



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 09:27 AM UTC

PDB ID : 8EZ9 / pdb_00008ez9
EMDB ID : EMD-28731
Title : Dimeric complex of DNA-PKcs
Authors : Chen, S.; He, Y.
Deposited on : 2022-10-31
Resolution : 5.67 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

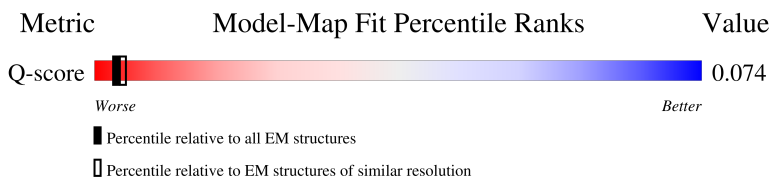
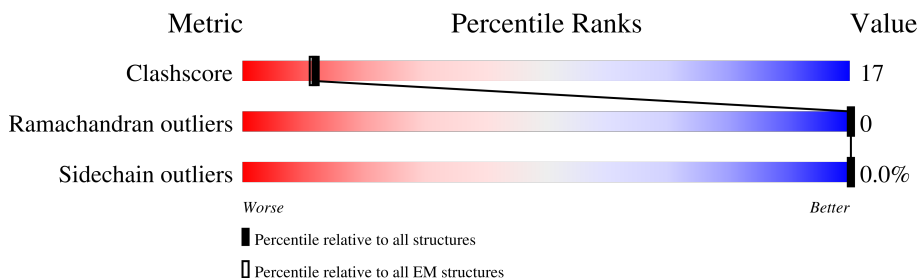
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 5.67 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	467 (5.18 - 6.17)

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	Q	20	25% 90% 10%
1	R	20	25% 90% 10%
2	C	4128	30% 58% 31% 11%
2	L	4128	31% 58% 31% 11%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 58770 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called unknown region of DNA-PKcs.

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

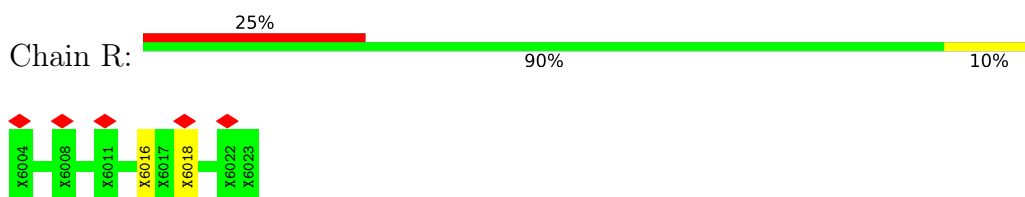
- Molecule 2 is a protein called DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	L	3662	Total	C	N	O	S	0	0
			29284	18776	4946	5370	192		
2	C	3662	Total	C	N	O	S	0	0
			29284	18776	4946	5370	192		

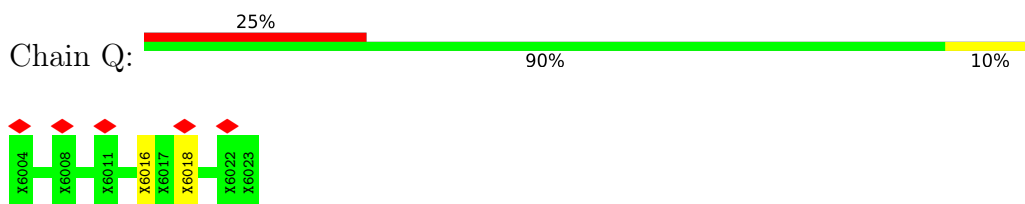
3 Residue-property plots

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

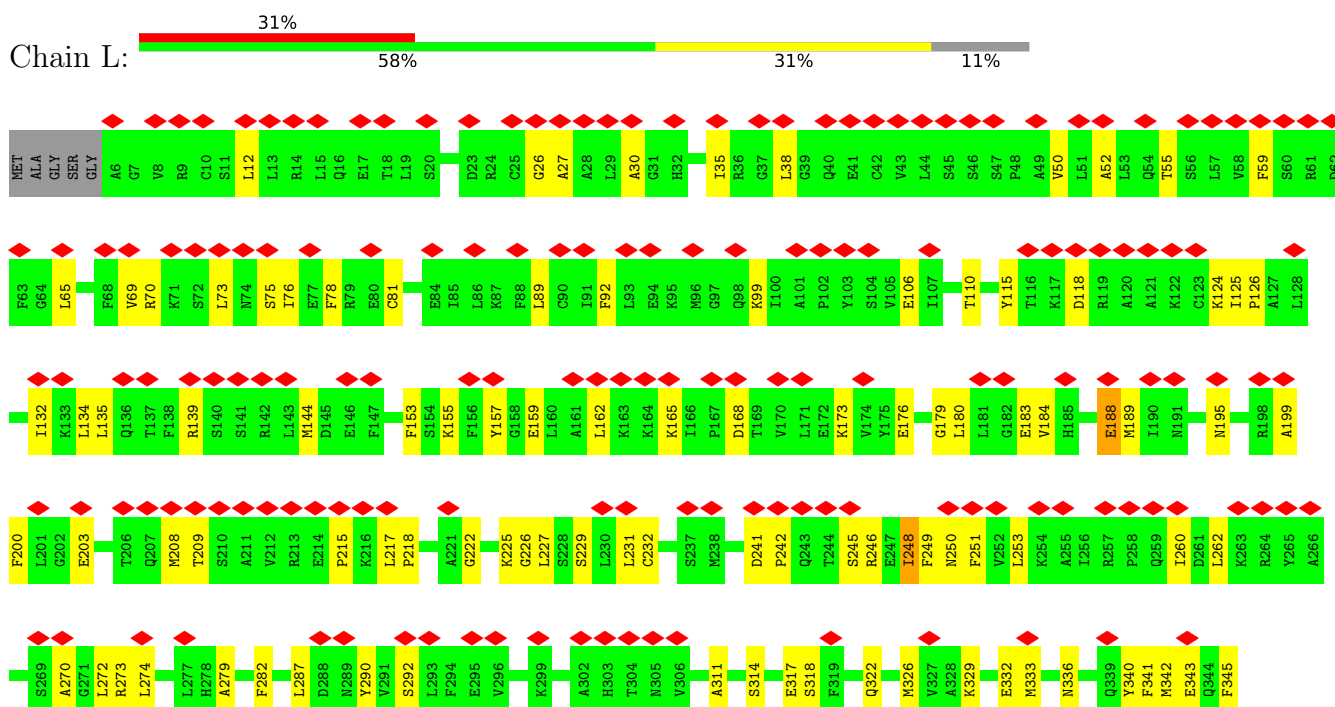
- Molecule 1: unknown region of DNA-PKcs



- Molecule 1: unknown region of DNA-PKcs



- Molecule 2: DNA-dependent protein kinase catalytic subunit

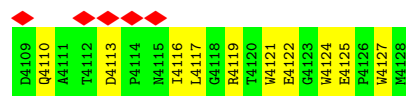




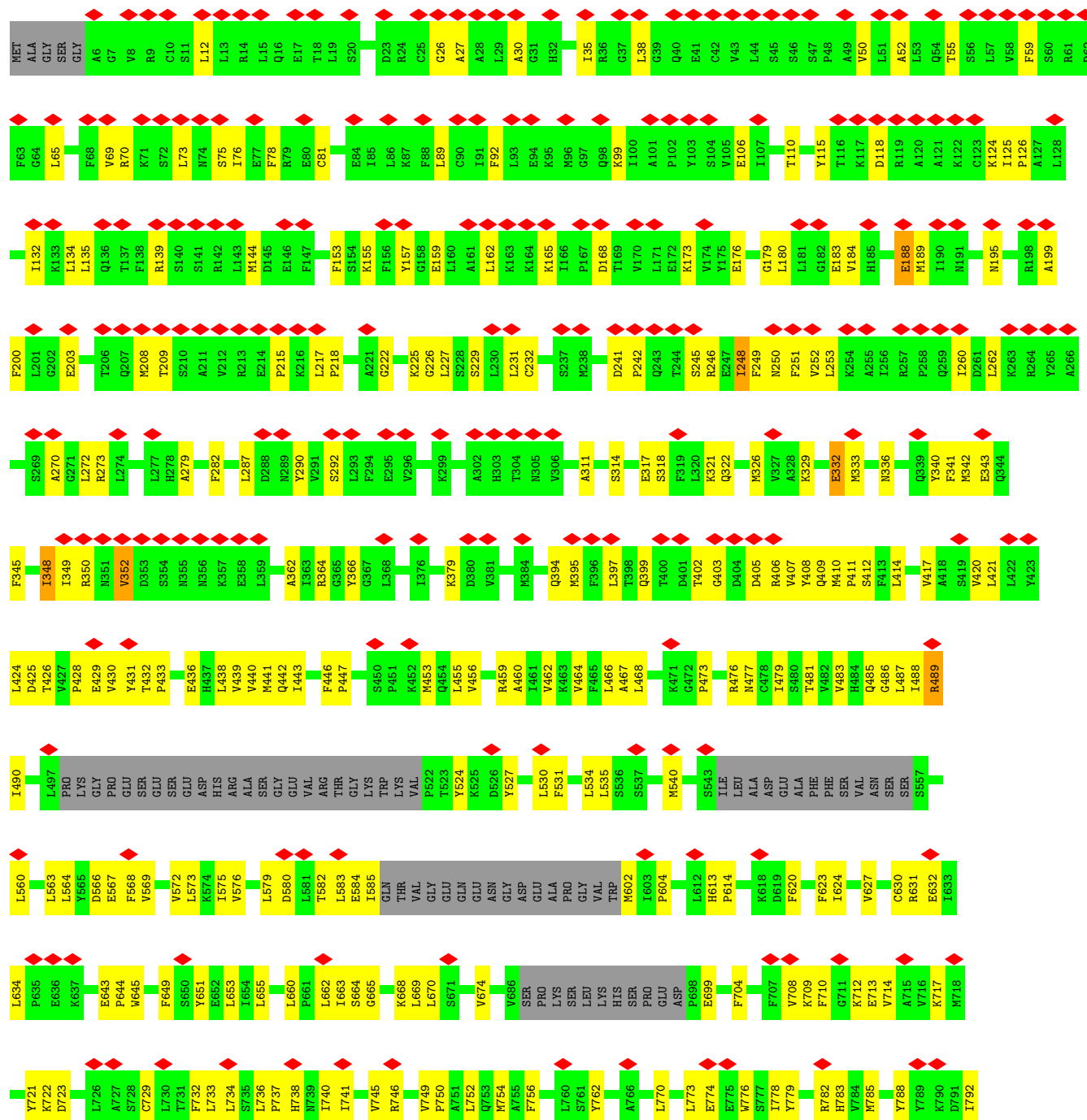








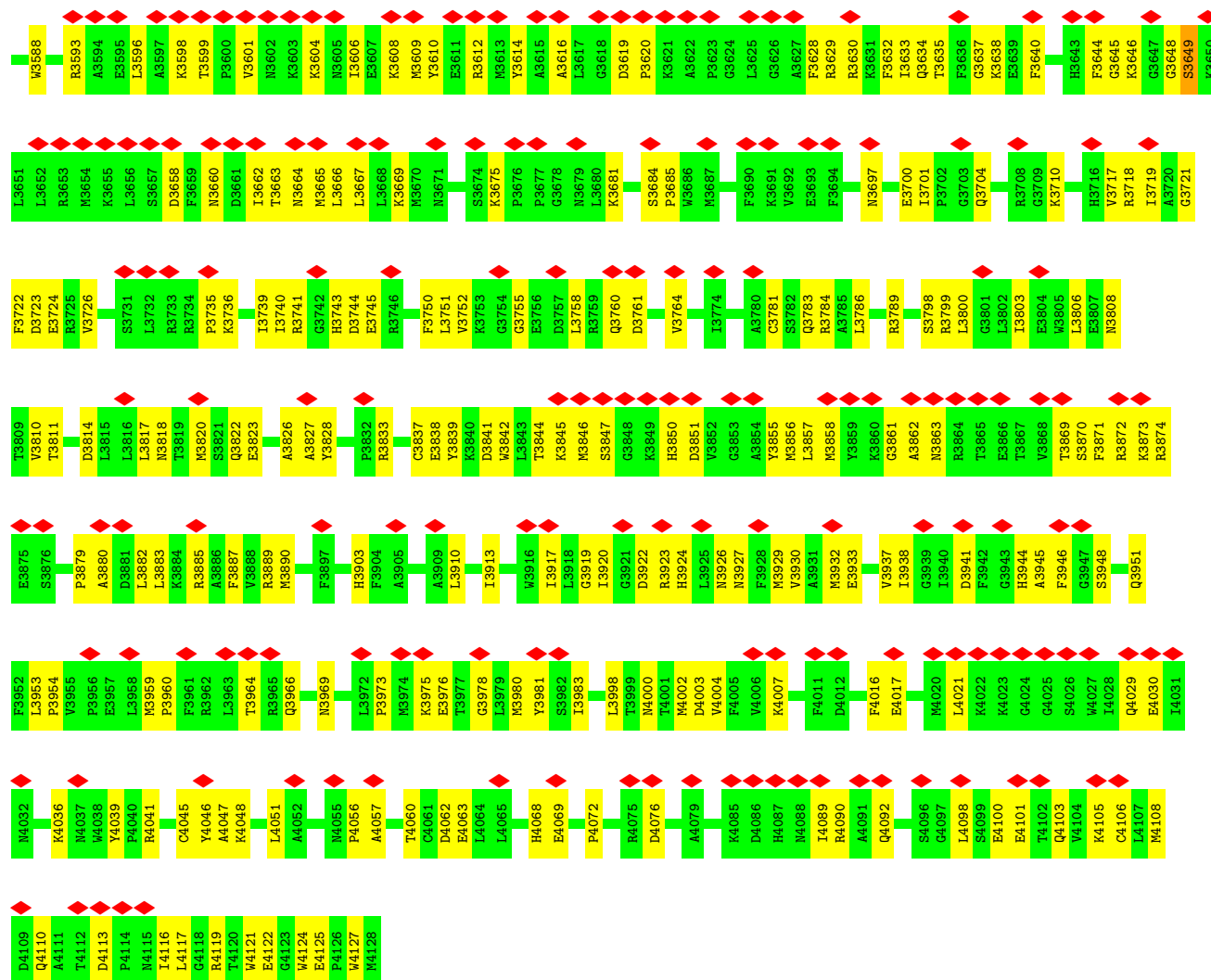
● Molecule 2: DNA-dependent protein kinase catalytic subunit





ARG	W2625	R2452	H2390	Y2312	V2230	F2157	H2091	E1969	I1905	V1845	S1780
SER	N2534	E2453	G2391	K2313	E2236	R2158	E2092	K1970	T1906	D1846	S1781
VAL	T2535	L2454	V2392	E2314	P2159	C2093	C2093	P1971	E1907	A1847	F1782
THR	L2536	L2455	L2393	A2318	W2164	W2164	A2095	H1974	G1908	I1848	R1784
PRO	L2537	N2456	K2394	A2319	L2165	P2096	P2096	L1975	N1909	D1849	I1785
MET	L2538	P2457	T2395	A2320	L2168	L2097	T2098	L1976	E1910	V1850	A1786
PHE	L2539	W2458	K2396	E2321	L2170	L2169	L2169	L1977	L1911	K1852	R1787
VAL	L2540	V2459	C2397	E2322	Q2176	L2169	A2099	F1978	T1912	S1853	R1788
GLU	A2541	F2461	L2398	V2322	E2243	L2169	L2100	E1979	K1913	G1789	S1790
THR			E2399	G2324	W2245	L2171	V2101	N1980	T1914	F1855	C1791
GLN			W2400	L2325	K2246	A2172	K2102	L1981	L1915	V1792	L1851
ALA	L2545	H2464	V2401	L2326	D2247	A2173	H2105	I1982	I1916	K1857	R1786
SER	K2549	P2465	C2403	L2327	S2174	E2175	R2106	L1983	K1917	S1858	T1793
GLN	I2550	S2466	L2402	L2327	L2249	E2176	S2107	L1984	C1918	G1794	Q1794
THR	V2552	Q2471	W2405	V2330	Y2253	N2176	L2108	K1985	C1919	N1859	V1795
GLN	H2553	M2472	G2407	M2331	F2260	G2178	GLY	ARG	Y1920	E1860	V1795
ARG		M2473	M2408	E2332	S2261	G2179	PRO	ARG	D1921	G1796	L1797
THR	S2556	W2479	T2409	R2333	G2262	E2180	PRO	TYR	A1922	T1862	L1798
GLN	L2557	I2480	E2410	R2334	K2263	E2181	GLN	ASN	F1923	F1863	
GLY	A2558	H2481	L2411	L2337	D2264	I2182	GLY	PHE	T1924	D1864	
SER	T2559	D2482	Y2412	E2338	H2183	G2183	GLU	VAL	E1925	T1865	
SER	N2560	N2483	F2413	E2339	P2265	Y2184	GLU	VAL	M1926	Q1866	
SER	L2562	Y2484	F2414	E2340	N2266	S2185	ASP	GLU	M1927	I1867	
ALA	R2485	R2485	Q2414	S2340	S2267	M2185	SER	GLU	A1928	K1869	
ARG	D2486	P2487	L2415	L2341	K2268		VAL	VAL	G1929	D1870	
TRP	M2487	E2488	K2416	C2342	D2269		PRO	PRO	E1930	M1871	
VAL	E2488	E2488	S2417	E2343	W2270		ALA	GLU	N1931	G1872	
ALA	S2489	S2489	K2418	L2344	G2278		THR	GLY	Q1932	Y1873	
GLY	E2490	E2490	D2419	K2347	T2197		GLY	LYS	L1933	Y1874	
GLN	T2491	T2491	F2420	K2350	G2198		ARG	LYS	L1934	K1875	
THR	D2492	D2492	V2421	K2350	L2199		ARG	ILE	E1935	I1876	
ALA	N2493	Q2422	Q2422	N2354	A2200		ARG	GLU	R1936	L1877	
THR	D2494	W2423	M2424	T2355	T2201		ARG	ILE	R1937	D1878	
GLN	R2425	M2424	R2425	M2356	T2202		GLN	GLN	R1938	M1880	
GLN	Q2496	R2426	R2426	E2357	T2203		ASP	GLU	L1939	F1819	
HIS	E2497	H2426	R2427	E2358	G2204		ASP	ALA	Y1940	V1820	
ASP	L2498	R2427	D2428	K2359	V2205		PRO	ALA	C1942	D1821	
PHE	F2499	D2428	D2429	F2360	P2206		THR	ARG	A1943	R1822	
THR	K2500	D2429	E2430	L2361	K2207		VAL	GLU	VAL	S1823	
GLN	L2501	R2431	R2431	C2362	D2208		HIS	ALA	A1944	L1824	
THR	A2502	R2431	R2431	C2363	E2209		ASP	ASP	N1946	K1886	
THR	K2503	V2434	V2434	L2364	V2210		VAL	GLY	C1947	D1887	
ALA	D2504	C2435	C2435	N2365	L2141		LEU	ASP	V1951	V1828	
ASP	V2505			K2366	L2142		LEU	SER	I1952	W1829	
GLY	L2506			V2367	L2143		GLU	GLY	C1953	H1830	
ARG	L2507			F2371	L2144		GLU	PRO	K1892	C1831	
SER	Q2508	I2438	I2439	P2372	L2216		THR	SER	V1955	L1833	
SER	G2509	I2440	K2441	P2373	N2217		MET	GLY	F1956	D1834	
ASP	L2510	M2442	M2443	L2374	L2219		SER	SER	N1957	K1895	
		A2376	A2376	L2376	M2220		LEU	LEU	E1958	L1836	
		R2377	R2377	N2304	T2151		SER	SER	L1959	R1837	
		L2385	L2385	N2305	T2152		LEU	LEU	K1960	E1838	
				S2308	T2153		GLY	ASP	F1961	F1839	
				F2309	E2154		GLY	ASP	K1965	F1840	
				V2310	E2155		GLY	ASP	L1966	T1842	
				R2311	E2156		GLY	ASP	F1967	I1843	
							GLY	ASP	S1968	V1844	
							GLY	ASP		C1904	





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	64775	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	65	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.031	Depositor
Minimum map value	-0.017	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.006	Depositor
Map size (Å)	356.6592, 356.6592, 356.6592	wwPDB
Map dimensions	432, 432, 432	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.8256, 0.8256, 0.8256	Depositor

5 Model quality

5.1 Standard geometry

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
2	C	0.25	1/29884 (0.0%)	0.65	20/40387 (0.0%)
2	L	0.25	1/29884 (0.0%)	0.65	16/40387 (0.0%)
All	All	0.25	2/59768 (0.0%)	0.65	36/80774 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	3
2	L	0	2
All	All	0	5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	580	ASP	CA-CB	5.07	1.60	1.53
2	L	580	ASP	CA-CB	5.04	1.60	1.53

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	L	352	VAL	N-CA-C	10.45	124.15	111.09
2	C	352	VAL	N-CA-C	10.42	124.11	111.09
2	C	348	ILE	CA-C-N	8.10	135.36	122.56
2	C	348	ILE	C-N-CA	8.10	135.36	122.56
2	L	348	ILE	CA-C-N	8.08	135.33	122.56
2	L	348	ILE	C-N-CA	8.08	135.33	122.56
2	C	3462	ARG	N-CA-C	6.25	119.29	110.23
2	L	3462	ARG	N-CA-C	6.24	119.28	110.23
2	C	746	ARG	CA-CB-CG	6.19	126.47	114.10
2	L	248	ILE	N-CA-C	-6.17	106.79	112.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	248	ILE	N-CA-C	-6.17	106.79	112.96
2	L	746	ARG	CA-CB-CG	6.17	126.44	114.10
2	L	3649	SER	N-CA-C	-5.59	107.00	113.88
2	C	3649	SER	N-CA-C	-5.59	107.00	113.88
2	L	184	VAL	CA-C-N	5.55	127.70	120.26
2	L	184	VAL	C-N-CA	5.55	127.70	120.26
2	C	184	VAL	CA-C-N	5.53	127.67	120.26
2	C	184	VAL	C-N-CA	5.53	127.67	120.26
2	C	350	ARG	CA-C-N	5.41	129.58	122.06
2	C	350	ARG	C-N-CA	5.41	129.58	122.06
2	L	350	ARG	CA-C-N	5.38	129.54	122.06
2	L	350	ARG	C-N-CA	5.38	129.54	122.06
2	C	188	GLU	CA-C-N	5.20	129.53	122.19
2	C	188	GLU	C-N-CA	5.20	129.53	122.19
2	L	188	GLU	CA-C-N	5.18	129.50	122.19
2	L	188	GLU	C-N-CA	5.18	129.50	122.19
2	L	139	ARG	NE-CZ-NH2	5.13	123.82	119.20
2	C	139	ARG	NE-CZ-NH2	5.12	123.81	119.20
2	C	332	GLU	CA-C-N	5.06	129.51	121.72
2	C	332	GLU	C-N-CA	5.06	129.51	121.72
2	L	118	ASP	CA-C-N	5.05	131.19	121.54
2	L	118	ASP	C-N-CA	5.05	131.19	121.54
2	C	118	ASP	CA-C-N	5.05	131.18	121.54
2	C	118	ASP	C-N-CA	5.05	131.18	121.54
2	C	762	TYR	CA-C-N	5.01	126.35	120.09
2	C	762	TYR	C-N-CA	5.01	126.35	120.09

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	364	ARG	Sidechain
2	C	366	TYR	Sidechain
2	C	489	ARG	Sidechain
2	L	364	ARG	Sidechain
2	L	489	ARG	Sidechain

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Q	101	0	25	3	0
1	R	101	0	25	3	0
2	C	29284	0	29680	1017	0
2	L	29284	0	29680	1031	0
All	All	58770	0	59410	2020	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 17.

