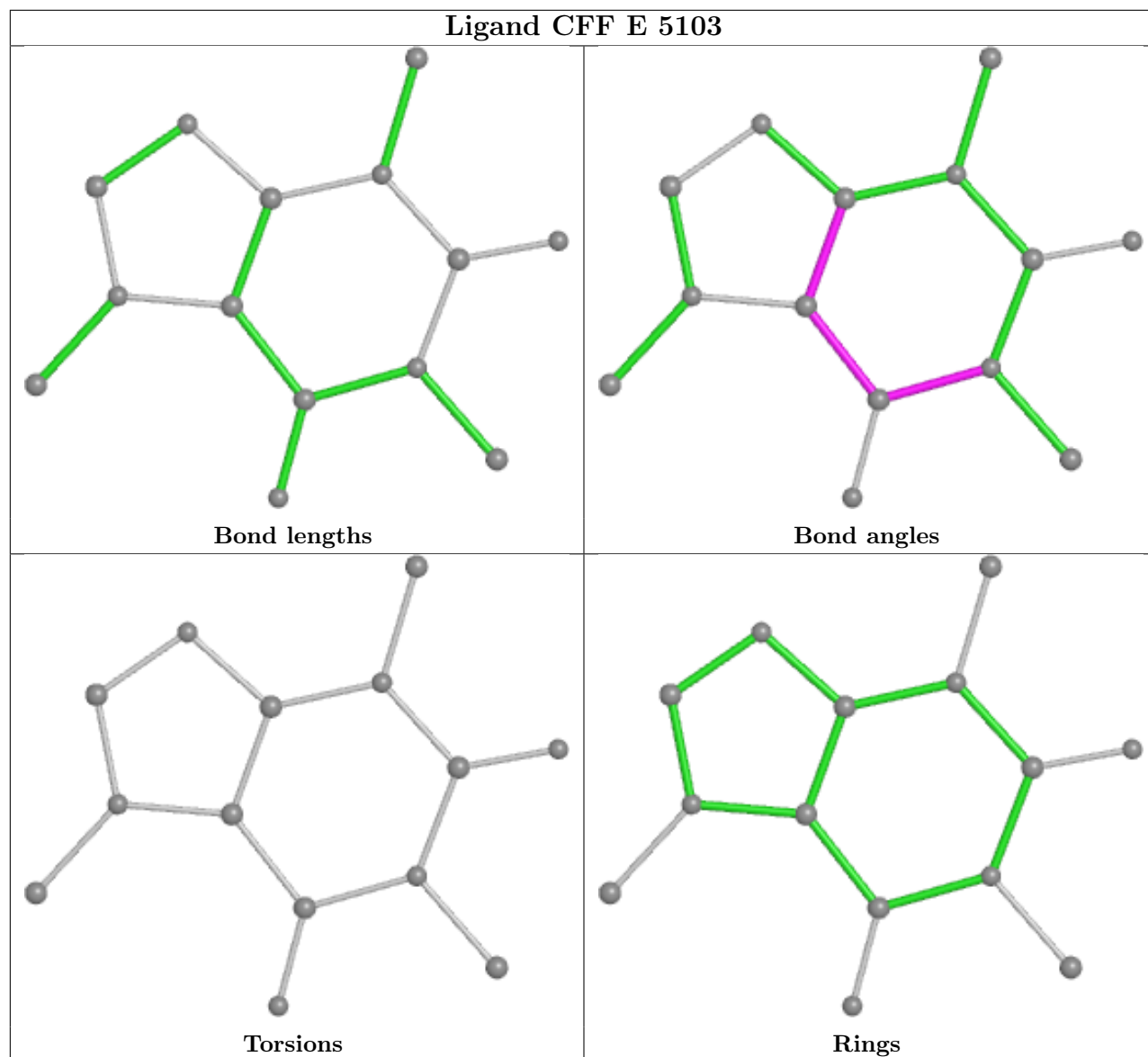
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

