



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 03:04 PM UTC

PDB ID : 8RRU / pdb_00008rru
EMDB ID : EMD-19465
Title : Structure of RyR1 reconstituted into lipid liposomes in primed state in complex with FKBP and Nb9657.
Authors : Li, C.; Efremov, R.G.
Deposited on : 2024-01-23
Resolution : 4.70 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>
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The types of validation reports are described at

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

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

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

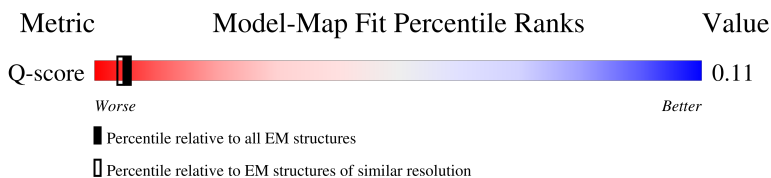
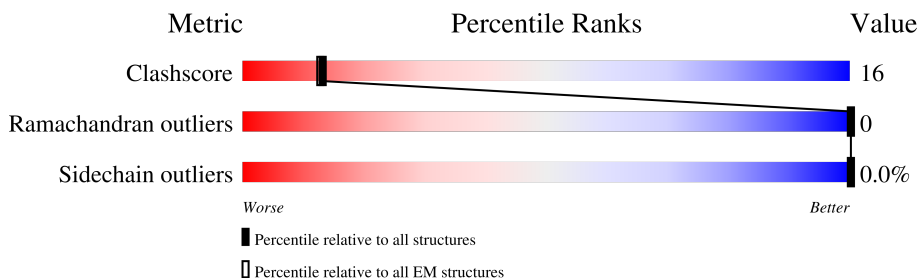
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.70 Å.

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



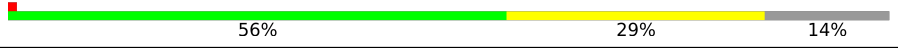
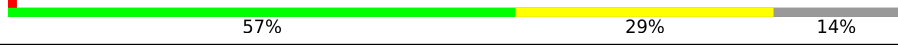
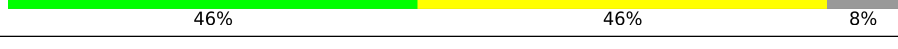
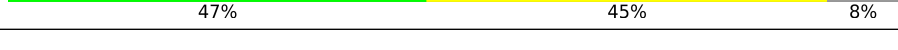
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	1989 (4.20 - 5.20)

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

Mol	Chain	Length	Quality of chain
1	A	107	
1	D	107	
1	H	107	
1	I	107	

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Mol	Chain	Length	Quality of chain
2	B	5027	
2	E	5027	
2	G	5027	
2	J	5027	
3	C	137	
3	F	137	
3	K	137	
3	M	137	

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 143907 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 Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	D	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	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 2 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	4319	Total	C	N	O	S	1	0
			34143	21748	5888	6283	224		
2	E	4319	Total	C	N	O	S	1	0
			34143	21748	5888	6283	224		
2	G	4319	Total	C	N	O	S	1	0
			34150	21752	5888	6285	225		
2	J	4319	Total	C	N	O	S	1	0
			34143	21748	5888	6283	224		

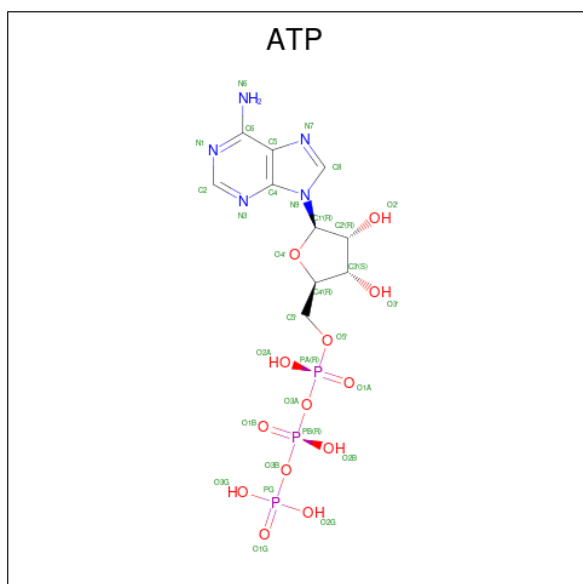
- Molecule 3 is a protein called Nanobody 9657.

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 (CCD ID: 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 (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃) (labeled as "Ligand of Interest" by depositor).



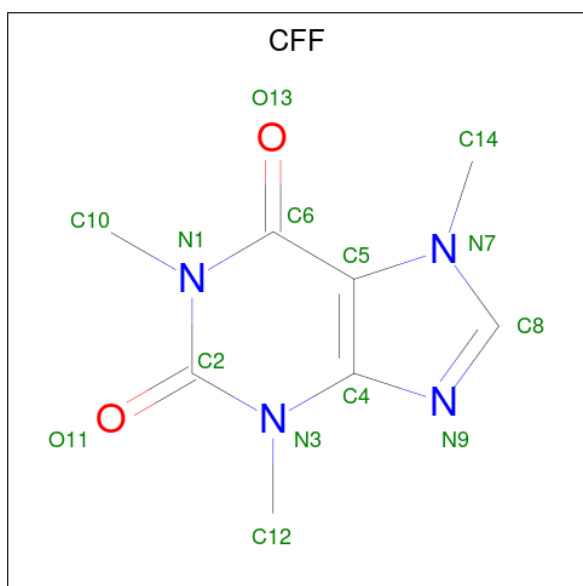
Mol	Chain	Residues	Atoms					AltConf
5	B	1	Total	C	N	O	P	0
			31	10	5	13	3	

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Mol	Chain	Residues	Atoms					AltConf
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 (CCD ID: CFF) (formula: $C_8H_{10}N_4O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
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 (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

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

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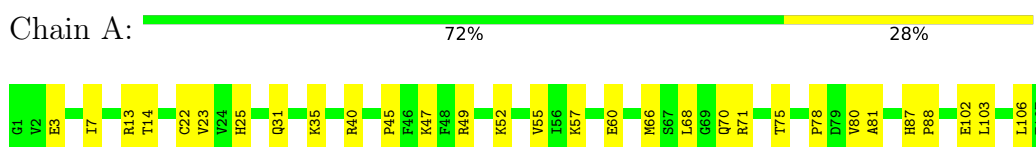
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Mol	Chain	Residues	Atoms		AltConf
7	E	1	Total 1	Ca 1	0
7	G	1	Total 1	Ca 1	0
7	J	1	Total 1	Ca 1	0

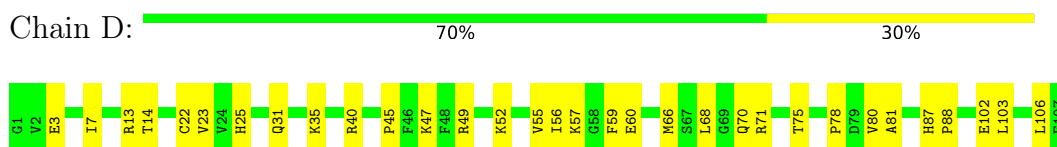
3 Residue-property plots [i](#)

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.

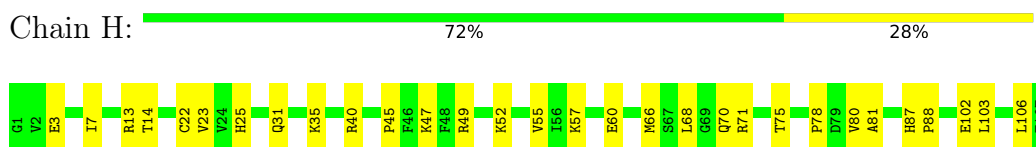
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



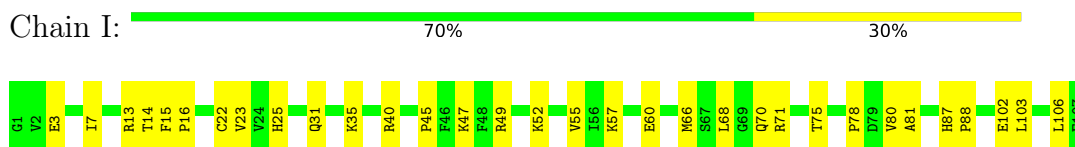
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



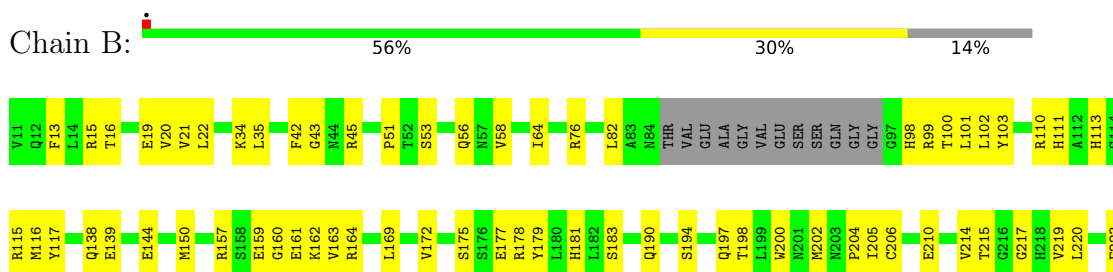
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



- Molecule 2: Ryanodine receptor 1









Y2192	Q2107	Q2036	LYS	Y1712	M1601	G1498	LEU	GLY	A1273	V1168	E1069	Q981	L874
H2193	E2108	L2039	GLU	D1713	P1609	V1501	PRO	LYS	H1274	V1168	W1069	Q981	A875
H2194	D2109	A2040	ASP	L1714	L1714	S1502	ARG	GLU	L1287	S1171	R1070	Q981	E876
P2195	Y2110		ALA	L1715	P1829	P1503	LEU	GLY	L1287	S1171	R1071	Q981	N877
N2196	Q2111	Q2045	LYS	I1718	F1612	P1504	PRO	THR	L1288	S1175	V1072	Q981	H878
L2197	S2113		GLU	H1719	V1615	G1504	HIS	ALA	L1289	E1176	I1074	Q981	I879
P2114	P2114		GLU	R1727	E1616	GLN	ASP	LYS	R1290	T1177	F1075	Q981	R886
V2117			GLU	R1727	R1618	GLY	VAL	GLU	L1291	F1179	R1076	Q981	I887
F2121	F2121		ALA	M1730	R1618	R1508	PRO	THR	S1292	F1179	A1077	Q981	W891
S2122	P1840		ALA	M1731	R1619	R1508	ALA	PRO	P1294	R180	E1078	Q981	S892
L2123	V1841		GLU	L1731	A1620	L1514	ASP	GLY	F1297	E1181	Y1081	Q981	Y893
L2124	L1849		GLY	E1733	E1621	G1518	R1421	THR	H1296	T1182	T1082	Q981	G894
H2125	V1850		LYS	Y1734	E1622	L1519	D1422	PRO	Q1299	F1188	V1083	Q981	
R2126	M1851		GLU	I1735	L1623	L1519	D1423	GLN		L1189		Q981	R897
Q2127	G1852		ASP	P1740	G1625	L1522	P1424	PRO	T1304	G1192	G1086	Q981	K901
Y2128	I1853		LEU	A1627	A1523	A1527	I1426	VAL	ALA	C1196	R1016	Q981	R902
E2133	F1854		LEU	R1743	M1527	M1527		GLU	ALA	P1196	R1017	Q981	L903
L2134	D1858		SER	P1749	K1547	K1547	T1430	ALA	ALA		F1092	Q981	H904
L2135	L1862		ARG	R1758	L1548	L1548	T1431	ALA	THR		E1093	Q981	P905
A2137	I1862		LEU	R1759	P1549	P1550	T1432	PRO	LEU	V1199	G1094	Q981	C906
L2138	M1865		SER	R1763	P1550	A1551	Y1433	VAL	ALA	G1200	V1095	Q981	L907
P2139	I1866		LEU	P1763	E1551	A1551	Y1435	ARG	PRO	D1207	M1100	Q981	H911
R2140	F1871		LEU	L1771	M1644	F1552	V1439	GLU	GLY	S1210	S912	Q981	L913
I2144	F1946		THR	R1772	C1647	V1554	Q1443	LYS	PRO	Q1220	W1104	Q981	E917
V2149	G1874		VAL	P1773	M1648	P1556	Q1443	ASP	PRO	F1223	G1116	Q981	L929
T2152	GLU		ARG	H1776	E1652	Q1559	C1447	ALA	ALA	A1227	Y1122	Q981	R930
L2156	GLU		LEU	V1783	L1653	N1560	V1448	THR	GLU		M1125	Q981	T931
E2157	GLU		LYS	L1786	R1656	V1561	W1449	THR	ASP		A1042	Q981	L932
R2163	GLU		GLU	P1787	R1661	I1562	G1451	LYS	ALA	M1230	R1128	Q981	L933
V2168	GLU		GLU	ALA	F1662	E1565	W1452	ASN	ARG	V1234	G1128	Q981	A934
Q2169	GLU		LYS	GLY		K1568	T1454	LYS	ALA	W1237	Q1130	Q981	C937
M2170	GLU		GLU	ALA	Y1670	K1570	P1455	ARG	ALA	Q1244	R1131	Q981	H938
Q2173	GLU		GLU	E1793	I1571	L1572	M1462	GLY	PRO	F1245	W1132	Q981	V939
E2174	GLU		LEU	R1797	A1672	M1573	V1474	PHE	ASP	E1246	H1133	Q981	G940
E2175	GLU		ALA	P1797	V1673	L1575	T1475	LYS	TYR	V1248	D1147	Q981	E947
N2176	ASP		ASP	P1800	L1676	L1575	M1477	LYS	GLU	P1249	V1148	Q981	L950
L2177	GLU		GLU	L1804	L1676	A1578	D1478	LYS	LEU	H1252	M1152	Q981	K951
M2178	GLU		GLU	L1804	R1680	M1579	N1482	ALA	ARG	E1256	I1153	Q981	Y959
I2179	GLU		GLU	L1808	L1694	F1580	V1483	ALA	ARG	V1257	D1154	Q981	P969
Q2180	LYS		LYS	D1809	L1694	F1580	H1483	MET	SER		L1155	Q981	L970
S2181	GLU		GLU	K1810	L1698	R1584	S1485	THR	GLY	M1260	E1157	Q981	D971
I2182	GLU		GLU	L1703	L1698	R1584	S1485	GLN	GLY	D1261	N1158	Q981	L972
G2183	ASP		ASP	P1704	L1703	R1594	C1489	PRO	TRP	P1268	T1159	Q981	R976
N2184	GLU		GLU	L1814	L1703	R1595	M1494	ALA	GLY	C1269	I1160	Q981	L977
L2185	GLU		GLU	L1815	P1704	L1598	V1495	ALA	ALA	R1271	F1162	Q981	T978
M2186	GLU		GLU	G1816	R1708	Q1598	W1496	THR	PRO	L1272	I1161	Q981	P979
K2189	GLU		GLU	V1819		L1600	G1497	ALA	GLY		L1164	Q981	A980





Chain G: 56% 29% 14%





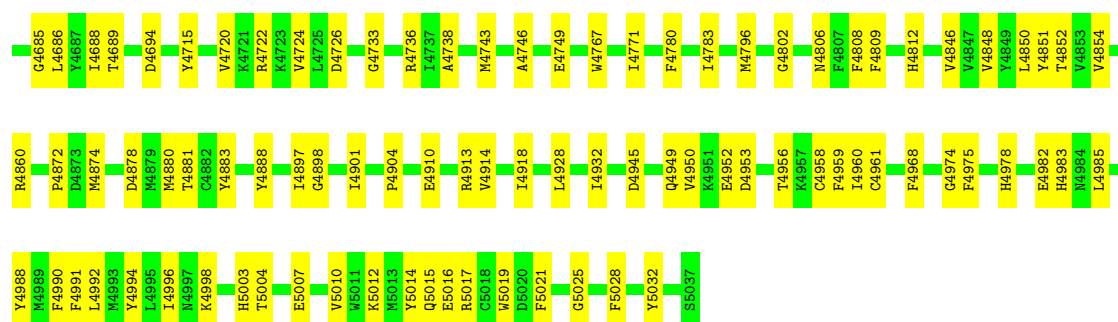




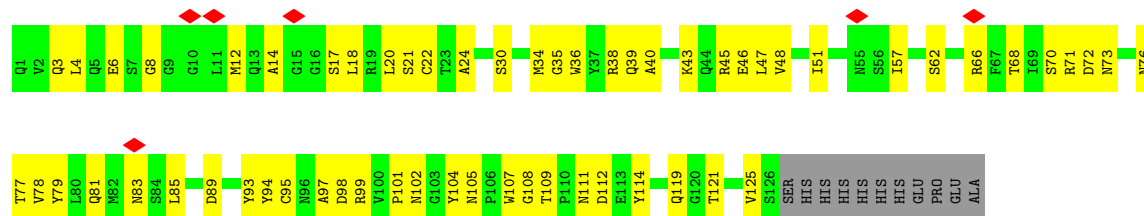


L3172	V3088	R3085	L2905	R2827	S2753	H2673	L2550	S2459	L2376	L2273			E2108	L2039
Y3173	R3093	K2996	D2909	E2828	F2754	R2676	C2555	L2460	L2377	A2277	Y2192		D2109	A2040
L3176	E3097	L3003	T2910	G2829	A2759	K2677	L2559	G2468	T2380	A2278	P2195		V2111	Q2046
T3178	S3098	P3004	T2912	E2830	T2762	F2679	T2563	I2470	E2382	S2279	N2196		Q2112	LEU
V3183			A2913	GLU		W2680		S2471	A2383	L2286	L2197		S2113	GLU
L3186	E3101	N3007	E2915	THR	K2765	D2681	T2577	L2472	R2384	A2287	W2198		P2114	GLY
R3187	D3102	C3014	E2916	GLU	W2766	S2685	W2578	F2473	R2385	A2288	A2200		L2116	GLY
V3190	E3104	L3015	K2920	LYS	A2767	S2688	M2582	L2474	P2395	Q2291	L2201		L2117	GLU
G3191	K3105			LYS	D2768	H2688		T2475	GLY	E2292	G2202		F2121	GLU
C3192	K3106	L3018	Q2924	THR	D2769		T2585	T2476	VAL	Q2293	M2203		S2122	PRO
L3194	V3107		K2924	ARG	K2770	Y2691	R2588	L2479	ARG	Q2297	H2204		L2123	GLU
A3195	L3110	K3023	K2928	LYS	T2771	E2694	R2588	D2482	ARG	W2297	M2208		L2124	GLU
R3196	R3111	S3024		ILE	Q2772	L2695		L2485	ARG	W2298	M2211		H2125	GLU
L3197	LEU	H3030	Y2935	GLN	W2773	Y2696	G2592	K2489	ARG	W2299	V2212		R2126	THR
A3198	GLY	A3031		THR	W2774	R2697	L2595		GLU	G2303	W2213		Q2127	SER
M3201	LYS	S3032	R2939	ALA	W2775	M2698			HIS	G2304	V2214		Y2128	LEU
P3202	GLN	N3033	GLY	THR	S2776	A2699	Q2599	A2492	PHE	G2305	G2215		E2133	SER
V3203	ASP	K3034	LYS	THR	Y2777	M2700	R2600	F2494	GLY	G2306	G2216		L2134	ARG
	PRO	K3035	ASP	TYR		P2701	I2603	V2495	GLU	L2307	GLY		L2135	LEU
N3214	THR	K3036	MET	ARG		C2702	E2604	P2496	PRO	L2313	GLY		R2136	ARG
Y3219	GLN	E3037	L2946	GLU	W2780	I2706	D2605		GLU	Y2318	THR		L2137	SER
K3222	VAL	S3041		GLY	W2781	A2709	M2608	H2498	PRO		LYS		L2138	LEU
S3223	VAL	L3042	S2950		D2782	L2710		K2499	GLU	T2321	L2223		P2139	LEU
P3224	G3044	G3043	K2953	Y2855	E2783	P2711	C2611	A2501	N2414	W2322	T2230		R2140	THR
R3225		K3045	R2954	R2856	K2786	Y2714	L2619	S2501		W2323	T2230		I2144	VAL
E3226	N3128		F2955	P2857	T2787	V2715	Q2620	M2502	G2419	W2324	R2234		V2149	LEU
R3227	Y3131	L3049	A2956		H2788	K2724	H2621		A2420	P2325			T2152	VAL
A3228		R3051	F2957	S2863	W2789	E2725	L2622	G2511	H2421	R2330	Y2238		L2156	LYS
I3229		V3054	G2958	G2864	R2792	LYS	L2623	G2511	Q2423	D2333	L2242		E2157	LYS
L3230	L3137		F2959		R2793	ALA	R2625	L2518	Y2426	F2334			R2163	GLU
G3231	P3138	F3057	Q2961	L2867	Y2794	THR	L2626	L2522	L2429	R2336	Q2245		V2168	LYS
L3232	V3139		Q2962	S2868	K2795	VAL	V2627	L2522	D2431		N2246		Q2169	GLU
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S3235	L3143		L2965	E2870	F2797	ALA	A2637			V2352	F2251		R2178	LEU
M3239	H3144	V3065	Y2966	L2871	S2798	GLY	Y2638	G2525	R2435	W2352	L2254		I2179	PRO
C3240	Q3145		D2967	L2878	E2799	N2734	M2639	F2526	C2435	V2353	S2255		Q2173	ALA
I3243	I3147	L3068	D2968	E2880	K2800		P2640	L2527	C2436	W2354	Y2256		E2174	ALA
P3244	I3070	H3069	I2969	N2881	D2801	R2737	L2642		A2437	R2355	L2257		E2175	GLU
V3245	L3071	I3070	S2970	Y2882	L2802	R2738	L2643	R2531	A2445	L2356	L2257		N2176	GLU
L3246	A3072	A3072	F2972	H2883	E2803	P2739	T2644	L2536	G2446	L2357	L2258		L2177	GLU
D3247	L3157	S3074	E2973	N2884		V2740	T2645	D2537	K2447	T2358			M2178	
R3248	L3158	L3075	L2974		K2809			T2538	G2448	R2359	S2261		I2182	Q2089
L3249	V3161	D3076	A2975	R2888	L2810	V2745	R2650	F2541	R2452	R2360	G2262		Q2180	L2094
M3250			H2976		L2813	L2746	Y2655	S2542	T2453	F2364	L2263		S2181	E2096
A3251	Y3166	T3079	L2977	K2891	K2814	T2748	T2643	T2543	R2454		G2264		Q2182	
D3252		V3080	E2978	Q2892	A2815	E2749	T2645	T2544	K2455	A2367	G2266		G2183	M2101
I3253	L3169		A2979	L2894		K2750	T2645	E2545	L2456	L2368	M2267		I2185	
L3256		G3084	V2980		W2819	L2751		M2546	R2458		Q2268		M2186	R2104
			V2981	H3902	W2821	D2752				S2374	P2272		Q2107	

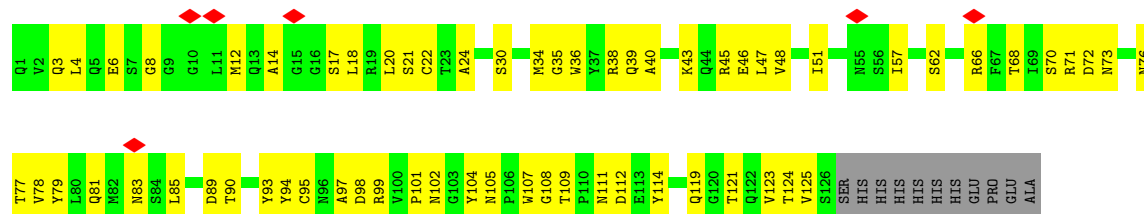




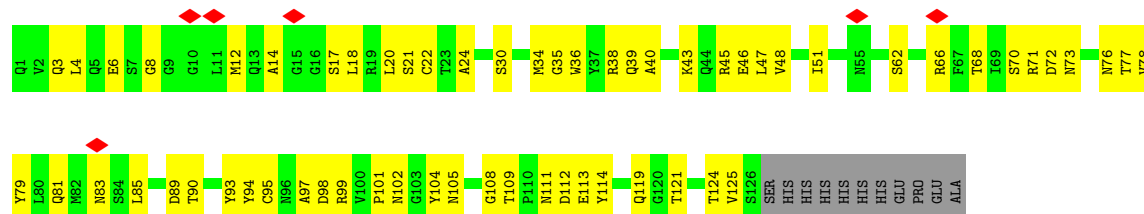
• Molecule 3: Nanobody 9657



• 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	16530	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	3.003	Depositor
Minimum map value	-0.117	Depositor
Average map value	0.044	Depositor
Map value standard deviation	0.094	Depositor
Recommended contour level	0.2	Depositor
Map size ($\text{\AA}$)	504.0, 504.0, 504.0	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.5, 1.5, 1.5	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.11	0/834	0.38	0/1123
1	D	0.11	0/834	0.38	0/1123
1	H	0.11	0/834	0.38	0/1123
1	I	0.11	0/834	0.38	0/1123
2	B	0.13	0/34916	0.37	1/47328 (0.0%)
2	E	0.13	0/34916	0.37	1/47328 (0.0%)
2	G	0.13	0/34923	0.37	1/47336 (0.0%)
2	J	0.13	0/34916	0.37	1/47328 (0.0%)
3	C	0.19	0/987	0.55	0/1340
3	F	0.19	0/987	0.55	0/1340
3	K	0.19	0/987	0.55	0/1340
3	M	0.19	0/987	0.55	0/1340
All	All	0.14	0/146955	0.37	4/199172 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1503	PRO	N-CA-CB	6.06	110.23	103.44
2	E	1503	PRO	N-CA-CB	6.06	110.23	103.44
2	G	1503	PRO	N-CA-CB	6.06	110.23	103.44
2	J	1503	PRO	N-CA-CB	6.06	110.23	103.44

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	A	818	0	824	26	0
1	D	818	0	824	28	0
1	H	818	0	824	29	0
1	I	818	0	824	28	0
2	B	34143	0	33531	1090	0
2	E	34143	0	33531	1095	0
2	G	34150	0	33542	1090	0
2	J	34143	0	33531	1085	0
3	C	967	0	916	58	0
3	F	967	0	916	59	0
3	K	967	0	916	59	0
3	M	967	0	916	56	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	0	0
6	E	14	0	10	0	0
6	G	14	0	10	0	0
6	J	14	0	10	0	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	143907	0	141183	4640	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 16.

