



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 12:54 AM UTC

PDB ID : 6MU1 / pdb_00006mu1
EMDB ID : EMD-9243
Title : Structure of full-length IP3R1 channel bound with Adenophostin A
Authors : Serysheva, I.I.; Fan, G.; Baker, M.R.; Wang, Z.; Seryshev, A.; Ludtke, S.J.;
Baker, M.L.
Deposited on : 2018-10-22
Resolution : 4.10 Å(reported)

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:

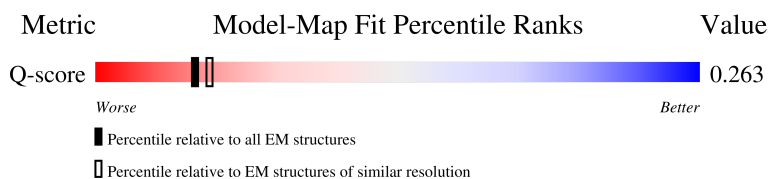
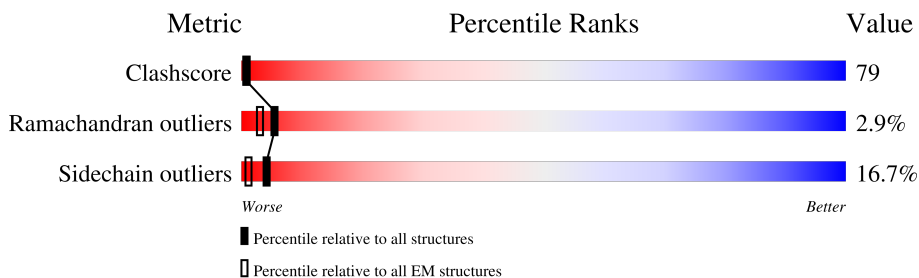
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data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

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	6458 (3.60 - 4.60)

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

Mol	Chain	Length	Quality of chain
1	A	2739	
1	B	2739	
1	C	2739	
1	D	2739	

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

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

2 Entry composition [i](#)

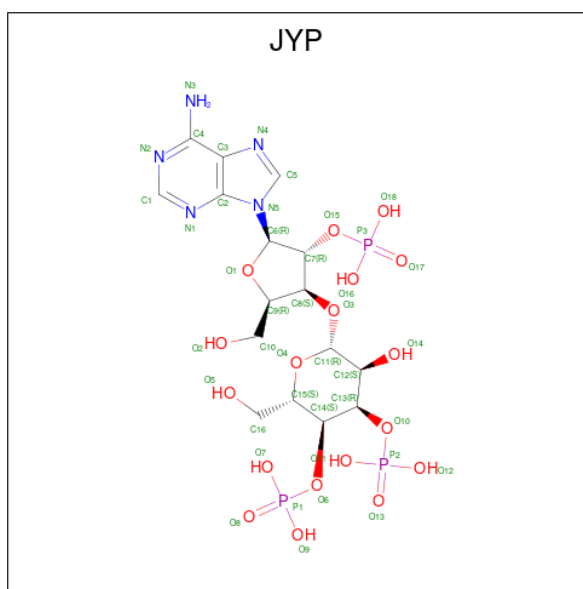
There are 2 unique types of molecules in this entry. The entry contains 50184 atoms, of which 20 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Inositol 1,4,5-trisphosphate receptor type 1.

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

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



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

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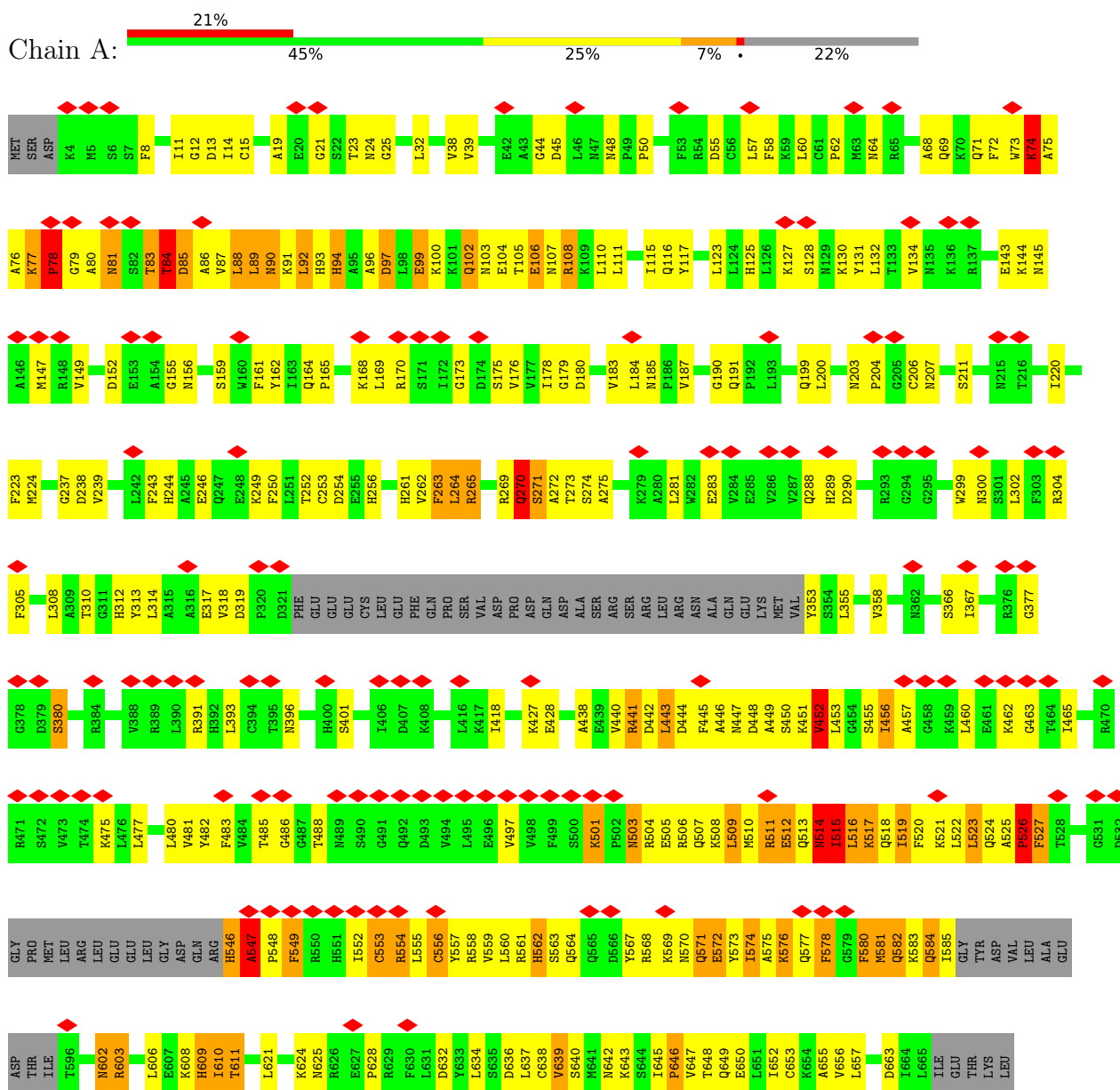
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Mol	Chain	Residues	Atoms						AltConf
2	D	1	Total	C	H	N	O	P	0
			47	16	5	5	18	3	

