



Full wwPDB EM Validation Report ⓘ

Nov 7, 2022 – 07:03 PM EST

PDB ID : 6MU1
EMDB ID : EMD-9243
Title : Structure of full-length IP3R1 channel bound with Adenophostin A
Authors : Serysheva, I.I.; Fan, G.; Baker, M.R.; Wang, Z.; Seryshev, A.; Ludtke, S.J.;
Baker, M.L.
Deposited on : 2018-10-22
Resolution : 4.10 Å(reported)

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

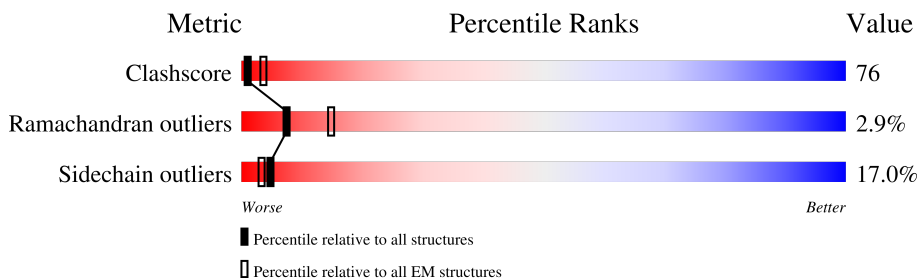
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	2739	
1	B	2739	
1	C	2739	
1	D	2739	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	JYP	A	2801	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	JYP	B	2801	-	-	X	-
2	JYP	C	2801	-	-	X	-
2	JYP	D	2801	-	-	X	-

2 Entry composition [\(i\)](#)

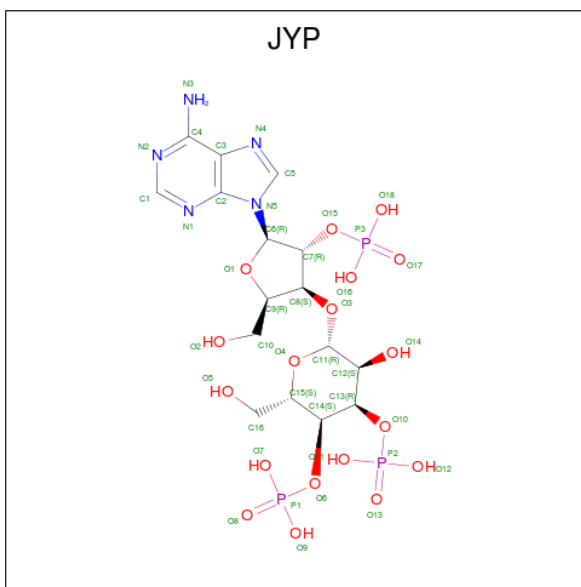
There are 2 unique types of molecules in this entry. The entry contains 50184 atoms, of which 20 are hydrogens and 0 are deuteriums.

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 Inositol 1,4,5-trisphosphate receptor type 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		
1	C	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		
1	B	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		
1	D	2149	Total	C	N	O	S	0	0
			12499	7356	2487	2612	44		

- Molecule 2 is Adenophostin A (three-letter code: JYP) (formula: $C_{16}H_{26}N_5O_{18}P_3$).



Mol	Chain	Residues	Atoms					AltConf	
			Total	C	H	N	O		P
2	A	1	Total	C	H	N	O	P	0
			47	16	5	5	18	3	
2	C	1	Total	C	H	N	O	P	0
			47	16	5	5	18	3	
2	B	1	Total	C	H	N	O	P	0
			47	16	5	5	18	3	

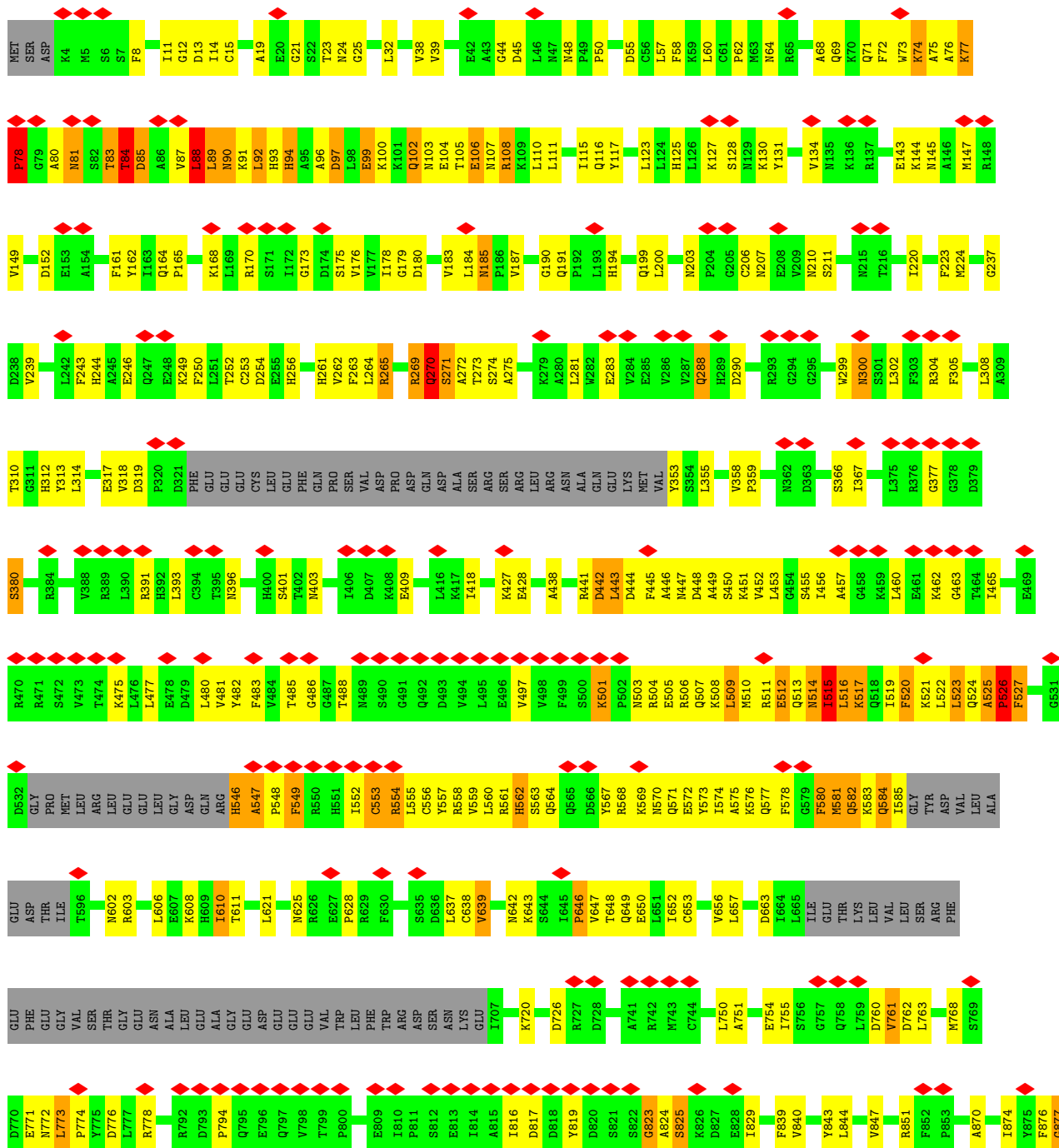
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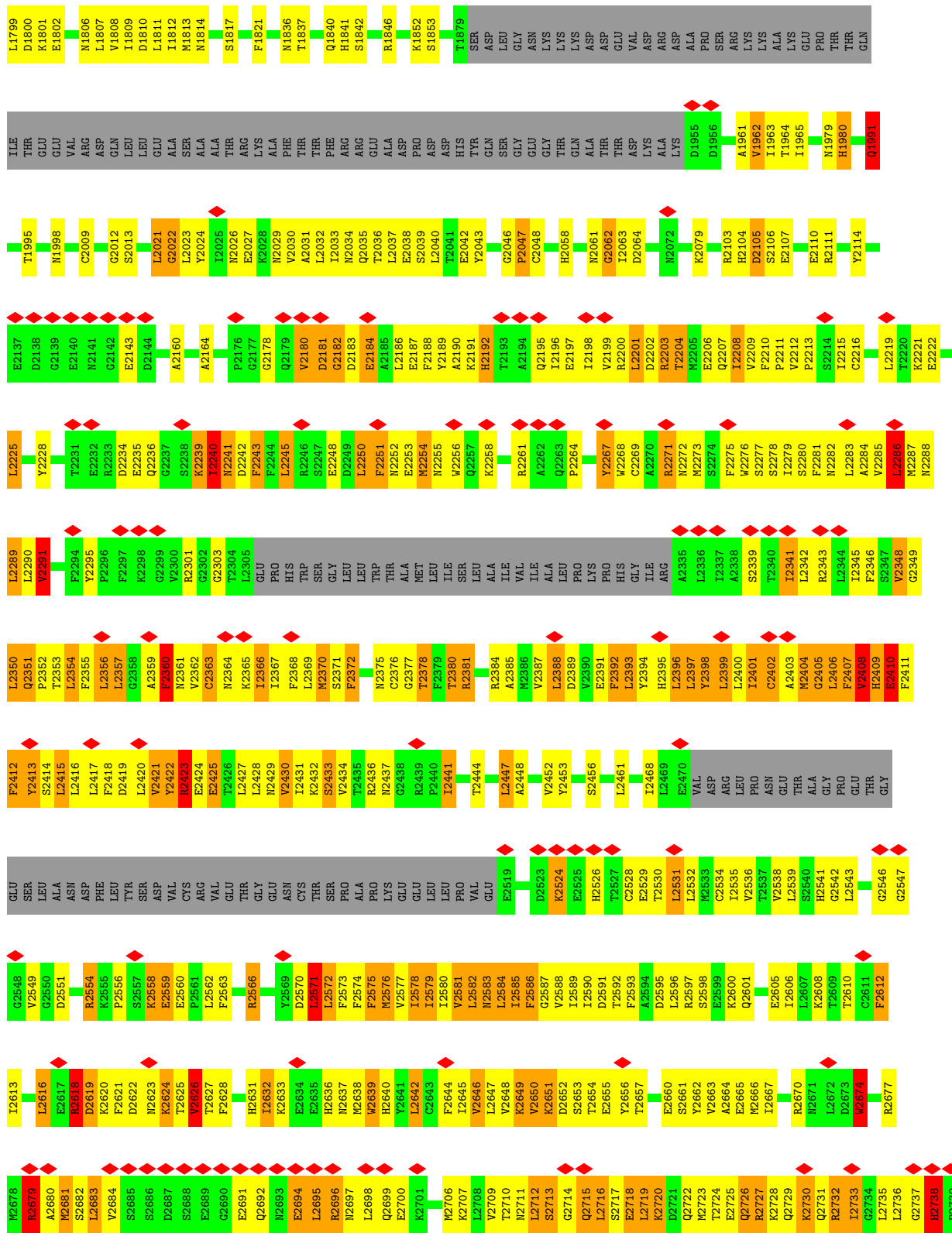
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Mol	Chain	Residues	Atoms					AltConf	
			Total	C	H	N	O		P
2	D	1	47	16	5	5	18	3	0



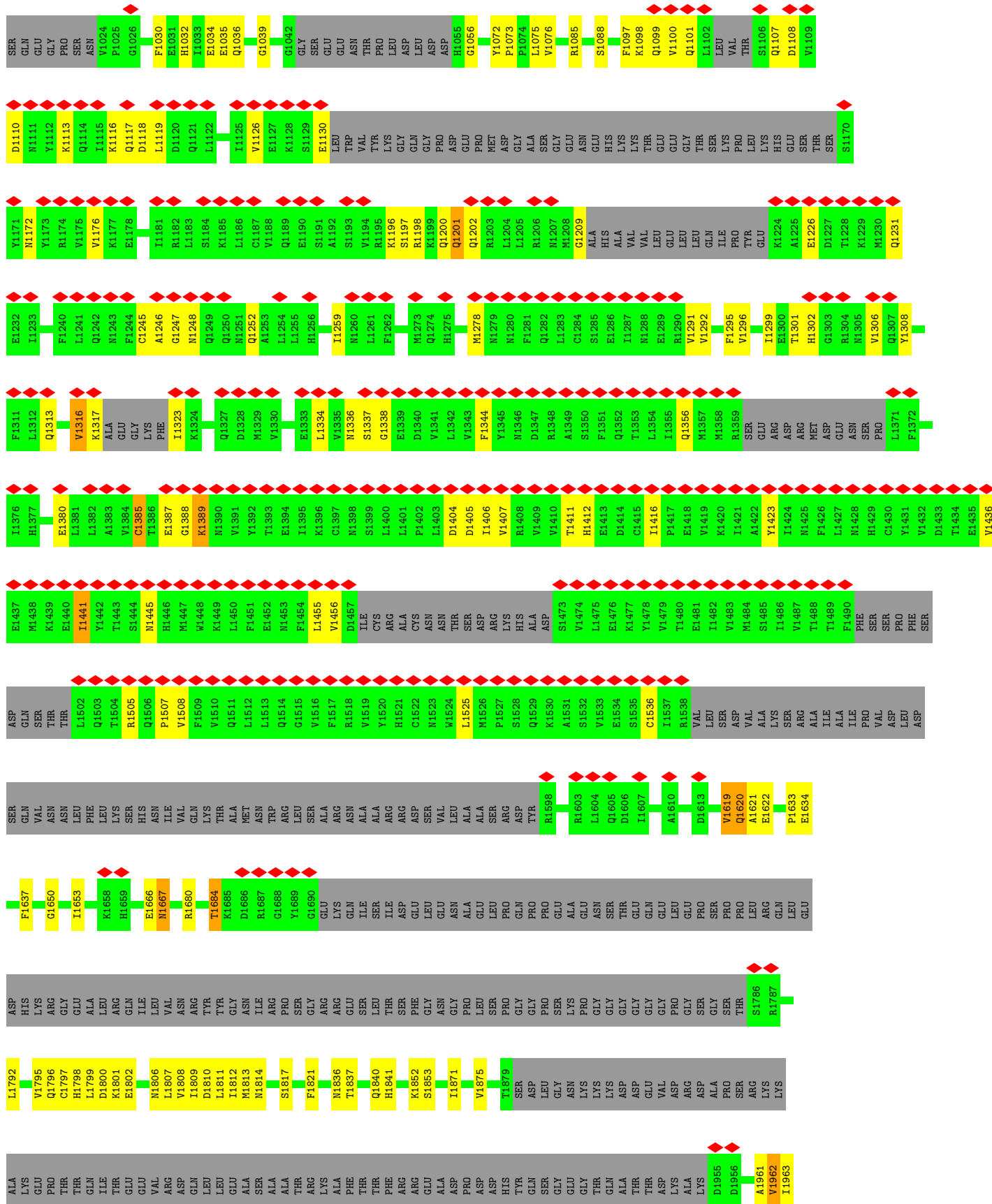
• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1

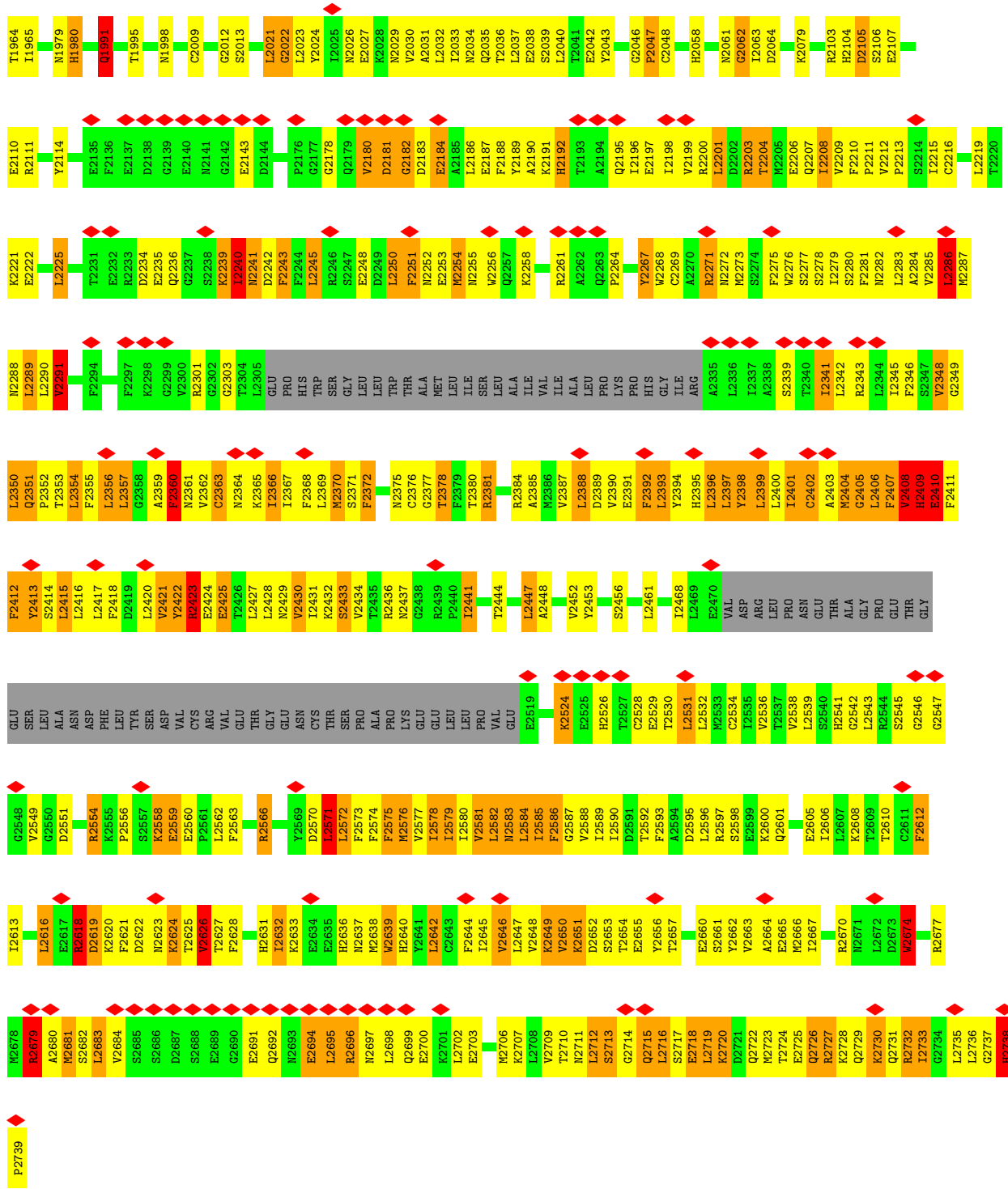




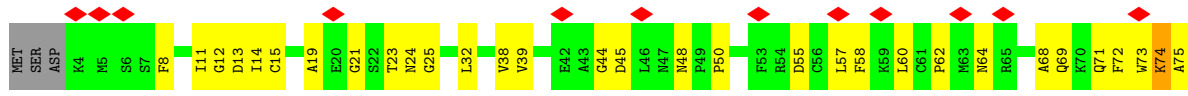
• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1







• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1



A1961	V1109	E1232	M1373	E1435	PHE	LEU	E1634	R1787	ARG	A1961
V1962	D1110	I1233	H1377	V1436	SER	ASP	L1635	S1791	LYS	V1962
I1963	M1111	F1240	L1378	E1437	GLN	GLN	L1636	L1792	ALA	I1963
I1965	Y1112	L1241	V1379	M1438	SER	VAL	F1637	V1796	LYS	I1965
M1979	K1113	L1242	E1380	M1439	THR	THR	G1650	C1797	GLY	M1979
H1980	Q1114	M1243	L1382	E1440	THR	THR	I1653	H1798	ALA	H1980
Q1991	Q1115	F1244	A1383	I1441	LEU	PHE	K1658	D1800	GLN	Q1991
T1995	I1116	F1244	A1384	Y1442	LEU	LEU	T1658	L1799	ARG	T1995
M1998	Q1117	K1177	V1384	L1443	SER	SER	H1659	D1801	GLN	M1998
C2009	D1118	E1178	C1385	S1444	HIS	HIS	E1666	K1801	LEU	C2009
G2012	L1119	I1181	T1386	M1445	ASN	ASN	N1667	E1802	LEU	G2012
S2013	D1120	R1182	E1387	H1446	ILE	ILE	N1667	M1806	VAL	S2013
L2021	Q1121	L1183	G1388	M1447	VAL	VAL	R1680	L1807	ASN	L2021
G2022	L1122	S1184	K1389	M1448	GLN	GLN	R1680	V1808	ASN	G2022
L2023	I1125	K1185	M1390	W1449	LYS	LYS	T1684	I1809	TYR	L2023
Y2024	V1126	M1251	M1391	L1450	THR	THR	K1685	D1810	TYR	Y2024
Z2025	E1127	Q1252	Y1392	F1451	ALA	ALA	D1686	L1811	GLY	Z2025
N2026	K1128	L1255	T1393	F1452	ASN	ASN	R1687	I1812	ASN	N2026
E2027	S1129	H1256	E1394	M1453	TRP	TRP	G1688	M1813	ARG	E2027
K2028	E1130	M1259	E1395	L1454	ARG	ARG	Y1689	N1814	PRO	K2028
N2029	LEU	M1260	K1396	L1455	LEU	LEU	G1690	S1817	SER	N2029
A2031	TRP	M1261	K1397	V1456	SER	SER	GLU	F1821	GLY	A2031
L2032	VAL	L1261	C1397	W1456	ALA	ALA	LYS	M1836	ARG	L2032
L2033	GLY	F1262	M1398	D1457	ALA	ALA	GLN	T1837	ARG	L2033
Q2034	GLN	E1269	L1400	ILE	ALA	ALA	ILE	Q1840	LEU	Q2034
T2036	GLY	EL269	L1401	ARG	ALA	ALA	ILE	H1841	THR	T2036
L2037	ASP	M1273	P1402	ASP	ALA	ALA	ILE	K1852	SER	L2037
E2038	GLU	Q1274	L1403	CVS	ASN	ASN	ILE	S1853	PHE	E2038
S2039	GLU	H1275	D1404	ASN	VAL	VAL	LEU	I1871	THR	S2039
L2040	PRO	M1278	D1405	THR	LEU	LEU	ALA	V1875	THR	L2040
E2042	MET	L1204	D1406	SER	ALA	ALA	ALA	T1879	THR	E2042
Y2043	ASP	L1205	I1406	ASP	ALA	ALA	ALA	SER	THR	Y2043
P2046	GLY	R1206	V1407	ARG	LEU	LEU	GLN	LEU	SER	P2046
C2048	ALA	F1281	R1408	ARG	LEU	LEU	GLN	LEU	LYS	C2048
H2058	SER	N1207	V1409	LYS	GLN	GLN	GLN	LEU	GLY	H2058
N2061	GLU	M1208	G1410	HIS	ASN	ASN	GLN	LEU	LYS	N2061
G2062	GLU	L1283	T1411	ASP	ASN	ASN	ALA	LEU	GLY	G2062
D2064	VAL	C1284	H1412	ASP	ASP	ASP	ALA	LEU	GLY	D2064
K2079	THR	S1285	D1414	ARG	ASP	ASP	GLN	LEU	GLY	K2079
R2103	THR	E1286	C1415	THR	TYR	TYR	GLN	LEU	GLY	R2103
H2104	GLU	M1288	I1416	E1477	TYR	TYR	GLN	LEU	GLY	H2104
D2105	LEU	E1289	I1417	V1478	TYR	TYR	GLN	LEU	GLY	D2105
	LEU	R1290	P1417	V1479	TYR	TYR	GLN	LEU	GLY	
	LEU	I1291	E1418	T1480	TYR	TYR	GLN	LEU	GLY	
	LEU	V1292	I1419	I1481	TYR	TYR	GLN	LEU	GLY	
	LEU	F1295	K1420	V1482	TYR	TYR	GLN	LEU	GLY	
	LEU	V1296	I1421	M1484	TYR	TYR	GLN	LEU	GLY	
	LEU	I1299	A1422	S1485	TYR	TYR	GLN	LEU	GLY	
	LEU	F1300	Y1423	I1486	TYR	TYR	GLN	LEU	GLY	
	LEU	T1301	I1424	V1487	TYR	TYR	GLN	LEU	GLY	
	LEU	M1302	N1425	V1487	TYR	TYR	GLN	LEU	GLY	
	LEU	T1303	F1426	T1488	TYR	TYR	GLN	LEU	GLY	
	LEU	G1303	L1427	T1489	TYR	TYR	GLN	LEU	GLY	
	LEU	R1304	M1428	F1490	TYR	TYR	GLN	LEU	GLY	
	LEU	M1305	H1429	PHE	TYR	TYR	GLN	LEU	GLY	
	LEU	V1306	C1430	SER	TYR	TYR	GLN	LEU	GLY	
	LEU	Q1307	V1431	SER	TYR	TYR	GLN	LEU	GLY	
	LEU		D1433	PRO	TYR	TYR	GLN	LEU	GLY	
	LEU		T1434	PRO	TYR	TYR	GLN	LEU	GLY	

S2106	E2107	E2110	R2111	Y2114	E2135	F2136	D2137	D2138	G2139	E2140	M2141	G2142	E2143	D2144	A2160	A2164	F2176	G2177	G2178	Q2179	V2180	D2181	G2182	D2183	E2184	R2185	L2186	E2187	F2188	V2189	A2190	K2191	H2192	T2193	A2194	Q2195	I2196	E2197	I2198	V2199	R2200	L2201	D2202	R2203	T2204	R2205	E2206	Q2207	I2208	V2209	F2210	V2212				
P2213	S2214	I2215	C2216	L2219	M2287	T2220	K2221	L2225	T2231	E2232	R2233	D2234	E2235	Q2236	G2237	K2239	I2240	N2241	D2242	F2243	F2244	L2245	R2246	S2247	E2248	L2249	L2250	F2251	N2252	E2253	M2254	N2255	W2256	Q2257	K2258	R2261	A2262	Q2263	P2264	Y2267	W2268	C2269	A2270	R2271	N2272	M2273	S2274	F2275	W2276	S2277	S2278	I2279	S2280	F2281		
N2282	L2283	A2284	V2285	L2286	M2287	N2288	L2289	L2290	V2291	F2294	Y2295	F2296	F2297	K2298	Q2299	V2300	R2301	G2302	T2304	L2305	GLU	PRO	HIS	TRP	TRP	GLY	LEU	LEU	TRP	THR	ALA	E2253	LEU	ILE	SER	ALA	ILE	VAL	ILE	ALA	LEU	PRO	LYS	HIS	GLY	ILE	ARG	A2335	L2336	T2337	A2338	S2339	T2340	I2341	L2342	
R2343	L2344	I2345	F2346	S2347	V2348	G2349	L2350	Q2351	P2352	T2353	L2354	F2355	L2356	L2357	G2358	F2360	M2361	V2362	C2363	N2364	I2366	K2366	L2367	F2368	L2369	M2370	S2371	F2372	N2375	C2376	G2377	T2378	F2379	L2380	R2381	R2384	A2385	M2386	V2387	L2388	D2389	V2390	E2391	F2392	L2393	Y2394	H2395	L2396	L2397	L2398	L2399	L2400	I2401	C2402	A2403	M2404
G2405	L2406	F2407	V2408	H2409	E2410	F2411	F2412	Y2413	S2414	L2415	L2416	L2417	F2418	D2419	L2420	V2421	Y2422	R2423	E2424	E2425	T2426	L2427	L2428	N2429	V2430	I2431	K2432	S2433	V2434	L2435	R2436	N2437	G2438	R2439	P2440	I2441	T2444	L2447	A2448	V2452	Y2453	L2454	S2455	L2461	L2468	L2469	E2470	VAL	ASP	ARG	LEU	PRO	ASN			
GLU	THR	ALA	GLY	PRO	GLU	THR	GLY	SER	LEU	ALA	ASN	ASP	PHE	LEU	TYR	SER	ASP	VAL	CYS	ARG	VAL	GLU	THR	GLY	GLU	ASN	CYS	THR	SER	PRO	ALA	LYS	GLU	GLU	LEU	VAL	E2519	K2524	E2525	H2526	T2527	C2528	F2529	T2530	L2531	L2532	M2533	C2534	E2535	V2536	T2537	L2538				
S2540	H2541	G2542	L2543	G2546	G2547	G2548	V2549	D2551	R2554	K2555	G2556	S2557	K2558	E2559	E2560	P2561	L2562	F2563	R2566	Y2569	D2570	L2571	L2572	F2573	F2574	F2575	M2576	V2577	I2578	I2579	I2580	V2581	L2582	N2583	L2584	I2585	F2586	G2587	V2588	I2589	L2590	D2591	T2592	F2593	A2594	D2595	L2596	R2597	S2598	E2599	K2600	Q2601	E2605			
L2606	L2607	K2608	T2609	T2610	C2611	F2612	I2613	L2616	E2617	R2618	D2619	K2620	F2621	D2622	N2623	K2624	T2625	V2626	T2627	F2628	H2631	I2632	K2633	E2634	D2635	H2636	N2637	M2638	W2639	H2640	Y2641	L2642	G2643	F2644	I2645	V2646	L2647	V2648	K2649	V2650	K2651	D2652	S2653	T2654	E2655	Y2656	T2657	E2660	S2661	Y2662	V2663	E2664	A2665	M2666	L2667	
R2670	M2671	L2672	D2673	R2674	R2677	M2678	R2679	A2680	M2681	S2682	L2683	V2684	S2685	S2686	D2687	S2688	E2689	G2690	E2691	Q2692	M2693	E2694	L2695	D2696	N2697	L2698	Q2699	E2700	E2703	M2706	K2707	L2708	V2709	T2710	M2711	L2712	S2713	G2714	Q2715	L2716	S2717	E2718	L2719	K2720	D2721	Q2722	M2723	T2724	E2725	Q2726	R2727	K2728	Q2729	K2730	Q2731	R2732
I2733	G2734	L2735	L2736	G2737	H2738	F2739																																																		

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	179760	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	16.041	Depositor
Minimum map value	-13.204	Depositor
Average map value	0.092	Depositor
Map value standard deviation	0.632	Depositor
Recommended contour level	1.75	Depositor
Map size (\AA)	252.0, 252.0, 252.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.26, 1.26, 1.26	Depositor

5 Model quality i

5.1 Standard geometry i

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

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	0.62	8/12648 (0.1%)	0.99	63/16640 (0.4%)
1	B	0.62	8/12648 (0.1%)	0.99	61/16640 (0.4%)
1	C	0.62	8/12648 (0.1%)	0.99	62/16640 (0.4%)
1	D	0.62	8/12648 (0.1%)	0.99	63/16640 (0.4%)
All	All	0.62	32/50592 (0.1%)	0.99	249/66560 (0.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	17
1	B	0	17
1	C	0	17
1	D	0	17
All	All	0	68

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1201	GLN	C-N	10.45	1.58	1.34
1	C	1201	GLN	C-N	10.42	1.58	1.34
1	A	1201	GLN	C-N	10.41	1.58	1.34
1	D	1201	GLN	C-N	10.40	1.57	1.34
1	A	2583	ASN	CB-CG	7.56	1.68	1.51
1	B	2583	ASN	CB-CG	7.56	1.68	1.51
1	C	2583	ASN	CB-CG	7.55	1.68	1.51
1	D	2583	ASN	CB-CG	7.55	1.68	1.51
1	C	2575	PHE	CB-CG	-7.06	1.39	1.51
1	D	2575	PHE	CB-CG	-7.05	1.39	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2575	PHE	CB-CG	-7.04	1.39	1.51
1	A	2575	PHE	CB-CG	-7.03	1.39	1.51
1	B	2583	ASN	CA-CB	6.33	1.69	1.53
1	C	2583	ASN	CA-CB	6.33	1.69	1.53
1	D	2583	ASN	CA-CB	6.33	1.69	1.53
1	A	2583	ASN	CA-CB	6.32	1.69	1.53
1	C	2579	ILE	CA-C	-6.01	1.37	1.52
1	D	2579	ILE	CA-C	-6.00	1.37	1.52
1	B	2579	ILE	CA-C	-6.00	1.37	1.52
1	A	2579	ILE	CA-C	-5.99	1.37	1.52
1	B	2674	TRP	CB-CG	-5.66	1.40	1.50
1	D	2674	TRP	CB-CG	-5.66	1.40	1.50
1	A	2674	TRP	CB-CG	-5.62	1.40	1.50
1	C	2674	TRP	CB-CG	-5.62	1.40	1.50
1	B	2585	ILE	CA-C	-5.20	1.39	1.52
1	D	2585	ILE	CA-C	-5.19	1.39	1.52
1	C	2585	ILE	CA-C	-5.18	1.39	1.52
1	A	2585	ILE	CA-C	-5.17	1.39	1.52
1	C	2578	ILE	N-CA	-5.06	1.36	1.46
1	A	2578	ILE	N-CA	-5.05	1.36	1.46
1	B	2578	ILE	N-CA	-5.05	1.36	1.46
1	D	2578	ILE	N-CA	-5.04	1.36	1.46

All (249) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2738	HIS	C-N-CD	11.36	152.25	128.40
1	A	2738	HIS	C-N-CD	11.35	152.24	128.40
1	C	2738	HIS	C-N-CD	11.35	152.23	128.40
1	D	2738	HIS	C-N-CD	11.34	152.21	128.40
1	D	2584	LEU	CA-CB-CG	-11.29	89.33	115.30
1	A	2584	LEU	CA-CB-CG	-11.28	89.36	115.30
1	B	2584	LEU	CA-CB-CG	-11.28	89.36	115.30
1	C	2584	LEU	CA-CB-CG	-11.26	89.41	115.30
1	C	2225	LEU	CA-CB-CG	10.54	139.54	115.30
1	D	2225	LEU	CA-CB-CG	10.53	139.52	115.30
1	A	2225	LEU	CA-CB-CG	10.52	139.50	115.30
1	B	2225	LEU	CA-CB-CG	10.52	139.50	115.30
1	C	2531	LEU	CA-CB-CG	10.36	139.14	115.30
1	A	2531	LEU	CA-CB-CG	10.34	139.08	115.30
1	B	2531	LEU	CA-CB-CG	10.34	139.08	115.30
1	D	2531	LEU	CA-CB-CG	10.33	139.07	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	647	VAL	N-CA-C	-9.68	84.86	111.00
1	D	647	VAL	N-CA-C	-9.68	84.86	111.00
1	A	647	VAL	N-CA-C	-9.68	84.86	111.00
1	C	647	VAL	N-CA-C	-9.67	84.88	111.00
1	C	1389	LYS	N-CA-C	9.12	135.64	111.00
1	D	1389	LYS	N-CA-C	9.12	135.64	111.00
1	A	1389	LYS	N-CA-C	9.12	135.62	111.00
1	D	2240	ILE	N-CA-C	9.11	135.60	111.00
1	B	1389	LYS	N-CA-C	9.10	135.57	111.00
1	A	2240	ILE	N-CA-C	9.10	135.56	111.00
1	C	2240	ILE	N-CA-C	9.09	135.55	111.00
1	B	2240	ILE	N-CA-C	9.09	135.53	111.00
1	B	2579	ILE	C-N-CA	-9.03	99.13	121.70
1	A	2579	ILE	C-N-CA	-9.02	99.15	121.70
1	C	2579	ILE	C-N-CA	-9.02	99.16	121.70
1	D	2579	ILE	C-N-CA	-9.01	99.18	121.70
1	B	1388	GLY	N-CA-C	8.97	135.53	113.10
1	D	1388	GLY	N-CA-C	8.97	135.52	113.10
1	A	1388	GLY	N-CA-C	8.97	135.51	113.10
1	C	1388	GLY	N-CA-C	8.96	135.50	113.10
1	C	2582	LEU	CA-CB-CG	-8.27	96.29	115.30
1	B	2582	LEU	CA-CB-CG	-8.26	96.29	115.30
1	A	2582	LEU	CA-CB-CG	-8.26	96.31	115.30
1	D	2582	LEU	CA-CB-CG	-8.25	96.32	115.30
1	D	1336	ASN	C-N-CA	8.21	142.22	121.70
1	B	1336	ASN	C-N-CA	8.21	142.21	121.70
1	A	1336	ASN	C-N-CA	8.20	142.21	121.70
1	C	1336	ASN	C-N-CA	8.20	142.21	121.70
1	B	2061	ASN	C-N-CA	-8.20	105.08	122.30
1	A	2061	ASN	C-N-CA	-8.18	105.11	122.30
1	C	2061	ASN	C-N-CA	-8.18	105.13	122.30
1	D	2061	ASN	C-N-CA	-8.17	105.15	122.30
1	A	628	PRO	N-CA-C	8.01	132.91	112.10
1	D	628	PRO	N-CA-C	8.01	132.91	112.10
1	C	628	PRO	N-CA-C	8.00	132.89	112.10
1	B	628	PRO	N-CA-C	8.00	132.89	112.10
1	D	2586	PHE	N-CA-CB	-7.93	96.32	110.60
1	A	2586	PHE	N-CA-CB	-7.91	96.37	110.60
1	C	2586	PHE	N-CA-CB	-7.90	96.38	110.60
1	B	2586	PHE	N-CA-CB	-7.90	96.38	110.60
1	C	78	PRO	CA-N-CD	-7.85	100.51	111.50
1	B	78	PRO	CA-N-CD	-7.83	100.55	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	78	PRO	CA-N-CD	-7.82	100.55	111.50
1	D	78	PRO	CA-N-CD	-7.80	100.58	111.50
1	C	2572	LEU	CA-CB-CG	-7.74	97.49	115.30
1	A	2572	LEU	CA-CB-CG	-7.74	97.50	115.30
1	D	2572	LEU	CA-CB-CG	-7.74	97.51	115.30
1	B	2559	GLU	N-CA-C	-7.73	90.12	111.00
1	B	2572	LEU	CA-CB-CG	-7.73	97.53	115.30
1	A	2559	GLU	N-CA-C	-7.72	90.16	111.00
1	C	2559	GLU	N-CA-C	-7.72	90.16	111.00
1	D	2738	HIS	C-N-CA	-7.71	89.61	122.00
1	D	2559	GLU	N-CA-C	-7.71	90.19	111.00
1	A	2738	HIS	C-N-CA	-7.70	89.65	122.00
1	B	2738	HIS	C-N-CA	-7.70	89.65	122.00
1	C	2738	HIS	C-N-CA	-7.70	89.68	122.00
1	D	2583	ASN	N-CA-CB	7.56	124.22	110.60
1	A	2583	ASN	N-CA-CB	7.56	124.21	110.60
1	B	2583	ASN	N-CA-CB	7.55	124.19	110.60
1	C	1308	TYR	N-CA-C	7.54	131.37	111.00
1	D	1308	TYR	N-CA-C	7.54	131.35	111.00
1	A	1308	TYR	N-CA-C	7.54	131.35	111.00
1	C	2583	ASN	N-CA-CB	7.54	124.17	110.60
1	B	1308	TYR	N-CA-C	7.52	131.30	111.00
1	D	1505	ARG	N-CA-C	7.49	131.22	111.00
1	B	1505	ARG	N-CA-C	7.48	131.20	111.00
1	A	1505	ARG	N-CA-C	7.47	131.18	111.00
1	C	1505	ARG	N-CA-C	7.47	131.17	111.00
1	B	2027	GLU	C-N-CA	-7.27	103.52	121.70
1	A	2027	GLU	C-N-CA	-7.25	103.58	121.70
1	C	2027	GLU	C-N-CA	-7.24	103.61	121.70
1	D	2027	GLU	C-N-CA	-7.23	103.62	121.70
1	A	2291	VAL	CB-CA-C	-6.93	98.24	111.40
1	C	2291	VAL	CB-CA-C	-6.92	98.25	111.40
1	D	2291	VAL	CB-CA-C	-6.91	98.26	111.40
1	B	2291	VAL	CB-CA-C	-6.90	98.29	111.40
1	A	2626	VAL	CB-CA-C	-6.78	98.52	111.40
1	C	2626	VAL	CB-CA-C	-6.78	98.52	111.40
1	D	2551	ASP	CB-CG-OD1	6.77	124.39	118.30
1	B	2626	VAL	CB-CA-C	-6.76	98.55	111.40
1	D	2626	VAL	CB-CA-C	-6.74	98.59	111.40
1	B	2551	ASP	CB-CG-OD1	6.74	124.37	118.30
1	A	2551	ASP	CB-CG-OD1	6.74	124.36	118.30
1	C	2551	ASP	CB-CG-OD1	6.72	124.35	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2679	ARG	CG-CD-NE	6.64	125.73	111.80
1	C	2679	ARG	CG-CD-NE	6.63	125.73	111.80
1	D	2679	ARG	CG-CD-NE	6.63	125.72	111.80
1	B	2679	ARG	CG-CD-NE	6.62	125.69	111.80
1	A	526	PRO	CA-N-CD	-6.61	102.24	111.50
1	C	526	PRO	CA-N-CD	-6.61	102.25	111.50
1	D	526	PRO	CA-N-CD	-6.61	102.25	111.50
1	B	526	PRO	CA-N-CD	-6.60	102.25	111.50
1	A	83	THR	C-N-CA	-6.56	105.30	121.70
1	B	83	THR	C-N-CA	-6.56	105.30	121.70
1	D	83	THR	C-N-CA	-6.56	105.30	121.70
1	C	83	THR	C-N-CA	-6.56	105.31	121.70
1	A	887	LEU	C-N-CA	-6.47	105.52	121.70
1	C	887	LEU	C-N-CA	-6.46	105.54	121.70
1	D	887	LEU	C-N-CA	-6.46	105.55	121.70
1	B	887	LEU	C-N-CA	-6.45	105.57	121.70
1	C	2679	ARG	NE-CZ-NH2	6.44	123.52	120.30
1	C	84	THR	N-CA-C	-6.43	93.65	111.00
1	B	84	THR	N-CA-C	-6.43	93.65	111.00
1	A	2679	ARG	NE-CZ-NH2	6.42	123.51	120.30
1	A	84	THR	N-CA-C	-6.42	93.67	111.00
1	D	84	THR	N-CA-C	-6.42	93.67	111.00
1	B	2679	ARG	NE-CZ-NH2	6.42	123.51	120.30
1	D	2679	ARG	NE-CZ-NH2	6.35	123.48	120.30
1	C	1666	GLU	C-N-CA	-6.28	106.01	121.70
1	A	1666	GLU	C-N-CA	-6.27	106.02	121.70
1	B	1666	GLU	C-N-CA	-6.27	106.03	121.70
1	D	1666	GLU	C-N-CA	-6.27	106.03	121.70
1	B	2531	LEU	CB-CG-CD2	6.18	121.51	111.00
1	D	887	LEU	N-CA-C	-6.18	94.31	111.00
1	D	2531	LEU	CB-CG-CD2	6.18	121.50	111.00
1	A	2531	LEU	CB-CG-CD2	6.18	121.50	111.00
1	C	887	LEU	N-CA-C	-6.17	94.35	111.00
1	A	887	LEU	N-CA-C	-6.17	94.35	111.00
1	B	887	LEU	N-CA-C	-6.16	94.36	111.00
1	C	2531	LEU	CB-CG-CD2	6.15	121.45	111.00
1	B	1991	GLN	CA-C-N	-6.14	103.69	117.20
1	C	1991	GLN	CA-C-N	-6.13	103.71	117.20
1	D	2571	LEU	CA-CB-CG	6.13	129.40	115.30
1	C	2571	LEU	CA-CB-CG	6.13	129.39	115.30
1	D	1991	GLN	CA-C-N	-6.13	103.72	117.20
1	A	1991	GLN	CA-C-N	-6.12	103.72	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2571	LEU	CA-CB-CG	6.12	129.38	115.30
1	B	2571	LEU	CA-CB-CG	6.11	129.35	115.30
1	C	877	GLY	N-CA-C	6.07	128.28	113.10
1	D	877	GLY	N-CA-C	6.07	128.28	113.10
1	A	877	GLY	N-CA-C	6.07	128.26	113.10
1	B	877	GLY	N-CA-C	6.06	128.24	113.10
1	D	823	GLY	N-CA-C	-5.98	98.15	113.10
1	B	823	GLY	N-CA-C	-5.98	98.16	113.10
1	A	823	GLY	N-CA-C	-5.96	98.19	113.10
1	C	823	GLY	N-CA-C	-5.96	98.20	113.10
1	B	2398	TYR	CA-CB-CG	-5.95	102.10	113.40
1	A	2398	TYR	CA-CB-CG	-5.94	102.12	113.40
1	C	2539	LEU	CB-CG-CD2	-5.93	100.92	111.00
1	B	2539	LEU	CB-CG-CD2	-5.92	100.93	111.00
1	C	2398	TYR	CA-CB-CG	-5.92	102.15	113.40
1	A	2539	LEU	CB-CG-CD2	-5.92	100.94	111.00
1	D	2398	TYR	CA-CB-CG	-5.92	102.15	113.40
1	D	2539	LEU	CB-CG-CD2	-5.91	100.95	111.00
1	B	1387	GLU	N-CA-C	5.91	126.95	111.00
1	A	1387	GLU	N-CA-C	5.90	126.92	111.00
1	C	1387	GLU	N-CA-C	5.90	126.92	111.00
1	D	1387	GLU	N-CA-C	5.90	126.92	111.00
1	B	2694	GLU	N-CA-C	5.87	126.83	111.00
1	B	1056	GLY	N-CA-C	5.86	127.75	113.10
1	D	1056	GLY	N-CA-C	5.86	127.75	113.10
1	A	2694	GLU	N-CA-C	5.85	126.81	111.00
1	C	1056	GLY	N-CA-C	5.85	127.73	113.10
1	A	1056	GLY	N-CA-C	5.85	127.73	113.10
1	D	2694	GLU	N-CA-C	5.85	126.80	111.00
1	C	2694	GLU	N-CA-C	5.85	126.80	111.00
1	D	1411	THR	N-CA-C	5.81	126.68	111.00
1	A	1411	THR	N-CA-C	5.80	126.66	111.00
1	B	1411	THR	N-CA-C	5.80	126.66	111.00
1	B	2618	ARG	N-CA-C	5.80	126.65	111.00
1	D	2618	ARG	N-CA-C	5.80	126.66	111.00
1	C	1411	THR	N-CA-C	5.80	126.65	111.00
1	A	2618	ARG	N-CA-C	5.79	126.63	111.00
1	C	2618	ARG	N-CA-C	5.78	126.60	111.00
1	D	1619	VAL	N-CA-C	5.74	126.49	111.00
1	A	1619	VAL	N-CA-C	5.73	126.48	111.00
1	B	1619	VAL	N-CA-C	5.73	126.47	111.00
1	D	2350	LEU	N-CA-C	-5.73	95.53	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2350	LEU	N-CA-C	-5.73	95.54	111.00
1	C	2350	LEU	N-CA-C	-5.72	95.55	111.00
1	B	2350	LEU	N-CA-C	-5.72	95.55	111.00
1	C	270	GLN	C-N-CA	-5.72	107.41	121.70
1	C	1619	VAL	N-CA-C	5.71	126.43	111.00
1	A	270	GLN	C-N-CA	-5.71	107.42	121.70
1	D	270	GLN	C-N-CA	-5.71	107.44	121.70
1	B	270	GLN	C-N-CA	-5.70	107.45	121.70
1	C	525	ALA	C-N-CD	-5.65	108.17	120.60
1	B	525	ALA	C-N-CD	-5.65	108.17	120.60
1	A	525	ALA	C-N-CD	-5.64	108.19	120.60
1	D	525	ALA	C-N-CD	-5.64	108.19	120.60
1	A	1201	GLN	C-N-CA	-5.61	107.67	121.70
1	C	1201	GLN	C-N-CA	-5.61	107.67	121.70
1	B	1201	GLN	C-N-CA	-5.60	107.69	121.70
1	D	1201	GLN	C-N-CA	-5.60	107.69	121.70
1	B	611	THR	N-CA-C	-5.52	96.10	111.00
1	A	611	THR	N-CA-C	-5.51	96.11	111.00
1	C	611	THR	N-CA-C	-5.51	96.13	111.00
1	D	611	THR	N-CA-C	-5.50	96.16	111.00
1	B	512	GLU	N-CA-C	5.45	125.72	111.00
1	A	512	GLU	N-CA-C	5.44	125.69	111.00
1	C	512	GLU	N-CA-C	5.44	125.69	111.00
1	D	512	GLU	N-CA-C	5.43	125.65	111.00
1	B	2421	VAL	CB-CA-C	5.34	121.55	111.40
1	A	2421	VAL	CB-CA-C	5.33	121.52	111.40
1	C	88	LEU	CA-CB-CG	5.33	127.55	115.30
1	A	88	LEU	CA-CB-CG	5.32	127.54	115.30
1	D	2421	VAL	CB-CA-C	5.32	121.51	111.40
1	D	88	LEU	CA-CB-CG	5.32	127.53	115.30
1	B	88	LEU	CA-CB-CG	5.31	127.52	115.30
1	C	2421	VAL	CB-CA-C	5.31	121.48	111.40
1	B	2239	LYS	CD-CE-NZ	-5.28	99.56	111.70
1	C	1441	ILE	C-N-CA	-5.28	108.50	121.70
1	A	1441	ILE	C-N-CA	-5.27	108.53	121.70
1	B	1441	ILE	C-N-CA	-5.27	108.53	121.70
1	D	1441	ILE	C-N-CA	-5.26	108.55	121.70
1	D	2239	LYS	CD-CE-NZ	-5.26	99.61	111.70
1	A	2239	LYS	CD-CE-NZ	-5.25	99.61	111.70
1	C	2239	LYS	CD-CE-NZ	-5.25	99.63	111.70
1	A	2360	PHE	N-CA-CB	5.18	119.93	110.60
1	D	2360	PHE	N-CA-CB	5.18	119.92	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2360	PHE	N-CA-CB	5.17	119.92	110.60
1	B	2360	PHE	N-CA-CB	5.17	119.91	110.60
1	D	380	SER	C-N-CA	-5.14	108.85	121.70
1	C	380	SER	C-N-CA	-5.12	108.89	121.70
1	B	380	SER	C-N-CA	-5.12	108.90	121.70
1	A	380	SER	C-N-CA	-5.12	108.90	121.70
1	C	106	GLU	CB-CA-C	-5.07	100.26	110.40
1	D	106	GLU	CB-CA-C	-5.07	100.26	110.40
1	A	106	GLU	CB-CA-C	-5.06	100.27	110.40
1	B	106	GLU	CB-CA-C	-5.05	100.29	110.40
1	D	2713	SER	N-CA-C	5.04	124.61	111.00
1	A	2713	SER	N-CA-C	5.04	124.61	111.00
1	B	2713	SER	N-CA-C	5.04	124.60	111.00
1	C	2713	SER	N-CA-C	5.03	124.59	111.00
1	C	2695	LEU	N-CA-C	5.02	124.54	111.00
1	D	2571	LEU	CB-CG-CD1	5.01	119.53	111.00
1	B	2695	LEU	N-CA-C	5.01	124.53	111.00
1	A	2695	LEU	N-CA-C	5.01	124.53	111.00
1	D	998	LYS	C-N-CA	-5.01	109.18	121.70
1	D	2695	LEU	N-CA-C	5.01	124.52	111.00
1	A	998	LYS	C-N-CA	-5.00	109.19	121.70
1	A	2571	LEU	CB-CG-CD1	5.00	119.50	111.00
1	C	2571	LEU	CB-CG-CD1	5.00	119.51	111.00

There are no chirality outliers.

All (68) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1323	ILE	Mainchain
1	A	1650	GLY	Peptide
1	A	1667	ASN	Peptide
1	A	1991	GLN	Mainchain
1	A	2181	ASP	Mainchain
1	A	2408	VAL	Peptide
1	A	2409	HIS	Peptide
1	A	2410	GLU	Peptide
1	A	2423	ARG	Mainchain
1	A	2425	GLU	Mainchain
1	A	2529	GLU	Peptide
1	A	2612	PHE	Peptide
1	A	2674	TRP	Peptide
1	A	319	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	A	501	LYS	Peptide
1	A	514	ASN	Mainchain
1	A	84	THR	Mainchain
1	B	1323	ILE	Mainchain
1	B	1650	GLY	Peptide
1	B	1667	ASN	Peptide
1	B	1991	GLN	Mainchain
1	B	2181	ASP	Mainchain
1	B	2408	VAL	Peptide
1	B	2409	HIS	Peptide
1	B	2410	GLU	Peptide
1	B	2423	ARG	Mainchain
1	B	2425	GLU	Mainchain
1	B	2529	GLU	Peptide
1	B	2612	PHE	Peptide
1	B	2674	TRP	Peptide
1	B	319	ASP	Peptide
1	B	501	LYS	Peptide
1	B	514	ASN	Mainchain
1	B	84	THR	Mainchain
1	C	1323	ILE	Mainchain
1	C	1650	GLY	Peptide
1	C	1667	ASN	Peptide
1	C	1991	GLN	Mainchain
1	C	2181	ASP	Mainchain
1	C	2408	VAL	Peptide
1	C	2409	HIS	Peptide
1	C	2410	GLU	Peptide
1	C	2423	ARG	Mainchain
1	C	2425	GLU	Mainchain
1	C	2529	GLU	Peptide
1	C	2612	PHE	Peptide
1	C	2674	TRP	Peptide
1	C	319	ASP	Peptide
1	C	501	LYS	Peptide
1	C	514	ASN	Mainchain
1	C	84	THR	Mainchain
1	D	1323	ILE	Mainchain
1	D	1650	GLY	Peptide
1	D	1667	ASN	Peptide
1	D	1991	GLN	Mainchain
1	D	2181	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	D	2408	VAL	Peptide
1	D	2409	HIS	Peptide
1	D	2410	GLU	Peptide
1	D	2423	ARG	Mainchain
1	D	2425	GLU	Mainchain
1	D	2529	GLU	Peptide
1	D	2612	PHE	Peptide
1	D	2674	TRP	Peptide
1	D	319	ASP	Peptide
1	D	501	LYS	Peptide
1	D	514	ASN	Mainchain
1	D	84	THR	Mainchain

5.2 Too-close contacts [i](#)

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	12499	0	8930	1716	0
1	B	12499	0	8931	1719	0
1	C	12499	0	8931	1699	0
1	D	12499	0	8930	1704	0
2	A	42	5	0	26	0
2	B	42	5	0	25	0
2	C	42	5	0	25	0
2	D	42	5	0	26	0
All	All	50164	20	35722	6549	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 76.