All (2020) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3606:ILE:O	2:L:3610:TYR:HB2	1.53	1.08
2:C:3606:ILE:O	2:C:3610:TYR:HB2	1.53	1.07
2:L:26:GLY:C	2:C:76:ILE:HD12	1.84	1.01
2:L:76:ILE:HD12	2:C:26:GLY:C	1.86	1.01
2:C:2890:ILE:HG12	2:C:2929:LEU:HD21	1.47	0.95
2:L:2890:ILE:HG12	2:L:2929:LEU:HD21	1.47	0.95
2:C:776:TRP:HB3	2:C:785:MET:HE1	1.51	0.93
2:L:776:TRP:HB3	2:L:785:MET:HE1	1.50	0.93
2:L:1750:LEU:HD23	2:L:1759:LEU:HD12	1.53	0.90
2:C:1750:LEU:HD23	2:C:1759:LEU:HD12	1.53	0.90
2:L:1184:ARG:NH2	2:L:1266:CYS:SG	2.45	0.89
2:L:414:LEU:HD22	2:L:442:GLN:HG2	1.55	0.88
2:C:1184:ARG:NH2	2:C:1266:CYS:SG	2.45	0.88
2:C:414:LEU:HD22	2:C:442:GLN:HG2	1.55	0.88
2:L:76:ILE:CD1	2:C:26:GLY:C	2.49	0.86
2:C:3789:ARG:HH12	2:C:3806:LEU:HD11	1.42	0.85
2:L:26:GLY:C	2:C:76:ILE:CD1	2.48	0.85
2:L:1198:LEU:HD12	2:L:1199:PRO:HD2	1.59	0.85
2:L:1713:VAL:HG23	2:L:1716:GLN:HE21	1.42	0.84
2:C:1713:VAL:HG23	2:C:1716:GLN:HE21	1.42	0.84
2:C:1198:LEU:HD12	2:C:1199:PRO:HD2	1.59	0.83
2:L:3789:ARG:HH12	2:L:3806:LEU:HD11	1.42	0.82
2:L:411:PRO:HA	2:L:414:LEU:HG	1.61	0.82
2:C:411:PRO:HA	2:C:414:LEU:HG	1.61	0.81
2:L:3786:LEU:HD23	2:L:3910:LEU:HD13	1.64	0.80
2:C:3786:LEU:HD23	2:C:3910:LEU:HD13	1.63	0.80
2:C:1840:PHE:HB2	2:C:1880:MET:HE1	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1494:GLY:HA3	2:C:1538:LEU:HB2	1.62	0.79
2:L:352:VAL:HG11	2:L:1733:THR:CG2	2.12	0.79
2:C:352:VAL:HG11	2:C:1733:THR:CG2	2.12	0.79
2:L:1494:GLY:HA3	2:L:1538:LEU:HB2	1.62	0.79
2:L:3847:SER:HB2	2:L:3857:LEU:HD13	1.64	0.79
2:L:26:GLY:O	2:C:76:ILE:HG13	1.82	0.79
2:L:76:ILE:HG13	2:C:26:GLY:O	1.83	0.79
2:L:3078:LEU:HD12	2:L:3086:LEU:HD11	1.65	0.78
2:C:3078:LEU:HD12	2:C:3086:LEU:HD11	1.65	0.78
2:L:1840:PHE:HB2	2:L:1880:MET:HE1	1.64	0.78
2:L:962:TYR:HA	2:L:965:THR:HG22	1.66	0.78
2:C:3887:PHE:HA	2:C:3890:MET:HE3	1.65	0.78
2:C:3847:SER:HB2	2:C:3857:LEU:HD13	1.64	0.77
2:L:3006:ALA:HB3	2:L:3257:LYS:HZ3	1.47	0.77
2:L:3887:PHE:HA	2:L:3890:MET:HE3	1.65	0.77
2:C:962:TYR:HA	2:C:965:THR:HG22	1.66	0.77
2:L:3100:LYS:O	2:L:3104:GLN:NE2	2.18	0.76
2:C:3100:LYS:O	2:C:3104:GLN:NE2	2.18	0.76
2:C:3424:LEU:HD21	2:C:3446:VAL:HG21	1.68	0.76
2:L:27:ALA:HA	2:C:76:ILE:HD11	1.67	0.76
2:L:397:LEU:HB3	2:L:1744:LYS:HE2	1.67	0.76
2:L:3424:LEU:HD21	2:L:3446:VAL:HG21	1.68	0.76
2:L:3726:VAL:HB	2:L:3736:LYS:HZ1	1.50	0.76
2:C:397:LEU:HB3	2:C:1744:LYS:HE2	1.67	0.75
2:C:2498:ILE:HA	2:C:2501:LEU:HG	1.69	0.75
2:C:935:HIS:O	2:C:939:MET:HG2	1.87	0.75
2:L:2404:ARG:HE	2:L:2441:LYS:HE3	1.51	0.74
2:L:2498:ILE:HA	2:L:2501:LEU:HG	1.68	0.74
2:L:76:ILE:HD11	2:C:27:ALA:HA	1.68	0.73
2:C:2404:ARG:HE	2:C:2441:LYS:HE3	1.51	0.73
2:L:935:HIS:O	2:L:939:MET:HG2	1.87	0.73
2:C:1306:ILE:HG23	2:C:1307:ILE:HG12	1.70	0.73
2:L:3298:LEU:HD22	2:L:3351:ILE:HD13	1.71	0.73
2:L:1306:ILE:HG23	2:L:1307:ILE:HG12	1.70	0.73
2:C:2243:GLU:OE1	2:C:2283:ASN:ND2	2.22	0.73
2:L:242:PRO:HA	2:L:246:ARG:HD3	1.70	0.72
2:C:997:ASN:HD22	2:C:1043:GLN:HG3	1.54	0.72
2:C:3760:GLN:NE2	2:C:3761:ASP:OD2	2.22	0.72
2:L:1176:CYS:O	2:L:1184:ARG:NH2	2.23	0.72
2:L:1816:ARG:HA	2:L:1819:PHE:HD2	1.55	0.72
2:L:2243:GLU:OE1	2:L:2283:ASN:ND2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3760:GLN:NE2	2:L:3761:ASP:OD2	2.22	0.72
2:C:242:PRO:HA	2:C:246:ARG:HD3	1.70	0.72
2:L:27:ALA:N	2:C:76:ILE:HD12	2.05	0.72
2:C:157:TYR:OH	2:C:195:ASN:ND2	2.22	0.72
2:L:208:MET:HG3	2:L:209:THR:HG23	1.70	0.72
2:L:157:TYR:OH	2:L:195:ASN:ND2	2.22	0.72
2:C:992:ILE:HD11	2:C:1036:PHE:HD1	1.55	0.72
2:C:208:MET:HG3	2:C:209:THR:HG23	1.70	0.72
2:C:3137:GLU:OE1	2:C:3164:TRP:NE1	2.23	0.71
2:C:3169:PRO:HG2	2:C:3179:TRP:HE3	1.56	0.71
2:C:1816:ARG:HA	2:C:1819:PHE:HD2	1.55	0.71
2:L:3169:PRO:HG2	2:L:3179:TRP:HE3	1.56	0.71
2:C:1176:CYS:O	2:C:1184:ARG:NH2	2.23	0.71
2:L:76:ILE:HD12	2:C:27:ALA:N	2.06	0.71
2:L:997:ASN:HD22	2:L:1043:GLN:HG3	1.54	0.71
2:C:485:GLN:HA	2:C:488:ILE:HD12	1.73	0.71
2:C:3298:LEU:HD22	2:C:3351:ILE:HD13	1.71	0.71
2:C:3726:VAL:HB	2:C:3736:LYS:HZ1	1.56	0.71
2:L:485:GLN:HB3	2:L:489:ARG:HH22	1.56	0.70
2:L:3606:ILE:O	2:L:3610:TYR:CB	2.37	0.70
2:L:3808:ASN:ND2	2:L:3933:GLU:OE1	2.22	0.70
2:C:3718:ARG:H	2:C:3743:HIS:CE1	2.09	0.70
2:L:992:ILE:HD11	2:L:1036:PHE:HD1	1.55	0.70
2:L:2303:LEU:HD21	2:L:2320:ALA:H	1.56	0.70
2:L:3455:LYS:HE3	2:L:3489:SER:HB3	1.73	0.70
2:L:1831:CYS:O	2:L:1883:ARG:NH1	2.24	0.70
2:C:2303:LEU:HD21	2:C:2320:ALA:H	1.56	0.70
2:C:3455:LYS:HE3	2:C:3489:SER:HB3	1.73	0.70
2:L:1268:ASN:OD1	2:L:1347:THR:OG1	2.07	0.70
2:C:1051:LYS:HB2	2:C:1053:PRO:HD2	1.72	0.70
2:L:4007:LYS:HE2	2:L:4041:ARG:HA	1.74	0.70
2:L:1051:LYS:HB2	2:L:1053:PRO:HD2	1.72	0.70
2:L:3450:MET:SD	2:L:3475:TYR:OH	2.49	0.69
2:L:3137:GLU:OE1	2:L:3164:TRP:NE1	2.23	0.69
2:C:2887:PRO:HA	2:C:2890:ILE:HD12	1.75	0.69
2:C:3922:ASP:O	2:C:3927:ASN:ND2	2.24	0.69
2:L:485:GLN:HA	2:L:488:ILE:HD12	1.73	0.69
2:C:3838:GLU:HB3	2:C:3874:ARG:HD3	1.74	0.69
2:C:4007:LYS:HE2	2:C:4041:ARG:HA	1.74	0.69
2:L:3838:GLU:HB3	2:L:3874:ARG:HD3	1.74	0.69
2:L:3718:ARG:H	2:L:3743:HIS:CE1	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1779:GLN:OE1	2:C:1822:ARG:NH1	2.26	0.69
2:L:1134:LEU:HD23	2:L:1137:ILE:HD13	1.75	0.69
2:L:3922:ASP:O	2:L:3927:ASN:ND2	2.24	0.69
2:C:960:GLN:N	2:C:960:GLN:OE1	2.26	0.69
2:L:2887:PRO:HA	2:L:2890:ILE:HD12	1.74	0.69
2:L:2350:LYS:NZ	2:C:162:LEU:HD13	2.07	0.69
2:L:2536:LEU:HA	2:L:2539:LEU:HD12	1.75	0.69
2:C:1134:LEU:HD23	2:C:1137:ILE:HD13	1.75	0.69
2:L:939:MET:HB3	2:L:2783:ILE:HA	1.75	0.68
2:C:1268:ASN:OD1	2:C:1347:THR:OG1	2.07	0.68
2:L:975:ASP:OD1	2:L:976:VAL:N	2.27	0.68
2:L:3522:THR:HG22	2:L:3529:ILE:HG21	1.75	0.68
2:C:485:GLN:HB3	2:C:489:ARG:HH22	1.56	0.68
2:C:2536:LEU:HA	2:C:2539:LEU:HD12	1.75	0.68
2:C:2825:THR:OG1	2:C:2828:GLU:OE2	2.12	0.68
2:L:180:LEU:HD21	2:L:225:LYS:HE3	1.76	0.68
2:C:438:LEU:HD12	2:C:441:MET:HB3	1.76	0.68
2:C:3281:CYS:O	2:C:3285:HIS:ND1	2.27	0.68
2:C:3808:ASN:ND2	2:C:3933:GLU:OE1	2.22	0.68
2:L:428:PRO:HA	2:L:1551:ILE:HG21	1.76	0.67
2:L:438:LEU:HD12	2:L:441:MET:HB3	1.76	0.67
2:C:439:VAL:O	2:C:442:GLN:HB3	1.95	0.67
2:C:975:ASP:OD1	2:C:976:VAL:N	2.27	0.67
2:L:440:VAL:HG11	2:L:489:ARG:NH1	2.09	0.67
2:L:1045:THR:O	2:L:1048:GLN:NE2	2.28	0.67
2:C:440:VAL:HG11	2:C:489:ARG:NH1	2.09	0.67
2:C:1045:THR:O	2:C:1048:GLN:NE2	2.28	0.67
2:C:1831:CYS:O	2:C:1883:ARG:NH1	2.24	0.67
2:C:2890:ILE:CG1	2:C:2929:LEU:HD21	2.22	0.67
2:C:3179:TRP:HE1	2:C:3242:MET:HA	1.60	0.67
2:L:3281:CYS:O	2:L:3285:HIS:ND1	2.27	0.67
2:C:125:ILE:O	2:C:173:LYS:NZ	2.28	0.67
2:L:439:VAL:O	2:L:442:GLN:HB3	1.95	0.67
2:L:960:GLN:OE1	2:L:960:GLN:N	2.26	0.67
2:C:939:MET:HB3	2:C:2783:ILE:HA	1.75	0.67
2:L:1779:GLN:OE1	2:L:1822:ARG:NH1	2.26	0.67
2:C:180:LEU:HD21	2:C:225:LYS:HE3	1.76	0.67
2:L:4090:ARG:NH2	2:L:4106:CYS:O	2.29	0.67
2:C:3522:THR:HG22	2:C:3529:ILE:HG21	1.75	0.67
2:L:162:LEU:HD13	2:C:2350:LYS:NZ	2.09	0.66
2:C:411:PRO:HG2	2:C:453:MET:HE2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:411:PRO:HG2	2:L:453:MET:HE2	1.78	0.66
2:C:486:GLY:O	2:C:490:ILE:HG12	1.95	0.66
2:L:125:ILE:O	2:L:173:LYS:NZ	2.28	0.66
2:C:892:LEU:HD12	2:C:961:LEU:HD13	1.78	0.66
2:C:3606:ILE:O	2:C:3610:TYR:CB	2.37	0.66
2:C:3726:VAL:HB	2:C:3736:LYS:NZ	2.10	0.66
2:L:745:VAL:HB	2:L:788:TYR:CZ	2.31	0.66
2:L:2936:TYR:HB3	2:L:2940:ARG:HH22	1.60	0.66
2:C:3259:LEU:HA	2:C:3262:LEU:HD12	1.77	0.66
2:L:486:GLY:O	2:L:490:ILE:HG12	1.95	0.66
2:L:2825:THR:OG1	2:L:2828:GLU:OE2	2.12	0.66
2:L:2890:ILE:CG1	2:L:2929:LEU:HD21	2.22	0.66
2:L:3179:TRP:HE1	2:L:3242:MET:HA	1.60	0.66
2:L:3190:LEU:HD12	2:L:3231:ILE:HG23	1.78	0.66
2:L:2850:PHE:HB3	2:L:2883:SER:HB3	1.78	0.66
2:C:2566:THR:O	2:C:2572:TYR:OH	2.14	0.66
2:L:3259:LEU:HA	2:L:3262:LEU:HD12	1.77	0.66
2:C:745:VAL:HB	2:C:788:TYR:CZ	2.31	0.66
2:C:3450:MET:SD	2:C:3475:TYR:OH	2.49	0.66
2:L:1718:ILE:O	2:L:1722:PHE:N	2.18	0.65
2:C:3324:ARG:HH21	2:C:3391:ALA:HB3	1.61	0.65
2:L:643:GLU:HG2	2:L:644:PRO:HD3	1.79	0.65
2:L:2539:LEU:HD11	2:L:2816:ILE:HG21	1.78	0.65
2:C:632:GLU:OE1	2:C:632:GLU:N	2.26	0.65
2:C:2850:PHE:HB3	2:C:2883:SER:HB3	1.78	0.65
2:C:428:PRO:HA	2:C:1551:ILE:HG21	1.76	0.65
2:L:1304:HIS:HB2	2:L:1308:ALA:HB2	1.78	0.65
2:L:1327:GLY:O	2:L:1331:ASN:ND2	2.29	0.65
2:L:2492:ASP:HB2	2:C:3093:GLN:HE21	1.61	0.65
2:C:1304:HIS:HB2	2:C:1308:ALA:HB2	1.78	0.65
2:C:4090:ARG:NH2	2:C:4106:CYS:O	2.29	0.65
2:L:897:PRO:HA	2:L:902:LYS:HG3	1.78	0.65
2:L:3883:LEU:HD23	2:L:3966:GLN:HB3	1.78	0.65
2:C:938:VAL:HA	2:C:941:MET:HE2	1.78	0.65
2:C:1327:GLY:O	2:C:1331:ASN:ND2	2.29	0.65
2:C:2539:LEU:HD11	2:C:2816:ILE:HG21	1.78	0.65
2:C:3721:GLY:N	2:C:3741:ARG:O	2.29	0.65
2:L:3093:GLN:HE21	2:C:2492:ASP:HB2	1.60	0.65
2:L:3726:VAL:HB	2:L:3736:LYS:NZ	2.10	0.65
2:C:2301:GLN:NE2	2:C:2305:ASN:OD1	2.30	0.65
2:C:3190:LEU:HD12	2:C:3231:ILE:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2566:THR:O	2:L:2572:TYR:OH	2.14	0.65
2:C:2978:LYS:HE2	2:C:2981:TRP:HA	1.79	0.65
2:C:2987:THR:OG1	2:C:2990:GLU:OE1	2.11	0.65
2:C:3883:LEU:HD23	2:C:3966:GLN:HB3	1.78	0.65
2:L:2987:THR:OG1	2:L:2990:GLU:OE1	2.11	0.65
2:C:2936:TYR:HB3	2:C:2940:ARG:HH22	1.60	0.65
2:C:3723:ASP:OD1	2:C:3724:GLU:N	2.28	0.65
2:L:2421:VAL:HG13	2:L:2457:PRO:HG3	1.79	0.65
2:C:3470:GLN:HG3	2:C:4004:VAL:HB	1.79	0.65
2:L:3723:ASP:OD1	2:L:3724:GLU:N	2.28	0.64
2:C:2280:VAL:HA	2:C:2285:LEU:HD12	1.78	0.64
2:C:3634:GLN:NE2	2:C:3635:THR:OG1	2.31	0.64
2:L:892:LEU:HD12	2:L:961:LEU:HD13	1.78	0.64
2:L:1750:LEU:HD22	2:L:1762:MET:HE3	1.79	0.64
2:L:2280:VAL:HA	2:L:2285:LEU:HD12	1.78	0.64
2:C:2138:VAL:O	2:C:2143:ARG:NH1	2.27	0.64
2:L:1426:GLN:NE2	2:L:1429:GLU:OE1	2.30	0.64
2:L:3324:ARG:HH21	2:L:3391:ALA:HB3	1.61	0.64
2:C:643:GLU:HG2	2:C:644:PRO:HD3	1.79	0.64
2:C:3302:LYS:HE2	2:C:3355:LYS:HE2	1.79	0.64
2:L:938:VAL:HA	2:L:941:MET:HE2	1.78	0.64
2:C:1426:GLN:NE2	2:C:1429:GLU:OE1	2.30	0.64
2:L:921:ALA:HB3	2:L:927:LYS:HE2	1.80	0.64
2:L:1023:SER:HA	2:L:1026:ARG:HE	1.63	0.64
2:L:1737:ASN:HA	2:L:1740:VAL:HG22	1.80	0.64
2:C:75:SER:HB2	2:C:78:PHE:HB3	1.79	0.64
2:C:3048:LYS:HE3	2:C:3061:LEU:HB2	1.80	0.64
2:L:2973:ASP:OD1	2:L:2977:ASN:ND2	2.30	0.64
2:L:3634:GLN:NE2	2:L:3635:THR:OG1	2.31	0.64
2:C:2973:ASP:OD1	2:C:2977:ASN:ND2	2.30	0.64
2:L:75:SER:HB2	2:L:78:PHE:HB3	1.79	0.64
2:L:1537:VAL:HA	2:L:1554:SER:HA	1.80	0.64
2:L:2301:GLN:NE2	2:L:2305:ASN:OD1	2.30	0.64
2:L:3470:GLN:HG3	2:L:4004:VAL:HB	1.79	0.64
2:C:485:GLN:HB3	2:C:489:ARG:HH12	1.63	0.64
2:C:921:ALA:HB3	2:C:927:LYS:HE2	1.80	0.64
2:C:135:LEU:HD23	2:C:144:MET:HE1	1.80	0.64
2:C:1023:SER:HA	2:C:1026:ARG:HE	1.63	0.64
2:C:2421:VAL:HG13	2:C:2457:PRO:HG3	1.79	0.64
2:L:485:GLN:HB3	2:L:489:ARG:HH12	1.63	0.64
2:L:3721:GLY:N	2:L:3741:ARG:O	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3871:PHE:HA	2:L:3874:ARG:HH22	1.62	0.64
2:L:2978:LYS:HE2	2:L:2981:TRP:HA	1.79	0.63
2:C:1737:ASN:HA	2:C:1740:VAL:HG22	1.80	0.63
2:C:1750:LEU:HD22	2:C:1762:MET:HE3	1.79	0.63
2:C:3871:PHE:HA	2:C:3874:ARG:HH22	1.62	0.63
2:C:897:PRO:HA	2:C:902:LYS:HG3	1.78	0.63
2:C:1767:CYS:HB2	2:C:1815:THR:HB	1.80	0.63
2:C:2448:PRO:HB3	2:C:2451:LEU:HD12	1.79	0.63
2:L:1864:ASP:O	2:L:1868:THR:HG23	1.98	0.63
2:C:176:GLU:HG2	2:C:225:LYS:HB3	1.80	0.63
2:C:1742:CYS:O	2:C:1745:LYS:HG2	1.99	0.63
2:C:2359:LYS:HG2	2:C:2361:ILE:H	1.63	0.63
2:C:2578:GLU:N	2:C:2784:GLN:HE22	1.97	0.63
2:C:3278:GLN:HG3	2:C:3282:ARG:HH12	1.64	0.63
2:L:1742:CYS:O	2:L:1745:LYS:HG2	1.99	0.63
2:L:3842:TRP:HA	2:L:3845:LYS:HB2	1.81	0.63
2:C:3871:PHE:HA	2:C:3874:ARG:NH2	2.14	0.63
2:L:3169:PRO:HG2	2:L:3179:TRP:CE3	2.33	0.63
2:L:3828:TYR:OH	2:L:4127:TRP:NE1	2.32	0.63
2:C:1537:VAL:HA	2:C:1554:SER:HA	1.80	0.63
2:L:485:GLN:HB3	2:L:489:ARG:NH2	2.14	0.63
2:L:2343:GLU:O	2:L:2347:LYS:HG2	1.99	0.63
2:L:3302:LYS:HE2	2:L:3355:LYS:HE2	1.79	0.63
2:C:3842:TRP:HA	2:C:3845:LYS:HB2	1.81	0.63
2:L:1767:CYS:HB2	2:L:1815:THR:HB	1.81	0.63
2:L:2844:LEU:HD21	2:L:2858:ILE:HG21	1.80	0.63
2:C:1177:GLY:HA2	2:C:1184:ARG:HH22	1.63	0.63
2:L:2359:LYS:HG2	2:L:2361:ILE:H	1.63	0.62
2:L:2448:PRO:HB3	2:L:2451:LEU:HD12	1.80	0.62
2:L:3084:GLN:HE21	2:L:3135:LEU:HD12	1.64	0.62
2:C:889:GLU:OE1	2:C:891:ARG:HB2	1.99	0.62
2:C:1061:LYS:HA	2:C:1064:TYR:HD2	1.64	0.62
2:L:1061:LYS:HA	2:L:1064:TYR:HD2	1.64	0.62
2:C:1532:LEU:HD22	2:C:1559:PHE:HD2	1.64	0.62
2:L:3871:PHE:HA	2:L:3874:ARG:NH2	2.14	0.62
2:C:2343:GLU:O	2:C:2347:LYS:HG2	1.99	0.62
2:C:3137:GLU:OE2	2:C:3167:ARG:NH1	2.32	0.62
2:C:714:VAL:HA	2:C:717:LYS:HG2	1.82	0.62
2:C:3169:PRO:HG2	2:C:3179:TRP:CE3	2.33	0.62
2:L:135:LEU:HD23	2:L:144:MET:HE1	1.80	0.62
2:L:889:GLU:OE1	2:L:891:ARG:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2575:PRO:HB2	2:L:2784:GLN:HE21	1.64	0.62
2:L:1177:GLY:HA2	2:L:1184:ARG:HH22	1.63	0.62
2:C:1864:ASP:O	2:C:1868:THR:HG23	1.98	0.62
2:L:770:LEU:HD13	2:L:773:LEU:HD12	1.82	0.62
2:C:1776:GLU:HG3	2:C:1777:LEU:HD12	1.81	0.62
2:C:3612:ARG:NE	2:C:3799:ARG:HH22	1.97	0.62
2:L:3048:LYS:HE3	2:L:3061:LEU:HB2	1.80	0.62
2:L:1776:GLU:HG3	2:L:1777:LEU:HD12	1.81	0.62
2:L:3137:GLU:OE2	2:L:3167:ARG:NH1	2.32	0.62
2:L:3612:ARG:NE	2:L:3799:ARG:HH22	1.97	0.62
2:C:485:GLN:HB3	2:C:489:ARG:NH2	2.14	0.62
2:C:2844:LEU:HD21	2:C:2858:ILE:HG21	1.80	0.62
2:L:332:GLU:O	2:L:333:MET:HE2	1.99	0.61
2:L:2578:GLU:H	2:L:2784:GLN:HE22	1.47	0.61
2:C:332:GLU:O	2:C:333:MET:HE2	1.99	0.61
2:C:770:LEU:HD13	2:C:773:LEU:HD12	1.82	0.61
2:L:1532:LEU:HD22	2:L:1559:PHE:HD2	1.64	0.61
2:C:2575:PRO:HB2	2:C:2784:GLN:HE21	1.64	0.61
2:L:2138:VAL:O	2:L:2143:ARG:NH1	2.27	0.61
2:C:464:VAL:O	2:C:468:LEU:HG	2.00	0.61
2:C:2322:VAL:HG13	2:C:2325:LEU:HD12	1.83	0.61
2:C:3828:TYR:OH	2:C:4127:TRP:NE1	2.32	0.61
2:L:176:GLU:HG2	2:L:225:LYS:HB3	1.80	0.61
2:L:464:VAL:O	2:L:468:LEU:HG	2.00	0.61
2:L:1715:GLU:OE1	2:L:1715:GLU:N	2.30	0.61
2:L:3264:LYS:HA	2:L:3267:LYS:HD3	1.82	0.61
2:L:3278:GLN:HG3	2:L:3282:ARG:HH12	1.64	0.61
2:L:2322:VAL:HG13	2:L:2325:LEU:HD12	1.83	0.61
2:L:3923:ARG:HA	2:L:3927:ASN:HD22	1.66	0.61
2:C:3183:ILE:HG23	2:C:3238:MET:SD	2.40	0.61
2:C:2588:GLU:OE2	2:C:2775:TYR:OH	2.15	0.61
2:L:2588:GLU:OE2	2:L:2775:TYR:OH	2.15	0.61
2:C:3633:ILE:HG23	2:C:3637:GLY:HA3	1.83	0.61
2:C:4036:LYS:HE2	2:C:4068:HIS:CD2	2.36	0.61
2:L:714:VAL:HA	2:L:717:LYS:HG2	1.82	0.61
2:C:3084:GLN:HE21	2:C:3135:LEU:HD12	1.64	0.61
2:L:1167:ASP:OD1	2:L:1168:LEU:N	2.34	0.61
2:L:1593:VAL:HA	2:L:1596:VAL:HG22	1.82	0.61
2:L:2578:GLU:N	2:L:2784:GLN:HE22	1.97	0.61
2:C:2578:GLU:H	2:C:2784:GLN:HE22	1.47	0.61
2:C:3719:ILE:HD11	2:C:3740:ILE:HB	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:585:ILE:HA	2:L:613:HIS:H	1.66	0.60
2:L:2267:SER:HB3	2:L:2309:PHE:CE1	2.36	0.60
2:L:3183:ILE:HG23	2:L:3238:MET:SD	2.40	0.60
2:C:848:LEU:HD13	2:C:851:ILE:HD11	1.82	0.60
2:C:2826:LEU:O	2:C:2829:LYS:NZ	2.32	0.60
2:C:3923:ARG:HA	2:C:3927:ASN:HD22	1.66	0.60
2:L:2504:ASP:O	2:L:2508:GLN:NE2	2.34	0.60
2:L:2873:PRO:HD3	2:L:2922:ARG:HH22	1.66	0.60
2:C:866:ILE:O	2:C:869:ASN:ND2	2.32	0.60
2:C:1185:HIS:O	2:C:1188:ILE:HG12	2.02	0.60
2:C:2267:SER:HB3	2:C:2309:PHE:CE1	2.36	0.60
2:C:1104:LEU:HD11	2:C:1131:ILE:HA	1.83	0.60
2:C:1167:ASP:OD1	2:C:1168:LEU:N	2.34	0.60
2:C:3264:LYS:HA	2:C:3267:LYS:HD3	1.82	0.60
2:L:2826:LEU:O	2:L:2829:LYS:NZ	2.32	0.60
2:L:1064:TYR:CD1	2:L:1106:ILE:HD11	2.37	0.60
2:L:2427:ARG:HG2	2:L:2431:ARG:HD2	1.83	0.60
2:C:394:GLN:HG3	2:C:397:LEU:HD12	1.83	0.60
2:C:585:ILE:HA	2:C:613:HIS:H	1.66	0.60
2:C:1960:LYS:HG3	2:C:1965:PHE:HB3	1.84	0.60
2:L:2894:GLU:HG3	2:L:3973:PRO:HG2	1.84	0.60
2:L:3719:ILE:HD11	2:L:3740:ILE:HB	1.83	0.60
2:L:4036:LYS:HE2	2:L:4068:HIS:CD2	2.36	0.60
2:C:1427:SER:O	2:C:1431:LEU:N	2.21	0.60
2:L:632:GLU:OE1	2:L:632:GLU:N	2.25	0.60
2:L:892:LEU:HD13	2:L:941:MET:HG3	1.84	0.60
2:L:1013:ILE:O	2:L:1017:ILE:HG13	2.02	0.60
2:L:2517:LEU:HD23	2:L:2520:ILE:HD12	1.84	0.60
2:L:2936:TYR:HB3	2:L:2940:ARG:NH2	2.17	0.60
2:L:3964:THR:HG22	2:L:4117:LEU:HD22	1.84	0.60
2:C:1592:MET:O	2:C:1596:VAL:HG13	2.02	0.60
2:C:1593:VAL:HA	2:C:1596:VAL:HG22	1.82	0.60
2:C:2958:LEU:HD11	2:C:4101:GLU:HG3	1.83	0.60
2:C:3447:VAL:O	2:C:3451:LEU:HG	2.02	0.60
2:L:27:ALA:CA	2:C:76:ILE:HD11	2.31	0.60
2:L:399:GLN:HB2	2:L:402:THR:HB	1.84	0.60
2:L:2350:LYS:HZ1	2:C:162:LEU:HD13	1.65	0.60
2:L:2958:LEU:HD11	2:L:4101:GLU:HG3	1.83	0.60
2:C:399:GLN:HB2	2:C:402:THR:HB	1.84	0.60
2:C:2091:HIS:CE1	2:C:2093:CYS:HG	2.19	0.60
2:C:3814:ASP:OD1	2:C:3818:ASN:ND2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3964:THR:HG22	2:C:4117:LEU:HD22	1.84	0.60
2:L:1564:SER:OG	2:L:1567:ILE:HD12	2.02	0.59
2:L:2575:PRO:HB2	2:L:2784:GLN:NE2	2.18	0.59
2:L:2855:VAL:O	2:L:2858:ILE:HG22	2.02	0.59
2:L:3633:ILE:HG23	2:L:3637:GLY:HA3	1.83	0.59
2:L:3814:ASP:OD1	2:L:3818:ASN:ND2	2.35	0.59
2:C:1013:ILE:O	2:C:1017:ILE:HG13	2.02	0.59
2:C:1064:TYR:CD1	2:C:1106:ILE:HD11	2.37	0.59
2:C:1715:GLU:OE1	2:C:1715:GLU:N	2.30	0.59
2:L:1820:VAL:O	2:L:1825:LEU:HD23	2.02	0.59
2:C:417:VAL:HA	2:C:420:VAL:HG12	1.85	0.59
2:C:1346:THR:O	2:C:1350:ASN:ND2	2.35	0.59
2:C:1718:ILE:O	2:C:1722:PHE:N	2.18	0.59
2:C:3183:ILE:HG13	2:C:3242:MET:SD	2.42	0.59
2:L:1185:HIS:O	2:L:1188:ILE:HG12	2.02	0.59
2:L:1743:MET:HE1	2:L:1774:MET:HG2	1.85	0.59
2:C:2575:PRO:HB2	2:C:2784:GLN:NE2	2.18	0.59
2:L:2877:SER:O	2:L:2881:LEU:HD12	2.03	0.59
2:C:2855:VAL:O	2:C:2858:ILE:HG22	2.02	0.59
2:C:892:LEU:HD13	2:C:941:MET:HG3	1.84	0.59
2:C:1564:SER:OG	2:C:1567:ILE:HD12	2.02	0.59
2:C:1820:VAL:O	2:C:1825:LEU:HD23	2.02	0.59
2:L:1104:LEU:HD11	2:L:1131:ILE:HA	1.83	0.59
2:C:2427:ARG:HG2	2:C:2431:ARG:HD2	1.83	0.59
2:L:848:LEU:HD13	2:L:851:ILE:HD11	1.82	0.59
2:C:241:ASP:HA	2:C:245:SER:HB2	1.85	0.59
2:C:3094:ASP:OD1	2:C:3192:LYS:NZ	2.31	0.59
1:R:6016:UNK:O	1:R:6018:UNK:N	2.32	0.59
2:L:417:VAL:HA	2:L:420:VAL:HG12	1.85	0.59
2:L:2897:LEU:HD23	2:L:3973:PRO:HB3	1.85	0.59
2:C:2873:PRO:HD3	2:C:2922:ARG:HH22	1.66	0.59
2:C:2894:GLU:HG3	2:C:3973:PRO:HG2	1.84	0.59
2:L:153:PHE:HD2	2:L:189:MET:HE3	1.68	0.59
2:L:394:GLN:HG3	2:L:397:LEU:HD12	1.83	0.59
2:L:3183:ILE:HG13	2:L:3242:MET:SD	2.42	0.59
2:L:3620:PRO:HD3	2:L:3638:LYS:HD3	1.84	0.59
2:C:1805:PHE:CE2	2:C:1820:VAL:HG13	2.38	0.59
2:C:2091:HIS:ND1	2:C:2093:CYS:SG	2.75	0.59
2:L:1592:MET:O	2:L:1596:VAL:HG13	2.02	0.59
2:L:1805:PHE:CE2	2:L:1820:VAL:HG13	2.38	0.59
2:C:2897:LEU:HD23	2:C:3973:PRO:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1198:LEU:HG	2:L:1200:GLY:H	1.68	0.58
2:L:1960:LYS:HG3	2:L:1965:PHE:HB3	1.84	0.58
2:L:3447:VAL:O	2:L:3451:LEU:HG	2.02	0.58
2:L:3503:VAL:HA	2:L:3506:LEU:HD13	1.85	0.58
2:C:2517:LEU:HD23	2:C:2520:ILE:HD12	1.84	0.58
2:C:3293:CYS:O	2:C:3296:GLN:HG3	2.03	0.58
2:L:4060:THR:HA	2:L:4063:GLU:OE1	2.03	0.58
2:C:1076:LEU:HD13	2:C:1124:ILE:HD13	1.84	0.58
2:L:1076:LEU:HD13	2:L:1124:ILE:HD13	1.84	0.58
2:L:2806:LYS:HG2	2:L:2857:CYS:HB2	1.85	0.58
2:C:153:PHE:HD2	2:C:189:MET:HE3	1.68	0.58
2:C:272:LEU:HD13	2:C:311:ALA:HB1	1.86	0.58
2:C:2806:LYS:HG2	2:C:2857:CYS:HB2	1.85	0.58
2:C:4060:THR:HA	2:C:4063:GLU:OE1	2.03	0.58
2:L:272:LEU:HD13	2:L:311:ALA:HB1	1.86	0.58
2:C:1743:MET:HE1	2:C:1774:MET:HG2	1.84	0.58
2:C:3130:GLN:HE22	2:C:3175:PRO:HD2	1.69	0.58
2:L:2266:ASN:OD1	2:L:2267:SER:N	2.37	0.58
2:C:2877:SER:O	2:C:2881:LEU:HD12	2.03	0.58
2:L:76:ILE:CD1	2:C:27:ALA:N	2.66	0.58
2:L:1937:ARG:HA	2:L:1940:TYR:CZ	2.38	0.58
2:C:2936:TYR:HB3	2:C:2940:ARG:NH2	2.17	0.58
2:C:3446:VAL:O	2:C:3450:MET:HG3	2.04	0.58
2:L:485:GLN:HB3	2:L:489:ARG:NH1	2.19	0.58
2:C:1937:ARG:HA	2:C:1940:TYR:CZ	2.38	0.58
2:C:2504:ASP:O	2:C:2508:GLN:NE2	2.35	0.58
2:C:3007:GLU:HB3	2:C:3257:LYS:HZ2	1.68	0.58
2:C:3646:LYS:HE2	2:C:3663:THR:HG22	1.85	0.58
2:L:76:ILE:HD11	2:C:27:ALA:CA	2.32	0.58
2:L:997:ASN:HA	2:L:1043:GLN:HG3	1.86	0.58
2:C:3929:MET:HB2	2:C:3938:ILE:HG23	1.85	0.58
2:L:3130:GLN:HE22	2:L:3175:PRO:HD2	1.69	0.58
2:C:663:ILE:HG13	2:C:664:SER:H	1.69	0.58
1:Q:6016:UNK:O	1:Q:6018:UNK:N	2.32	0.58
2:L:2303:LEU:HD23	2:L:2323:LEU:HD22	1.86	0.57
2:C:1198:LEU:HG	2:C:1200:GLY:H	1.68	0.57
2:L:1268:ASN:HD22	2:L:1340:ARG:NH1	2.02	0.57
2:L:1298:LEU:HD22	2:L:1371:VAL:HG11	1.87	0.57
2:C:485:GLN:HB3	2:C:489:ARG:NH1	2.19	0.57
2:C:3503:VAL:HA	2:C:3506:LEU:HD13	1.85	0.57
2:L:663:ILE:HG13	2:L:664:SER:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3293:CYS:O	2:L:3296:GLN:HG3	2.03	0.57
2:C:2438:ILE:HG23	2:C:2442:MET:HE3	1.86	0.57
2:C:3577:GLN:HB2	2:C:3630:ARG:HD3	1.86	0.57
2:L:241:ASP:HA	2:L:245:SER:HB2	1.85	0.57
2:C:1134:LEU:HA	2:C:1137:ILE:HD13	1.87	0.57
2:C:1268:ASN:HD22	2:C:1340:ARG:NH1	2.02	0.57
2:C:2266:ASN:OD1	2:C:2267:SER:N	2.37	0.57
2:C:3159:ARG:O	2:C:3163:THR:HG23	2.04	0.57
2:C:3620:PRO:HD3	2:C:3638:LYS:HD3	1.84	0.57
2:L:179:GLY:HA3	2:L:226:GLY:HA2	1.85	0.57
2:L:3929:MET:HB2	2:L:3938:ILE:HG23	1.85	0.57
2:C:3798:SER:C	2:C:3799:ARG:HD3	2.30	0.57
2:L:928:VAL:HA	2:L:931:CYS:SG	2.45	0.57
2:L:3341:LEU:HD22	2:L:3373:VAL:HG21	1.86	0.57
2:L:2438:ILE:HG23	2:L:2442:MET:HE3	1.86	0.57
2:L:3446:VAL:O	2:L:3450:MET:HG3	2.04	0.57
2:C:736:LEU:HD12	2:C:740:ILE:HG13	1.86	0.57
2:C:1298:LEU:HD22	2:C:1371:VAL:HG11	1.86	0.57
2:C:1338:VAL:O	2:C:1342:MET:HG2	2.04	0.57
2:C:2303:LEU:HD23	2:C:2323:LEU:HD22	1.86	0.57
2:C:3341:LEU:HD22	2:C:3373:VAL:HG21	1.86	0.57
2:L:1155:ARG:HD2	2:L:1157:PHE:H	1.70	0.57
2:L:3646:LYS:HE2	2:L:3663:THR:HG22	1.85	0.57
2:C:183:GLU:OE1	2:C:273:ARG:NH1	2.38	0.57
2:C:997:ASN:HA	2:C:1043:GLN:HG3	1.86	0.57
2:C:1369:MET:HE2	2:C:1415:LEU:HD21	1.87	0.57
2:C:1685:ASP:HB3	2:C:1688:LEU:HD13	1.87	0.57
2:L:3159:ARG:O	2:L:3163:THR:HG23	2.04	0.57
2:L:3577:GLN:HB2	2:L:3630:ARG:HD3	1.86	0.57
2:L:3924:HIS:HD2	2:L:3926:ASN:HB2	1.70	0.57
2:C:928:VAL:HA	2:C:931:CYS:SG	2.45	0.57
2:L:1685:ASP:HB3	2:L:1688:LEU:HD13	1.87	0.56
2:C:447:PRO:HG2	2:C:527:TYR:CE1	2.40	0.56
2:C:4045:CYS:HA	2:C:4048:LYS:HZ3	1.69	0.56
2:L:27:ALA:N	2:C:76:ILE:CD1	2.64	0.56
2:L:2577:PHE:H	2:L:2784:GLN:NE2	2.04	0.56
2:L:1338:VAL:O	2:L:1342:MET:HG2	2.04	0.56
2:L:1915:LEU:HD13	2:L:1951:VAL:HG21	1.88	0.56
2:L:2425:ARG:HB2	2:L:2464:HIS:CE1	2.41	0.56
2:C:179:GLY:HA3	2:C:226:GLY:HA2	1.85	0.56
2:C:859:LEU:O	2:C:867:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1750:LEU:HD22	2:L:1762:MET:CE	2.35	0.56
2:L:3701:ILE:HD11	2:L:3750:PHE:HE2	1.70	0.56
2:L:3798:SER:C	2:L:3799:ARG:HD3	2.30	0.56
2:L:859:LEU:O	2:L:867:ASN:ND2	2.38	0.56
2:L:3811:THR:HG22	2:L:3929:MET:HE1	1.87	0.56
2:C:1750:LEU:HD22	2:C:1762:MET:CE	2.35	0.56
2:C:4039:TYR:CE2	2:C:4041:ARG:HB2	2.40	0.56
2:L:1400:VAL:HA	2:L:1403:MET:HE2	1.88	0.56
2:L:4098:LEU:HB2	2:L:4103:GLN:OE1	2.06	0.56
2:C:1794:GLN:HE22	2:C:1833:LEU:HD13	1.70	0.56
2:C:3610:TYR:HE1	2:C:3612:ARG:CZ	2.19	0.56
2:C:3632:PHE:HZ	2:C:3675:LYS:HB2	1.70	0.56
2:C:4098:LEU:HB2	2:C:4103:GLN:OE1	2.06	0.56
2:L:183:GLU:OE1	2:L:273:ARG:NH1	2.38	0.56
2:L:1794:GLN:HE22	2:L:1833:LEU:HD13	1.70	0.56
2:L:3094:ASP:OD1	2:L:3192:LYS:NZ	2.31	0.56
2:L:4039:TYR:CE2	2:L:4041:ARG:HB2	2.40	0.56
2:C:913:ARG:NH2	2:C:916:GLU:OE1	2.39	0.56
2:C:4125:GLU:HG3	2:C:4127:TRP:CE2	2.41	0.56
2:L:52:ALA:HB2	2:L:99:LYS:HE3	1.88	0.56
2:L:1743:MET:HA	2:L:1746:PHE:HD1	1.70	0.56
2:L:3610:TYR:HE1	2:L:3612:ARG:CZ	2.19	0.56
2:L:3960:PRO:HD2	2:L:4110:GLN:CD	2.30	0.56
2:C:1915:LEU:HD13	2:C:1951:VAL:HG21	1.88	0.56
2:C:3447:VAL:HB	2:C:3485:LYS:NZ	2.21	0.56
2:L:260:ILE:HG23	2:L:262:LEU:H	1.71	0.56