All (4640) 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)
2:B:2175:GLU:HA	2:B:2178:MET:HE2	1.45	0.98
2:E:2175:GLU:HA	2:E:2178:MET:HE2	1.45	0.96
2:G:2175:GLU:HA	2:G:2178:MET:HE2	1.45	0.96
2:J:2175:GLU:HA	2:J:2178:MET:HE2	1.45	0.96
2:E:3416:VAL:HG11	2:E:3516:LYS:HD3	1.51	0.93
2:E:248:GLU:HB2	2:E:373:LYS:HD2	1.51	0.92
2:B:248:GLU:HB2	2:B:373:LYS:HD2	1.52	0.91
2:J:3416:VAL:HG11	2:J:3516:LYS:HD3	1.51	0.91
2:B:3416:VAL:HG11	2:B:3516:LYS:HD3	1.51	0.91
2:G:3416:VAL:HG11	2:G:3516:LYS:HD3	1.51	0.90
2:J:3889:GLN:HB2	2:J:3967:GLU:HG3	1.54	0.90
2:G:3889:GLN:HB2	2:G:3967:GLU:HG3	1.56	0.88
2:J:248:GLU:HB2	2:J:373:LYS:HD2	1.55	0.87
2:E:3889:GLN:HB2	2:E:3967:GLU:HG3	1.56	0.86
2:B:3889:GLN:HB2	2:B:3967:GLU:HG3	1.55	0.86
2:G:101:LEU:HD23	2:G:150:MET:HE1	1.58	0.86
2:B:101:LEU:HD23	2:B:150:MET:HE1	1.58	0.85
2:J:3889:GLN:HB3	2:J:3964:SER:HA	1.58	0.84
2:J:101:LEU:HD23	2:J:150:MET:HE1	1.58	0.84
2:E:101:LEU:HD23	2:E:150:MET:HE1	1.58	0.83
2:G:360:ALA:HB2	2:G:377:ILE:HG21	1.60	0.83
2:B:3889:GLN:HB3	2:B:3964:SER:HA	1.60	0.83
3:K:105:ASN:HD21	3:K:111:ASN:HB2	1.43	0.83
3:F:105:ASN:HD21	3:F:111:ASN:HB2	1.44	0.83
2:G:3889:GLN:HB3	2:G:3964:SER:HA	1.60	0.82
3:M:105:ASN:HD21	3:M:111:ASN:HB2	1.44	0.82
3:F:34:MET:HG2	3:F:71:ARG:HG3	1.62	0.81
2:G:1730:MET:HE2	2:G:1773:PRO:HD2	1.62	0.81
2:E:3889:GLN:HB3	2:E:3964:SER:HA	1.60	0.81
3:C:105:ASN:HD21	3:C:111:ASN:HB2	1.45	0.81
2:E:1160:ILE:HB	2:E:1179:PHE:HB2	1.63	0.81
2:B:1160:ILE:HB	2:B:1179:PHE:HB2	1.63	0.81
2:E:1730:MET:HE2	2:E:1773:PRO:HD2	1.62	0.81
2:B:1008:SER:HB2	2:B:1017:ARG:HE	1.47	0.80
2:J:1160:ILE:HB	2:J:1179:PHE:HB2	1.63	0.80
2:E:665:GLU:HB3	2:E:792:LEU:HB2	1.64	0.80
2:J:665:GLU:HB3	2:J:792:LEU:HB2	1.64	0.79
3:K:34:MET:HG2	3:K:71:ARG:HG3	1.62	0.79
3:M:34:MET:HG2	3:M:71:ARG:HG3	1.63	0.79
2:G:1160:ILE:HB	2:G:1179:PHE:HB2	1.63	0.79
2:G:1476:MET:H	2:G:1485:SER:HB2	1.47	0.79
2:G:3413:ILE:HA	2:G:3516:LYS:HZ3	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1730:MET:HE2	2:J:1773:PRO:HD2	1.62	0.79
2:G:360:ALA:HA	2:G:377:ILE:HD13	1.64	0.79
3:K:111:ASN:HA	3:K:114:TYR:HD2	1.47	0.79
2:G:1008:SER:HB2	2:G:1017:ARG:HE	1.47	0.79
2:B:1476:MET:H	2:B:1485:SER:HB2	1.47	0.79
2:B:1730:MET:HE2	2:B:1773:PRO:HD2	1.62	0.79
2:J:1008:SER:HB2	2:J:1017:ARG:HE	1.47	0.79
2:B:3413:ILE:HA	2:B:3516:LYS:HZ3	1.47	0.79
1:I:14:THR:HG22	1:I:106:LEU:HD23	1.65	0.78
2:E:246:TYR:HB2	2:E:373:LYS:HE3	1.64	0.78
1:A:14:THR:HG22	1:A:106:LEU:HD23	1.65	0.78
2:B:665:GLU:HB3	2:B:792:LEU:HB2	1.64	0.78
2:J:4024:VAL:HG11	2:J:4142:ASN:HB3	1.65	0.78
2:B:246:TYR:HB2	2:B:373:LYS:HE3	1.64	0.78
2:G:665:GLU:HB3	2:G:792:LEU:HB2	1.64	0.78
3:C:34:MET:HG2	3:C:71:ARG:HG3	1.63	0.78
2:G:748:LEU:HD13	2:G:755:ILE:HG12	1.66	0.78
3:C:111:ASN:HA	3:C:114:TYR:HD2	1.48	0.78
2:J:1476:MET:H	2:J:1485:SER:HB2	1.47	0.78
1:I:23:VAL:HG12	1:I:47:LYS:HG2	1.66	0.77
1:H:14:THR:HG22	1:H:106:LEU:HD23	1.65	0.77
2:E:226:HIS:HE1	2:E:229:GLU:HG2	1.50	0.77
2:E:1476:MET:H	2:E:1485:SER:HB2	1.47	0.77
1:I:88:PRO:HD2	2:J:1786:LEU:HB3	1.66	0.77
2:B:748:LEU:HD13	2:B:755:ILE:HG12	1.66	0.77
2:J:246:TYR:HB2	2:J:373:LYS:HE3	1.66	0.77
2:J:4904:PRO:HD3	2:J:4913:ARG:HH21	1.50	0.77
1:D:14:THR:HG22	1:D:106:LEU:HD23	1.65	0.77
2:G:226:HIS:HE1	2:G:229:GLU:HG2	1.50	0.77
1:A:23:VAL:HG12	1:A:47:LYS:HG2	1.66	0.77
2:B:4024:VAL:HG11	2:B:4142:ASN:HB3	1.67	0.77
2:E:1008:SER:HB2	2:E:1017:ARG:HE	1.47	0.77
1:D:23:VAL:HG12	1:D:47:LYS:HG2	1.66	0.76
2:J:748:LEU:HD13	2:J:755:ILE:HG12	1.66	0.76
3:F:111:ASN:HA	3:F:114:TYR:HD2	1.47	0.76
2:B:226:HIS:HE1	2:B:229:GLU:HG2	1.50	0.76
2:E:748:LEU:HD13	2:E:755:ILE:HG12	1.66	0.76
2:J:2277:ALA:HB2	2:J:2334:PHE:CE1	2.21	0.76
1:D:88:PRO:HD2	2:E:1786:LEU:HB3	1.68	0.76
2:G:2265:LEU:HD21	2:G:2272:PRO:HD2	1.68	0.76
2:G:4024:VAL:HG11	2:G:4142:ASN:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4097:MET:HE3	2:J:4108:ILE:HG23	1.68	0.76
2:E:4097:MET:HE3	2:E:4108:ILE:HG23	1.68	0.76
2:J:2265:LEU:HD21	2:J:2272:PRO:HD2	1.68	0.76
2:E:2277:ALA:HB2	2:E:2334:PHE:CE1	2.21	0.76
1:H:23:VAL:HG12	1:H:47:LYS:HG2	1.66	0.76
2:B:2277:ALA:HB2	2:B:2334:PHE:CE1	2.21	0.76
2:B:2336:ARG:HB2	2:B:2435:ARG:HD3	1.68	0.76
2:E:2265:LEU:HD21	2:E:2272:PRO:HD2	1.68	0.76
2:E:4904:PRO:HD3	2:E:4913:ARG:HH21	1.50	0.76
3:M:111:ASN:HA	3:M:114:TYR:HD2	1.49	0.76
2:G:2277:ALA:HB2	2:G:2334:PHE:CE1	2.21	0.75
2:B:4904:PRO:HD3	2:B:4913:ARG:HH21	1.50	0.75
2:J:226:HIS:HE1	2:J:229:GLU:HG2	1.50	0.75
2:B:3514:LEU:HD22	2:B:3518:LEU:HD22	1.68	0.75
2:E:348:VAL:HB	2:E:357:LEU:HD22	1.69	0.75
2:G:4904:PRO:HD3	2:G:4913:ARG:HH21	1.50	0.75
2:G:2336:ARG:HB2	2:G:2435:ARG:HD3	1.68	0.75
2:G:3514:LEU:HD22	2:G:3518:LEU:HD22	1.68	0.75
2:B:2265:LEU:HD21	2:B:2272:PRO:HD2	1.68	0.75
2:E:4024:VAL:HG11	2:E:4142:ASN:HB3	1.67	0.75
2:B:4027:LEU:HD13	2:B:4146:LEU:HD13	1.69	0.75
1:A:88:PRO:HD2	2:B:1786:LEU:HB3	1.66	0.75
2:E:1518:CYS:HB3	2:E:1527:MET:HE1	1.69	0.75
2:B:4097:MET:HE3	2:B:4108:ILE:HG23	1.68	0.74
2:G:1518:CYS:HB3	2:G:1527:MET:HE1	1.69	0.74
2:B:1518:CYS:HB3	2:B:1527:MET:HE1	1.69	0.74
2:E:3514:LEU:HD22	2:E:3518:LEU:HD22	1.68	0.74
2:E:4027:LEU:HD13	2:E:4146:LEU:HD13	1.69	0.74
2:J:2336:ARG:HB2	2:J:2435:ARG:HD3	1.68	0.74
2:J:348:VAL:HB	2:J:357:LEU:HD22	1.69	0.74
2:G:4097:MET:HE3	2:G:4108:ILE:HG23	1.68	0.74
2:G:4027:LEU:HD13	2:G:4146:LEU:HD13	1.69	0.74
2:B:348:VAL:HB	2:B:357:LEU:HD22	1.69	0.73
2:J:3514:LEU:HD22	2:J:3518:LEU:HD22	1.68	0.73
3:C:24:ALA:HB3	3:C:76:ASN:HB3	1.71	0.73
2:E:2336:ARG:HB2	2:E:2435:ARG:HD3	1.68	0.73
2:G:348:VAL:HB	2:G:357:LEU:HD22	1.69	0.73
2:J:2277:ALA:HB2	2:J:2334:PHE:HE1	1.54	0.73
2:E:3256:LEU:HB3	2:E:3266:MET:HE1	1.70	0.73
2:J:1518:CYS:HB3	2:J:1527:MET:HE1	1.69	0.73
2:B:2277:ALA:HB2	2:B:2334:PHE:HE1	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:940:GLY:H	2:B:1051:TYR:HA	1.54	0.73
2:G:913:LEU:HB3	2:G:917:GLU:HB2	1.71	0.73
2:E:3951:PHE:HB3	2:E:3955:MET:HE1	1.71	0.72
2:B:3951:PHE:HB3	2:B:3955:MET:HE1	1.71	0.72
2:G:3951:PHE:HB3	2:G:3955:MET:HE1	1.71	0.72
3:K:24:ALA:HB3	3:K:76:ASN:HB3	1.71	0.72
3:M:24:ALA:HB3	3:M:76:ASN:HB3	1.71	0.72
2:B:3145:GLN:HA	2:B:3196:ARG:HH21	1.55	0.72
2:J:3951:PHE:HB3	2:J:3955:MET:HE1	1.71	0.72
2:G:2277:ALA:HB2	2:G:2334:PHE:HE1	1.54	0.72
2:G:3145:GLN:HA	2:G:3196:ARG:HH21	1.55	0.72
2:J:1152:MET:HB3	2:J:1223:PHE:CE2	2.25	0.72
2:B:355:LEU:HB3	2:B:378:LEU:HB3	1.72	0.72
2:J:3256:LEU:HB3	2:J:3266:MET:HE1	1.70	0.72
2:J:4027:LEU:HD13	2:J:4146:LEU:HD13	1.71	0.72
3:F:70:SER:HB3	3:F:79:TYR:HB2	1.71	0.72
2:B:3256:LEU:HB3	2:B:3266:MET:HE1	1.70	0.72
2:J:1158:ASN:HB3	2:J:1182:ILE:H	1.54	0.72
2:E:940:GLY:H	2:E:1051:TYR:HA	1.54	0.72
2:E:1158:ASN:HB3	2:E:1182:ILE:H	1.54	0.72
2:G:247:TYR:HB2	2:G:374:LYS:HB2	1.72	0.72
2:E:1561:VAL:HG22	2:E:1562:ILE:HG23	1.72	0.71
2:E:3145:GLN:HA	2:E:3196:ARG:HH21	1.55	0.71
2:J:913:LEU:HB3	2:J:917:GLU:HB2	1.71	0.71
2:B:1152:MET:HB3	2:B:1223:PHE:CE2	2.24	0.71
3:C:70:SER:HB3	3:C:79:TYR:HB2	1.71	0.71
2:G:355:LEU:HB3	2:G:378:LEU:HB3	1.72	0.71
2:G:3256:LEU:HB3	2:G:3266:MET:HE1	1.70	0.71
2:J:3145:GLN:HA	2:J:3196:ARG:HH21	1.55	0.71
3:K:70:SER:HB3	3:K:79:TYR:HB2	1.71	0.71
2:E:1152:MET:HB3	2:E:1223:PHE:CE2	2.25	0.71
2:G:940:GLY:H	2:G:1051:TYR:HA	1.54	0.71
2:B:234:SER:HB3	2:B:242:ARG:HA	1.73	0.71
2:E:35:LEU:HG	2:E:51:PRO:HA	1.73	0.71
3:C:39:GLN:HB2	3:C:45:ARG:HE	1.56	0.71
2:E:913:LEU:HB3	2:E:917:GLU:HB2	1.71	0.71
2:E:2277:ALA:HB2	2:E:2334:PHE:HE1	1.54	0.71
2:G:1152:MET:HB3	2:G:1223:PHE:CE2	2.25	0.71
2:G:1158:ASN:HB3	2:G:1182:ILE:H	1.54	0.71
2:J:234:SER:HB3	2:J:242:ARG:HA	1.73	0.71
2:J:4945:ASP:O	2:J:4949:GLN:NE2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:39:GLN:HB2	3:F:45:ARG:HE	1.56	0.71
2:E:3261:ALA:HB3	2:E:3266:MET:HE3	1.73	0.71
3:K:39:GLN:HB2	3:K:45:ARG:HE	1.56	0.71
2:B:35:LEU:HG	2:B:51:PRO:HA	1.73	0.71
2:B:1158:ASN:HB3	2:B:1182:ILE:H	1.54	0.71
2:G:214:VAL:HG13	2:G:274:LEU:HB3	1.73	0.71
2:G:234:SER:HB3	2:G:242:ARG:HA	1.73	0.71
3:F:24:ALA:HB3	3:F:76:ASN:HB3	1.71	0.71
1:H:88:PRO:HD2	2:G:1786:LEU:HB3	1.71	0.71
2:B:2423:MET:HE2	2:B:2498:HIS:CD2	2.26	0.71
2:E:355:LEU:HB3	2:E:378:LEU:HB3	1.72	0.71
2:G:4945:ASP:O	2:G:4949:GLN:NE2	2.23	0.71
2:E:234:SER:HB3	2:E:242:ARG:HA	1.73	0.70
2:E:2288:LEU:O	2:E:3849:ARG:NH1	2.24	0.70
2:G:2288:LEU:O	2:G:3849:ARG:NH1	2.24	0.70
2:J:35:LEU:HG	2:J:51:PRO:HA	1.73	0.70
3:F:40:ALA:HB3	3:F:43:LYS:HB2	1.73	0.70
3:M:70:SER:HB3	3:M:79:TYR:HB2	1.71	0.70
2:B:1561:VAL:HG22	2:B:1562:ILE:HG23	1.72	0.70
2:B:2288:LEU:O	2:B:3849:ARG:NH1	2.24	0.70
2:E:551:LEU:HD13	2:E:589:LEU:HD11	1.73	0.70
2:J:214:VAL:HG13	2:J:274:LEU:HB3	1.73	0.70
2:J:1561:VAL:HG22	2:J:1562:ILE:HG23	1.72	0.70
2:J:940:GLY:H	2:J:1051:TYR:HA	1.54	0.70
2:B:913:LEU:HB3	2:B:917:GLU:HB2	1.71	0.70
2:B:4945:ASP:O	2:B:4949:GLN:NE2	2.23	0.70
2:G:2423:MET:HE2	2:G:2498:HIS:CD2	2.26	0.70
2:J:551:LEU:HD13	2:J:589:LEU:HD11	1.73	0.70
2:J:3999:MET:HE3	2:J:4016:LEU:HD11	1.73	0.70
2:J:4090:LYS:HE3	2:J:4117:ALA:HB2	1.74	0.70
2:B:3270:ILE:HG22	2:B:3334:TRP:HZ3	1.57	0.70
2:E:2423:MET:HE2	2:E:2498:HIS:CD2	2.26	0.70
2:E:4090:LYS:HG2	2:E:4123:ILE:HD11	1.74	0.70
2:J:355:LEU:HB3	2:J:378:LEU:HB3	1.72	0.70
2:J:2288:LEU:O	2:J:3849:ARG:NH1	2.24	0.70
2:J:2423:MET:HE2	2:J:2498:HIS:CD2	2.26	0.70
2:J:4090:LYS:HG2	2:J:4123:ILE:HD11	1.74	0.70
2:B:3261:ALA:HB3	2:B:3266:MET:HE3	1.73	0.70
2:B:3842:LEU:HB2	2:B:3929:SER:HB2	1.73	0.70
2:B:3769:ARG:O	2:B:3773:ARG:NH1	2.25	0.70
2:E:4945:ASP:O	2:E:4949:GLN:NE2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1561:VAL:HG22	2:G:1562:ILE:HG23	1.72	0.70
2:G:3270:ILE:HG22	2:G:3334:TRP:HZ3	1.57	0.70
2:J:3031:ALA:O	2:J:3036:LYS:NZ	2.24	0.70
2:B:5015:GLN:HA	2:B:5017:ARG:HH21	1.57	0.70
2:G:5015:GLN:HA	2:G:5017:ARG:HH21	1.57	0.70
2:J:3842:LEU:HB2	2:J:3929:SER:HB2	1.73	0.70
2:B:4090:LYS:HG2	2:B:4123:ILE:HD11	1.74	0.70
2:E:3270:ILE:HG22	2:E:3334:TRP:HZ3	1.57	0.70
2:E:3999:MET:HE3	2:E:4016:LEU:HD11	1.73	0.70
2:G:35:LEU:HG	2:G:51:PRO:HA	1.73	0.70
2:G:3355:HIS:HA	2:G:3359:ILE:HD12	1.74	0.70
2:G:3986:TRP:NE1	2:G:4047:MET:HB3	2.07	0.70
3:M:39:GLN:HB2	3:M:45:ARG:HE	1.56	0.70
2:G:4090:LYS:HG2	2:G:4123:ILE:HD11	1.74	0.70
2:J:3355:HIS:HA	2:J:3359:ILE:HD12	1.74	0.70
2:B:3999:MET:HE3	2:B:4016:LEU:HD11	1.73	0.69
2:G:3769:ARG:O	2:G:3773:ARG:NH1	2.25	0.69
2:J:3986:TRP:NE1	2:J:4047:MET:HB3	2.07	0.69
2:E:3842:LEU:HB2	2:E:3929:SER:HB2	1.73	0.69
2:G:3842:LEU:HB2	2:G:3929:SER:HB2	1.73	0.69
2:B:2359:ARG:HH22	2:G:177:GLU:HB2	1.56	0.69
2:B:3986:TRP:NE1	2:B:4047:MET:HB3	2.07	0.69
2:E:5015:GLN:HA	2:E:5017:ARG:HH21	1.57	0.69
2:B:3031:ALA:O	2:B:3036:LYS:NZ	2.24	0.69
2:G:4090:LYS:HE3	2:G:4117:ALA:HB2	1.74	0.69
2:J:226:HIS:CE1	2:J:229:GLU:HG2	2.28	0.69
2:J:2536:LEU:HD13	2:J:2541:PHE:HB3	1.75	0.69
3:K:40:ALA:HB3	3:K:43:LYS:HB2	1.73	0.69
2:B:177:GLU:HB2	2:E:2359:ARG:HH22	1.56	0.69
2:G:2536:LEU:HD13	2:G:2541:PHE:HB3	1.75	0.69
2:J:5015:GLN:HA	2:J:5017:ARG:HH21	1.57	0.69
3:C:40:ALA:HB3	3:C:43:LYS:HB2	1.73	0.69
2:E:214:VAL:HG13	2:E:274:LEU:HB3	1.73	0.69
2:B:4090:LYS:HE3	2:B:4117:ALA:HB2	1.74	0.69
2:E:3986:TRP:NE1	2:E:4047:MET:HB3	2.07	0.69
2:G:3261:ALA:HB3	2:G:3266:MET:HE3	1.73	0.69
2:B:226:HIS:CE1	2:B:229:GLU:HG2	2.28	0.69
2:E:2536:LEU:HD13	2:E:2541:PHE:HB3	1.75	0.69
2:G:551:LEU:HD13	2:G:589:LEU:HD11	1.73	0.69
2:G:3999:MET:HE3	2:G:4016:LEU:HD11	1.73	0.69
2:J:3261:ALA:HB3	2:J:3266:MET:HE3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3769:ARG:O	2:J:3773:ARG:NH1	2.25	0.69
2:B:2536:LEU:HD13	2:B:2541:PHE:HB3	1.75	0.69
2:E:226:HIS:CE1	2:E:229:GLU:HG2	2.28	0.69
2:E:4090:LYS:HE3	2:E:4117:ALA:HB2	1.74	0.69
3:M:40:ALA:HB3	3:M:43:LYS:HB2	1.73	0.69
2:B:551:LEU:HD13	2:B:589:LEU:HD11	1.73	0.68
2:G:2359:ARG:HH22	2:J:177:GLU:HB2	1.56	0.68
2:J:247:TYR:HB2	2:J:374:LYS:HB2	1.74	0.68
2:B:823:LEU:HD11	2:B:1626:TRP:HB3	1.75	0.68
2:B:3355:HIS:HA	2:B:3359:ILE:HD12	1.74	0.68
2:E:3355:HIS:HA	2:E:3359:ILE:HD12	1.74	0.68
2:E:3769:ARG:O	2:E:3773:ARG:NH1	2.25	0.68
2:E:4248:ALA:HA	2:E:4251:ILE:HG22	1.76	0.68
2:J:3270:ILE:HG22	2:J:3334:TRP:HZ3	1.57	0.68
2:B:214:VAL:HG13	2:B:274:LEU:HB3	1.73	0.68
2:E:247:TYR:HB2	2:E:374:LYS:HB2	1.75	0.68
2:G:226:HIS:CE1	2:G:229:GLU:HG2	2.28	0.68
2:G:358:THR:HG21	2:G:382:GLY:HA2	1.73	0.68
2:G:721:LEU:HD12	2:G:1476:MET:HE1	1.76	0.68
2:B:247:TYR:HB2	2:B:374:LYS:HB2	1.75	0.68
2:G:633:LEU:HB3	2:G:1639:LEU:HD11	1.76	0.68
2:J:2973:PHE:HA	2:J:2976:HIS:HD1	1.59	0.68
2:E:177:GLU:HB2	2:J:2359:ARG:HH22	1.57	0.68
2:G:246:TYR:CD2	2:G:373:LYS:HE3	2.29	0.68
2:J:3413:ILE:HA	2:J:3516:LYS:HZ3	1.59	0.68
2:B:4248:ALA:HA	2:B:4251:ILE:HG22	1.76	0.68
2:J:721:LEU:HD12	2:J:1476:MET:HE1	1.76	0.68
2:E:2645:THR:HB	2:E:2702:CYS:HA	1.75	0.68
2:E:2624:ARG:NH2	2:E:2915:GLU:OE2	2.27	0.67
2:G:2645:THR:HB	2:G:2702:CYS:HA	1.75	0.67
2:B:917:GLU:OE1	3:C:101:PRO:HB2	1.95	0.67
2:G:840:VAL:HG12	2:G:1199:VAL:HG12	1.77	0.67
2:G:2624:ARG:NH2	2:G:2915:GLU:OE2	2.27	0.67
2:B:633:LEU:HB3	2:B:1639:LEU:HD11	1.76	0.67
2:G:248:GLU:HB2	2:G:373:LYS:CD	2.25	0.67
2:J:823:LEU:HD11	2:J:1626:TRP:HB3	1.75	0.67
2:J:2645:THR:HB	2:J:2702:CYS:HA	1.76	0.67
2:E:633:LEU:HB3	2:E:1639:LEU:HD11	1.76	0.67
2:G:917:GLU:OE1	3:M:101:PRO:HB2	1.94	0.67
2:G:2265:LEU:O	2:G:2268:GLN:HG3	1.94	0.67
2:J:4081:VAL:HG12	2:J:4088:ILE:HD13	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2645:THR:HB	2:B:2702:CYS:HA	1.75	0.67
2:B:2902:HIS:HB3	2:B:2905:LEU:HG	1.76	0.67
2:G:1733:GLU:HG2	2:G:2201:LEU:HD23	1.77	0.67
2:G:4081:VAL:HG12	2:G:4088:ILE:HD13	1.76	0.67
2:J:2196:ASN:OD1	2:J:2199:ARG:NH2	2.28	0.67
2:B:840:VAL:HG12	2:B:1199:VAL:HG12	1.77	0.67
2:B:2196:ASN:OD1	2:B:2199:ARG:NH2	2.28	0.67
2:E:721:LEU:HD12	2:E:1476:MET:HE1	1.76	0.67
2:E:2902:HIS:HB3	2:E:2905:LEU:HG	1.76	0.67
2:J:2265:LEU:O	2:J:2268:GLN:HG3	1.94	0.67
2:B:4081:VAL:HG12	2:B:4088:ILE:HD13	1.76	0.67
2:G:2973:PHE:HA	2:G:2976:HIS:HD1	1.59	0.67
2:E:823:LEU:HD11	2:E:1626:TRP:HB3	1.75	0.67
2:E:2117:VAL:HG11	2:E:3700:GLN:HE22	1.60	0.67
2:E:2196:ASN:OD1	2:E:2199:ARG:NH2	2.28	0.67
2:G:823:LEU:HD11	2:G:1626:TRP:HB3	1.75	0.67
2:B:2117:VAL:HG11	2:B:3700:GLN:HE22	1.60	0.67
2:B:2265:LEU:O	2:B:2268:GLN:HG3	1.94	0.67
2:B:2624:ARG:NH2	2:B:2915:GLU:OE2	2.27	0.67
2:E:2973:PHE:HA	2:E:2976:HIS:HD1	1.59	0.67
2:E:3413:ILE:HA	2:E:3516:LYS:HZ3	1.59	0.67
2:J:1733:GLU:HG2	2:J:2201:LEU:HD23	1.77	0.67
2:J:2624:ARG:NH2	2:J:2915:GLU:OE2	2.27	0.67
2:B:2973:PHE:HA	2:B:2976:HIS:HD1	1.59	0.67
2:J:840:VAL:HG12	2:J:1199:VAL:HG12	1.77	0.67
2:B:1163:THR:HG22	2:B:1168:VAL:HA	1.76	0.66
2:E:2265:LEU:O	2:E:2268:GLN:HG3	1.94	0.66
2:G:1163:THR:HG22	2:G:1168:VAL:HA	1.76	0.66
2:G:4248:ALA:HA	2:G:4251:ILE:HG22	1.76	0.66
2:B:2423:MET:HE1	2:B:2494:PHE:HA	1.76	0.66
2:J:1163:THR:HG22	2:J:1168:VAL:HA	1.76	0.66
2:E:840:VAL:HG12	2:E:1199:VAL:HG12	1.77	0.66
2:G:3031:ALA:O	2:G:3036:LYS:NZ	2.24	0.66
2:G:2196:ASN:OD1	2:G:2199:ARG:NH2	2.28	0.66
2:G:2970:SER:HA	2:G:2973:PHE:CE2	2.31	0.66
2:J:633:LEU:HB3	2:J:1639:LEU:HD11	1.76	0.66
1:A:71:ARG:HG3	1:A:102:GLU:HB2	1.78	0.66
1:H:71:ARG:HG3	1:H:102:GLU:HB2	1.78	0.66
2:B:2970:SER:HA	2:B:2973:PHE:CE2	2.31	0.66
2:J:2970:SER:HA	2:J:2973:PHE:CE2	2.31	0.66
2:B:3316:LEU:HD22	2:B:3346:VAL:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2423:MET:HE1	2:J:2494:PHE:HA	1.76	0.66
2:B:1733:GLU:HG2	2:B:2201:LEU:HD23	1.77	0.66
2:E:1291:LEU:HD13	2:E:1595:LEU:HD11	1.78	0.66
2:E:3316:LEU:HD22	2:E:3346:VAL:HA	1.78	0.66
2:J:1291:LEU:HD13	2:J:1595:LEU:HD11	1.78	0.66
1:I:71:ARG:HG3	1:I:102:GLU:HB2	1.78	0.66
2:B:721:LEU:HD12	2:B:1476:MET:HE1	1.76	0.66
2:B:2182:ILE:HG22	2:B:2186:MET:HE1	1.78	0.66
2:E:3031:ALA:O	2:E:3036:LYS:NZ	2.24	0.66
2:G:3936:TYR:HA	2:J:76:ARG:HH22	1.61	0.66
2:J:2182:ILE:HG22	2:J:2186:MET:HE1	1.78	0.66
1:D:71:ARG:HG3	1:D:102:GLU:HB2	1.78	0.66
2:B:2321:ILE:HG21	2:B:2422:ILE:HD11	1.78	0.66
2:B:3334:TRP:CD1	2:B:3337:ARG:HB2	2.31	0.66
2:J:3316:LEU:HD22	2:J:3346:VAL:HA	1.78	0.66
2:E:1163:THR:HG22	2:E:1168:VAL:HA	1.76	0.65
2:E:2321:ILE:HG21	2:E:2422:ILE:HD11	1.78	0.65
2:G:2117:VAL:HG11	2:G:3700:GLN:HE22	1.60	0.65
2:G:2867:LEU:HD21	2:G:2871:LEU:HB3	1.78	0.65
2:J:4248:ALA:HA	2:J:4251:ILE:HG22	1.76	0.65
2:G:2902:HIS:HB3	2:G:2905:LEU:HG	1.76	0.65
2:J:2902:HIS:HB3	2:J:2905:LEU:HG	1.76	0.65
2:E:2423:MET:HE1	2:E:2494:PHE:HA	1.76	0.65
2:J:917:GLU:OE1	3:K:101:PRO:HB2	1.96	0.65
2:E:2182:ILE:HG22	2:E:2186:MET:HE1	1.78	0.65
2:G:2182:ILE:HG22	2:G:2186:MET:HE1	1.78	0.65
2:J:2117:VAL:HG11	2:J:3700:GLN:HE22	1.60	0.65
2:G:2423:MET:HE1	2:G:2494:PHE:HA	1.76	0.65
2:E:1733:GLU:HG2	2:E:2201:LEU:HD23	1.77	0.65
2:J:2867:LEU:HD21	2:J:2871:LEU:HB3	1.78	0.65
2:E:917:GLU:OE1	3:F:101:PRO:HB2	1.96	0.65
2:E:4081:VAL:HG12	2:E:4088:ILE:HD13	1.76	0.65
2:B:1291:LEU:HD13	2:B:1595:LEU:HD11	1.78	0.65
2:J:2321:ILE:HG21	2:J:2422:ILE:HD11	1.79	0.65
2:E:76:ARG:HH22	2:J:3936:TYR:HA	1.61	0.65
2:E:2867:LEU:HD21	2:E:2871:LEU:HB3	1.78	0.65
2:B:1095:VAL:HB	2:B:1199:VAL:HG23	1.79	0.64
2:B:2305:CYS:HB2	2:B:2324:ASN:HB3	1.79	0.64
2:B:2867:LEU:HD21	2:B:2871:LEU:HB3	1.78	0.64
2:G:1291:LEU:HD13	2:G:1595:LEU:HD11	1.78	0.64
2:G:2321:ILE:HG21	2:G:2422:ILE:HD11	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3334:TRP:CD1	2:G:3337:ARG:HB2	2.31	0.64
3:K:111:ASN:HA	3:K:114:TYR:CD2	2.31	0.64
2:B:76:ARG:HH22	2:E:3936:TYR:HA	1.62	0.64
2:E:3334:TRP:CD1	2:E:3337:ARG:HB2	2.31	0.64
2:G:3316:LEU:HD22	2:G:3346:VAL:HA	1.78	0.64
3:F:22:CYS:HB3	3:F:78:VAL:HB	1.79	0.64
3:K:22:CYS:HB3	3:K:78:VAL:HB	1.79	0.64
2:E:2604:GLU:HB3	2:E:2639:MET:HE2	1.80	0.64
2:E:2970:SER:HA	2:E:2973:PHE:CE2	2.31	0.64
2:J:3334:TRP:CD1	2:J:3337:ARG:HB2	2.31	0.64
2:J:4151:SER:HA	2:J:4160:LEU:HD21	1.79	0.64
2:B:2604:GLU:HB3	2:B:2639:MET:HE2	1.80	0.64
2:B:2967:MET:HE2	2:B:3045:LYS:HD3	1.79	0.64
2:E:2967:MET:HE2	2:E:3045:LYS:HD3	1.79	0.64
2:G:2305:CYS:HB2	2:G:2324:ASN:HB3	1.79	0.64
2:J:2604:GLU:HB3	2:J:2639:MET:HE2	1.80	0.64
2:G:248:GLU:HB2	2:G:373:LYS:HD2	1.79	0.64
2:G:4151:SER:HA	2:G:4160:LEU:HD21	1.79	0.64
1:D:23:VAL:HB	1:D:45:PRO:HB2	1.80	0.64
2:B:3936:TYR:HA	2:G:76:ARG:HH22	1.61	0.64
2:G:1122:TYR:HE2	2:G:1182:ILE:HG12	1.63	0.64
3:F:111:ASN:HA	3:F:114:TYR:CD2	2.32	0.64
2:E:2305:CYS:HB2	2:E:2324:ASN:HB3	1.79	0.64
2:G:1727:ARG:HD3	2:G:1730:MET:HE3	1.80	0.63
2:G:2827:ARG:NH2	2:G:2935:TYR:OH	2.32	0.63
1:A:23:VAL:HB	1:A:45:PRO:HB2	1.80	0.63
2:B:2199:ARG:NH2	2:B:2245:GLN:OE1	2.31	0.63
2:E:2340:PHE:HB3	2:E:2435:ARG:HH21	1.63	0.63
2:G:2604:GLU:HB3	2:G:2639:MET:HE2	1.80	0.63
2:G:4722:ARG:NH2	2:G:4726:ASP:OD1	2.31	0.63
2:J:1122:TYR:HE2	2:J:1182:ILE:HG12	1.63	0.63
2:J:2199:ARG:NH2	2:J:2245:GLN:OE1	2.32	0.63
2:B:870:ILE:HG13	2:B:873:LYS:HD2	1.80	0.63
2:B:2418:LEU:O	2:B:2422:ILE:HG12	1.99	0.63
2:G:2967:MET:HE2	2:G:3045:LYS:HD3	1.79	0.63
2:J:2827:ARG:NH2	2:J:2935:TYR:OH	2.32	0.63
2:B:2364:PHE:HD1	2:B:2429:LEU:HD21	1.64	0.63
2:E:574:VAL:HA	2:E:577:ILE:HG22	1.81	0.63
2:E:870:ILE:HG13	2:E:873:LYS:HD2	1.80	0.63
2:E:1095:VAL:HB	2:E:1199:VAL:HG23	1.79	0.63
2:G:650:VAL:HB	2:G:750:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4722:ARG:NH2	2:J:4726:ASP:OD1	2.31	0.63
3:C:111:ASN:HA	3:C:114:TYR:CD2	2.32	0.63
3:M:22:CYS:HB3	3:M:78:VAL:HB	1.79	0.63
2:E:1122:TYR:HE2	2:E:1182:ILE:HG12	1.63	0.63
2:J:1095:VAL:HB	2:J:1199:VAL:HG23	1.79	0.63
3:C:22:CYS:HB3	3:C:78:VAL:HB	1.79	0.63
2:B:1122:TYR:HE2	2:B:1182:ILE:HG12	1.63	0.63
2:E:2199:ARG:NH2	2:E:2245:GLN:OE1	2.31	0.63
2:E:2364:PHE:HD1	2:E:2429:LEU:HD21	1.64	0.63
2:E:4151:SER:HA	2:E:4160:LEU:HD21	1.79	0.63
2:G:2340:PHE:HB3	2:G:2435:ARG:HH21	1.63	0.63
1:H:23:VAL:HB	1:H:45:PRO:HB2	1.80	0.63
2:B:1727:ARG:HD3	2:B:1730:MET:HE3	1.80	0.63
2:E:4152:GLU:OE1	2:E:4192:ARG:NH1	2.32	0.63
2:E:4722:ARG:NH2	2:E:4726:ASP:OD1	2.31	0.63
2:J:1727:ARG:HD3	2:J:1730:MET:HE3	1.80	0.63
2:J:2967:MET:HE2	2:J:3045:LYS:HD3	1.79	0.63
2:B:2340:PHE:HB3	2:B:2435:ARG:HH21	1.64	0.63
2:E:2177:LEU:HD13	2:E:2180:GLN:HE21	1.63	0.63
2:E:2418:LEU:O	2:E:2422:ILE:HG12	1.99	0.63
2:G:870:ILE:HG13	2:G:873:LYS:HD2	1.80	0.63
1:I:23:VAL:HB	1:I:45:PRO:HB2	1.80	0.63
2:G:1095:VAL:HB	2:G:1199:VAL:HG23	1.79	0.63
2:B:2827:ARG:NH2	2:B:2935:TYR:OH	2.32	0.62
2:B:4152:GLU:OE1	2:B:4192:ARG:NH1	2.32	0.62
2:J:2305:CYS:HB2	2:J:2324:ASN:HB3	1.79	0.62
2:B:4151:SER:HA	2:B:4160:LEU:HD21	1.79	0.62
2:G:2199:ARG:NH2	2:G:2245:GLN:OE1	2.32	0.62
2:J:870:ILE:HG13	2:J:873:LYS:HD2	1.80	0.62
2:J:2368:LEU:HD11	2:J:2376:LEU:HD12	1.82	0.62
2:E:3227:ARG:HB3	2:E:3232:LEU:HB2	1.82	0.62
2:E:4087:LEU:HD12	2:E:4122:MET:HG3	1.81	0.62
2:G:2368:LEU:HD11	2:G:2376:LEU:HD12	1.82	0.62
2:G:2418:LEU:O	2:G:2422:ILE:HG12	1.99	0.62
2:E:1727:ARG:HD3	2:E:1730:MET:HE3	1.80	0.62
2:J:3227:ARG:HB3	2:J:3232:LEU:HB2	1.81	0.62
2:B:2177:LEU:HD13	2:B:2180:GLN:HE21	1.63	0.62
2:E:2749:GLU:HG3	2:E:2752:ASP:HB2	1.81	0.62
2:E:3050:VAL:HG11	2:E:3068:LEU:HD11	1.82	0.62
2:G:574:VAL:HA	2:G:577:ILE:HG22	1.81	0.62
2:G:2177:LEU:HD13	2:G:2180:GLN:HE21	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3050:VAL:HG11	2:G:3068:LEU:HD11	1.82	0.62
2:G:3227:ARG:HB3	2:G:3232:LEU:HB2	1.81	0.62
2:B:574:VAL:HA	2:B:577:ILE:HG22	1.81	0.62
2:B:2368:LEU:HD11	2:B:2376:LEU:HD12	1.82	0.62
2:B:2916:LYS:HD3	2:B:2920:ARG:HH21	1.64	0.62
2:G:2364:PHE:HD1	2:G:2429:LEU:HD21	1.64	0.62
2:J:894:GLY:HA3	2:J:903:LEU:HD13	1.82	0.62
2:B:650:VAL:HB	2:B:750:LEU:HD11	1.80	0.62
2:B:4722:ARG:NH2	2:B:4726:ASP:OD1	2.31	0.62
2:E:2368:LEU:HD11	2:E:2376:LEU:HD12	1.82	0.62
2:J:2418:LEU:O	2:J:2422:ILE:HG12	1.99	0.62
2:B:894:GLY:HA3	2:B:903:LEU:HD13	1.82	0.62
2:B:2527:LEU:HB2	2:B:2582:MET:HE1	1.82	0.62
2:B:3227:ARG:HB3	2:B:3232:LEU:HB2	1.82	0.62
2:E:894:GLY:HA3	2:E:903:LEU:HD13	1.82	0.62
2:E:2827:ARG:NH2	2:E:2935:TYR:OH	2.32	0.62
2:G:246:TYR:HB2	2:G:373:LYS:HE3	1.80	0.62
2:G:365:LYS:HE2	2:G:369:LEU:HD11	1.81	0.62
2:J:360:ALA:HA	2:J:377:ILE:HD13	1.80	0.62
2:E:2163:ARG:NH2	2:E:2201:LEU:O	2.33	0.62
2:G:2163:ARG:NH2	2:G:2201:LEU:O	2.33	0.62
2:J:2177:LEU:HD13	2:J:2180:GLN:HE21	1.63	0.62
2:J:2749:GLU:HG3	2:J:2752:ASP:HB2	1.81	0.62
2:J:4087:LEU:HD12	2:J:4122:MET:HG3	1.81	0.62
3:M:111:ASN:HA	3:M:114:TYR:CD2	2.33	0.62
2:E:2916:LYS:HD3	2:E:2920:ARG:HH21	1.64	0.62
2:G:894:GLY:HA3	2:G:903:LEU:HD13	1.82	0.62
2:J:22:LEU:HG	2:J:202:MET:HG3	1.82	0.62
2:E:22:LEU:HG	2:E:202:MET:HG3	1.82	0.61
2:G:22:LEU:HG	2:G:202:MET:HG3	1.82	0.61
2:G:4152:GLU:OE1	2:G:4192:ARG:NH1	2.32	0.61
2:J:650:VAL:HB	2:J:750:LEU:HD11	1.80	0.61
2:B:2163:ARG:NH2	2:B:2201:LEU:O	2.33	0.61
2:B:3050:VAL:HG11	2:B:3068:LEU:HD11	1.82	0.61
2:J:2340:PHE:HB3	2:J:2435:ARG:HH21	1.64	0.61
2:J:3050:VAL:HG11	2:J:3068:LEU:HD11	1.82	0.61
2:J:3343:GLN:NE2	2:J:3471:THR:OG1	2.33	0.61
2:J:4152:GLU:OE1	2:J:4192:ARG:NH1	2.32	0.61
2:B:792:LEU:HA	2:B:798:GLY:HA3	1.82	0.61
2:B:3965:LEU:HA	2:B:3968:TYR:CD2	2.35	0.61
2:E:2527:LEU:HB2	2:E:2582:MET:HE1	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2971:GLN:HA	2:G:2974:ILE:HG12	1.82	0.61
2:G:4071:ILE:HD13	2:G:4103:PHE:HE2	1.65	0.61
2:J:574:VAL:HA	2:J:577:ILE:HG22	1.81	0.61
2:J:2527:LEU:HB2	2:J:2582:MET:HE1	1.82	0.61
2:J:2627:VAL:HG22	2:J:2678:LEU:HD21	1.82	0.61
2:B:252:VAL:HG21	2:B:257:ARG:HD3	1.83	0.61
2:B:3802:ILE:O	2:B:3806:ASN:ND2	2.33	0.61
2:B:4071:ILE:HD13	2:B:4103:PHE:HE2	1.65	0.61
2:E:2627:VAL:HG22	2:E:2678:LEU:HD21	1.82	0.61
2:G:2916:LYS:HD3	2:G:2920:ARG:HH21	1.64	0.61
2:G:3802:ILE:O	2:G:3806:ASN:ND2	2.33	0.61
2:G:4087:LEU:HD12	2:G:4122:MET:HG3	1.81	0.61
2:E:252:VAL:HG21	2:E:257:ARG:HD3	1.83	0.61
2:E:2013:LYS:NZ	2:E:3664:THR:OG1	2.34	0.61
2:E:2578:MET:O	2:E:2582:MET:HG2	2.01	0.61
2:E:3965:LEU:HA	2:E:3968:TYR:CD2	2.35	0.61
2:B:22:LEU:HG	2:B:202:MET:HG3	1.82	0.61
2:E:650:VAL:HB	2:E:750:LEU:HD11	1.80	0.61
2:G:3065:VAL:O	2:G:3069:HIS:ND1	2.34	0.61
2:G:3343:GLN:NE2	2:G:3471:THR:OG1	2.33	0.61
2:J:747:CYS:SG	2:J:756:SER:HB2	2.41	0.61
2:J:2163:ARG:NH2	2:J:2201:LEU:O	2.33	0.61
2:J:2364:PHE:HD1	2:J:2429:LEU:HD21	1.64	0.61
2:J:4090:LYS:HB3	2:J:4112:LEU:HD11	1.82	0.61
2:E:747:CYS:SG	2:E:756:SER:HB2	2.41	0.61
2:E:3802:ILE:O	2:E:3806:ASN:ND2	2.33	0.61
2:J:252:VAL:HG21	2:J:257:ARG:HD3	1.83	0.61
3:C:4:LEU:HD21	3:C:97:ALA:HB2	1.83	0.61
2:G:3965:LEU:HA	2:G:3968:TYR:CD2	2.35	0.61
2:J:2578:MET:O	2:J:2582:MET:HG2	2.01	0.61
2:J:3802:ILE:O	2:J:3806:ASN:ND2	2.33	0.61
2:B:2578:MET:O	2:B:2582:MET:HG2	2.01	0.61
2:E:1477:GLY:HA2	2:E:1483:VAL:HA	1.83	0.61
2:E:4071:ILE:HD13	2:E:4103:PHE:HE2	1.65	0.61
2:G:1619:ARG:HA	2:G:1626:TRP:HA	1.83	0.61
2:J:2916:LYS:HD3	2:J:2920:ARG:HH21	1.64	0.61
2:J:4040:ILE:HD11	2:J:4044:MET:HE3	1.83	0.61
2:B:4040:ILE:HD11	2:B:4044:MET:HE3	1.83	0.61
2:E:2971:GLN:HA	2:E:2974:ILE:HG12	1.82	0.61
2:E:3065:VAL:O	2:E:3069:HIS:ND1	2.34	0.61
2:G:252:VAL:HG21	2:G:257:ARG:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2527:LEU:HB2	2:G:2582:MET:HE1	1.82	0.61
2:G:2749:GLU:HG3	2:G:2752:ASP:HB2	1.81	0.61
2:J:792:LEU:HA	2:J:798:GLY:HA3	1.82	0.61
2:J:3065:VAL:O	2:J:3069:HIS:ND1	2.34	0.61
2:J:4071:ILE:HD13	2:J:4103:PHE:HE2	1.65	0.61
2:B:2971:GLN:HA	2:B:2974:ILE:HG12	1.82	0.60
2:B:3065:VAL:O	2:B:3069:HIS:ND1	2.34	0.60
2:B:3179:LYS:HZ1	2:B:3267:PRO:HG2	1.66	0.60
2:B:3343:GLN:NE2	2:B:3471:THR:OG1	2.33	0.60
2:B:4087:LEU:HD12	2:B:4122:MET:HG3	1.81	0.60
2:E:4040:ILE:HD11	2:E:4044:MET:HE3	1.83	0.60
2:G:172:VAL:HG22	2:G:179:TYR:HE1	1.66	0.60
2:G:4040:ILE:HD11	2:G:4044:MET:HE3	1.83	0.60
3:F:4:LEU:HD21	3:F:97:ALA:HB2	1.84	0.60
2:B:2627:VAL:HG22	2:B:2678:LEU:HD21	1.82	0.60
2:E:3343:GLN:NE2	2:E:3471:THR:OG1	2.33	0.60
2:E:4090:LYS:HB3	2:E:4112:LEU:HD11	1.82	0.60
2:B:645:ARG:HE	2:B:824:GLU:HG3	1.67	0.60
2:G:792:LEU:HA	2:G:798:GLY:HA3	1.82	0.60
2:G:2627:VAL:HG22	2:G:2678:LEU:HD21	1.82	0.60
2:G:4090:LYS:HB3	2:G:4112:LEU:HD11	1.82	0.60
2:B:4090:LYS:HB3	2:B:4112:LEU:HD11	1.82	0.60
2:E:792:LEU:HA	2:E:798:GLY:HA3	1.82	0.60
2:G:2881:ASN:HA	2:G:2884:ASN:ND2	2.17	0.60
2:J:2971:GLN:HA	2:J:2974:ILE:HG12	1.82	0.60
2:B:3410:PRO:O	2:B:3414:ARG:NH1	2.34	0.60
2:E:2715:VAL:HG11	2:E:2950:SER:HB2	1.84	0.60
2:E:2881:ASN:HA	2:E:2884:ASN:ND2	2.17	0.60
2:G:233:ILE:HA	2:G:245:VAL:HG12	1.84	0.60
2:G:246:TYR:HB2	2:G:373:LYS:CE	2.31	0.60
2:G:3110:LEU:HD11	2:G:3186:LEU:HD23	1.83	0.60
2:J:1619:ARG:HA	2:J:1626:TRP:HA	1.83	0.60
2:B:1451:GLY:HA3	2:B:1494:MET:HA	1.84	0.60
2:B:2749:GLU:HG3	2:B:2752:ASP:HB2	1.81	0.60
2:B:2967:MET:HG3	2:B:3045:LYS:HD3	1.84	0.60
2:E:172:VAL:HG22	2:E:179:TYR:HE1	1.66	0.60
2:E:574:VAL:O	2:E:578:ILE:HG12	2.02	0.60
2:E:1619:ARG:HA	2:E:1626:TRP:HA	1.83	0.60
2:E:3110:LEU:HD11	2:E:3186:LEU:HD23	1.83	0.60
2:E:4189:ARG:NH1	2:E:5032:TYR:OH	2.35	0.60
2:G:1451:GLY:HA3	2:G:1494:MET:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:172:VAL:HG22	2:J:179:TYR:HE1	1.66	0.60
2:J:4189:ARG:NH1	2:J:5032:TYR:OH	2.35	0.60
3:M:51:ILE:HG12	3:M:71:ARG:NH2	2.17	0.60
2:B:747:CYS:SG	2:B:756:SER:HB2	2.41	0.60
2:E:233:ILE:HA	2:E:245:VAL:HG12	1.84	0.60
2:E:2437:ALA:HB3	2:E:2508:ARG:HG3	1.83	0.60
2:E:3410:PRO:O	2:E:3414:ARG:NH1	2.34	0.60
2:G:1477:GLY:HA2	2:G:1483:VAL:HA	1.83	0.60
2:J:3312:LEU:HD11	2:J:3348:ARG:HB2	1.84	0.60
2:B:233:ILE:HA	2:B:245:VAL:HG12	1.84	0.60
2:J:233:ILE:HA	2:J:245:VAL:HG12	1.84	0.60
2:J:2881:ASN:HA	2:J:2884:ASN:ND2	2.17	0.60
3:C:51:ILE:HG12	3:C:71:ARG:NH2	2.17	0.60
3:K:4:LEU:HD21	3:K:97:ALA:HB2	1.83	0.60
2:B:985:VAL:HG22	2:B:1043:VAL:HG21	1.84	0.60
2:B:2715:VAL:HG11	2:B:2950:SER:HB2	1.84	0.60
2:G:2437:ALA:HB3	2:G:2508:ARG:HG3	1.83	0.60
3:M:4:LEU:HD21	3:M:97:ALA:HB2	1.83	0.60
2:B:937:CYS:HB3	2:B:1053:ILE:HB	1.84	0.59
2:B:1023:PRO:HD2	2:B:1026:LEU:HD12	1.84	0.59
2:B:1619:ARG:HA	2:B:1626:TRP:HA	1.83	0.59
2:E:3834:ALA:O	2:E:3838:THR:HG23	2.02	0.59
2:E:4978:HIS:ND1	2:E:4982:GLU:OE1	2.35	0.59
2:G:645:ARG:HE	2:G:824:GLU:HG3	1.67	0.59
2:G:747:CYS:SG	2:G:756:SER:HB2	2.41	0.59
2:G:2967:MET:HG3	2:G:3045:LYS:HD3	1.84	0.59
2:J:574:VAL:O	2:J:578:ILE:HG12	2.02	0.59
2:J:2967:MET:HG3	2:J:3045:LYS:HD3	1.84	0.59
3:F:51:ILE:HG12	3:F:71:ARG:NH2	2.17	0.59
2:E:277:GLY:HA2	2:E:315:CYS:HB2	1.84	0.59
2:E:985:VAL:HG22	2:E:1043:VAL:HG21	1.84	0.59
2:E:1979:LEU:HD23	2:E:1982:ARG:HH12	1.68	0.59
2:J:1154:ASP:OD2	2:J:1159:THR:OG1	2.20	0.59
2:B:172:VAL:HG22	2:B:179:TYR:HE1	1.66	0.59
2:B:1154:ASP:OD2	2:B:1159:THR:OG1	2.20	0.59
2:E:3312:LEU:HD11	2:E:3348:ARG:HB2	1.84	0.59
2:G:1154:ASP:OD2	2:G:1159:THR:OG1	2.20	0.59
2:G:3410:PRO:O	2:G:3414:ARG:NH1	2.34	0.59
2:B:2437:ALA:HB3	2:B:2508:ARG:HG3	1.83	0.59
2:B:2881:ASN:HA	2:B:2884:ASN:ND2	2.17	0.59
2:B:3834:ALA:O	2:B:3838:THR:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1023:PRO:HD2	2:G:1026:LEU:HD12	1.85	0.59
2:G:3312:LEU:HD11	2:G:3348:ARG:HB2	1.84	0.59
2:G:4189:ARG:NH1	2:G:5032:TYR:OH	2.35	0.59
2:E:940:GLY:O	2:E:1050:GLY:O	2.21	0.59
2:E:1154:ASP:OD2	2:E:1159:THR:OG1	2.20	0.59
2:E:3157:ILE:HG23	2:E:3161:VAL:HG12	1.85	0.59
2:G:246:TYR:CD1	2:G:375:LYS:HA	2.36	0.59
2:G:2578:MET:O	2:G:2582:MET:HG2	2.01	0.59
2:G:4953:ASP:HA	2:G:4956:THR:HG22	1.84	0.59
2:J:645:ARG:HE	2:J:824:GLU:HG3	1.67	0.59
2:J:1477:GLY:HA2	2:J:1483:VAL:HA	1.83	0.59
2:B:940:GLY:O	2:B:1050:GLY:O	2.21	0.59
2:B:4189:ARG:NH1	2:B:5032:TYR:OH	2.35	0.59
2:E:1257:VAL:HG13	2:E:1270:LEU:HD21	1.85	0.59
2:E:3110:LEU:HD13	2:E:3183:VAL:HG12	1.84	0.59
2:J:985:VAL:HG22	2:J:1043:VAL:HG21	1.84	0.59
2:J:2715:VAL:HG11	2:J:2950:SER:HB2	1.84	0.59
2:B:1477:GLY:HA2	2:B:1483:VAL:HA	1.83	0.59
2:B:2095:GLN:NE2	2:B:2127:GLN:O	2.36	0.59
2:B:3110:LEU:HD11	2:B:3186:LEU:HD23	1.83	0.59
2:E:2967:MET:HG3	2:E:3045:LYS:HD3	1.84	0.59
2:G:172:VAL:HG22	2:G:179:TYR:CE1	2.38	0.59
2:J:2437:ALA:HB3	2:J:2508:ARG:HG3	1.83	0.59
2:J:3410:PRO:O	2:J:3414:ARG:NH1	2.34	0.59
2:B:277:GLY:HA2	2:B:315:CYS:HB2	1.84	0.59
2:B:1257:VAL:HG13	2:B:1270:LEU:HD21	1.85	0.59
2:E:1451:GLY:HA3	2:E:1494:MET:HA	1.84	0.59
2:G:277:GLY:HA2	2:G:315:CYS:HB2	1.84	0.59
2:J:3106:MET:HE1	2:J:3128:ASN:HB3	1.84	0.59
2:J:3110:LEU:HD11	2:J:3186:LEU:HD23	1.83	0.59
2:B:1719:HIS:CD2	2:B:1800:PRO:HB2	2.38	0.59
2:E:2095:GLN:NE2	2:E:2127:GLN:O	2.36	0.59
2:G:597:HIS:HB3	2:G:1661:ARG:HH11	1.68	0.59
2:G:3043:PHE:HD1	2:G:3071:LEU:HB3	1.68	0.59
2:G:3157:ILE:HG23	2:G:3161:VAL:HG12	1.85	0.59
3:C:12:MET:HB3	3:C:18:LEU:HD11	1.85	0.59
3:K:51:ILE:HG12	3:K:71:ARG:NH2	2.17	0.59
2:B:635:THR:HB	2:B:1637:MET:SD	2.43	0.59
2:B:1871:PHE:HZ	2:B:2094:LEU:HD13	1.68	0.59
2:B:1979:LEU:HD23	2:B:1982:ARG:HH12	1.67	0.59
2:B:3157:ILE:HG23	2:B:3161:VAL:HG12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:635:THR:HB	2:G:1637:MET:SD	2.43	0.59
2:G:985:VAL:HG22	2:G:1043:VAL:HG21	1.84	0.59
2:G:2095:GLN:NE2	2:G:2127:GLN:O	2.36	0.59
2:J:1979:LEU:HD23	2:J:1982:ARG:HH12	1.67	0.59
2:J:2095:GLN:NE2	2:J:2127:GLN:O	2.36	0.59
2:J:3043:PHE:HD1	2:J:3071:LEU:HB3	1.68	0.59
2:B:574:VAL:O	2:B:578:ILE:HG12	2.02	0.58
2:E:635:THR:HB	2:E:1637:MET:SD	2.43	0.58
2:J:597:HIS:HB3	2:J:1661:ARG:HH11	1.68	0.58
2:J:635:THR:HB	2:J:1637:MET:SD	2.43	0.58
2:J:1451:GLY:HA3	2:J:1494:MET:HA	1.84	0.58
2:J:2013:LYS:NZ	2:J:3664:THR:OG1	2.34	0.58
2:J:3110:LEU:HD13	2:J:3183:VAL:HG12	1.84	0.58
2:J:3157:ILE:HG23	2:J:3161:VAL:HG12	1.85	0.58
2:B:3110:LEU:HD13	2:B:3183:VAL:HG12	1.84	0.58
2:E:1269:CYS:HB3	2:E:1565:GLU:HG3	1.85	0.58
2:G:574:VAL:O	2:G:578:ILE:HG12	2.02	0.58
2:G:1260:MET:N	2:G:1260:MET:SD	2.76	0.58
2:G:1719:HIS:CD2	2:G:1800:PRO:HB2	2.38	0.58
2:J:277:GLY:HA2	2:J:315:CYS:HB2	1.85	0.58
2:J:1260:MET:N	2:J:1260:MET:SD	2.76	0.58
2:B:2321:ILE:HD13	2:B:2422:ILE:HD11	1.85	0.58
2:E:937:CYS:HB3	2:E:1053:ILE:HB	1.84	0.58
2:G:2321:ILE:HD13	2:G:2422:ILE:HD11	1.86	0.58
2:J:1269:CYS:HB3	2:J:1565:GLU:HG3	1.85	0.58
2:B:929:LEU:HA	2:B:932:LEU:HD12	1.85	0.58
2:E:1023:PRO:HD2	2:E:1026:LEU:HD12	1.85	0.58
2:G:248:GLU:HA	2:G:373:LYS:HA	1.85	0.58
2:G:2715:VAL:HG11	2:G:2950:SER:HB2	1.84	0.58
2:J:940:GLY:O	2:J:1050:GLY:O	2.21	0.58
2:J:3965:LEU:HA	2:J:3968:TYR:CD2	2.37	0.58
3:F:12:MET:HB3	3:F:18:LEU:HD11	1.85	0.58
3:M:12:MET:HB3	3:M:18:LEU:HD11	1.85	0.58
2:B:3768:SER:HA	2:B:3771:HIS:CD2	2.39	0.58
2:G:3110:LEU:HD13	2:G:3183:VAL:HG12	1.84	0.58
1:A:68:LEU:HD21	1:A:106:LEU:H	1.69	0.58
1:H:68:LEU:HD21	1:H:106:LEU:H	1.69	0.58
2:B:162:LYS:NZ	2:E:3984:ARG:HH12	2.02	0.58
2:B:600:LEU:HD11	2:B:1662:PHE:CE1	2.38	0.58
2:B:1260:MET:N	2:B:1260:MET:SD	2.76	0.58
2:E:600:LEU:HD11	2:E:1662:PHE:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1260:MET:SD	2:E:1260:MET:N	2.76	0.58
2:E:1719:HIS:CD2	2:E:1800:PRO:HB2	2.38	0.58
2:E:3043:PHE:HD1	2:E:3071:LEU:HB3	1.68	0.58
2:G:600:LEU:HD11	2:G:1662:PHE:CE1	2.38	0.58
2:G:3768:SER:HA	2:G:3771:HIS:CD2	2.38	0.58
2:J:1023:PRO:HD2	2:J:1026:LEU:HD12	1.85	0.58
2:J:1041:GLN:OE1	2:J:1044:ARG:NH1	2.37	0.58
2:J:1871:PHE:HZ	2:J:2094:LEU:HD13	1.68	0.58
2:J:2247:GLN:HG3	2:J:2279:SER:HA	1.85	0.58
3:K:12:MET:HB3	3:K:18:LEU:HD11	1.85	0.58
1:D:49:ARG:HD2	1:D:52:LYS:HE3	1.86	0.58
2:B:223:PHE:O	2:B:388:LEU:HB2	2.04	0.58
2:B:597:HIS:HB3	2:B:1661:ARG:HH11	1.68	0.58
2:B:3041:SER:O	2:B:3045:LYS:HG3	2.04	0.58
2:B:4978:HIS:ND1	2:B:4982:GLU:OE1	2.35	0.58
2:E:223:PHE:O	2:E:388:LEU:HB2	2.04	0.58
2:E:2354:VAL:HG11	2:E:2453:ILE:HD12	1.86	0.58
2:G:937:CYS:HB3	2:G:1053:ILE:HB	1.84	0.58
2:G:940:GLY:O	2:G:1050:GLY:O	2.21	0.58
2:G:3834:ALA:O	2:G:3838:THR:HG23	2.02	0.58
2:J:1257:VAL:HG13	2:J:1270:LEU:HD21	1.85	0.58
2:J:2354:VAL:HG11	2:J:2453:ILE:HD12	1.86	0.58
2:J:2710:LEU:HD12	2:J:2711:PRO:HD2	1.86	0.58
2:J:3674:ILE:HG13	2:J:3732:SER:HB2	1.86	0.58
2:J:4953:ASP:HA	2:J:4956:THR:HG22	1.84	0.58
3:M:105:ASN:ND2	3:M:111:ASN:HB2	2.15	0.58
2:E:162:LYS:NZ	2:J:3984:ARG:HH12	2.02	0.58
2:E:1000:ARG:HE	2:E:1005:TRP:CD1	2.22	0.58
2:E:2247:GLN:HG3	2:E:2279:SER:HA	1.85	0.58
2:E:3768:SER:HA	2:E:3771:HIS:CD2	2.39	0.58
2:G:2261:SER:HB2	2:G:2273:LEU:HD22	1.86	0.58
2:G:3514:LEU:HD21	2:G:3602:VAL:HG11	1.85	0.58
2:J:2273:LEU:HG	2:J:2334:PHE:CZ	2.39	0.58
1:I:49:ARG:HD2	1:I:52:LYS:HE3	1.86	0.58
2:B:1000:ARG:HE	2:B:1005:TRP:CD1	2.22	0.58
2:B:1041:GLN:OE1	2:B:1044:ARG:NH1	2.37	0.58
2:B:1269:CYS:HB3	2:B:1565:GLU:HG3	1.85	0.58
2:B:2273:LEU:HG	2:B:2334:PHE:CZ	2.39	0.58
2:B:3106:MET:HE1	2:B:3128:ASN:HB3	1.84	0.58
2:B:4953:ASP:HA	2:B:4956:THR:HG22	1.85	0.58
2:E:2710:LEU:HD12	2:E:2711:PRO:HD2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3106:MET:HE1	2:E:3128:ASN:HB3	1.85	0.58
2:E:3674:ILE:HG13	2:E:3732:SER:HB2	1.86	0.58
2:G:246:TYR:HD1	2:G:375:LYS:HA	1.69	0.58
2:G:1979:LEU:HD23	2:G:1982:ARG:HH12	1.67	0.58
2:G:2291:GLN:HG2	2:G:2293:GLN:HG2	1.86	0.58
2:G:3041:SER:O	2:G:3045:LYS:HG3	2.04	0.58
2:G:4949:GLN:HA	2:G:4952:GLU:HG3	1.86	0.58
2:J:469:ARG:O	2:J:473:ASN:ND2	2.37	0.58
2:J:1005:TRP:HB3	2:J:1021:LEU:HD22	1.86	0.58
2:B:469:ARG:O	2:B:473:ASN:ND2	2.37	0.58
2:B:657:THR:HB	2:B:1007:TYR:H	1.69	0.58
2:B:2107:GLN:NE2	2:B:3679:LYS:O	2.37	0.58
2:B:3312:LEU:HD11	2:B:3348:ARG:HB2	1.84	0.58
2:B:3514:LEU:HD21	2:B:3602:VAL:HG11	1.85	0.58
2:E:657:THR:HB	2:E:1007:TYR:H	1.69	0.58
2:E:668:VAL:HG22	2:E:789:VAL:HG12	1.85	0.58
2:E:929:LEU:HA	2:E:932:LEU:HD12	1.85	0.58
2:E:3245:VAL:HG12	2:E:3248:ARG:HE	1.69	0.58
2:G:223:PHE:O	2:G:388:LEU:HB2	2.04	0.58
2:G:1257:VAL:HG13	2:G:1270:LEU:HD21	1.85	0.58
2:G:2175:GLU:O	2:G:2179:ILE:HG12	2.03	0.58
2:G:3937:TYR:O	2:G:4002:LYS:NZ	2.37	0.58
2:J:668:VAL:HG22	2:J:789:VAL:HG12	1.85	0.58
2:J:2420:HIS:HA	2:J:2423:MET:HG2	1.86	0.58
3:M:66:ARG:HD2	3:M:83:ASN:HB3	1.86	0.58
2:B:668:VAL:HG22	2:B:789:VAL:HG12	1.85	0.57
2:B:2354:VAL:HG11	2:B:2453:ILE:HD12	1.86	0.57
2:E:172:VAL:HG22	2:E:179:TYR:CE1	2.38	0.57
2:E:1871:PHE:HZ	2:E:2094:LEU:HD13	1.68	0.57
2:G:1871:PHE:HZ	2:G:2094:LEU:HD13	1.68	0.57
2:G:3984:ARG:HH12	2:J:162:LYS:NZ	2.01	0.57
2:J:1719:HIS:CD2	2:J:1800:PRO:HB2	2.38	0.57
2:J:3834:ALA:O	2:J:3838:THR:HG23	2.02	0.57
2:J:3937:TYR:O	2:J:4002:LYS:NZ	2.37	0.57
3:K:105:ASN:ND2	3:K:111:ASN:HB2	2.16	0.57
2:E:645:ARG:HE	2:E:824:GLU:HG3	1.67	0.57
2:E:2420:HIS:HA	2:E:2423:MET:HG2	1.86	0.57
2:E:3041:SER:O	2:E:3045:LYS:HG3	2.04	0.57
2:G:1005:TRP:HB3	2:G:1021:LEU:HD22	1.86	0.57
2:G:1269:CYS:HB3	2:G:1565:GLU:HG3	1.85	0.57
2:G:2354:VAL:HG11	2:G:2453:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3866:ILE:HD13	2:G:3868:ARG:HE	1.69	0.57
2:J:172:VAL:HG22	2:J:179:TYR:CE1	2.38	0.57
2:J:1000:ARG:HE	2:J:1005:TRP:CD1	2.22	0.57
2:J:3245:VAL:HG12	2:J:3248:ARG:HE	1.69	0.57
1:I:68:LEU:HD21	1:I:106:LEU:H	1.69	0.57
2:B:1005:TRP:HB3	2:B:1021:LEU:HD22	1.86	0.57
2:B:2247:GLN:HG3	2:B:2279:SER:HA	1.85	0.57
2:B:3043:PHE:HD1	2:B:3071:LEU:HB3	1.68	0.57
2:B:3172:ILE:HD13	2:B:3194:LEU:HB2	1.86	0.57
2:E:2107:GLN:NE2	2:E:3679:LYS:O	2.37	0.57
2:E:3512:ALA:HA	2:E:3516:LYS:HG2	1.87	0.57
2:G:668:VAL:HG22	2:G:789:VAL:HG12	1.85	0.57
2:G:3106:MET:HE1	2:G:3128:ASN:HB3	1.84	0.57
2:J:2175:GLU:O	2:J:2179:ILE:HG12	2.03	0.57
2:J:2623:LEU:O	2:J:2627:VAL:HG23	2.04	0.57
2:B:2261:SER:HB2	2:B:2273:LEU:HD22	1.86	0.57
2:B:3036:LYS:HD2	2:B:3079:THR:HG21	1.86	0.57
2:B:4949:GLN:HA	2:B:4952:GLU:HG3	1.86	0.57
2:E:248:GLU:CB	2:E:373:LYS:HD2	2.30	0.57
2:E:1455:PRO:HG3	2:E:1549:PHE:HE1	1.69	0.57
2:E:3937:TYR:O	2:E:4002:LYS:NZ	2.37	0.57
2:G:1599:MET:HG3	2:G:1601:MET:HE3	1.86	0.57
2:G:2623:LEU:O	2:G:2627:VAL:HG23	2.04	0.57
2:J:3768:SER:HA	2:J:3771:HIS:CD2	2.39	0.57
3:C:66:ARG:HD2	3:C:83:ASN:HB3	1.86	0.57
2:B:870:ILE:HD11	2:B:1049:TYR:HB3	1.87	0.57
2:B:1455:PRO:HG3	2:B:1549:PHE:HE1	1.69	0.57
2:B:1727:ARG:O	2:B:1731:LEU:HG	2.05	0.57
2:B:3245:VAL:HG12	2:B:3248:ARG:HE	1.69	0.57
2:E:2175:GLU:O	2:E:2179:ILE:HG12	2.03	0.57
2:E:3036:LYS:HD2	2:E:3079:THR:HG21	1.86	0.57
2:G:929:LEU:HA	2:G:932:LEU:HD12	1.85	0.57
2:G:3674:ILE:HG13	2:G:3732:SER:HB2	1.86	0.57
2:J:293:LEU:HD13	2:J:378:LEU:HD12	1.86	0.57
2:J:3866:ILE:HD13	2:J:3868:ARG:HE	1.69	0.57
2:B:2175:GLU:O	2:B:2179:ILE:HG12	2.03	0.57
2:B:2710:LEU:HD12	2:B:2711:PRO:HD2	1.86	0.57
2:E:1041:GLN:OE1	2:E:1044:ARG:NH1	2.37	0.57
2:G:1000:ARG:HE	2:G:1005:TRP:CD1	2.22	0.57
2:G:1041:GLN:OE1	2:G:1044:ARG:NH1	2.37	0.57
2:J:3041:SER:O	2:J:3045:LYS:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3512:ALA:HA	2:J:3516:LYS:HG2	1.87	0.57
2:J:4949:GLN:HA	2:J:4952:GLU:HG3	1.86	0.57
1:A:49:ARG:HD2	1:A:52:LYS:HE3	1.86	0.57
1:D:68:LEU:HD21	1:D:106:LEU:H	1.69	0.57
1:H:49:ARG:HD2	1:H:52:LYS:HE3	1.86	0.57
2:B:2291:GLN:HG2	2:B:2293:GLN:HG2	1.86	0.57
2:B:3984:ARG:HH12	2:G:162:LYS:NZ	2.02	0.57
2:E:2273:LEU:HG	2:E:2334:PHE:CZ	2.39	0.57
2:E:2321:ILE:HD13	2:E:2422:ILE:HD11	1.85	0.57
2:E:3514:LEU:HD21	2:E:3602:VAL:HG11	1.85	0.57
2:G:2258:LEU:HD23	2:G:2297:LYS:HE3	1.87	0.57
2:G:2420:HIS:HA	2:G:2423:MET:HG2	1.86	0.57
2:G:2710:LEU:HD12	2:G:2711:PRO:HD2	1.86	0.57
2:G:3512:ALA:HA	2:G:3516:LYS:HG2	1.87	0.57
2:J:280:LEU:HD21	2:J:316:PHE:HE2	1.70	0.57
2:J:929:LEU:HA	2:J:932:LEU:HD12	1.85	0.57
2:J:937:CYS:HB3	2:J:1053:ILE:HB	1.84	0.57
2:J:2261:SER:HB2	2:J:2273:LEU:HD22	1.86	0.57
2:B:172:VAL:HG22	2:B:179:TYR:CE1	2.38	0.57
2:E:469:ARG:O	2:E:473:ASN:ND2	2.37	0.57
2:G:2273:LEU:HG	2:G:2334:PHE:CZ	2.39	0.57
2:G:3245:VAL:HG12	2:G:3248:ARG:HE	1.69	0.57
2:J:600:LEU:HD11	2:J:1662:PHE:CE1	2.38	0.57
2:J:3172:ILE:HD13	2:J:3194:LEU:HB2	1.86	0.57
2:E:597:HIS:HB3	2:E:1661:ARG:HH11	1.68	0.57
2:E:618:GLN:NE2	2:E:1672:ALA:O	2.38	0.57
2:E:1727:ARG:O	2:E:1731:LEU:HG	2.05	0.57
2:G:280:LEU:HD21	2:G:316:PHE:HE2	1.70	0.57
2:G:657:THR:HB	2:G:1007:TYR:H	1.69	0.57
2:J:657:THR:HB	2:J:1007:TYR:H	1.69	0.57
2:J:2321:ILE:HD13	2:J:2422:ILE:HD11	1.85	0.57
2:J:3514:LEU:HD21	2:J:3602:VAL:HG11	1.85	0.57
1:H:78:PRO:HA	1:H:81:ALA:HB3	1.87	0.57
2:E:4953:ASP:HA	2:E:4956:THR:HG22	1.84	0.57
2:G:2122:SER:HA	2:G:2125:HIS:ND1	2.20	0.57
2:G:2470:ILE:HG22	2:G:2525:GLY:HA3	1.87	0.57
2:J:2107:GLN:NE2	2:J:3679:LYS:O	2.37	0.57
3:M:51:ILE:O	3:M:71:ARG:NH2	2.35	0.57
2:B:293:LEU:HD13	2:B:378:LEU:HD12	1.86	0.56
2:B:1599:MET:HG3	2:B:1601:MET:HE3	1.86	0.56
2:B:2623:LEU:O	2:B:2627:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3674:ILE:HG13	2:B:3732:SER:HB2	1.86	0.56
2:B:3937:TYR:O	2:B:4002:LYS:NZ	2.37	0.56
2:E:1005:TRP:HB3	2:E:1021:LEU:HD22	1.86	0.56
2:E:2170:MET:HE1	2:E:2178:MET:HE1	1.87	0.56
2:E:2623:LEU:O	2:E:2627:VAL:HG23	2.05	0.56
2:E:3843:ASP:H	2:E:3874:VAL:CG2	2.18	0.56
2:G:1727:ARG:O	2:G:1731:LEU:HG	2.05	0.56
2:G:2170:MET:HE1	2:G:2178:MET:HE1	1.87	0.56
2:G:3767:GLN:HE22	2:G:3806:ASN:HB2	1.70	0.56
2:G:3843:ASP:H	2:G:3874:VAL:CG2	2.18	0.56
2:J:1599:MET:HG3	2:J:1601:MET:HE3	1.86	0.56
2:J:2122:SER:HA	2:J:2125:HIS:ND1	2.20	0.56
2:J:2291:GLN:HG2	2:J:2293:GLN:HG2	1.86	0.56
3:K:51:ILE:O	3:K:71:ARG:NH2	2.35	0.56
2:B:3512:ALA:HA	2:B:3516:LYS:HG2	1.87	0.56
2:E:2470:ILE:HG22	2:E:2525:GLY:HA3	1.87	0.56
2:E:4679:ARG:NH1	2:E:4715:TYR:OH	2.38	0.56
2:G:870:ILE:HD11	2:G:1049:TYR:HB3	1.87	0.56
2:G:2107:GLN:NE2	2:G:3679:LYS:O	2.37	0.56
2:B:280:LEU:HD21	2:B:316:PHE:HE2	1.70	0.56
2:B:618:GLN:NE2	2:B:1672:ALA:O	2.38	0.56
2:B:1159:THR:HA	2:B:1180:ARG:HA	1.86	0.56
2:B:3524:MET:HA	2:B:3582:ARG:HH12	1.71	0.56
2:E:248:GLU:HA	2:E:372:LEU:C	2.30	0.56
2:E:1599:MET:HG3	2:E:1601:MET:HE3	1.86	0.56
2:E:3866:ILE:HD13	2:E:3868:ARG:HE	1.69	0.56
2:E:4949:GLN:HA	2:E:4952:GLU:HG3	1.86	0.56
2:G:469:ARG:O	2:G:473:ASN:ND2	2.37	0.56
2:G:4978:HIS:ND1	2:G:4982:GLU:OE1	2.35	0.56
2:J:870:ILE:HD11	2:J:1049:TYR:HB3	1.87	0.56
2:J:2258:LEU:HD23	2:J:2297:LYS:HE3	1.87	0.56
2:J:3036:LYS:HD2	2:J:3079:THR:HG21	1.86	0.56
2:J:4978:HIS:ND1	2:J:4982:GLU:OE1	2.35	0.56
3:C:51:ILE:O	3:C:71:ARG:NH2	2.35	0.56
3:K:66:ARG:HD2	3:K:83:ASN:HB3	1.86	0.56
2:B:638:ILE:HG21	2:B:702:TRP:HE1	1.70	0.56
2:B:2470:ILE:HG22	2:B:2525:GLY:HA3	1.87	0.56
2:B:3866:ILE:HD13	2:B:3868:ARG:HE	1.69	0.56
2:E:280:LEU:HD21	2:E:316:PHE:HE2	1.70	0.56
2:E:2122:SER:HA	2:E:2125:HIS:ND1	2.20	0.56
2:E:3172:ILE:HD13	2:E:3194:LEU:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:618:GLN:NE2	2:G:1672:ALA:O	2.38	0.56
2:G:2247:GLN:HG3	2:G:2279:SER:HA	1.85	0.56
2:G:3467:MET:HE3	2:G:3467:MET:HA	1.88	0.56
1:H:68:LEU:HG	1:H:103:LEU:HG	1.88	0.56
2:E:638:ILE:HG21	2:E:702:TRP:HE1	1.70	0.56
2:G:638:ILE:HG21	2:G:702:TRP:HE1	1.70	0.56
2:G:2013:LYS:NZ	2:G:3664:THR:OG1	2.34	0.56
2:G:3198:ALA:HB1	2:G:3276:MET:HE1	1.87	0.56
2:J:223:PHE:O	2:J:388:LEU:HB2	2.04	0.56
2:J:1159:THR:HA	2:J:1180:ARG:HA	1.86	0.56
2:J:1455:PRO:HG3	2:J:1549:PHE:HE1	1.69	0.56
2:J:3198:ALA:HB1	2:J:3276:MET:HE1	1.87	0.56
2:J:4147:LEU:HD21	2:J:4164:LEU:HA	1.88	0.56
2:J:4679:ARG:NH1	2:J:4715:TYR:OH	2.38	0.56
2:B:2258:LEU:HD23	2:B:2297:LYS:HE3	1.87	0.56
2:B:3843:ASP:H	2:B:3874:VAL:CG2	2.18	0.56
2:E:1159:THR:HA	2:E:1180:ARG:HA	1.86	0.56
2:G:293:LEU:HD13	2:G:378:LEU:HD12	1.86	0.56
2:G:3172:ILE:HD13	2:G:3194:LEU:HB2	1.86	0.56
2:G:3986:TRP:HE1	2:G:4047:MET:HB3	1.70	0.56
2:J:497:TYR:HB2	2:J:503:PHE:CZ	2.41	0.56
2:J:3843:ASP:H	2:J:3874:VAL:CG2	2.18	0.56
2:B:1005:TRP:HE1	2:B:1016:ARG:HH21	1.53	0.56
2:B:2420:HIS:HA	2:B:2423:MET:HG2	1.86	0.56
2:B:3036:LYS:HD3	2:B:3076:ASP:HB3	1.88	0.56
2:B:4147:LEU:HD21	2:B:4164:LEU:HA	1.88	0.56
2:E:497:TYR:HB2	2:E:503:PHE:CZ	2.41	0.56
2:E:783:PHE:HB2	2:E:787:VAL:HG21	1.88	0.56
2:G:372:LEU:O	2:G:374:LYS:HG3	2.05	0.56
2:B:2677:LYS:HE3	2:B:2909:ASP:HB2	1.87	0.56
2:B:3767:GLN:HE22	2:B:3806:ASN:HB2	1.70	0.56
2:B:4679:ARG:NH1	2:B:4715:TYR:OH	2.38	0.56
2:E:2291:GLN:HG2	2:E:2293:GLN:HG2	1.86	0.56
2:G:1455:PRO:HG3	2:G:1549:PHE:HE1	1.69	0.56
2:J:3767:GLN:HE22	2:J:3806:ASN:HB2	1.70	0.56
3:C:38:ARG:HB3	3:C:93:TYR:CD1	2.41	0.56
3:M:47:LEU:O	3:M:62:SER:OG	2.24	0.56
2:B:497:TYR:HB2	2:B:503:PHE:CZ	2.41	0.56
2:E:2261:SER:HB2	2:E:2273:LEU:HD22	1.86	0.56
2:J:2470:ILE:HG22	2:J:2525:GLY:HA3	1.86	0.56
2:J:2677:LYS:HE3	2:J:2909:ASP:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3036:LYS:HD3	2:J:3076:ASP:HB3	1.88	0.56
3:F:66:ARG:HD2	3:F:83:ASN:HB3	1.86	0.56
2:B:2794:TYR:HA	2:B:2797:PHE:HB3	1.88	0.56
2:B:3590:GLU:O	2:B:3594:ARG:HG2	2.06	0.56
2:E:1005:TRP:HE1	2:E:1016:ARG:HH21	1.53	0.56
2:G:4679:ARG:NH1	2:G:4715:TYR:OH	2.38	0.56
2:J:618:GLN:NE2	2:J:1672:ALA:O	2.38	0.56
1:I:68:LEU:HG	1:I:103:LEU:HG	1.88	0.55
2:B:2170:MET:HE1	2:B:2178:MET:HE1	1.87	0.55
2:E:293:LEU:HD13	2:E:378:LEU:HD12	1.86	0.55
2:E:2258:LEU:HD23	2:E:2297:LYS:HE3	1.87	0.55
2:E:3524:MET:HA	2:E:3582:ARG:HH12	1.71	0.55
2:E:5004:THR:HG22	2:E:5007:GLU:HG2	1.88	0.55
2:G:232:THR:HG22	2:G:258:SER:HB3	1.88	0.55
2:G:1159:THR:HA	2:G:1180:ARG:HA	1.86	0.55
2:G:3524:MET:HA	2:G:3582:ARG:HH12	1.71	0.55
2:J:232:THR:HG22	2:J:258:SER:HB3	1.88	0.55
2:J:3245:VAL:HG12	2:J:3248:ARG:NE	2.21	0.55
2:J:3438:VAL:HG21	2:J:3517:MET:HE3	1.87	0.55
2:J:3467:MET:HE3	2:J:3467:MET:HA	1.88	0.55
1:A:78:PRO:HA	1:A:81:ALA:HB3	1.87	0.55
2:E:3397:GLU:HA	2:E:3400:VAL:HG12	1.88	0.55
2:G:636:ASN:HB3	2:G:702:TRP:HZ2	1.72	0.55
2:G:783:PHE:HB2	2:G:787:VAL:HG21	1.88	0.55
2:G:2724:GLU:HG3	2:G:2725:LYS:HG3	1.88	0.55
2:G:2794:TYR:HA	2:G:2797:PHE:HB3	1.88	0.55
2:G:3036:LYS:HD2	2:G:3079:THR:HG21	1.86	0.55
2:G:3904:ARG:NH1	2:G:3976:ASN:OD1	2.33	0.55
2:G:4147:LEU:HD21	2:G:4164:LEU:HA	1.88	0.55
2:J:2794:TYR:HA	2:J:2797:PHE:HB3	1.89	0.55
2:J:3805:LEU:HB3	2:J:3890:LEU:HD21	1.88	0.55
3:F:38:ARG:HB3	3:F:93:TYR:CD1	2.41	0.55
3:M:38:ARG:HB3	3:M:93:TYR:CD1	2.41	0.55
1:I:78:PRO:HA	1:I:81:ALA:HB3	1.87	0.55
2:B:3438:VAL:HG21	2:B:3517:MET:HE3	1.87	0.55
2:E:360:ALA:HA	2:E:377:ILE:HD13	1.87	0.55
2:E:2794:TYR:HA	2:E:2797:PHE:HB3	1.89	0.55
2:E:3093:ARG:O	2:E:3097:GLU:HG2	2.07	0.55
2:G:103:TYR:HB2	2:G:160:GLY:H	1.72	0.55
2:G:1032:LYS:HB3	2:G:1036:ARG:HH22	1.71	0.55
2:J:1727:ARG:O	2:J:1731:LEU:HG	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1740:PRO:HA	2:J:1743:ARG:HG2	1.89	0.55
2:B:636:ASN:HB3	2:B:702:TRP:HZ2	1.72	0.55
2:B:2585:THR:HA	2:B:2588:ARG:HD3	1.88	0.55
2:E:3467:MET:HA	2:E:3467:MET:HE3	1.87	0.55
2:E:3843:ASP:H	2:E:3874:VAL:HG23	1.71	0.55
2:E:3904:ARG:NH1	2:E:3976:ASN:OD1	2.33	0.55
2:G:2677:LYS:HE3	2:G:2909:ASP:HB2	1.87	0.55
2:G:3093:ARG:O	2:G:3097:GLU:HG2	2.07	0.55
2:G:3438:VAL:HG21	2:G:3517:MET:HE3	1.87	0.55
2:G:4211:LYS:NZ	5:G:5102:ATP:O3G	2.39	0.55
2:G:4241:THR:O	2:G:4245:MET:HG2	2.07	0.55
2:J:1005:TRP:HE1	2:J:1016:ARG:HH21	1.53	0.55
2:J:2170:MET:HE1	2:J:2178:MET:HE1	1.87	0.55
2:J:3397:GLU:HA	2:J:3400:VAL:HG12	1.89	0.55
2:J:3843:ASP:H	2:J:3874:VAL:HG23	1.71	0.55
2:J:3986:TRP:HE1	2:J:4047:MET:HB3	1.71	0.55
1:D:68:LEU:HG	1:D:103:LEU:HG	1.88	0.55
2:B:2122:SER:O	2:B:2125:HIS:ND1	2.40	0.55
2:B:2122:SER:HA	2:B:2125:HIS:ND1	2.20	0.55
2:B:3397:GLU:HA	2:B:3400:VAL:HG12	1.89	0.55
2:E:3036:LYS:HD3	2:E:3076:ASP:HB3	1.88	0.55
2:E:3590:GLU:O	2:E:3594:ARG:HG2	2.07	0.55
2:G:497:TYR:HB2	2:G:503:PHE:CZ	2.41	0.55
2:G:897:ARG:HD3	2:G:905:PRO:HD3	1.88	0.55
2:G:1740:PRO:HA	2:G:1743:ARG:HG2	1.89	0.55
2:G:3196:ARG:NH1	2:G:3196:ARG:HA	2.22	0.55
3:F:47:LEU:O	3:F:62:SER:OG	2.24	0.55
3:F:105:ASN:ND2	3:F:111:ASN:HB2	2.16	0.55
3:K:38:ARG:HB3	3:K:93:TYR:CD1	2.41	0.55
1:A:35:LYS:HE2	2:B:636:ASN:ND2	2.21	0.55
2:B:2724:GLU:HG3	2:B:2725:LYS:HG3	1.88	0.55
2:B:3093:ARG:O	2:B:3097:GLU:HG2	2.07	0.55
2:B:3198:ALA:HB1	2:B:3276:MET:HE1	1.87	0.55
2:E:647:ASN:HD22	2:E:822:ARG:HG2	1.71	0.55
2:E:870:ILE:HD11	2:E:1049:TYR:HB3	1.87	0.55
2:E:897:ARG:HD3	2:E:905:PRO:HD3	1.88	0.55
2:E:3438:VAL:HG21	2:E:3517:MET:HE3	1.87	0.55
2:E:3805:LEU:HB3	2:E:3890:LEU:HD21	1.88	0.55
2:G:2122:SER:O	2:G:2125:HIS:ND1	2.40	0.55
2:G:3036:LYS:HD3	2:G:3076:ASP:HB3	1.88	0.55
2:J:103:TYR:HB2	2:J:160:GLY:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4241:THR:O	2:J:4245:MET:HG2	2.07	0.55
3:C:47:LEU:O	3:C:62:SER:OG	2.24	0.55
2:B:248:GLU:HA	2:B:372:LEU:C	2.31	0.55
2:B:360:ALA:HA	2:B:377:ILE:HD13	1.88	0.55
2:B:1849:LEU:HG	2:B:1945:TYR:CE1	2.42	0.55
2:B:4241:THR:O	2:B:4245:MET:HG2	2.07	0.55
2:J:3349:ALA:HB1	2:J:3353:LEU:HD22	1.89	0.55
2:B:3196:ARG:NH1	2:B:3196:ARG:HA	2.22	0.55
2:E:2711:PRO:HG2	2:E:2714:TYR:HB2	1.89	0.55
2:E:3196:ARG:NH1	2:E:3196:ARG:HA	2.22	0.55
2:E:3198:ALA:HB1	2:E:3276:MET:HE1	1.88	0.55
2:E:3245:VAL:HG12	2:E:3248:ARG:NE	2.21	0.55
2:E:4241:THR:O	2:E:4245:MET:HG2	2.06	0.55
2:G:2754:PHE:HE2	2:G:2813:LEU:HD11	1.72	0.55
2:G:3843:ASP:H	2:G:3874:VAL:HG23	1.71	0.55
2:J:636:ASN:HB3	2:J:702:TRP:HZ2	1.72	0.55
2:J:1032:LYS:HB3	2:J:1036:ARG:HH22	1.71	0.55
2:J:3416:VAL:HG23	2:J:3423:TRP:HZ3	1.72	0.55
2:J:3961:VAL:O	2:J:3965:LEU:HG	2.06	0.55
3:C:111:ASN:O	3:C:114:TYR:HB2	2.07	0.55
3:F:111:ASN:O	3:F:114:TYR:HB2	2.07	0.55
3:K:47:LEU:O	3:K:62:SER:OG	2.24	0.55
2:B:783:PHE:HB2	2:B:787:VAL:HG21	1.88	0.55
2:B:1730:MET:HE1	2:B:1772:ARG:HD2	1.89	0.55
2:B:2754:PHE:HE2	2:B:2813:LEU:HD11	1.72	0.55
2:B:3467:MET:HA	2:B:3467:MET:HE3	1.88	0.55
2:B:3904:ARG:NH1	2:B:3976:ASN:OD1	2.33	0.55
2:B:3986:TRP:HE1	2:B:4047:MET:HB3	1.70	0.55
2:G:3805:LEU:HB3	2:G:3890:LEU:HD21	1.88	0.55
3:C:72:ASP:OD1	3:C:77:THR:OG1	2.25	0.55
2:B:2013:LYS:NZ	2:B:3664:THR:OG1	2.34	0.55
2:B:3843:ASP:H	2:B:3874:VAL:HG23	1.71	0.55
2:E:1730:MET:HE1	2:E:1772:ARG:HD2	1.89	0.55
2:E:1849:LEU:HG	2:E:1945:TYR:CE1	2.42	0.55
2:E:2544:THR:HG22	2:E:2546:MET:H	1.72	0.55
2:G:3590:GLU:O	2:G:3594:ARG:HG2	2.07	0.55
2:J:647:ASN:HD22	2:J:822:ARG:HG2	1.71	0.55
2:J:5004:THR:HG22	2:J:5007:GLU:HG2	1.88	0.55
3:C:6:GLU:HG3	3:C:121:THR:HG23	1.88	0.55
2:B:232:THR:HG22	2:B:258:SER:HB3	1.88	0.54
2:B:2544:THR:HG22	2:B:2546:MET:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2711:PRO:HG2	2:B:2714:TYR:HB2	1.89	0.54
2:B:3416:VAL:HG23	2:B:3423:TRP:HZ3	1.72	0.54
2:E:103:TYR:HB2	2:E:160:GLY:H	1.72	0.54
2:E:316:PHE:HB3	2:E:346:CYS:HB2	1.90	0.54
2:E:2724:GLU:HG3	2:E:2725:LYS:HG3	1.88	0.54
2:E:3416:VAL:HG23	2:E:3423:TRP:HZ3	1.72	0.54
2:E:4147:LEU:HD21	2:E:4164:LEU:HA	1.88	0.54
2:G:1849:LEU:HG	2:G:1945:TYR:CE1	2.42	0.54
2:J:897:ARG:HD3	2:J:905:PRO:HD3	1.88	0.54
2:J:2585:THR:HA	2:J:2588:ARG:HD3	1.88	0.54
2:J:3196:ARG:NH1	2:J:3196:ARG:HA	2.22	0.54
1:D:78:PRO:HA	1:D:81:ALA:HB3	1.87	0.54
2:B:365:LYS:HE2	2:B:369:LEU:HD11	1.89	0.54
2:B:647:ASN:HD22	2:B:822:ARG:HG2	1.71	0.54
2:B:3245:VAL:HG12	2:B:3248:ARG:NE	2.21	0.54
2:E:2677:LYS:HE3	2:E:2909:ASP:HB2	1.87	0.54
2:E:3986:TRP:HE1	2:E:4047:MET:HB3	1.70	0.54
2:G:2599:GLN:O	2:G:2603:ILE:HG12	2.07	0.54
2:G:3189:ALA:O	2:G:3192:GLU:HG2	2.07	0.54
2:G:3245:VAL:HG12	2:G:3248:ARG:NE	2.21	0.54
2:J:638:ILE:HG21	2:J:702:TRP:HE1	1.71	0.54
2:J:3107:VAL:HA	2:J:3175:LEU:HD21	1.89	0.54
2:J:3590:GLU:O	2:J:3594:ARG:HG2	2.07	0.54
3:C:71:ARG:HD2	3:C:72:ASP:N	2.23	0.54
2:B:897:ARG:HD3	2:B:905:PRO:HD3	1.88	0.54
2:B:1032:LYS:HB3	2:B:1036:ARG:HH22	1.71	0.54
2:B:2863:SER:HA	2:B:2928:LYS:HG3	1.90	0.54
2:B:3107:VAL:HA	2:B:3175:LEU:HD21	1.89	0.54
2:E:2122:SER:O	2:E:2125:HIS:ND1	2.40	0.54
2:E:2585:THR:HA	2:E:2588:ARG:HD3	1.89	0.54
2:E:3349:ALA:HB1	2:E:3353:LEU:HD22	1.89	0.54
2:G:3340:VAL:HG22	2:G:3467:MET:HE1	1.90	0.54
3:K:6:GLU:HG3	3:K:121:THR:HG23	1.88	0.54
2:B:2599:GLN:O	2:B:2603:ILE:HG12	2.07	0.54
2:B:3805:LEU:HB3	2:B:3890:LEU:HD21	1.88	0.54
2:E:365:LYS:HE2	2:E:369:LEU:HD11	1.88	0.54
2:E:636:ASN:HB3	2:E:702:TRP:HZ2	1.72	0.54
2:E:2189:LYS:HA	2:E:2192:TYR:CZ	2.43	0.54
2:E:2685:SER:HA	2:E:2688:HIS:CD2	2.43	0.54
2:E:3767:GLN:HE22	2:E:3806:ASN:HB2	1.70	0.54
2:G:5004:THR:HG22	2:G:5007:GLU:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3093:ARG:O	2:J:3097:GLU:HG2	2.07	0.54
3:M:111:ASN:O	3:M:114:TYR:HB2	2.07	0.54
1:D:35:LYS:HE2	2:E:636:ASN:ND2	2.23	0.54
2:B:162:LYS:HZ2	2:E:3984:ARG:HH12	1.55	0.54
2:B:316:PHE:HB3	2:B:346:CYS:HB2	1.90	0.54
2:E:1740:PRO:HA	2:E:1743:ARG:HG2	1.89	0.54
2:G:3397:GLU:HA	2:G:3400:VAL:HG12	1.89	0.54
2:J:1819:VAL:HB	2:J:1865:MET:HE1	1.90	0.54
2:J:2685:SER:HA	2:J:2688:HIS:CD2	2.42	0.54
2:J:2724:GLU:HG3	2:J:2725:LYS:HG3	1.88	0.54
2:J:3340:VAL:HG22	2:J:3467:MET:HE1	1.90	0.54
3:F:71:ARG:HD2	3:F:72:ASP:N	2.23	0.54
3:K:71:ARG:HD2	3:K:72:ASP:N	2.23	0.54
3:K:72:ASP:OD1	3:K:77:THR:OG1	2.25	0.54
1:A:68:LEU:HG	1:A:103:LEU:HG	1.88	0.54
1:I:35:LYS:HE2	2:J:636:ASN:ND2	2.22	0.54
2:E:232:THR:HG22	2:E:258:SER:HB3	1.88	0.54
2:E:545:ASP:OD1	2:E:582:HIS:NE2	2.40	0.54
2:E:1032:LYS:HB3	2:E:1036:ARG:HH22	1.71	0.54
2:E:1771:LEU:HD11	2:E:2149:VAL:HG12	1.90	0.54
2:E:2863:SER:HA	2:E:2928:LYS:HG3	1.90	0.54
2:E:3340:VAL:HG22	2:E:3467:MET:HE1	1.90	0.54
2:J:545:ASP:OD1	2:J:582:HIS:NE2	2.40	0.54
2:J:2189:LYS:HA	2:J:2192:TYR:CZ	2.43	0.54
3:C:105:ASN:ND2	3:C:111:ASN:HB2	2.17	0.54
3:F:6:GLU:HG3	3:F:121:THR:HG23	1.88	0.54
3:F:51:ILE:O	3:F:71:ARG:NH2	2.35	0.54
3:K:111:ASN:O	3:K:114:TYR:HB2	2.07	0.54
2:B:1740:PRO:HA	2:B:1743:ARG:HG2	1.89	0.54
2:B:1819:VAL:HB	2:B:1865:MET:HE1	1.90	0.54
2:B:2685:SER:HA	2:B:2688:HIS:CD2	2.42	0.54
2:B:3057:PHE:HB2	2:B:3060:ASP:HB2	1.90	0.54
2:E:875:ALA:O	2:E:879:HIS:ND1	2.41	0.54
2:G:308:HIS:O	2:G:312:THR:OG1	2.25	0.54
2:G:647:ASN:HD22	2:G:822:ARG:HG2	1.71	0.54
2:G:1005:TRP:HE1	2:G:1016:ARG:HH21	1.53	0.54
2:G:2330:ARG:O	2:G:2334:PHE:HD2	1.90	0.54
2:J:394:GLN:HG2	2:J:396:GLU:H	1.73	0.54
2:J:783:PHE:HB2	2:J:787:VAL:HG21	1.88	0.54
2:J:2599:GLN:O	2:J:2603:ILE:HG12	2.07	0.54
3:C:36:TRP:HB3	3:C:48:VAL:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1130:GLN:HG2	2:B:1138:PRO:HA	1.90	0.54
2:B:4767:TRP:O	2:B:4771:ILE:HG12	2.08	0.54
2:E:2330:ARG:O	2:E:2334:PHE:HD2	1.90	0.54
2:E:2599:GLN:O	2:E:2603:ILE:HG12	2.07	0.54
2:E:3057:PHE:HB2	2:E:3060:ASP:HB2	1.90	0.54
2:G:2685:SER:HA	2:G:2688:HIS:CD2	2.43	0.54
2:G:3189:ALA:HA	2:G:3192:GLU:HG2	1.89	0.54
2:G:3416:VAL:HG23	2:G:3423:TRP:HZ3	1.72	0.54
2:G:4767:TRP:O	2:G:4771:ILE:HG12	2.08	0.54
2:J:875:ALA:O	2:J:879:HIS:ND1	2.41	0.54
2:J:2544:THR:HG22	2:J:2546:MET:H	1.72	0.54