3 Residue-property plots

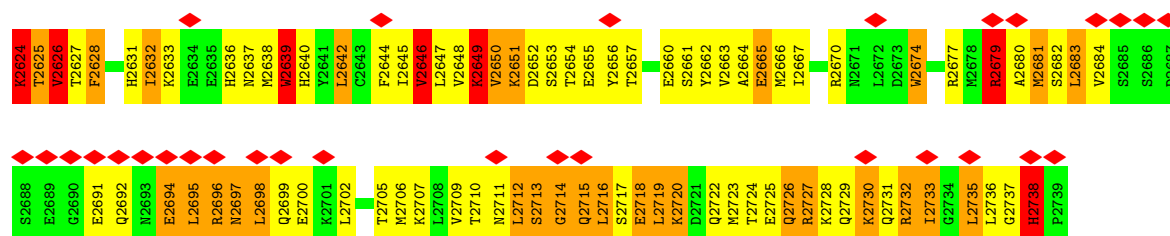
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

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

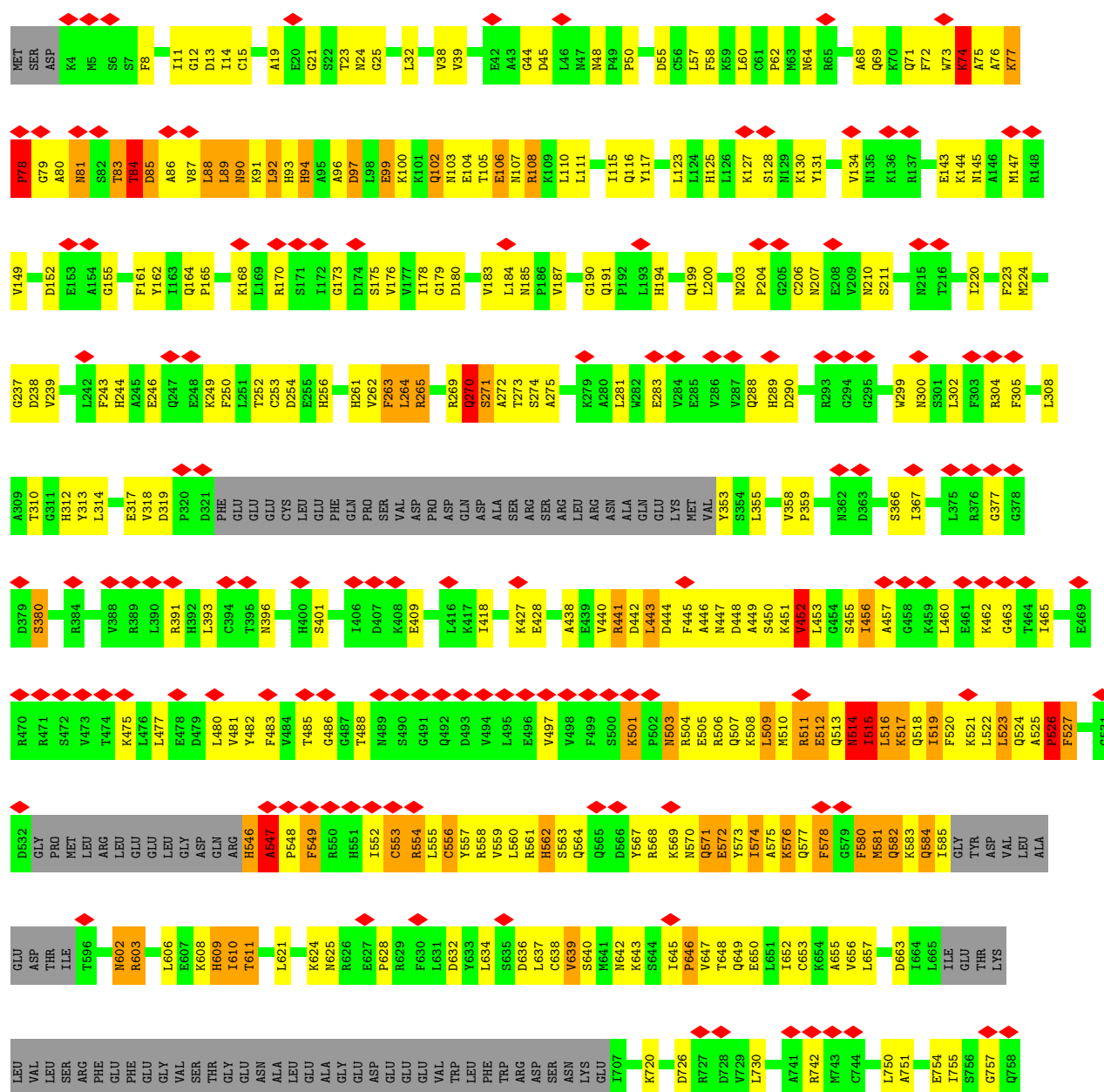




K2558	E2559	E2560	P2561	L2562	F2563	R2566	T2569	D2570	L2571	L2572	F2573	F2574	F2575	K2576	L2577	L2578	K2579	L2580	L2581	L2582	M2583	L2584	L2585	F2586	C2587	V2588	L2589	L2590	D2591	T2592	F2593	A2594	L2595	L2596	R2597	S2598	Q2601	E2605	L2606	L2607	K2608	T2609	L2610	C2611	L2612	L2613	L2616	E2617	R2618	L2619	K2620	F2621	D2622	N2623			
ALA	ASN	ASP	PHE	LEU	TYR	SER	ASP	VAL	CYS	ARG	VAL	GLU	THR	GLY	ASN	CYS	THR	SER	PRO	ALA	PRO	LYS	GLU	GLU	LEU	LEU	PRO	VAL	GLU	L2599	E2519	K2524	E2525	H2526	T2527	C2528	E2529	T2530	L2531	C2534	L2535	V2536	T2537	V2538	G2542	L2543	G2546	G2547	G2548	V2549	R2554	K2555	P2556	S2557			
S2414	L2415	L2416	L2417	F2418	D2419	V2420	Y2421	Y2422	R2423	E2424	T2425	L2426	L2427	L2428	N2429	V2430	I2431	K2432	S2433	Y2434	T2435	R2436	G2437	R2439	P2440	I2441	T2444	T2444	L2447	A2448	V2452	Y2453	S2456	L2461	I2468	L2469	E2470	VAL	ASP	ARG	LEU	PRO	ASN	GLU	THR	ALA	A2403	N2404	G2405	L2406	F2407	V2408	R2409	E2410	F2411	F2412	Y2413
P2362	T2363	L2364	F2365	L2366	L2367	G2368	A2369	F2360	N2361	V2362	C2363	N2364	K2365	I2366	I2367	F2368	L2369	K2370	S2371	F2372	N2375	C2376	G2377	T2378	L2379	T2380	R2381	R2384	L2385	T2386	V2387	L2388	D2389	V2390	E2391	F2392	L2393	Y2394	L2395	L2396	L2397	Y2398	L2399	L2400	L2401	C2402	A2403	N2404	G2405	L2406	F2407	V2408	R2409	E2410	F2411	F2412	Y2413
Y2291	F2294	Y2295	P2296	F2297	K2298	G2299	V2300	R2301	G2302	G2303	L2304	L2305	PRO	HIS	TRP	SER	GLY	LEU	LEU	TRP	THR	ALA	MET	LEU	ILE	SER	LEU	ALA	ILE	VAL	ILE	ALA	LEU	PRO	LYS	PRO	HIS	GLY	ILE	ARG	A2335	L2336	I2337	A2338	S2339	T2340	I2341	L2342	R2343	L2344	L2345	F2346	V2347	V2348	G2349	L2350	Q2351