All (6549) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2243:PHE:CE1	1:B:2642:LEU:HD11	1.23	1.63
1:D:2243:PHE:CE1	1:D:2642:LEU:HD11	1.23	1.63
1:A:2700:GLU:CG	1:B:2702:LEU:HD12	1.17	1.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2696:ARG:HH12	1:D:2696:ARG:CZ	1.09	1.62
1:A:275:ALA:HB2	2:A:2801:JYP:C5	1.15	1.62
1:C:646:PRO:CA	1:C:649:GLN:H	1.13	1.61
1:D:275:ALA:HB2	2:D:2801:JYP:C5	1.15	1.61
1:B:646:PRO:CA	1:B:649:GLN:H	1.13	1.61
1:B:2213:PRO:CD	1:B:2647:LEU:HB2	1.20	1.61
1:A:2213:PRO:CD	1:A:2647:LEU:HB2	1.20	1.61
1:A:2243:PHE:CE1	1:A:2642:LEU:HD11	1.23	1.61
1:A:2700:GLU:CG	1:B:2702:LEU:CD1	1.79	1.60
1:D:2213:PRO:CD	1:D:2647:LEU:HB2	1.20	1.59
1:D:2433:SER:CB	1:D:2593:PHE:CZ	1.86	1.59
1:C:275:ALA:HB2	2:C:2801:JYP:C5	1.15	1.58
1:C:2213:PRO:CD	1:C:2647:LEU:HB2	1.20	1.58
1:C:2243:PHE:CE1	1:C:2642:LEU:HD11	1.23	1.58
1:B:275:ALA:HB2	2:B:2801:JYP:C5	1.15	1.58
1:B:2433:SER:CB	1:B:2593:PHE:CZ	1.86	1.57
1:C:2433:SER:CB	1:C:2593:PHE:CZ	1.86	1.57
1:B:2243:PHE:HE1	1:B:2642:LEU:CD1	1.08	1.57
1:D:646:PRO:CA	1:D:649:GLN:H	1.13	1.57
1:A:2433:SER:CB	1:A:2593:PHE:CZ	1.86	1.56
1:A:646:PRO:CA	1:A:649:GLN:H	1.13	1.56
1:A:2243:PHE:HE1	1:A:2642:LEU:CD1	1.08	1.56
1:C:2243:PHE:HE1	1:C:2642:LEU:CD1	1.08	1.56
1:D:2243:PHE:HE1	1:D:2642:LEU:CD1	1.08	1.55
1:D:2637:ASN:ND2	1:D:2640:HIS:CD2	1.74	1.55
1:C:89:LEU:CA	1:C:92:LEU:CD2	1.82	1.55
1:B:89:LEU:CA	1:B:92:LEU:CD2	1.82	1.55
1:D:89:LEU:CA	1:D:92:LEU:CD2	1.82	1.55
1:A:89:LEU:CA	1:A:92:LEU:CD2	1.82	1.54
1:C:2637:ASN:ND2	1:C:2640:HIS:CD2	1.75	1.53
1:B:547:ALA:HB1	1:B:548:PRO:CD	1.34	1.52
1:D:547:ALA:HB1	1:D:548:PRO:CD	1.34	1.52
1:B:2637:ASN:ND2	1:B:2640:HIS:CD2	1.74	1.52
1:C:2696:ARG:HH12	1:B:2696:ARG:CZ	1.23	1.51
1:A:2637:ASN:ND2	1:A:2640:HIS:CD2	1.75	1.50
1:C:69:GLN:NE2	1:C:100:LYS:HD2	1.27	1.50
1:A:2433:SER:CB	1:A:2593:PHE:CE2	1.95	1.49
1:C:2345:ILE:CD1	1:C:2356:LEU:HD21	1.41	1.49
1:B:2433:SER:CB	1:B:2593:PHE:CE2	1.95	1.49
1:D:2433:SER:OG	1:D:2593:PHE:CE2	1.66	1.49
1:D:2345:ILE:CD1	1:D:2356:LEU:HD21	1.41	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2433:SER:OG	1:C:2593:PHE:CE2	1.66	1.48
1:C:2710:THR:CB	1:B:2707:LYS:NZ	1.72	1.48
1:B:646:PRO:CA	1:B:649:GLN:N	1.77	1.48
1:D:69:GLN:NE2	1:D:100:LYS:HD2	1.27	1.48
1:C:547:ALA:HB1	1:C:548:PRO:CD	1.34	1.47
1:A:2401:ILE:CG2	1:A:2416:LEU:HD13	1.45	1.47
1:A:2433:SER:OG	1:A:2593:PHE:CE2	1.66	1.47
1:D:2433:SER:CB	1:D:2593:PHE:CE2	1.95	1.47
1:B:2401:ILE:CG2	1:B:2416:LEU:HD13	1.45	1.47
1:A:2345:ILE:CD1	1:A:2356:LEU:HD21	1.41	1.47
1:C:2401:ILE:CG1	1:C:2416:LEU:HD22	1.45	1.47
1:A:2368:PHE:HE2	1:A:2395:HIS:CG	1.33	1.46
1:B:2345:ILE:CD1	1:B:2356:LEU:HD21	1.41	1.46
1:C:646:PRO:CA	1:C:649:GLN:N	1.77	1.46
1:C:2433:SER:CB	1:C:2593:PHE:CE2	1.95	1.46
1:B:69:GLN:NE2	1:B:100:LYS:HD2	1.27	1.46
1:D:2401:ILE:CG1	1:D:2416:LEU:HD22	1.45	1.46
1:A:69:GLN:NE2	1:A:100:LYS:HD2	1.27	1.45
1:B:2654:THR:O	1:B:2657:THR:CG2	1.63	1.45
1:A:547:ALA:HB1	1:A:548:PRO:CD	1.34	1.45
1:D:2343:ARG:O	1:D:2346:PHE:CD2	1.70	1.45
1:C:2626:VAL:CG1	1:C:2627:THR:H	1.13	1.44
1:A:2654:THR:O	1:A:2657:THR:CG2	1.63	1.44
1:D:2368:PHE:HE2	1:D:2395:HIS:CG	1.33	1.44
1:B:2433:SER:OG	1:B:2593:PHE:CE2	1.66	1.44
1:D:2401:ILE:CG2	1:D:2416:LEU:HD13	1.45	1.44
1:A:547:ALA:CB	1:A:548:PRO:HD2	1.42	1.44
1:A:2362:VAL:HA	1:A:2402:CYS:SG	1.58	1.44
1:C:2343:ARG:O	1:C:2346:PHE:CD2	1.70	1.44
1:B:2401:ILE:CG1	1:B:2416:LEU:HD22	1.45	1.44
1:A:2401:ILE:CG1	1:A:2416:LEU:HD22	1.45	1.44
1:C:2654:THR:O	1:C:2657:THR:CG2	1.63	1.44
1:B:2343:ARG:O	1:B:2346:PHE:CD2	1.70	1.44
1:B:2362:VAL:HA	1:B:2402:CYS:SG	1.58	1.44
1:B:2368:PHE:HE2	1:B:2395:HIS:CG	1.33	1.43
1:B:2433:SER:OG	1:B:2593:PHE:CZ	1.69	1.43
1:D:2654:THR:O	1:D:2657:THR:CG2	1.63	1.43
1:B:2403:ALA:O	1:B:2408:VAL:CG2	1.66	1.43
1:A:2696:ARG:NH1	1:D:2696:ARG:CZ	1.79	1.43
1:A:2345:ILE:O	1:A:2348:VAL:CG1	1.66	1.43
1:C:2401:ILE:CG2	1:C:2416:LEU:HD13	1.45	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2626:VAL:CG1	1:D:2627:THR:H	1.13	1.43
1:A:2715:GLN:NE2	1:B:2713:SER:CB	1.78	1.42
1:C:2368:PHE:HE2	1:C:2395:HIS:CG	1.33	1.42
1:A:2401:ILE:HG21	1:A:2416:LEU:CD1	1.49	1.42
1:C:2362:VAL:HA	1:C:2402:CYS:SG	1.58	1.42
1:D:547:ALA:CB	1:D:548:PRO:HD2	1.42	1.42
1:D:2362:VAL:HA	1:D:2402:CYS:SG	1.58	1.42
1:A:2433:SER:OG	1:A:2593:PHE:CZ	1.69	1.42
1:C:2345:ILE:O	1:C:2348:VAL:CG1	1.66	1.42
1:A:2343:ARG:O	1:A:2346:PHE:CD2	1.70	1.42
1:D:646:PRO:CA	1:D:649:GLN:N	1.77	1.42
1:A:89:LEU:CA	1:A:92:LEU:HD23	1.46	1.41
1:B:2401:ILE:HG21	1:B:2416:LEU:CD1	1.49	1.41
1:C:2401:ILE:HG21	1:C:2416:LEU:CD1	1.49	1.41
1:B:547:ALA:CB	1:B:548:PRO:HD2	1.42	1.41
1:D:2345:ILE:O	1:D:2348:VAL:CG1	1.66	1.41
1:C:2403:ALA:O	1:C:2408:VAL:CG2	1.66	1.41
1:A:2706:MET:CG	1:D:2703:GLU:OE2	1.69	1.41
1:C:2696:ARG:HH12	1:B:2696:ARG:NH2	1.15	1.41
1:B:2345:ILE:O	1:B:2348:VAL:CG1	1.66	1.41
1:B:2622:ASP:OD2	1:B:2628:PHE:CE2	1.74	1.41
1:C:89:LEU:C	1:C:92:LEU:CD2	1.88	1.40
1:C:547:ALA:CB	1:C:548:PRO:HD2	1.42	1.40
1:C:2622:ASP:OD2	1:C:2628:PHE:CE2	1.74	1.40
1:A:646:PRO:CA	1:A:649:GLN:N	1.77	1.40
1:A:2403:ALA:O	1:A:2408:VAL:CG2	1.66	1.40
1:A:2702:LEU:CD1	1:D:2700:GLU:CG	1.88	1.40
1:D:2403:ALA:O	1:D:2408:VAL:CG2	1.66	1.40
1:D:2433:SER:OG	1:D:2593:PHE:CZ	1.69	1.40
1:C:2715:GLN:NE2	1:D:2713:SER:HB2	1.30	1.40
1:A:2696:ARG:HH12	1:D:2696:ARG:NH2	1.11	1.40
1:D:89:LEU:C	1:D:92:LEU:CD2	1.88	1.40
1:A:2622:ASP:OD2	1:A:2628:PHE:CE2	1.74	1.39
1:D:2401:ILE:HG21	1:D:2416:LEU:CD1	1.49	1.39
1:D:2622:ASP:OD2	1:D:2628:PHE:CE2	1.74	1.39
1:C:89:LEU:CA	1:C:92:LEU:HD23	1.46	1.39
1:C:2433:SER:OG	1:C:2593:PHE:CZ	1.69	1.39
1:D:2612:PHE:CZ	1:D:2638:MET:SD	2.16	1.39
1:A:89:LEU:C	1:A:92:LEU:CD2	1.88	1.39
1:B:2213:PRO:HG3	1:B:2647:LEU:CD1	1.53	1.38
1:B:2612:PHE:CZ	1:B:2638:MET:SD	2.16	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2348:VAL:CB	1:C:2353:THR:HB	1.54	1.38
1:C:2612:PHE:CZ	1:C:2638:MET:SD	2.16	1.38
1:D:2348:VAL:CB	1:D:2353:THR:HB	1.54	1.38
1:A:2612:PHE:CZ	1:A:2638:MET:SD	2.16	1.38
1:B:89:LEU:C	1:B:92:LEU:CD2	1.88	1.38
1:A:2626:VAL:CG1	1:A:2627:THR:H	1.13	1.37
1:B:2213:PRO:HD3	1:B:2647:LEU:CB	1.54	1.37
1:D:2213:PRO:HD3	1:D:2647:LEU:CB	1.54	1.37
1:A:300:ASN:OD1	1:D:2730:LYS:HG2	1.19	1.37
1:C:2213:PRO:HD3	1:C:2647:LEU:CB	1.54	1.37
1:C:2213:PRO:HG3	1:C:2647:LEU:CD1	1.53	1.37
1:A:2715:GLN:NE2	1:B:2713:SER:HB2	1.15	1.37
1:A:2213:PRO:HD3	1:A:2647:LEU:CB	1.54	1.36
1:C:270:GLN:NE2	1:C:271:SER:H	1.22	1.36
1:B:2626:VAL:CG1	1:B:2627:THR:H	1.13	1.36
1:A:2213:PRO:HG3	1:A:2647:LEU:CD1	1.53	1.36
1:D:270:GLN:NE2	1:D:271:SER:H	1.22	1.36
1:C:2715:GLN:NE2	1:D:2713:SER:CB	1.89	1.35
1:A:2348:VAL:CB	1:A:2353:THR:HB	1.54	1.35
1:B:2348:VAL:CB	1:B:2353:THR:HB	1.54	1.34
1:B:2429:ASN:OD1	1:B:2432:LYS:NZ	1.59	1.34
1:D:89:LEU:CA	1:D:92:LEU:HD23	1.46	1.34
1:D:2213:PRO:HG3	1:D:2647:LEU:CD1	1.54	1.34
1:A:2348:VAL:CG1	1:A:2353:THR:CB	2.06	1.34
1:B:1245:CYS:O	1:B:1247:GLY:N	1.61	1.34
1:A:2429:ASN:OD1	1:A:2432:LYS:NZ	1.59	1.34
1:C:2368:PHE:CE2	1:C:2395:HIS:CG	2.16	1.33
1:B:2348:VAL:CG1	1:B:2353:THR:CB	2.06	1.33
1:C:1072:TYR:O	1:C:1076:VAL:N	1.62	1.33
1:A:2368:PHE:CE2	1:A:2395:HIS:CD2	2.17	1.33
1:C:2348:VAL:CG1	1:C:2353:THR:CB	2.06	1.33
1:C:2649:LYS:O	1:C:2650:VAL:HG13	1.20	1.33
1:B:270:GLN:NE2	1:B:271:SER:H	1.22	1.33
1:B:2649:LYS:O	1:B:2650:VAL:HG13	1.20	1.33
1:D:2368:PHE:CE2	1:D:2395:HIS:CG	2.16	1.33
1:A:2583:ASN:HB3	1:B:2586:PHE:CE1	1.63	1.33
1:C:2649:LYS:O	1:C:2650:VAL:CG1	1.77	1.33
1:B:2368:PHE:CE2	1:B:2395:HIS:CD2	2.17	1.33
1:D:2368:PHE:CE2	1:D:2395:HIS:CD2	2.17	1.33
1:A:270:GLN:NE2	1:A:271:SER:H	1.22	1.32
1:C:2368:PHE:CE2	1:C:2395:HIS:CD2	2.17	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2706:MET:CG	1:B:2703:GLU:OE2	1.76	1.32
1:B:2649:LYS:O	1:B:2650:VAL:CG1	1.77	1.32
1:C:2429:ASN:OD1	1:C:2432:LYS:NZ	1.59	1.32
1:D:2348:VAL:CG1	1:D:2353:THR:CB	2.06	1.32
1:D:2348:VAL:HB	1:D:2353:THR:CB	1.60	1.32
1:D:2683:LEU:O	1:D:2684:VAL:HG22	1.30	1.32
1:B:2401:ILE:HG12	1:B:2416:LEU:CD2	1.60	1.32
1:A:2401:ILE:HG12	1:A:2416:LEU:CD2	1.60	1.32
1:C:1245:CYS:O	1:C:1247:GLY:N	1.61	1.31
1:D:510:MET:O	1:D:515:ILE:HB	1.30	1.31
1:A:2576:MET:CE	1:A:2580:ILE:HG13	1.61	1.31
1:B:2348:VAL:HB	1:B:2353:THR:CB	1.60	1.31
1:B:2368:PHE:CE2	1:B:2395:HIS:CG	2.16	1.31
1:D:2345:ILE:CD1	1:D:2356:LEU:CD2	2.08	1.31
1:D:2649:LYS:O	1:D:2650:VAL:CG1	1.77	1.31
1:C:510:MET:O	1:C:515:ILE:HB	1.30	1.31
1:C:2558:LYS:HD2	1:C:2560:GLU:OE2	1.24	1.31
1:D:573:TYR:O	1:D:577:GLN:HG3	1.24	1.31
1:D:1072:TYR:O	1:D:1076:VAL:N	1.62	1.31
1:D:1245:CYS:O	1:D:1247:GLY:N	1.61	1.31
1:D:2271:ARG:NH1	1:D:2272:ASN:ND2	1.77	1.31
1:A:2348:VAL:HB	1:A:2353:THR:CB	1.60	1.31
1:A:2368:PHE:CE2	1:A:2395:HIS:CG	2.16	1.31
1:C:2345:ILE:CD1	1:C:2356:LEU:CD2	2.08	1.31
1:B:2637:ASN:CG	1:B:2640:HIS:CD2	2.03	1.31
1:D:2429:ASN:OD1	1:D:2432:LYS:NZ	1.59	1.31
1:A:2243:PHE:CZ	1:A:2638:MET:HB3	1.66	1.30
1:A:2649:LYS:O	1:A:2650:VAL:CG1	1.77	1.30
1:B:89:LEU:CA	1:B:92:LEU:HD23	1.46	1.30
1:C:2213:PRO:CG	1:C:2647:LEU:HA	1.62	1.30
1:C:2348:VAL:HB	1:C:2353:THR:CB	1.59	1.30
1:A:1072:TYR:O	1:A:1076:VAL:N	1.62	1.30
1:A:2345:ILE:CD1	1:A:2356:LEU:CD2	2.08	1.30
1:B:1072:TYR:O	1:B:1076:VAL:N	1.62	1.30
1:C:886:ARG:O	1:C:890:ILE:N	1.65	1.30
1:D:2211:PRO:O	1:D:2647:LEU:HD22	1.31	1.30
1:C:2271:ARG:NH1	1:C:2272:ASN:ND2	1.77	1.30
1:C:2401:ILE:HG12	1:C:2416:LEU:CD2	1.60	1.30
1:B:2576:MET:CE	1:B:2580:ILE:HG13	1.60	1.30
1:A:72:PHE:CD1	1:A:93:HIS:HB2	1.67	1.29
1:A:886:ARG:O	1:A:890:ILE:N	1.65	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2243:PHE:CZ	1:B:2638:MET:HB3	1.66	1.29
1:D:2401:ILE:HG12	1:D:2416:LEU:CD2	1.60	1.29
1:D:2637:ASN:CG	1:D:2640:HIS:CD2	2.03	1.29
1:A:1245:CYS:O	1:A:1247:GLY:N	1.61	1.29
1:C:2368:PHE:HZ	1:C:2395:HIS:NE2	1.29	1.29
1:B:573:TYR:O	1:B:577:GLN:HG3	1.24	1.29
1:B:2368:PHE:HZ	1:B:2395:HIS:NE2	1.29	1.29
1:A:2559:GLU:CD	1:A:2562:LEU:HD23	1.53	1.29
1:A:2683:LEU:O	1:A:2684:VAL:HG22	1.30	1.29
1:C:2559:GLU:CD	1:C:2562:LEU:HD23	1.53	1.29
1:C:2576:MET:CE	1:C:2580:ILE:HG13	1.61	1.29
1:B:886:ARG:O	1:B:890:ILE:N	1.65	1.29
1:B:2213:PRO:CG	1:B:2647:LEU:HA	1.62	1.29
1:D:2576:MET:CE	1:D:2580:ILE:HG13	1.61	1.29
1:A:2637:ASN:ND2	1:A:2640:HIS:NE2	1.80	1.29
1:B:2559:GLU:CD	1:B:2562:LEU:HD23	1.53	1.29
1:A:300:ASN:OD1	1:D:2730:LYS:CG	1.79	1.28
1:A:2637:ASN:CG	1:A:2640:HIS:CD2	2.03	1.28
1:A:2702:LEU:HD12	1:D:2700:GLU:CG	1.33	1.28
1:C:72:PHE:CD1	1:C:93:HIS:HB2	1.67	1.28
1:B:2271:ARG:NH1	1:B:2272:ASN:ND2	1.77	1.28
1:D:2243:PHE:CZ	1:D:2638:MET:HB3	1.66	1.28
1:D:2558:LYS:HD2	1:D:2560:GLU:OE2	1.24	1.28
1:B:510:MET:O	1:B:515:ILE:HB	1.30	1.28
1:B:2345:ILE:CD1	1:B:2356:LEU:CD2	2.08	1.28
1:D:2213:PRO:CG	1:D:2647:LEU:HA	1.62	1.28
1:A:2271:ARG:NH1	1:A:2272:ASN:ND2	1.77	1.28
1:A:2583:ASN:ND2	1:B:2586:PHE:HA	1.45	1.28
1:C:2696:ARG:NH1	1:B:2696:ARG:CZ	1.91	1.28
1:A:2583:ASN:CB	1:B:2586:PHE:CE1	2.17	1.28
1:D:69:GLN:N	1:D:100:LYS:NZ	1.80	1.28
1:D:72:PHE:CD1	1:D:93:HIS:HB2	1.67	1.28
1:D:886:ARG:O	1:D:890:ILE:N	1.65	1.28
1:D:2368:PHE:HZ	1:D:2395:HIS:NE2	1.29	1.28
1:A:2213:PRO:CG	1:A:2647:LEU:HA	1.62	1.27
1:C:1356:GLN:CA	1:C:1416:ILE:O	1.82	1.27
1:C:2211:PRO:O	1:C:2647:LEU:HD22	1.32	1.27
1:C:2243:PHE:CZ	1:C:2638:MET:HB3	1.66	1.27
1:C:2348:VAL:CB	1:C:2353:THR:CB	2.12	1.27
1:C:2368:PHE:CZ	1:C:2395:HIS:NE2	2.02	1.27
1:B:72:PHE:CD1	1:B:93:HIS:HB2	1.67	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2637:ASN:ND2	1:B:2640:HIS:NE2	1.80	1.27
1:D:2637:ASN:ND2	1:D:2640:HIS:NE2	1.80	1.27
1:A:510:MET:O	1:A:515:ILE:HB	1.30	1.27
1:A:1356:GLN:CA	1:A:1416:ILE:O	1.82	1.27
1:C:2683:LEU:O	1:C:2684:VAL:HG22	1.29	1.27
1:B:2622:ASP:CG	1:B:2628:PHE:CE2	2.08	1.27
1:A:2558:LYS:HD2	1:A:2560:GLU:OE2	1.24	1.27
1:C:567:TYR:CB	1:C:571:GLN:OE1	1.83	1.27
1:C:573:TYR:O	1:C:577:GLN:HG3	1.24	1.27
1:C:2637:ASN:ND2	1:C:2640:HIS:NE2	1.80	1.27
1:D:567:TYR:CB	1:D:571:GLN:OE1	1.83	1.27
1:A:275:ALA:CB	2:A:2801:JYP:C5	2.11	1.27
1:C:2622:ASP:CG	1:C:2628:PHE:CE2	2.08	1.27
1:B:2558:LYS:HD2	1:B:2560:GLU:OE2	1.24	1.27
1:B:2637:ASN:CG	1:B:2640:HIS:HD2	1.37	1.27
1:D:275:ALA:CB	2:D:2801:JYP:C5	2.11	1.27
1:A:573:TYR:O	1:A:577:GLN:HG3	1.24	1.27
1:A:2368:PHE:HZ	1:A:2395:HIS:NE2	1.29	1.27
1:D:2649:LYS:O	1:D:2650:VAL:HG13	1.20	1.27
1:A:2211:PRO:O	1:A:2647:LEU:HD22	1.31	1.26
1:B:567:TYR:CB	1:B:571:GLN:OE1	1.83	1.26
1:A:567:TYR:CB	1:A:571:GLN:OE1	1.83	1.26
1:A:2213:PRO:CD	1:A:2647:LEU:CB	2.12	1.26
1:C:69:GLN:N	1:C:100:LYS:NZ	1.80	1.26
1:C:2586:PHE:CE1	1:B:2583:ASN:HB3	1.69	1.26
1:B:2211:PRO:O	1:B:2647:LEU:HD22	1.31	1.26
1:D:2559:GLU:CD	1:D:2562:LEU:HD23	1.53	1.26
1:A:2285:VAL:CG2	1:A:2417:LEU:HD13	1.66	1.26
1:C:2637:ASN:CG	1:C:2640:HIS:CD2	2.03	1.26
1:B:69:GLN:N	1:B:100:LYS:NZ	1.80	1.26
1:B:275:ALA:CB	2:B:2801:JYP:C5	2.11	1.26
1:B:2368:PHE:CZ	1:B:2395:HIS:NE2	2.02	1.26
1:C:275:ALA:CB	2:C:2801:JYP:C5	2.11	1.26
1:A:69:GLN:N	1:A:100:LYS:NZ	1.80	1.26
1:D:2285:VAL:CG2	1:D:2417:LEU:HD13	1.66	1.26
1:D:2573:PHE:CE1	1:D:2577:VAL:HG21	1.69	1.26
1:A:2368:PHE:CZ	1:A:2395:HIS:NE2	2.02	1.25
1:A:2713:SER:CB	1:D:2715:GLN:NE2	1.98	1.25
1:C:2573:PHE:CE1	1:C:2577:VAL:HG21	1.70	1.25
1:B:1356:GLN:CA	1:B:1416:ILE:O	1.82	1.25
1:B:2573:PHE:CE1	1:B:2577:VAL:HG21	1.70	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1356:GLN:CA	1:D:1416:ILE:O	1.82	1.25
1:D:2401:ILE:CD1	1:D:2416:LEU:HD22	1.66	1.25
1:A:2583:ASN:HB3	1:B:2586:PHE:CD1	1.71	1.25
1:A:2573:PHE:CE1	1:A:2577:VAL:HG21	1.69	1.25
1:A:2700:GLU:OE1	1:B:2699:GLN:HA	1.36	1.25
1:C:2213:PRO:CD	1:C:2647:LEU:CB	2.12	1.25
1:C:2583:ASN:OD1	1:D:2589:ILE:HG21	1.27	1.25
1:C:300:ASN:OD1	1:B:2730:LYS:HG2	1.34	1.25
1:C:2210:PHE:CE2	1:C:2647:LEU:HD21	1.71	1.25
1:B:449:ALA:O	1:B:453:LEU:CG	1.85	1.25
1:D:69:GLN:HE21	1:D:100:LYS:CD	1.50	1.25
1:D:2210:PHE:CE2	1:D:2647:LEU:HD21	1.71	1.25
1:D:2622:ASP:CG	1:D:2628:PHE:CE2	2.08	1.25
1:A:449:ALA:O	1:A:453:LEU:CG	1.85	1.25
1:A:2715:GLN:OE1	1:A:2718:GLU:OE1	1.55	1.25
1:C:69:GLN:HE21	1:C:100:LYS:CD	1.50	1.25
1:D:2368:PHE:CZ	1:D:2395:HIS:NE2	2.02	1.25
1:A:69:GLN:HE21	1:A:100:LYS:CD	1.50	1.24
1:A:2583:ASN:OD1	1:B:2589:ILE:HG21	1.34	1.24
1:A:2622:ASP:CG	1:A:2628:PHE:CE2	2.08	1.24
1:A:2637:ASN:CG	1:A:2640:HIS:HD2	1.37	1.24
1:A:2649:LYS:O	1:A:2650:VAL:HG13	1.20	1.24
1:C:1248:ASN:CA	1:C:1252:GLN:CA	2.16	1.24
1:C:2211:PRO:O	1:C:2647:LEU:CD2	1.85	1.24
1:B:69:GLN:HE21	1:B:100:LYS:CD	1.50	1.24
1:B:1248:ASN:CA	1:B:1252:GLN:CA	2.16	1.24
1:B:2213:PRO:CD	1:B:2647:LEU:CB	2.12	1.24
1:D:2211:PRO:O	1:D:2647:LEU:CD2	1.85	1.24
1:A:2178:GLY:O	1:A:2186:LEU:HD11	1.06	1.24
1:C:2403:ALA:O	1:C:2408:VAL:HG21	1.17	1.24
1:C:2583:ASN:HB3	1:D:2586:PHE:CE1	1.72	1.24
1:B:2210:PHE:CE2	1:B:2647:LEU:HD21	1.71	1.24
1:C:2285:VAL:CG2	1:C:2417:LEU:HD13	1.66	1.24
1:B:2433:SER:HB2	1:B:2593:PHE:CE2	1.66	1.24
1:A:1248:ASN:CA	1:A:1252:GLN:CA	2.15	1.24
1:A:2210:PHE:CE2	1:A:2647:LEU:HD21	1.71	1.24
1:C:2178:GLY:O	1:C:2186:LEU:CD1	1.86	1.24
1:B:2683:LEU:O	1:B:2684:VAL:HG22	1.29	1.24
1:D:449:ALA:O	1:D:453:LEU:CG	1.85	1.24
1:A:270:GLN:N	2:A:2801:JYP:N2	1.67	1.23
1:A:2178:GLY:O	1:A:2186:LEU:CD1	1.86	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:514:ASN:ND2	1:C:517:LYS:CD	1.93	1.23
1:B:2401:ILE:CD1	1:B:2416:LEU:HD22	1.66	1.23
1:D:2178:GLY:O	1:D:2186:LEU:HD11	1.06	1.23
1:A:2677:ARG:HD3	1:B:2623:ASN:OD1	1.36	1.23
1:C:2213:PRO:CG	1:C:2647:LEU:CB	2.17	1.23
1:D:449:ALA:O	1:D:453:LEU:HG	1.08	1.23
1:D:2715:GLN:OE1	1:D:2718:GLU:OE1	1.55	1.23
1:A:2288:ASN:CB	1:A:2413:TYR:HB3	1.68	1.23
1:C:2401:ILE:CD1	1:C:2416:LEU:HD22	1.66	1.23
1:C:2586:PHE:CE1	1:B:2583:ASN:CB	2.21	1.23
1:C:2715:GLN:OE1	1:C:2718:GLU:OE1	1.55	1.23
1:B:2213:PRO:CG	1:B:2647:LEU:CB	2.17	1.23
1:B:2285:VAL:CG2	1:B:2417:LEU:HD13	1.66	1.23
1:A:2713:SER:HB2	1:D:2715:GLN:NE2	1.49	1.23
1:B:2288:ASN:CB	1:B:2413:TYR:HB3	1.68	1.23
1:A:2589:ILE:HG21	1:D:2583:ASN:OD1	1.37	1.23
1:B:2715:GLN:OE1	1:B:2718:GLU:OE1	1.55	1.23
1:D:2178:GLY:O	1:D:2186:LEU:CD1	1.86	1.23
1:D:2178:GLY:CA	1:D:2186:LEU:HD21	1.68	1.23
1:D:2213:PRO:CD	1:D:2647:LEU:CB	2.12	1.23
1:C:449:ALA:O	1:C:453:LEU:CG	1.85	1.22
1:C:1302:HIS:CA	1:B:144:LYS:CB	2.16	1.22
1:B:2178:GLY:O	1:B:2186:LEU:CD1	1.86	1.22
1:B:2348:VAL:CB	1:B:2353:THR:CB	2.12	1.22
1:D:1248:ASN:CA	1:D:1252:GLN:CA	2.16	1.22
1:A:2401:ILE:CD1	1:A:2416:LEU:HD22	1.66	1.22
1:C:449:ALA:O	1:C:453:LEU:HG	1.08	1.22
1:C:2178:GLY:O	1:C:2186:LEU:HD11	1.06	1.22
1:B:2211:PRO:O	1:B:2647:LEU:CD2	1.85	1.22
1:B:2559:GLU:OE1	1:B:2562:LEU:CD2	1.87	1.22
1:A:2559:GLU:OE1	1:A:2562:LEU:CD2	1.87	1.22
1:B:2178:GLY:O	1:B:2186:LEU:HD11	1.06	1.22
1:D:442:ASP:OD1	1:D:483:PHE:CE2	1.93	1.22
1:A:442:ASP:OD1	1:A:483:PHE:CE2	1.93	1.22
1:D:2348:VAL:CG2	1:D:2353:THR:HG21	1.70	1.22
1:A:449:ALA:O	1:A:453:LEU:HG	1.08	1.21
1:B:2178:GLY:CA	1:B:2186:LEU:HD21	1.68	1.21
1:D:2288:ASN:CB	1:D:2413:TYR:HB3	1.68	1.21
1:D:2622:ASP:OD1	1:D:2628:PHE:CE1	1.94	1.21
1:A:2213:PRO:CG	1:A:2647:LEU:CB	2.17	1.21
1:B:449:ALA:O	1:B:453:LEU:HG	1.08	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2559:GLU:OE1	1:D:2562:LEU:CD2	1.87	1.21
1:D:2637:ASN:CG	1:D:2640:HIS:HD2	1.37	1.21
1:A:2211:PRO:O	1:A:2647:LEU:CD2	1.85	1.21
1:C:2348:VAL:CG2	1:C:2353:THR:HG21	1.70	1.21
1:B:2348:VAL:CB	1:B:2353:THR:CG2	2.19	1.21
1:B:2348:VAL:CG2	1:B:2353:THR:HG21	1.70	1.21
1:A:2178:GLY:CA	1:A:2186:LEU:HD21	1.68	1.21
1:A:2622:ASP:OD1	1:A:2628:PHE:CE1	1.94	1.21
1:C:2622:ASP:OD1	1:C:2628:PHE:CE1	1.94	1.21
1:D:2213:PRO:CG	1:D:2647:LEU:CB	2.17	1.21
1:D:2348:VAL:CB	1:D:2353:THR:CG2	2.19	1.21
1:C:2348:VAL:CB	1:C:2353:THR:CG2	2.19	1.21
1:C:2559:GLU:OE1	1:C:2562:LEU:CD2	1.87	1.21
1:B:442:ASP:OD1	1:B:483:PHE:CE2	1.93	1.21
1:B:2559:GLU:CD	1:B:2562:LEU:CD2	2.09	1.21
1:C:270:GLN:NE2	1:C:271:SER:N	1.89	1.20
1:A:2559:GLU:CD	1:A:2562:LEU:CD2	2.09	1.20
1:C:2288:ASN:CB	1:C:2413:TYR:HB3	1.68	1.20
1:B:2243:PHE:CE1	1:B:2642:LEU:CD1	1.95	1.20
1:A:2348:VAL:CG2	1:A:2353:THR:HG21	1.70	1.20
1:C:2178:GLY:CA	1:C:2186:LEU:HD21	1.68	1.20
1:A:2348:VAL:CB	1:A:2353:THR:CG2	2.19	1.20
1:A:2700:GLU:HG2	1:B:2702:LEU:CD1	1.53	1.20
1:A:2700:GLU:CD	1:B:2702:LEU:HD12	1.47	1.20
1:C:442:ASP:OD1	1:C:483:PHE:CE2	1.93	1.20
1:C:2559:GLU:CD	1:C:2562:LEU:CD2	2.09	1.20
1:D:2348:VAL:CB	1:D:2353:THR:CB	2.12	1.20
1:D:2559:GLU:CD	1:D:2562:LEU:CD2	2.09	1.20
1:B:2622:ASP:OD1	1:B:2628:PHE:CE1	1.94	1.20
1:A:270:GLN:O	1:A:272:ALA:N	1.75	1.19
1:C:2637:ASN:CG	1:C:2640:HIS:HD2	1.37	1.19
1:D:2403:ALA:O	1:D:2408:VAL:HG21	1.16	1.19
1:A:2243:PHE:CE2	1:A:2638:MET:HB3	1.77	1.19
1:A:2433:SER:HB2	1:A:2593:PHE:CE2	1.66	1.19
1:C:2700:GLU:OE1	1:D:2699:GLN:HA	1.41	1.19
1:D:514:ASN:ND2	1:D:517:LYS:CD	1.93	1.19
1:D:514:ASN:ND2	1:D:517:LYS:HD2	1.21	1.19
1:C:2243:PHE:CE1	1:C:2642:LEU:CD1	1.95	1.19
1:C:2710:THR:CB	1:B:2707:LYS:HZ1	1.44	1.19
1:D:2359:ALA:O	1:D:2363:CYS:SG	2.01	1.19
1:D:2649:LYS:O	1:D:2650:VAL:HG22	1.42	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:GLN:NE2	1:A:271:SER:N	1.89	1.19
1:A:514:ASN:ND2	1:A:517:LYS:CD	1.93	1.19
1:B:2287:MET:O	1:B:2290:LEU:HB3	1.42	1.19
1:A:2559:GLU:CG	1:A:2562:LEU:HD23	1.73	1.19
1:C:2559:GLU:CG	1:C:2562:LEU:HD23	1.73	1.19
1:A:2359:ALA:O	1:A:2363:CYS:SG	2.01	1.18
1:B:270:GLN:O	1:B:272:ALA:N	1.75	1.18
1:B:2359:ALA:O	1:B:2363:CYS:SG	2.01	1.18
1:B:2559:GLU:CG	1:B:2562:LEU:HD23	1.73	1.18
1:D:270:GLN:NE2	1:D:271:SER:N	1.89	1.18
1:A:2412:PHE:O	1:A:2414:SER:N	1.77	1.18
1:A:2707:LYS:HE2	1:B:2706:MET:O	1.43	1.18
1:B:567:TYR:HB3	1:B:571:GLN:OE1	1.00	1.18
1:D:2273:MET:HB2	1:D:2371:SER:OG	1.43	1.18
1:D:2287:MET:O	1:D:2290:LEU:HB3	1.41	1.18
1:A:563:SER:O	1:A:567:TYR:HD2	1.27	1.18
1:C:2359:ALA:O	1:C:2363:CYS:SG	2.01	1.18
1:B:270:GLN:NE2	1:B:271:SER:N	1.89	1.18
1:B:2243:PHE:CE2	1:B:2638:MET:HB3	1.77	1.18
1:A:2584:LEU:HD11	1:B:2434:VAL:CG2	1.73	1.18
1:C:2243:PHE:CE2	1:C:2638:MET:HB3	1.77	1.18
1:B:563:SER:O	1:B:567:TYR:HD2	1.27	1.18
1:A:32:LEU:CB	1:A:445:PHE:CG	2.27	1.18
1:A:2699:GLN:HA	1:D:2700:GLU:OE1	1.42	1.18
1:B:78:PRO:O	1:B:81:ASN:O	1.62	1.18
1:A:78:PRO:O	1:A:81:ASN:O	1.62	1.17
1:B:2649:LYS:O	1:B:2650:VAL:HG22	1.43	1.17
1:D:32:LEU:CB	1:D:445:PHE:CG	2.27	1.17
1:D:563:SER:O	1:D:567:TYR:HD2	1.27	1.17
1:A:2287:MET:O	1:A:2290:LEU:HB3	1.41	1.17
1:C:567:TYR:HB3	1:C:571:GLN:OE1	1.00	1.17
1:C:2412:PHE:O	1:C:2414:SER:N	1.77	1.17
1:D:78:PRO:O	1:D:81:ASN:O	1.62	1.17
1:D:2345:ILE:HD13	1:D:2356:LEU:CD2	1.73	1.17
1:A:2348:VAL:CB	1:A:2353:THR:CB	2.12	1.17
1:C:270:GLN:O	1:C:272:ALA:N	1.75	1.17
1:C:270:GLN:N	2:C:2801:JYP:N2	1.67	1.17
1:C:2213:PRO:CG	1:C:2647:LEU:HB2	1.75	1.17
1:C:2273:MET:HB2	1:C:2371:SER:OG	1.43	1.17
1:B:2637:ASN:CB	1:B:2640:HIS:HD2	1.58	1.17
1:D:2243:PHE:CE2	1:D:2638:MET:HB3	1.77	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2368:PHE:CZ	1:A:2395:HIS:CD2	2.33	1.17
1:A:2403:ALA:O	1:A:2408:VAL:HG21	1.17	1.17
1:A:2637:ASN:CB	1:A:2640:HIS:HD2	1.58	1.17
1:C:78:PRO:O	1:C:81:ASN:O	1.62	1.17
1:B:570:ASN:HB3	1:B:571:GLN:OE1	1.44	1.17
1:D:270:GLN:O	1:D:272:ALA:N	1.75	1.17
1:D:2412:PHE:O	1:D:2414:SER:N	1.77	1.17
1:D:2559:GLU:CG	1:D:2562:LEU:HD23	1.73	1.17
1:C:2452:VAL:HG23	1:C:2573:PHE:CE1	1.80	1.17
1:C:2560:GLU:CG	1:C:2563:PHE:CE2	2.28	1.17
1:A:567:TYR:HB3	1:A:571:GLN:OE1	1.00	1.16
1:C:32:LEU:CB	1:C:445:PHE:CG	2.27	1.16
1:C:2239:LYS:HG2	1:C:2240:ILE:H	1.04	1.16
1:C:2433:SER:HB2	1:C:2593:PHE:CE2	1.66	1.16
1:B:2412:PHE:O	1:B:2414:SER:N	1.77	1.16
1:D:2368:PHE:HE2	1:D:2395:HIS:CD2	1.60	1.16
1:A:574:ILE:HA	1:A:577:GLN:OE1	1.43	1.16
1:A:2288:ASN:ND2	1:A:2417:LEU:HB2	1.59	1.16
1:A:2706:MET:HG3	1:D:2703:GLU:OE2	0.99	1.16
1:C:570:ASN:HB3	1:C:571:GLN:OE1	1.44	1.16
1:B:2612:PHE:CE2	1:B:2638:MET:SD	2.38	1.16
1:D:2213:PRO:CG	1:D:2647:LEU:HB2	1.75	1.16
1:C:563:SER:O	1:C:567:TYR:HD2	1.27	1.16
1:C:2239:LYS:HG2	1:C:2240:ILE:HG13	1.18	1.16
1:C:2649:LYS:O	1:C:2650:VAL:HG22	1.42	1.16
1:C:2706:MET:HG3	1:B:2703:GLU:OE2	0.98	1.16
1:B:32:LEU:CB	1:B:445:PHE:CG	2.27	1.16
1:B:2403:ALA:O	1:B:2408:VAL:HG21	1.16	1.16
1:B:2649:LYS:O	1:B:2650:VAL:CG2	1.94	1.16
1:D:2560:GLU:CG	1:D:2563:PHE:CE2	2.28	1.16
1:A:2700:GLU:HG3	1:B:2702:LEU:HD13	1.18	1.16
1:C:2272:ASN:C	1:C:2276:TRP:CD1	2.18	1.16
1:B:567:TYR:HA	2:B:2801:JYP:O9	1.45	1.16
1:B:2213:PRO:CG	1:B:2647:LEU:HB2	1.74	1.16
1:B:2272:ASN:C	1:B:2276:TRP:CD1	2.18	1.16
1:B:2368:PHE:CZ	1:B:2395:HIS:CD2	2.33	1.16
1:D:2452:VAL:HG23	1:D:2573:PHE:CE1	1.80	1.16
1:D:2637:ASN:CB	1:D:2640:HIS:HD2	1.58	1.16
1:A:567:TYR:HA	2:A:2801:JYP:O9	1.45	1.16
1:C:2637:ASN:CB	1:C:2640:HIS:HD2	1.58	1.16
1:B:514:ASN:ND2	1:B:517:LYS:CD	1.93	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1619:VAL:O	1:B:1621:ALA:N	1.79	1.16
1:B:2452:VAL:HG23	1:B:2573:PHE:CE1	1.80	1.16
1:D:2368:PHE:CZ	1:D:2395:HIS:CD2	2.33	1.16
1:A:2273:MET:HB2	1:A:2371:SER:OG	1.43	1.15
1:A:2368:PHE:HE2	1:A:2395:HIS:CD2	1.60	1.15
1:B:68:ALA:HB3	1:B:99:GLU:OE1	1.46	1.15
1:B:2368:PHE:HE2	1:B:2395:HIS:CD2	1.60	1.15
1:B:2433:SER:HB3	1:B:2593:PHE:CZ	1.70	1.15
1:D:567:TYR:HB3	1:D:571:GLN:OE1	1.00	1.15
1:D:2348:VAL:HG21	1:D:2353:THR:CG2	1.76	1.15
1:D:2433:SER:HB2	1:D:2593:PHE:CE2	1.66	1.15
1:C:2287:MET:O	1:C:2290:LEU:HB3	1.41	1.15
1:C:2288:ASN:ND2	1:C:2417:LEU:HB2	1.60	1.15
1:B:574:ILE:HA	1:B:577:GLN:OE1	1.43	1.15
1:B:2345:ILE:HD13	1:B:2356:LEU:HD21	1.26	1.15
1:A:2452:VAL:HG23	1:A:2573:PHE:CE1	1.80	1.15
1:C:2649:LYS:O	1:C:2650:VAL:CG2	1.93	1.15
1:B:514:ASN:ND2	1:B:517:LYS:HD2	1.21	1.15
1:A:2559:GLU:OE1	1:A:2562:LEU:HD21	1.45	1.15
1:A:2612:PHE:CE2	1:A:2638:MET:SD	2.38	1.15
1:C:514:ASN:ND2	1:C:517:LYS:HD2	1.21	1.15
1:C:2348:VAL:HG21	1:C:2353:THR:CG2	1.76	1.15
1:C:2368:PHE:CZ	1:C:2395:HIS:CD2	2.33	1.15
1:B:2361:ASN:ND2	1:B:2401:ILE:HD11	1.61	1.15
1:D:570:ASN:HB3	1:D:571:GLN:OE1	1.44	1.15
1:D:574:ILE:HA	1:D:577:GLN:OE1	1.43	1.15
1:D:2612:PHE:CE2	1:D:2638:MET:SD	2.38	1.15
1:A:2213:PRO:HG2	1:A:2647:LEU:CA	1.77	1.15
1:A:2348:VAL:HG21	1:A:2353:THR:CG2	1.76	1.15
1:B:2273:MET:HB2	1:B:2371:SER:OG	1.43	1.15
1:D:1619:VAL:O	1:D:1621:ALA:N	1.79	1.15
1:D:2288:ASN:ND2	1:D:2417:LEU:HB2	1.59	1.15
1:D:2345:ILE:HD11	1:D:2356:LEU:CD2	1.75	1.15
1:D:2559:GLU:OE1	1:D:2562:LEU:HD21	1.45	1.15
1:D:2649:LYS:O	1:D:2650:VAL:CG2	1.93	1.15
1:A:32:LEU:CB	1:A:445:PHE:CD1	2.30	1.14
1:C:68:ALA:HB3	1:C:99:GLU:OE1	1.46	1.14
1:C:2213:PRO:CG	1:C:2647:LEU:CA	2.25	1.14
1:C:2345:ILE:HG23	1:C:2353:THR:OG1	1.45	1.14
1:D:2271:ARG:NH1	1:D:2272:ASN:HD21	1.38	1.14
1:A:2213:PRO:CG	1:A:2647:LEU:CA	2.25	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2285:VAL:HG21	1:C:2417:LEU:HD13	1.14	1.14
1:C:2612:PHE:CE2	1:C:2638:MET:SD	2.38	1.14
1:B:460:LEU:HD23	1:B:465:ILE:HG23	1.15	1.14
1:B:2288:ASN:ND2	1:B:2417:LEU:HB2	1.59	1.14
1:B:2559:GLU:OE1	1:B:2562:LEU:HD21	1.45	1.14
1:D:2345:ILE:HG23	1:D:2353:THR:OG1	1.45	1.14
1:A:89:LEU:C	1:A:92:LEU:HD23	1.58	1.14
1:A:2243:PHE:CE1	1:A:2642:LEU:CD1	1.95	1.14
1:A:2573:PHE:CZ	1:A:2577:VAL:HG21	1.82	1.14
1:C:2213:PRO:HG2	1:C:2647:LEU:CA	1.77	1.14
1:A:68:ALA:HB3	1:A:99:GLU:OE1	1.46	1.14
1:A:570:ASN:HB3	1:A:571:GLN:OE1	1.44	1.14
1:A:2649:LYS:O	1:A:2650:VAL:CG2	1.93	1.14
1:C:32:LEU:CB	1:C:445:PHE:CD1	2.30	1.14
1:C:574:ILE:HA	1:C:577:GLN:OE1	1.43	1.14
1:C:2361:ASN:ND2	1:C:2401:ILE:HD11	1.62	1.14
1:D:68:ALA:HB3	1:D:99:GLU:OE1	1.46	1.14
1:D:89:LEU:C	1:D:92:LEU:HD23	1.58	1.14
1:D:2213:PRO:HG2	1:D:2647:LEU:CA	1.77	1.14
1:D:2713:SER:O	1:D:2716:LEU:HG	1.46	1.14
1:A:460:LEU:HD23	1:A:465:ILE:HG23	1.16	1.14
1:A:1302:HIS:CA	1:D:144:LYS:CB	2.26	1.14
1:A:1619:VAL:O	1:A:1621:ALA:N	1.79	1.14
1:A:2702:LEU:CD1	1:D:2700:GLU:HG2	1.74	1.14
1:C:1619:VAL:O	1:C:1621:ALA:N	1.79	1.14
1:C:2573:PHE:CZ	1:C:2577:VAL:HG21	1.83	1.14
1:A:2649:LYS:O	1:A:2650:VAL:HG22	1.43	1.13
1:B:32:LEU:CB	1:B:445:PHE:CD1	2.30	1.13
1:B:2213:PRO:CG	1:B:2647:LEU:CA	2.25	1.13
1:B:2288:ASN:HD21	1:B:2417:LEU:HB2	0.97	1.13
1:D:32:LEU:CB	1:D:445:PHE:CD1	2.30	1.13
1:D:2213:PRO:CG	1:D:2647:LEU:CA	2.25	1.13
1:D:2243:PHE:CE1	1:D:2642:LEU:CD1	1.95	1.13
1:A:2345:ILE:HG23	1:A:2353:THR:OG1	1.45	1.13
1:A:2560:GLU:HG3	1:A:2563:PHE:HE2	1.01	1.13
1:C:2345:ILE:HD11	1:C:2356:LEU:CD2	1.75	1.13
1:C:2434:VAL:HG21	1:B:2584:LEU:HD11	1.24	1.13
1:B:2345:ILE:HG23	1:B:2353:THR:OG1	1.45	1.13
1:B:2348:VAL:HG21	1:B:2353:THR:CG2	1.76	1.13
1:D:1317:LYS:C	1:D:1385:CYS:O	1.86	1.13
1:C:2559:GLU:OE1	1:C:2562:LEU:HD21	1.45	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:567:TYR:HB3	1:B:571:GLN:CD	1.69	1.13
1:B:2626:VAL:HG12	1:B:2627:THR:N	1.15	1.13
1:B:2649:LYS:O	1:B:2650:VAL:CB	1.96	1.13
1:D:270:GLN:N	2:D:2801:JYP:N2	1.67	1.13
1:D:460:LEU:HD23	1:D:465:ILE:HG23	1.15	1.13
1:A:300:ASN:OD1	1:D:2730:LYS:CB	1.96	1.13
1:A:514:ASN:ND2	1:A:517:LYS:HD2	1.21	1.13
1:A:2272:ASN:C	1:A:2276:TRP:CD1	2.18	1.13
1:A:2361:ASN:ND2	1:A:2401:ILE:HD11	1.62	1.13
1:C:567:TYR:HA	2:C:2801:JYP:O9	1.45	1.13
1:B:1097:PHE:O	1:B:1099:GLN:N	1.82	1.13
1:B:2213:PRO:HG2	1:B:2647:LEU:HA	1.14	1.13
1:D:2573:PHE:CZ	1:D:2577:VAL:HG21	1.82	1.13
1:D:2654:THR:O	1:D:2657:THR:HG22	1.33	1.13
1:C:300:ASN:OD1	1:B:2730:LYS:CG	1.97	1.13
1:C:460:LEU:HD23	1:C:465:ILE:HG23	1.15	1.13
1:C:567:TYR:HB3	1:C:571:GLN:CD	1.69	1.13
1:C:2288:ASN:HD21	1:C:2417:LEU:HB2	0.97	1.13
1:A:564:GLN:HB3	1:A:574:ILE:HD12	1.31	1.12
1:A:1097:PHE:O	1:A:1099:GLN:N	1.82	1.12
1:A:1317:LYS:C	1:A:1385:CYS:O	1.86	1.13
1:A:2345:ILE:HD13	1:A:2356:LEU:CD2	1.73	1.12
1:A:2713:SER:O	1:A:2716:LEU:HG	1.46	1.13
1:C:2713:SER:O	1:C:2716:LEU:HG	1.46	1.13
1:D:2285:VAL:HG21	1:D:2417:LEU:HD13	1.14	1.13
1:D:2361:ASN:ND2	1:D:2401:ILE:HD11	1.62	1.13
1:B:2213:PRO:HG2	1:B:2647:LEU:CA	1.77	1.12
1:D:2213:PRO:HG2	1:D:2647:LEU:HA	1.14	1.12
1:A:2213:PRO:CG	1:A:2647:LEU:HB2	1.75	1.12
1:A:2700:GLU:HG3	1:B:2702:LEU:CD1	1.70	1.12
1:C:1317:LYS:C	1:C:1385:CYS:O	1.86	1.12
1:C:2589:ILE:HG21	1:B:2583:ASN:OD1	1.49	1.12
1:D:567:TYR:HB3	1:D:571:GLN:CD	1.69	1.12
1:D:2384:ARG:O	1:D:2388:LEU:CD2	1.98	1.12
1:A:2384:ARG:O	1:A:2388:LEU:CD2	1.97	1.12
1:C:1097:PHE:O	1:C:1099:GLN:N	1.82	1.12
1:C:2368:PHE:HE2	1:C:2395:HIS:CD2	1.60	1.12
1:B:564:GLN:HB3	1:B:574:ILE:HD12	1.31	1.12
1:B:2345:ILE:HD11	1:B:2356:LEU:CD2	1.75	1.12
1:B:2560:GLU:HG3	1:B:2563:PHE:HE2	1.00	1.12
1:D:567:TYR:HA	2:D:2801:JYP:O9	1.45	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1097:PHE:O	1:D:1099:GLN:N	1.82	1.12
1:A:564:GLN:CB	1:A:574:ILE:HD12	1.79	1.12
1:A:771:GLU:O	1:A:773:LEU:N	1.83	1.12
1:A:2433:SER:HB3	1:A:2593:PHE:CZ	1.70	1.12
1:C:771:GLU:O	1:C:773:LEU:N	1.83	1.12
1:C:2710:THR:HB	1:B:2707:LYS:NZ	0.79	1.12
1:B:2573:PHE:CZ	1:B:2577:VAL:HG21	1.83	1.12
1:D:771:GLU:O	1:D:773:LEU:N	1.83	1.12
1:D:2210:PHE:CE2	1:D:2647:LEU:CD2	2.32	1.12
1:A:2239:LYS:HG2	1:A:2240:ILE:HG13	1.18	1.12
1:B:2285:VAL:HG21	1:B:2417:LEU:HD13	1.14	1.12
1:D:2622:ASP:OD2	1:D:2628:PHE:CZ	2.03	1.12
1:C:2210:PHE:CE2	1:C:2647:LEU:CD2	2.32	1.11
1:C:2558:LYS:HD2	1:C:2560:GLU:CD	1.71	1.11
1:B:457:ALA:CB	1:B:521:LYS:HG3	1.80	1.11
1:B:1317:LYS:C	1:B:1385:CYS:O	1.86	1.11
1:B:2713:SER:O	1:B:2716:LEU:HG	1.46	1.11
1:D:2272:ASN:C	1:D:2276:TRP:CD1	2.18	1.11
1:D:2626:VAL:HG12	1:D:2627:THR:N	1.15	1.11
1:C:457:ALA:CB	1:C:521:LYS:HG3	1.80	1.11
1:C:2583:ASN:CB	1:D:2586:PHE:CE1	2.31	1.11
1:B:2239:LYS:HG2	1:B:2240:ILE:H	1.04	1.11
1:B:2560:GLU:CG	1:B:2563:PHE:CE2	2.28	1.11
1:C:2348:VAL:CG1	1:C:2353:THR:OG1	1.98	1.11
1:B:510:MET:O	1:B:515:ILE:CB	1.99	1.11
1:B:2384:ARG:O	1:B:2388:LEU:CD2	1.97	1.11
1:B:2558:LYS:HD2	1:B:2560:GLU:CD	1.71	1.11
1:A:510:MET:O	1:A:515:ILE:CB	1.99	1.11
1:A:567:TYR:HB3	1:A:571:GLN:CD	1.69	1.11
1:C:564:GLN:CB	1:C:574:ILE:HD12	1.79	1.11
1:C:2384:ARG:O	1:C:2388:LEU:CD2	1.97	1.11
1:C:2649:LYS:O	1:C:2650:VAL:CB	1.96	1.11
1:C:2713:SER:HB2	1:B:2715:GLN:NE2	1.65	1.11
1:B:2210:PHE:CE2	1:B:2647:LEU:CD2	2.32	1.11
1:C:2626:VAL:HG12	1:C:2627:THR:N	1.15	1.11
1:B:2348:VAL:CG1	1:B:2353:THR:OG1	1.99	1.11
1:B:2654:THR:O	1:B:2657:THR:HG22	1.33	1.11
1:D:564:GLN:CB	1:D:574:ILE:HD12	1.79	1.11
1:D:2216:CYS:SG	1:D:2646:VAL:CG2	2.39	1.11
1:D:2239:LYS:HG2	1:D:2240:ILE:H	1.04	1.11
1:D:2239:LYS:HG2	1:D:2240:ILE:HG13	1.18	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2702:LEU:HD12	1:D:2700:GLU:HG2	1.29	1.10
1:C:2062:GLY:O	1:C:2064:ASP:N	1.83	1.10
1:C:2216:CYS:SG	1:C:2646:VAL:CG2	2.39	1.10
1:C:2713:SER:CB	1:B:2715:GLN:NE2	2.14	1.10
1:B:270:GLN:N	2:B:2801:JYP:N2	1.67	1.10
1:B:564:GLN:CB	1:B:574:ILE:HD12	1.79	1.10
1:B:885:LEU:O	1:B:889:LYS:N	1.84	1.10
1:B:1334:LEU:O	1:B:1337:SER:C	1.90	1.10
1:D:564:GLN:HB3	1:D:574:ILE:HD12	1.31	1.10
1:D:2348:VAL:CG1	1:D:2353:THR:OG1	1.99	1.10
1:D:2558:LYS:HD2	1:D:2560:GLU:CD	1.71	1.10
1:C:510:MET:O	1:C:515:ILE:CB	1.99	1.10
1:A:2200:ARG:HB2	1:A:2662:TYR:CE2	1.87	1.10
1:A:2288:ASN:HD21	1:A:2417:LEU:HB2	0.97	1.10
1:A:2560:GLU:CG	1:A:2563:PHE:CE2	2.28	1.10
1:C:768:MET:CA	1:C:776:ASP:CA	2.30	1.10
1:C:2560:GLU:HG3	1:C:2563:PHE:HE2	1.00	1.10
1:B:2216:CYS:SG	1:B:2646:VAL:CG2	2.39	1.10
1:D:768:MET:CA	1:D:776:ASP:CA	2.30	1.10
1:D:2622:ASP:CG	1:D:2628:PHE:CD2	2.25	1.10
1:D:2654:THR:O	1:D:2657:THR:HG23	1.46	1.10
1:A:2210:PHE:CE2	1:A:2647:LEU:CD2	2.32	1.10
1:A:2216:CYS:SG	1:A:2646:VAL:CG2	2.39	1.10
1:A:2239:LYS:HG2	1:A:2240:ILE:H	1.04	1.10
1:A:2622:ASP:OD2	1:A:2628:PHE:CZ	2.03	1.10
1:B:2622:ASP:OD2	1:B:2628:PHE:CZ	2.03	1.10
1:D:885:LEU:O	1:D:889:LYS:N	1.84	1.10
1:D:1334:LEU:O	1:D:1337:SER:C	1.90	1.10
1:D:2273:MET:SD	1:D:2375:ASN:ND2	2.22	1.10
1:A:1334:LEU:O	1:A:1337:SER:C	1.90	1.10
1:C:2271:ARG:NH1	1:C:2272:ASN:HD21	1.39	1.10
1:B:2200:ARG:HB2	1:B:2662:TYR:CE2	1.87	1.10
1:D:457:ALA:CB	1:D:521:LYS:HG3	1.80	1.10
1:D:2348:VAL:CG2	1:D:2353:THR:CG2	2.30	1.10
1:A:2345:ILE:HD11	1:A:2356:LEU:CD2	1.74	1.09
1:C:885:LEU:O	1:C:889:LYS:N	1.84	1.09
1:B:573:TYR:O	1:B:577:GLN:CG	2.01	1.09
1:B:768:MET:CA	1:B:776:ASP:CA	2.30	1.09
1:B:2622:ASP:CG	1:B:2628:PHE:CD2	2.25	1.09
1:D:2560:GLU:HG3	1:D:2563:PHE:HE2	1.01	1.09
1:A:457:ALA:CB	1:A:521:LYS:HG3	1.80	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2285:VAL:HG21	1:A:2417:LEU:HD13	1.14	1.09
1:A:2586:PHE:CE1	1:D:2583:ASN:HB3	1.85	1.09
1:A:2612:PHE:CE1	1:A:2638:MET:SD	2.44	1.09
1:C:2345:ILE:HD13	1:C:2356:LEU:CD2	1.73	1.09
1:C:2622:ASP:OD2	1:C:2628:PHE:CZ	2.03	1.09
1:B:771:GLU:O	1:B:773:LEU:N	1.83	1.09
1:B:2062:GLY:O	1:B:2064:ASP:N	1.83	1.09
1:B:2348:VAL:CG2	1:B:2353:THR:CG2	2.30	1.09
1:D:2210:PHE:CD2	1:D:2647:LEU:HD23	1.87	1.09
1:A:2236:GLN:HB3	1:B:2619:ASP:OD1	1.53	1.09
1:A:2348:VAL:CG2	1:A:2353:THR:CG2	2.30	1.09
1:B:2654:THR:O	1:B:2657:THR:HG23	1.46	1.09
1:D:299:TRP:CH2	1:D:380:SER:HB3	1.88	1.09
1:D:573:TYR:O	1:D:577:GLN:CG	2.01	1.09
1:A:2348:VAL:CG1	1:A:2353:THR:OG1	1.99	1.09
1:C:1334:LEU:O	1:C:1337:SER:C	1.90	1.09
1:C:2348:VAL:CG2	1:C:2353:THR:CG2	2.30	1.09
1:C:2583:ASN:ND2	1:D:2586:PHE:HA	1.68	1.09
1:B:2612:PHE:CE1	1:B:2638:MET:SD	2.44	1.09
1:D:567:TYR:CB	1:D:571:GLN:CD	2.20	1.09
1:D:2213:PRO:HG3	1:D:2647:LEU:HD12	1.35	1.09
1:D:2612:PHE:CE1	1:D:2638:MET:SD	2.44	1.09
1:A:299:TRP:CH2	1:A:380:SER:HB3	1.88	1.09
1:A:768:MET:CA	1:A:776:ASP:CA	2.30	1.09
1:A:885:LEU:O	1:A:889:LYS:N	1.84	1.09
1:A:1619:VAL:O	1:A:1622:GLU:N	1.86	1.09
1:A:2062:GLY:O	1:A:2064:ASP:N	1.83	1.09
1:C:1619:VAL:O	1:C:1622:GLU:N	1.86	1.09
1:C:2200:ARG:HB2	1:C:2662:TYR:CE2	1.87	1.09
1:C:2210:PHE:CD2	1:C:2647:LEU:HD23	1.87	1.09
1:B:2210:PHE:CD2	1:B:2647:LEU:HD23	1.87	1.09
1:D:510:MET:O	1:D:515:ILE:CB	1.99	1.09
1:D:2200:ARG:HB2	1:D:2662:TYR:CE2	1.87	1.09
1:A:2558:LYS:HD2	1:A:2560:GLU:CD	1.71	1.08
1:A:2622:ASP:CG	1:A:2628:PHE:CD2	2.25	1.08
1:C:2433:SER:HB3	1:C:2593:PHE:CZ	1.70	1.08
1:B:299:TRP:CH2	1:B:380:SER:HB3	1.88	1.08
1:D:486:GLY:HA2	1:D:510:MET:SD	1.93	1.08
1:A:2210:PHE:CD2	1:A:2647:LEU:HD23	1.87	1.08
1:A:2584:LEU:CD1	1:B:2434:VAL:HG21	1.82	1.08
1:A:2716:LEU:HD23	1:A:2716:LEU:H	1.19	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2348:VAL:HG11	1:C:2353:THR:OG1	1.53	1.08
1:C:2612:PHE:CE1	1:C:2638:MET:SD	2.44	1.08
1:B:2348:VAL:HG11	1:B:2353:THR:OG1	1.53	1.08
1:D:2062:GLY:O	1:D:2064:ASP:N	1.83	1.08
1:A:2271:ARG:NH1	1:A:2272:ASN:HD21	1.39	1.08
1:A:2654:THR:O	1:A:2657:THR:HG23	1.46	1.08
1:A:2677:ARG:HH21	1:B:2623:ASN:CG	1.57	1.08
1:C:2213:PRO:HG2	1:C:2647:LEU:HA	1.14	1.08
1:B:2345:ILE:HD13	1:B:2356:LEU:CD2	1.73	1.08
1:B:2348:VAL:HG11	1:B:2353:THR:CB	1.84	1.08
1:D:2649:LYS:O	1:D:2650:VAL:CB	1.96	1.08
1:A:275:ALA:HB2	2:A:2801:JYP:N4	1.69	1.08
1:A:486:GLY:HA2	1:A:510:MET:SD	1.93	1.08
1:A:2384:ARG:O	1:A:2388:LEU:HD21	1.53	1.08
1:C:573:TYR:O	1:C:577:GLN:CG	2.01	1.08
1:C:2696:ARG:NH1	1:B:2696:ARG:NH2	1.98	1.08
1:B:442:ASP:OD1	1:B:483:PHE:HE2	1.31	1.08
1:B:2348:VAL:HG21	1:B:2353:THR:HG21	1.11	1.08
1:D:1619:VAL:O	1:D:1622:GLU:N	1.86	1.08
1:D:2560:GLU:HG3	1:D:2563:PHE:CE2	1.75	1.08
1:D:2622:ASP:HB3	1:D:2628:PHE:CD2	1.89	1.08
1:A:2178:GLY:HA2	1:A:2186:LEU:CD2	1.84	1.08
1:A:2213:PRO:HG2	1:A:2647:LEU:HA	1.14	1.08
1:A:2348:VAL:HG11	1:A:2353:THR:OG1	1.53	1.08
1:A:2434:VAL:HG21	1:D:2584:LEU:HD11	1.13	1.08
1:A:2586:PHE:CE1	1:D:2583:ASN:CB	2.37	1.08
1:C:89:LEU:C	1:C:92:LEU:HD22	1.74	1.08
1:C:299:TRP:CH2	1:C:380:SER:HB3	1.88	1.08
1:C:2584:LEU:HD11	1:D:2434:VAL:HG21	1.12	1.08
1:B:1619:VAL:O	1:B:1622:GLU:N	1.86	1.08
1:B:2178:GLY:HA2	1:B:2186:LEU:CD2	1.84	1.08
1:B:2271:ARG:NH1	1:B:2272:ASN:HD21	1.39	1.08
1:B:2622:ASP:CG	1:B:2628:PHE:CZ	2.28	1.08
1:D:2243:PHE:CD1	1:D:2642:LEU:HD11	1.89	1.08
1:D:2433:SER:HB3	1:D:2593:PHE:CZ	1.70	1.08
1:A:567:TYR:CB	1:A:571:GLN:CD	2.20	1.07
1:C:486:GLY:HA2	1:C:510:MET:SD	1.93	1.07
1:C:2558:LYS:CD	1:C:2560:GLU:OE2	2.02	1.07
1:C:2622:ASP:CG	1:C:2628:PHE:CD2	2.25	1.07
1:A:2216:CYS:SG	1:A:2646:VAL:HG21	1.94	1.07
1:A:2558:LYS:CD	1:A:2560:GLU:OE2	2.02	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2622:ASP:HB3	1:A:2628:PHE:CD2	1.89	1.07
1:A:2696:ARG:NH1	1:D:2696:ARG:NE	2.01	1.07
1:C:2243:PHE:CD1	1:C:2642:LEU:HD11	1.89	1.07
1:C:2271:ARG:NH1	1:C:2272:ASN:CG	2.07	1.07
1:C:2677:ARG:HD3	1:D:2623:ASN:OD1	1.49	1.07
1:B:2284:ALA:O	1:B:2287:MET:HB3	1.54	1.07
1:D:2384:ARG:O	1:D:2388:LEU:HD21	1.53	1.07
1:A:573:TYR:O	1:A:577:GLN:CG	2.01	1.07
1:A:2348:VAL:HG11	1:A:2353:THR:CB	1.84	1.07
1:A:2623:ASN:OD1	1:D:2677:ARG:HD3	1.53	1.07
1:C:567:TYR:CB	1:C:571:GLN:CD	2.20	1.07
1:B:1456:VAL:O	1:B:1507:PRO:O	1.73	1.07
1:D:89:LEU:C	1:D:92:LEU:HD22	1.74	1.07
1:D:2288:ASN:HD21	1:D:2417:LEU:HB2	0.97	1.07
1:A:2243:PHE:CD1	1:A:2642:LEU:HD11	1.89	1.07
1:C:449:ALA:C	1:C:453:LEU:HG	1.75	1.07
1:B:2216:CYS:SG	1:B:2646:VAL:HG21	1.95	1.07
1:B:2239:LYS:HG2	1:B:2240:ILE:HG13	1.18	1.07
1:D:275:ALA:HB2	2:D:2801:JYP:N4	1.69	1.07
1:D:2271:ARG:NH1	1:D:2272:ASN:CG	2.07	1.07
1:A:457:ALA:HB2	1:A:521:LYS:CG	1.85	1.07
1:A:2654:THR:O	1:A:2657:THR:HG22	1.33	1.07
1:C:2384:ARG:O	1:C:2388:LEU:HD21	1.53	1.07
1:C:2716:LEU:HD23	1:C:2716:LEU:H	1.19	1.07
1:B:89:LEU:HA	1:B:92:LEU:CD2	1.65	1.07
1:B:486:GLY:HA2	1:B:510:MET:SD	1.93	1.07
1:B:2271:ARG:NH1	1:B:2272:ASN:CG	2.07	1.07
1:B:2716:LEU:H	1:B:2716:LEU:HD23	1.19	1.07
1:D:449:ALA:C	1:D:453:LEU:HG	1.75	1.07
1:D:2622:ASP:CG	1:D:2628:PHE:CZ	2.28	1.07
1:A:89:LEU:C	1:A:92:LEU:HD22	1.74	1.06
1:A:2213:PRO:HG3	1:A:2647:LEU:HD12	1.35	1.06
1:A:2348:VAL:HG21	1:A:2353:THR:HG21	1.11	1.06
1:A:2623:ASN:CG	1:D:2677:ARG:HH21	1.56	1.06
1:C:2178:GLY:HA2	1:C:2186:LEU:CD2	1.84	1.06
1:B:567:TYR:CB	1:B:571:GLN:CD	2.20	1.06
1:D:2558:LYS:CD	1:D:2560:GLU:OE2	2.02	1.06
1:A:2622:ASP:CG	1:A:2628:PHE:CZ	2.28	1.06
1:C:2239:LYS:HG2	1:C:2240:ILE:CG1	1.85	1.06
1:C:2284:ALA:O	1:C:2287:MET:HB3	1.54	1.06
1:C:2401:ILE:HG12	1:C:2416:LEU:HD22	1.19	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2654:THR:O	1:C:2657:THR:HG23	1.46	1.06
1:B:2178:GLY:HA2	1:B:2186:LEU:HD21	1.09	1.06
1:B:2213:PRO:HG3	1:B:2647:LEU:HD12	1.35	1.06
1:B:2384:ARG:O	1:B:2388:LEU:HD21	1.53	1.06
1:B:2558:LYS:CD	1:B:2560:GLU:OE2	2.02	1.06
1:D:2178:GLY:HA2	1:D:2186:LEU:CD2	1.84	1.06
1:A:2284:ALA:O	1:A:2287:MET:HB3	1.54	1.06
1:A:2586:PHE:HA	1:D:2583:ASN:ND2	1.71	1.06
1:A:2649:LYS:O	1:A:2650:VAL:CB	1.96	1.06
1:C:90:ASN:HA	1:C:93:HIS:CE1	1.90	1.06
1:C:1456:VAL:O	1:C:1507:PRO:O	1.73	1.06
1:C:2707:LYS:HE2	1:D:2706:MET:O	1.53	1.06
1:B:2239:LYS:HG2	1:B:2240:ILE:CG1	1.85	1.06
1:B:2243:PHE:CD1	1:B:2642:LEU:HD11	1.89	1.06
1:D:270:GLN:O	1:D:271:SER:C	1.91	1.06
1:D:2284:ALA:O	1:D:2287:MET:HB3	1.54	1.06
1:A:2178:GLY:HA2	1:A:2186:LEU:HD21	1.10	1.06
1:C:2622:ASP:HB3	1:C:2628:PHE:CD2	1.89	1.06
1:B:2622:ASP:HB3	1:B:2628:PHE:CD2	1.89	1.06
1:D:2178:GLY:HA2	1:D:2186:LEU:HD21	1.10	1.06
1:D:2216:CYS:SG	1:D:2646:VAL:HG21	1.94	1.06
1:D:2683:LEU:O	1:D:2684:VAL:CG2	2.04	1.06
1:A:2239:LYS:HG2	1:A:2240:ILE:CG1	1.85	1.06
1:A:2622:ASP:OD1	1:A:2628:PHE:CD1	2.09	1.06
1:A:2626:VAL:HG12	1:A:2627:THR:N	1.15	1.06
1:C:2560:GLU:HG3	1:C:2563:PHE:CE2	1.75	1.06
1:D:457:ALA:HB2	1:D:521:LYS:CG	1.85	1.06
1:A:90:ASN:HA	1:A:93:HIS:CE1	1.90	1.05
1:C:127:LYS:O	1:C:441:ARG:HD2	1.56	1.05
1:C:2216:CYS:SG	1:C:2646:VAL:HG21	1.95	1.05
1:C:2273:MET:SD	1:C:2375:ASN:ND2	2.22	1.05
1:C:2622:ASP:CG	1:C:2628:PHE:CZ	2.28	1.05
1:B:275:ALA:HB2	2:B:2801:JYP:N4	1.69	1.05
1:D:2239:LYS:HG2	1:D:2240:ILE:CG1	1.85	1.05
1:A:2271:ARG:NH1	1:A:2272:ASN:CG	2.07	1.05
1:A:2560:GLU:HG3	1:A:2563:PHE:CE2	1.75	1.05
1:C:2178:GLY:HA2	1:C:2186:LEU:HD21	1.10	1.05
1:C:2348:VAL:HG11	1:C:2353:THR:CB	1.84	1.05
1:B:89:LEU:C	1:B:92:LEU:HD22	1.74	1.05
1:A:89:LEU:HA	1:A:92:LEU:HD23	1.06	1.05
1:A:270:GLN:O	1:A:271:SER:C	1.91	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:564:GLN:HB3	1:C:574:ILE:HD12	1.31	1.05
1:B:90:ASN:HA	1:B:93:HIS:CE1	1.90	1.05
1:B:520:PHE:CD1	1:B:523:LEU:HD12	1.92	1.05
1:D:90:ASN:HA	1:D:93:HIS:CE1	1.90	1.05
1:D:520:PHE:CD1	1:D:523:LEU:HD12	1.92	1.05
1:A:2365:LYS:NZ	1:A:2368:PHE:CD2	2.25	1.05
1:A:2683:LEU:O	1:A:2684:VAL:CG2	2.04	1.05
1:C:520:PHE:CD1	1:C:523:LEU:HD12	1.92	1.05
1:C:2622:ASP:OD1	1:C:2628:PHE:CD1	2.09	1.05
1:C:2654:THR:O	1:C:2657:THR:HG22	1.33	1.05
1:B:89:LEU:C	1:B:92:LEU:HD23	1.58	1.05
1:B:127:LYS:O	1:B:441:ARG:HD2	1.56	1.05
1:B:449:ALA:C	1:B:453:LEU:HG	1.75	1.05
1:B:457:ALA:HB2	1:B:521:LYS:CG	1.85	1.05
1:B:2365:LYS:NZ	1:B:2368:PHE:CD2	2.25	1.05
1:A:520:PHE:CD1	1:A:523:LEU:HD12	1.92	1.05
1:A:2583:ASN:CB	1:B:2586:PHE:CD1	2.37	1.05
1:C:2213:PRO:HG3	1:C:2647:LEU:HD12	1.35	1.05
1:C:2683:LEU:O	1:C:2684:VAL:CG2	2.04	1.05
1:D:507:GLN:HG3	1:D:567:TYR:CE1	1.92	1.05
1:A:2403:ALA:O	1:A:2408:VAL:HG23	1.56	1.04
1:C:275:ALA:HB2	2:C:2801:JYP:N4	1.69	1.04
1:C:457:ALA:HB2	1:C:521:LYS:CG	1.85	1.04
1:C:569:LYS:HE3	2:C:2801:JYP:C10	1.87	1.04
1:C:2584:LEU:HD11	1:D:2434:VAL:CG2	1.87	1.04
1:B:2345:ILE:HD11	1:B:2356:LEU:HD21	1.08	1.04
1:B:2683:LEU:O	1:B:2684:VAL:CG2	2.04	1.04
1:D:1456:VAL:O	1:D:1507:PRO:O	1.73	1.04
1:A:449:ALA:C	1:A:453:LEU:HG	1.75	1.04
1:A:2345:ILE:O	1:A:2348:VAL:HG13	0.86	1.04
1:A:2429:ASN:OD1	1:A:2432:LYS:CE	2.05	1.04
1:A:2702:LEU:HD13	1:D:2700:GLU:HG3	1.30	1.04
1:C:2348:VAL:HG21	1:C:2353:THR:HG21	1.11	1.04
1:C:2677:ARG:HH21	1:D:2623:ASN:CG	1.59	1.04
1:C:2699:GLN:HA	1:B:2700:GLU:OE1	1.57	1.04
1:B:2401:ILE:CG1	1:B:2416:LEU:CD2	2.24	1.04
1:D:2365:LYS:NZ	1:D:2368:PHE:CD2	2.25	1.04
1:D:2622:ASP:OD1	1:D:2628:PHE:CD1	2.09	1.04
1:A:2345:ILE:HD11	1:A:2356:LEU:HD21	1.08	1.04
1:C:89:LEU:C	1:C:92:LEU:HD23	1.58	1.04
1:B:646:PRO:CA	1:B:649:GLN:CA	2.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2345:ILE:O	1:D:2348:VAL:HG13	0.86	1.04
1:B:2345:ILE:O	1:B:2348:VAL:HG13	0.86	1.04
1:B:2732:ARG:HB3	1:B:2732:ARG:HH11	1.21	1.04
1:A:2401:ILE:CG1	1:A:2416:LEU:CD2	2.24	1.03
1:C:563:SER:O	1:C:567:TYR:CD2	2.11	1.03
1:B:2622:ASP:OD1	1:B:2628:PHE:CD1	2.09	1.03
1:D:89:LEU:HA	1:D:92:LEU:HD23	1.06	1.03
1:A:2361:ASN:HD21	1:A:2401:ILE:CD1	1.72	1.03
1:A:2583:ASN:HB2	1:B:2586:PHE:CE1	1.93	1.03
1:B:2401:ILE:HG12	1:B:2416:LEU:HD22	1.19	1.03
1:B:2429:ASN:OD1	1:B:2432:LYS:CE	2.06	1.03
1:D:270:GLN:O	1:D:272:ALA:O	1.76	1.03
1:D:569:LYS:HE3	2:D:2801:JYP:C10	1.87	1.03
1:D:2348:VAL:HG21	1:D:2353:THR:HG21	1.11	1.03
1:D:2716:LEU:HD23	1:D:2716:LEU:H	1.19	1.03
1:A:646:PRO:CA	1:A:649:GLN:CA	2.36	1.03
1:A:2583:ASN:ND2	1:B:2586:PHE:CA	2.20	1.03
1:C:2345:ILE:HD11	1:C:2356:LEU:HD21	1.07	1.03
1:C:2365:LYS:NZ	1:C:2368:PHE:CD2	2.25	1.03
1:C:2583:ASN:HB3	1:D:2586:PHE:CD1	1.93	1.03
1:B:563:SER:O	1:B:567:TYR:CD2	2.11	1.03
1:A:127:LYS:O	1:A:441:ARG:HD2	1.56	1.03
1:A:1456:VAL:O	1:A:1507:PRO:O	1.73	1.03
1:A:2713:SER:O	1:A:2716:LEU:CG	2.07	1.03
1:C:2429:ASN:OD1	1:C:2432:LYS:CE	2.06	1.03
1:B:89:LEU:HA	1:B:92:LEU:HD23	1.06	1.03
1:B:2361:ASN:HD21	1:B:2401:ILE:CD1	1.72	1.03
1:D:563:SER:O	1:D:567:TYR:CD2	2.11	1.03
1:D:2361:ASN:HD21	1:D:2401:ILE:CD1	1.72	1.03
1:A:270:GLN:O	1:A:272:ALA:O	1.76	1.03
1:A:569:LYS:HE3	2:A:2801:JYP:C10	1.87	1.03
1:B:569:LYS:HE3	2:B:2801:JYP:C10	1.87	1.03
1:D:646:PRO:CA	1:D:649:GLN:CA	2.36	1.03
1:D:2345:ILE:HD13	1:D:2356:LEU:HD21	1.26	1.03
1:A:563:SER:O	1:A:567:TYR:CD2	2.11	1.02
1:C:646:PRO:CA	1:C:649:GLN:CA	2.36	1.02
1:C:2200:ARG:HB2	1:C:2662:TYR:CZ	1.94	1.02
1:C:2345:ILE:O	1:C:2348:VAL:HG13	0.86	1.02
1:C:2586:PHE:CE1	1:B:2583:ASN:HB2	1.94	1.02
1:D:263:PHE:HE2	1:D:265:ARG:HE	1.03	1.02
1:D:2345:ILE:HD11	1:D:2356:LEU:HD21	1.07	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2348:VAL:HG11	1:D:2353:THR:CB	1.84	1.02
1:A:108:ARG:HH11	1:A:108:ARG:HG3	1.25	1.02
1:A:507:GLN:HG3	1:A:567:TYR:CE1	1.92	1.02
1:A:1456:VAL:O	1:A:1507:PRO:C	1.98	1.02
1:A:2368:PHE:CZ	1:A:2395:HIS:CE1	2.47	1.02
1:A:2560:GLU:O	1:A:2563:PHE:HB2	1.58	1.02
1:B:108:ARG:HH11	1:B:108:ARG:HG3	1.25	1.02
1:B:2213:PRO:CG	1:B:2647:LEU:CD1	2.37	1.02
1:D:127:LYS:O	1:D:441:ARG:HD2	1.56	1.02
1:D:2200:ARG:HB2	1:D:2662:TYR:CZ	1.94	1.02
1:A:2273:MET:SD	1:A:2375:ASN:ND2	2.22	1.02
1:B:2576:MET:HE1	1:B:2580:ILE:HG13	1.42	1.02
1:D:2560:GLU:O	1:D:2563:PHE:HB2	1.58	1.02
1:A:2200:ARG:HB2	1:A:2662:TYR:CZ	1.94	1.02
1:C:507:GLN:HG3	1:C:567:TYR:CE1	1.92	1.02
1:C:2560:GLU:O	1:C:2563:PHE:HB2	1.58	1.02
1:B:270:GLN:O	1:B:272:ALA:O	1.76	1.02
1:B:1456:VAL:O	1:B:1507:PRO:C	1.98	1.02
1:B:2368:PHE:CZ	1:B:2395:HIS:CE1	2.47	1.02
1:B:2560:GLU:HG3	1:B:2563:PHE:CE2	1.75	1.02
1:C:2239:LYS:CG	1:C:2240:ILE:HG13	1.90	1.02
1:C:2586:PHE:CD1	1:B:2583:ASN:HB3	1.94	1.02
1:C:2622:ASP:CB	1:C:2628:PHE:CD2	2.43	1.02
1:C:2696:ARG:NH1	1:B:2696:ARG:NE	2.07	1.02
1:C:2732:ARG:HB3	1:C:2732:ARG:HH11	1.21	1.02
1:D:2239:LYS:CG	1:D:2240:ILE:HG13	1.90	1.02
1:D:2429:ASN:OD1	1:D:2432:LYS:CE	2.05	1.02
1:D:2713:SER:O	1:D:2716:LEU:CG	2.07	1.02
1:A:2348:VAL:HB	1:A:2353:THR:CG2	1.87	1.01
1:A:2732:ARG:HB3	1:A:2732:ARG:HH11	1.21	1.01
1:C:89:LEU:HA	1:C:92:LEU:HD23	1.06	1.01
1:C:1456:VAL:O	1:C:1507:PRO:C	1.98	1.01
1:B:507:GLN:HG3	1:B:567:TYR:CE1	1.92	1.01
1:B:552:ILE:O	1:B:556:CYS:SG	2.19	1.01
1:B:2273:MET:SD	1:B:2375:ASN:ND2	2.22	1.01
1:B:2713:SER:O	1:B:2716:LEU:CG	2.07	1.01
1:D:2348:VAL:HG11	1:D:2353:THR:OG1	1.53	1.01
1:A:602:ASN:O	1:A:606:LEU:N	1.93	1.01
1:A:2213:PRO:CG	1:A:2647:LEU:CD1	2.37	1.01
1:A:2702:LEU:HD13	1:D:2700:GLU:CG	1.85	1.01
1:C:2348:VAL:HB	1:C:2353:THR:HB	1.02	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2009:CYS:O	1:A:2013:SER:N	1.94	1.01
1:A:2713:SER:C	1:A:2716:LEU:HD21	1.81	1.01
1:C:270:GLN:O	1:C:271:SER:C	1.91	1.01
1:B:2200:ARG:HB2	1:B:2662:TYR:CZ	1.94	1.01
1:D:552:ILE:O	1:D:556:CYS:SG	2.18	1.01
1:D:1456:VAL:O	1:D:1507:PRO:C	1.98	1.01
1:A:263:PHE:HE2	1:A:265:ARG:HE	1.03	1.01
1:A:510:MET:O	1:A:515:ILE:CG2	2.09	1.01
1:A:569:LYS:HE2	2:A:2801:JYP:C12	1.91	1.01
1:C:270:GLN:O	1:C:272:ALA:O	1.76	1.01
1:C:552:ILE:O	1:C:556:CYS:SG	2.18	1.01
1:C:2201:LEU:N	1:C:2662:TYR:OH	1.94	1.01
1:C:2213:PRO:CG	1:C:2647:LEU:CD1	2.37	1.01
1:C:2361:ASN:HD21	1:C:2401:ILE:CD1	1.72	1.01
1:C:2368:PHE:CZ	1:C:2395:HIS:CE1	2.47	1.01
1:C:2713:SER:O	1:C:2716:LEU:CG	2.07	1.01
1:B:2009:CYS:O	1:B:2013:SER:N	1.93	1.01
1:D:2213:PRO:CG	1:D:2647:LEU:CD1	2.37	1.01
1:D:2348:VAL:HB	1:D:2353:THR:HB	1.02	1.01
1:D:2576:MET:HE1	1:D:2580:ILE:HG13	1.41	1.01
1:A:2239:LYS:CG	1:A:2240:ILE:HG13	1.90	1.01
1:A:2622:ASP:CB	1:A:2628:PHE:CD2	2.43	1.01
1:C:2401:ILE:CD1	1:C:2416:LEU:CD2	2.39	1.01
1:C:2576:MET:HE1	1:C:2580:ILE:HG13	1.41	1.01
1:D:453:LEU:HA	1:D:521:LYS:NZ	1.76	1.01
1:D:569:LYS:HE2	2:D:2801:JYP:C12	1.91	1.01
1:D:2201:LEU:N	1:D:2662:TYR:OH	1.94	1.01
1:D:2368:PHE:CZ	1:D:2395:HIS:CE1	2.47	1.01
1:C:442:ASP:OD1	1:C:483:PHE:HE2	1.31	1.00
1:C:2388:LEU:HD23	1:C:2388:LEU:H	1.25	1.00
1:B:569:LYS:HE2	2:B:2801:JYP:C12	1.91	1.00
1:B:2239:LYS:CG	1:B:2240:ILE:HG13	1.90	1.00
1:B:2348:VAL:HB	1:B:2353:THR:CG2	1.87	1.00
1:D:442:ASP:OD1	1:D:483:PHE:HE2	1.31	1.00
1:D:457:ALA:HB2	1:D:521:LYS:HG3	1.01	1.00
1:D:602:ASN:O	1:D:606:LEU:N	1.93	1.00
1:D:2361:ASN:HD21	1:D:2401:ILE:HD11	0.84	1.00
1:D:2403:ALA:O	1:D:2408:VAL:HG23	1.56	1.00
1:A:2361:ASN:HD21	1:A:2401:ILE:HD11	0.84	1.00
1:C:510:MET:O	1:C:515:ILE:CG2	2.09	1.00
1:C:2189:TYR:O	1:C:2192:HIS:C	2.00	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2403:ALA:O	1:B:2408:VAL:HG23	1.56	1.00
1:D:2009:CYS:O	1:D:2013:SER:N	1.94	1.00
1:D:2401:ILE:CG1	1:D:2416:LEU:CD2	2.24	1.00
1:D:2622:ASP:CB	1:D:2628:PHE:CD2	2.43	1.00
1:A:552:ILE:O	1:A:556:CYS:SG	2.18	1.00
1:A:2576:MET:HE1	1:A:2580:ILE:HG13	1.42	1.00
1:C:602:ASN:O	1:C:606:LEU:N	1.93	1.00
1:B:270:GLN:O	1:B:271:SER:C	1.91	1.00
1:B:2201:LEU:N	1:B:2662:TYR:OH	1.94	1.00
1:B:2348:VAL:HB	1:B:2353:THR:HB	1.03	1.00
1:B:2622:ASP:CB	1:B:2628:PHE:CD2	2.43	1.00
1:D:510:MET:O	1:D:515:ILE:CG2	2.09	1.00
1:D:2713:SER:C	1:D:2716:LEU:HD21	1.81	1.00
1:C:300:ASN:OD1	1:B:2730:LYS:HA	1.59	1.00
1:C:453:LEU:HA	1:C:521:LYS:NZ	1.76	1.00
1:B:2388:LEU:HD23	1:B:2388:LEU:H	1.26	1.00
1:B:2560:GLU:O	1:B:2563:PHE:HB2	1.58	1.00
1:C:2009:CYS:O	1:C:2013:SER:N	1.93	1.00
1:C:2403:ALA:O	1:C:2408:VAL:HG23	1.56	1.00
1:D:2243:PHE:HE1	1:D:2642:LEU:HD13	1.27	1.00
1:C:300:ASN:OD1	1:B:2730:LYS:CB	2.10	1.00
1:D:2732:ARG:HB3	1:D:2732:ARG:HH11	1.21	1.00
1:A:2201:LEU:N	1:A:2662:TYR:OH	1.94	1.00
1:C:108:ARG:HG3	1:C:108:ARG:HH11	1.24	1.00
1:B:2412:PHE:O	1:B:2413:TYR:C	1.98	1.00
1:A:300:ASN:OD1	1:D:2730:LYS:CA	2.10	0.99
1:A:457:ALA:HB2	1:A:521:LYS:HG3	1.01	0.99
1:A:2243:PHE:HE1	1:A:2642:LEU:HD13	1.27	0.99
1:C:2287:MET:O	1:C:2290:LEU:CB	2.10	0.99
1:D:2401:ILE:CD1	1:D:2416:LEU:CD2	2.39	0.99
1:A:453:LEU:HA	1:A:521:LYS:NZ	1.76	0.99
1:C:89:LEU:HA	1:C:92:LEU:CD2	1.65	0.99
1:B:2189:TYR:O	1:B:2192:HIS:C	2.00	0.99
1:C:569:LYS:HE2	2:C:2801:JYP:C12	1.91	0.99
1:B:510:MET:O	1:B:515:ILE:CG2	2.09	0.99
1:B:602:ASN:O	1:B:606:LEU:N	1.93	0.99
1:D:2288:ASN:O	1:D:2291:VAL:HG23	1.62	0.99
1:A:2288:ASN:O	1:A:2291:VAL:HG23	1.62	0.99
1:C:2345:ILE:HD13	1:C:2356:LEU:HD21	1.26	0.99
1:B:453:LEU:HA	1:B:521:LYS:NZ	1.76	0.99
1:D:108:ARG:HH11	1:D:108:ARG:HG3	1.24	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2288:ASN:O	1:C:2291:VAL:HG23	1.62	0.99
1:C:2343:ARG:O	1:C:2346:PHE:HD2	1.38	0.99
1:D:2412:PHE:O	1:D:2413:TYR:C	1.99	0.99
1:A:2189:TYR:O	1:A:2192:HIS:C	2.00	0.99
1:B:2433:SER:HB2	1:B:2593:PHE:CD2	1.97	0.99
1:A:442:ASP:OD1	1:A:483:PHE:HE2	1.31	0.99
1:A:2433:SER:HB2	1:A:2593:PHE:CD2	1.97	0.99
1:C:2713:SER:C	1:C:2716:LEU:HD21	1.81	0.99
1:B:2713:SER:C	1:B:2716:LEU:HD21	1.81	0.99
1:A:74:LYS:HA	1:A:74:LYS:NZ	1.78	0.99
1:B:2433:SER:OG	1:B:2593:PHE:HE2	1.45	0.99
1:D:2285:VAL:C	1:D:2287:MET:H	1.66	0.99
1:A:2401:ILE:CD1	1:A:2416:LEU:CD2	2.39	0.98
1:B:263:PHE:HE2	1:B:265:ARG:HE	1.03	0.98
1:C:2713:SER:HB2	1:B:2715:GLN:HE22	1.25	0.98
1:B:2287:MET:O	1:B:2290:LEU:CB	2.11	0.98
1:D:2189:TYR:O	1:D:2192:HIS:C	2.00	0.98
1:A:2348:VAL:HG11	1:A:2353:THR:CG2	1.93	0.98
1:C:2576:MET:CE	1:C:2576:MET:HA	1.91	0.98
1:A:2401:ILE:HG12	1:A:2416:LEU:HD22	1.19	0.98
1:A:2649:LYS:NZ	1:A:2649:LYS:HA	1.79	0.98
1:C:2348:VAL:HB	1:C:2353:THR:CG2	1.87	0.98
1:D:74:LYS:HA	1:D:74:LYS:NZ	1.78	0.98
1:A:2348:VAL:HB	1:A:2353:THR:HB	1.02	0.98
1:C:2285:VAL:O	1:C:2287:MET:N	1.96	0.98
1:B:74:LYS:HA	1:B:74:LYS:NZ	1.78	0.98
1:B:457:ALA:HB2	1:B:521:LYS:HG3	1.01	0.98
1:B:2348:VAL:CG1	1:B:2353:THR:HB	1.82	0.98
1:D:2287:MET:O	1:D:2290:LEU:CB	2.10	0.98
1:A:508:LYS:NZ	2:A:2801:JYP:O18	1.96	0.98
1:A:2696:ARG:NH1	1:D:2696:ARG:NH2	1.91	0.98
1:C:2243:PHE:HZ	1:C:2638:MET:HB3	1.28	0.98
1:B:72:PHE:CE1	1:B:93:HIS:HB2	1.98	0.98
1:B:2348:VAL:HG11	1:B:2353:THR:CG2	1.93	0.98
1:D:2348:VAL:HG11	1:D:2353:THR:CG2	1.93	0.98
1:D:2433:SER:HB2	1:D:2593:PHE:CD2	1.97	0.98
1:D:2649:LYS:HA	1:D:2649:LYS:NZ	1.79	0.98
1:A:300:ASN:CG	1:D:2730:LYS:HG2	1.83	0.98
1:A:2287:MET:O	1:A:2290:LEU:CB	2.10	0.98
1:A:2362:VAL:CA	1:A:2402:CYS:SG	2.52	0.98
1:C:300:ASN:OD1	1:B:2730:LYS:CA	2.12	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2586:PHE:HA	1:B:2583:ASN:ND2	1.77	0.98
1:A:2576:MET:CE	1:A:2580:ILE:CG1	2.41	0.98
1:C:2348:VAL:HG11	1:C:2353:THR:CG2	1.93	0.98
1:C:2361:ASN:HD21	1:C:2401:ILE:HD11	0.84	0.98
1:C:2637:ASN:HD22	1:C:2640:HIS:CD2	1.72	0.98
1:B:2401:ILE:HD13	1:B:2416:LEU:HD22	1.45	0.98
1:D:508:LYS:NZ	2:D:2801:JYP:O18	1.96	0.98
1:C:2433:SER:HB2	1:C:2593:PHE:CD2	1.97	0.98
1:C:2649:LYS:HA	1:C:2649:LYS:NZ	1.79	0.98
1:D:2576:MET:CE	1:D:2576:MET:HA	1.91	0.98
1:A:2285:VAL:O	1:A:2287:MET:N	1.96	0.97
1:A:2345:ILE:HD13	1:A:2356:LEU:HD21	1.26	0.97
1:A:2401:ILE:HD13	1:A:2416:LEU:HD22	1.45	0.97
1:A:2586:PHE:CD1	1:D:2583:ASN:HB3	1.99	0.97
1:C:263:PHE:HE2	1:C:265:ARG:HE	1.03	0.97
1:B:2576:MET:CE	1:B:2576:MET:HA	1.91	0.97
1:D:2285:VAL:O	1:D:2287:MET:N	1.96	0.97
1:A:2343:ARG:O	1:A:2346:PHE:HD2	1.38	0.97
1:C:2349:GLY:O	1:C:2352:PRO:HD2	1.64	0.97
1:C:2239:LYS:CG	1:C:2240:ILE:H	1.74	0.97
1:D:72:PHE:CE1	1:D:93:HIS:HB2	1.97	0.97
1:D:2388:LEU:HD23	1:D:2388:LEU:H	1.25	0.97
1:A:72:PHE:CE1	1:A:93:HIS:HB2	1.98	0.97
1:A:2434:VAL:CG2	1:D:2584:LEU:HD11	1.95	0.97
1:A:2576:MET:CE	1:A:2576:MET:HA	1.91	0.97
1:C:508:LYS:NZ	2:C:2801:JYP:O18	1.96	0.97
1:C:2558:LYS:HD2	1:C:2560:GLU:CG	1.95	0.97
1:C:2576:MET:CE	1:C:2580:ILE:CG1	2.42	0.97
1:C:2586:PHE:HA	1:B:2583:ASN:HD21	1.29	0.97
1:B:2361:ASN:HD21	1:B:2401:ILE:HD11	0.84	0.97
1:D:2210:PHE:CD2	1:D:2647:LEU:CD2	2.47	0.97
1:D:2239:LYS:CG	1:D:2240:ILE:H	1.74	0.97
1:C:74:LYS:HA	1:C:74:LYS:NZ	1.78	0.97
1:C:457:ALA:HB2	1:C:521:LYS:HG3	1.01	0.97
1:D:2576:MET:CE	1:D:2580:ILE:CG1	2.41	0.97
1:C:72:PHE:CE1	1:C:93:HIS:HB2	1.97	0.97
1:C:2433:SER:HB3	1:C:2593:PHE:CE1	2.00	0.97
1:C:2583:ASN:OD1	1:D:2589:ILE:CG2	2.12	0.97
1:B:2362:VAL:CA	1:B:2402:CYS:SG	2.52	0.97
1:D:2272:ASN:C	1:D:2276:TRP:HD1	1.66	0.97
1:D:2452:VAL:HG23	1:D:2573:PHE:HE1	1.24	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2558:LYS:HD2	1:D:2560:GLU:CG	1.95	0.97
1:B:92:LEU:HD22	1:B:92:LEU:H	1.29	0.97
1:D:2362:VAL:CA	1:D:2402:CYS:SG	2.52	0.97
1:A:2239:LYS:CG	1:A:2240:ILE:H	1.74	0.97
1:C:2348:VAL:CG1	1:C:2353:THR:HB	1.82	0.97
1:B:2576:MET:CE	1:B:2580:ILE:CG1	2.41	0.97
1:A:520:PHE:CE1	1:A:523:LEU:HD12	2.00	0.97
1:C:2210:PHE:HD2	1:C:2647:LEU:HD23	1.29	0.97
1:A:2715:GLN:HE21	1:B:2713:SER:CB	1.72	0.97
1:B:508:LYS:NZ	2:B:2801:JYP:O18	1.96	0.97
1:B:520:PHE:CE1	1:B:523:LEU:HD12	2.00	0.97
1:B:2210:PHE:HD2	1:B:2647:LEU:HD23	1.29	0.97
1:B:2288:ASN:O	1:B:2291:VAL:HG23	1.62	0.97
1:D:89:LEU:HA	1:D:92:LEU:CD2	1.65	0.96
1:D:2433:SER:HB3	1:D:2593:PHE:CE1	2.00	0.96
1:A:92:LEU:HD22	1:A:92:LEU:H	1.29	0.96
1:A:2213:PRO:HG3	1:A:2647:LEU:HA	1.46	0.96
1:C:2243:PHE:HE1	1:C:2642:LEU:HD13	1.27	0.96
1:B:2210:PHE:HE2	1:B:2647:LEU:HD21	1.30	0.96
1:B:2401:ILE:CD1	1:B:2416:LEU:CD2	2.39	0.96
1:A:2433:SER:OG	1:A:2593:PHE:HE2	1.45	0.96
1:C:2210:PHE:CD2	1:C:2647:LEU:CD2	2.47	0.96
1:C:2348:VAL:CG1	1:C:2353:THR:CG2	2.43	0.96
1:C:2401:ILE:CG1	1:C:2416:LEU:CD2	2.24	0.96
1:C:2401:ILE:HD13	1:C:2416:LEU:HD22	1.44	0.96
1:B:2285:VAL:O	1:B:2287:MET:N	1.96	0.96
1:B:2649:LYS:HA	1:B:2649:LYS:NZ	1.79	0.96
1:C:2271:ARG:HH11	1:C:2272:ASN:ND2	1.52	0.96
1:B:2343:ARG:O	1:B:2346:PHE:HD2	1.38	0.96
1:B:2558:LYS:HD2	1:B:2560:GLU:CG	1.95	0.96
1:D:520:PHE:CE1	1:D:523:LEU:HD12	2.00	0.96
1:D:2271:ARG:HH11	1:D:2272:ASN:ND2	1.52	0.96
1:A:2021:LEU:O	1:A:2024:TYR:N	1.99	0.96
1:C:2362:VAL:CA	1:C:2402:CYS:SG	2.52	0.96
1:B:2433:SER:HB3	1:B:2593:PHE:CE1	2.00	0.96
1:D:2348:VAL:CB	1:D:2353:THR:HG21	1.91	0.96
1:A:2388:LEU:HD23	1:A:2388:LEU:H	1.25	0.96
1:D:89:LEU:O	1:D:92:LEU:CD2	2.14	0.96
1:A:89:LEU:O	1:A:92:LEU:CD2	2.14	0.96
1:C:520:PHE:CE1	1:C:523:LEU:HD12	2.00	0.96
1:C:2272:ASN:O	1:C:2276:TRP:CD1	2.19	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2021:LEU:O	1:B:2024:TYR:N	1.99	0.96
1:D:2401:ILE:HD13	1:D:2416:LEU:HD22	1.44	0.96
1:A:69:GLN:N	1:A:100:LYS:HZ1	1.47	0.96
1:A:300:ASN:OD1	1:D:2730:LYS:HA	1.66	0.96
1:C:2621:PHE:O	1:C:2624:LYS:HG3	1.66	0.96
1:B:2210:PHE:CD2	1:B:2647:LEU:CD2	2.47	0.96
1:B:2559:GLU:OE2	1:B:2562:LEU:HG	1.66	0.96
1:D:2621:PHE:O	1:D:2624:LYS:HG3	1.66	0.96
1:A:2621:PHE:O	1:A:2624:LYS:HG3	1.66	0.96
1:D:2219:LEU:HD21	1:D:2254:MET:CE	1.96	0.96
1:B:89:LEU:O	1:B:92:LEU:HD23	1.66	0.95
1:A:2285:VAL:C	1:A:2287:MET:H	1.66	0.95
1:C:1313:GLN:O	1:C:1317:LYS:N	1.99	0.95
1:C:2285:VAL:HG21	1:C:2417:LEU:CD1	1.97	0.95
1:B:2219:LEU:HD21	1:B:2254:MET:CE	1.96	0.95
1:A:2288:ASN:O	1:A:2291:VAL:CG2	2.14	0.95
1:A:2345:ILE:HG23	1:A:2353:THR:HG1	1.25	0.95
1:B:2239:LYS:CG	1:B:2240:ILE:H	1.74	0.95
1:D:1313:GLN:O	1:D:1317:LYS:N	1.99	0.95
1:A:1317:LYS:C	1:A:1385:CYS:C	2.24	0.95
1:A:2272:ASN:C	1:A:2276:TRP:HD1	1.66	0.95
1:A:2272:ASN:O	1:A:2276:TRP:CD1	2.19	0.95
1:A:2559:GLU:OE2	1:A:2562:LEU:HG	1.66	0.95
1:C:2288:ASN:CA	1:C:2413:TYR:HB3	1.96	0.95
1:D:1317:LYS:C	1:D:1385:CYS:C	2.24	0.95
1:C:2288:ASN:O	1:C:2291:VAL:CG2	2.14	0.95
1:B:1317:LYS:C	1:B:1385:CYS:C	2.24	0.95
1:B:2243:PHE:HE1	1:B:2642:LEU:HD13	1.27	0.95
1:B:2272:ASN:O	1:B:2276:TRP:CD1	2.19	0.95
1:B:2285:VAL:HG21	1:B:2417:LEU:CD1	1.97	0.95
1:A:2348:VAL:CG1	1:A:2353:THR:HB	1.82	0.95
1:A:2433:SER:HB3	1:A:2593:PHE:CE1	2.00	0.95
1:C:89:LEU:O	1:C:92:LEU:CD2	2.14	0.95
1:C:92:LEU:HD22	1:C:92:LEU:H	1.29	0.95
1:B:2271:ARG:HH11	1:B:2272:ASN:ND2	1.52	0.95
1:D:89:LEU:O	1:D:92:LEU:HD23	1.66	0.95
1:A:2558:LYS:HD2	1:A:2560:GLU:CG	1.95	0.95
1:C:2559:GLU:OE2	1:C:2562:LEU:HG	1.66	0.95
1:B:299:TRP:HH2	1:B:377:GLY:O	1.50	0.95
1:B:2586:PHE:O	1:B:2589:ILE:N	2.00	0.95
1:B:646:PRO:C	1:B:648:THR:N	2.10	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2213:PRO:HG3	1:D:2647:LEU:HA	1.46	0.95
1:D:2288:ASN:O	1:D:2291:VAL:CG2	2.14	0.95
1:D:2578:ILE:HD11	1:D:2582:LEU:HD12	1.48	0.95
1:A:2573:PHE:CE1	1:A:2577:VAL:CG2	2.50	0.95
1:C:2021:LEU:O	1:C:2023:LEU:N	2.00	0.95
1:C:2433:SER:OG	1:C:2593:PHE:HE2	1.45	0.95
1:B:89:LEU:O	1:B:92:LEU:CD2	2.14	0.95
1:B:1313:GLN:O	1:B:1317:LYS:N	1.99	0.95
1:A:2219:LEU:HD21	1:A:2254:MET:CE	1.96	0.95
1:A:2586:PHE:O	1:A:2589:ILE:N	2.00	0.95
1:C:144:LYS:CB	1:D:1302:HIS:CA	2.45	0.95
1:C:2219:LEU:HD21	1:C:2254:MET:CE	1.96	0.95
1:C:2715:GLN:HE21	1:D:2713:SER:CB	1.80	0.95
1:D:2285:VAL:HG21	1:D:2417:LEU:CD1	1.97	0.95
1:D:2288:ASN:CA	1:D:2413:TYR:HB3	1.96	0.95
1:D:2559:GLU:OE2	1:D:2562:LEU:HG	1.66	0.95
1:C:646:PRO:C	1:C:648:THR:N	2.10	0.94
1:B:2288:ASN:CA	1:B:2413:TYR:HB3	1.96	0.94
1:D:2559:GLU:HG2	1:D:2562:LEU:HD23	1.49	0.94
1:A:1313:GLN:O	1:A:1317:LYS:N	1.99	0.94
1:A:2702:LEU:CD1	1:D:2700:GLU:HG3	1.81	0.94
1:C:2586:PHE:O	1:C:2589:ILE:N	2.00	0.94
1:D:92:LEU:HD22	1:D:92:LEU:H	1.29	0.94
1:C:1317:LYS:C	1:C:1385:CYS:C	2.24	0.94
1:C:2649:LYS:C	1:C:2650:VAL:HG22	1.88	0.94
1:B:2452:VAL:HG23	1:B:2573:PHE:HE1	1.24	0.94
1:D:1961:ALA:O	1:D:1962:VAL:C	2.06	0.94
1:D:2573:PHE:CE1	1:D:2577:VAL:CG2	2.50	0.94
1:A:2273:MET:HA	1:A:2276:TRP:CD1	2.02	0.94
1:A:2288:ASN:CA	1:A:2413:TYR:HB3	1.96	0.94
1:A:2700:GLU:HG2	1:B:2702:LEU:HD12	0.95	0.94
1:D:2649:LYS:C	1:D:2650:VAL:HG22	1.88	0.94
1:A:2271:ARG:HH11	1:A:2272:ASN:ND2	1.52	0.94
1:B:2637:ASN:HD22	1:B:2640:HIS:CD2	1.72	0.94
1:A:571:GLN:CG	1:A:574:ILE:HD11	1.98	0.94
1:A:2713:SER:HB2	1:D:2715:GLN:HE22	1.09	0.94
1:B:2243:PHE:CE1	1:B:2642:LEU:HD13	1.99	0.94
1:C:89:LEU:O	1:C:92:LEU:HD23	1.66	0.94
1:C:2345:ILE:C	1:C:2348:VAL:HG13	1.87	0.94
1:B:2288:ASN:O	1:B:2291:VAL:CG2	2.14	0.94
1:D:2021:LEU:O	1:D:2024:TYR:N	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:LYS:HE3	1:C:511:ARG:HH11	1.33	0.94
1:C:2213:PRO:HG3	1:C:2647:LEU:CB	1.91	0.94
1:C:2559:GLU:HG2	1:C:2562:LEU:HD23	1.49	0.94
1:B:2273:MET:HA	1:B:2276:TRP:CD1	2.02	0.94
1:B:2285:VAL:C	1:B:2287:MET:N	2.17	0.94
1:B:2349:GLY:O	1:B:2352:PRO:HD2	1.64	0.94
1:B:2578:ILE:HD11	1:B:2582:LEU:HD12	1.48	0.94
1:D:2213:PRO:HG3	1:D:2647:LEU:CG	1.98	0.94
1:D:2243:PHE:HZ	1:D:2638:MET:HB3	1.28	0.94
1:D:2349:GLY:O	1:D:2352:PRO:HD2	1.64	0.94
1:D:2637:ASN:HD22	1:D:2640:HIS:CD2	1.72	0.94
1:A:2216:CYS:SG	1:A:2646:VAL:CG1	2.56	0.94
1:A:2700:GLU:OE1	1:B:2699:GLN:CA	2.15	0.94
1:B:508:LYS:HE3	1:B:511:ARG:HH11	1.33	0.94
1:D:2348:VAL:HB	1:D:2353:THR:CG2	1.87	0.94
1:A:299:TRP:HH2	1:A:377:GLY:O	1.50	0.94
1:A:2213:PRO:HG3	1:A:2647:LEU:CB	1.91	0.94
1:C:2239:LYS:NZ	1:C:2677:ARG:HD2	1.83	0.94
1:B:2021:LEU:O	1:B:2023:LEU:N	2.00	0.94
1:B:2573:PHE:CE1	1:B:2577:VAL:CG2	2.50	0.94
1:B:2621:PHE:O	1:B:2624:LYS:HG3	1.66	0.94
1:D:2272:ASN:O	1:D:2276:TRP:CD1	2.19	0.94
1:D:2273:MET:HA	1:D:2276:TRP:CD1	2.02	0.94
1:A:2213:PRO:HG3	1:A:2647:LEU:CG	1.98	0.93
1:A:2547:GLY:HA2	1:B:2546:GLY:H	1.31	0.93
1:C:2021:LEU:O	1:C:2024:TYR:N	1.99	0.93
1:B:2216:CYS:SG	1:B:2646:VAL:CG1	2.56	0.93
1:B:2243:PHE:HZ	1:B:2638:MET:HB3	1.28	0.93
1:D:299:TRP:HH2	1:D:377:GLY:O	1.50	0.93
1:D:520:PHE:CE1	1:D:523:LEU:CD1	2.51	0.93
1:A:2348:VAL:CB	1:A:2353:THR:HG21	1.91	0.93
1:C:2273:MET:HA	1:C:2276:TRP:CD1	2.02	0.93
1:B:2213:PRO:HG3	1:B:2647:LEU:HA	1.46	0.93
1:B:2239:LYS:NZ	1:B:2677:ARG:HD2	1.83	0.93
1:D:237:GLY:CA	1:D:283:GLU:OE2	2.17	0.93
1:A:2285:VAL:HG21	1:A:2417:LEU:CD1	1.97	0.93
1:C:2412:PHE:O	1:C:2413:TYR:C	1.98	0.93
1:B:520:PHE:CE1	1:B:523:LEU:CD1	2.51	0.93
1:D:1455:LEU:O	1:D:1507:PRO:CA	2.17	0.93
1:D:2216:CYS:SG	1:D:2646:VAL:CG1	2.56	0.93
1:A:520:PHE:CE1	1:A:523:LEU:CD1	2.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1455:LEU:O	1:A:1507:PRO:CA	2.17	0.93
1:A:2243:PHE:HZ	1:A:2638:MET:HB3	1.27	0.93
1:C:69:GLN:N	1:C:100:LYS:HZ3	1.50	0.93
1:C:237:GLY:CA	1:C:283:GLU:OE2	2.17	0.93
1:C:2710:THR:HB	1:B:2707:LYS:HZ2	1.24	0.93
1:A:2021:LEU:O	1:A:2023:LEU:N	2.00	0.93
1:C:299:TRP:HH2	1:C:377:GLY:O	1.50	0.93
1:C:520:PHE:CE1	1:C:523:LEU:CD1	2.51	0.93
1:C:2623:ASN:CG	1:B:2677:ARG:HH21	1.71	0.93
1:B:1455:LEU:O	1:B:1507:PRO:CA	2.17	0.93
1:D:2345:ILE:C	1:D:2348:VAL:HG13	1.87	0.93
1:A:2452:VAL:HG23	1:A:2573:PHE:HE1	1.24	0.93
1:C:1455:LEU:O	1:C:1507:PRO:CA	2.17	0.93
1:C:2401:ILE:HG12	1:C:2416:LEU:HD21	1.50	0.93
1:B:2649:LYS:C	1:B:2650:VAL:HG22	1.88	0.93
1:A:2239:LYS:NZ	1:A:2677:ARG:HD2	1.83	0.93
1:A:2345:ILE:C	1:A:2348:VAL:HG13	1.87	0.93
1:C:2578:ILE:HD11	1:C:2582:LEU:HD12	1.48	0.93
1:D:2021:LEU:O	1:D:2023:LEU:N	2.00	0.93
1:A:2412:PHE:O	1:A:2413:TYR:C	1.99	0.93
1:A:2649:LYS:C	1:A:2650:VAL:HG22	1.88	0.93
1:C:2452:VAL:HG23	1:C:2573:PHE:HE1	1.24	0.93
1:C:2573:PHE:CE1	1:C:2577:VAL:CG2	2.50	0.93
1:D:571:GLN:CG	1:D:574:ILE:HD11	1.98	0.93
1:D:2401:ILE:HG12	1:D:2416:LEU:HD22	1.19	0.93
1:A:237:GLY:CA	1:A:283:GLU:OE2	2.17	0.93
1:A:2210:PHE:CD2	1:A:2647:LEU:CD2	2.47	0.93
1:B:2345:ILE:C	1:B:2348:VAL:HG13	1.87	0.93
1:C:2213:PRO:HG3	1:C:2647:LEU:CG	1.98	0.93
1:B:571:GLN:CG	1:B:574:ILE:HD11	1.98	0.93
1:A:646:PRO:C	1:A:648:THR:N	2.10	0.92
1:A:2583:ASN:HD21	1:B:2586:PHE:HA	1.03	0.92
1:C:2216:CYS:SG	1:C:2646:VAL:CG1	2.56	0.92
1:C:2348:VAL:CG1	1:C:2353:THR:HG21	1.99	0.92
1:A:2578:ILE:HD11	1:A:2582:LEU:HD12	1.48	0.92
1:A:2583:ASN:OD1	1:B:2589:ILE:CG2	2.16	0.92
1:C:2348:VAL:HG11	1:C:2353:THR:HG21	1.51	0.92
1:D:2586:PHE:O	1:D:2589:ILE:N	2.00	0.92
1:A:2285:VAL:C	1:A:2287:MET:N	2.17	0.92
1:B:2345:ILE:HG23	1:B:2353:THR:HG1	1.30	0.92
1:B:2433:SER:OG	1:B:2593:PHE:HZ	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2339:SER:HA	1:D:2342:LEU:HD12	1.52	0.92
1:D:2348:VAL:HG11	1:D:2353:THR:HG21	1.51	0.92
1:A:2210:PHE:HE2	1:A:2647:LEU:HD21	1.30	0.92
1:B:237:GLY:CA	1:B:283:GLU:OE2	2.17	0.92
1:B:2213:PRO:HG3	1:B:2647:LEU:CG	1.98	0.92
1:D:2343:ARG:C	1:D:2346:PHE:HD2	1.73	0.92
1:D:2401:ILE:HG12	1:D:2416:LEU:HD21	1.50	0.92
1:A:89:LEU:O	1:A:92:LEU:HD23	1.66	0.92
1:A:2343:ARG:CA	1:A:2346:PHE:HD2	1.83	0.92
1:A:2579:ILE:O	1:A:2580:ILE:C	1.96	0.92
1:C:571:GLN:CG	1:C:574:ILE:HD11	1.98	0.92
1:A:89:LEU:HA	1:A:92:LEU:CD2	1.65	0.92
1:C:2365:LYS:HE2	1:C:2398:TYR:HB3	1.52	0.92
1:B:2272:ASN:C	1:B:2276:TRP:HD1	1.67	0.92
1:B:2339:SER:HA	1:B:2342:LEU:HD12	1.52	0.92
1:C:2236:GLN:HB3	1:D:2619:ASP:OD1	1.70	0.92
1:C:2343:ARG:C	1:C:2346:PHE:HD2	1.73	0.92
1:B:2343:ARG:CA	1:B:2346:PHE:HD2	1.83	0.92
1:D:2239:LYS:NZ	1:D:2677:ARG:HD2	1.83	0.92
1:D:2365:LYS:HE2	1:D:2398:TYR:HB3	1.52	0.92
1:A:2412:PHE:O	1:A:2415:LEU:N	2.02	0.92
1:B:69:GLN:N	1:B:100:LYS:HZ1	1.50	0.92
1:B:102:GLN:OE1	1:B:106:GLU:OE2	1.88	0.92
1:A:2339:SER:HA	1:A:2342:LEU:HD12	1.52	0.92
1:B:2412:PHE:O	1:B:2415:LEU:N	2.02	0.92
1:D:508:LYS:HE3	1:D:511:ARG:HH11	1.33	0.92
1:D:2210:PHE:HD2	1:D:2647:LEU:HD23	1.29	0.92
1:D:2412:PHE:O	1:D:2415:LEU:N	2.02	0.92
1:A:2365:LYS:HE2	1:A:2398:TYR:HB3	1.52	0.91
1:B:2285:VAL:C	1:B:2287:MET:H	1.66	0.91
1:D:69:GLN:N	1:D:100:LYS:HZ1	1.50	0.91
1:D:2285:VAL:C	1:D:2287:MET:N	2.17	0.91
1:A:453:LEU:O	1:A:521:LYS:CE	2.18	0.91
1:A:508:LYS:HE3	1:A:511:ARG:HH11	1.33	0.91
1:A:2349:GLY:O	1:A:2352:PRO:HD2	1.64	0.91
1:A:2559:GLU:HG2	1:A:2562:LEU:HD23	1.49	0.91
1:B:453:LEU:O	1:B:521:LYS:CE	2.18	0.91
1:A:2566:ARG:NH2	1:A:2570:ASP:OD2	2.04	0.91
1:C:2272:ASN:C	1:C:2276:TRP:HD1	1.66	0.91
1:D:646:PRO:C	1:D:648:THR:N	2.10	0.91
1:D:2343:ARG:CA	1:D:2346:PHE:HD2	1.83	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:GLN:OE1	1:A:106:GLU:OE2	1.88	0.91
1:A:2343:ARG:C	1:A:2346:PHE:HD2	1.73	0.91
1:B:2566:ARG:NH2	1:B:2570:ASP:OD2	2.04	0.91
1:C:2210:PHE:HE2	1:C:2647:LEU:HD21	1.31	0.91
1:C:2343:ARG:CA	1:C:2346:PHE:HD2	1.83	0.91
1:C:2339:SER:HA	1:C:2342:LEU:HD12	1.52	0.91
1:C:2412:PHE:O	1:C:2415:LEU:N	2.02	0.91
1:D:2566:ARG:NH2	1:D:2570:ASP:OD2	2.04	0.91
1:A:2348:VAL:CG1	1:A:2353:THR:CG2	2.43	0.91
1:A:2713:SER:CA	1:A:2716:LEU:HD21	2.01	0.91
1:C:2213:PRO:HG3	1:C:2647:LEU:HA	1.46	0.91
1:C:2566:ARG:NH2	1:C:2570:ASP:OD2	2.04	0.91
1:C:32:LEU:CB	1:C:445:PHE:CD2	2.54	0.91
1:C:840:VAL:O	1:C:844:LEU:N	2.03	0.91
1:B:2213:PRO:HG3	1:B:2647:LEU:CB	1.91	0.91
1:B:2348:VAL:HG11	1:B:2353:THR:HG21	1.51	0.91
1:B:2365:LYS:HE2	1:B:2398:TYR:HB3	1.52	0.91
1:D:840:VAL:O	1:D:844:LEU:N	2.04	0.91
1:C:102:GLN:OE1	1:C:106:GLU:OE2	1.88	0.91
1:C:2213:PRO:HG3	1:C:2647:LEU:HD13	1.53	0.91
1:C:2213:PRO:CG	1:C:2647:LEU:HD13	2.01	0.91
1:B:840:VAL:O	1:B:844:LEU:N	2.04	0.91
1:D:2210:PHE:HE2	1:D:2647:LEU:HD21	1.31	0.91
1:A:2348:VAL:HG11	1:A:2353:THR:HG21	1.51	0.91
1:A:2637:ASN:CB	1:A:2640:HIS:CD2	2.50	0.91
1:C:2433:SER:OG	1:C:2593:PHE:HZ	1.52	0.91
1:C:2579:ILE:O	1:C:2580:ILE:C	1.96	0.91
1:C:2623:ASN:OD1	1:B:2677:ARG:HD3	1.70	0.91
1:B:32:LEU:CB	1:B:445:PHE:CD2	2.54	0.91
1:B:2348:VAL:CG1	1:B:2353:THR:HG21	1.99	0.91
1:D:127:LYS:O	1:D:441:ARG:CD	2.19	0.91
1:D:2189:TYR:O	1:D:2192:HIS:N	2.04	0.91
1:D:2345:ILE:HG23	1:D:2353:THR:HG1	1.36	0.91
1:A:127:LYS:O	1:A:441:ARG:CD	2.19	0.90
1:A:2348:VAL:CG1	1:A:2353:THR:HG21	1.99	0.90
1:B:2401:ILE:HG12	1:B:2416:LEU:HD21	1.50	0.90
1:B:525:ALA:HB3	1:B:526:PRO:HD2	1.54	0.90
1:D:2348:VAL:CG1	1:D:2353:THR:HG21	1.99	0.90
1:D:2713:SER:CA	1:D:2716:LEU:HD21	2.01	0.90
1:A:840:VAL:O	1:A:844:LEU:N	2.03	0.90
1:C:2583:ASN:HD21	1:D:2586:PHE:HA	1.28	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:127:LYS:O	1:B:441:ARG:CD	2.19	0.90
1:B:554:ARG:HG2	1:B:554:ARG:HH11	1.37	0.90
1:B:1961:ALA:O	1:B:1962:VAL:C	2.06	0.90
1:A:2401:ILE:HG12	1:A:2416:LEU:HD21	1.50	0.90
1:B:2213:PRO:CG	1:B:2647:LEU:HD13	2.01	0.90
1:D:2576:MET:HA	1:D:2576:MET:HE3	1.53	0.90
1:A:2619:ASP:OD1	1:D:2236:GLN:HB3	1.71	0.90
1:C:453:LEU:O	1:C:521:LYS:CE	2.18	0.90
1:C:2189:TYR:O	1:C:2192:HIS:N	2.04	0.90
1:C:2243:PHE:CE1	1:C:2642:LEU:HD13	1.99	0.90
1:C:2273:MET:N	1:C:2276:TRP:HD1	1.70	0.90
1:C:2343:ARG:C	1:C:2346:PHE:CD2	2.44	0.90
1:D:2243:PHE:CZ	1:D:2638:MET:CB	2.55	0.90
1:D:2348:VAL:CG1	1:D:2353:THR:HB	1.82	0.90
1:D:2372:PHE:HD2	1:D:2395:HIS:HD1	1.20	0.90
1:D:2433:SER:OG	1:D:2593:PHE:HE2	1.45	0.90
1:A:2343:ARG:C	1:A:2346:PHE:CD2	2.44	0.90
1:C:127:LYS:O	1:C:441:ARG:CD	2.19	0.90
1:C:554:ARG:HG2	1:C:554:ARG:HH11	1.37	0.90
1:B:2343:ARG:C	1:B:2346:PHE:HD2	1.73	0.90
1:B:2713:SER:CA	1:B:2716:LEU:HD21	2.01	0.90
1:A:2213:PRO:CG	1:A:2647:LEU:HD13	2.01	0.90
1:A:2637:ASN:HD22	1:A:2640:HIS:CD2	1.73	0.90
1:B:2213:PRO:HG3	1:B:2647:LEU:HD13	1.53	0.90
1:D:1245:CYS:C	1:D:1247:GLY:H	1.75	0.90
1:C:2364:ASN:O	1:C:2367:ILE:HG13	1.72	0.90
1:C:2584:LEU:CD1	1:D:2434:VAL:HG21	2.00	0.90
1:A:32:LEU:CB	1:A:445:PHE:CD2	2.54	0.90
1:A:2210:PHE:HD2	1:A:2647:LEU:HD23	1.29	0.90
1:A:2385:ALA:O	1:A:2389:ASP:OD2	1.90	0.90
1:A:2707:LYS:CE	1:B:2706:MET:O	2.19	0.90
1:B:2372:PHE:HD2	1:B:2395:HIS:HD1	1.19	0.90
1:D:102:GLN:OE1	1:D:106:GLU:OE2	1.88	0.90
1:D:453:LEU:O	1:D:521:LYS:CE	2.18	0.90
1:D:1209:GLY:O	1:D:1259:ILE:O	1.90	0.90
1:D:2637:ASN:CB	1:D:2640:HIS:CD2	2.50	0.90
1:C:2713:SER:CA	1:C:2716:LEU:HD21	2.01	0.90
1:B:2189:TYR:O	1:B:2192:HIS:N	2.04	0.90
1:B:2364:ASN:O	1:B:2367:ILE:HG13	1.72	0.90
1:B:2559:GLU:HG2	1:B:2562:LEU:HD23	1.49	0.90
1:D:32:LEU:CB	1:D:445:PHE:CD2	2.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2213:PRO:HG3	1:D:2647:LEU:CB	1.91	0.90
1:D:2213:PRO:CG	1:D:2647:LEU:HD13	2.01	0.90
1:A:2243:PHE:CE2	1:A:2638:MET:CB	2.53	0.89
1:C:265:ARG:CZ	1:C:265:ARG:HA	2.03	0.89
1:C:2285:VAL:C	1:C:2287:MET:H	1.66	0.89
1:B:1209:GLY:O	1:B:1259:ILE:O	1.90	0.89
1:A:1245:CYS:C	1:A:1247:GLY:H	1.75	0.89
1:C:511:ARG:CZ	1:C:570:ASN:OD1	2.21	0.89
1:B:571:GLN:HG3	1:B:574:ILE:HD11	1.55	0.89
1:B:1245:CYS:C	1:B:1247:GLY:H	1.74	0.89
1:A:2189:TYR:O	1:A:2192:HIS:N	2.04	0.89
1:A:2273:MET:N	1:A:2276:TRP:HD1	1.70	0.89
1:C:525:ALA:HB3	1:C:526:PRO:HD2	1.54	0.89
1:C:1209:GLY:O	1:C:1259:ILE:O	1.90	0.89
1:C:1961:ALA:O	1:C:1962:VAL:C	2.06	0.89
1:C:1961:ALA:O	1:C:1964:THR:N	2.06	0.89
1:C:2637:ASN:CB	1:C:2640:HIS:CD2	2.50	0.89
1:B:265:ARG:HA	1:B:265:ARG:CZ	2.02	0.89
1:B:638:CYS:O	1:B:642:ASN:CA	2.21	0.89
1:D:265:ARG:HA	1:D:265:ARG:CZ	2.02	0.89
1:C:2243:PHE:CZ	1:C:2638:MET:CB	2.54	0.89
1:B:2343:ARG:C	1:B:2346:PHE:CD2	2.44	0.89
1:D:547:ALA:HB1	1:D:548:PRO:HD3	1.55	0.89
1:A:265:ARG:CZ	1:A:265:ARG:HA	2.03	0.89
1:A:525:ALA:HB3	1:A:526:PRO:HD2	1.54	0.89
1:A:557:TYR:HA	1:A:560:LEU:HD12	1.54	0.89
1:A:2364:ASN:O	1:A:2367:ILE:HG13	1.72	0.89
1:A:2586:PHE:HA	1:D:2583:ASN:HD21	1.33	0.89
1:B:514:ASN:C	1:B:516:LEU:N	2.23	0.89
1:B:557:TYR:HA	1:B:560:LEU:HD12	1.55	0.89
1:B:1961:ALA:O	1:B:1964:THR:N	2.06	0.89
1:B:2273:MET:N	1:B:2276:TRP:HD1	1.70	0.89
1:B:2348:VAL:CB	1:B:2353:THR:HG21	1.91	0.89
1:B:2637:ASN:CB	1:B:2640:HIS:CD2	2.50	0.89
1:A:449:ALA:O	1:A:453:LEU:CD2	2.21	0.89
1:A:1209:GLY:O	1:A:1259:ILE:O	1.90	0.89
1:C:638:CYS:O	1:C:642:ASN:CA	2.21	0.89
1:B:72:PHE:HD1	1:B:93:HIS:HB2	1.37	0.89
1:D:2273:MET:N	1:D:2276:TRP:HD1	1.70	0.89
1:A:1961:ALA:O	1:A:1964:THR:N	2.06	0.89
1:B:511:ARG:CZ	1:B:570:ASN:OD1	2.21	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2433:SER:OG	1:A:2593:PHE:HZ	1.52	0.89
1:C:2385:ALA:O	1:C:2389:ASP:OD2	1.90	0.89
1:D:2213:PRO:HG3	1:D:2647:LEU:HD13	1.53	0.89
1:D:2364:ASN:O	1:D:2367:ILE:HG13	1.72	0.89
1:D:2385:ALA:O	1:D:2389:ASP:OD2	1.90	0.89
1:C:522:LEU:HD21	1:C:553:CYS:SG	2.13	0.89
1:D:449:ALA:O	1:D:453:LEU:CD2	2.21	0.89
1:D:511:ARG:CZ	1:D:570:ASN:OD1	2.21	0.89
1:C:557:TYR:HA	1:C:560:LEU:HD12	1.54	0.89
1:A:571:GLN:HG3	1:A:574:ILE:HD11	1.54	0.88
1:B:2579:ILE:O	1:B:2580:ILE:C	1.96	0.88
1:D:571:GLN:HG3	1:D:574:ILE:HD11	1.55	0.88
1:A:1961:ALA:O	1:A:1962:VAL:C	2.06	0.88
1:A:2706:MET:O	1:D:2707:LYS:HE2	1.73	0.88
1:C:2243:PHE:CE2	1:C:2638:MET:CB	2.53	0.88
1:D:2433:SER:O	1:D:2434:VAL:HG22	1.73	0.88
1:A:442:ASP:OD1	1:A:483:PHE:CD2	2.27	0.88
1:D:1961:ALA:O	1:D:1964:THR:N	2.06	0.88
1:D:2343:ARG:C	1:D:2346:PHE:CD2	2.44	0.88
1:A:102:GLN:O	1:A:106:GLU:HG3	1.74	0.88
1:A:638:CYS:O	1:A:642:ASN:CA	2.21	0.88
1:A:2433:SER:O	1:A:2434:VAL:HG22	1.73	0.88
1:C:449:ALA:O	1:C:453:LEU:CD2	2.21	0.88
1:B:2622:ASP:OD1	1:B:2628:PHE:CZ	2.26	0.88
1:D:557:TYR:HA	1:D:560:LEU:HD12	1.54	0.88
1:D:2618:ARG:NH2	1:D:2618:ARG:HB3	1.89	0.88
1:A:1248:ASN:CA	1:A:1252:GLN:N	2.37	0.88
1:C:1245:CYS:C	1:C:1247:GLY:H	1.74	0.88
1:C:2285:VAL:C	1:C:2287:MET:N	2.17	0.88
1:B:442:ASP:OD1	1:B:483:PHE:CD2	2.27	0.88
1:B:449:ALA:O	1:B:453:LEU:CD2	2.21	0.88
1:B:2637:ASN:HB3	1:B:2640:HIS:HD2	1.39	0.88
1:D:514:ASN:C	1:D:516:LEU:N	2.23	0.88
1:D:571:GLN:CB	1:D:574:ILE:HD11	2.04	0.88
1:A:511:ARG:CZ	1:A:570:ASN:OD1	2.21	0.88
1:A:2213:PRO:HG3	1:A:2647:LEU:HD13	1.53	0.88
1:A:2273:MET:HA	1:A:2276:TRP:HD1	1.35	0.88
1:A:2586:PHE:CE1	1:D:2583:ASN:HB2	2.06	0.88
1:B:2273:MET:CA	1:B:2276:TRP:HD1	1.86	0.88
1:B:2618:ARG:NH2	1:B:2618:ARG:HB3	1.89	0.88
1:A:554:ARG:HG2	1:A:554:ARG:HH11	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:571:GLN:CB	1:A:574:ILE:HD11	2.04	0.88
1:C:574:ILE:O	1:C:577:GLN:HB2	1.74	0.88
1:C:2622:ASP:OD1	1:C:2628:PHE:CZ	2.26	0.88
1:B:237:GLY:HA3	1:B:283:GLU:OE2	1.74	0.88
1:B:522:LEU:HD21	1:B:553:CYS:SG	2.13	0.88
1:B:2710:THR:HG23	1:B:2711:ASN:HD22	1.38	0.88
1:A:522:LEU:HD21	1:A:553:CYS:SG	2.13	0.88
1:A:2710:THR:HG23	1:A:2711:ASN:HD22	1.38	0.88
1:C:2433:SER:O	1:C:2434:VAL:HG22	1.73	0.88
1:C:2576:MET:HA	1:C:2576:MET:HE3	1.55	0.88
1:C:2637:ASN:HB3	1:C:2640:HIS:HD2	1.39	0.88
1:B:102:GLN:O	1:B:106:GLU:HG3	1.74	0.88
1:B:1116:LYS:O	1:B:1119:LEU:N	2.07	0.88
1:D:522:LEU:HD21	1:D:553:CYS:SG	2.13	0.88
1:D:1116:LYS:O	1:D:1119:LEU:N	2.07	0.88
1:C:2273:MET:CA	1:C:2276:TRP:HD1	1.86	0.88
1:C:102:GLN:O	1:C:106:GLU:HG3	1.74	0.88
1:C:393:LEU:HD21	1:B:2737:GLY:O	1.73	0.88
1:C:547:ALA:HB1	1:C:548:PRO:HD3	1.55	0.88
1:D:1209:GLY:HA2	1:D:1259:ILE:O	1.74	0.88
1:A:2618:ARG:HB3	1:A:2618:ARG:NH2	1.89	0.87
1:C:2720:LYS:O	1:C:2720:LYS:NZ	2.07	0.87
1:D:638:CYS:O	1:D:642:ASN:CA	2.21	0.87
1:A:2273:MET:CA	1:A:2276:TRP:HD1	1.86	0.87
1:A:2622:ASP:OD1	1:A:2628:PHE:CZ	2.26	0.87
1:C:514:ASN:C	1:C:516:LEU:N	2.23	0.87
1:C:2618:ARG:NH2	1:C:2618:ARG:HB3	1.89	0.87
1:B:2720:LYS:NZ	1:B:2720:LYS:O	2.07	0.87
1:A:1116:LYS:O	1:A:1119:LEU:N	2.07	0.87
1:A:2343:ARG:HA	1:A:2346:PHE:HD2	1.38	0.87
1:C:1334:LEU:O	1:C:1338:GLY:N	2.08	0.87
1:B:2372:PHE:HD2	1:B:2395:HIS:ND1	1.73	0.87
1:B:2433:SER:O	1:B:2434:VAL:HG22	1.73	0.87
1:D:102:GLN:O	1:D:106:GLU:HG3	1.74	0.87
1:D:525:ALA:HB3	1:D:526:PRO:HD2	1.54	0.87
1:A:237:GLY:HA3	1:A:283:GLU:OE2	1.74	0.87
1:A:2243:PHE:CZ	1:A:2638:MET:CB	2.54	0.87
1:C:237:GLY:HA3	1:C:283:GLU:OE2	1.73	0.87
1:B:1209:GLY:HA2	1:B:1259:ILE:O	1.74	0.87
1:B:2385:ALA:O	1:B:2389:ASP:OD2	1.90	0.87
1:D:2433:SER:OG	1:D:2593:PHE:HZ	1.52	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2637:ASN:HB3	1:D:2640:HIS:HD2	1.39	0.87
1:A:2239:LYS:HG2	1:A:2240:ILE:N	1.90	0.87
1:C:2021:LEU:O	1:C:2022:GLY:C	2.11	0.87
1:B:1248:ASN:CA	1:B:1252:GLN:N	2.37	0.87
1:B:2243:PHE:CZ	1:B:2638:MET:CB	2.54	0.87
1:A:72:PHE:HD1	1:A:93:HIS:HB2	1.37	0.87
1:A:574:ILE:O	1:A:577:GLN:HB2	1.74	0.87
1:A:760:ASP:O	1:A:762:ASP:N	2.07	0.87
1:A:2720:LYS:O	1:A:2720:LYS:NZ	2.07	0.87
1:C:571:GLN:HG3	1:C:574:ILE:HD11	1.55	0.87
1:C:1116:LYS:O	1:C:1119:LEU:N	2.07	0.87
1:C:2372:PHE:HD2	1:C:2395:HIS:ND1	1.73	0.87
1:B:2021:LEU:O	1:B:2022:GLY:C	2.11	0.87
1:D:2219:LEU:HD21	1:D:2254:MET:HE1	1.57	0.87