2:J:2863:SER:HA	2:J:2928:LYS:HG3	1.90	0.54
2:J:3589:PRO:HA	2:J:3592:ILE:HD12	1.90	0.54
2:B:3713:LYS:HZ1	2:B:3717:ASP:H	1.56	0.54
2:E:3589:PRO:HA	2:E:3592:ILE:HD12	1.90	0.54
2:G:2585:THR:HA	2:G:2588:ARG:HD3	1.89	0.54
2:J:2122:SER:O	2:J:2125:HIS:ND1	2.40	0.54
2:J:3197:LEU:O	2:J:3201:MET:HG2	2.08	0.54
2:J:3533:ILE:HG22	2:J:3537:LYS:NZ	2.23	0.54
2:B:3340:VAL:HG22	2:B:3467:MET:HE1	1.90	0.54
2:B:3533:ILE:HG22	2:B:3537:LYS:NZ	2.23	0.54
2:B:5004:THR:HG22	2:B:5007:GLU:HG2	1.88	0.54
2:E:867:LEU:O	2:E:871:ARG:HB3	2.08	0.54
2:E:1130:GLN:HG2	2:E:1138:PRO:HA	1.90	0.54
2:E:2258:LEU:HD21	2:E:2298:VAL:HG13	1.90	0.54
2:E:3547:GLU:O	2:E:3551:GLU:HG2	2.08	0.54
2:E:4767:TRP:O	2:E:4771:ILE:HG12	2.08	0.54
2:G:867:LEU:O	2:G:871:ARG:HB3	2.08	0.54
2:J:3524:MET:HA	2:J:3582:ARG:HH12	1.71	0.54
2:J:3865:VAL:HG12	2:J:3867:ASN:H	1.73	0.54
2:B:1122:TYR:HD2	2:B:1160:ILE:HD12	1.73	0.53
2:B:1771:LEU:HD11	2:B:2149:VAL:HG12	1.90	0.53
2:B:2238:TYR:O	2:B:2242:ILE:HG12	2.08	0.53
2:B:2950:SER:HA	2:B:2953:LYS:HB2	1.90	0.53
2:E:1294:PRO:HB2	2:E:1547:LYS:HB2	1.91	0.53
2:G:875:ALA:O	2:G:879:HIS:ND1	2.41	0.53
2:G:1771:LEU:HD11	2:G:2149:VAL:HG12	1.90	0.53
2:G:2544:THR:HG22	2:G:2546:MET:H	1.72	0.53
2:G:3107:VAL:HA	2:G:3175:LEU:HD21	1.89	0.53
2:J:1730:MET:HE1	2:J:1772:ARG:HD2	1.89	0.53
2:J:1849:LEU:HG	2:J:1945:TYR:CE1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:545:ASP:OD1	2:B:582:HIS:NE2	2.40	0.53
2:B:1294:PRO:HB2	2:B:1547:LYS:HB2	1.91	0.53
2:B:1698:LEU:HG	2:B:1712:TYR:CZ	2.43	0.53
2:B:2189:LYS:HA	2:B:2192:TYR:CZ	2.43	0.53
2:B:3865:VAL:HG12	2:B:3867:ASN:H	1.73	0.53
2:G:1698:LEU:HG	2:G:1712:TYR:CZ	2.43	0.53
2:G:1730:MET:HE1	2:G:1772:ARG:HD2	1.89	0.53
2:G:1819:VAL:HB	2:G:1865:MET:HE1	1.90	0.53
2:G:2950:SER:HA	2:G:2953:LYS:HB2	1.90	0.53
2:G:3197:LEU:O	2:G:3201:MET:HG2	2.08	0.53
2:G:4024:VAL:O	2:G:4027:LEU:HG	2.09	0.53
2:J:2258:LEU:HD21	2:J:2298:VAL:HG13	1.90	0.53
2:J:2330:ARG:O	2:J:2334:PHE:HD2	1.90	0.53
2:J:2711:PRO:HG2	2:J:2714:TYR:HB2	1.89	0.53
3:F:109:THR:HA	3:F:112:ASP:HB2	1.91	0.53
3:M:6:GLU:HG3	3:M:121:THR:HG23	1.88	0.53
2:B:224:HIS:HB2	2:B:226:HIS:CE1	2.43	0.53
2:B:2330:ARG:O	2:B:2334:PHE:HD2	1.90	0.53
2:B:3592:ILE:HG12	2:B:3595:ARG:HH21	1.73	0.53
2:E:1122:TYR:HD2	2:E:1160:ILE:HD12	1.73	0.53
2:E:1819:VAL:HB	2:E:1865:MET:HE1	1.90	0.53
2:G:224:HIS:HB2	2:G:226:HIS:CE1	2.43	0.53
2:G:1862:ILE:O	2:G:1866:ILE:HG12	2.09	0.53
2:G:2711:PRO:HG2	2:G:2714:TYR:HB2	1.89	0.53
2:G:3349:ALA:HB1	2:G:3353:LEU:HD22	1.89	0.53
2:G:3752:SER:HB2	2:G:3755:GLU:HG3	1.90	0.53
2:J:224:HIS:HB2	2:J:226:HIS:CE1	2.44	0.53
2:J:867:LEU:O	2:J:871:ARG:HB3	2.08	0.53
2:J:1862:ILE:O	2:J:1866:ILE:HG12	2.09	0.53
2:J:3547:GLU:O	2:J:3551:GLU:HG2	2.08	0.53
2:J:3592:ILE:HG12	2:J:3595:ARG:HH21	1.73	0.53
3:F:36:TRP:HB3	3:F:48:VAL:HB	1.90	0.53
3:M:38:ARG:HG3	3:M:46:GLU:HG3	1.91	0.53
2:E:3107:VAL:HA	2:E:3175:LEU:HD21	1.89	0.53
2:E:4872:PRO:HB2	2:E:4874:MET:HE3	1.90	0.53
2:G:668:VAL:O	2:G:741:GLU:N	2.41	0.53
2:J:1430:THR:HG23	2:J:1573:MET:HE2	1.91	0.53
2:J:1698:LEU:HG	2:J:1712:TYR:CZ	2.43	0.53
2:J:1771:LEU:HD11	2:J:2149:VAL:HG12	1.90	0.53
2:B:668:VAL:O	2:B:741:GLU:N	2.41	0.53
2:B:3197:LEU:O	2:B:3201:MET:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3349:ALA:HB1	2:B:3353:LEU:HD22	1.89	0.53
2:E:394:GLN:HG2	2:E:396:GLU:H	1.73	0.53
2:E:668:VAL:O	2:E:741:GLU:N	2.41	0.53
2:E:2754:PHE:HE2	2:E:2813:LEU:HD11	1.72	0.53
2:G:316:PHE:HB3	2:G:346:CYS:HB2	1.90	0.53
2:G:394:GLN:HG2	2:G:396:GLU:H	1.73	0.53
2:G:1122:TYR:HD2	2:G:1160:ILE:HD12	1.73	0.53
2:G:3533:ILE:HG22	2:G:3537:LYS:NZ	2.23	0.53
2:G:3547:GLU:O	2:G:3551:GLU:HG2	2.08	0.53
2:G:4872:PRO:HB2	2:G:4874:MET:HE3	1.90	0.53
2:J:316:PHE:HB3	2:J:346:CYS:HB2	1.90	0.53
2:J:668:VAL:O	2:J:741:GLU:N	2.41	0.53
2:J:3057:PHE:HB2	2:J:3060:ASP:HB2	1.90	0.53
2:J:4024:VAL:HA	2:J:4027:LEU:HG	1.91	0.53
2:J:4207:MET:HG2	2:J:4208:PRO:HD2	1.91	0.53
3:M:71:ARG:HD2	3:M:72:ASP:N	2.23	0.53
2:B:103:TYR:HB2	2:B:160:GLY:H	1.72	0.53
2:B:3589:PRO:HA	2:B:3592:ILE:HD12	1.90	0.53
2:B:4024:VAL:O	2:B:4027:LEU:HG	2.09	0.53
2:E:1087:ARG:HG2	2:E:1154:ASP:OD1	2.09	0.53
2:E:4024:VAL:O	2:E:4027:LEU:HG	2.09	0.53
2:G:2863:SER:HA	2:G:2928:LYS:HG3	1.90	0.53
2:G:4961:CYS:HA	2:G:5025:GLY:H	1.74	0.53
2:J:248:GLU:CB	2:J:373:LYS:HD2	2.32	0.53
2:J:2754:PHE:HE2	2:J:2813:LEU:HD11	1.72	0.53
2:E:224:HIS:HB2	2:E:226:HIS:CE1	2.43	0.53
2:J:1087:ARG:HG2	2:J:1154:ASP:OD1	2.09	0.53
2:J:3904:ARG:NH1	2:J:3976:ASN:OD1	2.33	0.53
2:J:4767:TRP:O	2:J:4771:ILE:HG12	2.08	0.53
3:K:109:THR:HA	3:K:112:ASP:HB2	1.90	0.53
3:M:36:TRP:HB3	3:M:48:VAL:HB	1.90	0.53
2:B:394:GLN:HG2	2:B:396:GLU:H	1.73	0.53
2:B:1087:ARG:HG2	2:B:1154:ASP:OD1	2.09	0.53
2:B:2751:LEU:O	2:B:2755:ILE:HG12	2.09	0.53
2:B:3752:SER:HB2	2:B:3755:GLU:HG3	1.90	0.53
2:E:1430:THR:HG23	2:E:1573:MET:HE2	1.91	0.53
2:E:3197:LEU:O	2:E:3201:MET:HG2	2.08	0.53
2:E:3533:ILE:HG22	2:E:3537:LYS:NZ	2.23	0.53
2:G:530:ILE:HD11	2:G:563:VAL:HG23	1.91	0.53
2:G:663:TYR:HD1	2:G:747:CYS:HB3	1.74	0.53
2:G:1294:PRO:HB2	2:G:1547:LYS:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2189:LYS:HA	2:G:2192:TYR:CZ	2.43	0.53
2:J:4024:VAL:O	2:J:4027:LEU:HG	2.09	0.53
2:B:530:ILE:HD11	2:B:563:VAL:HG23	1.91	0.53
2:B:2230:THR:HG22	2:B:2234:ARG:HH11	1.74	0.53
2:B:4680:LYS:HB3	2:B:4686:LEU:HD22	1.91	0.53
2:E:663:TYR:HD1	2:E:747:CYS:HB3	1.74	0.53
2:E:1698:LEU:HG	2:E:1712:TYR:CZ	2.43	0.53
2:E:3865:VAL:HG12	2:E:3867:ASN:H	1.73	0.53
2:G:210:GLU:HG2	2:G:273:HIS:HE2	1.74	0.53
2:G:1130:GLN:HG2	2:G:1138:PRO:HA	1.90	0.53
2:G:1763:PRO:HB3	2:G:1950:GLU:HG2	1.91	0.53
2:G:2238:TYR:O	2:G:2242:ILE:HG12	2.08	0.53
2:J:1294:PRO:HB2	2:J:1547:LYS:HB2	1.90	0.53
2:J:2751:LEU:O	2:J:2755:ILE:HG12	2.09	0.53
1:D:22:CYS:SG	1:D:106:LEU:HD13	2.49	0.53
2:B:722:TRP:CE2	2:B:727:ALA:HB2	2.44	0.53
2:B:875:ALA:O	2:B:879:HIS:ND1	2.41	0.53
2:B:1862:ILE:O	2:B:1866:ILE:HG12	2.09	0.53
2:E:2152:THR:O	2:E:2156:LEU:HG	2.09	0.53
2:G:722:TRP:CE2	2:G:727:ALA:HB2	2.44	0.53
2:G:4207:MET:HG2	2:G:4208:PRO:HD2	1.91	0.53
2:G:4680:LYS:HB3	2:G:4686:LEU:HD22	1.91	0.53
2:J:308:HIS:O	2:J:312:THR:OG1	2.25	0.53
2:J:663:TYR:HD1	2:J:747:CYS:HB3	1.74	0.53
2:J:2123:LEU:O	2:J:2127:GLN:HG2	2.09	0.53
2:J:2152:THR:O	2:J:2156:LEU:HG	2.09	0.53
2:J:2238:TYR:O	2:J:2242:ILE:HG12	2.08	0.53
2:J:2950:SER:HA	2:J:2953:LYS:HB2	1.90	0.53
2:B:248:GLU:CB	2:B:373:LYS:HD2	2.31	0.52
2:B:3961:VAL:O	2:B:3965:LEU:HG	2.09	0.52
2:E:2230:THR:HG22	2:E:2234:ARG:HH11	1.74	0.52
2:E:2238:TYR:O	2:E:2242:ILE:HG12	2.08	0.52
2:E:3752:SER:HB2	2:E:3755:GLU:HG3	1.90	0.52
2:E:4211:LYS:NZ	5:E:5102:ATP:O3G	2.39	0.52
2:G:360:ALA:O	2:G:361:ALA:C	2.52	0.52
2:G:753:PRO:O	2:G:769:GLU:HA	2.09	0.52
2:G:3592:ILE:HG12	2:G:3595:ARG:HH21	1.73	0.52
2:J:4809:PHE:HA	2:J:4812:HIS:HD2	1.74	0.52
3:C:38:ARG:HG3	3:C:46:GLU:HG3	1.91	0.52
2:B:2258:LEU:HD21	2:B:2298:VAL:HG13	1.90	0.52
2:E:578:ILE:HG13	2:E:606:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3775:ALA:HA	2:E:3778:MET:HG3	1.92	0.52
2:G:545:ASP:OD1	2:G:582:HIS:NE2	2.40	0.52
2:G:2152:THR:O	2:G:2156:LEU:HG	2.09	0.52
2:G:3057:PHE:HB2	2:G:3060:ASP:HB2	1.90	0.52
2:J:421:PHE:HB3	2:J:431:PRO:HB3	1.91	0.52
2:J:753:PRO:O	2:J:769:GLU:HA	2.09	0.52
2:J:1130:GLN:HG2	2:J:1138:PRO:HA	1.90	0.52
2:J:3752:SER:HB2	2:J:3755:GLU:HG3	1.90	0.52
2:J:4211:LYS:NZ	5:J:5102:ATP:O3G	2.39	0.52
3:M:89:ASP:HB2	3:M:125:VAL:HG21	1.92	0.52
1:A:22:CYS:SG	1:A:106:LEU:HD13	2.49	0.52
2:B:2123:LEU:O	2:B:2127:GLN:HG2	2.09	0.52
2:B:2323:TRP:CZ2	2:B:2422:ILE:HG23	2.44	0.52
2:B:3003:LEU:HB2	2:B:3004:PRO:HD3	1.92	0.52
2:B:3547:GLU:O	2:B:3551:GLU:HG2	2.08	0.52
2:B:4872:PRO:HB2	2:B:4874:MET:HE3	1.90	0.52
2:B:4961:CYS:HA	2:B:5025:GLY:H	1.73	0.52
2:E:169:LEU:HB2	2:E:202:MET:HE3	1.92	0.52
2:E:349:GLN:HE21	2:E:354:GLY:HA2	1.75	0.52
2:E:753:PRO:O	2:E:769:GLU:HA	2.09	0.52
2:E:951:LYS:HD2	2:E:970:LEU:HD22	1.91	0.52
2:E:4207:MET:HG2	2:E:4208:PRO:HD2	1.91	0.52
2:G:349:GLN:HE21	2:G:354:GLY:HA2	1.75	0.52
2:G:3589:PRO:HA	2:G:3592:ILE:HD12	1.90	0.52
2:J:210:GLU:HG2	2:J:273:HIS:HE2	1.74	0.52
2:J:578:ILE:HG13	2:J:606:LEU:HD22	1.91	0.52
2:J:2626:LEU:HD22	2:J:2640:PRO:HB3	1.92	0.52
2:J:2781:VAL:HA	2:J:2789:PRO:HB2	1.92	0.52
2:J:4961:CYS:HA	2:J:5025:GLY:H	1.73	0.52
3:F:72:ASP:OD1	3:F:77:THR:OG1	2.25	0.52
2:B:1763:PRO:HB3	2:B:1950:GLU:HG2	1.91	0.52
2:E:1104:TRP:HB3	2:E:1188:PHE:HB3	1.91	0.52
2:E:1862:ILE:O	2:E:1866:ILE:HG12	2.09	0.52
2:E:2323:TRP:CZ2	2:E:2422:ILE:HG23	2.44	0.52
2:E:2973:PHE:HA	2:E:2976:HIS:ND1	2.24	0.52
2:E:3003:LEU:HB2	2:E:3004:PRO:HD3	1.92	0.52
2:G:1122:TYR:CE2	2:G:1182:ILE:HG12	2.45	0.52
2:G:2781:VAL:HA	2:G:2789:PRO:HB2	1.92	0.52
2:J:642:THR:HG21	2:J:1615:VAL:HG21	1.92	0.52
2:J:951:LYS:HD2	2:J:970:LEU:HD22	1.91	0.52
3:C:102:ASN:HB2	3:C:104:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:36:TRP:HB3	3:K:48:VAL:HB	1.90	0.52
3:K:38:ARG:HG3	3:K:46:GLU:HG3	1.91	0.52
1:I:22:CYS:SG	1:I:106:LEU:HD13	2.49	0.52
2:B:246:TYR:HB2	2:B:373:LYS:CE	2.39	0.52
2:B:2973:PHE:HA	2:B:2976:HIS:ND1	2.24	0.52
2:E:1763:PRO:HB3	2:E:1950:GLU:HG2	1.91	0.52
2:E:2123:LEU:O	2:E:2127:GLN:HG2	2.09	0.52
2:E:3166:TYR:OH	2:E:3240:CYS:HB2	2.10	0.52
2:E:3592:ILE:HG12	2:E:3595:ARG:HH21	1.73	0.52
2:G:553:ARG:HA	2:G:553:ARG:NH1	2.25	0.52
2:G:1430:THR:HG23	2:G:1573:MET:HE2	1.91	0.52
2:G:2751:LEU:O	2:G:2755:ILE:HG12	2.09	0.52
2:G:3713:LYS:HZ1	2:G:3716:LEU:HD12	1.74	0.52
2:J:553:ARG:NH1	2:J:553:ARG:HA	2.25	0.52
2:J:1122:TYR:HD2	2:J:1160:ILE:HD12	1.73	0.52
2:J:3166:TYR:OH	2:J:3240:CYS:HB2	2.10	0.52
2:J:4017:LEU:HD12	2:J:4135:PRO:HB2	1.92	0.52
3:K:89:ASP:HB2	3:K:125:VAL:HG21	1.92	0.52
2:B:169:LEU:HB2	2:B:202:MET:HE3	1.92	0.52
2:B:578:ILE:HG13	2:B:606:LEU:HD22	1.91	0.52
2:B:663:TYR:HD1	2:B:747:CYS:HB3	1.74	0.52
2:B:867:LEU:O	2:B:871:ARG:HB3	2.08	0.52
2:B:2330:ARG:O	2:B:2334:PHE:CD2	2.63	0.52
2:E:981:GLN:O	2:E:985:VAL:HG23	2.10	0.52
2:E:1453:VAL:HG22	2:E:1551:ALA:HB2	1.91	0.52
2:E:2950:SER:HA	2:E:2953:LYS:HB2	1.90	0.52
2:E:3961:VAL:O	2:E:3965:LEU:HG	2.09	0.52
2:E:4666:VAL:O	2:E:4670:ILE:HG12	2.10	0.52
2:G:421:PHE:HB3	2:G:431:PRO:HB3	1.91	0.52
2:G:981:GLN:O	2:G:985:VAL:HG23	2.10	0.52
2:G:2258:LEU:HD21	2:G:2298:VAL:HG13	1.90	0.52
2:G:3455:GLU:OE1	2:G:3456:GLN:NE2	2.43	0.52
2:G:3961:VAL:O	2:G:3965:LEU:HG	2.10	0.52
2:G:4017:LEU:HD12	2:G:4135:PRO:HB2	1.92	0.52
2:J:169:LEU:HB2	2:J:202:MET:HE3	1.92	0.52
2:J:349:GLN:HE21	2:J:354:GLY:HA2	1.75	0.52
2:J:1453:VAL:HG22	2:J:1551:ALA:HB2	1.91	0.52
2:J:2230:THR:HG22	2:J:2234:ARG:HH11	1.74	0.52
3:M:102:ASN:HB2	3:M:104:TYR:CE2	2.44	0.52
2:B:753:PRO:O	2:B:769:GLU:HA	2.09	0.52
2:B:1453:VAL:HG22	2:B:1551:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3586:ALA:HA	2:B:3591:LYS:HD2	1.92	0.52
2:E:972:LEU:HB2	2:E:1044:ARG:HE	1.74	0.52
2:E:2751:LEU:O	2:E:2755:ILE:HG12	2.09	0.52
2:E:3455:GLU:OE1	2:E:3456:GLN:NE2	2.43	0.52
2:G:169:LEU:HB2	2:G:202:MET:HE3	1.92	0.52
2:G:660:GLY:HA2	2:G:750:LEU:HB2	1.92	0.52
2:G:1087:ARG:HG2	2:G:1154:ASP:OD1	2.09	0.52
2:G:2230:THR:HG22	2:G:2234:ARG:HH11	1.74	0.52
2:G:2330:ARG:O	2:G:2334:PHE:CD2	2.63	0.52
2:G:2626:LEU:HD22	2:G:2640:PRO:HB3	1.91	0.52
2:G:2888:ARG:NH1	2:G:2892:GLN:OE1	2.43	0.52
2:G:2973:PHE:HA	2:G:2976:HIS:ND1	2.24	0.52
2:G:3166:TYR:OH	2:G:3240:CYS:HB2	2.10	0.52
2:J:1763:PRO:HB3	2:J:1950:GLU:HG2	1.91	0.52
2:J:2611:CYS:O	2:J:2650:ARG:NH1	2.43	0.52
2:J:4872:PRO:HB2	2:J:4874:MET:HE3	1.90	0.52
3:F:21:SER:HA	3:F:78:VAL:O	2.10	0.52
1:A:68:LEU:C	1:A:70:GLN:H	2.18	0.52
1:H:35:LYS:HE2	2:G:636:ASN:ND2	2.24	0.52
2:B:951:LYS:HD2	2:B:970:LEU:HD22	1.91	0.52
2:B:3346:VAL:HG11	2:B:3414:ARG:HE	1.75	0.52
2:B:3775:ALA:HA	2:B:3778:MET:HG3	1.92	0.52
2:E:4680:LYS:HB3	2:E:4686:LEU:HD22	1.91	0.52
2:E:4878:ASP:OD1	2:E:4880:MET:HG3	2.10	0.52
2:G:3865:VAL:HG12	2:G:3867:ASN:H	1.73	0.52
2:G:4878:ASP:OD1	2:G:4880:MET:HG3	2.10	0.52
2:J:246:TYR:CD1	2:J:375:LYS:HA	2.45	0.52
2:J:950:LEU:HD22	2:J:969:PRO:HB2	1.92	0.52
2:J:1498:GLY:HA2	2:J:1501:VAL:HG12	1.92	0.52
2:J:2323:TRP:CZ2	2:J:2422:ILE:HG23	2.44	0.52
2:J:3003:LEU:HB2	2:J:3004:PRO:HD3	1.92	0.52
3:K:102:ASN:HB2	3:K:104:TYR:CE2	2.45	0.52
1:H:87:HIS:NE2	2:G:1786:LEU:HB2	2.25	0.52
2:B:349:GLN:HE21	2:B:354:GLY:HA2	1.75	0.52
2:B:972:LEU:HB2	2:B:1044:ARG:HE	1.75	0.52
2:B:3705:PHE:CE2	2:B:3729:MET:HE1	2.45	0.52
2:E:596:ASN:ND2	2:E:599:VAL:HG23	2.25	0.52
2:E:660:GLY:HA2	2:E:750:LEU:HB2	1.92	0.52
2:E:1008:SER:HB2	2:E:1017:ARG:NE	2.22	0.52
2:E:4809:PHE:HA	2:E:4812:HIS:HD2	1.74	0.52
2:G:972:LEU:HB2	2:G:1044:ARG:HE	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2123:LEU:O	2:G:2127:GLN:HG2	2.09	0.52
2:G:3346:VAL:HG11	2:G:3414:ARG:HE	1.75	0.52
2:J:660:GLY:HA2	2:J:750:LEU:HB2	1.92	0.52
2:J:1104:TRP:HB3	2:J:1188:PHE:HB3	1.91	0.52
3:C:21:SER:HA	3:C:78:VAL:O	2.10	0.52
3:C:109:THR:HA	3:C:112:ASP:HB2	1.92	0.52
2:B:553:ARG:NH1	2:B:553:ARG:HA	2.25	0.52
2:B:660:GLY:HA2	2:B:750:LEU:HB2	1.92	0.52
2:B:790:ARG:HG2	2:B:1624:LEU:O	2.10	0.52
2:B:1104:TRP:HB3	2:B:1188:PHE:HB3	1.91	0.52
2:B:1430:THR:HG23	2:B:1573:MET:HE2	1.91	0.52
2:B:1447:CYS:HB3	2:B:1555:LEU:HB3	1.91	0.52
2:B:3455:GLU:OE1	2:B:3456:GLN:NE2	2.43	0.52
2:E:421:PHE:HB3	2:E:431:PRO:HB3	1.91	0.52
2:E:1042:ALA:O	2:E:1046:LEU:HG	2.11	0.52
2:E:2888:ARG:NH1	2:E:2892:GLN:OE1	2.43	0.52
2:E:3368:ARG:O	2:E:3372:VAL:HG23	2.10	0.52
2:E:4961:CYS:HA	2:E:5025:GLY:H	1.74	0.52
2:G:548:VAL:HG21	2:G:582:HIS:CD2	2.45	0.52
2:G:1975:SER:O	2:G:1979:LEU:HG	2.10	0.52
2:G:3003:LEU:HB2	2:G:3004:PRO:HD3	1.92	0.52
2:G:4809:PHE:HA	2:G:4812:HIS:HD2	1.74	0.52
2:J:548:VAL:HG21	2:J:582:HIS:CD2	2.45	0.52
2:J:722:TRP:CE2	2:J:727:ALA:HB2	2.44	0.52
3:M:34:MET:HE3	3:M:35:GLY:O	2.10	0.52
1:H:22:CYS:SG	1:H:106:LEU:HD13	2.49	0.51
2:B:206:CYS:SG	2:B:271:GLY:N	2.79	0.51
2:B:421:PHE:HB3	2:B:431:PRO:HB3	1.91	0.51
2:B:3166:TYR:OH	2:B:3240:CYS:HB2	2.10	0.51
2:B:4207:MET:HG2	2:B:4208:PRO:HD2	1.91	0.51
2:E:553:ARG:NH1	2:E:553:ARG:HA	2.25	0.51
2:E:722:TRP:CE2	2:E:727:ALA:HB2	2.44	0.51
2:E:2299:VAL:HG12	2:E:2360:LYS:HD2	1.92	0.51
2:E:3586:ALA:HA	2:E:3591:LYS:HD2	1.92	0.51
2:G:596:ASN:ND2	2:G:599:VAL:HG23	2.25	0.51
2:G:642:THR:HG21	2:G:1615:VAL:HG21	1.92	0.51
2:G:858:THR:HG21	2:G:931:THR:HG22	1.92	0.51
2:G:950:LEU:HD22	2:G:969:PRO:HB2	1.92	0.51
2:G:1008:SER:HB2	2:G:1017:ARG:NE	2.22	0.51
2:G:1453:VAL:HG22	2:G:1551:ALA:HB2	1.91	0.51
2:G:1519:LEU:HD11	2:G:1572:ILE:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1042:ALA:O	2:J:1046:LEU:HG	2.11	0.51
2:J:4666:VAL:O	2:J:4670:ILE:HG12	2.10	0.51
2:B:100:THR:HG21	2:B:162:LYS:HD3	1.92	0.51
2:B:904:HIS:CD2	2:B:907:LEU:H	2.29	0.51
2:B:1245:PHE:HB2	2:B:1290:ARG:HH21	1.76	0.51
2:B:1519:LEU:HD11	2:B:1572:ILE:HD13	1.93	0.51
2:B:2152:THR:O	2:B:2156:LEU:HG	2.09	0.51
2:B:2792:ARG:H	2:B:2797:PHE:HD1	1.59	0.51
2:B:2888:ARG:NH1	2:B:2892:GLN:OE1	2.43	0.51
2:E:1749:PRO:HG2	2:E:1759:ARG:HD2	1.92	0.51
2:E:2626:LEU:HD22	2:E:2640:PRO:HB3	1.91	0.51
2:E:3313:ASN:OD1	2:E:3353:LEU:HD21	2.11	0.51
2:E:3705:PHE:CE2	2:E:3729:MET:HE1	2.45	0.51
2:E:3713:LYS:HZ1	2:E:3717:ASP:H	1.58	0.51
2:G:100:THR:HG21	2:G:162:LYS:HD3	1.92	0.51
2:G:645:ARG:HD3	2:G:826:ILE:HD13	1.93	0.51
2:G:1498:GLY:HA2	2:G:1501:VAL:HG12	1.92	0.51
2:G:3705:PHE:CE2	2:G:3729:MET:HE1	2.45	0.51
2:J:530:ILE:HD11	2:J:563:VAL:HG23	1.91	0.51
2:J:981:GLN:O	2:J:985:VAL:HG23	2.10	0.51
2:J:1749:PRO:HG2	2:J:1759:ARG:HD2	1.92	0.51
2:J:2973:PHE:HA	2:J:2976:HIS:ND1	2.24	0.51
2:J:3324:VAL:O	2:J:3327:LEU:HD22	2.11	0.51
2:J:3455:GLU:OE1	2:J:3456:GLN:NE2	2.43	0.51
2:J:4680:LYS:HB3	2:J:4686:LEU:HD22	1.91	0.51
3:F:38:ARG:HG3	3:F:46:GLU:HG3	1.91	0.51
2:B:981:GLN:O	2:B:985:VAL:HG23	2.10	0.51
2:B:4017:LEU:HD12	2:B:4135:PRO:HB2	1.92	0.51
2:B:4878:ASP:OD1	2:B:4880:MET:HG3	2.10	0.51
2:E:100:THR:HG21	2:E:162:LYS:HD3	1.92	0.51
2:E:645:ARG:HD3	2:E:826:ILE:HD13	1.93	0.51
2:E:1694:LEU:HD13	2:E:1715:LEU:HG	1.92	0.51
2:G:2323:TRP:CZ2	2:G:2422:ILE:HG23	2.44	0.51
2:G:3250:MET:HA	2:G:3253:ILE:HG22	1.92	0.51
2:G:3313:ASN:OD1	2:G:3353:LEU:HD21	2.11	0.51
2:G:4666:VAL:O	2:G:4670:ILE:HG12	2.10	0.51
2:J:1676:LEU:HD23	2:J:2168:VAL:HG22	1.93	0.51
3:F:102:ASN:HB2	3:F:104:TYR:CE2	2.45	0.51
2:B:219:VAL:HG12	2:B:261:ARG:HB2	1.93	0.51
2:B:2611:CYS:O	2:B:2650:ARG:NH1	2.43	0.51
2:B:3767:GLN:NE2	2:B:3806:ASN:HB2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1245:PHE:HB2	2:E:1290:ARG:HH21	1.76	0.51
2:E:3250:MET:HA	2:E:3253:ILE:HG22	1.92	0.51
2:G:790:ARG:HG2	2:G:1624:LEU:O	2.10	0.51
2:G:904:HIS:CD2	2:G:907:LEU:H	2.29	0.51
2:G:1749:PRO:HG2	2:G:1759:ARG:HD2	1.92	0.51
2:G:2974:ILE:HD13	2:G:3049:LEU:HD13	1.93	0.51
2:J:100:THR:HG21	2:J:162:LYS:HD3	1.92	0.51
2:J:2299:VAL:HG12	2:J:2360:LYS:HD2	1.92	0.51
2:J:2974:ILE:HD13	2:J:3049:LEU:HD13	1.93	0.51
2:J:3368:ARG:O	2:J:3372:VAL:HG23	2.10	0.51
2:J:3887:PHE:O	2:J:3891:LEU:HG	2.11	0.51
3:F:34:MET:HE3	3:F:35:GLY:O	2.10	0.51
3:K:21:SER:HA	3:K:78:VAL:O	2.10	0.51
1:H:3:GLU:HB3	1:H:75:THR:HG22	1.93	0.51
2:B:645:ARG:HD3	2:B:826:ILE:HD13	1.93	0.51
2:B:1676:LEU:HD23	2:B:2168:VAL:HG22	1.93	0.51
2:B:1749:PRO:HG2	2:B:1759:ARG:HD2	1.92	0.51
2:B:3546:ASP:OD1	2:B:3547:GLU:N	2.44	0.51
2:B:4809:PHE:HA	2:B:4812:HIS:HD2	1.74	0.51
2:E:219:VAL:HG12	2:E:261:ARG:HB2	1.93	0.51
2:E:1676:LEU:HD23	2:E:2168:VAL:HG22	1.93	0.51
2:G:1708:ARG:HH12	2:G:1841:VAL:HG23	1.76	0.51
2:G:2299:VAL:HG12	2:G:2360:LYS:HD2	1.92	0.51
2:G:3335:MET:HB3	2:G:3403:ARG:HD2	1.93	0.51
2:G:4846:VAL:O	2:G:4850:LEU:HG	2.11	0.51
2:J:1975:SER:O	2:J:1979:LEU:HG	2.10	0.51
2:J:3335:MET:HB3	2:J:3403:ARG:HD2	1.93	0.51
2:J:3705:PHE:CE2	2:J:3729:MET:HE1	2.45	0.51
2:J:4846:VAL:O	2:J:4850:LEU:HG	2.11	0.51
1:D:68:LEU:C	1:D:70:GLN:H	2.18	0.51
2:B:2299:VAL:HG12	2:B:2360:LYS:HD2	1.92	0.51
2:B:4211:LYS:NZ	5:B:5102:ATP:O3G	2.39	0.51
2:E:530:ILE:HD11	2:E:563:VAL:HG23	1.91	0.51
2:E:1519:LEU:HD11	2:E:1572:ILE:HD13	1.93	0.51
2:E:3346:VAL:HG11	2:E:3414:ARG:HE	1.75	0.51
2:E:3887:PHE:O	2:E:3891:LEU:HG	2.11	0.51
2:G:578:ILE:HG13	2:G:606:LEU:HD22	1.91	0.51
2:G:1013:ILE:H	2:G:1013:ILE:HD12	1.76	0.51
2:G:1104:TRP:HB3	2:G:1188:PHE:HB3	1.91	0.51
2:G:1245:PHE:HB2	2:G:1290:ARG:HH21	1.76	0.51
2:G:1694:LEU:HD13	2:G:1715:LEU:HG	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3586:ALA:HA	2:G:3591:LYS:HD2	1.92	0.51
2:G:3767:GLN:NE2	2:G:3806:ASN:HB2	2.26	0.51
2:G:3775:ALA:HA	2:G:3778:MET:HG3	1.92	0.51
2:G:3967:GLU:O	2:G:3970:GLN:HG2	2.11	0.51
2:J:470:SER:HA	2:J:473:ASN:HD21	1.76	0.51
2:J:1447:CYS:HB3	2:J:1555:LEU:HB3	1.91	0.51
2:J:2012:PHE:CZ	2:J:2031:LEU:HD23	2.46	0.51
2:J:2888:ARG:NH1	2:J:2892:GLN:OE1	2.43	0.51
2:J:3250:MET:HA	2:J:3253:ILE:HG22	1.92	0.51
2:J:3360:PRO:O	2:J:3364:ARG:HG2	2.11	0.51
2:J:3775:ALA:HA	2:J:3778:MET:HG3	1.92	0.51
2:J:4878:ASP:OD1	2:J:4880:MET:HG3	2.10	0.51
3:C:89:ASP:HB2	3:C:125:VAL:HG21	1.92	0.51
2:B:111:HIS:CE1	2:B:113:HIS:HB3	2.46	0.51
2:B:642:THR:HG21	2:B:1615:VAL:HG21	1.92	0.51
2:B:2323:TRP:HZ2	2:B:2422:ILE:HG23	1.75	0.51
2:B:2781:VAL:HA	2:B:2789:PRO:HB2	1.92	0.51
2:B:3368:ARG:O	2:B:3372:VAL:HG23	2.10	0.51
2:B:4666:VAL:O	2:B:4670:ILE:HG12	2.10	0.51
2:E:246:TYR:CD1	2:E:375:LYS:HA	2.46	0.51
2:E:276:TRP:CE2	2:E:339:ILE:HG12	2.46	0.51
2:E:2330:ARG:O	2:E:2334:PHE:CD2	2.63	0.51
2:E:2974:ILE:HD13	2:E:3049:LEU:HD13	1.93	0.51
2:E:4852:THR:HG21	2:E:4883:TYR:HA	1.93	0.51
2:G:111:HIS:CE1	2:G:113:HIS:HB3	2.46	0.51
2:G:470:SER:HA	2:G:473:ASN:HD21	1.76	0.51
2:G:3324:VAL:O	2:G:3327:LEU:HD22	2.11	0.51
2:J:904:HIS:CD2	2:J:907:LEU:H	2.29	0.51
2:J:972:LEU:HB2	2:J:1044:ARG:HE	1.75	0.51
2:J:1245:PHE:HB2	2:J:1290:ARG:HH21	1.76	0.51
2:J:1448:VAL:HG12	2:J:1554:VAL:HG23	1.93	0.51
2:J:4780:PHE:HA	2:J:4783:ILE:HG22	1.93	0.51
3:C:17:SER:HA	3:C:83:ASN:HA	1.93	0.51
3:C:71:ARG:HH11	3:C:73:ASN:N	2.09	0.51
3:K:34:MET:HE3	3:K:35:GLY:O	2.10	0.51
2:B:210:GLU:HG2	2:B:273:HIS:NE2	2.26	0.51
2:B:596:ASN:ND2	2:B:599:VAL:HG23	2.25	0.51
2:B:1013:ILE:H	2:B:1013:ILE:HD12	1.76	0.51
2:B:3313:ASN:OD1	2:B:3353:LEU:HD21	2.11	0.51
2:B:3514:LEU:O	2:B:3518:LEU:HB3	2.11	0.51
2:B:4064:MET:HE2	2:B:4064:MET:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:206:CYS:SG	2:E:271:GLY:N	2.79	0.51
2:E:858:THR:HG21	2:E:931:THR:HG22	1.92	0.51
2:E:1447:CYS:HB3	2:E:1555:LEU:HB3	1.91	0.51
2:E:2781:VAL:HA	2:E:2789:PRO:HB2	1.92	0.51
2:E:2792:ARG:H	2:E:2797:PHE:HD1	1.59	0.51
2:E:4064:MET:HE2	2:E:4064:MET:HA	1.93	0.51
2:E:4846:VAL:O	2:E:4850:LEU:HG	2.11	0.51
2:G:219:VAL:HG12	2:G:261:ARG:HB2	1.93	0.51
2:G:951:LYS:HD2	2:G:970:LEU:HD22	1.91	0.51
2:G:1042:ALA:O	2:G:1046:LEU:HG	2.11	0.51
2:G:4064:MET:HE2	2:G:4064:MET:HA	1.93	0.51
2:J:276:TRP:CE2	2:J:339:ILE:HG12	2.46	0.51
2:J:645:ARG:HD3	2:J:826:ILE:HD13	1.93	0.51
2:J:2330:ARG:O	2:J:2334:PHE:CD2	2.63	0.51
2:J:2799:GLU:O	2:J:2803:GLU:HG2	2.11	0.51
2:J:3313:ASN:OD1	2:J:3353:LEU:HD21	2.11	0.51
2:J:3384:LYS:HG2	2:J:3386:GLU:H	1.76	0.51
2:J:3713:LYS:HZ1	2:J:3717:ASP:H	1.59	0.51
3:F:8:GLY:HA3	3:F:20:LEU:HA	1.93	0.51
3:F:71:ARG:HH11	3:F:73:ASN:N	2.09	0.51
1:H:68:LEU:C	1:H:70:GLN:H	2.18	0.51
2:B:2626:LEU:HD22	2:B:2640:PRO:HB3	1.92	0.51
2:B:2888:ARG:HH11	2:B:2891:LYS:HZ1	1.58	0.51
2:B:3250:MET:HA	2:B:3253:ILE:HG22	1.92	0.51
2:B:3335:MET:HB3	2:B:3403:ARG:HD2	1.92	0.51
2:B:3887:PHE:O	2:B:3891:LEU:HG	2.11	0.51
2:E:229:GLU:OE2	2:E:374:LYS:HD2	2.11	0.51
2:E:1498:GLY:HA2	2:E:1501:VAL:HG12	1.92	0.51
2:E:2611:CYS:O	2:E:2650:ARG:NH1	2.43	0.51
2:E:4017:LEU:HD12	2:E:4135:PRO:HB2	1.92	0.51
2:G:229:GLU:OE2	2:G:374:LYS:HD2	2.11	0.51
2:G:2012:PHE:CZ	2:G:2031:LEU:HD23	2.46	0.51
2:G:3368:ARG:O	2:G:3372:VAL:HG23	2.10	0.51
2:G:4204:GLN:HE21	2:G:4248:ALA:HB3	1.76	0.51
2:J:229:GLU:OE2	2:J:374:LYS:HD2	2.11	0.51
2:J:248:GLU:HA	2:J:372:LEU:C	2.36	0.51
2:J:596:ASN:HD22	2:J:599:VAL:HG23	1.76	0.51
2:J:1694:LEU:HB3	2:J:1715:LEU:HD12	1.93	0.51
2:J:3080:VAL:O	2:J:3084:GLY:HA3	2.11	0.51
2:J:3346:VAL:HG11	2:J:3414:ARG:HE	1.75	0.51
2:J:3546:ASP:OD1	2:J:3547:GLU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3553:LEU:HB3	2:J:3593:VAL:HG12	1.92	0.51
2:J:4064:MET:HE2	2:J:4064:MET:HA	1.93	0.51
3:M:21:SER:HA	3:M:78:VAL:O	2.10	0.51
1:H:68:LEU:HA	1:H:103:LEU:HB3	1.93	0.51
2:B:229:GLU:OE2	2:B:374:LYS:HD2	2.10	0.51
2:B:470:SER:HA	2:B:473:ASN:HD21	1.76	0.51
2:B:596:ASN:HD22	2:B:599:VAL:HG23	1.76	0.51
2:B:858:THR:HG21	2:B:931:THR:HG22	1.92	0.51
2:B:2974:ILE:HD13	2:B:3049:LEU:HD13	1.93	0.51
2:B:3967:GLU:O	2:B:3970:GLN:HG2	2.11	0.51
2:B:3984:ARG:HH12	2:G:162:LYS:HZ2	1.57	0.51
2:E:470:SER:HA	2:E:473:ASN:HD21	1.76	0.51
2:E:904:HIS:CD2	2:E:907:LEU:H	2.29	0.51
2:E:1013:ILE:HD12	2:E:1013:ILE:H	1.76	0.51
2:E:1708:ARG:HH12	2:E:1841:VAL:HG23	1.76	0.51
2:G:2323:TRP:HZ2	2:G:2422:ILE:HG23	1.76	0.51
2:G:2792:ARG:H	2:G:2797:PHE:HD1	1.59	0.51
2:G:3360:PRO:O	2:G:3364:ARG:HG2	2.11	0.51
2:J:210:GLU:HG2	2:J:273:HIS:NE2	2.26	0.51
2:J:1519:LEU:HD11	2:J:1572:ILE:HD13	1.93	0.51
1:D:3:GLU:HB3	1:D:75:THR:HG22	1.93	0.50
2:B:276:TRP:CE2	2:B:339:ILE:HG12	2.46	0.50
2:B:1042:ALA:O	2:B:1046:LEU:HG	2.11	0.50
2:B:1975:SER:O	2:B:1979:LEU:HG	2.10	0.50
2:B:4852:THR:HG21	2:B:4883:TYR:HA	1.93	0.50
2:E:950:LEU:HD22	2:E:969:PRO:HB2	1.92	0.50
2:E:1694:LEU:HB3	2:E:1715:LEU:HD12	1.93	0.50
2:E:2355:ARG:O	2:E:2359:ARG:HG2	2.12	0.50
2:E:2799:GLU:O	2:E:2803:GLU:HG2	2.11	0.50
2:E:3360:PRO:O	2:E:3364:ARG:HG2	2.11	0.50
2:G:596:ASN:HD22	2:G:599:VAL:HG23	1.76	0.50
2:G:2380:ILE:O	2:G:2384:ILE:HG13	2.11	0.50
2:G:3887:PHE:O	2:G:3891:LEU:HG	2.11	0.50
2:J:492:ASP:OD1	2:J:546:TRP:NE1	2.40	0.50
2:J:2380:ILE:O	2:J:2384:ILE:HG13	2.11	0.50
3:C:8:GLY:HA3	3:C:20:LEU:HA	1.93	0.50
3:C:34:MET:HE3	3:C:35:GLY:O	2.10	0.50
3:F:89:ASP:HB2	3:F:125:VAL:HG21	1.92	0.50
1:D:68:LEU:HA	1:D:103:LEU:HB3	1.94	0.50
2:B:548:VAL:HG21	2:B:582:HIS:CD2	2.45	0.50
2:B:2012:PHE:CZ	2:B:2031:LEU:HD23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2136:ARG:O	2:B:2139:PRO:HD2	2.11	0.50
2:B:3080:VAL:O	2:B:3084:GLY:HA3	2.11	0.50
2:E:360:ALA:O	2:E:361:ALA:C	2.54	0.50
2:E:790:ARG:HG2	2:E:1624:LEU:O	2.11	0.50
2:E:2012:PHE:CZ	2:E:2031:LEU:HD23	2.46	0.50
2:E:2136:ARG:O	2:E:2139:PRO:HD2	2.11	0.50
2:E:3051:ARG:NH2	2:E:3101:GLU:OE2	2.45	0.50
2:E:3080:VAL:O	2:E:3084:GLY:HA3	2.11	0.50
2:E:3324:VAL:O	2:E:3327:LEU:HD22	2.11	0.50
2:G:1447:CYS:HB3	2:G:1555:LEU:HB3	1.91	0.50
2:G:3051:ARG:NH2	2:G:3101:GLU:OE2	2.45	0.50
2:J:1708:ARG:HH12	2:J:1841:VAL:HG23	1.76	0.50
2:J:2323:TRP:HZ2	2:J:2422:ILE:HG23	1.75	0.50
2:J:2382:GLU:O	2:J:2385:ARG:HG2	2.12	0.50
2:J:3586:ALA:HA	2:J:3591:LYS:HD2	1.92	0.50
1:I:3:GLU:HB3	1:I:75:THR:HG22	1.93	0.50
1:I:68:LEU:C	1:I:70:GLN:H	2.18	0.50
2:B:758:ARG:HH22	2:B:802:PHE:HB2	1.77	0.50
2:B:1708:ARG:HH12	2:B:1841:VAL:HG23	1.76	0.50
2:B:3051:ARG:NH2	2:B:3101:GLU:OE2	2.45	0.50
2:B:4904:PRO:HB2	2:B:4910:GLU:HA	1.94	0.50
2:E:58:VAL:HG12	2:E:305:CYS:HA	1.93	0.50
2:E:103:TYR:HB2	2:E:159:GLU:HA	1.93	0.50
2:E:111:HIS:CE1	2:E:113:HIS:HB3	2.46	0.50
2:E:1448:VAL:HG12	2:E:1554:VAL:HG23	1.93	0.50
2:E:3553:LEU:HB3	2:E:3593:VAL:HG12	1.92	0.50
2:E:3767:GLN:NE2	2:E:3806:ASN:HB2	2.26	0.50
2:E:3967:GLU:O	2:E:3970:GLN:HG2	2.11	0.50
2:E:4780:PHE:HA	2:E:4783:ILE:HG22	1.93	0.50
2:G:2924:GLN:O	2:G:2928:LYS:HG2	2.12	0.50
2:G:3788:GLY:HA3	2:G:3834:ALA:HB3	1.93	0.50
2:J:219:VAL:HG12	2:J:261:ARG:HB2	1.93	0.50
2:J:1694:LEU:HD13	2:J:1715:LEU:HG	1.92	0.50
2:J:2605:ASP:HA	2:J:2608:MET:HE2	1.94	0.50
2:J:4204:GLN:HE21	2:J:4248:ALA:HB3	1.76	0.50
3:M:71:ARG:HH11	3:M:73:ASN:N	2.09	0.50
2:B:246:TYR:CD1	2:B:375:LYS:HA	2.46	0.50
2:B:2605:ASP:HA	2:B:2608:MET:HE2	1.94	0.50
2:B:3788:GLY:HA3	2:B:3834:ALA:HB3	1.94	0.50
2:E:642:THR:HG21	2:E:1615:VAL:HG21	1.92	0.50
2:E:2323:TRP:HZ2	2:E:2422:ILE:HG23	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2759:ALA:HB2	2:E:2810:LYS:HZ1	1.77	0.50
2:E:3514:LEU:O	2:E:3518:LEU:HB3	2.11	0.50
2:E:4904:PRO:HB2	2:E:4910:GLU:HA	1.94	0.50
2:G:2382:GLU:O	2:G:2385:ARG:HG2	2.12	0.50
2:G:2605:ASP:HA	2:G:2608:MET:HE2	1.94	0.50
2:G:3514:LEU:O	2:G:3518:LEU:HB3	2.11	0.50
2:G:3553:LEU:HB3	2:G:3593:VAL:HG12	1.92	0.50
2:G:3906:GLN:HB3	2:G:3909:ASN:HD22	1.77	0.50
2:G:4780:PHE:HA	2:G:4783:ILE:HG22	1.93	0.50
2:J:1013:ILE:H	2:J:1013:ILE:HD12	1.76	0.50
2:J:2792:ARG:H	2:J:2797:PHE:HD1	1.59	0.50
2:J:4044:MET:O	2:J:4048:LEU:HG	2.12	0.50
2:B:58:VAL:HG12	2:B:305:CYS:HA	1.93	0.50
2:B:280:LEU:HD21	2:B:316:PHE:CE2	2.47	0.50
2:B:950:LEU:HD22	2:B:969:PRO:HB2	1.92	0.50
2:B:1735:ILE:HD11	2:B:2156:LEU:HD11	1.93	0.50
2:B:3324:VAL:O	2:B:3327:LEU:HD22	2.11	0.50
2:B:3906:GLN:HB3	2:B:3909:ASN:HD22	1.77	0.50
2:B:4204:GLN:HE21	2:B:4248:ALA:HB3	1.76	0.50
2:E:548:VAL:HG21	2:E:582:HIS:CD2	2.45	0.50
2:E:592:LYS:HG2	2:E:1580:PHE:CE1	2.47	0.50
2:E:1177:THR:OG1	2:E:1180:ARG:NH2	2.45	0.50
2:E:2124:LEU:HG	2:E:2128:TYR:CE2	2.47	0.50
2:G:1676:LEU:HD23	2:G:2168:VAL:HG22	1.93	0.50
2:G:1694:LEU:HB3	2:G:1715:LEU:HD12	1.93	0.50
2:G:3984:ARG:HH12	2:J:162:LYS:HZ2	1.57	0.50
2:G:4852:THR:HG21	2:G:4883:TYR:HA	1.93	0.50
2:J:596:ASN:ND2	2:J:599:VAL:HG23	2.25	0.50
2:J:1122:TYR:CE2	2:J:1182:ILE:HG12	2.44	0.50
2:J:3767:GLN:NE2	2:J:3806:ASN:HB2	2.26	0.50
1:A:68:LEU:HA	1:A:103:LEU:HB3	1.94	0.50
1:I:68:LEU:HA	1:I:103:LEU:HB3	1.93	0.50
2:B:2382:GLU:O	2:B:2385:ARG:HG2	2.12	0.50
2:B:3540:TYR:HB3	2:B:3604:TYR:CD2	2.47	0.50
2:E:2382:GLU:O	2:E:2385:ARG:HG2	2.12	0.50
2:E:2605:ASP:HA	2:E:2608:MET:HE2	1.94	0.50
2:G:103:TYR:HB2	2:G:159:GLU:HA	1.93	0.50
2:G:276:TRP:CE2	2:G:339:ILE:HG12	2.46	0.50
2:G:993:HIS:CE1	2:G:1027:LEU:HD11	2.47	0.50
2:G:1448:VAL:HG12	2:G:1554:VAL:HG23	1.93	0.50
2:G:1653:LEU:HA	2:G:1656:ARG:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:592:LYS:HG2	2:J:1580:PHE:CE1	2.47	0.50
2:J:3261:ALA:HB1	2:J:3265:GLU:HB2	1.94	0.50
3:K:8:GLY:HA3	3:K:20:LEU:HA	1.93	0.50
3:K:17:SER:HA	3:K:83:ASN:HA	1.93	0.50
3:K:71:ARG:HH11	3:K:73:ASN:N	2.09	0.50
2:B:1008:SER:HB2	2:B:1017:ARG:NE	2.22	0.50
2:B:1694:LEU:HD13	2:B:1715:LEU:HG	1.92	0.50
2:B:1694:LEU:HB3	2:B:1715:LEU:HD12	1.93	0.50
2:B:2124:LEU:HG	2:B:2128:TYR:CE2	2.47	0.50
2:B:3378:GLN:HA	2:B:3381:LEU:HD23	1.94	0.50
2:B:3553:LEU:HB3	2:B:3593:VAL:HG12	1.92	0.50
2:E:1975:SER:O	2:E:1979:LEU:HG	2.10	0.50
2:E:3261:ALA:HB1	2:E:3265:GLU:HB2	1.94	0.50
2:G:210:GLU:HG2	2:G:273:HIS:NE2	2.26	0.50
2:G:1578:ALA:HA	2:G:1584:ARG:HH12	1.77	0.50
2:G:3547:GLU:HA	2:G:3550:ARG:HD2	1.94	0.50
2:J:111:HIS:CE1	2:J:113:HIS:HB3	2.46	0.50
2:J:360:ALA:O	2:J:361:ALA:C	2.53	0.50
2:J:758:ARG:HH22	2:J:802:PHE:HB2	1.77	0.50
2:J:2669:GLU:HA	2:J:2672:LEU:HD13	1.94	0.50
2:J:3051:ARG:NH2	2:J:3101:GLU:OE2	2.45	0.50
1:D:25:HIS:CE1	1:D:45:PRO:HB3	2.47	0.50
2:B:1177:THR:OG1	2:B:1180:ARG:NH2	2.45	0.50
2:B:2924:GLN:O	2:B:2928:LYS:HG2	2.12	0.50
2:B:3360:PRO:O	2:B:3364:ARG:HG2	2.11	0.50
2:B:3780:LEU:HD11	2:B:3816:MET:HE2	1.94	0.50
2:E:210:GLU:HG2	2:E:273:HIS:NE2	2.26	0.50
2:E:3442:PHE:HB2	2:E:3513:THR:HG21	1.94	0.50
2:E:4204:GLN:HE21	2:E:4248:ALA:HB3	1.76	0.50
2:J:790:ARG:HG2	2:J:1624:LEU:O	2.11	0.50
2:J:3514:LEU:O	2:J:3518:LEU:HB3	2.11	0.50
2:J:3534:MET:HE3	2:J:3534:MET:O	2.12	0.50
2:J:3906:GLN:HB3	2:J:3909:ASN:HD22	1.77	0.50
3:F:71:ARG:HA	3:F:77:THR:O	2.12	0.50
1:A:25:HIS:CE1	1:A:45:PRO:HB3	2.47	0.50
2:B:1498:GLY:HA2	2:B:1501:VAL:HG12	1.92	0.50
2:B:3900:GLN:HB3	2:B:3976:ASN:ND2	2.27	0.50
2:B:4780:PHE:HA	2:B:4783:ILE:HG22	1.93	0.50
2:B:4846:VAL:O	2:B:4850:LEU:HG	2.11	0.50
2:E:246:TYR:CB	2:E:373:LYS:HE3	2.39	0.50
2:E:2002:PRO:HB2	2:E:3652:MET:HE1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:58:VAL:HG12	2:G:305:CYS:HA	1.93	0.50
2:G:206:CYS:SG	2:G:271:GLY:N	2.79	0.50
2:G:214:VAL:HA	2:G:341:TYR:HD1	1.76	0.50
2:G:2124:LEU:HG	2:G:2128:TYR:CE2	2.47	0.50
2:G:3080:VAL:O	2:G:3084:GLY:HA3	2.11	0.50
2:G:3384:LYS:HG2	2:G:3386:GLU:H	1.76	0.50
2:G:3900:GLN:HB3	2:G:3976:ASN:ND2	2.27	0.50
2:J:745:SER:HB2	2:J:758:ARG:HB3	1.94	0.50
2:J:993:HIS:CE1	2:J:1027:LEU:HD11	2.47	0.50
2:J:1177:THR:OG1	2:J:1180:ARG:NH2	2.45	0.50
2:J:1653:LEU:HA	2:J:1656:ARG:HB2	1.94	0.50
2:J:1680:ARG:HA	2:J:1797:ARG:HD3	1.94	0.50
3:M:17:SER:HA	3:M:83:ASN:HA	1.93	0.50
3:M:38:ARG:HH21	3:M:62:SER:HB2	1.76	0.50
3:M:71:ARG:HA	3:M:77:THR:O	2.12	0.50
3:M:72:ASP:OD1	3:M:77:THR:OG1	2.25	0.50
2:B:993:HIS:CE1	2:B:1027:LEU:HD11	2.47	0.49
2:B:4044:MET:O	2:B:4048:LEU:HG	2.12	0.49
2:E:2619:LEU:O	2:E:2623:LEU:HG	2.12	0.49
2:E:3378:GLN:HA	2:E:3381:LEU:HD23	1.94	0.49
2:E:3540:TYR:HB3	2:E:3604:TYR:CD2	2.47	0.49
2:E:3780:LEU:HD11	2:E:3816:MET:HE2	1.94	0.49
2:G:2355:ARG:O	2:G:2359:ARG:HG2	2.11	0.49
2:G:2611:CYS:O	2:G:2650:ARG:NH1	2.43	0.49
2:G:3261:ALA:CB	2:G:3266:MET:HE3	2.42	0.49
2:G:3534:MET:HE3	2:G:3534:MET:O	2.12	0.49
2:G:3546:ASP:OD1	2:G:3547:GLU:N	2.44	0.49
2:G:4904:PRO:HB2	2:G:4910:GLU:HA	1.94	0.49
2:J:15:ARG:HB3	2:J:98:HIS:HB3	1.94	0.49
2:J:858:THR:HG21	2:J:931:THR:HG22	1.92	0.49
2:J:2355:ARG:O	2:J:2359:ARG:HG2	2.11	0.49
3:M:109:THR:HA	3:M:112:ASP:HB2	1.94	0.49
1:H:25:HIS:CE1	1:H:45:PRO:HB3	2.47	0.49
2:B:2355:ARG:O	2:B:2359:ARG:HG2	2.12	0.49
2:B:2619:LEU:O	2:B:2623:LEU:HG	2.12	0.49
2:E:280:LEU:HD21	2:E:316:PHE:CE2	2.47	0.49
2:E:1474:VAL:HG13	2:E:1476:MET:HE3	1.94	0.49
2:E:3335:MET:HB3	2:E:3403:ARG:HD2	1.93	0.49
2:E:3788:GLY:HA3	2:E:3834:ALA:HB3	1.94	0.49
2:G:886:ARG:HB3	2:G:891:TRP:HB3	1.95	0.49
2:J:1578:ALA:HA	2:J:1584:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3442:PHE:HB2	2:J:3513:THR:HG21	1.94	0.49
2:J:3533:ILE:HG22	2:J:3537:LYS:HZ3	1.78	0.49
2:B:15:ARG:HB3	2:B:98:HIS:HB3	1.94	0.49
2:B:2799:GLU:O	2:B:2803:GLU:HG2	2.11	0.49
2:B:4024:VAL:HA	2:B:4027:LEU:HG	1.94	0.49
2:B:4577:LEU:HD21	2:B:4806:ASN:HB3	1.94	0.49
2:E:596:ASN:HD22	2:E:599:VAL:HG23	1.76	0.49
2:E:842:PRO:HD3	2:E:1073:ARG:HB2	1.93	0.49
2:G:758:ARG:HH22	2:G:802:PHE:HB2	1.77	0.49
2:G:2002:PRO:HB2	2:G:3652:MET:HE1	1.94	0.49
2:G:3540:TYR:HB3	2:G:3604:TYR:CD2	2.47	0.49
2:G:3780:LEU:HD11	2:G:3816:MET:HE2	1.94	0.49
2:J:58:VAL:HG12	2:J:305:CYS:HA	1.93	0.49
2:J:842:PRO:HD3	2:J:1073:ARG:HB2	1.93	0.49
2:J:1431:THR:HG21	2:J:1523:ALA:HB2	1.94	0.49
2:J:2124:LEU:HG	2:J:2128:TYR:CE2	2.47	0.49
2:J:3261:ALA:CB	2:J:3266:MET:HE3	2.42	0.49
2:J:4055:VAL:O	2:J:4059:LEU:HG	2.12	0.49
2:J:4090:LYS:HB2	2:J:4121:GLU:HG2	1.95	0.49
2:J:4852:THR:HG21	2:J:4883:TYR:HA	1.93	0.49
2:J:4904:PRO:HB2	2:J:4910:GLU:HA	1.94	0.49
3:C:38:ARG:HH21	3:C:62:SER:HB2	1.77	0.49
3:C:71:ARG:HA	3:C:77:THR:O	2.12	0.49
1:D:40:ARG:HD2	2:E:677:ALA:O	2.12	0.49
2:B:842:PRO:HD3	2:B:1073:ARG:HB2	1.93	0.49
2:B:1474:VAL:HG13	2:B:1476:MET:HE3	1.94	0.49
2:B:2759:ALA:HB2	2:B:2810:LYS:HZ1	1.77	0.49
2:B:3007:ASN:OD1	2:B:3070:ILE:HG13	2.13	0.49
2:B:3384:LYS:HG2	2:B:3386:GLU:H	1.76	0.49
2:B:4055:VAL:O	2:B:4059:LEU:HG	2.12	0.49
2:E:19:GLU:HB3	2:E:205:ILE:HB	1.94	0.49
2:E:947:GLU:HA	2:E:950:LEU:HD12	1.94	0.49
2:E:2380:ILE:O	2:E:2384:ILE:HG13	2.11	0.49
2:G:1431:THR:HG21	2:G:1523:ALA:HB2	1.94	0.49
2:G:1680:ARG:HA	2:G:1797:ARG:HD3	1.94	0.49
2:G:2136:ARG:O	2:G:2139:PRO:HD2	2.11	0.49
2:G:4055:VAL:O	2:G:4059:LEU:HG	2.12	0.49
2:G:4090:LYS:HB2	2:G:4121:GLU:HG2	1.95	0.49
2:J:206:CYS:SG	2:J:271:GLY:N	2.79	0.49
2:J:1735:ILE:HD11	2:J:2156:LEU:HD11	1.93	0.49
2:J:3967:GLU:O	2:J:3970:GLN:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:38:ARG:HH21	3:F:62:SER:HB2	1.77	0.49
3:M:8:GLY:HA3	3:M:20:LEU:HA	1.93	0.49
2:B:1448:VAL:HG12	2:B:1554:VAL:HG23	1.93	0.49
2:B:1680:ARG:HA	2:B:1797:ARG:HD3	1.94	0.49
2:B:2527:LEU:HD11	2:B:2531:ARG:HE	1.77	0.49
2:B:2739:PRO:HG3	2:B:2888:ARG:HG2	1.94	0.49
2:E:252:VAL:HA	2:E:255:HIS:ND1	2.28	0.49
2:E:993:HIS:CE1	2:E:1027:LEU:HD11	2.47	0.49
2:E:3384:LYS:HG2	2:E:3386:GLU:H	1.77	0.49
2:E:4021:LYS:O	2:E:4025:VAL:HG23	2.13	0.49
2:G:19:GLU:HB3	2:G:205:ILE:HB	1.94	0.49
2:G:592:LYS:HG2	2:G:1580:PHE:CE1	2.47	0.49
2:G:1735:ILE:HD11	2:G:2156:LEU:HD11	1.93	0.49
2:G:3525:CYS:HA	2:G:3595:ARG:NH1	2.27	0.49
2:G:4024:VAL:HA	2:G:4027:LEU:HG	1.94	0.49
2:J:2924:GLN:O	2:J:2928:LYS:HG2	2.12	0.49
2:J:3547:GLU:HA	2:J:3550:ARG:HD2	1.94	0.49
3:F:17:SER:HA	3:F:83:ASN:HA	1.93	0.49
1:I:25:HIS:CE1	1:I:45:PRO:HB3	2.47	0.49
2:B:103:TYR:HB2	2:B:159:GLU:HA	1.93	0.49
2:B:2960:LEU:HD23	2:B:2963:LEU:HD12	1.95	0.49
2:B:3261:ALA:HB1	2:B:3265:GLU:HB2	1.94	0.49
2:B:3534:MET:HE3	2:B:3534:MET:O	2.12	0.49
2:B:3547:GLU:HA	2:B:3550:ARG:HD2	1.94	0.49
2:B:4090:LYS:HB2	2:B:4121:GLU:HG2	1.95	0.49
2:E:886:ARG:HB3	2:E:891:TRP:HB3	1.95	0.49
2:E:1680:ARG:HA	2:E:1797:ARG:HD3	1.94	0.49
2:E:1735:ILE:HD11	2:E:2156:LEU:HD11	1.93	0.49
2:E:2739:PRO:HG3	2:E:2888:ARG:HG2	1.94	0.49
2:E:2924:GLN:O	2:E:2928:LYS:HG2	2.12	0.49
2:E:3546:ASP:OD1	2:E:3547:GLU:N	2.44	0.49
2:E:3900:GLN:HB3	2:E:3976:ASN:ND2	2.27	0.49
2:E:4901:ILE:HB	2:E:4913:ARG:NH1	2.27	0.49
2:G:947:GLU:HA	2:G:950:LEU:HD12	1.94	0.49
2:G:1703:LEU:HD12	2:G:1704:PRO:HD2	1.95	0.49
2:G:3261:ALA:HB1	2:G:3265:GLU:HB2	1.94	0.49
2:G:3378:GLN:HA	2:G:3381:LEU:HD23	1.94	0.49
2:J:365:LYS:HE2	2:J:369:LEU:HD11	1.94	0.49
2:J:2136:ARG:O	2:J:2139:PRO:HD2	2.11	0.49
2:J:2458:ARG:HG2	2:J:2510:TYR:CE1	2.48	0.49
2:J:3378:GLN:HA	2:J:3381:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3540:TYR:HB3	2:J:3604:TYR:CD2	2.47	0.49
3:K:71:ARG:HA	3:K:77:THR:O	2.12	0.49
1:A:3:GLU:HB3	1:A:75:THR:HG22	1.93	0.49
2:B:745:SER:HB2	2:B:758:ARG:HB3	1.94	0.49
2:B:3788:GLY:HA2	2:B:3835:LEU:HG	1.95	0.49
2:E:745:SER:HB2	2:E:758:ARG:HB3	1.94	0.49
2:E:3547:GLU:HA	2:E:3550:ARG:HD2	1.94	0.49
2:E:3705:PHE:HE2	2:E:3729:MET:HE1	1.77	0.49
2:G:2134:LEU:O	2:G:2138:LEU:HG	2.13	0.49
2:G:2303:ALA:O	2:G:2307:LEU:HG	2.12	0.49
2:G:2799:GLU:O	2:G:2803:GLU:HG2	2.11	0.49
2:G:4901:ILE:HB	2:G:4913:ARG:NH1	2.27	0.49
2:J:103:TYR:HB2	2:J:159:GLU:HA	1.93	0.49
2:J:886:ARG:HB3	2:J:891:TRP:HB3	1.95	0.49
2:J:2204:HIS:O	2:J:2208:MET:HG2	2.13	0.49
2:J:3753:PHE:O	2:J:3757:GLU:HG2	2.13	0.49
2:J:3780:LEU:HD11	2:J:3816:MET:HE2	1.94	0.49
2:J:3788:GLY:HA3	2:J:3834:ALA:HB3	1.94	0.49
2:J:4021:LYS:O	2:J:4025:VAL:HG23	2.12	0.49
3:K:38:ARG:HH21	3:K:62:SER:HB2	1.76	0.49
1:A:87:HIS:NE2	2:B:1786:LEU:HB2	2.28	0.49
2:B:214:VAL:HA	2:B:341:TYR:HD1	1.76	0.49
2:B:2494:PHE:HE1	2:B:2499:LYS:HG3	1.78	0.49
2:B:3525:CYS:HA	2:B:3595:ARG:NH1	2.27	0.49
2:B:4904:PRO:HG3	2:B:4913:ARG:HB3	1.95	0.49
2:E:758:ARG:HH22	2:E:802:PHE:HB2	1.77	0.49
2:E:1431:THR:HG21	2:E:1523:ALA:HB2	1.94	0.49
2:E:3534:MET:O	2:E:3534:MET:HE3	2.12	0.49
2:E:3906:GLN:HB3	2:E:3909:ASN:HD22	1.77	0.49
2:E:4044:MET:O	2:E:4048:LEU:HG	2.12	0.49
2:G:2888:ARG:HH11	2:G:2891:LYS:NZ	2.11	0.49
2:G:4044:MET:O	2:G:4048:LEU:HG	2.12	0.49
2:G:4577:LEU:HD21	2:G:4806:ASN:HB3	1.95	0.49
2:G:4904:PRO:HG3	2:G:4913:ARG:HB3	1.95	0.49
2:J:2595:LEU:HB2	2:J:2600:ARG:HG3	1.95	0.49
2:B:592:LYS:HG2	2:B:1580:PHE:CE1	2.47	0.49
2:B:947:GLU:HA	2:B:950:LEU:HD12	1.94	0.49
2:B:1653:LEU:HA	2:B:1656:ARG:HB2	1.94	0.49
2:B:2303:ALA:O	2:B:2307:LEU:HG	2.12	0.49
2:B:2522:LEU:HA	2:B:2526:PHE:HB2	1.95	0.49
2:B:4062:PHE:O	2:B:4066:LEU:HG	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4901:ILE:HB	2:B:4913:ARG:NH1	2.27	0.49
2:E:15:ARG:HB3	2:E:98:HIS:HB3	1.94	0.49
2:E:2204:HIS:O	2:E:2208:MET:HG2	2.13	0.49
2:E:4090:LYS:HB2	2:E:4121:GLU:HG2	1.95	0.49
2:G:2364:PHE:CD1	2:G:2429:LEU:HD21	2.47	0.49
2:G:2619:LEU:O	2:G:2623:LEU:HG	2.12	0.49
2:G:2960:LEU:HD23	2:G:2963:LEU:HD12	1.95	0.49
2:G:3007:ASN:OD1	2:G:3070:ILE:HG13	2.13	0.49
2:G:3705:PHE:HE2	2:G:3729:MET:HE1	1.77	0.49
2:G:3788:GLY:HA2	2:G:3835:LEU:HG	1.95	0.49
2:J:1703:LEU:HD12	2:J:1704:PRO:HD2	1.95	0.49
2:J:2619:LEU:O	2:J:2623:LEU:HG	2.13	0.49
2:J:2739:PRO:HG3	2:J:2888:ARG:HG2	1.94	0.49
2:J:4914:VAL:O	2:J:4918:ILE:HG12	2.13	0.49
2:B:1122:TYR:CE2	2:B:1182:ILE:HG12	2.45	0.49
2:B:2002:PRO:HB2	2:B:3652:MET:HE1	1.94	0.49
2:B:2380:ILE:O	2:B:2384:ILE:HG13	2.11	0.49
2:E:2960:LEU:HD23	2:E:2963:LEU:HD12	1.95	0.49
2:E:3007:ASN:OD1	2:E:3070:ILE:HG13	2.13	0.49
2:E:3525:CYS:HA	2:E:3595:ARG:NH1	2.28	0.49
2:E:3601:ALA:O	2:E:3605:HIS:ND1	2.46	0.49
2:E:4024:VAL:HA	2:E:4027:LEU:HG	1.95	0.49
2:G:842:PRO:HD3	2:G:1073:ARG:HB2	1.93	0.49
2:G:2669:GLU:HA	2:G:2672:LEU:HD13	1.94	0.49
2:G:4680:LYS:O	2:G:4685:GLY:N	2.43	0.49
2:J:248:GLU:HB2	2:J:373:LYS:CD	2.37	0.49
2:J:252:VAL:HA	2:J:255:HIS:ND1	2.28	0.49
3:M:38:ARG:HE	3:M:62:SER:HB2	1.78	0.49
2:B:661:LYS:HB3	2:B:808:TYR:HA	1.94	0.48
2:B:886:ARG:HB3	2:B:891:TRP:HB3	1.95	0.48
2:B:3442:PHE:HB2	2:B:3513:THR:HG21	1.94	0.48
2:B:4021:LYS:O	2:B:4025:VAL:HG23	2.13	0.48
2:E:1122:TYR:CE2	2:E:1182:ILE:HG12	2.45	0.48
2:G:2177:LEU:HD13	2:G:2180:GLN:NE2	2.28	0.48
2:G:2522:LEU:HA	2:G:2526:PHE:HB2	1.95	0.48
2:G:3753:PHE:O	2:G:3757:GLU:HG2	2.13	0.48
2:J:2134:LEU:O	2:J:2138:LEU:HG	2.13	0.48
2:J:2303:ALA:O	2:J:2307:LEU:HG	2.12	0.48
2:J:2881:ASN:HA	2:J:2884:ASN:HD21	1.78	0.48
2:J:3900:GLN:HB3	2:J:3976:ASN:ND2	2.27	0.48
1:H:40:ARG:HD2	2:G:677:ALA:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:40:ARG:HD2	2:J:677:ALA:O	2.14	0.48
2:B:1578:ALA:HA	2:B:1584:ARG:HH12	1.77	0.48
2:B:3516:LYS:HG3	2:B:3517:MET:N	2.29	0.48
2:E:1758:ARG:HH22	2:E:2036:GLN:HG3	1.79	0.48
2:E:2881:ASN:HA	2:E:2884:ASN:HD21	1.78	0.48
2:E:2888:ARG:HH11	2:E:2891:LYS:NZ	2.11	0.48
2:E:3261:ALA:CB	2:E:3266:MET:HE3	2.42	0.48
2:G:280:LEU:HD21	2:G:316:PHE:CE2	2.47	0.48
2:G:661:LYS:HB3	2:G:808:TYR:HA	1.95	0.48
2:G:3072:ALA:HB1	2:G:3143:LEU:HD13	1.95	0.48
2:G:3442:PHE:HB2	2:G:3513:THR:HG21	1.94	0.48
2:G:3601:ALA:O	2:G:3605:HIS:ND1	2.46	0.48
2:G:4914:VAL:O	2:G:4918:ILE:HG12	2.13	0.48
2:J:246:TYR:HB2	2:J:373:LYS:CE	2.40	0.48
2:J:268:SER:HB3	2:J:269:TRP:HE3	1.78	0.48
2:J:3007:ASN:OD1	2:J:3070:ILE:HG13	2.13	0.48
2:J:3790:THR:OG1	2:J:3838:THR:OG1	2.21	0.48
2:J:4062:PHE:O	2:J:4066:LEU:HG	2.13	0.48
3:M:51:ILE:C	3:M:71:ARG:HH21	2.19	0.48
2:B:252:VAL:HA	2:B:255:HIS:ND1	2.28	0.48
2:B:2134:LEU:O	2:B:2138:LEU:HG	2.13	0.48
2:B:3780:LEU:HD11	2:B:3816:MET:HB2	1.95	0.48
2:E:214:VAL:HA	2:E:341:TYR:HD1	1.76	0.48
2:E:1256:GLU:OE1	2:E:1271:ARG:NH2	2.46	0.48
2:E:1653:LEU:HA	2:E:1656:ARG:HB2	1.94	0.48
2:E:2183:GLY:HA2	2:E:2186:MET:HE2	1.95	0.48
2:E:2303:ALA:O	2:E:2307:LEU:HG	2.12	0.48
2:E:3753:PHE:O	2:E:3757:GLU:HG2	2.13	0.48
2:E:4062:PHE:O	2:E:4066:LEU:HG	2.13	0.48
2:G:3651:ASN:O	2:G:3655:GLU:HG2	2.14	0.48
2:J:110:ARG:HD2	2:J:115:ARG:HH21	1.79	0.48
2:J:214:VAL:HA	2:J:341:TYR:HD1	1.76	0.48
2:J:2002:PRO:HB2	2:J:3652:MET:HE1	1.94	0.48
2:J:3525:CYS:HA	2:J:3595:ARG:NH1	2.27	0.48
2:J:3651:ASN:O	2:J:3655:GLU:HG2	2.14	0.48
3:C:68:THR:OG1	3:C:81:GLN:HB3	2.14	0.48
3:F:38:ARG:HE	3:F:62:SER:HB2	1.78	0.48
3:M:68:THR:OG1	3:M:81:GLN:HB3	2.14	0.48
3:M:99:ARG:HD3	3:M:114:TYR:CD2	2.48	0.48
2:B:268:SER:HB3	2:B:269:TRP:HE3	1.78	0.48
2:B:2669:GLU:HA	2:B:2672:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2747:ILE:HD12	2:B:2748:PRO:HD2	1.95	0.48
2:B:3753:PHE:O	2:B:3757:GLU:HG2	2.13	0.48
2:E:661:LYS:HB3	2:E:808:TYR:HA	1.95	0.48
2:E:1835:GLU:HG2	2:E:1836:PHE:N	2.29	0.48
2:E:2747:ILE:HD12	2:E:2748:PRO:HD2	1.95	0.48
2:E:3780:LEU:HD11	2:E:3816:MET:HB2	1.96	0.48
2:G:1177:THR:OG1	2:G:1180:ARG:NH2	2.45	0.48
2:G:1474:VAL:HG13	2:G:1476:MET:HE3	1.94	0.48
2:G:2204:HIS:O	2:G:2208:MET:HG2	2.13	0.48
2:G:2458:ARG:HG2	2:G:2510:TYR:CE1	2.48	0.48
2:G:2624:ARG:HH22	2:G:2912:THR:HG22	1.78	0.48
2:G:2739:PRO:HG3	2:G:2888:ARG:HG2	1.94	0.48
2:J:947:GLU:HA	2:J:950:LEU:HD12	1.94	0.48
2:J:2489:LYS:HB3	2:J:2492:ALA:HB3	1.95	0.48
2:J:2522:LEU:HA	2:J:2526:PHE:HB2	1.95	0.48
2:J:3023:LYS:HZ3	2:J:3025:LEU:HD13	1.79	0.48
2:J:4901:ILE:HB	2:J:4913:ARG:NH1	2.27	0.48
3:K:4:LEU:HD22	3:K:95:CYS:O	2.14	0.48
1:D:87:HIS:NE2	2:E:1786:LEU:HB2	2.27	0.48
2:B:64:ILE:C	2:B:111:HIS:HE2	2.22	0.48
2:B:597:HIS:HB2	2:B:1665:HIS:CE1	2.49	0.48
2:B:2323:TRP:CZ2	2:B:2422:ILE:HD12	2.49	0.48
2:B:2888:ARG:HH11	2:B:2891:LYS:NZ	2.11	0.48
2:B:3072:ALA:HB1	2:B:3143:LEU:HD13	1.95	0.48
2:B:4680:LYS:O	2:B:4685:GLY:N	2.43	0.48
2:E:1703:LEU:HD12	2:E:1704:PRO:HD2	1.95	0.48
2:E:2527:LEU:HD11	2:E:2531:ARG:HE	1.77	0.48
2:G:45:ARG:HH22	2:G:443:LEU:HD21	1.79	0.48
2:G:2489:LYS:HB3	2:G:2492:ALA:HB3	1.95	0.48
2:G:2759:ALA:HB2	2:G:2810:LYS:HZ1	1.79	0.48
2:G:4655:PHE:HB2	2:G:4796:MET:HE1	1.96	0.48
2:J:2960:LEU:HD23	2:J:2963:LEU:HD12	1.95	0.48
2:J:3788:GLY:HA2	2:J:3835:LEU:HG	1.95	0.48
3:F:68:THR:OG1	3:F:81:GLN:HB3	2.14	0.48
3:K:51:ILE:C	3:K:71:ARG:HH21	2.20	0.48
3:K:99:ARG:HD3	3:K:114:TYR:CD2	2.49	0.48
1:I:87:HIS:NE2	2:J:1786:LEU:HB2	2.28	0.48
2:B:19:GLU:HB3	2:B:205:ILE:HB	1.94	0.48
2:B:217:GLY:N	2:B:262:LEU:O	2.46	0.48
2:B:1927:LEU:O	2:B:2104:ARG:NH2	2.42	0.48
2:B:2458:ARG:HG2	2:B:2510:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3261:ALA:CB	2:B:3266:MET:HE3	2.42	0.48
2:E:2494:PHE:HE1	2:E:2499:LYS:HG3	1.78	0.48
2:E:2522:LEU:HA	2:E:2526:PHE:HB2	1.95	0.48
2:E:2595:LEU:HB2	2:E:2600:ARG:HG3	1.95	0.48
2:G:2376:LEU:O	2:G:2380:ILE:HG12	2.14	0.48
2:G:2494:PHE:HE1	2:G:2499:LYS:HG3	1.78	0.48
2:G:3173:TYR:CD2	2:G:3243:ILE:HG12	2.49	0.48
2:J:246:TYR:CB	2:J:373:LYS:HE3	2.40	0.48
2:J:1474:VAL:HG13	2:J:1476:MET:HE3	1.94	0.48
2:J:1835:GLU:HG2	2:J:1836:PHE:N	2.29	0.48
2:J:2177:LEU:HD13	2:J:2180:GLN:NE2	2.28	0.48
2:J:2183:GLY:HA2	2:J:2186:MET:HE2	1.95	0.48
2:J:2527:LEU:HD11	2:J:2531:ARG:HE	1.77	0.48
2:J:2759:ALA:HB2	2:J:2810:LYS:HZ1	1.78	0.48
2:J:4211:LYS:O	2:J:4214:LYS:HG3	2.14	0.48
2:B:1703:LEU:HD12	2:B:1704:PRO:HD2	1.95	0.48
2:B:3731:LYS:O	2:B:3735:LEU:HG	2.14	0.48
2:B:4914:VAL:O	2:B:4918:ILE:HG12	2.13	0.48
2:E:2458:ARG:HG2	2:E:2510:TYR:CE1	2.48	0.48
2:E:2694:GLU:CD	2:E:2697:ARG:HH21	2.22	0.48
2:E:3516:LYS:HG3	2:E:3517:MET:N	2.28	0.48
2:E:3651:ASN:O	2:E:3655:GLU:HG2	2.14	0.48
2:E:4914:VAL:O	2:E:4918:ILE:HG12	2.13	0.48
2:E:4958:CYS:SG	2:E:4959:PHE:N	2.87	0.48
2:G:3516:LYS:HG3	2:G:3517:MET:N	2.29	0.48
2:G:3992:PHE:HA	2:G:3995:VAL:HG22	1.96	0.48
2:G:4021:LYS:O	2:G:4025:VAL:HG23	2.13	0.48
2:J:3731:LYS:O	2:J:3735:LEU:HG	2.14	0.48
2:J:3780:LEU:HD11	2:J:3816:MET:HB2	1.95	0.48
3:K:68:THR:OG1	3:K:81:GLN:HB3	2.14	0.48
1:A:40:ARG:HD2	2:B:677:ALA:O	2.13	0.48
2:B:246:TYR:CB	2:B:373:LYS:HE3	2.39	0.48
2:B:3601:ALA:O	2:B:3605:HIS:ND1	2.46	0.48
2:B:3651:ASN:O	2:B:3655:GLU:HG2	2.14	0.48
2:B:3705:PHE:HE2	2:B:3729:MET:HE1	1.77	0.48
2:B:3752:SER:O	2:B:3756:LYS:HG3	2.14	0.48
2:B:4992:LEU:O	2:B:4996:ILE:HG13	2.14	0.48
2:E:2177:LEU:HD13	2:E:2180:GLN:NE2	2.28	0.48
2:E:3103:ILE:O	2:E:3107:VAL:HG13	2.14	0.48
2:E:4055:VAL:O	2:E:4059:LEU:HG	2.12	0.48
2:G:217:GLY:N	2:G:262:LEU:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:252:VAL:HA	2:G:255:HIS:ND1	2.28	0.48
2:G:1274:HIS:N	2:G:1559:GLN:O	2.47	0.48
2:G:2881:ASN:HA	2:G:2884:ASN:HD21	1.78	0.48
2:G:3445:TRP:CE2	2:G:3509:LEU:HG	2.49	0.48
2:G:3752:SER:O	2:G:3756:LYS:HG3	2.14	0.48
2:G:4062:PHE:O	2:G:4066:LEU:HG	2.13	0.48
2:J:1758:ARG:HH22	2:J:2036:GLN:HG3	1.78	0.48
2:J:2968:ASP:HA	2:J:2971:GLN:HG2	1.96	0.48
2:J:3072:ALA:HB1	2:J:3143:LEU:HD13	1.95	0.48
2:J:3601:ALA:O	2:J:3605:HIS:ND1	2.46	0.48
2:J:3850:GLN:NE2	2:J:3872:GLU:OE1	2.47	0.48
2:J:4577:LEU:HD21	2:J:4806:ASN:HB3	1.95	0.48
3:C:4:LEU:HD22	3:C:95:CYS:O	2.14	0.48
3:C:99:ARG:HD3	3:C:114:TYR:CD2	2.48	0.48
1:I:55:VAL:HG23	2:J:1783:VAL:HB	1.96	0.48
2:B:1431:THR:HG21	2:B:1523:ALA:HB2	1.94	0.48
2:B:2364:PHE:CD1	2:B:2429:LEU:HD21	2.47	0.48
2:B:3312:LEU:HB2	2:B:3345:ILE:HD11	1.96	0.48
2:B:3992:PHE:HA	2:B:3995:VAL:HG22	1.96	0.48
2:E:64:ILE:C	2:E:111:HIS:HE2	2.22	0.48
2:E:823:LEU:HB2	2:E:1617:THR:HB	1.96	0.48
2:E:2377:LEU:HD22	2:E:2468:GLY:HA3	1.96	0.48
2:E:2489:LYS:HB3	2:E:2492:ALA:HB3	1.95	0.48
2:E:2669:GLU:HA	2:E:2672:LEU:HD13	1.94	0.48
2:G:2109:ASP:HA	2:G:3694:LYS:HD2	1.96	0.48
2:G:2313:LEU:HG	2:G:2318:TYR:HB2	1.96	0.48
2:G:4000:MET:SD	2:G:4001:MET:N	2.87	0.48
2:G:4992:LEU:O	2:G:4996:ILE:HG13	2.14	0.48
2:J:45:ARG:HH22	2:J:443:LEU:HD21	1.79	0.48
2:J:280:LEU:HD21	2:J:316:PHE:CE2	2.47	0.48
2:J:661:LYS:HB3	2:J:808:TYR:HA	1.95	0.48
2:J:2109:ASP:HA	2:J:3694:LYS:HD2	1.96	0.48
2:J:2376:LEU:O	2:J:2380:ILE:HG12	2.14	0.48
2:J:2888:ARG:HH11	2:J:2891:LYS:NZ	2.11	0.48
2:J:3992:PHE:HA	2:J:3995:VAL:HG22	1.96	0.48
3:K:38:ARG:HE	3:K:62:SER:HB2	1.78	0.48
2:B:1641:ILE:HB	2:B:1644:GLU:HB2	1.96	0.48
2:B:2189:LYS:NZ	2:B:2193:GLN:OE1	2.33	0.48
2:B:4958:CYS:SG	2:B:4959:PHE:N	2.87	0.48
2:B:5014:TYR:HD1	2:B:5019:TRP:HZ3	1.62	0.48
2:E:3445:TRP:CE2	2:E:3509:LEU:HG	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:5014:TYR:HD1	2:E:5019:TRP:HZ3	1.62	0.48
2:G:268:SER:HB3	2:G:269:TRP:HE3	1.78	0.48
2:G:535:ALA:O	2:G:539:LEU:HG	2.14	0.48
2:G:2323:TRP:CZ2	2:G:2422:ILE:HD12	2.49	0.48
2:G:2527:LEU:HD11	2:G:2531:ARG:HE	1.77	0.48
2:G:2595:LEU:HB2	2:G:2600:ARG:HG3	1.95	0.48
2:G:4211:LYS:O	2:G:4214:LYS:HG3	2.14	0.48
2:J:823:LEU:HB2	2:J:1617:THR:HB	1.96	0.48
2:J:939:VAL:HA	2:J:1051:TYR:HB3	1.96	0.48
2:J:2313:LEU:HG	2:J:2318:TYR:HB2	1.96	0.48
2:J:2323:TRP:CZ2	2:J:2422:ILE:HD12	2.49	0.48
2:J:4000:MET:SD	2:J:4001:MET:N	2.87	0.48
2:J:4680:LYS:O	2:J:4685:GLY:N	2.43	0.48
2:J:5014:TYR:HD1	2:J:5019:TRP:HZ3	1.62	0.48
3:F:4:LEU:HD22	3:F:95:CYS:O	2.14	0.48
3:F:99:ARG:HD3	3:F:114:TYR:CD2	2.49	0.48
2:B:1081:TYR:CZ	2:B:1234:VAL:HG13	2.49	0.47
2:B:2377:LEU:HD22	2:B:2468:GLY:HA3	1.96	0.47
2:B:3173:TYR:CD2	2:B:3243:ILE:HG12	2.49	0.47
2:B:3445:TRP:CE2	2:B:3509:LEU:HG	2.49	0.47
2:E:3278:CYS:SG	2:E:3341:PHE:HB3	2.54	0.47
2:E:3731:LYS:O	2:E:3735:LEU:HG	2.14	0.47
2:G:15:ARG:HB3	2:G:98:HIS:HB3	1.94	0.47
2:G:758:ARG:HH11	2:G:761:GLY:HA2	1.79	0.47
2:G:2679:PHE:HB2	2:G:2706:ILE:HG21	1.96	0.47
2:G:2694:GLU:CD	2:G:2697:ARG:HH21	2.22	0.47
2:G:3780:LEU:HD11	2:G:3816:MET:HB2	1.96	0.47
2:G:5014:TYR:HD1	2:G:5019:TRP:HZ3	1.62	0.47
2:J:1274:HIS:N	2:J:1559:GLN:O	2.47	0.47
2:J:2624:ARG:HH22	2:J:2912:THR:HG22	1.78	0.47
2:J:2694:GLU:CD	2:J:2697:ARG:HH21	2.22	0.47
2:J:2747:ILE:HD12	2:J:2748:PRO:HD2	1.95	0.47
2:J:3103:ILE:O	2:J:3107:VAL:HG13	2.14	0.47
3:F:51:ILE:C	3:F:71:ARG:HH21	2.19	0.47
2:B:360:ALA:O	2:B:361:ALA:C	2.54	0.47
2:B:1274:HIS:N	2:B:1559:GLN:O	2.47	0.47
2:B:3850:GLN:NE2	2:B:3872:GLU:OE1	2.47	0.47
2:E:110:ARG:HD2	2:E:115:ARG:HH21	1.79	0.47
2:E:246:TYR:HB2	2:E:373:LYS:CE	2.39	0.47
2:E:2538:THR:O	2:E:2542:SER:N	2.47	0.47
2:E:3072:ALA:HB1	2:E:3143:LEU:HD13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3725:TYR:HA	2:E:3728:ILE:HG12	1.96	0.47
2:E:3788:GLY:HA2	2:E:3835:LEU:HG	1.95	0.47
2:E:4000:MET:SD	2:E:4001:MET:N	2.87	0.47
2:E:4577:LEU:HD21	2:E:4806:ASN:HB3	1.95	0.47
2:E:4992:LEU:O	2:E:4996:ILE:HG13	2.14	0.47
2:G:664:PHE:CZ	2:G:779:PRO:HB3	2.50	0.47
2:G:745:SER:HB2	2:G:758:ARG:HB3	1.94	0.47
2:G:1081:TYR:CZ	2:G:1234:VAL:HG13	2.49	0.47
2:G:2747:ILE:HD12	2:G:2748:PRO:HD2	1.95	0.47
2:G:3850:GLN:NE2	2:G:3872:GLU:OE1	2.47	0.47
2:G:4222:VAL:HG11	2:G:4950:VAL:HA	1.96	0.47
2:J:535:ALA:O	2:J:539:LEU:HG	2.14	0.47
2:J:1641:ILE:HB	2:J:1644:GLU:HB2	1.96	0.47
2:J:2203:MET:SD	2:J:2204:HIS:N	2.87	0.47
2:J:3173:TYR:CD2	2:J:3243:ILE:HG12	2.49	0.47
3:M:4:LEU:HD22	3:M:95:CYS:O	2.14	0.47
2:B:1078:GLU:HB3	2:B:1081:TYR:CD2	2.50	0.47
2:B:2204:HIS:O	2:B:2208:MET:HG2	2.13	0.47
2:B:2376:LEU:O	2:B:2380:ILE:HG12	2.14	0.47
2:E:1578:ALA:HA	2:E:1584:ARG:HH12	1.77	0.47
2:E:2474:LEU:HD21	2:E:2494:PHE:CD1	2.50	0.47
2:E:2624:ARG:HH22	2:E:2912:THR:HG22	1.78	0.47
2:E:3173:TYR:CD2	2:E:3243:ILE:HG12	2.49	0.47
2:G:64:ILE:C	2:G:111:HIS:HE2	2.22	0.47
2:G:3312:LEU:HB2	2:G:3345:ILE:HD11	1.96	0.47
2:J:901:LYS:HD3	2:J:903:LEU:HD11	1.97	0.47
2:J:2494:PHE:HE1	2:J:2499:LYS:HG3	1.78	0.47
2:J:2668:SER:O	2:J:2672:LEU:HD12	2.15	0.47
2:J:2869:ARG:NH2	2:J:2870[B]:GLU:HG3	2.30	0.47
2:J:3278:CYS:SG	2:J:3341:PHE:HB3	2.54	0.47
2:J:3445:TRP:CE2	2:J:3509:LEU:HG	2.49	0.47
3:C:38:ARG:HE	3:C:62:SER:HB2	1.78	0.47
2:B:758:ARG:HH11	2:B:761:GLY:HA2	1.79	0.47
2:B:2177:LEU:HD13	2:B:2180:GLN:NE2	2.28	0.47
2:B:2321:ILE:HD11	2:B:2418:LEU:HB2	1.97	0.47
2:B:2474:LEU:HD21	2:B:2494:PHE:CD1	2.50	0.47
2:B:2869:ARG:NH2	2:B:2870[B]:GLU:HG3	2.30	0.47
2:E:597:HIS:HB2	2:E:1665:HIS:CE1	2.49	0.47
2:E:1274:HIS:N	2:E:1559:GLN:O	2.47	0.47
2:E:2134:LEU:O	2:E:2138:LEU:HG	2.13	0.47
2:E:2376:LEU:O	2:E:2380:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2668:SER:O	2:E:2672:LEU:HD12	2.15	0.47
2:E:3512:ALA:HA	2:E:3516:LYS:HE3	1.97	0.47
2:G:1641:ILE:HB	2:G:1644:GLU:HB2	1.96	0.47
2:G:2474:LEU:HD21	2:G:2494:PHE:CD1	2.50	0.47
2:J:217:GLY:N	2:J:262:LEU:O	2.46	0.47
2:J:597:HIS:HB2	2:J:1665:HIS:CE1	2.49	0.47
2:J:1256:GLU:OE1	2:J:1271:ARG:NH2	2.46	0.47
2:J:3705:PHE:HE2	2:J:3729:MET:HE1	1.77	0.47
2:B:308:HIS:O	2:B:312:THR:OG1	2.25	0.47
2:B:1808:ARG:HD3	2:B:1854:PHE:HA	1.96	0.47
2:B:2959:PHE:O	2:B:2963:LEU:HG	2.15	0.47
2:B:3103:ILE:O	2:B:3107:VAL:HG13	2.14	0.47
2:E:460:GLN:HB2	2:E:463:GLU:HG2	1.96	0.47
2:E:669:ASP:O	2:E:740:PRO:HB3	2.15	0.47
2:E:939:VAL:HA	2:E:1051:TYR:HB3	1.96	0.47
2:E:2203:MET:SD	2:E:2204:HIS:N	2.87	0.47
2:E:2968:ASP:HA	2:E:2971:GLN:HG2	1.96	0.47
2:E:3514:LEU:HA	2:E:3518:LEU:HB2	1.97	0.47
2:G:110:ARG:HD2	2:G:115:ARG:HH21	1.79	0.47
2:G:2183:GLY:HA2	2:G:2186:MET:HE2	1.94	0.47
2:G:2512:ILE:HG21	2:G:2518:LEU:HB2	1.96	0.47
2:G:2538:THR:O	2:G:2542:SER:N	2.47	0.47
2:J:2321:ILE:HD11	2:J:2418:LEU:HB2	1.97	0.47
2:J:2474:LEU:HD21	2:J:2494:PHE:CD1	2.50	0.47
2:J:3178:THR:O	2:J:3187:ARG:NH2	2.48	0.47
2:J:4655:PHE:HB2	2:J:4796:MET:HE1	1.96	0.47
2:J:4992:LEU:O	2:J:4996:ILE:HG13	2.14	0.47
1:A:55:VAL:HG23	2:B:1783:VAL:HB	1.95	0.47
2:B:1835:GLU:HG2	2:B:1836:PHE:N	2.29	0.47
2:B:2183:GLY:HA2	2:B:2186:MET:HE2	1.95	0.47
2:B:2624:ARG:HH22	2:B:2912:THR:HG22	1.78	0.47
2:B:4000:MET:SD	2:B:4001:MET:N	2.87	0.47
2:B:4222:VAL:HG11	2:B:4950:VAL:HA	1.97	0.47
2:E:501:ALA:O	2:E:505:GLU:HG2	2.15	0.47
2:E:1078:GLU:HB3	2:E:1081:TYR:CD2	2.50	0.47
2:E:2323:TRP:CZ2	2:E:2422:ILE:HD12	2.49	0.47
2:E:3289:PRO:HG3	2:E:3303:PRO:HG2	1.97	0.47
2:E:4039:MET:HE2	2:E:4039:MET:N	2.30	0.47
2:E:4211:LYS:O	2:E:4214:LYS:HG3	2.14	0.47
2:G:102:LEU:HD13	2:G:160:GLY:HA2	1.97	0.47
2:G:460:GLN:HB2	2:G:463:GLU:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:823:LEU:HB2	2:G:1617:THR:HB	1.96	0.47
2:G:901:LYS:HD3	2:G:903:LEU:HD11	1.97	0.47
2:G:939:VAL:HA	2:G:1051:TYR:HB3	1.97	0.47
2:G:1758:ARG:NH2	2:G:2040:ALA:HB2	2.30	0.47
2:G:1758:ARG:HH22	2:G:2036:GLN:HG3	1.78	0.47
2:G:1835:GLU:HG2	2:G:1836:PHE:N	2.29	0.47
2:G:2203:MET:SD	2:G:2204:HIS:N	2.87	0.47
2:G:2740:VAL:HG21	2:G:2819:TRP:HE1	1.80	0.47
2:G:2959:PHE:O	2:G:2963:LEU:HG	2.15	0.47
2:G:2960:LEU:O	2:G:2964:LEU:HG	2.15	0.47
2:G:3278:CYS:SG	2:G:3341:PHE:HB3	2.54	0.47
2:J:669:ASP:O	2:J:740:PRO:HB3	2.15	0.47
2:J:2679:PHE:HB2	2:J:2706:ILE:HG21	1.96	0.47
2:J:2960:LEU:O	2:J:2964:LEU:HG	2.15	0.47
2:J:4904:PRO:HG3	2:J:4913:ARG:HB3	1.95	0.47
2:B:45:ARG:HH22	2:B:443:LEU:HD21	1.79	0.47
2:B:460:GLN:HB2	2:B:463:GLU:HG2	1.96	0.47
2:B:664:PHE:CZ	2:B:779:PRO:HB3	2.50	0.47
2:B:1158:ASN:HB3	2:B:1182:ILE:N	2.28	0.47
2:B:2203:MET:SD	2:B:2204:HIS:N	2.87	0.47
2:B:2595:LEU:HB2	2:B:2600:ARG:HG3	1.95	0.47
2:B:2694:GLU:CD	2:B:2697:ARG:HH21	2.22	0.47
2:B:2960:LEU:O	2:B:2964:LEU:HG	2.15	0.47
2:B:3155:ASP:O	2:B:3158:LEU:HD22	2.15	0.47
2:B:3172:ILE:HG23	2:B:3194:LEU:HD12	1.97	0.47
2:B:3512:ALA:HA	2:B:3516:LYS:HE3	1.97	0.47
2:B:4184:MET:HA	2:B:4190:ILE:HD13	1.97	0.47
2:B:4640:GLU:HB3	2:B:4641:PRO:HD3	1.97	0.47
2:B:4960:ILE:HG13	2:B:4983:HIS:HB3	1.97	0.47
2:E:45:ARG:HH22	2:E:443:LEU:HD21	1.79	0.47
2:E:144:GLU:HG3	2:E:175:SER:HB2	1.97	0.47
2:E:268:SER:HB3	2:E:269:TRP:HE3	1.78	0.47
2:E:492:ASP:OD1	2:E:546:TRP:NE1	2.40	0.47
2:E:595:ARG:HB3	2:E:1662:PHE:CE1	2.50	0.47