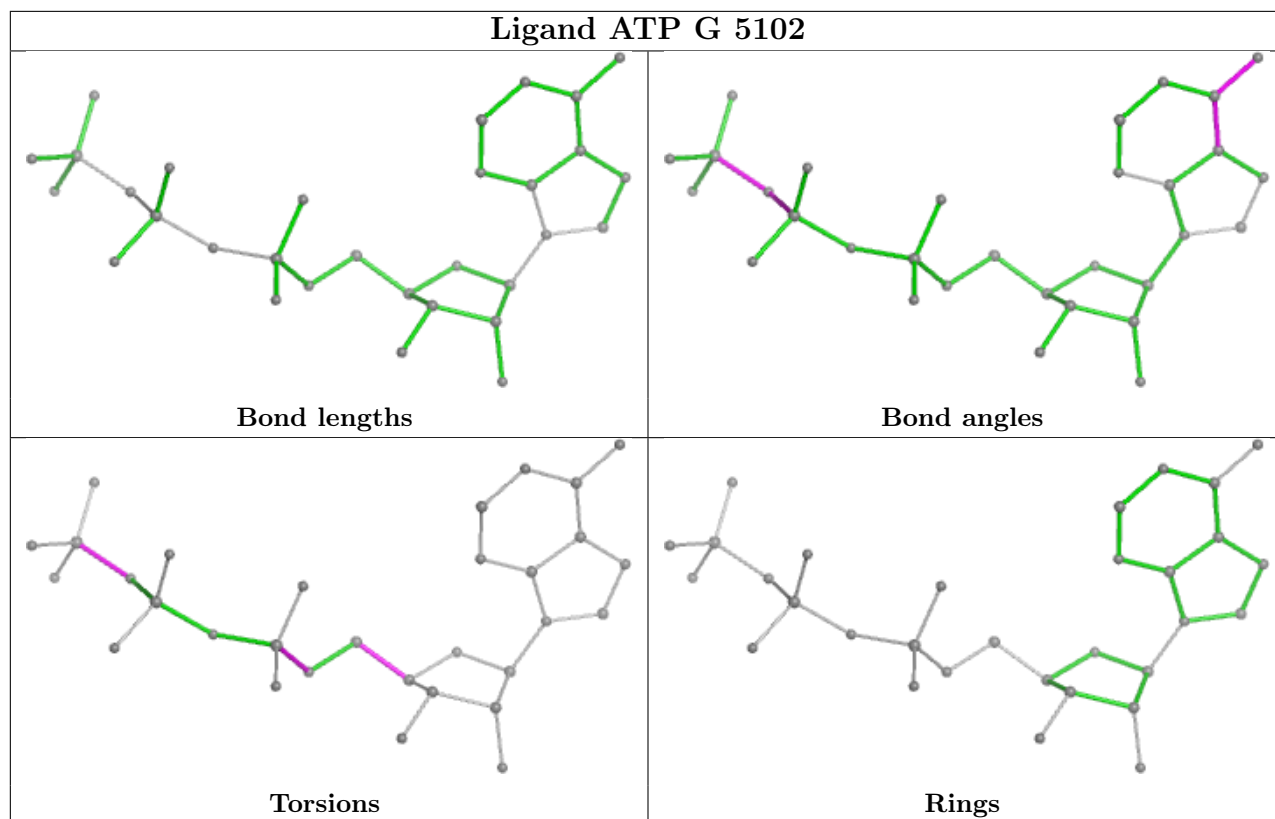
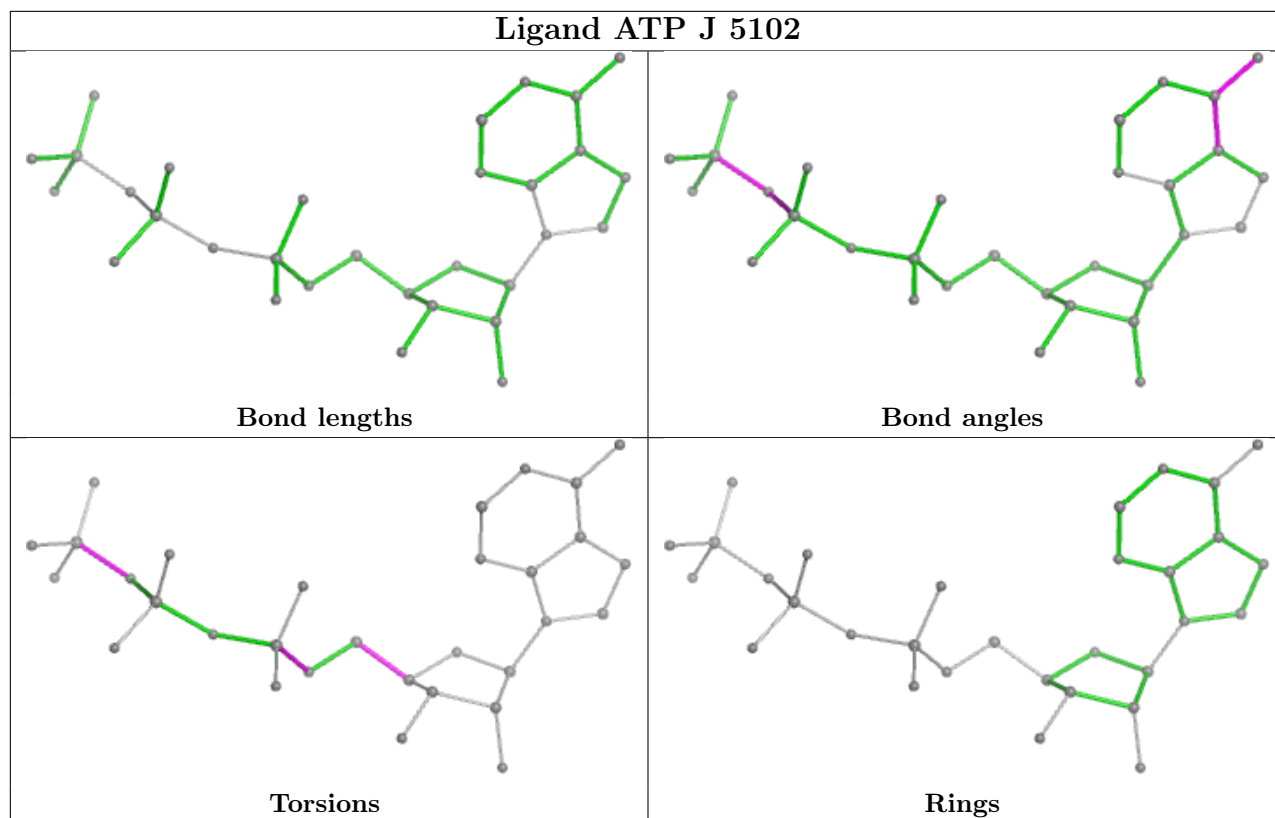