1:A:2637:ASN:HB3	1:A:2640:HIS:HD2	1.39	0.87
1:B:760:ASP:O	1:B:762:ASP:N	2.07	0.87
1:D:2710:THR:HG23	1:D:2711:ASN:HD22	1.38	0.87
1:A:2372:PHE:HD2	1:A:2395:HIS:ND1	1.73	0.87
1:C:2681:MET:HG3	1:C:2682:SER:O	1.75	0.87
1:D:442:ASP:OD1	1:D:483:PHE:CD2	2.27	0.87
1:D:1248:ASN:CA	1:D:1252:GLN:N	2.37	0.87
1:D:2681:MET:HG3	1:D:2682:SER:O	1.75	0.87
1:C:72:PHE:HD1	1:C:93:HIS:HB2	1.37	0.87
1:C:263:PHE:HE2	1:C:265:ARG:NE	1.73	0.87
1:C:1248:ASN:CA	1:C:1252:GLN:N	2.37	0.87
1:C:2271:ARG:NH1	1:C:2272:ASN:OD1	2.07	0.87
1:C:2578:ILE:CD1	1:C:2582:LEU:HD12	2.05	0.87
1:D:237:GLY:HA3	1:D:283:GLU:OE2	1.74	0.87
1:C:2583:ASN:HB2	1:D:2586:PHE:CE1	2.09	0.86
1:B:2273:MET:HA	1:B:2276:TRP:HD1	1.35	0.86
1:B:2681:MET:HG3	1:B:2682:SER:O	1.75	0.86
1:D:554:ARG:HG2	1:D:554:ARG:HH11	1.36	0.86
1:D:2713:SER:O	1:D:2716:LEU:CD2	2.23	0.86
1:A:2713:SER:O	1:A:2716:LEU:CD2	2.23	0.86
1:C:442:ASP:OD1	1:C:483:PHE:CD2	2.27	0.86
1:C:1209:GLY:HA2	1:C:1259:ILE:O	1.74	0.86
1:C:2586:PHE:CD1	1:B:2583:ASN:CB	2.55	0.86
1:B:1334:LEU:O	1:B:1338:GLY:N	2.08	0.86
1:B:2271:ARG:NH1	1:B:2272:ASN:OD1	2.07	0.86
1:B:2578:ILE:CD1	1:B:2582:LEU:HD12	2.05	0.86
1:D:574:ILE:O	1:D:577:GLN:HB2	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:760:ASP:O	1:D:762:ASP:N	2.07	0.86
1:D:2273:MET:CA	1:D:2276:TRP:HD1	1.86	0.86
1:A:2271:ARG:NH1	1:A:2272:ASN:OD1	2.07	0.86
1:C:760:ASP:O	1:C:762:ASP:N	2.07	0.86
1:C:2288:ASN:HA	1:C:2413:TYR:HB3	1.56	0.86
1:C:2710:THR:HG23	1:C:2711:ASN:HD22	1.38	0.86
1:B:574:ILE:O	1:B:577:GLN:HB2	1.74	0.86
1:D:1334:LEU:O	1:D:1338:GLY:N	2.08	0.86
1:A:567:TYR:HB2	1:A:571:GLN:CD	1.96	0.86
1:A:2243:PHE:CE1	1:A:2642:LEU:HD13	1.99	0.86
1:C:2200:ARG:HD2	1:C:2662:TYR:CG	2.11	0.86
1:C:2345:ILE:HD13	1:C:2356:LEU:HD23	1.57	0.86
1:B:2370:MET:HA	1:B:2370:MET:CE	2.05	0.86
1:D:2720:LYS:O	1:D:2720:LYS:NZ	2.07	0.86
1:C:2271:ARG:HH11	1:C:2272:ASN:CG	1.75	0.86
1:B:263:PHE:HE2	1:B:265:ARG:NE	1.73	0.86
1:B:571:GLN:CB	1:B:574:ILE:HD11	2.04	0.86
1:D:1209:GLY:CA	1:D:1259:ILE:O	2.24	0.86
1:D:2239:LYS:HG2	1:D:2240:ILE:N	1.90	0.86
1:D:2288:ASN:HA	1:D:2413:TYR:HB3	1.56	0.86
1:D:2372:PHE:HD2	1:D:2395:HIS:ND1	1.73	0.86
1:D:2622:ASP:OD1	1:D:2628:PHE:CZ	2.26	0.86
1:A:2681:MET:HG3	1:A:2682:SER:O	1.75	0.86
1:C:571:GLN:CB	1:C:574:ILE:HD11	2.04	0.86
1:C:1209:GLY:CA	1:C:1259:ILE:O	2.24	0.86
1:D:2273:MET:HA	1:D:2276:TRP:HD1	1.35	0.86
1:D:2343:ARG:HA	1:D:2346:PHE:HD2	1.38	0.86
1:A:2576:MET:HE3	1:A:2580:ILE:HG13	1.58	0.86
1:C:2370:MET:HA	1:C:2370:MET:CE	2.05	0.86
1:D:2578:ILE:CD1	1:D:2582:LEU:HD12	2.05	0.86
1:C:453:LEU:CA	1:C:521:LYS:NZ	2.38	0.86
1:C:2713:SER:O	1:C:2716:LEU:CD2	2.23	0.86
1:B:2239:LYS:HG2	1:B:2240:ILE:N	1.90	0.86
1:B:2713:SER:O	1:B:2716:LEU:CD2	2.23	0.86
1:D:2200:ARG:HD2	1:D:2662:TYR:CG	2.11	0.86
1:A:2345:ILE:HD13	1:A:2356:LEU:HD23	1.57	0.86
1:A:2370:MET:HA	1:A:2370:MET:CE	2.05	0.86
1:B:2288:ASN:HB3	1:B:2413:TYR:HB3	1.58	0.86
1:A:1209:GLY:HA2	1:A:1259:ILE:O	1.74	0.86
1:A:1334:LEU:O	1:A:1338:GLY:N	2.08	0.86
1:A:2200:ARG:HD2	1:A:2662:TYR:CG	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2285:VAL:HG13	1:A:2286:LEU:N	1.91	0.86
1:C:2343:ARG:HA	1:C:2346:PHE:HD2	1.38	0.86
1:B:508:LYS:HE3	1:B:511:ARG:NH1	1.91	0.86
1:B:2200:ARG:HD2	1:B:2662:TYR:CG	2.11	0.86
1:D:2278:SER:O	1:D:2281:PHE:CD2	2.13	0.86
1:A:2348:VAL:HG12	1:A:2353:THR:OG1	1.76	0.85
1:B:299:TRP:CH2	1:B:377:GLY:O	2.29	0.85
1:D:263:PHE:HE2	1:D:265:ARG:NE	1.73	0.85
1:D:2271:ARG:NH1	1:D:2272:ASN:OD1	2.07	0.85
1:C:508:LYS:HE3	1:C:511:ARG:NH1	1.91	0.85
1:B:2707:LYS:HD2	1:B:2711:ASN:HD21	1.41	0.85
1:A:2707:LYS:HD2	1:A:2711:ASN:HD21	1.42	0.85
1:C:2178:GLY:C	1:C:2186:LEU:HD21	1.97	0.85
1:D:2285:VAL:HG13	1:D:2286:LEU:N	1.91	0.85
1:D:2370:MET:HA	1:D:2370:MET:CE	2.05	0.85
1:A:1317:LYS:C	1:A:1385:CYS:CA	2.45	0.85
1:B:2178:GLY:C	1:B:2186:LEU:HD21	1.97	0.85
1:D:453:LEU:CA	1:D:521:LYS:NZ	2.38	0.85
1:D:2178:GLY:C	1:D:2186:LEU:HD21	1.97	0.85
1:D:2345:ILE:HD13	1:D:2356:LEU:HD23	1.57	0.85
1:A:72:PHE:O	1:A:75:ALA:CB	2.25	0.85
1:A:453:LEU:CA	1:A:521:LYS:NZ	2.38	0.85
1:A:263:PHE:HE2	1:A:265:ARG:NE	1.73	0.85
1:A:2178:GLY:C	1:A:2186:LEU:HD21	1.97	0.85
1:C:2288:ASN:HB3	1:C:2413:TYR:HB3	1.58	0.85
1:C:2348:VAL:CB	1:C:2353:THR:HG21	1.91	0.85
1:C:2649:LYS:HA	1:C:2649:LYS:HZ2	1.38	0.85
1:B:72:PHE:O	1:B:75:ALA:CB	2.25	0.85
1:B:2216:CYS:SG	1:B:2646:VAL:HG11	2.17	0.85
1:D:1317:LYS:C	1:D:1385:CYS:CA	2.45	0.85
1:D:2288:ASN:HB2	1:D:2413:TYR:HB3	1.58	0.85
1:D:2715:GLN:NE2	1:D:2715:GLN:HA	1.91	0.85
1:A:508:LYS:HE3	1:A:511:ARG:NH1	1.91	0.85
1:A:514:ASN:C	1:A:516:LEU:N	2.23	0.85
1:A:1209:GLY:CA	1:A:1259:ILE:O	2.24	0.85
1:A:2288:ASN:HB3	1:A:2413:TYR:HB3	1.58	0.85
1:B:567:TYR:HB2	1:B:571:GLN:CD	1.96	0.85
1:B:1317:LYS:C	1:B:1385:CYS:CA	2.45	0.85
1:B:2345:ILE:HD13	1:B:2356:LEU:HD23	1.57	0.85
1:A:299:TRP:CH2	1:A:377:GLY:O	2.29	0.85
1:A:2288:ASN:HA	1:A:2413:TYR:HB3	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2578:ILE:CD1	1:A:2582:LEU:HD12	2.05	0.85
1:C:299:TRP:CH2	1:C:377:GLY:O	2.29	0.85
1:C:2239:LYS:HG2	1:C:2240:ILE:N	1.90	0.85
1:B:2285:VAL:HG13	1:B:2286:LEU:N	1.91	0.85
1:D:2348:VAL:HG12	1:D:2353:THR:OG1	1.76	0.85
1:D:2707:LYS:HD2	1:D:2711:ASN:HD21	1.42	0.85
1:A:2178:GLY:O	1:A:2186:LEU:HD21	1.76	0.85
1:C:2707:LYS:HD2	1:C:2711:ASN:HD21	1.42	0.85
1:B:1209:GLY:CA	1:B:1259:ILE:O	2.24	0.85
1:D:299:TRP:CH2	1:D:377:GLY:O	2.29	0.85
1:D:2178:GLY:O	1:D:2186:LEU:HD21	1.76	0.85
1:A:2191:LYS:O	1:A:2192:HIS:HB2	1.77	0.85
1:A:2372:PHE:HD2	1:A:2395:HIS:HD1	1.19	0.85
1:C:1317:LYS:C	1:C:1385:CYS:CA	2.45	0.85
1:B:453:LEU:CA	1:B:521:LYS:NZ	2.38	0.85
1:B:2288:ASN:HA	1:B:2413:TYR:HB3	1.56	0.85
1:D:508:LYS:HE3	1:D:511:ARG:NH1	1.91	0.85
1:A:265:ARG:HA	1:A:265:ARG:NE	1.92	0.84
1:A:2216:CYS:SG	1:A:2646:VAL:HG11	2.17	0.84
1:A:2423:ARG:O	1:A:2423:ARG:NH2	2.10	0.84
1:C:2423:ARG:O	1:C:2423:ARG:NH2	2.10	0.84
1:C:2434:VAL:CG2	1:B:2584:LEU:HD11	2.04	0.84
1:B:2343:ARG:HA	1:B:2346:PHE:HD2	1.38	0.84
1:D:2021:LEU:O	1:D:2022:GLY:C	2.11	0.84
1:D:2216:CYS:SG	1:D:2646:VAL:HG11	2.17	0.84
1:D:2423:ARG:O	1:D:2423:ARG:NH2	2.10	0.84
1:A:2021:LEU:O	1:A:2022:GLY:C	2.11	0.84
1:C:300:ASN:CG	1:B:2730:LYS:HG2	1.97	0.84
1:C:2288:ASN:HB2	1:C:2413:TYR:HB3	1.58	0.84
1:B:2178:GLY:O	1:B:2186:LEU:HD21	1.76	0.84
1:D:2579:ILE:O	1:D:2580:ILE:C	1.97	0.84
1:A:460:LEU:O	1:A:463:GLY:O	1.95	0.84
1:A:2360:PHE:HA	1:A:2363:CYS:SG	2.18	0.84
1:C:2216:CYS:SG	1:C:2646:VAL:HG11	2.17	0.84
1:C:2452:VAL:HG23	1:C:2573:PHE:CZ	2.13	0.84
1:D:567:TYR:HB2	1:D:571:GLN:CD	1.96	0.84
1:B:460:LEU:O	1:B:463:GLY:O	1.95	0.84
1:B:2273:MET:N	1:B:2276:TRP:CD1	2.45	0.84
1:B:2360:PHE:HA	1:B:2363:CYS:SG	2.18	0.84
1:D:460:LEU:O	1:D:463:GLY:O	1.95	0.84
1:D:2243:PHE:CE1	1:D:2642:LEU:HD13	1.99	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:884:LEU:O	1:A:888:THR:N	2.10	0.84
1:D:72:PHE:O	1:D:75:ALA:CB	2.25	0.84
1:D:2288:ASN:HB3	1:D:2413:TYR:HB3	1.58	0.84
1:D:2452:VAL:HG23	1:D:2573:PHE:CZ	2.13	0.84
1:C:72:PHE:O	1:C:75:ALA:CB	2.25	0.84
1:C:2273:MET:HA	1:C:2276:TRP:HD1	1.35	0.84
1:B:2219:LEU:HD21	1:B:2254:MET:HE2	1.55	0.84
1:D:2343:ARG:O	1:D:2346:PHE:HD2	1.38	0.84
1:D:2348:VAL:CG1	1:D:2353:THR:CG2	2.43	0.84
1:A:2288:ASN:HB2	1:A:2413:TYR:HB3	1.58	0.84
1:A:2695:LEU:O	1:A:2697:ASN:N	2.11	0.84
1:C:2370:MET:HA	1:C:2370:MET:HE3	1.57	0.84
1:B:509:LEU:O	1:B:509:LEU:HD22	1.78	0.84
1:B:2423:ARG:NH2	1:B:2423:ARG:O	2.10	0.84
1:B:2452:VAL:HG23	1:B:2573:PHE:CZ	2.13	0.84
1:D:74:LYS:HA	1:D:74:LYS:HZ3	1.39	0.84
1:D:2191:LYS:O	1:D:2192:HIS:HB2	1.77	0.84
1:A:509:LEU:O	1:A:509:LEU:HD22	1.78	0.84
1:A:2348:VAL:HG12	1:A:2353:THR:CB	2.07	0.84
1:A:2452:VAL:HG23	1:A:2573:PHE:CZ	2.13	0.84
1:C:567:TYR:HB2	1:C:571:GLN:CD	1.96	0.84
1:C:2178:GLY:O	1:C:2186:LEU:HD21	1.76	0.84
1:B:1995:THR:O	1:B:1998:ASN:O	1.96	0.84
1:D:884:LEU:O	1:D:888:THR:N	2.10	0.84
1:D:2695:LEU:O	1:D:2697:ASN:N	2.11	0.84
1:A:1995:THR:O	1:A:1998:ASN:O	1.96	0.84
1:A:2219:LEU:HD21	1:A:2254:MET:HE2	1.59	0.84
1:C:2285:VAL:HG13	1:C:2286:LEU:N	1.91	0.84
1:A:516:LEU:H	1:A:516:LEU:HD12	1.43	0.84
1:A:2273:MET:N	1:A:2276:TRP:CD1	2.45	0.84
1:A:2706:MET:HG2	1:D:2703:GLU:OE2	1.76	0.84
1:C:509:LEU:O	1:C:509:LEU:HD22	1.78	0.84
1:C:884:LEU:O	1:C:888:THR:N	2.10	0.84
1:C:1209:GLY:C	1:C:1259:ILE:O	2.17	0.84
1:C:2360:PHE:HA	1:C:2363:CYS:SG	2.18	0.84
1:C:2447:LEU:HD13	1:D:2427:LEU:HD11	1.59	0.84
1:C:2710:THR:HB	1:B:2707:LYS:HZ3	1.05	0.84
1:A:393:LEU:HD21	1:D:2737:GLY:O	1.77	0.83
1:D:509:LEU:O	1:D:512:GLU:HB3	1.78	0.83
1:D:2360:PHE:HA	1:D:2363:CYS:SG	2.18	0.83
1:C:265:ARG:HA	1:C:265:ARG:NE	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:652:ILE:O	1:C:656:VAL:N	2.11	0.83
1:C:2715:GLN:NE2	1:C:2715:GLN:HA	1.91	0.83
1:B:2695:LEU:O	1:B:2697:ASN:N	2.11	0.83
1:C:2348:VAL:HG12	1:C:2353:THR:CB	2.07	0.83
1:A:32:LEU:CB	1:A:445:PHE:CE1	2.61	0.83
1:C:453:LEU:HA	1:C:521:LYS:HZ2	1.34	0.83
1:C:2219:LEU:HD21	1:C:2254:MET:HE2	1.59	0.83
1:C:2707:LYS:CE	1:D:2706:MET:O	2.25	0.83
1:B:265:ARG:HA	1:B:265:ARG:NE	1.92	0.83
1:B:509:LEU:O	1:B:512:GLU:HB3	1.78	0.83
1:B:516:LEU:H	1:B:516:LEU:HD12	1.43	0.83
1:B:2216:CYS:SG	1:B:2646:VAL:HG22	2.19	0.83
1:A:453:LEU:O	1:A:521:LYS:NZ	2.12	0.83
1:A:2216:CYS:SG	1:A:2646:VAL:HG22	2.19	0.83
1:B:2271:ARG:HH11	1:B:2272:ASN:CG	1.75	0.83
1:B:2348:VAL:HG12	1:B:2353:THR:OG1	1.76	0.83
1:B:2576:MET:HE3	1:B:2580:ILE:HG13	1.59	0.83
1:A:509:LEU:O	1:A:512:GLU:HB3	1.78	0.83
1:A:547:ALA:HB1	1:A:548:PRO:HD3	1.55	0.83
1:A:2571:LEU:O	1:A:2574:PHE:HB3	1.78	0.83
1:C:32:LEU:CB	1:C:445:PHE:CE1	2.61	0.83
1:C:270:GLN:C	1:C:272:ALA:N	2.30	0.83
1:C:1313:GLN:O	1:C:1316:VAL:C	2.17	0.83
1:B:453:LEU:O	1:B:521:LYS:NZ	2.12	0.83
1:B:2288:ASN:HB2	1:B:2413:TYR:HB3	1.58	0.83
1:D:32:LEU:CB	1:D:445:PHE:CE1	2.61	0.83
1:C:2571:LEU:O	1:C:2574:PHE:HB3	1.78	0.83
1:D:2348:VAL:HG12	1:D:2353:THR:CB	2.07	0.83
1:A:1313:GLN:O	1:A:1316:VAL:C	2.17	0.83
1:C:453:LEU:CA	1:C:521:LYS:HZ2	1.90	0.83
1:C:516:LEU:H	1:C:516:LEU:HD12	1.43	0.83
1:B:2571:LEU:O	1:B:2574:PHE:HB3	1.78	0.83
1:C:547:ALA:CB	1:C:548:PRO:CD	2.17	0.83
1:C:2348:VAL:HG12	1:C:2353:THR:OG1	1.76	0.83
1:C:2372:PHE:HD2	1:C:2395:HIS:HD1	1.19	0.83
1:B:884:LEU:O	1:B:888:THR:N	2.10	0.83
1:B:1209:GLY:C	1:B:1259:ILE:O	2.17	0.83
1:D:265:ARG:HA	1:D:265:ARG:NE	1.92	0.83
1:D:509:LEU:O	1:D:509:LEU:HD22	1.78	0.83
1:D:1313:GLN:O	1:D:1316:VAL:C	2.17	0.83
1:D:2239:LYS:NZ	1:D:2677:ARG:CD	2.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:460:LEU:O	1:C:463:GLY:O	1.95	0.83
1:C:2695:LEU:O	1:C:2697:ASN:N	2.11	0.83
1:B:2715:GLN:NE2	1:B:2715:GLN:HA	1.91	0.83
1:C:2191:LYS:O	1:C:2192:HIS:HB2	1.77	0.82
1:C:2700:GLU:OE1	1:D:2699:GLN:CA	2.24	0.82
1:B:2288:ASN:CB	1:B:2413:TYR:CB	2.56	0.82
1:B:2399:LEU:O	1:B:2399:LEU:HD22	1.79	0.82
1:D:270:GLN:C	1:D:272:ALA:N	2.30	0.82
1:D:516:LEU:HD12	1:D:516:LEU:H	1.43	0.82
1:D:1995:THR:O	1:D:1998:ASN:O	1.96	0.82
1:C:453:LEU:O	1:C:521:LYS:NZ	2.12	0.82
1:B:1209:GLY:O	1:B:1259:ILE:CA	2.27	0.82
1:B:2348:VAL:CG1	1:B:2353:THR:CG2	2.43	0.82
1:D:453:LEU:O	1:D:521:LYS:NZ	2.12	0.82
1:D:2571:LEU:O	1:D:2574:PHE:HB3	1.78	0.82
1:A:2429:ASN:OD1	1:A:2432:LYS:HE2	1.79	0.82
1:A:2623:ASN:CG	1:D:2677:ARG:NH2	2.32	0.82
1:A:2677:ARG:NH2	1:B:2623:ASN:CG	2.33	0.82
1:B:2191:LYS:O	1:B:2192:HIS:HB2	1.77	0.82
1:D:2343:ARG:HA	1:D:2346:PHE:CD2	2.15	0.82
1:A:69:GLN:H	1:A:100:LYS:NZ	1.76	0.82
1:A:2399:LEU:O	1:A:2399:LEU:HD22	1.79	0.82
1:A:2586:PHE:CD1	1:D:2583:ASN:CB	2.61	0.82
1:C:2715:GLN:HE22	1:D:2713:SER:HB2	1.03	0.82
1:D:2213:PRO:CA	1:D:2647:LEU:HD13	2.10	0.82
1:A:1209:GLY:C	1:A:1259:ILE:O	2.17	0.82
1:A:2278:SER:O	1:A:2281:PHE:CD2	2.13	0.82
1:A:2396:LEU:O	1:A:2396:LEU:HD22	1.79	0.82
1:C:2239:LYS:NZ	1:C:2677:ARG:CD	2.42	0.82
1:C:2343:ARG:HA	1:C:2346:PHE:CD2	2.14	0.82
1:C:2396:LEU:O	1:C:2396:LEU:HD22	1.79	0.82
1:B:2213:PRO:CA	1:B:2647:LEU:HD13	2.10	0.82
1:D:2288:ASN:CB	1:D:2413:TYR:CB	2.56	0.82
1:A:2584:LEU:HD11	1:B:2434:VAL:HG21	0.90	0.82
1:B:652:ILE:O	1:B:656:VAL:N	2.11	0.82
1:B:1313:GLN:O	1:B:1316:VAL:C	2.17	0.82
1:D:514:ASN:HD22	1:D:517:LYS:CD	1.93	0.82
1:D:2425:GLU:O	1:D:2428:LEU:HB3	1.80	0.82
1:A:2200:ARG:CB	1:A:2662:TYR:CE2	2.63	0.82
1:C:77:LYS:HZ2	1:C:77:LYS:H	1.27	0.82
1:B:2200:ARG:CB	1:B:2662:TYR:CE2	2.63	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1209:GLY:C	1:D:1259:ILE:O	2.17	0.82
1:A:270:GLN:C	1:A:272:ALA:N	2.30	0.82
1:A:2213:PRO:CA	1:A:2647:LEU:HD13	2.10	0.82
1:A:2239:LYS:NZ	1:A:2677:ARG:CD	2.42	0.82
1:A:2715:GLN:NE2	1:A:2715:GLN:HA	1.91	0.82
1:C:509:LEU:O	1:C:512:GLU:HB3	1.78	0.82
1:C:1995:THR:O	1:C:1998:ASN:O	1.96	0.82
1:B:32:LEU:CB	1:B:445:PHE:CE1	2.61	0.82
1:B:456:ILE:HB	1:B:521:LYS:HZ2	1.45	0.82
1:D:453:LEU:HA	1:D:521:LYS:HZ2	1.41	0.82
1:D:2399:LEU:O	1:D:2399:LEU:HD22	1.79	0.82
1:A:2341:ILE:HD11	1:A:2360:PHE:HE2	1.45	0.82
1:C:2278:SER:O	1:C:2281:PHE:CD2	2.13	0.82
1:C:2425:GLU:O	1:C:2428:LEU:HB3	1.80	0.82
1:B:2341:ILE:HD11	1:B:2360:PHE:HE2	1.45	0.82
1:B:2425:GLU:O	1:B:2428:LEU:HB3	1.80	0.82
1:A:2699:GLN:CA	1:D:2700:GLU:OE1	2.26	0.82
1:C:2399:LEU:O	1:C:2399:LEU:HD22	1.79	0.82
1:B:460:LEU:CD2	1:B:465:ILE:HG23	2.06	0.82
1:B:2239:LYS:NZ	1:B:2677:ARG:CD	2.42	0.82
1:D:652:ILE:O	1:D:656:VAL:N	2.11	0.82
1:D:2586:PHE:O	1:D:2588:VAL:N	2.13	0.82
1:C:1209:GLY:O	1:C:1259:ILE:CA	2.27	0.81
1:B:69:GLN:H	1:B:100:LYS:NZ	1.76	0.81
1:D:2707:LYS:O	1:D:2710:THR:HG22	1.80	0.81
1:A:2239:LYS:HZ3	1:A:2677:ARG:HD2	1.45	0.81
1:C:1979:ASN:O	1:C:1980:HIS:O	1.98	0.81
1:C:2288:ASN:CB	1:C:2413:TYR:CB	2.56	0.81
1:B:77:LYS:HZ2	1:B:77:LYS:H	1.28	0.81
1:B:2429:ASN:OD1	1:B:2432:LYS:HE2	1.79	0.81
1:B:2576:MET:HA	1:B:2576:MET:HE3	1.60	0.81
1:B:2586:PHE:O	1:B:2588:VAL:N	2.13	0.81
1:D:1209:GLY:O	1:D:1259:ILE:CA	2.27	0.81
1:D:2046:GLY:O	1:D:2048:CYS:N	2.14	0.81
1:A:2046:GLY:O	1:A:2048:CYS:N	2.14	0.81
1:A:2343:ARG:HA	1:A:2346:PHE:CD2	2.14	0.81
1:A:2583:ASN:HB2	1:B:2586:PHE:CZ	2.16	0.81
1:A:2700:GLU:CD	1:B:2699:GLN:HA	1.99	0.81
1:A:2713:SER:HA	1:A:2716:LEU:HD21	1.63	0.81
1:C:2216:CYS:SG	1:C:2646:VAL:HG22	2.19	0.81
1:C:2677:ARG:NH2	1:D:2623:ASN:CG	2.32	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:GLN:C	1:B:272:ALA:N	2.30	0.81
1:B:2396:LEU:O	1:B:2396:LEU:HD22	1.79	0.81
1:D:77:LYS:HZ2	1:D:77:LYS:H	1.27	0.81
1:D:2271:ARG:HH11	1:D:2272:ASN:CG	1.75	0.81
1:B:2343:ARG:HA	1:B:2346:PHE:CD2	2.14	0.81
1:B:2401:ILE:HD13	1:B:2416:LEU:CD2	2.08	0.81
1:D:2586:PHE:O	1:D:2587:GLY:C	2.17	0.81
1:A:1209:GLY:O	1:A:1259:ILE:CA	2.27	0.81
1:D:511:ARG:NE	1:D:570:ASN:OD1	2.14	0.81
1:D:2216:CYS:SG	1:D:2646:VAL:HG22	2.19	0.81
1:D:2341:ILE:HD11	1:D:2360:PHE:HE2	1.45	0.81
1:D:2396:LEU:O	1:D:2396:LEU:HD22	1.79	0.81
1:A:456:ILE:HB	1:A:521:LYS:HZ2	1.45	0.81
1:A:2586:PHE:O	1:A:2588:VAL:N	2.13	0.81
1:A:2714:GLY:O	1:A:2717:SER:OG	1.98	0.81
1:B:547:ALA:HB1	1:B:548:PRO:HD3	1.55	0.81
1:D:72:PHE:HD1	1:D:93:HIS:HB2	1.37	0.81
1:A:2219:LEU:HD21	1:A:2254:MET:HE1	1.63	0.81
1:A:2273:MET:CB	1:A:2371:SER:OG	2.28	0.81
1:C:69:GLN:H	1:C:100:LYS:NZ	1.76	0.81
1:C:511:ARG:NE	1:C:570:ASN:OD1	2.14	0.81
1:C:2586:PHE:O	1:C:2588:VAL:N	2.13	0.81
1:D:511:ARG:NH1	1:D:570:ASN:OD1	2.14	0.81
1:D:2239:LYS:HZ2	1:D:2677:ARG:NE	1.79	0.81
1:D:2429:ASN:OD1	1:D:2432:LYS:HE2	1.79	0.81
1:D:2576:MET:HE3	1:D:2580:ILE:HG13	1.61	0.81
1:A:77:LYS:HZ2	1:A:77:LYS:H	1.28	0.81
1:A:2696:ARG:HH11	1:D:2696:ARG:NE	1.78	0.81
1:C:2213:PRO:CA	1:C:2647:LEU:HD13	2.10	0.81
1:C:2707:LYS:HD2	1:C:2711:ASN:ND2	1.96	0.81
1:B:511:ARG:NH1	1:B:570:ASN:OD1	2.14	0.81
1:B:2046:GLY:O	1:B:2048:CYS:N	2.14	0.81
1:D:2714:GLY:O	1:D:2717:SER:OG	1.98	0.81
1:A:652:ILE:O	1:A:656:VAL:N	2.11	0.81
1:C:2341:ILE:HD11	1:C:2360:PHE:HE2	1.45	0.81
1:C:2637:ASN:HB3	1:C:2640:HIS:CD2	2.15	0.81
1:B:1979:ASN:O	1:B:1980:HIS:O	1.98	0.81
1:D:2559:GLU:CD	1:D:2562:LEU:CG	2.49	0.81
1:A:1979:ASN:O	1:A:1980:HIS:O	1.98	0.81
1:A:2425:GLU:O	1:A:2428:LEU:HB3	1.80	0.81
1:A:2583:ASN:HD22	1:B:2586:PHE:CA	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2700:GLU:CD	1:B:2702:LEU:CD1	2.17	0.81
1:B:511:ARG:NE	1:B:570:ASN:OD1	2.14	0.81
1:B:2707:LYS:HD2	1:B:2711:ASN:ND2	1.96	0.81
1:D:2433:SER:CB	1:D:2593:PHE:CE1	2.59	0.81
1:A:621:LEU:O	1:A:625:ASN:N	2.14	0.80
1:A:2341:ILE:HD11	1:A:2360:PHE:CE2	2.16	0.80
1:C:69:GLN:CD	1:C:100:LYS:HD2	1.90	0.80
1:B:72:PHE:CD1	1:B:93:HIS:CB	2.60	0.80
1:B:2062:GLY:C	1:B:2064:ASP:H	1.83	0.80
1:D:760:ASP:O	1:D:761:VAL:C	2.18	0.80
1:C:73:TRP:O	1:C:77:LYS:NZ	2.14	0.80
1:C:2200:ARG:CB	1:C:2662:TYR:CE2	2.63	0.80
1:C:2707:LYS:O	1:C:2710:THR:HG22	1.80	0.80
1:B:73:TRP:O	1:B:77:LYS:NZ	2.14	0.80
1:B:453:LEU:HA	1:B:521:LYS:HZ2	1.43	0.80
1:B:2348:VAL:HG12	1:B:2353:THR:CB	2.07	0.80
1:D:2189:TYR:O	1:D:2192:HIS:O	1.99	0.80
1:D:2637:ASN:HB3	1:D:2640:HIS:CD2	2.15	0.80
1:A:2637:ASN:HB3	1:A:2640:HIS:CD2	2.15	0.80
1:C:514:ASN:OD1	1:C:516:LEU:CD1	2.23	0.80
1:C:2062:GLY:C	1:C:2064:ASP:H	1.83	0.80
1:C:2273:MET:N	1:C:2276:TRP:CD1	2.45	0.80
1:C:2429:ASN:OD1	1:C:2432:LYS:HE2	1.79	0.80
1:C:2559:GLU:CD	1:C:2562:LEU:CG	2.49	0.80
1:B:621:LEU:O	1:B:625:ASN:N	2.14	0.80
1:B:2273:MET:CB	1:B:2371:SER:OG	2.28	0.80
1:A:511:ARG:NE	1:A:570:ASN:OD1	2.14	0.80
1:A:2401:ILE:HD13	1:A:2416:LEU:CD2	2.08	0.80
1:C:2273:MET:CB	1:C:2371:SER:OG	2.28	0.80
1:C:2433:SER:CB	1:C:2593:PHE:CE1	2.59	0.80
1:C:2576:MET:HE3	1:C:2580:ILE:HG13	1.60	0.80
1:B:2713:SER:HA	1:B:2716:LEU:HD21	1.62	0.80
1:D:2200:ARG:CB	1:D:2662:TYR:CE2	2.63	0.80
1:B:2710:THR:CG2	1:B:2711:ASN:HD22	1.94	0.80
1:A:269:ARG:HB3	2:A:2801:JYP:C4	1.94	0.80
1:A:460:LEU:CD2	1:A:465:ILE:HG23	2.06	0.80
1:A:2250:LEU:O	1:A:2250:LEU:HD13	1.82	0.80
1:C:2250:LEU:HD13	1:C:2250:LEU:O	1.82	0.80
1:C:2583:ASN:CB	1:D:2586:PHE:CD1	2.60	0.80
1:D:2239:LYS:HZ3	1:D:2677:ARG:HD2	1.45	0.80
1:D:2707:LYS:HD2	1:D:2711:ASN:ND2	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2707:LYS:O	1:A:2710:THR:HG22	1.80	0.80
1:A:2710:THR:CG2	1:A:2711:ASN:HD22	1.94	0.80
1:C:511:ARG:NH1	1:C:570:ASN:OD1	2.14	0.80
1:B:1404:ASP:O	1:B:1407:VAL:N	2.15	0.80
1:D:2250:LEU:O	1:D:2250:LEU:HD13	1.82	0.80
1:A:511:ARG:NH1	1:A:570:ASN:OD1	2.14	0.80
1:A:2624:LYS:HZ2	1:A:2624:LYS:C	1.85	0.80
1:A:2707:LYS:HD2	1:A:2711:ASN:ND2	1.96	0.80
1:C:621:LEU:O	1:C:625:ASN:N	2.14	0.80
1:C:2714:GLY:O	1:C:2717:SER:OG	1.98	0.80
1:B:108:ARG:HG3	1:B:108:ARG:NH1	1.95	0.80
1:B:2707:LYS:O	1:B:2710:THR:HG22	1.81	0.80
1:B:2714:GLY:O	1:B:2717:SER:OG	1.98	0.80
1:D:264:LEU:O	1:D:265:ARG:NH2	2.15	0.80
1:A:72:PHE:CD1	1:A:93:HIS:CB	2.60	0.80
1:A:2189:TYR:O	1:A:2192:HIS:O	1.99	0.80
1:A:2401:ILE:HG13	1:A:2402:CYS:N	1.97	0.80
1:A:2434:VAL:HG13	1:A:2589:ILE:HD12	1.64	0.80
1:C:486:GLY:CA	1:C:510:MET:SD	2.70	0.80
1:C:2046:GLY:O	1:C:2048:CYS:N	2.13	0.80
1:C:2219:LEU:HD21	1:C:2254:MET:HE1	1.63	0.80
1:C:2434:VAL:HG13	1:C:2589:ILE:HD12	1.64	0.80
1:B:2189:TYR:O	1:B:2192:HIS:O	1.99	0.80
1:B:2434:VAL:HG13	1:B:2589:ILE:HD12	1.64	0.80
1:D:2273:MET:N	1:D:2276:TRP:CD1	2.45	0.80
1:D:2341:ILE:HD11	1:D:2360:PHE:CE2	2.16	0.80
1:D:2713:SER:HA	1:D:2716:LEU:HD21	1.63	0.80
1:A:2433:SER:O	1:A:2434:VAL:CG2	2.30	0.80
1:B:514:ASN:HB3	1:B:517:LYS:H	1.45	0.80
1:D:1979:ASN:O	1:D:1980:HIS:O	1.98	0.80
1:D:2239:LYS:HZ2	1:D:2677:ARG:HE	1.28	0.80
1:A:144:LYS:CB	1:B:1302:HIS:CA	2.60	0.79
1:A:264:LEU:O	1:A:265:ARG:NH2	2.15	0.79
1:A:2583:ASN:HD22	1:B:2586:PHE:CB	1.95	0.79
1:A:2586:PHE:O	1:A:2587:GLY:C	2.17	0.79
1:C:2710:THR:CG2	1:C:2711:ASN:HD22	1.94	0.79
1:B:2343:ARG:O	1:B:2346:PHE:CE2	2.36	0.79
1:B:2401:ILE:HG13	1:B:2402:CYS:N	1.97	0.79
1:B:2637:ASN:HB3	1:B:2640:HIS:CD2	2.15	0.79
1:D:73:TRP:O	1:D:77:LYS:NZ	2.14	0.79
1:D:460:LEU:O	1:D:460:LEU:HD13	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:514:ASN:OD1	1:D:516:LEU:HD11	1.81	0.79
1:D:2710:THR:CG2	1:D:2711:ASN:HD22	1.94	0.79
1:A:73:TRP:O	1:A:77:LYS:NZ	2.14	0.79
1:C:567:TYR:HB2	1:C:571:GLN:CG	2.13	0.79
1:C:2401:ILE:HD13	1:C:2416:LEU:CD2	2.08	0.79
1:B:514:ASN:OD1	1:B:516:LEU:HD11	1.81	0.79
1:B:514:ASN:HD22	1:B:517:LYS:CD	1.93	0.79
1:D:69:GLN:H	1:D:100:LYS:NZ	1.76	0.79
1:D:2273:MET:CB	1:D:2371:SER:OG	2.28	0.79
1:C:602:ASN:C	1:C:606:LEU:H	1.85	0.79
1:B:74:LYS:HA	1:B:74:LYS:HZ1	1.47	0.79
1:B:264:LEU:O	1:B:265:ARG:NH2	2.15	0.79
1:A:453:LEU:HA	1:A:521:LYS:HZ2	1.43	0.79
1:C:460:LEU:O	1:C:460:LEU:HD13	1.82	0.79
1:C:2341:ILE:HD11	1:C:2360:PHE:CE2	2.16	0.79
1:A:2271:ARG:HH11	1:A:2272:ASN:CG	1.75	0.79
1:C:264:LEU:O	1:C:265:ARG:NH2	2.15	0.79
1:C:571:GLN:HB3	1:C:574:ILE:HD11	1.63	0.79
1:C:2666:MET:HB3	1:C:2674:TRP:HE1	1.48	0.79
1:C:2710:THR:CB	1:B:2707:LYS:HZ3	1.64	0.79
1:B:621:LEU:O	1:B:625:ASN:CA	2.31	0.79
1:D:567:TYR:HB2	1:D:571:GLN:CG	2.13	0.79
1:D:621:LEU:O	1:D:625:ASN:N	2.14	0.79
1:D:2433:SER:O	1:D:2434:VAL:CG2	2.30	0.79
1:A:270:GLN:CD	1:A:271:SER:N	2.36	0.79
1:A:567:TYR:HB2	1:A:571:GLN:CG	2.13	0.79
1:A:2213:PRO:HG3	1:A:2647:LEU:CA	2.06	0.79
1:A:2343:ARG:O	1:A:2346:PHE:CE2	2.36	0.79
1:A:2432:LYS:C	1:A:2434:VAL:H	1.86	0.79
1:A:2434:VAL:HG21	1:D:2584:LEU:CD1	2.06	0.79
1:C:2710:THR:CG2	1:B:2707:LYS:NZ	2.46	0.79
1:C:2713:SER:HA	1:C:2716:LEU:HD21	1.63	0.79
1:B:2341:ILE:HD11	1:B:2360:PHE:CE2	2.16	0.79
1:D:621:LEU:O	1:D:625:ASN:CA	2.31	0.79
1:D:2243:PHE:CE2	1:D:2638:MET:CB	2.53	0.79
1:A:69:GLN:NE2	1:A:100:LYS:CD	2.24	0.79
1:A:2559:GLU:CD	1:A:2562:LEU:CG	2.49	0.79
1:A:2736:LEU:HD23	1:A:2736:LEU:O	1.83	0.79
1:C:269:ARG:HB3	2:C:2801:JYP:C4	1.94	0.79
1:C:460:LEU:CD2	1:C:465:ILE:HG23	2.06	0.79
1:C:2345:ILE:HD11	1:C:2356:LEU:CG	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2412:PHE:C	1:C:2414:SER:N	2.36	0.79
1:C:2583:ASN:ND2	1:D:2586:PHE:CA	2.45	0.79
1:B:2433:SER:O	1:B:2434:VAL:CG2	2.31	0.79
1:B:2666:MET:HB3	1:B:2674:TRP:HE1	1.48	0.79
1:D:514:ASN:OD1	1:D:516:LEU:CD1	2.24	0.79
1:A:2285:VAL:CG1	1:A:2286:LEU:N	2.45	0.79
1:A:2428:LEU:HA	1:A:2431:ILE:HD12	1.65	0.79
1:B:299:TRP:CZ2	1:B:380:SER:HB3	2.18	0.79
1:B:460:LEU:O	1:B:460:LEU:HD13	1.82	0.79
1:B:2559:GLU:CD	1:B:2562:LEU:CG	2.49	0.79
1:D:2285:VAL:CG1	1:D:2286:LEU:N	2.45	0.79
1:D:2666:MET:HB3	1:D:2674:TRP:HE1	1.48	0.79
1:A:514:ASN:HD22	1:A:517:LYS:CD	1.93	0.79
1:C:514:ASN:HB3	1:C:517:LYS:H	1.45	0.79
1:C:760:ASP:O	1:C:761:VAL:C	2.18	0.79
1:C:2189:TYR:O	1:C:2192:HIS:O	1.99	0.79
1:B:2239:LYS:HZ3	1:B:2677:ARG:HD2	1.46	0.79
1:B:2250:LEU:O	1:B:2250:LEU:HD13	1.82	0.79
1:B:2432:LYS:C	1:B:2434:VAL:H	1.87	0.79
1:B:2624:LYS:HZ2	1:B:2624:LYS:C	1.86	0.79
1:D:602:ASN:C	1:D:606:LEU:H	1.85	0.79
1:D:2401:ILE:HD13	1:D:2416:LEU:CD2	2.08	0.79
1:D:2432:LYS:O	1:D:2434:VAL:N	2.16	0.79
1:A:602:ASN:C	1:A:606:LEU:H	1.85	0.79
1:C:584:GLN:HG2	1:C:585:ILE:HG22	1.65	0.79
1:C:2210:PHE:HE2	1:C:2647:LEU:CD2	1.85	0.79
1:B:270:GLN:CD	1:B:271:SER:N	2.36	0.79
1:B:2432:LYS:O	1:B:2434:VAL:N	2.16	0.79
1:D:456:ILE:HB	1:D:521:LYS:HZ2	1.48	0.79
1:D:486:GLY:CA	1:D:510:MET:SD	2.70	0.79
1:D:2062:GLY:C	1:D:2064:ASP:H	1.83	0.79
1:D:2210:PHE:HE2	1:D:2647:LEU:CD2	1.85	0.79
1:A:839:PHE:O	1:A:843:TYR:N	2.15	0.78
1:A:2576:MET:HA	1:A:2576:MET:HE3	1.64	0.78
1:C:621:LEU:O	1:C:625:ASN:CA	2.31	0.78
1:C:2345:ILE:HG23	1:C:2353:THR:HG1	1.45	0.78
1:B:571:GLN:HB3	1:B:574:ILE:HD11	1.63	0.78
1:B:602:ASN:C	1:B:606:LEU:H	1.85	0.78
1:D:517:LYS:HA	1:D:517:LYS:NZ	1.98	0.78
1:A:621:LEU:O	1:A:625:ASN:CA	2.31	0.78
1:C:2433:SER:O	1:C:2434:VAL:CG2	2.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2345:ILE:HD11	1:B:2356:LEU:CG	2.12	0.78
1:D:514:ASN:HB3	1:D:517:LYS:H	1.45	0.78
1:D:1404:ASP:O	1:D:1407:VAL:N	2.15	0.78
1:A:2720:LYS:HE2	1:A:2720:LYS:HA	1.66	0.78
1:B:2210:PHE:HE2	1:B:2647:LEU:CD2	1.85	0.78
1:B:2285:VAL:CG1	1:B:2286:LEU:N	2.45	0.78
1:B:2622:ASP:HB3	1:B:2628:PHE:CG	2.18	0.78
1:D:270:GLN:CD	1:D:271:SER:N	2.36	0.78
1:D:299:TRP:CZ2	1:D:380:SER:HB3	2.18	0.78
1:A:2345:ILE:HD11	1:A:2356:LEU:CG	2.12	0.78
1:A:2370:MET:HA	1:A:2370:MET:HE3	1.63	0.78
1:A:2432:LYS:O	1:A:2434:VAL:N	2.16	0.78
1:A:2677:ARG:NH2	1:B:2623:ASN:ND2	2.31	0.78
1:C:2710:THR:CG2	1:B:2707:LYS:HZ3	1.96	0.78
1:B:517:LYS:NZ	1:B:517:LYS:HA	1.99	0.78
1:B:2412:PHE:C	1:B:2414:SER:N	2.36	0.78
1:D:2345:ILE:HD11	1:D:2356:LEU:CG	2.12	0.78
1:D:2720:LYS:HE2	1:D:2720:LYS:HA	1.65	0.78
1:A:2343:ARG:CA	1:A:2346:PHE:CD2	2.66	0.78
1:A:2589:ILE:CG2	1:D:2583:ASN:OD1	2.26	0.78
1:C:456:ILE:HB	1:C:521:LYS:NZ	1.99	0.78
1:C:2432:LYS:O	1:C:2434:VAL:N	2.16	0.78
1:C:2736:LEU:HD23	1:C:2736:LEU:O	1.83	0.78
1:B:2428:LEU:HA	1:B:2431:ILE:HD12	1.65	0.78
1:B:2736:LEU:O	1:B:2736:LEU:HD23	1.83	0.78
1:D:571:GLN:HB3	1:D:574:ILE:HD11	1.63	0.78
1:D:2401:ILE:HG13	1:D:2402:CYS:N	1.97	0.78
1:D:2428:LEU:O	1:D:2428:LEU:HD22	1.83	0.78
1:D:2432:LYS:C	1:D:2434:VAL:H	1.86	0.78
1:D:460:LEU:CD2	1:D:465:ILE:HG23	2.06	0.78
1:D:2343:ARG:CA	1:D:2346:PHE:CD2	2.66	0.78
1:D:2345:ILE:HG23	1:D:2348:VAL:HG11	1.66	0.78
1:D:2428:LEU:HA	1:D:2431:ILE:HD12	1.65	0.78
1:D:2736:LEU:HD23	1:D:2736:LEU:O	1.83	0.78
1:A:571:GLN:HB3	1:A:574:ILE:HD11	1.63	0.78
1:A:1633:PRO:O	1:A:1637:PHE:N	2.17	0.78
1:A:2412:PHE:C	1:A:2414:SER:N	2.36	0.78
1:C:299:TRP:CZ2	1:C:380:SER:HB3	2.18	0.78
1:C:554:ARG:HG2	1:C:554:ARG:NH1	1.96	0.78
1:C:2401:ILE:HG13	1:C:2402:CYS:N	1.97	0.78
1:C:2428:LEU:O	1:C:2428:LEU:HD22	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2624:LYS:HZ2	1:C:2624:LYS:C	1.86	0.78
1:B:567:TYR:HB2	1:B:571:GLN:CG	2.13	0.78
1:D:456:ILE:HB	1:D:521:LYS:NZ	1.99	0.78
1:D:2624:LYS:HZ3	1:D:2624:LYS:HB2	1.49	0.78
1:A:514:ASN:HB3	1:A:517:LYS:H	1.45	0.78
1:A:517:LYS:HA	1:A:517:LYS:NZ	1.99	0.78
1:A:2428:LEU:O	1:A:2428:LEU:HD22	1.83	0.78
1:C:2239:LYS:HZ3	1:C:2677:ARG:HD2	1.45	0.78
1:B:522:LEU:O	1:B:522:LEU:HD13	1.84	0.78
1:D:2434:VAL:HG13	1:D:2589:ILE:HD12	1.64	0.78
1:A:299:TRP:CZ2	1:A:380:SER:HB3	2.18	0.78
1:C:89:LEU:O	1:C:93:HIS:ND1	2.17	0.78
1:C:2213:PRO:HG3	1:C:2647:LEU:CA	2.06	0.78
1:C:2428:LEU:HA	1:C:2431:ILE:HD12	1.65	0.78
1:D:1633:PRO:O	1:D:1637:PHE:N	2.17	0.78
1:D:2626:VAL:HG12	1:D:2627:THR:CA	2.14	0.78
1:A:2288:ASN:CB	1:A:2413:TYR:CB	2.56	0.78
1:A:2345:ILE:HG23	1:A:2348:VAL:HG11	1.66	0.78
1:A:2622:ASP:HB3	1:A:2628:PHE:CG	2.18	0.78
1:C:876:PHE:O	1:C:880:ASN:N	2.16	0.78
1:C:2432:LYS:C	1:C:2434:VAL:H	1.86	0.78
1:D:522:LEU:O	1:D:522:LEU:HD13	1.84	0.78
1:D:2239:LYS:NZ	1:D:2677:ARG:HE	1.82	0.78
1:A:460:LEU:O	1:A:460:LEU:HD13	1.82	0.77
1:A:876:PHE:O	1:A:880:ASN:N	2.16	0.77
1:C:270:GLN:CD	1:C:271:SER:N	2.36	0.77
1:C:514:ASN:OD1	1:C:516:LEU:HD11	1.81	0.77
1:C:517:LYS:HA	1:C:517:LYS:NZ	1.99	0.77
1:C:2343:ARG:CA	1:C:2346:PHE:CD2	2.66	0.77
1:C:2365:LYS:NZ	1:C:2368:PHE:CE2	2.52	0.77
1:C:2622:ASP:HB3	1:C:2628:PHE:CG	2.18	0.77
1:B:89:LEU:O	1:B:93:HIS:ND1	2.17	0.77
1:B:514:ASN:OD1	1:B:516:LEU:CD1	2.23	0.77
1:B:2428:LEU:O	1:B:2428:LEU:HD22	1.83	0.77
1:B:2720:LYS:HE2	1:B:2720:LYS:HA	1.65	0.77
1:D:89:LEU:O	1:D:93:HIS:ND1	2.17	0.77
1:C:2586:PHE:O	1:C:2587:GLY:C	2.17	0.77
1:C:2735:LEU:O	1:C:2735:LEU:HD22	1.85	0.77
1:B:584:GLN:HG2	1:B:585:ILE:HG22	1.65	0.77
1:B:876:PHE:O	1:B:880:ASN:N	2.16	0.77
1:D:2622:ASP:HB3	1:D:2628:PHE:CG	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2285:VAL:CG1	1:C:2286:LEU:N	2.45	0.77
1:C:2348:VAL:HG23	1:C:2350:LEU:H	1.49	0.77
1:B:486:GLY:CA	1:B:510:MET:SD	2.70	0.77
1:B:2278:SER:O	1:B:2281:PHE:CD2	2.13	0.77
1:B:2343:ARG:CA	1:B:2346:PHE:CD2	2.66	0.77
1:B:2735:LEU:O	1:B:2735:LEU:HD22	1.85	0.77
1:D:2735:LEU:O	1:D:2735:LEU:HD22	1.85	0.77
1:A:89:LEU:O	1:A:93:HIS:ND1	2.17	0.77
1:A:456:ILE:HB	1:A:521:LYS:NZ	1.99	0.77
1:C:2710:THR:HG23	1:C:2711:ASN:ND2	2.00	0.77
1:B:554:ARG:HG2	1:B:554:ARG:NH1	1.96	0.77
1:B:760:ASP:O	1:B:761:VAL:C	2.18	0.77
1:D:876:PHE:O	1:D:880:ASN:N	2.16	0.77
1:A:2062:GLY:C	1:A:2064:ASP:H	1.83	0.77
1:A:2288:ASN:OD1	1:A:2289:LEU:N	2.18	0.77
1:A:2666:MET:HB3	1:A:2674:TRP:HE1	1.48	0.77
1:C:2699:GLN:HG3	1:B:2700:GLU:OE1	1.85	0.77
1:C:2720:LYS:HA	1:C:2720:LYS:HE2	1.66	0.77
1:B:2365:LYS:NZ	1:B:2368:PHE:CE2	2.52	0.77
1:B:2586:PHE:O	1:B:2587:GLY:C	2.17	0.77
1:D:847:VAL:O	1:D:851:ARG:N	2.18	0.77
1:D:2343:ARG:O	1:D:2346:PHE:CE2	2.36	0.77
1:D:2348:VAL:HG23	1:D:2350:LEU:H	1.49	0.77
1:A:486:GLY:CA	1:A:510:MET:SD	2.70	0.77
1:A:760:ASP:O	1:A:761:VAL:C	2.18	0.77
1:A:2365:LYS:NZ	1:A:2368:PHE:CE2	2.52	0.77
1:A:2735:LEU:O	1:A:2735:LEU:HD22	1.85	0.77
1:C:839:PHE:O	1:C:843:TYR:N	2.15	0.77
1:C:2288:ASN:OD1	1:C:2289:LEU:N	2.18	0.77
1:B:2351:GLN:N	1:B:2352:PRO:HD2	2.00	0.77
1:B:2710:THR:HG23	1:B:2711:ASN:ND2	2.00	0.77
1:A:720:LYS:CA	1:A:726:ASP:CA	2.63	0.77
1:A:2239:LYS:NZ	1:A:2677:ARG:HE	1.82	0.77
1:C:720:LYS:CA	1:C:726:ASP:CA	2.63	0.77
1:B:1633:PRO:O	1:B:1637:PHE:N	2.17	0.77
1:B:2648:VAL:HG23	1:B:2649:LYS:HE2	1.66	0.77
1:A:453:LEU:CA	1:A:521:LYS:HZ3	1.97	0.77
1:A:2239:LYS:HZ2	1:A:2677:ARG:HE	1.33	0.77
1:C:2345:ILE:HG23	1:C:2348:VAL:HG11	1.66	0.77
1:B:2288:ASN:OD1	1:B:2289:LEU:N	2.18	0.77
1:D:69:GLN:NE2	1:D:100:LYS:CD	2.24	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2412:PHE:C	1:D:2414:SER:N	2.36	0.77
1:A:270:GLN:H	2:A:2801:JYP:C4	1.96	0.77
1:C:72:PHE:CD1	1:C:93:HIS:CB	2.60	0.77
1:C:2239:LYS:NZ	1:C:2677:ARG:HE	1.82	0.77
1:D:2365:LYS:NZ	1:D:2368:PHE:CE2	2.52	0.77
1:A:847:VAL:O	1:A:851:ARG:N	2.18	0.77
1:A:2715:GLN:HE22	1:B:2713:SER:HB2	0.96	0.77
1:C:2626:VAL:HG12	1:C:2627:THR:CA	2.14	0.77
1:C:2648:VAL:HG23	1:C:2649:LYS:HE2	1.66	0.77
1:B:456:ILE:HB	1:B:521:LYS:NZ	1.99	0.77
1:B:2626:VAL:HG12	1:B:2627:THR:CA	2.14	0.77
1:D:554:ARG:HG2	1:D:554:ARG:NH1	1.96	0.77
1:D:2351:GLN:N	1:D:2352:PRO:HD2	2.00	0.77
1:D:2423:ARG:O	1:D:2423:ARG:HD2	1.85	0.77
1:D:2710:THR:HG23	1:D:2711:ASN:ND2	2.00	0.77
1:A:514:ASN:OD1	1:A:516:LEU:CD1	2.24	0.76
1:A:583:LYS:O	1:A:583:LYS:HD2	1.86	0.76
1:A:1404:ASP:O	1:A:1407:VAL:N	2.15	0.76
1:C:768:MET:CA	1:C:776:ASP:N	2.48	0.76
1:B:847:VAL:O	1:B:851:ARG:N	2.18	0.76
1:A:2626:VAL:HG12	1:A:2627:THR:CA	2.14	0.76
1:C:847:VAL:O	1:C:851:ARG:N	2.18	0.76
1:C:2713:SER:C	1:C:2716:LEU:CD2	2.54	0.76
1:B:839:PHE:O	1:B:843:TYR:N	2.15	0.76
1:A:584:GLN:HG2	1:A:585:ILE:HG22	1.65	0.76
1:A:2707:LYS:HE2	1:B:2706:MET:C	2.05	0.76
2:A:2801:JYP:C8	2:A:2801:JYP:O16	2.34	0.76
1:C:522:LEU:O	1:C:522:LEU:HD13	1.84	0.76
1:C:583:LYS:O	1:C:583:LYS:HD2	1.86	0.76
1:C:1404:ASP:O	1:C:1407:VAL:N	2.15	0.76
1:D:2288:ASN:OD1	1:D:2289:LEU:N	2.18	0.76
1:A:514:ASN:OD1	1:A:516:LEU:HD11	1.81	0.76
1:A:768:MET:CA	1:A:776:ASP:N	2.48	0.76
1:A:2351:GLN:N	1:A:2352:PRO:HD2	2.00	0.76
1:A:2727:ARG:NE	1:A:2727:ARG:HA	2.01	0.76
1:D:515:ILE:O	1:D:515:ILE:HD12	1.85	0.76
1:D:720:LYS:CA	1:D:726:ASP:CA	2.63	0.76
1:A:44:GLY:H	1:A:50:PRO:HG3	1.51	0.76
1:A:2210:PHE:HE2	1:A:2647:LEU:CD2	1.85	0.76
1:A:2677:ARG:CD	1:B:2623:ASN:OD1	2.28	0.76
1:A:2710:THR:HG23	1:A:2711:ASN:ND2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1633:PRO:O	1:C:1637:PHE:N	2.17	0.76
1:B:237:GLY:O	1:B:283:GLU:CD	2.24	0.76
1:B:453:LEU:CA	1:B:521:LYS:HZ3	1.97	0.76
1:D:72:PHE:O	1:D:75:ALA:HB3	1.86	0.76
1:D:88:LEU:CD1	1:D:88:LEU:H	1.98	0.76
1:D:584:GLN:HG2	1:D:585:ILE:HG22	1.65	0.76
1:D:768:MET:CA	1:D:776:ASP:N	2.48	0.76
1:D:2713:SER:C	1:D:2716:LEU:CD2	2.54	0.76
1:A:522:LEU:O	1:A:522:LEU:HD13	1.84	0.76
1:A:2648:VAL:HG23	1:A:2649:LYS:HE2	1.66	0.76
1:C:237:GLY:O	1:C:283:GLU:CD	2.24	0.76
1:C:515:ILE:HD12	1:C:515:ILE:O	1.85	0.76
1:B:515:ILE:HD12	1:B:515:ILE:O	1.85	0.76
1:B:583:LYS:HD2	1:B:583:LYS:O	1.85	0.76
1:B:2727:ARG:HA	1:B:2727:ARG:NE	2.01	0.76
1:A:62:PRO:HB3	1:A:110:LEU:HD13	1.67	0.76
1:A:554:ARG:HG2	1:A:554:ARG:NH1	1.96	0.76
1:A:2623:ASN:ND2	1:D:2677:ARG:NH2	2.33	0.76
1:C:69:GLN:NE2	1:C:100:LYS:CD	2.24	0.76
1:C:270:GLN:HE21	1:C:271:SER:H	1.32	0.76
1:C:760:ASP:O	1:C:763:LEU:N	2.19	0.76
1:C:2715:GLN:NE2	1:D:2713:SER:HB3	2.00	0.76
1:B:2348:VAL:HG23	1:B:2350:LEU:H	1.49	0.76
2:D:2801:JYP:C8	2:D:2801:JYP:O16	2.33	0.76
1:A:2365:LYS:NZ	1:A:2368:PHE:HD2	1.83	0.76
1:A:2713:SER:C	1:A:2716:LEU:CD2	2.54	0.76
1:C:2423:ARG:O	1:C:2423:ARG:HD2	1.85	0.76
1:B:88:LEU:H	1:B:88:LEU:CD1	1.98	0.76
1:B:720:LYS:CA	1:B:726:ASP:CA	2.63	0.76
1:D:453:LEU:CA	1:D:521:LYS:HZ3	1.99	0.76
1:D:2624:LYS:HZ2	1:D:2624:LYS:C	1.89	0.76
1:A:760:ASP:O	1:A:763:LEU:N	2.19	0.76
1:C:2737:GLY:O	1:D:393:LEU:HD21	1.85	0.76
1:D:2618:ARG:HB3	1:D:2618:ARG:CZ	2.16	0.76
1:A:564:GLN:HE22	1:A:578:PHE:HD2	1.33	0.76
1:A:2348:VAL:HG23	1:A:2350:LEU:H	1.49	0.76
1:C:2351:GLN:N	1:C:2352:PRO:HD2	2.00	0.76
1:C:2696:ARG:HH12	1:B:2696:ARG:NE	1.75	0.76
1:B:2239:LYS:NZ	1:B:2677:ARG:HE	1.82	0.76
1:B:2433:SER:CB	1:B:2593:PHE:CE1	2.59	0.76
1:D:2219:LEU:HD21	1:D:2254:MET:HE2	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:GLY:HA3	1:A:510:MET:HE3	1.68	0.75
1:A:504:ARG:HA	1:A:507:GLN:HG2	1.68	0.75
1:A:2586:PHE:CA	1:D:2583:ASN:ND2	2.49	0.75
1:C:88:LEU:CD1	1:C:88:LEU:H	1.98	0.75
1:C:2343:ARG:O	1:C:2346:PHE:CE2	2.36	0.75
1:C:2586:PHE:CZ	1:B:2583:ASN:HB2	2.20	0.75
1:C:2622:ASP:CG	1:C:2628:PHE:CG	2.59	0.75
1:B:44:GLY:H	1:B:50:PRO:HG3	1.50	0.75
1:B:2365:LYS:NZ	1:B:2368:PHE:HD2	1.83	0.75
1:B:2423:ARG:O	1:B:2423:ARG:HD2	1.85	0.75
1:D:237:GLY:O	1:D:283:GLU:OE2	2.04	0.75
1:D:564:GLN:NE2	1:D:578:PHE:HD2	1.84	0.75
1:D:839:PHE:O	1:D:843:TYR:N	2.15	0.75
1:A:237:GLY:O	1:A:283:GLU:OE2	2.04	0.75
1:C:514:ASN:HD22	1:C:517:LYS:CD	1.93	0.75
1:C:564:GLN:NE2	1:C:578:PHE:HD2	1.85	0.75
1:C:2365:LYS:NZ	1:C:2368:PHE:HD2	1.83	0.75
1:C:2727:ARG:NE	1:C:2727:ARG:HA	2.01	0.75
1:B:2345:ILE:HG23	1:B:2348:VAL:HG11	1.66	0.75
2:B:2801:JYP:O16	2:B:2801:JYP:C8	2.34	0.75
1:D:2648:VAL:HG23	1:D:2649:LYS:HE2	1.66	0.75
1:A:1248:ASN:CA	1:A:1252:GLN:H	1.99	0.75
1:A:2423:ARG:O	1:A:2423:ARG:HD2	1.85	0.75
1:C:44:GLY:H	1:C:50:PRO:HG3	1.51	0.75
1:B:72:PHE:O	1:B:75:ALA:HB3	1.86	0.75
1:B:564:GLN:HE22	1:B:578:PHE:HD2	1.33	0.75
1:B:2622:ASP:CG	1:B:2628:PHE:CG	2.59	0.75
1:D:583:LYS:HD2	1:D:583:LYS:O	1.86	0.75
1:A:88:LEU:CD1	1:A:88:LEU:H	1.98	0.75
1:A:515:ILE:HD12	1:A:515:ILE:O	1.85	0.75
1:A:2622:ASP:CG	1:A:2628:PHE:CG	2.59	0.75
1:C:237:GLY:O	1:C:283:GLU:OE2	2.04	0.75
1:C:1209:GLY:O	1:C:1259:ILE:C	2.25	0.75
1:B:760:ASP:O	1:B:763:LEU:N	2.19	0.75
1:D:504:ARG:HA	1:D:507:GLN:HG2	1.68	0.75
1:A:237:GLY:O	1:A:283:GLU:CD	2.24	0.75
1:B:237:GLY:O	1:B:283:GLU:OE2	2.04	0.75
1:D:486:GLY:HA3	1:D:510:MET:HE3	1.69	0.75
1:D:2178:GLY:O	1:D:2186:LEU:CD2	2.35	0.75
1:D:2727:ARG:NE	1:D:2727:ARG:HA	2.01	0.75
1:A:1209:GLY:O	1:A:1259:ILE:C	2.24	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2801:JYP:O16	2:C:2801:JYP:C8	2.34	0.75
1:B:504:ARG:HA	1:B:507:GLN:HG2	1.68	0.75
1:B:2618:ARG:HB3	1:B:2618:ARG:CZ	2.16	0.75
1:D:62:PRO:HB3	1:D:110:LEU:HD13	1.67	0.75
1:D:237:GLY:O	1:D:283:GLU:CD	2.24	0.75
1:A:2388:LEU:CD2	1:A:2388:LEU:H	1.93	0.75
1:D:567:TYR:C	1:D:571:GLN:NE2	2.40	0.75
1:D:2560:GLU:HG2	1:D:2563:PHE:CE2	2.16	0.75
1:A:2239:LYS:HZ2	1:A:2677:ARG:NE	1.83	0.75
1:C:62:PRO:HB3	1:C:110:LEU:HD13	1.67	0.75
1:B:1226:GLU:O	1:B:1231:GLN:CA	2.35	0.75
1:D:270:GLN:HE21	1:D:271:SER:H	1.32	0.75
1:D:564:GLN:HE22	1:D:578:PHE:HD2	1.33	0.75
1:C:1248:ASN:CA	1:C:1252:GLN:H	1.99	0.74
1:B:768:MET:CA	1:B:776:ASP:N	2.48	0.74
1:B:2178:GLY:O	1:B:2186:LEU:CD2	2.35	0.74
1:D:270:GLN:H	2:D:2801:JYP:C4	1.96	0.74
1:D:602:ASN:O	1:D:603:ARG:C	2.22	0.74
1:D:2559:GLU:CD	1:D:2562:LEU:HG	2.07	0.74
1:A:567:TYR:C	1:A:571:GLN:NE2	2.40	0.74
1:A:2576:MET:HE1	1:A:2580:ILE:CG1	2.15	0.74
1:C:2589:ILE:CG2	1:B:2583:ASN:OD1	2.33	0.74
1:B:602:ASN:O	1:B:603:ARG:C	2.22	0.74
1:D:108:ARG:HG3	1:D:108:ARG:NH1	1.95	0.74
1:C:72:PHE:O	1:C:75:ALA:HB3	1.86	0.74
1:C:567:TYR:C	1:C:571:GLN:NE2	2.40	0.74
1:C:1226:GLU:O	1:C:1231:GLN:CA	2.35	0.74
1:C:2178:GLY:O	1:C:2186:LEU:CD2	2.35	0.74
1:B:1248:ASN:CA	1:B:1252:GLN:H	1.99	0.74
1:B:2368:PHE:CE2	1:B:2395:HIS:ND1	2.55	0.74
1:A:2285:VAL:O	1:A:2289:LEU:CD1	2.36	0.74
1:A:2368:PHE:CE2	1:A:2395:HIS:ND1	2.55	0.74
1:B:62:PRO:HB3	1:B:110:LEU:HD13	1.67	0.74
1:B:567:TYR:C	1:B:571:GLN:NE2	2.40	0.74
1:B:1634:GLU:O	1:B:1637:PHE:O	2.06	0.74
1:D:44:GLY:H	1:D:50:PRO:HG3	1.51	0.74
1:D:1634:GLU:O	1:D:1637:PHE:O	2.06	0.74
1:D:2239:LYS:NZ	1:D:2677:ARG:NE	2.36	0.74
1:D:2277:SER:O	1:D:2281:PHE:HD2	1.71	0.74
1:D:2559:GLU:OE1	1:D:2562:LEU:HD23	1.70	0.74
1:D:2622:ASP:CG	1:D:2628:PHE:CG	2.59	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:72:PHE:O	1:A:75:ALA:HB3	1.86	0.74
1:A:2618:ARG:HB3	1:A:2618:ARG:CZ	2.16	0.74
1:A:2700:GLU:OE1	1:B:2699:GLN:HG3	1.87	0.74
1:C:1634:GLU:O	1:C:1637:PHE:O	2.06	0.74
1:B:564:GLN:NE2	1:B:578:PHE:HD2	1.84	0.74
1:B:2243:PHE:HE2	1:B:2638:MET:HB3	1.50	0.74
1:D:1248:ASN:CA	1:D:1252:GLN:H	1.99	0.74
1:C:504:ARG:HA	1:C:507:GLN:HG2	1.68	0.74
1:B:520:PHE:CD1	1:B:523:LEU:CD1	2.70	0.74
1:A:1226:GLU:O	1:A:1231:GLN:CA	2.35	0.74
1:B:574:ILE:CA	1:B:577:GLN:OE1	2.32	0.74
1:B:1209:GLY:O	1:B:1259:ILE:C	2.24	0.74
1:D:760:ASP:O	1:D:763:LEU:N	2.19	0.74
1:D:2285:VAL:O	1:D:2289:LEU:CD1	2.36	0.74
1:D:2368:PHE:CE2	1:D:2395:HIS:ND1	2.55	0.74
1:A:1634:GLU:O	1:A:1637:PHE:O	2.06	0.74
1:A:2277:SER:O	1:A:2281:PHE:HD2	1.70	0.74
1:C:2586:PHE:CA	1:B:2583:ASN:ND2	2.50	0.74
1:C:2277:SER:O	1:C:2281:PHE:HD2	1.71	0.74
1:C:2619:ASP:OD1	1:B:2236:GLN:HB3	1.87	0.74
1:B:460:LEU:HD23	1:B:465:ILE:CG2	2.09	0.74
1:B:2219:LEU:HD21	1:B:2254:MET:HE1	1.67	0.74
1:D:1209:GLY:O	1:D:1259:ILE:C	2.24	0.74
1:D:2365:LYS:CE	1:D:2398:TYR:HB3	2.18	0.74
1:A:2009:CYS:O	1:A:2013:SER:CA	2.36	0.74
1:A:2285:VAL:HG23	1:A:2417:LEU:HD13	1.69	0.74
1:C:2365:LYS:CE	1:C:2398:TYR:HB3	2.18	0.74
1:C:2696:ARG:HH11	1:B:2696:ARG:NE	1.86	0.74
1:B:269:ARG:HB3	2:B:2801:JYP:C4	1.94	0.74
1:B:2277:SER:O	1:B:2281:PHE:HD2	1.71	0.74
1:B:2285:VAL:O	1:B:2289:LEU:CD1	2.36	0.74
1:D:1226:GLU:O	1:D:1231:GLN:CA	2.35	0.74
1:C:74:LYS:HA	1:C:74:LYS:HZ1	1.51	0.73
1:C:2239:LYS:HZ2	1:C:2677:ARG:NE	1.86	0.73
1:C:2566:ARG:HB3	1:C:2566:ARG:CZ	2.18	0.73
1:B:2009:CYS:O	1:B:2013:SER:CA	2.36	0.73
1:B:2213:PRO:HG3	1:B:2647:LEU:CA	2.06	0.73
1:B:2559:GLU:CD	1:B:2562:LEU:HG	2.07	0.73
1:B:2566:ARG:HB3	1:B:2566:ARG:CZ	2.18	0.73
1:A:520:PHE:CD1	1:A:523:LEU:CD1	2.70	0.73
1:A:564:GLN:NE2	1:A:578:PHE:HD2	1.85	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:ARG:O	2:A:2801:JYP:O14	2.07	0.73
1:A:2178:GLY:O	1:A:2186:LEU:CD2	2.35	0.73
1:C:2200:ARG:HD2	1:C:2662:TYR:CD1	2.24	0.73
1:B:64:ASN:ND2	1:B:106:GLU:OE1	2.22	0.73
1:B:514:ASN:O	1:B:517:LYS:N	2.21	0.73
1:D:514:ASN:O	1:D:517:LYS:N	2.21	0.73
1:C:819:TYR:H	1:C:877:GLY:HA3	1.53	0.73
1:B:2239:LYS:NZ	1:B:2677:ARG:NE	2.36	0.73
1:D:481:VAL:HG11	1:D:559:VAL:HG11	1.70	0.73
1:A:481:VAL:HG11	1:A:559:VAL:HG11	1.70	0.73
1:A:2566:ARG:HB3	1:A:2566:ARG:NH1	2.04	0.73
1:C:453:LEU:C	1:C:521:LYS:HZ2	1.91	0.73
1:C:2239:LYS:NZ	1:C:2677:ARG:NE	2.36	0.73
1:B:2388:LEU:CD2	1:B:2388:LEU:H	1.93	0.73
1:D:2576:MET:HE2	1:D:2580:ILE:CG1	2.18	0.73
1:A:817:ASP:CA	1:A:878:PHE:CA	2.67	0.73
1:A:2365:LYS:CE	1:A:2398:TYR:HB3	2.18	0.73
1:C:2368:PHE:CE2	1:C:2395:HIS:ND1	2.55	0.73
1:B:270:GLN:HE21	1:B:271:SER:H	1.32	0.73
1:D:2200:ARG:HD2	1:D:2662:TYR:CD1	2.24	0.73
1:A:64:ASN:ND2	1:A:106:GLU:OE1	2.22	0.73
1:A:514:ASN:O	1:A:517:LYS:N	2.21	0.73
1:C:85:ASP:OD1	1:C:85:ASP:N	2.16	0.73
1:C:2285:VAL:O	1:C:2289:LEU:CD1	2.36	0.73
1:C:2345:ILE:O	1:C:2348:VAL:HG12	1.86	0.73
1:C:2425:GLU:HA	1:C:2428:LEU:HB3	1.71	0.73
1:C:2559:GLU:CD	1:C:2562:LEU:HG	2.07	0.73
1:B:817:ASP:CA	1:B:878:PHE:CA	2.67	0.73
1:B:2425:GLU:HA	1:B:2428:LEU:HB3	1.71	0.73
1:D:547:ALA:HB3	1:D:548:PRO:HD2	1.68	0.73
1:D:2372:PHE:CE2	1:D:2391:GLU:HG3	2.24	0.73
1:C:2559:GLU:OE1	1:C:2562:LEU:HD23	1.70	0.73
1:B:2566:ARG:HB3	1:B:2566:ARG:NH1	2.04	0.73
1:D:64:ASN:ND2	1:D:106:GLU:OE1	2.22	0.73
1:A:2425:GLU:HA	1:A:2428:LEU:HB3	1.71	0.73
1:A:2566:ARG:HB3	1:A:2566:ARG:CZ	2.18	0.73
1:C:486:GLY:HA3	1:C:510:MET:HE3	1.70	0.73
1:C:509:LEU:HA	1:C:512:GLU:HB3	1.71	0.73
1:C:568:ARG:O	2:C:2801:JYP:O14	2.07	0.73
1:C:817:ASP:CA	1:C:878:PHE:CA	2.67	0.73
1:C:2566:ARG:HB3	1:C:2566:ARG:NH1	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1619:VAL:C	1:B:1621:ALA:N	2.41	0.73
1:B:2200:ARG:HD2	1:B:2662:TYR:CD1	2.24	0.73
1:B:2713:SER:C	1:B:2716:LEU:CD2	2.54	0.73
1:D:72:PHE:CD1	1:D:93:HIS:CB	2.60	0.73
1:D:509:LEU:HA	1:D:512:GLU:HB3	1.71	0.73
1:D:517:LYS:HA	1:D:517:LYS:HZ2	1.54	0.73
1:D:819:TYR:H	1:D:877:GLY:HA3	1.53	0.73
1:D:2009:CYS:O	1:D:2013:SER:CA	2.36	0.73
1:D:2365:LYS:NZ	1:D:2368:PHE:HD2	1.83	0.73
1:A:78:PRO:HA	1:A:81:ASN:O	1.89	0.73
1:C:514:ASN:O	1:C:517:LYS:N	2.22	0.73
1:C:2009:CYS:O	1:C:2013:SER:CA	2.36	0.73
1:B:2268:TRP:O	1:B:2272:ASN:ND2	2.22	0.73
1:A:270:GLN:HE21	1:A:271:SER:H	1.32	0.73
1:A:2715:GLN:NE2	1:B:2713:SER:HB3	2.00	0.73
1:B:819:TYR:H	1:B:877:GLY:HA3	1.53	0.73
1:A:819:TYR:H	1:A:877:GLY:HA3	1.53	0.72
1:A:2372:PHE:CE2	1:A:2391:GLU:HG3	2.24	0.72
1:A:2725:GLU:OE1	1:B:2720:LYS:HD3	1.88	0.72
1:C:460:LEU:HD23	1:C:465:ILE:CG2	2.09	0.72
1:A:1619:VAL:C	1:A:1621:ALA:N	2.41	0.72
1:A:2213:PRO:HD3	1:A:2647:LEU:HB2	0.73	0.72
1:C:64:ASN:ND2	1:C:106:GLU:OE1	2.22	0.72
1:C:2372:PHE:CE2	1:C:2391:GLU:HG3	2.24	0.72
1:B:62:PRO:CB	1:B:110:LEU:HD13	2.20	0.72
1:D:62:PRO:CB	1:D:110:LEU:HD13	2.20	0.72
1:D:78:PRO:HA	1:D:81:ASN:O	1.89	0.72
1:D:2268:TRP:O	1:D:2272:ASN:ND2	2.22	0.72
1:D:2425:GLU:HA	1:D:2428:LEU:HB3	1.71	0.72
1:A:62:PRO:CB	1:A:110:LEU:HD13	2.20	0.72
1:A:460:LEU:HD23	1:A:465:ILE:CG2	2.09	0.72
1:A:2411:PHE:O	1:A:2413:TYR:N	2.22	0.72
1:A:2649:LYS:HA	1:A:2649:LYS:CE	2.18	0.72
1:D:2566:ARG:HB3	1:D:2566:ARG:CZ	2.18	0.72
1:A:2200:ARG:HD2	1:A:2662:TYR:CD1	2.24	0.72
1:A:2268:TRP:O	1:A:2272:ASN:ND2	2.22	0.72
1:C:270:GLN:H	2:C:2801:JYP:C4	1.96	0.72
1:B:78:PRO:HA	1:B:81:ASN:O	1.89	0.72
1:D:2213:PRO:HD3	1:D:2647:LEU:HB2	0.73	0.72
1:A:453:LEU:HA	1:A:521:LYS:HZ3	1.54	0.72
1:A:2350:LEU:O	1:A:2351:GLN:HB2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2559:GLU:CD	1:A:2562:LEU:HG	2.07	0.72
1:C:62:PRO:CB	1:C:110:LEU:HD13	2.20	0.72
1:B:568:ARG:O	2:B:2801:JYP:O14	2.07	0.72
1:B:2241:ASN:N	1:B:2241:ASN:OD1	2.22	0.72
1:B:2549:VAL:CG2	1:B:2574:PHE:HA	2.20	0.72
1:D:817:ASP:CA	1:D:878:PHE:CA	2.67	0.72
1:D:2239:LYS:CD	1:D:2240:ILE:HG13	2.20	0.72
1:D:2566:ARG:HB3	1:D:2566:ARG:NH1	2.04	0.72
1:A:453:LEU:HA	1:A:456:ILE:HD12	1.71	0.72
1:C:453:LEU:HA	1:C:456:ILE:HD12	1.71	0.72
1:C:2411:PHE:O	1:C:2413:TYR:N	2.22	0.72
1:C:2649:LYS:HA	1:C:2649:LYS:CE	2.18	0.72
1:B:509:LEU:HA	1:B:512:GLU:HB3	1.71	0.72
1:B:816:ILE:O	1:B:878:PHE:N	2.23	0.72
1:B:2365:LYS:CE	1:B:2398:TYR:HB3	2.18	0.72
1:D:488:THR:CB	1:D:559:VAL:HG13	2.19	0.72
1:C:2241:ASN:OD1	1:C:2241:ASN:N	2.22	0.72
1:B:488:THR:CB	1:B:559:VAL:HG13	2.19	0.72
1:B:2576:MET:HE1	1:B:2580:ILE:CG1	2.16	0.72
1:D:453:LEU:HA	1:D:456:ILE:HD12	1.71	0.72
1:D:2549:VAL:CG2	1:D:2574:PHE:HA	2.20	0.72
1:C:108:ARG:HG3	1:C:108:ARG:NH1	1.95	0.72
1:C:481:VAL:HG11	1:C:559:VAL:HG11	1.70	0.72
1:C:564:GLN:HE22	1:C:578:PHE:HD2	1.33	0.72
1:C:602:ASN:O	1:C:603:ARG:C	2.22	0.72
1:C:2268:TRP:O	1:C:2272:ASN:ND2	2.22	0.72
1:B:2350:LEU:O	1:B:2351:GLN:HB2	1.90	0.72
1:B:2649:LYS:HA	1:B:2649:LYS:CE	2.18	0.72
1:D:2649:LYS:HA	1:D:2649:LYS:CE	2.18	0.72
1:A:74:LYS:HA	1:A:74:LYS:CE	2.20	0.72
1:A:108:ARG:HG3	1:A:108:ARG:NH1	1.95	0.72
1:A:488:THR:CB	1:A:559:VAL:HG13	2.19	0.72
1:A:509:LEU:HA	1:A:512:GLU:HB3	1.71	0.72
1:A:2239:LYS:CD	1:A:2240:ILE:HG13	2.20	0.72
1:C:488:THR:CB	1:C:559:VAL:HG13	2.19	0.72
1:C:2239:LYS:CD	1:C:2240:ILE:HG13	2.20	0.72
1:C:2547:GLY:HA2	1:D:2546:GLY:H	1.54	0.72
1:B:74:LYS:HA	1:B:74:LYS:CE	2.20	0.72
1:D:269:ARG:HB3	2:D:2801:JYP:C4	1.94	0.72
1:D:2285:VAL:HG23	1:D:2417:LEU:HD13	1.69	0.72
1:D:2411:PHE:O	1:D:2413:TYR:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2649:LYS:C	1:D:2650:VAL:HG13	2.08	0.72
1:A:2549:VAL:CG2	1:A:2574:PHE:HA	2.20	0.72
1:C:2576:MET:HE2	1:C:2580:ILE:CG1	2.19	0.72
1:B:2213:PRO:HD3	1:B:2647:LEU:HB2	0.73	0.72
1:A:2239:LYS:NZ	1:A:2677:ARG:NE	2.36	0.71
1:C:2560:GLU:HG2	1:C:2563:PHE:CE2	2.16	0.71
1:C:2586:PHE:HE1	1:B:2583:ASN:HB3	1.48	0.71
1:B:481:VAL:HG11	1:B:559:VAL:HG11	1.70	0.71
1:B:2288:ASN:HD21	1:B:2417:LEU:CB	1.91	0.71
1:B:2401:ILE:CB	1:B:2416:LEU:HD22	2.20	0.71
1:B:2411:PHE:O	1:B:2413:TYR:N	2.22	0.71
1:B:2576:MET:HE2	1:B:2580:ILE:CG1	2.20	0.71
1:D:816:ILE:O	1:D:878:PHE:N	2.23	0.71
1:D:2288:ASN:HB2	1:D:2413:TYR:C	2.11	0.71
1:A:522:LEU:CD2	1:A:553:CYS:SG	2.78	0.71
1:A:816:ILE:O	1:A:878:PHE:N	2.23	0.71
1:C:2213:PRO:HD3	1:C:2647:LEU:HB2	0.73	0.71
1:C:2732:ARG:HB3	1:C:2732:ARG:NH1	2.03	0.71
1:B:453:LEU:HA	1:B:456:ILE:HD12	1.71	0.71
1:D:2219:LEU:CD2	1:D:2254:MET:HE1	2.20	0.71
1:A:602:ASN:O	1:A:603:ARG:C	2.22	0.71
1:C:78:PRO:HA	1:C:81:ASN:O	1.89	0.71
1:C:2706:MET:O	1:B:2707:LYS:HE2	1.90	0.71
1:D:263:PHE:HD2	1:D:265:ARG:HH21	1.37	0.71
1:D:2694:GLU:H	1:D:2698:LEU:HD12	1.55	0.71
1:B:2288:ASN:HB2	1:B:2413:TYR:C	2.11	0.71
1:D:522:LEU:CD2	1:D:553:CYS:SG	2.78	0.71
1:D:2288:ASN:HB2	1:D:2413:TYR:CB	2.19	0.71
1:A:443:LEU:O	1:A:443:LEU:HD22	1.91	0.71
1:C:574:ILE:CA	1:C:577:GLN:OE1	2.32	0.71
1:D:74:LYS:HA	1:D:74:LYS:CE	2.20	0.71
1:D:2401:ILE:CB	1:D:2416:LEU:HD22	2.20	0.71
1:A:2401:ILE:CB	1:A:2416:LEU:HD22	2.20	0.71
1:A:2699:GLN:HG3	1:D:2700:GLU:OE1	1.91	0.71
1:C:74:LYS:HA	1:C:74:LYS:CE	2.20	0.71
1:C:2350:LEU:O	1:C:2351:GLN:HB2	1.90	0.71
1:C:2368:PHE:CE2	1:C:2395:HIS:CE1	2.76	0.71
1:B:443:LEU:O	1:B:443:LEU:HD22	1.91	0.71
1:B:2345:ILE:O	1:B:2348:VAL:HG12	1.86	0.71
1:D:2348:VAL:CG2	1:D:2353:THR:HG22	2.21	0.71
1:D:2365:LYS:HZ1	1:D:2395:HIS:HB3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:PRO:C	1:C:81:ASN:O	2.29	0.71
1:C:2288:ASN:HB2	1:C:2413:TYR:C	2.11	0.71
1:C:2649:LYS:C	1:C:2650:VAL:HG13	2.08	0.71
1:B:453:LEU:HA	1:B:521:LYS:HZ3	1.54	0.71
1:B:2368:PHE:CE2	1:B:2395:HIS:CE1	2.76	0.71
1:B:2372:PHE:CE2	1:B:2391:GLU:HG3	2.24	0.71
1:D:1619:VAL:C	1:D:1621:ALA:N	2.41	0.71
1:C:2549:VAL:CG2	1:C:2574:PHE:HA	2.20	0.71
1:B:2239:LYS:CD	1:B:2240:ILE:HG13	2.20	0.71
1:D:568:ARG:O	2:D:2801:JYP:O14	2.07	0.71
1:C:816:ILE:O	1:C:878:PHE:N	2.23	0.71
1:C:2348:VAL:CG2	1:C:2353:THR:HG22	2.21	0.71
1:B:270:GLN:H	2:B:2801:JYP:C4	1.96	0.71
1:B:554:ARG:NE	1:B:554:ARG:O	2.24	0.71
1:B:2271:ARG:HH12	1:B:2272:ASN:CG	1.88	0.71
1:B:2649:LYS:C	1:B:2650:VAL:HG13	2.08	0.71
1:B:2683:LEU:C	1:B:2684:VAL:HG22	2.11	0.71
1:A:237:GLY:O	1:A:283:GLU:HG3	1.91	0.71
1:A:2434:VAL:HG13	1:A:2589:ILE:CD1	2.21	0.71
1:D:460:LEU:HD23	1:D:465:ILE:CG2	2.09	0.71
1:D:564:GLN:CB	1:D:574:ILE:CD1	2.66	0.71
1:D:2732:ARG:HB3	1:D:2732:ARG:NH1	2.03	0.71
1:A:263:PHE:HD2	1:A:265:ARG:HH21	1.37	0.70
1:A:2288:ASN:HB2	1:A:2413:TYR:C	2.11	0.70
1:C:2407:PHE:H	1:C:2408:VAL:HG22	1.55	0.70
1:C:2434:VAL:HG13	1:C:2589:ILE:CD1	2.21	0.70
1:D:2241:ASN:OD1	1:D:2241:ASN:N	2.22	0.70
1:D:2618:ARG:HD2	1:D:2628:PHE:CZ	2.26	0.70
1:D:2716:LEU:H	1:D:2716:LEU:CD2	1.93	0.70
1:A:2407:PHE:H	1:A:2408:VAL:HG22	1.55	0.70
1:C:2624:LYS:HB2	1:C:2624:LYS:NZ	2.06	0.70
1:B:237:GLY:O	1:B:283:GLU:HG3	1.91	0.70
1:B:522:LEU:CD2	1:B:553:CYS:SG	2.78	0.70
1:B:564:GLN:CB	1:B:574:ILE:CD1	2.66	0.70
1:B:2434:VAL:HG13	1:B:2589:ILE:CD1	2.21	0.70
1:D:2350:LEU:O	1:D:2351:GLN:HB2	1.90	0.70
1:A:88:LEU:C	1:A:92:LEU:HD11	2.01	0.70
1:A:574:ILE:CA	1:A:577:GLN:OE1	2.32	0.70
1:A:1961:ALA:O	1:A:1965:ILE:N	2.22	0.70
1:A:2273:MET:HB2	1:A:2371:SER:HG	1.54	0.70
1:A:2546:GLY:H	1:D:2547:GLY:HA2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2649:LYS:C	1:A:2650:VAL:HG13	2.08	0.70
1:C:2191:LYS:O	1:C:2212:VAL:CG2	2.39	0.70
1:C:2694:GLU:H	1:C:2698:LEU:HD12	1.55	0.70
1:B:1313:GLN:O	1:B:1317:LYS:CA	2.40	0.70
1:D:237:GLY:O	1:D:283:GLU:HG3	1.91	0.70
1:D:443:LEU:O	1:D:443:LEU:HD22	1.91	0.70
1:D:554:ARG:O	1:D:554:ARG:NE	2.24	0.70
1:A:2732:ARG:HH11	1:A:2732:ARG:CB	2.03	0.70
1:C:2288:ASN:HD21	1:C:2417:LEU:CB	1.91	0.70
1:C:2683:LEU:C	1:C:2684:VAL:HG22	2.10	0.70
1:D:2448:ALA:HB2	1:D:2581:VAL:HG21	1.74	0.70
1:A:554:ARG:NE	1:A:554:ARG:O	2.24	0.70
1:C:522:LEU:CD2	1:C:553:CYS:SG	2.78	0.70
1:C:554:ARG:NE	1:C:554:ARG:O	2.24	0.70
1:C:2239:LYS:HZ2	1:C:2677:ARG:HE	1.36	0.70
1:C:2349:GLY:O	1:C:2352:PRO:CD	2.40	0.70
1:C:2612:PHE:CD2	1:C:2638:MET:SD	2.85	0.70
1:B:2191:LYS:O	1:B:2212:VAL:CG2	2.39	0.70
1:B:2387:VAL:HG13	1:B:2388:LEU:HD23	1.72	0.70
1:B:2694:GLU:H	1:B:2698:LEU:HD12	1.56	0.70
1:D:2434:VAL:HG13	1:D:2589:ILE:CD1	2.21	0.70
1:A:2211:PRO:O	1:A:2647:LEU:HD21	1.89	0.70
1:A:2368:PHE:CE2	1:A:2395:HIS:CE1	2.76	0.70
1:A:2694:GLU:H	1:A:2698:LEU:HD12	1.55	0.70
1:C:443:LEU:O	1:C:443:LEU:HD22	1.91	0.70
1:C:2448:ALA:HB2	1:C:2581:VAL:HG21	1.74	0.70
1:A:2618:ARG:HD2	1:A:2628:PHE:CZ	2.26	0.70
1:C:237:GLY:O	1:C:283:GLU:HG3	1.91	0.70
1:C:1313:GLN:O	1:C:1317:LYS:CA	2.40	0.70
1:C:2447:LEU:HD12	1:D:2427:LEU:HD21	1.74	0.70
1:D:78:PRO:C	1:D:81:ASN:O	2.29	0.70
1:D:2407:PHE:H	1:D:2408:VAL:HG22	1.55	0.70
1:D:2694:GLU:N	1:D:2698:LEU:HD12	2.07	0.70
1:A:2622:ASP:CB	1:A:2628:PHE:CG	2.74	0.70
1:C:2618:ARG:HD2	1:C:2628:PHE:CZ	2.26	0.70
1:D:1313:GLN:O	1:D:1317:LYS:CA	2.40	0.70
1:A:78:PRO:C	1:A:81:ASN:O	2.29	0.70
1:A:2241:ASN:OD1	1:A:2241:ASN:N	2.22	0.70
1:A:2288:ASN:HB2	1:A:2413:TYR:CB	2.19	0.70
1:A:2624:LYS:HB2	1:A:2624:LYS:NZ	2.06	0.70
1:A:2696:ARG:NH2	1:B:2696:ARG:NH2	2.35	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2401:ILE:CB	1:C:2416:LEU:HD22	2.20	0.70
1:B:2348:VAL:HG12	1:B:2353:THR:HB	1.72	0.70
1:B:2619:ASP:OD2	1:B:2619:ASP:N	2.25	0.70
1:B:2622:ASP:CB	1:B:2628:PHE:CG	2.74	0.70
1:B:2732:ARG:HH11	1:B:2732:ARG:CB	2.03	0.70
1:D:1961:ALA:O	1:D:1965:ILE:N	2.22	0.70
1:D:2191:LYS:O	1:D:2212:VAL:CG2	2.39	0.70
1:A:2345:ILE:CD1	1:A:2356:LEU:HD23	2.15	0.70
1:A:2345:ILE:HG23	1:A:2348:VAL:CG1	2.22	0.70
1:A:2628:PHE:O	1:A:2631:HIS:ND1	2.25	0.70
1:C:2272:ASN:CG	1:C:2276:TRP:CZ2	2.63	0.70
1:C:2583:ASN:HB2	1:D:2586:PHE:CZ	2.27	0.70
1:C:2677:ARG:NH2	1:D:2623:ASN:ND2	2.39	0.70
1:C:2700:GLU:CD	1:D:2699:GLN:HA	2.13	0.70
1:B:85:ASP:N	1:B:85:ASP:OD1	2.16	0.70
1:B:2624:LYS:HB2	1:B:2624:LYS:NZ	2.06	0.70
1:A:2694:GLU:N	1:A:2698:LEU:HD12	2.07	0.69
1:C:92:LEU:HD13	1:C:92:LEU:N	2.07	0.69
1:C:646:PRO:C	1:C:649:GLN:N	2.45	0.69
1:C:2285:VAL:HG23	1:C:2417:LEU:HD13	1.69	0.69
1:C:2618:ARG:HB3	1:C:2618:ARG:CZ	2.16	0.69
1:B:104:GLU:C	1:B:106:GLU:H	1.95	0.69
1:B:263:PHE:HD2	1:B:265:ARG:HH21	1.37	0.69
1:B:2694:GLU:N	1:B:2698:LEU:HD12	2.07	0.69
1:D:2619:ASP:OD2	1:D:2619:ASP:N	2.25	0.69
1:D:2624:LYS:HB2	1:D:2624:LYS:NZ	2.06	0.69
1:A:275:ALA:CB	2:A:2801:JYP:N4	2.46	0.69
1:A:2387:VAL:HG13	1:A:2388:LEU:HD23	1.73	0.69
1:A:2612:PHE:CD2	1:A:2638:MET:SD	2.85	0.69
1:C:2622:ASP:CB	1:C:2628:PHE:CG	2.74	0.69
1:B:2448:ALA:HB2	1:B:2581:VAL:HG21	1.74	0.69
1:D:574:ILE:CA	1:D:577:GLN:OE1	2.32	0.69
1:D:2273:MET:HB2	1:D:2371:SER:HG	1.54	0.69
1:D:2612:PHE:CD2	1:D:2638:MET:SD	2.85	0.69
1:A:92:LEU:HD13	1:A:92:LEU:N	2.07	0.69
1:A:646:PRO:C	1:A:649:GLN:N	2.45	0.69
1:A:2365:LYS:CE	1:A:2395:HIS:O	2.40	0.69
1:A:2365:LYS:HZ1	1:A:2395:HIS:HB3	1.57	0.69
1:A:2433:SER:CB	1:A:2593:PHE:CE1	2.59	0.69
1:A:2576:MET:HE2	1:A:2580:ILE:CG1	2.21	0.69
1:C:2365:LYS:HZ1	1:C:2395:HIS:HB3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2387:VAL:HG13	1:C:2388:LEU:HD23	1.73	0.69
1:B:69:GLN:NE2	1:B:100:LYS:CD	2.24	0.69
1:B:486:GLY:HA3	1:B:510:MET:HE3	1.74	0.69
1:B:2191:LYS:O	1:B:2192:HIS:CB	2.40	0.69
1:B:2732:ARG:HB3	1:B:2732:ARG:NH1	2.03	0.69
1:A:74:LYS:HA	1:A:74:LYS:HZ1	1.55	0.69
1:A:2191:LYS:O	1:A:2212:VAL:CG2	2.39	0.69
1:A:2706:MET:O	1:D:2707:LYS:CE	2.40	0.69
1:C:263:PHE:HD2	1:C:265:ARG:HH21	1.37	0.69
1:C:2546:GLY:H	1:B:2547:GLY:HA2	1.57	0.69
1:B:2345:ILE:HG23	1:B:2348:VAL:CG1	2.22	0.69
1:D:2268:TRP:O	1:D:2271:ARG:HD3	1.93	0.69
1:D:2272:ASN:CG	1:D:2276:TRP:CZ2	2.63	0.69
1:A:564:GLN:CB	1:A:574:ILE:CD1	2.66	0.69
1:A:1313:GLN:O	1:A:1317:LYS:CA	2.40	0.69
1:C:2211:PRO:O	1:C:2647:LEU:HD21	1.89	0.69
1:C:2268:TRP:O	1:C:2271:ARG:HD3	1.93	0.69
1:D:2622:ASP:CB	1:D:2628:PHE:CG	2.74	0.69
1:A:68:ALA:C	1:A:100:LYS:HZ1	1.96	0.69
1:A:68:ALA:HB1	1:A:96:ALA:HA	1.74	0.69
1:A:2276:TRP:HB3	1:A:2367:ILE:CD1	2.23	0.69
1:C:453:LEU:HD23	1:C:453:LEU:N	2.08	0.69
1:B:68:ALA:HB1	1:B:96:ALA:HA	1.74	0.69
1:B:89:LEU:O	1:B:92:LEU:HD22	1.87	0.69
1:B:92:LEU:HD13	1:B:92:LEU:N	2.07	0.69
1:B:2407:PHE:H	1:B:2408:VAL:HG22	1.55	0.69
1:B:2618:ARG:HD2	1:B:2628:PHE:CZ	2.26	0.69
1:D:520:PHE:CD1	1:D:523:LEU:CD1	2.70	0.69
1:A:2448:ALA:HB2	1:A:2581:VAL:HG21	1.74	0.69
1:A:2696:ARG:NH2	1:B:2696:ARG:HH22	1.91	0.69
1:A:2713:SER:CB	1:D:2715:GLN:HE21	2.01	0.69
1:A:2732:ARG:HB3	1:A:2732:ARG:NH1	2.03	0.69
1:C:275:ALA:CB	2:C:2801:JYP:N4	2.46	0.69
1:C:2285:VAL:HG23	1:C:2288:ASN:HD21	1.57	0.69
1:C:2345:ILE:HG23	1:C:2348:VAL:CG1	2.22	0.69
1:C:2399:LEU:O	1:C:2402:CYS:HB2	1.92	0.69
1:B:78:PRO:C	1:B:81:ASN:O	2.29	0.69
1:B:2272:ASN:CG	1:B:2276:TRP:CZ2	2.63	0.69
1:B:2276:TRP:HB3	1:B:2367:ILE:CD1	2.23	0.69
1:D:85:ASP:OD1	1:D:85:ASP:N	2.16	0.69
1:D:92:LEU:N	1:D:92:LEU:HD13	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:453:LEU:CA	1:D:521:LYS:HZ2	2.02	0.69
1:D:646:PRO:C	1:D:649:GLN:N	2.45	0.69
1:D:2285:VAL:HG23	1:D:2288:ASN:HD21	1.57	0.69
1:D:2399:LEU:O	1:D:2402:CYS:HB2	1.92	0.69
1:A:270:GLN:HE22	1:A:271:SER:H	1.37	0.69
1:C:2622:ASP:CG	1:C:2628:PHE:CE1	2.61	0.69
1:C:2694:GLU:N	1:C:2698:LEU:HD12	2.07	0.69
1:B:441:ARG:CZ	1:B:441:ARG:HB2	2.23	0.69
1:B:2239:LYS:HZ3	1:B:2677:ARG:CD	2.04	0.69
1:B:2612:PHE:CD2	1:B:2638:MET:SD	2.85	0.69
1:D:2216:CYS:HG	1:D:2646:VAL:HG21	1.56	0.69
1:D:2276:TRP:HB3	1:D:2367:ILE:CD1	2.23	0.69
1:D:2368:PHE:CE2	1:D:2395:HIS:CE1	2.76	0.69
1:D:2387:VAL:HG13	1:D:2388:LEU:HD23	1.73	0.69
1:A:2243:PHE:HE2	1:A:2638:MET:HB3	1.50	0.69
1:A:2560:GLU:CG	1:A:2563:PHE:HE2	1.80	0.69
1:A:2649:LYS:HA	1:A:2649:LYS:HZ2	1.54	0.69
1:C:2427:LEU:HD11	1:B:2447:LEU:HD13	1.74	0.69
1:C:2619:ASP:N	1:C:2619:ASP:OD2	2.25	0.69
1:B:460:LEU:HD13	1:B:460:LEU:C	2.14	0.69
1:B:514:ASN:HB3	1:B:517:LYS:N	2.07	0.69
1:B:2349:GLY:O	1:B:2352:PRO:CD	2.40	0.69
1:B:2628:PHE:O	1:B:2631:HIS:ND1	2.25	0.69
1:D:448:ASP:HA	1:D:451:LYS:HD2	1.75	0.69
1:D:2345:ILE:O	1:D:2348:VAL:HG12	1.86	0.69
1:D:2683:LEU:C	1:D:2684:VAL:HG22	2.11	0.69
1:A:104:GLU:C	1:A:106:GLU:H	1.95	0.68
1:A:2348:VAL:CG2	1:A:2353:THR:HG22	2.21	0.68
1:C:2181:ASP:O	1:C:2183:ASP:OD1	2.11	0.68
1:C:2288:ASN:HB2	1:C:2413:TYR:CB	2.19	0.68
1:C:2365:LYS:CE	1:C:2395:HIS:O	2.40	0.68
1:B:1961:ALA:O	1:B:1965:ILE:N	2.22	0.68
1:B:2365:LYS:CE	1:B:2395:HIS:O	2.40	0.68
1:B:2558:LYS:CD	1:B:2560:GLU:CG	2.71	0.68
1:B:2560:GLU:CG	1:B:2563:PHE:HE2	1.79	0.68
1:D:2345:ILE:HG23	1:D:2348:VAL:CG1	2.22	0.68
1:A:460:LEU:HD13	1:A:460:LEU:C	2.14	0.68
1:A:2239:LYS:HG3	1:A:2613:ILE:CG2	2.24	0.68
1:A:2349:GLY:O	1:A:2352:PRO:CD	2.40	0.68
1:A:2354:LEU:C	1:A:2354:LEU:HD12	2.14	0.68
1:C:441:ARG:HB2	1:C:441:ARG:CZ	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:646:PRO:C	1:B:649:GLN:N	2.45	0.68
1:B:2348:VAL:CG2	1:B:2353:THR:HG22	2.21	0.68
1:B:2354:LEU:C	1:B:2354:LEU:HD12	2.14	0.68
1:D:89:LEU:O	1:D:92:LEU:HD22	1.87	0.68
1:D:514:ASN:HB3	1:D:517:LYS:N	2.07	0.68
1:D:2365:LYS:CE	1:D:2395:HIS:O	2.40	0.68
1:A:453:LEU:O	1:A:521:LYS:HD2	1.94	0.68
1:A:514:ASN:O	1:A:515:ILE:C	2.32	0.68
1:A:2181:ASP:O	1:A:2183:ASP:OD1	2.11	0.68
1:A:2619:ASP:OD2	1:A:2619:ASP:N	2.25	0.68
1:C:68:ALA:HB1	1:C:96:ALA:HA	1.74	0.68
1:C:104:GLU:C	1:C:106:GLU:H	1.95	0.68
1:C:460:LEU:HD13	1:C:460:LEU:C	2.13	0.68
1:C:2271:ARG:HH12	1:C:2272:ASN:ND2	1.89	0.68
1:C:2623:ASN:CG	1:B:2677:ARG:NH2	2.45	0.68
1:D:68:ALA:HB1	1:D:96:ALA:HA	1.74	0.68
1:D:453:LEU:O	1:D:521:LYS:HD2	1.94	0.68
1:A:2623:ASN:OD1	1:D:2677:ARG:CD	2.38	0.68
1:A:2699:GLN:HA	1:D:2700:GLU:CD	2.12	0.68
1:C:2240:ILE:N	1:C:2240:ILE:HD12	2.08	0.68
1:B:2399:LEU:O	1:B:2402:CYS:HB2	1.92	0.68
1:D:441:ARG:CZ	1:D:441:ARG:HB2	2.23	0.68
1:A:514:ASN:HB3	1:A:517:LYS:N	2.07	0.68
1:A:2559:GLU:OE1	1:A:2562:LEU:HD23	1.70	0.68
1:C:443:LEU:HD22	1:C:443:LEU:C	2.14	0.68
1:B:2288:ASN:HB2	1:B:2413:TYR:CB	2.19	0.68
1:D:2211:PRO:O	1:D:2647:LEU:HD21	1.89	0.68
1:A:2268:TRP:O	1:A:2271:ARG:HD3	1.93	0.68
1:A:2285:VAL:HG23	1:A:2288:ASN:HD21	1.57	0.68
1:A:2288:ASN:HD21	1:A:2417:LEU:CB	1.91	0.68
1:A:2622:ASP:CG	1:A:2628:PHE:CE1	2.61	0.68
1:C:453:LEU:O	1:C:521:LYS:HD2	1.94	0.68
1:B:646:PRO:O	1:B:650:GLU:N	2.24	0.68
1:B:2240:ILE:N	1:B:2240:ILE:HD12	2.08	0.68
1:D:2213:PRO:HG3	1:D:2647:LEU:CA	2.06	0.68
1:D:2732:ARG:HH11	1:D:2732:ARG:CB	2.03	0.68
1:C:2276:TRP:HB3	1:C:2367:ILE:CD1	2.23	0.68
1:C:2624:LYS:HB2	1:C:2624:LYS:HZ3	1.57	0.68
1:C:2655:GLU:OE1	1:C:2655:GLU:N	2.18	0.68
1:B:2268:TRP:O	1:B:2271:ARG:HD3	1.93	0.68
1:D:2181:ASP:O	1:D:2183:ASP:OD1	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TRP:O	1:A:74:LYS:C	2.32	0.68
1:A:2624:LYS:HB2	1:A:2624:LYS:HZ3	1.58	0.68
1:C:2219:LEU:CD2	1:C:2254:MET:HE1	2.24	0.68
1:D:646:PRO:O	1:D:650:GLU:N	2.24	0.68
1:D:2354:LEU:C	1:D:2354:LEU:HD12	2.14	0.68
1:A:2240:ILE:N	1:A:2240:ILE:HD12	2.08	0.68
1:D:443:LEU:HD22	1:D:443:LEU:C	2.14	0.68
1:D:522:LEU:HD13	1:D:522:LEU:C	2.14	0.68
1:A:2399:LEU:HD22	1:A:2399:LEU:C	2.15	0.68
1:A:2558:LYS:CD	1:A:2560:GLU:CG	2.71	0.68
1:C:520:PHE:CD1	1:C:523:LEU:CD1	2.70	0.68
1:C:2354:LEU:HD12	1:C:2354:LEU:C	2.14	0.68
1:B:453:LEU:O	1:B:521:LYS:HD2	1.94	0.68
1:B:453:LEU:N	1:B:453:LEU:HD23	2.08	0.68
1:B:2181:ASP:O	1:B:2183:ASP:OD1	2.11	0.68
1:B:2239:LYS:HG3	1:B:2613:ILE:CG2	2.24	0.68
1:B:2243:PHE:CE2	1:B:2638:MET:CB	2.53	0.68
1:D:2399:LEU:HD22	1:D:2399:LEU:C	2.15	0.68
1:D:2628:PHE:O	1:D:2631:HIS:ND1	2.25	0.68
1:A:441:ARG:HB2	1:A:441:ARG:CZ	2.23	0.67
1:A:443:LEU:HD22	1:A:443:LEU:C	2.14	0.67
1:A:453:LEU:N	1:A:453:LEU:HD23	2.08	0.67
1:A:2399:LEU:O	1:A:2402:CYS:HB2	1.92	0.67
1:B:2720:LYS:HE2	1:B:2720:LYS:CA	2.24	0.67
1:D:179:GLY:H	1:D:220:ILE:HB	1.59	0.67
1:D:2612:PHE:HB3	1:D:2636:HIS:HB3	1.77	0.67
1:A:179:GLY:H	1:A:220:ILE:HB	1.59	0.67
1:A:448:ASP:HA	1:A:451:LYS:HD2	1.75	0.67
1:A:646:PRO:O	1:A:650:GLU:N	2.24	0.67
1:A:2272:ASN:CG	1:A:2276:TRP:CZ2	2.63	0.67
1:C:2573:PHE:O	1:C:2574:PHE:C	2.29	0.67
1:B:514:ASN:O	1:B:515:ILE:C	2.32	0.67
1:D:73:TRP:O	1:D:74:LYS:C	2.32	0.67
1:A:2345:ILE:C	1:A:2348:VAL:CG1	2.57	0.67
1:C:2628:PHE:O	1:C:2631:HIS:ND1	2.25	0.67
1:C:2732:ARG:HH11	1:C:2732:ARG:CB	2.03	0.67
1:B:443:LEU:HD22	1:B:443:LEU:C	2.14	0.67
1:B:564:GLN:HB2	1:B:574:ILE:HD12	1.74	0.67
1:B:2211:PRO:O	1:B:2647:LEU:HD21	1.89	0.67
1:D:2432:LYS:C	1:D:2434:VAL:N	2.47	0.67
1:A:1979:ASN:O	1:A:1980:HIS:C	2.32	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:448:ASP:HA	1:C:451:LYS:HD2	1.75	0.67
1:C:564:GLN:CB	1:C:574:ILE:CD1	2.66	0.67
1:C:564:GLN:HB2	1:C:574:ILE:HD12	1.74	0.67
1:C:2710:THR:CB	1:B:2707:LYS:HZ2	1.89	0.67
1:B:88:LEU:H	1:B:88:LEU:HD13	1.59	0.67
1:B:2213:PRO:HD3	1:B:2647:LEU:CG	2.24	0.67
1:B:2285:VAL:HG23	1:B:2417:LEU:HD13	1.69	0.67
1:B:2624:LYS:HB2	1:B:2624:LYS:HZ3	1.57	0.67
1:D:2349:GLY:O	1:D:2352:PRO:CD	2.40	0.67
1:A:2356:LEU:C	1:A:2356:LEU:HD12	2.15	0.67
1:A:2583:ASN:ND2	1:B:2586:PHE:CG	2.62	0.67
1:A:2713:SER:OG	1:D:2715:GLN:NE2	2.26	0.67
1:A:2720:LYS:HE2	1:A:2720:LYS:CA	2.24	0.67
1:C:524:GLN:HA	1:C:527:PHE:HD2	1.60	0.67
1:C:1979:ASN:O	1:C:1980:HIS:C	2.32	0.67
1:C:2239:LYS:HG3	1:C:2613:ILE:CG2	2.24	0.67
1:C:2285:VAL:HG22	1:C:2289:LEU:HD12	1.76	0.67
1:B:2285:VAL:HG23	1:B:2288:ASN:HD21	1.57	0.67
1:D:68:ALA:C	1:D:100:LYS:HZ1	1.97	0.67
1:D:72:PHE:O	1:D:75:ALA:HB2	1.94	0.67
1:D:2191:LYS:O	1:D:2192:HIS:CB	2.40	0.67
1:D:2720:LYS:HE2	1:D:2720:LYS:CA	2.24	0.67
1:A:72:PHE:O	1:A:75:ALA:HB2	1.94	0.67
1:A:2558:LYS:CE	1:A:2560:GLU:OE2	2.43	0.67
1:A:2683:LEU:C	1:A:2684:VAL:HG22	2.11	0.67
1:C:2699:GLN:CA	1:B:2700:GLU:OE1	2.40	0.67
1:D:453:LEU:N	1:D:453:LEU:HD23	2.08	0.67
1:D:524:GLN:HA	1:D:527:PHE:HD2	1.60	0.67
1:D:2239:LYS:HG3	1:D:2613:ILE:CG2	2.24	0.67
1:D:2573:PHE:O	1:D:2574:PHE:C	2.29	0.67
1:D:2650:VAL:HG23	1:D:2651:LYS:HG3	1.76	0.67
1:B:2216:CYS:SG	1:B:2646:VAL:HG13	2.35	0.67
1:B:2356:LEU:C	1:B:2356:LEU:HD12	2.15	0.67
1:B:2559:GLU:OE1	1:B:2562:LEU:HD23	1.70	0.67
1:D:2240:ILE:N	1:D:2240:ILE:HD12	2.08	0.67
1:A:522:LEU:HD13	1:A:522:LEU:C	2.14	0.67
1:C:391:ARG:NH1	1:C:396:ASN:OD1	2.28	0.67
1:C:2239:LYS:HE2	1:C:2240:ILE:HG13	1.77	0.67
1:C:2558:LYS:CD	1:C:2560:GLU:CG	2.71	0.67
1:B:391:ARG:NH1	1:B:396:ASN:OD1	2.28	0.67
1:D:104:GLU:C	1:D:106:GLU:H	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2219:LEU:CD2	1:A:2254:MET:HE1	2.24	0.67
1:A:2612:PHE:HB3	1:A:2636:HIS:HB3	1.77	0.67
1:C:2399:LEU:HD22	1:C:2399:LEU:C	2.15	0.67
1:C:2720:LYS:HE2	1:C:2720:LYS:CA	2.24	0.67
1:B:522:LEU:HD13	1:B:522:LEU:C	2.14	0.67
1:D:1979:ASN:O	1:D:1980:HIS:C	2.32	0.67
1:D:2356:LEU:C	1:D:2356:LEU:HD12	2.15	0.67
1:D:2558:LYS:CE	1:D:2560:GLU:OE2	2.43	0.67
1:A:85:ASP:OD1	1:A:85:ASP:N	2.16	0.67
1:A:524:GLN:HA	1:A:527:PHE:HD2	1.60	0.67
1:A:2191:LYS:O	1:A:2212:VAL:HG22	1.95	0.67
1:A:2348:VAL:HG12	1:A:2353:THR:HB	1.72	0.67
1:C:88:LEU:H	1:C:88:LEU:HD13	1.59	0.67
1:C:2566:ARG:HG3	1:C:2566:ARG:HH11	1.59	0.67
1:C:2650:VAL:HG23	1:C:2651:LYS:HG3	1.77	0.67
1:B:72:PHE:O	1:B:75:ALA:HB2	1.94	0.67
1:B:179:GLY:H	1:B:220:ILE:HB	1.60	0.67
1:B:2285:VAL:HG22	1:B:2289:LEU:HD12	1.76	0.67
1:D:2558:LYS:CD	1:D:2560:GLU:CG	2.71	0.67
1:A:391:ARG:NH1	1:A:396:ASN:OD1	2.28	0.66
1:A:2468:ILE:O	1:A:2526:HIS:ND1	2.28	0.66
1:C:488:THR:OG1	1:C:559:VAL:HG13	1.95	0.66
1:C:522:LEU:HD13	1:C:522:LEU:C	2.14	0.66
1:C:2706:MET:HG2	1:B:2703:GLU:OE2	1.89	0.66
1:B:2621:PHE:O	1:B:2624:LYS:CG	2.41	0.66
1:D:2285:VAL:HG22	1:D:2289:LEU:HD12	1.76	0.66
1:D:2655:GLU:OE1	1:D:2655:GLU:N	2.18	0.66
1:A:88:LEU:H	1:A:88:LEU:HD13	1.59	0.66
1:A:2566:ARG:HH11	1:A:2566:ARG:HG3	1.59	0.66
1:C:72:PHE:O	1:C:75:ALA:HB2	1.94	0.66
1:C:73:TRP:O	1:C:74:LYS:C	2.31	0.66
1:C:2239:LYS:HG3	1:C:2613:ILE:HG21	1.77	0.66
1:B:2399:LEU:HD22	1:B:2399:LEU:C	2.15	0.66
1:B:2558:LYS:CE	1:B:2560:GLU:OE2	2.43	0.66
1:A:488:THR:OG1	1:A:559:VAL:HG13	1.95	0.66
1:C:179:GLY:H	1:C:220:ILE:HB	1.59	0.66
1:C:2356:LEU:C	1:C:2356:LEU:HD12	2.15	0.66
1:B:488:THR:OG1	1:B:559:VAL:HG13	1.94	0.66
1:B:524:GLN:HA	1:B:527:PHE:HD2	1.60	0.66
1:B:2612:PHE:HB3	1:B:2636:HIS:HB3	1.77	0.66
1:D:88:LEU:H	1:D:88:LEU:HD13	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2715:GLN:CD	1:B:2713:SER:CB	2.62	0.66
1:C:2434:VAL:HG21	1:B:2584:LEU:CD1	2.16	0.66
1:D:391:ARG:NH1	1:D:396:ASN:OD1	2.28	0.66
1:D:450:SER:HA	1:D:453:LEU:HD12	1.77	0.66
1:D:460:LEU:HD13	1:D:460:LEU:C	2.14	0.66
1:D:1107:GLN:O	1:D:1110:ASP:N	2.28	0.66
1:D:2239:LYS:HG3	1:D:2613:ILE:HG21	1.77	0.66
1:D:2239:LYS:HE2	1:D:2240:ILE:HG13	1.77	0.66
1:D:2468:ILE:O	1:D:2526:HIS:ND1	2.28	0.66
1:A:2657:THR:HA	1:A:2660:GLU:HB2	1.78	0.66
1:A:2735:LEU:HD13	1:A:2735:LEU:C	2.16	0.66
1:C:1961:ALA:O	1:C:1965:ILE:N	2.22	0.66
1:C:2549:VAL:CG2	1:C:2573:PHE:HD2	2.09	0.66
1:B:2432:LYS:C	1:B:2434:VAL:N	2.47	0.66
1:B:2549:VAL:CG2	1:B:2573:PHE:HD2	2.09	0.66
1:D:108:ARG:NH1	1:D:108:ARG:O	2.29	0.66
1:D:488:THR:OG1	1:D:559:VAL:HG13	1.95	0.66
1:D:2243:PHE:HE2	1:D:2638:MET:HB3	1.50	0.66
1:A:2239:LYS:HG3	1:A:2613:ILE:HG21	1.77	0.66
1:A:2432:LYS:C	1:A:2434:VAL:N	2.47	0.66
1:A:2650:VAL:HG23	1:A:2651:LYS:HG3	1.77	0.66
1:A:2702:LEU:HD11	1:D:2700:GLU:HG2	1.75	0.66
1:C:450:SER:HA	1:C:453:LEU:HD12	1.77	0.66
1:B:448:ASP:HA	1:B:451:LYS:HD2	1.75	0.66
1:A:547:ALA:CB	1:A:548:PRO:CD	2.17	0.66
1:A:2285:VAL:HG22	1:A:2289:LEU:HD12	1.76	0.66
1:C:2288:ASN:ND2	1:C:2417:LEU:CB	2.51	0.66
1:B:1979:ASN:O	1:B:1980:HIS:C	2.32	0.66
1:B:2560:GLU:HG2	1:B:2563:PHE:CE2	2.16	0.66
1:B:2566:ARG:HH11	1:B:2566:ARG:HG3	1.59	0.66
1:D:2566:ARG:HH11	1:D:2566:ARG:HG3	1.59	0.66
1:A:1107:GLN:O	1:A:1110:ASP:N	2.28	0.66
1:A:2655:GLU:OE1	1:A:2655:GLU:N	2.18	0.66
1:C:456:ILE:HB	1:C:521:LYS:HZ2	1.61	0.66
1:C:2213:PRO:HD3	1:C:2647:LEU:CG	2.25	0.66
1:C:2432:LYS:C	1:C:2434:VAL:N	2.47	0.66
1:C:2612:PHE:HB3	1:C:2636:HIS:HB3	1.77	0.66
1:B:92:LEU:CD2	1:B:92:LEU:H	1.96	0.66
1:B:2365:LYS:HZ1	1:B:2395:HIS:HB3	1.60	0.66
1:D:2191:LYS:O	1:D:2212:VAL:HG22	1.95	0.66
1:A:2239:LYS:HE2	1:A:2240:ILE:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2243:PHE:HZ	1:A:2638:MET:CB	2.03	0.66
1:A:2621:PHE:O	1:A:2624:LYS:CG	2.41	0.66
1:B:108:ARG:NH1	1:B:108:ARG:O	2.29	0.66
1:B:1107:GLN:O	1:B:1110:ASP:N	2.28	0.66
1:B:2735:LEU:C	1:B:2735:LEU:HD13	2.16	0.66
1:D:92:LEU:HD22	1:D:92:LEU:N	2.07	0.66
1:A:2190:ALA:C	1:A:2192:HIS:N	2.48	0.66
1:C:1107:GLN:O	1:C:1110:ASP:N	2.28	0.66
1:B:88:LEU:C	1:B:92:LEU:HD11	2.01	0.66
1:B:2345:ILE:C	1:B:2348:VAL:CG1	2.57	0.66
1:B:2370:MET:HA	1:B:2370:MET:HE3	1.76	0.66
1:B:2401:ILE:HG13	1:B:2402:CYS:H	1.61	0.66
1:B:2468:ILE:O	1:B:2526:HIS:ND1	2.28	0.66
1:D:564:GLN:NE2	1:D:578:PHE:CD2	2.64	0.66
1:D:2397:LEU:HD23	1:D:2400:LEU:HD12	1.78	0.66
1:A:89:LEU:O	1:A:92:LEU:HD22	1.87	0.65
1:A:108:ARG:NH1	1:A:108:ARG:O	2.29	0.65
1:C:68:ALA:C	1:C:100:LYS:HZ3	1.97	0.65
1:C:2216:CYS:SG	1:C:2646:VAL:HG13	2.35	0.65
1:C:2397:LEU:HD23	1:C:2400:LEU:HD12	1.78	0.65
1:B:2178:GLY:O	1:B:2186:LEU:CG	2.44	0.65
1:D:2239:LYS:CE	1:D:2240:ILE:HG13	2.27	0.65
1:C:92:LEU:HD22	1:C:92:LEU:N	2.07	0.65
1:C:2191:LYS:O	1:C:2212:VAL:HG22	1.95	0.65
1:C:2621:PHE:O	1:C:2624:LYS:CG	2.41	0.65
1:B:2650:VAL:HG23	1:B:2651:LYS:HG3	1.76	0.65
1:D:2370:MET:HA	1:D:2370:MET:HE3	1.78	0.65
1:C:2558:LYS:CE	1:C:2560:GLU:OE2	2.43	0.65
1:B:68:ALA:C	1:B:100:LYS:HZ1	1.98	0.65
1:B:107:ASN:HA	1:B:110:LEU:HD12	1.79	0.65
1:B:2657:THR:HA	1:B:2660:GLU:HB2	1.78	0.65
1:D:2434:VAL:O	1:D:2434:VAL:HG12	1.97	0.65
1:D:2576:MET:HE1	1:D:2580:ILE:CG1	2.18	0.65
1:D:2735:LEU:HD13	1:D:2735:LEU:C	2.16	0.65
1:A:250:PHE:O	1:A:264:LEU:HB2	1.96	0.65
1:C:523:LEU:HD22	1:C:523:LEU:C	2.17	0.65
1:C:2468:ILE:O	1:C:2526:HIS:ND1	2.28	0.65
1:C:2707:LYS:HE2	1:D:2706:MET:C	2.17	0.65
1:B:2191:LYS:O	1:B:2212:VAL:HG22	1.95	0.65
1:B:2345:ILE:CD1	1:B:2356:LEU:HD23	2.15	0.65
1:B:2397:LEU:HD23	1:B:2400:LEU:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2649:LYS:HA	1:B:2649:LYS:HZ2	1.58	0.65
1:D:2549:VAL:CG2	1:D:2573:PHE:HD2	2.09	0.65
1:A:2397:LEU:HD23	1:A:2400:LEU:HD12	1.78	0.65
1:A:2434:VAL:O	1:A:2434:VAL:HG12	1.97	0.65
1:A:2720:LYS:HD3	1:D:2725:GLU:OE1	1.97	0.65
1:C:509:LEU:C	1:C:512:GLU:HB3	2.17	0.65
1:C:514:ASN:OD1	1:C:516:LEU:HD13	1.95	0.65
1:C:2657:THR:HA	1:C:2660:GLU:HB2	1.78	0.65
1:B:2190:ALA:C	1:B:2192:HIS:N	2.48	0.65
1:B:2239:LYS:CE	1:B:2240:ILE:HG13	2.27	0.65
1:D:514:ASN:OD1	1:D:516:LEU:HD13	1.96	0.65
1:A:450:SER:HA	1:A:453:LEU:HD12	1.77	0.65
1:A:2191:LYS:O	1:A:2192:HIS:CB	2.40	0.65
1:A:2549:VAL:CG2	1:A:2573:PHE:HD2	2.09	0.65
1:A:2695:LEU:O	1:A:2698:LEU:N	2.30	0.65
1:C:107:ASN:HA	1:C:110:LEU:HD12	1.79	0.65
1:C:2178:GLY:O	1:C:2186:LEU:CG	2.44	0.65
1:B:270:GLN:HE22	1:B:271:SER:H	1.38	0.65
1:B:564:GLN:NE2	1:B:578:PHE:CD2	2.64	0.65
1:D:2695:LEU:N	1:D:2695:LEU:HD12	2.12	0.65
1:A:2178:GLY:O	1:A:2186:LEU:CG	2.44	0.65
1:A:2698:LEU:O	1:A:2698:LEU:HD23	1.97	0.65
1:C:108:ARG:NH1	1:C:108:ARG:O	2.29	0.65
1:C:2696:ARG:HH12	1:B:2696:ARG:HH21	1.35	0.65
1:B:523:LEU:C	1:B:523:LEU:HD22	2.17	0.65
1:D:509:LEU:C	1:D:512:GLU:HB3	2.17	0.65
1:D:2190:ALA:C	1:D:2192:HIS:N	2.48	0.65
1:D:2621:PHE:O	1:D:2624:LYS:CG	2.41	0.65
1:A:2213:PRO:HD3	1:A:2647:LEU:CG	2.24	0.65
1:B:250:PHE:O	1:B:264:LEU:HB2	1.96	0.65
1:B:2239:LYS:HG3	1:B:2613:ILE:HG21	1.77	0.65
1:B:2276:TRP:HB3	1:B:2367:ILE:HD13	1.79	0.65
1:B:2578:ILE:HD12	1:B:2578:ILE:O	1.97	0.65
1:A:523:LEU:HD22	1:A:523:LEU:C	2.17	0.65
1:A:564:GLN:NE2	1:A:578:PHE:CD2	2.64	0.65
1:A:564:GLN:HB2	1:A:574:ILE:HD12	1.74	0.65
1:A:2695:LEU:HD12	1:A:2695:LEU:N	2.12	0.65
1:C:2285:VAL:O	1:C:2289:LEU:HD13	1.97	0.65
1:C:2401:ILE:HG13	1:C:2402:CYS:H	1.61	0.65
1:B:2242:ASP:HA	1:B:2245:LEU:HD12	1.79	0.65
1:D:2213:PRO:HD3	1:D:2647:LEU:CG	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2276:TRP:HB3	1:D:2367:ILE:HD13	1.79	0.65
1:C:89:LEU:O	1:C:92:LEU:HD22	1.87	0.65
1:C:2038:GLU:O	1:C:2042:GLU:N	2.30	0.65
1:C:2189:TYR:O	1:C:2192:HIS:CA	2.46	0.65
1:B:2428:LEU:HD13	1:B:2428:LEU:C	2.18	0.65
1:D:250:PHE:O	1:D:264:LEU:HB2	1.96	0.65
1:D:2428:LEU:C	1:D:2428:LEU:HD13	2.18	0.65
1:A:2239:LYS:CE	1:A:2240:ILE:HG13	2.27	0.64
1:A:2285:VAL:O	1:A:2289:LEU:HD13	1.97	0.64
1:A:2288:ASN:O	1:A:2291:VAL:HG22	1.97	0.64
1:C:441:ARG:HB2	1:C:441:ARG:NH1	2.13	0.64
1:C:514:ASN:O	1:C:515:ILE:C	2.32	0.64
1:C:2412:PHE:HA	1:C:2415:LEU:HD12	1.79	0.64
1:B:450:SER:HA	1:B:453:LEU:HD12	1.77	0.64
1:B:2384:ARG:HB3	1:B:2387:VAL:HG12	1.79	0.64
1:D:441:ARG:HB2	1:D:441:ARG:NH1	2.13	0.64
1:A:509:LEU:C	1:A:512:GLU:HB3	2.17	0.64
1:C:2190:ALA:C	1:C:2192:HIS:N	2.48	0.64
1:C:2276:TRP:HB3	1:C:2367:ILE:HD13	1.78	0.64
1:C:2428:LEU:HD13	1:C:2428:LEU:C	2.18	0.64
1:C:2735:LEU:C	1:C:2735:LEU:HD13	2.16	0.64
1:B:453:LEU:O	1:B:521:LYS:CD	2.46	0.64
1:B:2038:GLU:O	1:B:2042:GLU:N	2.30	0.64
1:B:2730:LYS:C	1:B:2730:LYS:HD3	2.18	0.64
1:D:2178:GLY:O	1:D:2186:LEU:CG	2.44	0.64
1:D:2727:ARG:HA	1:D:2727:ARG:CZ	2.28	0.64
1:A:816:ILE:O	1:A:878:PHE:CA	2.46	0.64
1:A:2401:ILE:HG13	1:A:2402:CYS:H	1.61	0.64
1:A:2578:ILE:HD12	1:A:2578:ILE:O	1.97	0.64
1:B:547:ALA:CB	1:B:548:PRO:CD	2.17	0.64
1:B:2289:LEU:N	1:B:2289:LEU:HD13	2.13	0.64
1:B:2401:ILE:CG1	1:B:2402:CYS:N	2.61	0.64
1:B:2423:ARG:HD2	1:B:2423:ARG:C	2.18	0.64
1:A:2216:CYS:SG	1:A:2646:VAL:HG13	2.35	0.64
1:A:2242:ASP:HA	1:A:2245:LEU:HD12	1.79	0.64
1:A:2384:ARG:HB3	1:A:2387:VAL:HG12	1.79	0.64
1:A:2707:LYS:HG2	1:B:2706:MET:HB3	1.80	0.64
1:C:453:LEU:O	1:C:521:LYS:CD	2.46	0.64
1:C:2288:ASN:O	1:C:2291:VAL:HG22	1.97	0.64
1:C:2695:LEU:HD12	1:C:2695:LEU:N	2.12	0.64
1:B:1680:ARG:O	1:B:1684:THR:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2038:GLU:O	1:A:2042:GLU:N	2.30	0.64
1:A:2730:LYS:HD3	1:A:2730:LYS:C	2.18	0.64
1:C:2612:PHE:CD1	1:C:2638:MET:SD	2.91	0.64
1:B:443:LEU:HD21	1:B:513:GLN:NE2	2.13	0.64
1:B:2288:ASN:O	1:B:2291:VAL:HG22	1.97	0.64
1:D:523:LEU:C	1:D:523:LEU:HD22	2.17	0.64
1:D:816:ILE:O	1:D:878:PHE:CA	2.46	0.64
1:D:1680:ARG:O	1:D:1684:THR:N	2.31	0.64
1:D:2284:ALA:O	1:D:2287:MET:CB	2.41	0.64
1:D:2448:ALA:CB	1:D:2581:VAL:HG21	2.27	0.64
1:A:453:LEU:CA	1:A:521:LYS:HZ2	2.05	0.64
1:A:2189:TYR:C	1:A:2192:HIS:H	2.00	0.64
1:A:2288:ASN:ND2	1:A:2417:LEU:CB	2.51	0.64
1:A:2448:ALA:CB	1:A:2581:VAL:HG21	2.26	0.64
1:C:237:GLY:O	1:C:283:GLU:CG	2.45	0.64
1:C:646:PRO:O	1:C:650:GLU:N	2.24	0.64
1:C:816:ILE:O	1:C:878:PHE:CA	2.46	0.64
1:C:2434:VAL:O	1:C:2434:VAL:HG12	1.97	0.64
1:C:2448:ALA:CB	1:C:2581:VAL:HG21	2.27	0.64
1:C:2727:ARG:HA	1:C:2727:ARG:CZ	2.28	0.64
1:B:2239:LYS:HE2	1:B:2240:ILE:HG13	1.77	0.64
1:B:2239:LYS:HZ2	1:B:2677:ARG:NE	1.94	0.64
1:B:2448:ALA:CB	1:B:2581:VAL:HG21	2.26	0.64
1:B:2698:LEU:HD23	1:B:2698:LEU:O	1.97	0.64
1:D:237:GLY:O	1:D:283:GLU:CG	2.46	0.64
1:D:516:LEU:N	1:D:516:LEU:HD12	2.12	0.64
1:D:1995:THR:CA	1:D:1998:ASN:O	2.46	0.64
1:D:2348:VAL:HG21	1:D:2353:THR:HG22	1.78	0.64
1:A:1508:VAL:CA	1:A:1536:CYS:CA	2.76	0.64
1:A:2276:TRP:HB3	1:A:2367:ILE:HD13	1.78	0.64
1:A:2727:ARG:HA	1:A:2727:ARG:CZ	2.27	0.64
1:C:250:PHE:O	1:C:264:LEU:HB2	1.96	0.64
1:C:443:LEU:CD2	1:C:513:GLN:NE2	2.61	0.64
1:C:2191:LYS:O	1:C:2192:HIS:CB	2.40	0.64
1:C:2239:LYS:CE	1:C:2240:ILE:HG13	2.27	0.64
1:C:2576:MET:HE1	1:C:2580:ILE:CG1	2.17	0.64
1:B:2695:LEU:O	1:B:2698:LEU:N	2.30	0.64
1:B:2727:ARG:HA	1:B:2727:ARG:CZ	2.27	0.64
1:D:2189:TYR:C	1:D:2192:HIS:H	2.00	0.64
1:D:2612:PHE:CD1	1:D:2638:MET:SD	2.91	0.64
1:A:2032:LEU:O	1:A:2036:THR:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2189:TYR:O	1:A:2192:HIS:CA	2.46	0.64
1:A:2345:ILE:O	1:A:2348:VAL:HG12	1.86	0.64
1:A:2401:ILE:CG1	1:A:2402:CYS:N	2.61	0.64
1:C:270:GLN:O	1:C:272:ALA:C	2.37	0.64
1:C:1680:ARG:O	1:C:1684:THR:N	2.31	0.64
1:C:2289:LEU:N	1:C:2289:LEU:HD13	2.13	0.64
1:B:73:TRP:O	1:B:74:LYS:C	2.32	0.64
1:D:170:ARG:NH1	1:D:180:ASP:OD1	2.31	0.64
1:D:2216:CYS:SG	1:D:2646:VAL:HG13	2.35	0.64
1:A:170:ARG:NH1	1:A:180:ASP:OD1	2.31	0.64
1:A:567:TYR:CD1	2:A:2801:JYP:O8	2.51	0.64
1:A:2284:ALA:O	1:A:2287:MET:CB	2.41	0.64
1:A:2289:LEU:N	1:A:2289:LEU:HD13	2.13	0.64
1:A:2612:PHE:CD1	1:A:2638:MET:SD	2.91	0.64
1:A:2696:ARG:HH22	1:B:2696:ARG:HH22	1.46	0.64
1:C:2401:ILE:CG1	1:C:2402:CYS:N	2.61	0.64
1:C:2698:LEU:O	1:C:2698:LEU:HD23	1.97	0.64
1:B:270:GLN:O	1:B:272:ALA:C	2.37	0.64
1:B:275:ALA:CB	2:B:2801:JYP:N4	2.46	0.64
1:B:453:LEU:CA	1:B:521:LYS:HZ2	2.05	0.64
1:B:509:LEU:C	1:B:512:GLU:HB3	2.17	0.64
1:B:2058:HIS:O	1:B:2062:GLY:N	2.20	0.64
1:D:107:ASN:HA	1:D:110:LEU:HD12	1.79	0.64
1:D:2412:PHE:HA	1:D:2415:LEU:HD12	1.79	0.64
1:D:2571:LEU:O	1:D:2575:PHE:N	2.31	0.64
1:D:2698:LEU:O	1:D:2698:LEU:HD23	1.97	0.64
1:A:443:LEU:HD21	1:A:513:GLN:NE2	2.13	0.64
1:A:571:GLN:HG3	1:A:574:ILE:CD1	2.28	0.64
1:A:2428:LEU:C	1:A:2428:LEU:HD13	2.18	0.64
1:C:270:GLN:HE22	1:C:271:SER:H	1.37	0.64
1:C:2285:VAL:O	1:C:2288:ASN:N	2.31	0.64
1:C:2560:GLU:CG	1:C:2563:PHE:HE2	1.79	0.64
1:B:2239:LYS:HZ2	1:B:2677:ARG:HE	1.46	0.64
1:B:2412:PHE:HA	1:B:2415:LEU:HD12	1.79	0.64
1:B:2434:VAL:HG12	1:B:2434:VAL:O	1.97	0.64
1:D:1508:VAL:CA	1:D:1536:CYS:CA	2.76	0.64
1:D:2189:TYR:O	1:D:2192:HIS:CA	2.46	0.64
1:D:2285:VAL:O	1:D:2288:ASN:N	2.31	0.64
1:D:2626:VAL:CG1	1:D:2627:THR:N	1.88	0.64
1:D:2695:LEU:O	1:D:2698:LEU:N	2.30	0.64
1:A:107:ASN:HA	1:A:110:LEU:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:GLY:O	1:A:283:GLU:CG	2.46	0.63
1:A:441:ARG:HB2	1:A:441:ARG:NH1	2.13	0.63
1:A:1995:THR:CA	1:A:1998:ASN:O	2.46	0.63
1:A:2204:THR:H	1:A:2679:ARG:NH1	1.96	0.63
1:A:2560:GLU:C	1:A:2563:PHE:HB2	2.16	0.63
1:C:488:THR:HB	1:C:559:VAL:HG13	1.80	0.63
1:C:547:ALA:HB1	1:C:548:PRO:HD2	0.67	0.63
1:C:567:TYR:CD1	2:C:2801:JYP:O8	2.51	0.63
2:C:2801:JYP:O7	2:C:2801:JYP:O12	2.17	0.63
1:B:237:GLY:O	1:B:283:GLU:CG	2.46	0.63
1:B:443:LEU:CD2	1:B:513:GLN:NE2	2.61	0.63
1:B:816:ILE:O	1:B:878:PHE:CA	2.46	0.63
1:B:2285:VAL:O	1:B:2289:LEU:HD13	1.97	0.63
1:B:2573:PHE:O	1:B:2574:PHE:C	2.29	0.63