2:E:1081:TYR:CZ	2:E:1234:VAL:HG13	2.49	0.47
2:E:1289:LEU:HB2	2:E:1552:VAL:HG23	1.97	0.47
2:E:1808:ARG:HD3	2:E:1854:PHE:HA	1.96	0.47
2:E:1927:LEU:O	2:E:2104:ARG:NH2	2.42	0.47
2:E:2189:LYS:NZ	2:E:2193:GLN:OE1	2.33	0.47
2:E:2313:LEU:HG	2:E:2318:TYR:HB2	1.96	0.47
2:E:2821:TRP:HD1	2:E:2939:ARG:HA	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2879:ALA:HA	2:E:2882:TYR:CD2	2.50	0.47
2:E:2960:LEU:O	2:E:2964:LEU:HG	2.15	0.47
2:E:4655:PHE:HB2	2:E:4796:MET:HE1	1.96	0.47
2:E:4904:PRO:HG3	2:E:4913:ARG:HB3	1.95	0.47
2:G:492:ASP:OD1	2:G:546:TRP:NE1	2.40	0.47
2:G:597:HIS:HB2	2:G:1665:HIS:CE1	2.49	0.47
2:G:1951:LEU:HD11	2:G:2134:LEU:HA	1.97	0.47
2:G:2321:ILE:HD11	2:G:2418:LEU:HB2	1.97	0.47
2:G:2668:SER:O	2:G:2672:LEU:HD12	2.15	0.47
2:G:2869:ARG:NH2	2:G:2870[B]:GLU:HG3	2.30	0.47
2:G:3103:ILE:O	2:G:3107:VAL:HG13	2.14	0.47
2:G:3178:THR:O	2:G:3187:ARG:NH2	2.48	0.47
2:G:3262:ARG:HG2	2:G:3329:ILE:HD11	1.97	0.47
2:G:4039:MET:HE2	2:G:4039:MET:N	2.30	0.47
2:G:4184:MET:HA	2:G:4190:ILE:HD13	1.97	0.47
2:G:4192:ARG:HB2	2:G:5028:PHE:CZ	2.49	0.47
2:J:64:ILE:C	2:J:111:HIS:HE2	2.22	0.47
2:J:102:LEU:HD13	2:J:160:GLY:HA2	1.97	0.47
2:J:341:TYR:CE2	2:J:392:ARG:HB2	2.50	0.47
2:J:595:ARG:HB3	2:J:1662:PHE:CE1	2.50	0.47
2:J:1927:LEU:O	2:J:2104:ARG:NH2	2.42	0.47
2:J:2959:PHE:O	2:J:2963:LEU:HG	2.15	0.47
2:J:3514:LEU:HA	2:J:3518:LEU:HB2	1.97	0.47
2:J:3752:SER:O	2:J:3756:LYS:HG3	2.14	0.47
2:J:4039:MET:HE2	2:J:4039:MET:N	2.30	0.47
3:C:6:GLU:OE1	3:C:22:CYS:HB2	2.15	0.47
2:B:492:ASP:OD1	2:B:546:TRP:NE1	2.40	0.47
2:B:1758:ARG:HH22	2:B:2036:GLN:HG3	1.78	0.47
2:B:2676:ARG:HH12	2:B:2955:PHE:HB2	1.80	0.47
2:B:2740:VAL:HG21	2:B:2819:TRP:HE1	1.80	0.47
2:B:2881:ASN:HA	2:B:2884:ASN:HD21	1.78	0.47
2:B:2968:ASP:HA	2:B:2971:GLN:HG2	1.96	0.47
2:B:3278:CYS:SG	2:B:3341:PHE:HB3	2.54	0.47
2:B:3725:TYR:HA	2:B:3728:ILE:HG12	1.96	0.47
2:B:4192:ARG:HB2	2:B:5028:PHE:CZ	2.50	0.47
2:E:341:TYR:CE2	2:E:392:ARG:HB2	2.50	0.47
2:E:2512:ILE:HG21	2:E:2518:LEU:HB2	1.96	0.47
2:E:2679:PHE:HB2	2:E:2706:ILE:HG21	1.96	0.47
2:E:3850:GLN:NE2	2:E:3872:GLU:OE1	2.47	0.47
2:G:341:TYR:CE2	2:G:392:ARG:HB2	2.50	0.47
2:G:4640:GLU:HB3	2:G:4641:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4960:ILE:HG13	2:G:4983:HIS:HB3	1.97	0.47
2:J:13:PHE:HA	2:J:164:ARG:HA	1.97	0.47
2:J:1261:ASP:HA	2:J:1268:PRO:HA	1.97	0.47
2:J:2512:ILE:HG21	2:J:2518:LEU:HB2	1.96	0.47
2:J:2888:ARG:HH11	2:J:2891:LYS:HZ1	1.62	0.47
2:J:4640:GLU:HB3	2:J:4641:PRO:HD3	1.97	0.47
2:B:102:LEU:HD13	2:B:160:GLY:HA2	1.97	0.47
2:B:181:HIS:HA	2:B:198:THR:HB	1.97	0.47
2:B:535:ALA:O	2:B:539:LEU:HG	2.14	0.47
2:B:669:ASP:O	2:B:740:PRO:HB3	2.15	0.47
2:B:901:LYS:HD3	2:B:903:LEU:HD11	1.97	0.47
2:B:1619:ARG:NH2	2:B:1621:GLY:O	2.48	0.47
2:B:1951:LEU:HD11	2:B:2134:LEU:HA	1.97	0.47
2:B:3699:HIS:CD2	2:B:3773:ARG:HG2	2.50	0.47
2:B:4039:MET:HE2	2:B:4039:MET:N	2.30	0.47
2:E:246:TYR:HD1	2:E:375:LYS:HA	1.80	0.47
2:E:369:LEU:HB2	2:E:371:VAL:HG23	1.97	0.47
2:E:758:ARG:HH11	2:E:761:GLY:HA2	1.79	0.47
2:E:2211:MET:HA	2:E:2214:VAL:HG12	1.97	0.47
2:E:3102:ASP:HA	2:E:3105:LYS:HE2	1.97	0.47
2:E:3172:ILE:HG23	2:E:3194:LEU:HD12	1.97	0.47
2:E:4182:GLU:HG2	2:E:5028:PHE:HE2	1.80	0.47
2:E:4184:MET:HA	2:E:4190:ILE:HD13	1.97	0.47
2:G:1808:ARG:HD3	2:G:1854:PHE:HA	1.96	0.47
2:G:2968:ASP:HA	2:G:2971:GLN:HG2	1.96	0.47
2:G:3155:ASP:O	2:G:3158:LEU:HD22	2.15	0.47
2:G:3731:LYS:O	2:G:3735:LEU:HG	2.14	0.47
2:G:4582:VAL:HG11	2:J:4860:ARG:NH1	2.30	0.47
2:J:19:GLU:HB3	2:J:205:ILE:HB	1.94	0.47
2:J:790:ARG:HD3	2:J:1627:ALA:HB2	1.97	0.47
2:J:1289:LEU:HB2	2:J:1552:VAL:HG23	1.97	0.47
2:J:4234:PHE:CE1	2:J:4985:LEU:HD23	2.50	0.47
3:F:6:GLU:OE1	3:F:22:CYS:HB2	2.15	0.47
2:B:178:ARG:HH11	2:B:194:SER:HA	1.80	0.47
2:B:2888:ARG:O	2:B:2892:GLN:HG2	2.15	0.47
2:B:3790:THR:OG1	2:B:3838:THR:OG1	2.21	0.47
2:B:4211:LYS:O	2:B:4214:LYS:HG3	2.14	0.47
2:E:664:PHE:CZ	2:E:779:PRO:HB3	2.50	0.47
2:E:1641:ILE:HB	2:E:1644:GLU:HB2	1.96	0.47
2:E:2321:ILE:HD11	2:E:2418:LEU:HB2	1.97	0.47
2:E:4640:GLU:HB3	2:E:4641:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:4673:ARG:NH2	2:E:4702:ASP:OD1	2.47	0.47
2:E:4860:ARG:NH1	2:J:4582:VAL:HG11	2.30	0.47
2:G:1237:TRP:CH2	2:G:1652:GLU:HG3	2.50	0.47
2:G:1287:LEU:HG	2:G:1289:LEU:HG	1.97	0.47
2:G:2676:ARG:HH12	2:G:2955:PHE:HB2	1.80	0.47
2:G:2888:ARG:O	2:G:2892:GLN:HG2	2.15	0.47
2:G:3102:ASP:HA	2:G:3105:LYS:HE2	1.97	0.47
2:G:3514:LEU:HA	2:G:3518:LEU:HB2	1.97	0.47
2:G:3699:HIS:CD2	2:G:3773:ARG:HG2	2.50	0.47
2:J:215:THR:HG22	2:J:273:HIS:HA	1.97	0.47
2:J:664:PHE:CZ	2:J:779:PRO:HB3	2.50	0.47
2:J:1808:ARG:HD3	2:J:1854:PHE:HA	1.96	0.47
2:J:3246:LEU:HA	2:J:3249:LEU:HD12	1.97	0.47
2:J:3516:LYS:HG3	2:J:3517:MET:N	2.28	0.47
2:J:3989:VAL:HA	2:J:3992:PHE:HD2	1.80	0.47
3:C:51:ILE:C	3:C:71:ARG:HH21	2.19	0.47
2:B:823:LEU:HB2	2:B:1617:THR:HB	1.96	0.46
2:B:1474:VAL:CG1	2:B:1476:MET:HE3	2.45	0.46
2:B:1758:ARG:NH2	2:B:2040:ALA:HB2	2.30	0.46
2:B:1849:LEU:HG	2:B:1945:TYR:CZ	2.51	0.46
2:B:2313:LEU:HG	2:B:2318:TYR:HB2	1.96	0.46
2:B:2489:LYS:HB3	2:B:2492:ALA:HB3	1.96	0.46
2:B:2821:TRP:HD1	2:B:2939:ARG:HA	1.80	0.46
2:B:3172:ILE:HG13	2:B:3175:LEU:HD12	1.97	0.46
2:E:3155:ASP:O	2:E:3158:LEU:HD22	2.15	0.46
2:E:3752:SER:O	2:E:3756:LYS:HG3	2.14	0.46
2:G:13:PHE:HA	2:G:164:ARG:HA	1.97	0.46
2:G:1289:LEU:HB2	2:G:1552:VAL:HG23	1.97	0.46
2:G:1474:VAL:CG1	2:G:1476:MET:HE3	2.45	0.46
2:G:2291:GLN:OE1	2:G:2291:GLN:N	2.40	0.46
2:J:116:MET:HB2	2:J:139:GLU:HA	1.97	0.46
2:J:1078:GLU:HB3	2:J:1081:TYR:CD2	2.50	0.46
2:J:2479:LEU:HA	2:J:2485:LEU:HA	1.97	0.46
2:J:3312:LEU:HB2	2:J:3345:ILE:HD11	1.96	0.46
2:J:4182:GLU:HG2	2:J:5028:PHE:HE2	1.80	0.46
2:B:144:GLU:HG3	2:B:175:SER:HB2	1.97	0.46
2:B:299:LEU:HD11	2:B:376:ALA:HB3	1.97	0.46
2:B:642:THR:O	2:B:782:SER:HA	2.15	0.46
2:B:1000:ARG:HH12	3:C:114:TYR:HA	1.80	0.46
2:B:1100:MET:HE1	2:B:1192:CYS:HB2	1.97	0.46
2:B:1287:LEU:HG	2:B:1289:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2109:ASP:HA	2:B:3694:LYS:HD2	1.96	0.46
2:B:2512:ILE:HG21	2:B:2518:LEU:HB2	1.96	0.46
2:B:2668:SER:O	2:B:2672:LEU:HD12	2.15	0.46
2:B:3102:ASP:HA	2:B:3105:LYS:HE2	1.97	0.46
2:E:535:ALA:O	2:E:539:LEU:HG	2.14	0.46
2:E:940:GLY:N	2:E:1051:TYR:HA	2.28	0.46
2:E:2869:ARG:NH2	2:E:2870[B]:GLU:HG3	2.29	0.46
2:E:3992:PHE:HA	2:E:3995:VAL:HG22	1.96	0.46
2:G:1849:LEU:HG	2:G:1945:TYR:CZ	2.51	0.46
2:G:2377:LEU:HD22	2:G:2468:GLY:HA3	1.96	0.46
2:G:4234:PHE:CE1	2:G:4985:LEU:HD23	2.50	0.46
2:J:181:HIS:HD1	2:J:198:THR:HG1	1.62	0.46
2:J:181:HIS:HA	2:J:198:THR:HB	1.97	0.46
2:J:501:ALA:O	2:J:505:GLU:HG2	2.15	0.46
2:J:758:ARG:HH11	2:J:761:GLY:HA2	1.80	0.46
2:J:1158:ASN:HB3	2:J:1182:ILE:N	2.28	0.46
2:J:2740:VAL:HG21	2:J:2819:TRP:HE1	1.80	0.46
2:J:3155:ASP:O	2:J:3158:LEU:HD22	2.15	0.46
2:J:3289:PRO:HG3	2:J:3303:PRO:HG2	1.97	0.46
2:B:110:ARG:HD2	2:B:115:ARG:HH21	1.79	0.46
2:B:341:TYR:CE2	2:B:392:ARG:HB2	2.50	0.46
2:B:2003:GLN:H	2:B:2003:GLN:CD	2.24	0.46
2:B:2479:LEU:HA	2:B:2485:LEU:HA	1.97	0.46
2:B:3289:PRO:HG3	2:B:3303:PRO:HG2	1.97	0.46
2:B:4649:LEU:O	2:B:4653:VAL:HG23	2.16	0.46
2:E:116:MET:HB2	2:E:139:GLU:HA	1.97	0.46
2:E:2109:ASP:HA	2:E:3694:LYS:HD2	1.96	0.46
2:E:2777:TYR:HB2	2:E:2791:LEU:O	2.16	0.46
2:E:3246:LEU:HA	2:E:3249:LEU:HD12	1.97	0.46
2:E:3312:LEU:HB2	2:E:3345:ILE:HD11	1.96	0.46
2:E:4192:ARG:HB2	2:E:5028:PHE:CZ	2.50	0.46
2:E:4222:VAL:HG11	2:E:4950:VAL:HA	1.97	0.46
2:E:4546:VAL:HA	2:E:4549:VAL:HG22	1.97	0.46
2:E:4680:LYS:O	2:E:4685:GLY:N	2.43	0.46
2:G:790:ARG:HD3	2:G:1627:ALA:HB2	1.97	0.46
2:G:3989:VAL:HA	2:G:3992:PHE:HD2	1.80	0.46
2:G:4551:PHE:HZ	2:G:4656:LEU:HD22	1.81	0.46
2:J:178:ARG:HH11	2:J:194:SER:HA	1.80	0.46
2:J:3512:ALA:HA	2:J:3516:LYS:HE3	1.97	0.46
1:I:31:GLN:NE2	2:J:1299:GLN:HB3	2.31	0.46
2:B:595:ARG:HB3	2:B:1662:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:939:VAL:HA	2:B:1051:TYR:HB3	1.97	0.46
2:B:1289:LEU:HB2	2:B:1552:VAL:HG23	1.96	0.46
2:B:2538:THR:O	2:B:2542:SER:N	2.47	0.46
2:B:2679:PHE:HB2	2:B:2706:ILE:HG21	1.96	0.46
2:B:4546:VAL:HA	2:B:4549:VAL:HG22	1.97	0.46
2:E:102:LEU:HD13	2:E:160:GLY:HA2	1.97	0.46
2:E:215:THR:HG22	2:E:273:HIS:HA	1.97	0.46
2:E:217:GLY:N	2:E:262:LEU:O	2.47	0.46
2:E:1758:ARG:NH2	2:E:2040:ALA:HB2	2.30	0.46
2:E:1830:VAL:HB	2:E:1837:GLN:HG3	1.98	0.46
2:E:3639:THR:N	2:E:3640:PRO:HD2	2.31	0.46
2:G:3172:ILE:HG23	2:G:3194:LEU:HD12	1.97	0.46
2:G:3639:THR:N	2:G:3640:PRO:HD2	2.31	0.46
2:G:4649:LEU:O	2:G:4653:VAL:HG23	2.15	0.46
2:J:1830:VAL:HB	2:J:1837:GLN:HG3	1.98	0.46
2:J:3725:TYR:HA	2:J:3728:ILE:HG12	1.96	0.46
2:J:4958:CYS:SG	2:J:4959:PHE:N	2.87	0.46
2:B:661:LYS:HA	2:B:749:ASP:HA	1.97	0.46
2:B:790:ARG:HD3	2:B:1627:ALA:HB2	1.97	0.46
2:B:1092:PHE:CZ	2:B:1200:GLY:HA3	2.51	0.46
2:B:1122:TYR:CE1	2:B:1133:HIS:CD2	3.04	0.46
2:B:1237:TRP:CH2	2:B:1652:GLU:HG3	2.50	0.46
2:B:2181:SER:O	2:B:2185:ILE:HG12	2.16	0.46
2:B:2777:TYR:HB2	2:B:2791:LEU:O	2.16	0.46
2:B:3178:THR:O	2:B:3187:ARG:NH2	2.48	0.46
2:E:901:LYS:HD3	2:E:903:LEU:HD11	1.96	0.46
2:E:1474:VAL:CG1	2:E:1476:MET:HE3	2.45	0.46
2:E:3699:HIS:CD2	2:E:3773:ARG:HG2	2.50	0.46
2:G:501:ALA:O	2:G:505:GLU:HG2	2.15	0.46
2:G:835:ARG:HB3	2:G:838:HIS:HE1	1.81	0.46
2:G:3852:LYS:O	2:G:3856:LEU:HG	2.15	0.46
2:G:3998:HIS:O	2:G:4001:MET:HG2	2.16	0.46
2:J:1116:GLY:HA3	2:J:1132:TRP:HB3	1.98	0.46
2:J:2211:MET:HA	2:J:2214:VAL:HG12	1.98	0.46
2:J:2777:TYR:HB2	2:J:2791:LEU:O	2.16	0.46
2:J:2788:HIS:HB3	2:J:2791:LEU:HD13	1.98	0.46
2:J:3962:PHE:O	2:J:3966:THR:HG23	2.15	0.46
2:J:4192:ARG:HB2	2:J:5028:PHE:CZ	2.50	0.46
2:J:4551:PHE:HZ	2:J:4656:LEU:HD22	1.81	0.46
2:J:4649:LEU:O	2:J:4653:VAL:HG23	2.16	0.46
3:M:6:GLU:OE1	3:M:22:CYS:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:292:ALA:HB2	2:B:312:THR:HG22	1.98	0.46
2:B:2423:MET:HE1	2:B:2494:PHE:CD2	2.51	0.46
2:B:2788:HIS:HB3	2:B:2791:LEU:HD13	1.98	0.46
2:B:2879:ALA:HA	2:B:2882:TYR:CD2	2.50	0.46
2:B:3262:ARG:HG2	2:B:3329:ILE:HD11	1.97	0.46
2:B:3852:LYS:O	2:B:3856:LEU:HG	2.15	0.46
2:E:308:HIS:O	2:E:312:THR:OG1	2.25	0.46
2:E:642:THR:O	2:E:782:SER:HA	2.15	0.46
2:E:1619:ARG:NH2	2:E:1621:GLY:O	2.48	0.46
2:E:1849:LEU:HG	2:E:1945:TYR:CZ	2.51	0.46
2:E:2788:HIS:HB3	2:E:2791:LEU:HD13	1.98	0.46
2:E:3533:ILE:HG22	2:E:3537:LYS:HZ3	1.79	0.46
2:E:4207:MET:HE1	2:E:4209:GLN:HB2	1.98	0.46
2:G:181:HIS:HA	2:G:198:THR:HB	1.97	0.46
2:G:583:ILE:HD13	2:G:621:ILE:HG13	1.98	0.46
2:G:669:ASP:O	2:G:740:PRO:HB3	2.15	0.46
2:G:1078:GLU:HB3	2:G:1081:TYR:CD2	2.50	0.46
2:G:1158:ASN:HB3	2:G:1182:ILE:N	2.28	0.46
2:G:1261:ASP:HA	2:G:1268:PRO:HA	1.97	0.46
2:G:1758:ARG:HH12	2:G:2036:GLN:HG3	1.81	0.46
2:G:2888:ARG:HH11	2:G:2891:LYS:HZ1	1.63	0.46
2:G:4207:MET:HE1	2:G:4209:GLN:HB2	1.98	0.46
2:J:1081:TYR:CZ	2:J:1234:VAL:HG13	2.49	0.46
2:J:1237:TRP:CH2	2:J:1652:GLU:HG3	2.50	0.46
2:J:1287:LEU:HG	2:J:1289:LEU:HG	1.98	0.46
2:J:1474:VAL:CG1	2:J:1476:MET:HE3	2.45	0.46
2:J:1758:ARG:HH12	2:J:2036:GLN:HG3	1.81	0.46
2:J:2469:ILE:HG13	2:J:2502:MET:HE3	1.98	0.46
2:J:2538:THR:O	2:J:2542:SER:N	2.47	0.46
2:J:4184:MET:HA	2:J:4190:ILE:HD13	1.97	0.46
2:B:1478:ASP:OD1	2:B:1482:ASN:N	2.48	0.46
2:B:1622:GLU:OE2	2:B:1623:ARG:NH1	2.47	0.46
2:B:1830:VAL:HB	2:B:1837:GLN:HG3	1.98	0.46
2:B:2538:THR:HG23	2:B:2541:PHE:H	1.81	0.46
2:B:3041:SER:HB3	2:B:3088:VAL:HG22	1.98	0.46
2:B:3989:VAL:HA	2:B:3992:PHE:HD2	1.80	0.46
2:B:4182:GLU:HG2	2:B:5028:PHE:HE2	1.80	0.46
2:B:4897:ILE:O	2:B:4901:ILE:HG13	2.15	0.46
2:E:178:ARG:HH11	2:E:194:SER:HA	1.81	0.46
2:E:636:ASN:HB3	2:E:702:TRP:CZ2	2.50	0.46
2:E:1758:ARG:HH12	2:E:2036:GLN:HG3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1951:LEU:HD11	2:E:2134:LEU:HA	1.97	0.46
2:E:2676:ARG:HH12	2:E:2955:PHE:HB2	1.80	0.46
2:E:3178:THR:O	2:E:3187:ARG:NH2	2.48	0.46
2:G:595:ARG:HB3	2:G:1662:PHE:CE1	2.50	0.46
2:G:1619:ARG:NH2	2:G:1621:GLY:O	2.48	0.46
2:G:2181:SER:O	2:G:2185:ILE:HG12	2.16	0.46
2:G:2788:HIS:HB3	2:G:2791:LEU:HD13	1.98	0.46
2:G:3375:GLU:HA	2:G:3378:GLN:OE1	2.16	0.46
2:G:3725:TYR:HA	2:G:3728:ILE:HG12	1.96	0.46
2:G:4061:PHE:CE2	2:G:4065:PHE:HE2	2.33	0.46
2:G:4897:ILE:O	2:G:4901:ILE:HG13	2.15	0.46
2:J:292:ALA:HB2	2:J:312:THR:HG22	1.98	0.46
2:J:1008:SER:HB2	2:J:1017:ARG:NE	2.22	0.46
2:J:1092:PHE:CZ	2:J:1200:GLY:HA3	2.51	0.46
2:J:1100:MET:HE1	2:J:1192:CYS:HB2	1.97	0.46
2:J:1619:ARG:NH2	2:J:1621:GLY:O	2.48	0.46
2:J:1951:LEU:HD11	2:J:2134:LEU:HA	1.97	0.46
2:J:2377:LEU:HD22	2:J:2468:GLY:HA3	1.96	0.46
2:J:2676:ARG:NH1	2:J:2955:PHE:HB2	2.31	0.46
2:J:2821:TRP:HD1	2:J:2939:ARG:HA	1.79	0.46
2:J:2879:ALA:HA	2:J:2882:TYR:CD2	2.50	0.46
2:J:3041:SER:HB3	2:J:3088:VAL:HG22	1.98	0.46
2:J:3716:LEU:HD21	2:J:3793:MET:HE2	1.98	0.46
2:B:246:TYR:HD1	2:B:375:LYS:HA	1.80	0.46
2:B:3514:LEU:HA	2:B:3518:LEU:HB2	1.97	0.46
2:B:4655:PHE:HB2	2:B:4796:MET:HE1	1.96	0.46
2:E:181:HIS:HA	2:E:198:THR:HB	1.97	0.46
2:E:347:PHE:CE1	2:E:387:ALA:HB2	2.51	0.46
2:E:2559:LEU:O	2:E:2563:THR:HG23	2.16	0.46
2:E:2676:ARG:NH1	2:E:2955:PHE:HB2	2.31	0.46
2:E:2888:ARG:O	2:E:2892:GLN:HG2	2.15	0.46
2:E:2959:PHE:O	2:E:2963:LEU:HG	2.15	0.46
2:E:3175:LEU:HD13	2:E:3190:LEU:HD13	1.98	0.46
2:E:3937:TYR:HA	2:E:3940:LYS:HD3	1.98	0.46
2:E:3989:VAL:O	2:E:3993:LEU:HG	2.16	0.46
2:E:4061:PHE:CE2	2:E:4065:PHE:HE2	2.33	0.46
2:E:4234:PHE:CE1	2:E:4985:LEU:HD23	2.50	0.46
2:E:4551:PHE:HZ	2:E:4656:LEU:HD22	1.81	0.46
2:G:1122:TYR:CE1	2:G:1133:HIS:CD2	3.04	0.46
2:G:1600:LEU:O	2:G:1601:MET:HE2	2.16	0.46
2:G:1830:VAL:HB	2:G:1837:GLN:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2538:THR:HG23	2:G:2541:PHE:H	1.81	0.46
2:G:2879:ALA:HA	2:G:2882:TYR:CD2	2.50	0.46
2:G:3512:ALA:HA	2:G:3516:LYS:HE3	1.97	0.46
2:J:969:PRO:HG2	2:J:971:ASP:HB2	1.98	0.46
2:J:2559:LEU:O	2:J:2563:THR:HG23	2.16	0.46
2:J:3102:ASP:HA	2:J:3105:LYS:HE2	1.97	0.46
2:J:3219:TYR:O	2:J:3227:ARG:NH2	2.49	0.46
2:J:3808:GLY:HA3	2:J:3893:GLU:HB3	1.97	0.46
2:J:3833:GLN:O	2:J:3837:GLN:HG2	2.16	0.46
2:B:13:PHE:HA	2:B:164:ARG:HA	1.97	0.46
2:B:501:ALA:O	2:B:505:GLU:HG2	2.15	0.46
2:B:1261:ASP:HA	2:B:1268:PRO:HA	1.97	0.46
2:B:3639:THR:N	2:B:3640:PRO:HD2	2.31	0.46
2:B:3937:TYR:HA	2:B:3940:LYS:HD3	1.98	0.46
2:B:3989:VAL:O	2:B:3993:LEU:HG	2.16	0.46
2:B:4234:PHE:CE1	2:B:4985:LEU:HD23	2.50	0.46
2:E:1116:GLY:HA3	2:E:1132:TRP:HB3	1.98	0.46
2:E:1156:THR:OG1	2:E:1157:GLU:OE1	2.34	0.46
2:E:3034:LYS:HA	2:E:3037:GLU:HG3	1.98	0.46
2:E:3041:SER:HB3	2:E:3088:VAL:HG22	1.98	0.46
2:E:3262:ARG:HG2	2:E:3329:ILE:HD11	1.97	0.46
2:E:3833:GLN:O	2:E:3837:GLN:HG2	2.16	0.46
2:E:3989:VAL:HA	2:E:3992:PHE:HD2	1.80	0.46
2:G:116:MET:HB2	2:G:139:GLU:HA	1.97	0.46
2:G:178:ARG:HH11	2:G:194:SER:HA	1.80	0.46
2:G:642:THR:O	2:G:782:SER:HA	2.15	0.46
2:G:2423:MET:HE1	2:G:2494:PHE:CD2	2.51	0.46
2:G:2431:ASP:HB2	2:G:2501:SER:HB2	1.98	0.46
2:G:2809:ILE:H	2:G:2809:ILE:HD12	1.81	0.46
2:G:3034:LYS:HA	2:G:3037:GLU:HG3	1.98	0.46
2:G:3041:SER:HB3	2:G:3088:VAL:HG22	1.98	0.46
2:G:3219:TYR:O	2:G:3227:ARG:NH2	2.49	0.46
2:G:4958:CYS:SG	2:G:4959:PHE:N	2.87	0.46
2:J:722:TRP:CZ2	2:J:727:ALA:HB2	2.51	0.46
2:J:1433:TYR:CZ	2:J:1578:ALA:HB2	2.51	0.46
2:J:2195:PRO:HA	2:J:2198:MET:HE2	1.98	0.46
2:J:3262:ARG:HG2	2:J:3329:ILE:HD11	1.97	0.46
2:J:3852:LYS:O	2:J:3856:LEU:HG	2.15	0.46
2:J:4222:VAL:HG11	2:J:4950:VAL:HA	1.96	0.46
2:B:116:MET:HB2	2:B:139:GLU:HA	1.97	0.46
2:B:347:PHE:CE1	2:B:387:ALA:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1600:LEU:O	2:B:1601:MET:HE2	2.16	0.46
2:B:2809:ILE:H	2:B:2809:ILE:HD12	1.81	0.46
2:B:3175:LEU:HD13	2:B:3190:LEU:HD13	1.98	0.46
2:B:5003:HIS:HA	2:B:5007:GLU:OE2	2.16	0.46
2:E:13:PHE:HA	2:E:164:ARG:HA	1.97	0.46
2:E:1237:TRP:CH2	2:E:1652:GLU:HG3	2.50	0.46
2:E:1297:PHE:CD2	2:E:1522:LEU:HA	2.51	0.46
2:E:1435:TYR:CE1	2:E:1518:CYS:HB2	2.52	0.46
2:E:1600:LEU:O	2:E:1601:MET:HE2	2.16	0.46
2:E:2469:ILE:HG13	2:E:2502:MET:HE3	1.98	0.46
2:E:2740:VAL:HG21	2:E:2819:TRP:HE1	1.80	0.46
2:E:4720:VAL:O	2:E:4724:VAL:HG23	2.16	0.46
2:E:4897:ILE:O	2:E:4901:ILE:HG13	2.15	0.46
2:G:551:LEU:HB3	2:G:589:LEU:HD21	1.98	0.46
2:G:661:LYS:HA	2:G:749:ASP:HA	1.97	0.46
2:G:1433:TYR:CZ	2:G:1578:ALA:HB2	2.51	0.46
2:G:3102:ASP:O	2:G:3106:MET:HG2	2.16	0.46
2:G:3226:GLU:HA	2:G:3229:ILE:HG22	1.99	0.46
2:G:4182:GLU:HG2	2:G:5028:PHE:HE2	1.80	0.46
2:G:4738:ALA:HA	2:G:4743:MET:SD	2.56	0.46
2:J:144:GLU:HG3	2:J:175:SER:HB2	1.97	0.46
2:J:347:PHE:CE1	2:J:387:ALA:HB2	2.51	0.46
2:J:363:ASP:HB3	2:J:366:ALA:HB3	1.98	0.46
2:J:460:GLN:HB2	2:J:463:GLU:HG2	1.96	0.46
2:J:583:ILE:HD13	2:J:621:ILE:HG13	1.98	0.46
2:J:1006:SER:OG	2:J:1017:ARG:NH2	2.49	0.46
2:J:3172:ILE:HG13	2:J:3175:LEU:HD12	1.97	0.46
2:J:3713:LYS:HZ1	2:J:3716:LEU:HD12	1.81	0.46
2:J:4738:ALA:HA	2:J:4743:MET:SD	2.56	0.46
2:J:4897:ILE:O	2:J:4901:ILE:HG13	2.15	0.46
2:B:215:THR:HG22	2:B:273:HIS:HA	1.97	0.45
2:B:541:SER:HA	2:B:574:VAL:HG12	1.98	0.45
2:B:551:LEU:HB3	2:B:589:LEU:HD21	1.98	0.45
2:B:583:ILE:HD13	2:B:621:ILE:HG13	1.98	0.45
2:B:1116:GLY:HA3	2:B:1132:TRP:HB3	1.98	0.45
2:B:2121:PHE:CE1	2:B:3701:LEU:HD22	2.51	0.45
2:B:2211:MET:HA	2:B:2214:VAL:HG12	1.97	0.45
2:B:2559:LEU:O	2:B:2563:THR:HG23	2.16	0.45
2:B:3219:TYR:O	2:B:3227:ARG:NH2	2.49	0.45
2:B:3545:THR:HG23	2:B:3548:GLU:H	1.81	0.45
2:B:3716:LEU:HD21	2:B:3793:MET:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3808:GLY:HA3	2:B:3893:GLU:HB3	1.97	0.45
2:B:4061:PHE:CE2	2:B:4065:PHE:HE2	2.33	0.45
2:B:4551:PHE:HZ	2:B:4656:LEU:HD22	1.81	0.45
2:B:4582:VAL:HG11	2:G:4860:ARG:NH1	2.31	0.45
2:E:583:ILE:HD13	2:E:621:ILE:HG13	1.98	0.45
2:E:1006:SER:OG	2:E:1017:ARG:NH2	2.49	0.45
2:E:1100:MET:HE1	2:E:1192:CYS:HB2	1.97	0.45
2:E:1287:LEU:HG	2:E:1289:LEU:HG	1.98	0.45
2:E:2195:PRO:HA	2:E:2198:MET:HE2	1.98	0.45
2:E:2197:LEU:O	2:E:2201:LEU:HG	2.16	0.45
2:E:2423:MET:HE1	2:E:2494:PHE:CD2	2.51	0.45
2:G:215:THR:HG22	2:G:273:HIS:HA	1.97	0.45
2:G:347:PHE:CE1	2:G:387:ALA:HB2	2.51	0.45
2:G:497:TYR:HB2	2:G:503:PHE:CE1	2.52	0.45
2:G:722:TRP:CZ2	2:G:727:ALA:HB2	2.51	0.45
2:G:1000:ARG:HH12	3:M:114:TYR:HA	1.81	0.45
2:G:1100:MET:HE1	2:G:1192:CYS:HB2	1.97	0.45
2:G:2138:LEU:HB2	2:G:2139:PRO:HD3	1.99	0.45
2:G:3716:LEU:HD21	2:G:3793:MET:HE2	1.98	0.45
2:J:246:TYR:HD1	2:J:375:LYS:HA	1.81	0.45
2:J:1156:THR:OG1	2:J:1157:GLU:OE1	2.34	0.45
2:J:2423:MET:HE1	2:J:2494:PHE:CD2	2.51	0.45
2:J:2676:ARG:HH12	2:J:2955:PHE:HB2	1.80	0.45
2:J:3410:PRO:HA	2:J:3413:ILE:HD12	1.99	0.45
2:J:3639:THR:N	2:J:3640:PRO:HD2	2.31	0.45
2:J:3699:HIS:CD2	2:J:3773:ARG:HG2	2.50	0.45
2:J:4061:PHE:CE2	2:J:4065:PHE:HE2	2.33	0.45
2:B:497:TYR:HB2	2:B:503:PHE:CE1	2.52	0.45
2:E:181:HIS:HD1	2:E:198:THR:HG1	1.64	0.45
2:E:1261:ASP:HA	2:E:1268:PRO:HA	1.97	0.45
2:E:2035:HIS:O	2:E:2039:LEU:HG	2.17	0.45
2:E:3226:GLU:HA	2:E:3229:ILE:HG22	1.98	0.45
2:E:3802:ILE:HD11	2:E:3887:PHE:HB2	1.98	0.45
2:E:4960:ILE:HG13	2:E:4983:HIS:HB3	1.97	0.45
2:G:1297:PHE:CD2	2:G:1522:LEU:HA	2.51	0.45
2:G:2035:HIS:O	2:G:2039:LEU:HG	2.17	0.45
2:G:2680:TRP:HZ3	2:G:2962:GLN:HG3	1.82	0.45
2:G:3289:PRO:HG3	2:G:3303:PRO:HG2	1.97	0.45
2:G:3713:LYS:HZ1	2:G:3717:ASP:H	1.64	0.45
2:G:3790:THR:OG1	2:G:3838:THR:OG1	2.21	0.45
2:G:3802:ILE:HD11	2:G:3887:PHE:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:835:ARG:HB3	2:J:838:HIS:HE1	1.81	0.45
2:J:1758:ARG:NH2	2:J:2040:ALA:HB2	2.30	0.45
2:J:1804:LEU:HB3	2:J:1853:ILE:HG21	1.99	0.45
2:J:2121:PHE:CE1	2:J:3701:LEU:HD22	2.51	0.45
2:J:2197:LEU:O	2:J:2201:LEU:HG	2.16	0.45
2:J:2381:GLU:HB3	2:J:2385:ARG:HH21	1.81	0.45
2:J:4960:ILE:HG13	2:J:4983:HIS:HB3	1.97	0.45
3:C:98:ASP:N	3:C:98:ASP:OD1	2.49	0.45
3:F:71:ARG:CG	3:F:78:VAL:HG22	2.46	0.45
2:B:20:VAL:HA	2:B:204:PRO:HA	1.98	0.45
2:B:369:LEU:HB2	2:B:371:VAL:HG23	1.99	0.45
2:B:636:ASN:HB3	2:B:702:TRP:CZ2	2.50	0.45
2:B:993:HIS:CE1	2:B:1027:LEU:HD21	2.52	0.45
2:B:2138:LEU:HB2	2:B:2139:PRO:HD3	1.98	0.45
2:B:2431:ASP:HB2	2:B:2501:SER:HB2	1.98	0.45
2:B:2676:ARG:NH1	2:B:2955:PHE:HB2	2.31	0.45
2:B:4738:ALA:HA	2:B:4743:MET:SD	2.56	0.45
2:E:34:LYS:H	2:E:53:SER:HB2	1.82	0.45
2:E:969:PRO:HG2	2:E:971:ASP:HB2	1.98	0.45
2:E:2479:LEU:HA	2:E:2485:LEU:HA	1.97	0.45
2:E:3852:LYS:O	2:E:3856:LEU:HG	2.15	0.45
2:E:4649:LEU:O	2:E:4653:VAL:HG23	2.16	0.45
2:G:363:ASP:HB3	2:G:366:ALA:HB3	1.97	0.45
2:G:993:HIS:CE1	2:G:1027:LEU:HD21	2.52	0.45
2:G:1116:GLY:HA3	2:G:1132:TRP:HB3	1.98	0.45
2:G:2381:GLU:HB3	2:G:2385:ARG:HH21	1.81	0.45
2:G:2479:LEU:HA	2:G:2485:LEU:HA	1.97	0.45
2:G:3410:PRO:HA	2:G:3413:ILE:HD12	1.99	0.45
2:G:3808:GLY:HA3	2:G:3893:GLU:HB3	1.97	0.45
2:G:3833:GLN:O	2:G:3837:GLN:HG2	2.16	0.45
2:J:1101:ARG:HG3	2:J:1125:ASN:HB2	1.99	0.45
2:J:3102:ASP:O	2:J:3106:MET:HG2	2.16	0.45
3:F:66:ARG:HH11	3:F:83:ASN:HB3	1.81	0.45
1:A:31:GLN:NE2	2:B:1299:GLN:HB3	2.31	0.45
2:B:280:LEU:O	2:B:313:SER:HA	2.17	0.45
2:B:940:GLY:N	2:B:1051:TYR:HA	2.28	0.45
2:B:1006:SER:OG	2:B:1017:ARG:NH2	2.49	0.45
2:B:1433:TYR:CZ	2:B:1578:ALA:HB2	2.51	0.45
2:B:2101:MET:SD	2:B:2104:ARG:NH2	2.89	0.45
2:B:2197:LEU:O	2:B:2201:LEU:HG	2.16	0.45
2:B:3246:LEU:HA	2:B:3249:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3375:GLU:HA	2:B:3378:GLN:OE1	2.16	0.45
2:B:3563:VAL:HG12	2:B:3569:LEU:HG	1.99	0.45
2:E:268:SER:HB3	2:E:269:TRP:CE3	2.52	0.45
2:E:299:LEU:HD11	2:E:376:ALA:HB3	1.97	0.45
2:E:1122:TYR:CE1	2:E:1133:HIS:CD2	3.04	0.45
2:E:1478:ASP:OD1	2:E:1482:ASN:N	2.48	0.45
2:E:1622:GLU:OE2	2:E:1623:ARG:NH1	2.47	0.45
2:E:2126:ARG:NH2	2:E:2133:GLU:OE2	2.48	0.45
2:E:2354:VAL:HA	2:E:2357:LEU:HG	1.99	0.45
2:E:2364:PHE:CD1	2:E:2429:LEU:HD21	2.47	0.45
2:E:3563:VAL:HG12	2:E:3569:LEU:HG	1.99	0.45
2:E:5003:HIS:HA	2:E:5007:GLU:OE2	2.16	0.45
2:G:636:ASN:HB3	2:G:702:TRP:CZ2	2.50	0.45
2:G:1104:TRP:CE2	2:G:1153:ILE:HB	2.51	0.45
2:G:3246:LEU:HA	2:G:3249:LEU:HD12	1.97	0.45
2:G:3989:VAL:O	2:G:3993:LEU:HG	2.16	0.45
2:J:20:VAL:HA	2:J:204:PRO:HA	1.98	0.45
2:J:661:LYS:HA	2:J:749:ASP:HA	1.97	0.45
2:J:1297:PHE:CD2	2:J:1522:LEU:HA	2.51	0.45
2:J:1978:ALA:HA	2:J:1981:MET:HE3	1.98	0.45
2:J:2035:HIS:O	2:J:2039:LEU:HG	2.17	0.45
2:J:2431:ASP:HB2	2:J:2501:SER:HB2	1.98	0.45
2:J:2680:TRP:HZ3	2:J:2962:GLN:HG3	1.82	0.45
2:J:2888:ARG:O	2:J:2892:GLN:HG2	2.15	0.45
2:J:3172:ILE:HG23	2:J:3194:LEU:HD12	1.97	0.45
2:J:3989:VAL:O	2:J:3993:LEU:HG	2.16	0.45
3:M:107:TRP:HE3	3:M:111:ASN:HD21	1.64	0.45
2:B:550:LYS:HA	2:B:553:ARG:HG2	1.99	0.45
2:B:1086:GLY:H	2:B:1156:THR:HG23	1.82	0.45
2:B:1758:ARG:HH12	2:B:2036:GLN:HG3	1.81	0.45
2:B:2680:TRP:HZ3	2:B:2962:GLN:HG3	1.82	0.45
2:B:3051:ARG:HH22	2:B:3102:ASP:HB2	1.82	0.45
2:B:3068:LEU:HD13	2:B:3139:VAL:HG21	1.99	0.45
2:B:3538:THR:O	2:B:3542:LEU:HG	2.17	0.45
2:E:292:ALA:HB2	2:E:312:THR:HG22	1.97	0.45
2:E:497:TYR:HB2	2:E:503:PHE:CE1	2.52	0.45
2:E:551:LEU:HB3	2:E:589:LEU:HD21	1.98	0.45
2:E:661:LYS:HA	2:E:749:ASP:HA	1.97	0.45
2:E:790:ARG:HD3	2:E:1627:ALA:HB2	1.97	0.45
2:E:993:HIS:CE1	2:E:1027:LEU:HD21	2.52	0.45
2:E:1101:ARG:HG3	2:E:1125:ASN:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1433:TYR:CZ	2:E:1578:ALA:HB2	2.51	0.45
2:E:2181:SER:O	2:E:2185:ILE:HG12	2.16	0.45
2:E:2604:GLU:HG2	2:E:2639:MET:HG2	1.99	0.45
2:E:3051:ARG:HH22	2:E:3102:ASP:HB2	1.82	0.45
2:E:3192:GLU:O	2:E:3196:ARG:HG2	2.17	0.45
2:E:3808:GLY:HA3	2:E:3893:GLU:HB3	1.97	0.45
2:G:541:SER:HA	2:G:574:VAL:HG12	1.98	0.45
2:G:795:GLY:HA3	2:G:812:HIS:CE1	2.51	0.45
2:G:1256:GLU:OE1	2:G:1271:ARG:NH2	2.46	0.45
2:G:2448:GLY:O	2:G:2452:ARG:HG2	2.17	0.45
2:G:2676:ARG:NH1	2:G:2955:PHE:HB2	2.31	0.45
2:G:2777:TYR:HB2	2:G:2791:LEU:O	2.16	0.45
2:G:2821:TRP:HD1	2:G:2939:ARG:HA	1.80	0.45
2:G:3538:THR:O	2:G:3542:LEU:HG	2.17	0.45
2:G:3545:THR:HG23	2:G:3548:GLU:H	1.81	0.45
2:G:3766:GLN:HG2	2:G:3769:ARG:NH2	2.32	0.45
2:G:4546:VAL:HA	2:G:4549:VAL:HG22	1.97	0.45
2:J:551:LEU:HB3	2:J:589:LEU:HD21	1.98	0.45
2:J:636:ASN:HB3	2:J:702:TRP:CZ2	2.50	0.45
2:J:642:THR:O	2:J:782:SER:HA	2.15	0.45
2:J:1104:TRP:CE2	2:J:1153:ILE:HB	2.51	0.45
2:J:1122:TYR:CE1	2:J:1133:HIS:CD2	3.04	0.45
2:J:1849:LEU:HG	2:J:1945:TYR:CZ	2.51	0.45
2:J:2181:SER:O	2:J:2185:ILE:HG12	2.16	0.45
2:J:3563:VAL:HG12	2:J:3569:LEU:HG	1.99	0.45
2:J:3766:GLN:HG2	2:J:3769:ARG:NH2	2.32	0.45
2:J:4207:MET:HE1	2:J:4209:GLN:HB2	1.98	0.45
3:M:98:ASP:OD1	3:M:98:ASP:N	2.49	0.45
2:B:268:SER:HB3	2:B:269:TRP:CE3	2.52	0.45
2:B:877:ASN:HD22	2:B:1045:THR:HG23	1.82	0.45
2:B:1101:ARG:HG3	2:B:1125:ASN:HB2	1.99	0.45
2:B:2112:GLN:O	2:B:2114:PRO:HD3	2.17	0.45
2:B:3102:ASP:O	2:B:3106:MET:HG2	2.16	0.45
2:B:3192:GLU:O	2:B:3196:ARG:HG2	2.17	0.45
2:B:3833:GLN:O	2:B:3837:GLN:HG2	2.16	0.45
2:B:4720:VAL:O	2:B:4724:VAL:HG23	2.16	0.45
2:B:4874:MET:HE2	2:B:4874:MET:N	2.32	0.45
2:E:162:LYS:HZ2	2:J:3984:ARG:HH12	1.64	0.45
2:E:1758:ARG:NH2	2:E:2036:GLN:HG3	2.31	0.45
2:E:2138:LEU:HB2	2:E:2139:PRO:HD3	1.99	0.45
2:E:2381:GLU:HB3	2:E:2385:ARG:HH21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2809:ILE:H	2:E:2809:ILE:HD12	1.81	0.45
2:G:144:GLU:HG3	2:G:175:SER:HB2	1.97	0.45
2:G:1092:PHE:CZ	2:G:1200:GLY:HA3	2.51	0.45
2:G:2112:GLN:O	2:G:2114:PRO:HD3	2.17	0.45
2:G:2211:MET:HA	2:G:2214:VAL:HG12	1.97	0.45
2:G:2559:LEU:O	2:G:2563:THR:HG23	2.16	0.45
2:G:5003:HIS:HA	2:G:5007:GLU:OE2	2.16	0.45
2:J:2112:GLN:O	2:J:2114:PRO:HD3	2.17	0.45
2:J:2138:LEU:HB2	2:J:2139:PRO:HD3	1.99	0.45
2:J:3034:LYS:HA	2:J:3037:GLU:HG3	1.98	0.45
2:J:4546:VAL:HA	2:J:4549:VAL:HG22	1.97	0.45
2:J:4675:LYS:O	2:J:4679:ARG:HG2	2.17	0.45
2:B:1978:ALA:HA	2:B:1981:MET:HE3	1.98	0.45
2:B:2354:VAL:HA	2:B:2357:LEU:HG	1.99	0.45
2:B:3226:GLU:HA	2:B:3229:ILE:HG22	1.99	0.45
2:B:3802:ILE:HD11	2:B:3887:PHE:HB2	1.98	0.45
2:E:1104:TRP:CE2	2:E:1153:ILE:HB	2.51	0.45
2:E:2431:ASP:HB2	2:E:2501:SER:HB2	1.98	0.45
2:E:2538:THR:HG23	2:E:2541:PHE:H	1.81	0.45
2:E:4874:MET:HE2	2:E:4874:MET:N	2.32	0.45
2:G:550:LYS:HA	2:G:553:ARG:HG2	1.99	0.45
2:G:1006:SER:OG	2:G:1017:ARG:NH2	2.49	0.45
2:G:1478:ASP:OD1	2:G:1482:ASN:N	2.48	0.45
2:G:2469:ILE:HG13	2:G:2502:MET:HE3	1.98	0.45
2:G:4694:ASP:OD1	2:G:4694:ASP:N	2.50	0.45
2:G:4733:GLY:HA3	2:G:4736:ARG:HH11	1.82	0.45
2:J:280:LEU:O	2:J:313:SER:HA	2.17	0.45
2:J:497:TYR:HB2	2:J:503:PHE:CE1	2.52	0.45
2:J:550:LYS:HA	2:J:553:ARG:HG2	1.99	0.45
2:J:1435:TYR:CE1	2:J:1518:CYS:HB2	2.52	0.45
2:J:1600:LEU:O	2:J:1601:MET:HE2	2.16	0.45
3:K:6:GLU:OE1	3:K:22:CYS:HB2	2.15	0.45
3:K:71:ARG:CG	3:K:78:VAL:HG22	2.46	0.45
2:B:34:LYS:H	2:B:53:SER:HB2	1.82	0.45
2:B:835:ARG:HB3	2:B:838:HIS:HE1	1.81	0.45
2:B:1758:ARG:NH2	2:B:2036:GLN:HG3	2.31	0.45
2:B:2291:GLN:OE1	2:B:2291:GLN:N	2.40	0.45
2:B:2604:GLU:HG2	2:B:2639:MET:HG2	1.99	0.45
2:B:3900:GLN:HB3	2:B:3976:ASN:HD21	1.82	0.45
2:E:483:MET:O	2:E:486:LEU:HG	2.17	0.45
2:E:541:SER:HA	2:E:574:VAL:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:722:TRP:CZ2	2:E:727:ALA:HB2	2.51	0.45
2:E:1810:LYS:O	2:E:1814:MET:HG2	2.17	0.45
2:E:2003:GLN:H	2:E:2003:GLN:CD	2.24	0.45
2:E:3014:CYS:SG	2:E:3074:SER:HB3	2.57	0.45
2:E:3375:GLU:HA	2:E:3378:GLN:OE1	2.16	0.45
2:E:3410:PRO:HA	2:E:3413:ILE:HD12	1.99	0.45
2:G:181:HIS:ND1	2:G:198:THR:OG1	2.50	0.45
2:G:877:ASN:HD22	2:G:1045:THR:HG23	1.82	0.45
2:G:3014:CYS:SG	2:G:3074:SER:HB3	2.57	0.45
2:G:3018:LEU:HB2	2:G:3074:SER:HA	1.99	0.45
2:G:3568:SER:HA	2:G:3571:TRP:CD1	2.52	0.45
2:J:795:GLY:HA3	2:J:812:HIS:CE1	2.51	0.45
2:J:1227:ALA:HA	2:J:1827:ARG:HH22	1.82	0.45
2:J:3014:CYS:SG	2:J:3074:SER:HB3	2.57	0.45
2:J:3051:ARG:HH22	2:J:3102:ASP:HB2	1.82	0.45
2:J:4720:VAL:O	2:J:4724:VAL:HG23	2.16	0.45
2:J:5003:HIS:HA	2:J:5007:GLU:OE2	2.16	0.45
3:C:66:ARG:HH11	3:C:83:ASN:HB3	1.82	0.45
1:H:7:ILE:O	2:G:719:LEU:HD11	2.17	0.45
2:B:722:TRP:CZ2	2:B:727:ALA:HB2	2.51	0.45
2:B:795:GLY:HA3	2:B:812:HIS:CE1	2.51	0.45
2:B:984:LEU:HB2	2:B:1055:PRO:HG3	1.99	0.45
2:B:1104:TRP:CE2	2:B:1153:ILE:HB	2.51	0.45
2:B:1733:GLU:HG2	2:B:2201:LEU:HA	1.99	0.45
2:B:2738:ARG:NH2	2:B:2888:ARG:HH21	2.15	0.45
2:B:3014:CYS:SG	2:B:3074:SER:HB3	2.57	0.45
2:E:20:VAL:HA	2:E:204:PRO:HA	1.98	0.45
2:E:533:ASN:HB3	2:E:536:ASN:HB2	1.99	0.45
2:E:893:TYR:HA	2:E:904:HIS:H	1.82	0.45
2:E:1086:GLY:H	2:E:1156:THR:HG23	1.82	0.45
2:E:2448:GLY:O	2:E:2452:ARG:HG2	2.17	0.45
2:E:3219:TYR:O	2:E:3227:ARG:NH2	2.49	0.45
2:E:3538:THR:O	2:E:3542:LEU:HG	2.17	0.45
2:E:3716:LEU:HD21	2:E:3793:MET:HE2	1.98	0.45
2:E:3790:THR:OG1	2:E:3838:THR:OG1	2.21	0.45
2:E:4071:ILE:HD13	2:E:4103:PHE:CE2	2.50	0.45
2:G:280:LEU:O	2:G:313:SER:HA	2.17	0.45
2:G:893:TYR:HA	2:G:904:HIS:H	1.82	0.45
2:G:1431:THR:O	2:G:1431:THR:HG22	2.17	0.45
2:G:1622:GLU:OE2	2:G:1623:ARG:NH1	2.47	0.45
2:G:1804:LEU:HB3	2:G:1853:ILE:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2121:PHE:CE1	2:G:3701:LEU:HD22	2.51	0.45
2:G:2261:SER:HA	2:G:2265:LEU:HD23	1.99	0.45
2:G:2956:ALA:O	2:G:2960:LEU:HG	2.17	0.45
2:G:3051:ARG:HH22	2:G:3102:ASP:HB2	1.82	0.45
2:G:3175:LEU:HD13	2:G:3190:LEU:HD13	1.98	0.45
2:G:3563:VAL:HG12	2:G:3569:LEU:HG	1.99	0.45
2:J:893:TYR:HA	2:J:904:HIS:H	1.82	0.45
2:J:1071:ARG:HB3	2:J:1196:PRO:HG3	1.99	0.45
2:J:1431:THR:O	2:J:1431:THR:HG22	2.17	0.45
2:J:1622:GLU:OE2	2:J:1623:ARG:NH1	2.47	0.45
2:J:1758:ARG:NH2	2:J:2036:GLN:HG3	2.31	0.45
2:J:2809:ILE:H	2:J:2809:ILE:HD12	1.81	0.45
2:J:3226:GLU:HA	2:J:3229:ILE:HG22	1.99	0.45
2:J:3516:LYS:HG3	2:J:3517:MET:H	1.82	0.45
2:J:3937:TYR:HA	2:J:3940:LYS:HD3	1.98	0.45
3:F:98:ASP:OD1	3:F:98:ASP:N	2.49	0.45
1:H:55:VAL:HG23	2:G:1783:VAL:HB	1.99	0.45
2:B:533:ASN:HB3	2:B:536:ASN:HB2	1.99	0.45
2:B:893:TYR:HA	2:B:904:HIS:H	1.82	0.45
2:B:969:PRO:HG2	2:B:971:ASP:HB2	1.98	0.45
2:B:1018:ASN:HB3	2:B:1021:LEU:HD23	1.99	0.45
2:B:1156:THR:OG1	2:B:1157:GLU:OE1	2.34	0.45
2:B:3514:LEU:HD12	2:B:3606:LEU:HD22	1.99	0.45
2:B:4694:ASP:OD1	2:B:4694:ASP:N	2.50	0.45
2:E:280:LEU:O	2:E:313:SER:HA	2.17	0.45
2:E:550:LYS:HA	2:E:553:ARG:HG2	1.99	0.45
2:E:877:ASN:HD22	2:E:1045:THR:HG23	1.82	0.45
2:E:2642:LYS:HA	2:E:2645:THR:HG22	1.99	0.45
2:E:3018:LEU:HB2	2:E:3074:SER:HA	1.99	0.45
2:E:3350:ARG:HB2	2:E:3353:LEU:HD13	1.99	0.45
2:G:483:MET:O	2:G:486:LEU:HG	2.17	0.45
2:G:969:PRO:HG2	2:G:971:ASP:HB2	1.98	0.45
2:G:1101:ARG:HG3	2:G:1125:ASN:HB2	1.99	0.45
2:G:1420:ASN:HB2	2:G:1570:LYS:HD2	1.99	0.45
2:G:1435:TYR:CE1	2:G:1518:CYS:HB2	2.52	0.45
2:G:3350:ARG:HB2	2:G:3353:LEU:HD13	1.99	0.45
2:J:34:LYS:H	2:J:53:SER:HB2	1.82	0.45
2:J:1171:SER:OG	2:J:1175:SER:N	2.50	0.45
2:J:2912:THR:HG23	2:J:2914:LYS:HG3	1.99	0.45
2:J:2957:PHE:O	2:J:2961:GLN:HG3	2.17	0.45
2:J:3375:GLU:HA	2:J:3378:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:51:ILE:HG23	3:C:71:ARG:HE	1.82	0.45
3:M:71:ARG:CG	3:M:78:VAL:HG22	2.46	0.45
1:A:13:ARG:HG3	1:A:14:THR:N	2.33	0.44
2:B:1065:ASN:ND2	2:B:1462:MET:HG3	2.33	0.44
2:B:1431:THR:O	2:B:1431:THR:HG22	2.17	0.44
2:B:1435:TYR:CE1	2:B:1518:CYS:HB2	2.52	0.44
2:B:2035:HIS:O	2:B:2039:LEU:HG	2.17	0.44
2:B:2469:ILE:HG13	2:B:2502:MET:HE3	1.98	0.44
2:B:3034:LYS:HA	2:B:3037:GLU:HG3	1.98	0.44
2:B:4675:LYS:O	2:B:4679:ARG:HG2	2.17	0.44
2:B:4860:ARG:NH1	2:E:4582:VAL:HG11	2.31	0.44
2:E:215:THR:HB	2:E:271:GLY:O	2.17	0.44
2:E:1092:PHE:CZ	2:E:1200:GLY:HA3	2.51	0.44
2:E:1804:LEU:HB3	2:E:1853:ILE:HG21	1.99	0.44
2:E:2261:SER:HA	2:E:2265:LEU:HD23	1.99	0.44
2:E:3172:ILE:HG13	2:E:3175:LEU:HD12	1.97	0.44
2:E:4738:ALA:HA	2:E:4743:MET:SD	2.56	0.44
2:E:4746:ALA:O	2:E:4749:GLU:HG2	2.18	0.44
2:G:2751:LEU:HD23	2:G:2751:LEU:H	1.83	0.44
2:G:3172:ILE:HG13	2:G:3175:LEU:HD12	1.97	0.44
2:G:3313:ASN:HD21	2:G:3353:LEU:HD11	1.82	0.44
2:G:3514:LEU:HD12	2:G:3606:LEU:HD22	1.99	0.44
2:J:1086:GLY:H	2:J:1156:THR:HG23	1.82	0.44
2:J:2261:SER:HA	2:J:2265:LEU:HD23	1.99	0.44
2:J:2538:THR:HG23	2:J:2541:PHE:H	1.81	0.44
2:J:3068:LEU:HD13	2:J:3139:VAL:HG21	1.99	0.44
2:J:4694:ASP:N	2:J:4694:ASP:OD1	2.50	0.44
3:M:51:ILE:HG23	3:M:71:ARG:HE	1.82	0.44
3:M:66:ARG:HH11	3:M:83:ASN:HB3	1.81	0.44
1:H:13:ARG:HG3	1:H:14:THR:H	1.83	0.44
1:H:31:GLN:NE2	2:G:1299:GLN:HB3	2.32	0.44
2:B:2448:GLY:O	2:B:2452:ARG:HG2	2.17	0.44
2:B:2621:HIS:O	2:B:2624:ARG:HG2	2.17	0.44
2:B:3018:LEU:HB2	2:B:3074:SER:HA	1.99	0.44
2:B:3350:ARG:HB2	2:B:3353:LEU:HD13	1.99	0.44
2:B:3766:GLN:HG2	2:B:3769:ARG:NH2	2.32	0.44
2:B:4071:ILE:HD13	2:B:4103:PHE:CE2	2.50	0.44
2:E:1065:ASN:ND2	2:E:1462:MET:HG3	2.33	0.44
2:E:2964:LEU:O	2:E:2967:MET:HB3	2.18	0.44
2:E:2965:ARG:HA	2:E:2968:ASP:OD2	2.17	0.44
2:E:3102:ASP:O	2:E:3106:MET:HG2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3604:TYR:O	2:E:3607:GLU:HG3	2.18	0.44
2:E:4184:MET:HG3	2:E:5021:PHE:HA	1.99	0.44
2:G:268:SER:HB3	2:G:269:TRP:CE3	2.52	0.44
2:G:2261:SER:HB3	2:G:2273:LEU:HB2	1.99	0.44
2:G:3192:GLU:O	2:G:3196:ARG:HG2	2.17	0.44
2:G:3229:ILE:HG23	2:G:3230:LEU:HD22	2.00	0.44
2:G:3516:LYS:HG3	2:G:3517:MET:SD	2.58	0.44
2:G:3900:GLN:HB3	2:G:3976:ASN:HD21	1.82	0.44
2:G:4235:VAL:HG11	2:G:5019:TRP:CH2	2.52	0.44
2:G:4874:MET:HE2	2:G:4874:MET:N	2.32	0.44
2:J:560:ILE:HA	2:J:563:VAL:HG12	2.00	0.44
2:J:2965:ARG:HA	2:J:2968:ASP:OD2	2.17	0.44
2:J:3192:GLU:O	2:J:3196:ARG:HG2	2.17	0.44
2:J:3313:ASN:HD21	2:J:3353:LEU:HD11	1.82	0.44
2:J:3538:THR:O	2:J:3542:LEU:HG	2.16	0.44
2:J:4063:ASP:O	2:J:4067:LYS:HG3	2.17	0.44
1:A:66:MET:SD	1:A:103:LEU:HB2	2.58	0.44
1:H:13:ARG:HG3	1:H:14:THR:N	2.33	0.44
2:B:183:SER:N	2:B:190:GLN:O	2.45	0.44
2:B:2352:VAL:O	2:B:2356:LEU:HG	2.18	0.44
2:B:2367:ALA:HB3	2:B:2426:TYR:CE1	2.53	0.44
2:B:2956:ALA:O	2:B:2960:LEU:HG	2.17	0.44
2:B:2957:PHE:O	2:B:2961:GLN:HG3	2.17	0.44
2:B:2981:VAL:HA	2:B:2985:ARG:HD2	2.00	0.44
2:B:3223:SER:HB3	2:B:3225:ARG:NH1	2.33	0.44
2:B:4184:MET:HG3	2:B:5021:PHE:HA	1.99	0.44
2:E:984:LEU:HB2	2:E:1055:PRO:HG3	1.99	0.44
2:E:3313:ASN:HD21	2:E:3353:LEU:HD11	1.82	0.44
2:E:3545:THR:HG23	2:E:3548:GLU:H	1.81	0.44
2:G:2122:SER:O	2:G:2126:ARG:HG3	2.18	0.44
2:G:3068:LEU:HD13	2:G:3139:VAL:HG21	1.99	0.44
2:G:3648:ARG:O	2:G:3652:MET:HG2	2.18	0.44
2:G:3937:TYR:HA	2:G:3940:LYS:HD3	1.98	0.44
2:G:4675:LYS:O	2:G:4679:ARG:HG2	2.17	0.44
2:J:215:THR:HB	2:J:271:GLY:O	2.17	0.44
2:J:1661:ARG:O	2:J:1665:HIS:HD2	2.01	0.44
2:J:2981:VAL:HA	2:J:2985:ARG:HD2	2.00	0.44
2:J:3175:LEU:HD13	2:J:3190:LEU:HD13	1.98	0.44
2:J:3350:ARG:HB2	2:J:3353:LEU:HD13	1.99	0.44
2:J:3516:LYS:HG3	2:J:3517:MET:SD	2.58	0.44
2:J:4848:VAL:O	2:J:4852:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:66:ARG:HH11	3:K:83:ASN:HB3	1.81	0.44
2:B:483:MET:O	2:B:486:LEU:HG	2.17	0.44
2:B:1644:GLU:HB3	2:B:1646:ARG:HG2	1.99	0.44
2:B:1683:HIS:NE2	2:B:1798:LEU:O	2.43	0.44
2:B:2261:SER:HA	2:B:2265:LEU:HD23	1.99	0.44
2:B:2299:VAL:HG11	2:B:2356:LEU:HB3	1.99	0.44
2:B:2965:ARG:HA	2:B:2968:ASP:OD2	2.17	0.44
2:B:3070:ILE:HD13	2:B:3073:ARG:NH1	2.33	0.44
2:B:3323:ILE:HA	2:B:3335:MET:HE1	2.00	0.44
2:B:3410:PRO:HA	2:B:3413:ILE:HD12	1.99	0.44
2:B:3579:LEU:HD12	2:B:3580:PRO:HD2	2.00	0.44
2:B:4207:MET:HE1	2:B:4209:GLN:HB2	1.98	0.44
2:B:4688:ILE:HG22	2:B:4689:THR:HG23	2.00	0.44
2:B:4733:GLY:HA3	2:B:4736:ARG:HH11	1.82	0.44
2:E:2121:PHE:CE1	2:E:3701:LEU:HD22	2.51	0.44
2:E:3068:LEU:HD13	2:E:3139:VAL:HG21	1.99	0.44
2:E:4235:VAL:HG11	2:E:5019:TRP:CH2	2.52	0.44
2:G:547:VAL:O	2:G:551:LEU:HG	2.18	0.44
2:G:1171:SER:OG	2:G:1175:SER:N	2.50	0.44
2:G:1758:ARG:NH2	2:G:2036:GLN:HG3	2.31	0.44
2:G:1810:LYS:O	2:G:1814:MET:HG2	2.17	0.44
2:G:2195:PRO:HA	2:G:2198:MET:HE2	1.98	0.44
2:J:683:ARG:HG2	2:J:717:ASP:HB3	2.00	0.44
2:J:1776:HIS:NE2	2:J:2157:GLU:OE2	2.46	0.44
2:J:1810:LYS:O	2:J:1814:MET:HG2	2.17	0.44
2:J:2126:ARG:NH2	2:J:2133:GLU:OE2	2.48	0.44
2:J:2261:SER:HB3	2:J:2273:LEU:HB2	2.00	0.44
2:J:2325:PRO:CG	2:J:2422:ILE:HD13	2.48	0.44
2:J:2367:ALA:HB3	2:J:2426:TYR:CE1	2.53	0.44
2:J:2642:LYS:HA	2:J:2645:THR:HG22	1.99	0.44
2:J:3405:LEU:HG	2:J:3409:TYR:CE1	2.53	0.44
2:J:3802:ILE:HD11	2:J:3887:PHE:HB2	1.98	0.44
2:J:4046:ASP:O	2:J:4049:VAL:HG22	2.18	0.44
2:J:4688:ILE:HG22	2:J:4689:THR:HG23	2.00	0.44
2:J:4874:MET:HE2	2:J:4874:MET:N	2.32	0.44
1:I:66:MET:SD	1:I:103:LEU:HB2	2.58	0.44
2:B:683:ARG:HG2	2:B:717:ASP:HB3	2.00	0.44
2:B:1071:ARG:HB3	2:B:1196:PRO:HG3	1.99	0.44
2:B:1256:GLU:OE1	2:B:1271:ARG:NH2	2.46	0.44
2:B:1297:PHE:CD2	2:B:1522:LEU:HA	2.51	0.44
2:E:1978:ALA:HA	2:E:1981:MET:HE3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2291:GLN:CG	2:E:2293:GLN:HG2	2.47	0.44
2:E:2738:ARG:NH2	2:E:2888:ARG:HH21	2.15	0.44
2:E:2956:ALA:O	2:E:2960:LEU:HG	2.17	0.44
2:E:2957:PHE:O	2:E:2961:GLN:HG3	2.17	0.44
2:E:2981:VAL:HA	2:E:2985:ARG:HD2	2.00	0.44
2:E:3579:LEU:HD12	2:E:3580:PRO:HD2	1.99	0.44
2:E:4541:TRP:CE3	2:E:4544:LEU:HD21	2.53	0.44
2:E:4675:LYS:O	2:E:4679:ARG:HG2	2.17	0.44
2:E:4733:GLY:HA3	2:E:4736:ARG:HH11	1.82	0.44
2:G:292:ALA:HB2	2:G:312:THR:HG22	1.97	0.44
2:G:1443:GLN:HE22	2:G:1556:PRO:HA	1.82	0.44
2:G:1568:LYS:HE2	2:G:1574:PRO:HD3	1.99	0.44
2:G:2621:HIS:O	2:G:2624:ARG:HG2	2.17	0.44
2:G:3516:LYS:HG3	2:G:3517:MET:H	1.82	0.44
2:G:4063:ASP:O	2:G:4067:LYS:HG3	2.17	0.44
2:J:993:HIS:CE1	2:J:1027:LEU:HD21	2.52	0.44
2:J:1423:ASP:OD2	2:J:1426:ILE:HG12	2.18	0.44
2:J:2964:LEU:O	2:J:2967:MET:HB3	2.18	0.44
2:J:3354:LEU:HD22	2:J:3423:TRP:CZ2	2.52	0.44
2:J:3604:TYR:O	2:J:3607:GLU:HG3	2.18	0.44
2:J:3648:ARG:O	2:J:3652:MET:HG2	2.18	0.44
2:J:4541:TRP:CE3	2:J:4544:LEU:HD21	2.53	0.44
3:C:71:ARG:HD2	3:C:71:ARG:C	2.43	0.44
3:C:71:ARG:CG	3:C:78:VAL:HG22	2.46	0.44
2:B:1227:ALA:HA	2:B:1827:ARG:HH22	1.82	0.44
2:B:1420:ASN:HB2	2:B:1570:LYS:HD2	1.99	0.44
2:B:1449:TRP:HB2	2:B:1553:PHE:HB2	1.99	0.44
2:B:2195:PRO:HA	2:B:2198:MET:HE2	1.98	0.44
2:B:2482:ASP:N	2:B:2482:ASP:OD1	2.51	0.44
2:B:2595:LEU:CB	2:B:2600:ARG:HG3	2.48	0.44
2:B:3313:ASN:HD21	2:B:3353:LEU:HD11	1.82	0.44
2:B:4848:VAL:O	2:B:4852:THR:HG23	2.18	0.44
2:E:560:ILE:HA	2:E:563:VAL:HG12	2.00	0.44
2:E:683:ARG:HG2	2:E:717:ASP:HB3	2.00	0.44
2:E:835:ARG:HB3	2:E:838:HIS:HE1	1.81	0.44
2:E:1431:THR:O	2:E:1431:THR:HG22	2.17	0.44
2:E:3648:ARG:O	2:E:3652:MET:HG2	2.18	0.44
2:E:3766:GLN:HG2	2:E:3769:ARG:NH2	2.32	0.44
2:E:3900:GLN:HB3	2:E:3976:ASN:HD21	1.82	0.44
2:E:3921:ASP:O	2:E:3925:ARG:HG3	2.18	0.44
2:E:4046:ASP:O	2:E:4049:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:20:VAL:HA	2:G:204:PRO:HA	1.98	0.44
2:G:533:ASN:HB3	2:G:536:ASN:HB2	1.99	0.44
2:G:683:ARG:HG2	2:G:717:ASP:HB3	2.00	0.44
2:G:1071:ARG:HB3	2:G:1196:PRO:HG3	1.99	0.44
2:G:1086:GLY:H	2:G:1156:THR:HG23	1.82	0.44
2:G:2197:LEU:O	2:G:2201:LEU:HG	2.16	0.44
2:G:2738:ARG:NH2	2:G:2888:ARG:HH21	2.15	0.44
2:G:2912:THR:HG23	2:G:2914:LYS:HG3	1.99	0.44
2:J:533:ASN:HB3	2:J:536:ASN:HB2	1.99	0.44
2:J:2354:VAL:HA	2:J:2357:LEU:HG	1.99	0.44
2:J:2469:ILE:HD12	2:J:2472:LEU:HD12	1.99	0.44
2:B:2469:ILE:HD12	2:B:2472:LEU:HD12	1.99	0.44
2:B:2697:ARG:NH2	2:B:2698:MET:HB3	2.33	0.44
2:B:2965:ARG:O	2:B:2969:ILE:HG13	2.18	0.44
2:B:4541:TRP:CE3	2:B:4544:LEU:HD21	2.53	0.44
2:B:4746:ALA:O	2:B:4749:GLU:HG2	2.18	0.44
2:E:363:ASP:HB3	2:E:366:ALA:HB3	1.99	0.44
2:E:795:GLY:HA3	2:E:812:HIS:CE1	2.51	0.44
2:E:1071:ARG:HB3	2:E:1196:PRO:HG3	1.99	0.44
2:E:1423:ASP:OD2	2:E:1426:ILE:HG12	2.18	0.44
2:E:2367:ALA:HB3	2:E:2426:TYR:CE1	2.53	0.44
2:E:2888:ARG:HH11	2:E:2891:LYS:HZ1	1.64	0.44
2:E:3169:LEU:HA	2:E:3172:ILE:HG22	2.00	0.44
2:E:3516:LYS:HG3	2:E:3517:MET:SD	2.58	0.44
2:E:4063:ASP:O	2:E:4067:LYS:HG3	2.17	0.44
2:E:4688:ILE:HG22	2:E:4689:THR:HG23	2.00	0.44
2:E:4694:ASP:N	2:E:4694:ASP:OD1	2.50	0.44
2:G:1156:THR:OG1	2:G:1157:GLU:OE1	2.34	0.44
2:G:1714:LEU:O	2:G:1718:ILE:HG12	2.18	0.44
2:G:2595:LEU:CB	2:G:2600:ARG:HG3	2.48	0.44
2:G:2697:ARG:NH2	2:G:2698:MET:HB3	2.33	0.44
2:G:2957:PHE:O	2:G:2961:GLN:HG3	2.17	0.44
2:G:3223:SER:HB3	2:G:3225:ARG:NH1	2.33	0.44
2:G:3604:TYR:O	2:G:3607:GLU:HG3	2.18	0.44
2:J:547:VAL:O	2:J:551:LEU:HG	2.18	0.44
2:J:1065:ASN:ND2	2:J:1462:MET:HG3	2.33	0.44
2:J:1161:ILE:HG13	2:J:1177:THR:HG22	2.00	0.44
2:J:1478:ASP:OD1	2:J:1482:ASN:N	2.48	0.44
2:J:1714:LEU:O	2:J:1718:ILE:HG12	2.18	0.44
2:J:1733:GLU:HG2	2:J:2201:LEU:HA	1.99	0.44
2:J:3018:LEU:HB2	2:J:3074:SER:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3229:ILE:HG23	2:J:3230:LEU:HD22	2.00	0.44
2:J:3579:LEU:HD12	2:J:3580:PRO:HD2	1.99	0.44
2:J:4202:ARG:HA	2:J:4990:PHE:HZ	1.83	0.44
2:J:4235:VAL:HG11	2:J:5019:TRP:CH2	2.52	0.44
2:B:214:VAL:HA	2:B:341:TYR:CD1	2.53	0.44
2:B:1623:ARG:HD3	2:B:1623:ARG:H	1.83	0.44
2:B:2325:PRO:CG	2:B:2422:ILE:HD13	2.48	0.44
2:B:3405:LEU:HG	2:B:3409:TYR:CE1	2.53	0.44
2:B:3648:ARG:O	2:B:3652:MET:HG2	2.18	0.44
2:B:4913:ARG:NH2	2:E:4888:TYR:OH	2.51	0.44
2:E:2112:GLN:O	2:E:2114:PRO:HD3	2.17	0.44
2:E:2469:ILE:HD12	2:E:2472:LEU:HD12	1.99	0.44
2:E:3042:LEU:HA	2:E:3045:LYS:HD2	2.00	0.44
2:E:3354:LEU:HD22	2:E:3423:TRP:CZ2	2.52	0.44
2:E:3568:SER:HA	2:E:3571:TRP:CD1	2.52	0.44
2:E:4027:LEU:HD12	2:E:4028:LEU:N	2.33	0.44
2:G:34:LYS:H	2:G:53:SER:HB2	1.82	0.44
2:G:977:LEU:HD11	2:G:1044:ARG:HG2	2.00	0.44
2:G:1065:ASN:ND2	2:G:1462:MET:HG3	2.33	0.44
2:G:1077:ALA:HB3	2:G:1189:LEU:HD22	2.00	0.44
2:G:1839:VAL:HG21	2:G:1934:SER:HB2	2.00	0.44
2:G:2352:VAL:O	2:G:2356:LEU:HG	2.18	0.44
2:G:2759:ALA:HA	2:G:2809:ILE:HG12	2.00	0.44
2:G:3405:LEU:HG	2:G:3409:TYR:CE1	2.53	0.44
2:G:3579:LEU:HD12	2:G:3580:PRO:HD2	1.99	0.44
2:G:4541:TRP:CE3	2:G:4544:LEU:HD21	2.53	0.44
2:J:483:MET:O	2:J:486:LEU:HG	2.17	0.44
2:J:541:SER:HA	2:J:574:VAL:HG12	1.98	0.44
2:J:877:ASN:HD22	2:J:1045:THR:HG23	1.82	0.44
2:J:977:LEU:HD11	2:J:1044:ARG:HG2	2.00	0.44
2:J:1018:ASN:HB3	2:J:1021:LEU:HD23	1.99	0.44
2:J:2595:LEU:CB	2:J:2600:ARG:HG3	2.48	0.44
2:J:2604:GLU:HG2	2:J:2639:MET:HG2	1.99	0.44
2:J:2738:ARG:HH22	2:J:2888:ARG:HH21	1.66	0.44
2:J:3514:LEU:HD12	2:J:3606:LEU:HD22	1.99	0.44
2:J:3568:SER:HA	2:J:3571:TRP:CD1	2.52	0.44
2:J:3900:GLN:HB3	2:J:3976:ASN:HD21	1.82	0.44
3:C:3:GLN:HE21	3:C:119:GLN:HE22	1.66	0.44
3:K:51:ILE:HG23	3:K:71:ARG:HE	1.82	0.44
3:M:3:GLN:HE21	3:M:119:GLN:HE22	1.66	0.44
1:A:3:GLU:HB3	1:A:75:THR:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:3:GLU:HB3	1:H:75:THR:CG2	2.48	0.44
1:I:13:ARG:HG3	1:I:14:THR:H	1.83	0.44
2:B:181:HIS:ND1	2:B:198:THR:OG1	2.50	0.44
2:B:977:LEU:HD11	2:B:1044:ARG:HG2	2.00	0.44
2:B:1810:LYS:O	2:B:1814:MET:HG2	2.17	0.44
2:B:2381:GLU:HB3	2:B:2385:ARG:HH21	1.82	0.44
2:B:2642:LYS:HA	2:B:2645:THR:HG22	1.99	0.44
2:B:2759:ALA:HA	2:B:2809:ILE:HG12	2.00	0.44
2:B:3375:GLU:O	2:B:3379:LEU:HD23	2.18	0.44
2:E:82:LEU:HD11	2:E:144:GLU:HB3	2.00	0.44
2:E:214:VAL:HA	2:E:341:TYR:CD1	2.53	0.44
2:E:977:LEU:HD11	2:E:1044:ARG:HG2	2.00	0.44
2:E:1227:ALA:HA	2:E:1827:ARG:HH22	1.82	0.44
2:E:1443:GLN:HE22	2:E:1556:PRO:HA	1.82	0.44
2:E:1644:GLU:HB3	2:E:1646:ARG:HG2	1.99	0.44
2:E:2680:TRP:HZ3	2:E:2962:GLN:HG3	1.82	0.44
2:E:3070:ILE:HD13	2:E:3073:ARG:NH1	2.33	0.44
2:E:3405:LEU:HG	2:E:3409:TYR:CE1	2.53	0.44
2:E:4848:VAL:O	2:E:4852:THR:HG23	2.18	0.44
2:G:1927:LEU:O	2:G:2104:ARG:NH2	2.42	0.44
2:G:2354:VAL:HA	2:G:2357:LEU:HG	1.99	0.44
2:G:2367:ALA:HB3	2:G:2426:TYR:CE1	2.53	0.44
2:G:2604:GLU:HG2	2:G:2639:MET:HG2	1.99	0.44
2:G:2965:ARG:O	2:G:2969:ILE:HG13	2.18	0.44
2:G:2981:VAL:HA	2:G:2985:ARG:HD2	2.00	0.44
2:G:3070:ILE:HD13	2:G:3073:ARG:NH1	2.33	0.44
2:G:3323:ILE:HA	2:G:3335:MET:HE1	2.00	0.44
2:G:4184:MET:HG3	2:G:5021:PHE:HA	1.99	0.44
2:G:4720:VAL:O	2:G:4724:VAL:HG23	2.16	0.44
2:G:4848:VAL:O	2:G:4852:THR:HG23	2.18	0.44
2:G:4904:PRO:HD3	2:G:4913:ARG:NH2	2.28	0.44
2:J:1077:ALA:HB3	2:J:1189:LEU:HD22	2.00	0.44
2:J:1839:VAL:HG21	2:J:1934:SER:HB2	2.00	0.44
2:J:2003:GLN:H	2:J:2003:GLN:CD	2.24	0.44
2:J:2122:SER:O	2:J:2126:ARG:HG3	2.18	0.44
2:J:2448:GLY:O	2:J:2452:ARG:HG2	2.17	0.44
2:J:2621:HIS:O	2:J:2624:ARG:HG2	2.17	0.44
2:J:2738:ARG:NH2	2:J:2888:ARG:HH21	2.15	0.44
2:J:3169:LEU:HA	2:J:3172:ILE:HG22	2.00	0.44
2:J:3545:THR:HG23	2:J:3548:GLU:H	1.81	0.44
3:M:105:ASN:ND2	3:M:108:GLY:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3:GLU:HB3	1:D:75:THR:CG2	2.48	0.43
1:H:7:ILE:HB	1:H:71:ARG:O	2.18	0.43
2:B:215:THR:HB	2:B:271:GLY:O	2.17	0.43
2:B:1661:ARG:O	2:B:1665:HIS:HD2	2.01	0.43
2:B:1804:LEU:HB3	2:B:1853:ILE:HG21	1.99	0.43
2:B:3042:LEU:HA	2:B:3045:LYS:HD2	2.00	0.43
2:B:3354:LEU:HD22	2:B:3423:TRP:CZ2	2.52	0.43
2:E:1077:ALA:HB3	2:E:1189:LEU:HD22	2.00	0.43
2:E:1171:SER:OG	2:E:1175:SER:N	2.50	0.43
2:E:1244:GLN:OE1	2:E:1646:ARG:NH1	2.51	0.43
2:E:1568:LYS:HE2	2:E:1574:PRO:HD3	1.99	0.43
2:E:1661:ARG:O	2:E:1665:HIS:HD2	2.00	0.43
2:E:1758:ARG:NH1	2:E:2036:GLN:HG3	2.34	0.43
2:E:2035:HIS:ND1	2:E:3657:TYR:OH	2.46	0.43
2:E:2482:ASP:N	2:E:2482:ASP:OD1	2.51	0.43
2:E:3021:PRO:HG3	2:E:3036:LYS:HZ1	1.83	0.43
2:E:3391:GLU:HA	2:E:3394:VAL:HG22	2.00	0.43
2:G:680:THR:HG23	2:G:784:SER:HB2	2.00	0.43
2:G:1161:ILE:HG13	2:G:1177:THR:HG22	2.00	0.43
2:G:1227:ALA:HA	2:G:1827:ARG:HH22	1.82	0.43
2:G:2469:ILE:HD12	2:G:2472:LEU:HD12	1.99	0.43
2:G:2496:PRO:HB3	2:G:2550:LEU:HD23	2.00	0.43
2:G:2965:ARG:HA	2:G:2968:ASP:OD2	2.17	0.43
2:G:3354:LEU:HD22	2:G:3423:TRP:CZ2	2.53	0.43
2:J:1302:ARG:H	2:J:1302:ARG:HG2	1.68	0.43
2:J:2352:VAL:O	2:J:2356:LEU:HG	2.18	0.43
2:J:2477:PRO:HG2	2:J:2536:LEU:HD11	2.00	0.43
2:J:2482:ASP:N	2:J:2482:ASP:OD1	2.51	0.43
2:J:2956:ALA:O	2:J:2960:LEU:HG	2.17	0.43
2:J:3921:ASP:O	2:J:3925:ARG:HG3	2.18	0.43
3:K:36:TRP:NE1	3:K:93:TYR:HB3	2.33	0.43
1:D:13:ARG:HG3	1:D:14:THR:H	1.83	0.43
2:B:111:HIS:HE1	2:B:113:HIS:HB3	1.83	0.43
2:B:363:ASP:HB3	2:B:366:ALA:HB3	1.99	0.43
2:B:560:ILE:HA	2:B:563:VAL:HG12	2.00	0.43
2:B:1077:ALA:HB3	2:B:1189:LEU:HD22	2.00	0.43
2:B:1171:SER:OG	2:B:1175:SER:N	2.50	0.43
2:B:1647:CYS:O	2:B:1648:MET:SD	2.77	0.43
2:B:2964:LEU:O	2:B:2967:MET:HB3	2.18	0.43
2:B:3229:ILE:HG23	2:B:3230:LEU:HD22	2.00	0.43
2:B:3516:LYS:HG3	2:B:3517:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3533:ILE:HG22	2:B:3537:LYS:HZ3	1.83	0.43
2:B:3568:SER:HA	2:B:3571:TRP:CD1	2.52	0.43
2:B:3921:ASP:O	2:B:3925:ARG:HG3	2.18	0.43
2:B:4673:ARG:NH2	2:B:4702:ASP:OD1	2.47	0.43
2:E:21:VAL:HB	2:E:205:ILE:HD11	2.00	0.43
2:E:111:HIS:HE1	2:E:113:HIS:HB3	1.83	0.43
2:E:2299:VAL:HG11	2:E:2356:LEU:HB3	1.99	0.43
2:E:2577:ILE:HG13	2:E:2578:MET:N	2.33	0.43
2:E:2621:HIS:O	2:E:2624:ARG:HG2	2.17	0.43
2:E:2738:ARG:HH22	2:E:2888:ARG:HH21	1.66	0.43
2:E:4243:PHE:O	2:E:4247:ILE:HG12	2.18	0.43
2:E:4998:LYS:HB2	2:E:4998:LYS:HE3	1.82	0.43
2:G:214:VAL:HA	2:G:341:TYR:CD1	2.53	0.43
2:G:1423:ASP:OD2	2:G:1426:ILE:HG12	2.18	0.43
2:G:2101:MET:SD	2:G:2104:ARG:NH2	2.89	0.43
2:G:2477:PRO:HG2	2:G:2536:LEU:HD11	2.00	0.43
2:G:2577:ILE:HG13	2:G:2578:MET:N	2.33	0.43
2:G:2642:LYS:HA	2:G:2645:THR:HG22	1.99	0.43
2:G:2768:PHE:HB2	2:G:2857:PRO:HD2	2.00	0.43
2:G:3145:GLN:HA	2:G:3196:ARG:NH2	2.30	0.43
2:G:4202:ARG:HA	2:G:4990:PHE:HZ	1.83	0.43
2:J:2496:PRO:HB3	2:J:2550:LEU:HD23	2.00	0.43
1:A:7:ILE:HB	1:A:71:ARG:O	2.19	0.43
1:D:66:MET:SD	1:D:103:LEU:HB2	2.58	0.43
2:B:1808:ARG:HG3	2:B:1854:PHE:CE1	2.53	0.43
2:B:2122:SER:O	2:B:2126:ARG:HG3	2.18	0.43
2:B:2577:ILE:HG13	2:B:2578:MET:N	2.33	0.43
2:B:2912:THR:HG23	2:B:2914:LYS:HG3	1.99	0.43
2:B:3145:GLN:HA	2:B:3196:ARG:NH2	2.30	0.43
2:B:3604:TYR:O	2:B:3607:GLU:HG3	2.18	0.43
2:B:4063:ASP:O	2:B:4067:LYS:HG3	2.17	0.43
2:B:4202:ARG:HA	2:B:4990:PHE:HZ	1.83	0.43
2:B:4235:VAL:HG11	2:B:5019:TRP:CH2	2.52	0.43
2:B:4555:LEU:HD22	2:B:4562:LEU:HD11	2.01	0.43
2:E:547:VAL:O	2:E:551:LEU:HG	2.18	0.43
2:E:590:LEU:HG	2:E:599:VAL:HG11	2.01	0.43
2:E:680:THR:HG23	2:E:784:SER:HB2	2.00	0.43
2:E:887:ILE:HD13	2:E:959:TYR:HB3	2.00	0.43
2:E:1623:ARG:HD3	2:E:1623:ARG:H	1.83	0.43
2:E:1733:GLU:HG2	2:E:2201:LEU:HA	1.99	0.43
2:E:1808:ARG:HG3	2:E:1854:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2352:VAL:O	2:E:2356:LEU:HG	2.18	0.43
2:E:3223:SER:HB3	2:E:3225:ARG:NH1	2.33	0.43
2:E:3445:TRP:CE2	2:E:3452:LYS:HG2	2.53	0.43
2:E:3514:LEU:HD12	2:E:3606:LEU:HD22	1.99	0.43
2:E:3516:LYS:HG3	2:E:3517:MET:H	1.82	0.43
2:E:3962:PHE:O	2:E:3966:THR:HG23	2.19	0.43
2:E:4202:ARG:HA	2:E:4990:PHE:HZ	1.83	0.43
2:G:82:LEU:HD11	2:G:144:GLU:HB3	2.00	0.43
2:G:1644:GLU:HB3	2:G:1646:ARG:HG2	1.99	0.43
2:G:2964:LEU:O	2:G:2967:MET:HB3	2.18	0.43
2:G:3042:LEU:HA	2:G:3045:LYS:HD2	2.00	0.43
2:G:4027:LEU:HD12	2:G:4028:LEU:N	2.33	0.43
2:G:4046:ASP:O	2:G:4049:VAL:HG22	2.18	0.43
2:G:4688:ILE:HG22	2:G:4689:THR:HG23	2.00	0.43
2:J:682:LEU:HD22	2:J:738:LEU:HD22	2.01	0.43
2:J:984:LEU:HB2	2:J:1055:PRO:HG3	1.99	0.43
2:J:4546:VAL:HG22	2:J:4550:LYS:HE3	2.00	0.43
3:F:3:GLN:HE21	3:F:119:GLN:HE22	1.66	0.43
3:K:3:GLN:HE21	3:K:119:GLN:HE22	1.66	0.43
1:A:13:ARG:HG3	1:A:14:THR:H	1.83	0.43
1:H:66:MET:SD	1:H:103:LEU:HB2	2.58	0.43
1:I:13:ARG:HG3	1:I:14:THR:N	2.33	0.43
2:B:680:THR:HG23	2:B:784:SER:HB2	2.00	0.43
2:B:1154:ASP:O	2:B:1158:ASN:N	2.52	0.43
2:B:1244:GLN:OE1	2:B:1646:ARG:NH1	2.51	0.43
2:B:2454:ARG:O	2:B:2458:ARG:HG3	2.19	0.43
2:B:3098:SER:O	2:B:3101:GLU:HG3	2.19	0.43
2:B:3516:LYS:HG3	2:B:3517:MET:H	1.82	0.43
2:B:3720:TYR:O	2:B:3723:MET:HG3	2.19	0.43
2:E:1420:ASN:HB2	2:E:1570:LYS:HD2	1.99	0.43
2:E:2325:PRO:CG	2:E:2422:ILE:HD13	2.48	0.43
2:E:2555:CYS:SG	2:E:2599:GLN:HG2	2.59	0.43
2:E:2751:LEU:H	2:E:2751:LEU:HD23	1.83	0.43
2:E:3203:VAL:HG23	2:E:3214:ASN:HD22	1.84	0.43
2:E:3895:HIS:H	2:E:3970:GLN:NE2	2.17	0.43
2:E:4049:VAL:HG12	2:E:4163:PHE:CZ	2.54	0.43
2:E:4802:GLY:HA2	2:E:4808:PHE:HB2	2.01	0.43
2:G:590:LEU:HG	2:G:599:VAL:HG11	2.01	0.43
2:G:1978:ALA:HA	2:G:1981:MET:HE3	1.98	0.43
2:G:2299:VAL:HG11	2:G:2356:LEU:HB3	1.99	0.43
2:G:2325:PRO:CG	2:G:2422:ILE:HD13	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4746:ALA:O	2:G:4749:GLU:HG2	2.18	0.43
2:J:268:SER:HB3	2:J:269:TRP:CE3	2.52	0.43
2:J:688:LEU:HD11	2:J:774:ASP:O	2.19	0.43
2:J:1244:GLN:OE1	2:J:1646:ARG:NH1	2.51	0.43
2:J:1443:GLN:HE22	2:J:1556:PRO:HA	1.82	0.43
2:J:1449:TRP:HB2	2:J:1553:PHE:HB2	1.99	0.43
2:J:1647:CYS:O	2:J:1648:MET:SD	2.77	0.43
2:J:2291:GLN:CG	2:J:2293:GLN:HG2	2.48	0.43
2:J:2299:VAL:HG11	2:J:2356:LEU:HB3	1.99	0.43
2:J:2555:CYS:SG	2:J:2599:GLN:HG2	2.59	0.43
2:J:2751:LEU:HD23	2:J:2751:LEU:H	1.83	0.43
2:J:3042:LEU:HA	2:J:3045:LYS:HD2	2.00	0.43
2:J:3070:ILE:HD13	2:J:3073:ARG:NH1	2.33	0.43
2:J:3203:VAL:HG23	2:J:3214:ASN:HD22	1.84	0.43
2:J:3223:SER:HB3	2:J:3225:ARG:NH1	2.33	0.43
3:F:71:ARG:HD2	3:F:71:ARG:C	2.42	0.43
1:I:7:ILE:HB	1:I:71:ARG:O	2.18	0.43
2:B:547:VAL:O	2:B:551:LEU:HG	2.18	0.43
2:B:590:LEU:HG	2:B:599:VAL:HG11	2.01	0.43
2:B:598:LYS:O	2:B:602:VAL:HG23	2.19	0.43
2:B:1443:GLN:HE22	2:B:1556:PRO:HA	1.82	0.43
2:B:1568:LYS:HE2	2:B:1574:PRO:HD3	1.99	0.43
2:B:1714:LEU:O	2:B:1718:ILE:HG12	2.18	0.43
2:B:2291:GLN:CG	2:B:2293:GLN:HG2	2.48	0.43
2:B:2738:ARG:HH22	2:B:2888:ARG:HH21	1.66	0.43
2:B:2768:PHE:HB2	2:B:2857:PRO:HD2	2.00	0.43
2:B:3187:ARG:NH2	2:B:3268:HIS:HB2	2.34	0.43
2:B:3895:HIS:H	2:B:3970:GLN:NE2	2.17	0.43
2:B:4049:VAL:HG12	2:B:4163:PHE:CZ	2.54	0.43
2:E:682:LEU:HD22	2:E:738:LEU:HD22	2.01	0.43
2:E:1647:CYS:O	2:E:1648:MET:SD	2.76	0.43
2:E:1839:VAL:HG21	2:E:1934:SER:HB2	2.00	0.43
2:E:2122:SER:O	2:E:2126:ARG:HG3	2.18	0.43
2:E:2912:THR:HG23	2:E:2914:LYS:HG3	1.99	0.43
2:G:1609:PRO:HB2	2:G:1612:PHE:CZ	2.54	0.43
2:G:2291:GLN:CG	2:G:2293:GLN:HG2	2.48	0.43
2:G:2555:CYS:SG	2:G:2599:GLN:HG2	2.59	0.43
2:G:3428:ASN:HD21	2:G:3430:ASN:HB2	1.83	0.43
2:G:4243:PHE:O	2:G:4247:ILE:HG12	2.18	0.43
2:J:1609:PRO:HB2	2:J:1612:PHE:CZ	2.54	0.43
2:J:2680:TRP:CZ3	2:J:2962:GLN:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3187:ARG:NH2	2:J:3268:HIS:HB2	2.34	0.43
2:J:4184:MET:HG3	2:J:5021:PHE:HA	1.99	0.43
2:J:4584:ASP:HA	2:J:4628:VAL:HA	2.01	0.43
2:J:4746:ALA:O	2:J:4749:GLU:HG2	2.18	0.43
2:B:1087:ARG:HG2	2:B:1154:ASP:HA	2.01	0.43
2:B:1609:PRO:HB2	2:B:1612:PHE:CZ	2.54	0.43
2:B:2680:TRP:CZ3	2:B:2962:GLN:HG3	2.54	0.43
2:E:22:LEU:HB3	2:E:200:TRP:CE3	2.54	0.43
2:E:157:ARG:HH21	2:E:161:GLU:HB3	1.83	0.43
2:E:284:HIS:CE1	2:E:286:THR:HB	2.54	0.43
2:E:598:LYS:O	2:E:602:VAL:HG23	2.19	0.43
2:E:1449:TRP:HB2	2:E:1553:PHE:HB2	1.99	0.43
2:E:1609:PRO:HB2	2:E:1612:PHE:CZ	2.54	0.43
2:E:1714:LEU:O	2:E:1718:ILE:HG12	2.18	0.43
2:E:2920:ARG:O	2:E:2924:GLN:HG2	2.19	0.43
2:E:3098:SER:O	2:E:3101:GLU:HG3	2.19	0.43
2:E:3323:ILE:HA	2:E:3335:MET:HE1	2.00	0.43
2:E:4181:ILE:HG13	2:E:4182:GLU:N	2.34	0.43
2:E:4584:ASP:HA	2:E:4628:VAL:HA	2.01	0.43
2:G:157:ARG:HH21	2:G:161:GLU:HB3	1.83	0.43
2:G:284:HIS:HE1	2:G:286:THR:HB	1.84	0.43
2:G:911:HIS:HB2	2:G:913:LEU:HG	2.01	0.43
2:G:1018:ASN:HB3	2:G:1021:LEU:HD23	1.99	0.43
2:G:1075:PHE:HB2	2:G:1192:CYS:SG	2.59	0.43
2:G:1421:ARG:O	2:G:1570:LYS:NZ	2.52	0.43
2:G:1776:HIS:NE2	2:G:2157:GLU:OE2	2.46	0.43
2:G:3098:SER:O	2:G:3101:GLU:HG3	2.19	0.43
2:J:220:LEU:CD1	2:J:390:LEU:HB3	2.49	0.43
2:J:680:THR:HG23	2:J:784:SER:HB2	2.00	0.43
2:J:1644:GLU:HB3	2:J:1646:ARG:HG2	1.99	0.43
2:J:2101:MET:SD	2:J:2104:ARG:NH2	2.89	0.43
2:J:3145:GLN:HA	2:J:3196:ARG:NH2	2.30	0.43
2:J:3391:GLU:HA	2:J:3394:VAL:HG22	2.00	0.43
2:J:3428:ASN:HD21	2:J:3430:ASN:HB2	1.84	0.43
2:J:4576:ILE:HG21	2:J:4643:LEU:HB2	2.01	0.43
2:J:4928:LEU:O	2:J:4932:ILE:HG12	2.19	0.43
3:C:36:TRP:NE1	3:C:93:TYR:HB3	2.33	0.43
3:C:107:TRP:HE3	3:C:111:ASN:HD21	1.66	0.43
3:F:36:TRP:NE1	3:F:93:TYR:HB3	2.33	0.43
2:B:117:TYR:N	2:B:138:GLN:O	2.52	0.43
2:B:284:HIS:CE1	2:B:286:THR:HB	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:688:LEU:HD11	2:B:774:ASP:O	2.19	0.43
2:B:1423:ASP:OD2	2:B:1426:ILE:HG12	2.18	0.43
2:B:1575:LEU:O	2:B:1579:MET:HG2	2.19	0.43
2:B:2261:SER:HB3	2:B:2273:LEU:HB2	1.99	0.43
2:B:3391:GLU:HA	2:B:3394:VAL:HG22	2.00	0.43
2:B:4552:LEU:HD22	2:B:4663:CYS:SG	2.59	0.43
2:B:4802:GLY:HA2	2:B:4808:PHE:HB2	2.01	0.43
2:B:4928:LEU:O	2:B:4932:ILE:HG12	2.19	0.43
2:E:688:LEU:HD11	2:E:774:ASP:O	2.19	0.43
2:E:1018:ASN:HB3	2:E:1021:LEU:HD23	1.99	0.43
2:E:1249:PRO:HG2	2:E:1252:HIS:HB2	2.01	0.43
2:E:3368:ARG:HA	2:E:3371:LYS:HG2	2.00	0.43