2:L:1348:LEU:HD21	2:L:1359:LEU:HD21	1.87	0.56
2:L:1928:ALA:O	2:L:1937:ARG:NH2	2.33	0.56
2:L:3629:ARG:NH2	2:L:3630:ARG:O	2.38	0.56
2:C:1191:PHE:O	2:C:1195:VAL:HG13	2.06	0.56
2:C:2425:ARG:HB2	2:C:2464:HIS:CE1	2.41	0.56
2:L:399:GLN:OE1	2:L:406:ARG:NH1	2.39	0.56
2:L:447:PRO:HG2	2:L:527:TYR:CE1	2.40	0.56
2:L:630:CYS:HB2	2:L:634:LEU:HD23	1.88	0.56
2:L:913:ARG:HH11	2:L:2803:ILE:HD13	1.71	0.56
2:L:3424:LEU:O	2:L:3427:GLU:N	2.39	0.56
2:C:52:ALA:HB2	2:C:99:LYS:HE3	1.88	0.56
2:C:399:GLN:OE1	2:C:406:ARG:NH1	2.39	0.56
2:C:2402:LEU:O	2:C:2404:ARG:NH2	2.39	0.56
2:C:2577:PHE:H	2:C:2784:GLN:NE2	2.04	0.56
2:C:3629:ARG:NH2	2:C:3630:ARG:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3701:ILE:HD11	2:C:3750:PHE:HE2	1.70	0.56
2:L:736:LEU:HD12	2:L:740:ILE:HG13	1.86	0.55
2:L:913:ARG:NH2	2:L:916:GLU:OE1	2.39	0.55
2:L:1369:MET:HE2	2:L:1415:LEU:HD21	1.87	0.55
2:C:1348:LEU:HD21	2:C:1359:LEU:HD21	1.87	0.55
2:C:3085:GLU:OE1	2:C:3085:GLU:N	2.32	0.55
2:C:3811:THR:HG22	2:C:3929:MET:HE1	1.88	0.55
2:C:3960:PRO:HD2	2:C:4110:GLN:CD	2.30	0.55
2:L:3093:GLN:NE2	2:C:2492:ASP:HB2	2.21	0.55
2:L:3632:PHE:HZ	2:L:3675:LYS:HB2	1.70	0.55
2:L:4045:CYS:HA	2:L:4048:LYS:HZ3	1.71	0.55
2:C:260:ILE:HG23	2:C:262:LEU:H	1.71	0.55
2:L:1134:LEU:HA	2:L:1137:ILE:HD13	1.87	0.55
2:L:2402:LEU:O	2:L:2404:ARG:NH2	2.39	0.55
2:L:3447:VAL:HB	2:L:3485:LYS:NZ	2.21	0.55
2:C:1188:ILE:HD12	2:C:1269:THR:HG21	1.89	0.55
2:L:1188:ILE:HD12	2:L:1269:THR:HG21	1.89	0.55
2:L:3271:ASP:OD1	2:L:3271:ASP:N	2.38	0.55
2:C:630:CYS:HB2	2:C:634:LEU:HD23	1.88	0.55
2:C:913:ARG:HH11	2:C:2803:ILE:HD13	1.71	0.55
2:C:1743:MET:HA	2:C:1746:PHE:HD1	1.71	0.55
2:C:1928:ALA:O	2:C:1937:ARG:NH2	2.33	0.55
2:C:3187:CYS:SG	2:C:3235:LYS:NZ	2.66	0.55
2:C:3334:TYR:HA	2:C:3337:ILE:HD12	1.88	0.55
2:C:3924:HIS:HD2	2:C:3926:ASN:HB2	1.70	0.55
2:C:3758:LEU:HD22	2:C:3803:ILE:HD11	1.89	0.55
2:L:1004:GLN:OE1	2:L:1004:GLN:N	2.26	0.55
2:L:2205:VAL:HG13	2:L:2208:ASP:HB2	1.89	0.55
2:C:439:VAL:O	2:C:443:ILE:HD12	2.07	0.55
2:C:752:LEU:HG	2:C:756:PHE:HE1	1.71	0.55
2:L:3173:MET:HE2	2:L:3173:MET:HA	1.87	0.55
2:C:3424:LEU:O	2:C:3427:GLU:N	2.39	0.55
2:C:3761:ASP:HA	2:C:3764:VAL:HG12	1.88	0.55
2:C:3837:CYS:SG	2:C:3838:GLU:N	2.80	0.55
2:C:3885:ARG:O	2:C:3889:ARG:HG3	2.07	0.55
2:L:866:ILE:O	2:L:869:ASN:ND2	2.32	0.55
2:L:1191:PHE:O	2:L:1195:VAL:HG13	2.06	0.55
2:L:2929:LEU:O	2:L:2932:SER:OG	2.18	0.55
2:L:3179:TRP:O	2:L:3183:ILE:HG12	2.07	0.55
2:C:3173:MET:HA	2:C:3173:MET:HE2	1.88	0.55
2:L:2354:ASN:CG	2:C:115:TYR:O	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1155:ARG:HD2	2:C:1157:PHE:H	1.70	0.55
2:C:1515:LEU:HB2	2:C:1519:PHE:CE2	2.42	0.55
2:C:1839:PHE:O	2:C:1843:ILE:HG12	2.07	0.55
2:C:2930:TYR:HA	2:C:2933:ILE:HG22	1.88	0.55
2:L:3334:TYR:HA	2:L:3337:ILE:HD12	1.88	0.55
2:L:3758:LEU:HD22	2:L:3803:ILE:HD11	1.89	0.55
2:L:4125:GLU:HG3	2:L:4127:TRP:CE2	2.41	0.55
2:C:134:LEU:HG	2:C:144:MET:HE3	1.88	0.55
2:C:931:CYS:HB2	2:C:984:TYR:HE2	1.72	0.55
2:C:3612:ARG:HG3	2:C:3799:ARG:HH12	1.72	0.55
2:C:3858:MET:SD	2:C:4119:ARG:HB2	2.47	0.55
2:L:1346:THR:O	2:L:1350:ASN:ND2	2.35	0.54
2:L:2091:HIS:ND1	2:L:2093:CYS:SG	2.75	0.54
2:L:2930:TYR:HA	2:L:2933:ILE:HG22	1.88	0.54
2:L:3885:ARG:O	2:L:3889:ARG:HG3	2.07	0.54
2:L:4089:ILE:HA	2:L:4092:GLN:HG3	1.89	0.54
2:C:132:ILE:HA	2:C:135:LEU:HD12	1.89	0.54
2:C:1775:GLU:O	2:C:1779:GLN:HG2	2.07	0.54
2:C:1951:VAL:HG13	2:C:1955:VAL:HG11	1.89	0.54
2:C:2929:LEU:O	2:C:2932:SER:OG	2.18	0.54
2:L:115:TYR:O	2:C:2354:ASN:CG	2.50	0.54
2:L:644:PRO:HG2	2:L:645:TRP:CD1	2.42	0.54
2:L:1515:LEU:HB2	2:L:1519:PHE:CE2	2.42	0.54
2:L:4056:PRO:HB2	2:L:4090:ARG:HH12	1.72	0.54
2:C:27:ALA:HB3	2:C:30:ALA:HB2	1.89	0.54
2:C:1400:VAL:HA	2:C:1403:MET:HE2	1.88	0.54
2:L:931:CYS:HB2	2:L:984:TYR:HE2	1.72	0.54
2:C:933:LEU:HD22	2:C:2797:VAL:HG21	1.89	0.54
2:L:1775:GLU:O	2:L:1779:GLN:HG2	2.07	0.54
2:C:1820:VAL:HG12	2:C:1824:LEU:HD12	1.89	0.54
2:C:2205:VAL:HG13	2:C:2208:ASP:HB2	1.89	0.54
2:L:134:LEU:HG	2:L:144:MET:HE3	1.88	0.54
2:L:1579:VAL:HG23	2:L:1580:LEU:HD23	1.89	0.54
2:L:1935:GLU:O	2:L:1938:ARG:HG2	2.08	0.54
2:L:3612:ARG:CZ	2:L:3799:ARG:HH22	2.21	0.54
2:C:3172:LYS:O	2:C:3783:GLN:NE2	2.40	0.54
2:L:877:ASP:OD1	2:L:3903:HIS:NE2	2.40	0.54
2:L:1491:ILE:HG23	2:L:1493:PRO:HD3	1.89	0.54
2:C:644:PRO:HG2	2:C:645:TRP:CD1	2.42	0.54
2:L:2216:LEU:HD21	2:L:2241:LEU:HD22	1.90	0.54
2:L:2513:GLU:OE2	2:L:2514:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3612:ARG:HG3	2:L:3799:ARG:HH12	1.72	0.54
2:C:1261:LEU:HD11	2:C:1340:ARG:HB2	1.90	0.54
2:C:3179:TRP:O	2:C:3183:ILE:HG12	2.07	0.54
2:L:439:VAL:O	2:L:443:ILE:HD12	2.07	0.54
2:L:3156:PRO:HA	2:L:3159:ARG:HE	1.73	0.54
2:L:3416:LEU:HD12	2:L:3419:PHE:HE1	1.73	0.54
2:L:3837:CYS:SG	2:L:3838:GLU:N	2.80	0.54
2:L:3858:MET:SD	2:L:4119:ARG:HB2	2.47	0.54
2:C:3471:ILE:HG12	2:C:3474:ARG:HH22	1.73	0.54
2:L:132:ILE:HA	2:L:135:LEU:HD12	1.89	0.54
2:L:162:LEU:HD13	2:C:2350:LYS:HZ1	1.72	0.54
2:L:1605:PHE:O	2:L:1608:ARG:NH2	2.41	0.54
2:L:1781:SER:O	2:L:1785:ILE:HG13	2.07	0.54
2:L:1839:PHE:O	2:L:1843:ILE:HG12	2.07	0.54
2:L:2492:ASP:HB2	2:C:3093:GLN:NE2	2.23	0.54
2:L:3065:ILE:HD13	2:L:3089:LEU:HD23	1.90	0.54
2:L:3172:LYS:O	2:L:3783:GLN:NE2	2.40	0.54
2:L:3761:ASP:HA	2:L:3764:VAL:HG12	1.88	0.54
2:C:1605:PHE:O	2:C:1608:ARG:NH2	2.41	0.54
2:C:3416:LEU:HD12	2:C:3419:PHE:HE1	1.73	0.54
2:C:4089:ILE:HA	2:C:4092:GLN:HG3	1.89	0.54
2:L:76:ILE:CG1	2:C:26:GLY:O	2.55	0.54
2:C:877:ASP:OD1	2:C:3903:HIS:NE2	2.40	0.54
2:C:897:PRO:HD2	2:C:2566:THR:HG23	1.90	0.54
2:C:937:MET:SD	2:C:941:MET:HE1	2.48	0.54
2:C:1069:HIS:HD2	2:C:3741:ARG:CZ	2.21	0.54
2:C:1935:GLU:O	2:C:1938:ARG:HG2	2.08	0.54
2:C:3666:LEU:HA	2:C:3669:LYS:HB2	1.90	0.54
2:C:3846:MET:HA	2:C:3846:MET:HE3	1.90	0.54
2:L:937:MET:SD	2:L:941:MET:HE1	2.48	0.53
2:L:1951:VAL:HG13	2:L:1955:VAL:HG11	1.89	0.53
2:L:752:LEU:HG	2:L:756:PHE:HE1	1.71	0.53
2:L:3700:GLU:HA	2:L:3718:ARG:HA	1.90	0.53
2:L:3846:MET:HA	2:L:3846:MET:HE3	1.90	0.53
2:C:453:MET:HA	2:C:456:VAL:HG12	1.91	0.53
2:C:575:ILE:O	2:C:579:LEU:HG	2.09	0.53
2:C:1014:LEU:HD23	2:C:1017:ILE:HD12	1.90	0.53
2:C:4056:PRO:HB2	2:C:4090:ARG:HH12	1.72	0.53
2:L:27:ALA:HB3	2:L:30:ALA:HB2	1.89	0.53
2:L:699:GLU:OE1	2:L:699:GLU:N	2.42	0.53
2:L:1014:LEU:HD23	2:L:1017:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3271:ASP:N	2:C:3271:ASP:OD1	2.38	0.53
2:L:26:GLY:CA	2:C:76:ILE:HD12	2.39	0.53
2:L:714:VAL:HG11	2:L:732:PHE:HE2	1.72	0.53
2:L:3471:ILE:HA	2:L:3474:ARG:NH2	2.23	0.53
2:L:3471:ILE:HG12	2:L:3474:ARG:HH22	1.73	0.53
2:L:4068:HIS:O	2:L:4069:GLU:HG3	2.09	0.53
2:C:714:VAL:HG11	2:C:732:PHE:HE2	1.72	0.53
2:C:1579:VAL:HG23	2:C:1580:LEU:HD23	1.89	0.53
2:C:3471:ILE:HA	2:C:3474:ARG:NH2	2.23	0.53
2:L:575:ILE:O	2:L:579:LEU:HG	2.09	0.53
2:C:651:TYR:O	2:C:655:LEU:HG	2.09	0.53
2:C:1037:LEU:HD23	2:C:1085:ILE:HG23	1.91	0.53
2:C:1781:SER:O	2:C:1785:ILE:HG13	2.07	0.53
2:C:4068:HIS:O	2:C:4069:GLU:HG3	2.09	0.53
2:L:342:MET:HG3	2:L:343:GLU:OE1	2.09	0.53
2:L:752:LEU:HD23	2:L:792:ILE:HD12	1.91	0.53
2:L:889:GLU:HA	2:L:3889:ARG:HH11	1.74	0.53
2:L:1679:LEU:HG	2:L:1717:LEU:HD11	1.91	0.53
2:L:1874:TYR:CD2	2:L:1944:ALA:HA	2.44	0.53
2:L:2461:PHE:HA	2:L:2464:HIS:HB3	1.91	0.53
2:L:3666:LEU:HA	2:L:3669:LYS:HB2	1.90	0.53
2:C:3612:ARG:CZ	2:C:3799:ARG:HH22	2.20	0.53
2:C:3700:GLU:HA	2:C:3718:ARG:HA	1.90	0.53
2:L:651:TYR:O	2:L:655:LEU:HG	2.09	0.53
2:L:933:LEU:HD22	2:L:2797:VAL:HG21	1.89	0.53
2:L:2435:CYS:HA	2:L:2438:ILE:HD12	1.90	0.53
2:L:4045:CYS:HA	2:L:4048:LYS:NZ	2.24	0.53
2:C:3744:ASP:OD1	2:C:3745:GLU:N	2.42	0.53
2:L:453:MET:HA	2:L:456:VAL:HG12	1.91	0.53
2:C:752:LEU:HD23	2:C:792:ILE:HD12	1.90	0.53
2:C:1491:ILE:HG23	2:C:1493:PRO:HD3	1.89	0.53
2:C:2513:GLU:OE2	2:C:2514:ASN:ND2	2.41	0.53
2:L:26:GLY:O	2:C:76:ILE:CG1	2.54	0.53
2:L:1069:HIS:HD2	2:L:3741:ARG:CZ	2.21	0.53
2:L:2327:LEU:HD23	2:L:2371:PHE:HB3	1.91	0.53
2:C:1004:GLN:OE1	2:C:1004:GLN:N	2.26	0.53
2:L:1037:LEU:HD23	2:L:1085:ILE:HG23	1.91	0.52
2:L:1261:LEU:HD11	2:L:1340:ARG:HB2	1.90	0.52
2:L:1266:CYS:O	2:L:1269:THR:HG22	2.10	0.52
2:L:1874:TYR:HD2	2:L:1944:ALA:HA	1.74	0.52
2:L:2321:GLU:HG3	2:L:2366:LYS:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3374:ILE:HB	2:L:3378:TYR:CE2	2.44	0.52
2:C:466:LEU:HB2	2:C:560:LEU:HD12	1.91	0.52
2:C:889:GLU:HA	2:C:3889:ARG:HH11	1.74	0.52
2:C:3156:PRO:HA	2:C:3159:ARG:HE	1.73	0.52
2:C:3374:ILE:HB	2:C:3378:TYR:CE2	2.44	0.52
2:L:770:LEU:O	2:L:854:ARG:NH1	2.43	0.52
2:L:2376:ASP:OD1	2:L:2376:ASP:N	2.42	0.52
2:L:3141:PHE:O	2:L:3145:ILE:HG12	2.10	0.52
2:C:1679:LEU:HG	2:C:1717:LEU:HD11	1.91	0.52
2:C:3558:ILE:O	2:C:3562:LEU:N	2.42	0.52
2:C:4045:CYS:HA	2:C:4048:LYS:NZ	2.24	0.52
2:L:3275:SER:O	2:L:3278:GLN:HG2	2.10	0.52
2:C:183:GLU:HA	2:C:232:CYS:SG	2.49	0.52
2:C:2216:LEU:HD21	2:C:2241:LEU:HD22	1.90	0.52
2:C:2327:LEU:HD23	2:C:2371:PHE:HB3	1.90	0.52
2:C:2376:ASP:OD1	2:C:2376:ASP:N	2.42	0.52
2:C:3236:PHE:O	2:C:3240:MET:HG2	2.10	0.52
2:C:3919:GLY:O	2:C:3946:PHE:N	2.42	0.52
2:C:3948:SER:HB2	2:C:4016:PHE:CZ	2.45	0.52
2:L:421:LEU:HG	2:L:464:VAL:HG13	1.92	0.52
2:L:1820:VAL:HG12	2:L:1824:LEU:HD12	1.89	0.52
2:L:2895:GLU:HA	2:L:2898:LEU:HD13	1.92	0.52
2:L:3558:ILE:O	2:L:3562:LEU:N	2.42	0.52
2:C:38:LEU:HD22	2:C:65:LEU:HD21	1.90	0.52
2:C:352:VAL:HG11	2:C:1733:THR:HG23	1.91	0.52
2:C:770:LEU:O	2:C:854:ARG:NH1	2.42	0.52
2:C:2553:HIS:HB3	2:C:2557:LEU:HD23	1.92	0.52
2:L:774:GLU:O	2:L:778:ILE:HG12	2.09	0.52
2:L:1038:LYS:HZ1	2:L:1039:TRP:CD1	2.28	0.52
2:L:3128:LYS:HE2	2:L:3128:LYS:HA	1.92	0.52
2:C:1874:TYR:CD2	2:C:1944:ALA:HA	2.43	0.52
2:L:3294:SER:OG	2:L:3344:GLU:OE1	2.27	0.52
2:L:3744:ASP:OD1	2:L:3745:GLU:N	2.42	0.52
2:C:2586:PHE:HA	2:C:2777:HIS:CD2	2.45	0.52
2:L:897:PRO:HD2	2:L:2566:THR:HG23	1.90	0.52
2:C:774:GLU:O	2:C:778:ILE:HG12	2.09	0.52
2:C:2435:CYS:HA	2:C:2438:ILE:HD12	1.90	0.52
2:C:2461:PHE:HA	2:C:2464:HIS:HB3	1.91	0.52
2:C:2895:GLU:HA	2:C:2898:LEU:HD13	1.91	0.52
2:C:2938:VAL:O	2:C:2942:ILE:HG13	2.10	0.52
2:C:3065:ILE:HD13	2:C:3089:LEU:HD23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3239:LYS:O	2:L:3242:MET:HB3	2.10	0.52
2:C:447:PRO:HG2	2:C:527:TYR:HE1	1.75	0.52
2:C:3141:PHE:O	2:C:3145:ILE:HG12	2.10	0.52
2:C:3275:SER:O	2:C:3278:GLN:HG2	2.10	0.52
2:C:3294:SER:OG	2:C:3344:GLU:OE1	2.27	0.52
2:L:466:LEU:HB2	2:L:560:LEU:HD12	1.91	0.52
2:L:908:ASP:O	2:L:911:LEU:HG	2.10	0.52
2:L:1500:LEU:HD12	2:L:1501:PRO:HD2	1.91	0.52
2:L:1782:PHE:HA	2:L:1785:ILE:HD12	1.91	0.52
2:L:3107:ILE:HD13	2:L:3135:LEU:HD23	1.91	0.52
2:C:342:MET:HG3	2:C:343:GLU:OE1	2.09	0.52
2:C:699:GLU:OE1	2:C:699:GLU:N	2.42	0.52
2:C:1009:LEU:O	2:C:1013:ILE:HG12	2.10	0.52
2:C:3128:LYS:HA	2:C:3128:LYS:HE2	1.92	0.52
2:C:3421:ASP:OD1	2:C:3450:MET:HE3	2.10	0.52
2:C:490:ILE:HG23	2:C:527:TYR:HD2	1.75	0.52
2:C:1500:LEU:HD12	2:C:1501:PRO:HD2	1.91	0.52
2:C:1782:PHE:HA	2:C:1785:ILE:HD12	1.91	0.52
2:L:447:PRO:HG2	2:L:527:TYR:HE1	1.75	0.51
2:L:3919:GLY:O	2:L:3946:PHE:N	2.42	0.51
2:C:1266:CYS:O	2:C:1269:THR:HG22	2.10	0.51
2:C:1439:PRO:O	2:C:1442:GLN:NE2	2.40	0.51
2:C:1743:MET:HE1	2:C:1774:MET:CG	2.40	0.51
2:C:3239:LYS:O	2:C:3242:MET:HB3	2.10	0.51
2:L:183:GLU:HA	2:L:232:CYS:SG	2.49	0.51
2:L:524:TYR:HA	2:L:527:TYR:CG	2.45	0.51
2:L:2586:PHE:HA	2:L:2777:HIS:CD2	2.45	0.51
2:C:908:ASP:O	2:C:911:LEU:HG	2.10	0.51
2:C:1874:TYR:HD2	2:C:1944:ALA:HA	1.74	0.51
2:C:2321:GLU:HG3	2:C:2366:LYS:HD2	1.91	0.51
2:C:2813:PHE:CD1	2:C:2817:LEU:HD23	2.46	0.51
2:L:446:PHE:CD1	2:L:530:LEU:HD12	2.46	0.51
2:L:582:THR:HB	2:L:584:GLU:OE1	2.10	0.51
2:L:1427:SER:O	2:L:1431:LEU:N	2.21	0.51
2:L:1757:MET:O	2:L:1760:GLU:HG3	2.11	0.51
2:L:2859:GLN:O	2:L:2862:SER:OG	2.26	0.51
2:L:3889:ARG:HH21	2:L:3889:ARG:HG2	1.76	0.51
2:C:440:VAL:HG11	2:C:489:ARG:HH11	1.75	0.51
2:C:446:PHE:CD1	2:C:530:LEU:HD12	2.46	0.51
2:C:2859:GLN:O	2:C:2862:SER:OG	2.26	0.51
2:L:287:LEU:HD12	2:L:329:LYS:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:440:VAL:CG1	2:L:489:ARG:HH11	2.24	0.51
2:L:3328:ILE:HD11	2:L:3412:ALA:HB2	1.93	0.51
2:L:3681:LYS:HE3	2:L:3724:GLU:HA	1.92	0.51
2:C:287:LEU:HD12	2:C:329:LYS:HE2	1.92	0.51
2:C:414:LEU:HD13	2:C:442:GLN:NE2	2.26	0.51
2:C:1757:MET:O	2:C:1760:GLU:HG3	2.10	0.51
2:C:3681:LYS:HE3	2:C:3724:GLU:HA	1.92	0.51
2:C:3913:ILE:O	2:C:3917:ILE:HG12	2.10	0.51
2:L:38:LEU:HD22	2:L:65:LEU:HD21	1.91	0.51
2:L:414:LEU:HD13	2:L:442:GLN:HE21	1.75	0.51
2:C:153:PHE:CD2	2:C:189:MET:HE3	2.46	0.51
2:C:3948:SER:HA	2:C:3951:GLN:OE1	2.11	0.51
2:L:352:VAL:HG11	2:L:1733:THR:HG23	1.90	0.51
2:L:1009:LEU:O	2:L:1013:ILE:HG12	2.10	0.51
2:L:2553:HIS:HB3	2:L:2557:LEU:HD23	1.92	0.51
2:L:2938:VAL:O	2:L:2942:ILE:HG13	2.10	0.51
2:L:3236:PHE:O	2:L:3240:MET:HG2	2.10	0.51
2:L:3913:ILE:O	2:L:3917:ILE:HG12	2.10	0.51
2:C:405:ASP:O	2:C:408:TYR:N	2.27	0.51
2:C:1038:LYS:HZ1	2:C:1039:TRP:CD1	2.29	0.51
2:C:3475:TYR:N	2:C:3476:PRO:HD2	2.26	0.51
2:C:3880:ALA:HB1	2:C:3969:ASN:HD21	1.76	0.51
2:L:1134:LEU:O	2:L:1138:ILE:HG12	2.11	0.51
2:L:2834:GLN:O	2:L:2837:LEU:HG	2.11	0.51
2:L:3358:ARG:O	2:L:3358:ARG:HD3	2.11	0.51
2:L:3735:PRO:HB2	2:L:3751:LEU:HD11	1.93	0.51
2:L:3948:SER:HB2	2:L:4016:PHE:CZ	2.45	0.51
2:C:414:LEU:HD13	2:C:442:GLN:HE21	1.75	0.51
2:C:440:VAL:CG1	2:C:489:ARG:HH11	2.24	0.51
2:C:2364:LEU:HA	2:C:2367:VAL:HG12	1.93	0.51
2:C:2834:GLN:O	2:C:2837:LEU:HG	2.11	0.51
2:C:3000:ASP:OD1	2:C:3043:TYR:OH	2.20	0.51
2:C:3328:ILE:HD11	2:C:3412:ALA:HB2	1.93	0.51
2:C:3842:TRP:O	2:C:3842:TRP:HD1	1.94	0.51
2:C:3869:THR:HA	2:C:3872:ARG:HG2	1.93	0.51
2:L:3842:TRP:O	2:L:3842:TRP:HD1	1.94	0.51
2:C:1134:LEU:O	2:C:1138:ILE:HG12	2.11	0.51
2:C:1922:ALA:HA	2:C:1925:GLU:HB2	1.93	0.51
2:C:3568:ILE:O	2:C:3572:ILE:HG12	2.10	0.51
2:L:153:PHE:CD2	2:L:189:MET:HE3	2.46	0.51
2:L:1743:MET:HE1	2:L:1774:MET:CG	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2813:PHE:CD1	2:L:2817:LEU:HD23	2.46	0.51
2:L:3326:GLN:HA	2:L:3329:LEU:HG	1.93	0.51
2:L:3421:ASP:OD1	2:L:3450:MET:HE3	2.10	0.51
2:L:3578:LEU:HD23	2:L:3752:VAL:HG21	1.92	0.51
2:C:421:LEU:HG	2:C:464:VAL:HG13	1.92	0.51
2:C:1270:PHE:HB3	2:C:1276:VAL:HB	1.93	0.51
2:C:1670:GLU:HA	2:C:1673:THR:HG22	1.92	0.51
2:L:490:ILE:HG23	2:L:527:TYR:HD2	1.75	0.51
2:L:1568:ASN:O	2:L:1572:LEU:HG	2.11	0.51
2:L:2418:LYS:O	2:L:2420:PHE:N	2.38	0.51
2:L:3568:ILE:O	2:L:3572:ILE:HG12	2.10	0.51
2:L:3841:ASP:O	2:L:3844:THR:OG1	2.21	0.51
2:L:3880:ALA:HB1	2:L:3969:ASN:HD21	1.76	0.51
2:C:3107:ILE:HD13	2:C:3135:LEU:HD23	1.91	0.51
2:C:3141:PHE:CE1	2:C:3145:ILE:HD11	2.46	0.51
2:L:162:LEU:HD13	2:C:2350:LYS:HZ2	1.75	0.50
2:L:1270:PHE:HB3	2:L:1276:VAL:HB	1.93	0.50
2:L:1670:GLU:HA	2:L:1673:THR:HG22	1.92	0.50
2:L:3000:ASP:OD1	2:L:3043:TYR:OH	2.20	0.50
2:L:3619:ASP:HB2	2:L:3620:PRO:HD2	1.93	0.50
2:C:1708:GLU:O	2:C:1712:ARG:HG2	2.10	0.50
2:C:3601:VAL:HA	2:C:3604:LYS:HG2	1.93	0.50
2:C:3619:ASP:HB2	2:C:3620:PRO:HD2	1.93	0.50
2:L:176:GLU:HG3	2:L:222:GLY:HA2	1.93	0.50
2:L:1708:GLU:O	2:L:1712:ARG:HG2	2.10	0.50
2:L:1757:MET:O	2:L:1761:LEU:HG	2.11	0.50
2:L:2364:LEU:HA	2:L:2367:VAL:HG12	1.93	0.50
2:C:524:TYR:HA	2:C:527:TYR:CG	2.45	0.50
2:C:3578:LEU:HD23	2:C:3752:VAL:HG21	1.92	0.50
2:C:3841:ASP:O	2:C:3844:THR:OG1	2.21	0.50
2:L:414:LEU:HD13	2:L:442:GLN:NE2	2.26	0.50
2:L:649:PHE:O	2:L:653:LEU:HD23	2.12	0.50
2:L:734:LEU:HD11	2:L:752:LEU:HD13	1.93	0.50
2:C:3130:GLN:NE2	2:C:3175:PRO:HD2	2.27	0.50
2:C:3822:GLN:O	2:C:3826:ALA:N	2.37	0.50
2:C:3839:TYR:HB3	2:C:4122:GLU:HG3	1.93	0.50
2:L:2359:LYS:HD2	2:L:2361:ILE:HB	1.94	0.50
2:C:582:THR:HB	2:C:584:GLU:OE1	2.10	0.50
2:C:1335:CYS:O	2:C:1339:VAL:HG22	2.12	0.50
2:C:3238:MET:HE1	2:C:3239:LYS:HG3	1.94	0.50
2:L:992:ILE:HD11	2:L:1036:PHE:CD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1005:ASP:OD1	2:L:1006:THR:N	2.45	0.50
2:L:3601:VAL:HA	2:L:3604:LYS:HG2	1.93	0.50
2:C:3944:HIS:HB3	2:C:4016:PHE:HE1	1.76	0.50
2:C:460:ALA:O	2:C:464:VAL:HG23	2.12	0.50
2:C:3889:ARG:HG2	2:C:3889:ARG:HH21	1.76	0.50
2:L:35:ILE:HG12	2:L:81:CYS:SG	2.52	0.50
2:L:460:ALA:O	2:L:464:VAL:HG23	2.12	0.50
2:L:2828:GLU:O	2:L:2832:ILE:HG12	2.12	0.50
2:L:3141:PHE:CE1	2:L:3145:ILE:HD11	2.46	0.50
2:L:3475:TYR:N	2:L:3476:PRO:HD2	2.26	0.50
2:L:3851:ASP:O	2:L:3855:TYR:N	2.44	0.50
2:C:734:LEU:HD11	2:C:752:LEU:HD13	1.93	0.50
2:C:3446:VAL:HA	2:C:3449:LYS:HE2	1.93	0.50
2:C:3662:ILE:HG22	2:C:3665:MET:HE3	1.94	0.50
2:L:2190:VAL:HG13	2:L:2237:ILE:HG12	1.94	0.50
2:L:2440:TYR:O	2:L:2443:MET:HE3	2.12	0.50
2:L:3069:MET:HE3	2:L:3075:LYS:HE3	1.94	0.50
2:L:3238:MET:HE1	2:L:3239:LYS:HG3	1.94	0.50
2:L:3869:THR:HA	2:L:3872:ARG:HG2	1.93	0.50
2:C:176:GLU:HG3	2:C:222:GLY:HA2	1.93	0.50
2:C:217:LEU:HD11	2:C:260:ILE:HG22	1.93	0.50
2:C:1976:LEU:HD22	2:C:2141:ASN:HB3	1.94	0.50
2:C:2424:MET:SD	2:C:2435:CYS:HB3	2.52	0.50
2:C:2440:TYR:O	2:C:2443:MET:HE3	2.12	0.50
2:L:3948:SER:HA	2:L:3951:GLN:OE1	2.11	0.50
2:C:992:ILE:HD11	2:C:1036:PHE:CD1	2.42	0.50
2:C:3735:PRO:HB2	2:C:3751:LEU:HD11	1.93	0.50
2:L:982:GLN:NE2	2:L:2589:TYR:HB3	2.27	0.49
2:L:1976:LEU:HD22	2:L:2141:ASN:HB3	1.94	0.49
2:L:3130:GLN:NE2	2:L:3175:PRO:HD2	2.27	0.49
2:C:2586:PHE:HA	2:C:2777:HIS:HD2	1.77	0.49
2:C:3358:ARG:O	2:C:3358:ARG:HD3	2.11	0.49
2:L:462:VAL:HG13	2:L:560:LEU:HD11	1.93	0.49
2:L:1334:LYS:O	2:L:1338:VAL:HG13	2.11	0.49
2:L:2514:ASN:HB2	2:L:2517:LEU:HB2	1.94	0.49
2:L:3701:ILE:HG23	2:L:3704:GLN:HE22	1.77	0.49
2:C:982:GLN:NE2	2:C:2589:TYR:HB3	2.27	0.49
2:C:1271:ILE:HA	2:C:1276:VAL:O	2.12	0.49
2:C:1757:MET:O	2:C:1761:LEU:HG	2.12	0.49
2:C:1805:PHE:HE2	2:C:1816:ARG:O	1.95	0.49
2:C:2469:CYS:O	2:C:2473:MET:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3326:GLN:HA	2:C:3329:LEU:HG	1.93	0.49
2:C:3851:ASP:O	2:C:3855:TYR:N	2.44	0.49
2:L:336:ASN:OD1	2:L:340:TYR:OH	2.23	0.49
2:L:704:PHE:O	2:L:708:VAL:HG23	2.12	0.49
2:L:1335:CYS:O	2:L:1339:VAL:HG22	2.12	0.49
2:L:3107:ILE:O	2:L:3111:MET:HG3	2.12	0.49
2:L:3247:ARG:HD2	2:L:3286:CYS:SG	2.53	0.49
2:L:3944:HIS:HB3	2:L:4016:PHE:HE1	1.76	0.49
2:L:993:HIS:ND1	2:L:997:ASN:OD1	2.46	0.49
2:L:1960:LYS:HD2	2:L:2125:TRP:HB3	1.95	0.49
2:L:2779:ASP:OD1	2:L:2780:LEU:N	2.43	0.49
2:L:3233:SER:HB2	2:L:3272:TRP:HZ2	1.78	0.49
2:L:3596:LEU:HD11	2:L:3604:LYS:HA	1.95	0.49
2:C:1334:LYS:O	2:C:1338:VAL:HG13	2.11	0.49
2:C:3291:GLN:O	2:C:3296:GLN:HG2	2.13	0.49
2:C:3374:ILE:HG13	2:C:3375:ALA:H	1.78	0.49
2:L:540:MET:N	2:L:540:MET:SD	2.85	0.49
2:L:1813:SER:OG	2:L:1868:THR:HG21	2.13	0.49
2:L:1922:ALA:HA	2:L:1925:GLU:HB2	1.93	0.49
2:L:3374:ILE:HG13	2:L:3375:ALA:H	1.78	0.49
2:L:3379:GLN:HA	2:L:3382:PHE:CZ	2.48	0.49
2:L:3640:PHE:CG	2:L:3640:PHE:O	2.65	0.49
2:L:3842:TRP:CD1	2:L:3845:LYS:HB3	2.48	0.49
2:C:208:MET:HA	2:C:215:PRO:HB3	1.94	0.49
2:C:349:ILE:HG22	2:C:362:ALA:HA	1.94	0.49
2:C:462:VAL:HG13	2:C:560:LEU:HD11	1.93	0.49
2:C:540:MET:N	2:C:540:MET:SD	2.85	0.49
2:C:649:PHE:O	2:C:653:LEU:HD23	2.12	0.49
2:C:1568:ASN:O	2:C:1572:LEU:HG	2.11	0.49
2:C:2828:GLU:O	2:C:2832:ILE:HG12	2.12	0.49
2:C:3107:ILE:O	2:C:3111:MET:HG3	2.13	0.49
2:L:455:LEU:HD12	2:L:459:ARG:HH11	1.77	0.49
2:L:2424:MET:SD	2:L:2435:CYS:HB3	2.52	0.49
2:L:2448:PRO:HB3	2:L:2451:LEU:HB2	1.95	0.49
2:L:2586:PHE:HA	2:L:2777:HIS:HD2	1.77	0.49
2:L:3291:GLN:O	2:L:3296:GLN:HG2	2.13	0.49
2:C:70:ARG:NH1	2:C:106:GLU:O	2.46	0.49
2:C:2190:VAL:HG13	2:C:2237:ILE:HG12	1.94	0.49
2:C:3471:ILE:O	2:C:3474:ARG:HG2	2.13	0.49
2:L:774:GLU:OE2	2:L:854:ARG:NH1	2.34	0.49
2:L:1051:LYS:NZ	2:L:1053:PRO:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1335:CYS:HA	2:L:1338:VAL:HG22	1.94	0.49
2:L:2182:ILE:HD11	2:L:2219:LEU:HG	1.95	0.49
2:L:2443:MET:SD	2:L:2479:TRP:CE2	3.05	0.49
2:L:3446:VAL:HA	2:L:3449:LYS:HE2	1.93	0.49
2:L:3662:ILE:HG22	2:L:3665:MET:HE3	1.94	0.49
2:L:3951:GLN:HB2	2:L:4036:LYS:NZ	2.28	0.49
2:C:421:LEU:HD13	2:C:424:LEU:HD12	1.94	0.49
2:C:2801:ASP:HB3	2:C:2804:ILE:HG22	1.94	0.49
2:C:3233:SER:HB2	2:C:3272:TRP:HZ2	1.78	0.49
2:C:3951:GLN:HB2	2:C:4036:LYS:HZ2	1.78	0.49
2:L:76:ILE:HD12	2:C:26:GLY:CA	2.40	0.49
2:L:1439:PRO:O	2:L:1442:GLN:NE2	2.40	0.49
2:L:1958:GLU:O	2:L:1961:PHE:HB2	2.12	0.49
2:L:2320:ALA:HB3	2:L:2323:LEU:HB2	1.94	0.49
2:L:2469:CYS:O	2:L:2473:MET:HG3	2.13	0.49
2:L:3114:TYR:O	2:L:3117:ILE:HG22	2.13	0.49
2:C:2514:ASN:HB2	2:C:2517:LEU:HB2	1.94	0.49
2:C:3640:PHE:CG	2:C:3640:PHE:O	2.65	0.49
2:L:651:TYR:CE1	2:L:655:LEU:HD21	2.48	0.49
2:L:1271:ILE:HA	2:L:1276:VAL:O	2.12	0.49
2:C:1335:CYS:HA	2:C:1338:VAL:HG22	1.94	0.49
2:C:2165:LEU:O	2:C:2168:LEU:HG	2.13	0.49
2:C:2320:ALA:HB3	2:C:2323:LEU:HB2	1.94	0.49
2:C:2779:ASP:OD1	2:C:2780:LEU:N	2.43	0.49
2:C:3104:GLN:O	2:C:3108:GLN:HG2	2.13	0.49
2:C:3575:LEU:HB2	2:C:3800:LEU:HD21	1.95	0.49
2:C:3596:LEU:HD11	2:C:3604:LYS:HA	1.95	0.49
2:C:3817:LEU:HA	2:C:3820:MET:HE3	1.93	0.49
2:C:3842:TRP:CD1	2:C:3845:LYS:HB3	2.48	0.49
2:L:217:LEU:HD11	2:L:260:ILE:HG22	1.93	0.49
2:L:524:TYR:HA	2:L:527:TYR:HB2	1.95	0.49
2:L:1538:LEU:HB3	2:L:1555:HIS:CD2	2.48	0.49
2:L:2481:HIS:HA	2:L:2484:TYR:CE1	2.48	0.49
2:L:3442:TYR:O	2:L:3446:VAL:HG13	2.12	0.49
2:L:3471:ILE:O	2:L:3474:ARG:HG2	2.13	0.49
2:L:4057:ALA:HB2	2:L:4090:ARG:HH11	1.78	0.49
2:C:455:LEU:HD12	2:C:459:ARG:HH11	1.77	0.49
2:C:1958:GLU:O	2:C:1961:PHE:HB2	2.12	0.49
2:C:2359:LYS:HD2	2:C:2361:ILE:HB	1.94	0.49
2:C:2443:MET:SD	2:C:2479:TRP:CE2	3.05	0.49
2:C:2566:THR:HG21	2:C:2791:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3379:GLN:HA	2:C:3382:PHE:CZ	2.47	0.49
2:C:3701:ILE:HG23	2:C:3704:GLN:HE22	1.77	0.49
2:C:3828:TYR:OH	2:C:4127:TRP:CD1	2.66	0.49
2:L:421:LEU:HD13	2:L:424:LEU:HD12	1.93	0.48
2:L:1743:MET:HA	2:L:1746:PHE:CD1	2.48	0.48
2:L:1805:PHE:HE2	2:L:1816:ARG:O	1.95	0.48
2:L:2566:THR:HG21	2:L:2791:ILE:HG12	1.95	0.48
2:L:2843:PHE:HD2	2:L:2858:ILE:HD11	1.78	0.48
2:C:1282:LEU:HD21	2:C:1289:SER:HB3	1.95	0.48
2:C:1711:ARG:HD2	2:C:1761:LEU:HD11	1.95	0.48
2:C:1813:SER:OG	2:C:1868:THR:HG21	2.13	0.48
2:C:1960:LYS:HD2	2:C:2125:TRP:HB3	1.95	0.48
2:C:2418:LYS:O	2:C:2420:PHE:N	2.38	0.48
2:C:3442:TYR:O	2:C:3446:VAL:HG13	2.12	0.48
2:L:341:PHE:O	2:L:345:PHE:N	2.47	0.48
2:L:430:VAL:HG23	2:L:431:TYR:CD2	2.48	0.48
2:L:3183:ILE:HD12	2:L:3238:MET:SD	2.53	0.48
2:L:3608:LYS:O	2:L:3609:MET:HB2	2.14	0.48
2:L:3839:TYR:HB3	2:L:4122:GLU:HG3	1.94	0.48
2:L:3844:THR:HG22	2:L:3850:HIS:HB3	1.94	0.48
2:C:348:ILE:HG23	2:C:349:ILE:HG23	1.95	0.48
2:C:2481:HIS:HA	2:C:2484:TYR:CE1	2.48	0.48
2:C:3156:PRO:HB3	2:C:3159:ARG:HH11	1.78	0.48
2:C:3183:ILE:HD12	2:C:3238:MET:SD	2.53	0.48
2:C:3252:PHE:HB3	2:C:3287:ARG:HD3	1.96	0.48
2:C:3844:THR:HG22	2:C:3850:HIS:HB3	1.94	0.48
2:L:26:GLY:O	2:C:76:ILE:CD1	2.62	0.48
2:L:348:ILE:HG23	2:L:349:ILE:HG23	1.95	0.48
2:L:440:VAL:HG11	2:L:489:ARG:HH11	1.75	0.48
2:L:644:PRO:HG2	2:L:645:TRP:HD1	1.79	0.48
2:L:745:VAL:O	2:L:749:VAL:HG23	2.13	0.48
2:L:782:ARG:NH2	2:L:783:HIS:HB2	2.28	0.48
2:L:3104:GLN:O	2:L:3108:GLN:HG2	2.13	0.48
2:L:3633:ILE:O	2:L:3638:LYS:N	2.47	0.48
2:L:3920:ILE:HG22	2:L:3923:ARG:HH22	1.78	0.48
2:C:524:TYR:HA	2:C:527:TYR:HB2	1.95	0.48
2:C:774:GLU:CD	2:C:854:ARG:HH12	2.20	0.48
2:C:1804:MET:O	2:C:1816:ARG:NH2	2.46	0.48
2:C:2843:PHE:HD2	2:C:2858:ILE:HD11	1.78	0.48
2:C:3100:LYS:CG	2:C:3104:GLN:HE22	2.26	0.48
2:C:3247:ARG:HD2	2:C:3286:CYS:SG	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3518:VAL:O	2:C:3522:THR:HG23	2.13	0.48