1:B:2695:LEU:N	1:B:2695:LEU:HD12	2.12	0.63
1:D:567:TYR:CD1	2:D:2801:JYP:O8	2.51	0.63
1:D:2032:LEU:O	1:D:2036:THR:N	2.31	0.63
1:D:2038:GLU:O	1:D:2042:GLU:N	2.30	0.63
1:D:2730:LYS:HD3	1:D:2730:LYS:C	2.18	0.63
1:C:453:LEU:CA	1:C:521:LYS:HZ3	2.11	0.63
1:C:2578:ILE:HD12	1:C:2578:ILE:O	1.97	0.63
1:C:2730:LYS:C	1:C:2730:LYS:HD3	2.18	0.63
1:B:170:ARG:NH1	1:B:180:ASP:OD1	2.31	0.63
1:B:441:ARG:HB2	1:B:441:ARG:NH1	2.13	0.63
1:B:1995:THR:CA	1:B:1998:ASN:O	2.46	0.63
1:B:2189:TYR:C	1:B:2192:HIS:H	2.00	0.63
1:B:2204:THR:H	1:B:2679:ARG:NH1	1.97	0.63
1:D:2288:ASN:ND2	1:D:2417:LEU:CB	2.51	0.63
1:D:2349:GLY:C	1:D:2351:GLN:N	2.50	0.63
1:D:2649:LYS:C	1:D:2650:VAL:CG2	2.54	0.63
1:D:2657:THR:HA	1:D:2660:GLU:HB2	1.78	0.63
1:A:453:LEU:O	1:A:521:LYS:CD	2.46	0.63
1:A:2425:GLU:C	1:A:2428:LEU:HB3	2.19	0.63
1:C:2204:THR:H	1:C:2679:ARG:NH1	1.96	0.63
1:B:269:ARG:HB3	2:B:2801:JYP:C3	2.29	0.63
1:B:2219:LEU:CD2	1:B:2254:MET:HE1	2.28	0.63
1:B:2713:SER:HA	1:B:2716:LEU:HD11	1.80	0.63
1:D:2242:ASP:HA	1:D:2245:LEU:HD12	1.79	0.63
1:D:2273:MET:CA	1:D:2276:TRP:CD1	2.71	0.63
1:D:2285:VAL:O	1:D:2289:LEU:HD13	1.97	0.63
1:D:2578:ILE:HD12	1:D:2578:ILE:O	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2573:PHE:O	1:A:2574:PHE:C	2.29	0.63
1:A:2707:LYS:CG	1:B:2706:MET:HB3	2.28	0.63
1:C:1619:VAL:C	1:C:1621:ALA:N	2.41	0.63
1:C:2285:VAL:HG23	1:C:2288:ASN:ND2	2.14	0.63
1:C:2348:VAL:HG12	1:C:2353:THR:HB	1.72	0.63
1:B:1508:VAL:CA	1:B:1536:CYS:CA	2.76	0.63
1:D:443:LEU:CD2	1:D:513:GLN:NE2	2.61	0.63
1:D:453:LEU:O	1:D:521:LYS:CD	2.46	0.63
1:D:547:ALA:HB1	1:D:548:PRO:HD2	0.67	0.63
1:D:2204:THR:H	1:D:2679:ARG:NH1	1.97	0.63
1:D:2216:CYS:HG	1:D:2646:VAL:CG2	2.07	0.63
1:D:2285:VAL:HG23	1:D:2288:ASN:ND2	2.14	0.63
1:D:2289:LEU:N	1:D:2289:LEU:HD13	2.13	0.63
1:A:92:LEU:HD22	1:A:92:LEU:N	2.07	0.63
1:A:443:LEU:CD2	1:A:513:GLN:NE2	2.61	0.63
1:A:2201:LEU:CA	1:A:2662:TYR:OH	2.46	0.63
1:A:2713:SER:HA	1:A:2716:LEU:HD11	1.80	0.63
1:C:443:LEU:HD21	1:C:513:GLN:NE2	2.13	0.63
1:C:819:TYR:H	1:C:877:GLY:CA	2.11	0.63
1:C:1508:VAL:CA	1:C:1536:CYS:CA	2.76	0.63
1:C:2189:TYR:C	1:C:2192:HIS:H	2.00	0.63
1:C:2242:ASP:HA	1:C:2245:LEU:HD12	1.79	0.63
1:C:2411:PHE:O	1:C:2413:TYR:HD2	1.82	0.63
1:B:488:THR:HB	1:B:559:VAL:HG13	1.80	0.63
1:B:819:TYR:H	1:B:877:GLY:CA	2.11	0.63
1:B:2612:PHE:CD1	1:B:2638:MET:SD	2.91	0.63
1:D:103:ASN:HA	1:D:106:GLU:CD	2.19	0.63
1:D:441:ARG:HH11	1:D:441:ARG:HG3	1.63	0.63
1:D:2035:GLN:O	1:D:2039:SER:N	2.32	0.63
1:A:2034:ASN:O	1:A:2038:GLU:N	2.30	0.63
1:A:2412:PHE:HA	1:A:2415:LEU:HD12	1.79	0.63
1:B:516:LEU:N	1:B:516:LEU:HD12	2.12	0.63
1:B:2035:GLN:O	1:B:2039:SER:N	2.32	0.63
1:B:2189:TYR:O	1:B:2192:HIS:CA	2.46	0.63
1:D:514:ASN:O	1:D:515:ILE:C	2.32	0.63
1:D:819:TYR:H	1:D:877:GLY:CA	2.11	0.63
1:D:2201:LEU:CA	1:D:2662:TYR:OH	2.46	0.63
1:C:170:ARG:NH1	1:C:180:ASP:OD1	2.31	0.63
1:C:269:ARG:HB3	2:C:2801:JYP:C3	2.29	0.63
1:C:1995:THR:CA	1:C:1998:ASN:O	2.46	0.63
1:B:92:LEU:HD22	1:B:92:LEU:N	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2411:PHE:O	1:B:2413:TYR:HD2	1.82	0.63
1:D:2649:LYS:HA	1:D:2649:LYS:HZ2	1.62	0.63
1:A:12:GLY:H	1:A:60:LEU:HB2	1.64	0.63
1:A:269:ARG:HB3	2:A:2801:JYP:C3	2.29	0.63
1:C:2281:PHE:CB	1:C:2420:LEU:HD22	2.29	0.63
1:C:2384:ARG:HB3	1:C:2387:VAL:HG12	1.79	0.63
1:C:2532:LEU:HD22	1:D:2295:TYR:CD1	2.34	0.63
1:B:103:ASN:HA	1:B:106:GLU:CD	2.19	0.63
1:B:2032:LEU:O	1:B:2036:THR:N	2.31	0.63
1:B:2372:PHE:CD2	1:B:2395:HIS:ND1	2.59	0.63
1:D:564:GLN:HB2	1:D:574:ILE:HD12	1.74	0.63
1:D:2288:ASN:O	1:D:2291:VAL:HG22	1.97	0.63
1:A:2035:GLN:O	1:A:2039:SER:N	2.32	0.63
1:A:2285:VAL:O	1:A:2288:ASN:N	2.31	0.63
1:A:2639:TRP:HA	1:A:2642:LEU:HD22	1.81	0.63
1:C:2035:GLN:O	1:C:2039:SER:N	2.32	0.63
1:C:2345:ILE:C	1:C:2348:VAL:CG1	2.57	0.63
1:B:2201:LEU:CA	1:B:2662:TYR:OH	2.46	0.63
1:B:2285:VAL:O	1:B:2288:ASN:N	2.31	0.63
1:B:2560:GLU:C	1:B:2563:PHE:HB2	2.17	0.63
1:D:968:MET:O	1:D:972:LEU:N	2.32	0.63
1:D:2401:ILE:HG13	1:D:2402:CYS:H	1.61	0.63
1:A:103:ASN:HA	1:A:106:GLU:CD	2.19	0.62
1:A:582:GLN:NE2	1:A:582:GLN:O	2.32	0.62
1:A:2348:VAL:HG11	1:A:2353:THR:HG1	1.60	0.62
1:C:2586:PHE:CG	1:B:2583:ASN:ND2	2.66	0.62
1:B:509:LEU:CA	1:B:512:GLU:HB3	2.29	0.62
1:B:567:TYR:CD1	2:B:2801:JYP:O8	2.51	0.62
1:D:582:GLN:NE2	1:D:582:GLN:O	2.32	0.62
1:D:2384:ARG:HB3	1:D:2387:VAL:HG12	1.79	0.62
1:D:2401:ILE:CG1	1:D:2402:CYS:N	2.61	0.62
1:A:275:ALA:N	2:A:2801:JYP:N4	2.47	0.62
1:A:509:LEU:CA	1:A:512:GLU:HB3	2.29	0.62
1:A:2285:VAL:HG23	1:A:2288:ASN:ND2	2.14	0.62
1:A:2447:LEU:HD13	1:B:2427:LEU:HD11	1.81	0.62
1:A:2571:LEU:O	1:A:2575:PHE:N	2.31	0.62
1:C:2348:VAL:HG21	1:C:2353:THR:HG22	1.78	0.62
1:C:2586:PHE:CD1	1:B:2583:ASN:ND2	2.67	0.62
1:B:2285:VAL:HG23	1:B:2288:ASN:ND2	2.14	0.62
1:D:269:ARG:HB3	2:D:2801:JYP:C3	2.29	0.62
1:D:270:GLN:O	1:D:272:ALA:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:443:LEU:HD21	1:D:513:GLN:NE2	2.13	0.62
1:D:2425:GLU:C	1:D:2428:LEU:HB3	2.19	0.62
1:A:488:THR:HB	1:A:559:VAL:HG13	1.80	0.62
1:A:516:LEU:N	1:A:516:LEU:HD12	2.12	0.62
1:A:2348:VAL:HB	1:A:2353:THR:HG22	1.81	0.62
1:A:2372:PHE:CD2	1:A:2395:HIS:ND1	2.59	0.62
1:C:275:ALA:N	2:C:2801:JYP:N4	2.47	0.62
1:C:2201:LEU:HD12	1:C:2203:ARG:HH22	1.64	0.62
1:C:2566:ARG:HH11	1:C:2566:ARG:CG	2.13	0.62
1:C:2616:LEU:HD11	1:C:2621:PHE:CE2	2.35	0.62
1:C:2713:SER:HA	1:C:2716:LEU:HD11	1.80	0.62
1:B:582:GLN:O	1:B:582:GLN:NE2	2.32	0.62
1:D:275:ALA:N	2:D:2801:JYP:N4	2.47	0.62
1:D:2423:ARG:HD2	1:D:2423:ARG:C	2.18	0.62
1:D:2560:GLU:C	1:D:2563:PHE:HB2	2.17	0.62
1:C:103:ASN:HA	1:C:106:GLU:CD	2.19	0.62
1:C:509:LEU:CA	1:C:512:GLU:HB3	2.29	0.62
1:C:520:PHE:O	1:C:520:PHE:HD1	1.83	0.62
1:C:1807:LEU:O	1:C:1811:LEU:N	2.32	0.62
1:C:2281:PHE:HB2	1:C:2420:LEU:HD13	1.81	0.62
1:C:2396:LEU:HD22	1:C:2396:LEU:C	2.20	0.62
1:B:2425:GLU:C	1:B:2428:LEU:HB3	2.19	0.62
1:B:2639:TRP:HA	1:B:2642:LEU:HD22	1.81	0.62
1:A:263:PHE:CE2	1:A:265:ARG:NE	2.58	0.62
1:A:270:GLN:O	1:A:272:ALA:C	2.37	0.62
1:A:520:PHE:HD1	1:A:520:PHE:O	1.83	0.62
1:A:819:TYR:H	1:A:877:GLY:CA	2.11	0.62
1:A:2372:PHE:CZ	1:A:2392:PHE:HB3	2.34	0.62
1:B:2201:LEU:HD12	1:B:2203:ARG:HH22	1.64	0.62
1:D:270:GLN:HE22	1:D:271:SER:H	1.37	0.62
1:D:488:THR:HB	1:D:559:VAL:HG13	1.80	0.62
1:D:2713:SER:HA	1:D:2716:LEU:HD11	1.80	0.62
1:C:441:ARG:HG3	1:C:441:ARG:HH11	1.64	0.62
1:C:582:GLN:NE2	1:C:582:GLN:O	2.32	0.62
1:B:520:PHE:O	1:B:520:PHE:HD1	1.83	0.62
1:B:569:LYS:CE	2:B:2801:JYP:C10	2.72	0.62
1:B:2034:ASN:O	1:B:2038:GLU:N	2.30	0.62
1:D:32:LEU:CB	1:D:445:PHE:CE2	2.82	0.62
1:D:1126:VAL:O	1:D:1130:GLU:N	2.27	0.62
1:D:2411:PHE:O	1:D:2413:TYR:HD2	1.82	0.62
1:D:2639:TRP:HA	1:D:2642:LEU:HD22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:LEU:HB3	1:A:521:LYS:HZ3	1.65	0.62
1:A:554:ARG:HH12	1:A:585:ILE:HD13	1.65	0.62
1:A:569:LYS:CE	2:A:2801:JYP:C10	2.72	0.62
1:C:2434:VAL:CG1	1:C:2589:ILE:HD12	2.30	0.62
1:B:12:GLY:H	1:B:60:LEU:HB2	1.64	0.62
1:B:441:ARG:HH11	1:B:441:ARG:HG3	1.63	0.62
1:B:2642:LEU:HD13	1:B:2642:LEU:N	2.15	0.62
1:D:2372:PHE:CZ	1:D:2392:PHE:HB3	2.34	0.62
1:D:2578:ILE:HG23	1:D:2579:ILE:HG12	1.82	0.62
1:C:2201:LEU:CA	1:C:2662:TYR:OH	2.46	0.62
1:B:447:ASN:HB3	1:B:513:GLN:HG3	1.82	0.62
1:B:547:ALA:HB1	1:B:548:PRO:HD2	0.67	0.62
1:B:2213:PRO:N	1:B:2647:LEU:HD13	2.15	0.62
1:B:2281:PHE:CB	1:B:2420:LEU:HD22	2.29	0.62
1:B:2571:LEU:O	1:B:2575:PHE:N	2.31	0.62
1:B:2616:LEU:HD11	1:B:2621:PHE:CE2	2.35	0.62
2:B:2801:JYP:O7	2:B:2801:JYP:O12	2.17	0.62
1:D:1807:LEU:O	1:D:1811:LEU:N	2.32	0.62
1:D:2213:PRO:N	1:D:2647:LEU:HD13	2.15	0.62
1:D:2649:LYS:HA	1:D:2649:LYS:HZ3	1.62	0.62
1:A:32:LEU:CB	1:A:445:PHE:CE2	2.82	0.62
1:A:453:LEU:CB	1:A:521:LYS:HZ3	2.13	0.62
1:A:525:ALA:CB	1:A:526:PRO:HD2	2.30	0.62
1:A:2201:LEU:HD12	1:A:2203:ARG:HH22	1.64	0.62
1:A:2281:PHE:HB2	1:A:2420:LEU:HD13	1.81	0.62
1:A:2616:LEU:HD11	1:A:2621:PHE:CE2	2.35	0.62
2:A:2801:JYP:O7	2:A:2801:JYP:O12	2.17	0.62
1:C:12:GLY:H	1:C:60:LEU:HB2	1.64	0.62
1:C:32:LEU:CB	1:C:445:PHE:CE2	2.82	0.62
1:C:564:GLN:NE2	1:C:578:PHE:CD2	2.64	0.62
1:C:2032:LEU:O	1:C:2036:THR:N	2.31	0.62
1:C:2103:ARG:C	1:C:2105:ASP:N	2.53	0.62
1:C:2579:ILE:O	1:C:2580:ILE:O	2.18	0.62
1:B:32:LEU:CB	1:B:445:PHE:CE2	2.82	0.62
1:B:519:ILE:HD11	1:B:560:LEU:HD22	1.82	0.62
1:B:547:ALA:HB3	1:B:548:PRO:HD2	1.68	0.62
1:B:582:GLN:CA	1:B:582:GLN:HE21	2.12	0.62
1:D:453:LEU:HB3	1:D:521:LYS:HZ3	1.65	0.62
1:D:520:PHE:HD1	1:D:520:PHE:O	1.83	0.62
1:D:2281:PHE:HB2	1:D:2420:LEU:HD13	1.81	0.62
1:D:2345:ILE:C	1:D:2348:VAL:CG1	2.57	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2357:LEU:HD13	1:D:2360:PHE:HE1	1.65	0.62
1:D:2616:LEU:HD11	1:D:2621:PHE:CE2	2.35	0.62
1:A:968:MET:O	1:A:972:LEU:N	2.32	0.62
1:C:1334:LEU:O	1:C:1337:SER:O	2.17	0.62
1:C:2423:ARG:HD2	1:C:2423:ARG:C	2.18	0.62
1:C:2642:LEU:HD13	1:C:2642:LEU:N	2.15	0.62
1:B:2357:LEU:HD13	1:B:2360:PHE:HE1	1.65	0.62
1:B:2372:PHE:CZ	1:B:2392:PHE:HB3	2.34	0.62
1:D:2103:ARG:C	1:D:2105:ASP:N	2.53	0.62
1:D:2201:LEU:HD12	1:D:2203:ARG:HH22	1.64	0.62
1:D:2288:ASN:HA	1:D:2413:TYR:CB	2.28	0.62
1:D:2396:LEU:HD22	1:D:2396:LEU:C	2.20	0.62
1:A:2695:LEU:O	1:A:2696:ARG:C	2.38	0.61
1:C:87:VAL:HG23	1:C:88:LEU:HD12	1.82	0.61
1:C:582:GLN:CA	1:C:582:GLN:HE21	2.12	0.61
1:C:2030:VAL:O	1:C:2034:ASN:N	2.32	0.61
1:C:2213:PRO:N	1:C:2647:LEU:HD13	2.15	0.61
1:C:2372:PHE:CZ	1:C:2392:PHE:HB3	2.34	0.61
1:C:2571:LEU:O	1:C:2575:PHE:N	2.31	0.61
1:C:2695:LEU:O	1:C:2698:LEU:N	2.30	0.61
1:B:453:LEU:HB3	1:B:521:LYS:HZ3	1.65	0.61
1:D:571:GLN:HG3	1:D:574:ILE:CD1	2.28	0.61
1:A:582:GLN:CA	1:A:582:GLN:HE21	2.12	0.61
1:A:2281:PHE:CB	1:A:2420:LEU:HD22	2.29	0.61
1:A:2411:PHE:O	1:A:2413:TYR:HD2	1.82	0.61
1:C:447:ASN:HB3	1:C:513:GLN:HG3	1.82	0.61
1:C:2560:GLU:C	1:C:2563:PHE:HB2	2.16	0.61
1:B:1334:LEU:O	1:B:1337:SER:O	2.18	0.61
1:D:2695:LEU:O	1:D:2696:ARG:C	2.38	0.61
1:A:87:VAL:HG23	1:A:88:LEU:HD12	1.82	0.61
1:A:165:PRO:HG2	1:A:168:LYS:HA	1.82	0.61
1:A:2195:GLN:HA	1:A:2209:VAL:HG12	1.83	0.61
1:A:2578:ILE:HG23	1:A:2579:ILE:HG12	1.82	0.61
1:C:77:LYS:HB2	1:C:78:PRO:HD2	1.82	0.61
1:C:519:ILE:HD11	1:C:560:LEU:HD22	1.82	0.61
1:C:2378:THR:HG23	1:C:2378:THR:O	2.00	0.61
1:C:2425:GLU:C	1:C:2428:LEU:HB3	2.19	0.61
1:B:275:ALA:N	2:B:2801:JYP:N4	2.47	0.61
1:B:2538:VAL:O	1:B:2542:GLY:N	2.33	0.61
1:D:1334:LEU:O	1:D:1337:SER:O	2.18	0.61
1:D:2243:PHE:HZ	1:D:2638:MET:CB	2.03	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2345:ILE:CD1	1:D:2356:LEU:HD23	2.16	0.61
1:D:2362:VAL:CG1	1:D:2363:CYS:N	2.63	0.61
1:D:2434:VAL:CG1	1:D:2589:ILE:HD12	2.30	0.61
1:A:547:ALA:HB1	1:A:548:PRO:HD2	0.67	0.61
1:A:2362:VAL:CG1	1:A:2363:CYS:N	2.63	0.61
1:A:2538:VAL:O	1:A:2542:GLY:N	2.33	0.61
1:B:554:ARG:HH12	1:B:585:ILE:HD13	1.65	0.61
1:B:774:PRO:O	1:B:778:ARG:N	2.33	0.61
1:B:2558:LYS:O	1:B:2560:GLU:HG3	2.00	0.61
1:B:2578:ILE:HG23	1:B:2579:ILE:HG12	1.82	0.61
1:B:2695:LEU:O	1:B:2696:ARG:C	2.38	0.61
1:D:88:LEU:C	1:D:92:LEU:HD11	2.01	0.61
1:D:509:LEU:CA	1:D:512:GLU:HB3	2.29	0.61
1:D:2030:VAL:O	1:D:2034:ASN:N	2.32	0.61
1:D:2195:GLN:HA	1:D:2209:VAL:HG12	1.83	0.61
2:D:2801:JYP:O7	2:D:2801:JYP:O12	2.16	0.61
1:A:2357:LEU:HD13	1:A:2360:PHE:HE1	1.65	0.61
1:C:450:SER:CA	1:C:453:LEU:HG	2.31	0.61
1:C:2021:LEU:C	1:C:2023:LEU:N	2.54	0.61
1:C:2362:VAL:CG1	1:C:2363:CYS:N	2.63	0.61
1:B:450:SER:CA	1:B:453:LEU:HG	2.31	0.61
1:B:2239:LYS:CG	1:B:2240:ILE:N	2.54	0.61
1:D:2581:VAL:HA	1:D:2584:LEU:HB2	1.82	0.61
1:D:2642:LEU:HD13	1:D:2642:LEU:N	2.15	0.61
1:A:2558:LYS:O	1:A:2560:GLU:HG3	2.00	0.61
1:A:2581:VAL:HA	1:A:2584:LEU:HB2	1.82	0.61
1:C:547:ALA:HB3	1:C:548:PRO:HD2	1.68	0.61
1:C:1126:VAL:O	1:C:1130:GLU:N	2.27	0.61
1:C:2284:ALA:O	1:C:2287:MET:CB	2.41	0.61
1:C:2288:ASN:HA	1:C:2413:TYR:CB	2.28	0.61
1:B:453:LEU:CB	1:B:521:LYS:HZ3	2.13	0.61
1:D:2036:THR:O	1:D:2040:LEU:N	2.33	0.61
1:D:2106:SER:O	1:D:2110:GLU:N	2.34	0.61
1:D:2239:LYS:HZ3	1:D:2677:ARG:CD	2.11	0.61
1:D:2538:VAL:O	1:D:2542:GLY:N	2.33	0.61
1:A:441:ARG:HH11	1:A:441:ARG:HG3	1.63	0.61
1:A:447:ASN:HB3	1:A:513:GLN:HG3	1.82	0.61
1:A:517:LYS:HA	1:A:517:LYS:HZ2	1.64	0.61
1:C:582:GLN:HE21	1:C:582:GLN:HA	1.66	0.61
1:C:2058:HIS:O	1:C:2062:GLY:N	2.20	0.61
1:C:2357:LEU:HD13	1:C:2360:PHE:HE1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2695:LEU:O	1:C:2696:ARG:C	2.38	0.61
1:B:77:LYS:HB2	1:B:78:PRO:HD2	1.81	0.61
1:B:2289:LEU:CD1	1:B:2289:LEU:H	2.14	0.61
1:B:2566:ARG:HH11	1:B:2566:ARG:CG	2.13	0.61
1:B:2622:ASP:CG	1:B:2628:PHE:CD1	2.74	0.61
1:D:77:LYS:HB2	1:D:78:PRO:HD2	1.82	0.61
1:D:165:PRO:HG2	1:D:168:LYS:HA	1.82	0.61
1:D:2378:THR:HG23	1:D:2378:THR:O	2.00	0.61
1:A:1680:ARG:O	1:A:1684:THR:N	2.31	0.61
1:A:2103:ARG:C	1:A:2105:ASP:N	2.53	0.61
1:A:2558:LYS:HE3	1:B:2528:CYS:HA	1.82	0.61
1:C:870:ALA:O	1:C:874:ILE:N	2.34	0.61
1:C:2195:GLN:HA	1:C:2209:VAL:HG12	1.83	0.61
1:C:2639:TRP:HA	1:C:2642:LEU:HD22	1.81	0.61
1:C:2713:SER:OG	1:B:2715:GLN:NE2	2.33	0.61
1:B:2396:LEU:HD22	1:B:2396:LEU:C	2.20	0.61
1:B:2434:VAL:CG1	1:B:2589:ILE:HD12	2.30	0.61
1:B:2692:GLN:O	1:B:2692:GLN:HG2	2.00	0.61
1:D:582:GLN:HE21	1:D:582:GLN:CA	2.12	0.61
1:A:819:TYR:H	1:A:877:GLY:N	1.99	0.61
1:A:870:ALA:O	1:A:874:ILE:N	2.34	0.61
1:C:2700:GLU:OE1	1:D:2699:GLN:HG3	2.00	0.61
1:B:87:VAL:HG23	1:B:88:LEU:HD12	1.82	0.61
1:B:653:CYS:O	1:B:657:LEU:N	2.31	0.61
1:B:2195:GLN:HA	1:B:2209:VAL:HG12	1.83	0.61
1:B:2653:SER:OG	1:B:2664:ALA:CB	2.49	0.61
1:D:12:GLY:H	1:D:60:LEU:HB2	1.64	0.61
1:D:2110:GLU:O	1:D:2114:TYR:N	2.34	0.61
1:A:77:LYS:HB2	1:A:78:PRO:HD2	1.82	0.61
1:A:92:LEU:CD2	1:A:92:LEU:H	1.96	0.61
1:A:519:ILE:HD11	1:A:560:LEU:HD22	1.82	0.61
1:A:2036:THR:O	1:A:2040:LEU:N	2.33	0.61
1:A:2213:PRO:CD	1:A:2647:LEU:CG	2.79	0.61
1:A:2213:PRO:N	1:A:2647:LEU:HD13	2.15	0.61
1:A:2434:VAL:CG1	1:A:2589:ILE:HD12	2.30	0.61
1:A:2566:ARG:HH11	1:A:2566:ARG:CG	2.13	0.61
1:C:819:TYR:H	1:C:877:GLY:N	1.99	0.61
1:C:2653:SER:OG	1:C:2664:ALA:CB	2.49	0.61
1:B:525:ALA:HB3	1:B:526:PRO:CD	2.30	0.61
1:B:819:TYR:H	1:B:877:GLY:N	1.99	0.61
1:B:2281:PHE:HB2	1:B:2420:LEU:HD13	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:87:VAL:HG23	1:D:88:LEU:HD12	1.82	0.61
1:D:450:SER:CA	1:D:453:LEU:HG	2.31	0.61
1:D:453:LEU:C	1:D:521:LYS:HZ2	2.04	0.61
1:D:2566:ARG:HH11	1:D:2566:ARG:CG	2.13	0.61
1:D:2579:ILE:O	1:D:2580:ILE:O	2.18	0.61
1:A:2425:GLU:HA	1:A:2428:LEU:CB	2.31	0.60
1:C:525:ALA:HB3	1:C:526:PRO:CD	2.30	0.60
1:C:554:ARG:HH12	1:C:585:ILE:HD13	1.65	0.60
1:C:2219:LEU:CD2	1:C:2254:MET:CE	2.77	0.60
1:D:2281:PHE:CB	1:D:2420:LEU:HD22	2.29	0.60
1:D:2692:GLN:O	1:D:2692:GLN:HG2	2.01	0.60
1:A:1334:LEU:O	1:A:1337:SER:O	2.18	0.60
1:A:2106:SER:O	1:A:2110:GLU:N	2.34	0.60
1:A:2289:LEU:CD1	1:A:2289:LEU:H	2.14	0.60
1:C:2581:VAL:HA	1:C:2584:LEU:HB2	1.82	0.60
1:C:2656:TYR:O	1:C:2660:GLU:CG	2.50	0.60
1:B:968:MET:O	1:B:972:LEU:N	2.32	0.60
1:D:554:ARG:HH12	1:D:585:ILE:HD13	1.65	0.60
1:D:774:PRO:O	1:D:778:ARG:N	2.33	0.60
1:D:2021:LEU:C	1:D:2023:LEU:N	2.54	0.60
1:D:2425:GLU:HA	1:D:2428:LEU:CB	2.31	0.60
1:A:144:LYS:CB	1:B:1302:HIS:O	2.50	0.60
1:A:2396:LEU:HD22	1:A:2396:LEU:C	2.20	0.60
1:C:516:LEU:N	1:C:516:LEU:HD12	2.12	0.60
1:C:2289:LEU:CD1	1:C:2289:LEU:H	2.14	0.60
1:C:2349:GLY:C	1:C:2351:GLN:N	2.50	0.60
1:B:525:ALA:CB	1:B:526:PRO:HD2	2.30	0.60
1:B:1807:LEU:O	1:B:1811:LEU:N	2.33	0.60
1:B:2288:ASN:ND2	1:B:2417:LEU:CB	2.51	0.60
1:B:2362:VAL:CG1	1:B:2363:CYS:N	2.63	0.60
1:B:2433:SER:HA	1:B:2592:THR:CG2	2.32	0.60
1:D:870:ALA:O	1:D:874:ILE:N	2.34	0.60
1:D:2622:ASP:CG	1:D:2628:PHE:CD1	2.74	0.60
1:D:2683:LEU:HD13	1:D:2683:LEU:N	2.17	0.60
1:A:582:GLN:HE21	1:A:582:GLN:HA	1.66	0.60
1:A:2622:ASP:CG	1:A:2628:PHE:CD1	2.74	0.60
1:A:2706:MET:C	1:D:2707:LYS:HE2	2.22	0.60
1:C:270:GLN:O	1:C:272:ALA:CA	2.50	0.60
1:C:2365:LYS:HE2	1:C:2395:HIS:O	2.02	0.60
1:C:2538:VAL:O	1:C:2542:GLY:N	2.33	0.60
1:C:2578:ILE:HG23	1:C:2579:ILE:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2583:ASN:HD22	1:D:2586:PHE:CA	2.14	0.60
1:C:2692:GLN:HG2	1:C:2692:GLN:O	2.01	0.60
1:B:270:GLN:O	1:B:272:ALA:CA	2.50	0.60
1:B:2103:ARG:C	1:B:2105:ASP:N	2.53	0.60
1:B:2110:GLU:O	1:B:2114:TYR:N	2.34	0.60
1:B:2713:SER:O	1:B:2716:LEU:HD21	1.95	0.60
1:D:519:ILE:HD11	1:D:560:LEU:HD22	1.82	0.60
1:A:450:SER:CA	1:A:453:LEU:HG	2.31	0.60
1:A:2378:THR:O	1:A:2378:THR:HG23	2.00	0.60
1:A:2423:ARG:HD2	1:A:2423:ARG:C	2.18	0.60
1:A:2696:ARG:CZ	1:D:2696:ARG:NH2	2.62	0.60
1:B:583:LYS:HD2	1:B:583:LYS:C	2.21	0.60
1:B:2683:LEU:HD13	1:B:2683:LEU:N	2.17	0.60
1:D:2365:LYS:HE2	1:D:2395:HIS:O	2.02	0.60
1:D:2368:PHE:HE2	1:D:2395:HIS:CB	2.10	0.60
1:D:2653:SER:OG	1:D:2664:ALA:CB	2.49	0.60
1:A:90:ASN:O	1:A:94:HIS:HB3	2.02	0.60
1:A:2401:ILE:HG21	1:A:2416:LEU:CG	2.28	0.60
1:A:2642:LEU:HD13	1:A:2642:LEU:N	2.15	0.60
1:A:2656:TYR:O	1:A:2660:GLU:CG	2.49	0.60
1:C:88:LEU:C	1:C:92:LEU:HD11	2.01	0.60
1:C:2725:GLU:OE1	1:D:2720:LYS:HD3	2.02	0.60
1:B:870:ALA:O	1:B:874:ILE:N	2.34	0.60
1:B:2365:LYS:HE2	1:B:2395:HIS:O	2.02	0.60
1:D:270:GLN:O	1:D:272:ALA:CA	2.50	0.60
1:D:442:ASP:CG	1:D:483:PHE:HE2	2.05	0.60
1:D:1291:VAL:O	1:D:1295:PHE:N	2.32	0.60
1:A:442:ASP:CG	1:A:483:PHE:HE2	2.05	0.60
1:A:514:ASN:OD1	1:A:516:LEU:HD13	1.95	0.60
1:A:2683:LEU:HD13	1:A:2683:LEU:N	2.17	0.60
1:C:571:GLN:HG3	1:C:574:ILE:CD1	2.28	0.60
1:C:2106:SER:O	1:C:2110:GLU:N	2.34	0.60
1:C:2683:LEU:HD13	1:C:2683:LEU:N	2.17	0.60
1:B:2021:LEU:C	1:B:2023:LEU:N	2.54	0.60
1:B:2656:TYR:O	1:B:2660:GLU:CG	2.49	0.60
1:D:447:ASN:HB3	1:D:513:GLN:HG3	1.82	0.60
1:D:525:ALA:HB3	1:D:526:PRO:CD	2.30	0.60
1:D:653:CYS:O	1:D:657:LEU:N	2.31	0.60
1:A:486:GLY:CA	1:A:510:MET:HE3	2.31	0.60
1:C:90:ASN:O	1:C:94:HIS:HB3	2.02	0.60
1:C:525:ALA:CB	1:C:526:PRO:HD2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:968:MET:O	1:C:972:LEU:N	2.32	0.60
1:C:2622:ASP:OD1	1:C:2628:PHE:CG	2.55	0.60
1:D:582:GLN:HE21	1:D:582:GLN:HA	1.66	0.60
1:D:646:PRO:C	1:D:648:THR:H	1.72	0.60
1:D:2289:LEU:CD1	1:D:2289:LEU:H	2.14	0.60
1:D:2433:SER:HA	1:D:2592:THR:CG2	2.32	0.60
1:A:2110:GLU:O	1:A:2114:TYR:N	2.34	0.60
1:A:2649:LYS:C	1:A:2650:VAL:CG2	2.54	0.60
1:A:2653:SER:OG	1:A:2664:ALA:CB	2.49	0.60
1:A:2692:GLN:O	1:A:2692:GLN:HG2	2.01	0.60
1:C:774:PRO:O	1:C:778:ARG:N	2.33	0.60
1:C:2034:ASN:O	1:C:2038:GLU:N	2.30	0.60
1:B:143:GLU:HG2	1:B:145:ASN:H	1.67	0.60
1:B:2579:ILE:O	1:B:2580:ILE:O	2.18	0.60
1:D:819:TYR:H	1:D:877:GLY:N	1.99	0.60
1:D:2058:HIS:O	1:D:2062:GLY:N	2.20	0.60
1:D:2372:PHE:HE2	1:D:2391:GLU:HG3	1.65	0.60
1:A:453:LEU:C	1:A:521:LYS:NZ	2.55	0.60
1:A:2288:ASN:HA	1:A:2413:TYR:CB	2.28	0.60
1:B:554:ARG:HH11	1:B:554:ARG:CG	2.13	0.60
1:B:2425:GLU:HA	1:B:2428:LEU:CB	2.31	0.60
1:D:508:LYS:CG	1:D:570:ASN:HD21	2.14	0.60
1:D:2283:LEU:HD23	1:D:2283:LEU:C	2.22	0.60
1:D:2656:TYR:O	1:D:2660:GLU:CG	2.49	0.60
1:A:441:ARG:HH11	1:A:441:ARG:CG	2.15	0.59
1:A:2433:SER:HA	1:A:2592:THR:CG2	2.32	0.59
1:A:2579:ILE:O	1:A:2580:ILE:O	2.18	0.59
1:C:2110:GLU:O	1:C:2114:TYR:N	2.34	0.59
1:C:2372:PHE:CD2	1:C:2395:HIS:ND1	2.59	0.59
1:C:2433:SER:HA	1:C:2592:THR:CG2	2.32	0.59
1:B:453:LEU:O	1:B:521:LYS:HE3	2.02	0.59
1:B:582:GLN:HE21	1:B:582:GLN:HA	1.66	0.59
1:B:2283:LEU:HD23	1:B:2283:LEU:C	2.22	0.59
1:B:2288:ASN:HA	1:B:2413:TYR:CB	2.28	0.59
1:B:2576:MET:CE	1:B:2580:ILE:CD1	2.80	0.59
1:D:275:ALA:CB	2:D:2801:JYP:N4	2.46	0.59
1:D:453:LEU:CB	1:D:521:LYS:HZ3	2.14	0.59
1:D:509:LEU:HD22	1:D:509:LEU:C	2.23	0.59
1:D:2558:LYS:O	1:D:2560:GLU:HG3	2.00	0.59
1:A:143:GLU:HG2	1:A:145:ASN:H	1.67	0.59
1:A:508:LYS:CG	1:A:570:ASN:HD21	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570:ASN:CB	1:A:571:GLN:OE1	2.36	0.59
1:A:2365:LYS:HE2	1:A:2395:HIS:O	2.02	0.59
1:A:2716:LEU:H	1:A:2716:LEU:CD2	1.93	0.59
1:C:441:ARG:HH11	1:C:441:ARG:CG	2.15	0.59
1:C:2528:CYS:HA	1:B:2558:LYS:HE3	1.84	0.59
1:C:2558:LYS:O	1:C:2560:GLU:HG3	2.00	0.59
1:B:2378:THR:HG23	1:B:2378:THR:O	2.00	0.59
1:A:1406:ILE:N	1:A:1445:ASN:CA	2.66	0.59
1:A:2695:LEU:C	1:A:2697:ASN:N	2.56	0.59
1:C:165:PRO:HG2	1:C:168:LYS:HA	1.82	0.59
1:C:2549:VAL:HG21	1:C:2574:PHE:HA	1.84	0.59
1:B:517:LYS:HA	1:B:517:LYS:HZ2	1.66	0.59
1:B:2289:LEU:HD13	1:B:2289:LEU:H	1.67	0.59
1:D:583:LYS:HD2	1:D:583:LYS:C	2.22	0.59
1:A:300:ASN:CG	1:D:2730:LYS:CG	2.58	0.59
1:A:509:LEU:HD22	1:A:509:LEU:C	2.23	0.59
1:A:653:CYS:O	1:A:657:LEU:N	2.31	0.59
1:A:1807:LEU:O	1:A:1811:LEU:N	2.32	0.59
1:A:2021:LEU:C	1:A:2023:LEU:N	2.54	0.59
1:A:2549:VAL:HG21	1:A:2574:PHE:HA	1.84	0.59
1:C:2277:SER:O	1:C:2281:PHE:CD2	2.54	0.59
1:C:2289:LEU:HD13	1:C:2289:LEU:H	1.67	0.59
1:C:2425:GLU:HA	1:C:2428:LEU:CB	2.31	0.59
1:C:2710:THR:CG2	1:C:2711:ASN:ND2	2.64	0.59
1:B:165:PRO:HG2	1:B:168:LYS:HA	1.82	0.59
1:B:2030:VAL:O	1:B:2034:ASN:N	2.32	0.59
1:B:2372:PHE:HE2	1:B:2391:GLU:HG3	1.65	0.59
1:D:237:GLY:C	1:D:283:GLU:OE2	2.40	0.59
1:D:453:LEU:C	1:D:521:LYS:NZ	2.56	0.59
1:D:1406:ILE:N	1:D:1445:ASN:CA	2.66	0.59
1:A:2283:LEU:HD23	1:A:2283:LEU:C	2.22	0.59
1:A:2576:MET:CE	1:A:2580:ILE:CD1	2.80	0.59
1:A:2586:PHE:CZ	1:D:2583:ASN:HB2	2.36	0.59
1:A:2622:ASP:OD1	1:A:2628:PHE:CG	2.55	0.59
1:C:32:LEU:CB	1:C:445:PHE:CZ	2.85	0.59
1:C:1406:ILE:N	1:C:1445:ASN:CA	2.66	0.59
1:C:2623:ASN:ND2	1:B:2677:ARG:NH2	2.50	0.59
1:B:2401:ILE:HG21	1:B:2416:LEU:CG	2.28	0.59
1:D:2213:PRO:CD	1:D:2647:LEU:CG	2.79	0.59
1:D:2348:VAL:HG12	1:D:2353:THR:HB	1.72	0.59
1:A:453:LEU:O	1:A:521:LYS:HE3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:774:PRO:O	1:A:778:ARG:N	2.33	0.59
1:A:2427:LEU:HD11	1:D:2447:LEU:HD13	1.83	0.59
1:C:237:GLY:C	1:C:283:GLU:OE2	2.40	0.59
1:C:453:LEU:O	1:C:521:LYS:HE3	2.02	0.59
1:C:2283:LEU:HD13	1:C:2364:ASN:ND2	2.18	0.59
1:B:453:LEU:C	1:B:521:LYS:HZ2	2.06	0.59
1:B:453:LEU:C	1:B:521:LYS:NZ	2.56	0.59
1:A:525:ALA:HB3	1:A:526:PRO:CD	2.30	0.59
1:A:2277:SER:O	1:A:2281:PHE:CD2	2.54	0.59
1:C:509:LEU:HD22	1:C:509:LEU:C	2.23	0.59
1:C:2213:PRO:CD	1:C:2647:LEU:CG	2.79	0.59
1:B:508:LYS:CG	1:B:570:ASN:HD21	2.14	0.59
1:B:2581:VAL:HA	1:B:2584:LEU:HB2	1.82	0.59
1:D:2289:LEU:HD13	1:D:2289:LEU:H	1.67	0.59
1:A:32:LEU:CB	1:A:445:PHE:CZ	2.85	0.59
1:A:74:LYS:HA	1:A:74:LYS:HZ3	1.66	0.59
1:A:288:GLN:NE2	1:A:290:ASP:O	2.36	0.59
1:C:2036:THR:O	1:C:2040:LEU:N	2.33	0.59
1:C:2283:LEU:C	1:C:2283:LEU:HD23	2.22	0.59
1:B:237:GLY:C	1:B:283:GLU:OE2	2.40	0.59
1:B:571:GLN:HG3	1:B:574:ILE:CD1	2.28	0.59
1:B:2106:SER:O	1:B:2110:GLU:N	2.34	0.59
1:B:2271:ARG:CZ	1:B:2272:ASN:HD21	2.14	0.59
1:B:2368:PHE:HZ	1:B:2395:HIS:CD2	1.95	0.59
1:B:2655:GLU:OE1	1:B:2655:GLU:N	2.18	0.59
1:D:2271:ARG:HH12	1:D:2272:ASN:ND2	1.89	0.59
1:A:237:GLY:C	1:A:283:GLU:OE2	2.40	0.59
1:A:547:ALA:HB3	1:A:548:PRO:HD2	1.68	0.59
1:A:2271:ARG:HH12	1:A:2272:ASN:ND2	1.89	0.59
1:C:453:LEU:HA	1:C:521:LYS:HZ3	1.64	0.59
1:C:508:LYS:CG	1:C:570:ASN:HD21	2.14	0.59
1:C:520:PHE:HE1	1:C:523:LEU:CD1	2.13	0.59
1:C:998:LYS:O	1:C:1002:ASP:N	2.33	0.59
1:C:1817:SER:O	1:C:1821:PHE:N	2.36	0.59
1:C:2388:LEU:HD23	1:C:2388:LEU:N	2.08	0.59
1:B:90:ASN:O	1:B:94:HIS:HB3	2.02	0.59
1:B:442:ASP:CG	1:B:483:PHE:HE2	2.05	0.59
1:B:1406:ILE:N	1:B:1445:ASN:CA	2.66	0.59
1:D:441:ARG:HH11	1:D:441:ARG:CG	2.15	0.59
1:D:2239:LYS:HZ2	1:D:2677:ARG:CD	2.13	0.59
1:D:2558:LYS:O	1:D:2560:GLU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:PHE:HE1	1:A:523:LEU:CD1	2.13	0.59
1:A:2345:ILE:CG2	1:A:2353:THR:HG1	2.10	0.59
1:A:2372:PHE:HE2	1:A:2391:GLU:HG3	1.65	0.59
1:C:2626:VAL:CG1	1:C:2627:THR:N	1.88	0.59
1:C:2699:GLN:HA	1:B:2700:GLU:CD	2.23	0.59
1:B:147:MET:HB2	1:B:211:SER:HB3	1.85	0.59
1:B:998:LYS:O	1:B:1002:ASP:N	2.33	0.59
1:D:32:LEU:CB	1:D:445:PHE:CZ	2.85	0.59
1:A:2283:LEU:HD13	1:A:2364:ASN:ND2	2.18	0.58
1:C:2348:VAL:HB	1:C:2353:THR:HG22	1.81	0.58
1:B:1197:SER:O	1:B:1201:GLN:N	2.36	0.58
1:B:2283:LEU:HD13	1:B:2364:ASN:ND2	2.18	0.58
1:B:2710:THR:HG23	1:B:2711:ASN:N	2.18	0.58
1:D:103:ASN:HA	1:D:106:GLU:OE1	2.03	0.58
1:D:2549:VAL:HG21	1:D:2574:PHE:HA	1.84	0.58
1:A:1126:VAL:O	1:A:1130:GLU:N	2.27	0.58
1:A:2239:LYS:HZ2	1:A:2677:ARG:CD	2.15	0.58
1:C:2372:PHE:HE2	1:C:2391:GLU:HG3	1.65	0.58
1:C:2558:LYS:O	1:C:2560:GLU:N	2.36	0.58
1:B:1334:LEU:O	1:B:1338:GLY:CA	2.51	0.58
1:B:1810:ASP:O	1:B:1814:ASN:N	2.36	0.58
1:D:90:ASN:O	1:D:94:HIS:HB3	2.02	0.58
1:D:143:GLU:HG2	1:D:145:ASN:H	1.67	0.58
1:D:1334:LEU:O	1:D:1338:GLY:CA	2.51	0.58
1:A:305:PHE:HB2	1:A:314:LEU:HB3	1.86	0.58
1:C:1334:LEU:O	1:C:1338:GLY:CA	2.51	0.58
1:C:2576:MET:CE	1:C:2580:ILE:CD1	2.80	0.58
1:B:2243:PHE:CD1	1:B:2642:LEU:CD1	2.67	0.58
1:B:2549:VAL:HG21	1:B:2574:PHE:HA	1.84	0.58
1:D:147:MET:HB2	1:D:211:SER:HB3	1.85	0.58
1:A:147:MET:HB2	1:A:211:SER:HB3	1.85	0.58
1:A:453:LEU:C	1:A:521:LYS:HZ2	2.06	0.58
1:A:2239:LYS:CG	1:A:2240:ILE:N	2.54	0.58
1:C:2033:ILE:O	1:C:2037:LEU:N	2.31	0.58
1:B:288:GLN:NE2	1:B:290:ASP:O	2.36	0.58
1:B:2277:SER:O	1:B:2281:PHE:CD2	2.54	0.58
1:D:520:PHE:HE1	1:D:523:LEU:CD1	2.13	0.58
1:D:2034:ASN:O	1:D:2038:GLU:N	2.30	0.58
1:D:2283:LEU:HD13	1:D:2364:ASN:ND2	2.18	0.58
1:D:2576:MET:CE	1:D:2580:ILE:CD1	2.81	0.58
1:A:2549:VAL:HG23	1:A:2573:PHE:HD2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:PHE:HB2	1:B:314:LEU:HB3	1.86	0.58
1:B:819:TYR:N	1:B:877:GLY:HA3	2.18	0.58
1:B:1961:ALA:O	1:B:1963:ILE:N	2.37	0.58
1:B:2213:PRO:CD	1:B:2647:LEU:CG	2.79	0.58
1:B:2716:LEU:H	1:B:2716:LEU:CD2	1.93	0.58
1:D:569:LYS:CE	2:D:2801:JYP:C10	2.72	0.58
1:D:602:ASN:O	1:D:603:ARG:O	2.22	0.58
1:D:1810:ASP:O	1:D:1814:ASN:N	2.36	0.58
1:A:1197:SER:O	1:A:1201:GLN:N	2.36	0.58
1:C:1810:ASP:O	1:C:1814:ASN:N	2.36	0.58
1:B:32:LEU:CB	1:B:445:PHE:CZ	2.85	0.58
1:B:509:LEU:HD22	1:B:509:LEU:C	2.23	0.58
1:B:1113:LYS:O	1:B:1117:GLN:N	2.37	0.58
1:B:2349:GLY:C	1:B:2351:GLN:N	2.50	0.58
1:B:2368:PHE:HE2	1:B:2395:HIS:CB	2.10	0.58
1:B:2626:VAL:CG1	1:B:2627:THR:N	1.88	0.58
1:D:2365:LYS:HZ1	1:D:2395:HIS:CB	2.17	0.58
1:D:2621:PHE:HA	1:D:2624:LYS:HG2	1.86	0.58
1:A:103:ASN:HA	1:A:106:GLU:OE1	2.03	0.58
1:A:1334:LEU:O	1:A:1338:GLY:CA	2.51	0.58
1:A:2370:MET:N	1:A:2370:MET:SD	2.77	0.58
1:A:2430:VAL:HG12	1:A:2593:PHE:CE1	2.39	0.58
1:A:2621:PHE:HA	1:A:2624:LYS:HG2	1.86	0.58
1:A:2700:GLU:HG2	1:B:2702:LEU:HD11	1.71	0.58
1:C:288:GLN:NE2	1:C:290:ASP:O	2.36	0.58
1:C:569:LYS:CE	2:C:2801:JYP:C10	2.72	0.58
1:C:2621:PHE:HA	1:C:2624:LYS:HG2	1.86	0.58
1:B:103:ASN:HA	1:B:106:GLU:OE1	2.03	0.58
1:B:2213:PRO:CB	1:B:2647:LEU:HD13	2.34	0.58
1:B:2558:LYS:O	1:B:2560:GLU:N	2.36	0.58
1:B:2621:PHE:HA	1:B:2624:LYS:HG2	1.86	0.58
1:D:2288:ASN:HD21	1:D:2417:LEU:CB	1.91	0.58
1:D:2370:MET:N	1:D:2370:MET:SD	2.77	0.58
1:D:2430:VAL:HG12	1:D:2593:PHE:CE1	2.39	0.58
1:A:2058:HIS:O	1:A:2062:GLY:N	2.20	0.58
1:C:147:MET:HB2	1:C:211:SER:HB3	1.85	0.58
1:C:263:PHE:CE2	1:C:265:ARG:NE	2.58	0.58
1:C:305:PHE:HB2	1:C:314:LEU:HB3	1.86	0.58
1:C:2288:ASN:CB	1:C:2413:TYR:C	2.72	0.58
1:C:2372:PHE:HD2	1:C:2395:HIS:CE1	2.22	0.58
1:B:1817:SER:O	1:B:1821:PHE:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2033:ILE:O	1:B:2037:LEU:N	2.31	0.58
1:D:564:GLN:HB2	1:D:574:ILE:CD1	2.33	0.58
1:D:2372:PHE:HD2	1:D:2395:HIS:CE1	2.22	0.58
1:A:2213:PRO:CB	1:A:2647:LEU:HD13	2.34	0.58
1:A:2427:LEU:HD12	1:A:2430:VAL:HG23	1.85	0.58
1:C:1197:SER:O	1:C:1201:GLN:N	2.36	0.58
1:C:2433:SER:C	1:C:2434:VAL:CG2	2.72	0.58
1:B:969:ASP:O	1:B:973:LYS:N	2.36	0.58
1:B:2036:THR:O	1:B:2040:LEU:N	2.33	0.58
1:D:1197:SER:O	1:D:1201:GLN:N	2.36	0.58
1:D:2576:MET:HE2	1:D:2580:ILE:CD1	2.34	0.58
1:D:2622:ASP:OD1	1:D:2628:PHE:CG	2.55	0.58
1:C:103:ASN:HA	1:C:106:GLU:OE1	2.03	0.58
1:C:143:GLU:HG2	1:C:145:ASN:H	1.67	0.58
1:C:583:LYS:HD2	1:C:583:LYS:C	2.22	0.58
1:C:2370:MET:N	1:C:2370:MET:SD	2.77	0.58
1:A:60:LEU:HG	1:A:115:ILE:HD13	1.86	0.57
1:A:269:ARG:HD3	1:A:272:ALA:HB3	1.86	0.57
1:A:602:ASN:O	1:A:603:ARG:O	2.22	0.57
1:A:1810:ASP:O	1:A:1814:ASN:N	2.36	0.57
1:A:2290:LEU:HD13	1:A:2290:LEU:C	2.25	0.57
1:A:2558:LYS:O	1:A:2560:GLU:N	2.36	0.57
1:C:304:ARG:NH1	1:C:366:SER:OG	2.37	0.57
1:C:2213:PRO:CB	1:C:2647:LEU:HD13	2.34	0.57
1:B:441:ARG:HH11	1:B:441:ARG:CG	2.15	0.57
1:B:2433:SER:C	1:B:2434:VAL:CG2	2.72	0.57
1:D:288:GLN:NE2	1:D:290:ASP:O	2.36	0.57
1:D:2192:HIS:CG	1:D:2211:PRO:HA	2.39	0.57
1:D:2290:LEU:HD13	1:D:2290:LEU:C	2.25	0.57
1:D:2710:THR:HG23	1:D:2711:ASN:N	2.18	0.57
1:A:252:THR:N	1:A:263:PHE:O	2.36	0.57
1:A:2289:LEU:HD13	1:A:2289:LEU:H	1.67	0.57
1:C:1291:VAL:O	1:C:1295:PHE:N	2.32	0.57
1:C:2192:HIS:CG	1:C:2211:PRO:HA	2.39	0.57
1:C:2239:LYS:HZ3	1:C:2677:ARG:CD	2.08	0.57
1:B:60:LEU:HG	1:B:115:ILE:HD13	1.86	0.57
1:B:974:ILE:O	1:B:978:LEU:N	2.35	0.57
1:B:2348:VAL:HG21	1:B:2353:THR:HG22	1.78	0.57
1:B:2549:VAL:HG23	1:B:2573:PHE:HD2	1.69	0.57
1:A:270:GLN:O	1:A:272:ALA:CA	2.50	0.57
1:A:971:LYS:O	1:A:975:ILE:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2560:GLU:HG2	1:A:2563:PHE:CE2	2.16	0.57
1:A:2713:SER:O	1:A:2716:LEU:HD21	1.95	0.57
1:C:2407:PHE:N	1:C:2407:PHE:HD1	2.02	0.57
1:B:2365:LYS:HZ3	1:B:2395:HIS:HA	1.68	0.57
1:B:2695:LEU:C	1:B:2697:ASN:N	2.56	0.57
1:D:305:PHE:HB2	1:D:314:LEU:HB3	1.86	0.57
1:D:2288:ASN:CB	1:D:2413:TYR:C	2.72	0.57
1:D:2618:ARG:HD2	1:D:2628:PHE:HZ	1.69	0.57
1:A:2372:PHE:HD2	1:A:2395:HIS:CE1	2.22	0.57
1:A:2407:PHE:H	1:A:2407:PHE:HD1	1.52	0.57
1:A:2407:PHE:HD1	1:A:2407:PHE:N	2.02	0.57
1:C:2401:ILE:HD12	1:C:2401:ILE:C	2.25	0.57
1:C:2427:LEU:HD12	1:C:2430:VAL:HG23	1.85	0.57
1:C:2583:ASN:HD22	1:D:2586:PHE:CB	2.17	0.57
1:B:1291:VAL:O	1:B:1295:PHE:N	2.32	0.57
1:D:453:LEU:O	1:D:521:LYS:HE3	2.02	0.57
1:D:525:ALA:CB	1:D:526:PRO:HD2	2.30	0.57
1:D:1961:ALA:O	1:D:1963:ILE:N	2.37	0.57
1:D:2401:ILE:HG21	1:D:2416:LEU:CG	2.28	0.57
1:D:2407:PHE:N	1:D:2407:PHE:HD1	2.02	0.57
1:D:2649:LYS:C	1:D:2650:VAL:CG1	2.70	0.57
1:A:2368:PHE:HE2	1:A:2395:HIS:CB	2.10	0.57
1:A:2700:GLU:OE1	1:B:2699:GLN:CG	2.52	0.57
1:B:304:ARG:NH1	1:B:366:SER:OG	2.37	0.57
1:B:602:ASN:O	1:B:603:ARG:O	2.22	0.57
1:B:2219:LEU:CD2	1:B:2254:MET:CE	2.77	0.57
1:B:2288:ASN:CB	1:B:2413:TYR:C	2.72	0.57
1:B:2372:PHE:HD2	1:B:2395:HIS:CE1	2.22	0.57
1:B:2407:PHE:N	1:B:2407:PHE:HD1	2.02	0.57
1:B:2427:LEU:HD12	1:B:2430:VAL:HG23	1.85	0.57
1:B:2710:THR:CG2	1:B:2711:ASN:ND2	2.64	0.57
1:D:2213:PRO:CB	1:D:2647:LEU:HD13	2.34	0.57
1:D:2277:SER:O	1:D:2281:PHE:CD2	2.54	0.57
1:D:2401:ILE:C	1:D:2401:ILE:HD12	2.25	0.57
1:A:2401:ILE:C	1:A:2401:ILE:HD12	2.25	0.57
1:C:1113:LYS:O	1:C:1117:GLN:N	2.37	0.57
1:C:1619:VAL:C	1:C:1621:ALA:H	2.05	0.57
1:C:2240:ILE:O	1:C:2241:ASN:C	2.43	0.57
1:C:2290:LEU:C	1:C:2290:LEU:HD13	2.25	0.57
1:C:2558:LYS:C	1:C:2560:GLU:N	2.53	0.57
1:C:2586:PHE:CB	1:B:2583:ASN:HD22	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:269:ARG:HD3	1:B:272:ALA:HB3	1.87	0.57
1:B:1619:VAL:O	1:B:1620:GLN:C	2.43	0.57
1:B:2370:MET:N	1:B:2370:MET:SD	2.77	0.57
1:D:269:ARG:HG2	1:D:272:ALA:HB3	1.86	0.57
1:D:2433:SER:C	1:D:2592:THR:HG21	2.25	0.57
1:A:2192:HIS:CG	1:A:2211:PRO:HA	2.39	0.57
1:A:2271:ARG:CZ	1:A:2272:ASN:HD21	2.14	0.57
1:C:514:ASN:HB3	1:C:517:LYS:N	2.06	0.57
1:C:602:ASN:O	1:C:603:ARG:O	2.22	0.57
1:C:1961:ALA:O	1:C:1963:ILE:N	2.37	0.57
1:C:2430:VAL:HG12	1:C:2593:PHE:CE1	2.39	0.57
1:B:2284:ALA:O	1:B:2287:MET:CB	2.41	0.57
1:D:525:ALA:CB	1:D:526:PRO:CD	2.83	0.57
1:D:2656:TYR:O	1:D:2660:GLU:HG2	2.05	0.57
1:A:525:ALA:CB	1:A:526:PRO:CD	2.83	0.57
1:A:1113:LYS:O	1:A:1117:GLN:N	2.37	0.57
1:A:1961:ALA:O	1:A:1963:ILE:N	2.37	0.57
1:A:2219:LEU:CD2	1:A:2254:MET:CE	2.77	0.57
1:C:554:ARG:HH11	1:C:554:ARG:CG	2.12	0.57
1:B:270:GLN:HE21	1:B:271:SER:N	1.96	0.57
1:B:964:ASP:O	1:B:968:MET:N	2.36	0.57
1:B:2239:LYS:HZ3	1:B:2677:ARG:NE	2.03	0.57
1:B:2430:VAL:HG12	1:B:2593:PHE:CE1	2.39	0.57
1:D:486:GLY:CA	1:D:510:MET:HE3	2.33	0.57
1:D:974:ILE:O	1:D:978:LEU:N	2.35	0.57
1:D:1817:SER:O	1:D:1821:PHE:N	2.36	0.57
1:A:2348:VAL:CB	1:A:2353:THR:HG22	2.31	0.57
1:A:2433:SER:C	1:A:2592:THR:HG21	2.25	0.57
1:A:2618:ARG:HD2	1:A:2628:PHE:CE2	2.40	0.57
1:A:2706:MET:HB3	1:D:2707:LYS:HD3	1.87	0.57
1:A:2710:THR:HG23	1:A:2711:ASN:N	2.18	0.57
1:C:525:ALA:CB	1:C:526:PRO:CD	2.83	0.57
1:C:2243:PHE:HZ	1:C:2638:MET:CB	2.03	0.57
1:C:2281:PHE:HB2	1:C:2420:LEU:HD22	1.87	0.57
1:C:2407:PHE:H	1:C:2407:PHE:HD1	1.52	0.57
1:B:2290:LEU:HD13	1:B:2290:LEU:C	2.25	0.57
1:D:1113:LYS:O	1:D:1117:GLN:N	2.37	0.57
1:D:2549:VAL:HG23	1:D:2573:PHE:HD2	1.69	0.57
1:D:2695:LEU:C	1:D:2697:ASN:N	2.56	0.57
1:A:304:ARG:NH1	1:A:366:SER:OG	2.37	0.57
1:A:998:LYS:O	1:A:1002:ASP:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2725:GLU:CD	1:B:2720:LYS:HD3	2.24	0.57
1:B:269:ARG:HG2	1:B:272:ALA:HB3	1.86	0.57
1:B:564:GLN:HB2	1:B:574:ILE:CD1	2.33	0.57
1:B:2407:PHE:H	1:B:2407:PHE:HD1	1.52	0.57
1:B:2618:ARG:HD2	1:B:2628:PHE:CE2	2.40	0.57
1:D:2618:ARG:HD2	1:D:2628:PHE:CE2	2.40	0.57
1:A:564:GLN:HB2	1:A:574:ILE:CD1	2.33	0.56
1:A:876:PHE:O	1:A:880:ASN:CA	2.53	0.56
1:A:1619:VAL:O	1:A:1620:GLN:C	2.43	0.56
1:A:2591:ASP:OD1	1:B:2597:ARG:NH1	2.38	0.56
1:C:823:GLY:O	1:C:825:SER:N	2.38	0.56
1:C:2656:TYR:O	1:C:2660:GLU:HG2	2.05	0.56
1:B:2401:ILE:C	1:B:2401:ILE:HD12	2.25	0.56
1:B:2411:PHE:CD2	1:B:2411:PHE:N	2.73	0.56
1:B:2433:SER:C	1:B:2592:THR:HG21	2.25	0.56
1:D:823:GLY:O	1:D:825:SER:N	2.38	0.56
1:D:876:PHE:O	1:D:880:ASN:CA	2.53	0.56
1:D:2710:THR:CG2	1:D:2711:ASN:ND2	2.64	0.56
1:A:269:ARG:HG2	1:A:272:ALA:HB3	1.86	0.56
1:A:2273:MET:CA	1:A:2276:TRP:CD1	2.71	0.56
1:A:2288:ASN:CB	1:A:2413:TYR:C	2.72	0.56
1:A:2626:VAL:CG1	1:A:2627:THR:N	1.88	0.56
1:B:823:GLY:O	1:B:825:SER:N	2.38	0.56
1:D:2240:ILE:O	1:D:2241:ASN:C	2.43	0.56
1:D:2427:LEU:HD12	1:D:2430:VAL:HG23	1.85	0.56
1:A:583:LYS:HD2	1:A:583:LYS:C	2.21	0.56
1:A:2281:PHE:HB2	1:A:2420:LEU:HD22	1.87	0.56
1:A:2549:VAL:HG22	1:A:2574:PHE:HA	1.86	0.56
1:A:2576:MET:HE1	1:A:2580:ILE:CD1	2.34	0.56
1:C:60:LEU:HG	1:C:115:ILE:HD13	1.86	0.56
1:C:269:ARG:HD3	1:C:272:ALA:HB3	1.86	0.56
1:C:564:GLN:HB2	1:C:574:ILE:CD1	2.33	0.56
1:C:2549:VAL:HG23	1:C:2573:PHE:HD2	1.69	0.56
1:C:2583:ASN:ND2	1:D:2586:PHE:CG	2.74	0.56
1:C:2710:THR:HG23	1:C:2711:ASN:N	2.18	0.56
1:B:2192:HIS:CG	1:B:2211:PRO:HA	2.40	0.56
1:B:2273:MET:HB2	1:B:2371:SER:HG	1.64	0.56
1:B:2407:PHE:N	1:B:2407:PHE:CD1	2.72	0.56
1:B:2452:VAL:CG2	1:B:2573:PHE:CZ	2.88	0.56
1:B:2571:LEU:HD13	1:B:2572:LEU:HG	1.88	0.56
1:B:2656:TYR:O	1:B:2660:GLU:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2271:ARG:CZ	1:D:2272:ASN:HD21	2.14	0.56
1:A:447:ASN:HB3	1:A:513:GLN:CG	2.35	0.56
1:A:2103:ARG:C	1:A:2105:ASP:H	2.09	0.56
1:A:2411:PHE:N	1:A:2411:PHE:CD2	2.73	0.56
1:A:2618:ARG:HD2	1:A:2628:PHE:HZ	1.68	0.56
1:C:453:LEU:HB3	1:C:521:LYS:HZ3	1.70	0.56
1:C:876:PHE:O	1:C:880:ASN:CA	2.53	0.56
1:C:2213:PRO:HA	1:C:2647:LEU:HD13	1.88	0.56
1:C:2411:PHE:CD2	1:C:2411:PHE:N	2.73	0.56
1:C:2695:LEU:C	1:C:2697:ASN:N	2.56	0.56
1:B:2103:ARG:C	1:B:2105:ASP:H	2.09	0.56
1:D:60:LEU:HG	1:D:115:ILE:HD13	1.86	0.56
1:D:447:ASN:HB3	1:D:513:GLN:CG	2.35	0.56
1:D:819:TYR:N	1:D:877:GLY:HA3	2.18	0.56
1:D:2707:LYS:HE3	1:D:2711:ASN:OD1	2.06	0.56
1:C:252:THR:N	1:C:263:PHE:O	2.36	0.56
1:C:269:ARG:HG2	1:C:272:ALA:HB3	1.86	0.56
1:C:447:ASN:HB3	1:C:513:GLN:CG	2.35	0.56
1:C:2716:LEU:H	1:C:2716:LEU:CD2	1.93	0.56
1:B:525:ALA:CB	1:B:526:PRO:CD	2.83	0.56
1:B:876:PHE:O	1:B:880:ASN:CA	2.53	0.56
1:B:2213:PRO:HA	1:B:2647:LEU:HD13	1.88	0.56
1:D:304:ARG:NH1	1:D:366:SER:OG	2.37	0.56
1:D:1356:GLN:N	1:D:1416:ILE:O	2.38	0.56
1:D:2278:SER:O	1:D:2281:PHE:CG	2.58	0.56
1:D:2549:VAL:HG22	1:D:2574:PHE:HA	1.86	0.56
1:A:90:ASN:CA	1:A:93:HIS:CE1	2.80	0.56
1:A:2030:VAL:O	1:A:2034:ASN:N	2.32	0.56
1:A:2715:GLN:OE1	1:A:2718:GLU:CD	2.42	0.56
1:C:570:ASN:CB	1:C:571:GLN:OE1	2.36	0.56
1:C:971:LYS:O	1:C:975:ILE:N	2.38	0.56
1:C:2528:CYS:HA	1:B:2558:LYS:CE	2.36	0.56
1:B:1356:GLN:N	1:B:1416:ILE:O	2.38	0.56
1:B:1619:VAL:C	1:B:1621:ALA:H	2.05	0.56
1:D:104:GLU:O	1:D:106:GLU:N	2.33	0.56
1:D:269:ARG:HD3	1:D:272:ALA:HB3	1.87	0.56
1:D:2407:PHE:H	1:D:2407:PHE:HD1	1.52	0.56
1:D:2411:PHE:N	1:D:2411:PHE:CD2	2.73	0.56
1:A:823:GLY:O	1:A:825:SER:N	2.38	0.56
1:C:2286:LEU:HA	1:C:2289:LEU:HD11	1.88	0.56
1:C:2401:ILE:HG21	1:C:2416:LEU:CG	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2433:SER:C	1:C:2592:THR:HG21	2.25	0.56
1:B:447:ASN:HB3	1:B:513:GLN:CG	2.35	0.56
1:B:971:LYS:O	1:B:975:ILE:N	2.38	0.56
1:A:2216:CYS:HG	1:A:2646:VAL:CG2	2.17	0.56
1:A:2407:PHE:N	1:A:2407:PHE:CD1	2.72	0.56
1:A:2571:LEU:HD13	1:A:2572:LEU:HG	1.88	0.56
1:C:453:LEU:C	1:C:521:LYS:NZ	2.55	0.56
1:D:77:LYS:N	1:D:77:LYS:HD3	2.21	0.56
1:D:2372:PHE:CD2	1:D:2395:HIS:ND1	2.59	0.56
1:A:77:LYS:N	1:A:77:LYS:HD3	2.21	0.56
1:A:964:ASP:O	1:A:968:MET:N	2.36	0.56
1:A:2707:LYS:HE3	1:A:2711:ASN:OD1	2.06	0.56
1:B:2726:GLN:HA	1:B:2726:GLN:OE1	2.05	0.56
1:D:64:ASN:ND2	1:D:107:ASN:HD21	2.04	0.56
1:D:547:ALA:CB	1:D:548:PRO:CD	2.17	0.56
1:D:2286:LEU:HA	1:D:2289:LEU:HD11	1.88	0.56
1:A:819:TYR:N	1:A:877:GLY:HA3	2.18	0.56
1:A:2286:LEU:HA	1:A:2289:LEU:HD11	1.88	0.56
1:C:1030:PHE:O	1:C:1034:GLU:N	2.39	0.56
1:C:2618:ARG:HD2	1:C:2628:PHE:CE2	2.40	0.56
1:C:2696:ARG:NH2	1:D:2696:ARG:NH2	2.53	0.56
1:B:1836:ASN:O	1:B:1840:GLN:N	2.33	0.56
1:B:2281:PHE:HB2	1:B:2420:LEU:HD22	1.86	0.56
1:D:380:SER:O	1:D:380:SER:OG	2.24	0.56
1:D:2345:ILE:CD1	1:D:2353:THR:OG1	2.54	0.56
1:A:128:SER:HA	1:A:445:PHE:CZ	2.41	0.55
1:A:2239:LYS:HZ3	1:A:2677:ARG:CD	2.09	0.55
1:A:2656:TYR:O	1:A:2660:GLU:HG2	2.05	0.55
1:C:442:ASP:CG	1:C:483:PHE:HE2	2.05	0.55
1:C:516:LEU:HD13	1:C:517:LYS:HE2	1.88	0.55
1:C:2433:SER:HA	1:C:2592:THR:HG21	1.88	0.55
1:C:2571:LEU:HD13	1:C:2572:LEU:HG	1.88	0.55
1:B:64:ASN:ND2	1:B:107:ASN:HD21	2.04	0.55
1:B:128:SER:HA	1:B:445:PHE:CZ	2.41	0.55
1:B:2240:ILE:O	1:B:2241:ASN:C	2.43	0.55
1:B:2348:VAL:HB	1:B:2353:THR:HG22	1.81	0.55
1:D:128:SER:HA	1:D:445:PHE:CZ	2.41	0.55
1:D:516:LEU:HD13	1:D:517:LYS:HE2	1.88	0.55
1:D:2407:PHE:N	1:D:2407:PHE:CD1	2.72	0.55
1:D:2425:GLU:CA	1:D:2428:LEU:HB3	2.36	0.55
1:D:2726:GLN:OE1	1:D:2726:GLN:HA	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:ASN:ND2	1:A:107:ASN:HD21	2.04	0.55
1:A:508:LYS:CE	1:A:511:ARG:HH11	2.15	0.55
1:A:2433:SER:C	1:A:2434:VAL:CG2	2.72	0.55
1:C:128:SER:HA	1:C:445:PHE:CZ	2.41	0.55
1:C:819:TYR:N	1:C:877:GLY:HA3	2.18	0.55
1:B:516:LEU:HD13	1:B:517:LYS:HE2	1.88	0.55
1:B:2012:GLY:O	1:B:2013:SER:C	2.45	0.55
1:B:2345:ILE:HD12	1:B:2353:THR:OG1	2.06	0.55
1:B:2388:LEU:HD23	1:B:2388:LEU:N	2.09	0.55
1:B:2433:SER:HA	1:B:2592:THR:HG21	1.88	0.55
1:B:2727:ARG:CZ	1:B:2727:ARG:CA	2.85	0.55
1:D:2103:ARG:C	1:D:2105:ASP:H	2.09	0.55
1:D:2239:LYS:HG2	1:D:2240:ILE:CD1	2.37	0.55
1:D:2281:PHE:HB2	1:D:2420:LEU:HD22	1.87	0.55
1:A:516:LEU:HD13	1:A:517:LYS:HE2	1.88	0.55
1:A:2425:GLU:CA	1:A:2428:LEU:HB3	2.36	0.55
1:A:2706:MET:HB3	1:D:2707:LYS:CD	2.36	0.55
1:A:2726:GLN:OE1	1:A:2726:GLN:HA	2.05	0.55
1:C:64:ASN:ND2	1:C:107:ASN:HD21	2.04	0.55
1:C:2427:LEU:HD21	1:B:2447:LEU:HD12	1.87	0.55
1:B:263:PHE:CE2	1:B:265:ARG:NE	2.58	0.55
1:B:2649:LYS:HA	1:B:2649:LYS:HZ3	1.66	0.55
1:B:2649:LYS:CE	1:B:2649:LYS:CA	2.84	0.55
1:D:310:THR:HB	1:D:312:HIS:HD2	1.72	0.55
1:D:2388:LEU:HD23	1:D:2388:LEU:N	2.09	0.55
1:D:2433:SER:C	1:D:2434:VAL:CG2	2.72	0.55
1:A:2345:ILE:CG2	1:A:2348:VAL:HG11	2.37	0.55
1:A:2349:GLY:C	1:A:2351:GLN:N	2.50	0.55
1:C:2345:ILE:CD1	1:C:2353:THR:OG1	2.54	0.55
1:C:2618:ARG:HD2	1:C:2628:PHE:HZ	1.68	0.55
1:C:2632:ILE:HD12	1:C:2633:LYS:HD2	1.89	0.55
1:B:185:ASN:ND2	1:B:190:GLY:O	2.39	0.55
1:B:441:ARG:CZ	1:B:441:ARG:CB	2.85	0.55
1:B:570:ASN:CB	1:B:571:GLN:OE1	2.36	0.55
1:B:646:PRO:C	1:B:650:GLU:H	2.08	0.55
1:B:2213:PRO:CD	1:B:2647:LEU:HD13	2.37	0.55
1:A:2345:ILE:CD1	1:A:2353:THR:OG1	2.54	0.55
1:A:2348:VAL:HG21	1:A:2353:THR:HG22	1.78	0.55
1:C:128:SER:HA	1:C:445:PHE:HZ	1.72	0.55
1:C:185:ASN:ND2	1:C:190:GLY:O	2.39	0.55
1:C:517:LYS:HA	1:C:517:LYS:HZ3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2191:LYS:O	1:C:2212:VAL:HG21	2.06	0.55
1:C:2239:LYS:HG2	1:C:2240:ILE:CD1	2.36	0.55
1:C:2345:ILE:HD12	1:C:2353:THR:OG1	2.06	0.55
1:C:2549:VAL:HG22	1:C:2574:PHE:HA	1.86	0.55
1:C:2576:MET:HE2	1:C:2580:ILE:CD1	2.36	0.55
1:C:2707:LYS:HE3	1:C:2711:ASN:OD1	2.06	0.55
1:C:2727:ARG:CZ	1:C:2727:ARG:CA	2.85	0.55
1:B:2356:LEU:HD12	1:B:2356:LEU:O	2.07	0.55
1:D:971:LYS:O	1:D:975:ILE:N	2.38	0.55
1:D:2727:ARG:CZ	1:D:2727:ARG:CA	2.85	0.55
1:A:969:ASP:O	1:A:973:LYS:N	2.36	0.55
1:A:2649:LYS:CE	1:A:2649:LYS:CA	2.85	0.55
1:C:974:ILE:O	1:C:978:LEU:N	2.35	0.55
1:B:78:PRO:CA	1:B:81:ASN:O	2.54	0.55
1:B:2286:LEU:HA	1:B:2289:LEU:HD11	1.88	0.55
1:B:2345:ILE:CG2	1:B:2348:VAL:HG11	2.37	0.55
1:B:2618:ARG:CZ	1:B:2618:ARG:CB	2.85	0.55
1:B:2632:ILE:HD12	1:B:2633:LYS:HD2	1.89	0.55
1:D:128:SER:HA	1:D:445:PHE:HZ	1.72	0.55
1:D:2239:LYS:CG	1:D:2240:ILE:N	2.54	0.55
1:D:2356:LEU:HD12	1:D:2356:LEU:O	2.07	0.55
1:A:269:ARG:CB	2:A:2801:JYP:C2	2.72	0.55
1:A:646:PRO:C	1:A:650:GLU:H	2.08	0.55
1:A:2243:PHE:CD1	1:A:2642:LEU:CD1	2.67	0.55
1:A:2710:THR:CG2	1:A:2711:ASN:ND2	2.64	0.55
1:A:2727:ARG:CZ	1:A:2727:ARG:CA	2.85	0.55
1:C:457:ALA:HB2	1:C:521:LYS:CD	2.37	0.55
1:C:2356:LEU:HD12	1:C:2356:LEU:O	2.07	0.55
1:C:2452:VAL:CG2	1:C:2573:PHE:CZ	2.88	0.55
1:B:1196:LYS:O	1:B:1200:GLN:N	2.40	0.55
1:D:270:GLN:C	1:D:272:ALA:H	2.10	0.55
1:D:580:PHE:CD1	1:D:580:PHE:N	2.73	0.55
1:D:2191:LYS:O	1:D:2212:VAL:HG21	2.06	0.55
1:D:2213:PRO:HA	1:D:2647:LEU:HD13	1.88	0.55
1:A:128:SER:HA	1:A:445:PHE:HZ	1.71	0.55
1:A:1817:SER:O	1:A:1821:PHE:N	2.36	0.55
1:A:2240:ILE:O	1:A:2241:ASN:C	2.43	0.55
1:C:78:PRO:CA	1:C:81:ASN:O	2.54	0.55
1:C:517:LYS:N	1:C:517:LYS:HE2	2.22	0.55
1:C:887:LEU:O	1:C:888:THR:C	2.42	0.55
1:C:2278:SER:O	1:C:2281:PHE:CG	2.58	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2365:LYS:HZ1	1:C:2395:HIS:CB	2.20	0.55
1:C:2368:PHE:HE2	1:C:2395:HIS:CB	2.10	0.55
1:C:2726:GLN:OE1	1:C:2726:GLN:HA	2.05	0.55
1:B:450:SER:HA	1:B:453:LEU:CG	2.37	0.55
1:B:2278:SER:O	1:B:2281:PHE:CG	2.58	0.55
1:D:78:PRO:CA	1:D:81:ASN:O	2.54	0.55
1:D:2452:VAL:CG2	1:D:2573:PHE:CZ	2.88	0.55
1:D:2549:VAL:CG2	1:D:2573:PHE:CD2	2.90	0.55
1:D:2576:MET:HE2	1:D:2580:ILE:HD12	1.88	0.55
1:A:310:THR:HB	1:A:312:HIS:HD2	1.72	0.55
1:A:568:ARG:N	1:A:571:GLN:HE22	2.05	0.55
1:A:576:LYS:O	1:A:580:PHE:HE1	1.90	0.55
1:A:2239:LYS:HG2	1:A:2240:ILE:CD1	2.37	0.55
1:A:2566:ARG:CZ	1:A:2566:ARG:CB	2.85	0.55
1:C:450:SER:HA	1:C:453:LEU:CG	2.37	0.55
1:C:486:GLY:CA	1:C:510:MET:HE3	2.36	0.55
1:C:2696:ARG:CZ	1:B:2696:ARG:NH2	2.69	0.55
1:B:128:SER:HA	1:B:445:PHE:HZ	1.72	0.55
1:B:508:LYS:CE	1:B:511:ARG:HH11	2.15	0.55
1:B:2549:VAL:HG22	1:B:2574:PHE:HA	1.86	0.55
1:D:457:ALA:HB2	1:D:521:LYS:CD	2.37	0.55
1:D:2571:LEU:HD13	1:D:2572:LEU:HG	1.88	0.55
1:D:2649:LYS:CE	1:D:2649:LYS:CA	2.84	0.55
1:A:450:SER:HA	1:A:453:LEU:CG	2.37	0.55
1:A:1836:ASN:O	1:A:1840:GLN:N	2.33	0.55
1:A:2012:GLY:O	1:A:2013:SER:C	2.45	0.55
1:A:2410:GLU:HB2	1:A:2411:PHE:CD1	2.42	0.55
1:C:567:TYR:CE1	2:C:2801:JYP:O8	2.61	0.55
1:C:2649:LYS:CE	1:C:2649:LYS:CA	2.84	0.55
1:B:64:ASN:HD21	1:B:107:ASN:ND2	2.05	0.55
1:B:567:TYR:CE1	2:B:2801:JYP:O8	2.60	0.55
1:B:965:ILE:O	1:B:969:ASP:N	2.40	0.55
1:B:2707:LYS:HE3	1:B:2711:ASN:OD1	2.06	0.55
1:D:64:ASN:HD21	1:D:107:ASN:ND2	2.05	0.55
1:D:998:LYS:O	1:D:999:ARG:C	2.43	0.55
1:D:1619:VAL:C	1:D:1621:ALA:H	2.05	0.55
1:D:2243:PHE:CD1	1:D:2642:LEU:CD1	2.67	0.55
1:A:185:ASN:ND2	1:A:190:GLY:O	2.39	0.54
1:A:457:ALA:HB2	1:A:521:LYS:CD	2.37	0.54
1:A:963:GLU:O	1:A:967:VAL:N	2.37	0.54
1:C:568:ARG:N	1:C:571:GLN:HE22	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:PHE:CD1	1:C:580:PHE:N	2.73	0.54
1:C:750:LEU:O	1:C:754:GLU:N	2.37	0.54
1:C:2549:VAL:CG2	1:C:2573:PHE:CD2	2.90	0.54
1:B:310:THR:HB	1:B:312:HIS:HD2	1.72	0.54
1:D:450:SER:HA	1:D:453:LEU:CG	2.37	0.54
1:D:508:LYS:CE	1:D:511:ARG:HH11	2.15	0.54
1:D:568:ARG:N	1:D:571:GLN:HE22	2.05	0.54
1:D:1809:ILE:O	1:D:1813:MET:N	2.40	0.54
1:D:2012:GLY:O	1:D:2013:SER:C	2.45	0.54
1:D:2348:VAL:HB	1:D:2353:THR:HG22	1.81	0.54
1:A:2033:ILE:O	1:A:2037:LEU:N	2.31	0.54
1:A:2213:PRO:HA	1:A:2647:LEU:HD13	1.88	0.54
1:A:2632:ILE:HD12	1:A:2633:LYS:HD2	1.89	0.54
1:C:64:ASN:HD21	1:C:107:ASN:ND2	2.05	0.54
1:C:1809:ILE:O	1:C:1813:MET:N	2.40	0.54
1:C:2213:PRO:CD	1:C:2647:LEU:HD13	2.37	0.54
1:B:1030:PHE:O	1:B:1034:GLU:N	2.38	0.54
1:B:1961:ALA:C	1:B:1963:ILE:N	2.59	0.54
1:B:2618:ARG:HD2	1:B:2628:PHE:HZ	1.69	0.54
1:D:58:PHE:HB3	1:D:123:LEU:HD22	1.89	0.54
1:D:263:PHE:CE2	1:D:265:ARG:NE	2.58	0.54
1:A:2412:PHE:O	1:A:2414:SER:CA	2.55	0.54
1:A:2583:ASN:HB3	1:B:2586:PHE:HE1	1.59	0.54
1:C:77:LYS:HD3	1:C:77:LYS:N	2.21	0.54
1:C:646:PRO:C	1:C:648:THR:H	1.72	0.54
1:C:2012:GLY:O	1:C:2013:SER:C	2.45	0.54
1:C:2272:ASN:ND2	1:C:2276:TRP:HZ2	2.06	0.54
1:B:77:LYS:N	1:B:77:LYS:HD3	2.21	0.54
1:B:998:LYS:O	1:B:999:ARG:C	2.43	0.54
1:B:2191:LYS:O	1:B:2212:VAL:HG21	2.06	0.54
1:B:2239:LYS:HG2	1:B:2240:ILE:CD1	2.37	0.54
1:B:2345:ILE:CD1	1:B:2353:THR:OG1	2.54	0.54
1:B:2398:TYR:CZ	1:B:2401:ILE:HG12	2.43	0.54
1:B:2559:GLU:C	1:B:2563:PHE:CE1	2.81	0.54
1:D:567:TYR:CE1	2:D:2801:JYP:O8	2.60	0.54
1:D:969:ASP:O	1:D:973:LYS:N	2.36	0.54
1:D:2345:ILE:HD12	1:D:2353:THR:OG1	2.06	0.54
1:D:2345:ILE:CG2	1:D:2348:VAL:HG11	2.37	0.54
1:D:2410:GLU:HB2	1:D:2411:PHE:CD1	2.43	0.54
1:D:2601:GLN:O	1:D:2605:GLU:N	2.41	0.54
1:A:1809:ILE:O	1:A:1813:MET:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:964:ASP:O	1:C:968:MET:N	2.37	0.54
1:C:2239:LYS:HZ2	1:C:2677:ARG:CD	2.16	0.54
1:B:104:GLU:O	1:B:106:GLU:N	2.33	0.54
1:B:281:LEU:HD22	1:B:308:LEU:HD22	1.89	0.54
1:D:2398:TYR:CZ	1:D:2401:ILE:HG12	2.43	0.54
1:D:2632:ILE:HD12	1:D:2633:LYS:HD2	1.89	0.54
1:A:243:PHE:HA	1:A:250:PHE:HA	1.90	0.54
1:A:517:LYS:N	1:A:517:LYS:HE2	2.22	0.54
1:A:2216:CYS:HG	1:A:2646:VAL:HG21	1.72	0.54
1:A:2295:TYR:CD1	1:D:2532:LEU:HD22	2.42	0.54
1:A:2406:LEU:HD13	1:A:2407:PHE:CE1	2.43	0.54
1:A:2649:LYS:HA	1:A:2649:LYS:HZ3	1.70	0.54
1:C:653:CYS:O	1:C:657:LEU:N	2.31	0.54
1:C:998:LYS:O	1:C:999:ARG:C	2.43	0.54
1:C:2345:ILE:CD1	1:C:2356:LEU:HD23	2.16	0.54
1:C:2601:GLN:O	1:C:2605:GLU:N	2.41	0.54
1:C:2720:LYS:HD3	1:B:2725:GLU:OE1	2.07	0.54
1:B:64:ASN:HD21	1:B:107:ASN:HD21	1.55	0.54
1:B:1796:GLN:O	1:B:1800:ASP:N	2.41	0.54
1:B:2601:GLN:O	1:B:2605:GLU:N	2.41	0.54
1:B:2716:LEU:HD23	1:B:2716:LEU:N	2.04	0.54
1:D:90:ASN:CA	1:D:93:HIS:CE1	2.80	0.54
1:D:570:ASN:CB	1:D:571:GLN:OE1	2.36	0.54
1:D:2213:PRO:CD	1:D:2647:LEU:HD13	2.37	0.54
1:D:2433:SER:HA	1:D:2592:THR:HG21	1.88	0.54
1:A:19:ALA:HB3	1:A:25:GLY:H	1.73	0.54
1:A:965:ILE:O	1:A:969:ASP:N	2.40	0.54
1:A:998:LYS:O	1:A:999:ARG:C	2.43	0.54
1:C:64:ASN:HD21	1:C:107:ASN:HD21	1.55	0.54
1:C:1196:LYS:O	1:C:1200:GLN:N	2.40	0.54
1:C:2345:ILE:CG2	1:C:2348:VAL:HG11	2.37	0.54
1:C:2407:PHE:N	1:C:2407:PHE:CD1	2.72	0.54
1:C:2410:GLU:HB2	1:C:2411:PHE:CD1	2.42	0.54
1:B:576:LYS:O	1:B:580:PHE:HE1	1.90	0.54
1:B:1809:ILE:O	1:B:1813:MET:N	2.40	0.54
1:B:2549:VAL:CG2	1:B:2573:PHE:CD2	2.90	0.54
1:D:185:ASN:ND2	1:D:190:GLY:O	2.39	0.54
1:D:2272:ASN:ND2	1:D:2276:TRP:HZ2	2.06	0.54
1:A:2345:ILE:HD12	1:A:2353:THR:OG1	2.06	0.54
1:A:2566:ARG:NH1	1:A:2566:ARG:CG	2.71	0.54
1:A:2601:GLN:O	1:A:2605:GLU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2618:ARG:CZ	1:A:2618:ARG:CB	2.85	0.54
1:C:2243:PHE:CD1	1:C:2642:LEU:CD1	2.67	0.54
1:C:2276:TRP:HE3	1:C:2367:ILE:HD13	1.73	0.54
1:B:313:TYR:N	1:B:358:VAL:O	2.41	0.54
1:B:486:GLY:CA	1:B:510:MET:CE	2.86	0.54
1:B:568:ARG:N	1:B:571:GLN:HE22	2.05	0.54
1:D:486:GLY:CA	1:D:510:MET:CE	2.86	0.54
1:A:1796:GLN:O	1:A:1800:ASP:N	2.41	0.54
1:A:2276:TRP:HE3	1:A:2367:ILE:HD13	1.73	0.54
1:A:2356:LEU:HD12	1:A:2356:LEU:O	2.07	0.54
1:A:2549:VAL:CG2	1:A:2573:PHE:CD2	2.90	0.54
1:A:2559:GLU:C	1:A:2563:PHE:CE1	2.81	0.54
1:C:73:TRP:C	1:C:75:ALA:N	2.58	0.54
1:C:281:LEU:HD22	1:C:308:LEU:HD22	1.89	0.54
1:C:380:SER:O	1:C:380:SER:OG	2.24	0.54
1:C:2528:CYS:HA	1:B:2558:LYS:NZ	2.22	0.54
1:C:2715:GLN:OE1	1:C:2718:GLU:CD	2.42	0.54
1:B:457:ALA:HB2	1:B:521:LYS:CD	2.37	0.54
1:D:576:LYS:O	1:D:580:PHE:HE1	1.90	0.54
1:D:1030:PHE:O	1:D:1034:GLU:N	2.39	0.54
1:D:1196:LYS:O	1:D:1200:GLN:N	2.40	0.54
1:D:2235:GLU:HG3	1:D:2236:GLN:HG3	1.90	0.54
1:D:2566:ARG:CZ	1:D:2566:ARG:CB	2.85	0.54
1:A:1619:VAL:C	1:A:1621:ALA:H	2.05	0.54
1:A:2356:LEU:HG	1:A:2357:LEU:HD23	1.90	0.54
1:A:2433:SER:HA	1:A:2592:THR:HG21	1.88	0.54
1:C:508:LYS:CE	1:C:511:ARG:HH11	2.15	0.54
1:C:2559:GLU:C	1:C:2563:PHE:CE1	2.81	0.54
1:C:2707:LYS:NZ	1:D:2706:MET:O	2.41	0.54
1:B:252:THR:N	1:B:263:PHE:O	2.36	0.54
1:B:2351:GLN:HG3	1:B:2355:PHE:CZ	2.43	0.54
1:D:19:ALA:HB3	1:D:25:GLY:H	1.73	0.54
1:D:281:LEU:HD22	1:D:308:LEU:HD22	1.89	0.54
1:D:1961:ALA:O	1:D:1962:VAL:O	2.26	0.54
1:A:567:TYR:CE1	2:A:2801:JYP:O8	2.60	0.54
1:A:1196:LYS:O	1:A:1200:GLN:N	2.40	0.54
1:A:2357:LEU:HA	1:A:2360:PHE:CE1	2.43	0.54
1:A:2616:LEU:HD11	1:A:2621:PHE:CD2	2.43	0.54
1:C:1356:GLN:N	1:C:1416:ILE:O	2.38	0.54
1:C:1836:ASN:O	1:C:1840:GLN:N	2.33	0.54
1:C:1961:ALA:O	1:C:1962:VAL:O	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2213:PRO:HG2	1:C:2647:LEU:N	2.22	0.54
1:C:2398:TYR:CZ	1:C:2401:ILE:HG12	2.43	0.54
1:B:76:ALA:HB3	1:B:77:LYS:HE3	1.90	0.54
1:B:646:PRO:C	1:B:648:THR:H	1.73	0.54
1:B:2216:CYS:HG	1:B:2646:VAL:CG2	2.21	0.54
1:B:2272:ASN:ND2	1:B:2276:TRP:HZ2	2.06	0.54
1:B:2276:TRP:HE3	1:B:2367:ILE:HD13	1.73	0.54
1:B:2410:GLU:HB2	1:B:2411:PHE:CD1	2.42	0.54
1:B:2425:GLU:CA	1:B:2428:LEU:HB3	2.36	0.54
1:D:441:ARG:CZ	1:D:441:ARG:CB	2.85	0.54
1:D:1209:GLY:HA3	1:D:1259:ILE:CA	2.38	0.54
1:D:1796:GLN:O	1:D:1800:ASP:N	2.41	0.54
1:D:2356:LEU:HG	1:D:2357:LEU:HD23	1.90	0.54
1:D:2406:LEU:HD13	1:D:2407:PHE:CE1	2.43	0.54
1:A:281:LEU:HD22	1:A:308:LEU:HD22	1.89	0.53
1:A:887:LEU:O	1:A:888:THR:C	2.42	0.53
1:A:2398:TYR:CZ	1:A:2401:ILE:HG12	2.43	0.53
1:A:2706:MET:O	1:D:2707:LYS:NZ	2.41	0.53
1:C:76:ALA:HB3	1:C:77:LYS:HE3	1.90	0.53
1:C:270:GLN:C	1:C:272:ALA:H	2.10	0.53
1:C:450:SER:HA	1:C:453:LEU:CD1	2.38	0.53
1:C:2356:LEU:HG	1:C:2357:LEU:HD23	1.90	0.53
1:B:517:LYS:N	1:B:517:LYS:HE2	2.22	0.53
1:D:750:LEU:O	1:D:754:GLU:N	2.37	0.53
1:D:965:ILE:O	1:D:969:ASP:N	2.40	0.53
1:D:2276:TRP:HE3	1:D:2367:ILE:HD13	1.73	0.53
1:A:64:ASN:HD21	1:A:107:ASN:ND2	2.05	0.53
1:A:486:GLY:CA	1:A:510:MET:CE	2.86	0.53
1:A:1209:GLY:HA3	1:A:1259:ILE:CA	2.38	0.53
1:C:243:PHE:HA	1:C:250:PHE:HA	1.90	0.53
1:C:646:PRO:C	1:C:650:GLU:H	2.08	0.53
1:C:969:ASP:O	1:C:973:LYS:N	2.36	0.53
1:C:2285:VAL:CG2	1:C:2417:LEU:CD1	2.61	0.53
1:C:2549:VAL:HG21	1:C:2573:PHE:CD2	2.44	0.53
1:B:58:PHE:HB3	1:B:123:LEU:HD22	1.90	0.53
1:B:1209:GLY:HA3	1:B:1259:ILE:CA	2.38	0.53
1:B:2204:THR:O	1:B:2679:ARG:NH2	2.41	0.53
1:B:2356:LEU:HG	1:B:2357:LEU:HD23	1.90	0.53
1:B:2576:MET:HE1	1:B:2580:ILE:CD1	2.37	0.53
1:D:64:ASN:HD21	1:D:107:ASN:HD21	1.55	0.53
1:A:2213:PRO:CD	1:A:2647:LEU:HD13	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2351:GLN:HG3	1:A:2355:PHE:CZ	2.43	0.53
1:C:1097:PHE:C	1:C:1099:GLN:N	2.61	0.53
1:C:2682:SER:HB2	1:C:2683:LEU:HD13	1.91	0.53
1:B:2215:ILE:O	1:B:2254:MET:HE1	2.09	0.53
1:B:2348:VAL:HG11	1:B:2353:THR:HG1	1.67	0.53
1:B:2357:LEU:HA	1:B:2360:PHE:CE1	2.43	0.53
1:D:244:HIS:NE2	1:D:427:LYS:O	2.41	0.53
1:D:450:SER:HA	1:D:453:LEU:CD1	2.38	0.53
1:D:2351:GLN:HG3	1:D:2355:PHE:CZ	2.43	0.53
1:D:2357:LEU:HA	1:D:2360:PHE:CE1	2.43	0.53
1:A:58:PHE:HB3	1:A:123:LEU:HD22	1.90	0.53
1:A:2682:SER:HB2	1:A:2683:LEU:HD13	1.91	0.53
1:A:2737:GLY:O	1:B:393:LEU:HD21	2.09	0.53
1:C:313:TYR:N	1:C:358:VAL:O	2.41	0.53
1:C:1209:GLY:HA3	1:C:1259:ILE:CA	2.38	0.53
1:C:2425:GLU:CA	1:C:2428:LEU:HB3	2.36	0.53
1:B:2566:ARG:CZ	1:B:2566:ARG:CB	2.85	0.53
1:D:270:GLN:HE21	1:D:271:SER:N	1.96	0.53
1:A:76:ALA:HB3	1:A:77:LYS:HE3	1.90	0.53
1:A:514:ASN:C	1:A:516:LEU:H	2.05	0.53
1:A:2046:GLY:O	1:A:2047:PRO:C	2.46	0.53
1:A:2272:ASN:ND2	1:A:2276:TRP:HZ2	2.06	0.53
1:A:2624:LYS:NZ	1:A:2624:LYS:CB	2.72	0.53
1:C:576:LYS:O	1:C:580:PHE:HE1	1.90	0.53
1:C:1116:LYS:O	1:C:1117:GLN:C	2.47	0.53
1:C:1796:GLN:O	1:C:1800:ASP:N	2.41	0.53
1:C:2243:PHE:HE2	1:C:2638:MET:HB3	1.50	0.53
1:B:520:PHE:HE1	1:B:523:LEU:CD1	2.13	0.53
1:B:887:LEU:O	1:B:888:THR:C	2.42	0.53
1:B:2235:GLU:HG3	1:B:2236:GLN:HG3	1.90	0.53
1:B:2406:LEU:HD13	1:B:2407:PHE:CE1	2.43	0.53
1:D:74:LYS:CE	1:D:74:LYS:CA	2.85	0.53
1:D:269:ARG:CB	2:D:2801:JYP:C2	2.72	0.53
1:D:517:LYS:N	1:D:517:LYS:HE2	2.22	0.53
1:D:2549:VAL:HG21	1:D:2573:PHE:CD2	2.44	0.53
1:D:2559:GLU:C	1:D:2563:PHE:CE1	2.81	0.53
1:D:2618:ARG:CZ	1:D:2618:ARG:CB	2.85	0.53
1:D:2642:LEU:CD1	1:D:2642:LEU:N	2.72	0.53
1:A:161:PHE:HB3	1:A:184:LEU:HD22	1.91	0.53
1:A:313:TYR:N	1:A:358:VAL:O	2.41	0.53
1:A:2191:LYS:O	1:A:2212:VAL:HG21	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2278:SER:O	1:A:2281:PHE:CG	2.58	0.53
1:C:965:ILE:O	1:C:969:ASP:N	2.40	0.53
1:B:2612:PHE:CZ	1:B:2638:MET:CE	2.91	0.53
1:B:2616:LEU:HD11	1:B:2621:PHE:CD2	2.44	0.53
1:D:73:TRP:C	1:D:75:ALA:N	2.58	0.53
1:D:252:THR:N	1:D:263:PHE:O	2.36	0.53
1:D:646:PRO:C	1:D:650:GLU:H	2.08	0.53
1:A:8:PHE:HB2	1:A:178:ILE:HD11	1.91	0.53
1:A:64:ASN:HD21	1:A:107:ASN:HD21	1.55	0.53
1:A:78:PRO:CA	1:A:81:ASN:O	2.54	0.53
1:A:269:ARG:HB3	2:A:2801:JYP:C2	2.28	0.53
1:A:2625:THR:HG23	1:A:2626:VAL:HG23	1.90	0.53
1:C:104:GLU:O	1:C:106:GLU:N	2.33	0.53
1:C:517:LYS:HA	1:C:517:LYS:HZ2	1.70	0.53
1:C:2103:ARG:O	1:C:2105:ASP:N	2.39	0.53
1:C:2204:THR:O	1:C:2679:ARG:NH2	2.41	0.53
1:B:19:ALA:HB3	1:B:25:GLY:H	1.73	0.53
1:B:161:PHE:HB3	1:B:184:LEU:HD22	1.91	0.53
1:B:447:ASN:HB2	1:B:513:GLN:OE1	2.09	0.53
1:B:1795:VAL:O	1:B:1799:LEU:N	2.39	0.53
1:B:1961:ALA:O	1:B:1962:VAL:O	2.26	0.53
1:D:239:VAL:HG12	1:D:283:GLU:HB2	1.91	0.53
1:A:974:ILE:O	1:A:978:LEU:N	2.35	0.53
1:A:1961:ALA:C	1:A:1963:ILE:N	2.59	0.53
1:A:2586:PHE:CA	1:D:2583:ASN:HD22	2.20	0.53
1:A:2707:LYS:NZ	1:B:2706:MET:O	2.42	0.53
1:C:310:THR:HB	1:C:312:HIS:HD2	1.72	0.53
1:C:2625:THR:HG23	1:C:2626:VAL:HG23	1.90	0.53
1:B:85:ASP:HA	1:B:89:LEU:HD12	1.91	0.53
1:B:2243:PHE:HZ	1:B:2638:MET:CB	2.03	0.53
1:B:2625:THR:HG23	1:B:2626:VAL:HG23	1.90	0.53
1:D:76:ALA:HB3	1:D:77:LYS:HE3	1.90	0.53
1:D:1116:LYS:O	1:D:1117:GLN:C	2.47	0.53
1:D:2616:LEU:HD11	1:D:2621:PHE:CD2	2.43	0.53
1:D:2682:SER:HB2	1:D:2683:LEU:HD13	1.91	0.53
1:D:2715:GLN:OE1	1:D:2718:GLU:CD	2.42	0.53
1:A:2365:LYS:HG2	1:A:2399:LEU:HA	1.91	0.53
1:A:2549:VAL:HG21	1:A:2573:PHE:CD2	2.44	0.53
1:C:447:ASN:HB2	1:C:513:GLN:OE1	2.09	0.53
1:C:486:GLY:CA	1:C:510:MET:CE	2.86	0.53
1:C:1619:VAL:O	1:C:1620:GLN:C	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2406:LEU:HD13	1:C:2407:PHE:CE1	2.43	0.53
1:B:243:PHE:HA	1:B:250:PHE:HA	1.90	0.53
1:B:244:HIS:NE2	1:B:427:LYS:O	2.41	0.53
1:B:2365:LYS:HG2	1:B:2399:LEU:HA	1.91	0.53
1:B:2411:PHE:O	1:B:2413:TYR:CD2	2.62	0.53
1:B:2642:LEU:CD1	1:B:2642:LEU:N	2.72	0.53
1:B:2682:SER:HB2	1:B:2683:LEU:HD13	1.91	0.53
1:B:2707:LYS:CD	1:B:2711:ASN:HD21	2.19	0.53
1:D:249:LYS:CB	1:D:264:LEU:HD13	2.39	0.53
1:A:1961:ALA:O	1:A:1962:VAL:O	2.26	0.53
1:A:2204:THR:O	1:A:2679:ARG:NH2	2.41	0.53
1:A:2558:LYS:C	1:A:2560:GLU:N	2.53	0.53
1:C:117:TYR:HB2	1:C:173:GLY:H	1.74	0.53
1:C:2250:LEU:HD13	1:C:2250:LEU:C	2.28	0.53
1:C:2351:GLN:HG3	1:C:2355:PHE:CZ	2.43	0.53
1:B:2281:PHE:HB3	1:B:2420:LEU:HD22	1.91	0.53
1:A:2235:GLU:HG3	1:A:2236:GLN:HG3	1.90	0.52
1:A:2289:LEU:N	1:A:2289:LEU:CD1	2.72	0.52
1:A:2351:GLN:N	1:A:2352:PRO:CD	2.72	0.52
1:A:2583:ASN:ND2	1:B:2586:PHE:CD1	2.78	0.52
1:C:191:GLN:O	1:C:211:SER:OG	2.27	0.52
1:C:244:HIS:NE2	1:C:427:LYS:O	2.41	0.52
1:C:568:ARG:CA	1:C:571:GLN:HE22	2.23	0.52
1:C:2192:HIS:NE2	1:C:2210:PHE:O	2.42	0.52
1:B:74:LYS:CE	1:B:74:LYS:CA	2.85	0.52
1:B:117:TYR:HB2	1:B:173:GLY:H	1.74	0.52
1:B:1126:VAL:O	1:B:1130:GLU:N	2.27	0.52
1:B:2046:GLY:O	1:B:2047:PRO:C	2.46	0.52
1:B:2549:VAL:HG21	1:B:2573:PHE:CD2	2.44	0.52
1:D:514:ASN:C	1:D:516:LEU:H	2.05	0.52
1:D:2192:HIS:NE2	1:D:2210:PHE:O	2.42	0.52
1:D:2213:PRO:CG	1:D:2647:LEU:CG	2.70	0.52
1:A:23:THR:HG21	1:A:207:ASN:HD22	1.74	0.52
1:A:73:TRP:C	1:A:75:ALA:N	2.58	0.52
1:A:191:GLN:O	1:A:211:SER:OG	2.27	0.52
1:A:582:GLN:NE2	1:A:582:GLN:CA	2.72	0.52
1:C:161:PHE:HB3	1:C:184:LEU:HD22	1.91	0.52
1:C:449:ALA:C	1:C:453:LEU:CG	2.59	0.52
1:C:2357:LEU:HA	1:C:2360:PHE:CE1	2.43	0.52
1:C:2388:LEU:CD2	1:C:2388:LEU:H	1.93	0.52
1:C:2576:MET:HE2	1:C:2580:ILE:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2616:LEU:HD11	1:C:2621:PHE:CD2	2.43	0.52
1:C:2618:ARG:CZ	1:C:2618:ARG:CB	2.85	0.52
1:B:90:ASN:CA	1:B:93:HIS:CE1	2.80	0.52
1:B:514:ASN:CB	1:B:517:LYS:H	2.21	0.52
1:B:750:LEU:O	1:B:754:GLU:N	2.37	0.52
1:D:23:THR:HG21	1:D:207:ASN:HD22	1.74	0.52
1:D:313:TYR:N	1:D:358:VAL:O	2.41	0.52
1:D:2204:THR:O	1:D:2679:ARG:NH2	2.41	0.52
1:D:2287:MET:O	1:D:2290:LEU:HB2	2.08	0.52
1:D:2624:LYS:NZ	1:D:2624:LYS:CB	2.72	0.52
1:A:2573:PHE:CD1	1:A:2577:VAL:CG2	2.93	0.52
1:C:88:LEU:CA	1:C:92:LEU:HD11	2.39	0.52
1:C:2281:PHE:HB3	1:C:2420:LEU:HD22	1.91	0.52
1:C:2612:PHE:CZ	1:C:2638:MET:CE	2.91	0.52
1:C:2624:LYS:NZ	1:C:2624:LYS:CB	2.72	0.52
1:C:2642:LEU:CD1	1:C:2642:LEU:N	2.72	0.52
1:B:8:PHE:HB2	1:B:178:ILE:HD11	1.91	0.52
1:D:38:VAL:HB	1:D:206:CYS:HB3	1.92	0.52
1:D:554:ARG:HH11	1:D:554:ARG:CG	2.12	0.52
1:D:2411:PHE:O	1:D:2413:TYR:CD2	2.62	0.52
1:A:2713:SER:HB3	1:D:2715:GLN:NE2	2.11	0.52
1:C:19:ALA:HB3	1:C:25:GLY:H	1.73	0.52
1:C:2360:PHE:O	1:C:2364:ASN:N	2.38	0.52
1:B:438:ALA:HA	1:B:441:ARG:HH22	1.75	0.52
1:D:161:PHE:HB3	1:D:184:LEU:HD22	1.91	0.52
1:D:191:GLN:O	1:D:211:SER:OG	2.28	0.52
1:D:447:ASN:HB2	1:D:513:GLN:OE1	2.09	0.52
1:D:510:MET:C	1:D:515:ILE:HG21	2.28	0.52
1:D:2625:THR:HG23	1:D:2626:VAL:HG23	1.90	0.52
1:A:1356:GLN:N	1:A:1416:ILE:O	2.38	0.52
1:A:2184:GLU:N	1:A:2184:GLU:OE1	2.43	0.52
1:A:2192:HIS:NE2	1:A:2210:PHE:O	2.42	0.52
1:A:2612:PHE:CZ	1:A:2638:MET:CE	2.91	0.52
1:C:58:PHE:HB3	1:C:123:LEU:HD22	1.90	0.52
1:C:441:ARG:CZ	1:C:441:ARG:CB	2.85	0.52
1:C:1795:VAL:O	1:C:1799:LEU:N	2.39	0.52
1:C:2235:GLU:HG3	1:C:2236:GLN:HG3	1.90	0.52
1:C:2271:ARG:CZ	1:C:2272:ASN:HD21	2.14	0.52
1:C:2411:PHE:O	1:C:2413:TYR:CD2	2.62	0.52
1:C:2566:ARG:NH1	1:C:2566:ARG:CG	2.71	0.52
1:C:2707:LYS:CD	1:C:2711:ASN:HD21	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1456:VAL:C	1:B:1507:PRO:O	2.47	0.52
1:B:2213:PRO:HG2	1:B:2647:LEU:N	2.22	0.52
1:B:2389:ASP:HA	1:B:2392:PHE:CE1	2.44	0.52
1:A:571:GLN:HB3	1:A:574:ILE:CD1	2.38	0.52
1:A:2388:LEU:HD23	1:A:2388:LEU:N	2.09	0.52
1:C:23:THR:HG21	1:C:207:ASN:HD22	1.74	0.52
1:C:249:LYS:CB	1:C:264:LEU:HD13	2.39	0.52
1:C:2566:ARG:NH1	1:C:2566:ARG:CB	2.73	0.52
1:C:2571:LEU:C	1:C:2571:LEU:HD22	2.30	0.52
1:B:2192:HIS:NE2	1:B:2210:PHE:O	2.42	0.52
1:B:2239:LYS:HZ2	1:B:2677:ARG:CD	2.21	0.52
1:B:2365:LYS:HZ1	1:B:2368:PHE:HD2	1.48	0.52
1:B:2622:ASP:OD1	1:B:2628:PHE:CG	2.55	0.52
1:D:1097:PHE:C	1:D:1099:GLN:N	2.61	0.52
1:D:2425:GLU:O	1:D:2429:ASN:N	2.43	0.52
1:D:2571:LEU:HD22	1:D:2571:LEU:C	2.30	0.52
1:A:2186:LEU:HD23	1:A:2189:TYR:CD2	2.45	0.52
1:A:2365:LYS:HZ1	1:A:2395:HIS:CB	2.21	0.52
1:C:507:GLN:CG	1:C:567:TYR:CE1	2.76	0.52
1:C:1456:VAL:C	1:C:1507:PRO:O	2.47	0.52
1:C:2186:LEU:HD23	1:C:2189:TYR:CD2	2.45	0.52
1:C:2389:ASP:HA	1:C:2392:PHE:CE1	2.44	0.52
1:C:2706:MET:O	1:B:2707:LYS:CE	2.57	0.52
1:B:569:LYS:HB2	2:B:2801:JYP:O14	2.10	0.52
1:B:2186:LEU:HD23	1:B:2189:TYR:CD2	2.45	0.52
1:D:8:PHE:HB2	1:D:178:ILE:HD11	1.91	0.52
1:D:77:LYS:N	1:D:77:LYS:CD	2.72	0.52
1:D:509:LEU:HA	1:D:512:GLU:CB	2.39	0.52
1:D:2186:LEU:HD23	1:D:2189:TYR:CD2	2.45	0.52
1:D:2350:LEU:CD2	1:D:2350:LEU:N	2.73	0.52
1:D:2412:PHE:O	1:D:2414:SER:CA	2.56	0.52
1:D:2575:PHE:CD1	1:D:2575:PHE:C	2.83	0.52
1:A:85:ASP:HA	1:A:89:LEU:HD12	1.91	0.52
1:A:239:VAL:HG12	1:A:283:GLU:HB2	1.91	0.52
1:A:2213:PRO:HG2	1:A:2647:LEU:N	2.22	0.52
1:C:453:LEU:CB	1:C:521:LYS:HZ3	2.23	0.52
1:C:569:LYS:HB2	2:C:2801:JYP:O14	2.10	0.52
1:C:2365:LYS:HG2	1:C:2399:LEU:HA	1.91	0.52
1:B:2360:PHE:O	1:B:2364:ASN:CG	2.49	0.52
1:B:2736:LEU:HD23	1:B:2736:LEU:C	2.30	0.52
1:D:88:LEU:CA	1:D:92:LEU:HD11	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:LYS:CB	1:A:264:LEU:HD13	2.39	0.52
1:A:568:ARG:CA	1:A:571:GLN:HE22	2.23	0.52
1:A:1116:LYS:O	1:A:1117:GLN:C	2.47	0.52
1:A:2281:PHE:HB3	1:A:2420:LEU:HD22	1.91	0.52
1:A:2642:LEU:CD1	1:A:2642:LEU:N	2.72	0.52
1:B:191:GLN:O	1:B:211:SER:OG	2.27	0.52
1:B:450:SER:N	1:B:453:LEU:HG	2.24	0.52
1:B:568:ARG:CA	1:B:571:GLN:HE22	2.23	0.52
1:B:582:GLN:NE2	1:B:582:GLN:CA	2.72	0.52
1:B:1116:LYS:O	1:B:1117:GLN:C	2.47	0.52
1:B:2571:LEU:C	1:B:2571:LEU:HD22	2.30	0.52
1:D:2365:LYS:HG2	1:D:2399:LEU:HA	1.91	0.52
1:A:88:LEU:CA	1:A:92:LEU:HD11	2.39	0.52
1:A:199:GLN:NE2	1:A:203:ASN:O	2.43	0.52
1:A:514:ASN:CB	1:A:517:LYS:H	2.21	0.52
1:A:2365:LYS:HZ3	1:A:2395:HIS:HA	1.74	0.52
1:A:2411:PHE:O	1:A:2413:TYR:CD2	2.62	0.52
1:C:8:PHE:HB2	1:C:178:ILE:HD11	1.91	0.52
1:C:239:VAL:HG12	1:C:283:GLU:HB2	1.91	0.52
1:B:2345:ILE:CG2	1:B:2348:VAL:CG1	2.88	0.52
1:B:2412:PHE:O	1:B:2414:SER:CA	2.56	0.52
1:B:2566:ARG:NH1	1:B:2566:ARG:CB	2.73	0.52
1:D:243:PHE:HA	1:D:250:PHE:HA	1.90	0.52
1:D:887:LEU:O	1:D:888:THR:C	2.42	0.52
1:D:2184:GLU:N	1:D:2184:GLU:OE1	2.43	0.52
1:D:2213:PRO:HG2	1:D:2647:LEU:N	2.22	0.52
1:D:2389:ASP:HA	1:D:2392:PHE:CE1	2.44	0.52
1:D:2612:PHE:CZ	1:D:2638:MET:CE	2.91	0.52
1:A:77:LYS:N	1:A:77:LYS:CD	2.72	0.51
1:A:116:GLN:HA	1:A:175:SER:HA	1.92	0.51
1:A:1030:PHE:O	1:A:1034:GLU:N	2.39	0.51
1:A:1795:VAL:O	1:A:1799:LEU:N	2.39	0.51
1:A:2425:GLU:O	1:A:2429:ASN:N	2.43	0.51
1:A:2452:VAL:CG2	1:A:2573:PHE:CZ	2.88	0.51
1:A:2715:GLN:CD	1:B:2713:SER:HB3	2.30	0.51
1:C:77:LYS:N	1:C:77:LYS:CD	2.72	0.51
1:C:2436:ARG:NH2	1:C:2595:ASP:OD2	2.43	0.51
1:B:77:LYS:N	1:B:77:LYS:CD	2.72	0.51
1:B:88:LEU:CA	1:B:92:LEU:HD11	2.39	0.51
1:B:249:LYS:CB	1:B:264:LEU:HD13	2.39	0.51
1:B:2289:LEU:N	1:B:2289:LEU:CD1	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2436:ARG:NH2	1:B:2595:ASP:OD2	2.43	0.51
2:B:2801:JYP:O16	2:B:2801:JYP:C11	2.59	0.51
1:D:62:PRO:HB2	1:D:107:ASN:OD1	2.10	0.51
1:D:117:TYR:HB2	1:D:173:GLY:H	1.74	0.51
1:D:1813:MET:CA	1:D:1853:SER:CA	2.89	0.51
1:D:2281:PHE:HB3	1:D:2420:LEU:HD22	1.91	0.51
1:D:2345:ILE:CG2	1:D:2348:VAL:CG1	2.88	0.51
1:A:104:GLU:O	1:A:106:GLU:N	2.33	0.51
1:A:117:TYR:HB2	1:A:173:GLY:H	1.74	0.51
1:A:450:SER:HA	1:A:453:LEU:CD1	2.38	0.51
1:A:2389:ASP:HA	1:A:2392:PHE:CE1	2.44	0.51
1:A:2736:LEU:HD23	1:A:2736:LEU:C	2.30	0.51
1:C:88:LEU:CD1	1:C:88:LEU:N	2.72	0.51
1:C:438:ALA:HA	1:C:441:ARG:HH22	1.75	0.51
1:B:73:TRP:C	1:B:75:ALA:N	2.58	0.51
1:B:509:LEU:HA	1:B:512:GLU:CB	2.39	0.51
1:B:2285:VAL:CG2	1:B:2417:LEU:CD1	2.61	0.51
1:B:2576:MET:HE2	1:B:2580:ILE:CD1	2.41	0.51
1:D:514:ASN:C	1:D:517:LYS:H	2.14	0.51
1:D:569:LYS:HB2	2:D:2801:JYP:O14	2.10	0.51
1:D:998:LYS:O	1:D:1002:ASP:N	2.33	0.51
1:D:1795:VAL:O	1:D:1799:LEU:N	2.39	0.51
1:D:2250:LEU:HD13	1:D:2250:LEU:C	2.28	0.51
1:D:2360:PHE:O	1:D:2364:ASN:CG	2.48	0.51
1:D:2436:ARG:NH2	1:D:2595:ASP:OD2	2.43	0.51
1:D:2736:LEU:HD23	1:D:2736:LEU:C	2.30	0.51
1:A:62:PRO:HB2	1:A:107:ASN:OD1	2.10	0.51
1:C:514:ASN:C	1:C:517:LYS:H	2.14	0.51
1:C:2184:GLU:OE1	1:C:2184:GLU:N	2.43	0.51
1:C:2425:GLU:O	1:C:2429:ASN:N	2.43	0.51
1:B:449:ALA:C	1:B:453:LEU:CG	2.58	0.51
1:B:2184:GLU:OE1	1:B:2184:GLU:N	2.43	0.51
1:D:964:ASP:O	1:D:968:MET:N	2.36	0.51
1:A:38:VAL:HB	1:A:206:CYS:HB3	1.92	0.51
1:A:517:LYS:HA	1:A:517:LYS:HZ3	1.76	0.51
1:A:554:ARG:HH11	1:A:554:ARG:CG	2.12	0.51
1:A:1813:MET:CA	1:A:1853:SER:CA	2.89	0.51
1:A:2695:LEU:N	1:A:2695:LEU:CD1	2.74	0.51
1:C:38:VAL:HB	1:C:206:CYS:HB3	1.92	0.51
1:C:164:GLN:O	1:C:183:VAL:N	2.44	0.51
1:C:269:ARG:HB3	2:C:2801:JYP:C2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2350:LEU:N	1:C:2350:LEU:CD2	2.73	0.51
1:B:23:THR:HG21	1:B:207:ASN:HD22	1.74	0.51
1:B:963:GLU:O	1:B:967:VAL:N	2.37	0.51
1:D:116:GLN:HA	1:D:175:SER:HA	1.92	0.51
1:D:2573:PHE:CD1	1:D:2577:VAL:CG2	2.92	0.51
1:A:199:GLN:NE2	1:A:200:LEU:O	2.44	0.51
1:C:85:ASP:HA	1:C:89:LEU:HD12	1.91	0.51
1:C:2699:GLN:HB3	1:D:2699:GLN:OE1	2.08	0.51
2:C:2801:JYP:O16	2:C:2801:JYP:C11	2.59	0.51
1:B:199:GLN:NE2	1:B:200:LEU:O	2.44	0.51
1:B:199:GLN:NE2	1:B:203:ASN:O	2.43	0.51
1:B:450:SER:HA	1:B:453:LEU:CD1	2.38	0.51
1:B:2573:PHE:CD1	1:B:2577:VAL:CG2	2.92	0.51
1:D:582:GLN:NE2	1:D:582:GLN:CA	2.72	0.51
1:D:2391:GLU:OE1	1:D:2391:GLU:HA	2.11	0.51
1:D:2566:ARG:NH1	1:D:2566:ARG:CG	2.71	0.51
1:A:164:GLN:O	1:A:183:VAL:N	2.44	0.51
1:A:438:ALA:HA	1:A:441:ARG:HH22	1.75	0.51
1:A:1317:LYS:CA	1:A:1385:CYS:O	2.59	0.51
1:A:2360:PHE:O	1:A:2364:ASN:CG	2.48	0.51
1:A:2571:LEU:HD22	1:A:2571:LEU:C	2.30	0.51
1:C:2391:GLU:HA	1:C:2391:GLU:OE1	2.11	0.51
1:C:2736:LEU:HD23	1:C:2736:LEU:C	2.30	0.51
1:B:116:GLN:HA	1:B:175:SER:HA	1.92	0.51
1:B:517:LYS:HA	1:B:517:LYS:HZ3	1.74	0.51
1:B:1797:CYS:O	1:B:1801:LYS:N	2.39	0.51
1:D:568:ARG:CA	1:D:571:GLN:HE22	2.23	0.51
1:A:88:LEU:CD1	1:A:88:LEU:N	2.72	0.51
1:C:104:GLU:C	1:C:106:GLU:N	2.64	0.51
1:C:116:GLN:HA	1:C:175:SER:HA	1.92	0.51
1:C:1813:MET:CA	1:C:1853:SER:CA	2.89	0.51
1:C:2351:GLN:N	1:C:2352:PRO:CD	2.72	0.51
1:C:2707:LYS:CG	1:D:2706:MET:HB3	2.40	0.51
1:B:164:GLN:O	1:B:183:VAL:N	2.44	0.51
1:B:269:ARG:HB3	2:B:2801:JYP:C2	2.28	0.51
1:B:514:ASN:C	1:B:517:LYS:H	2.14	0.51
1:B:2391:GLU:OE1	1:B:2391:GLU:HA	2.11	0.51
1:D:85:ASP:HA	1:D:89:LEU:HD12	1.91	0.51
1:D:452:VAL:O	1:D:453:LEU:C	2.49	0.51
1:D:2566:ARG:NH1	1:D:2566:ARG:CB	2.73	0.51
1:D:2716:LEU:HD23	1:D:2716:LEU:N	2.04	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:ASN:HB2	1:A:513:GLN:OE1	2.09	0.51
1:A:507:GLN:CG	1:A:567:TYR:CE1	2.76	0.51
1:A:569:LYS:HB2	2:A:2801:JYP:O14	2.10	0.51
1:A:2350:LEU:N	1:A:2350:LEU:CD2	2.73	0.51
1:A:2436:ARG:NH2	1:A:2595:ASP:OD2	2.43	0.51
1:A:2586:PHE:CB	1:D:2583:ASN:HD22	2.24	0.51
1:A:2707:LYS:CD	1:B:2706:MET:HB3	2.41	0.51
1:C:1797:CYS:O	1:C:1801:LYS:N	2.39	0.51
1:C:2348:VAL:CB	1:C:2353:THR:HG22	2.31	0.51
1:B:239:VAL:HG12	1:B:283:GLU:HB2	1.91	0.51
1:B:2026:ASN:O	1:B:2029:ASN:N	2.41	0.51
1:B:2350:LEU:CD2	1:B:2350:LEU:N	2.73	0.51
1:D:275:ALA:CA	2:D:2801:JYP:N4	2.74	0.51
1:D:2695:LEU:N	1:D:2695:LEU:CD1	2.74	0.51
1:A:438:ALA:HA	1:A:441:ARG:HH12	1.76	0.51
1:A:1291:VAL:O	1:A:1295:PHE:N	2.32	0.51
1:A:2433:SER:C	1:A:2434:VAL:HG23	2.31	0.51
1:C:582:GLN:NE2	1:C:582:GLN:CA	2.72	0.51
1:C:2360:PHE:O	1:C:2364:ASN:CG	2.48	0.51
1:C:2433:SER:CA	1:C:2592:THR:HG21	2.41	0.51
1:B:2362:VAL:HG13	1:B:2363:CYS:N	2.26	0.51
1:B:2433:SER:CA	1:B:2592:THR:HG21	2.41	0.51
1:B:2581:VAL:HG23	1:B:2581:VAL:O	2.11	0.51
1:A:2412:PHE:C	1:A:2414:SER:H	2.14	0.51
1:A:2566:ARG:NH1	1:A:2566:ARG:CB	2.73	0.51
1:C:74:LYS:HA	1:C:74:LYS:HZ3	1.70	0.51
1:C:441:ARG:NH1	1:C:441:ARG:CG	2.73	0.51
1:C:2412:PHE:O	1:C:2414:SER:CA	2.56	0.51
1:B:62:PRO:HB2	1:B:107:ASN:OD1	2.10	0.51
1:D:199:GLN:NE2	1:D:200:LEU:O	2.44	0.51
1:D:2046:GLY:O	1:D:2047:PRO:C	2.46	0.51
1:D:2219:LEU:HD12	1:D:2250:LEU:HD11	1.93	0.51
1:D:2412:PHE:C	1:D:2414:SER:H	2.14	0.51
1:D:2559:GLU:O	1:D:2563:PHE:CD1	2.64	0.51
2:D:2801:JYP:O16	2:D:2801:JYP:C11	2.58	0.51
1:A:2404:MET:HG3	1:A:2412:PHE:CE1	2.47	0.50
2:A:2801:JYP:O16	2:A:2801:JYP:C11	2.59	0.50
1:C:509:LEU:HA	1:C:512:GLU:CB	2.39	0.50
1:C:514:ASN:CB	1:C:517:LYS:H	2.21	0.50
1:C:2453:TYR:O	1:C:2456:SER:OG	2.26	0.50
1:B:1296:VAL:O	1:B:1301:THR:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2384:ARG:HB3	1:B:2387:VAL:CG1	2.41	0.50
1:B:2571:LEU:O	1:B:2574:PHE:N	2.45	0.50
1:D:85:ASP:H	1:D:89:LEU:HD12	1.76	0.50
1:D:2239:LYS:HE2	1:D:2240:ILE:CG1	2.41	0.50
1:D:2372:PHE:CD1	1:D:2372:PHE:C	2.85	0.50
1:A:270:GLN:C	1:A:272:ALA:H	2.10	0.50
1:A:275:ALA:CA	2:A:2801:JYP:N4	2.74	0.50
1:A:2239:LYS:HE2	1:A:2240:ILE:CG1	2.41	0.50
1:A:2423:ARG:NH2	1:A:2425:GLU:HG3	2.26	0.50
1:A:2559:GLU:O	1:A:2563:PHE:CD1	2.64	0.50
1:C:199:GLN:NE2	1:C:200:LEU:O	2.44	0.50
1:C:2559:GLU:O	1:C:2563:PHE:CD1	2.64	0.50
1:B:1813:MET:CA	1:B:1853:SER:CA	2.89	0.50
1:B:2219:LEU:HD12	1:B:2250:LEU:HD11	1.93	0.50
1:B:2239:LYS:HE2	1:B:2240:ILE:CG1	2.41	0.50
1:B:2287:MET:O	1:B:2290:LEU:HB2	2.08	0.50
1:B:2370:MET:CE	1:B:2370:MET:CA	2.85	0.50
1:B:2423:ARG:NH2	1:B:2425:GLU:HG3	2.26	0.50
1:B:2715:GLN:OE1	1:B:2718:GLU:CD	2.42	0.50
1:D:2219:LEU:CD2	1:D:2254:MET:CE	2.77	0.50
1:D:2389:ASP:HA	1:D:2392:PHE:CZ	2.47	0.50
1:A:85:ASP:H	1:A:89:LEU:HD12	1.76	0.50
1:A:508:LYS:HG3	1:A:570:ASN:HD21	1.77	0.50
1:A:2219:LEU:HD12	1:A:2250:LEU:HD11	1.93	0.50
1:A:2427:LEU:HD21	1:D:2447:LEU:HD12	1.93	0.50
1:C:2385:ALA:HA	1:C:2388:LEU:HD21	1.94	0.50
1:C:2581:VAL:HG23	1:C:2581:VAL:O	2.11	0.50
1:C:2583:ASN:HB3	1:D:2586:PHE:HE1	1.62	0.50
1:C:2696:ARG:NH2	1:D:2696:ARG:HH22	2.09	0.50
1:B:85:ASP:H	1:B:89:LEU:HD12	1.76	0.50
1:B:2433:SER:C	1:B:2434:VAL:HG23	2.31	0.50
1:B:2624:LYS:HE3	1:B:2625:THR:HB	1.94	0.50
1:B:2695:LEU:N	1:B:2695:LEU:CD1	2.74	0.50
1:D:438:ALA:HA	1:D:441:ARG:HH22	1.75	0.50
1:D:447:ASN:CB	1:D:513:GLN:OE1	2.60	0.50
1:D:1317:LYS:CA	1:D:1385:CYS:O	2.58	0.50
1:D:1808:VAL:O	1:D:1812:ILE:N	2.40	0.50
1:D:2581:VAL:O	1:D:2581:VAL:HG23	2.11	0.50
1:A:450:SER:N	1:A:453:LEU:HG	2.24	0.50
1:A:2372:PHE:CD1	1:A:2372:PHE:C	2.85	0.50
1:A:2696:ARG:NH1	1:D:2696:ARG:HH21	2.02	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:199:GLN:NE2	1:C:203:ASN:O	2.43	0.50
1:C:2289:LEU:N	1:C:2289:LEU:CD1	2.72	0.50
1:C:2345:ILE:CG2	1:C:2348:VAL:CG1	2.88	0.50
1:C:2365:LYS:HZ3	1:C:2395:HIS:HA	1.75	0.50
1:C:2423:ARG:NH2	1:C:2425:GLU:HG3	2.26	0.50
1:B:886:ARG:O	1:B:889:LYS:C	2.44	0.50
1:B:2559:GLU:O	1:B:2563:PHE:CD1	2.64	0.50
1:D:104:GLU:C	1:D:106:GLU:N	2.64	0.50
1:D:2410:GLU:HB2	1:D:2411:PHE:CG	2.47	0.50
1:D:2624:LYS:HE3	1:D:2625:THR:HB	1.94	0.50
1:A:457:ALA:N	1:A:521:LYS:HE3	2.27	0.50
1:A:2190:ALA:C	1:A:2192:HIS:H	2.15	0.50
1:A:2362:VAL:HG13	1:A:2363:CYS:N	2.26	0.50
1:A:2393:LEU:C	1:A:2393:LEU:HD12	2.32	0.50
1:A:2410:GLU:HB2	1:A:2411:PHE:CG	2.47	0.50
1:A:2710:THR:CG2	1:A:2711:ASN:N	2.74	0.50
1:C:62:PRO:HB2	1:C:107:ASN:OD1	2.10	0.50
1:C:447:ASN:CB	1:C:513:GLN:OE1	2.60	0.50
1:C:450:SER:N	1:C:453:LEU:HG	2.24	0.50
1:C:2433:SER:C	1:C:2434:VAL:HG23	2.31	0.50
1:C:2571:LEU:O	1:C:2574:PHE:N	2.45	0.50
1:C:2695:LEU:N	1:C:2695:LEU:CD1	2.74	0.50
1:B:38:VAL:HB	1:B:206:CYS:HB3	1.92	0.50
1:B:380:SER:O	1:B:380:SER:OG	2.24	0.50
1:B:438:ALA:HA	1:B:441:ARG:HH12	1.76	0.50
1:B:2559:GLU:OE2	1:B:2562:LEU:CG	2.47	0.50
1:B:2575:PHE:C	1:B:2575:PHE:CD1	2.83	0.50
1:D:72:PHE:CE1	1:D:93:HIS:CB	2.86	0.50
1:D:438:ALA:HA	1:D:441:ARG:HH12	1.76	0.50
1:D:2404:MET:HG3	1:D:2412:PHE:CE1	2.47	0.50
1:D:2433:SER:C	1:D:2434:VAL:HG23	2.31	0.50
1:A:1296:VAL:O	1:A:1301:THR:N	2.44	0.50
1:A:2624:LYS:HE3	1:A:2625:THR:HB	1.94	0.50
1:C:517:LYS:NZ	1:C:517:LYS:CA	2.73	0.50
1:C:2624:LYS:HE3	1:C:2625:THR:HB	1.94	0.50
1:B:270:GLN:C	1:B:272:ALA:H	2.10	0.50
1:B:2190:ALA:C	1:B:2192:HIS:H	2.15	0.50
1:D:2412:PHE:CD1	1:D:2415:LEU:CD1	2.95	0.50
1:D:2423:ARG:NH2	1:D:2425:GLU:HG3	2.26	0.50
1:A:74:LYS:CE	1:A:74:LYS:CA	2.85	0.50
1:A:2215:ILE:O	1:A:2254:MET:HE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2345:ILE:CG2	1:A:2348:VAL:CG1	2.88	0.50
1:A:2571:LEU:O	1:A:2574:PHE:N	2.45	0.50
1:C:275:ALA:CA	2:C:2801:JYP:N4	2.74	0.50
1:C:2186:LEU:HD23	1:C:2189:TYR:CE2	2.47	0.50
1:C:2393:LEU:C	1:C:2393:LEU:HD12	2.32	0.50
1:C:2710:THR:CG2	1:C:2711:ASN:N	2.74	0.50
1:B:2372:PHE:C	1:B:2372:PHE:CD1	2.85	0.50
1:B:2389:ASP:HA	1:B:2392:PHE:CZ	2.46	0.50
1:B:2393:LEU:C	1:B:2393:LEU:HD12	2.32	0.50
1:B:2404:MET:HG3	1:B:2412:PHE:CE1	2.47	0.50
1:B:2410:GLU:HB2	1:B:2411:PHE:CG	2.47	0.50
1:D:164:GLN:O	1:D:183:VAL:N	2.44	0.50
1:D:457:ALA:N	1:D:521:LYS:HE3	2.27	0.50
1:D:1296:VAL:O	1:D:1301:THR:N	2.44	0.50
1:D:1798:HIS:O	1:D:1802:GLU:N	2.40	0.50
1:D:2393:LEU:C	1:D:2393:LEU:HD12	2.32	0.50
1:A:104:GLU:C	1:A:106:GLU:N	2.64	0.50
1:A:441:ARG:CZ	1:A:441:ARG:CB	2.85	0.50
1:A:2558:LYS:CE	1:B:2528:CYS:HA	2.42	0.50
1:C:85:ASP:H	1:C:89:LEU:HD12	1.76	0.50
1:C:253:CYS:HA	1:C:262:VAL:HA	1.94	0.50
1:C:438:ALA:HA	1:C:441:ARG:HH12	1.76	0.50
1:C:457:ALA:N	1:C:521:LYS:HE3	2.27	0.50
1:C:1296:VAL:O	1:C:1301:THR:N	2.44	0.50
1:C:2026:ASN:O	1:C:2029:ASN:N	2.41	0.50
1:C:2239:LYS:HE2	1:C:2240:ILE:CG1	2.41	0.50
1:C:2271:ARG:HH12	1:C:2272:ASN:CG	1.88	0.50
1:C:2362:VAL:HG13	1:C:2363:CYS:N	2.26	0.50
1:B:447:ASN:CB	1:B:513:GLN:OE1	2.60	0.50
1:B:450:SER:HA	1:B:453:LEU:HG	1.94	0.50
1:B:508:LYS:HG3	1:B:570:ASN:HD21	1.77	0.50
1:B:2107:GLU:O	1:B:2111:ARG:N	2.45	0.50
1:B:2412:PHE:CD1	1:B:2415:LEU:CD1	2.95	0.50
1:B:2425:GLU:O	1:B:2429:ASN:N	2.43	0.50
1:B:2710:THR:CG2	1:B:2711:ASN:N	2.74	0.50
1:D:83:THR:O	1:D:85:ASP:CB	2.60	0.50
1:D:253:CYS:HA	1:D:262:VAL:HA	1.94	0.50
1:D:2385:ALA:HA	1:D:2388:LEU:HD21	1.94	0.50
1:A:447:ASN:CB	1:A:513:GLN:OE1	2.60	0.50
1:A:2186:LEU:HD23	1:A:2189:TYR:CE2	2.47	0.50
1:C:527:PHE:CD1	1:C:527:PHE:C	2.86	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1995:THR:C	1:C:1998:ASN:O	2.50	0.50
1:C:2372:PHE:CD1	1:C:2372:PHE:C	2.85	0.50
1:C:2384:ARG:HB3	1:C:2387:VAL:CG1	2.41	0.50
1:C:2573:PHE:CD1	1:C:2577:VAL:CG2	2.93	0.50
1:B:486:GLY:HA3	1:B:510:MET:CE	2.42	0.50
1:B:1995:THR:C	1:B:1998:ASN:O	2.50	0.50
1:B:2385:ALA:HA	1:B:2388:LEU:HD21	1.94	0.50
1:D:2186:LEU:HD23	1:D:2189:TYR:CE2	2.47	0.50
1:D:2433:SER:CA	1:D:2592:THR:HG21	2.41	0.50
1:A:450:SER:HA	1:A:453:LEU:HG	1.94	0.49
1:A:514:ASN:C	1:A:517:LYS:H	2.14	0.49
1:A:1798:HIS:O	1:A:1802:GLU:N	2.40	0.49
1:C:1317:LYS:CA	1:C:1385:CYS:O	2.58	0.49
1:C:2345:ILE:HD11	1:C:2356:LEU:CD1	2.42	0.49
1:C:2412:PHE:C	1:C:2414:SER:H	2.14	0.49
1:B:74:LYS:HA	1:B:74:LYS:HZ3	1.74	0.49
1:B:253:CYS:HA	1:B:262:VAL:HA	1.94	0.49
1:D:1995:THR:C	1:D:1998:ASN:O	2.50	0.49
1:D:2710:THR:CG2	1:D:2711:ASN:N	2.74	0.49
1:A:250:PHE:O	1:A:264:LEU:CB	2.61	0.49
1:A:503:ASN:HD21	1:A:505:GLU:HB2	1.77	0.49
1:A:2384:ARG:HB3	1:A:2387:VAL:CG1	2.41	0.49