2:E:3962:PHE:CD2	2:E:4023:MET:HE1	2.54	0.43
2:E:4576:ILE:HG21	2:E:4643:LEU:HB2	2.01	0.43
2:G:984:LEU:HB2	2:G:1055:PRO:HG3	1.99	0.43
2:G:1733:GLU:HG2	2:G:2201:LEU:HA	1.99	0.43
2:G:2003:GLN:H	2:G:2003:GLN:CD	2.24	0.43
2:G:2920:ARG:O	2:G:2924:GLN:HG2	2.19	0.43
2:G:3203:VAL:HG23	2:G:3214:ASN:HD22	1.84	0.43
2:G:3533:ILE:HG22	2:G:3537:LYS:HZ3	1.84	0.43
2:G:3962:PHE:O	2:G:3966:THR:HG23	2.19	0.43
2:G:4552:LEU:HD22	2:G:4663:CYS:SG	2.59	0.43
2:J:887:ILE:HD13	2:J:959:TYR:HB3	2.00	0.43
2:J:1249:PRO:HG2	2:J:1252:HIS:HB2	2.01	0.43
2:J:1758:ARG:NH1	2:J:2036:GLN:HG3	2.33	0.43
2:J:2364:PHE:CD1	2:J:2429:LEU:HD21	2.47	0.43
2:J:2790:MET:HE3	2:J:2801:ASP:OD2	2.19	0.43
2:J:3302:PRO:HA	2:J:3303:PRO:HD3	1.93	0.43
2:J:4733:GLY:HA3	2:J:4736:ARG:HH11	1.82	0.43
3:F:36:TRP:CZ3	3:F:78:VAL:HG11	2.54	0.43
3:M:36:TRP:NE1	3:M:93:TYR:HB3	2.33	0.43
1:D:13:ARG:HG3	1:D:14:THR:N	2.33	0.43
2:B:82:LEU:HD11	2:B:144:GLU:HB3	2.00	0.43
2:B:531:ARG:NH2	2:B:562:GLU:OE2	2.50	0.43
2:B:1249:PRO:HG2	2:B:1252:HIS:HB2	2.01	0.43
2:B:1421:ARG:O	2:B:1570:LYS:NZ	2.52	0.43
2:B:2496:PRO:HB3	2:B:2550:LEU:HD23	2.00	0.43
2:B:2555:CYS:SG	2:B:2599:GLN:HG2	2.59	0.43
2:B:3166:TYR:HE2	2:B:3239:MET:HG3	1.84	0.43
2:B:3169:LEU:HA	2:B:3172:ILE:HG22	2.00	0.43
2:B:3592:ILE:HG12	2:B:3595:ARG:NH2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3962:PHE:CD2	2:B:4023:MET:HE1	2.54	0.43
2:B:4027:LEU:HD12	2:B:4028:LEU:N	2.33	0.43
2:E:1154:ASP:O	2:E:1158:ASN:N	2.52	0.43
2:E:2261:SER:HB3	2:E:2273:LEU:HB2	1.99	0.43
2:E:2357:LEU:HD13	2:E:2364:PHE:HZ	1.84	0.43
2:E:2454:ARG:O	2:E:2458:ARG:HG3	2.19	0.43
2:E:2759:ALA:HA	2:E:2809:ILE:HG12	2.00	0.43
2:E:3015:LEU:HD23	2:E:3025:LEU:HD11	2.01	0.43
2:E:3229:ILE:HG23	2:E:3230:LEU:HD22	2.00	0.43
2:E:3713:LYS:NZ	2:E:3717:ASP:OD1	2.52	0.43
2:E:4546:VAL:HG22	2:E:4550:LYS:HE3	2.00	0.43
2:G:22:LEU:HB3	2:G:200:TRP:CE3	2.54	0.43
2:G:215:THR:HB	2:G:271:GLY:O	2.17	0.43
2:G:551:LEU:HD23	2:G:560:ILE:HG13	2.01	0.43
2:G:560:ILE:HA	2:G:563:VAL:HG12	2.00	0.43
2:G:1449:TRP:HB2	2:G:1553:PHE:HB2	1.99	0.43
2:G:2738:ARG:HH22	2:G:2888:ARG:HH21	1.66	0.43
2:G:3962:PHE:CD2	2:G:4023:MET:HE1	2.54	0.43
2:J:911:HIS:HB2	2:J:913:LEU:HG	2.01	0.43
2:J:1420:ASN:HB2	2:J:1570:LYS:HD2	1.99	0.43
2:J:2697:ARG:NH2	2:J:2698:MET:HB3	2.33	0.43
2:J:2920:ARG:O	2:J:2924:GLN:HG2	2.19	0.43
2:J:3098:SER:O	2:J:3101:GLU:HG3	2.19	0.43
2:J:3962:PHE:CD1	2:J:4026:MET:HE3	2.53	0.43
3:K:71:ARG:HD2	3:K:71:ARG:C	2.42	0.43
1:I:3:GLU:HB3	1:I:75:THR:CG2	2.48	0.43
2:B:220:LEU:CD1	2:B:390:LEU:HB3	2.49	0.43
2:B:284:HIS:HE1	2:B:286:THR:HB	1.84	0.43
2:B:835:ARG:HB3	2:B:838:HIS:CE1	2.54	0.43
2:B:1758:ARG:NH1	2:B:2036:GLN:HG3	2.34	0.43
2:B:2691:TYR:HA	2:B:2696:TYR:CE1	2.54	0.43
2:B:2920:ARG:O	2:B:2924:GLN:HG2	2.19	0.43
2:B:3368:ARG:HA	2:B:3371:LYS:HG2	2.00	0.43
2:B:3886:ARG:HD2	2:B:3889:GLN:HE21	1.84	0.43
2:E:1575:LEU:O	2:E:1579:MET:HG2	2.19	0.43
2:E:2251:PHE:CE1	2:E:2254:LEU:HD22	2.54	0.43
2:E:2273:LEU:HG	2:E:2334:PHE:CE2	2.54	0.43
2:E:2691:TYR:HA	2:E:2696:TYR:CE1	2.54	0.43
2:E:2790:MET:HE3	2:E:2801:ASP:OD2	2.19	0.43
2:E:2965:ARG:O	2:E:2969:ILE:HG13	2.18	0.43
2:E:3166:TYR:HE2	2:E:3239:MET:HG3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:4928:LEU:O	2:E:4932:ILE:HG12	2.19	0.43
2:G:598:LYS:O	2:G:602:VAL:HG23	2.19	0.43
2:G:887:ILE:HD13	2:G:959:TYR:HB3	2.00	0.43
2:G:1647:CYS:O	2:G:1648:MET:SD	2.77	0.43
2:G:2454:ARG:O	2:G:2458:ARG:HG3	2.19	0.43
2:G:2680:TRP:CZ3	2:G:2962:GLN:HG3	2.54	0.43
2:G:2691:TYR:HA	2:G:2696:TYR:CE1	2.54	0.43
2:G:3886:ARG:HD2	2:G:3889:GLN:HE21	1.84	0.43
2:G:4576:ILE:HG21	2:G:4643:LEU:HB2	2.01	0.43
2:G:4802:GLY:HA2	2:G:4808:PHE:HB2	2.01	0.43
2:G:4928:LEU:O	2:G:4932:ILE:HG12	2.19	0.43
2:J:590:LEU:HG	2:J:599:VAL:HG11	2.01	0.43
2:J:1568:LYS:HE2	2:J:1574:PRO:HD3	1.99	0.43
2:J:2768:PHE:HB2	2:J:2857:PRO:HD2	2.00	0.43
2:J:3323:ILE:HA	2:J:3335:MET:HE1	2.00	0.43
2:J:3368:ARG:HA	2:J:3371:LYS:HG2	2.00	0.43
2:J:3445:TRP:CE2	2:J:3452:LYS:HG2	2.53	0.43
2:J:3592:ILE:HG12	2:J:3595:ARG:NH2	2.34	0.43
2:J:4181:ILE:HG13	2:J:4182:GLU:N	2.34	0.43
2:J:4225:GLY:O	2:J:4230:LYS:NZ	2.52	0.43
2:J:4552:LEU:HD22	2:J:4663:CYS:SG	2.59	0.43
3:F:51:ILE:HG23	3:F:71:ARG:HE	1.82	0.43
2:B:1161:ILE:HG13	2:B:1177:THR:HG22	2.00	0.43
2:B:1207:ASP:OD1	2:B:1210:SER:HB3	2.19	0.43
2:B:2477:PRO:HG2	2:B:2536:LEU:HD11	2.00	0.43
2:B:4888:TYR:OH	2:G:4913:ARG:NH2	2.52	0.43
2:E:220:LEU:CD1	2:E:390:LEU:HB3	2.49	0.43
2:E:360:ALA:HA	2:E:377:ILE:CD1	2.48	0.43
2:E:2595:LEU:CB	2:E:2600:ARG:HG3	2.48	0.43
2:E:2754:PHE:HB2	2:E:2935:TYR:OH	2.19	0.43
2:E:3144:PHE:HA	2:E:3147:ILE:HG12	2.00	0.43
2:E:3449:HIS:HA	2:E:3452:LYS:HE2	2.01	0.43
2:E:3720:TYR:O	2:E:3723:MET:HG3	2.19	0.43
2:E:3886:ARG:HD2	2:E:3889:GLN:HE21	1.84	0.43
2:E:4552:LEU:HD22	2:E:4663:CYS:SG	2.59	0.43
2:G:682:LEU:HD22	2:G:738:LEU:HD22	2.01	0.43
2:G:688:LEU:HD11	2:G:774:ASP:O	2.19	0.43
2:G:835:ARG:HB3	2:G:838:HIS:CE1	2.54	0.43
2:G:1249:PRO:HG2	2:G:1252:HIS:HB2	2.01	0.43
2:G:1758:ARG:NH1	2:G:2036:GLN:HG3	2.33	0.43
2:G:1808:ARG:HG3	2:G:1854:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3169:LEU:HA	2:G:3172:ILE:HG22	2.00	0.43
2:G:3375:GLU:O	2:G:3379:LEU:HD23	2.18	0.43
2:G:3866:ILE:HG23	2:G:3868:ARG:HG3	2.01	0.43
2:G:4150:LEU:O	2:G:4154:VAL:HG12	2.19	0.43
2:J:22:LEU:HB3	2:J:200:TRP:CE3	2.54	0.43
2:J:42:PHE:CZ	2:J:403:MET:HE1	2.54	0.43
2:J:181:HIS:ND1	2:J:198:THR:OG1	2.50	0.43
2:J:1000:ARG:HH12	3:K:114:TYR:HA	1.83	0.43
2:J:2212:VAL:HG22	2:J:2256:TYR:CZ	2.54	0.43
2:J:2336:ARG:HB2	2:J:2435:ARG:CD	2.45	0.43
2:J:3015:LEU:HD23	2:J:3025:LEU:HD11	2.01	0.43
2:J:3144:PHE:HA	2:J:3147:ILE:HG12	2.00	0.43
2:J:3362:ILE:HD12	2:J:3362:ILE:HA	1.91	0.43
2:J:4802:GLY:HA2	2:J:4808:PHE:HB2	2.01	0.43
3:K:36:TRP:CZ3	3:K:78:VAL:HG11	2.54	0.43
3:K:98:ASP:N	3:K:98:ASP:OD1	2.49	0.43
3:M:71:ARG:HD2	3:M:71:ARG:C	2.43	0.43
1:D:55:VAL:HG23	2:E:1783:VAL:HB	2.00	0.42
2:B:21:VAL:HB	2:B:205:ILE:HD11	2.00	0.42
2:B:887:ILE:HD13	2:B:959:TYR:HB3	2.00	0.42
2:B:3069:HIS:HD2	2:B:3142:THR:HB	1.84	0.42
2:B:3203:VAL:HG23	2:B:3214:ASN:HD22	1.84	0.42
2:B:3445:TRP:CE2	2:B:3452:LYS:HG2	2.53	0.42
2:B:4225:GLY:O	2:B:4230:LYS:NZ	2.52	0.42
2:B:4243:PHE:O	2:B:4247:ILE:HG12	2.18	0.42
2:E:551:LEU:HD23	2:E:560:ILE:HG13	2.01	0.42
2:E:790:ARG:HA	2:E:1626:TRP:O	2.19	0.42
2:E:1421:ARG:O	2:E:1570:LYS:NZ	2.52	0.42
2:E:2212:VAL:HG22	2:E:2256:TYR:CZ	2.54	0.42
2:E:2496:PRO:HB3	2:E:2550:LEU:HD23	2.00	0.42
2:E:3428:ASN:HD21	2:E:3430:ASN:HB2	1.83	0.42
2:E:4661:TYR:HA	2:E:4664:LEU:HD23	2.01	0.42
2:E:5012:LYS:O	2:E:5016:GLU:HG2	2.19	0.42
2:G:21:VAL:HB	2:G:205:ILE:HD11	2.00	0.42
2:G:220:LEU:CD1	2:G:390:LEU:HB3	2.49	0.42
2:G:284:HIS:CE1	2:G:286:THR:HB	2.54	0.42
2:G:1207:ASP:OD1	2:G:1210:SER:HB3	2.19	0.42
2:G:1439:VAL:HB	2:G:1514:LEU:HB2	2.01	0.42
2:G:1575:LEU:O	2:G:1579:MET:HG2	2.19	0.42
2:G:2189:LYS:NZ	2:G:2193:GLN:OE1	2.33	0.42
2:G:2482:ASP:N	2:G:2482:ASP:OD1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3166:TYR:HE2	2:G:3239:MET:HG3	1.84	0.42
2:G:3187:ARG:NH2	2:G:3268:HIS:HB2	2.34	0.42
2:G:3895:HIS:H	2:G:3970:GLN:NE2	2.16	0.42
2:G:3921:ASP:O	2:G:3925:ARG:HG3	2.18	0.42
2:J:214:VAL:HA	2:J:341:TYR:CD1	2.53	0.42
2:J:551:LEU:HD23	2:J:560:ILE:HG13	2.01	0.42
2:J:2173:GLN:O	2:J:2177:LEU:HD23	2.19	0.42
2:J:2577:ILE:HG13	2:J:2578:MET:N	2.33	0.42
2:J:2621:HIS:HA	2:J:2624:ARG:HD3	2.02	0.42
2:J:3375:GLU:O	2:J:3379:LEU:HD23	2.18	0.42
2:J:3713:LYS:NZ	2:J:3717:ASP:OD1	2.52	0.42
2:J:3886:ARG:HD2	2:J:3889:GLN:HE21	1.84	0.42
2:J:4150:LEU:O	2:J:4154:VAL:HG12	2.19	0.42
2:B:22:LEU:HB3	2:B:200:TRP:CE3	2.54	0.42
2:B:790:ARG:HA	2:B:1626:TRP:O	2.19	0.42
2:B:1776:HIS:NE2	2:B:2157:GLU:OE2	2.46	0.42
2:B:2790:MET:HE3	2:B:2801:ASP:OD2	2.19	0.42
2:B:3962:PHE:CD1	2:B:4026:MET:HE3	2.55	0.42
2:B:3962:PHE:O	2:B:3966:THR:HG23	2.18	0.42
2:B:4546:VAL:HG22	2:B:4550:LYS:HE3	2.00	0.42
2:E:667:MET:HE3	2:E:790:ARG:HE	1.84	0.42
2:E:1207:ASP:OD1	2:E:1210:SER:HB3	2.19	0.42
2:E:2101:MET:SD	2:E:2104:ARG:NH2	2.89	0.42
2:E:3375:GLU:O	2:E:3379:LEU:HD23	2.18	0.42
2:E:3390:GLY:O	2:E:3394:VAL:HG13	2.20	0.42
2:E:4068:LEU:O	2:E:4072:VAL:HG23	2.20	0.42
2:E:4225:GLY:O	2:E:4230:LYS:NZ	2.52	0.42
2:G:480:GLU:OE2	2:G:481:GLU:HG2	2.19	0.42
2:G:1623:ARG:H	2:G:1623:ARG:HD3	1.83	0.42
2:G:2621:HIS:HA	2:G:2624:ARG:HD3	2.02	0.42
2:G:2954:ARG:NH1	2:G:3030:HIS:O	2.52	0.42
2:G:3341:PHE:O	2:G:3344:PRO:HD2	2.19	0.42
2:G:3391:GLU:HA	2:G:3394:VAL:HG22	2.00	0.42
2:G:3713:LYS:NZ	2:G:3717:ASP:OD1	2.52	0.42
2:G:4147:LEU:HD23	2:G:4171:LEU:CD2	2.50	0.42
2:J:284:HIS:CE1	2:J:286:THR:HB	2.54	0.42
2:J:365:LYS:O	2:J:369:LEU:HG	2.19	0.42
2:J:598:LYS:O	2:J:602:VAL:HG23	2.19	0.42
2:J:1808:ARG:HG3	2:J:1854:PHE:CE1	2.53	0.42
2:J:2691:TYR:HA	2:J:2696:TYR:CE1	2.54	0.42
2:J:3449:HIS:HA	2:J:3452:LYS:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3720:TYR:O	2:J:3723:MET:HG3	2.19	0.42
2:J:4147:LEU:HD23	2:J:4171:LEU:CD2	2.49	0.42
2:J:4243:PHE:O	2:J:4247:ILE:HG12	2.18	0.42
2:B:157:ARG:HH21	2:B:161:GLU:HB3	1.83	0.42
2:B:972:LEU:HB2	2:B:1044:ARG:HH21	1.85	0.42
2:B:1730:MET:C	2:B:1730:MET:SD	3.02	0.42
2:B:1866:ILE:HD12	2:B:1939:MET:SD	2.59	0.42
2:B:2751:LEU:HD23	2:B:2751:LEU:H	1.83	0.42
2:B:3054:VAL:HG21	2:B:3131:TYR:HB2	2.02	0.42
2:B:3341:PHE:O	2:B:3344:PRO:HD2	2.19	0.42
2:B:4068:LEU:O	2:B:4072:VAL:HG23	2.20	0.42
2:E:365:LYS:O	2:E:369:LEU:HG	2.19	0.42
2:E:1087:ARG:HG2	2:E:1154:ASP:HA	2.01	0.42
2:E:1158:ASN:HB3	2:E:1182:ILE:N	2.28	0.42
2:E:1730:MET:SD	2:E:1730:MET:C	3.02	0.42
2:E:2697:ARG:NH2	2:E:2698:MET:HB3	2.33	0.42
2:E:2996:LYS:HD3	2:E:2996:LYS:HA	1.84	0.42
2:E:3187:ARG:NH2	2:E:3268:HIS:HB2	2.34	0.42
2:E:3252:ASP:O	2:E:3256:LEU:HG	2.19	0.42
2:E:3341:PHE:O	2:E:3344:PRO:HD2	2.19	0.42
2:E:3379:LEU:HD12	2:E:3387:ALA:HA	2.01	0.42
2:E:3713:LYS:HZ1	2:E:3716:LEU:HD12	1.84	0.42
2:E:4147:LEU:HD23	2:E:4171:LEU:CD2	2.49	0.42
2:G:111:HIS:HE1	2:G:113:HIS:HB3	1.83	0.42
2:G:1244:GLN:OE1	2:G:1646:ARG:NH1	2.51	0.42
2:G:2212:VAL:HG22	2:G:2256:TYR:CZ	2.54	0.42
2:G:2775:TRP:CE2	2:G:2786:LYS:HE2	2.54	0.42
2:G:4049:VAL:HG12	2:G:4163:PHE:CZ	2.54	0.42
2:G:4181:ILE:HG13	2:G:4182:GLU:N	2.34	0.42
2:G:4555:LEU:HD22	2:G:4562:LEU:HD11	2.00	0.42
2:J:21:VAL:HB	2:J:205:ILE:HD11	2.00	0.42
2:J:82:LEU:HD11	2:J:144:GLU:HB3	2.00	0.42
2:J:1083:VAL:HG23	2:J:1155:LEU:HD11	2.01	0.42
2:J:1087:ARG:HG2	2:J:1154:ASP:HA	2.01	0.42
2:J:1293:LEU:HD11	2:J:1594:ARG:HG2	2.01	0.42
2:J:1623:ARG:HD3	2:J:1623:ARG:H	1.83	0.42
2:J:3886:ARG:HA	2:J:3889:GLN:HE21	1.84	0.42
2:J:4049:VAL:HG12	2:J:4163:PHE:CZ	2.54	0.42
1:D:7:ILE:HB	1:D:71:ARG:O	2.18	0.42
2:B:911:HIS:HB2	2:B:913:LEU:HG	2.01	0.42
2:B:1075:PHE:HB2	2:B:1192:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1839:VAL:HG21	2:B:1934:SER:HB2	2.00	0.42
2:B:2694:GLU:OE2	2:B:2697:ARG:NH2	2.52	0.42
2:B:2754:PHE:HB2	2:B:2935:TYR:OH	2.19	0.42
2:B:2954:ARG:NH1	2:B:3030:HIS:O	2.52	0.42
2:B:3428:ASN:HD21	2:B:3430:ASN:HB2	1.84	0.42
2:B:3754:GLU:O	2:B:3758:MET:HG2	2.19	0.42
2:B:3886:ARG:HA	2:B:3889:GLN:HE21	1.84	0.42
2:B:4046:ASP:O	2:B:4049:VAL:HG22	2.18	0.42
2:E:480:GLU:OE2	2:E:481:GLU:HG2	2.19	0.42
2:E:911:HIS:HB2	2:E:913:LEU:HG	2.01	0.42
2:E:1161:ILE:HG13	2:E:1177:THR:HG22	2.00	0.42
2:E:2637:ALA:C	2:E:2640:PRO:HD2	2.45	0.42
2:E:2694:GLU:OE2	2:E:2697:ARG:NH2	2.52	0.42
2:E:2775:TRP:CE2	2:E:2786:LYS:HE2	2.54	0.42
2:E:2954:ARG:NH1	2:E:3030:HIS:O	2.52	0.42
2:E:3023:LYS:HZ3	2:E:3025:LEU:HB2	1.84	0.42
2:E:3069:HIS:HD2	2:E:3142:THR:HB	1.84	0.42
2:E:4555:LEU:HD22	2:E:4562:LEU:HD11	2.00	0.42
2:G:42:PHE:CZ	2:G:403:MET:HE1	2.54	0.42
2:G:358:THR:O	2:G:377:ILE:HG12	2.19	0.42
2:G:667:MET:HE3	2:G:790:ARG:HE	1.84	0.42
2:G:1083:VAL:HG23	2:G:1155:LEU:HD11	2.01	0.42
2:G:1293:LEU:HD11	2:G:1594:ARG:HG2	2.01	0.42
2:G:2173:GLN:O	2:G:2177:LEU:HD23	2.19	0.42
2:G:2251:PHE:CE1	2:G:2254:LEU:HD22	2.54	0.42
2:G:2790:MET:HE3	2:G:2801:ASP:OD2	2.19	0.42
2:G:3069:HIS:HD2	2:G:3142:THR:HB	1.84	0.42
2:G:3144:PHE:HA	2:G:3147:ILE:HG12	2.00	0.42
2:G:3449:HIS:HA	2:G:3452:LYS:HE2	2.02	0.42
2:G:3720:TYR:O	2:G:3723:MET:HG3	2.19	0.42
2:G:4682:GLU:HA	2:G:4724:VAL:HG22	2.02	0.42
2:J:531:ARG:NH2	2:J:562:GLU:OE2	2.50	0.42
2:J:849:THR:O	2:J:852:VAL:HG22	2.20	0.42
2:J:1727:ARG:NH1	2:J:1851:MET:O	2.52	0.42
2:J:1816:GLY:HA2	2:J:1865:MET:CE	2.50	0.42
2:J:2137:ALA:O	2:J:2140:ARG:HG2	2.20	0.42
2:J:2273:LEU:HG	2:J:2334:PHE:CE2	2.54	0.42
2:J:2694:GLU:OE2	2:J:2697:ARG:NH2	2.52	0.42
2:J:2759:ALA:HA	2:J:2809:ILE:HG12	2.00	0.42
2:J:2954:ARG:NH1	2:J:3030:HIS:O	2.52	0.42
2:J:3195:ALA:HB2	2:J:3275:PRO:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3284:TRP:HB3	2:J:3305:THR:HG21	2.02	0.42
2:J:3962:PHE:CD2	2:J:4023:MET:HE1	2.54	0.42
2:J:4068:LEU:O	2:J:4072:VAL:HG23	2.20	0.42
2:J:4147:LEU:HD22	2:J:4167:ALA:HB3	2.02	0.42
2:B:360:ALA:HA	2:B:377:ILE:CD1	2.49	0.42
2:B:480:GLU:OE2	2:B:481:GLU:HG2	2.19	0.42
2:B:2126:ARG:NH2	2:B:2133:GLU:OE2	2.48	0.42
2:B:4147:LEU:HD22	2:B:4167:ALA:HB3	2.02	0.42
2:B:4994:TYR:O	2:B:4998:LYS:HG2	2.20	0.42
2:E:181:HIS:ND1	2:E:198:THR:OG1	2.50	0.42
2:E:849:THR:O	2:E:852:VAL:HG22	2.20	0.42
2:E:1727:ARG:NH1	2:E:1851:MET:O	2.52	0.42
2:E:2173:GLN:O	2:E:2177:LEU:HD23	2.19	0.42
2:E:3885:PHE:O	2:E:3889:GLN:HG2	2.20	0.42
2:E:3962:PHE:CD1	2:E:4026:MET:HE3	2.55	0.42
2:G:361:ALA:O	2:G:362:PRO:C	2.60	0.42
2:G:849:THR:O	2:G:852:VAL:HG22	2.20	0.42
2:G:1128:ARG:HH21	2:G:1132:TRP:HZ2	1.67	0.42
2:G:1661:ARG:O	2:G:1665:HIS:HD2	2.00	0.42
2:G:1670:TYR:HA	2:G:1673:VAL:HG22	2.01	0.42
2:G:1727:ARG:NH1	2:G:1851:MET:O	2.53	0.42
2:G:2137:ALA:O	2:G:2140:ARG:HG2	2.20	0.42
2:G:2357:LEU:HD13	2:G:2364:PHE:HZ	1.84	0.42
2:G:2374:SER:OG	2:G:2375:GLY:N	2.53	0.42
2:G:2637:ALA:C	2:G:2640:PRO:HD2	2.45	0.42
2:G:3445:TRP:CE2	2:G:3452:LYS:HG2	2.53	0.42
2:G:3553:LEU:HD23	2:G:3593:VAL:HA	2.01	0.42
2:G:4147:LEU:HD22	2:G:4167:ALA:HB3	2.02	0.42
2:G:4225:GLY:O	2:G:4230:LYS:NZ	2.52	0.42
2:J:284:HIS:HE1	2:J:286:THR:HB	1.84	0.42
2:J:972:LEU:HB2	2:J:1044:ARG:HH21	1.85	0.42
2:J:1075:PHE:HB2	2:J:1192:CYS:SG	2.59	0.42
2:J:1154:ASP:O	2:J:1158:ASN:N	2.52	0.42
2:J:1207:ASP:OD1	2:J:1210:SER:HB3	2.19	0.42
2:J:1421:ARG:O	2:J:1570:LYS:NZ	2.52	0.42
2:J:2454:ARG:O	2:J:2458:ARG:HG3	2.19	0.42
2:J:4181:ILE:HG13	2:J:4182:GLU:H	1.84	0.42
3:F:14:ALA:HA	3:F:85:LEU:HB2	2.02	0.42
2:B:551:LEU:HD23	2:B:560:ILE:HG13	2.01	0.42
2:B:682:LEU:HD22	2:B:738:LEU:HD22	2.01	0.42
2:B:1854:PHE:HD1	2:B:1858:ASP:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2637:ALA:C	2:B:2640:PRO:HD2	2.45	0.42
2:B:3284:TRP:HB3	2:B:3305:THR:HG21	2.02	0.42
2:B:3449:HIS:HA	2:B:3452:LYS:HE2	2.01	0.42
2:B:3713:LYS:NZ	2:B:3717:ASP:OD1	2.52	0.42
2:B:4147:LEU:HD23	2:B:4171:LEU:CD2	2.49	0.42
2:B:5012:LYS:O	2:B:5016:GLU:HG2	2.19	0.42
2:E:103:TYR:CZ	2:E:163:VAL:HG12	2.55	0.42
2:E:341:TYR:HE2	2:E:392:ARG:HB2	1.85	0.42
2:E:472:ARG:NH1	2:E:475:GLN:OE1	2.53	0.42
2:E:1075:PHE:HB2	2:E:1192:CYS:SG	2.59	0.42
2:E:1816:GLY:HA2	2:E:1865:MET:CE	2.50	0.42
2:E:2477:PRO:HG2	2:E:2536:LEU:HD11	2.00	0.42
2:E:2878:LEU:HG	2:E:2882:TYR:CZ	2.54	0.42
2:E:3592:ILE:HG12	2:E:3595:ARG:NH2	2.34	0.42
2:E:4204:GLN:NE2	2:E:4248:ALA:HB3	2.35	0.42
2:E:4682:GLU:HA	2:E:4724:VAL:HG22	2.02	0.42
2:G:790:ARG:HA	2:G:1626:TRP:O	2.19	0.42
2:G:972:LEU:HB2	2:G:1044:ARG:HH21	1.85	0.42
2:G:1066:GLN:HA	2:G:1069:TRP:CH2	2.55	0.42
2:G:2754:PHE:HB2	2:G:2935:TYR:OH	2.19	0.42
2:G:2878:LEU:HG	2:G:2882:TYR:CZ	2.54	0.42
2:G:3023:LYS:HZ3	2:G:3025:LEU:HB2	1.84	0.42
2:G:3054:VAL:HG21	2:G:3131:TYR:HB2	2.02	0.42
2:G:3368:ARG:HA	2:G:3371:LYS:HG2	2.00	0.42
2:G:3962:PHE:HA	2:G:3965:LEU:HD12	2.01	0.42
2:G:4546:VAL:HG22	2:G:4550:LYS:HE3	2.00	0.42
2:J:157:ARG:HH21	2:J:161:GLU:HB3	1.83	0.42
2:J:835:ARG:HB3	2:J:838:HIS:CE1	2.54	0.42
2:J:1439:VAL:HB	2:J:1514:LEU:HB2	2.01	0.42
2:J:1575:LEU:O	2:J:1579:MET:HG2	2.19	0.42
2:J:2747:ILE:HD13	2:J:2814:LYS:HA	2.02	0.42
2:J:2754:PHE:HB2	2:J:2935:TYR:OH	2.19	0.42
2:J:2775:TRP:CE2	2:J:2786:LYS:HE2	2.54	0.42
2:J:2965:ARG:O	2:J:2969:ILE:HG13	2.18	0.42
2:J:3054:VAL:HG21	2:J:3131:TYR:HB2	2.02	0.42
2:J:3252:ASP:O	2:J:3256:LEU:HG	2.19	0.42
2:J:4555:LEU:HD22	2:J:4562:LEU:HD11	2.00	0.42
2:J:4682:GLU:HA	2:J:4724:VAL:HG22	2.02	0.42
1:D:31:GLN:NE2	2:E:1299:GLN:HB3	2.34	0.42
2:B:42:PHE:CZ	2:B:403:MET:HE1	2.54	0.42
2:B:365:LYS:O	2:B:369:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:515:TRP:CZ3	2:B:555:GLU:HG2	2.55	0.42
2:B:1157:GLU:O	2:B:1159:THR:HG23	2.20	0.42
2:B:1771:LEU:HD12	2:B:2144:ILE:HD11	2.02	0.42
2:B:2374:SER:OG	2:B:2375:GLY:N	2.53	0.42
2:B:2431:ASP:O	2:B:2435:ARG:HG2	2.20	0.42
2:B:2747:ILE:HD13	2:B:2814:LYS:HA	2.02	0.42
2:B:2815:ALA:HB1	2:B:2881:ASN:ND2	2.35	0.42
2:B:3015:LEU:HD23	2:B:3025:LEU:HD11	2.01	0.42
2:B:3144:PHE:HA	2:B:3147:ILE:HG12	2.00	0.42
2:B:3187:ARG:NH1	2:B:3267:PRO:HB2	2.35	0.42
2:B:3866:ILE:HG23	2:B:3868:ARG:HG3	2.00	0.42
2:B:3885:PHE:O	2:B:3889:GLN:HG2	2.20	0.42
2:B:4154:VAL:O	2:B:4154:VAL:HG13	2.20	0.42
2:B:4181:ILE:HG13	2:B:4182:GLU:N	2.34	0.42
2:B:4682:GLU:HA	2:B:4724:VAL:HG22	2.02	0.42
2:E:972:LEU:HB2	2:E:1044:ARG:HH21	1.85	0.42
2:E:1293:LEU:HD11	2:E:1594:ARG:HG2	2.01	0.42
2:E:1866:ILE:HD12	2:E:1939:MET:SD	2.59	0.42
2:E:2137:ALA:O	2:E:2140:ARG:HG2	2.20	0.42
2:E:2815:ALA:HB1	2:E:2881:ASN:ND2	2.35	0.42
2:E:3886:ARG:HA	2:E:3889:GLN:HE21	1.84	0.42
2:G:246:TYR:HD2	2:G:373:LYS:HE3	1.78	0.42
2:G:487:VAL:O	2:G:491:ILE:HG13	2.20	0.42
2:G:595:ARG:HH22	2:G:1641:ILE:HG23	1.85	0.42
2:G:1154:ASP:O	2:G:1158:ASN:N	2.52	0.42
2:G:3195:ALA:HB2	2:G:3275:PRO:HB3	2.02	0.42
2:G:4584:ASP:HA	2:G:4628:VAL:HA	2.01	0.42
2:G:4994:TYR:O	2:G:4998:LYS:HG2	2.20	0.42
2:J:299:LEU:HD11	2:J:376:ALA:HB3	2.01	0.42
2:J:487:VAL:O	2:J:491:ILE:HG13	2.20	0.42
2:J:790:ARG:HA	2:J:1626:TRP:O	2.19	0.42
2:J:1854:PHE:HD1	2:J:1858:ASP:HB3	1.85	0.42
2:J:2263:ILE:O	2:J:2267:MET:HG2	2.20	0.42
2:J:3144:PHE:CE2	2:J:3197:LEU:HB3	2.54	0.42
2:J:3390:GLY:O	2:J:3394:VAL:HG13	2.20	0.42
2:J:4071:ILE:HD13	2:J:4103:PHE:CE2	2.50	0.42
2:J:4661:TYR:HA	2:J:4664:LEU:HD23	2.01	0.42
3:C:105:ASN:ND2	3:C:108:GLY:O	2.52	0.42
2:B:2251:PHE:CE1	2:B:2254:LEU:HD22	2.54	0.42
2:B:2273:LEU:HG	2:B:2334:PHE:CE2	2.54	0.42
2:E:583:ILE:O	2:E:587:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1000:ARG:HH12	3:F:114:TYR:HA	1.84	0.42
2:E:2431:ASP:O	2:E:2435:ARG:HG2	2.20	0.42
2:E:2747:ILE:HD13	2:E:2814:LYS:HA	2.02	0.42
2:E:3713:LYS:NZ	2:E:3716:LEU:HD12	2.35	0.42
2:G:117:TYR:N	2:G:138:GLN:O	2.51	0.42
2:G:515:TRP:CZ3	2:G:555:GLU:HG2	2.55	0.42
2:G:548:VAL:HA	2:G:551:LEU:HG	2.02	0.42
2:G:1100:MET:CE	2:G:1192:CYS:HB2	2.50	0.42
2:G:1432:THR:OG1	2:G:1519:LEU:HG	2.20	0.42
2:G:1496:TRP:CZ2	2:G:1498:GLY:HA3	2.55	0.42
2:G:1771:LEU:HD12	2:G:2144:ILE:HD11	2.02	0.42
2:G:2977:LEU:HA	2:G:2980:VAL:HG22	2.02	0.42
2:G:3284:TRP:HB3	2:G:3305:THR:HG21	2.02	0.42
2:G:3754:GLU:O	2:G:3758:MET:HG2	2.19	0.42
2:G:3885:PHE:O	2:G:3889:GLN:HG2	2.20	0.42
2:G:4068:LEU:O	2:G:4072:VAL:HG23	2.20	0.42
2:G:4197:ILE:HG21	2:G:4202:ARG:HH11	1.85	0.42
2:J:111:HIS:HE1	2:J:113:HIS:HB3	1.83	0.42
2:J:647:ASN:ND2	2:J:822:ARG:HG2	2.35	0.42
2:J:1730:MET:C	2:J:1730:MET:SD	3.02	0.42
2:J:2878:LEU:HG	2:J:2882:TYR:CZ	2.54	0.42
2:J:3166:TYR:HE2	2:J:3239:MET:HG3	1.84	0.42
2:J:3341:PHE:O	2:J:3344:PRO:HD2	2.19	0.42
2:J:3553:LEU:HD23	2:J:3593:VAL:HA	2.01	0.42
2:J:3713:LYS:NZ	2:J:3716:LEU:HD12	2.35	0.42
3:C:14:ALA:HA	3:C:85:LEU:HB2	2.02	0.42
3:C:36:TRP:CZ3	3:C:78:VAL:HG11	2.54	0.42
3:M:36:TRP:CZ3	3:M:78:VAL:HG11	2.54	0.42
2:B:583:ILE:O	2:B:587:ILE:HG13	2.20	0.42
2:B:2110:TYR:HB2	2:B:3695:PRO:HD2	2.02	0.42
2:B:2212:VAL:HG22	2:B:2256:TYR:CZ	2.54	0.42
2:B:2445:ALA:HB1	2:B:2447:LYS:HE2	2.02	0.42
2:B:2621:HIS:HA	2:B:2624:ARG:HD3	2.02	0.42
2:B:2775:TRP:CE2	2:B:2786:LYS:HE2	2.54	0.42
2:B:2977:LEU:HA	2:B:2980:VAL:HG22	2.02	0.42
2:B:3144:PHE:CE2	2:B:3197:LEU:HB3	2.54	0.42
2:E:835:ARG:HB3	2:E:838:HIS:CE1	2.54	0.42
2:E:1435:TYR:HE1	2:E:1452:TRP:CZ2	2.38	0.42
2:E:1698:LEU:HG	2:E:1712:TYR:CE1	2.55	0.42
2:E:1733:GLU:OE2	2:E:2163:ARG:NH2	2.53	0.42
2:E:1854:PHE:HD1	2:E:1858:ASP:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1965:TYR:O	2:E:1969:LEU:HD23	2.20	0.42
2:E:2700:MET:CE	2:E:3004:PRO:HB2	2.50	0.42
2:E:2737:PRO:HB2	2:E:2884:ASN:O	2.20	0.42
2:E:4150:LEU:O	2:E:4154:VAL:HG12	2.19	0.42
2:G:103:TYR:CZ	2:G:163:VAL:HG12	2.55	0.42
2:G:210:GLU:HG2	2:G:273:HIS:CD2	2.55	0.42
2:G:664:PHE:HA	2:G:800:PHE:HE1	1.85	0.42
2:G:1854:PHE:HD1	2:G:1858:ASP:HB3	1.85	0.42
2:G:1866:ILE:HD12	2:G:1939:MET:SD	2.59	0.42
2:G:2747:ILE:HD13	2:G:2814:LYS:HA	2.02	0.42
2:G:2911:LEU:HD13	2:G:2915:GLU:HG3	2.02	0.42
2:G:3015:LEU:HD23	2:G:3025:LEU:HD11	2.01	0.42
2:G:3510:ILE:HG21	2:G:3606:LEU:HD22	2.02	0.42
2:G:3886:ARG:HA	2:G:3889:GLN:HE21	1.84	0.42
2:G:3892:CYS:O	2:G:3970:GLN:NE2	2.53	0.42
2:G:3962:PHE:CD1	2:G:4026:MET:HE3	2.55	0.42
2:G:4071:ILE:HD13	2:G:4103:PHE:CE2	2.50	0.42
2:G:4154:VAL:O	2:G:4154:VAL:HG13	2.20	0.42
2:G:4181:ILE:HG13	2:G:4182:GLU:H	1.84	0.42
2:J:372:LEU:O	2:J:374:LYS:HG3	2.20	0.42
2:J:548:VAL:HA	2:J:551:LEU:HG	2.02	0.42
2:J:1866:ILE:HD12	2:J:1939:MET:SD	2.59	0.42
2:J:2815:ALA:HB1	2:J:2881:ASN:ND2	2.35	0.42
2:J:2911:LEU:HD13	2:J:2915:GLU:HG3	2.01	0.42
2:J:3069:HIS:HD2	2:J:3142:THR:HB	1.84	0.42
2:J:3379:LEU:HD12	2:J:3387:ALA:HA	2.02	0.42
2:J:3866:ILE:HG23	2:J:3868:ARG:HG3	2.00	0.42
2:J:4027:LEU:HD12	2:J:4028:LEU:N	2.34	0.42
2:B:424:LYS:HE2	2:B:424:LYS:HB2	1.90	0.42
2:B:548:VAL:HA	2:B:551:LEU:HG	2.02	0.42
2:B:1147:ASP:HB3	2:B:1164:LEU:HD11	2.02	0.42
2:B:1230:MET:HE3	2:B:1827:ARG:NH2	2.35	0.42
2:B:1432:THR:OG1	2:B:1519:LEU:HG	2.20	0.42
2:B:1727:ARG:NH1	2:B:1851:MET:O	2.52	0.42
2:B:3023:LYS:HZ3	2:B:3025:LEU:HB2	1.85	0.42
2:B:3195:ALA:HB2	2:B:3275:PRO:HB3	2.02	0.42
2:B:3252:ASP:O	2:B:3256:LEU:HG	2.19	0.42
2:B:4851:TYR:HA	2:B:4854:VAL:HG22	2.01	0.42
2:E:42:PHE:CZ	2:E:403:MET:HE1	2.54	0.42
2:E:223:PHE:CD2	2:E:230:CYS:HB3	2.55	0.42
2:E:647:ASN:ND2	2:E:822:ARG:HG2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2223:ILE:HD12	2:E:2223:ILE:HA	1.94	0.42
2:E:2230:THR:O	2:E:2234:ARG:HG3	2.20	0.42
2:E:2263:ILE:O	2:E:2267:MET:HG2	2.20	0.42
2:E:2977:LEU:HA	2:E:2980:VAL:HG22	2.02	0.42
2:E:3054:VAL:HG21	2:E:3131:TYR:HB2	2.02	0.42
2:E:3195:ALA:HB2	2:E:3275:PRO:HB3	2.02	0.42
2:E:3284:TRP:HB3	2:E:3305:THR:HG21	2.02	0.42
2:E:3510:ILE:HG21	2:E:3606:LEU:HD22	2.02	0.42
2:E:3579:LEU:HD23	2:E:3582:ARG:HA	2.02	0.42
2:G:1071:ARG:HA	2:G:1071:ARG:HD3	1.83	0.42
2:G:1087:ARG:HG2	2:G:1154:ASP:HA	2.01	0.42
2:G:1157:GLU:O	2:G:1159:THR:HG23	2.20	0.42
2:G:1423:ASP:OD2	2:G:1425:GLU:HG2	2.20	0.42
2:G:1730:MET:C	2:G:1730:MET:SD	3.02	0.42
2:G:1963:GLU:HA	2:G:1966:VAL:HG12	2.02	0.42
2:G:2456:ILE:O	2:G:2460:LEU:HD23	2.20	0.42
2:G:4062:PHE:CZ	2:G:4139:ILE:HG23	2.54	0.42
2:J:515:TRP:CZ3	2:J:555:GLU:HG2	2.55	0.42
2:J:1230:MET:HE3	2:J:1827:ARG:NH2	2.35	0.42
2:J:1698:LEU:HG	2:J:1712:TYR:CE1	2.55	0.42
2:J:2637:ALA:C	2:J:2640:PRO:HD2	2.45	0.42
2:J:2967:MET:HE2	2:J:3045:LYS:CD	2.49	0.42
2:J:4062:PHE:CZ	2:J:4139:ILE:HG23	2.54	0.42
2:J:4154:VAL:HG13	2:J:4154:VAL:O	2.20	0.42
2:J:4998:LYS:HB2	2:J:4998:LYS:HE3	1.82	0.42
2:B:103:TYR:CZ	2:B:163:VAL:HG12	2.55	0.41
2:B:1083:VAL:HG23	2:B:1155:LEU:HD11	2.01	0.41
2:B:1496:TRP:CZ2	2:B:1498:GLY:HA3	2.55	0.41
2:B:1670:TYR:HA	2:B:1673:VAL:HG22	2.01	0.41
2:B:1733:GLU:OE2	2:B:2163:ARG:NH2	2.53	0.41
2:B:1943:LEU:HA	2:B:1946:PHE:CD2	2.55	0.41
2:B:1978:ALA:O	2:B:1981:MET:HG2	2.20	0.41
2:B:2137:ALA:O	2:B:2140:ARG:HG2	2.20	0.41
2:B:2173:GLN:O	2:B:2177:LEU:HD23	2.19	0.41
2:B:2962:GLN:OE1	2:B:2965:ARG:HD3	2.20	0.41
2:B:3510:ILE:HG21	2:B:3606:LEU:HD22	2.02	0.41
2:B:3553:LEU:HD23	2:B:3593:VAL:HA	2.01	0.41
2:B:3962:PHE:HA	2:B:3965:LEU:HD12	2.01	0.41
2:B:4181:ILE:HD11	2:B:4988:TYR:CD2	2.55	0.41
2:E:515:TRP:CZ3	2:E:555:GLU:HG2	2.55	0.41
2:E:728:ARG:NH2	2:E:1489:CYS:SG	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:744:VAL:HG22	2:E:759:ILE:HD12	2.02	0.41
2:E:1066:GLN:HA	2:E:1069:TRP:CH2	2.55	0.41
2:E:2351:ASN:O	2:E:2355:ARG:HD3	2.20	0.41
2:E:2906:VAL:HG23	2:E:2911:LEU:HB3	2.02	0.41
2:E:3144:PHE:CE2	2:E:3197:LEU:HB3	2.54	0.41
2:E:3866:ILE:HG23	2:E:3868:ARG:HG3	2.00	0.41
2:E:4994:TYR:O	2:E:4998:LYS:HG2	2.20	0.41
2:G:583:ILE:O	2:G:587:ILE:HG13	2.20	0.41
2:G:1131:ARG:C	2:G:1132:TRP:HD1	2.28	0.41
2:G:1230:MET:HE3	2:G:1827:ARG:NH2	2.35	0.41
2:G:2273:LEU:HG	2:G:2334:PHE:CE2	2.54	0.41
2:G:2815:ALA:HB1	2:G:2881:ASN:ND2	2.35	0.41
2:G:3187:ARG:NH1	2:G:3267:PRO:HB2	2.35	0.41
2:G:4181:ILE:HD11	2:G:4988:TYR:CD2	2.55	0.41
2:J:103:TYR:CZ	2:J:163:VAL:HG12	2.55	0.41
2:J:1733:GLU:OE2	2:J:2163:ARG:NH2	2.53	0.41
2:J:1965:TYR:O	2:J:1969:LEU:HD23	2.20	0.41
2:J:2906:VAL:HG23	2:J:2911:LEU:HB3	2.02	0.41
2:J:2978:GLU:HA	2:J:2981:VAL:HG12	2.02	0.41
2:J:3187:ARG:NH1	2:J:3267:PRO:HB2	2.35	0.41
2:J:3510:ILE:HG21	2:J:3606:LEU:HD22	2.02	0.41
2:J:3885:PHE:O	2:J:3889:GLN:HG2	2.20	0.41
2:J:4197:ILE:HG21	2:J:4202:ARG:HH11	1.85	0.41
1:A:55:VAL:HG13	1:A:60:GLU:HB2	2.02	0.41
2:B:595:ARG:HH22	2:B:1641:ILE:HG23	1.85	0.41
2:B:728:ARG:NH2	2:B:1489:CYS:SG	2.93	0.41
2:B:891:TRP:HA	2:B:902:ARG:HB3	2.01	0.41
2:B:1698:LEU:HG	2:B:1712:TYR:CE1	2.55	0.41
2:B:1816:GLY:HA2	2:B:1865:MET:CE	2.50	0.41
2:B:2351:ASN:O	2:B:2355:ARG:HD3	2.20	0.41
2:B:4576:ILE:HG21	2:B:4643:LEU:HB2	2.01	0.41
2:B:4661:TYR:HA	2:B:4664:LEU:HD23	2.01	0.41
2:E:733:PRO:HB2	2:E:762:CYS:SG	2.60	0.41
2:E:1131:ARG:C	2:E:1132:TRP:HD1	2.28	0.41
2:E:1147:ASP:HB3	2:E:1164:LEU:HD11	2.02	0.41
2:E:1423:ASP:OD2	2:E:1425:GLU:HG2	2.20	0.41
2:E:1943:LEU:HA	2:E:1946:PHE:CD2	2.55	0.41
2:E:2768:PHE:HB2	2:E:2857:PRO:HD2	2.00	0.41
2:E:3187:ARG:NH1	2:E:3267:PRO:HB2	2.35	0.41
2:E:3335:MET:CB	2:E:3403:ARG:HD2	2.50	0.41
2:E:4779:LYS:HB2	2:E:4779:LYS:HE3	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:4851:TYR:HA	2:E:4854:VAL:HG22	2.01	0.41
2:G:449:ILE:O	2:G:453:GLU:HG3	2.21	0.41
2:G:1005:TRP:NE1	2:G:1016:ARG:HH21	2.17	0.41
2:G:2110:TYR:HB2	2:G:3695:PRO:HD2	2.02	0.41
2:G:2126:ARG:NH2	2:G:2133:GLU:OE2	2.48	0.41
2:G:2737:PRO:HB2	2:G:2884:ASN:O	2.20	0.41
2:G:3335:MET:CB	2:G:3403:ARG:HD2	2.50	0.41
2:G:3592:ILE:HG12	2:G:3595:ARG:NH2	2.34	0.41
2:G:4162:ASN:O	2:G:4166:LEU:HG	2.20	0.41
2:G:4899:ASP:OD1	2:G:4899:ASP:N	2.54	0.41
2:G:4998:LYS:HB2	2:G:4998:LYS:HE3	1.82	0.41
2:J:733:PRO:HB2	2:J:762:CYS:SG	2.60	0.41
2:J:1100:MET:CE	2:J:1192:CYS:HB2	2.50	0.41
2:J:1435:TYR:HE1	2:J:1452:TRP:CZ2	2.38	0.41
2:J:2251:PHE:CE1	2:J:2254:LEU:HD22	2.54	0.41
2:J:2445:ALA:HB1	2:J:2447:LYS:HE2	2.02	0.41
2:J:3579:LEU:HD23	2:J:3582:ARG:HA	2.02	0.41
1:D:7:ILE:O	2:E:736:HIS:HA	2.20	0.41
1:I:57:LYS:HD2	1:I:80:VAL:HG12	2.03	0.41
2:B:210:GLU:HG2	2:B:273:HIS:CD2	2.55	0.41
2:B:472:ARG:HA	2:B:472:ARG:HD3	1.93	0.41
2:B:472:ARG:NH1	2:B:475:GLN:OE1	2.53	0.41
2:B:487:VAL:O	2:B:491:ILE:HG13	2.20	0.41
2:B:1175:SER:HB2	2:B:1180:ARG:NH2	2.36	0.41
2:B:1561:VAL:HG13	2:B:1562:ILE:N	2.35	0.41
2:B:2611:CYS:SG	2:B:2643:LEU:HD11	2.61	0.41
2:B:2700:MET:CE	2:B:3004:PRO:HB2	2.50	0.41
2:B:2878:LEU:HG	2:B:2882:TYR:CZ	2.54	0.41
2:B:4150:LEU:O	2:B:4154:VAL:HG12	2.19	0.41
2:B:4204:GLN:NE2	2:B:4248:ALA:HB3	2.35	0.41
2:E:16:THR:HG23	2:E:99:ARG:O	2.21	0.41
2:E:487:VAL:O	2:E:491:ILE:HG13	2.20	0.41
2:E:548:VAL:HA	2:E:551:LEU:HG	2.02	0.41
2:E:2110:TYR:HB2	2:E:3695:PRO:HD2	2.02	0.41
2:E:2374:SER:OG	2:E:2375:GLY:N	2.53	0.41
2:E:2537:ASP:OD2	2:E:2592:GLY:HA3	2.21	0.41
2:E:2621:HIS:HA	2:E:2624:ARG:HD3	2.01	0.41
2:E:4147:LEU:HD22	2:E:4167:ALA:HB3	2.02	0.41
2:E:4154:VAL:HG13	2:E:4154:VAL:O	2.20	0.41
2:G:363:ASP:HA	2:G:364:PRO:HD2	1.96	0.41
2:G:1175:SER:HB2	2:G:1180:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2351:ASN:O	2:G:2355:ARG:HD3	2.20	0.41
2:G:2694:GLU:OE2	2:G:2697:ARG:NH2	2.52	0.41
2:G:2906:VAL:HG23	2:G:2911:LEU:HB3	2.02	0.41
2:G:3400:VAL:HG23	2:G:3403:ARG:HE	1.86	0.41
2:J:472:ARG:NH1	2:J:475:GLN:OE1	2.53	0.41
2:J:480:GLU:OE2	2:J:481:GLU:HG2	2.19	0.41
2:J:728:ARG:NH2	2:J:1489:CYS:SG	2.93	0.41
2:J:1071:ARG:HA	2:J:1071:ARG:HD3	1.83	0.41
2:J:1561:VAL:HG13	2:J:1562:ILE:N	2.35	0.41
2:J:2977:LEU:HA	2:J:2980:VAL:HG22	2.02	0.41
2:J:2996:LYS:HD3	2:J:2996:LYS:HA	1.84	0.41
2:J:3805:LEU:HD23	2:J:3812:VAL:HG23	2.03	0.41
2:B:16:THR:HG23	2:B:99:ARG:O	2.20	0.41
2:B:1043:VAL:O	2:B:1047:LEU:HG	2.21	0.41
2:B:1066:GLN:HA	2:B:1069:TRP:CH2	2.55	0.41
2:B:1293:LEU:HD11	2:B:1594:ARG:HG2	2.01	0.41
2:B:1466:LEU:HD12	2:B:1466:LEU:HA	1.94	0.41
2:B:2230:THR:O	2:B:2234:ARG:HG3	2.20	0.41
2:B:2263:ILE:O	2:B:2267:MET:HG2	2.20	0.41
2:B:2456:ILE:O	2:B:2460:LEU:HD23	2.20	0.41
2:B:2906:VAL:HG23	2:B:2911:LEU:HB3	2.02	0.41
2:B:3427:PRO:HG3	2:B:3579:LEU:HD21	2.02	0.41
2:B:4062:PHE:CZ	2:B:4139:ILE:HG23	2.54	0.41
2:B:4181:ILE:HG13	2:B:4182:GLU:H	1.84	0.41
2:B:4197:ILE:HG21	2:B:4202:ARG:HH11	1.85	0.41
2:B:4584:ASP:HA	2:B:4628:VAL:HA	2.01	0.41
2:E:1043:VAL:HA	2:E:1046:LEU:HG	2.03	0.41
2:E:1043:VAL:O	2:E:1047:LEU:HG	2.21	0.41
2:E:1175:SER:HB2	2:E:1180:ARG:NH2	2.35	0.41
2:E:2445:ALA:HB1	2:E:2447:LYS:HE2	2.02	0.41
2:E:2978:GLU:HA	2:E:2981:VAL:HG12	2.02	0.41
2:E:4062:PHE:CZ	2:E:4139:ILE:HG23	2.54	0.41
2:E:4087:LEU:HB3	2:E:4122:MET:SD	2.60	0.41
2:E:4958:CYS:N	2:E:4975:PHE:HE1	2.19	0.41
2:G:472:ARG:NH1	2:G:475:GLN:OE1	2.53	0.41
2:G:839:LEU:HD13	2:G:1075:PHE:CG	2.56	0.41
2:G:1435:TYR:HE1	2:G:1452:TRP:CZ2	2.38	0.41
2:G:2445:ALA:HB1	2:G:2447:LYS:HE2	2.02	0.41
2:G:3144:PHE:CE2	2:G:3197:LEU:HB3	2.54	0.41
2:G:3593:VAL:HG23	2:G:3594:ARG:HE	1.85	0.41
2:G:3805:LEU:HD23	2:G:3812:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4661:TYR:HA	2:G:4664:LEU:HD23	2.01	0.41
2:J:872:GLU:O	2:J:876:GLU:HG2	2.21	0.41
2:J:1128:ARG:HH21	2:J:1132:TRP:HZ2	1.67	0.41
2:J:2251:PHE:CG	2:J:2286:LEU:HD22	2.56	0.41
2:J:3335:MET:CB	2:J:3403:ARG:HD2	2.50	0.41
2:J:5012:LYS:O	2:J:5016:GLU:HG2	2.19	0.41
1:A:57:LYS:HD2	1:A:80:VAL:HG12	2.03	0.41
1:D:55:VAL:HG13	1:D:60:GLU:HB2	2.02	0.41
1:D:57:LYS:HD2	1:D:80:VAL:HG12	2.03	0.41
2:B:277:GLY:N	2:B:316:PHE:O	2.44	0.41
2:B:358:THR:HG21	2:B:382:GLY:HA2	2.03	0.41
2:B:733:PRO:HB2	2:B:762:CYS:SG	2.60	0.41
2:B:1131:ARG:C	2:B:1132:TRP:HD1	2.28	0.41
2:B:1439:VAL:HB	2:B:1514:LEU:HB2	2.01	0.41
2:B:1963:GLU:HA	2:B:1966:VAL:HG12	2.02	0.41
2:B:1965:TYR:O	2:B:1969:LEU:HD23	2.20	0.41
2:B:2336:ARG:HB2	2:B:2435:ARG:CD	2.45	0.41
2:B:2357:LEU:HD13	2:B:2364:PHE:HZ	1.84	0.41
2:B:3713:LYS:NZ	2:B:3716:LEU:HD12	2.35	0.41
2:B:3843:ASP:HB3	2:B:3846:ALA:HB3	2.02	0.41
2:E:839:LEU:HD13	2:E:1075:PHE:CG	2.56	0.41
2:E:891:TRP:HA	2:E:902:ARG:HB3	2.01	0.41
2:E:3427:PRO:HG3	2:E:3579:LEU:HD21	2.02	0.41
2:E:4181:ILE:HG13	2:E:4182:GLU:H	1.84	0.41
2:G:16:THR:HG23	2:G:99:ARG:O	2.21	0.41
2:G:657:THR:O	2:G:1007:TYR:N	2.54	0.41
2:G:1067:SER:HA	2:G:1070:ASP:HB2	2.03	0.41
2:G:1122:TYR:HE1	2:G:1133:HIS:CD2	2.39	0.41
2:G:1561:VAL:HG13	2:G:1562:ILE:N	2.36	0.41
2:G:1816:GLY:HA2	2:G:1865:MET:CE	2.50	0.41
2:G:1943:LEU:HA	2:G:1946:PHE:CD2	2.56	0.41
2:G:1978:ALA:O	2:G:1981:MET:HG2	2.20	0.41
2:G:2336:ARG:HB2	2:G:2435:ARG:CD	2.45	0.41
2:G:4888:TYR:OH	2:J:4913:ARG:NH2	2.53	0.41
2:G:4945:ASP:HB3	2:G:4949:GLN:HE22	1.86	0.41
2:J:1131:ARG:C	2:J:1132:TRP:HD1	2.28	0.41
2:J:1147:ASP:HB3	2:J:1164:LEU:HD11	2.02	0.41
2:J:1175:SER:HB2	2:J:1180:ARG:NH2	2.35	0.41
2:J:1496:TRP:CZ2	2:J:1498:GLY:HA3	2.55	0.41
2:J:1639:LEU:HD23	2:J:1653:LEU:HD11	2.02	0.41
2:J:2357:LEU:HD13	2:J:2364:PHE:HZ	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2426:TYR:O	2:J:2430:ILE:HG12	2.21	0.41
2:J:4204:GLN:NE2	2:J:4248:ALA:HB3	2.35	0.41
3:F:105:ASN:ND2	3:F:108:GLY:O	2.54	0.41
2:B:657:THR:O	2:B:1007:TYR:N	2.54	0.41
2:B:664:PHE:HA	2:B:800:PHE:HE1	1.85	0.41
2:B:744:VAL:HG22	2:B:759:ILE:HD12	2.02	0.41
2:B:872:GLU:O	2:B:876:GLU:HG2	2.21	0.41
2:E:548:VAL:HG21	2:E:582:HIS:HD2	1.86	0.41
2:E:664:PHE:HA	2:E:800:PHE:HE1	1.85	0.41
2:E:1496:TRP:CZ2	2:E:1498:GLY:HA3	2.55	0.41
2:E:1561:VAL:HG13	2:E:1562:ILE:N	2.35	0.41
2:E:2456:ILE:O	2:E:2460:LEU:HD23	2.20	0.41
2:E:3892:CYS:O	2:E:3970:GLN:NE2	2.54	0.41
2:E:3986:TRP:CZ3	2:E:3989:VAL:HG11	2.56	0.41
2:E:4197:ILE:HG21	2:E:4202:ARG:HH11	1.85	0.41
2:G:1698:LEU:HG	2:G:1712:TYR:CE1	2.55	0.41
2:G:3427:PRO:HG3	2:G:3579:LEU:HD21	2.02	0.41
2:J:223:PHE:CD2	2:J:230:CYS:HB3	2.55	0.41
2:J:646:PRO:O	2:J:821:LEU:HD11	2.21	0.41
2:J:667:MET:HE3	2:J:790:ARG:HE	1.84	0.41
2:J:839:LEU:HD13	2:J:1075:PHE:CG	2.56	0.41
2:J:2431:ASP:O	2:J:2435:ARG:HG2	2.20	0.41
2:J:4088:ILE:HG23	2:J:4123:ILE:HB	2.03	0.41
3:F:107:TRP:HE3	3:F:111:ASN:HD21	1.68	0.41
3:K:14:ALA:HA	3:K:85:LEU:HB2	2.02	0.41
2:B:248:GLU:HB2	2:B:373:LYS:CD	2.37	0.41
2:B:341:TYR:HE2	2:B:392:ARG:HB2	1.85	0.41
2:B:615:ARG:HH12	2:B:1676:LEU:HB2	1.86	0.41
2:B:667:MET:HE3	2:B:790:ARG:HE	1.84	0.41
2:B:849:THR:O	2:B:852:VAL:HG22	2.20	0.41
2:B:1100:MET:CE	2:B:1192:CYS:HB2	2.50	0.41
2:B:2333:ASP:HA	2:B:2336:ARG:NE	2.36	0.41
2:B:2537:ASP:OD2	2:B:2592:GLY:HA3	2.21	0.41
2:B:3032:SER:HB2	2:B:3035:GLU:HG3	2.03	0.41
2:B:3276:MET:O	2:B:3276:MET:HE3	2.21	0.41
2:B:3986:TRP:CZ3	2:B:3989:VAL:HG11	2.56	0.41
2:E:872:GLU:O	2:E:876:GLU:HG2	2.21	0.41
2:E:1128:ARG:HH21	2:E:1132:TRP:HZ2	1.67	0.41
2:E:1154:ASP:HB2	2:E:1159:THR:H	1.86	0.41
2:E:1220:GLN:H	2:E:1220:GLN:CD	2.29	0.41
2:E:1230:MET:HE3	2:E:1827:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1272:LEU:HD22	2:E:1289:LEU:HD11	2.03	0.41
2:E:2251:PHE:CG	2:E:2286:LEU:HD22	2.56	0.41
2:E:2680:TRP:CZ3	2:E:2962:GLN:HG3	2.54	0.41
2:E:2911:LEU:HD13	2:E:2915:GLU:HG3	2.02	0.41
2:E:3051:ARG:HA	2:E:3131:TYR:OH	2.21	0.41
2:E:3722:TYR:CE1	2:E:3782:MET:HE1	2.56	0.41
2:E:3754:GLU:O	2:E:3758:MET:HG2	2.19	0.41
2:E:3962:PHE:HA	2:E:3965:LEU:HD12	2.01	0.41
2:E:4162:ASN:O	2:E:4166:LEU:HG	2.20	0.41
2:E:4181:ILE:HD11	2:E:4988:TYR:CD2	2.55	0.41
2:E:4880:MET:SD	2:E:4881:THR:N	2.94	0.41
2:E:4913:ARG:NH2	2:J:4888:TYR:OH	2.53	0.41
2:G:299:LEU:HD11	2:G:376:ALA:HB3	2.02	0.41
2:G:1043:VAL:O	2:G:1047:LEU:HG	2.21	0.41
2:G:1965:TYR:O	2:G:1969:LEU:HD23	2.20	0.41
2:G:2431:ASP:O	2:G:2435:ARG:HG2	2.20	0.41
2:G:2755:ILE:HD12	2:G:2813:LEU:HG	2.02	0.41
2:G:3252:ASP:O	2:G:3256:LEU:HG	2.19	0.41
2:G:3302:PRO:HA	2:G:3303:PRO:HD3	1.94	0.41
2:G:3567:PRO:O	2:G:3570:ARG:HB3	2.21	0.41
2:J:210:GLU:HG2	2:J:273:HIS:CD2	2.55	0.41
2:J:220:LEU:HD12	2:J:390:LEU:HB3	2.03	0.41
2:J:1005:TRP:NE1	2:J:1016:ARG:HH21	2.17	0.41
2:J:1653:LEU:HD23	2:J:1660:GLN:HB2	2.03	0.41
2:J:1771:LEU:HD12	2:J:2144:ILE:HD11	2.02	0.41
2:J:2333:ASP:HA	2:J:2336:ARG:NE	2.36	0.41
2:J:2456:ILE:O	2:J:2460:LEU:HD23	2.20	0.41
2:J:2655:TYR:HB2	2:J:2709:ALA:O	2.21	0.41
2:J:2962:GLN:OE1	2:J:2965:ARG:HD3	2.20	0.41
2:J:3051:ARG:HA	2:J:3131:TYR:OH	2.21	0.41
2:J:3276:MET:O	2:J:3276:MET:HE3	2.21	0.41
2:J:3315:LEU:HD22	2:J:3345:ILE:HG12	2.02	0.41
2:J:4548:ARG:O	2:J:4552:LEU:HG	2.21	0.41
3:M:14:ALA:HA	3:M:85:LEU:HB2	2.02	0.41
1:I:15:PHE:HA	1:I:16:PRO:HD3	1.95	0.41
2:B:223:PHE:CD2	2:B:230:CYS:HB3	2.55	0.41
2:B:372:LEU:O	2:B:374:LYS:HG3	2.21	0.41
2:B:870:ILE:O	2:B:874:LEU:HG	2.20	0.41
2:B:1639:LEU:HD23	2:B:1653:LEU:HD11	2.03	0.41
2:B:1653:LEU:HD23	2:B:1660:GLN:HB2	2.03	0.41
2:B:2655:TYR:HB2	2:B:2709:ALA:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2962:GLN:HA	2:B:2965:ARG:HG2	2.03	0.41
2:B:3392:LEU:HA	2:B:3395:ARG:HD2	2.02	0.41
2:B:3400:VAL:HG23	2:B:3403:ARG:HE	1.85	0.41
2:B:3428:ASN:ND2	2:B:3430:ASN:HB2	2.36	0.41
2:B:3805:LEU:HD23	2:B:3812:VAL:HG23	2.03	0.41
2:B:4880:MET:SD	2:B:4881:THR:N	2.94	0.41
2:E:43:GLY:H	2:E:443:LEU:HD23	1.86	0.41
2:E:615:ARG:HH12	2:E:1676:LEU:HB2	1.86	0.41
2:E:646:PRO:O	2:E:821:LEU:HD11	2.21	0.41
2:E:1067:SER:HA	2:E:1070:ASP:HB2	2.03	0.41
2:E:1247:PRO:HA	2:E:1598:GLN:HA	2.03	0.41
2:E:1443:GLN:HG2	2:E:1561:VAL:HG23	2.03	0.41
2:E:1771:LEU:HD12	2:E:2144:ILE:HD11	2.02	0.41
2:E:1776:HIS:NE2	2:E:2157:GLU:OE2	2.46	0.41
2:E:1978:ALA:O	2:E:1981:MET:HG2	2.20	0.41
2:E:2498:HIS:O	2:E:2501:SER:OG	2.27	0.41
2:E:2655:TYR:HB2	2:E:2709:ALA:O	2.21	0.41
2:E:2673:HIS:NE2	2:E:2677:LYS:HE2	2.36	0.41
2:E:2858:GLN:HB2	2:E:2859:PRO:HD3	2.02	0.41
2:E:2962:GLN:OE1	2:E:2965:ARG:HD3	2.20	0.41
2:E:3553:LEU:HD23	2:E:3593:VAL:HA	2.01	0.41
2:E:3674:ILE:HD13	2:E:3674:ILE:HA	1.95	0.41
2:E:3843:ASP:HB3	2:E:3846:ALA:HB3	2.02	0.41
2:G:733:PRO:HB2	2:G:762:CYS:SG	2.60	0.41
2:G:2258:LEU:O	2:G:2261:SER:OG	2.24	0.41
2:G:2700:MET:CE	2:G:3004:PRO:HB2	2.50	0.41
2:G:3032:SER:HB2	2:G:3035:GLU:HG3	2.03	0.41
2:G:3051:ARG:HA	2:G:3131:TYR:OH	2.21	0.41
2:G:3428:ASN:ND2	2:G:3430:ASN:HB2	2.36	0.41
2:G:3579:LEU:HD23	2:G:3582:ARG:HA	2.02	0.41
2:G:4204:GLN:NE2	2:G:4248:ALA:HB3	2.35	0.41
2:G:5012:LYS:O	2:G:5016:GLU:HG2	2.19	0.41
2:J:595:ARG:HH22	2:J:1641:ILE:HG23	1.85	0.41
2:J:870:ILE:O	2:J:874:LEU:HG	2.20	0.41
2:J:1066:GLN:HA	2:J:1069:TRP:CH2	2.55	0.41
2:J:1157:GLU:O	2:J:1159:THR:HG23	2.20	0.41
2:J:1423:ASP:OD2	2:J:1425:GLU:HG2	2.20	0.41
2:J:1443:GLN:HG2	2:J:1561:VAL:HG23	2.03	0.41
2:J:2223:ILE:HD12	2:J:2223:ILE:HA	1.94	0.41
2:J:2374:SER:OG	2:J:2375:GLY:N	2.53	0.41
2:J:2537:ASP:OD2	2:J:2592:GLY:HA3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2611:CYS:SG	2:J:2643:LEU:HD11	2.60	0.41
2:J:3593:VAL:HG23	2:J:3594:ARG:HE	1.85	0.41
2:J:4087:LEU:HB3	2:J:4122:MET:SD	2.61	0.41
2:J:4181:ILE:HD11	2:J:4988:TYR:CD2	2.55	0.41
2:J:4945:ASP:HB3	2:J:4949:GLN:HE22	1.86	0.41
3:K:85:LEU:HD23	3:K:85:LEU:HA	1.90	0.41
1:I:40:ARG:H	1:I:40:ARG:HG2	1.73	0.41
2:B:449:ILE:O	2:B:453:GLU:HG3	2.21	0.41
2:B:687:ALA:HB2	2:B:780:VAL:HG11	2.03	0.41
2:B:1302:ARG:H	2:B:1302:ARG:HG2	1.68	0.41
2:B:1435:TYR:HE1	2:B:1452:TRP:CZ2	2.38	0.41
2:B:2001:PRO:HA	2:B:2002:PRO:HD3	1.99	0.41
2:B:2251:PHE:CG	2:B:2286:LEU:HD22	2.56	0.41
2:B:2737:PRO:HB2	2:B:2884:ASN:O	2.20	0.41
2:B:2911:LEU:HD13	2:B:2915:GLU:HG3	2.02	0.41
2:B:3315:LEU:HD22	2:B:3345:ILE:HG12	2.02	0.41
2:B:3335:MET:CB	2:B:3403:ARG:HD2	2.50	0.41
2:B:3352:GLU:HA	2:B:3355:HIS:NE2	2.36	0.41
2:B:3379:LEU:HD12	2:B:3387:ALA:HA	2.02	0.41
2:B:3390:GLY:O	2:B:3394:VAL:HG13	2.20	0.41
2:B:3892:CYS:O	2:B:3970:GLN:NE2	2.53	0.41
2:B:4049:VAL:HG12	2:B:4163:PHE:CE2	2.56	0.41
2:E:220:LEU:HD12	2:E:390:LEU:HB3	2.03	0.41
2:E:284:HIS:HE1	2:E:286:THR:HB	1.84	0.41
2:E:592:LYS:HE2	2:E:592:LYS:HB3	1.92	0.41
2:E:595:ARG:HH22	2:E:1641:ILE:HG23	1.85	0.41
2:E:870:ILE:O	2:E:874:LEU:HG	2.20	0.41
2:E:1083:VAL:HG23	2:E:1155:LEU:HD11	2.01	0.41
2:E:1100:MET:CE	2:E:1192:CYS:HB2	2.50	0.41
2:E:1157:GLU:O	2:E:1159:THR:HG23	2.20	0.41
2:E:1439:VAL:HB	2:E:1514:LEU:HB2	2.01	0.41
2:E:1670:TYR:HA	2:E:1673:VAL:HG22	2.01	0.41
2:E:1963:GLU:HA	2:E:1966:VAL:HG12	2.02	0.41
2:E:2333:ASP:HA	2:E:2336:ARG:NE	2.36	0.41
2:E:3137:LEU:HB3	2:E:3138:PRO:HD3	2.03	0.41
2:E:3871:GLY:O	2:E:3949:ARG:NH2	2.54	0.41
2:E:4548:ARG:O	2:E:4552:LEU:HG	2.21	0.41
2:G:223:PHE:CD2	2:G:230:CYS:HB3	2.55	0.41
2:G:424:LYS:HE2	2:G:424:LYS:HB2	1.90	0.41
2:G:531:ARG:NH2	2:G:562:GLU:OE2	2.50	0.41
2:G:728:ARG:NH2	2:G:1489:CYS:SG	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:891:TRP:HA	2:G:902:ARG:HB3	2.01	0.41
2:G:996:TRP:HZ2	3:M:113:GLU:HG3	1.86	0.41
2:G:1093:GLU:HB2	2:G:1148:VAL:HG12	2.03	0.41
2:G:1547:LYS:NZ	2:G:1642:PRO:O	2.54	0.41
2:G:2263:ILE:O	2:G:2267:MET:HG2	2.20	0.41
2:G:2655:TYR:HB2	2:G:2709:ALA:O	2.21	0.41
2:G:3137:LEU:HB3	2:G:3138:PRO:HD3	2.02	0.41
2:G:3202:PRO:HA	2:G:3283:ARG:NH2	2.36	0.41
2:G:3276:MET:HE3	2:G:3276:MET:O	2.21	0.41
2:G:3379:LEU:HD12	2:G:3387:ALA:HA	2.02	0.41
2:G:3392:LEU:HA	2:G:3395:ARG:HD2	2.02	0.41
2:G:3713:LYS:NZ	2:G:3716:LEU:HD12	2.35	0.41
2:G:3871:GLY:O	2:G:3949:ARG:NH2	2.54	0.41
2:G:3992:PHE:O	2:G:3996:PHE:HD1	2.04	0.41
2:G:4049:VAL:HG12	2:G:4163:PHE:CE2	2.56	0.41
2:G:4779:LYS:HB2	2:G:4779:LYS:HE3	1.88	0.41
2:G:4904:PRO:HG3	2:G:4913:ARG:HE	1.85	0.41
2:J:16:THR:HG23	2:J:99:ARG:O	2.20	0.41
2:J:664:PHE:HA	2:J:800:PHE:HE1	1.85	0.41
2:J:744:VAL:HG22	2:J:759:ILE:HD12	2.03	0.41
2:J:1067:SER:HA	2:J:1070:ASP:HB2	2.03	0.41
2:J:1154:ASP:HB2	2:J:1159:THR:H	1.86	0.41
2:J:1670:TYR:HA	2:J:1673:VAL:HG22	2.01	0.41
2:J:1808:ARG:HD2	2:J:1858:ASP:OD2	2.21	0.41
2:J:1943:LEU:HA	2:J:1946:PHE:CD2	2.56	0.41
2:J:1963:GLU:HA	2:J:1966:VAL:HG12	2.02	0.41
2:J:2096:GLU:HB3	2:J:2100:HIS:CE1	2.56	0.41
2:J:2230:THR:O	2:J:2234:ARG:HG3	2.20	0.41
2:J:3706:SER:OG	2:J:3778:MET:HB3	2.21	0.41
2:J:3733:CYS:SG	2:J:3803:SER:OG	2.61	0.41
2:J:3871:GLY:O	2:J:3949:ARG:NH2	2.54	0.41
2:J:3986:TRP:CZ3	2:J:3989:VAL:HG11	2.56	0.41
2:J:4162:ASN:O	2:J:4166:LEU:HG	2.20	0.41
2:J:4851:TYR:HA	2:J:4854:VAL:HG22	2.01	0.41
2:J:4958:CYS:N	2:J:4975:PHE:HE1	2.19	0.41
3:K:81:GLN:HB3	3:K:81:GLN:HE21	1.73	0.41
2:B:646:PRO:O	2:B:821:LEU:HD11	2.21	0.41
2:B:839:LEU:HD13	2:B:1075:PHE:CG	2.56	0.41
2:B:1423:ASP:OD2	2:B:1425:GLU:HG2	2.20	0.41
2:B:1443:GLN:HG2	2:B:1561:VAL:HG23	2.03	0.41
2:B:2096:GLU:HB3	2:B:2100:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2681:GLY:HA2	2:B:2684:ASP:OD2	2.21	0.41
2:B:2858:GLN:HB2	2:B:2859:PRO:HD3	2.02	0.41
2:B:3137:LEU:HB3	2:B:3138:PRO:HD3	2.02	0.41
2:B:3722:TYR:CE1	2:B:3782:MET:HE1	2.56	0.41
2:B:4899:ASP:N	2:B:4899:ASP:OD1	2.54	0.41
2:E:657:THR:O	2:E:1007:TYR:N	2.54	0.41
2:E:2755:ILE:HD12	2:E:2813:LEU:HG	2.02	0.41
2:E:2967:MET:HE2	2:E:3045:LYS:CD	2.49	0.41
2:E:3593:VAL:HG23	2:E:3594:ARG:HE	1.85	0.41
2:E:3845:ASN:OD1	2:E:3846:ALA:N	2.54	0.41
2:E:3986:TRP:CD1	2:E:4047:MET:HB3	2.56	0.41
2:G:56:GLN:O	2:G:308:HIS:HA	2.21	0.41
2:G:1115:LEU:HB3	2:G:1123:VAL:HG11	2.03	0.41
2:G:1154:ASP:HB2	2:G:1159:THR:H	1.86	0.41
2:G:2096:GLU:HB3	2:G:2100:HIS:CE1	2.56	0.41
2:G:2230:THR:O	2:G:2234:ARG:HG3	2.20	0.41
2:G:2962:GLN:HA	2:G:2965:ARG:HG2	2.03	0.41
2:G:2962:GLN:OE1	2:G:2965:ARG:HD3	2.20	0.41
2:G:3843:ASP:HB3	2:G:3846:ALA:HB3	2.02	0.41
2:G:4548:ARG:O	2:G:4552:LEU:HG	2.21	0.41
2:G:4880:MET:SD	2:G:4881:THR:N	2.94	0.41
2:J:117:TYR:N	2:J:138:GLN:O	2.52	0.41
2:J:615:ARG:HH12	2:J:1676:LEU:HB2	1.86	0.41
2:J:891:TRP:HA	2:J:902:ARG:HB3	2.01	0.41
2:J:996:TRP:HZ2	3:K:113:GLU:HG3	1.86	0.41
2:J:1432:THR:OG1	2:J:1519:LEU:HG	2.20	0.41
2:J:1978:ALA:O	2:J:1981:MET:HG2	2.20	0.41
2:J:2737:PRO:HB2	2:J:2884:ASN:O	2.20	0.41
2:J:2768:PHE:HA	2:J:2771:ILE:HG22	2.03	0.41
2:J:3427:PRO:HG3	2:J:3579:LEU:HD21	2.02	0.41
2:J:3567:PRO:O	2:J:3570:ARG:HB3	2.21	0.41
2:J:3754:GLU:O	2:J:3758:MET:HG2	2.19	0.41
2:J:3986:TRP:CD1	2:J:4047:MET:HB3	2.56	0.41
2:J:4898:GLY:HA2	2:J:4913:ARG:HH12	1.86	0.41
2:J:4994:TYR:O	2:J:4998:LYS:HG2	2.20	0.41
3:C:22:CYS:O	3:C:77:THR:HA	2.21	0.41
3:C:57:ILE:HD12	3:C:57:ILE:HA	1.93	0.41
3:F:30:SER:HB3	3:F:99:ARG:HB3	2.03	0.41
3:F:57:ILE:HD12	3:F:57:ILE:HA	1.93	0.41
3:K:22:CYS:O	3:K:77:THR:HA	2.21	0.41
3:K:105:ASN:ND2	3:K:108:GLY:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:39:GLN:HB3	3:M:94:TYR:HE2	1.86	0.41
1:H:57:LYS:HD2	1:H:80:VAL:HG12	2.03	0.40
1:I:55:VAL:HG13	1:I:60:GLU:HB2	2.02	0.40
2:B:56:GLN:O	2:B:308:HIS:HA	2.21	0.40
2:B:179:TYR:CD2	2:B:197:GLN:HB3	2.56	0.40
2:B:375:LYS:HE2	2:B:375:LYS:HB2	1.95	0.40
2:B:871:ARG:NH1	2:B:922:LEU:HB3	2.36	0.40
2:B:1104:TRP:CZ2	2:B:1153:ILE:HB	2.56	0.40
2:B:1128:ARG:HH21	2:B:1132:TRP:HZ2	1.67	0.40
2:B:2163:ARG:HA	2:B:2166:LEU:HG	2.03	0.40
2:B:2810:LYS:HB3	2:B:2814:LYS:NZ	2.37	0.40
2:B:2978:GLU:HA	2:B:2981:VAL:HG12	2.02	0.40
2:B:2996:LYS:HA	2:B:2996:LYS:HD3	1.84	0.40
2:B:3337:ARG:O	2:B:3340:VAL:HB	2.22	0.40
2:B:3833:GLN:O	2:B:3836:MET:HG3	2.22	0.40
2:B:4087:LEU:HB3	2:B:4122:MET:SD	2.61	0.40
2:B:4162:ASN:O	2:B:4166:LEU:HG	2.20	0.40
2:E:320:LYS:HE2	2:E:347:PHE:CE2	2.56	0.40
2:E:358:THR:HG21	2:E:382:GLY:HA2	2.03	0.40
2:E:897:ARG:HH12	3:F:104:TYR:HB3	1.86	0.40
2:E:937:CYS:HB3	2:E:1053:ILE:CB	2.51	0.40
2:E:2096:GLU:HB3	2:E:2100:HIS:CE1	2.56	0.40
2:E:3962:PHE:CD1	2:E:3965:LEU:HD12	2.56	0.40
2:E:4041:ALA:O	2:E:4045:VAL:HG23	2.22	0.40
2:G:341:TYR:HE2	2:G:392:ARG:HB2	1.85	0.40
2:G:646:PRO:O	2:G:821:LEU:HD11	2.21	0.40
2:G:870:ILE:O	2:G:874:LEU:HG	2.20	0.40
2:G:1443:GLN:HG2	2:G:1561:VAL:HG23	2.03	0.40
2:G:1808:ARG:HD2	2:G:1858:ASP:OD2	2.21	0.40
2:G:1828:ASP:OD1	2:G:1828:ASP:N	2.54	0.40
2:G:3390:GLY:O	2:G:3394:VAL:HG13	2.20	0.40
2:G:3962:PHE:CD1	2:G:3965:LEU:HD12	2.56	0.40
2:G:4087:LEU:HB3	2:G:4122:MET:SD	2.61	0.40
2:J:103:TYR:HA	2:J:150:MET:HG3	2.03	0.40
2:J:1115:LEU:HB3	2:J:1123:VAL:HG11	2.03	0.40
2:J:1122:TYR:HE1	2:J:1133:HIS:CD2	2.39	0.40
2:J:1220:GLN:H	2:J:1220:GLN:CD	2.29	0.40
2:J:2673:HIS:NE2	2:J:2677:LYS:HE2	2.36	0.40
2:J:2700:MET:CE	2:J:3004:PRO:HB2	2.50	0.40
2:J:2755:ILE:HD12	2:J:2813:LEU:HG	2.02	0.40
2:J:4904:PRO:HG3	2:J:4913:ARG:HE	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:39:GLN:HB3	3:C:94:TYR:HE2	1.86	0.40
3:M:39:GLN:OE1	3:M:45:ARG:HB2	2.21	0.40
2:B:220:LEU:HD12	2:B:390:LEU:HB3	2.03	0.40
2:B:1105:ALA:HB2	2:B:1191:VAL:HG11	2.04	0.40
2:B:1220:GLN:CD	2:B:1220:GLN:H	2.29	0.40
2:B:2423:MET:HE1	2:B:2494:PHE:CG	2.56	0.40
2:B:2423:MET:HB2	2:B:2423:MET:HE3	1.92	0.40
2:B:3202:PRO:HA	2:B:3283:ARG:NH2	2.36	0.40
2:B:3567:PRO:O	2:B:3570:ARG:HB3	2.21	0.40
2:B:3579:LEU:HD23	2:B:3582:ARG:HA	2.02	0.40
2:B:3713:LYS:HZ1	2:B:3716:LEU:HD12	1.86	0.40
2:E:210:GLU:HG2	2:E:273:HIS:CD2	2.55	0.40
2:E:394:GLN:CD	2:E:396:GLU:HB3	2.47	0.40
2:E:1980:LEU:HD22	2:E:1998:PHE:CG	2.56	0.40
2:E:2423:MET:HE1	2:E:2494:PHE:CG	2.56	0.40
2:E:2611:CYS:SG	2:E:2643:LEU:HD11	2.61	0.40
2:E:3316:LEU:HB2	2:E:3345:ILE:HG23	2.03	0.40
2:E:3567:PRO:O	2:E:3570:ARG:HB3	2.21	0.40
2:E:3805:LEU:HD23	2:E:3812:VAL:HG23	2.03	0.40
2:E:4899:ASP:OD1	2:E:4899:ASP:N	2.54	0.40
2:E:4991:PHE:HE2	2:E:5010:VAL:HG11	1.86	0.40
2:G:181:HIS:HB2	2:G:196:MET:O	2.22	0.40
2:G:320:LYS:HE2	2:G:347:PHE:CE2	2.56	0.40
2:G:1043:VAL:HA	2:G:1046:LEU:HG	2.03	0.40
2:G:1147:ASP:HB3	2:G:1164:LEU:HD11	2.02	0.40
2:G:1247:PRO:HA	2:G:1598:GLN:HA	2.03	0.40
2:G:4041:ALA:O	2:G:4045:VAL:HG23	2.22	0.40
2:G:4851:TYR:HA	2:G:4854:VAL:HG22	2.01	0.40
2:J:56:GLN:O	2:J:308:HIS:HA	2.21	0.40
2:J:583:ILE:O	2:J:587:ILE:HG13	2.20	0.40
2:J:937:CYS:HB3	2:J:1053:ILE:CB	2.51	0.40
2:J:1104:TRP:CZ2	2:J:1153:ILE:HB	2.56	0.40
2:J:3428:ASN:ND2	2:J:3430:ASN:HB2	2.36	0.40
2:J:4059:LEU:HD13	2:J:4167:ALA:HB2	2.04	0.40
2:J:4880:MET:SD	2:J:4881:THR:N	2.94	0.40
3:F:39:GLN:HB3	3:F:94:TYR:HE2	1.86	0.40
3:F:90:THR:HG23	3:F:124:THR:HA	2.03	0.40
3:K:30:SER:HB3	3:K:99:ARG:HB3	2.03	0.40
3:K:34:MET:HE2	3:K:95:CYS:SG	2.62	0.40
3:K:39:GLN:HB3	3:K:94:TYR:HE2	1.86	0.40
1:D:56:ILE:HG13	1:D:59:PHE:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:55:VAL:HG13	1:H:60:GLU:HB2	2.02	0.40
2:B:43:GLY:H	2:B:443:LEU:HD23	1.86	0.40
2:B:647:ASN:ND2	2:B:822:ARG:HG2	2.35	0.40
2:B:1043:VAL:HA	2:B:1046:LEU:HG	2.03	0.40
2:B:1115:LEU:HB3	2:B:1123:VAL:HG11	2.03	0.40
2:B:1247:PRO:HA	2:B:1598:GLN:HA	2.03	0.40
2:B:1828:ASP:OD1	2:B:1828:ASP:N	2.54	0.40
2:B:3511:VAL:O	2:B:3515:LYS:HB3	2.22	0.40
2:B:3992:PHE:O	2:B:3996:PHE:HD1	2.04	0.40
2:B:4088:ILE:HG23	2:B:4123:ILE:HB	2.03	0.40
2:E:117:TYR:N	2:E:138:GLN:O	2.52	0.40
2:E:372:LEU:O	2:E:374:LYS:HG3	2.21	0.40
2:E:449:ILE:O	2:E:453:GLU:HG3	2.21	0.40
2:E:1432:THR:OG1	2:E:1519:LEU:HG	2.20	0.40
2:E:2423:MET:HE3	2:E:2423:MET:HB2	1.92	0.40
2:E:2426:TYR:O	2:E:2430:ILE:HG12	2.21	0.40
2:E:2681:GLY:HA2	2:E:2684:ASP:OD2	2.21	0.40
2:E:2962:GLN:HA	2:E:2965:ARG:HG2	2.03	0.40
2:E:3202:PRO:HA	2:E:3283:ARG:NH2	2.36	0.40
2:E:3352:GLU:HA	2:E:3355:HIS:NE2	2.36	0.40
2:E:3384:LYS:NZ	2:E:3386:GLU:HB3	2.36	0.40
2:E:3706:SER:OG	2:E:3778:MET:HB3	2.21	0.40
2:E:3833:GLN:O	2:E:3836:MET:HG3	2.22	0.40
2:E:4945:ASP:HB3	2:E:4949:GLN:HE22	1.86	0.40
2:G:544:LEU:HD21	2:G:578:ILE:HD13	2.04	0.40
2:G:647:ASN:ND2	2:G:822:ARG:HG2	2.35	0.40
2:G:872:GLU:O	2:G:876:GLU:HG2	2.21	0.40
2:G:1269:CYS:SG	2:G:1563:GLN:NE2	2.95	0.40
2:G:1272:LEU:HD22	2:G:1289:LEU:HD11	2.03	0.40
2:G:1639:LEU:HD23	2:G:1653:LEU:HD11	2.02	0.40
2:G:1683:HIS:NE2	2:G:1798:LEU:O	2.43	0.40
2:G:2113:SER:HB3	2:G:2116:LEU:HB3	2.04	0.40
2:G:2251:PHE:CG	2:G:2286:LEU:HD22	2.56	0.40
2:G:2333:ASP:HA	2:G:2336:ARG:NE	2.36	0.40
2:G:2550:LEU:O	2:G:2554:LEU:HG	2.22	0.40
2:G:2611:CYS:SG	2:G:2643:LEU:HD11	2.60	0.40
2:G:2858:GLN:HB2	2:G:2859:PRO:HD3	2.02	0.40
2:G:3081:MET:HE2	2:G:3158:LEU:HD11	2.03	0.40
2:G:3845:ASN:OD1	2:G:3846:ALA:N	2.55	0.40
2:G:3916:ILE:O	2:G:3920:VAL:HG23	2.22	0.40
2:G:4898:GLY:HA2	2:G:4913:ARG:HH12	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:341:TYR:HE2	2:J:392:ARG:HB2	1.85	0.40
2:J:424:LYS:HB2	2:J:424:LYS:HE2	1.90	0.40
2:J:657:THR:O	2:J:1007:TYR:N	2.54	0.40
2:J:2110:TYR:HB2	2:J:3695:PRO:HD2	2.02	0.40
2:J:2113:SER:HB3	2:J:2116:LEU:HB3	2.04	0.40
2:J:3032:SER:HB2	2:J:3035:GLU:HG3	2.03	0.40
2:J:3316:LEU:HB2	2:J:3345:ILE:HG23	2.03	0.40
2:J:3336:LYS:O	2:J:3340:VAL:HG23	2.22	0.40
2:J:3400:VAL:HG23	2:J:3403:ARG:HE	1.86	0.40
2:J:3684:GLU:H	2:J:3684:GLU:CD	2.30	0.40
2:J:3843:ASP:HB3	2:J:3846:ALA:HB3	2.02	0.40
2:J:4049:VAL:HG12	2:J:4163:PHE:CE2	2.56	0.40
3:C:30:SER:HB3	3:C:99:ARG:HB3	2.04	0.40
3:C:34:MET:HE2	3:C:95:CYS:SG	2.62	0.40
1:H:7:ILE:O	2:G:736:HIS:HA	2.22	0.40
1:H:7:ILE:HA	2:G:719:LEU:HD11	2.03	0.40
2:B:320:LYS:HE2	2:B:347:PHE:CE2	2.56	0.40
2:B:1272:LEU:HD22	2:B:1289:LEU:HD11	2.03	0.40
2:B:3343:GLN:OE1	2:B:3414:ARG:NH1	2.55	0.40
2:B:3593:VAL:HG23	2:B:3594:ARG:HE	1.85	0.40
2:B:3845:ASN:OD1	2:B:3846:ALA:N	2.54	0.40
2:B:3871:GLY:O	2:B:3949:ARG:NH2	2.54	0.40
2:B:3996:PHE:HA	2:B:3999:MET:HG2	2.04	0.40
2:B:4904:PRO:HG3	2:B:4913:ARG:HE	1.85	0.40
2:E:150:MET:HB2	2:E:169:LEU:HD13	2.03	0.40
2:E:424:LYS:HB2	2:E:424:LYS:HE2	1.90	0.40
2:E:453:GLU:HA	2:E:454:PRO:HD3	1.97	0.40
2:E:1639:LEU:HD23	2:E:1653:LEU:HD11	2.02	0.40
2:E:1828:ASP:OD1	2:E:1828:ASP:N	2.54	0.40
2:E:2495:VAL:HG22	2:E:2498:HIS:CD2	2.57	0.40
2:E:3392:LEU:HA	2:E:3395:ARG:HD2	2.02	0.40
2:E:3992:PHE:O	2:E:3996:PHE:HD1	2.04	0.40
2:E:4013:LEU:O	2:E:4017:LEU:HG	2.21	0.40
2:E:4088:ILE:HG23	2:E:4123:ILE:HB	2.03	0.40
2:G:365:LYS:O	2:G:369:LEU:HG	2.21	0.40
2:G:687:ALA:HB2	2:G:780:VAL:HG11	2.03	0.40
2:G:744:VAL:HG22	2:G:759:ILE:HD12	2.02	0.40
2:G:1105:ALA:HB2	2:G:1191:VAL:HG11	2.04	0.40
2:G:1662:PHE:O	2:G:1666:THR:HG23	2.22	0.40
2:J:119:SER:N	2:J:136:GLY:O	2.48	0.40
2:J:179:TYR:CD2	2:J:197:GLN:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:449:ILE:O	2:J:453:GLU:HG3	2.21	0.40
2:J:1247:PRO:HA	2:J:1598:GLN:HA	2.03	0.40
2:J:2495:VAL:HG22	2:J:2498:HIS:CD2	2.56	0.40
2:J:2681:GLY:HA2	2:J:2684:ASP:OD2	2.21	0.40
2:J:3137:LEU:HB3	2:J:3138:PRO:HD3	2.02	0.40
2:J:3833:GLN:O	2:J:3836:MET:HG3	2.22	0.40
2:J:3895:HIS:H	2:J:3970:GLN:NE2	2.19	0.40
2:J:4991:PHE:HE2	2:J:5010:VAL:HG11	1.86	0.40
3:F:22:CYS:O	3:F:77:THR:HA	2.21	0.40
3:F:90:THR:HA	3:F:123:VAL:O	2.22	0.40
3:K:90:THR:HG23	3:K:124:THR:HA	2.03	0.40
2:B:1067:SER:HA	2:B:1070:ASP:HB2	2.03	0.40
2:B:1547:LYS:NZ	2:B:1642:PRO:O	2.54	0.40
2:B:2470:ILE:HD13	2:B:2526:PHE:HE1	1.87	0.40
2:B:2550:LEU:O	2:B:2554:LEU:HG	2.22	0.40
2:B:3051:ARG:HA	2:B:3131:TYR:OH	2.21	0.40
2:B:3384:LYS:NZ	2:B:3386:GLU:HB3	2.36	0.40
2:B:4059:LEU:HD13	2:B:4167:ALA:HB2	2.04	0.40
2:E:531:ARG:NH2	2:E:562:GLU:OE2	2.50	0.40
2:E:996:TRP:CZ3	2:E:1021:LEU:HA	2.57	0.40
2:E:1093:GLU:HB2	2:E:1148:VAL:HG12	2.03	0.40
2:E:1422:ASP:OD1	2:E:1422:ASP:N	2.49	0.40
2:E:2583:LEU:HD13	2:E:2619:LEU:HD23	2.03	0.40
2:E:3032:SER:HB2	2:E:3035:GLU:HG3	2.03	0.40
2:E:3315:LEU:HD22	2:E:3345:ILE:HG12	2.03	0.40
2:E:3791:GLY:H	2:E:3794:VAL:HG12	1.87	0.40
2:E:4049:VAL:HG12	2:E:4163:PHE:CE2	2.56	0.40
2:E:4898:GLY:HA2	2:E:4913:ARG:HH12	1.86	0.40
2:E:4904:PRO:HD3	2:E:4913:ARG:NH2	2.28	0.40
2:G:103:TYR:HA	2:G:150:MET:HG3	2.03	0.40
2:G:179:TYR:CD2	2:G:197:GLN:HB3	2.56	0.40
2:G:220:LEU:HD12	2:G:390:LEU:HB3	2.03	0.40
2:G:552:ASP:OD1	2:G:592:LYS:NZ	2.46	0.40
2:G:3315:LEU:HD22	2:G:3345:ILE:HG12	2.02	0.40
2:G:3986:TRP:CD1	2:G:4047:MET:HB3	2.56	0.40
2:J:320:LYS:HE2	2:J:347:PHE:CE2	2.57	0.40
2:J:1043:VAL:HA	2:J:1046:LEU:HG	2.03	0.40
2:J:1547:LYS:NZ	2:J:1642:PRO:O	2.54	0.40
2:J:1662:PHE:O	2:J:1666:THR:HG23	2.22	0.40
2:J:2762:THR:HA	2:J:2765:LYS:NZ	2.37	0.40
2:J:3511:VAL:O	2:J:3515:LYS:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3845:ASN:OD1	2:J:3846:ALA:N	2.54	0.40
2:J:3992:PHE:O	2:J:3996:PHE:HD1	2.04	0.40
2:J:3996:PHE:HA	2:J:3999:MET:HG2	2.04	0.40
2:J:4968:PHE:O	2:J:4974:GLY:HA3	2.22	0.40
3:C:39:GLN:OE1	3:C:45:ARG:HB2	2.22	0.40
3:M:90:THR:HA	3:M:123:VAL:O	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
1	D	105/107 (98%)	100 (95%)	5 (5%)	0	100	100
1	H	105/107 (98%)	100 (95%)	5 (5%)	0	100	100
1	I	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	B	4280/5027 (85%)	4144 (97%)	136 (3%)	0	100	100
2	E	4280/5027 (85%)	4142 (97%)	138 (3%)	0	100	100
2	G	4280/5027 (85%)	4142 (97%)	138 (3%)	0	100	100
2	J	4280/5027 (85%)	4140 (97%)	140 (3%)	0	100	100
3	C	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
3	F	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
3	K	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
3	M	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
All	All	18036/21084 (86%)	17434 (97%)	602 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	88/88 (100%)	88 (100%)	0	100	100
1	D	88/88 (100%)	88 (100%)	0	100	100
1	H	88/88 (100%)	88 (100%)	0	100	100
1	I	88/88 (100%)	88 (100%)	0	100	100
2	B	3672/4270 (86%)	3672 (100%)	0	100	100
2	E	3672/4270 (86%)	3672 (100%)	0	100	100
2	G	3674/4270 (86%)	3673 (100%)	1 (0%)	100	100
2	J	3672/4270 (86%)	3672 (100%)	0	100	100
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	15458/17888 (86%)	15457 (100%)	1 (0%)	100	100