2:C:3920:ILE:HG22	2:C:3923:ARG:HH22	1.78	0.48
2:L:349:ILE:HG22	2:L:362:ALA:HA	1.94	0.48
2:L:1067:ALA:HB2	2:L:1107:TYR:HE1	1.78	0.48
2:L:1804:MET:O	2:L:1816:ARG:NH2	2.46	0.48
2:L:2451:LEU:HD23	2:L:2454:LEU:HD12	1.94	0.48
2:L:3085:GLU:OE1	2:L:3085:GLU:N	2.32	0.48
2:L:3100:LYS:CG	2:L:3104:GLN:HE22	2.26	0.48
2:L:3518:VAL:O	2:L:3522:THR:HG23	2.13	0.48
2:C:1005:ASP:OD1	2:C:1006:THR:N	2.45	0.48
2:C:1983:ASP:OD1	2:C:1983:ASP:N	2.46	0.48
2:L:1750:LEU:HD21	2:L:1758:LEU:HG	1.95	0.48
2:L:2404:ARG:NE	2:L:2441:LYS:HE3	2.26	0.48
2:L:3471:ILE:HG22	2:L:3475:TYR:HE2	1.79	0.48
2:L:3817:LEU:HA	2:L:3820:MET:HE3	1.94	0.48
2:C:430:VAL:HG23	2:C:431:TYR:CD2	2.48	0.48
2:C:569:VAL:HA	2:C:572:VAL:HG22	1.95	0.48
2:C:745:VAL:O	2:C:749:VAL:HG23	2.13	0.48
2:C:2182:ILE:HD11	2:C:2219:LEU:HG	1.95	0.48
2:C:3069:MET:HE3	2:C:3075:LYS:HE3	1.94	0.48
2:C:3100:LYS:HG2	2:C:3104:GLN:HE22	1.79	0.48
2:C:3134:ALA:O	2:C:3138:ILE:HG12	2.13	0.48
2:C:3596:LEU:HD11	2:C:3604:LYS:HD2	1.95	0.48
2:L:70:ARG:NH1	2:L:106:GLU:O	2.46	0.48
2:L:2165:LEU:O	2:L:2168:LEU:HG	2.13	0.48
2:L:2801:ASP:HB3	2:L:2804:ILE:HG22	1.94	0.48
2:L:3134:ALA:O	2:L:3138:ILE:HG12	2.13	0.48
2:C:35:ILE:HG12	2:C:81:CYS:SG	2.52	0.48
2:C:402:THR:HA	2:C:405:ASP:HB2	1.95	0.48
2:C:665:GLY:O	2:C:669:LEU:HG	2.13	0.48
2:C:1051:LYS:NZ	2:C:1053:PRO:O	2.45	0.48
2:C:2158:ARG:HD3	2:C:2158:ARG:H	1.79	0.48
2:C:2448:PRO:HB3	2:C:2451:LEU:HB2	1.95	0.48
2:L:476:ARG:HA	2:L:479:ILE:HG12	1.96	0.48
2:L:3575:LEU:HB2	2:L:3800:LEU:HD21	1.95	0.48
2:C:534:LEU:HB3	2:C:564:LEU:HD13	1.96	0.48
2:C:782:ARG:NH2	2:C:783:HIS:HB2	2.28	0.48
2:C:993:HIS:ND1	2:C:997:ASN:OD1	2.46	0.48
2:C:1067:ALA:HB2	2:C:1107:TYR:HE1	1.78	0.48
2:C:3329:LEU:O	2:C:3333:THR:HG23	2.13	0.48
2:C:3841:ASP:OD1	2:C:3842:TRP:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:208:MET:HA	2:L:215:PRO:HB3	1.94	0.48
2:L:566:ASP:OD2	2:L:1502:SER:HB3	2.14	0.48
2:L:3156:PRO:HB3	2:L:3159:ARG:HH11	1.78	0.48
2:L:3862:ALA:O	2:L:3863:ASN:ND2	2.42	0.48
2:C:2447:LYS:O	2:C:2449:VAL:N	2.46	0.48
2:C:2451:LEU:HD23	2:C:2454:LEU:HD12	1.95	0.48
2:C:4108:MET:HE2	2:C:4108:MET:HA	1.96	0.48
2:L:665:GLY:O	2:L:669:LEU:HG	2.13	0.48
2:L:1282:LEU:HD21	2:L:1289:SER:HB3	1.96	0.48
2:L:3100:LYS:HG2	2:L:3104:GLN:HE22	1.79	0.48
2:L:3596:LEU:HD11	2:L:3604:LYS:HD2	1.95	0.48
2:C:89:LEU:HA	2:C:92:PHE:HB3	1.96	0.48
2:C:188:GLU:HB3	2:C:189:MET:HG2	1.95	0.48
2:C:704:PHE:O	2:C:708:VAL:HG23	2.12	0.48
2:C:1072:ALA:HA	2:C:1075:ARG:NH2	2.28	0.48
2:C:1635:LYS:HA	2:C:1642:LYS:HE2	1.96	0.48
2:C:3114:TYR:O	2:C:3117:ILE:HG22	2.13	0.48
2:L:1260:LEU:HD21	2:L:1290:LEU:HD13	1.96	0.48
2:L:1711:ARG:HD2	2:L:1761:LEU:HD11	1.95	0.48
2:L:3329:LEU:O	2:L:3333:THR:HG23	2.13	0.48
2:L:3723:ASP:HB3	2:L:3739:ILE:HB	1.96	0.48
2:L:3828:TYR:OH	2:L:4127:TRP:CD1	2.66	0.48
2:C:403:GLY:HA2	2:C:407:VAL:HG23	1.95	0.48
2:C:1086:TYR:HA	2:C:1089:PHE:HB3	1.95	0.48
2:C:1260:LEU:HD21	2:C:1290:LEU:HD13	1.96	0.48
2:C:1560:TYR:CE2	2:C:1596:VAL:HG12	2.49	0.48
2:C:2262:GLY:HA3	2:C:2269:ASP:HB3	1.96	0.48
2:C:3951:GLN:HB2	2:C:4036:LYS:NZ	2.28	0.48
2:L:432:THR:N	2:L:433:PRO:HD2	2.29	0.47
2:L:1072:ALA:HA	2:L:1075:ARG:NH2	2.28	0.47
2:L:2262:GLY:HA3	2:L:2269:ASP:HB3	1.96	0.47
2:L:2464:HIS:O	2:L:2470:ARG:NH1	2.47	0.47
2:L:3465:PHE:CG	2:L:3466:PRO:HD3	2.49	0.47
2:L:4108:MET:HA	2:L:4108:MET:HE2	1.96	0.47
2:C:336:ASN:OD1	2:C:340:TYR:OH	2.23	0.47
2:C:1538:LEU:HB3	2:C:1555:HIS:CD2	2.48	0.47
2:L:35:ILE:HA	2:L:38:LEU:HD12	1.96	0.47
2:L:52:ALA:HA	2:L:99:LYS:HG2	1.97	0.47
2:L:1086:TYR:HA	2:L:1089:PHE:HB3	1.95	0.47
2:L:1180:GLN:OE1	2:L:1180:GLN:HA	2.14	0.47
2:L:1597:LEU:O	2:L:1601:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1774:MET:HE3	2:L:1777:LEU:HB2	1.96	0.47
2:L:3479:THR:OG1	2:L:3482:LEU:HB3	2.14	0.47
2:C:341:PHE:O	2:C:345:PHE:N	2.47	0.47
2:C:651:TYR:CE1	2:C:655:LEU:HD21	2.48	0.47
2:C:1597:LEU:O	2:C:1601:LEU:HG	2.14	0.47
2:C:1863:PHE:HA	2:C:1866:GLN:HG2	1.97	0.47
2:C:2464:HIS:O	2:C:2470:ARG:NH1	2.47	0.47
2:C:3181:ASP:O	2:C:3185:ASN:ND2	2.48	0.47
2:L:774:GLU:CD	2:L:854:ARG:HH12	2.20	0.47
2:L:939:MET:HE3	2:L:2783:ILE:HA	1.97	0.47
2:L:1828:LEU:HD12	2:L:1880:MET:HB3	1.96	0.47
2:L:2398:LEU:O	2:L:2434:VAL:HG11	2.14	0.47
2:L:3822:GLN:O	2:L:3826:ALA:N	2.38	0.47
2:L:3946:PHE:HZ	2:L:4002:MET:HG2	1.79	0.47
2:C:1679:LEU:HD12	2:C:1689:LYS:HD2	1.96	0.47
2:C:1743:MET:HA	2:C:1746:PHE:CD1	2.48	0.47
2:C:2398:LEU:O	2:C:2434:VAL:HG11	2.14	0.47
2:C:3470:GLN:CG	2:C:4004:VAL:HB	2.43	0.47
2:C:3479:THR:OG1	2:C:3482:LEU:HB3	2.15	0.47
2:C:3614:TYR:C	2:C:3616:ALA:H	2.22	0.47
2:C:3946:PHE:HZ	2:C:4002:MET:HG2	1.79	0.47
2:L:752:LEU:HD21	2:L:773:LEU:HD21	1.96	0.47
2:L:3252:PHE:HB3	2:L:3287:ARG:HD3	1.96	0.47
2:C:432:THR:N	2:C:433:PRO:HD2	2.29	0.47
2:C:620:PHE:CZ	2:C:624:ILE:HD11	2.50	0.47
2:C:2099:ALA:HA	2:C:2102:LYS:HB3	1.97	0.47
2:L:188:GLU:HB3	2:L:189:MET:HG2	1.95	0.47
2:L:1365:ASN:O	2:L:1368:LEU:HB3	2.14	0.47
2:L:1679:LEU:HD12	2:L:1689:LYS:HD2	1.96	0.47
2:L:3470:GLN:CG	2:L:4004:VAL:HB	2.43	0.47
2:L:3515:GLN:OE1	2:L:3515:GLN:N	2.48	0.47
2:C:35:ILE:HA	2:C:38:LEU:HD12	1.96	0.47
2:C:1365:ASN:O	2:C:1368:LEU:HB3	2.14	0.47
2:C:1828:LEU:HD12	2:C:1880:MET:HB3	1.96	0.47
2:C:2466:SER:O	2:C:2470:ARG:NH2	2.48	0.47
2:C:3633:ILE:O	2:C:3638:LYS:N	2.47	0.47
2:C:4057:ALA:HB2	2:C:4090:ARG:HH11	1.78	0.47
2:L:89:LEU:HA	2:L:92:PHE:HB3	1.96	0.47
2:L:402:THR:HA	2:L:405:ASP:HB2	1.95	0.47
2:L:405:ASP:O	2:L:408:TYR:N	2.27	0.47
2:L:1863:PHE:HA	2:L:1866:GLN:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:2350:LYS:HZ2	2:C:162:LEU:HD13	1.78	0.47
2:L:3841:ASP:OD1	2:L:3842:TRP:N	2.47	0.47
2:C:925:GLN:HE21	2:C:925:GLN:HB3	1.57	0.47
2:C:939:MET:HE3	2:C:2783:ILE:HA	1.96	0.47
2:L:314:SER:O	2:L:317:GLU:HG2	2.15	0.47
2:L:403:GLY:HA2	2:L:407:VAL:HG23	1.95	0.47
2:L:534:LEU:HB3	2:L:564:LEU:HD13	1.96	0.47
2:L:566:ASP:HA	2:L:569:VAL:HG12	1.97	0.47
2:L:569:VAL:HA	2:L:572:VAL:HG22	1.95	0.47
2:L:1338:VAL:HA	2:L:1341:ILE:HG12	1.97	0.47
2:L:1710:LEU:HA	2:L:1713:VAL:HG12	1.97	0.47
2:L:2169:LEU:HB3	2:L:2211:LEU:HD13	1.97	0.47
2:L:2466:SER:O	2:L:2470:ARG:NH2	2.48	0.47
2:L:3784:ARG:HB2	2:L:3786:LEU:CD1	2.45	0.47
2:C:52:ALA:HA	2:C:99:LYS:HG2	1.97	0.47
2:C:225:LYS:HD2	2:C:270:ALA:HB2	1.97	0.47
2:C:476:ARG:HA	2:C:479:ILE:HG12	1.96	0.47
2:C:729:CYS:O	2:C:733:LEU:HD23	2.15	0.47
2:C:745:VAL:HB	2:C:788:TYR:CE2	2.50	0.47
2:C:1631:SER:HB3	2:C:1634:ALA:HB3	1.97	0.47
2:C:1713:VAL:HA	2:C:1716:GLN:HG2	1.96	0.47
2:C:1750:LEU:HD21	2:C:1758:LEU:HG	1.95	0.47
2:C:1774:MET:HE3	2:C:1777:LEU:HB2	1.97	0.47
2:C:2087:GLU:OE2	2:C:2091:HIS:HD2	1.98	0.47
2:C:2095:ALA:HB3	2:C:2096:PRO:HD3	1.97	0.47
2:C:3723:ASP:HB3	2:C:3739:ILE:HB	1.96	0.47
2:L:162:LEU:O	2:L:165:LYS:HG3	2.15	0.47
2:L:2891:ARG:HH22	2:L:2895:GLU:HB2	1.80	0.47
2:L:4100:GLU:H	2:L:4100:GLU:CD	2.23	0.47
2:C:752:LEU:HD21	2:C:773:LEU:HD21	1.95	0.47
2:C:883:TYR:CE1	2:C:3120:LEU:HD11	2.49	0.47
2:C:1045:THR:HB	2:C:1048:GLN:HE22	1.80	0.47
2:C:1761:LEU:O	2:C:1765:VAL:HG23	2.15	0.47
2:L:2470:ARG:HA	2:L:2473:MET:SD	2.55	0.47
2:L:3181:ASP:O	2:L:3185:ASN:ND2	2.48	0.47
2:C:1180:GLN:OE1	2:C:1180:GLN:HA	2.14	0.47
2:C:3608:LYS:O	2:C:3609:MET:HB2	2.13	0.47
2:C:3784:ARG:HB2	2:C:3786:LEU:CD1	2.45	0.47
2:C:3862:ALA:O	2:C:3863:ASN:ND2	2.42	0.47
2:C:3889:ARG:HG2	2:C:3889:ARG:NH2	2.30	0.47
2:L:2158:ARG:H	2:L:2158:ARG:HD3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3187:CYS:SG	2:L:3235:LYS:NZ	2.66	0.47
2:L:3446:VAL:HA	2:L:3449:LYS:HG2	1.97	0.47
2:L:3821:SER:OG	2:L:3823:GLU:OE1	2.28	0.47
2:C:709:LYS:O	2:C:713:GLU:OE1	2.33	0.47
2:C:997:ASN:HD22	2:C:1043:GLN:CG	2.23	0.47
2:C:1839:PHE:CE2	2:C:1843:ILE:HD13	2.50	0.47
2:C:2404:ARG:NE	2:C:2441:LYS:HE3	2.26	0.47
2:C:3099:ALA:O	2:C:3103:ILE:HG12	2.15	0.47
2:C:3354:ASP:N	2:C:3354:ASP:OD1	2.48	0.47
2:L:883:TYR:CE1	2:L:3120:LEU:HD11	2.49	0.46
2:L:1839:PHE:CE2	2:L:1843:ILE:HD13	2.50	0.46
2:L:3450:MET:HE1	2:L:3454:LEU:HD11	1.97	0.46
2:C:1338:VAL:HA	2:C:1341:ILE:HG12	1.97	0.46
2:C:3471:ILE:HG22	2:C:3475:TYR:HE2	1.79	0.46
2:L:1631:SER:HB3	2:L:1634:ALA:HB3	1.97	0.46
2:L:1713:VAL:HA	2:L:1716:GLN:HG2	1.96	0.46
2:L:2099:ALA:HA	2:L:2102:LYS:HB3	1.97	0.46
2:C:162:LEU:O	2:C:165:LYS:HG3	2.15	0.46
2:C:566:ASP:HA	2:C:569:VAL:HG12	1.97	0.46
2:C:3465:PHE:CG	2:C:3466:PRO:HD3	2.50	0.46
2:L:745:VAL:HB	2:L:788:TYR:CE2	2.50	0.46
2:L:1560:TYR:CE2	2:L:1596:VAL:HG12	2.49	0.46
2:L:2451:LEU:HA	2:L:2454:LEU:HB2	1.97	0.46
2:C:70:ARG:HE	2:C:110:THR:HA	1.80	0.46
2:C:644:PRO:HG2	2:C:645:TRP:HD1	1.78	0.46
2:C:955:ALA:O	2:C:957:PRO:HD3	2.15	0.46
2:C:1709:GLU:H	2:C:1709:GLU:CD	2.23	0.46
2:C:2470:ARG:HA	2:C:2473:MET:SD	2.55	0.46
2:C:2891:ARG:HH22	2:C:2895:GLU:HB2	1.80	0.46
2:C:3493:TRP:CZ2	2:C:3710:LYS:HB3	2.50	0.46
2:L:168:ASP:OD1	2:L:218:PRO:HB2	2.15	0.46
2:L:620:PHE:CZ	2:L:624:ILE:HD11	2.50	0.46
2:L:750:PRO:O	2:L:754:MET:HG2	2.16	0.46
2:L:1761:LEU:O	2:L:1765:VAL:HG23	2.15	0.46
2:L:1764:GLU:HA	2:L:1767:CYS:SG	2.55	0.46
2:C:752:LEU:HG	2:C:756:PHE:CE1	2.50	0.46
2:C:2451:LEU:HA	2:C:2454:LEU:HB2	1.97	0.46
2:C:2813:PHE:HD1	2:C:2817:LEU:HD23	1.80	0.46
2:C:3515:GLN:OE1	2:C:3515:GLN:N	2.48	0.46
2:C:4100:GLU:H	2:C:4100:GLU:CD	2.23	0.46
2:L:729:CYS:O	2:L:733:LEU:HD23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1476:HIS:CD2	2:L:1478:SER:HB2	2.50	0.46
2:L:1790:SER:O	2:L:1793:THR:OG1	2.32	0.46
2:L:1817:GLN:HE22	2:L:1871:MET:CE	2.28	0.46
2:L:1983:ASP:OD1	2:L:1983:ASP:N	2.46	0.46
2:L:2165:LEU:HD23	2:L:2168:LEU:HD11	1.96	0.46
2:C:1290:LEU:HG	2:C:1294:VAL:HB	1.96	0.46
2:L:988:VAL:HA	2:L:991:LEU:HG	1.98	0.46
2:L:2095:ALA:HB3	2:L:2096:PRO:HD3	1.97	0.46
2:L:2813:PHE:HD1	2:L:2817:LEU:HD23	1.79	0.46
2:L:3856:MET:HE1	2:L:4072:PRO:HB2	1.98	0.46
2:C:55:THR:HA	2:C:59:PHE:HD1	1.81	0.46
2:C:566:ASP:OD2	2:C:1502:SER:HB3	2.14	0.46
2:C:1151:ARG:O	2:C:1163:LEU:HG	2.16	0.46
2:C:1331:ASN:HA	2:C:1334:LYS:NZ	2.31	0.46
2:L:76:ILE:CD1	2:C:26:GLY:O	2.63	0.46
2:L:955:ALA:O	2:L:957:PRO:HD3	2.15	0.46
2:L:1203:SER:HB3	2:L:1206:LEU:HB2	1.97	0.46
2:L:2309:PHE:CE2	2:L:2318:ALA:N	2.84	0.46
2:L:2985:GLU:HG3	2:L:2986:PRO:HD2	1.97	0.46
2:L:3099:ALA:O	2:L:3103:ILE:HG12	2.15	0.46
2:C:379:LYS:NZ	2:C:1551:ILE:HD11	2.30	0.46
2:C:426:THR:HB	2:C:1550:VAL:HG22	1.98	0.46
2:C:1476:HIS:CD2	2:C:1478:SER:HB2	2.50	0.46
2:C:1942:CYS:O	2:C:1946:ASN:ND2	2.48	0.46
2:C:2158:ARG:O	2:C:2158:ARG:HG2	2.15	0.46
2:L:55:THR:HA	2:L:59:PHE:HD1	1.81	0.46
2:L:752:LEU:HG	2:L:756:PHE:CE1	2.50	0.46
2:L:901:MET:HG3	2:L:2819:GLU:OE1	2.16	0.46
2:L:1290:LEU:HG	2:L:1294:VAL:HB	1.96	0.46
2:L:1635:LYS:HA	2:L:1642:LYS:HE2	1.96	0.46
2:L:3558:ILE:HA	2:L:3561:LYS:HG2	1.98	0.46
2:C:2165:LEU:HD23	2:C:2168:LEU:HD11	1.96	0.46
2:L:483:VAL:HG11	2:L:567:GLU:OE2	2.15	0.46
2:L:906:PHE:O	2:L:909:VAL:HG12	2.16	0.46
2:L:2184:TYR:CD1	2:L:2185:MET:HG2	2.51	0.46
2:L:2447:LYS:O	2:L:2449:VAL:N	2.46	0.46
2:L:3493:TRP:CZ2	2:L:3710:LYS:HB3	2.50	0.46
2:L:3889:ARG:HG2	2:L:3889:ARG:NH2	2.30	0.46
2:C:314:SER:O	2:C:317:GLU:HG2	2.15	0.46
2:C:410:MET:HB2	2:C:411:PRO:HD3	1.98	0.46
2:C:446:PHE:CG	2:C:530:LEU:HD12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:750:PRO:O	2:C:754:MET:HG2	2.16	0.46
2:C:1710:LEU:HA	2:C:1713:VAL:HG12	1.97	0.46
2:C:2169:LEU:HB3	2:C:2211:LEU:HD13	1.97	0.46
2:C:3497:SER:HG	2:C:3498:TRP:CD1	2.34	0.46
2:C:3823:GLU:O	2:C:3827:ALA:N	2.49	0.46
2:L:997:ASN:HD22	2:L:1043:GLN:CG	2.23	0.46
2:L:1942:CYS:O	2:L:1946:ASN:ND2	2.48	0.46
2:L:2309:PHE:HE2	2:L:2318:ALA:N	2.14	0.46
2:C:483:VAL:HG11	2:C:567:GLU:OE2	2.16	0.46
2:C:938:VAL:HA	2:C:941:MET:CE	2.46	0.46
2:C:3450:MET:HE1	2:C:3454:LEU:HD11	1.97	0.46
2:L:1331:ASN:HA	2:L:1334:LYS:NZ	2.31	0.45
2:L:2362:VAL:HA	2:L:2365:ASN:HB3	1.97	0.45
2:C:722:LYS:HG2	2:C:723:ASP:OD2	2.16	0.45
2:C:901:MET:HG3	2:C:2819:GLU:OE1	2.16	0.45
2:C:1569:THR:HA	2:C:1572:LEU:HD12	1.99	0.45
2:C:1764:GLU:HA	2:C:1767:CYS:SG	2.55	0.45
2:C:1817:GLN:HE22	2:C:1871:MET:CE	2.28	0.45
2:C:2985:GLU:HG3	2:C:2986:PRO:HD2	1.97	0.45
2:C:3009:LYS:HG3	2:C:3051:LEU:HD11	1.97	0.45
2:C:3414:MET:HE2	2:C:3414:MET:HB2	1.81	0.45
2:C:3558:ILE:HA	2:C:3561:LYS:HG2	1.98	0.45
2:L:410:MET:HB2	2:L:411:PRO:HD3	1.98	0.45
2:L:709:LYS:O	2:L:713:GLU:OE1	2.33	0.45
2:L:1476:HIS:HD2	2:L:1478:SER:HB2	1.81	0.45
2:L:1709:GLU:CD	2:L:1709:GLU:H	2.23	0.45
2:L:2577:PHE:H	2:L:2784:GLN:HE22	1.63	0.45
2:L:3427:GLU:O	2:L:3432:SER:HB3	2.17	0.45
2:L:3614:TYR:C	2:L:3616:ALA:H	2.22	0.45
2:L:3823:GLU:O	2:L:3827:ALA:N	2.49	0.45
2:C:249:PHE:CE1	2:C:253:LEU:HD21	2.52	0.45
2:C:2184:TYR:CD1	2:C:2185:MET:HG2	2.51	0.45
2:C:2812:LEU:O	2:C:2816:ILE:HG12	2.16	0.45
2:C:3414:MET:HE1	2:C:3464:LYS:HG3	1.98	0.45
2:C:3516:HIS:O	2:C:3519:GLU:HG3	2.17	0.45
2:C:3719:ILE:HG12	2:C:3722:PHE:HE1	1.81	0.45
2:L:155:LYS:O	2:L:159:GLU:HG2	2.16	0.45
2:L:225:LYS:HD2	2:L:270:ALA:HB2	1.97	0.45
2:L:426:THR:HB	2:L:1550:VAL:HG22	1.98	0.45
2:L:1045:THR:HB	2:L:1048:GLN:HE22	1.80	0.45
2:L:2506:LEU:HG	2:L:2525:TRP:CZ2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3719:ILE:HG12	2:L:3722:PHE:HE1	1.81	0.45
2:C:168:ASP:OD1	2:C:218:PRO:HB2	2.15	0.45
2:C:1195:VAL:HG21	2:C:1204:PRO:HB3	1.99	0.45
2:C:3427:GLU:O	2:C:3432:SER:HB3	2.17	0.45
2:L:70:ARG:HE	2:L:110:THR:HA	1.80	0.45
2:L:1759:LEU:O	2:L:1762:MET:HG2	2.16	0.45
2:L:2087:GLU:OE2	2:L:2091:HIS:HD2	1.98	0.45
2:L:2158:ARG:HG2	2:L:2158:ARG:O	2.15	0.45
2:L:2578:GLU:H	2:L:2784:GLN:NE2	2.13	0.45
2:C:155:LYS:O	2:C:159:GLU:HG2	2.17	0.45
2:C:583:LEU:HD13	2:C:614:PRO:HA	1.99	0.45
2:C:910:PHE:HE1	2:C:2807:GLN:HG2	1.82	0.45
2:C:976:VAL:O	2:C:976:VAL:HG13	2.16	0.45
2:C:1759:LEU:O	2:C:1762:MET:HG2	2.16	0.45
2:C:2331:MET:HE2	2:C:2331:MET:HA	1.98	0.45
2:C:2347:LYS:O	2:C:2350:LYS:HG2	2.17	0.45
2:L:379:LYS:NZ	2:L:1551:ILE:HD11	2.30	0.45
2:L:1195:VAL:HG21	2:L:1204:PRO:HB3	1.99	0.45
2:L:2091:HIS:HB3	2:L:2094:MET:HE3	1.98	0.45
2:L:3354:ASP:N	2:L:3354:ASP:OD1	2.48	0.45
2:L:3439:LEU:O	2:L:3440:GLN:HG3	2.16	0.45
2:L:3704:GLN:OE1	2:L:3704:GLN:N	2.50	0.45
2:L:3786:LEU:HD11	2:L:3983:ILE:HD11	1.99	0.45
2:C:426:THR:HA	2:C:1549:SER:HA	1.99	0.45
2:C:487:LEU:HD11	2:C:568:PHE:CE1	2.51	0.45
2:C:585:ILE:C	2:C:613:HIS:HB2	2.42	0.45
2:C:906:PHE:O	2:C:909:VAL:HG12	2.16	0.45
2:C:1203:SER:HB3	2:C:1206:LEU:HB2	1.97	0.45
2:C:3048:LYS:CE	2:C:3061:LEU:HB2	2.47	0.45
2:L:2253:TYR:OH	2:L:2288:TYR:N	2.42	0.45
2:L:2331:MET:HE2	2:L:2331:MET:HA	1.98	0.45
2:L:3414:MET:HE2	2:L:3414:MET:HB2	1.81	0.45
2:L:3951:GLN:HB2	2:L:4036:LYS:HZ2	1.82	0.45
2:C:988:VAL:HA	2:C:991:LEU:HG	1.98	0.45
2:C:1104:LEU:HD12	2:C:1104:LEU:HA	1.86	0.45
2:C:3704:GLN:OE1	2:C:3704:GLN:N	2.50	0.45
2:C:4017:GLU:O	2:C:4021:LEU:HG	2.16	0.45
2:L:115:TYR:CG	2:L:124:LYS:HE3	2.52	0.45
2:L:249:PHE:CE1	2:L:253:LEU:HD21	2.52	0.45
2:L:446:PHE:CG	2:L:530:LEU:HD12	2.51	0.45
2:L:585:ILE:C	2:L:613:HIS:HB2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3009:LYS:HG3	2:L:3051:LEU:HD11	1.98	0.45
2:L:3144:PHE:CE1	2:L:3193:ILE:HD11	2.52	0.45
2:L:3179:TRP:CD1	2:L:3242:MET:SD	3.10	0.45
2:L:3318:LYS:HG3	2:L:3319:ASN:N	2.32	0.45
2:L:3472:ILE:H	2:L:3472:ILE:HD12	1.81	0.45
2:C:793:LEU:N	2:C:794:PRO:HD2	2.32	0.45
2:C:1210:ASP:O	2:C:1213:LYS:HG3	2.17	0.45
2:C:1531:LEU:HB3	2:C:1559:PHE:HE2	1.82	0.45
2:C:1707:LEU:HD23	2:C:1709:GLU:OE2	2.17	0.45
2:C:2193:ILE:HD12	2:C:2245:TRP:HH2	1.82	0.45
2:C:2577:PHE:H	2:C:2784:GLN:HE22	1.63	0.45
2:C:3318:LYS:HG3	2:C:3319:ASN:N	2.31	0.45
2:C:4047:ALA:O	2:C:4051:LEU:HD23	2.16	0.45
2:L:487:LEU:HD11	2:L:568:PHE:CE1	2.51	0.45
2:L:1648:LEU:O	2:L:1652:ILE:HG12	2.17	0.45
2:L:2897:LEU:HD21	2:L:2923:TRP:CZ2	2.52	0.45
2:L:3516:HIS:O	2:L:3519:GLU:HG3	2.17	0.45
2:C:473:PRO:O	2:C:476:ARG:HB2	2.17	0.45
2:C:531:PHE:O	2:C:535:LEU:HG	2.17	0.45
2:C:2309:PHE:HE2	2:C:2318:ALA:N	2.14	0.45
2:C:3446:VAL:HA	2:C:3449:LYS:HG2	1.98	0.45
2:C:3755:GLY:N	2:C:3799:ARG:O	2.50	0.45
2:L:864:GLY:HA2	2:L:867:ASN:OD1	2.17	0.45
2:L:1010:LEU:HD21	2:L:1036:PHE:CE1	2.52	0.45
2:L:1111:LEU:HD12	2:L:1131:ILE:HD11	1.99	0.45
2:L:1151:ARG:O	2:L:1163:LEU:HG	2.16	0.45
2:L:1707:LEU:HD23	2:L:1709:GLU:OE2	2.17	0.45
2:L:2199:LEU:HD23	2:L:2200:ALA:N	2.32	0.45
2:L:2528:GLU:OE1	2:L:2528:GLU:N	2.48	0.45
2:L:3414:MET:HE1	2:L:3464:LYS:HG3	1.98	0.45
2:L:3755:GLY:N	2:L:3799:ARG:O	2.50	0.45
2:C:2091:HIS:HB3	2:C:2094:MET:HE3	1.98	0.45
2:C:2311:ARG:HE	2:C:2312:TYR:H	1.64	0.45
2:C:3138:ILE:HD13	2:C:3189:PHE:HZ	1.82	0.45
2:C:3439:LEU:O	2:C:3440:GLN:HG3	2.16	0.45
2:C:3786:LEU:HD11	2:C:3983:ILE:HD11	1.99	0.45
2:L:1569:THR:HA	2:L:1572:LEU:HD12	1.99	0.45
2:L:2311:ARG:HE	2:L:2312:TYR:H	1.64	0.45
2:L:3497:SER:HG	2:L:3498:TRP:CD1	2.34	0.45
2:C:485:GLN:HB3	2:C:489:ARG:CZ	2.46	0.45
2:C:485:GLN:CB	2:C:489:ARG:HH12	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3144:PHE:CE1	2:C:3193:ILE:HD11	2.52	0.45
2:L:426:THR:HA	2:L:1549:SER:HA	1.99	0.44
2:L:485:GLN:HB3	2:L:489:ARG:CZ	2.46	0.44
2:L:909:VAL:HG22	2:L:2807:GLN:NE2	2.32	0.44
2:L:938:VAL:HA	2:L:941:MET:CE	2.46	0.44
2:L:976:VAL:HG13	2:L:976:VAL:O	2.16	0.44
2:L:2347:LYS:O	2:L:2350:LYS:HG2	2.17	0.44
2:L:2439:ILE:HD12	2:L:2451:LEU:HD21	1.98	0.44
2:L:3870:SER:O	2:L:3873:LYS:HG2	2.17	0.44
2:L:4047:ALA:O	2:L:4051:LEU:HD23	2.16	0.44
2:C:290:TYR:HD1	2:C:292:SER:H	1.65	0.44
2:C:2199:LEU:HD23	2:C:2200:ALA:N	2.32	0.44
2:C:3472:ILE:H	2:C:3472:ILE:HD12	1.81	0.44
2:C:3856:MET:HE1	2:C:4072:PRO:HB2	1.98	0.44
2:L:290:TYR:HD1	2:L:292:SER:H	1.65	0.44
2:L:326:MET:HE2	2:L:329:LYS:HG2	2.00	0.44
2:L:722:LYS:HG2	2:L:723:ASP:OD2	2.16	0.44
2:L:2855:VAL:O	2:L:2859:GLN:OE1	2.35	0.44
2:L:3760:GLN:OE1	2:L:3760:GLN:N	2.48	0.44
2:L:3833:ARG:NH2	2:L:3838:GLU:HB2	2.33	0.44
2:C:712:LYS:HE2	2:C:712:LYS:HB3	1.86	0.44
2:C:1476:HIS:HD2	2:C:1478:SER:HB2	1.82	0.44
2:C:2147:ALA:O	2:C:2151:ILE:HG13	2.17	0.44
2:C:2362:VAL:HA	2:C:2365:ASN:HB3	1.97	0.44
2:C:2453:GLU:OE1	2:C:2453:GLU:N	2.45	0.44
2:C:3097:ASP:N	2:C:3097:ASP:OD1	2.48	0.44
2:C:3577:GLN:NE2	2:C:3684:SER:OG	2.50	0.44
2:C:3810:VAL:HG11	2:C:3932:MET:HE3	1.99	0.44
2:L:793:LEU:N	2:L:794:PRO:HD2	2.32	0.44
2:L:1210:ASP:O	2:L:1213:LYS:HG3	2.17	0.44
2:L:1653:LEU:HA	2:L:1657:SER:OG	2.17	0.44
2:L:2397:CYS:O	2:L:2401:VAL:HG23	2.17	0.44
2:L:3097:ASP:N	2:L:3097:ASP:OD1	2.49	0.44
2:C:115:TYR:CG	2:C:124:LYS:HE3	2.52	0.44
2:C:3326:GLN:O	2:C:3330:LEU:HD23	2.17	0.44
2:C:3870:SER:O	2:C:3873:LYS:HG2	2.17	0.44
2:L:352:VAL:HG11	2:L:1733:THR:HG22	1.98	0.44
2:L:910:PHE:HE1	2:L:2807:GLN:HG2	1.82	0.44
2:L:1531:LEU:HB3	2:L:1559:PHE:HE2	1.82	0.44
2:L:2884:LEU:HG	2:L:2886:GLN:HE22	1.82	0.44
2:L:3577:GLN:NE2	2:L:3684:SER:OG	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:250:ASN:OD1	2:C:251:PHE:N	2.50	0.44
2:C:563:LEU:O	2:C:567:GLU:HG2	2.18	0.44
2:C:1010:LEU:HD21	2:C:1036:PHE:CE1	2.52	0.44
2:C:1102:GLU:OE1	2:C:1155:ARG:HB2	2.18	0.44
2:C:2439:ILE:HD12	2:C:2451:LEU:HD21	1.98	0.44
2:C:2855:VAL:O	2:C:2859:GLN:OE1	2.35	0.44
2:C:3630:ARG:N	2:C:3633:ILE:HD12	2.32	0.44
2:L:208:MET:HG3	2:L:209:THR:N	2.32	0.44
2:L:250:ASN:OD1	2:L:251:PHE:N	2.50	0.44
2:L:737:PRO:O	2:L:741:ILE:HG12	2.18	0.44
2:L:1102:GLU:OE1	2:L:1155:ARG:HB2	2.18	0.44
2:L:3981:TYR:HE2	2:L:4105:LYS:HG3	1.83	0.44
2:L:4017:GLU:O	2:L:4021:LEU:HG	2.16	0.44
2:C:225:LYS:NZ	2:C:229:SER:HB2	2.33	0.44
2:C:249:PHE:O	2:C:253:LEU:HG	2.18	0.44
2:C:2397:CYS:O	2:C:2401:VAL:HG23	2.17	0.44
2:C:3179:TRP:CD1	2:C:3242:MET:SD	3.10	0.44
2:C:3465:PHE:CD1	2:C:3466:PRO:HD3	2.52	0.44
2:L:1010:LEU:HD23	2:L:1010:LEU:HA	1.84	0.44
2:L:1711:ARG:HE	2:L:1761:LEU:HD21	1.82	0.44
2:L:3085:GLU:H	2:L:3085:GLU:CD	2.22	0.44
2:L:3138:ILE:HD13	2:L:3189:PHE:HZ	1.82	0.44
2:C:737:PRO:O	2:C:741:ILE:HG12	2.18	0.44
2:C:1653:LEU:HA	2:C:1657:SER:OG	2.17	0.44
2:C:1937:ARG:HA	2:C:1940:TYR:CE2	2.53	0.44
2:C:3736:LYS:O	2:C:3751:LEU:HD12	2.18	0.44
2:C:3833:ARG:NH2	2:C:3838:GLU:HB2	2.33	0.44
2:L:225:LYS:HZ1	2:L:229:SER:HB2	1.82	0.44
2:L:473:PRO:O	2:L:476:ARG:HB2	2.17	0.44
2:L:583:LEU:HD13	2:L:614:PRO:HA	1.99	0.44
2:L:1572:LEU:O	2:L:1575:LEU:HD22	2.17	0.44
2:L:2385:LEU:HA	2:C:73:LEU:HD22	2.00	0.44
2:C:477:ASN:O	2:C:481:THR:HG23	2.18	0.44
2:C:909:VAL:HG22	2:C:2807:GLN:NE2	2.33	0.44
2:C:1427:SER:HA	2:C:1430:GLU:HB2	2.00	0.44
2:C:2897:LEU:HD21	2:C:2923:TRP:CZ2	2.52	0.44
2:L:531:PHE:O	2:L:535:LEU:HG	2.17	0.44
2:L:1389:VAL:HA	2:L:1392:MET:HB3	1.99	0.44
2:L:2280:VAL:HG13	2:L:2285:LEU:HB2	2.00	0.44
2:L:2851:PHE:CE2	2:L:2853:PRO:HG2	2.53	0.44
2:L:3588:TRP:HD1	2:L:3610:TYR:OH	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3658:ASP:OD2	2:L:3660:ASN:ND2	2.49	0.44
2:C:326:MET:HE2	2:C:329:LYS:HG2	2.00	0.44
2:C:1368:LEU:O	2:C:1372:LEU:HG	2.18	0.44
2:C:1572:LEU:O	2:C:1575:LEU:HD22	2.17	0.44
2:C:2219:LEU:O	2:C:2223:VAL:HG23	2.18	0.44
2:C:3308:ASP:HB3	2:C:3330:LEU:HD21	1.99	0.44
2:L:2371:PHE:HE2	2:L:2374:LEU:HB3	1.83	0.44
2:L:2812:LEU:O	2:L:2816:ILE:HG12	2.16	0.44
2:L:3736:LYS:O	2:L:3751:LEU:HD12	2.18	0.44
2:C:741:ILE:HG21	2:C:776:TRP:CE2	2.53	0.44
2:C:864:GLY:HA2	2:C:867:ASN:OD1	2.17	0.44
2:C:1782:PHE:HD1	2:C:1785:ILE:HD12	1.83	0.44
2:C:2470:ARG:O	2:C:2473:MET:HB2	2.18	0.44
2:C:2506:LEU:HG	2:C:2525:TRP:CZ2	2.52	0.44
2:C:3789:ARG:HB2	2:C:3938:ILE:HD13	2.00	0.44
2:L:73:LEU:HD22	2:C:2385:LEU:HA	1.99	0.43
2:L:948:MET:N	2:L:949:PRO:HD3	2.33	0.43
2:L:1648:LEU:HD12	2:L:1649:LEU:HD12	2.00	0.43
2:L:1712:ARG:HA	2:L:1715:GLU:OE2	2.18	0.43
2:L:2330:VAL:HG22	2:L:2335:ASN:H	1.83	0.43
2:L:2470:ARG:O	2:L:2473:MET:HB2	2.18	0.43
2:L:3470:GLN:H	2:L:3470:GLN:CD	2.26	0.43
2:L:3530:VAL:HG11	2:L:3568:ILE:HG21	1.99	0.43
2:L:3630:ARG:N	2:L:3633:ILE:HD12	2.32	0.43
2:L:3920:ILE:CG2	2:L:3923:ARG:HH22	2.31	0.43
2:C:352:VAL:HG11	2:C:1733:THR:HG22	1.97	0.43
2:C:397:LEU:HB3	2:C:1744:LYS:CE	2.43	0.43
2:C:1389:VAL:HA	2:C:1392:MET:HB3	1.98	0.43
2:C:1648:LEU:O	2:C:1652:ILE:HG12	2.17	0.43
2:C:1983:ASP:O	2:C:1984:LEU:HB2	2.18	0.43
2:C:2556:SER:HB2	2:C:2799:GLN:HA	2.00	0.43
2:C:2884:LEU:HG	2:C:2886:GLN:HE22	1.82	0.43
2:L:741:ILE:HG21	2:L:776:TRP:CE2	2.52	0.43
2:L:2812:LEU:HD12	2:L:2813:PHE:N	2.34	0.43
2:L:3012:GLU:OE2	2:L:3048:LYS:HG2	2.18	0.43
2:L:3072:GLU:H	2:L:3072:GLU:CD	2.24	0.43
2:C:948:MET:N	2:C:949:PRO:HD3	2.33	0.43
2:C:1111:LEU:HD12	2:C:1131:ILE:HD11	1.99	0.43
2:C:1877:LEU:O	2:C:1881:TYR:HB2	2.18	0.43
2:C:2253:TYR:OH	2:C:2288:TYR:N	2.42	0.43
2:C:3006:ALA:HB3	2:C:3257:LYS:HZ1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3012:GLU:OE2	2:C:3048:LYS:HG2	2.18	0.43
2:L:395:MET:HE2	2:L:395:MET:HB3	1.94	0.43
2:L:429:GLU:HA	2:L:432:THR:HG23	2.01	0.43
2:L:560:LEU:O	2:L:564:LEU:HG	2.18	0.43
2:L:893:SER:HA	2:L:907:LEU:H	1.83	0.43
2:L:1760:GLU:HB2	2:L:1804:MET:SD	2.58	0.43
2:L:2147:ALA:O	2:L:2151:ILE:HG13	2.17	0.43
2:L:3308:ASP:HB3	2:L:3330:LEU:HD21	1.99	0.43
2:C:1760:GLU:HB2	2:C:1804:MET:SD	2.58	0.43
2:C:2182:ILE:HD12	2:C:2225:HIS:NE2	2.33	0.43
2:C:2421:VAL:HG12	2:C:2422:GLN:OE1	2.17	0.43
2:C:2851:PHE:CE2	2:C:2853:PRO:HG2	2.53	0.43
2:C:3085:GLU:H	2:C:3085:GLU:CD	2.22	0.43
2:C:3588:TRP:HD1	2:C:3610:TYR:OH	2.01	0.43
2:L:407:VAL:HB	2:L:410:MET:HE3	1.99	0.43
2:L:1368:LEU:O	2:L:1372:LEU:HG	2.18	0.43
2:L:1459:HIS:HB2	2:L:1464:LEU:HD22	2.00	0.43
2:L:2219:LEU:O	2:L:2223:VAL:HG23	2.18	0.43
2:L:2556:SER:HB2	2:L:2799:GLN:HA	2.00	0.43