L2225	T2231	E2232	R2233	D2234	E2235	Q2236	Q2237	S2238	K2239	L2240	N2241	D2242	F2243	F2244	L2245	R2246	E2247	S2248	D2249	L2250	F2251	N2252	E2253	N2254	N2255	N2256	Q2257	K2258	R2261	A2262	Q2263	P2264	Y2267	N2268	C2269	A2270	R2271	N2272	N2273	S2274	F2275	N2276	S2277	S2278	L2279	S2280	F2281	N2282	L2283	A2284	V2285	L2286	N2287	L2288	L2289	L2290	
E2143	D2144	G2145	S2148	A2160	H2161	Q2162	L2163	A2164	K2168	P2176	G2177	G2178	Q2179	V2180	D2181	E2182	D2183	E2184	A2185	L2186	E2187	F2188	Y2189	A2190	K2191	L2192	T2193	A2194	Q2195	T2196	E2197	L2198	V2199	R2200	L2201	D2202	R2203	T2204	M2205	E2206	Q2207	T2208	V2209	F2210	P2211	V2212	P2213	S2214	L2215	C2216	L2219	T2220	K2221				
V2030	A2031	L2032	TYR	GLN	Q2035	T2036	E2037	E2038	L2039	L2040	T2041	E2042	Y2043	G2046	C2047	C2048	H2049	N2053	H2058	E2059	S2060	N2061	G2062	L2063	D2064	N2072	K2079	K2080	A2092	R2103	H2104	D2105	S2106	E2107	E2110	R2111	Y2114	R2117	P2118	K2119	E2135	F2136	G2202	L2023	Y2024	L2025	N2026	E2027	K2028	N2029							
ASP	ASP	HIS	TYR	SER	GLN	SER	GLY	GLY	GLY	THR	ALA	THR	ASP	VAL	LYS	ASP	ALA	PRO	SER	ARG	LYS	LYS	GLY	PRO	THR	THR	ILE	THR	GLU	VAL	ARG	N1995	N1998	L1999	V2000	C2009	G2012	S2013	T2014	T2015	G2019	L2020	L2021	G2022	L2023	Y2024	L2025	N2026	E2027	K2028	N2029						
D1606	T1607	V1608	S1609	A1610	D1613	L1618	V1619	Q1620	A1621	E1622	R1632	P1633	E1634	L1635	L1636	F1637	P1638	G1650	G1651	F1652	C1653	C1654	H1659	E1665	E1666	N1667	R1680	T1684	K1685	D1686	R1687	G1688	Y1689	G1690	LYS	GLN	ILE	SER	ILE	THR	PHE	GLY	ASN	GLY	PRO	LEU	ALA	LEU	GLN	PRO							
GLY	GLY	PRO	SER	LYS	PRO	GLY	GLY	GLY	GLY	PRO	GLY	SER	GLY	THR	S1786	R1787	S1791	L1792	V1795	Q1796	C1797	H1798	L1799	D1800	K1801	E1802	N1806	L1807	V1808	I1809	D1810	L1811	T1812	M1813	M1814	S1817	D1818	F1821	H1822	M1836	T1837	Q1840	H1841	S1852	S1853	D1862											
V1875	T1879	ASP	LEU	ASN	GLY	GLY	LYS	ASP	GLU	VAL	ASP	ASP	ALA	PRO	SER	ARG	LYS	LYS	ALA	GLY	PRO	THR	THR	THR	ILE	THR	GLU	VAL	ARG	ASP	GLN	LEU	LEU	GLU	ALA	SER	ALA	LYS	ALA	PHE	THR	PHE	ARG	GLU	ASP	ALA	ASP	PRO									