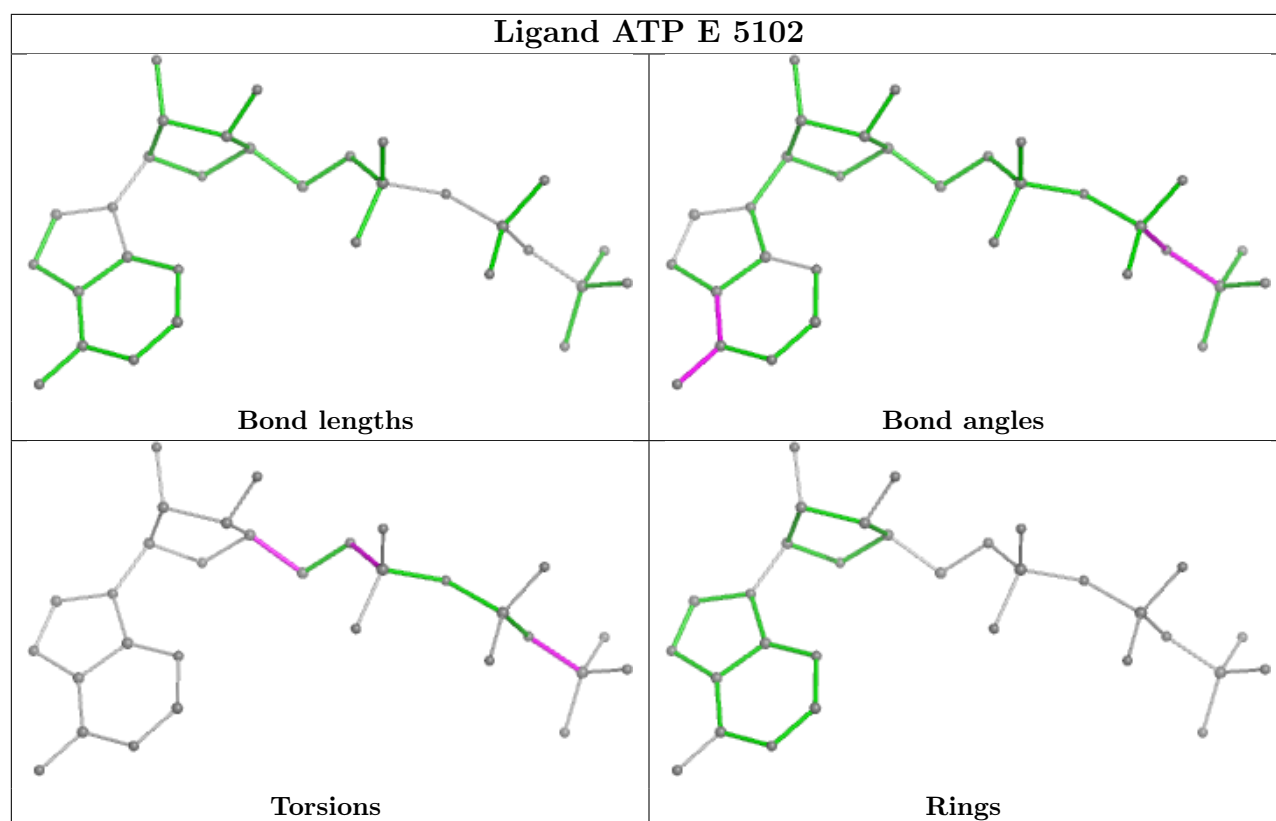












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

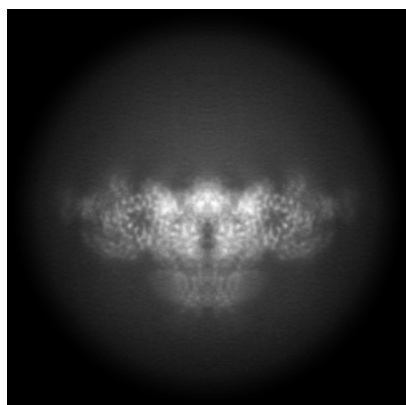
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19467. These allow visual inspection of the internal detail of the map and identification of artifacts.

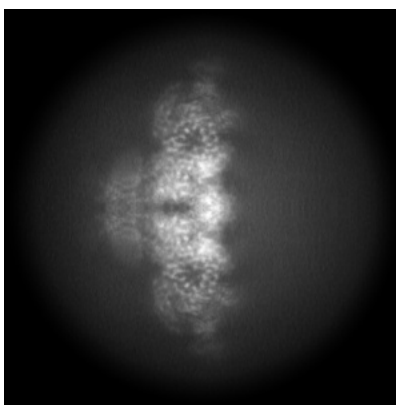
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

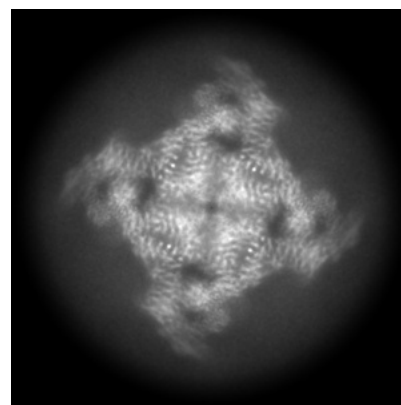
6.1.1 Primary map



X



Y

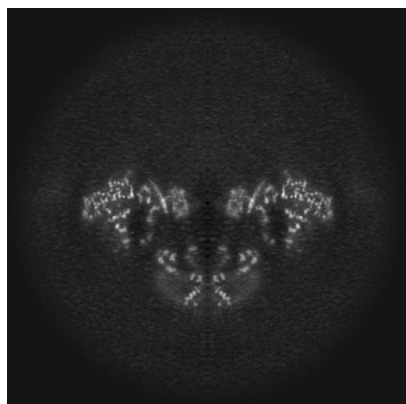


Z

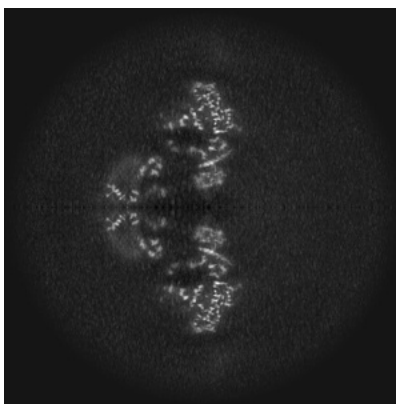
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

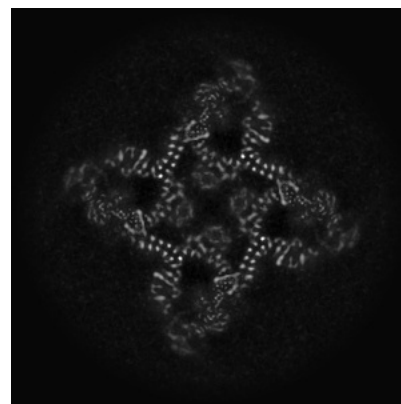
6.2.1 Primary map



X Index: 168



Y Index: 168

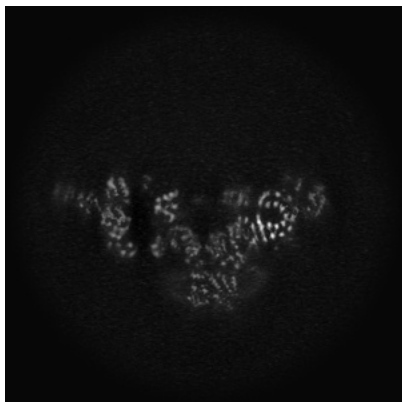


Z Index: 168

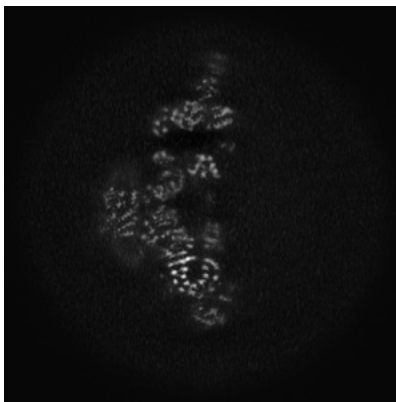
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