2:L:3190:LEU:HD12	2:L:3231:ILE:CG2	2.48	0.43
2:L:3411:ASP:O	2:L:3415:THR:HG23	2.19	0.43
2:L:3498:TRP:O	2:L:3502:MET:HG2	2.18	0.43
2:C:208:MET:HG3	2:C:209:THR:N	2.32	0.43
2:C:3839:TYR:CE2	2:C:4121:TRP:HA	2.54	0.43
2:L:713:GLU:HG2	2:L:717:LYS:NZ	2.33	0.43
2:L:1877:LEU:O	2:L:1881:TYR:HB2	2.18	0.43
2:L:2164:TRP:O	2:L:2164:TRP:CD1	2.71	0.43
2:L:2421:VAL:HG12	2:L:2422:GLN:OE1	2.18	0.43
2:L:3326:GLN:O	2:L:3330:LEU:HD23	2.17	0.43
2:L:3959:MET:HA	2:L:4110:GLN:HE22	1.82	0.43
2:C:1921:ASP:N	2:C:1921:ASP:OD1	2.51	0.43
2:C:2164:TRP:CD1	2:C:2164:TRP:O	2.71	0.43
2:C:2280:VAL:HG13	2:C:2285:LEU:HB2	2.00	0.43
2:C:2578:GLU:H	2:C:2784:GLN:NE2	2.13	0.43
2:L:1593:VAL:O	2:L:1596:VAL:HG22	2.18	0.43
2:L:2148:LYS:HD2	2:L:2148:LYS:HA	1.73	0.43
2:L:3465:PHE:CD1	2:L:3466:PRO:HD3	2.52	0.43
2:C:199:ALA:O	2:C:203:GLU:HG2	2.19	0.43
2:C:420:VAL:O	2:C:424:LEU:HG	2.19	0.43
2:C:1155:ARG:HD2	2:C:1155:ARG:C	2.43	0.43
2:C:1711:ARG:HE	2:C:1761:LEU:HD21	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1712:ARG:HA	2:C:1715:GLU:OE2	2.18	0.43
2:C:2560:ASN:O	2:C:2564:GLU:HG2	2.19	0.43
2:C:3530:VAL:HG11	2:C:3568:ILE:HG21	1.99	0.43
2:L:12:LEU:HG	2:L:50:VAL:HG21	2.00	0.43
2:L:125:ILE:HB	2:L:126:PRO:HD3	2.01	0.43
2:L:3049:LEU:HD11	2:L:3085:GLU:HB3	2.00	0.43
2:L:3144:PHE:HE2	2:L:3156:PRO:HB2	1.84	0.43
2:L:3324:ARG:HD2	2:L:3391:ALA:HB3	2.00	0.43
2:L:3810:VAL:HG11	2:L:3932:MET:HE3	1.99	0.43
2:L:3839:TYR:CE2	2:L:4121:TRP:HA	2.54	0.43
2:L:3981:TYR:OH	2:L:4101:GLU:HB2	2.19	0.43
2:C:231:LEU:HD11	2:C:248:ILE:HD11	2.01	0.43
2:C:713:GLU:HG2	2:C:717:LYS:NZ	2.33	0.43
2:C:1017:ILE:HD13	2:C:1081:ALA:HB2	2.01	0.43
2:C:1593:VAL:O	2:C:1596:VAL:HG22	2.18	0.43
2:C:1643:MET:N	2:C:1643:MET:SD	2.92	0.43
2:C:3144:PHE:HE2	2:C:3156:PRO:HB2	1.84	0.43
2:C:3354:ASP:OD1	2:C:3355:LYS:HD2	2.19	0.43
2:L:249:PHE:O	2:L:253:LEU:HG	2.18	0.43
2:L:420:VAL:O	2:L:424:LEU:HG	2.19	0.43
2:L:1017:ILE:HD13	2:L:1081:ALA:HB2	2.01	0.43
2:L:1983:ASP:O	2:L:1984:LEU:HB2	2.18	0.43
2:L:2182:ILE:HD12	2:L:2225:HIS:NE2	2.33	0.43
2:L:2871:LEU:HD23	2:L:2872:ASP:N	2.34	0.43
2:L:3305:SER:HB2	2:L:3358:ARG:HH21	1.84	0.43
2:L:3701:ILE:HD11	2:L:3750:PHE:CE2	2.52	0.43
2:C:279:ALA:HA	2:C:282:PHE:CE1	2.54	0.43
2:C:407:VAL:HB	2:C:410:MET:HE3	1.99	0.43
2:C:1614:GLN:OE1	2:C:1617:LYS:HB2	2.19	0.43
2:C:1623:LEU:HG	2:C:1624:GLN:OE1	2.18	0.43
2:C:2812:LEU:HD12	2:C:2813:PHE:N	2.33	0.43
2:C:3470:GLN:CD	2:C:3470:GLN:H	2.26	0.43
2:C:3498:TRP:O	2:C:3502:MET:HG2	2.18	0.43
2:C:3823:GLU:HA	2:C:3826:ALA:HB3	2.01	0.43
2:L:563:LEU:O	2:L:567:GLU:HG2	2.18	0.43
2:L:1010:LEU:HD21	2:L:1036:PHE:CZ	2.54	0.43
2:L:1367:HIS:HA	2:L:1370:ARG:HB2	2.01	0.43
2:L:1623:LEU:HG	2:L:1624:GLN:OE1	2.18	0.43
2:L:3565:GLY:HA3	2:L:3697:ASN:HB2	2.01	0.43
2:C:225:LYS:HZ1	2:C:229:SER:HB2	1.82	0.43
2:C:560:LEU:O	2:C:564:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:PHE:HA	2:C:713:GLU:CD	2.44	0.43
2:C:1270:PHE:HA	2:C:1275:THR:HB	2.01	0.43
2:C:1367:HIS:HA	2:C:1370:ARG:HB2	2.01	0.43
2:C:1459:HIS:HB2	2:C:1464:LEU:HD22	2.00	0.43
2:C:2371:PHE:HE2	2:C:2374:LEU:HB3	1.83	0.43
2:C:3842:TRP:HZ3	2:C:3870:SER:CB	2.32	0.43
2:L:225:LYS:NZ	2:L:229:SER:HB2	2.33	0.43
2:L:788:TYR:O	2:L:792:ILE:HG12	2.19	0.43
2:L:1427:SER:HA	2:L:1430:GLU:HB2	2.00	0.43
2:L:1743:MET:HE3	2:L:1743:MET:HB3	1.89	0.43
2:L:1874:TYR:HB3	2:L:1947:CYS:HB2	2.01	0.43
2:L:2193:ILE:HD12	2:L:2245:TRP:HH2	1.82	0.43
2:L:3789:ARG:HB2	2:L:3938:ILE:HD13	2.00	0.43
2:L:3998:LEU:HB3	2:L:4002:MET:HE1	2.01	0.43
2:C:1066:LEU:HB3	2:C:1078:ALA:HB2	2.01	0.43
2:C:1142:HIS:CG	2:C:1197:LEU:HD12	2.54	0.43
2:C:2510:LEU:HD13	2:C:2557:LEU:HG	2.01	0.43
2:C:2538:ARG:NH1	2:C:2565:MET:SD	2.92	0.43
2:C:3305:SER:HB2	2:C:3358:ARG:HH21	1.83	0.43
2:C:3411:ASP:O	2:C:3415:THR:HG23	2.19	0.43
2:C:3629:ARG:HH12	2:C:3634:GLN:HB3	1.84	0.43
2:L:886:TRP:CE2	2:L:964:ARG:HD3	2.54	0.42
2:L:1270:PHE:HA	2:L:1275:THR:HB	2.01	0.42
2:L:1291:LEU:HD12	2:L:1292:LYS:N	2.34	0.42
2:L:1643:MET:N	2:L:1643:MET:SD	2.91	0.42
2:L:1782:PHE:HD1	2:L:1785:ILE:HD12	1.83	0.42
2:L:1937:ARG:HA	2:L:1940:TYR:CE2	2.53	0.42
2:L:2560:ASN:O	2:L:2564:GLU:HG2	2.19	0.42
2:L:2869:LEU:HD21	2:L:2899:ARG:HG3	2.01	0.42
2:L:3088:LEU:HA	2:L:3091:LEU:HD12	2.00	0.42
2:L:3354:ASP:OD1	2:L:3355:LYS:HD2	2.19	0.42
2:L:3951:GLN:O	2:L:4036:LYS:HE3	2.19	0.42
2:C:886:TRP:CE2	2:C:964:ARG:HD3	2.54	0.42
2:C:2330:VAL:HG22	2:C:2335:ASN:H	1.83	0.42
2:C:2871:LEU:HD23	2:C:2872:ASP:N	2.34	0.42
2:C:3123:GLN:H	2:C:3123:GLN:CD	2.24	0.42
2:C:3447:VAL:HG12	2:C:3475:TYR:CE1	2.54	0.42
2:C:3760:GLN:OE1	2:C:3760:GLN:N	2.48	0.42
2:C:3920:ILE:CG2	2:C:3923:ARG:HH22	2.31	0.42
2:C:3923:ARG:HB2	2:C:4124:TRP:CH2	2.54	0.42
2:C:3959:MET:HA	2:C:4110:GLN:HE22	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3981:TYR:HE2	2:C:4105:LYS:HG3	1.83	0.42
2:L:710:PHE:HA	2:L:713:GLU:CD	2.44	0.42
2:L:713:GLU:HG2	2:L:717:LYS:HZ1	1.84	0.42
2:L:1237:ALA:O	2:L:1241:LEU:HG	2.20	0.42
2:L:1921:ASP:OD1	2:L:1921:ASP:N	2.51	0.42
2:L:2148:LYS:NZ	2:L:2152:ASN:OD1	2.45	0.42
2:L:2413:PHE:CD1	2:L:2416:LYS:HD2	2.54	0.42
2:L:2510:LEU:HD13	2:L:2557:LEU:HG	2.01	0.42
2:L:2919:ASP:OD1	2:L:2919:ASP:N	2.52	0.42
2:L:3008:TRP:HB2	2:L:3051:LEU:CD2	2.49	0.42
2:L:3103:ILE:O	2:L:3107:ILE:HG12	2.19	0.42
2:L:3447:VAL:HB	2:L:3485:LYS:HZ3	1.82	0.42
2:L:3629:ARG:HH12	2:L:3634:GLN:HB3	1.84	0.42
2:C:1101:PHE:CZ	2:C:1168:LEU:HD12	2.54	0.42
2:C:1125:GLN:OE1	2:C:1125:GLN:N	2.44	0.42
2:C:1794:GLN:O	2:C:1797:LEU:HG	2.19	0.42
2:C:3008:TRP:HB2	2:C:3051:LEU:CD2	2.49	0.42
2:C:3332:THR:O	2:C:3335:ARG:HG2	2.19	0.42
2:C:3945:ALA:O	2:C:3948:SER:OG	2.23	0.42
2:L:485:GLN:CB	2:L:489:ARG:HH12	2.29	0.42
2:L:1935:GLU:O	2:L:1939:LEU:HD23	2.19	0.42
2:L:3701:ILE:HG22	2:L:3717:VAL:O	2.19	0.42
2:C:1188:ILE:CD1	2:C:1269:THR:HG21	2.49	0.42
2:C:1291:LEU:HD12	2:C:1292:LYS:N	2.34	0.42
2:C:1648:LEU:HD12	2:C:1649:LEU:HD12	2.00	0.42
2:C:3842:TRP:HZ3	2:C:3870:SER:HB3	1.84	0.42
2:L:199:ALA:O	2:L:203:GLU:HG2	2.19	0.42
2:L:2281:MET:SD	2:L:2282:ALA:N	2.92	0.42
2:L:3048:LYS:CE	2:L:3061:LEU:HB2	2.47	0.42
2:L:3781:CYS:SG	2:L:3786:LEU:HD22	2.59	0.42
2:L:3923:ARG:HB2	2:L:4124:TRP:CH2	2.54	0.42
2:C:569:VAL:HG13	2:C:645:TRP:CZ3	2.54	0.42
2:C:884:VAL:HA	2:C:3890:MET:O	2.19	0.42
2:C:1872:GLY:O	2:C:1876:ILE:HG12	2.19	0.42
2:C:2281:MET:SD	2:C:2282:ALA:N	2.92	0.42
2:C:2829:LYS:HG3	2:C:2830:ASN:N	2.35	0.42
2:C:3179:TRP:NE1	2:C:3242:MET:SD	2.93	0.42
2:C:3565:GLY:HA3	2:C:3697:ASN:HB2	2.01	0.42
2:C:3781:CYS:SG	2:C:3786:LEU:HD22	2.59	0.42
2:L:279:ALA:HA	2:L:282:PHE:CE1	2.54	0.42
2:L:477:ASN:O	2:L:481:THR:HG23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:569:VAL:HG13	2:L:645:TRP:CZ3	2.54	0.42
2:L:1041:ILE:O	2:L:1044:ILE:HG12	2.20	0.42
2:L:1825:LEU:HD12	2:L:1879:VAL:HG21	2.01	0.42
2:L:3179:TRP:NE1	2:L:3242:MET:SD	2.93	0.42
2:L:3332:THR:O	2:L:3335:ARG:HG2	2.19	0.42
2:L:3450:MET:SD	2:L:3451:LEU:N	2.92	0.42
2:L:3598:LYS:HG3	2:L:3599:THR:H	1.84	0.42
2:L:3838:GLU:HB3	2:L:3874:ARG:CD	2.45	0.42
2:L:3842:TRP:HZ3	2:L:3870:SER:HB3	1.84	0.42
2:C:893:SER:HA	2:C:907:LEU:H	1.83	0.42
2:C:2413:PHE:CD1	2:C:2416:LYS:HD2	2.54	0.42
2:C:3088:LEU:HA	2:C:3091:LEU:HD12	2.00	0.42
2:C:3103:ILE:O	2:C:3107:ILE:HG12	2.19	0.42
2:C:3447:VAL:HB	2:C:3485:LYS:HZ3	1.83	0.42
2:C:3879:PRO:HG2	2:C:3882:LEU:HD21	2.02	0.42
2:C:3951:GLN:O	2:C:4036:LYS:HE3	2.19	0.42
2:L:979:VAL:HA	2:L:982:GLN:HE21	1.85	0.42
2:L:1066:LEU:HB3	2:L:1078:ALA:HB2	2.01	0.42
2:L:1422:LYS:N	2:L:1422:LYS:HD2	2.35	0.42
2:L:1648:LEU:CD1	2:L:1649:LEU:HD12	2.50	0.42
2:L:1872:GLY:O	2:L:1876:ILE:HG12	2.19	0.42
2:L:2538:ARG:NH1	2:L:2565:MET:SD	2.92	0.42
2:L:2998:SER:HA	2:L:3001:CYS:SG	2.60	0.42
2:L:3842:TRP:HZ3	2:L:3870:SER:CB	2.32	0.42
2:L:3978:GLY:C	2:L:3980:MET:H	2.27	0.42
2:C:318:SER:O	2:C:322:GLN:HG2	2.20	0.42
2:C:602:MET:O	2:C:604:PRO:HD3	2.20	0.42
2:C:888:ARG:NH2	2:C:3932:MET:HE1	2.35	0.42
2:C:909:VAL:HG22	2:C:2807:GLN:HE21	1.84	0.42
2:C:1708:GLU:OE1	2:C:1712:ARG:HB3	2.19	0.42
2:C:1860:GLU:HB3	2:C:1862:THR:HG22	2.02	0.42
2:C:2931:ARG:NH2	2:C:3000:ASP:OD2	2.52	0.42
2:C:3450:MET:SD	2:C:3451:LEU:N	2.93	0.42
2:C:3701:ILE:HG22	2:C:3717:VAL:O	2.19	0.42
2:C:3981:TYR:OH	2:C:4101:GLU:HB2	2.19	0.42
2:L:602:MET:O	2:L:604:PRO:HD3	2.19	0.42
2:L:741:ILE:O	2:L:745:VAL:HG22	2.20	0.42
2:L:884:VAL:HA	2:L:3890:MET:O	2.19	0.42
2:L:1604:SER:HA	2:L:1607:GLU:HG3	2.02	0.42
2:L:2327:LEU:HD11	2:L:2342:CYS:SG	2.60	0.42
2:L:3502:MET:SD	2:L:3514:VAL:HG11	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3645:GLY:HA2	2:L:3649:SER:N	2.34	0.42
2:C:868:LYS:HD2	2:C:868:LYS:C	2.45	0.42
2:C:979:VAL:HA	2:C:982:GLN:NE2	2.34	0.42
2:C:2327:LEU:HD11	2:C:2342:CYS:SG	2.60	0.42
2:C:3305:SER:HB2	2:C:3358:ARG:NH2	2.34	0.42
2:C:3978:GLY:C	2:C:3980:MET:H	2.27	0.42
2:L:1101:PHE:CZ	2:L:1168:LEU:HD12	2.54	0.42
2:L:1155:ARG:HD2	2:L:1155:ARG:C	2.43	0.42
2:L:1328:GLU:OE1	2:L:1329:ARG:HD2	2.20	0.42
2:L:3305:SER:HB2	2:L:3358:ARG:NH2	2.34	0.42
2:C:429:GLU:HA	2:C:432:THR:HG23	2.01	0.42
2:C:788:TYR:O	2:C:792:ILE:HG12	2.19	0.42
2:C:2486:ASP:HB3	2:C:2487:PRO:HD3	2.02	0.42
2:C:4046:TYR:OH	2:C:4062:ASP:HB3	2.19	0.42
2:L:69:VAL:HA	2:L:78:PHE:CZ	2.55	0.42
2:L:421:LEU:HD12	2:L:467:ALA:HB3	2.02	0.42
2:L:891:ARG:HD3	2:L:955:ALA:HB1	2.02	0.42
2:L:947:GLN:HE21	2:L:954:GLY:HA2	1.85	0.42
2:L:1125:GLN:OE1	2:L:1125:GLN:N	2.44	0.42
2:L:1170:LYS:HA	2:L:1173:LEU:HD12	2.02	0.42
2:L:1670:GLU:O	2:L:1674:THR:HG23	2.20	0.42
2:L:2834:GLN:HA	2:L:2837:LEU:HG	2.02	0.42
2:L:3385:LEU:O	2:L:3389:VAL:HG13	2.19	0.42
2:L:3823:GLU:HA	2:L:3826:ALA:HB3	2.01	0.42
2:L:3930:VAL:HG13	2:L:3937:VAL:HG12	2.01	0.42
2:C:125:ILE:HB	2:C:126:PRO:HD3	2.01	0.42
2:C:1219:PHE:O	2:C:1223:THR:OG1	2.29	0.42
2:C:1328:GLU:OE1	2:C:1329:ARG:NH2	2.53	0.42
2:C:1825:LEU:HD12	2:C:1879:VAL:HG21	2.01	0.42
2:C:1935:GLU:O	2:C:1939:LEU:HD23	2.19	0.42
2:C:2309:PHE:CE2	2:C:2318:ALA:N	2.84	0.42
2:C:3049:LEU:HD11	2:C:3085:GLU:HB3	2.00	0.42
2:C:3324:ARG:HD2	2:C:3391:ALA:HB3	2.01	0.42
2:C:3998:LEU:HB3	2:C:4002:MET:HE1	2.01	0.42
2:L:397:LEU:HB3	2:L:1744:LYS:CE	2.44	0.42
2:L:414:LEU:CD2	2:L:442:GLN:HG2	2.39	0.42
2:L:868:LYS:HD2	2:L:868:LYS:C	2.45	0.42
2:L:999:LYS:HB2	2:L:999:LYS:HE3	1.94	0.42
2:L:1188:ILE:CD1	2:L:1269:THR:HG21	2.49	0.42
2:L:1614:GLN:OE1	2:L:1617:LYS:HB2	2.19	0.42
2:L:3561:LYS:HB2	2:L:3561:LYS:HE3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:741:ILE:O	2:C:745:VAL:HG22	2.20	0.42
2:C:774:GLU:OE2	2:C:854:ARG:NH1	2.33	0.42
2:C:1237:ALA:O	2:C:1241:LEU:HG	2.20	0.42
2:C:1648:LEU:CD1	2:C:1649:LEU:HD12	2.49	0.42
2:C:3190:LEU:O	2:C:3193:ILE:HG22	2.20	0.42
2:C:3593:ARG:NH2	2:C:3598:LYS:HA	2.35	0.42
2:C:3645:GLY:HA2	2:C:3649:SER:N	2.34	0.42
2:C:3658:ASP:OD2	2:C:3660:ASN:ND2	2.49	0.42
2:C:3857:LEU:O	2:C:3861:GLY:N	2.52	0.42
2:L:631:ARG:NH1	2:L:668:LYS:HD2	2.35	0.41
2:L:924:ARG:O	2:L:927:LYS:HB3	2.20	0.41
2:L:1533:LEU:O	2:L:1533:LEU:HD23	2.20	0.41
2:L:1708:GLU:OE1	2:L:1712:ARG:HB3	2.19	0.41
2:L:1819:PHE:O	2:L:1823:SER:OG	2.33	0.41
2:L:1876:ILE:HG13	2:L:1877:LEU:N	2.35	0.41
2:L:3327:ASN:HB3	2:L:3384:HIS:HB3	2.02	0.41
2:L:3517:SER:O	2:L:3520:GLU:HG3	2.20	0.41
2:L:3608:LYS:C	2:L:3610:TYR:H	2.28	0.41
2:C:200:PHE:HB3	2:C:227:LEU:HD13	2.01	0.41
2:C:425:ASP:O	2:C:1549:SER:HA	2.20	0.41
2:C:436:GLU:O	2:C:440:VAL:HG23	2.20	0.41
2:C:732:PHE:HD2	2:C:733:LEU:HD22	1.85	0.41
2:C:947:GLN:HE21	2:C:954:GLY:HA2	1.85	0.41
2:C:979:VAL:HA	2:C:982:GLN:HE21	1.85	0.41
2:C:1067:ALA:HB2	2:C:1107:TYR:CE1	2.54	0.41
2:C:1103:ALA:HB1	2:C:1107:TYR:CE2	2.55	0.41
2:C:2148:LYS:HA	2:C:2148:LYS:HD2	1.73	0.41
2:C:3356:ALA:HA	2:C:3359:ILE:HD12	2.02	0.41
2:L:200:PHE:HB3	2:L:227:LEU:HD13	2.01	0.41
2:L:409:GLN:HB3	2:L:412:SER:OG	2.20	0.41
2:L:425:ASP:O	2:L:1549:SER:HA	2.20	0.41
2:L:1041:ILE:HA	2:L:1044:ILE:HG23	2.03	0.41
2:L:1067:ALA:HB2	2:L:1107:TYR:CE1	2.54	0.41
2:L:1102:GLU:O	2:L:1106:ILE:HG12	2.20	0.41
2:L:3664:ASN:HA	2:L:3667:LEU:HB2	2.02	0.41
2:L:3857:LEU:O	2:L:3861:GLY:N	2.52	0.41
2:L:4046:TYR:OH	2:L:4062:ASP:HB3	2.19	0.41
2:C:12:LEU:HG	2:C:50:VAL:HG21	2.00	0.41
2:C:924:ARG:O	2:C:927:LYS:HB3	2.20	0.41
2:C:2834:GLN:HA	2:C:2837:LEU:HG	2.02	0.41
2:C:2998:SER:HA	2:C:3001:CYS:SG	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3087:SER:O	2:C:3091:LEU:HG	2.20	0.41
2:C:3327:ASN:HB3	2:C:3384:HIS:HB3	2.02	0.41
2:C:3555:VAL:HA	2:C:3558:ILE:HG22	2.03	0.41
2:C:3858:MET:SD	2:C:4119:ARG:HD3	2.60	0.41
1:Q:6016:UNK:C	1:Q:6018:UNK:H	2.28	0.41
2:L:231:LEU:HD11	2:L:248:ILE:HD11	2.01	0.41
2:L:670:LEU:O	2:L:674:VAL:HG22	2.20	0.41
2:L:979:VAL:HA	2:L:982:GLN:NE2	2.34	0.41
2:L:1105:VAL:HA	2:L:1108:MET:CE	2.51	0.41
2:L:1876:ILE:O	2:L:1880:MET:HG3	2.20	0.41
2:L:2148:LYS:HA	2:L:2151:ILE:HD12	2.02	0.41
2:L:2413:PHE:HA	2:L:2416:LYS:HG3	2.02	0.41
2:L:2453:GLU:HA	2:L:2456:ASN:ND2	2.35	0.41
2:L:2829:LYS:HG3	2:L:2830:ASN:N	2.35	0.41
2:L:3447:VAL:HG12	2:L:3475:TYR:CE1	2.55	0.41
2:C:176:GLU:O	2:C:180:LEU:HD23	2.21	0.41
2:C:572:VAL:HA	2:C:575:ILE:HG12	2.02	0.41
2:C:623:PHE:O	2:C:627:VAL:HG23	2.21	0.41
2:C:1010:LEU:HD21	2:C:1036:PHE:CZ	2.54	0.41
2:C:1333:SER:O	2:C:1337:VAL:HG23	2.20	0.41
2:C:2148:LYS:NZ	2:C:2152:ASN:OD1	2.45	0.41
2:C:2459:VAL:HG22	2:C:2505:VAL:HG11	2.03	0.41
2:C:3074:GLN:O	2:C:3078:LEU:HD23	2.20	0.41
2:C:3517:SER:O	2:C:3520:GLU:HG3	2.20	0.41
2:L:155:LYS:HB3	2:L:155:LYS:HE3	1.93	0.41
2:L:229:SER:HA	2:L:273:ARG:HH22	1.85	0.41
2:L:901:MET:C	2:L:902:LYS:HD3	2.45	0.41
2:L:1133:HIS:O	2:L:1136:ARG:HB2	2.20	0.41
2:L:1142:HIS:CG	2:L:1197:LEU:HD12	2.54	0.41
2:L:1168:LEU:O	2:L:1168:LEU:HD23	2.21	0.41
2:L:1862:THR:O	2:L:1865:THR:HG22	2.21	0.41
2:L:3454:LEU:HD11	2:L:3471:ILE:HG21	2.02	0.41
2:C:631:ARG:NH1	2:C:668:LYS:HD2	2.35	0.41
2:C:1168:LEU:HD23	2:C:1168:LEU:O	2.21	0.41
2:C:1207:TRP:O	2:C:1211:VAL:HG23	2.20	0.41
2:C:1422:LYS:HD2	2:C:1422:LYS:N	2.35	0.41
2:C:1862:THR:O	2:C:1865:THR:HG22	2.21	0.41
2:C:1874:TYR:HB3	2:C:1947:CYS:HB2	2.01	0.41
2:C:2148:LYS:HA	2:C:2151:ILE:HD12	2.02	0.41
2:C:3161:LEU:O	2:C:3165:THR:HG23	2.20	0.41
2:L:909:VAL:HG22	2:L:2807:GLN:HE21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:1794:GLN:O	2:L:1797:LEU:HG	2.19	0.41
2:L:3612:ARG:CG	2:L:3799:ARG:HH12	2.34	0.41
2:L:3644:PHE:CD2	2:L:3648:GLY:HA3	2.56	0.41
2:C:1137:ILE:H	2:C:1137:ILE:HD12	1.86	0.41
2:C:1604:SER:HA	2:C:1607:GLU:HG3	2.02	0.41
2:C:1851:LEU:HB3	2:C:1918:LEU:HD13	2.03	0.41
2:C:3598:LYS:HG3	2:C:3599:THR:H	1.84	0.41
2:C:3628:PHE:CD2	2:C:3685:PRO:HG2	2.56	0.41
2:L:653:LEU:HD11	2:L:669:LEU:HD12	2.02	0.41
2:L:660:LEU:O	2:L:662:LEU:N	2.49	0.41
2:L:721:TYR:HD2	2:L:729:CYS:SG	2.44	0.41
2:L:738:HIS:CD2	2:L:779:TYR:HB3	2.56	0.41
2:L:1050:GLU:HA	2:L:1050:GLU:OE1	2.21	0.41
2:L:1328:GLU:OE1	2:L:1329:ARG:NH2	2.53	0.41
2:L:2205:VAL:HG22	2:L:2207:LYS:H	1.86	0.41
2:L:3593:ARG:NH2	2:L:3598:LYS:HA	2.35	0.41
2:C:1041:ILE:O	2:C:1044:ILE:HG12	2.20	0.41
2:C:2205:VAL:HG22	2:C:2207:LYS:H	1.86	0.41
2:C:2371:PHE:CE2	2:C:2374:LEU:HB3	2.55	0.41
2:C:3930:VAL:HG13	2:C:3937:VAL:HG12	2.01	0.41
2:C:4036:LYS:O	2:C:4036:LYS:HG3	2.21	0.41
2:L:176:GLU:O	2:L:180:LEU:HD23	2.20	0.41
2:L:2453:GLU:OE1	2:L:2453:GLU:N	2.45	0.41
2:L:3087:SER:O	2:L:3091:LEU:HG	2.20	0.41
2:C:395:MET:HE2	2:C:395:MET:HB3	1.94	0.41
2:C:738:HIS:CD2	2:C:779:TYR:HB3	2.56	0.41
2:C:1250:LEU:HB2	2:C:1310:GLU:OE2	2.21	0.41
2:C:1475:LEU:HD12	2:C:1475:LEU:O	2.20	0.41
2:C:1707:LEU:HG	2:C:1709:GLU:HG3	2.03	0.41
2:C:1715:GLU:O	2:C:1719:VAL:HG22	2.21	0.41
2:C:2456:ASN:O	2:C:2459:VAL:HB	2.21	0.41
2:C:3385:LEU:O	2:C:3389:VAL:HG13	2.19	0.41
2:C:3701:ILE:HD11	2:C:3750:PHE:CE2	2.52	0.41
2:L:414:LEU:HA	2:L:417:VAL:HG22	2.03	0.41
2:L:602:MET:HA	2:L:1087:ARG:NH1	2.36	0.41
2:L:732:PHE:HD2	2:L:733:LEU:HD22	1.85	0.41
2:L:1104:LEU:HD12	2:L:1104:LEU:HA	1.86	0.41
2:L:1137:ILE:H	2:L:1137:ILE:HD12	1.85	0.41
2:L:2168:LEU:HD13	2:L:2193:ILE:HG22	2.02	0.41
2:L:2435:CYS:O	2:L:2438:ILE:HB	2.21	0.41
2:L:3323:PHE:O	2:L:3326:GLN:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:3374:ILE:HG13	2:L:3375:ALA:N	2.35	0.41
2:L:3561:LYS:O	2:L:3564:GLN:NE2	2.54	0.41
2:L:3879:PRO:HG2	2:L:3882:LEU:HD21	2.02	0.41
2:L:3953:LEU:O	2:L:3954:PRO:C	2.64	0.41
2:C:1041:ILE:HA	2:C:1044:ILE:HG23	2.02	0.41
2:C:1105:VAL:HA	2:C:1108:MET:CE	2.51	0.41
2:C:1170:LYS:HA	2:C:1173:LEU:HD12	2.02	0.41
2:C:1261:LEU:HD22	2:C:1337:VAL:HG22	2.03	0.41
2:C:2168:LEU:HD13	2:C:2193:ILE:HG22	2.02	0.41
2:C:3323:PHE:O	2:C:3326:GLN:HG3	2.20	0.41
2:C:3502:MET:SD	2:C:3514:VAL:HG11	2.60	0.41
2:C:3644:PHE:CD2	2:C:3648:GLY:HA3	2.56	0.41
2:C:3953:LEU:O	2:C:3954:PRO:C	2.64	0.41
1:R:6016:UNK:C	1:R:6018:UNK:N	2.84	0.41
2:L:274:LEU:HA	2:L:274:LEU:HD12	1.87	0.41
2:L:361:ILE:HD12	2:L:364:ARG:HB2	2.03	0.41
2:L:436:GLU:O	2:L:440:VAL:HG23	2.20	0.41
2:L:744:ASP:OD1	2:L:745:VAL:N	2.54	0.41
2:L:888:ARG:NH2	2:L:3932:MET:HE1	2.35	0.41
2:L:1205:ASN:OD1	2:L:1275:THR:HA	2.21	0.41
2:L:1207:TRP:O	2:L:1211:VAL:HG23	2.20	0.41
2:L:1333:SER:O	2:L:1337:VAL:HG23	2.20	0.41
2:L:1475:LEU:HD12	2:L:1475:LEU:O	2.20	0.41
2:L:1794:GLN:O	2:L:1798:LEU:HG	2.21	0.41
2:L:1860:GLU:HB3	2:L:1862:THR:HG22	2.02	0.41
2:L:1976:LEU:HD21	2:L:2087:GLU:HG2	2.03	0.41
2:L:2456:ASN:O	2:L:2459:VAL:HB	2.21	0.41
2:L:2459:VAL:HG22	2:L:2505:VAL:HG11	2.03	0.41
2:L:2558:ALA:O	2:L:2562:LEU:HG	2.21	0.41
2:L:2851:PHE:HA	2:L:2852:PRO:HD3	1.95	0.41
2:L:3180:ASP:OD1	2:L:3180:ASP:N	2.54	0.41
2:L:3249:GLN:HE22	2:L:3783:GLN:NE2	2.19	0.41
2:L:3356:ALA:HA	2:L:3359:ILE:HD12	2.02	0.41
2:L:4022:LYS:HA	2:L:4028:ILE:HD11	2.03	0.41
2:C:248:ILE:O	2:C:252:VAL:HG23	2.21	0.41
2:C:602:MET:HA	2:C:1087:ARG:NH1	2.36	0.41
2:C:891:ARG:HD3	2:C:955:ALA:HB1	2.02	0.41
2:C:1328:GLU:OE1	2:C:1329:ARG:HD2	2.20	0.41
2:C:1448:LEU:O	2:C:1452:VAL:HG12	2.21	0.41
2:C:1533:LEU:HD23	2:C:1533:LEU:O	2.20	0.41
2:C:1670:GLU:O	2:C:1674:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2093:CYS:SG	2:C:2097:LEU:HD12	2.61	0.41
2:C:2558:ALA:O	2:C:2562:LEU:HG	2.21	0.41
2:C:2869:LEU:HD21	2:C:2899:ARG:HG3	2.01	0.41
2:C:3764:VAL:HG11	2:C:3941:ASP:OD2	2.21	0.41
2:C:3975:LYS:HD2	2:C:3976:GLU:H	1.86	0.41
2:C:4113:ASP:HB3	2:C:4116:ILE:HG12	2.03	0.41
2:L:623:PHE:O	2:L:627:VAL:HG23	2.21	0.41
2:L:643:GLU:HG2	2:L:644:PRO:CD	2.49	0.41
2:L:2371:PHE:CE2	2:L:2374:LEU:HB3	2.55	0.41
2:L:3046:ARG:CZ	2:L:3050:LYS:HZ1	2.33	0.41
2:L:3161:LEU:O	2:L:3165:THR:HG23	2.20	0.41
2:L:3190:LEU:O	2:L:3193:ILE:HG22	2.20	0.41
2:L:3598:LYS:HG3	2:L:3599:THR:N	2.36	0.41
2:L:3997:LEU:O	2:L:4001:THR:OG1	2.24	0.41
2:L:4113:ASP:HB3	2:L:4116:ILE:HG12	2.03	0.41
2:C:35:ILE:H	2:C:35:ILE:HD12	1.86	0.41
2:C:69:VAL:HA	2:C:78:PHE:CZ	2.55	0.41
2:C:670:LEU:O	2:C:674:VAL:HG22	2.20	0.41
2:C:901:MET:C	2:C:902:LYS:HD3	2.45	0.41
2:C:985:GLU:HA	2:C:988:VAL:HG12	2.02	0.41
2:C:1145:LEU:HD23	2:C:1165:LEU:HD13	2.03	0.41
2:C:1755:SER:O	2:C:1759:LEU:HD13	2.21	0.41
2:C:2266:ASN:O	2:C:2309:PHE:HE1	2.03	0.41
2:C:2580:PRO:HA	2:C:2780:LEU:HD11	2.03	0.41
2:C:3180:ASP:OD1	2:C:3180:ASP:N	2.54	0.41
2:C:3374:ILE:HG13	2:C:3375:ALA:N	2.36	0.41
2:C:3598:LYS:HG3	2:C:3599:THR:N	2.36	0.41
2:C:4000:ASN:HA	2:C:4003:ASP:OD2	2.21	0.41
2:L:318:SER:O	2:L:322:GLN:HG2	2.20	0.40
2:L:379:LYS:HZ3	2:L:1551:ILE:HD11	1.86	0.40
2:L:572:VAL:HA	2:L:575:ILE:HG12	2.02	0.40
2:L:713:GLU:C	2:L:717:LYS:HZ2	2.29	0.40
2:L:1250:LEU:HB2	2:L:1310:GLU:OE2	2.21	0.40
2:L:1640:GLU:HA	2:L:1643:MET:HE1	2.03	0.40
2:L:3764:VAL:HG11	2:L:3941:ASP:OD2	2.21	0.40
2:L:4029:GLN:HG2	2:L:4030:GLU:N	2.36	0.40
2:C:421:LEU:HD12	2:C:467:ALA:HB3	2.02	0.40
2:C:1102:GLU:O	2:C:1106:ILE:HG12	2.20	0.40
2:C:1794:GLN:O	2:C:1798:LEU:HG	2.21	0.40
2:C:1876:ILE:HG13	2:C:1877:LEU:N	2.35	0.40
2:C:2453:GLU:HA	2:C:2456:ASN:ND2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3475:TYR:HB3	2:C:3479:THR:CG2	2.51	0.40
2:C:3789:ARG:CB	2:C:3938:ILE:HD13	2.51	0.40
2:C:4029:GLN:HG2	2:C:4030:GLU:N	2.36	0.40
1:Q:6016:UNK:C	1:Q:6018:UNK:N	2.84	0.40
2:L:1715:GLU:O	2:L:1719:VAL:HG22	2.21	0.40
2:L:1755:SER:O	2:L:1759:LEU:HD13	2.21	0.40
2:L:2266:ASN:O	2:L:2309:PHE:HE1	2.03	0.40
2:L:2486:ASP:HB3	2:L:2487:PRO:HD3	2.02	0.40
2:L:2859:GLN:HE21	2:L:2876:VAL:HG23	1.86	0.40
2:L:3645:GLY:HA2	2:L:3649:SER:H	1.86	0.40
2:L:3764:VAL:HA	2:L:3767:LEU:HG	2.03	0.40
2:C:631:ARG:HH11	2:C:668:LYS:HD2	1.87	0.40
2:C:1131:ILE:H	2:C:1131:ILE:HD12	1.86	0.40
2:C:1750:LEU:HD11	2:C:1758:LEU:CD2	2.52	0.40
2:C:3469:LEU:O	2:C:3470:GLN:C	2.64	0.40
2:C:3561:LYS:O	2:C:3564:GLN:NE2	2.54	0.40
2:C:3608:LYS:C	2:C:3610:TYR:H	2.28	0.40
2:C:3664:ASN:HA	2:C:3667:LEU:HB2	2.02	0.40
2:L:985:GLU:HA	2:L:988:VAL:HG12	2.03	0.40
2:L:1131:ILE:HD12	2:L:1131:ILE:H	1.86	0.40
2:L:2093:CYS:SG	2:L:2097:LEU:HD12	2.61	0.40
2:L:2584:CYS:SG	2:L:2585:GLU:N	2.94	0.40
2:C:409:GLN:HB3	2:C:412:SER:OG	2.20	0.40
2:C:573:LEU:HA	2:C:576:VAL:HG12	2.03	0.40
2:C:660:LEU:O	2:C:662:LEU:N	2.49	0.40
2:C:732:PHE:CD2	2:C:733:LEU:HD22	2.57	0.40
2:C:1133:HIS:O	2:C:1136:ARG:HB2	2.20	0.40
2:C:1560:TYR:HE2	2:C:1596:VAL:HB	1.86	0.40
2:C:1876:ILE:O	2:C:1880:MET:HG3	2.20	0.40
2:C:3454:LEU:HD11	2:C:3471:ILE:HG21	2.02	0.40
2:C:3471:ILE:HA	2:C:3474:ARG:HH21	1.85	0.40
2:L:732:PHE:CD2	2:L:733:LEU:HD22	2.57	0.40
2:L:889:GLU:HA	2:L:3889:ARG:NH1	2.36	0.40
2:L:925:GLN:HE21	2:L:925:GLN:HB3	1.57	0.40
2:L:1155:ARG:NE	2:L:1158:PRO:HD2	2.36	0.40
2:L:1758:LEU:HA	2:L:1761:LEU:HD12	2.03	0.40
2:L:2785:ILE:HG22	2:L:2786:LYS:N	2.37	0.40
2:L:3555:VAL:HA	2:L:3558:ILE:HG22	2.02	0.40
2:L:3710:LYS:HA	2:L:3711:PRO:HD3	1.95	0.40
2:L:3858:MET:SD	2:L:4119:ARG:HD3	2.60	0.40
2:C:1208:LEU:HD23	2:C:1208:LEU:HA	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1779:GLN:O	2:C:1783:ARG:HG3	2.22	0.40
2:C:2413:PHE:HA	2:C:2416:LYS:HG3	2.03	0.40
2:C:2435:CYS:O	2:C:2438:ILE:HB	2.21	0.40
2:C:4076:ASP:OD1	2:C:4076:ASP:N	2.54	0.40
1:R:6016:UNK:C	1:R:6018:UNK:H	2.28	0.40
2:L:1103:ALA:HB1	2:L:1107:TYR:CE2	2.55	0.40
2:L:1261:LEU:HD22	2:L:1337:VAL:HG22	2.03	0.40
2:L:1369:MET:HA	2:L:1372:LEU:HD12	2.04	0.40
2:L:1702:LEU:HD13	2:L:1757:MET:HE3	2.03	0.40
2:L:1750:LEU:HD11	2:L:1758:LEU:CD2	2.52	0.40
2:L:1811:ARG:HD2	2:L:1816:ARG:NH1	2.37	0.40
2:L:3469:LEU:O	2:L:3470:GLN:C	2.64	0.40
2:L:3577:GLN:HE22	2:L:3684:SER:CB	2.34	0.40
2:L:3631:LYS:HG3	2:L:3683:CYS:HA	2.04	0.40
2:L:3842:TRP:HA	2:L:3845:LYS:CB	2.50	0.40
2:L:4036:LYS:HG3	2:L:4036:LYS:O	2.21	0.40
2:C:321:LYS:O	2:C:321:LYS:HD2	2.21	0.40
2:C:414:LEU:HA	2:C:417:VAL:HG22	2.03	0.40
2:C:627:VAL:HG13	2:C:669:LEU:HD21	2.04	0.40
2:C:721:TYR:HD2	2:C:729:CYS:SG	2.44	0.40
2:C:1155:ARG:NE	2:C:1158:PRO:HD2	2.36	0.40
2:C:2859:GLN:HE21	2:C:2876:VAL:HG23	1.87	0.40
2:C:3006:ALA:HB3	2:C:3257:LYS:NZ	2.36	0.40
2:C:3041:LEU:N	2:C:3042:PRO:HD2	2.36	0.40
2:C:3367:SER:OG	2:C:3368:GLU:N	2.55	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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
2	C	3632/4128 (88%)	3344 (92%)	288 (8%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	L	3632/4128 (88%)	3343 (92%)	289 (8%)	0	100	100
All	All	7264/8256 (88%)	6687 (92%)	577 (8%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	C	3266/3671 (89%)	3265 (100%)	1 (0%)	100	100
2	L	3266/3671 (89%)	3265 (100%)	1 (0%)	100	100
All	All	6532/7342 (89%)	6530 (100%)	2 (0%)	100	100