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

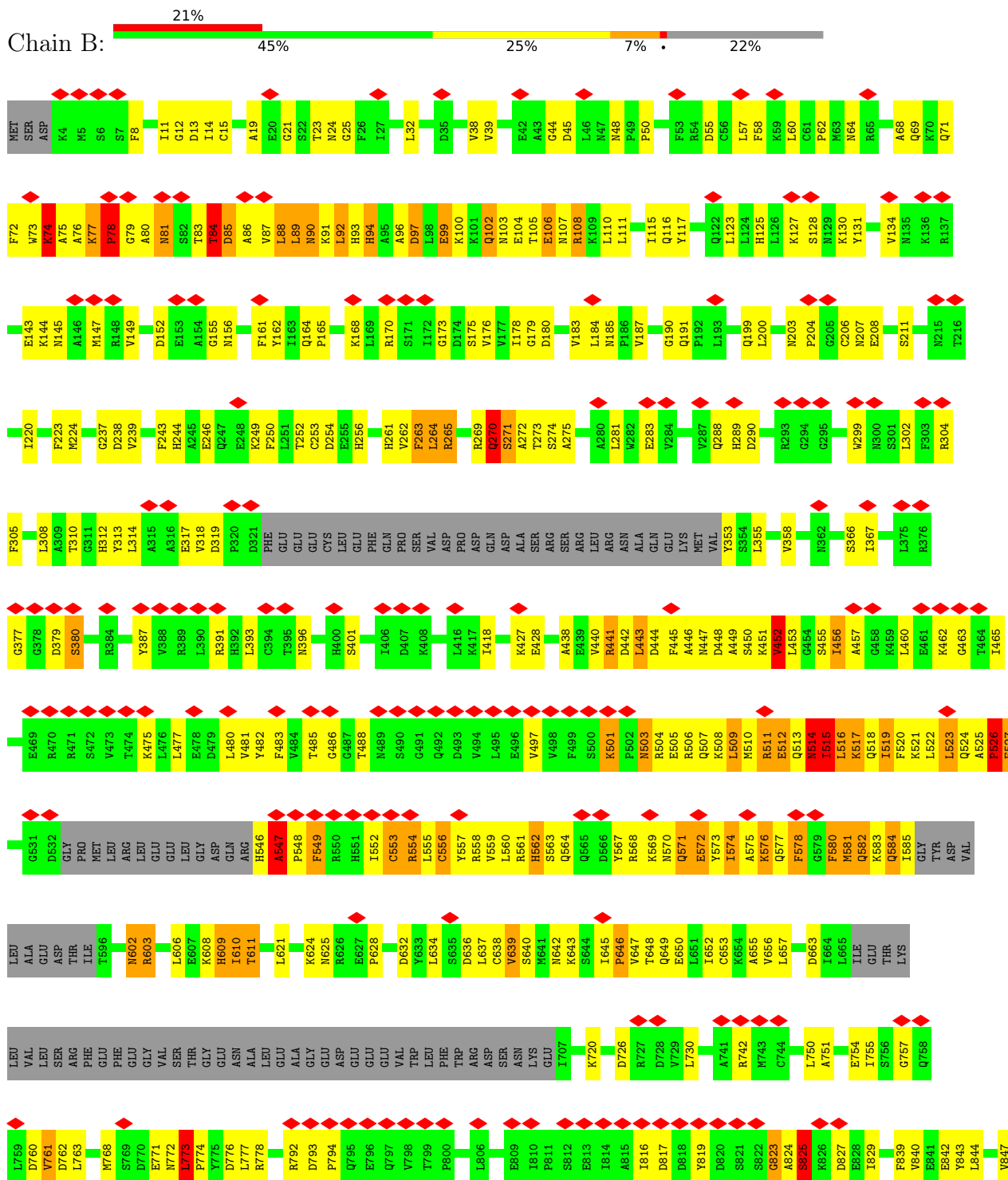








• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 1







Chain D:







4 Experimental information

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

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.91	39/12648 (0.3%)	1.56	279/16640 (1.7%)
1	B	0.91	39/12648 (0.3%)	1.56	279/16640 (1.7%)
1	C	0.91	39/12648 (0.3%)	1.56	279/16640 (1.7%)
1	D	0.91	40/12648 (0.3%)	1.56	280/16640 (1.7%)
All	All	0.91	157/50592 (0.3%)	1.56	1117/66560 (1.7%)