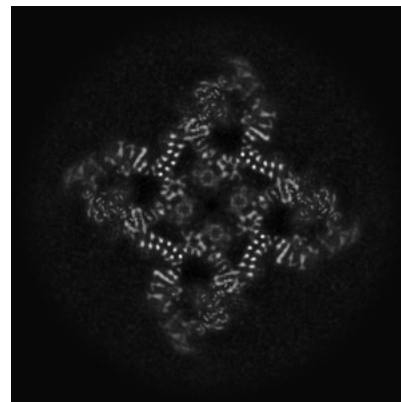
6.3.1 Primary map



X Index: 157



Y Index: 157

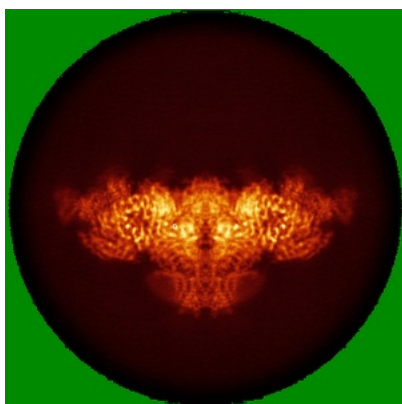


Z Index: 167

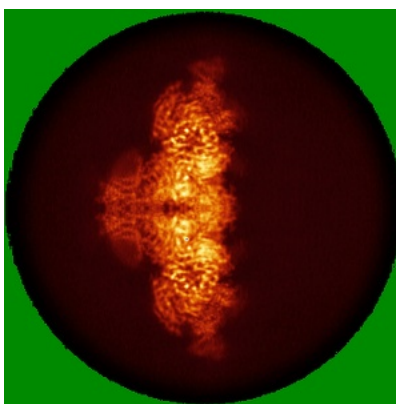
The images above show the largest variance slices of the map in three orthogonal directions.

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

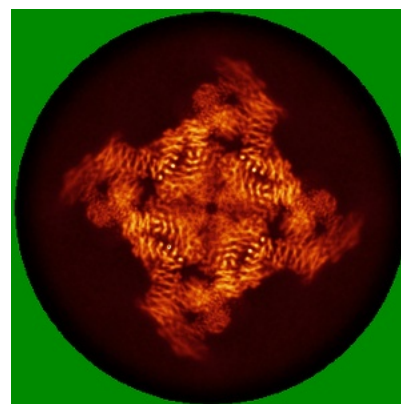
6.4.1 Primary map



X



Y

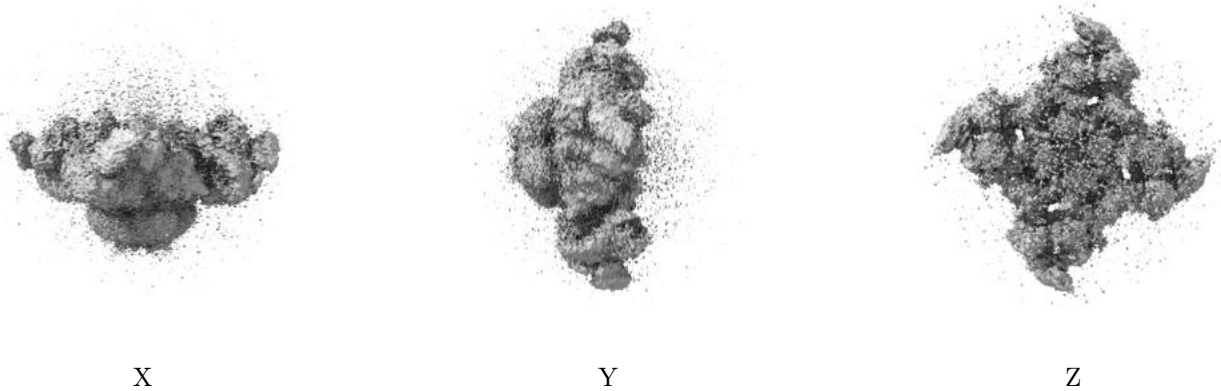


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.28. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