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	L	925	GLN
2	C	925	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (79) such sidechains are listed below:

Mol	Chain	Res	Type
2	L	33	GLN
2	L	738	HIS
2	L	982	GLN
2	L	997	ASN
2	L	1055	ASN
2	L	1115	HIS
2	L	1142	HIS
2	L	1325	GLN
2	L	1418	HIS
2	L	1459	HIS
2	L	1477	HIS

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Mol	Chain	Res	Type
2	L	1552	HIS
2	L	1555	HIS
2	L	1613	HIS
2	L	1716	GLN
2	L	1721	HIS
2	L	1772	HIS
2	L	1980	ASN
2	L	2135	ASN
2	L	2301	GLN
2	L	2305	ASN
2	L	2348	GLN
2	L	2353	GLN
2	L	2380	ASN
2	L	2493	ASN
2	L	2553	HIS
2	L	2574	ASN
2	L	2784	GLN
2	L	2977	ASN
2	L	3084	GLN
2	L	3104	GLN
2	L	3185	ASN
2	L	3249	GLN
2	L	3278	GLN
2	L	3327	ASN
2	L	3577	GLN
2	L	3634	GLN
2	L	3743	HIS
2	L	3927	ASN
2	L	3969	ASN
2	L	4110	GLN
2	C	33	GLN
2	C	738	HIS
2	C	982	GLN
2	C	997	ASN
2	C	1069	HIS
2	C	1115	HIS
2	C	1142	HIS
2	C	1325	GLN
2	C	1418	HIS
2	C	1459	HIS
2	C	1552	HIS
2	C	1555	HIS