1:A:2707:LYS:HG2	1:B:2706:MET:CB	2.38	0.49
1:C:81:ASN:N	1:C:81:ASN:ND2	2.60	0.49
1:C:508:LYS:HG3	1:C:570:ASN:HD21	1.77	0.49
1:B:64:ASN:ND2	1:B:103:ASN:HB3	2.28	0.49
1:B:2345:ILE:HD11	1:B:2356:LEU:HD11	1.94	0.49
1:D:64:ASN:ND2	1:D:103:ASN:HB3	2.27	0.49
1:D:517:LYS:NZ	1:D:517:LYS:CA	2.73	0.49
1:D:2264:PRO:HA	1:D:2267:TYR:CD2	2.48	0.49
1:D:2345:ILE:HD11	1:D:2356:LEU:CD1	2.42	0.49
1:A:300:ASN:ND2	1:D:2730:LYS:HG2	2.27	0.49
1:A:509:LEU:HA	1:A:512:GLU:CB	2.39	0.49
1:A:510:MET:C	1:A:515:ILE:HG21	2.28	0.49
1:A:1209:GLY:CA	1:A:1259:ILE:CA	2.91	0.49
1:A:2345:ILE:HD11	1:A:2356:LEU:HD11	1.94	0.49
1:A:2433:SER:CA	1:A:2592:THR:HG21	2.41	0.49
1:A:2581:VAL:O	1:A:2581:VAL:HG23	2.11	0.49
1:C:1808:VAL:O	1:C:1812:ILE:N	2.40	0.49
1:C:2389:ASP:HA	1:C:2392:PHE:CZ	2.47	0.49
1:C:2393:LEU:HD11	1:C:2394:TYR:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:571:GLN:HB3	1:B:574:ILE:CD1	2.38	0.49
1:B:2626:VAL:HG12	1:B:2627:THR:H	0.34	0.49
1:D:444:ASP:HA	1:D:447:ASN:ND2	2.28	0.49
1:D:2345:ILE:HD11	1:D:2356:LEU:HD11	1.94	0.49
1:D:2362:VAL:HG13	1:D:2363:CYS:N	2.26	0.49
1:D:2384:ARG:HB3	1:D:2387:VAL:CG1	2.41	0.49
1:A:64:ASN:ND2	1:A:103:ASN:HB3	2.28	0.49
1:A:253:CYS:HA	1:A:262:VAL:HA	1.94	0.49
1:A:443:LEU:HD23	1:A:513:GLN:NE2	2.28	0.49
1:A:486:GLY:HA3	1:A:510:MET:CE	2.42	0.49
1:A:2626:VAL:HG12	1:A:2627:THR:H	0.34	0.49
1:A:2651:LYS:HE2	1:A:2653:SER:H	1.77	0.49
1:C:64:ASN:ND2	1:C:103:ASN:HB3	2.28	0.49
1:C:524:GLN:HA	1:C:527:PHE:CD2	2.45	0.49
1:C:2219:LEU:HD12	1:C:2250:LEU:HD11	1.93	0.49
1:C:2348:VAL:HG23	1:C:2350:LEU:HD22	1.95	0.49
1:C:2410:GLU:HB2	1:C:2411:PHE:CG	2.47	0.49
1:B:503:ASN:HD21	1:B:505:GLU:HB2	1.77	0.49
1:B:1619:VAL:O	1:B:1621:ALA:C	2.50	0.49
1:B:2351:GLN:N	1:B:2352:PRO:CD	2.72	0.49
1:B:2393:LEU:HD11	1:B:2394:TYR:CZ	2.48	0.49
1:D:57:LEU:HD12	1:D:127:LYS:HB2	1.95	0.49
1:D:503:ASN:HD21	1:D:505:GLU:HB2	1.77	0.49
1:D:527:PHE:CD1	1:D:527:PHE:C	2.85	0.49
1:D:549:PHE:CD1	1:D:549:PHE:C	2.86	0.49
1:D:1961:ALA:C	1:D:1963:ILE:N	2.59	0.49
1:D:2348:VAL:HG23	1:D:2350:LEU:HD22	1.95	0.49
1:D:2384:ARG:O	1:D:2388:LEU:HD23	2.06	0.49
1:A:444:ASP:HA	1:A:447:ASN:ND2	2.28	0.49
1:A:452:VAL:O	1:A:453:LEU:C	2.49	0.49
1:A:1302:HIS:C	1:D:144:LYS:CB	2.81	0.49
1:A:2396:LEU:HD22	1:A:2400:LEU:HG	1.95	0.49
1:A:2412:PHE:CD1	1:A:2415:LEU:CD1	2.95	0.49
1:A:2448:ALA:O	1:A:2452:VAL:N	2.39	0.49
1:C:57:LEU:HD12	1:C:127:LYS:HB2	1.95	0.49
1:C:2046:GLY:O	1:C:2047:PRO:C	2.46	0.49
1:C:2404:MET:HG3	1:C:2412:PHE:CE1	2.47	0.49
1:C:2651:LYS:HE2	1:C:2653:SER:H	1.77	0.49
1:C:2677:ARG:CD	1:D:2623:ASN:OD1	2.40	0.49
1:B:457:ALA:N	1:B:521:LYS:HE3	2.27	0.49
1:B:563:SER:HB3	1:B:567:TYR:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2348:VAL:HG23	1:B:2350:LEU:HD22	1.95	0.49
1:D:1209:GLY:CA	1:D:1259:ILE:CA	2.91	0.49
1:D:2251:PHE:CD1	1:D:2251:PHE:C	2.86	0.49
1:D:2393:LEU:HD11	1:D:2394:TYR:CZ	2.47	0.49
1:D:2571:LEU:O	1:D:2574:PHE:N	2.45	0.49
1:A:81:ASN:N	1:A:81:ASN:ND2	2.60	0.49
1:A:244:HIS:NE2	1:A:427:LYS:O	2.41	0.49
1:A:750:LEU:O	1:A:754:GLU:N	2.37	0.49
1:A:2571:LEU:O	1:A:2574:PHE:CB	2.56	0.49
1:C:39:VAL:N	1:C:207:ASN:O	2.45	0.49
1:C:549:PHE:CD1	1:C:549:PHE:C	2.86	0.49
1:C:563:SER:HB3	1:C:567:TYR:HE2	1.77	0.49
1:C:2412:PHE:CD1	1:C:2415:LEU:CD1	2.95	0.49
1:C:2586:PHE:CA	1:B:2583:ASN:HD22	2.26	0.49
1:C:2716:LEU:HD23	1:C:2716:LEU:N	2.04	0.49
1:C:2728:LYS:HA	1:C:2731:GLN:OE1	2.13	0.49
1:B:81:ASN:N	1:B:81:ASN:ND2	2.60	0.49
1:B:452:VAL:O	1:B:455:SER:N	2.46	0.49
1:B:2365:LYS:HZ1	1:B:2395:HIS:CB	2.26	0.49
1:B:2651:LYS:HE2	1:B:2653:SER:H	1.77	0.49
1:D:508:LYS:HG3	1:D:570:ASN:HD21	1.77	0.49
1:D:567:TYR:O	1:D:571:GLN:NE2	2.46	0.49
1:D:2622:ASP:CG	1:D:2628:PHE:CE1	2.61	0.49
1:A:567:TYR:O	1:A:571:GLN:NE2	2.46	0.49
1:A:2287:MET:O	1:A:2290:LEU:HB2	2.08	0.49
1:A:2345:ILE:HD11	1:A:2356:LEU:CD1	2.42	0.49
1:A:2385:ALA:HA	1:A:2388:LEU:HD21	1.94	0.49
1:A:2393:LEU:HD11	1:A:2394:TYR:CZ	2.47	0.49
1:A:2556:PRO:O	1:A:2563:PHE:HE1	1.96	0.49
1:C:444:ASP:HA	1:C:447:ASN:ND2	2.28	0.49
1:C:450:SER:HA	1:C:453:LEU:HG	1.94	0.49
1:C:638:CYS:O	1:C:643:LYS:N	2.46	0.49
1:C:963:GLU:O	1:C:967:VAL:N	2.37	0.49
1:C:1295:PHE:O	1:C:1299:ILE:N	2.44	0.49
1:C:2215:ILE:O	1:C:2254:MET:HE1	2.12	0.49
1:B:83:THR:O	1:B:85:ASP:CB	2.60	0.49
1:D:1198:ARG:O	1:D:1202:GLN:N	2.46	0.49
1:D:1295:PHE:O	1:D:1299:ILE:N	2.44	0.49
1:D:1837:THR:O	1:D:1841:HIS:N	2.37	0.49
1:A:203:ASN:HB3	1:A:206:CYS:HB2	1.95	0.49
1:A:1198:ARG:O	1:A:1202:GLN:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2389:ASP:HA	1:A:2392:PHE:CZ	2.47	0.49
1:A:2575:PHE:CD1	1:A:2575:PHE:C	2.83	0.49
1:A:2699:GLN:CG	1:D:2700:GLU:OE1	2.61	0.49
1:C:2239:LYS:CG	1:C:2240:ILE:N	2.54	0.49
1:C:2575:PHE:CD1	1:C:2575:PHE:C	2.83	0.49
1:B:275:ALA:CA	2:B:2801:JYP:N4	2.74	0.49
1:B:520:PHE:CE1	1:B:523:LEU:HD11	2.45	0.49
1:B:2278:SER:HB2	1:B:2281:PHE:HZ	1.60	0.49
1:B:2345:ILE:HD11	1:B:2356:LEU:CD1	2.42	0.49
1:D:963:GLU:O	1:D:967:VAL:N	2.37	0.49
1:D:2240:ILE:N	1:D:2240:ILE:CD1	2.71	0.49
1:A:2348:VAL:HG23	1:A:2350:LEU:HD22	1.95	0.49
1:A:2391:GLU:OE1	1:A:2391:GLU:HA	2.11	0.49
1:A:2401:ILE:HG21	1:A:2416:LEU:HD13	0.59	0.49
1:C:449:ALA:O	1:C:453:LEU:N	2.30	0.49
1:C:568:ARG:N	1:C:571:GLN:NE2	2.60	0.49
1:C:2264:PRO:HA	1:C:2267:TYR:CD2	2.48	0.49
1:B:444:ASP:HA	1:B:447:ASN:ND2	2.28	0.49
1:B:527:PHE:C	1:B:527:PHE:CD1	2.86	0.49
1:B:1209:GLY:CA	1:B:1259:ILE:CA	2.91	0.49
1:B:1619:VAL:O	1:B:1621:ALA:CA	2.58	0.49
1:B:2349:GLY:C	1:B:2351:GLN:H	2.12	0.49
1:D:199:GLN:NE2	1:D:203:ASN:O	2.44	0.49
1:D:443:LEU:HD23	1:D:513:GLN:NE2	2.28	0.49
1:D:2026:ASN:O	1:D:2029:ASN:N	2.41	0.49
1:D:2728:LYS:HA	1:D:2731:GLN:OE1	2.13	0.49
1:A:57:LEU:HD12	1:A:127:LYS:HB2	1.95	0.49
1:A:520:PHE:CE1	1:A:523:LEU:HD11	2.45	0.49
1:A:1995:THR:C	1:A:1998:ASN:O	2.50	0.49
1:A:2264:PRO:HA	1:A:2267:TYR:CD2	2.48	0.49
1:C:516:LEU:H	1:C:516:LEU:CD1	2.14	0.49
1:C:886:ARG:O	1:C:889:LYS:C	2.44	0.49
1:C:2273:MET:HB2	1:C:2371:SER:HG	1.66	0.49
1:B:510:MET:C	1:B:515:ILE:HG21	2.28	0.49
1:B:2234:ASP:N	1:B:2234:ASP:OD1	2.46	0.49
1:D:81:ASN:N	1:D:81:ASN:ND2	2.60	0.49
1:D:638:CYS:O	1:D:643:LYS:N	2.46	0.49
1:D:1619:VAL:O	1:D:1620:GLN:C	2.43	0.49
1:D:2033:ILE:O	1:D:2037:LEU:N	2.31	0.49
1:D:2401:ILE:HG21	1:D:2416:LEU:HD13	0.59	0.49
1:D:2556:PRO:O	1:D:2563:PHE:HE1	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:PHE:CD1	1:A:527:PHE:C	2.85	0.48
1:A:568:ARG:N	1:A:571:GLN:NE2	2.60	0.48
1:C:2107:GLU:O	1:C:2111:ARG:N	2.45	0.48
1:C:2213:PRO:CG	1:C:2647:LEU:CG	2.70	0.48
1:C:2345:ILE:HD11	1:C:2356:LEU:HD11	1.94	0.48
1:C:2699:GLN:CG	1:B:2700:GLU:OE1	2.60	0.48
1:B:2396:LEU:HD22	1:B:2400:LEU:HG	1.95	0.48
1:D:514:ASN:CB	1:D:517:LYS:H	2.21	0.48
1:D:563:SER:HB3	1:D:567:TYR:HE2	1.77	0.48
1:D:2651:LYS:HE2	1:D:2653:SER:H	1.77	0.48
1:A:131:TYR:HB2	1:A:152:ASP:HB3	1.95	0.48
1:C:203:ASN:HB3	1:C:206:CYS:HB2	1.95	0.48
1:C:2556:PRO:O	1:C:2563:PHE:HE1	1.96	0.48
1:B:88:LEU:CD1	1:B:88:LEU:N	2.72	0.48
1:B:443:LEU:HD23	1:B:513:GLN:NE2	2.28	0.48
1:B:638:CYS:O	1:B:643:LYS:N	2.46	0.48
1:B:2186:LEU:HD23	1:B:2189:TYR:CE2	2.47	0.48
1:B:2264:PRO:HA	1:B:2267:TYR:CD2	2.48	0.48
1:B:2271:ARG:HH12	1:B:2272:ASN:ND2	1.89	0.48
1:B:2576:MET:HE2	1:B:2580:ILE:HD12	1.95	0.48
1:D:2107:GLU:O	1:D:2111:ARG:N	2.45	0.48
1:A:452:VAL:O	1:A:455:SER:N	2.46	0.48
1:A:573:TYR:O	1:A:577:GLN:CD	2.52	0.48
1:A:2370:MET:CE	1:A:2370:MET:CA	2.85	0.48
1:A:2728:LYS:HA	1:A:2731:GLN:OE1	2.13	0.48
1:C:250:PHE:O	1:C:264:LEU:CB	2.61	0.48
1:C:1209:GLY:CA	1:C:1259:ILE:CA	2.91	0.48
1:C:1798:HIS:O	1:C:1802:GLU:N	2.40	0.48
1:B:269:ARG:CB	2:B:2801:JYP:C2	2.71	0.48
1:B:568:ARG:N	1:B:571:GLN:NE2	2.60	0.48
1:B:2453:TYR:O	1:B:2456:SER:OG	2.26	0.48
1:D:250:PHE:O	1:D:264:LEU:CB	2.61	0.48
1:D:269:ARG:HB3	2:D:2801:JYP:C2	2.28	0.48
1:D:2252:ASN:HA	1:D:2255:ASN:HD21	1.79	0.48
1:D:2626:VAL:HG12	1:D:2627:THR:H	0.34	0.48
1:A:638:CYS:O	1:A:643:LYS:N	2.46	0.48
1:A:2362:VAL:HG12	1:A:2363:CYS:SG	2.53	0.48
1:C:503:ASN:HD21	1:C:505:GLU:HB2	1.77	0.48
1:C:523:LEU:HD22	1:C:523:LEU:O	2.13	0.48
1:C:1961:ALA:C	1:C:1963:ILE:N	2.60	0.48
1:C:2396:LEU:HD22	1:C:2400:LEU:HG	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2447:LEU:CD1	1:D:2427:LEU:HD21	2.42	0.48
1:C:2626:VAL:HG12	1:C:2627:THR:H	0.34	0.48
1:C:2725:GLU:CD	1:D:2720:LYS:HD3	2.33	0.48
1:B:131:TYR:HB2	1:B:152:ASP:HB3	1.95	0.48
1:D:571:GLN:HB3	1:D:574:ILE:CD1	2.38	0.48
1:D:2680:ALA:O	1:D:2682:SER:N	2.45	0.48
1:A:646:PRO:CA	1:A:648:THR:H	2.26	0.48
1:A:2360:PHE:O	1:A:2364:ASN:N	2.38	0.48
1:C:100:LYS:HA	1:C:103:ASN:ND2	2.29	0.48
1:C:573:TYR:O	1:C:577:GLN:CD	2.52	0.48
1:C:2707:LYS:CD	1:C:2711:ASN:ND2	2.74	0.48
1:B:57:LEU:HD12	1:B:127:LYS:HB2	1.95	0.48
1:B:203:ASN:HB3	1:B:206:CYS:HB2	1.95	0.48
1:B:1198:ARG:O	1:B:1202:GLN:N	2.46	0.48
1:B:2612:PHE:CE1	1:B:2638:MET:CE	2.97	0.48
1:D:100:LYS:HA	1:D:103:ASN:ND2	2.29	0.48
1:D:162:TYR:HD2	1:D:185:ASN:HB3	1.79	0.48
1:D:578:PHE:CD1	1:D:578:PHE:C	2.87	0.48
1:D:824:ALA:O	1:D:829:ILE:CA	2.62	0.48
1:A:244:HIS:HE1	1:A:246:GLU:HB2	1.79	0.48
1:A:523:LEU:HD22	1:A:523:LEU:O	2.13	0.48
1:A:563:SER:HB3	1:A:567:TYR:HE2	1.77	0.48
1:A:824:ALA:O	1:A:829:ILE:CA	2.62	0.48
1:A:2252:ASN:HA	1:A:2255:ASN:HD21	1.79	0.48
1:C:571:GLN:HB3	1:C:574:ILE:CD1	2.38	0.48
1:B:2273:MET:CA	1:B:2276:TRP:CD1	2.71	0.48
1:D:2362:VAL:HG12	1:D:2363:CYS:SG	2.53	0.48
1:A:1961:ALA:C	1:A:1964:THR:H	2.17	0.48
1:A:2272:ASN:CG	1:A:2276:TRP:HZ2	2.17	0.48
1:A:2351:GLN:OE1	1:A:2351:GLN:HA	2.14	0.48
1:C:1198:ARG:O	1:C:1202:GLN:N	2.46	0.48
1:C:2180:VAL:C	1:C:2182:GLY:H	2.17	0.48
1:C:2251:PHE:CD1	1:C:2251:PHE:C	2.86	0.48
1:C:2590:ILE:HD12	1:C:2590:ILE:HA	1.72	0.48
1:B:100:LYS:HA	1:B:103:ASN:ND2	2.29	0.48
1:B:523:LEU:HD22	1:B:523:LEU:O	2.13	0.48
1:B:567:TYR:O	1:B:571:GLN:NE2	2.46	0.48
1:A:62:PRO:HG2	1:A:107:ASN:OD1	2.14	0.48
1:A:74:LYS:CA	1:A:74:LYS:HE2	2.44	0.48
1:A:2612:PHE:CE1	1:A:2638:MET:CE	2.97	0.48
1:C:452:VAL:O	1:C:455:SER:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:LYS:HD2	1:C:570:ASN:HD21	1.79	0.48
1:C:1837:THR:O	1:C:1841:HIS:N	2.37	0.48
1:C:2706:MET:HB3	1:B:2707:LYS:HD3	1.96	0.48
1:B:244:HIS:HE1	1:B:246:GLU:HB2	1.79	0.48
1:B:452:VAL:O	1:B:453:LEU:C	2.49	0.48
1:B:510:MET:O	1:B:515:ILE:HG22	2.08	0.48
1:B:2728:LYS:HA	1:B:2731:GLN:OE1	2.13	0.48
1:D:1961:ALA:C	1:D:1964:THR:H	2.17	0.48
1:C:2252:ASN:HA	1:C:2255:ASN:HD21	1.79	0.48
1:C:2571:LEU:O	1:C:2574:PHE:CB	2.56	0.48
1:B:578:PHE:CD1	1:B:578:PHE:C	2.86	0.48
1:B:2203:ARG:N	1:B:2679:ARG:HH11	2.12	0.48
1:B:2345:ILE:HD12	1:B:2357:LEU:CD2	2.44	0.48
1:B:2362:VAL:HG12	1:B:2363:CYS:SG	2.53	0.48
1:B:2663:VAL:HA	1:B:2666:MET:HB2	1.96	0.48
1:D:447:ASN:HB3	1:D:513:GLN:CD	2.34	0.48
1:D:452:VAL:O	1:D:455:SER:N	2.46	0.48
1:D:486:GLY:HA3	1:D:510:MET:CE	2.41	0.48
1:D:2200:ARG:CD	1:D:2662:TYR:CG	2.92	0.48
1:A:380:SER:O	1:A:380:SER:OG	2.24	0.48
1:A:2287:MET:SD	1:A:2287:MET:C	2.92	0.48
1:C:244:HIS:HE1	1:C:246:GLU:HB2	1.79	0.48
1:C:447:ASN:HB3	1:C:513:GLN:CD	2.34	0.48
1:C:555:LEU:HD23	1:C:555:LEU:HA	1.72	0.48
1:C:2216:CYS:SG	1:C:2646:VAL:CB	3.02	0.48
1:C:2351:GLN:OE1	1:C:2351:GLN:HA	2.14	0.48
1:C:2612:PHE:CE1	1:C:2638:MET:CE	2.97	0.48
1:B:646:PRO:CA	1:B:648:THR:H	2.26	0.48
1:B:1072:TYR:O	1:B:1075:LEU:N	2.47	0.48
1:B:2287:MET:SD	1:B:2287:MET:C	2.92	0.48
1:B:2556:PRO:O	1:B:2563:PHE:HE1	1.96	0.48
1:D:62:PRO:HG2	1:D:107:ASN:OD1	2.14	0.48
1:D:2190:ALA:C	1:D:2192:HIS:H	2.15	0.48
1:D:2216:CYS:SG	1:D:2646:VAL:CB	3.02	0.48
1:D:2663:VAL:HA	1:D:2666:MET:HB2	1.96	0.48
1:A:162:TYR:HD2	1:A:185:ASN:HB3	1.79	0.47
1:A:446:ALA:HA	1:A:480:LEU:HD11	1.96	0.47
1:A:508:LYS:HD2	1:A:570:ASN:ND2	2.29	0.47
1:A:2203:ARG:N	1:A:2679:ARG:HH11	2.12	0.47
1:C:443:LEU:HD23	1:C:513:GLN:NE2	2.28	0.47
1:C:510:MET:C	1:C:515:ILE:HG21	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:824:ALA:O	1:C:829:ILE:CA	2.62	0.47
1:C:1619:VAL:O	1:C:1621:ALA:CA	2.58	0.47
1:C:2201:LEU:HA	1:C:2201:LEU:HD22	1.34	0.47
1:C:2576:MET:HE1	1:C:2580:ILE:CD1	2.42	0.47
1:C:2723:MET:C	1:C:2723:MET:SD	2.93	0.47
1:B:580:PHE:CD1	1:B:580:PHE:N	2.73	0.47
1:B:1798:HIS:O	1:B:1802:GLU:N	2.40	0.47
1:D:450:SER:N	1:D:453:LEU:HG	2.24	0.47
1:D:1072:TYR:O	1:D:1075:LEU:N	2.47	0.47
1:A:1072:TYR:O	1:A:1075:LEU:N	2.47	0.47
1:A:2103:ARG:O	1:A:2105:ASP:N	2.39	0.47
1:A:2199:VAL:HG22	1:A:2206:GLU:H	1.80	0.47
1:A:2696:ARG:HH22	1:D:2696:ARG:NH2	2.12	0.47
1:C:81:ASN:N	1:C:81:ASN:HD22	2.12	0.47
1:C:83:THR:O	1:C:85:ASP:CB	2.60	0.47
1:C:578:PHE:C	1:C:578:PHE:CD1	2.86	0.47
1:C:2190:ALA:C	1:C:2192:HIS:H	2.15	0.47
1:C:2285:VAL:O	1:C:2287:MET:C	2.53	0.47
1:C:2285:VAL:CG1	1:C:2286:LEU:H	2.24	0.47
1:B:92:LEU:N	1:B:92:LEU:CD1	2.73	0.47
1:B:1317:LYS:CA	1:B:1385:CYS:CA	2.92	0.47
1:B:1792:LEU:O	1:B:1797:CYS:N	2.44	0.47
1:B:1837:THR:O	1:B:1841:HIS:N	2.37	0.47
1:B:2405:GLY:N	1:B:2408:VAL:HG23	2.29	0.47
1:B:2441:ILE:HD12	1:B:2441:ILE:HA	1.77	0.47
1:D:74:LYS:CA	1:D:74:LYS:HE2	2.44	0.47
1:D:81:ASN:N	1:D:81:ASN:HD22	2.12	0.47
1:D:131:TYR:HB2	1:D:152:ASP:HB3	1.95	0.47
1:D:203:ASN:HB3	1:D:206:CYS:HB2	1.95	0.47
1:D:646:PRO:CA	1:D:648:THR:H	2.26	0.47
1:D:2199:VAL:HG22	1:D:2206:GLU:H	1.79	0.47
1:D:2272:ASN:O	1:D:2276:TRP:HD1	1.78	0.47
1:D:2361:ASN:ND2	1:D:2401:ILE:CD1	2.50	0.47
1:D:2396:LEU:HD22	1:D:2400:LEU:HG	1.95	0.47
1:A:549:PHE:CD1	1:A:549:PHE:C	2.86	0.47
1:C:567:TYR:O	1:C:571:GLN:NE2	2.46	0.47
1:C:646:PRO:CA	1:C:648:THR:H	2.26	0.47
1:C:1961:ALA:C	1:C:1964:THR:H	2.17	0.47
1:C:2199:VAL:HG22	1:C:2206:GLU:H	1.80	0.47
1:C:2362:VAL:HG12	1:C:2363:CYS:SG	2.54	0.47
1:B:74:LYS:CA	1:B:74:LYS:HE2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:250:PHE:O	1:B:264:LEU:CB	2.61	0.47
1:B:446:ALA:HA	1:B:480:LEU:HD11	1.96	0.47
1:B:447:ASN:HB3	1:B:513:GLN:CD	2.34	0.47
1:B:514:ASN:HD21	1:B:517:LYS:HD2	1.56	0.47
1:B:517:LYS:NZ	1:B:517:LYS:CA	2.73	0.47
1:B:824:ALA:O	1:B:829:ILE:CA	2.62	0.47
1:B:1961:ALA:C	1:B:1964:THR:H	2.17	0.47
1:B:2285:VAL:CG1	1:B:2286:LEU:H	2.24	0.47
1:D:302:LEU:HG	1:D:367:ILE:HG22	1.95	0.47
1:D:441:ARG:NH1	1:D:441:ARG:CG	2.72	0.47
1:D:523:LEU:HD22	1:D:523:LEU:O	2.13	0.47
1:D:2559:GLU:OE2	1:D:2562:LEU:CG	2.47	0.47
1:D:2632:ILE:H	1:D:2632:ILE:HG13	1.39	0.47
1:A:2250:LEU:HD13	1:A:2250:LEU:C	2.28	0.47
1:A:2285:VAL:O	1:A:2287:MET:C	2.53	0.47
1:A:2301:ARG:HG3	1:A:2303:GLY:H	1.80	0.47
1:A:2639:TRP:HA	1:A:2639:TRP:HE3	1.79	0.47
1:C:71:GLN:HA	1:C:74:LYS:HB2	1.96	0.47
1:C:1317:LYS:CA	1:C:1385:CYS:CA	2.92	0.47
1:C:2203:ARG:N	1:C:2679:ARG:HH11	2.12	0.47
1:C:2287:MET:C	1:C:2287:MET:SD	2.92	0.47
1:C:2345:ILE:HD12	1:C:2357:LEU:CD2	2.44	0.47
1:B:62:PRO:HG2	1:B:107:ASN:OD1	2.14	0.47
1:B:508:LYS:HD2	1:B:570:ASN:ND2	2.29	0.47
1:B:886:ARG:O	1:B:889:LYS:N	2.48	0.47
1:B:2199:VAL:HG22	1:B:2206:GLU:H	1.80	0.47
1:B:2285:VAL:O	1:B:2287:MET:C	2.53	0.47
1:D:886:ARG:O	1:D:889:LYS:N	2.48	0.47
1:D:2288:ASN:HB3	1:D:2413:TYR:CB	2.38	0.47
1:D:2345:ILE:HD12	1:D:2357:LEU:CD2	2.44	0.47
1:D:2448:ALA:O	1:D:2452:VAL:N	2.39	0.47
1:D:2639:TRP:HA	1:D:2639:TRP:HE3	1.79	0.47
1:A:100:LYS:HA	1:A:103:ASN:ND2	2.29	0.47
1:A:453:LEU:C	1:A:521:LYS:HD2	2.35	0.47
1:A:578:PHE:C	1:A:578:PHE:CD1	2.87	0.47
1:A:886:ARG:O	1:A:889:LYS:N	2.48	0.47
1:A:2201:LEU:HA	1:A:2662:TYR:OH	2.15	0.47
1:A:2345:ILE:HD12	1:A:2357:LEU:CD2	2.44	0.47
1:A:2423:ARG:HH22	1:A:2425:GLU:HG3	1.79	0.47
1:A:2723:MET:SD	1:A:2723:MET:C	2.93	0.47
1:C:302:LEU:HG	1:C:367:ILE:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1619:VAL:O	1:C:1621:ALA:C	2.50	0.47
1:C:2384:ARG:O	1:C:2388:LEU:HD23	2.06	0.47
1:B:81:ASN:N	1:B:81:ASN:HD22	2.12	0.47
1:B:162:TYR:HD2	1:B:185:ASN:HB3	1.79	0.47
1:B:453:LEU:C	1:B:521:LYS:HD2	2.35	0.47
1:B:2213:PRO:CD	1:B:2647:LEU:CD1	2.93	0.47
1:B:2566:ARG:NH1	1:B:2566:ARG:CG	2.71	0.47
1:B:2723:MET:SD	1:B:2723:MET:C	2.93	0.47
1:D:508:LYS:HD2	1:D:570:ASN:HD21	1.79	0.47
1:D:581:MET:SD	1:D:582:GLN:N	2.88	0.47
1:D:2285:VAL:O	1:D:2287:MET:C	2.53	0.47
1:D:2287:MET:C	1:D:2287:MET:SD	2.92	0.47
1:A:81:ASN:N	1:A:81:ASN:HD22	2.12	0.47
1:A:302:LEU:HG	1:A:367:ILE:HG22	1.95	0.47
1:A:546:HIS:HB2	1:A:547:ALA:H	1.48	0.47
1:A:1837:THR:O	1:A:1841:HIS:N	2.37	0.47
1:A:2441:ILE:HD12	1:A:2444:THR:HB	1.97	0.47
1:C:62:PRO:HG2	1:C:107:ASN:OD1	2.14	0.47
1:C:90:ASN:CA	1:C:93:HIS:CE1	2.80	0.47
1:C:760:ASP:C	1:C:762:ASP:N	2.68	0.47
1:C:1072:TYR:O	1:C:1075:LEU:N	2.47	0.47
1:C:2273:MET:CA	1:C:2276:TRP:CD1	2.71	0.47
1:C:2423:ARG:HH22	1:C:2425:GLU:HG3	1.79	0.47
1:B:39:VAL:HB	1:B:207:ASN:HB2	1.96	0.47
1:B:508:LYS:HD2	1:B:570:ASN:HD21	1.79	0.47
1:B:2240:ILE:N	1:B:2240:ILE:CD1	2.71	0.47
1:B:2283:LEU:HD21	1:B:2360:PHE:CE1	2.50	0.47
1:B:2351:GLN:OE1	1:B:2351:GLN:HA	2.14	0.47
1:B:2441:ILE:HD12	1:B:2444:THR:HB	1.97	0.47
1:D:508:LYS:HD2	1:D:570:ASN:ND2	2.30	0.47
1:D:1317:LYS:CA	1:D:1385:CYS:CA	2.92	0.47
1:D:2180:VAL:C	1:D:2182:GLY:H	2.17	0.47
1:D:2201:LEU:HA	1:D:2662:TYR:OH	2.15	0.47
1:D:2405:GLY:N	1:D:2408:VAL:HG23	2.29	0.47
1:A:21:GLY:N	1:A:24:ASN:OD1	2.48	0.47
1:A:72:PHE:CE1	1:A:93:HIS:CB	2.86	0.47
1:A:447:ASN:HB3	1:A:513:GLN:CD	2.34	0.47
1:A:517:LYS:NZ	1:A:517:LYS:CA	2.73	0.47
1:A:580:PHE:CD1	1:A:580:PHE:N	2.73	0.47
1:A:1209:GLY:CA	1:A:1259:ILE:C	2.83	0.47
1:A:2180:VAL:C	1:A:2182:GLY:H	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2251:PHE:CD1	1:A:2251:PHE:C	2.86	0.47
1:A:2441:ILE:HD12	1:A:2441:ILE:HA	1.77	0.47
1:C:55:ASP:O	1:C:125:HIS:NE2	2.48	0.47
1:C:74:LYS:CA	1:C:74:LYS:HE2	2.44	0.47
1:C:131:TYR:HB2	1:C:152:ASP:HB3	1.95	0.47
1:C:452:VAL:O	1:C:453:LEU:C	2.49	0.47
1:C:581:MET:SD	1:C:582:GLN:N	2.88	0.47
1:C:886:ARG:O	1:C:889:LYS:N	2.48	0.47
1:C:2103:ARG:C	1:C:2105:ASP:H	2.09	0.47
1:C:2283:LEU:HD21	1:C:2360:PHE:CE1	2.50	0.47
1:C:2441:ILE:HD12	1:C:2444:THR:HB	1.97	0.47
1:C:2649:LYS:C	1:C:2650:VAL:CG2	2.54	0.47
1:C:2691:GLU:OE1	1:C:2691:GLU:HA	2.15	0.47
1:D:71:GLN:HA	1:D:74:LYS:HB2	1.96	0.47
1:D:446:ALA:HA	1:D:480:LEU:HD11	1.96	0.47
1:D:1107:GLN:O	1:D:1108:ASP:C	2.53	0.47
1:D:2234:ASP:N	1:D:2234:ASP:OD1	2.46	0.47
1:D:2301:ARG:HG3	1:D:2303:GLY:H	1.80	0.47
1:D:2400:LEU:HD23	1:D:2400:LEU:HA	1.69	0.47
1:D:2612:PHE:CE1	1:D:2638:MET:CE	2.97	0.47
1:D:2723:MET:SD	1:D:2723:MET:C	2.93	0.47
1:A:581:MET:SD	1:A:582:GLN:N	2.88	0.47
1:A:1317:LYS:CA	1:A:1385:CYS:CA	2.92	0.47
1:A:2196:ILE:N	1:A:2208:ILE:O	2.47	0.47
1:A:2243:PHE:CZ	1:A:2638:MET:CA	2.98	0.47
1:A:2405:GLY:N	1:A:2408:VAL:HG23	2.29	0.47
1:A:2680:ALA:O	1:A:2682:SER:N	2.45	0.47
1:A:2696:ARG:NH2	1:D:2696:ARG:NH2	2.63	0.47
1:C:162:TYR:HD2	1:C:185:ASN:HB3	1.79	0.47
1:C:270:GLN:HE21	1:C:271:SER:N	1.96	0.47
1:C:2591:ASP:OD1	1:D:2597:ARG:NH1	2.48	0.47
1:C:2663:VAL:HA	1:C:2666:MET:HB2	1.96	0.47
1:C:2707:LYS:HG2	1:D:2706:MET:HB3	1.96	0.47
1:C:2723:MET:SD	1:C:2727:ARG:HD2	2.55	0.47
1:C:2732:ARG:NH1	1:C:2732:ARG:CB	2.72	0.47
1:B:441:ARG:NH1	1:B:441:ARG:CG	2.72	0.47
1:B:2423:ARG:HH22	1:B:2425:GLU:HG3	1.79	0.47
1:D:55:ASP:O	1:D:125:HIS:NE2	2.48	0.47
1:D:568:ARG:N	1:D:571:GLN:NE2	2.60	0.47
1:D:760:ASP:C	1:D:762:ASP:N	2.68	0.47
1:D:2039:SER:O	1:D:2043:TYR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2351:GLN:OE1	1:D:2351:GLN:HA	2.14	0.47
1:A:317:GLU:O	1:A:353:TYR:N	2.48	0.47
1:A:449:ALA:C	1:A:453:LEU:CG	2.59	0.47
1:A:760:ASP:C	1:A:762:ASP:N	2.68	0.47
1:A:1619:VAL:O	1:A:1621:ALA:CA	2.58	0.47
1:A:2107:GLU:O	1:A:2111:ARG:N	2.45	0.47
1:A:2203:ARG:H	1:A:2679:ARG:HH11	1.63	0.47
1:A:2716:LEU:HD23	1:A:2716:LEU:N	2.04	0.47
1:C:504:ARG:HD3	2:C:2801:JYP:O7	2.15	0.47
1:C:2639:TRP:HA	1:C:2639:TRP:HE3	1.79	0.47
1:B:577:GLN:O	1:B:580:PHE:HD1	1.98	0.47
1:B:2180:VAL:C	1:B:2182:GLY:H	2.17	0.47
1:B:2243:PHE:CZ	1:B:2638:MET:CA	2.98	0.47
1:B:2251:PHE:CD1	1:B:2251:PHE:C	2.86	0.47
1:D:244:HIS:HE1	1:D:246:GLU:HB2	1.79	0.47
1:D:1619:VAL:O	1:D:1621:ALA:CA	2.58	0.47
1:A:39:VAL:HB	1:A:207:ASN:HB2	1.96	0.47
1:A:886:ARG:O	1:A:889:LYS:CA	2.63	0.47
1:A:2361:ASN:ND2	1:A:2401:ILE:CD1	2.50	0.47
1:C:72:PHE:CE1	1:C:93:HIS:CB	2.86	0.47
1:C:508:LYS:HD2	1:C:570:ASN:ND2	2.29	0.47
1:C:2397:LEU:HD23	1:C:2397:LEU:HA	1.46	0.47
1:C:2453:TYR:HE1	1:C:2536:VAL:HG23	1.80	0.47
1:B:21:GLY:N	1:B:24:ASN:OD1	2.48	0.47
1:B:99:GLU:HG2	1:B:102:GLN:NE2	2.30	0.47
1:B:581:MET:SD	1:B:582:GLN:N	2.88	0.47
1:B:2203:ARG:H	1:B:2679:ARG:HH11	1.63	0.47
1:B:2252:ASN:HA	1:B:2255:ASN:HD21	1.79	0.47
1:B:2301:ARG:HG3	1:B:2303:GLY:H	1.80	0.47
1:D:449:ALA:O	1:D:453:LEU:N	2.30	0.47
1:D:2441:ILE:HD12	1:D:2444:THR:HB	1.97	0.47
1:D:2578:ILE:HG23	1:D:2579:ILE:CD1	2.45	0.47
1:A:83:THR:O	1:A:85:ASP:CB	2.60	0.46
1:A:99:GLU:HG2	1:A:102:GLN:NE2	2.30	0.46
1:C:453:LEU:C	1:C:521:LYS:HD2	2.35	0.46
1:C:1035:GLU:O	1:C:1039:GLY:N	2.49	0.46
1:C:1209:GLY:CA	1:C:1259:ILE:C	2.83	0.46
1:C:2201:LEU:HA	1:C:2662:TYR:OH	2.15	0.46
1:B:92:LEU:H	1:B:92:LEU:HD13	1.79	0.46
1:B:2200:ARG:CD	1:B:2662:TYR:CG	2.92	0.46
1:D:2360:PHE:O	1:D:2364:ASN:N	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2423:ARG:HH22	1:D:2425:GLU:HG3	1.79	0.46
1:D:2556:PRO:HB2	1:D:2563:PHE:CD1	2.50	0.46
1:D:2639:TRP:HA	1:D:2639:TRP:CE3	2.50	0.46
1:A:8:PHE:CE2	1:A:176:VAL:HB	2.50	0.46
1:A:524:GLN:HA	1:A:527:PHE:CD2	2.45	0.46
1:A:1456:VAL:C	1:A:1507:PRO:O	2.47	0.46
1:A:2283:LEU:HD21	1:A:2360:PHE:CE1	2.50	0.46
1:A:2556:PRO:HB2	1:A:2563:PHE:CD1	2.50	0.46
1:C:92:LEU:CD2	1:C:92:LEU:H	1.96	0.46
1:C:2188:PHE:HD1	1:C:2191:LYS:HD3	1.81	0.46
1:C:2639:TRP:HA	1:C:2639:TRP:CE3	2.50	0.46
1:B:77:LYS:HZ2	1:B:77:LYS:N	2.05	0.46
1:B:317:GLU:O	1:B:353:TYR:N	2.48	0.46
1:B:462:LYS:HA	1:B:462:LYS:HD3	1.64	0.46
1:B:549:PHE:C	1:B:549:PHE:CD1	2.86	0.46
1:B:2216:CYS:SG	1:B:2646:VAL:CB	3.02	0.46
1:B:2571:LEU:O	1:B:2574:PHE:CB	2.56	0.46
1:B:2707:LYS:CD	1:B:2711:ASN:ND2	2.74	0.46
1:D:21:GLY:N	1:D:24:ASN:OD1	2.48	0.46
1:D:885:LEU:O	1:D:888:THR:CA	2.64	0.46
1:D:2203:ARG:N	1:D:2679:ARG:HH11	2.12	0.46
1:A:39:VAL:N	1:A:207:ASN:O	2.45	0.46
1:A:2200:ARG:CD	1:A:2662:TYR:CG	2.92	0.46
1:A:2276:TRP:HB3	1:A:2367:ILE:HD12	1.96	0.46
1:C:21:GLY:N	1:C:24:ASN:OD1	2.48	0.46
1:C:886:ARG:O	1:C:889:LYS:CA	2.63	0.46
1:C:2234:ASP:OD1	1:C:2234:ASP:N	2.46	0.46
1:C:2405:GLY:N	1:C:2408:VAL:HG23	2.30	0.46
1:C:2558:LYS:HA	1:C:2558:LYS:HD3	1.77	0.46
1:B:302:LEU:HG	1:B:367:ILE:HG22	1.95	0.46
1:B:504:ARG:HD3	2:B:2801:JYP:O7	2.15	0.46
1:B:2723:MET:SD	1:B:2727:ARG:HD2	2.55	0.46
1:D:8:PHE:CE2	1:D:176:VAL:HB	2.50	0.46
1:D:39:VAL:HB	1:D:207:ASN:HB2	1.96	0.46
1:D:567:TYR:HB3	1:D:570:ASN:HB3	1.96	0.46
1:D:646:PRO:CA	1:D:650:GLU:H	2.29	0.46
1:D:817:ASP:CA	1:D:878:PHE:C	2.84	0.46
1:A:55:ASP:O	1:A:125:HIS:NE2	2.48	0.46
1:A:504:ARG:HD3	2:A:2801:JYP:O7	2.15	0.46
1:A:562:HIS:ND1	1:A:562:HIS:O	2.49	0.46
1:A:751:ALA:O	1:A:755:ILE:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2578:ILE:HG23	1:A:2579:ILE:CD1	2.45	0.46
1:A:2663:VAL:HA	1:A:2666:MET:HB2	1.96	0.46
1:A:2691:GLU:OE1	1:A:2691:GLU:HA	2.15	0.46
1:A:2732:ARG:CB	1:A:2732:ARG:NH1	2.72	0.46
1:C:39:VAL:HB	1:C:207:ASN:HB2	1.96	0.46
1:C:646:PRO:CA	1:C:650:GLU:H	2.29	0.46
1:C:2696:ARG:HH22	1:D:2696:ARG:HH22	1.63	0.46
1:C:2707:LYS:CD	1:D:2706:MET:HB3	2.45	0.46
1:B:55:ASP:O	1:B:125:HIS:NE2	2.48	0.46
1:B:508:LYS:CD	1:B:570:ASN:HD21	2.29	0.46
1:B:1317:LYS:CA	1:B:1385:CYS:O	2.58	0.46
1:D:817:ASP:C	1:D:878:PHE:N	2.69	0.46
1:D:1209:GLY:CA	1:D:1259:ILE:C	2.83	0.46
1:D:1797:CYS:O	1:D:1801:LYS:N	2.39	0.46
1:D:1836:ASN:O	1:D:1840:GLN:N	2.33	0.46
1:D:2213:PRO:CD	1:D:2647:LEU:CD1	2.93	0.46
1:D:2365:LYS:HZ3	1:D:2395:HIS:HA	1.80	0.46
1:D:2578:ILE:HD12	1:D:2578:ILE:HA	1.65	0.46
1:D:2585:ILE:HD13	1:D:2585:ILE:HA	1.53	0.46
1:A:577:GLN:O	1:A:580:PHE:HD1	1.98	0.46
1:A:1085:ARG:C	1:A:1088:SER:H	2.18	0.46
1:A:1295:PHE:O	1:A:1299:ILE:N	2.44	0.46
1:A:1302:HIS:O	1:D:144:LYS:CB	2.64	0.46
1:A:2188:PHE:HD1	1:A:2191:LYS:HD3	1.81	0.46
1:A:2349:GLY:C	1:A:2351:GLN:H	2.12	0.46
1:A:2397:LEU:HD23	1:A:2397:LEU:HA	1.46	0.46
1:A:2453:TYR:HE1	1:A:2536:VAL:HG23	1.80	0.46
1:C:269:ARG:CB	2:C:2801:JYP:C2	2.72	0.46
1:C:317:GLU:O	1:C:353:TYR:N	2.48	0.46
1:C:446:ALA:HA	1:C:480:LEU:HD11	1.96	0.46
1:C:817:ASP:C	1:C:878:PHE:N	2.69	0.46
1:C:2039:SER:O	1:C:2043:TYR:N	2.46	0.46
1:C:2276:TRP:HB3	1:C:2367:ILE:HD12	1.96	0.46
1:C:2556:PRO:HB2	1:C:2563:PHE:CD1	2.50	0.46
1:B:1035:GLU:O	1:B:1039:GLY:N	2.49	0.46
1:B:2578:ILE:HG23	1:B:2579:ILE:CD1	2.45	0.46
1:B:2624:LYS:NZ	1:B:2624:LYS:CB	2.72	0.46
1:D:453:LEU:HA	1:D:521:LYS:HZ3	1.55	0.46
1:D:573:TYR:O	1:D:577:GLN:CD	2.52	0.46
1:D:2188:PHE:HD1	1:D:2191:LYS:HD3	1.81	0.46
1:D:2283:LEU:HD21	1:D:2360:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2250:LEU:HD22	1:A:2250:LEU:HA	1.41	0.46
1:C:2301:ARG:HG3	1:C:2303:GLY:H	1.80	0.46
1:C:2707:LYS:HD3	1:D:2706:MET:HB3	1.97	0.46
1:C:2719:LEU:C	1:C:2719:LEU:HD12	2.36	0.46
1:B:39:VAL:N	1:B:207:ASN:O	2.45	0.46
1:B:751:ALA:O	1:B:755:ILE:N	2.49	0.46
1:B:2639:TRP:HA	1:B:2639:TRP:CE3	2.50	0.46
1:B:2639:TRP:HA	1:B:2639:TRP:HE3	1.79	0.46
1:B:2680:ALA:O	1:B:2682:SER:N	2.45	0.46
1:B:2691:GLU:OE1	1:B:2691:GLU:HA	2.15	0.46
1:D:504:ARG:HD3	2:D:2801:JYP:O7	2.15	0.46
1:D:1035:GLU:O	1:D:1039:GLY:N	2.48	0.46
1:D:2203:ARG:H	1:D:2679:ARG:HH11	1.63	0.46
1:D:2423:ARG:C	1:D:2423:ARG:CD	2.84	0.46
1:D:2645:ILE:HA	1:D:2648:VAL:HG22	1.98	0.46
1:A:553:CYS:HA	1:A:556:CYS:SG	2.56	0.46
1:A:886:ARG:O	1:A:889:LYS:C	2.44	0.46
1:A:2352:PRO:HA	1:A:2355:PHE:CD2	2.51	0.46
1:A:2723:MET:SD	1:A:2727:ARG:HD2	2.55	0.46
1:C:8:PHE:CE2	1:C:176:VAL:HB	2.50	0.46
1:C:2698:LEU:HD23	1:C:2698:LEU:C	2.36	0.46
1:B:503:ASN:HB3	1:B:506:ARG:CB	2.46	0.46
1:B:1085:ARG:C	1:B:1088:SER:H	2.19	0.46
1:B:1806:ASN:O	1:B:1810:ASP:N	2.43	0.46
1:B:2719:LEU:HD12	1:B:2719:LEU:C	2.36	0.46
1:D:453:LEU:C	1:D:521:LYS:HD2	2.35	0.46
1:D:558:ARG:HA	1:D:561:ARG:HD3	1.98	0.46
1:D:562:HIS:ND1	1:D:562:HIS:O	2.49	0.46
1:D:2243:PHE:CZ	1:D:2638:MET:CA	2.98	0.46
1:D:2642:LEU:HD13	1:D:2642:LEU:H	1.81	0.46
1:D:2719:LEU:C	1:D:2719:LEU:HD12	2.36	0.46
1:D:2732:ARG:NH1	1:D:2732:ARG:CB	2.72	0.46
1:A:514:ASN:HD21	1:A:517:LYS:HD2	1.56	0.46
1:A:885:LEU:O	1:A:888:THR:CA	2.64	0.46
1:A:2201:LEU:HD12	1:A:2203:ARG:NH2	2.31	0.46
1:A:2406:LEU:C	1:A:2406:LEU:CD2	2.85	0.46
1:A:2642:LEU:HD13	1:A:2642:LEU:H	1.81	0.46
1:C:477:LEU:HD22	1:C:556:CYS:SG	2.56	0.46
1:C:497:VAL:CB	1:C:504:ARG:CZ	2.61	0.46
1:C:885:LEU:O	1:C:888:THR:CA	2.64	0.46
1:B:71:GLN:HA	1:B:74:LYS:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:886:ARG:O	1:B:889:LYS:CA	2.63	0.46
1:B:2556:PRO:HB2	1:B:2563:PHE:CD1	2.50	0.46
1:B:2590:ILE:HD12	1:B:2590:ILE:HA	1.72	0.46
1:D:503:ASN:HB3	1:D:506:ARG:CB	2.46	0.46
1:D:2406:LEU:C	1:D:2406:LEU:CD2	2.85	0.46
1:A:508:LYS:HD2	1:A:570:ASN:HD21	1.79	0.46
1:A:508:LYS:CD	1:A:570:ASN:HD21	2.28	0.46
1:A:2719:LEU:C	1:A:2719:LEU:HD12	2.36	0.46
1:C:2295:TYR:CD1	1:B:2532:LEU:HD22	2.51	0.46
1:B:885:LEU:O	1:B:888:THR:CA	2.64	0.46
1:D:317:GLU:O	1:D:353:TYR:N	2.48	0.46
1:D:522:LEU:HD22	1:D:522:LEU:HA	1.67	0.46
1:D:1085:ARG:C	1:D:1088:SER:H	2.19	0.46
1:D:1456:VAL:C	1:D:1507:PRO:O	2.47	0.46
1:D:2453:TYR:HE1	1:D:2536:VAL:HG23	1.80	0.46
1:D:2651:LYS:HE2	1:D:2651:LYS:HB2	1.70	0.46
1:D:2698:LEU:HD23	1:D:2698:LEU:C	2.36	0.46
1:D:2707:LYS:CD	1:D:2711:ASN:ND2	2.74	0.46
1:D:2723:MET:SD	1:D:2727:ARG:HD2	2.55	0.46
1:A:503:ASN:ND2	1:A:505:GLU:HB2	2.31	0.46
1:A:817:ASP:CA	1:A:878:PHE:C	2.84	0.46
1:A:1035:GLU:O	1:A:1039:GLY:N	2.49	0.46
1:C:503:ASN:ND2	1:C:505:GLU:HB2	2.31	0.46
1:C:508:LYS:CD	1:C:570:ASN:HD21	2.28	0.46
1:C:2203:ARG:H	1:C:2679:ARG:HH11	1.63	0.46
1:C:2583:ASN:ND2	1:D:2586:PHE:CD1	2.83	0.46
1:B:8:PHE:CE2	1:B:176:VAL:HB	2.50	0.46
1:B:1295:PHE:O	1:B:1299:ILE:N	2.44	0.46
1:B:1808:VAL:O	1:B:1812:ILE:N	2.40	0.46
1:D:886:ARG:O	1:D:889:LYS:C	2.44	0.46
1:D:2453:TYR:O	1:D:2456:SER:OG	2.26	0.46
1:A:71:GLN:HA	1:A:74:LYS:HB2	1.96	0.45
1:A:477:LEU:HD22	1:A:556:CYS:SG	2.56	0.45
1:A:523:LEU:C	1:A:523:LEU:CD2	2.85	0.45
1:A:2528:CYS:HA	1:D:2558:LYS:HE3	1.98	0.45
1:A:2586:PHE:CG	1:D:2583:ASN:ND2	2.83	0.45
1:A:2612:PHE:CG	1:A:2638:MET:SD	3.09	0.45
1:C:486:GLY:HA3	1:C:510:MET:CE	2.41	0.45
1:C:2578:ILE:HG23	1:C:2579:ILE:CD1	2.45	0.45
1:C:2706:MET:C	1:B:2707:LYS:HE2	2.36	0.45
1:C:2710:THR:HB	1:B:2707:LYS:HZ1	0.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:477:LEU:HD22	1:B:556:CYS:SG	2.56	0.45
1:B:516:LEU:H	1:B:516:LEU:CD1	2.14	0.45
1:B:553:CYS:HA	1:B:556:CYS:SG	2.56	0.45
1:B:573:TYR:O	1:B:577:GLN:CD	2.52	0.45
1:B:2612:PHE:CG	1:B:2638:MET:SD	3.09	0.45
1:B:2645:ILE:HA	1:B:2648:VAL:HG22	1.98	0.45
1:D:88:LEU:CD1	1:D:88:LEU:N	2.72	0.45
1:D:91:LYS:HA	1:D:94:HIS:HD2	1.81	0.45
1:D:477:LEU:HD22	1:D:556:CYS:SG	2.56	0.45
1:D:886:ARG:O	1:D:889:LYS:CA	2.63	0.45
1:D:2571:LEU:O	1:D:2574:PHE:CB	2.56	0.45
1:D:2620:LYS:O	1:D:2624:LYS:HG2	2.17	0.45
1:A:127:LYS:O	1:A:441:ARG:CG	2.65	0.45
1:A:646:PRO:CA	1:A:650:GLU:H	2.29	0.45
1:A:2698:LEU:HD23	1:A:2698:LEU:C	2.36	0.45
1:A:2706:MET:CA	1:D:2707:LYS:HE2	2.45	0.45
1:C:503:ASN:HB3	1:C:506:ARG:CB	2.46	0.45
1:C:2251:PHE:CD1	1:C:2251:PHE:O	2.70	0.45
1:C:2530:THR:HG23	1:C:2534:CYS:HB3	1.98	0.45
1:B:562:HIS:ND1	1:B:562:HIS:O	2.49	0.45
1:B:2251:PHE:CD1	1:B:2251:PHE:O	2.70	0.45
1:B:2352:PRO:HA	1:B:2355:PHE:CD2	2.51	0.45
1:D:127:LYS:O	1:D:441:ARG:CG	2.65	0.45
1:D:2352:PRO:HA	1:D:2355:PHE:CD2	2.51	0.45
1:A:108:ARG:NH2	1:A:111:LEU:HD12	2.32	0.45
1:A:503:ASN:HB3	1:A:506:ARG:CB	2.46	0.45
1:A:510:MET:O	1:A:515:ILE:HG22	2.08	0.45
1:A:558:ARG:HA	1:A:561:ARG:HD3	1.98	0.45
1:A:817:ASP:C	1:A:878:PHE:N	2.69	0.45
1:C:751:ALA:O	1:C:755:ILE:N	2.49	0.45
1:C:1085:ARG:C	1:C:1088:SER:H	2.19	0.45
1:C:2243:PHE:CZ	1:C:2638:MET:CA	2.98	0.45
1:B:318:VAL:HA	1:B:353:TYR:HB2	1.98	0.45
1:B:817:ASP:C	1:B:878:PHE:N	2.69	0.45
1:B:1107:GLN:O	1:B:1108:ASP:C	2.53	0.45
1:B:2196:ILE:N	1:B:2208:ILE:O	2.47	0.45
1:B:2388:LEU:CD2	1:B:2388:LEU:N	2.73	0.45
1:D:39:VAL:N	1:D:207:ASN:O	2.45	0.45
1:D:99:GLU:HG2	1:D:102:GLN:NE2	2.30	0.45
1:D:503:ASN:ND2	1:D:505:GLU:HB2	2.31	0.45
1:D:508:LYS:CD	1:D:570:ASN:HD21	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:751:ALA:O	1:D:755:ILE:N	2.49	0.45
1:D:2345:ILE:CD1	1:D:2356:LEU:CG	2.80	0.45
1:D:2365:LYS:HE2	1:D:2398:TYR:CB	2.37	0.45
1:D:2375:ASN:ND2	1:D:2375:ASN:N	2.65	0.45
1:D:2612:PHE:CG	1:D:2638:MET:SD	3.09	0.45
1:D:2723:MET:SD	1:D:2727:ARG:NH1	2.85	0.45
1:A:441:ARG:NH1	1:A:441:ARG:CG	2.72	0.45
1:C:91:LYS:HA	1:C:94:HIS:HD2	1.81	0.45
1:C:553:CYS:HA	1:C:556:CYS:SG	2.56	0.45
1:C:562:HIS:ND1	1:C:562:HIS:O	2.49	0.45
1:C:638:CYS:C	1:C:639:VAL:O	2.55	0.45
1:C:2401:ILE:HG21	1:C:2416:LEU:HD13	0.59	0.45
1:C:2730:LYS:C	1:C:2730:LYS:CD	2.85	0.45
1:B:524:GLN:HA	1:B:527:PHE:CD2	2.45	0.45
1:B:2039:SER:O	1:B:2043:TYR:N	2.46	0.45
1:B:2188:PHE:HD1	1:B:2191:LYS:HD3	1.81	0.45
1:B:2250:LEU:HD13	1:B:2250:LEU:C	2.28	0.45
1:B:2406:LEU:C	1:B:2406:LEU:CD2	2.85	0.45
1:B:2453:TYR:HE1	1:B:2536:VAL:HG23	1.80	0.45
1:B:2698:LEU:HD23	1:B:2698:LEU:C	2.36	0.45
1:D:256:HIS:HB3	1:D:261:HIS:HD2	1.81	0.45
1:D:273:THR:OG1	1:D:274:SER:N	2.49	0.45
1:D:449:ALA:C	1:D:453:LEU:CG	2.59	0.45
1:D:1619:VAL:O	1:D:1621:ALA:C	2.50	0.45
1:D:2196:ILE:N	1:D:2208:ILE:O	2.47	0.45
1:D:2210:PHE:HE2	1:D:2647:LEU:CG	2.29	0.45
1:D:2349:GLY:C	1:D:2351:GLN:H	2.12	0.45
1:D:2730:LYS:C	1:D:2730:LYS:CD	2.85	0.45
1:A:72:PHE:CE1	1:A:93:HIS:CD2	3.05	0.45
1:A:2423:ARG:C	1:A:2423:ARG:CD	2.84	0.45
1:A:2453:TYR:O	1:A:2456:SER:OG	2.26	0.45
1:A:2706:MET:HB3	1:D:2707:LYS:CG	2.46	0.45
1:C:273:THR:OG1	1:C:274:SER:N	2.49	0.45
1:C:2203:ARG:HE	1:C:2203:ARG:HB2	1.71	0.45
1:C:2406:LEU:CD2	1:C:2406:LEU:C	2.85	0.45
1:B:108:ARG:NH2	1:B:111:LEU:HD12	2.32	0.45
1:D:577:GLN:O	1:D:580:PHE:HD1	1.98	0.45
1:D:638:CYS:O	1:D:642:ASN:N	2.50	0.45
1:A:2620:LYS:O	1:A:2624:LYS:HG2	2.17	0.45
1:A:2639:TRP:HA	1:A:2639:TRP:CE3	2.50	0.45
1:C:72:PHE:CE1	1:C:93:HIS:CD2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2370:MET:HE3	1:C:2370:MET:CA	2.39	0.45
1:C:2441:ILE:HD12	1:C:2441:ILE:HA	1.77	0.45
1:B:72:PHE:CE1	1:B:93:HIS:CD2	3.05	0.45
1:B:2210:PHE:HE2	1:B:2647:LEU:CG	2.29	0.45
1:B:2276:TRP:HB3	1:B:2367:ILE:HD12	1.96	0.45
1:B:2279:ILE:HD13	1:B:2279:ILE:HA	1.71	0.45
1:D:97:ASP:HA	1:D:100:LYS:HG2	1.99	0.45
1:D:2251:PHE:CD1	1:D:2251:PHE:O	2.70	0.45
1:D:2588:VAL:O	1:D:2592:THR:OG1	2.29	0.45
1:D:2691:GLU:OE1	1:D:2691:GLU:HA	2.15	0.45
1:A:2245:LEU:H	1:A:2245:LEU:HG	1.57	0.45
1:A:2251:PHE:CD1	1:A:2251:PHE:O	2.70	0.45
1:A:2398:TYR:O	1:A:2398:TYR:CD1	2.70	0.45
1:C:514:ASN:C	1:C:516:LEU:H	2.05	0.45
1:C:1107:GLN:O	1:C:1108:ASP:C	2.53	0.45
1:C:2696:ARG:NH1	1:B:2696:ARG:HE	2.09	0.45
1:C:2706:MET:HB3	1:B:2707:LYS:CD	2.45	0.45
1:B:11:ILE:HD12	1:B:62:PRO:HG3	1.99	0.45
1:B:97:ASP:HA	1:B:100:LYS:HG2	1.98	0.45
1:B:2448:ALA:O	1:B:2452:VAL:N	2.39	0.45
1:D:553:CYS:HA	1:D:556:CYS:SG	2.56	0.45
1:A:554:ARG:CD	1:A:554:ARG:C	2.85	0.45
1:A:646:PRO:C	1:A:648:THR:H	1.72	0.45
1:A:1792:LEU:O	1:A:1797:CYS:N	2.44	0.45
1:A:2210:PHE:HE2	1:A:2647:LEU:CG	2.29	0.45
1:A:2401:ILE:CD1	1:A:2401:ILE:C	2.85	0.45
1:A:2558:LYS:HA	1:A:2558:LYS:HD3	1.77	0.45
1:A:2621:PHE:HA	1:A:2624:LYS:CG	2.47	0.45
1:A:2639:TRP:CE3	1:A:2639:TRP:O	2.70	0.45
1:A:2653:SER:OG	1:A:2664:ALA:HB2	2.16	0.45
1:A:2723:MET:SD	1:A:2727:ARG:NH1	2.85	0.45
1:C:2612:PHE:CG	1:C:2638:MET:SD	3.09	0.45
1:C:2620:LYS:O	1:C:2624:LYS:HG2	2.17	0.45
1:C:2677:ARG:HH21	1:D:2623:ASN:CB	2.29	0.45
1:B:1209:GLY:CA	1:B:1259:ILE:C	2.83	0.45
1:B:2530:THR:HG23	1:B:2534:CYS:HB3	1.98	0.45
1:D:554:ARG:CD	1:D:554:ARG:C	2.85	0.45
1:D:638:CYS:C	1:D:639:VAL:O	2.55	0.45
1:D:2285:VAL:O	1:D:2287:MET:CA	2.64	0.45
1:D:2354:LEU:C	1:D:2354:LEU:CD1	2.85	0.45
1:D:2530:THR:HG23	1:D:2534:CYS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:CYS:O	1:A:642:ASN:N	2.50	0.45
1:A:2365:LYS:HE3	1:A:2395:HIS:O	2.16	0.45
1:A:2729:GLN:O	1:A:2732:ARG:N	2.50	0.45
1:C:99:GLU:HG2	1:C:102:GLN:NE2	2.30	0.45
1:C:108:ARG:NH2	1:C:111:LEU:HD12	2.32	0.45
1:C:318:VAL:HA	1:C:353:TYR:HB2	1.98	0.45
1:C:554:ARG:C	1:C:554:ARG:CD	2.85	0.45
1:C:567:TYR:HB3	1:C:570:ASN:HB3	1.96	0.45
1:C:577:GLN:O	1:C:580:PHE:HD1	1.98	0.45
1:C:2210:PHE:HE2	1:C:2647:LEU:CG	2.29	0.45
1:C:2278:SER:HB2	1:C:2281:PHE:HZ	1.60	0.45
1:C:2365:LYS:HD2	1:C:2368:PHE:HB3	1.99	0.45
1:C:2398:TYR:O	1:C:2398:TYR:CD1	2.70	0.45
1:C:2639:TRP:CE3	1:C:2639:TRP:O	2.70	0.45
1:C:2696:ARG:HH22	1:B:2696:ARG:NH2	2.14	0.45
1:B:558:ARG:HA	1:B:561:ARG:HD3	1.98	0.45
1:B:2361:ASN:ND2	1:B:2401:ILE:CD1	2.50	0.45
1:B:2398:TYR:CD1	1:B:2398:TYR:O	2.70	0.45
1:B:2412:PHE:C	1:B:2414:SER:H	2.14	0.45
1:B:2441:ILE:O	1:B:2444:THR:HG22	2.17	0.45
1:B:2649:LYS:C	1:B:2650:VAL:CG2	2.54	0.45
1:B:2698:LEU:C	1:B:2698:LEU:CD2	2.86	0.45
1:D:2285:VAL:CG2	1:D:2417:LEU:CD1	2.61	0.45
1:D:2348:VAL:CB	1:D:2353:THR:HG22	2.31	0.45
1:D:2369:LEU:HG	1:D:2370:MET:HE3	1.99	0.45
1:A:2213:PRO:CD	1:A:2647:LEU:CD1	2.93	0.45
1:A:2651:LYS:HE2	1:A:2652:ASP:N	2.32	0.45
1:C:143:GLU:OE2	1:C:145:ASN:ND2	2.37	0.45
1:C:2197:GLU:HA	1:C:2207:GLN:HA	1.99	0.45
1:C:2345:ILE:HD12	1:C:2357:LEU:HD23	1.99	0.45
1:B:77:LYS:HB2	1:B:78:PRO:CD	2.47	0.45
1:B:256:HIS:HB3	1:B:261:HIS:HD2	1.82	0.45
1:B:578:PHE:CD1	1:B:578:PHE:O	2.70	0.45
1:B:646:PRO:CA	1:B:650:GLU:H	2.29	0.45
1:B:2401:ILE:CD1	1:B:2401:ILE:C	2.85	0.45
1:B:2621:PHE:HA	1:B:2624:LYS:CG	2.47	0.45
1:D:520:PHE:CE1	1:D:523:LEU:HD11	2.45	0.45
1:D:2653:SER:OG	1:D:2664:ALA:HB2	2.16	0.45
1:A:11:ILE:HD12	1:A:62:PRO:HG3	1.99	0.44
1:A:2530:THR:HG23	1:A:2534:CYS:HB3	1.98	0.44
1:A:2645:ILE:HA	1:A:2648:VAL:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:256:HIS:HB3	1:C:261:HIS:HD2	1.81	0.44
1:C:578:PHE:CD1	1:C:578:PHE:O	2.70	0.44
1:C:1302:HIS:C	1:B:144:LYS:CB	2.80	0.44
1:C:2201:LEU:HB3	1:C:2202:ASP:H	1.56	0.44
1:C:2285:VAL:O	1:C:2287:MET:CA	2.64	0.44
1:B:379:ASP:OD2	1:B:379:ASP:N	2.50	0.44
1:B:554:ARG:C	1:B:554:ARG:CD	2.85	0.44
1:B:2188:PHE:HA	1:B:2191:LYS:HD3	1.99	0.44
1:B:2201:LEU:HA	1:B:2201:LEU:HD22	1.34	0.44
1:B:2239:LYS:HZ2	1:B:2677:ARG:HA	1.81	0.44
1:B:2729:GLN:O	1:B:2732:ARG:N	2.50	0.44
1:D:77:LYS:HB2	1:D:78:PRO:CD	2.47	0.44
1:D:2215:ILE:O	1:D:2254:MET:HE1	2.17	0.44
1:A:578:PHE:CD1	1:A:578:PHE:O	2.70	0.44
1:A:584:GLN:HE21	1:A:585:ILE:HG22	1.82	0.44
1:A:1107:GLN:O	1:A:1108:ASP:C	2.53	0.44
1:A:2216:CYS:SG	1:A:2646:VAL:CB	3.02	0.44
1:A:2698:LEU:C	1:A:2698:LEU:CD2	2.86	0.44
1:C:817:ASP:CA	1:C:878:PHE:C	2.84	0.44
1:C:2196:ILE:N	1:C:2208:ILE:O	2.47	0.44
1:C:2365:LYS:HE3	1:C:2395:HIS:O	2.16	0.44
1:C:2698:LEU:C	1:C:2698:LEU:CD2	2.85	0.44
1:B:503:ASN:ND2	1:B:505:GLU:HB2	2.31	0.44
1:B:638:CYS:C	1:B:639:VAL:O	2.55	0.44
1:B:2345:ILE:CD1	1:B:2357:LEU:CD2	2.95	0.44
1:D:72:PHE:CE1	1:D:93:HIS:CD2	3.05	0.44
1:D:578:PHE:CD1	1:D:578:PHE:O	2.70	0.44
1:D:2197:GLU:HA	1:D:2207:GLN:HA	1.99	0.44
1:D:2729:GLN:O	1:D:2732:ARG:N	2.50	0.44
1:A:92:LEU:H	1:A:92:LEU:HD13	1.79	0.44
1:A:318:VAL:HA	1:A:353:TYR:HB2	1.98	0.44
1:A:2285:VAL:CG1	1:A:2286:LEU:H	2.24	0.44
1:C:1806:ASN:O	1:C:1810:ASP:N	2.43	0.44
1:C:2201:LEU:HD12	1:C:2203:ARG:NH2	2.31	0.44
1:C:2352:PRO:HA	1:C:2355:PHE:CD2	2.51	0.44
1:C:2375:ASN:ND2	1:C:2375:ASN:N	2.65	0.44
1:C:2448:ALA:O	1:C:2452:VAL:N	2.39	0.44
1:C:2645:ILE:HA	1:C:2648:VAL:HG22	1.98	0.44
1:B:2285:VAL:O	1:B:2286:LEU:C	2.54	0.44
1:B:2620:LYS:O	1:B:2624:LYS:HG2	2.16	0.44
1:D:507:GLN:CG	1:D:567:TYR:CE1	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2398:TYR:CD1	1:D:2398:TYR:O	2.70	0.44
1:A:273:THR:OG1	1:A:274:SER:N	2.49	0.44
1:C:74:LYS:CE	1:C:74:LYS:CA	2.85	0.44
1:C:92:LEU:H	1:C:92:LEU:HD13	1.79	0.44
1:C:520:PHE:CE1	1:C:523:LEU:HD11	2.45	0.44
1:C:2642:LEU:HD13	1:C:2642:LEU:H	1.81	0.44
1:B:638:CYS:O	1:B:642:ASN:N	2.50	0.44
1:B:2201:LEU:HA	1:B:2662:TYR:OH	2.15	0.44
1:B:2639:TRP:CE3	1:B:2639:TRP:O	2.70	0.44
1:B:2653:SER:OG	1:B:2664:ALA:HB2	2.16	0.44
1:D:2572:LEU:HD23	1:D:2572:LEU:HA	1.73	0.44
1:A:2345:ILE:CD1	1:A:2357:LEU:CD2	2.95	0.44
1:A:2559:GLU:OE2	1:A:2562:LEU:CG	2.47	0.44
1:A:2576:MET:HE2	1:A:2580:ILE:CD1	2.44	0.44
1:C:2272:ASN:O	1:C:2276:TRP:HD1	1.79	0.44
1:C:2441:ILE:O	1:C:2444:THR:HG22	2.17	0.44
1:C:2729:GLN:O	1:C:2732:ARG:N	2.50	0.44
1:B:523:LEU:C	1:B:523:LEU:CD2	2.85	0.44
1:B:584:GLN:HE21	1:B:585:ILE:HG22	1.82	0.44
1:B:2285:VAL:O	1:B:2287:MET:CA	2.64	0.44
1:B:2360:PHE:O	1:B:2364:ASN:N	2.38	0.44
1:B:2365:LYS:HD2	1:B:2368:PHE:HB3	1.99	0.44
1:D:516:LEU:H	1:D:516:LEU:CD1	2.14	0.44
1:D:2651:LYS:HE2	1:D:2652:ASP:N	2.32	0.44
1:A:638:CYS:O	1:A:639:VAL:O	2.36	0.44
1:A:2585:ILE:HA	1:A:2585:ILE:HD13	1.53	0.44
1:C:77:LYS:HZ2	1:C:77:LYS:N	2.06	0.44
1:C:127:LYS:O	1:C:441:ARG:CG	2.65	0.44
1:C:2621:PHE:HA	1:C:2624:LYS:CG	2.47	0.44
1:C:2735:LEU:HD22	1:C:2735:LEU:C	2.35	0.44
1:B:2258:LYS:HA	1:B:2258:LYS:HD2	1.77	0.44
1:D:77:LYS:HZ2	1:D:77:LYS:N	2.06	0.44
1:D:460:LEU:HD22	1:D:460:LEU:HA	1.62	0.44
1:D:510:MET:C	1:D:515:ILE:CG2	2.81	0.44
1:D:1072:TYR:O	1:D:1073:PRO:C	2.55	0.44
1:D:2345:ILE:CD1	1:D:2357:LEU:CD2	2.95	0.44
1:D:2345:ILE:HD12	1:D:2357:LEU:HD23	1.99	0.44
1:D:2639:TRP:CE3	1:D:2639:TRP:O	2.70	0.44
1:D:2726:GLN:N	1:D:2726:GLN:CD	2.71	0.44
1:A:91:LYS:HA	1:A:94:HIS:HD2	1.81	0.44
1:A:462:LYS:HD3	1:A:462:LYS:HA	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1808:VAL:O	1:A:1812:ILE:N	2.40	0.44
1:A:2354:LEU:C	1:A:2354:LEU:CD1	2.85	0.44
1:A:2365:LYS:HZ1	1:A:2368:PHE:HD2	1.55	0.44
1:A:2441:ILE:O	1:A:2444:THR:HG22	2.17	0.44
1:A:2707:LYS:CD	1:A:2711:ASN:ND2	2.74	0.44
1:C:441:ARG:NH1	1:C:441:ARG:CB	2.81	0.44
1:C:510:MET:O	1:C:515:ILE:HG22	2.08	0.44
1:C:574:ILE:HG13	1:C:575:ALA:N	2.33	0.44
1:C:2345:ILE:CD1	1:C:2356:LEU:CG	2.80	0.44
1:C:2738:HIS:O	1:C:2738:HIS:CG	2.70	0.44
1:B:2345:ILE:HD12	1:B:2357:LEU:HD23	1.99	0.44
1:B:2566:ARG:C	1:B:2566:ARG:NE	2.71	0.44
1:B:2642:LEU:HD13	1:B:2642:LEU:H	1.81	0.44
1:D:460:LEU:C	1:D:460:LEU:CD1	2.85	0.44
1:D:2188:PHE:HA	1:D:2191:LYS:HD3	1.99	0.44
1:D:2365:LYS:HD2	1:D:2368:PHE:HB3	1.99	0.44
1:D:2698:LEU:C	1:D:2698:LEU:CD2	2.85	0.44
1:A:256:HIS:HB3	1:A:261:HIS:HD2	1.81	0.44
1:A:1072:TYR:O	1:A:1073:PRO:C	2.55	0.44
1:A:1806:ASN:O	1:A:1810:ASP:N	2.43	0.44
1:A:2197:GLU:HA	1:A:2207:GLN:HA	1.99	0.44
1:A:2285:VAL:O	1:A:2287:MET:CA	2.64	0.44
1:C:11:ILE:HD12	1:C:62:PRO:HG3	1.99	0.44
1:C:13:ASP:HB2	1:C:60:LEU:HD23	2.00	0.44
1:C:97:ASP:HA	1:C:100:LYS:HG2	1.99	0.44
1:C:558:ARG:HA	1:C:561:ARG:HD3	1.98	0.44
1:C:2188:PHE:HA	1:C:2191:LYS:HD3	1.99	0.44
1:C:2222:GLU:H	1:C:2222:GLU:HG3	1.59	0.44
1:C:2250:LEU:HA	1:C:2250:LEU:HD22	1.41	0.44
1:C:2423:ARG:C	1:C:2423:ARG:CD	2.84	0.44
1:B:45:ASP:HB2	1:B:48:ASN:H	1.83	0.44
1:B:72:PHE:CE1	1:B:93:HIS:CB	2.86	0.44
1:B:2727:ARG:NE	1:B:2727:ARG:CA	2.73	0.44
1:B:2728:LYS:O	1:B:2731:GLN:HB2	2.18	0.44
1:D:45:ASP:HB2	1:D:48:ASN:HB2	1.99	0.44
1:D:574:ILE:HG13	1:D:575:ALA:N	2.33	0.44
1:D:2278:SER:HB2	1:D:2281:PHE:HZ	1.60	0.44
1:D:2576:MET:HE1	1:D:2580:ILE:CD1	2.44	0.44
1:A:2278:SER:O	1:A:2281:PHE:CZ	2.58	0.44
1:A:2280:SER:OG	1:A:2281:PHE:N	2.51	0.44
1:A:2365:LYS:HE2	1:A:2398:TYR:CB	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2584:LEU:HD23	1:A:2584:LEU:HA	1.68	0.44
1:C:45:ASP:HB2	1:C:48:ASN:HB2	1.99	0.44
1:C:265:ARG:NE	1:C:265:ARG:CA	2.70	0.44
1:C:269:ARG:HD3	1:C:272:ALA:CB	2.48	0.44
1:C:355:LEU:HD22	1:C:418:ILE:HB	2.00	0.44
1:C:1842:SER:O	1:C:1846:ARG:N	2.41	0.44
1:C:2345:ILE:CD1	1:C:2357:LEU:CD2	2.95	0.44
1:C:2622:ASP:CG	1:C:2628:PHE:CD1	2.74	0.44
1:B:84:THR:HB	1:B:85:ASP:H	1.66	0.44
1:B:91:LYS:HA	1:B:94:HIS:HD2	1.81	0.44
1:B:273:THR:OG1	1:B:274:SER:N	2.49	0.44
1:B:1072:TYR:O	1:B:1073:PRO:C	2.55	0.44
1:B:2272:ASN:CG	1:B:2276:TRP:HZ2	2.17	0.44
1:B:2578:ILE:HG23	1:B:2579:ILE:CG1	2.48	0.44
1:B:2651:LYS:HE2	1:B:2652:ASP:N	2.32	0.44
1:D:194:HIS:N	1:D:210:ASN:O	2.36	0.44
1:D:1172:ASN:O	1:D:1176:VAL:N	2.51	0.44
1:D:1791:SER:O	1:D:1795:VAL:N	2.37	0.44
1:D:2280:SER:OG	1:D:2281:PHE:N	2.51	0.44
1:D:2370:MET:HA	1:D:2370:MET:HE2	1.94	0.44
1:D:2566:ARG:C	1:D:2566:ARG:NE	2.71	0.44
1:A:97:ASP:HA	1:A:100:LYS:HG2	1.99	0.43
1:A:564:GLN:CA	1:A:574:ILE:HD12	2.47	0.43
1:A:638:CYS:C	1:A:639:VAL:O	2.55	0.43
1:A:2240:ILE:C	1:A:2242:ASP:N	2.70	0.43
1:A:2707:LYS:CD	1:A:2711:ASN:HD21	2.19	0.43
1:C:638:CYS:O	1:C:642:ASN:N	2.50	0.43
1:C:2354:LEU:C	1:C:2354:LEU:CD1	2.85	0.43
1:C:2632:ILE:H	1:C:2632:ILE:HG13	1.39	0.43
1:C:2651:LYS:HE2	1:C:2652:ASP:N	2.32	0.43
1:C:2653:SER:OG	1:C:2664:ALA:HB2	2.16	0.43
1:B:45:ASP:HB2	1:B:48:ASN:HB2	1.99	0.43
1:B:69:GLN:CD	1:B:100:LYS:HD2	1.90	0.43
1:B:760:ASP:C	1:B:762:ASP:N	2.68	0.43
1:B:1172:ASN:O	1:B:1176:VAL:N	2.51	0.43
1:B:2369:LEU:HG	1:B:2370:MET:HE3	2.00	0.43
1:D:108:ARG:NH2	1:D:111:LEU:HD12	2.32	0.43
1:D:318:VAL:HA	1:D:353:TYR:HB2	1.98	0.43
1:D:355:LEU:HD22	1:D:418:ILE:HB	2.00	0.43
1:D:1871:ILE:O	1:D:1875:VAL:N	2.47	0.43
1:D:2441:ILE:O	1:D:2444:THR:HG22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2621:PHE:HA	1:D:2624:LYS:CG	2.47	0.43
1:D:2735:LEU:HD22	1:D:2735:LEU:C	2.34	0.43
1:A:1619:VAL:O	1:A:1621:ALA:C	2.50	0.43
1:A:2188:PHE:HA	1:A:2191:LYS:HD3	1.99	0.43
1:A:2576:MET:HE2	1:A:2580:ILE:HD12	1.99	0.43
1:A:2699:GLN:HB3	1:B:2699:GLN:OE1	2.05	0.43
1:A:2728:LYS:O	1:A:2731:GLN:HB2	2.18	0.43
1:C:584:GLN:HE21	1:C:585:ILE:HG22	1.82	0.43
1:C:1072:TYR:O	1:C:1073:PRO:C	2.55	0.43
1:C:1072:TYR:O	1:C:1075:LEU:C	2.47	0.43
1:C:2366:ILE:HD13	1:C:2366:ILE:HA	1.57	0.43
1:B:2103:ARG:O	1:B:2105:ASP:N	2.39	0.43
1:B:2199:VAL:HG21	1:B:2680:ALA:HB2	2.00	0.43
1:B:2558:LYS:HA	1:B:2558:LYS:HD3	1.77	0.43
1:D:2728:LYS:O	1:D:2731:GLN:HB2	2.18	0.43
1:A:460:LEU:HA	1:A:460:LEU:HD22	1.62	0.43
1:A:2278:SER:HB2	1:A:2281:PHE:HZ	1.60	0.43
1:A:2578:ILE:HG23	1:A:2579:ILE:CG1	2.48	0.43
1:C:443:LEU:C	1:C:443:LEU:CD2	2.84	0.43
1:C:2258:LYS:HD2	1:C:2261:ARG:HG3	2.01	0.43
1:C:2280:SER:OG	1:C:2281:PHE:N	2.51	0.43
1:C:2728:LYS:O	1:C:2731:GLN:HB2	2.18	0.43
1:B:475:LYS:HA	1:B:552:ILE:HD13	2.00	0.43
1:B:1292:VAL:O	1:B:1296:VAL:N	2.51	0.43
1:B:2258:LYS:HD2	1:B:2261:ARG:HG3	2.01	0.43
1:B:2280:SER:OG	1:B:2281:PHE:N	2.51	0.43
1:D:2370:MET:CE	1:D:2370:MET:CA	2.85	0.43
1:D:2412:PHE:HD1	1:D:2415:LEU:CD1	2.31	0.43
1:A:475:LYS:HA	1:A:552:ILE:HD13	2.00	0.43
1:A:2566:ARG:NE	1:A:2566:ARG:C	2.71	0.43
1:A:2654:THR:C	1:A:2657:THR:HG22	2.27	0.43
1:C:523:LEU:HD22	1:C:527:PHE:HB3	2.01	0.43
1:C:2566:ARG:C	1:C:2566:ARG:NE	2.71	0.43
1:B:15:CYS:HA	1:B:223:PHE:H	1.84	0.43
1:B:355:LEU:HD22	1:B:418:ILE:HB	2.00	0.43
1:B:1085:ARG:O	1:B:1088:SER:N	2.47	0.43
1:D:13:ASP:HB2	1:D:60:LEU:HD23	2.00	0.43
1:D:524:GLN:HA	1:D:527:PHE:CD2	2.45	0.43
1:D:2276:TRP:HB3	1:D:2367:ILE:HD12	1.96	0.43
1:A:15:CYS:HA	1:A:223:PHE:H	1.84	0.43
1:A:2026:ASN:O	1:A:2029:ASN:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:LEU:HD22	1:B:527:PHE:HB3	2.01	0.43
1:B:2366:ILE:HA	1:B:2366:ILE:HD13	1.57	0.43
1:B:2384:ARG:O	1:B:2388:LEU:HD23	2.06	0.43
1:D:401:SER:N	1:D:428:GLU:OE2	2.52	0.43
1:D:584:GLN:HE21	1:D:585:ILE:HG22	1.82	0.43
1:D:2621:PHE:CA	1:D:2624:LYS:HG2	2.48	0.43
1:D:2707:LYS:CD	1:D:2711:ASN:HD21	2.19	0.43
1:A:8:PHE:CE2	1:A:115:ILE:HB	2.54	0.43
1:A:45:ASP:HB2	1:A:48:ASN:HB2	1.99	0.43
1:A:401:SER:N	1:A:428:GLU:OE2	2.52	0.43
1:A:523:LEU:HD22	1:A:527:PHE:HB3	2.01	0.43
1:A:574:ILE:HG13	1:A:575:ALA:N	2.33	0.43
1:A:1172:ASN:O	1:A:1176:VAL:N	2.51	0.43
1:A:2104:HIS:O	1:A:2105:ASP:C	2.56	0.43
1:A:2201:LEU:HA	1:A:2201:LEU:HD22	1.34	0.43
1:A:2285:VAL:CG2	1:A:2417:LEU:CD1	2.61	0.43
1:A:2707:LYS:HD3	1:B:2706:MET:HB3	2.01	0.43
1:C:2104:HIS:O	1:C:2105:ASP:C	2.56	0.43
1:C:2656:TYR:O	1:C:2660:GLU:HG3	2.18	0.43
1:B:13:ASP:HB2	1:B:60:LEU:HD23	2.00	0.43
1:B:401:SER:N	1:B:428:GLU:OE2	2.52	0.43
1:B:574:ILE:HG13	1:B:575:ALA:N	2.33	0.43
1:B:638:CYS:O	1:B:639:VAL:O	2.36	0.43
1:B:2239:LYS:HG2	1:B:2240:ILE:CB	2.47	0.43
1:B:2354:LEU:C	1:B:2354:LEU:CD1	2.85	0.43
1:B:2554:ARG:NE	1:B:2554:ARG:HA	2.34	0.43
1:D:475:LYS:HA	1:D:552:ILE:HD13	2.00	0.43
1:D:1806:ASN:O	1:D:1810:ASP:N	2.43	0.43
1:D:2285:VAL:CB	1:D:2417:LEU:HD13	2.43	0.43
1:D:2397:LEU:HD23	1:D:2397:LEU:HA	1.46	0.43
1:A:269:ARG:HD3	1:A:272:ALA:CB	2.48	0.43
1:A:2365:LYS:HD2	1:A:2368:PHE:HB3	1.99	0.43
1:A:2738:HIS:O	1:A:2738:HIS:CG	2.70	0.43
1:C:2239:LYS:HG2	1:C:2240:ILE:CB	2.47	0.43
1:C:2597:ARG:O	1:C:2600:LYS:N	2.50	0.43
1:C:2661:SER:HA	1:C:2664:ALA:HB3	2.01	0.43
1:B:127:LYS:O	1:B:441:ARG:CG	2.65	0.43
1:B:2104:HIS:O	1:B:2105:ASP:C	2.56	0.43
1:B:2350:LEU:N	1:B:2350:LEU:HD22	2.34	0.43
1:B:2654:THR:C	1:B:2657:THR:HG22	2.27	0.43
1:B:2732:ARG:CB	1:B:2732:ARG:NH1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:45:ASP:HB2	1:D:48:ASN:H	1.83	0.43
1:D:523:LEU:HD22	1:D:527:PHE:HB3	2.01	0.43
1:D:1292:VAL:O	1:D:1296:VAL:N	2.51	0.43
1:D:2201:LEU:HB3	1:D:2202:ASP:H	1.56	0.43
1:A:515:ILE:HD12	1:A:515:ILE:C	2.35	0.43
1:A:1292:VAL:O	1:A:1296:VAL:N	2.51	0.43
1:A:2200:ARG:HB2	1:A:2662:TYR:CD2	2.49	0.43
1:A:2234:ASP:N	1:A:2234:ASP:OD1	2.46	0.43
1:A:2286:LEU:HD13	1:A:2342:LEU:HD21	2.01	0.43
1:A:2590:ILE:HD12	1:A:2590:ILE:HA	1.72	0.43
1:C:45:ASP:HB2	1:C:48:ASN:H	1.83	0.43
1:C:462:LYS:HD3	1:C:462:LYS:HA	1.64	0.43
1:C:1292:VAL:O	1:C:1296:VAL:N	2.51	0.43
1:C:2365:LYS:NZ	1:C:2395:HIS:HA	2.34	0.43
1:C:2400:LEU:HD23	1:C:2400:LEU:HA	1.69	0.43
1:B:2197:GLU:HA	1:B:2207:GLN:HA	1.99	0.43
1:D:134:VAL:HG22	1:D:149:VAL:HG22	2.00	0.43
1:D:608:LYS:C	1:D:610:ILE:N	2.72	0.43
1:D:2104:HIS:O	1:D:2105:ASP:C	2.57	0.43
1:A:355:LEU:HD22	1:A:418:ILE:HB	2.00	0.43
1:A:514:ASN:O	1:A:516:LEU:N	2.51	0.43
1:A:2199:VAL:HG21	1:A:2680:ALA:HB2	2.00	0.43
1:A:2375:ASN:ND2	1:A:2375:ASN:N	2.65	0.43
1:A:2575:PHE:CE2	1:A:2579:ILE:HG13	2.54	0.43
1:A:2732:ARG:O	1:A:2732:ARG:HG2	2.19	0.43
1:C:252:THR:O	1:C:263:PHE:N	2.37	0.43
1:C:475:LYS:HA	1:C:552:ILE:HD13	2.00	0.43
1:C:546:HIS:HB2	1:C:547:ALA:H	1.48	0.43
1:C:638:CYS:O	1:C:639:VAL:O	2.36	0.43
1:C:1172:ASN:O	1:C:1176:VAL:N	2.51	0.43
1:C:2199:VAL:HG21	1:C:2680:ALA:HB2	2.00	0.43
1:C:2398:TYR:CE1	1:C:2401:ILE:HG12	2.54	0.43
1:C:2401:ILE:HG12	1:C:2416:LEU:CD1	2.48	0.43
1:B:77:LYS:HD3	1:B:77:LYS:HA	1.92	0.43
1:B:481:VAL:CG1	1:B:559:VAL:HG11	2.45	0.43
1:B:817:ASP:CA	1:B:878:PHE:C	2.84	0.43
1:B:2290:LEU:HD13	1:B:2290:LEU:O	2.19	0.43
1:B:2423:ARG:C	1:B:2423:ARG:CD	2.84	0.43
1:B:2559:GLU:C	1:B:2563:PHE:CD1	2.93	0.43
1:D:108:ARG:HH11	1:D:108:ARG:CG	2.08	0.43
1:D:481:VAL:CG1	1:D:559:VAL:HG11	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1085:ARG:O	1:D:1088:SER:N	2.47	0.43
1:D:2258:LYS:HA	1:D:2258:LYS:HD2	1.77	0.43
1:D:2401:ILE:HG12	1:D:2416:LEU:CD1	2.48	0.43
1:D:2428:LEU:HD22	1:D:2428:LEU:C	2.32	0.43
1:A:45:ASP:HB2	1:A:48:ASN:H	1.83	0.43
1:A:134:VAL:HG22	1:A:149:VAL:HG22	2.00	0.43
1:A:517:LYS:N	1:A:517:LYS:CE	2.82	0.43
1:A:555:LEU:HD23	1:A:555:LEU:HA	1.72	0.43
1:A:2258:LYS:HD2	1:A:2258:LYS:HA	1.77	0.43
1:A:2258:LYS:HD2	1:A:2261:ARG:HG3	2.01	0.43
1:A:2554:ARG:HA	1:A:2554:ARG:NE	2.34	0.43
1:A:2732:ARG:CD	1:A:2733:ILE:HD13	2.49	0.43
1:C:2412:PHE:HD1	1:C:2415:LEU:CD1	2.31	0.43
1:B:108:ARG:NH1	1:B:108:ARG:C	2.73	0.43
1:B:449:ALA:O	1:B:453:LEU:N	2.30	0.43
1:B:477:LEU:HD22	1:B:556:CYS:HB3	2.01	0.43
1:B:2365:LYS:NZ	1:B:2395:HIS:HA	2.34	0.43
1:D:11:ILE:HD12	1:D:62:PRO:HG3	1.99	0.43
1:D:2559:GLU:C	1:D:2563:PHE:CD1	2.93	0.43
1:D:2661:SER:HA	1:D:2664:ALA:HB3	2.01	0.43
1:A:85:ASP:N	1:A:89:LEU:HD12	2.34	0.42
1:A:1797:CYS:O	1:A:1801:LYS:N	2.39	0.42
1:A:2039:SER:O	1:A:2043:TYR:N	2.46	0.42
1:A:2192:HIS:CD2	1:A:2211:PRO:HA	2.54	0.42
1:A:2558:LYS:NZ	1:B:2528:CYS:HA	2.34	0.42
1:A:2735:LEU:HD22	1:A:2735:LEU:C	2.35	0.42
1:C:8:PHE:CE2	1:C:115:ILE:HB	2.54	0.42
1:C:134:VAL:HG22	1:C:149:VAL:HG22	2.00	0.42
1:C:608:LYS:C	1:C:610:ILE:N	2.72	0.42
1:C:1792:LEU:O	1:C:1797:CYS:N	2.44	0.42
1:C:2200:ARG:CD	1:C:2662:TYR:CG	2.92	0.42
1:C:2256:TRP:CZ2	1:C:2377:GLY:HA3	2.54	0.42
1:C:2554:ARG:NE	1:C:2554:ARG:HA	2.34	0.42
1:C:2559:GLU:C	1:C:2563:PHE:CD1	2.93	0.42
1:B:85:ASP:N	1:B:89:LEU:HD12	2.34	0.42
1:B:94:HIS:ND1	1:B:94:HIS:C	2.72	0.42
1:B:2192:HIS:CD2	1:B:2211:PRO:HA	2.54	0.42
1:B:2726:GLN:N	1:B:2726:GLN:CD	2.71	0.42
1:D:638:CYS:O	1:D:639:VAL:O	2.36	0.42
1:D:2285:VAL:CG1	1:D:2286:LEU:H	2.24	0.42
1:D:2398:TYR:CE1	1:D:2401:ILE:HG12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2441:ILE:HD12	1:D:2441:ILE:HA	1.77	0.42
1:D:2590:ILE:HA	1:D:2590:ILE:HD12	1.72	0.42
1:A:2401:ILE:HG12	1:A:2416:LEU:CD1	2.48	0.42
1:A:2559:GLU:C	1:A:2563:PHE:CD1	2.93	0.42
1:A:2709:VAL:HA	1:A:2712:LEU:HD22	2.01	0.42
1:C:92:LEU:H	1:C:92:LEU:CD1	2.31	0.42
1:C:2345:ILE:HD11	1:C:2356:LEU:HG	2.00	0.42
1:B:8:PHE:CE2	1:B:115:ILE:HB	2.54	0.42
1:B:515:ILE:HD12	1:B:515:ILE:C	2.35	0.42
1:B:555:LEU:HD23	1:B:555:LEU:HA	1.72	0.42
1:B:1871:ILE:O	1:B:1875:VAL:N	2.47	0.42
1:B:2530:THR:HA	1:B:2534:CYS:HB3	2.01	0.42
1:B:2639:TRP:CE3	1:B:2639:TRP:CA	3.02	0.42
1:B:2709:VAL:HA	1:B:2712:LEU:HD22	2.01	0.42
1:B:2732:ARG:O	1:B:2732:ARG:HG2	2.19	0.42
1:D:2199:VAL:HG21	1:D:2680:ALA:HB2	2.00	0.42
1:D:2258:LYS:HD2	1:D:2261:ARG:HG3	2.01	0.42
1:D:2575:PHE:CE2	1:D:2579:ILE:HG13	2.54	0.42
1:A:80:ALA:C	1:A:81:ASN:ND2	2.73	0.42
1:A:94:HIS:ND1	1:A:94:HIS:C	2.72	0.42
1:A:264:LEU:C	1:A:264:LEU:HD12	2.40	0.42
1:A:582:GLN:NE2	1:A:582:GLN:C	2.73	0.42
1:A:2288:ASN:O	1:A:2289:LEU:C	2.57	0.42
1:A:2412:PHE:HD1	1:A:2415:LEU:CD1	2.31	0.42
1:A:2606:ILE:HA	1:A:2610:THR:HG22	2.02	0.42
1:C:85:ASP:N	1:C:89:LEU:HD12	2.34	0.42
1:C:108:ARG:NH1	1:C:108:ARG:C	2.73	0.42
1:C:401:SER:N	1:C:428:GLU:OE2	2.52	0.42
1:C:517:LYS:N	1:C:517:LYS:CE	2.82	0.42
1:C:554:ARG:NE	1:C:554:ARG:C	2.73	0.42
1:C:2530:THR:HA	1:C:2534:CYS:HB3	2.01	0.42
1:C:2558:LYS:HD2	1:C:2560:GLU:HG2	1.95	0.42
1:C:2621:PHE:CA	1:C:2624:LYS:HG2	2.48	0.42
1:C:2732:ARG:CD	1:C:2733:ILE:HD13	2.49	0.42
1:B:516:LEU:N	1:B:516:LEU:CD1	2.79	0.42
1:B:2201:LEU:HD12	1:B:2203:ARG:NH2	2.31	0.42
1:B:2281:PHE:CD1	1:B:2282:ASN:N	2.87	0.42
1:B:2606:ILE:HA	1:B:2610:THR:HG22	2.02	0.42
1:D:8:PHE:CE2	1:D:115:ILE:HB	2.54	0.42
1:D:85:ASP:N	1:D:89:LEU:HD12	2.34	0.42
1:D:2281:PHE:CD1	1:D:2282:ASN:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2369:LEU:HG	1:D:2370:MET:CE	2.49	0.42
1:A:13:ASP:HB2	1:A:60:LEU:HD23	2.00	0.42
1:A:77:LYS:HB2	1:A:78:PRO:CD	2.47	0.42
1:A:2256:TRP:CZ2	1:A:2377:GLY:CA	3.03	0.42
1:A:2350:LEU:N	1:A:2350:LEU:HD22	2.34	0.42
1:A:2656:TYR:O	1:A:2660:GLU:HG3	2.18	0.42
1:C:77:LYS:HB2	1:C:78:PRO:CD	2.47	0.42
1:C:108:ARG:HH11	1:C:108:ARG:CG	2.08	0.42
1:C:571:GLN:CD	1:C:571:GLN:N	2.73	0.42
1:C:2192:HIS:CD2	1:C:2211:PRO:HA	2.54	0.42
1:C:2585:ILE:HA	1:C:2585:ILE:HD13	1.53	0.42
1:C:2639:TRP:CE3	1:C:2639:TRP:CA	3.02	0.42
1:C:2720:LYS:CA	1:C:2720:LYS:CE	2.96	0.42
1:B:104:GLU:C	1:B:106:GLU:N	2.64	0.42
1:B:564:GLN:CA	1:B:574:ILE:HD12	2.47	0.42
1:B:2401:ILE:HG12	1:B:2416:LEU:CD1	2.48	0.42
1:B:2730:LYS:C	1:B:2730:LYS:CD	2.85	0.42
1:D:517:LYS:N	1:D:517:LYS:CE	2.82	0.42
1:D:1995:THR:O	1:D:1998:ASN:CA	2.68	0.42
1:D:2283:LEU:C	1:D:2283:LEU:CD2	2.88	0.42
1:D:2580:ILE:CG2	1:D:2584:LEU:HD12	2.50	0.42
1:D:2694:GLU:OE1	1:D:2694:GLU:HA	2.20	0.42
1:A:2031:ALA:O	1:A:2035:GLN:N	2.44	0.42
1:A:2365:LYS:NZ	1:A:2395:HIS:HA	2.34	0.42
1:A:2369:LEU:HG	1:A:2370:MET:CE	2.49	0.42
1:A:2547:GLY:C	1:B:2545:SER:HA	2.40	0.42
1:A:2644:PHE:CE1	1:A:2648:VAL:HG11	2.55	0.42
1:A:2694:GLU:OE1	1:A:2694:GLU:HA	2.20	0.42
1:C:15:CYS:HA	1:C:223:PHE:H	1.84	0.42
1:C:2281:PHE:CD1	1:C:2282:ASN:N	2.87	0.42
1:C:2286:LEU:CA	1:C:2289:LEU:HD11	2.50	0.42
1:C:2287:MET:O	1:C:2290:LEU:HB2	2.08	0.42
1:C:2288:ASN:C	1:C:2290:LEU:N	2.73	0.42
1:C:2369:LEU:HG	1:C:2370:MET:CE	2.49	0.42
1:C:2694:GLU:OE1	1:C:2694:GLU:HA	2.20	0.42
1:B:269:ARG:HD3	1:B:272:ALA:CB	2.48	0.42
1:B:1072:TYR:O	1:B:1075:LEU:C	2.47	0.42
1:B:2732:ARG:CD	1:B:2733:ILE:HD13	2.49	0.42
1:D:92:LEU:H	1:D:92:LEU:HD13	1.79	0.42
1:D:94:HIS:ND1	1:D:94:HIS:C	2.72	0.42
1:D:108:ARG:NH1	1:D:108:ARG:C	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2286:LEU:HD13	1:D:2342:LEU:HD21	2.01	0.42
1:D:2351:GLN:H	1:D:2352:PRO:HD2	1.82	0.42
1:D:2365:LYS:NZ	1:D:2395:HIS:HA	2.34	0.42
1:D:2597:ARG:O	1:D:2600:LYS:N	2.50	0.42
1:A:1995:THR:O	1:A:1998:ASN:CA	2.68	0.42
1:A:2203:ARG:HE	1:A:2203:ARG:HB2	1.71	0.42
1:A:2240:ILE:N	1:A:2240:ILE:CD1	2.71	0.42
1:A:2345:ILE:HD12	1:A:2357:LEU:HD23	1.99	0.42
1:A:2586:PHE:CD1	1:D:2583:ASN:ND2	2.87	0.42
1:A:2632:ILE:H	1:A:2632:ILE:HG13	1.39	0.42
1:C:254:ASP:O	1:C:261:HIS:N	2.53	0.42
1:C:264:LEU:C	1:C:264:LEU:HD12	2.40	0.42
1:C:1634:GLU:O	1:C:1637:PHE:C	2.58	0.42
1:C:2575:PHE:CE2	1:C:2579:ILE:HG13	2.54	0.42
1:B:2256:TRP:CZ2	1:B:2377:GLY:HA3	2.54	0.42
1:B:2412:PHE:HD1	1:B:2415:LEU:CD1	2.31	0.42
1:B:2558:LYS:C	1:B:2560:GLU:N	2.53	0.42
1:B:2656:TYR:O	1:B:2660:GLU:HG3	2.18	0.42
1:D:15:CYS:HA	1:D:223:PHE:H	1.84	0.42
1:D:441:ARG:NH1	1:D:441:ARG:CB	2.81	0.42
1:D:554:ARG:NE	1:D:554:ARG:C	2.73	0.42
1:D:2200:ARG:HB2	1:D:2662:TYR:CD2	2.49	0.42
1:D:2366:ILE:HA	1:D:2366:ILE:HD13	1.57	0.42
1:D:2554:ARG:HA	1:D:2554:ARG:NE	2.34	0.42
1:D:2709:VAL:HA	1:D:2712:LEU:HD22	2.01	0.42
1:A:72:PHE:HD1	1:A:93:HIS:CB	2.19	0.42
1:A:554:ARG:NE	1:A:554:ARG:C	2.73	0.42
1:C:2279:ILE:HA	1:C:2279:ILE:HD13	1.71	0.42
1:C:2429:ASN:HA	1:C:2432:LYS:HE2	2.02	0.42
1:C:2644:PHE:CE1	1:C:2648:VAL:HG11	2.55	0.42
1:B:1634:GLU:O	1:B:1637:PHE:C	2.58	0.42
1:B:1995:THR:O	1:B:1998:ASN:CA	2.68	0.42
1:B:2585:ILE:HA	1:B:2585:ILE:HD13	1.53	0.42
1:B:2694:GLU:OE1	1:B:2694:GLU:HA	2.20	0.42
1:D:269:ARG:HB2	2:D:2801:JYP:C2	2.33	0.42
1:D:450:SER:HA	1:D:453:LEU:HG	1.94	0.42
1:D:1792:LEU:O	1:D:1797:CYS:N	2.44	0.42
1:A:85:ASP:CA	1:A:89:LEU:HD12	2.50	0.42
1:A:2661:SER:HA	1:A:2664:ALA:HB3	2.01	0.42
1:C:80:ALA:C	1:C:81:ASN:ND2	2.73	0.42
1:C:85:ASP:CA	1:C:89:LEU:HD12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:477:LEU:HD22	1:C:556:CYS:HB3	2.01	0.42
1:C:564:GLN:O	1:C:571:GLN:HG2	2.20	0.42
1:C:2239:LYS:HZ2	1:C:2677:ARG:HA	1.85	0.42
1:C:2290:LEU:HD13	1:C:2290:LEU:O	2.19	0.42
1:C:2411:PHE:H	1:C:2412:PHE:HD2	1.68	0.42
1:C:2580:ILE:CG2	1:C:2584:LEU:HD12	2.50	0.42
1:B:80:ALA:C	1:B:81:ASN:ND2	2.73	0.42
1:B:460:LEU:C	1:B:460:LEU:CD1	2.85	0.42
1:B:2429:ASN:HA	1:B:2432:LYS:HE2	2.02	0.42
1:B:2559:GLU:O	1:B:2562:LEU:HB2	2.20	0.42
1:B:2575:PHE:CE2	1:B:2579:ILE:HG13	2.54	0.42
1:D:477:LEU:HD22	1:D:556:CYS:HB3	2.01	0.42
1:D:482:TYR:HA	1:D:485:THR:HA	2.02	0.42
1:D:582:GLN:NE2	1:D:582:GLN:C	2.73	0.42
1:D:2027:GLU:O	1:D:2028:LYS:C	2.57	0.42
1:D:2256:TRP:CZ2	1:D:2377:GLY:CA	3.03	0.42
1:A:108:ARG:NH1	1:A:108:ARG:C	2.73	0.42
1:A:564:GLN:O	1:A:571:GLN:HG2	2.20	0.42
1:A:2281:PHE:CD1	1:A:2282:ASN:N	2.87	0.42
1:A:2580:ILE:CG2	1:A:2584:LEU:HD12	2.50	0.42
1:C:94:HIS:ND1	1:C:94:HIS:C	2.72	0.42
1:C:305:PHE:HD2	1:C:314:LEU:HD23	1.85	0.42
1:C:2240:ILE:C	1:C:2242:ASP:N	2.70	0.42
1:C:2401:ILE:CG2	1:C:2416:LEU:CD1	2.41	0.42
1:C:2598:SER:HA	1:C:2601:GLN:HE22	1.85	0.42
1:B:254:ASP:O	1:B:261:HIS:N	2.53	0.42
1:B:264:LEU:C	1:B:264:LEU:HD12	2.40	0.42
1:B:517:LYS:N	1:B:517:LYS:CE	2.82	0.42
1:B:2256:TRP:CZ2	1:B:2377:GLY:CA	3.03	0.42
1:B:2286:LEU:HD13	1:B:2342:LEU:HD21	2.01	0.42
1:D:80:ALA:C	1:D:81:ASN:ND2	2.73	0.42
1:D:2656:TYR:O	1:D:2660:GLU:HG3	2.18	0.42
1:A:90:ASN:ND2	1:A:90:ASN:C	2.74	0.42
1:A:1791:SER:O	1:A:1795:VAL:N	2.37	0.42
1:A:2285:VAL:O	1:A:2286:LEU:C	2.54	0.42
1:A:2726:GLN:N	1:A:2726:GLN:CD	2.71	0.42
1:C:14:ILE:HB	1:C:224:MET:HB3	2.02	0.42
1:C:264:LEU:O	1:C:264:LEU:HD12	2.20	0.42
1:C:1995:THR:O	1:C:1998:ASN:CA	2.67	0.42
1:C:2365:LYS:HE2	1:C:2398:TYR:CB	2.37	0.42
1:C:2726:GLN:N	1:C:2726:GLN:CD	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:LEU:C	1:B:443:LEU:CD2	2.84	0.42
1:B:554:ARG:NE	1:B:554:ARG:C	2.73	0.42
1:B:2288:ASN:O	1:B:2289:LEU:C	2.57	0.42
1:B:2369:LEU:HG	1:B:2370:MET:CE	2.49	0.42
1:B:2375:ASN:ND2	1:B:2375:ASN:N	2.65	0.42
1:B:2398:TYR:CE1	1:B:2401:ILE:HG12	2.54	0.42
1:B:2411:PHE:H	1:B:2412:PHE:HD2	1.68	0.42
1:B:2644:PHE:CE1	1:B:2648:VAL:HG11	2.55	0.42
1:B:2712:LEU:HD12	1:B:2712:LEU:HA	1.77	0.42
1:D:125:HIS:HB3	1:D:130:LYS:H	1.85	0.42
1:D:264:LEU:C	1:D:264:LEU:HD12	2.40	0.42
1:D:1245:CYS:C	1:D:1247:GLY:N	2.41	0.42
1:D:2103:ARG:O	1:D:2105:ASP:N	2.39	0.42
1:D:2256:TRP:CZ2	1:D:2377:GLY:HA3	2.54	0.42
1:D:2365:LYS:HE3	1:D:2395:HIS:O	2.16	0.42
1:D:2732:ARG:CD	1:D:2733:ILE:HD13	2.49	0.42
1:A:482:TYR:HA	1:A:485:THR:HA	2.02	0.41
1:A:571:GLN:CD	1:A:571:GLN:N	2.73	0.41
1:A:2290:LEU:HD13	1:A:2290:LEU:O	2.19	0.41
1:A:2558:LYS:CD	1:A:2560:GLU:HG3	2.50	0.41
1:A:2559:GLU:O	1:A:2562:LEU:HB2	2.20	0.41
1:A:2677:ARG:HH21	1:B:2623:ASN:CB	2.28	0.41
1:C:1389:LYS:O	1:C:1436:VAL:CA	2.68	0.41
1:C:2228:TYR:HD1	1:C:2228:TYR:HA	1.74	0.41
1:C:2256:TRP:CZ2	1:C:2377:GLY:CA	3.03	0.41
1:B:482:TYR:HA	1:B:485:THR:HA	2.02	0.41
1:B:608:LYS:C	1:B:610:ILE:N	2.72	0.41
1:B:2240:ILE:C	1:B:2242:ASP:N	2.70	0.41
1:B:2345:ILE:CG2	1:B:2353:THR:HG1	2.15	0.41
1:D:2406:LEU:HD22	1:D:2407:PHE:CD1	2.55	0.41
1:D:2422:TYR:C	1:D:2424:GLU:N	2.74	0.41
1:D:2530:THR:HA	1:D:2534:CYS:HB3	2.01	0.41
1:D:2606:ILE:HA	1:D:2610:THR:HG22	2.02	0.41
1:D:2732:ARG:O	1:D:2732:ARG:HG2	2.19	0.41
1:A:84:THR:HB	1:A:89:LEU:HG	2.02	0.41
1:A:516:LEU:H	1:A:516:LEU:CD1	2.14	0.41
1:A:2256:TRP:CZ2	1:A:2377:GLY:HA3	2.54	0.41
1:A:2388:LEU:CD2	1:A:2388:LEU:N	2.73	0.41
1:A:2406:LEU:HD22	1:A:2407:PHE:CD1	2.55	0.41
1:C:90:ASN:ND2	1:C:90:ASN:C	2.74	0.41
1:C:582:GLN:NE2	1:C:582:GLN:C	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2350:LEU:N	1:C:2350:LEU:HD22	2.34	0.41
1:C:2406:LEU:HD22	1:C:2407:PHE:CD1	2.55	0.41
1:C:2535:ILE:H	1:C:2535:ILE:HG13	1.62	0.41
1:C:2606:ILE:HA	1:C:2610:THR:HG22	2.02	0.41
1:B:571:GLN:CD	1:B:571:GLN:N	2.73	0.41
1:B:2661:SER:HA	1:B:2664:ALA:HB3	2.01	0.41
1:D:76:ALA:HB3	1:D:77:LYS:CE	2.50	0.41
1:D:305:PHE:HD2	1:D:314:LEU:HD23	1.85	0.41
1:D:2160:ALA:O	1:D:2164:ALA:N	2.53	0.41
1:D:2350:LEU:N	1:D:2350:LEU:HD22	2.34	0.41
1:D:2411:PHE:H	1:D:2412:PHE:HD2	1.68	0.41
1:D:2558:LYS:HD2	1:D:2560:GLU:HG2	1.95	0.41
1:D:2639:TRP:CE3	1:D:2639:TRP:CA	3.02	0.41
1:A:76:ALA:HB3	1:A:77:LYS:CE	2.50	0.41
1:A:254:ASP:O	1:A:261:HIS:N	2.53	0.41
1:A:446:ALA:CB	1:A:480:LEU:HD21	2.50	0.41
1:A:507:GLN:HA	1:A:510:MET:SD	2.61	0.41
1:A:562:HIS:ND1	1:A:562:HIS:C	2.72	0.41
1:A:2555:LYS:NZ	1:B:2526:HIS:HB2	2.36	0.41
1:C:74:LYS:HA	1:C:74:LYS:HE2	2.01	0.41
1:C:460:LEU:HD22	1:C:460:LEU:HA	1.62	0.41
1:C:481:VAL:CG1	1:C:559:VAL:HG11	2.45	0.41
1:C:2361:ASN:ND2	1:C:2401:ILE:CD1	2.50	0.41
1:B:2283:LEU:C	1:B:2283:LEU:CD2	2.88	0.41
1:B:2406:LEU:HD22	1:B:2407:PHE:CD1	2.55	0.41
1:B:2422:TYR:C	1:B:2424:GLU:N	2.74	0.41
1:B:2582:LEU:HD23	1:B:2582:LEU:HA	1.53	0.41
1:B:2621:PHE:CA	1:B:2624:LYS:HG2	2.48	0.41
1:D:254:ASP:O	1:D:261:HIS:N	2.53	0.41
1:D:462:LYS:HD3	1:D:462:LYS:HA	1.64	0.41
1:D:571:GLN:CD	1:D:571:GLN:N	2.73	0.41
1:D:2239:LYS:HG2	1:D:2240:ILE:CB	2.47	0.41
1:D:2290:LEU:HD13	1:D:2290:LEU:O	2.19	0.41
1:D:2406:LEU:C	1:D:2406:LEU:HD23	2.41	0.41
1:D:2598:SER:HA	1:D:2601:GLN:HE22	1.85	0.41
1:D:2644:PHE:CE1	1:D:2648:VAL:HG11	2.55	0.41
1:A:73:TRP:HZ3	1:A:156:ASN:HD21	1.69	0.41
1:A:305:PHE:HD2	1:A:314:LEU:HD23	1.85	0.41
1:A:2256:TRP:CZ2	1:A:2377:GLY:N	2.89	0.41
1:A:2398:TYR:CE1	1:A:2401:ILE:HG12	2.54	0.41
1:A:2524:LYS:HD3	1:A:2524:LYS:HA	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2588:VAL:O	1:A:2592:THR:OG1	2.29	0.41
1:A:2598:SER:HA	1:A:2601:GLN:HE22	1.85	0.41
1:A:2639:TRP:CE3	1:A:2639:TRP:CA	3.02	0.41
1:C:76:ALA:HB3	1:C:77:LYS:CE	2.50	0.41
1:C:91:LYS:HA	1:C:94:HIS:CD2	2.56	0.41
1:C:446:ALA:CB	1:C:480:LEU:HD21	2.50	0.41
1:C:482:TYR:HA	1:C:485:THR:HA	2.02	0.41
1:C:2356:LEU:C	1:C:2356:LEU:CD1	2.85	0.41
1:B:90:ASN:ND2	1:B:90:ASN:C	2.74	0.41
1:B:305:PHE:HD2	1:B:314:LEU:HD23	1.85	0.41
1:B:2031:ALA:O	1:B:2035:GLN:N	2.43	0.41
1:B:2288:ASN:C	1:B:2290:LEU:N	2.73	0.41
1:B:2387:VAL:HA	1:B:2390:VAL:HG12	2.03	0.41
1:D:85:ASP:CA	1:D:89:LEU:HD12	2.50	0.41
1:D:264:LEU:O	1:D:264:LEU:HD12	2.20	0.41
1:D:510:MET:O	1:D:515:ILE:HG22	2.08	0.41
1:D:515:ILE:HD12	1:D:515:ILE:C	2.35	0.41
1:D:1634:GLU:O	1:D:1637:PHE:C	2.58	0.41
1:A:269:ARG:HB2	2:A:2801:JYP:C2	2.33	0.41
1:A:2243:PHE:HZ	1:A:2638:MET:C	2.24	0.41
1:C:1791:SER:O	1:C:1795:VAL:N	2.37	0.41
1:C:2256:TRP:CZ2	1:C:2377:GLY:N	2.89	0.41
1:C:2353:THR:HA	1:C:2356:LEU:HD23	2.03	0.41
1:C:2378:THR:HG22	1:C:2380:THR:HB	2.03	0.41
1:B:134:VAL:HG22	1:B:149:VAL:HG22	2.00	0.41
1:B:2222:GLU:H	1:B:2222:GLU:HG3	1.59	0.41
1:B:2252:ASN:HA	1:B:2255:ASN:ND2	2.36	0.41
1:B:2584:LEU:HD23	1:B:2584:LEU:HA	1.68	0.41
1:B:2735:LEU:HD22	1:B:2735:LEU:C	2.35	0.41
1:D:269:ARG:CG	1:D:272:ALA:HB3	2.51	0.41
1:D:507:GLN:HA	1:D:510:MET:SD	2.61	0.41
1:D:564:GLN:O	1:D:571:GLN:HG2	2.20	0.41
1:D:2192:HIS:CD2	1:D:2211:PRO:HA	2.54	0.41
1:D:2201:LEU:HD12	1:D:2203:ARG:NH2	2.31	0.41
1:D:2243:PHE:HZ	1:D:2638:MET:C	2.24	0.41
1:D:2406:LEU:HD22	1:D:2407:PHE:CG	2.56	0.41
1:D:2554:ARG:HH21	1:D:2556:PRO:HD3	1.85	0.41
1:A:125:HIS:HB3	1:A:130:LYS:H	1.85	0.41
1:A:477:LEU:CD2	1:A:556:CYS:HB3	2.51	0.41
1:A:1389:LYS:O	1:A:1436:VAL:CA	2.68	0.41
1:A:2427:LEU:HD13	1:D:2444:THR:OG1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2530:THR:HA	1:A:2534:CYS:HB3	2.01	0.41
1:A:2572:LEU:HA	1:A:2572:LEU:HD23	1.74	0.41
1:C:108:ARG:O	1:C:108:ARG:CZ	2.69	0.41
1:C:2286:LEU:HD13	1:C:2342:LEU:HD21	2.01	0.41
1:C:2422:TYR:C	1:C:2424:GLU:N	2.74	0.41
1:C:2732:ARG:O	1:C:2732:ARG:HG2	2.19	0.41
1:B:125:HIS:HB3	1:B:130:LYS:H	1.85	0.41
1:B:477:LEU:CD2	1:B:556:CYS:HB3	2.51	0.41
1:B:514:ASN:OD1	1:B:516:LEU:HD13	1.95	0.41
1:B:2243:PHE:HZ	1:B:2638:MET:C	2.24	0.41
1:B:2406:LEU:C	1:B:2406:LEU:HD23	2.41	0.41
1:B:2406:LEU:HD22	1:B:2407:PHE:CG	2.56	0.41
1:B:2572:LEU:HD23	1:B:2572:LEU:HA	1.74	0.41
1:D:91:LYS:HA	1:D:94:HIS:CD2	2.56	0.41
1:D:446:ALA:CB	1:D:480:LEU:HD21	2.50	0.41
1:D:2271:ARG:HH12	1:D:2272:ASN:CG	1.88	0.41
1:D:2419:ASP:HA	1:D:2422:TYR:HB3	2.03	0.41
1:D:2429:ASN:HA	1:D:2432:LYS:HE2	2.02	0.41
1:D:2528:CYS:HB2	1:D:2529:GLU:H	1.72	0.41
1:D:2578:ILE:HG23	1:D:2579:ILE:CG1	2.48	0.41
1:A:14:ILE:HB	1:A:224:MET:HB3	2.02	0.41
1:A:69:GLN:H	1:A:100:LYS:HZ3	1.65	0.41
1:A:477:LEU:HD22	1:A:556:CYS:HB3	2.01	0.41
1:A:1380:GLU:CA	1:A:1423:TYR:O	2.69	0.41
1:A:2378:THR:HG22	1:A:2380:THR:HB	2.03	0.41
1:A:2429:ASN:HA	1:A:2432:LYS:HE2	2.02	0.41
1:A:2732:ARG:HD2	1:A:2733:ILE:HD13	2.03	0.41
1:C:84:THR:HB	1:C:89:LEU:HG	2.02	0.41
1:C:477:LEU:CD2	1:C:556:CYS:HB3	2.51	0.41
1:C:2252:ASN:HA	1:C:2255:ASN:ND2	2.36	0.41
1:C:2345:ILE:HD12	1:C:2353:THR:HG1	1.84	0.41
1:C:2709:VAL:HA	1:C:2712:LEU:HD22	2.01	0.41
1:B:14:ILE:HB	1:B:224:MET:HB3	2.02	0.41
1:B:76:ALA:HB3	1:B:77:LYS:CE	2.50	0.41
1:B:85:ASP:CA	1:B:89:LEU:HD12	2.50	0.41
1:B:264:LEU:O	1:B:264:LEU:HD12	2.20	0.41
1:B:497:VAL:CB	1:B:504:ARG:NE	2.83	0.41
1:B:516:LEU:HB2	1:B:517:LYS:HE2	2.03	0.41
1:B:2365:LYS:HE3	1:B:2395:HIS:O	2.16	0.41
1:B:2398:TYR:HA	1:B:2401:ILE:HG23	2.03	0.41
1:B:2409:HIS:C	1:B:2409:HIS:HD1	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2580:ILE:CG2	1:B:2584:LEU:HD12	2.50	0.41
1:D:108:ARG:NH1	1:D:108:ARG:CG	2.72	0.41
1:D:1380:GLU:CA	1:D:1423:TYR:O	2.69	0.41
1:D:2240:ILE:C	1:D:2242:ASP:N	2.70	0.41
1:A:169:LEU:O	1:B:387:TYR:OH	2.17	0.41
1:A:252:THR:O	1:A:263:PHE:N	2.37	0.41
1:A:2201:LEU:N	1:A:2662:TYR:CZ	2.79	0.41
1:A:2286:LEU:CA	1:A:2289:LEU:HD11	2.50	0.41
1:A:2406:LEU:HD22	1:A:2407:PHE:CG	2.56	0.41
1:A:2419:ASP:HA	1:A:2422:TYR:HB3	2.03	0.41
1:A:2700:GLU:OE1	1:B:2699:GLN:CB	2.67	0.41
1:C:125:HIS:HB3	1:C:130:LYS:H	1.85	0.41
1:C:562:HIS:ND1	1:C:562:HIS:C	2.72	0.41
1:C:2398:TYR:HA	1:C:2401:ILE:HG23	2.03	0.41
1:C:2406:LEU:HD22	1:C:2407:PHE:CG	2.56	0.41
1:C:2432:LYS:HE2	1:C:2432:LYS:HB2	1.89	0.41
1:C:2558:LYS:CD	1:C:2560:GLU:HG3	2.49	0.41
1:C:2572:LEU:HD23	1:C:2572:LEU:HA	1.74	0.41
1:C:2732:ARG:HD2	1:C:2733:ILE:HD13	2.03	0.41
1:B:108:ARG:O	1:B:108:ARG:CZ	2.69	0.41
1:B:162:TYR:CZ	1:B:187:VAL:HG22	2.56	0.41
1:B:446:ALA:CB	1:B:480:LEU:HD21	2.50	0.41
1:B:2245:LEU:H	1:B:2245:LEU:HG	1.57	0.41
1:B:2353:THR:HA	1:B:2356:LEU:HD23	2.03	0.41
1:B:2370:MET:HA	1:B:2370:MET:HE2	1.95	0.41
1:B:2400:LEU:HD23	1:B:2400:LEU:HA	1.69	0.41
1:B:2573:PHE:CD1	1:B:2577:VAL:HG23	2.56	0.41
1:D:90:ASN:C	1:D:90:ASN:ND2	2.74	0.41
1:D:497:VAL:CB	1:D:504:ARG:NE	2.83	0.41
1:D:2250:LEU:HA	1:D:2250:LEU:HD22	1.41	0.41
1:D:2387:VAL:HA	1:D:2390:VAL:HG12	2.03	0.41
1:D:2720:LYS:CA	1:D:2720:LYS:CE	2.96	0.41
1:D:2736:LEU:C	1:D:2736:LEU:CD2	2.89	0.41
1:A:264:LEU:O	1:A:264:LEU:HD12	2.20	0.41
1:A:269:ARG:CG	1:A:272:ALA:HB3	2.51	0.41
1:A:281:LEU:HB3	1:A:308:LEU:HB2	2.03	0.41
1:A:438:ALA:HA	1:A:441:ARG:NH2	2.36	0.41
1:A:441:ARG:NH1	1:A:441:ARG:CB	2.81	0.41
1:A:608:LYS:C	1:A:610:ILE:N	2.72	0.41
1:A:2160:ALA:O	1:A:2164:ALA:N	2.53	0.41
1:A:2252:ASN:HA	1:A:2255:ASN:ND2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2345:ILE:CD1	1:A:2356:LEU:CG	2.80	0.41
1:A:2554:ARG:HH21	1:A:2556:PRO:HD3	1.85	0.41
1:A:2558:LYS:HD2	1:A:2560:GLU:HG2	1.94	0.41
1:A:2702:LEU:HD23	1:A:2702:LEU:HA	1.97	0.41
1:C:497:VAL:CB	1:C:504:ARG:NE	2.83	0.41
1:C:2239:LYS:HZ3	1:C:2677:ARG:NE	2.12	0.41
1:C:2524:LYS:HA	1:C:2524:LYS:HD3	1.78	0.41
1:C:2558:LYS:NZ	1:D:2528:CYS:HA	2.36	0.41
1:C:2559:GLU:O	1:C:2562:LEU:HB2	2.20	0.41
1:C:2578:ILE:HG23	1:C:2579:ILE:CG1	2.48	0.41
1:C:2707:LYS:HG2	1:D:2706:MET:CB	2.51	0.41
1:B:84:THR:HB	1:B:89:LEU:HG	2.02	0.41
1:B:200:LEU:HD21	1:B:208:GLU:HB2	2.03	0.41
1:B:486:GLY:O	1:B:510:MET:HE1	2.20	0.41
1:B:582:GLN:NE2	1:B:582:GLN:C	2.73	0.41
1:B:2571:LEU:C	1:B:2571:LEU:CD2	2.89	0.41
1:B:2598:SER:HA	1:B:2601:GLN:HE22	1.85	0.41
1:B:2738:HIS:O	1:B:2738:HIS:CG	2.70	0.41
1:D:73:TRP:HZ3	1:D:156:ASN:HD21	1.69	0.41
1:D:269:ARG:HD3	1:D:272:ALA:CB	2.48	0.41
1:D:281:LEU:HB3	1:D:308:LEU:HB2	2.03	0.41
1:D:1389:LYS:O	1:D:1436:VAL:CA	2.68	0.41
1:D:2245:LEU:H	1:D:2245:LEU:HG	1.57	0.41
1:D:2571:LEU:C	1:D:2571:LEU:CD2	2.89	0.41
1:D:2578:ILE:CD1	1:D:2578:ILE:O	2.68	0.41
1:D:2584:LEU:HA	1:D:2584:LEU:HD23	1.69	0.41
1:D:2647:LEU:O	1:D:2650:VAL:CG2	2.69	0.41
1:A:107:ASN:HA	1:A:110:LEU:HB2	2.03	0.41
1:A:162:TYR:CZ	1:A:187:VAL:HG22	2.56	0.41
1:A:497:VAL:CB	1:A:504:ARG:NE	2.83	0.41
1:A:1818:ASP:O	1:A:1822:HIS:N	2.38	0.41
1:A:2272:ASN:O	1:A:2276:TRP:HD1	1.79	0.41
1:A:2712:LEU:HD12	1:A:2712:LEU:HA	1.77	0.41
1:A:2736:LEU:C	1:A:2736:LEU:CD2	2.89	0.41
1:C:107:ASN:HA	1:C:110:LEU:HB2	2.03	0.41
1:C:507:GLN:HA	1:C:510:MET:SD	2.61	0.41
1:C:1380:GLU:CA	1:C:1423:TYR:O	2.69	0.41
1:C:2343:ARG:HB3	1:C:2346:PHE:HE2	1.87	0.41
1:C:2370:MET:CE	1:C:2370:MET:CA	2.85	0.41
1:C:2428:LEU:HD22	1:C:2428:LEU:C	2.32	0.41
1:C:2428:LEU:C	1:C:2428:LEU:CD1	2.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2444:THR:OG1	1:D:2427:LEU:HD13	2.21	0.41
1:C:2647:LEU:O	1:C:2650:VAL:CG2	2.69	0.41
1:C:2713:SER:HA	1:C:2716:LEU:CD2	2.44	0.41
1:B:441:ARG:NH1	1:B:441:ARG:CB	2.81	0.41
1:B:564:GLN:O	1:B:571:GLN:HG2	2.20	0.41
1:B:1116:LYS:O	1:B:1118:ASP:N	2.54	0.41
1:B:1389:LYS:O	1:B:1436:VAL:CA	2.68	0.41
1:B:2256:TRP:CZ2	1:B:2377:GLY:N	2.89	0.41
1:B:2401:ILE:HG21	1:B:2416:LEU:HD13	0.59	0.41
1:B:2407:PHE:HD1	1:B:2408:VAL:HG22	1.86	0.41
1:B:2554:ARG:HH21	1:B:2556:PRO:HD3	1.85	0.41
1:B:2720:LYS:CA	1:B:2720:LYS:CE	2.96	0.41
1:D:14:ILE:HB	1:D:224:MET:HB3	2.02	0.41
1:A:2411:PHE:H	1:A:2412:PHE:HD2	1.68	0.40
1:A:2621:PHE:CA	1:A:2624:LYS:HG2	2.48	0.40
1:A:2699:GLN:OE1	1:D:2699:GLN:HB3	2.18	0.40
1:C:269:ARG:CG	1:C:272:ALA:HB3	2.51	0.40
1:C:358:VAL:HA	1:C:359:PRO:HD3	1.91	0.40
1:C:2283:LEU:C	1:C:2283:LEU:CD2	2.88	0.40
1:B:107:ASN:HA	1:B:110:LEU:HB2	2.03	0.40
1:B:507:GLN:HA	1:B:510:MET:SD	2.61	0.40
1:B:2201:LEU:N	1:B:2662:TYR:CZ	2.78	0.40
1:B:2219:LEU:HD13	1:B:2219:LEU:HA	1.90	0.40
1:B:2412:PHE:O	1:B:2414:SER:C	2.58	0.40
1:B:2632:ILE:H	1:B:2632:ILE:HG13	1.39	0.40
1:B:2723:MET:SD	1:B:2727:ARG:NH1	2.85	0.40
1:D:107:ASN:HA	1:D:110:LEU:HB2	2.03	0.40
1:D:1086:HIS:C	1:D:1088:SER:N	2.74	0.40
1:D:2252:ASN:HA	1:D:2255:ASN:ND2	2.35	0.40
1:D:2286:LEU:CA	1:D:2289:LEU:HD11	2.50	0.40
1:D:2409:HIS:HD1	1:D:2409:HIS:C	2.24	0.40
1:D:2577:VAL:O	1:D:2577:VAL:CG1	2.69	0.40
1:D:2738:HIS:O	1:D:2738:HIS:CG	2.70	0.40
1:A:2573:PHE:CD1	1:A:2577:VAL:HG23	2.56	0.40
1:C:162:TYR:CZ	1:C:187:VAL:HG22	2.56	0.40
1:C:885:LEU:O	1:C:888:THR:C	2.55	0.40
1:C:1116:LYS:O	1:C:1118:ASP:N	2.54	0.40
1:C:2430:VAL:HG12	1:C:2593:PHE:CZ	2.56	0.40
1:C:2554:ARG:HH21	1:C:2556:PRO:HD3	1.85	0.40
1:C:2573:PHE:CD1	1:C:2577:VAL:HG23	2.56	0.40
1:C:2582:LEU:HA	1:C:2582:LEU:HD23	1.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2706:MET:O	1:B:2707:LYS:NZ	2.53	0.40
1:B:514:ASN:O	1:B:516:LEU:N	2.51	0.40
1:B:2430:VAL:HG12	1:B:2593:PHE:CZ	2.56	0.40
1:B:2524:LYS:HD3	1:B:2524:LYS:HA	1.78	0.40
1:B:2713:SER:HA	1:B:2716:LEU:CD2	2.44	0.40
1:B:2738:HIS:O	1:B:2739:PRO:C	2.48	0.40
1:D:108:ARG:O	1:D:108:ARG:CZ	2.69	0.40
1:D:127:LYS:O	1:D:441:ARG:HG2	2.22	0.40
1:D:477:LEU:CD2	1:D:556:CYS:HB3	2.51	0.40
1:D:2243:PHE:HE2	1:D:2638:MET:CB	2.01	0.40
1:D:2353:THR:HA	1:D:2356:LEU:HD23	2.03	0.40
1:D:2558:LYS:HD3	1:D:2558:LYS:HA	1.77	0.40
1:A:108:ARG:O	1:A:108:ARG:CZ	2.69	0.40
1:A:449:ALA:O	1:A:453:LEU:N	2.30	0.40
1:A:1209:GLY:C	1:A:1259:ILE:CA	2.90	0.40
1:A:2279:ILE:HD13	1:A:2279:ILE:HA	1.71	0.40
1:A:2407:PHE:HD1	1:A:2408:VAL:HG22	1.86	0.40
1:A:2537:THR:OG1	1:A:2538:VAL:N	2.55	0.40
1:A:2639:TRP:CE3	1:A:2642:LEU:HB2	2.56	0.40
1:A:2647:LEU:O	1:A:2650:VAL:CG2	2.69	0.40
1:C:194:HIS:N	1:C:210:ASN:O	2.36	0.40
1:C:840:VAL:O	1:C:844:LEU:CA	2.69	0.40
1:C:2160:ALA:O	1:C:2164:ALA:N	2.53	0.40
1:C:2406:LEU:C	1:C:2406:LEU:HD23	2.41	0.40
1:C:2419:ASP:HA	1:C:2422:TYR:HB3	2.03	0.40
1:C:2623:ASN:OD1	1:B:2677:ARG:CD	2.56	0.40
1:C:2639:TRP:CE3	1:C:2642:LEU:HB2	2.56	0.40
1:B:91:LYS:HA	1:B:94:HIS:CD2	2.56	0.40
1:B:486:GLY:CA	1:B:510:MET:HE3	2.43	0.40
1:D:299:TRP:CZ2	1:D:380:SER:CB	2.99	0.40
1:D:516:LEU:HB2	1:D:517:LYS:HE2	2.03	0.40
1:D:562:HIS:ND1	1:D:562:HIS:C	2.72	0.40
1:D:886:ARG:C	1:D:889:LYS:N	2.75	0.40
1:D:2288:ASN:O	1:D:2289:LEU:C	2.57	0.40
1:D:2559:GLU:O	1:D:2562:LEU:HB2	2.20	0.40
1:A:602:ASN:CA	1:A:606:LEU:H	2.34	0.40
1:A:2353:THR:HA	1:A:2356:LEU:HD23	2.03	0.40
1:A:2406:LEU:C	1:A:2406:LEU:HD23	2.41	0.40
1:C:60:LEU:HD13	1:C:60:LEU:HA	1.97	0.40
1:C:256:HIS:NE2	1:C:409:GLU:OE1	2.55	0.40
1:B:1032:HIS:O	1:B:1036:GLN:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1380:GLU:CA	1:B:1423:TYR:O	2.69	0.40
1:B:2343:ARG:HB3	1:B:2346:PHE:HE2	1.87	0.40
1:B:2412:PHE:CD1	1:B:2415:LEU:HD12	2.57	0.40
1:B:2597:ARG:O	1:B:2600:LYS:N	2.50	0.40
1:D:64:ASN:CG	1:D:107:ASN:HD21	2.25	0.40
1:D:438:ALA:HA	1:D:441:ARG:NH2	2.36	0.40
1:D:523:LEU:C	1:D:523:LEU:CD2	2.85	0.40
1:D:2397:LEU:HD23	1:D:2400:LEU:HB2	2.04	0.40
1:A:1085:ARG:O	1:A:1088:SER:N	2.47	0.40
1:A:1116:LYS:O	1:A:1118:ASP:N	2.54	0.40
1:A:1634:GLU:O	1:A:1637:PHE:C	2.58	0.40
1:A:2400:LEU:HD23	1:A:2400:LEU:HA	1.69	0.40
1:A:2409:HIS:HD1	1:A:2409:HIS:C	2.24	0.40
1:A:2412:PHE:CD1	1:A:2415:LEU:HD12	2.57	0.40
1:A:2578:ILE:O	1:A:2582:LEU:HB2	2.21	0.40
1:A:2729:GLN:O	1:A:2730:LYS:C	2.60	0.40
1:C:2031:ALA:O	1:C:2035:GLN:N	2.44	0.40
1:C:2696:ARG:NH2	1:B:2696:ARG:NH2	2.68	0.40
1:B:73:TRP:HZ3	1:B:156:ASN:HD21	1.69	0.40
1:B:237:GLY:O	1:B:238:ASP:C	2.60	0.40
1:B:554:ARG:NH1	1:B:585:ILE:HD13	2.35	0.40
1:D:132:LEU:O	1:D:159:SER:OG	2.30	0.40
1:D:162:TYR:CZ	1:D:187:VAL:HG22	2.56	0.40
1:D:363:ASP:OD1	1:D:363:ASP:N	2.55	0.40
1:D:1032:HIS:O	1:D:1036:GLN:N	2.55	0.40
1:D:2256:TRP:CZ2	1:D:2377:GLY:N	2.89	0.40
1:D:2732:ARG:HD2	1:D:2733:ILE:HD13	2.03	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	2109/2739 (77%)	1793 (85%)	255 (12%)	61 (3%)	4	32
1	B	2109/2739 (77%)	1793 (85%)	255 (12%)	61 (3%)	4	32
1	C	2109/2739 (77%)	1792 (85%)	256 (12%)	61 (3%)	4	32
1	D	2109/2739 (77%)	1792 (85%)	256 (12%)	61 (3%)	4	32
All	All	8436/10956 (77%)	7170 (85%)	1022 (12%)	244 (3%)	7	32