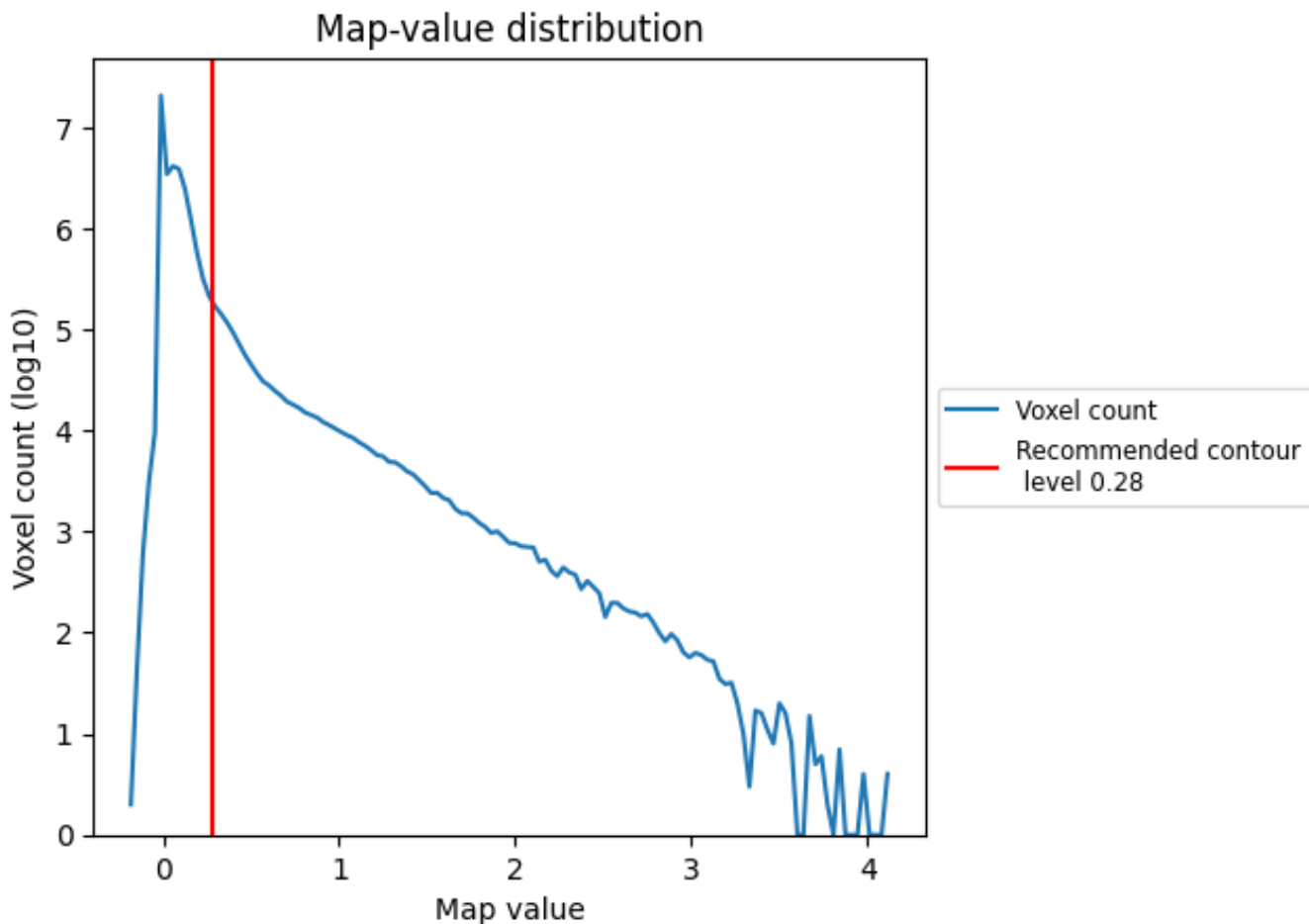
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

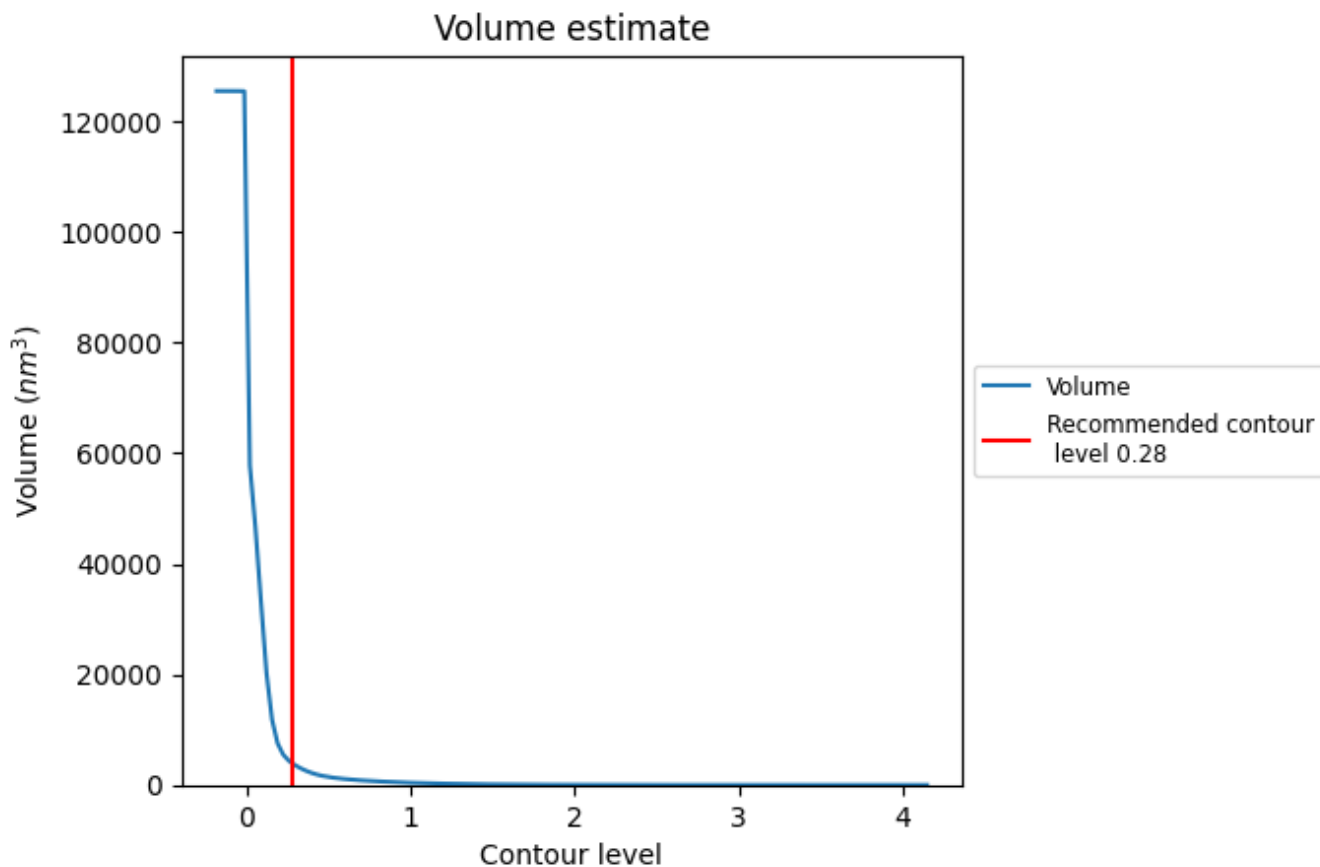
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