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Mol	Chain	Res	Type
2	C	1613	HIS
2	C	1691	GLN
2	C	1716	GLN
2	C	1721	HIS
2	C	1772	HIS
2	C	1980	ASN
2	C	2135	ASN
2	C	2301	GLN
2	C	2305	ASN
2	C	2348	GLN
2	C	2353	GLN
2	C	2493	ASN
2	C	2553	HIS
2	C	2574	ASN
2	C	2784	GLN
2	C	3084	GLN
2	C	3104	GLN
2	C	3185	ASN
2	C	3249	GLN
2	C	3327	ASN
2	C	3577	GLN
2	C	3634	GLN
2	C	3743	HIS
2	C	3927	ASN
2	C	3944	HIS
2	C	3969	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

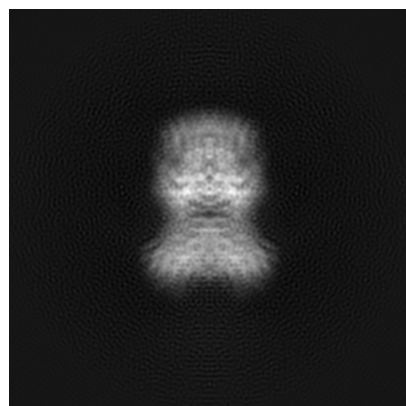
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-28731. These allow visual inspection of the internal detail of the map and identification of artifacts.

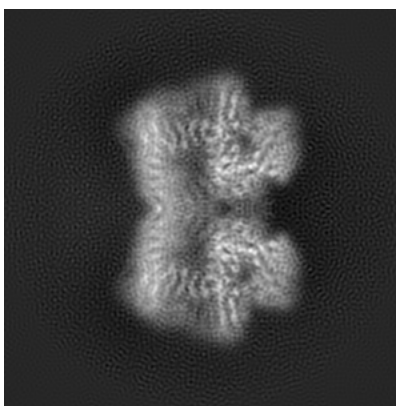
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

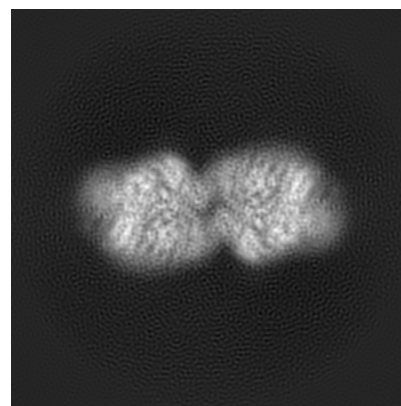
6.1.1 Primary map



X

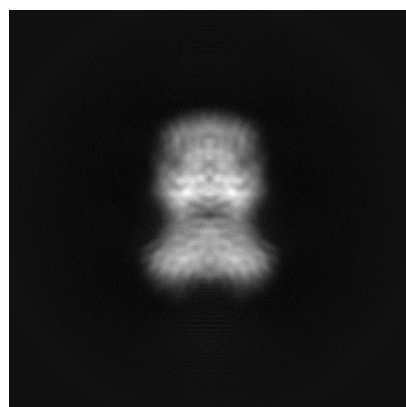


Y

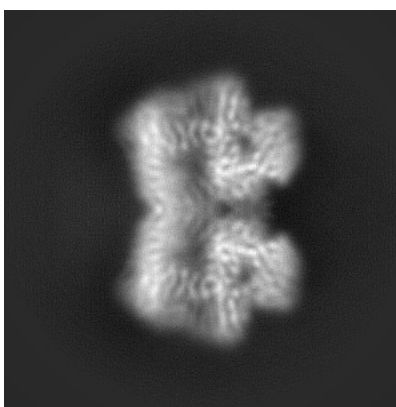


Z

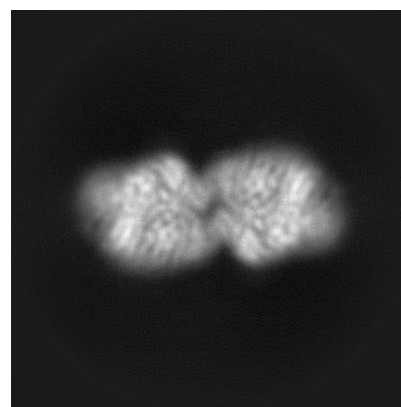
6.1.2 Raw map



X



Y

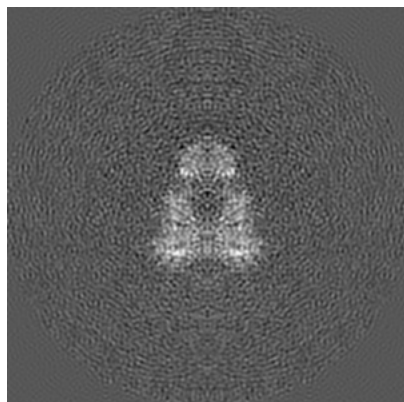


Z

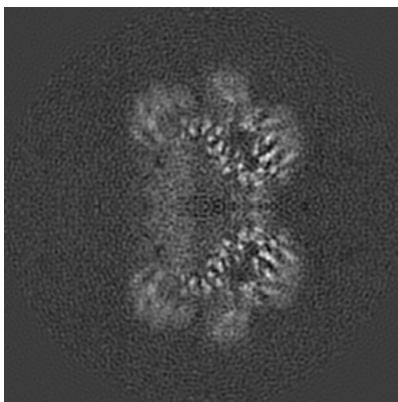
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

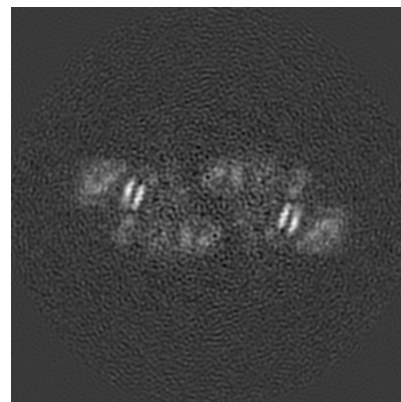
6.2.1 Primary map



X Index: 216

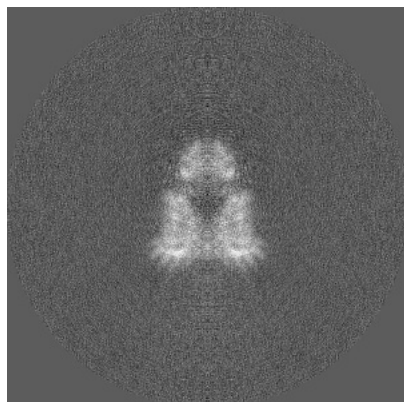


Y Index: 216

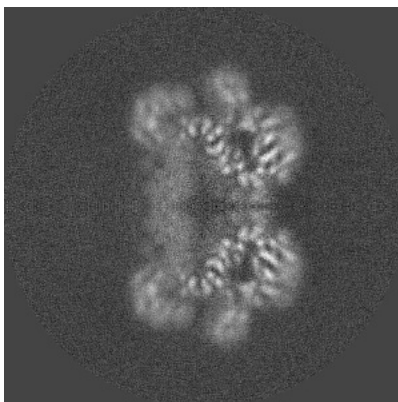


Z Index: 216

6.2.2 Raw map



X Index: 216



Y Index: 216

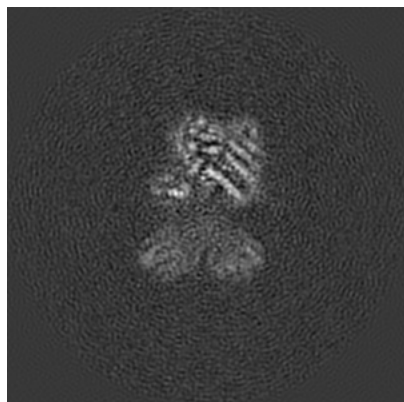


Z Index: 216

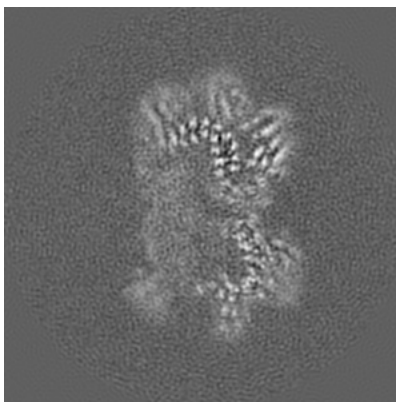
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