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

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

All (157) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1201	GLN	C-N	17.43	1.58	1.33
1	C	1201	GLN	C-N	17.39	1.58	1.33
1	A	1201	GLN	C-N	17.38	1.58	1.33
1	D	1201	GLN	C-N	17.36	1.57	1.33
1	C	2579	ILE	CA-C	-11.25	1.37	1.52
1	D	2579	ILE	CA-C	-11.24	1.37	1.52
1	B	2579	ILE	CA-C	-11.23	1.37	1.52
1	A	2579	ILE	CA-C	-11.20	1.37	1.52
1	B	2585	ILE	CA-C	-10.50	1.39	1.52
1	D	2585	ILE	CA-C	-10.49	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	2585	ILE	CA-C	-10.47	1.39	1.52
1	A	2585	ILE	CA-C	-10.46	1.39	1.52
1	D	2578	ILE	CA-C	-10.24	1.40	1.52
1	A	2578	ILE	CA-C	-10.22	1.40	1.52
1	B	2578	ILE	CA-C	-10.18	1.40	1.52
1	C	2578	ILE	CA-C	-10.17	1.40	1.52
1	B	2583	ASN	CA-CB	9.84	1.69	1.53
1	C	2583	ASN	CA-CB	9.82	1.69	1.53
1	D	2583	ASN	CA-CB	9.82	1.69	1.53
1	A	2583	ASN	CA-CB	9.81	1.69	1.53
1	C	2577	VAL	CA-C	-8.63	1.41	1.52
1	C	2578	ILE	N-CA	-8.60	1.36	1.46
1	A	2578	ILE	N-CA	-8.58	1.36	1.46
1	B	2578	ILE	N-CA	-8.58	1.36	1.46
1	A	2577	VAL	CA-C	-8.57	1.41	1.52
1	D	2577	VAL	CA-C	-8.57	1.41	1.52
1	D	2578	ILE	N-CA	-8.56	1.36	1.46
1	B	2577	VAL	CA-C	-8.54	1.41	1.52
1	A	2574	PHE	CA-C	-8.35	1.41	1.52
1	B	2574	PHE	CA-C	-8.34	1.41	1.52
1	D	2575	PHE	N-CA	-8.34	1.36	1.46
1	C	2575	PHE	N-CA	-8.34	1.36	1.46
1	C	2574	PHE	CA-C	-8.33	1.41	1.52
1	A	2575	PHE	N-CA	-8.32	1.36	1.46
1	D	2574	PHE	CA-C	-8.31	1.41	1.52
1	B	2575	PHE	N-CA	-8.27	1.36	1.46
1	C	2585	ILE	C-O	-8.22	1.14	1.24
1	D	2585	ILE	C-O	-8.21	1.14	1.24
1	B	2585	ILE	C-O	-8.20	1.14	1.24
1	A	2585	ILE	C-O	-8.18	1.14	1.24
1	B	2575	PHE	CA-C	-7.78	1.43	1.52
1	A	2575	PHE	CA-C	-7.75	1.43	1.52
1	D	2575	PHE	CA-C	-7.73	1.43	1.52
1	C	2575	PHE	CA-C	-7.71	1.43	1.52
1	A	2434	VAL	CA-C	7.71	1.62	1.52
1	D	2434	VAL	CA-C	7.70	1.62	1.52
1	C	2434	VAL	CA-C	7.68	1.62	1.52
1	B	2434	VAL	CA-C	7.64	1.62	1.52
1	A	2583	ASN	CB-CG	6.56	1.68	1.52
1	B	2583	ASN	CB-CG	6.55	1.68	1.52
1	C	1653	ILE	CA-C	6.55	1.61	1.52
1	C	2583	ASN	CB-CG	6.55	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	2583	ASN	CB-CG	6.55	1.68	1.52
1	A	1653	ILE	CA-C	6.53	1.61	1.52
1	D	1653	ILE	CA-C	6.51	1.61	1.52
1	B	1653	ILE	CA-C	6.49	1.60	1.52
1	A	2578	ILE	CA-CB	-6.40	1.46	1.54
1	D	2578	ILE	CA-CB	-6.38	1.46	1.54
1	C	2578	ILE	CA-CB	-6.37	1.46	1.54
1	B	2578	ILE	CA-CB	-6.33	1.46	1.54
1	B	2580	ILE	CA-C	-6.31	1.45	1.52
1	D	2580	ILE	CA-C	-6.29	1.45	1.52
1	C	2580	ILE	CA-C	-6.28	1.45	1.52
1	A	2580	ILE	CA-C	-6.26	1.45	1.52
1	C	2574	PHE	N-CA	-6.16	1.39	1.46
1	B	2574	PHE	N-CA	-6.14	1.39	1.46
1	A	2574	PHE	N-CA	-6.12	1.39	1.46
1	D	2574	PHE	N-CA	-6.11	1.39	1.46
1	C	2585	ILE	CA-CB	-6.09	1.46	1.54
1	A	2585	ILE	CA-CB	-6.07	1.46	1.54
1	B	2585	ILE	CA-CB	-6.07	1.46	1.54
1	D	2585	ILE	CA-CB	-6.02	1.47	1.54
1	D	2579	ILE	CA-CB	-6.01	1.48	1.55
1	A	2579	ILE	CA-CB	-5.97	1.48	1.55
1	B	2579	ILE	CA-CB	-5.97	1.48	1.55
1	C	2583	ASN	N-CA	5.93	1.53	1.46
1	C	2579	ILE	CA-CB	-5.92	1.48	1.55
1	B	2583	ASN	N-CA	5.91	1.53	1.46
1	A	2583	ASN	N-CA	5.89	1.53	1.46
1	C	2586	PHE	N-CA	-5.88	1.39	1.46
1	A	2586	PHE	N-CA	-5.88	1.39	1.46
1	B	1653	ILE	C-O	5.87	1.31	1.24
1	D	1653	ILE	C-O	5.87	1.31	1.24
1	D	2583	ASN	N-CA	5.87	1.53	1.46
1	B	2586	PHE	N-CA	-5.87	1.39	1.46
1	C	1982	ARG	C-O	-5.86	1.19	1.24
1	D	2586	PHE	N-CA	-5.85	1.39	1.46
1	A	1653	ILE	C-O	5.85	1.31	1.24
1	A	1982	ARG	C-O	-5.84	1.19	1.24
1	D	1982	ARG	C-O	-5.83	1.19	1.24
1	C	1653	ILE	C-O	5.83	1.31	1.24
1	B	1982	ARG	C-O	-5.80	1.19	1.24
1	D	2579	ILE	C-N	-5.76	1.26	1.33
1	A	2579	ILE	C-N	-5.76	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	2579	ILE	C-N	-5.75	1.26	1.33
1	B	2579	ILE	C-N	-5.73	1.26	1.33
1	B	2581	VAL	C-O	-5.71	1.16	1.24
1	C	2581	VAL	C-O	-5.70	1.16	1.24
1	A	2581	VAL	C-O	-5.69	1.16	1.24
1	D	2581	VAL	C-O	-5.68	1.16	1.24
1	D	2580	ILE	N-CA	-5.62	1.40	1.46
1	A	2580	ILE	N-CA	-5.57	1.40	1.46
1	A	2582	LEU	CA-C	-5.57	1.45	1.52
1	C	2582	LEU	CA-C	-5.57	1.45	1.52
1	C	2580	ILE	N-CA	-5.54	1.40	1.46
1	D	2582	LEU	CA-C	-5.53	1.45	1.52
1	B	2580	ILE	N-CA	-5.52	1.40	1.46
1	B	632	ASP	C-O	5.51	1.30	1.24
1	B	2582	LEU	CA-C	-5.51	1.45	1.52
1	C	632	ASP	C-O	5.50	1.30	1.24
1	A	632	ASP	C-O	5.49	1.30	1.24
1	C	1324	LYS	CA-C	5.48	1.60	1.52
1	B	1324	LYS	CA-C	5.47	1.60	1.52
1	D	1324	LYS	CA-C	5.46	1.60	1.52
1	A	1653	ILE	N-CA	5.45	1.53	1.46
1	A	1324	LYS	CA-C	5.45	1.60	1.52
1	B	1653	ILE	N-CA	5.44	1.53	1.46
1	D	632	ASP	C-O	5.44	1.30	1.24
1	B	2575	PHE	CA-CB	-5.43	1.44	1.53
1	A	2586	PHE	C-N	-5.42	1.25	1.33
1	D	2575	PHE	CA-CB	-5.42	1.44	1.53
1	D	1653	ILE	N-CA	5.41	1.53	1.46
1	C	2575	PHE	CA-CB	-5.41	1.44	1.53
1	D	2586	PHE	C-N	-5.41	1.25	1.33
1	A	2575	PHE	CA-CB	-5.40	1.44	1.53
1	C	1653	ILE	N-CA	5.39	1.53	1.46
1	C	2586	PHE	C-N	-5.38	1.25	1.33
1	B	2586	PHE	C-N	-5.38	1.25	1.33
1	D	2583	ASN	C-O	-5.38	1.17	1.24
1	B	2583	ASN	C-O	-5.35	1.17	1.24
1	B	2639	TRP	C-O	-5.35	1.18	1.24
1	C	2583	ASN	C-O	-5.35	1.17	1.24
1	A	2583	ASN	C-O	-5.34	1.17	1.24
1	D	2639	TRP	C-O	-5.34	1.18	1.24
1	C	2639	TRP	C-O	-5.30	1.18	1.24
1	D	2427	LEU	C-O	-5.30	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2639	TRP	C-O	-5.29	1.18	1.24
1	C	2242	ASP	N-CA	-5.29	1.40	1.46
1	C	2427	LEU	C-O	-5.29	1.17	1.24
1	A	2427	LEU	C-O	-5.28	1.17	1.24
1	B	2427	LEU	C-O	-5.26	1.17	1.24
1	B	2242	ASP	N-CA	-5.25	1.40	1.46
1	D	2242	ASP	N-CA	-5.25	1.40	1.46
1	A	2242	ASP	N-CA	-5.24	1.40	1.46
1	D	2626	VAL	CA-C	-5.23	1.46	1.52
1	B	2626	VAL	CA-C	-5.22	1.46	1.52
1	C	2626	VAL	CA-C	-5.18	1.46	1.52
1	C	628	PRO	CA-C	5.18	1.59	1.52
1	A	2626	VAL	CA-C	-5.18	1.46	1.52
1	D	628	PRO	CA-C	5.14	1.59	1.52
1	B	628	PRO	CA-C	5.10	1.59	1.52
1	A	628	PRO	CA-C	5.10	1.59	1.52
1	A	1505	ARG	N-CA	5.07	1.52	1.46
1	B	1505	ARG	N-CA	5.07	1.52	1.46
1	C	1505	ARG	N-CA	5.06	1.52	1.46
1	D	1505	ARG	N-CA	5.03	1.52	1.46
1	D	2674	TRP	C-N	-5.01	1.24	1.33