All (244) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	271	SER
1	A	646	PRO
1	A	663	ASP
1	A	761	VAL
1	A	772	ASN
1	A	794	PRO
1	A	896	ASP
1	A	1098	LYS
1	A	1246	ALA
1	A	1316	VAL
1	A	1344	PHE
1	A	1385	CYS
1	A	1405	ASP
1	A	1441	ILE
1	A	1620	GLN
1	A	1653	ILE
1	A	1667	ASN
1	A	1852	LYS
1	A	1980	HIS
1	A	2063	ILE
1	A	2180	VAL
1	A	2351	GLN
1	A	2413	TYR
1	A	2433	SER
1	A	2650	VAL
1	A	2696	ARG
1	C	271	SER
1	C	646	PRO
1	C	663	ASP
1	C	761	VAL
1	C	772	ASN
1	C	794	PRO
1	C	896	ASP

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Mol	Chain	Res	Type
1	C	1098	LYS
1	C	1246	ALA
1	C	1316	VAL
1	C	1344	PHE
1	C	1385	CYS
1	C	1405	ASP
1	C	1441	ILE
1	C	1620	GLN
1	C	1653	ILE
1	C	1667	ASN
1	C	1852	LYS
1	C	1980	HIS
1	C	2063	ILE
1	C	2180	VAL
1	C	2351	GLN
1	C	2413	TYR
1	C	2433	SER
1	C	2650	VAL
1	C	2696	ARG
1	B	271	SER
1	B	646	PRO
1	B	663	ASP
1	B	761	VAL
1	B	772	ASN
1	B	794	PRO
1	B	896	ASP
1	B	1098	LYS
1	B	1246	ALA
1	B	1316	VAL
1	B	1344	PHE
1	B	1385	CYS
1	B	1405	ASP
1	B	1441	ILE
1	B	1620	GLN
1	B	1653	ILE
1	B	1667	ASN
1	B	1852	LYS
1	B	1980	HIS
1	B	2063	ILE
1	B	2180	VAL
1	B	2351	GLN
1	B	2413	TYR