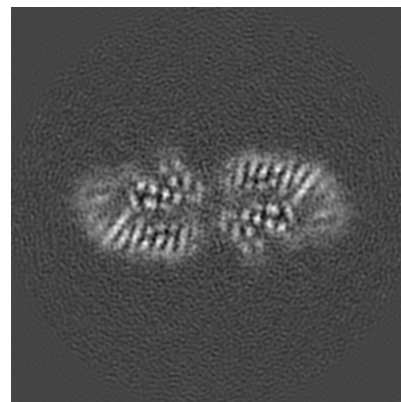
6.3.1 Primary map



X Index: 174

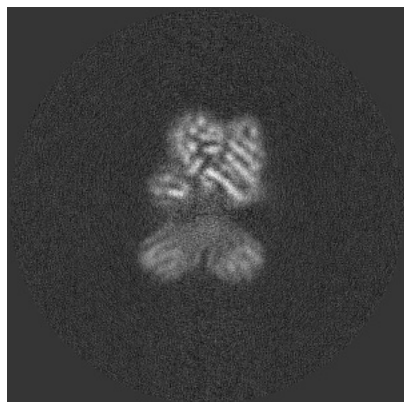


Y Index: 204

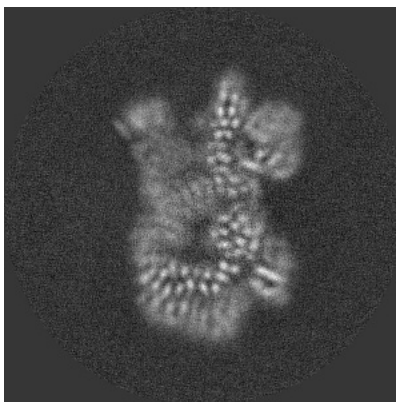


Z Index: 234

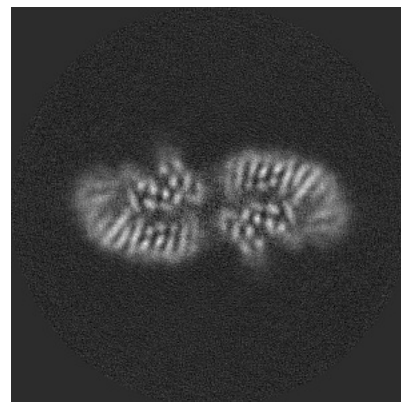
6.3.2 Raw map



X Index: 174



Y Index: 239

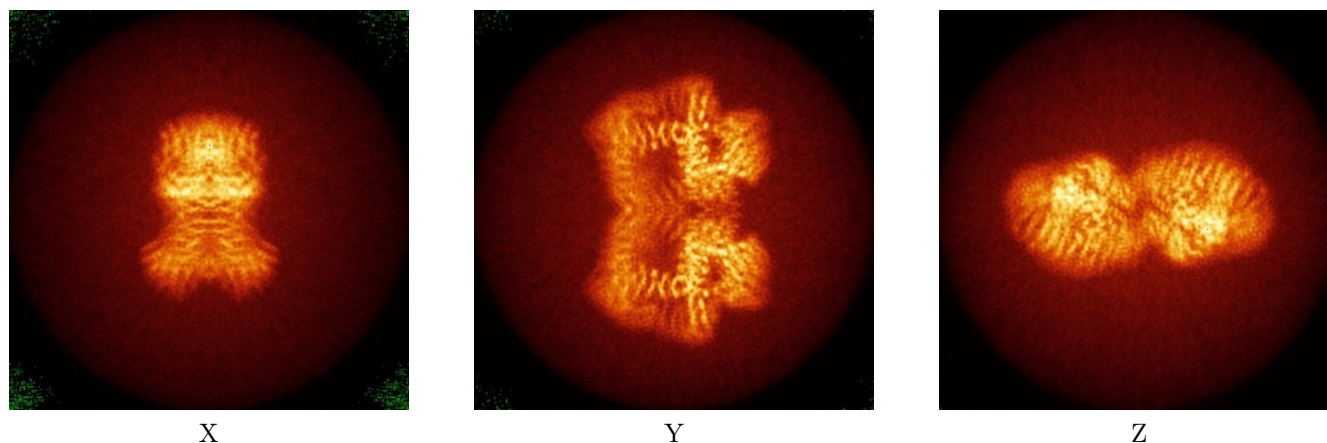


Z Index: 234

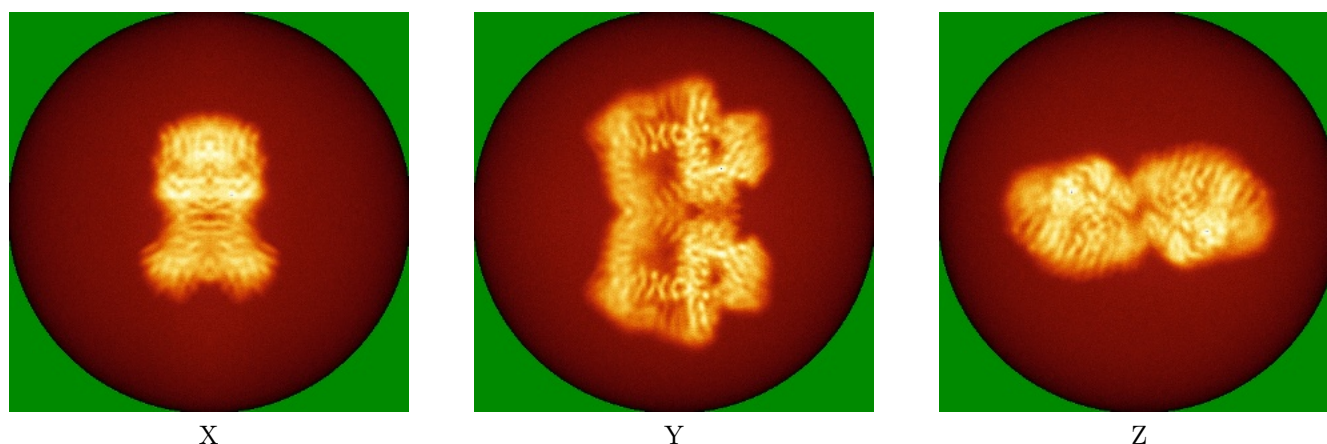
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



6.4.2 Raw map



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

6.5 Orthogonal surface views [i](#)

This section was not generated.

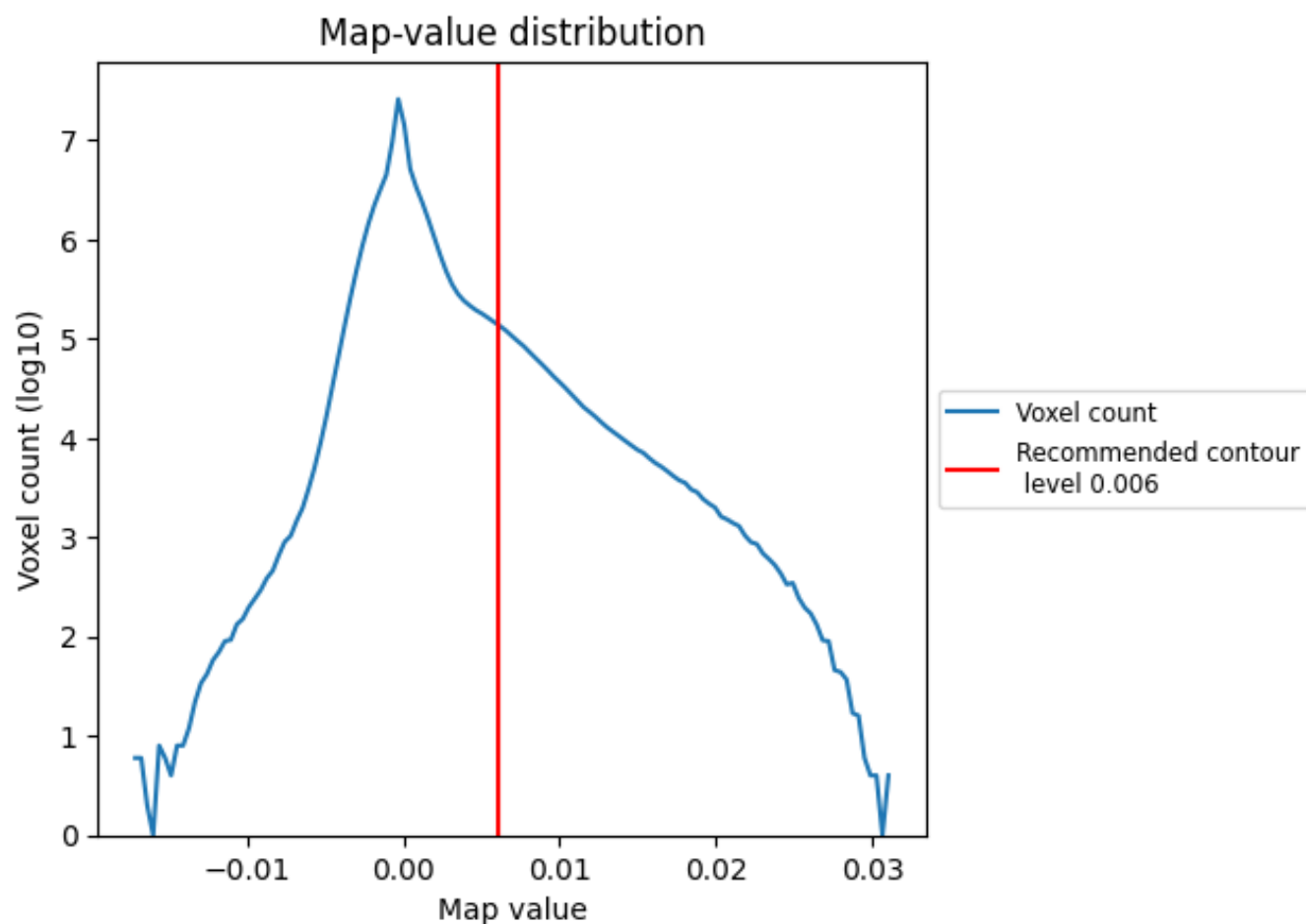
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

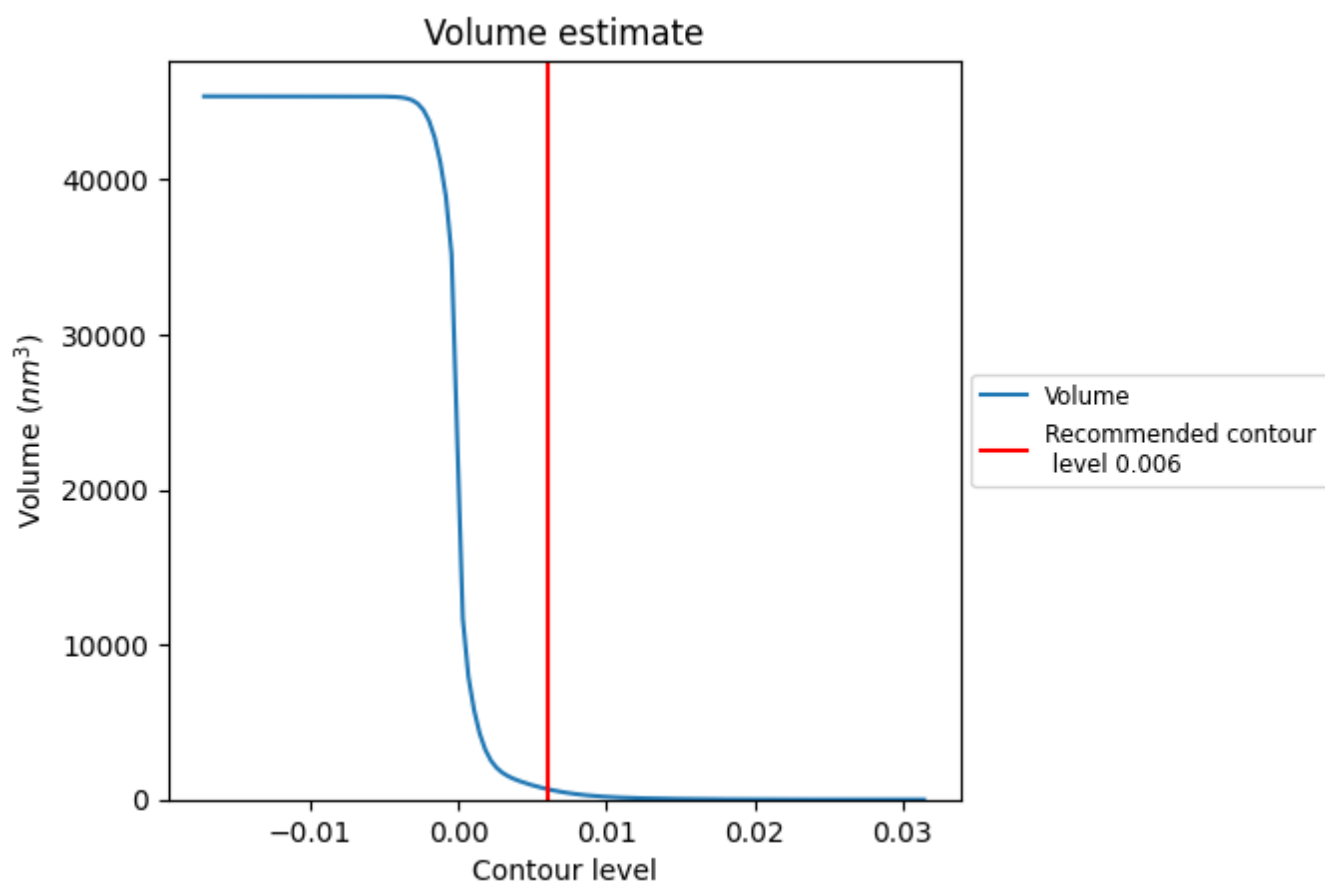
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

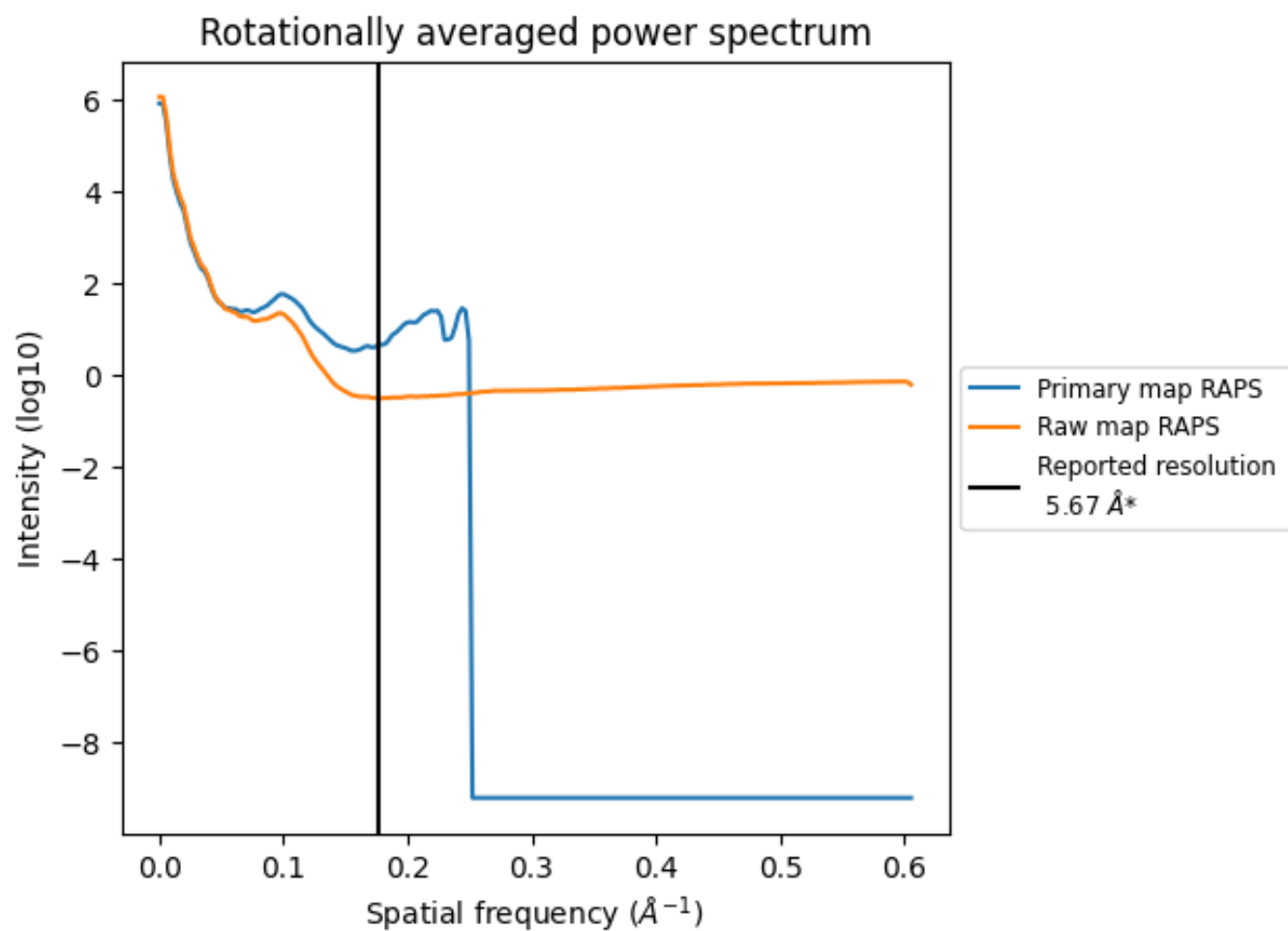
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 677 nm³; this corresponds to an approximate mass of 612 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

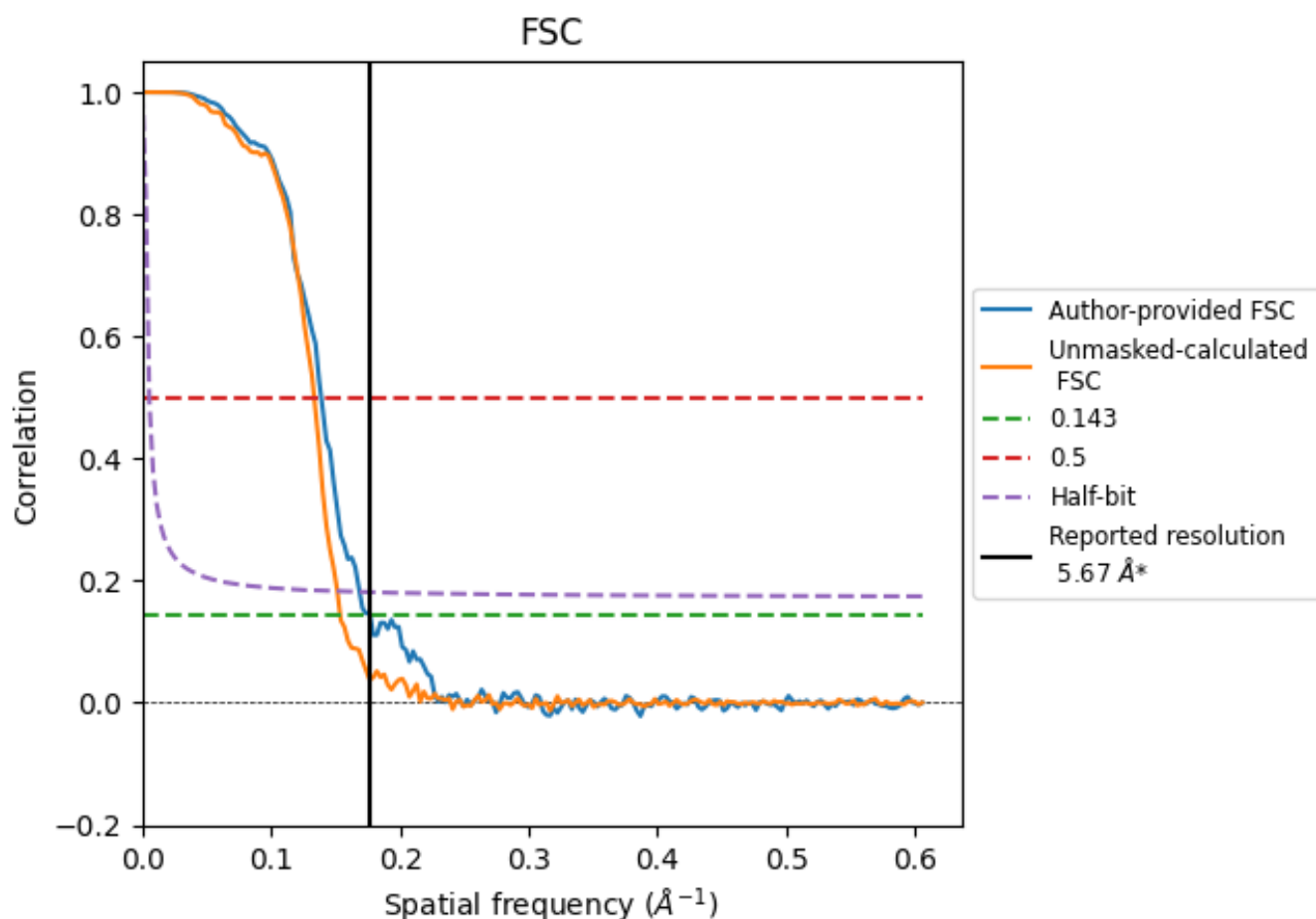


*Reported resolution corresponds to spatial frequency of 0.176 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.176 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	5.67	-	-
Author-provided FSC curve	5.65	7.19	5.92
Unmasked-calculated*	6.50	7.49	6.60

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.50 differs from the reported value 5.67 by more than 10 %

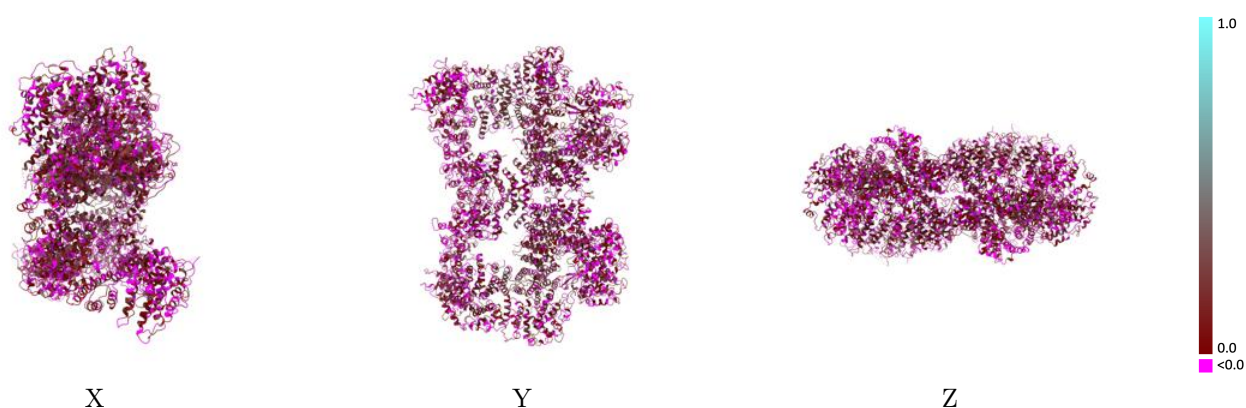
9 Map-model fit [i](#)

This section contains information regarding the fit between EMD map EMD-28731 and PDB model 8EZ9. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)

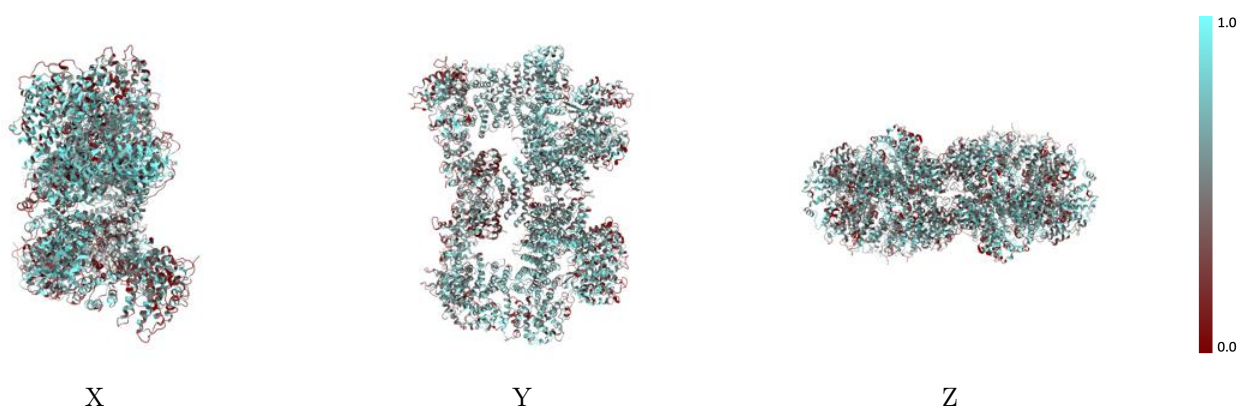
This section was not generated.

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



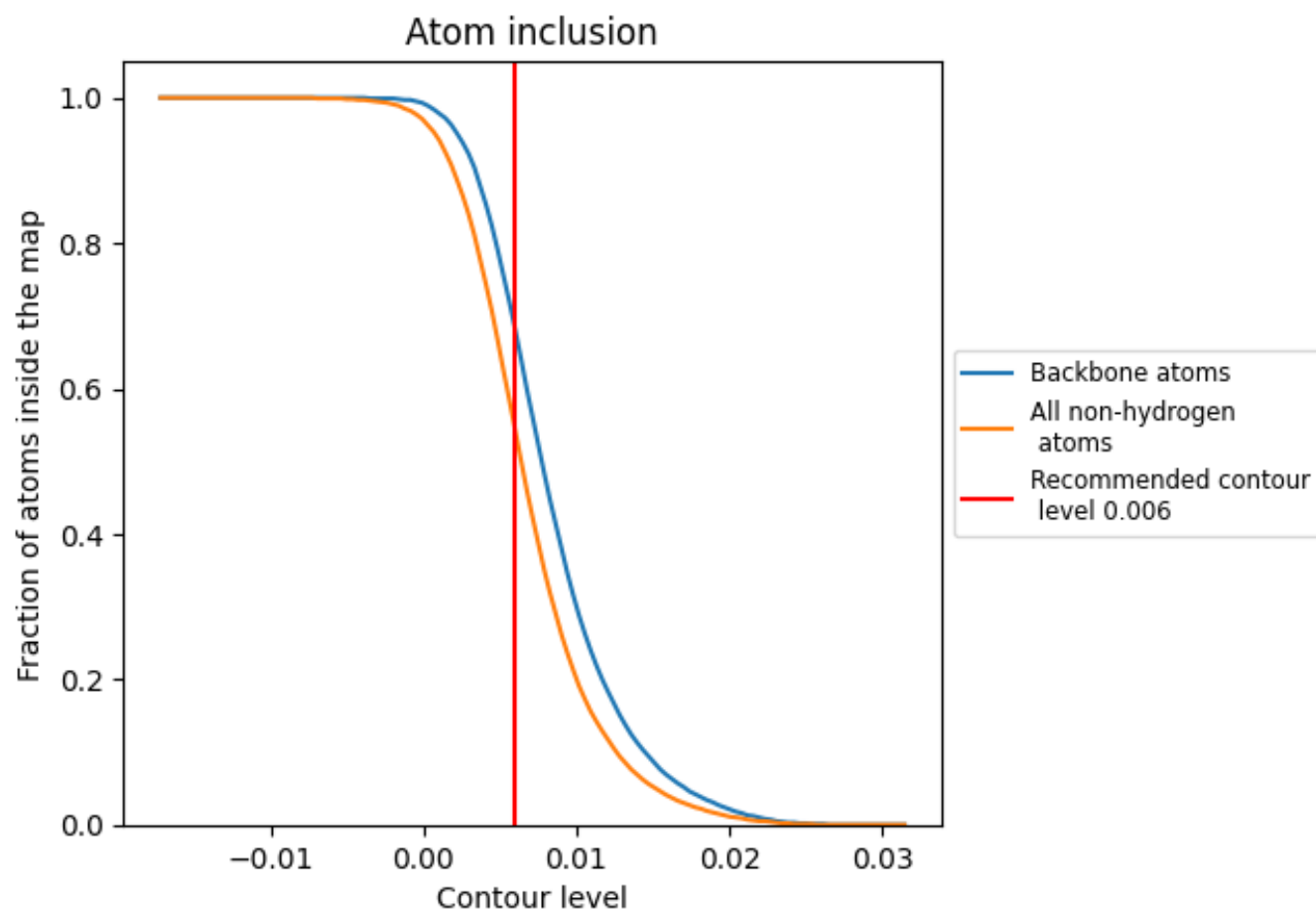
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.006).

9.4 Atom inclusion [i](#)



At the recommended contour level, 68% of all backbone atoms, 54% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.006) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5420	0.0740
C	0.5420	0.0740
L	0.5420	0.0720
Q	0.6040	0.2000
R	0.6240	0.1960