All (1117) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1389	LYS	N-CA-C	22.96	135.64	111.07
1	D	1389	LYS	N-CA-C	22.96	135.64	111.07
1	A	1389	LYS	N-CA-C	22.95	135.62	111.07
1	B	1389	LYS	N-CA-C	22.90	135.57	111.07
1	D	2240	ILE	N-CA-C	21.91	135.60	110.62
1	A	2240	ILE	N-CA-C	21.88	135.56	110.62
1	C	2240	ILE	N-CA-C	21.87	135.55	110.62
1	B	2240	ILE	N-CA-C	21.85	135.53	110.62
1	B	647	VAL	N-CA-C	-21.65	84.86	113.00
1	A	647	VAL	N-CA-C	-21.65	84.86	113.00
1	D	647	VAL	N-CA-C	-21.65	84.86	113.00
1	C	647	VAL	N-CA-C	-21.63	84.88	113.00
1	B	2579	ILE	CA-C-N	-17.01	99.13	120.56
1	B	2579	ILE	C-N-CA	-17.01	99.13	120.56
1	A	2579	ILE	CA-C-N	-16.99	99.15	120.56
1	A	2579	ILE	C-N-CA	-16.99	99.15	120.56
1	C	2579	ILE	CA-C-N	-16.98	99.16	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2579	ILE	C-N-CA	-16.98	99.16	120.56
1	D	2579	ILE	CA-C-N	-16.97	99.18	120.56
1	D	2579	ILE	C-N-CA	-16.97	99.18	120.56
1	D	1619	VAL	N-CA-C	15.97	126.49	111.48
1	A	1619	VAL	N-CA-C	15.96	126.48	111.48
1	B	1619	VAL	N-CA-C	15.95	126.47	111.48
1	C	1619	VAL	N-CA-C	15.90	126.43	111.48
1	D	887	LEU	N-CA-C	-15.66	94.31	111.07
1	C	887	LEU	N-CA-C	-15.62	94.35	111.07
1	A	887	LEU	N-CA-C	-15.62	94.35	111.07
1	B	887	LEU	N-CA-C	-15.61	94.36	111.07
1	C	773	LEU	CA-C-N	15.34	136.07	119.05
1	C	773	LEU	C-N-CA	15.34	136.07	119.05
1	D	773	LEU	CA-C-N	15.31	136.05	119.05
1	D	773	LEU	C-N-CA	15.31	136.05	119.05
1	A	773	LEU	CA-C-N	15.31	136.05	119.05
1	A	773	LEU	C-N-CA	15.31	136.05	119.05
1	B	773	LEU	CA-C-N	15.29	136.03	119.05
1	B	773	LEU	C-N-CA	15.29	136.03	119.05
1	D	1505	ARG	N-CA-C	15.17	131.22	113.02
1	B	1505	ARG	N-CA-C	15.15	131.20	113.02
1	A	1505	ARG	N-CA-C	15.13	131.18	113.02
1	C	1505	ARG	N-CA-C	15.13	131.17	113.02
1	D	2350	LEU	N-CA-C	-14.21	95.53	112.86
1	A	2350	LEU	N-CA-C	-14.20	95.54	112.86
1	C	2350	LEU	N-CA-C	-14.19	95.55	112.86
1	B	2350	LEU	N-CA-C	-14.19	95.55	112.86
1	C	1308	TYR	N-CA-C	14.04	131.37	110.30
1	A	1308	TYR	N-CA-C	14.03	131.35	110.30
1	D	1308	TYR	N-CA-C	14.04	131.35	110.30
1	B	1308	TYR	N-CA-C	14.00	131.30	110.30
1	A	628	PRO	N-CA-C	13.95	132.91	113.53
1	D	628	PRO	N-CA-C	13.95	132.91	113.53
1	C	628	PRO	N-CA-C	13.93	132.89	113.53
1	B	628	PRO	N-CA-C	13.93	132.89	113.53
1	D	1336	ASN	CA-C-N	13.78	142.22	123.20
1	D	1336	ASN	C-N-CA	13.78	142.22	123.20
1	B	1336	ASN	CA-C-N	13.78	142.21	123.20
1	B	1336	ASN	C-N-CA	13.78	142.21	123.20
1	A	1336	ASN	CA-C-N	13.77	142.21	123.20
1	A	1336	ASN	C-N-CA	13.77	142.21	123.20
1	C	1336	ASN	CA-C-N	13.77	142.21	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1336	ASN	C-N-CA	13.77	142.21	123.20
1	B	512	GLU	N-CA-C	13.69	125.72	111.07
1	A	512	GLU	N-CA-C	13.66	125.69	111.07
1	C	512	GLU	N-CA-C	13.66	125.69	111.07
1	D	512	GLU	N-CA-C	13.63	125.65	111.07
1	A	2191	LYS	N-CA-C	-12.60	97.76	112.87
1	B	2191	LYS	N-CA-C	-12.60	97.76	112.87
1	D	2191	LYS	N-CA-C	-12.59	97.76	112.87
1	C	2191	LYS	N-CA-C	-12.59	97.76	112.87
1	C	2425	GLU	N-CA-C	11.88	123.78	111.07
1	B	1387	GLU	N-CA-C	11.87	126.95	108.79
1	B	2425	GLU	N-CA-C	11.86	123.76	111.07
1	A	2425	GLU	N-CA-C	11.85	123.75	111.07
1	C	1387	GLU	N-CA-C	11.85	126.92	108.79
1	D	1387	GLU	N-CA-C	11.85	126.92	108.79
1	A	1387	GLU	N-CA-C	11.85	126.92	108.79
1	D	2425	GLU	N-CA-C	11.84	123.74	111.07
1	C	2695	LEU	N-CA-C	11.49	124.54	110.41
1	B	2695	LEU	N-CA-C	11.48	124.53	110.41
1	A	2695	LEU	N-CA-C	11.48	124.53	110.41
1	D	2061	ASN	N-CA-C	11.47	123.87	111.36
1	D	2695	LEU	N-CA-C	11.47	124.52	110.41
1	B	2061	ASN	N-CA-C	11.46	123.85	111.36
1	A	2061	ASN	N-CA-C	11.44	123.83	111.36
1	C	2061	ASN	N-CA-C	11.39	123.78	111.36
1	B	2694	GLU	N-CA-C	11.26	126.83	109.60
1	A	2694	GLU	N-CA-C	11.24	126.81	109.60
1	C	2694	GLU	N-CA-C	11.24	126.80	109.60
1	D	2694	GLU	N-CA-C	11.24	126.80	109.60
1	A	887	LEU	CA-C-N	-11.02	105.52	120.28
1	A	887	LEU	C-N-CA	-11.02	105.52	120.28
1	C	887	LEU	CA-C-N	-11.00	105.54	120.28
1	C	887	LEU	C-N-CA	-11.00	105.54	120.28
1	D	887	LEU	CA-C-N	-10.99	105.55	120.28
1	D	887	LEU	C-N-CA	-10.99	105.55	120.28
1	B	887	LEU	CA-C-N	-10.97	105.57	120.28
1	B	887	LEU	C-N-CA	-10.97	105.57	120.28
1	B	603	ARG	N-CA-C	-10.83	99.49	111.07
1	A	603	ARG	N-CA-C	-10.81	99.50	111.07
1	D	603	ARG	N-CA-C	-10.81	99.51	111.07
1	D	2263	GLN	CA-C-N	10.80	131.03	119.05