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	G	377	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (155) such sidechains are listed below:

Mol	Chain	Res	Type
1	I	31	GLN
2	B	308	HIS
2	B	473	ASN
2	B	647	ASN
2	B	812	HIS
2	B	877	ASN
2	B	923	GLN
2	B	938	HIS

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Mol	Chain	Res	Type
2	B	963	ASN
2	B	993	HIS
2	B	1035	ASN
2	B	1482	ASN
2	B	1563	GLN
2	B	1590	GLN
2	B	1972	ASN
2	B	2005	GLN
2	B	2180	GLN
2	B	2194	HIS
2	B	2253	HIS
2	B	2498	HIS
2	B	2881	ASN
2	B	3146	HIS
2	B	3700	GLN
2	B	3704	HIS
2	B	3806	ASN
2	B	3837	GLN
2	B	3860	ASN
2	B	3889	GLN
2	B	3895	HIS
2	B	3909	ASN
2	B	3960	GLN
2	B	3970	GLN
2	B	3998	HIS
2	B	4142	ASN
2	B	4626	ASN
2	B	4949	GLN
2	E	473	ASN
2	E	647	ASN
2	E	678	GLN
2	E	812	HIS
2	E	877	ASN
2	E	923	GLN
2	E	938	HIS
2	E	963	ASN
2	E	993	HIS
2	E	1035	ASN
2	E	1563	GLN
2	E	1972	ASN
2	E	2005	GLN
2	E	2180	GLN