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Mol	Chain	Res	Type
1	B	2433	SER
1	B	2650	VAL
1	B	2696	ARG
1	D	271	SER
1	D	646	PRO
1	D	663	ASP
1	D	761	VAL
1	D	772	ASN
1	D	794	PRO
1	D	896	ASP
1	D	1098	LYS
1	D	1246	ALA
1	D	1316	VAL
1	D	1344	PHE
1	D	1385	CYS
1	D	1405	ASP
1	D	1441	ILE
1	D	1620	GLN
1	D	1653	ILE
1	D	1667	ASN
1	D	1852	LYS
1	D	1980	HIS
1	D	2063	ILE
1	D	2180	VAL
1	D	2351	GLN
1	D	2413	TYR
1	D	2433	SER
1	D	2650	VAL
1	D	2696	ARG
1	A	515	ILE
1	A	547	ALA
1	A	637	LEU
1	A	825	SER
1	A	1684	THR
1	A	2021	LEU
1	A	2022	GLY
1	A	2105	ASP
1	C	515	ILE
1	C	547	ALA
1	C	637	LEU
1	C	825	SER
1	C	1684	THR

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Mol	Chain	Res	Type
1	C	2021	LEU
1	C	2022	GLY
1	C	2105	ASP
1	B	515	ILE
1	B	547	ALA
1	B	637	LEU
1	B	825	SER
1	B	1684	THR
1	B	2021	LEU
1	B	2022	GLY
1	B	2105	ASP
1	D	515	ILE
1	D	547	ALA
1	D	637	LEU
1	D	825	SER
1	D	1684	THR
1	D	2021	LEU
1	D	2022	GLY
1	D	2105	ASP
1	A	610	ILE
1	A	773	LEU
1	A	1278	MET
1	A	2192	HIS
1	A	2286	LEU
1	A	2412	PHE
1	A	2626	VAL
1	C	610	ILE
1	C	773	LEU
1	C	1278	MET
1	C	2192	HIS
1	C	2286	LEU
1	C	2412	PHE
1	C	2626	VAL
1	B	610	ILE
1	B	773	LEU
1	B	1278	MET
1	B	2192	HIS
1	B	2286	LEU
1	B	2412	PHE
1	B	2626	VAL
1	D	610	ILE
1	D	773	LEU