1	D	2263	GLN	C-N-CA	10.80	131.03	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	603	ARG	N-CA-C	-10.79	99.52	111.07
1	A	2263	GLN	CA-C-N	10.78	131.01	119.05
1	A	2263	GLN	C-N-CA	10.78	131.01	119.05
1	B	2263	GLN	CA-C-N	10.74	130.97	119.05
1	B	2263	GLN	C-N-CA	10.74	130.97	119.05
1	C	2263	GLN	CA-C-N	10.74	130.97	119.05
1	C	2263	GLN	C-N-CA	10.74	130.97	119.05
1	A	2291	VAL	CB-CA-C	-10.73	98.24	111.97
1	C	2291	VAL	CB-CA-C	-10.72	98.25	111.97
1	D	2291	VAL	CB-CA-C	-10.71	98.26	111.97
1	B	2291	VAL	CB-CA-C	-10.69	98.29	111.97
1	B	2559	GLU	N-CA-C	-10.57	90.12	108.52
1	A	2559	GLU	N-CA-C	-10.55	90.16	108.52
1	C	2559	GLU	N-CA-C	-10.55	90.16	108.52
1	D	2559	GLU	N-CA-C	-10.53	90.19	108.52
1	D	1411	THR	N-CA-C	10.52	126.68	109.95
1	B	1411	THR	N-CA-C	10.51	126.66	109.95
1	A	1411	THR	N-CA-C	10.51	126.66	109.95
1	C	1411	THR	N-CA-C	10.50	126.65	109.95
1	A	2583	ASN	N-CA-C	-10.48	99.66	111.82
1	D	2583	ASN	N-CA-C	-10.48	99.67	111.82
1	C	2583	ASN	N-CA-C	-10.47	99.67	111.82
1	B	2583	ASN	N-CA-C	-10.46	99.69	111.82
1	B	2619	ASP	N-CA-C	10.33	122.54	111.28
1	A	2619	ASP	N-CA-C	10.33	122.54	111.28
1	D	2619	ASP	N-CA-C	10.33	122.54	111.28
1	C	2619	ASP	N-CA-C	10.31	122.52	111.28
1	C	1636	LEU	N-CA-C	-10.23	100.21	111.36
1	B	1636	LEU	N-CA-C	-10.22	100.22	111.36
1	A	1636	LEU	N-CA-C	-10.21	100.23	111.36
1	C	2578	ILE	CA-C-N	-10.21	110.48	122.63
1	C	2578	ILE	C-N-CA	-10.21	110.48	122.63
1	D	1636	LEU	N-CA-C	-10.19	100.25	111.36
1	B	2578	ILE	CA-C-N	-10.18	110.52	122.63
1	B	2578	ILE	C-N-CA	-10.18	110.52	122.63
1	A	2578	ILE	CA-C-N	-10.17	110.53	122.63
1	A	2578	ILE	C-N-CA	-10.17	110.53	122.63
1	D	2578	ILE	CA-C-N	-10.16	110.54	122.63
1	D	2578	ILE	C-N-CA	-10.16	110.54	122.63
1	B	793	ASP	CA-C-N	-10.14	107.16	119.84
1	B	793	ASP	C-N-CA	-10.14	107.16	119.84
1	A	793	ASP	CA-C-N	-10.13	107.17	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	793	ASP	C-N-CA	-10.13	107.17	119.84
1	C	793	ASP	CA-C-N	-10.12	107.20	119.84
1	C	793	ASP	C-N-CA	-10.12	107.20	119.84
1	D	793	ASP	CA-C-N	-10.12	107.20	119.84
1	D	793	ASP	C-N-CA	-10.12	107.20	119.84
1	D	74	LYS	N-CA-C	-9.98	98.98	111.75
1	B	2625	THR	N-CA-C	9.98	124.30	109.24
1	C	74	LYS	N-CA-C	-9.97	98.99	111.75
1	D	2625	THR	N-CA-C	9.96	124.28	109.24
1	B	74	LYS	N-CA-C	-9.96	99.01	111.75
1	A	2625	THR	N-CA-C	9.95	124.27	109.24
1	A	74	LYS	N-CA-C	-9.94	99.02	111.75
1	D	2273	MET	N-CA-C	9.94	123.04	111.11
1	C	2273	MET	N-CA-C	9.94	123.04	111.11
1	B	2273	MET	N-CA-C	9.93	123.03	111.11
1	A	2273	MET	N-CA-C	9.93	123.03	111.11
1	C	2625	THR	N-CA-C	9.93	124.23	109.24
1	D	823	GLY	N-CA-C	-9.84	98.15	111.54
1	B	823	GLY	N-CA-C	-9.84	98.16	111.54
1	D	1260	ASN	N-CA-C	9.83	124.49	110.23
1	A	823	GLY	N-CA-C	-9.82	98.19	111.54
1	A	1260	ASN	N-CA-C	9.81	124.46	110.23
1	C	823	GLY	N-CA-C	-9.81	98.20	111.54
1	C	1260	ASN	N-CA-C	9.81	124.45	110.23
1	B	1260	ASN	N-CA-C	9.80	124.44	110.23
1	B	757	GLY	N-CA-C	9.74	124.28	112.49
1	D	2072	ASN	N-CA-C	9.74	123.95	109.24
1	C	2053	ASN	N-CA-C	-9.73	100.63	111.14
1	B	2053	ASN	N-CA-C	-9.73	100.63	111.14
1	D	757	GLY	N-CA-C	9.73	124.27	112.49
1	D	2053	ASN	N-CA-C	-9.73	100.63	111.14
1	A	757	GLY	N-CA-C	9.73	124.26	112.49
1	C	757	GLY	N-CA-C	9.72	124.26	112.49
1	B	2072	ASN	N-CA-C	9.72	123.92	109.24
1	C	1433	ASP	N-CA-C	-9.72	98.16	111.28
1	A	1433	ASP	N-CA-C	-9.71	98.17	111.28
1	A	2072	ASN	N-CA-C	9.71	123.91	109.24
1	A	2053	ASN	N-CA-C	-9.71	100.65	111.14
1	D	1433	ASP	N-CA-C	-9.71	98.17	111.28
1	B	1433	ASP	N-CA-C	-9.69	98.19	111.28
1	C	2072	ASN	N-CA-C	9.69	123.88	109.24
1	C	2117	ARG	CA-C-N	9.68	129.93	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2117	ARG	C-N-CA	9.68	129.93	119.28
1	B	2117	ARG	CA-C-N	9.67	129.92	119.28
1	B	2117	ARG	C-N-CA	9.67	129.92	119.28
1	D	2117	ARG	CA-C-N	9.67	129.92	119.28
1	D	2117	ARG	C-N-CA	9.67	129.92	119.28
1	A	2117	ARG	CA-C-N	9.67	129.91	119.28
1	A	2117	ARG	C-N-CA	9.67	129.91	119.28
1	D	2586	PHE	N-CA-CB	-9.44	96.32	110.01
1	B	1388	GLY	N-CA-C	9.43	135.53	113.18
1	D	1388	GLY	N-CA-C	9.43	135.52	113.18
1	A	1388	GLY	N-CA-C	9.42	135.51	113.18
1	C	1388	GLY	N-CA-C	9.42	135.50	113.18
1	A	2586	PHE	N-CA-CB	-9.41	96.37	110.01
1	C	2586	PHE	N-CA-CB	-9.40	96.38	110.01
1	B	2586	PHE	N-CA-CB	-9.40	96.38	110.01