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Mol	Chain	Res	Type
2	E	2194	HIS
2	E	2253	HIS
2	E	2498	HIS
2	E	2881	ASN
2	E	3146	HIS
2	E	3343	GLN
2	E	3700	GLN
2	E	3704	HIS
2	E	3771	HIS
2	E	3806	ASN
2	E	3837	GLN
2	E	3860	ASN
2	E	3889	GLN
2	E	3895	HIS
2	E	3909	ASN
2	E	3970	GLN
2	E	4043	GLN
2	E	4142	ASN
2	E	4626	ASN
2	E	4949	GLN
2	G	473	ASN
2	G	647	ASN
2	G	812	HIS
2	G	877	ASN
2	G	923	GLN
2	G	938	HIS
2	G	963	ASN
2	G	993	HIS
2	G	1035	ASN
2	G	1482	ASN
2	G	1563	GLN
2	G	1590	GLN
2	G	1972	ASN
2	G	2005	GLN
2	G	2180	GLN
2	G	2194	HIS
2	G	2253	HIS
2	G	2498	HIS
2	G	2881	ASN
2	G	3146	HIS
2	G	3343	GLN
2	G	3700	GLN

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Mol	Chain	Res	Type
2	G	3704	HIS
2	G	3806	ASN
2	G	3837	GLN
2	G	3860	ASN
2	G	3889	GLN
2	G	3895	HIS
2	G	3909	ASN
2	G	3960	GLN
2	G	3970	GLN
2	G	3998	HIS
2	G	4043	GLN
2	G	4142	ASN
2	G	4204	GLN
2	G	4626	ASN
2	G	4949	GLN
2	J	473	ASN
2	J	647	ASN
2	J	812	HIS
2	J	877	ASN
2	J	923	GLN
2	J	938	HIS
2	J	963	ASN
2	J	993	HIS
2	J	1035	ASN
2	J	1563	GLN
2	J	1972	ASN
2	J	2005	GLN
2	J	2180	GLN
2	J	2194	HIS
2	J	2253	HIS
2	J	2881	ASN
2	J	3146	HIS
2	J	3343	GLN
2	J	3700	GLN
2	J	3704	HIS
2	J	3806	ASN
2	J	3860	ASN
2	J	3889	GLN
2	J	3909	ASN
2	J	3970	GLN
2	J	3998	HIS
2	J	4043	GLN

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Mol	Chain	Res	Type
2	J	4142	ASN
2	J	4204	GLN
2	J	4949	GLN
3	C	3	GLN
3	C	5	GLN
3	C	73	ASN
3	C	111	ASN
3	F	3	GLN
3	F	5	GLN
3	F	73	ASN
3	F	111	ASN
3	K	3	GLN
3	K	5	GLN
3	K	73	ASN
3	K	105	ASN
3	K	111	ASN
3	M	3	GLN
3	M	5	GLN
3	M	73	ASN
3	M	105	ASN
3	M	111	ASN

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
5	ATP	E	5102	-	32,33,33	0.26	0	48,52,52	0.33	0
5	ATP	B	5102	-	32,33,33	0.26	0	48,52,52	0.33	0
6	CFF	G	5103	-	15,15,15	0.49	0	23,23,23	0.69	1 (4%)
6	CFF	J	5103	-	15,15,15	0.49	0	23,23,23	0.69	1 (4%)
5	ATP	G	5102	-	32,33,33	0.27	0	48,52,52	0.34	0
5	ATP	J	5102	-	32,33,33	0.27	0	48,52,52	0.33	0
6	CFF	B	5103	-	15,15,15	0.49	0	23,23,23	0.68	1 (4%)
6	CFF	E	5103	-	15,15,15	0.48	0	23,23,23	0.68	1 (4%)

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
5	ATP	E	5102	-	-	7/22/38/38	0/3/3/3
5	ATP	B	5102	-	-	7/22/38/38	0/3/3/3
6	CFF	G	5103	-	-	-	0/2/2/2
6	CFF	J	5103	-	-	-	0/2/2/2
5	ATP	G	5102	-	-	7/22/38/38	0/3/3/3
5	ATP	J	5102	-	-	7/22/38/38	0/3/3/3
6	CFF	B	5103	-	-	-	0/2/2/2
6	CFF	E	5103	-	-	-	0/2/2/2

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	5103	CFF	C12-N3-C2	2.23	121.22	117.33
6	J	5103	CFF	C12-N3-C2	2.23	121.22	117.33
6	B	5103	CFF	C12-N3-C2	2.21	121.18	117.33
6	E	5103	CFF	C12-N3-C2	2.20	121.16	117.33

There are no chirality outliers.