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Mol	Chain	Res	Type
1	D	1278	MET
1	D	2192	HIS
1	D	2286	LEU
1	D	2412	PHE
1	D	2626	VAL
1	A	639	VAL
1	A	1007	GLN
1	A	1101	GLN
1	A	1412	HIS
1	A	2047	PRO
1	A	2143	GLU
1	A	2182	GLY
1	A	2410	GLU
1	C	639	VAL
1	C	1007	GLN
1	C	1101	GLN
1	C	1412	HIS
1	C	2047	PRO
1	C	2143	GLU
1	C	2182	GLY
1	C	2410	GLU
1	B	639	VAL
1	B	1007	GLN
1	B	1101	GLN
1	B	1412	HIS
1	B	2047	PRO
1	B	2143	GLU
1	B	2182	GLY
1	B	2410	GLU
1	D	639	VAL
1	D	1007	GLN
1	D	1101	GLN
1	D	1412	HIS
1	D	2047	PRO
1	D	2143	GLU
1	D	2182	GLY
1	D	2410	GLU
1	A	84	THR
1	A	1306	VAL
1	A	1525	LEU
1	A	1991	GLN
1	A	2381	ARG

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Mol	Chain	Res	Type
1	A	2681	MET
1	C	1306	VAL
1	C	1525	LEU
1	C	1991	GLN
1	C	2381	ARG
1	C	2681	MET
1	B	84	THR
1	B	1306	VAL
1	B	1525	LEU
1	B	1991	GLN
1	B	2381	ARG
1	B	2681	MET
1	D	84	THR
1	D	1306	VAL
1	D	1525	LEU
1	D	1991	GLN
1	D	2381	ARG
1	D	2681	MET
1	A	2079	LYS
1	C	84	THR
1	C	2079	LYS
1	B	2079	LYS
1	D	2079	LYS
1	A	1100	VAL
1	C	1100	VAL
1	B	1100	VAL
1	D	1100	VAL
1	A	1962	VAL
1	A	2348	VAL
1	C	1962	VAL
1	C	2348	VAL
1	B	1962	VAL
1	B	2348	VAL
1	D	1962	VAL
1	D	2348	VAL
1	A	2062	GLY
1	A	2405	GLY
1	C	2062	GLY
1	C	2405	GLY
1	B	2062	GLY
1	B	2405	GLY
1	D	2062	GLY

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Mol	Chain	Res	Type
1	D	2405	GLY

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	857/2449 (35%)	711 (83%)	146 (17%)	2	13
1	B	857/2449 (35%)	712 (83%)	145 (17%)	2	14
1	C	857/2449 (35%)	712 (83%)	145 (17%)	2	14
1	D	857/2449 (35%)	710 (83%)	147 (17%)	2	12
All	All	3428/9796 (35%)	2845 (83%)	583 (17%)	5	13

All (583) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	74	LYS
1	A	77	LYS
1	A	78	PRO
1	A	81	ASN
1	A	85	ASP
1	A	88	LEU
1	A	89	LEU
1	A	90	ASN
1	A	92	LEU
1	A	94	HIS
1	A	97	ASP
1	A	99	GLU
1	A	102	GLN
1	A	105	THR
1	A	108	ARG
1	A	185	ASN
1	A	265	ARG
1	A	269	ARG
1	A	270	GLN
1	A	288	GLN

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Mol	Chain	Res	Type
1	A	300	ASN
1	A	403	ASN
1	A	442	ASP
1	A	443	LEU
1	A	501	LYS
1	A	509	LEU
1	A	515	ILE
1	A	516	LEU
1	A	517	LYS
1	A	520	PHE
1	A	523	LEU
1	A	526	PRO
1	A	527	PHE
1	A	546	HIS
1	A	549	PHE
1	A	553	CYS
1	A	554	ARG
1	A	562	HIS
1	A	572	GLU
1	A	580	PHE
1	A	581	MET
1	A	582	GLN
1	A	584	GLN
1	A	2184	GLU
1	A	2187	GLU
1	A	2198	ILE
1	A	2201	LEU
1	A	2203	ARG
1	A	2204	THR
1	A	2208	ILE
1	A	2221	LYS
1	A	2225	LEU
1	A	2240	ILE
1	A	2241	ASN
1	A	2243	PHE
1	A	2245	LEU
1	A	2248	GLU
1	A	2250	LEU
1	A	2251	PHE
1	A	2253	GLU
1	A	2254	MET
1	A	2267	TYR

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Mol	Chain	Res	Type
1	A	2269	CYS
1	A	2271	ARG
1	A	2275	PHE
1	A	2286	LEU
1	A	2289	LEU
1	A	2291	VAL
1	A	2341	ILE
1	A	2354	LEU
1	A	2356	LEU
1	A	2357	LEU
1	A	2360	PHE
1	A	2363	CYS
1	A	2366	ILE
1	A	2370	MET
1	A	2372	PHE
1	A	2376	CYS
1	A	2378	THR
1	A	2380	THR
1	A	2381	ARG
1	A	2388	LEU
1	A	2392	PHE
1	A	2393	LEU
1	A	2396	LEU
1	A	2397	LEU
1	A	2399	LEU
1	A	2401	ILE
1	A	2402	CYS
1	A	2404	MET
1	A	2406	LEU
1	A	2407	PHE
1	A	2408	VAL
1	A	2409	HIS
1	A	2415	LEU
1	A	2418	PHE
1	A	2421	VAL
1	A	2422	TYR
1	A	2423	ARG
1	A	2430	VAL
1	A	2437	ASN
1	A	2441	ILE
1	A	2447	LEU
1	A	2461	LEU

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Mol	Chain	Res	Type
1	A	2524	LYS
1	A	2531	LEU
1	A	2535	ILE
1	A	2541	HIS
1	A	2543	LEU
1	A	2554	ARG
1	A	2558	LYS
1	A	2566	ARG
1	A	2571	LEU
1	A	2576	MET
1	A	2581	VAL
1	A	2596	LEU
1	A	2608	LYS
1	A	2616	LEU
1	A	2618	ARG
1	A	2619	ASP
1	A	2624	LYS
1	A	2632	ILE
1	A	2639	TRP
1	A	2642	LEU
1	A	2646	VAL
1	A	2649	LYS
1	A	2651	LYS
1	A	2665	GLU
1	A	2667	ILE
1	A	2670	ARG
1	A	2679	ARG
1	A	2683	LEU
1	A	2712	LEU
1	A	2715	GLN
1	A	2716	LEU
1	A	2718	GLU
1	A	2719	LEU
1	A	2720	LYS
1	A	2722	GLN
1	A	2724	THR
1	A	2726	GLN
1	A	2727	ARG
1	A	2730	LYS
1	A	2732	ARG
1	A	2733	ILE
1	A	2738	HIS

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Mol	Chain	Res	Type
1	C	74	LYS
1	C	77	LYS
1	C	78	PRO
1	C	81	ASN
1	C	85	ASP
1	C	88	LEU
1	C	89	LEU
1	C	90	ASN
1	C	92	LEU
1	C	94	HIS
1	C	97	ASP
1	C	99	GLU
1	C	102	GLN
1	C	105	THR
1	C	108	ARG
1	C	185	ASN
1	C	265	ARG
1	C	269	ARG
1	C	270	GLN
1	C	288	GLN
1	C	300	ASN
1	C	403	ASN
1	C	442	ASP
1	C	443	LEU
1	C	501	LYS
1	C	509	LEU
1	C	515	ILE
1	C	516	LEU
1	C	517	LYS
1	C	520	PHE
1	C	523	LEU
1	C	526	PRO
1	C	527	PHE
1	C	546	HIS
1	C	549	PHE
1	C	553	CYS
1	C	554	ARG
1	C	562	HIS
1	C	572	GLU
1	C	580	PHE
1	C	581	MET
1	C	582	GLN

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Mol	Chain	Res	Type
1	C	584	GLN
1	C	2184	GLU
1	C	2187	GLU
1	C	2198	ILE
1	C	2201	LEU
1	C	2203	ARG
1	C	2204	THR
1	C	2208	ILE
1	C	2221	LYS
1	C	2225	LEU
1	C	2240	ILE
1	C	2241	ASN
1	C	2243	PHE
1	C	2245	LEU
1	C	2248	GLU
1	C	2250	LEU
1	C	2251	PHE
1	C	2253	GLU
1	C	2254	MET
1	C	2267	TYR
1	C	2269	CYS
1	C	2271	ARG
1	C	2275	PHE
1	C	2286	LEU
1	C	2289	LEU
1	C	2291	VAL
1	C	2341	ILE
1	C	2354	LEU
1	C	2356	LEU
1	C	2357	LEU
1	C	2360	PHE
1	C	2363	CYS
1	C	2366	ILE
1	C	2370	MET
1	C	2372	PHE
1	C	2376	CYS
1	C	2378	THR
1	C	2380	THR
1	C	2381	ARG
1	C	2388	LEU
1	C	2392	PHE
1	C	2393	LEU

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Mol	Chain	Res	Type
1	C	2396	LEU
1	C	2397	LEU
1	C	2399	LEU
1	C	2401	ILE
1	C	2402	CYS
1	C	2404	MET
1	C	2406	LEU
1	C	2407	PHE
1	C	2408	VAL
1	C	2409	HIS
1	C	2415	LEU
1	C	2418	PHE
1	C	2421	VAL
1	C	2422	TYR
1	C	2423	ARG
1	C	2430	VAL
1	C	2437	ASN
1	C	2441	ILE
1	C	2447	LEU
1	C	2461	LEU
1	C	2524	LYS
1	C	2531	LEU
1	C	2541	HIS
1	C	2543	LEU
1	C	2554	ARG
1	C	2558	LYS
1	C	2566	ARG
1	C	2571	LEU
1	C	2576	MET
1	C	2581	VAL
1	C	2596	LEU
1	C	2608	LYS
1	C	2616	LEU
1	C	2618	ARG
1	C	2619	ASP
1	C	2624	LYS
1	C	2632	ILE
1	C	2639	TRP
1	C	2642	LEU
1	C	2646	VAL
1	C	2649	LYS
1	C	2651	LYS

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Mol	Chain	Res	Type
1	C	2665	GLU
1	C	2667	ILE
1	C	2670	ARG
1	C	2679	ARG
1	C	2683	LEU
1	C	2712	LEU
1	C	2715	GLN
1	C	2716	LEU
1	C	2718	GLU
1	C	2719	LEU
1	C	2720	LYS
1	C	2722	GLN
1	C	2724	THR
1	C	2726	GLN
1	C	2727	ARG
1	C	2730	LYS
1	C	2732	ARG
1	C	2733	ILE
1	C	2738	HIS
1	B	74	LYS
1	B	77	LYS
1	B	78	PRO
1	B	81	ASN
1	B	85	ASP
1	B	88	LEU
1	B	89	LEU
1	B	90	ASN
1	B	92	LEU
1	B	94	HIS
1	B	97	ASP
1	B	99	GLU
1	B	102	GLN
1	B	105	THR
1	B	108	ARG
1	B	185	ASN
1	B	265	ARG
1	B	269	ARG
1	B	270	GLN
1	B	288	GLN
1	B	300	ASN
1	B	403	ASN
1	B	442	ASP

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Mol	Chain	Res	Type
1	B	443	LEU
1	B	501	LYS
1	B	509	LEU
1	B	515	ILE
1	B	516	LEU
1	B	517	LYS
1	B	520	PHE
1	B	523	LEU
1	B	526	PRO
1	B	527	PHE
1	B	546	HIS
1	B	549	PHE
1	B	553	CYS
1	B	554	ARG
1	B	562	HIS
1	B	572	GLU
1	B	580	PHE
1	B	581	MET
1	B	582	GLN
1	B	584	GLN
1	B	2184	GLU
1	B	2187	GLU
1	B	2198	ILE
1	B	2201	LEU
1	B	2203	ARG
1	B	2204	THR
1	B	2208	ILE
1	B	2221	LYS
1	B	2225	LEU
1	B	2240	ILE
1	B	2241	ASN
1	B	2243	PHE
1	B	2245	LEU
1	B	2248	GLU
1	B	2250	LEU
1	B	2251	PHE
1	B	2253	GLU
1	B	2254	MET
1	B	2267	TYR
1	B	2269	CYS
1	B	2271	ARG
1	B	2275	PHE

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Mol	Chain	Res	Type
1	B	2286	LEU
1	B	2289	LEU
1	B	2291	VAL
1	B	2341	ILE
1	B	2354	LEU
1	B	2356	LEU
1	B	2357	LEU
1	B	2360	PHE
1	B	2363	CYS
1	B	2366	ILE
1	B	2370	MET
1	B	2372	PHE
1	B	2376	CYS
1	B	2378	THR
1	B	2380	THR
1	B	2381	ARG
1	B	2388	LEU
1	B	2392	PHE
1	B	2393	LEU
1	B	2396	LEU
1	B	2397	LEU
1	B	2399	LEU
1	B	2401	ILE
1	B	2402	CYS
1	B	2404	MET
1	B	2406	LEU
1	B	2407	PHE
1	B	2408	VAL
1	B	2409	HIS
1	B	2415	LEU
1	B	2418	PHE
1	B	2421	VAL
1	B	2422	TYR
1	B	2423	ARG
1	B	2430	VAL
1	B	2437	ASN
1	B	2441	ILE
1	B	2447	LEU
1	B	2461	LEU
1	B	2524	LYS
1	B	2531	LEU
1	B	2541	HIS

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Mol	Chain	Res	Type
1	B	2543	LEU
1	B	2554	ARG
1	B	2558	LYS
1	B	2566	ARG
1	B	2571	LEU
1	B	2576	MET
1	B	2581	VAL
1	B	2596	LEU
1	B	2608	LYS
1	B	2616	LEU
1	B	2618	ARG
1	B	2619	ASP
1	B	2624	LYS
1	B	2632	ILE
1	B	2639	TRP
1	B	2642	LEU
1	B	2646	VAL
1	B	2649	LYS
1	B	2651	LYS
1	B	2665	GLU
1	B	2667	ILE
1	B	2670	ARG
1	B	2679	ARG
1	B	2683	LEU
1	B	2712	LEU
1	B	2715	GLN
1	B	2716	LEU
1	B	2718	GLU
1	B	2719	LEU
1	B	2720	LYS
1	B	2722	GLN
1	B	2724	THR
1	B	2726	GLN
1	B	2727	ARG
1	B	2730	LYS
1	B	2732	ARG
1	B	2733	ILE
1	B	2738	HIS
1	D	74	LYS
1	D	77	LYS
1	D	78	PRO
1	D	81	ASN

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Mol	Chain	Res	Type
1	D	85	ASP
1	D	88	LEU
1	D	89	LEU
1	D	90	ASN
1	D	92	LEU
1	D	94	HIS
1	D	97	ASP
1	D	99	GLU
1	D	102	GLN
1	D	105	THR
1	D	108	ARG
1	D	185	ASN
1	D	265	ARG
1	D	269	ARG
1	D	270	GLN
1	D	288	GLN
1	D	300	ASN
1	D	403	ASN
1	D	442	ASP
1	D	443	LEU
1	D	501	LYS
1	D	509	LEU
1	D	515	ILE
1	D	516	LEU
1	D	517	LYS
1	D	520	PHE
1	D	523	LEU
1	D	526	PRO
1	D	527	PHE
1	D	546	HIS
1	D	549	PHE
1	D	553	CYS
1	D	554	ARG
1	D	562	HIS
1	D	572	GLU
1	D	580	PHE
1	D	581	MET
1	D	582	GLN
1	D	584	GLN
1	D	2184	GLU
1	D	2187	GLU
1	D	2198	ILE

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Mol	Chain	Res	Type
1	D	2201	LEU
1	D	2203	ARG
1	D	2204	THR
1	D	2208	ILE
1	D	2221	LYS
1	D	2225	LEU
1	D	2240	ILE
1	D	2241	ASN
1	D	2243	PHE
1	D	2245	LEU
1	D	2248	GLU
1	D	2250	LEU
1	D	2251	PHE
1	D	2253	GLU
1	D	2254	MET
1	D	2267	TYR
1	D	2269	CYS
1	D	2271	ARG
1	D	2275	PHE
1	D	2279	ILE
1	D	2286	LEU
1	D	2289	LEU
1	D	2291	VAL
1	D	2341	ILE
1	D	2354	LEU
1	D	2356	LEU
1	D	2357	LEU
1	D	2360	PHE
1	D	2363	CYS
1	D	2366	ILE
1	D	2370	MET
1	D	2372	PHE
1	D	2376	CYS
1	D	2378	THR
1	D	2380	THR
1	D	2381	ARG
1	D	2388	LEU
1	D	2392	PHE
1	D	2393	LEU
1	D	2396	LEU
1	D	2397	LEU
1	D	2399	LEU

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Mol	Chain	Res	Type
1	D	2401	ILE
1	D	2402	CYS
1	D	2404	MET
1	D	2406	LEU
1	D	2407	PHE
1	D	2408	VAL
1	D	2409	HIS
1	D	2415	LEU
1	D	2418	PHE
1	D	2421	VAL
1	D	2422	TYR
1	D	2423	ARG
1	D	2430	VAL
1	D	2437	ASN
1	D	2441	ILE
1	D	2447	LEU
1	D	2454	LEU
1	D	2461	LEU
1	D	2524	LYS
1	D	2531	LEU
1	D	2541	HIS
1	D	2543	LEU
1	D	2554	ARG
1	D	2558	LYS
1	D	2566	ARG
1	D	2571	LEU
1	D	2576	MET
1	D	2581	VAL
1	D	2596	LEU
1	D	2608	LYS
1	D	2616	LEU
1	D	2618	ARG
1	D	2619	ASP
1	D	2624	LYS
1	D	2632	ILE
1	D	2639	TRP
1	D	2642	LEU
1	D	2646	VAL
1	D	2649	LYS
1	D	2651	LYS
1	D	2665	GLU
1	D	2667	ILE

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Mol	Chain	Res	Type
1	D	2670	ARG
1	D	2679	ARG
1	D	2683	LEU
1	D	2712	LEU
1	D	2715	GLN
1	D	2716	LEU
1	D	2718	GLU
1	D	2719	LEU
1	D	2720	LYS
1	D	2722	GLN
1	D	2724	THR
1	D	2726	GLN
1	D	2727	ARG
1	D	2730	LYS
1	D	2732	ARG
1	D	2733	ILE
1	D	2738	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (110) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	69	GLN
1	A	81	ASN
1	A	102	GLN
1	A	107	ASN
1	A	135	ASN
1	A	156	ASN
1	A	185	ASN
1	A	194	HIS
1	A	198	HIS
1	A	203	ASN
1	A	261	HIS
1	A	270	GLN
1	A	288	GLN
1	A	312	HIS
1	A	403	ASN
1	A	565	GLN
1	A	571	GLN
1	A	582	GLN
1	A	2255	ASN
1	A	2361	ASN
1	A	2364	ASN

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Mol	Chain	Res	Type
1	A	2437	ASN
1	A	2637	ASN
1	A	2640	HIS
1	A	2711	ASN
1	A	2722	GLN
1	C	69	GLN
1	C	81	ASN
1	C	102	GLN
1	C	107	ASN
1	C	135	ASN
1	C	156	ASN
1	C	185	ASN
1	C	194	HIS
1	C	198	HIS
1	C	203	ASN
1	C	261	HIS
1	C	270	GLN
1	C	288	GLN
1	C	312	HIS
1	C	403	ASN
1	C	565	GLN
1	C	571	GLN
1	C	582	GLN
1	C	584	GLN
1	C	2255	ASN
1	C	2361	ASN
1	C	2364	ASN
1	C	2437	ASN
1	C	2637	ASN
1	C	2640	HIS
1	C	2711	ASN
1	C	2722	GLN
1	B	69	GLN
1	B	81	ASN
1	B	102	GLN
1	B	107	ASN
1	B	135	ASN
1	B	156	ASN
1	B	185	ASN
1	B	194	HIS
1	B	198	HIS
1	B	203	ASN

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Mol	Chain	Res	Type
1	B	261	HIS
1	B	270	GLN
1	B	288	GLN
1	B	312	HIS
1	B	403	ASN
1	B	565	GLN
1	B	571	GLN
1	B	582	GLN
1	B	584	GLN
1	B	2255	ASN
1	B	2361	ASN
1	B	2364	ASN
1	B	2437	ASN
1	B	2637	ASN
1	B	2640	HIS
1	B	2711	ASN
1	B	2715	GLN
1	B	2722	GLN
1	D	69	GLN
1	D	81	ASN
1	D	102	GLN
1	D	107	ASN
1	D	135	ASN
1	D	156	ASN
1	D	185	ASN
1	D	194	HIS
1	D	198	HIS
1	D	203	ASN
1	D	261	HIS
1	D	270	GLN
1	D	288	GLN
1	D	312	HIS
1	D	403	ASN
1	D	565	GLN
1	D	571	GLN
1	D	582	GLN
1	D	584	GLN
1	D	2255	ASN
1	D	2272	ASN
1	D	2361	ASN
1	D	2364	ASN
1	D	2437	ASN

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Mol	Chain	Res	Type
1	D	2637	ASN
1	D	2640	HIS
1	D	2711	ASN
1	D	2715	GLN
1	D	2722	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	JYP	B	2801	1	41,45,45	1.95	9 (21%)	53,70,70	1.40	4 (7%)
2	JYP	C	2801	1	41,45,45	1.95	9 (21%)	53,70,70	1.40	4 (7%)
2	JYP	A	2801	1	41,45,45	1.95	9 (21%)	53,70,70	1.40	4 (7%)
2	JYP	D	2801	1	41,45,45	1.95	9 (21%)	53,70,70	1.40	4 (7%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	JYP	B	2801	1	-	10/23/63/63	0/4/4/4
2	JYP	C	2801	1	-	10/23/63/63	0/4/4/4
2	JYP	A	2801	1	-	10/23/63/63	0/4/4/4
2	JYP	D	2801	1	-	10/23/63/63	0/4/4/4

All (36) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	2801	JYP	O1-C6	4.81	1.47	1.41
2	A	2801	JYP	O1-C6	4.75	1.47	1.41
2	B	2801	JYP	O1-C6	4.75	1.47	1.41
2	D	2801	JYP	O1-C6	4.74	1.47	1.41
2	D	2801	JYP	P3-O15	4.62	1.68	1.59
2	C	2801	JYP	P1-O6	4.61	1.68	1.59
2	D	2801	JYP	P1-O6	4.60	1.68	1.59
2	A	2801	JYP	P1-O6	4.59	1.68	1.59
2	C	2801	JYP	P3-O15	4.59	1.68	1.59
2	B	2801	JYP	P3-O15	4.58	1.68	1.59
2	A	2801	JYP	P3-O15	4.58	1.68	1.59
2	B	2801	JYP	P1-O6	4.57	1.67	1.59
2	D	2801	JYP	C3-N4	4.19	1.54	1.39
2	B	2801	JYP	C3-N4	4.19	1.54	1.39
2	A	2801	JYP	C3-N4	4.18	1.54	1.39
2	C	2801	JYP	C3-N4	4.17	1.54	1.39
2	D	2801	JYP	C4-N3	3.51	1.46	1.34
2	A	2801	JYP	C4-N3	3.50	1.46	1.34
2	B	2801	JYP	C4-N3	3.49	1.46	1.34
2	C	2801	JYP	C4-N3	3.47	1.46	1.34
2	D	2801	JYP	P2-O10	3.38	1.65	1.59
2	B	2801	JYP	P2-O10	3.35	1.65	1.59
2	A	2801	JYP	P2-O10	3.33	1.65	1.59
2	C	2801	JYP	P2-O10	3.33	1.65	1.59
2	A	2801	JYP	C8-C7	-3.32	1.46	1.53
2	C	2801	JYP	C8-C7	-3.32	1.46	1.53
2	B	2801	JYP	C8-C7	-3.30	1.46	1.53
2	D	2801	JYP	C8-C7	-3.29	1.46	1.53
2	B	2801	JYP	C1-N1	3.21	1.37	1.32
2	A	2801	JYP	C1-N1	3.21	1.37	1.32
2	D	2801	JYP	C1-N1	3.20	1.37	1.32
2	C	2801	JYP	C1-N1	3.19	1.37	1.32
2	C	2801	JYP	C5-N4	2.17	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2801	JYP	C5-N4	2.17	1.38	1.34
2	B	2801	JYP	C5-N4	2.16	1.38	1.34
2	D	2801	JYP	C5-N4	2.13	1.38	1.34

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	2801	JYP	N1-C1-N2	-5.49	120.09	128.68
2	B	2801	JYP	N1-C1-N2	-5.49	120.10	128.68
2	A	2801	JYP	N1-C1-N2	-5.49	120.10	128.68
2	C	2801	JYP	N1-C1-N2	-5.48	120.12	128.68
2	D	2801	JYP	C6-N5-C2	-4.98	117.89	126.64
2	B	2801	JYP	C6-N5-C2	-4.96	117.92	126.64
2	A	2801	JYP	C6-N5-C2	-4.95	117.94	126.64
2	C	2801	JYP	C6-N5-C2	-4.93	117.98	126.64
2	C	2801	JYP	C11-O3-C8	-3.41	109.53	117.96
2	B	2801	JYP	C11-O3-C8	-3.41	109.53	117.96
2	A	2801	JYP	C11-O3-C8	-3.39	109.56	117.96
2	D	2801	JYP	C11-O3-C8	-3.39	109.56	117.96
2	D	2801	JYP	C2-C3-N4	-3.12	106.15	109.40
2	A	2801	JYP	C2-C3-N4	-3.10	106.17	109.40
2	B	2801	JYP	C2-C3-N4	-3.09	106.18	109.40
2	C	2801	JYP	C2-C3-N4	-3.07	106.19	109.40

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2801	JYP	C8-C7-O15-P3
2	A	2801	JYP	C13-O10-P2-O13
2	C	2801	JYP	C8-C7-O15-P3
2	C	2801	JYP	C13-O10-P2-O13
2	B	2801	JYP	C8-C7-O15-P3
2	B	2801	JYP	C13-O10-P2-O13
2	D	2801	JYP	C8-C7-O15-P3
2	D	2801	JYP	C13-O10-P2-O13
2	A	2801	JYP	O4-C15-C16-O5
2	C	2801	JYP	O4-C15-C16-O5
2	B	2801	JYP	O4-C15-C16-O5
2	D	2801	JYP	O4-C15-C16-O5
2	A	2801	JYP	C14-C15-C16-O5
2	C	2801	JYP	C14-C15-C16-O5

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Mol	Chain	Res	Type	Atoms
2	B	2801	JYP	C14-C15-C16-O5
2	D	2801	JYP	C14-C15-C16-O5
2	A	2801	JYP	C12-C13-O10-P2
2	C	2801	JYP	C12-C13-O10-P2
2	B	2801	JYP	C12-C13-O10-P2
2	D	2801	JYP	C12-C13-O10-P2
2	A	2801	JYP	C14-C13-O10-P2
2	C	2801	JYP	C14-C13-O10-P2
2	B	2801	JYP	C14-C13-O10-P2
2	D	2801	JYP	C14-C13-O10-P2
2	A	2801	JYP	C14-O6-P1-O8
2	C	2801	JYP	C14-O6-P1-O8
2	B	2801	JYP	C14-O6-P1-O8
2	D	2801	JYP	C14-O6-P1-O8
2	A	2801	JYP	C14-O6-P1-O7
2	A	2801	JYP	C14-O6-P1-O9
2	A	2801	JYP	C7-O15-P3-O18
2	C	2801	JYP	C14-O6-P1-O7
2	C	2801	JYP	C14-O6-P1-O9
2	C	2801	JYP	C7-O15-P3-O18
2	B	2801	JYP	C14-O6-P1-O7
2	B	2801	JYP	C14-O6-P1-O9
2	B	2801	JYP	C7-O15-P3-O18
2	D	2801	JYP	C14-O6-P1-O7
2	D	2801	JYP	C14-O6-P1-O9
2	D	2801	JYP	C7-O15-P3-O18

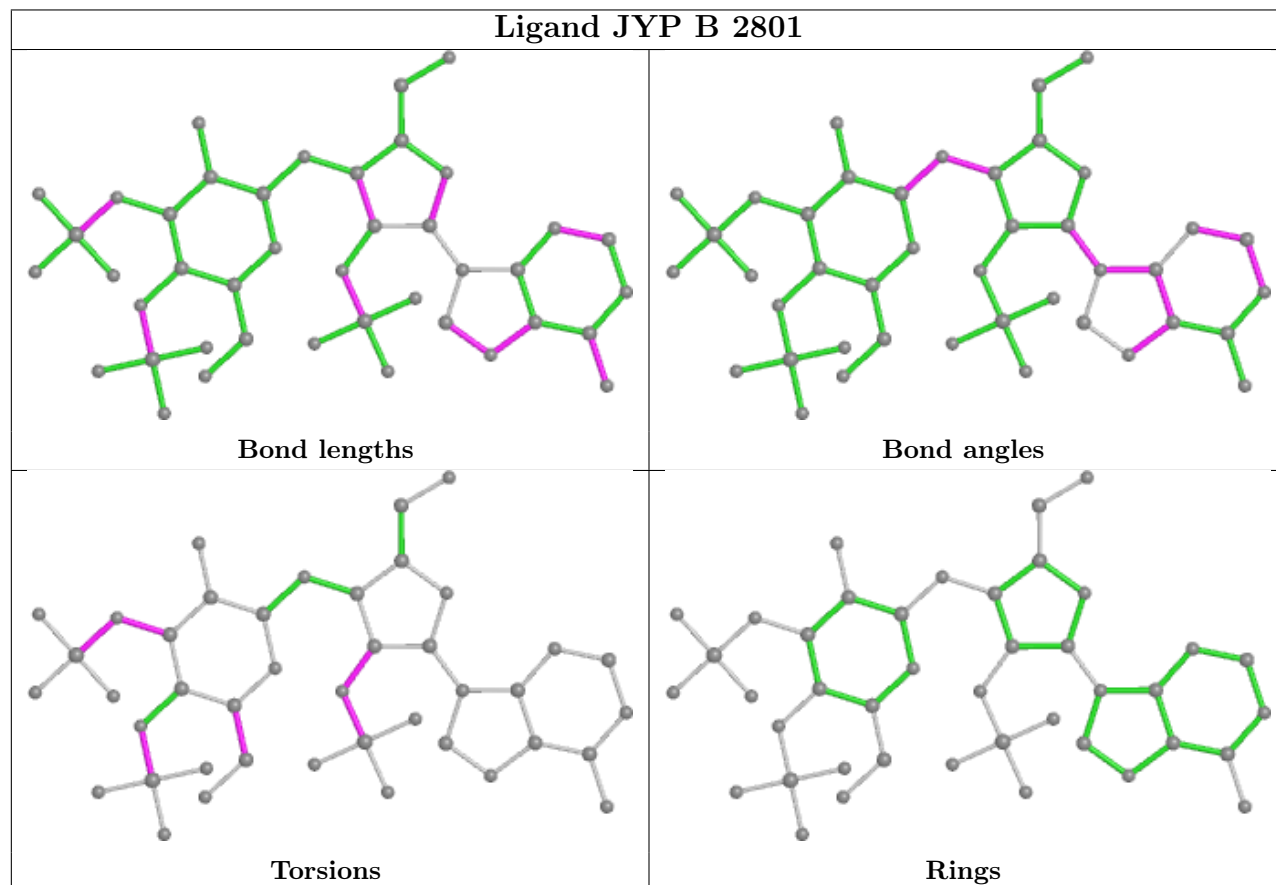
There are no ring outliers.

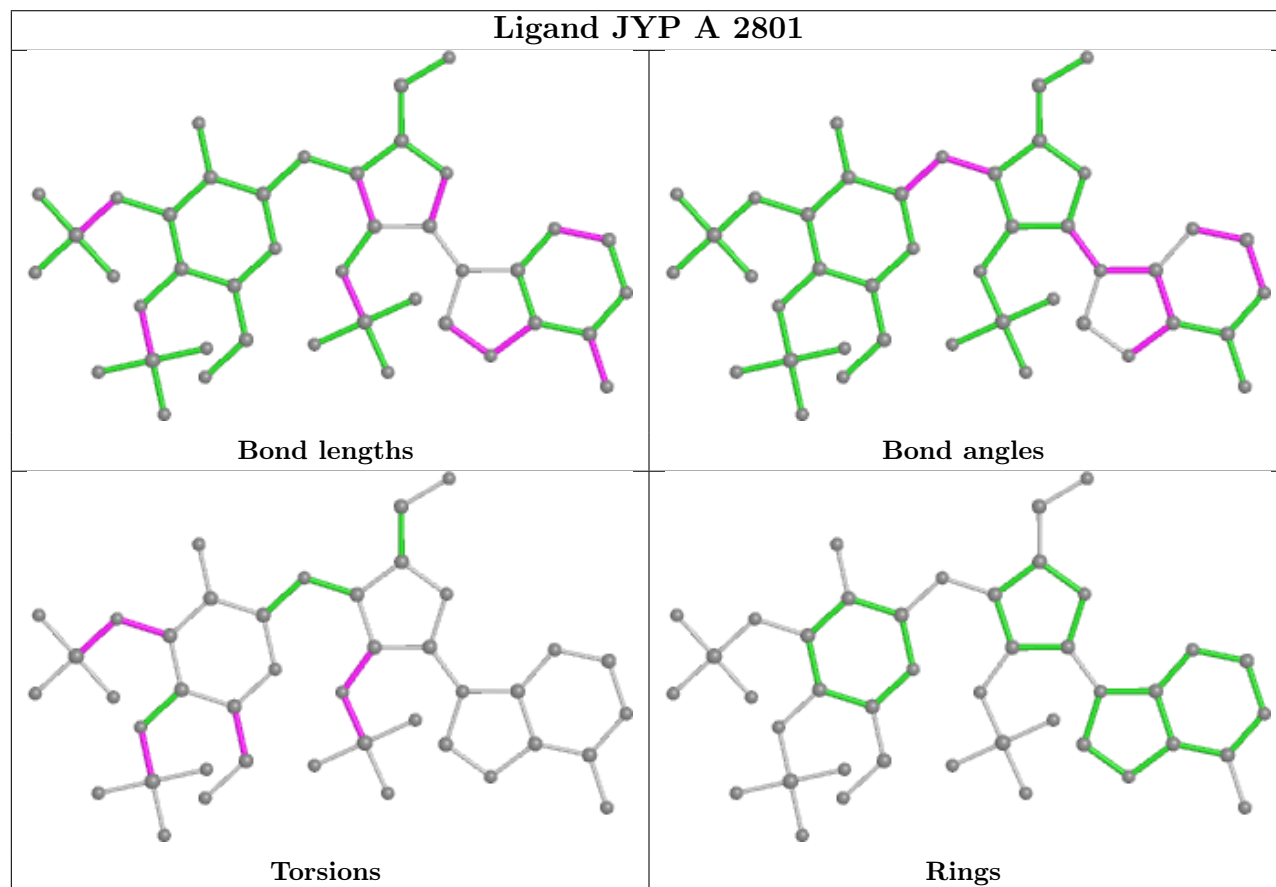
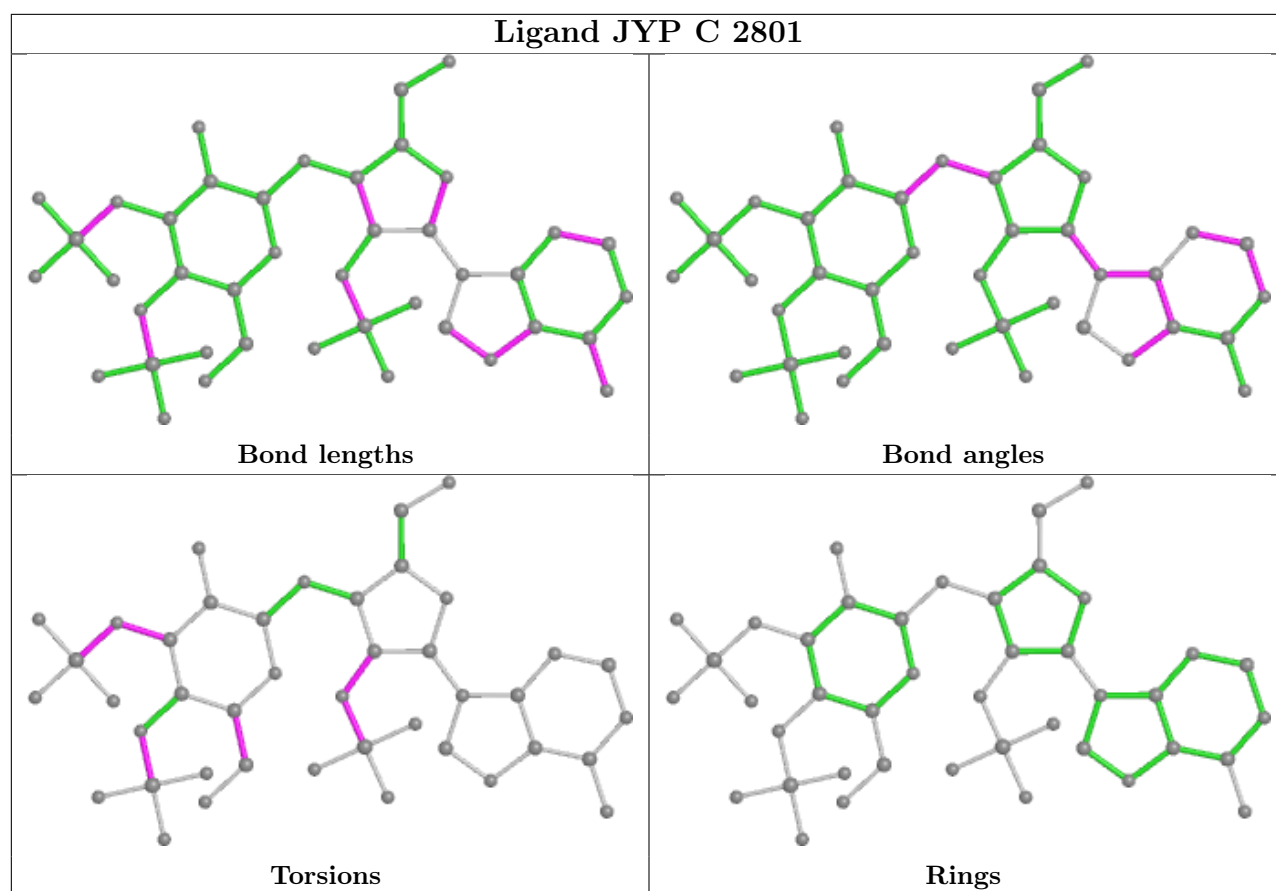
4 monomers are involved in 102 short contacts:

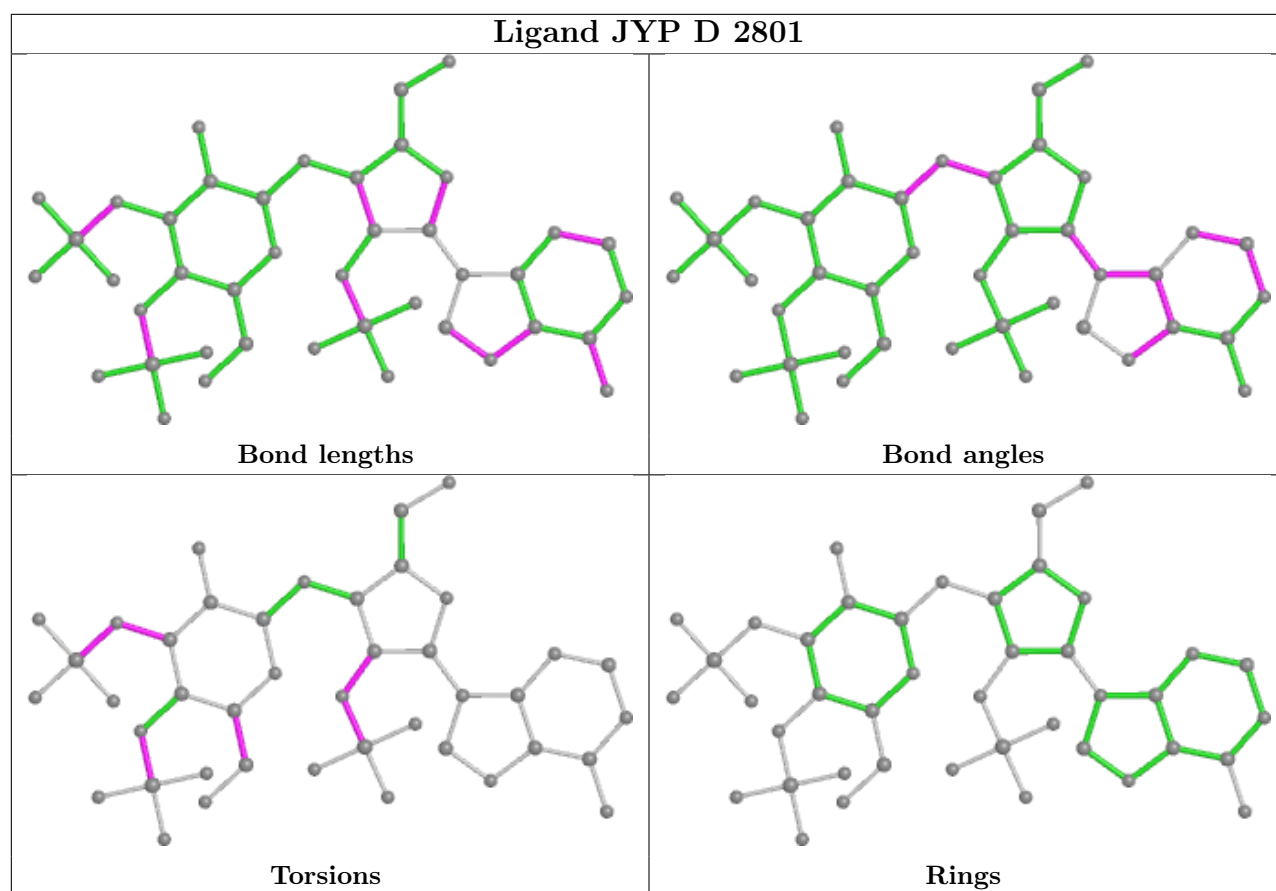
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2801	JYP	25	0
2	C	2801	JYP	25	0
2	A	2801	JYP	26	0
2	D	2801	JYP	26	0

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.

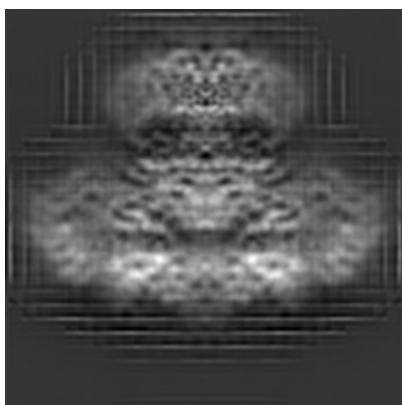
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9243. These allow visual inspection of the internal detail of the map and identification of artifacts.

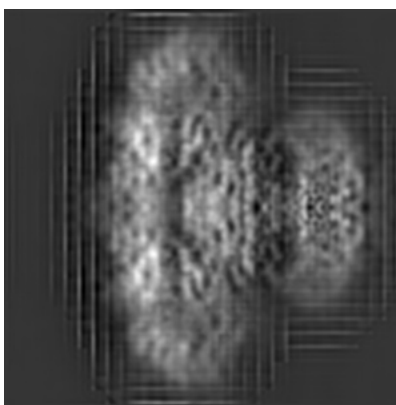
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

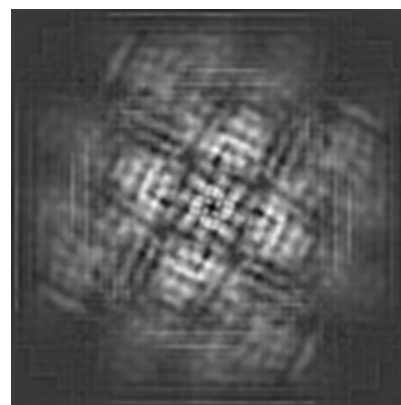
6.1.1 Primary map



X



Y

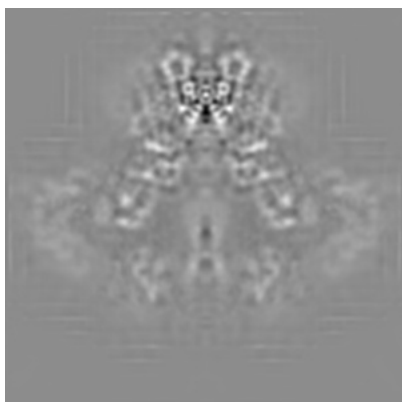


Z

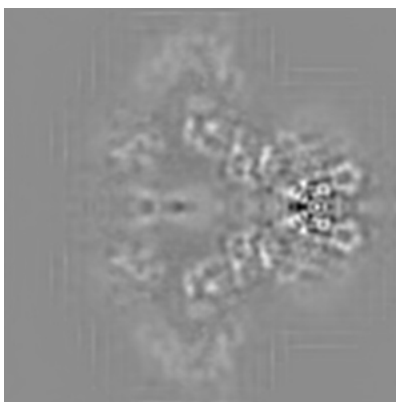
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

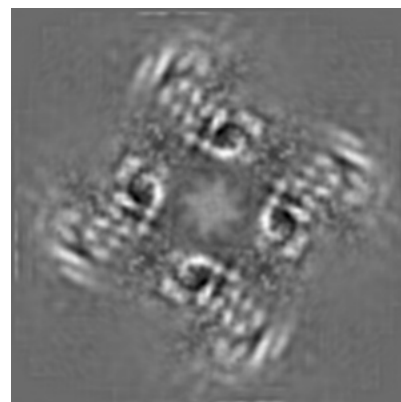
6.2.1 Primary map



X Index: 100



Y Index: 100

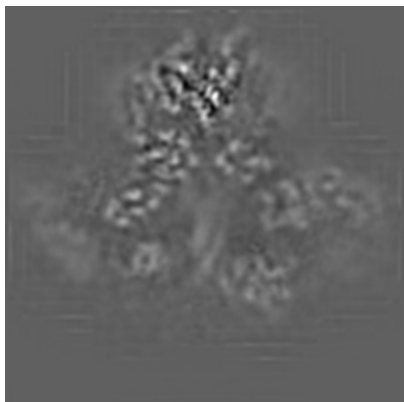


Z Index: 100

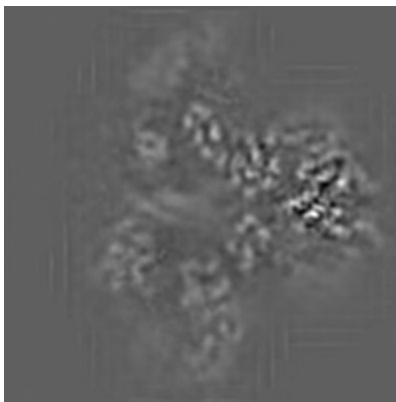
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

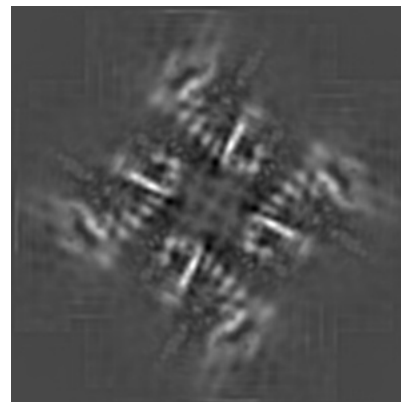
6.3.1 Primary map



X Index: 94



Y Index: 94

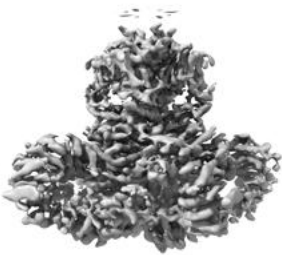


Z Index: 109

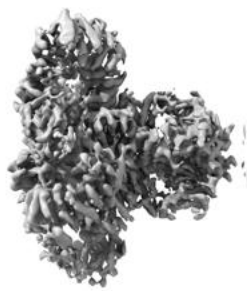
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.75. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

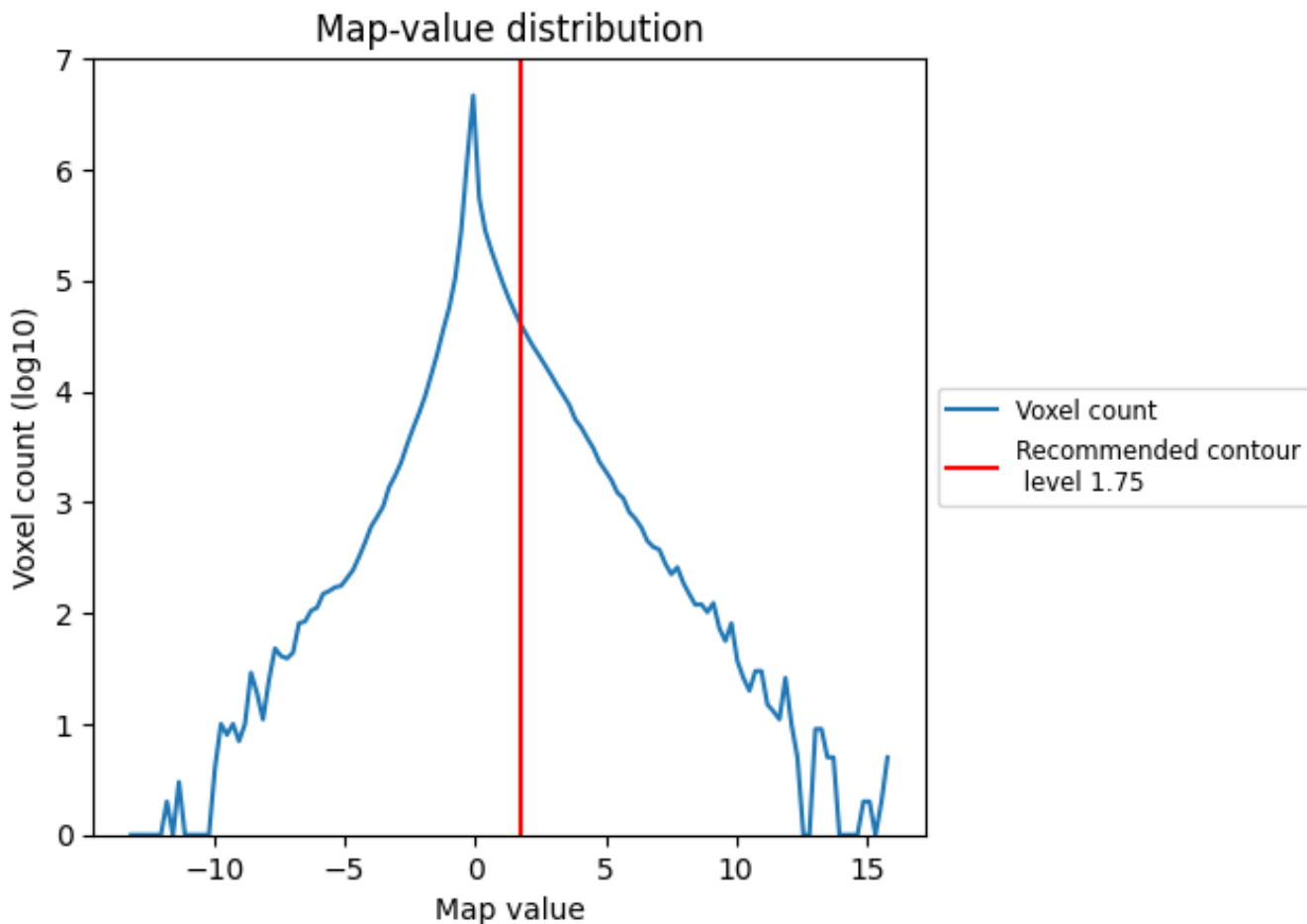
6.5 Mask visualisation

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

7 Map analysis [i](#)

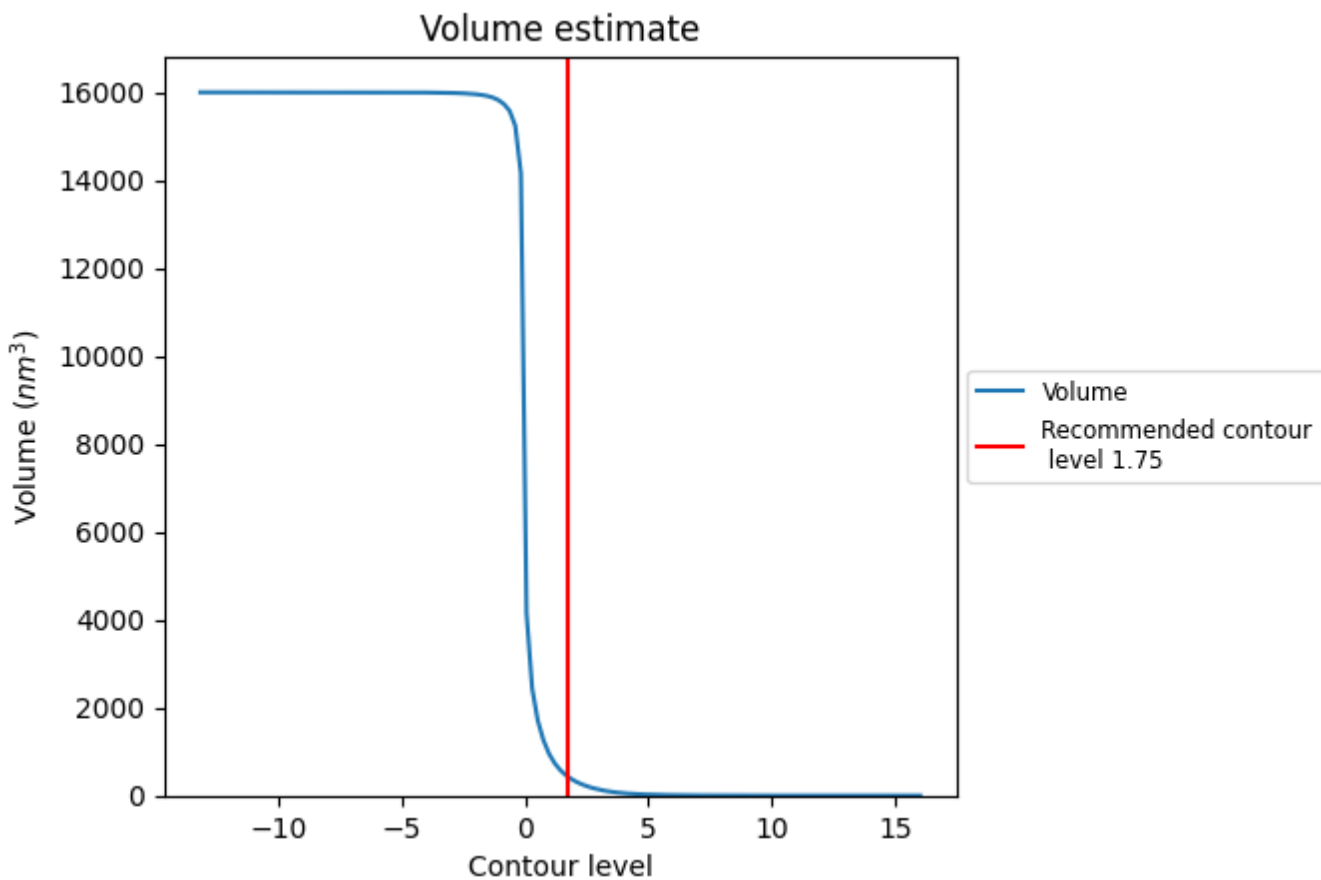
This section contains the results of statistical analysis of the map.

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.

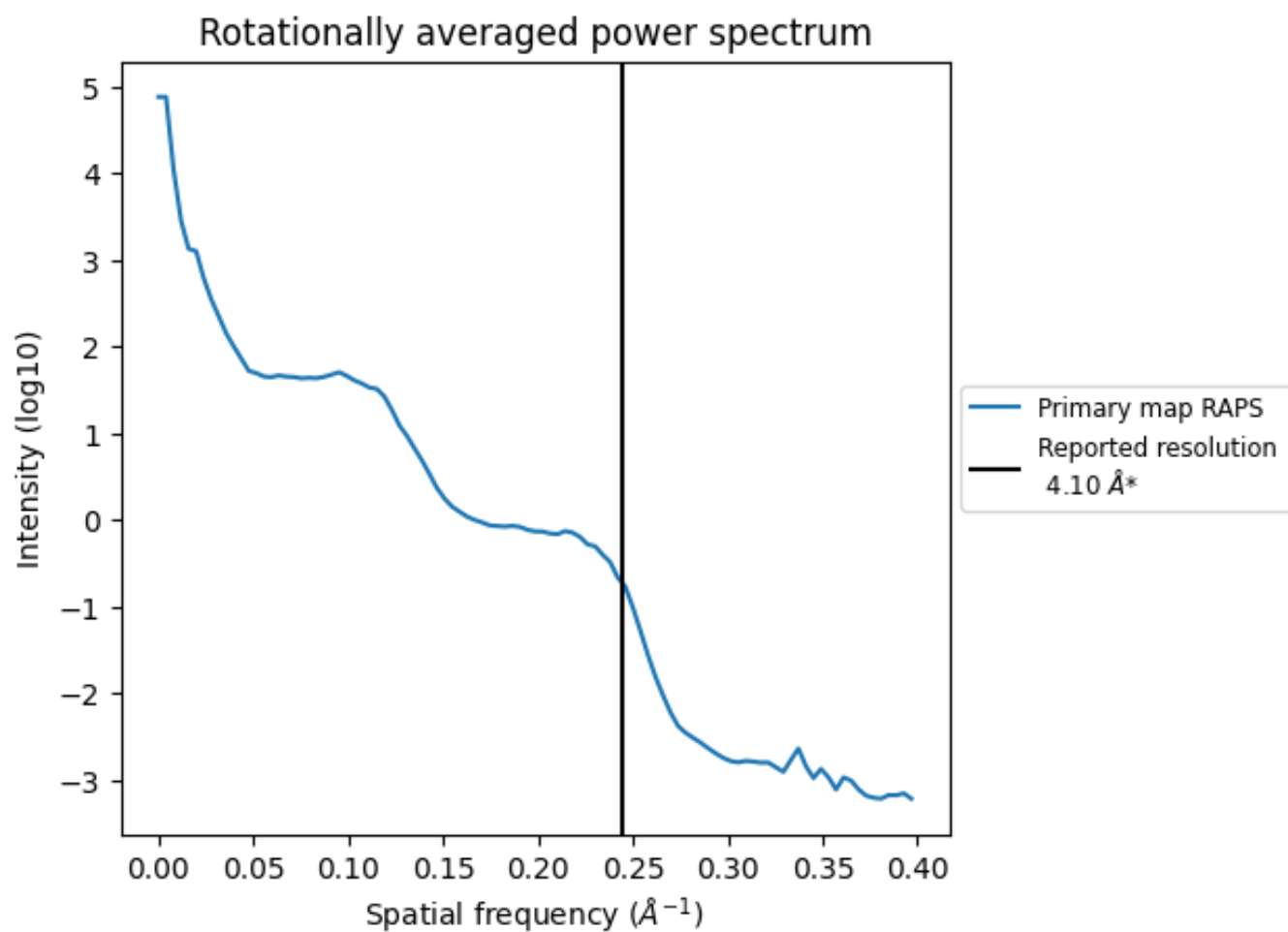
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 423 nm³; this corresponds to an approximate mass of 382 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.244 Å⁻¹

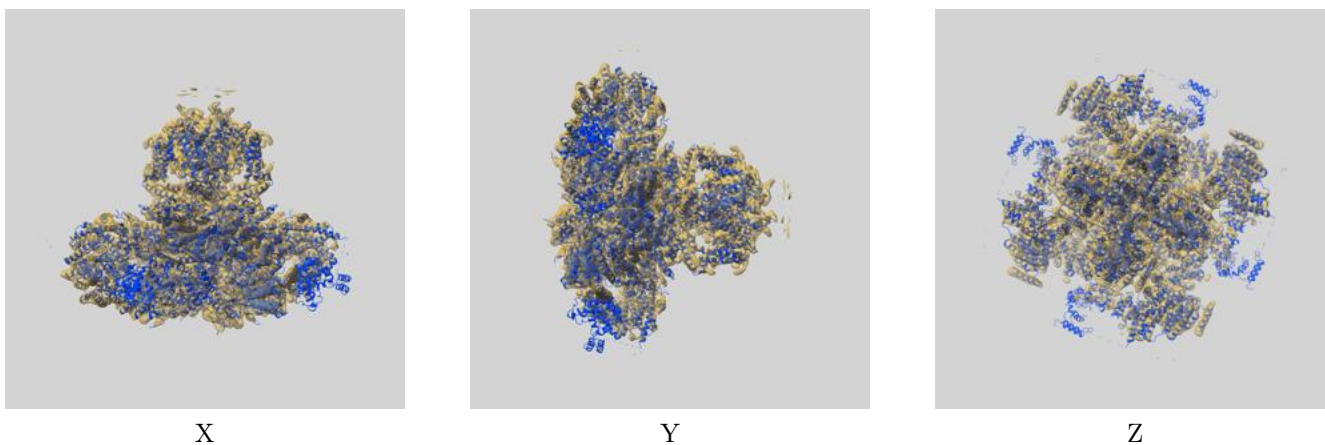
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

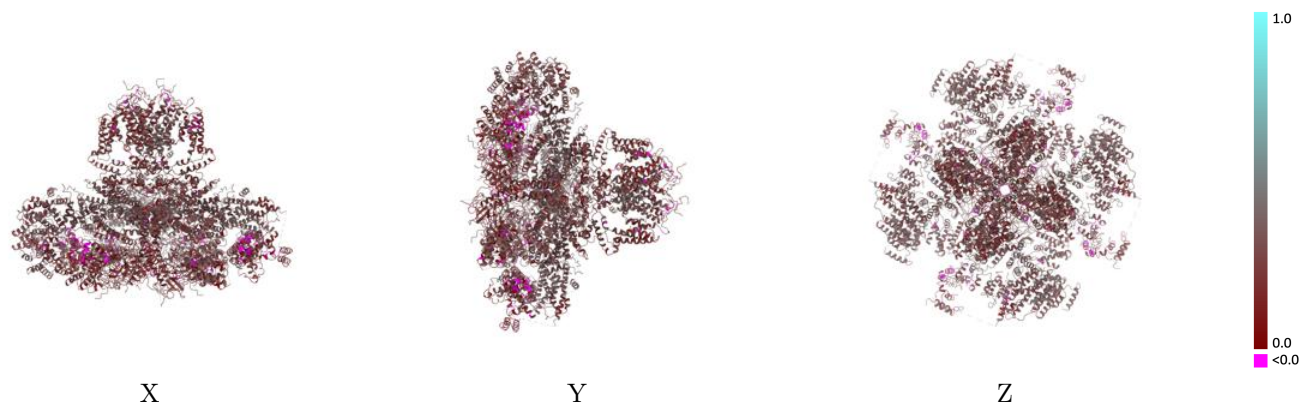
This section contains information regarding the fit between EMDB map EMD-9243 and PDB model 6MU1. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



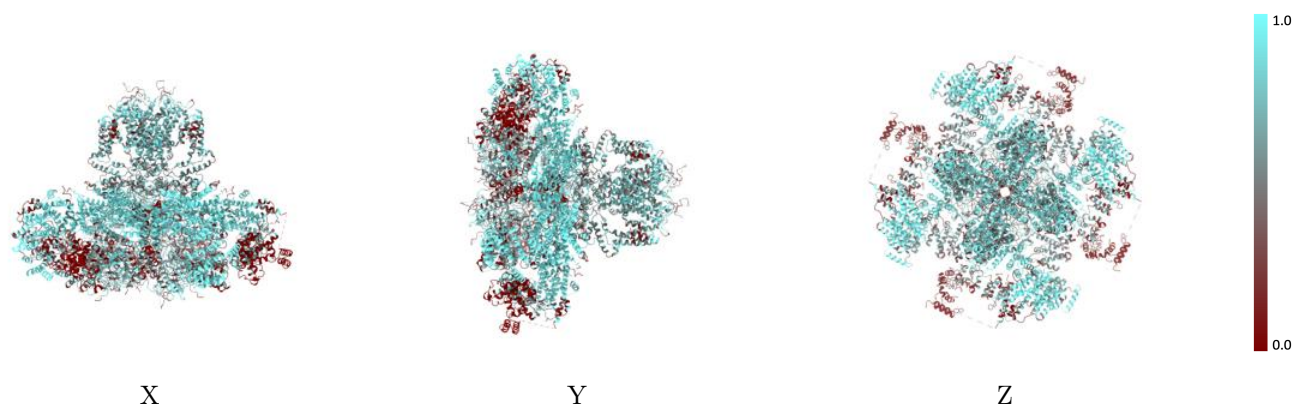
The images above show the 3D surface view of the map at the recommended contour level 1.75 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



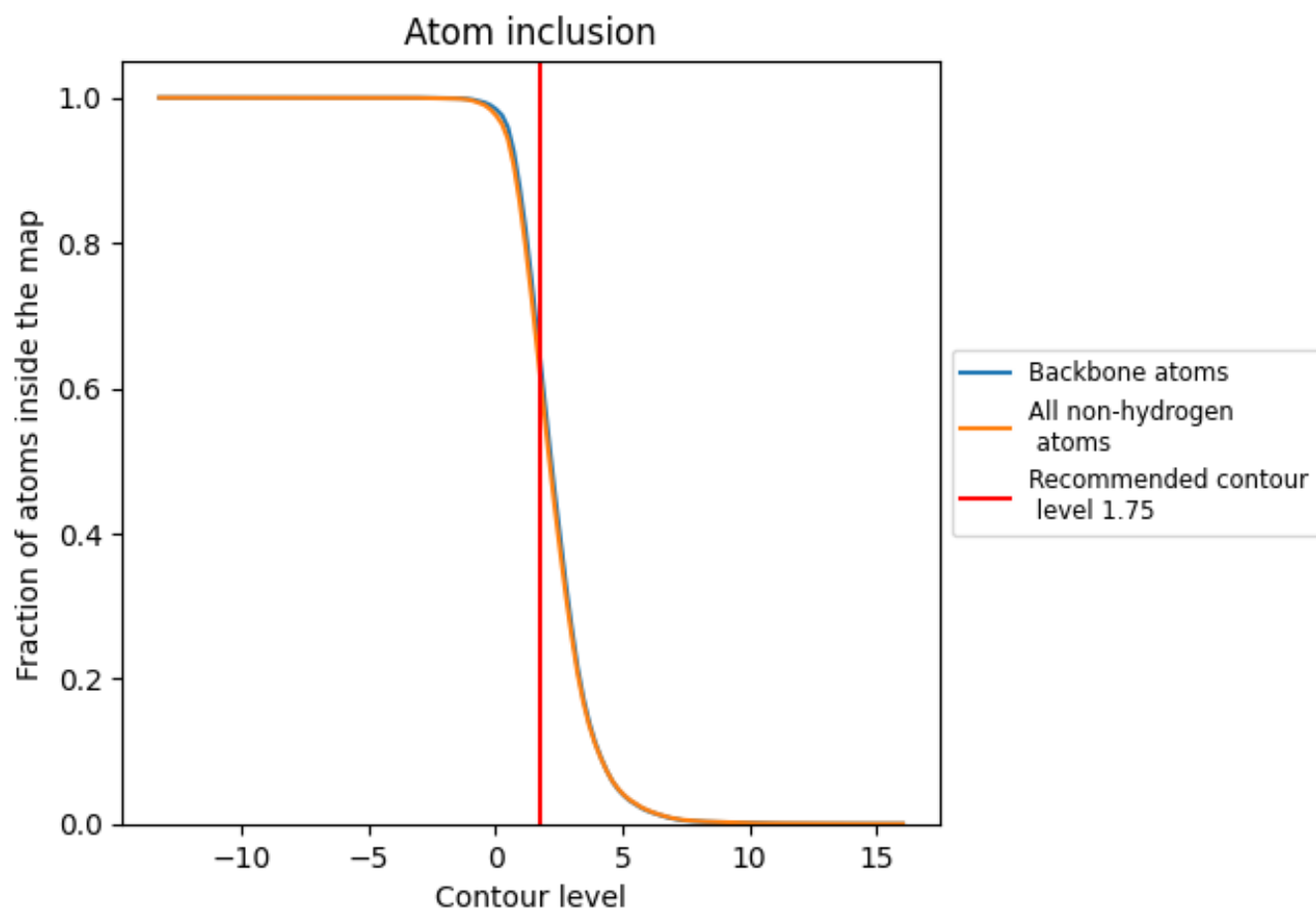
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.75).











9.4 Atom inclusion [i](#)



At the recommended contour level, 65% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (1.75) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6226	 0.2630
A	 0.6275	 0.2640
B	 0.6250	 0.2610
C	 0.6244	 0.2630
D	 0.6263	 0.2640