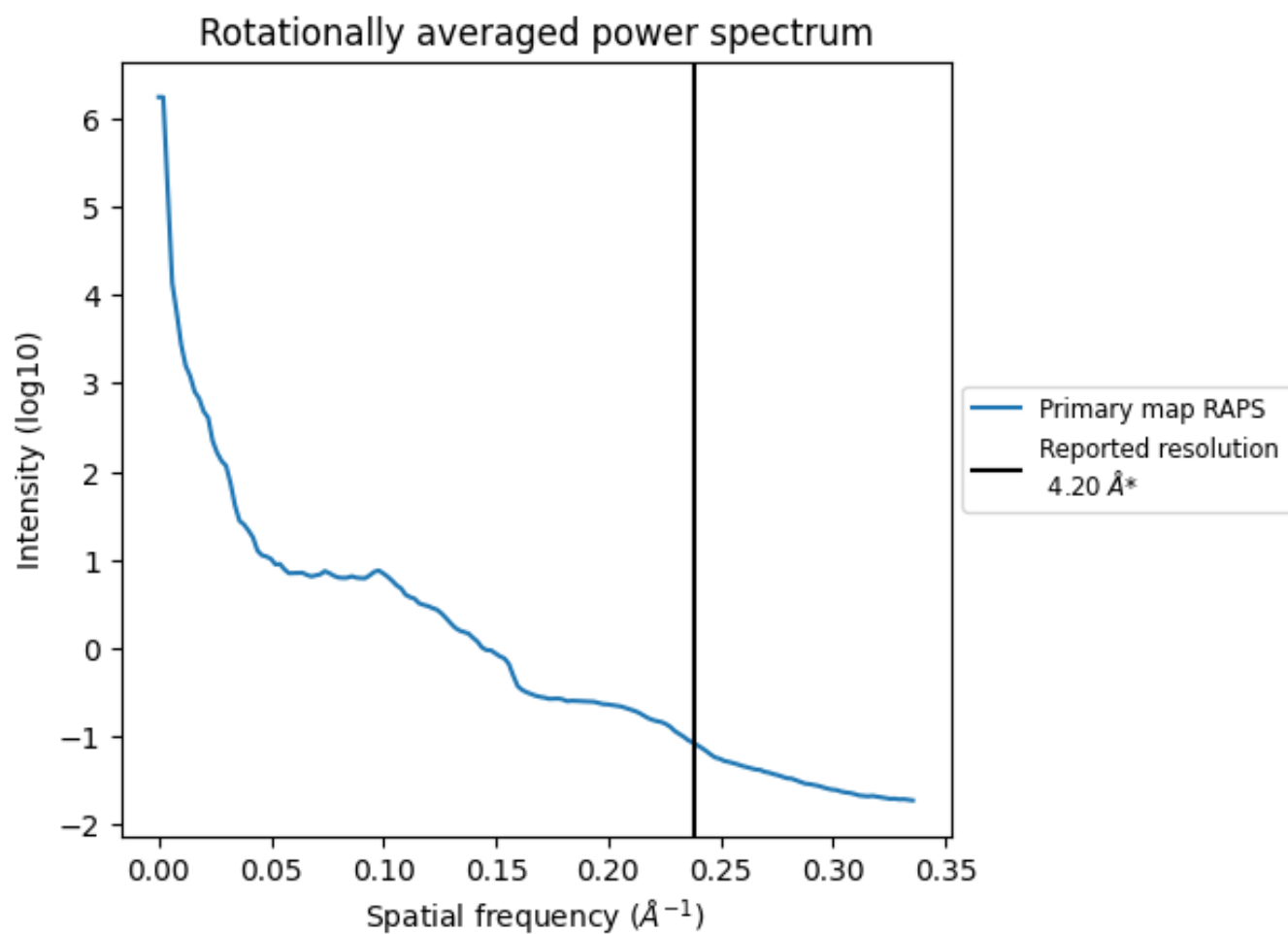
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3900 nm³; this corresponds to an approximate mass of 3523 kDa.