All (28) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	5102	ATP	C5'-O5'-PA-O1A
5	B	5102	ATP	C5'-O5'-PA-O2A
5	B	5102	ATP	C5'-O5'-PA-O3A
5	E	5102	ATP	C5'-O5'-PA-O1A
5	E	5102	ATP	C5'-O5'-PA-O2A
5	E	5102	ATP	C5'-O5'-PA-O3A
5	G	5102	ATP	C5'-O5'-PA-O1A
5	G	5102	ATP	C5'-O5'-PA-O2A
5	G	5102	ATP	C5'-O5'-PA-O3A
5	J	5102	ATP	C5'-O5'-PA-O1A
5	J	5102	ATP	C5'-O5'-PA-O2A
5	J	5102	ATP	C5'-O5'-PA-O3A
5	B	5102	ATP	C4'-C5'-O5'-PA
5	E	5102	ATP	C4'-C5'-O5'-PA
5	G	5102	ATP	C4'-C5'-O5'-PA
5	J	5102	ATP	C4'-C5'-O5'-PA
5	B	5102	ATP	O4'-C1'-N9-C4
5	E	5102	ATP	O4'-C1'-N9-C4
5	G	5102	ATP	O4'-C1'-N9-C4
5	J	5102	ATP	O4'-C1'-N9-C4
5	B	5102	ATP	O4'-C1'-N9-C8
5	E	5102	ATP	O4'-C1'-N9-C8
5	G	5102	ATP	O4'-C1'-N9-C8
5	J	5102	ATP	O4'-C1'-N9-C8
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'

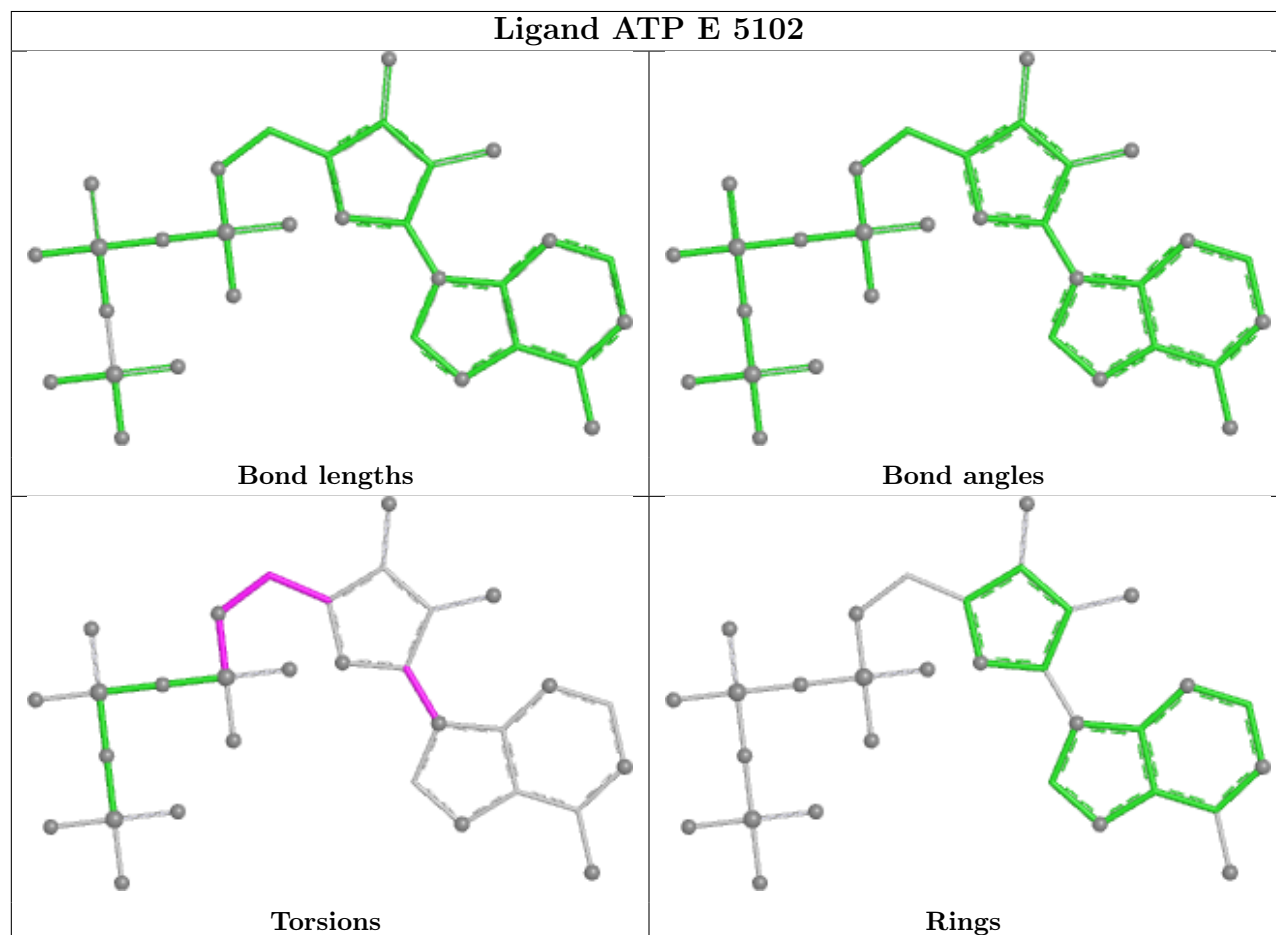
There are no ring outliers.

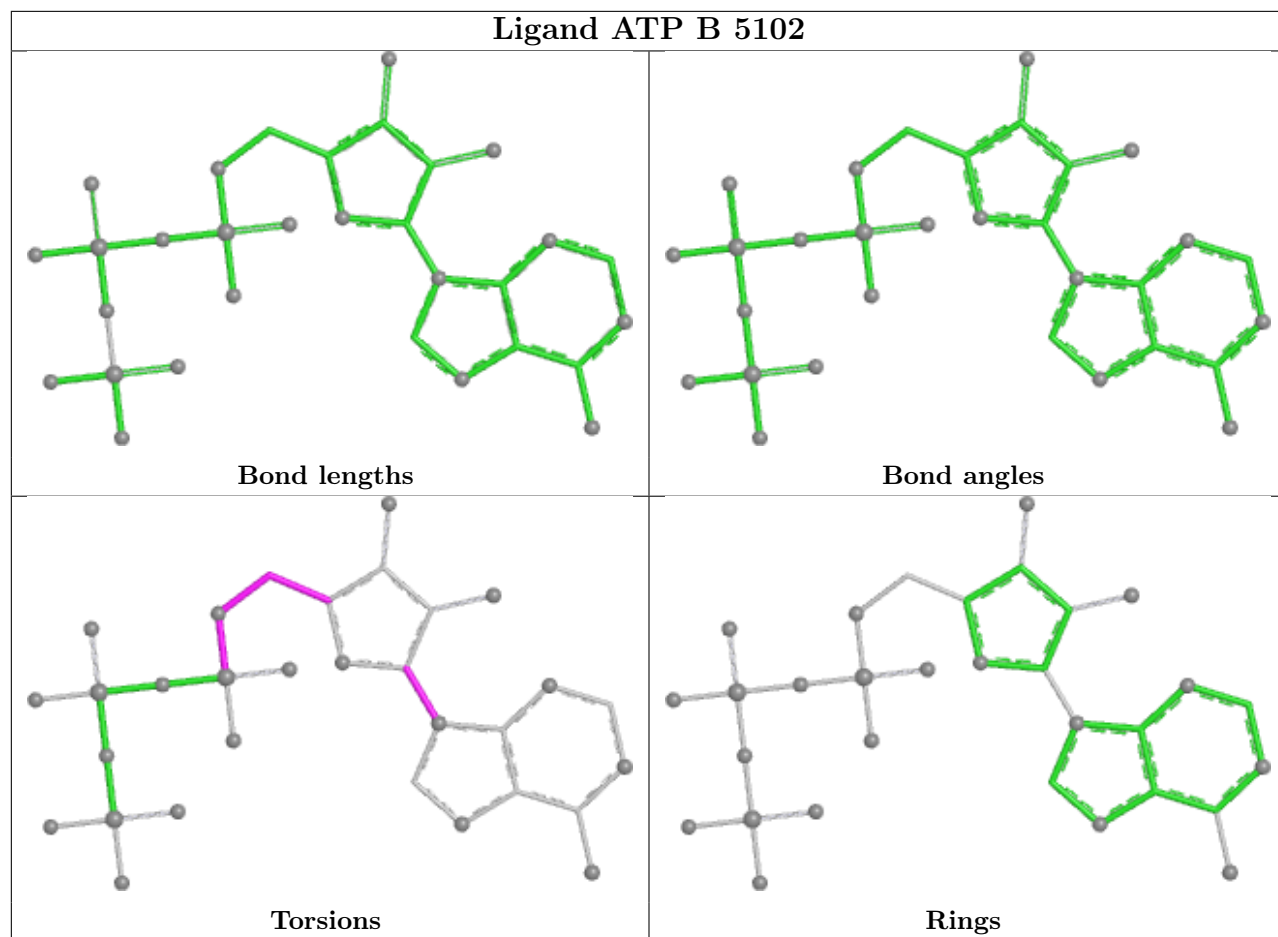
4 monomers are involved in 4 short contacts:

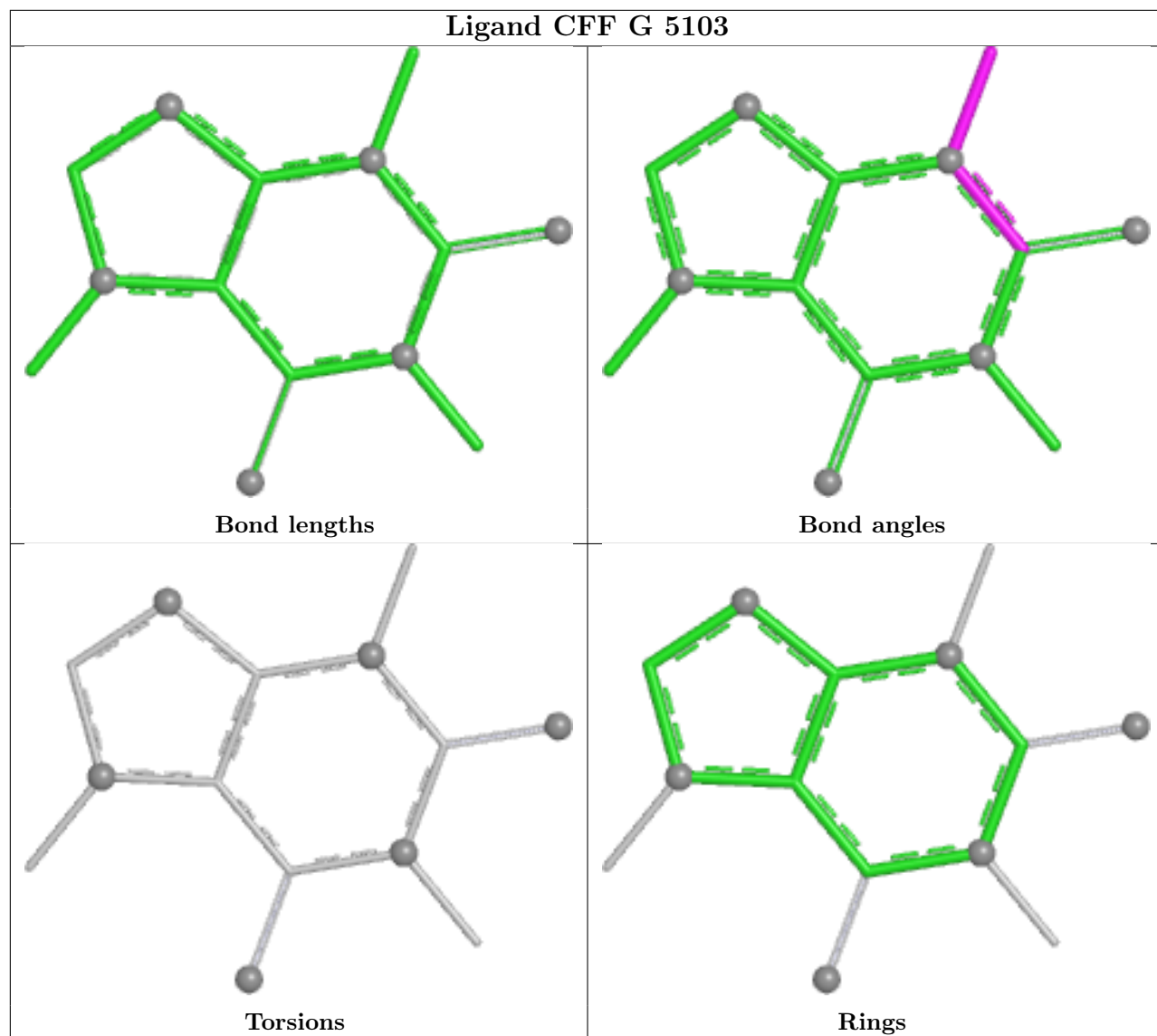
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	E	5102	ATP	1	0
5	B	5102	ATP	1	0
5	G	5102	ATP	1	0
5	J	5102	ATP	1	0

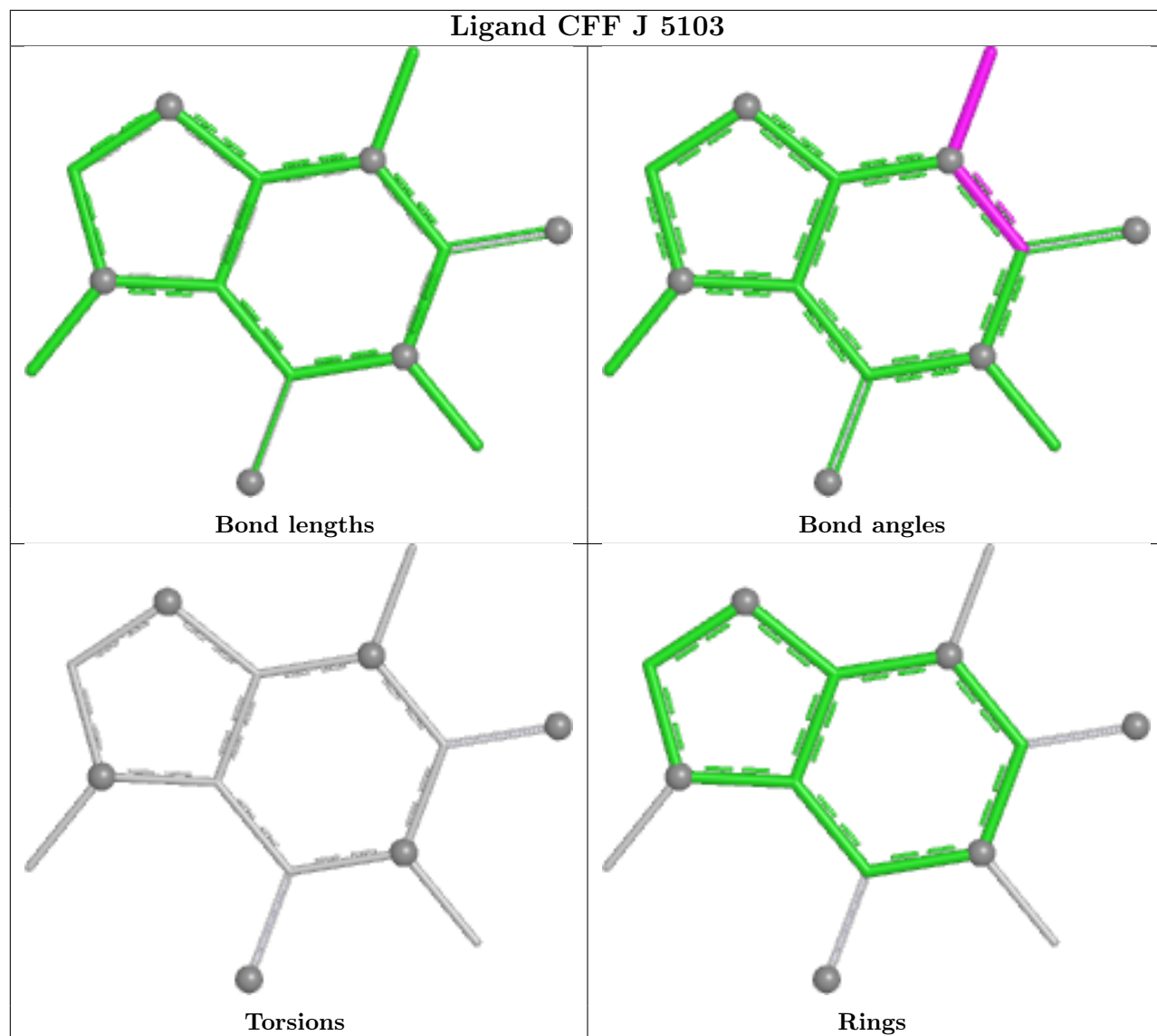
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

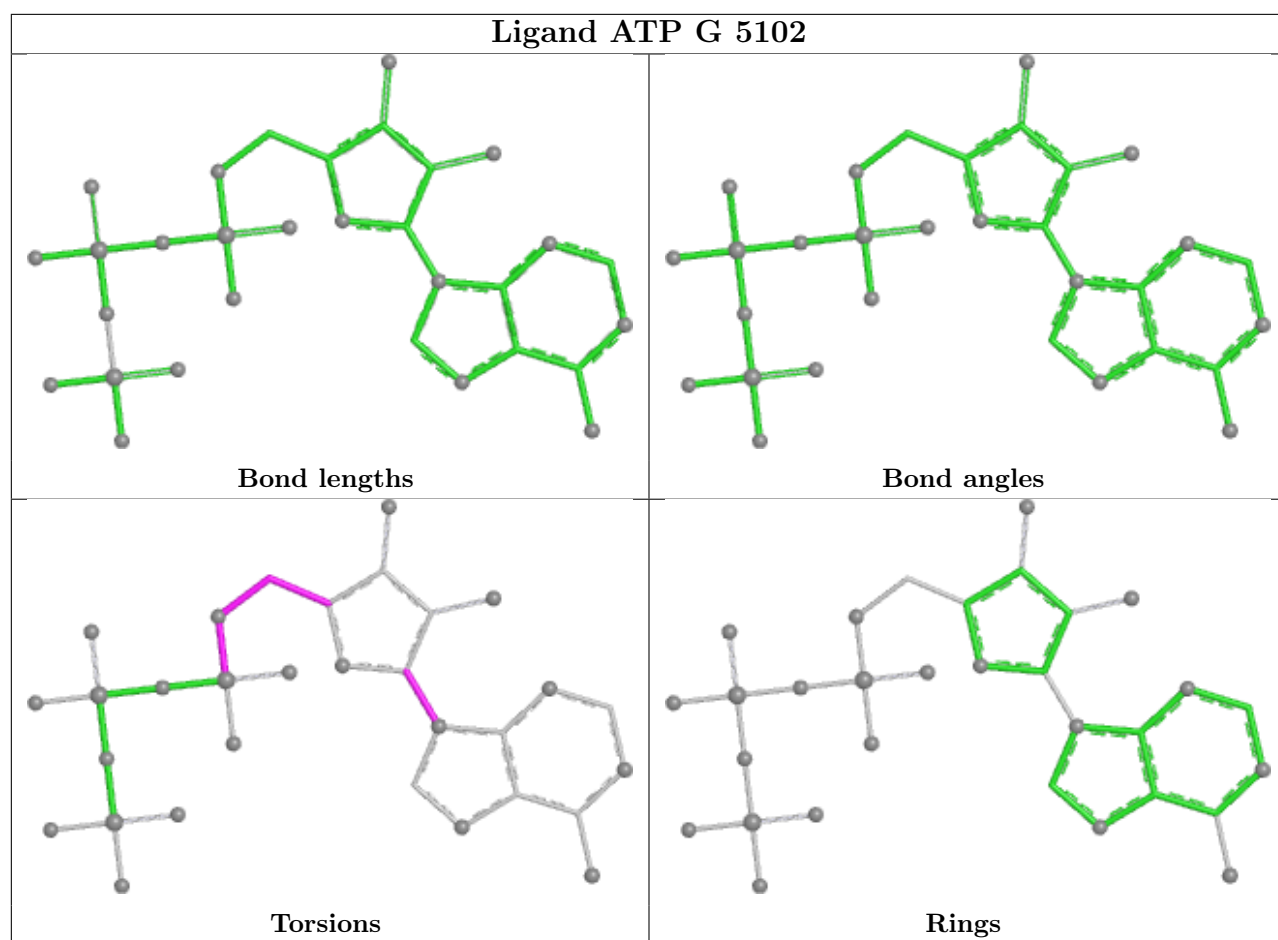
Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD 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.

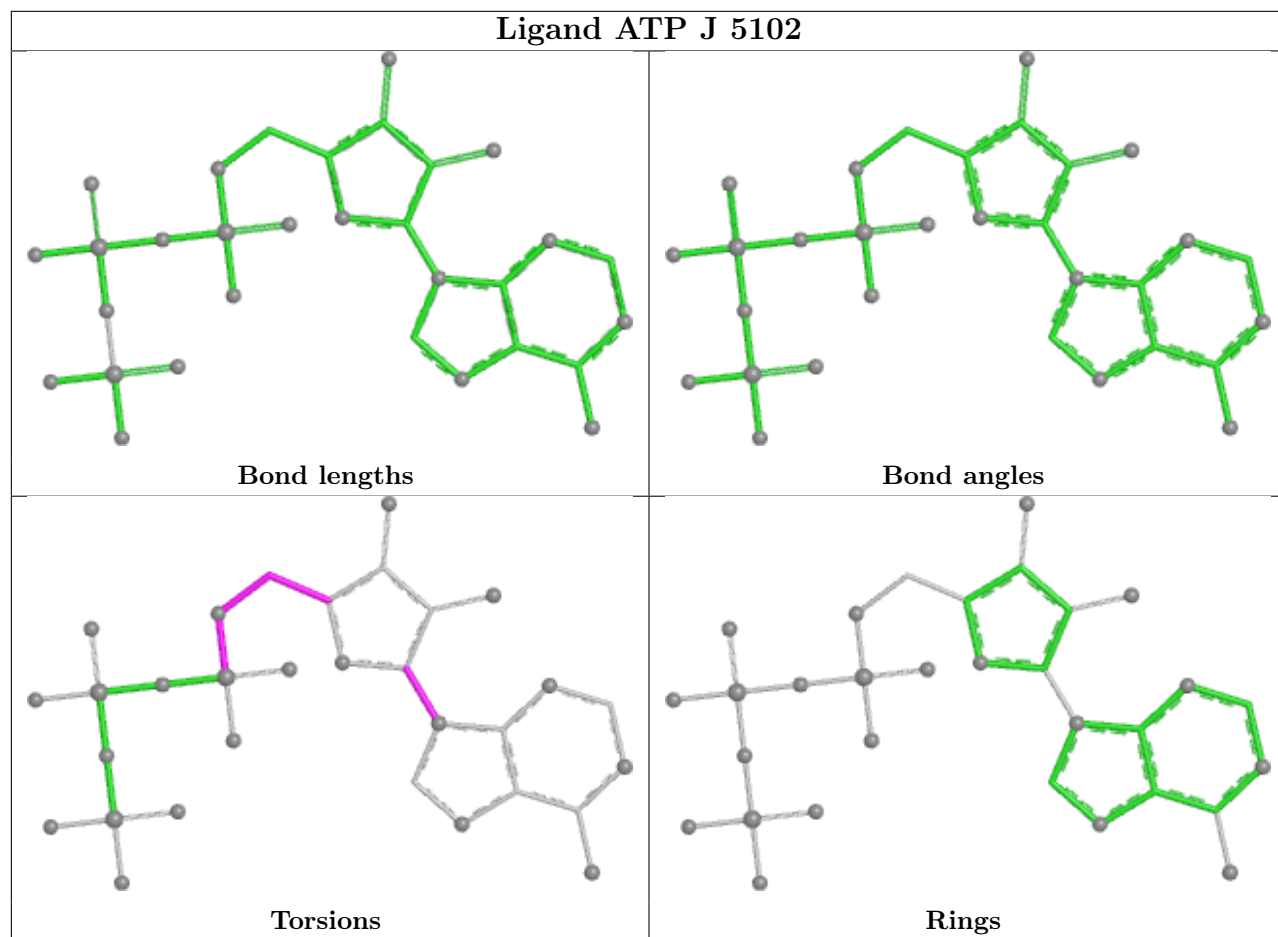


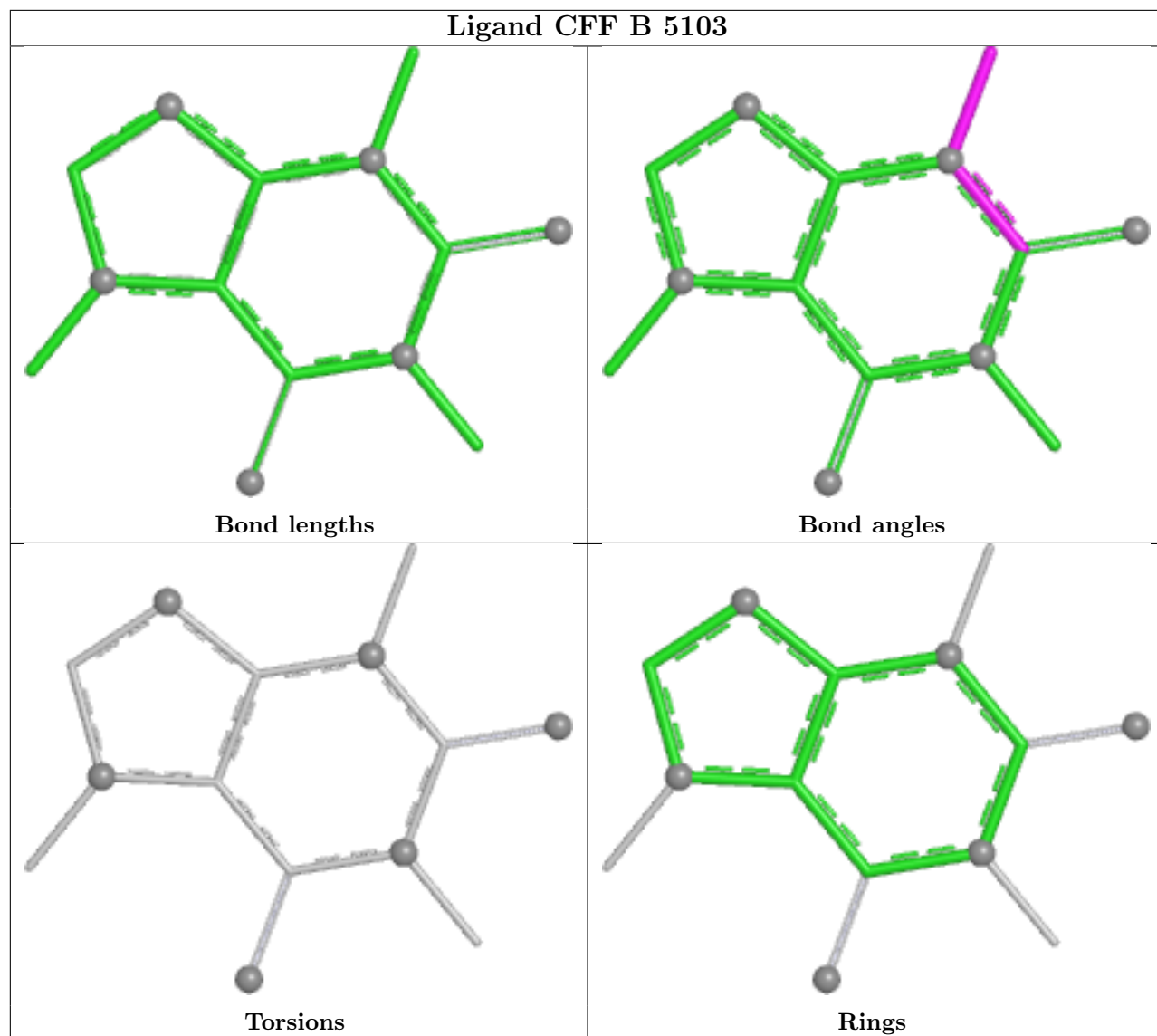


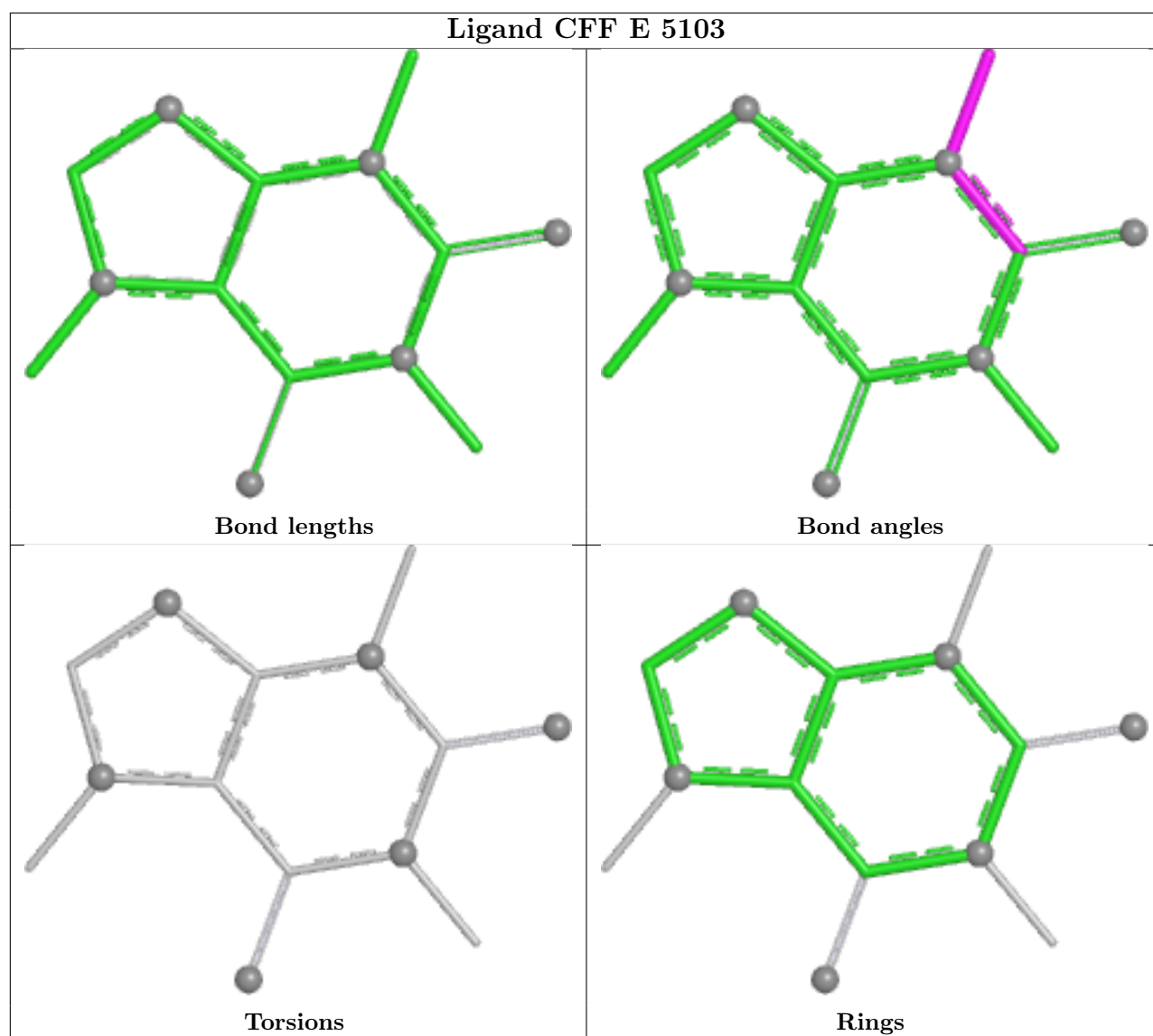












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

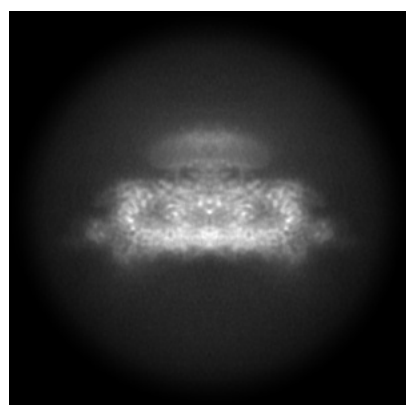
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19465. These allow visual inspection of the internal detail of the map and identification of artifacts.

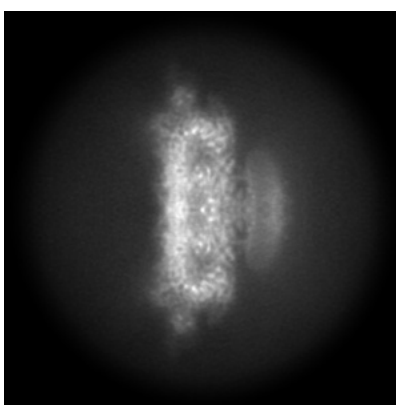
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

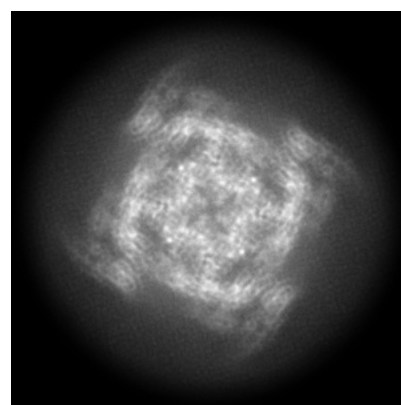
6.1.1 Primary map



X



Y

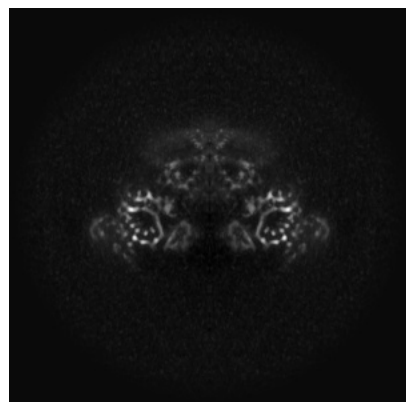


Z

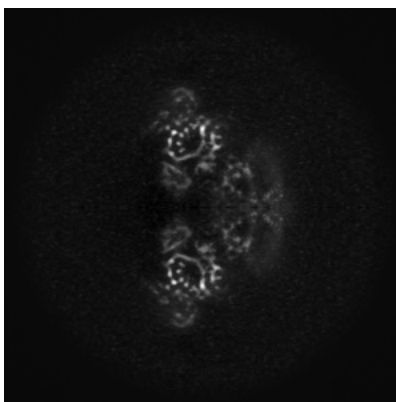
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

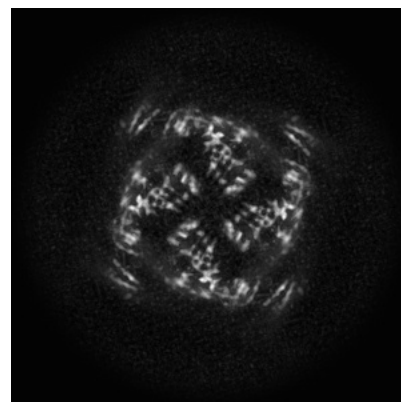
6.2.1 Primary map



X Index: 168



Y Index: 168

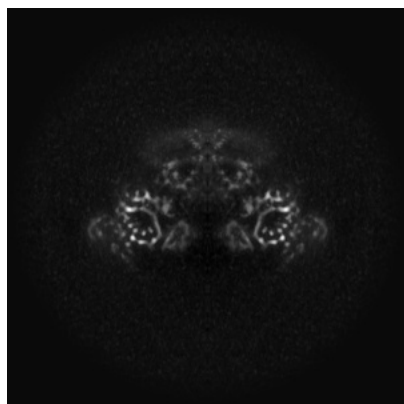


Z Index: 168

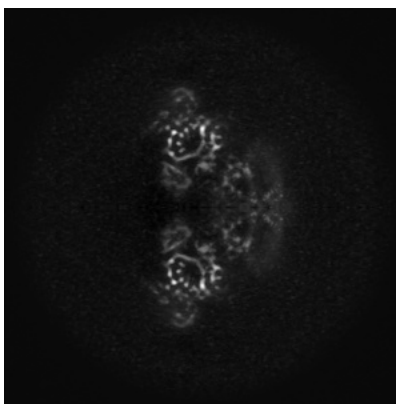
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

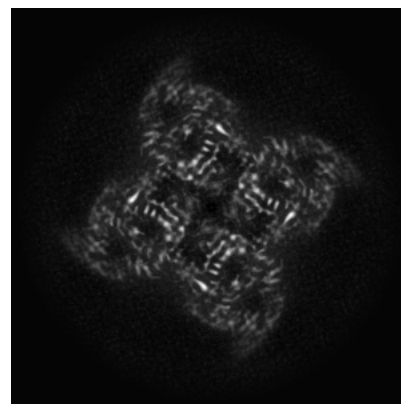
6.3.1 Primary map



X Index: 168



Y Index: 168

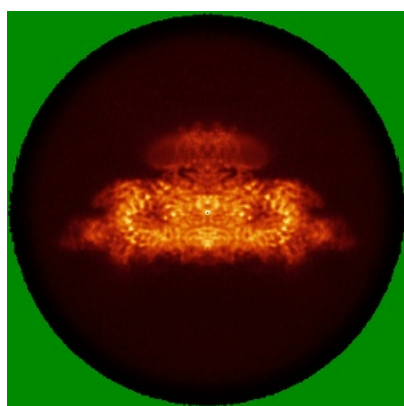


Z Index: 145

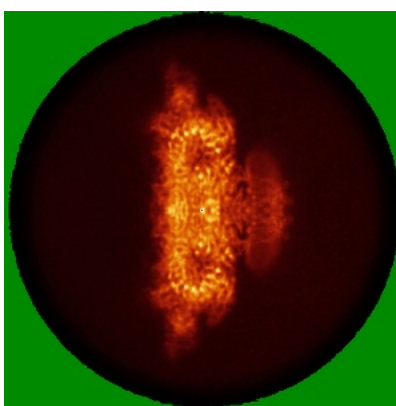
The images above show the largest variance slices of the map in three orthogonal directions.

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

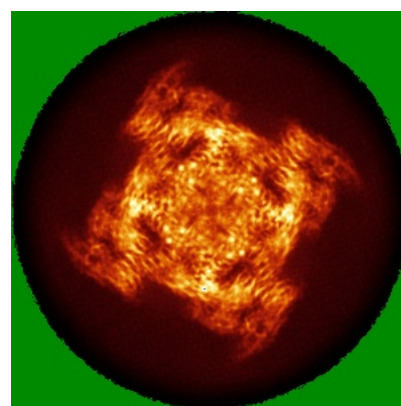
6.4.1 Primary map



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



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.2. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

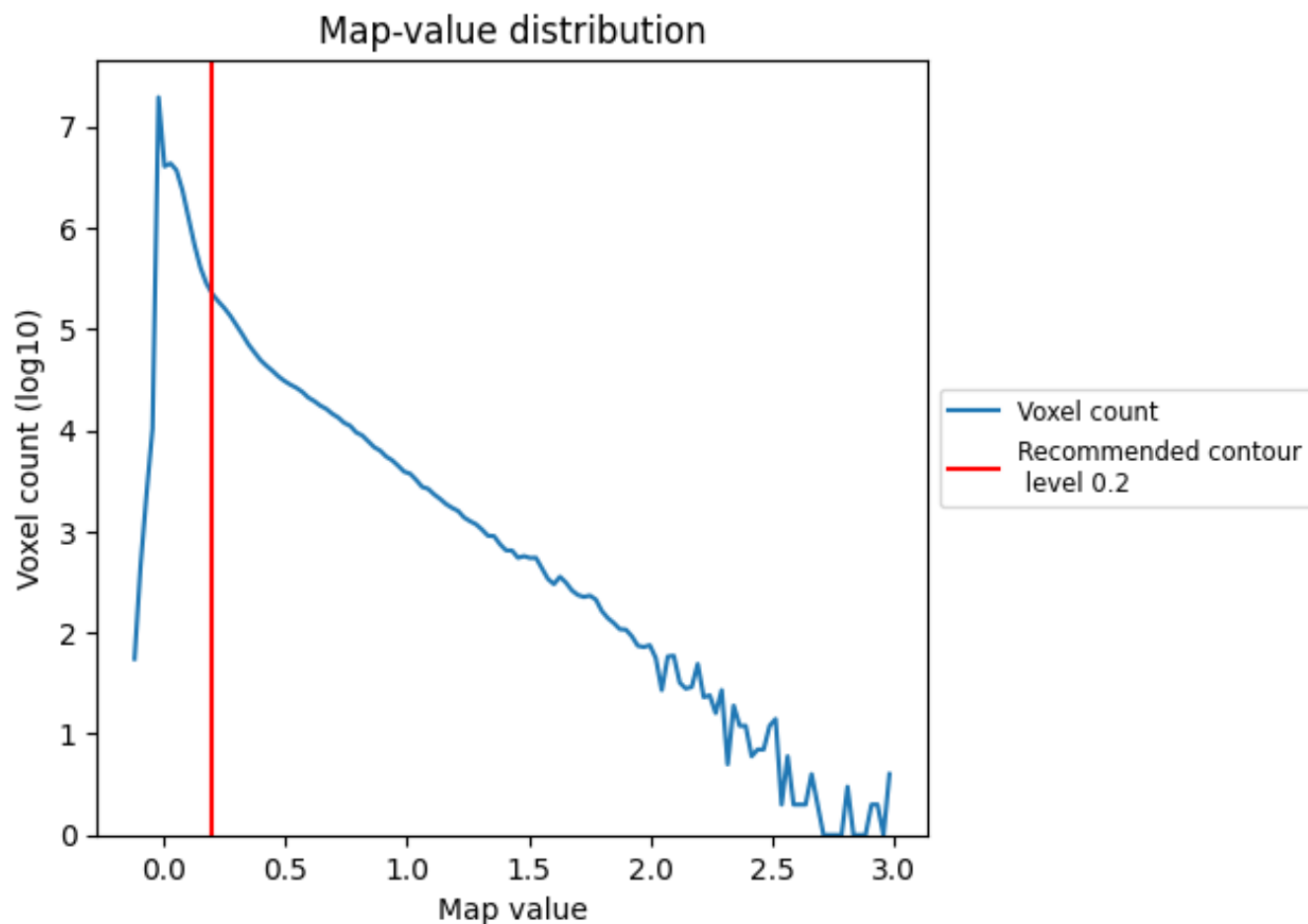
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

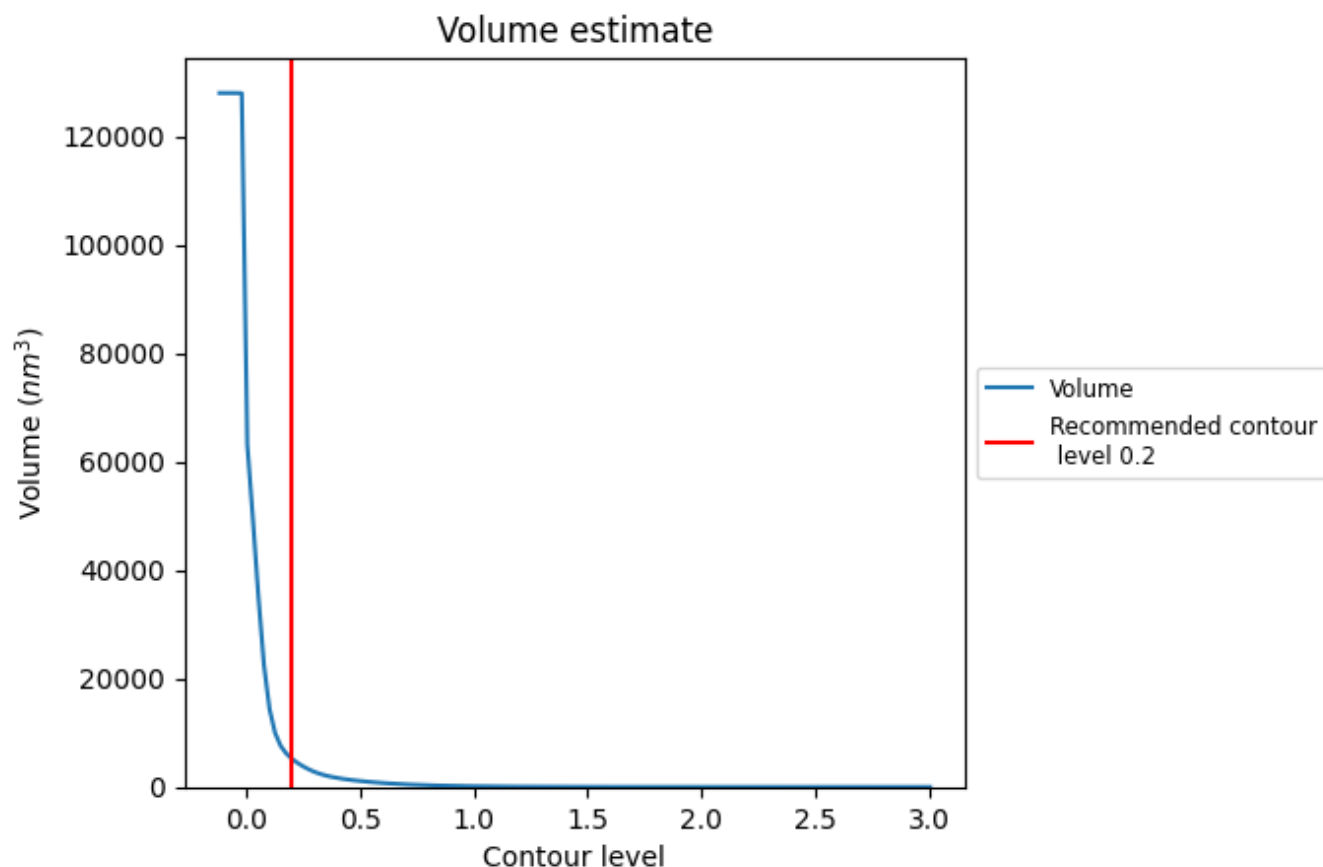
This section contains the results of statistical analysis of the map.

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.

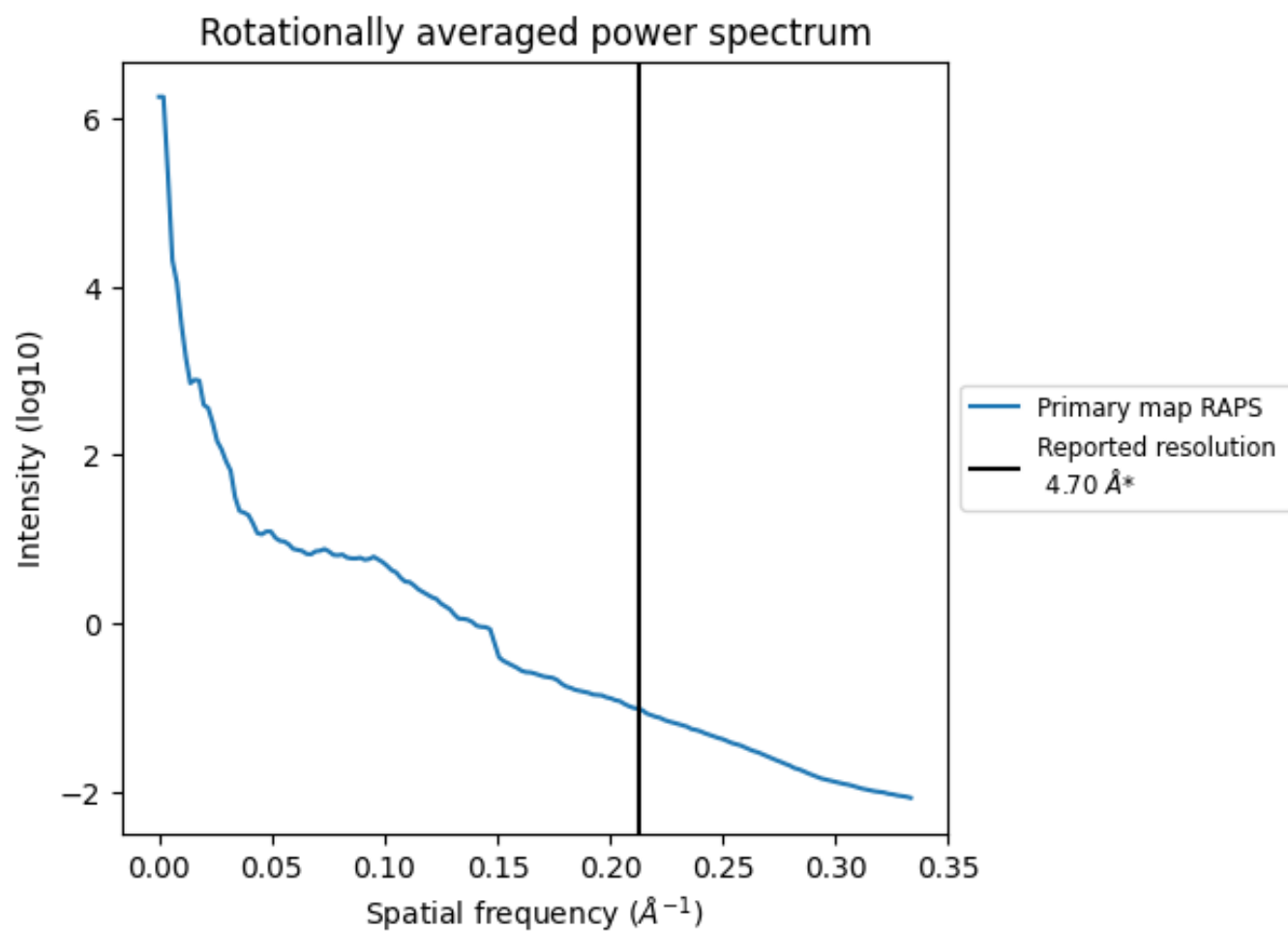
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 5220 nm^3 ; this corresponds to an approximate mass of 4715 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

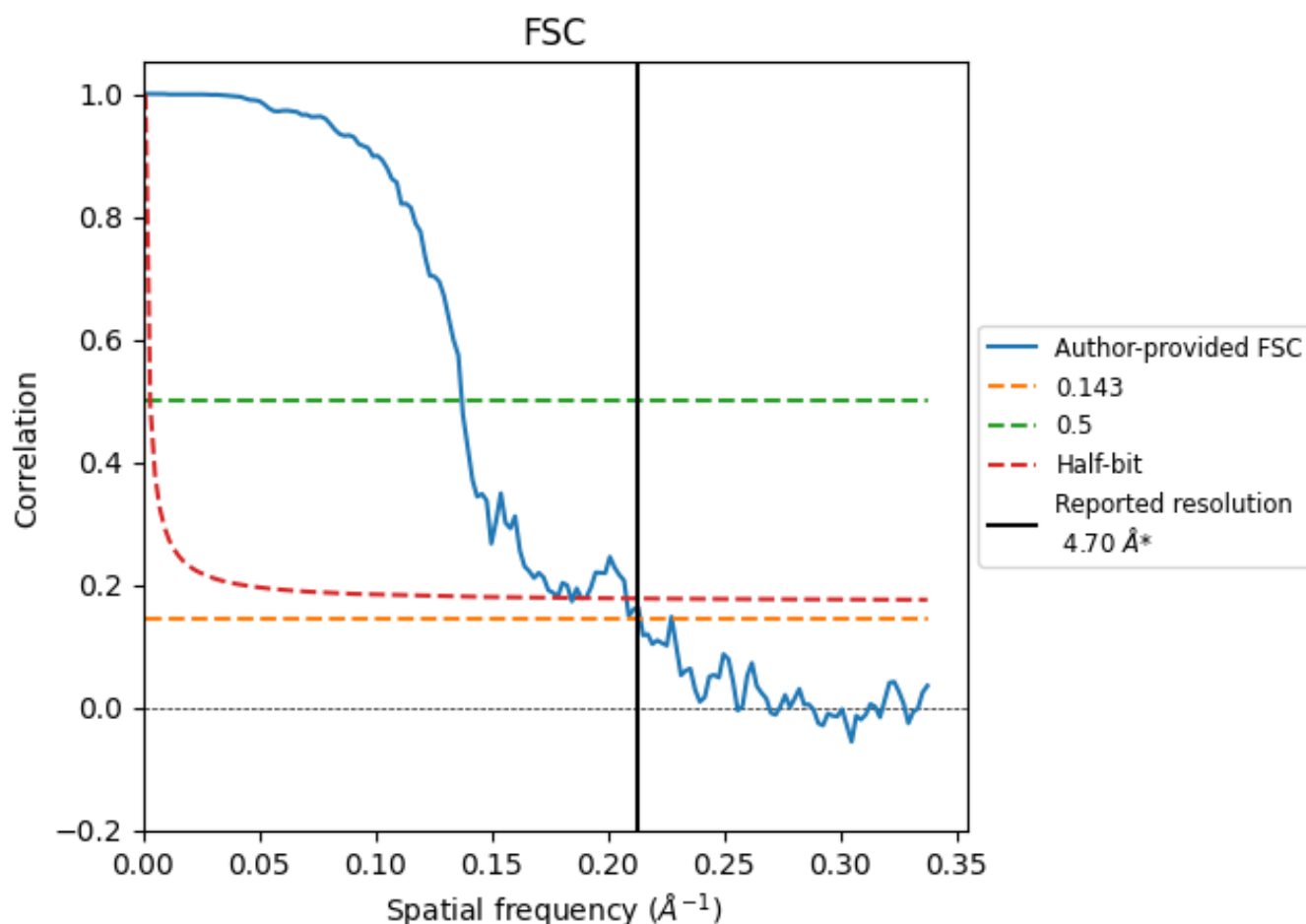


*Reported resolution corresponds to spatial frequency of 0.213 Å⁻¹

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 0.213 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

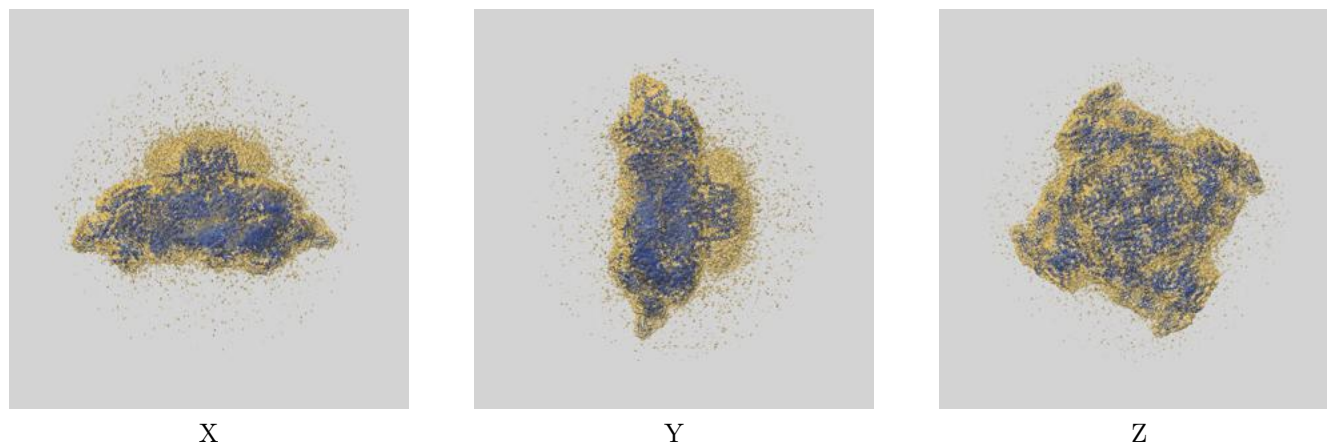
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.70	-	-
Author-provided FSC curve	4.68	7.29	5.43
Unmasked-calculated*	-	-	-

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

9 Map-model fit [i](#)

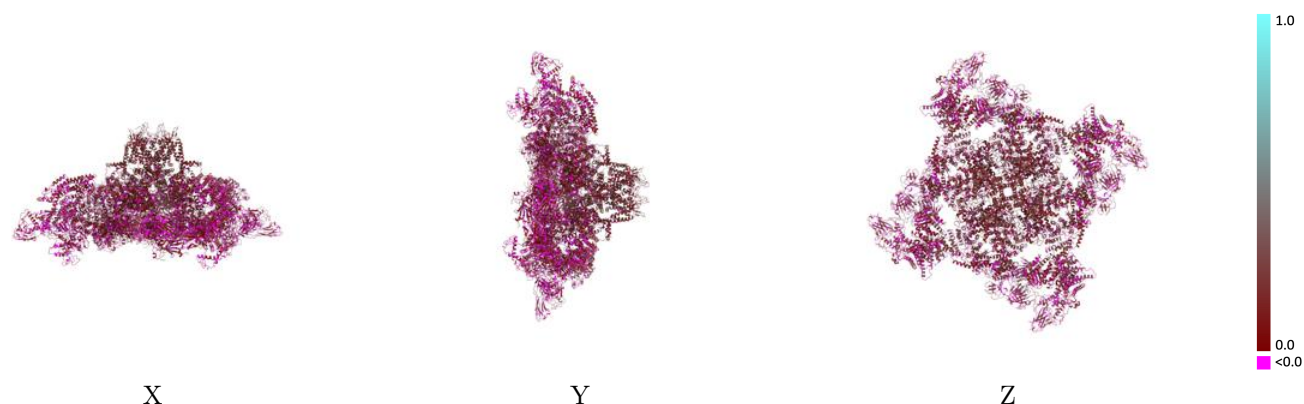
This section contains information regarding the fit between EMDB map EMD-19465 and PDB model 8RRU. Per-residue inclusion information can be found in section [3](#) on page [8](#).

9.1 Map-model overlay [i](#)



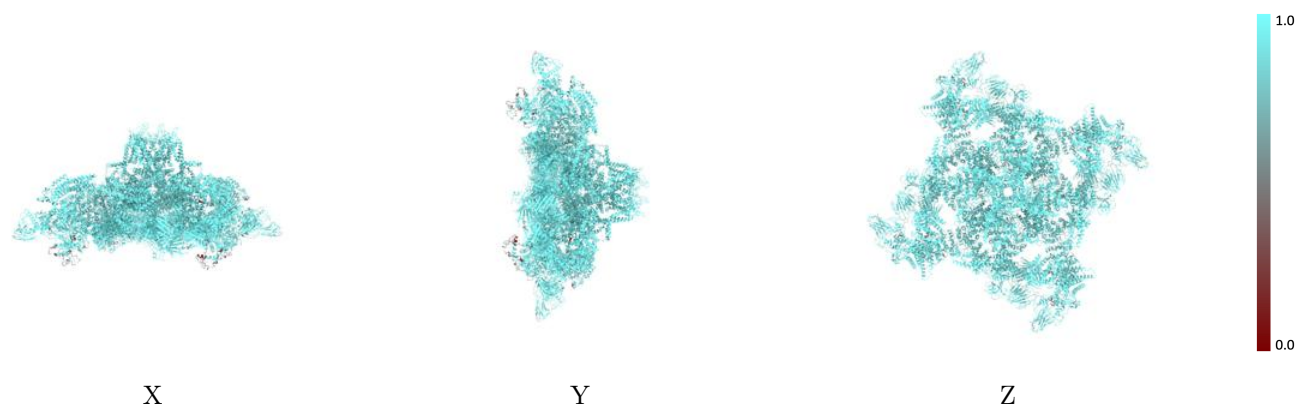
The images above show the 3D surface view of the map at the recommended contour level 0.2 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



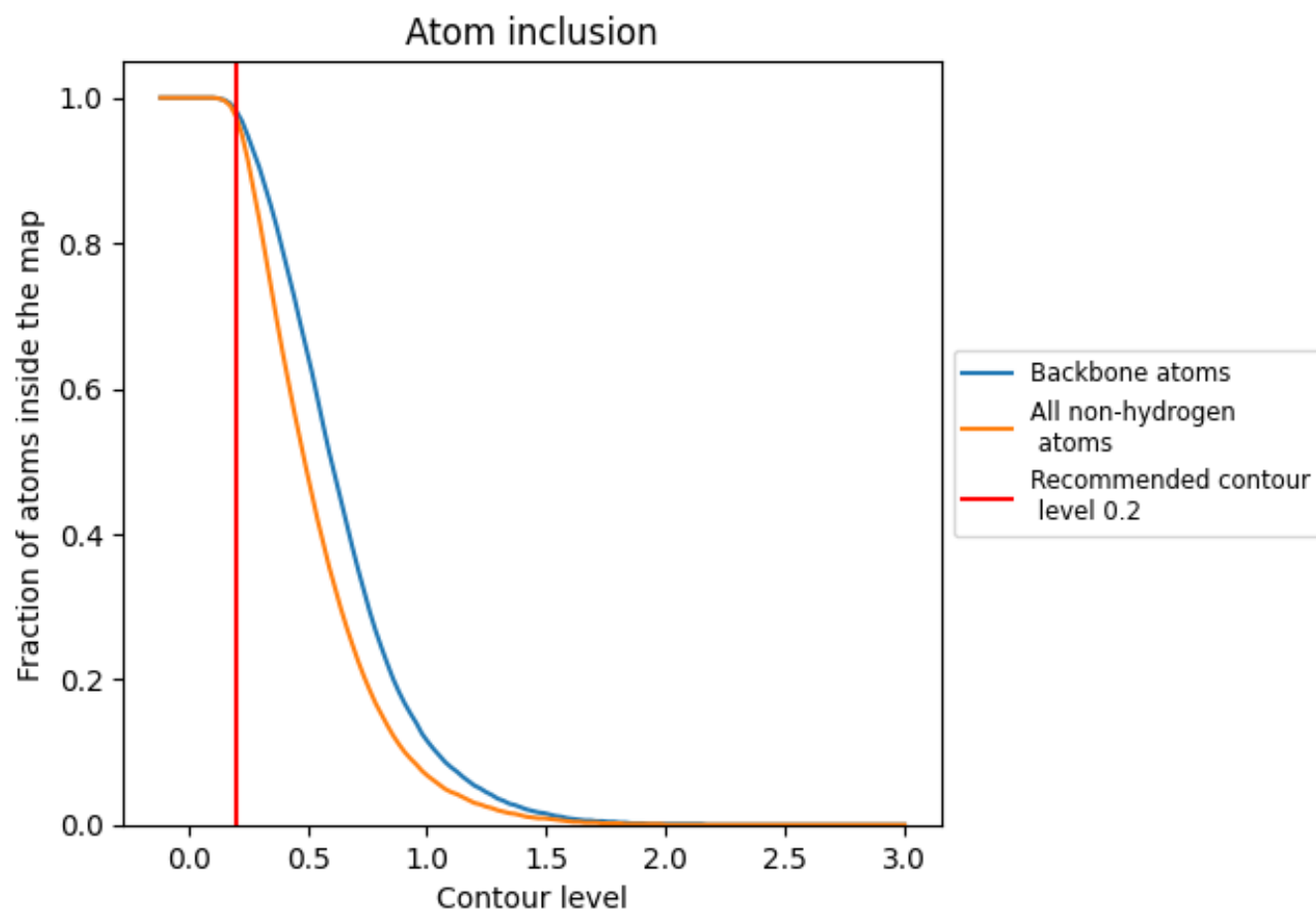
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.2).

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 (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9740	 0.1100
A	 0.9860	 0.0460
B	 0.9760	 0.1140
C	 0.9180	 0.0580
D	 0.9860	 0.0440
E	 0.9760	 0.1130
F	 0.9190	 0.0590
G	 0.9760	 0.1140
H	 0.9880	 0.0460
I	 0.9850	 0.0440
J	 0.9760	 0.1140
K	 0.9160	 0.0570
M	 0.9270	 0.0610