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

7.3 Rotationally averaged power spectrum i

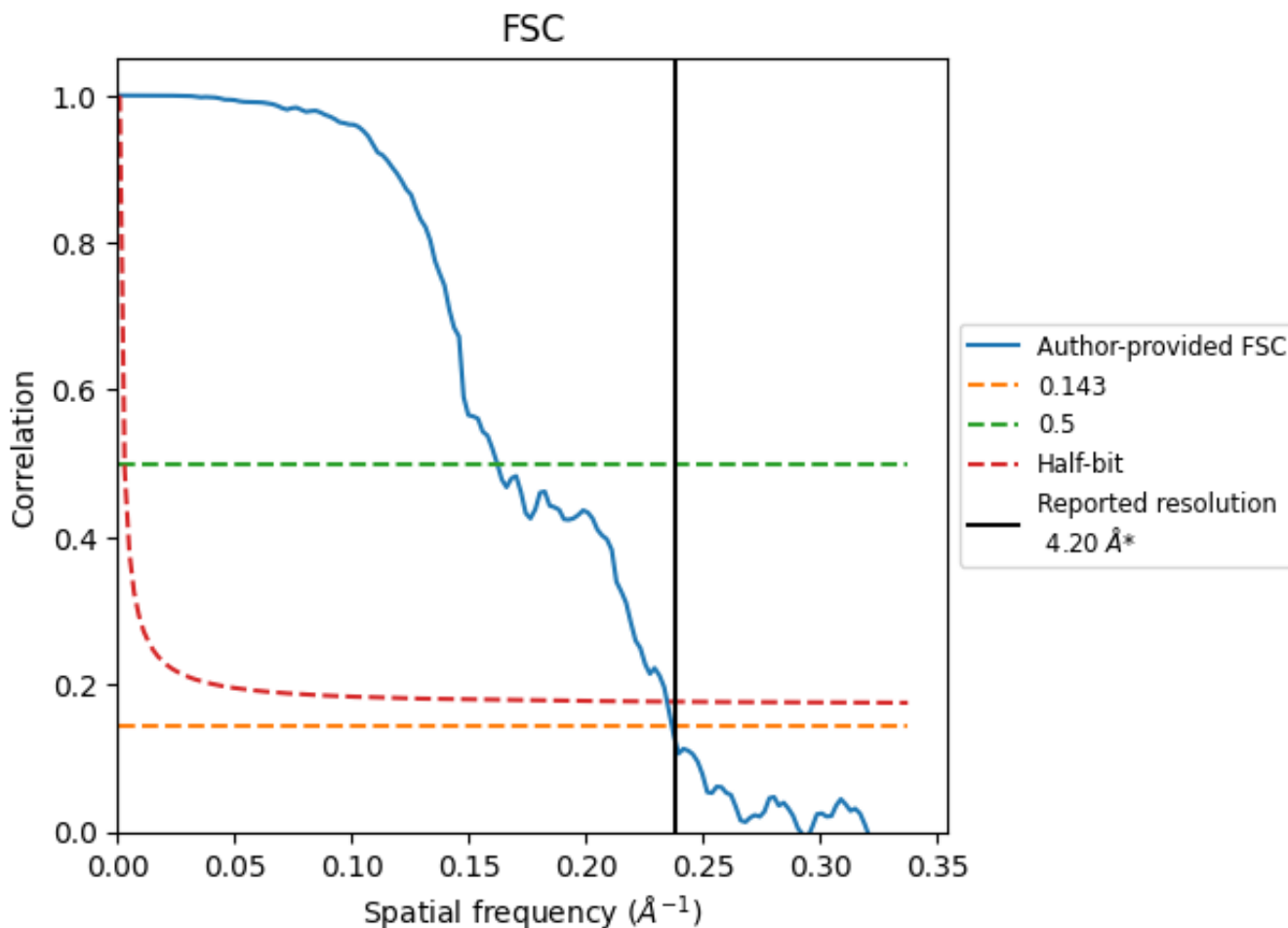


*Reported resolution corresponds to spatial frequency of 0.238 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.238 Å⁻¹

8.2 Resolution estimates [i](#)

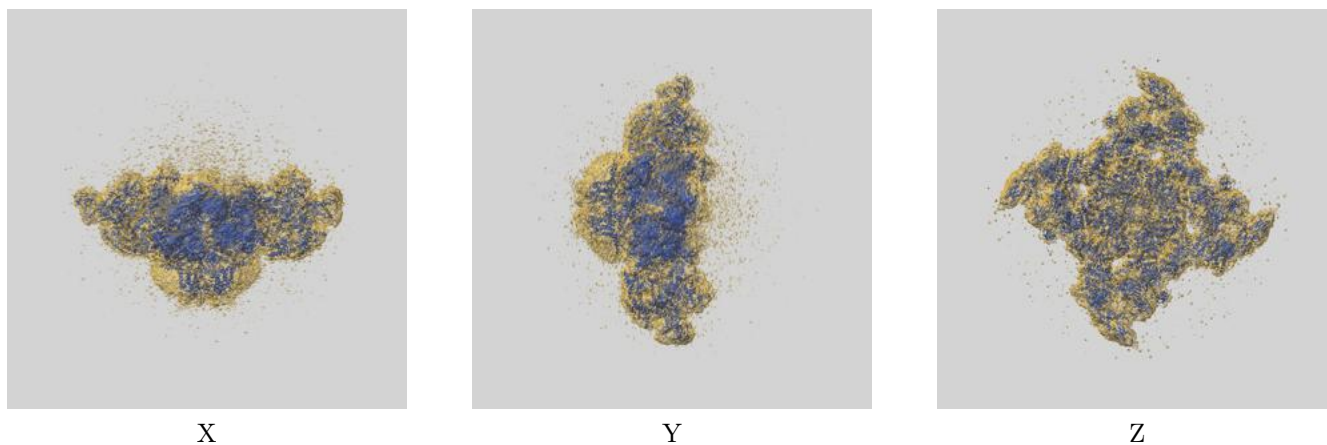
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.20	-	-
Author-provided FSC curve	4.22	6.17	4.26
Unmasked-calculated*	-	-	-

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

9 Map-model fit [i](#)

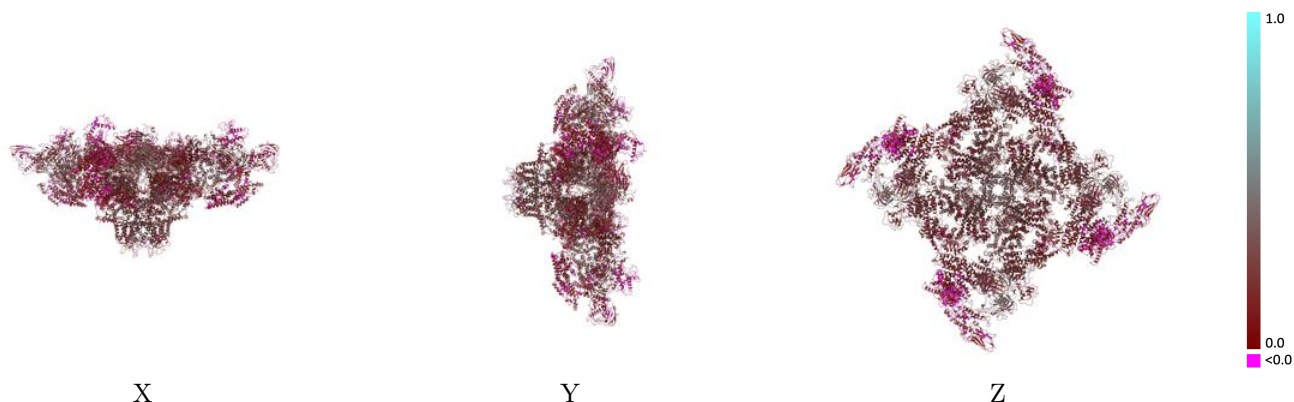
This section contains information regarding the fit between EMDB map EMD-19467 and PDB model 8RRW. Per-residue inclusion information can be found in section [3](#) on page [8](#).

9.1 Map-model overlay [i](#)



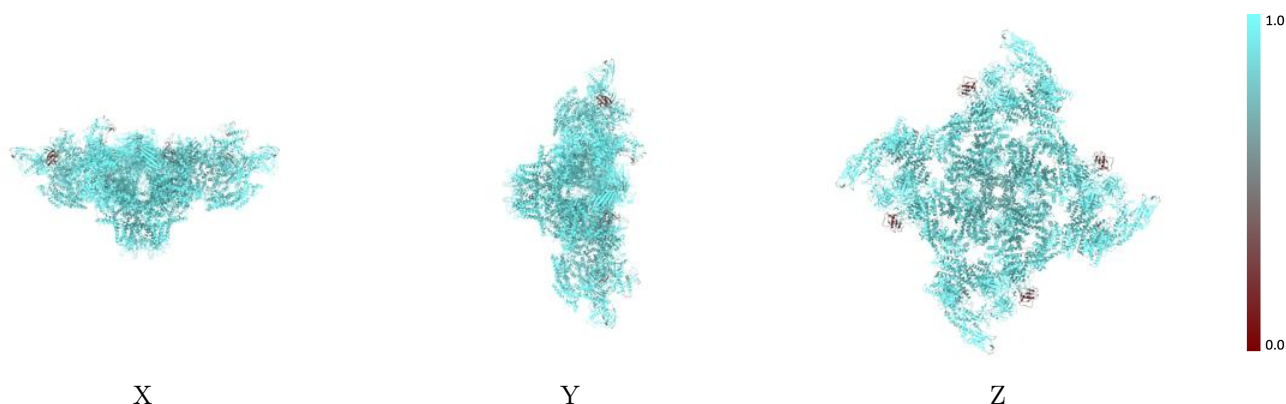
The images above show the 3D surface view of the map at the recommended contour level 0.28 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



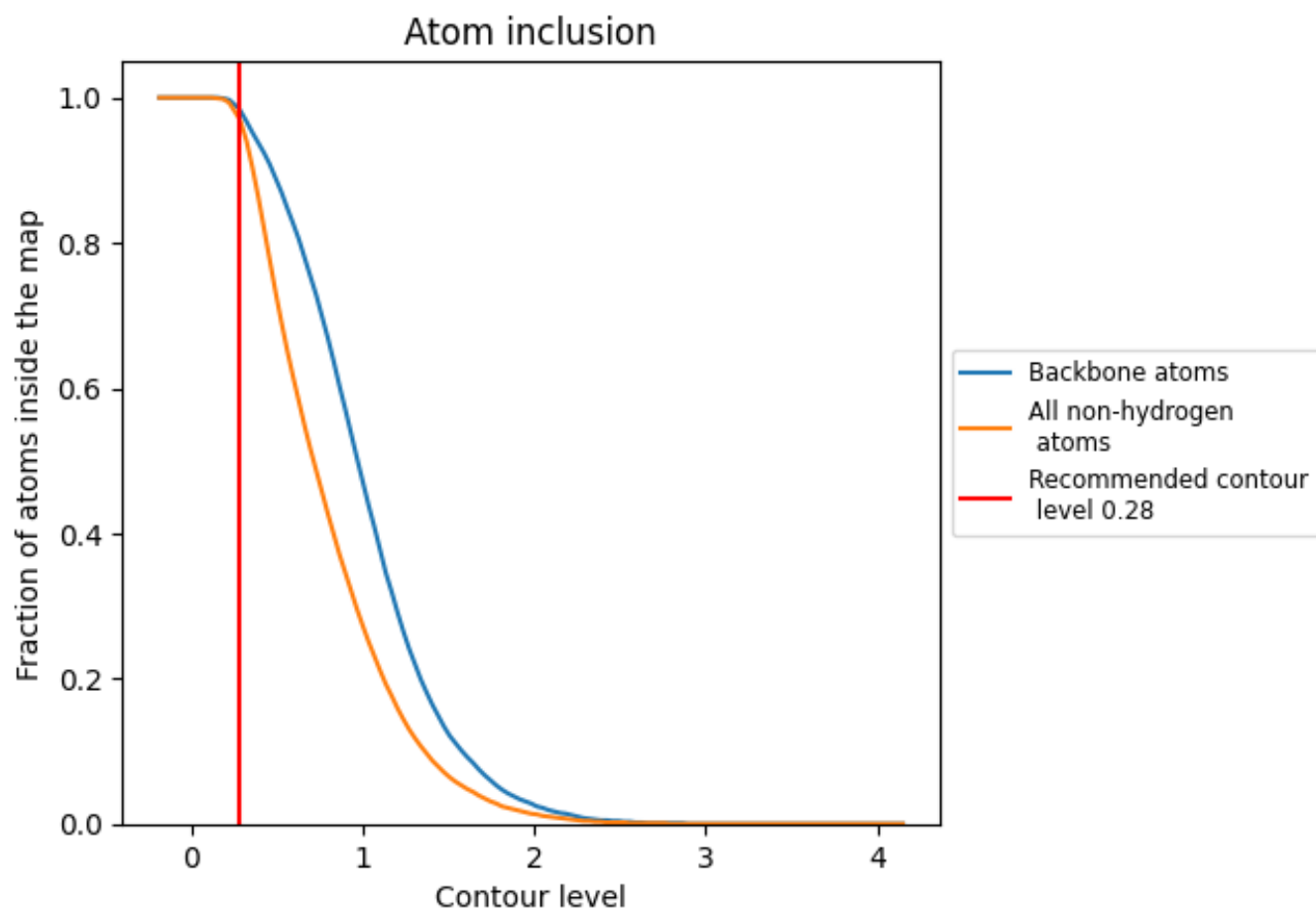
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.28).



























9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 97% 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 (0.28) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9720	 0.2010
A	 0.5280	 0.2090
B	 0.9840	 0.2030
C	 0.9250	 0.1360
D	 0.5240	 0.2080
E	 0.9840	 0.2030
F	 0.9240	 0.1370
G	 0.9840	 0.2030
H	 0.5320	 0.2130
I	 0.5300	 0.2090
J	 0.9840	 0.2030
K	 0.9250	 0.1380
M	 0.9250	 0.1360