1	D	1621	ALA	N-CA-C	-9.37	101.02	111.14
1	A	1621	ALA	N-CA-C	-9.36	101.03	111.14
1	B	1621	ALA	N-CA-C	-9.34	101.05	111.14
1	C	1621	ALA	N-CA-C	-9.33	101.07	111.14
1	D	2713	SER	N-CA-C	9.29	124.61	112.72
1	A	2713	SER	N-CA-C	9.29	124.61	112.72
1	B	2713	SER	N-CA-C	9.28	124.60	112.72
1	C	2713	SER	N-CA-C	9.27	124.59	112.72
1	C	792	ARG	N-CA-C	-9.22	101.23	111.28
1	B	792	ARG	N-CA-C	-9.20	101.25	111.28
1	D	792	ARG	N-CA-C	-9.18	101.27	111.28
1	B	611	THR	N-CA-C	-9.18	96.10	109.59
1	C	1270	ALA	N-CA-C	9.18	120.89	111.07
1	A	1270	ALA	N-CA-C	9.17	120.89	111.07
1	A	792	ARG	N-CA-C	-9.17	101.28	111.28
1	A	1201	GLN	CA-C-N	-9.17	107.67	122.34
1	A	1201	GLN	C-N-CA	-9.17	107.67	122.34
1	A	611	THR	N-CA-C	-9.17	96.11	109.59
1	C	1201	GLN	CA-C-N	-9.17	107.67	122.34
1	C	1201	GLN	C-N-CA	-9.17	107.67	122.34
1	C	611	THR	N-CA-C	-9.16	96.13	109.59
1	B	1201	GLN	CA-C-N	-9.16	107.69	122.34
1	B	1201	GLN	C-N-CA	-9.16	107.69	122.34
1	D	1201	GLN	CA-C-N	-9.15	107.69	122.34
1	D	1201	GLN	C-N-CA	-9.15	107.69	122.34
1	B	1270	ALA	N-CA-C	9.15	120.86	111.07
1	D	1270	ALA	N-CA-C	9.14	120.85	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	611	THR	N-CA-C	-9.14	96.16	109.59
1	B	2387	VAL	N-CA-C	9.03	119.83	110.62
1	B	730	LEU	N-CA-C	9.02	120.72	111.07
1	D	730	LEU	N-CA-C	9.02	120.72	111.07
1	A	730	LEU	N-CA-C	9.01	120.71	111.07
1	A	2387	VAL	N-CA-C	9.01	119.81	110.62
1	C	730	LEU	N-CA-C	8.99	120.69	111.07
1	D	2583	ASN	N-CA-CB	8.99	124.22	110.28
1	A	2583	ASN	N-CA-CB	8.98	124.21	110.28
1	C	2387	VAL	N-CA-C	8.98	119.78	110.62
1	D	2387	VAL	N-CA-C	8.98	119.78	110.62
1	B	2583	ASN	N-CA-CB	8.97	124.19	110.28
1	C	2583	ASN	N-CA-CB	8.96	124.17	110.28
1	B	2027	GLU	CA-C-N	-8.92	103.52	121.18
1	B	2027	GLU	C-N-CA	-8.92	103.52	121.18
1	A	2027	GLU	CA-C-N	-8.89	103.58	121.18
1	A	2027	GLU	C-N-CA	-8.89	103.58	121.18
1	C	2027	GLU	CA-C-N	-8.88	103.61	121.18
1	C	2027	GLU	C-N-CA	-8.88	103.61	121.18
1	D	2027	GLU	CA-C-N	-8.87	103.62	121.18
1	D	2027	GLU	C-N-CA	-8.87	103.62	121.18
1	B	1086	HIS	N-CA-C	-8.84	101.65	111.28
1	A	1086	HIS	N-CA-C	-8.81	101.67	111.28
1	C	1086	HIS	N-CA-C	-8.81	101.68	111.28
1	D	1086	HIS	N-CA-C	-8.79	101.70	111.28
1	B	2119	LYS	N-CA-C	8.71	121.56	108.31
1	A	2119	LYS	N-CA-C	8.71	121.54	108.31
1	C	2119	LYS	N-CA-C	8.70	121.53	108.31
1	D	2119	LYS	N-CA-C	8.68	121.50	108.31
1	D	998	LYS	CA-C-N	-8.66	109.18	120.44
1	D	998	LYS	C-N-CA	-8.66	109.18	120.44
1	A	998	LYS	CA-C-N	-8.65	109.19	120.44
1	A	998	LYS	C-N-CA	-8.65	109.19	120.44
1	C	998	LYS	CA-C-N	-8.63	109.22	120.44
1	C	998	LYS	C-N-CA	-8.63	109.22	120.44
1	B	998	LYS	CA-C-N	-8.63	109.22	120.44
1	B	998	LYS	C-N-CA	-8.63	109.22	120.44
1	B	83	THR	CA-C-N	-8.51	105.30	121.54
1	B	83	THR	C-N-CA	-8.51	105.30	121.54
1	A	83	THR	CA-C-N	-8.50	105.30	121.54
1	A	83	THR	C-N-CA	-8.50	105.30	121.54
1	D	83	THR	CA-C-N	-8.50	105.30	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	83	THR	C-N-CA	-8.50	105.30	121.54
1	C	83	THR	CA-C-N	-8.50	105.31	121.54
1	C	83	THR	C-N-CA	-8.50	105.31	121.54
1	C	503	ASN	N-CA-C	8.46	123.00	110.30
1	B	503	ASN	N-CA-C	8.45	122.98	110.30
1	A	503	ASN	N-CA-C	8.45	122.97	110.30
1	D	503	ASN	N-CA-C	8.42	122.93	110.30
1	D	547	ALA	CA-C-N	8.36	128.32	119.05
1	D	547	ALA	C-N-CA	8.36	128.32	119.05
1	C	547	ALA	CA-C-N	8.34	128.31	119.05
1	C	547	ALA	C-N-CA	8.34	128.31	119.05
1	B	2061	ASN	CA-C-N	-8.33	105.08	121.41
1	B	2061	ASN	C-N-CA	-8.33	105.08	121.41
1	A	2061	ASN	CA-C-N	-8.31	105.11	121.41
1	A	2061	ASN	C-N-CA	-8.31	105.11	121.41
1	C	2061	ASN	CA-C-N	-8.31	105.13	121.41
1	C	2061	ASN	C-N-CA	-8.31	105.13	121.41
1	A	547	ALA	CA-C-N	8.30	128.27	119.05
1	A	547	ALA	C-N-CA	8.30	128.27	119.05
1	D	2061	ASN	CA-C-N	-8.30	105.15	121.41
1	D	2061	ASN	C-N-CA	-8.30	105.15	121.41
1	B	547	ALA	CA-C-N	8.29	128.25	119.05
1	B	547	ALA	C-N-CA	8.29	128.25	119.05
1	C	78	PRO	CA-N-CD	-8.21	100.51	112.00
1	B	78	PRO	CA-N-CD	-8.18	100.55	112.00
1	A	602	ASN	CA-C-N	-8.18	109.81	120.44
1	A	602	ASN	C-N-CA	-8.18	109.81	120.44
1	A	78	PRO	CA-N-CD	-8.18	100.55	112.00
1	B	602	ASN	CA-C-N	-8.17	109.83	120.44
1	B	602	ASN	C-N-CA	-8.17	109.83	120.44
1	D	78	PRO	CA-N-CD	-8.16	100.58	112.00
1	D	602	ASN	CA-C-N	-8.15	109.85	120.44
1	D	602	ASN	C-N-CA	-8.15	109.85	120.44
1	C	602	ASN	CA-C-N	-8.13	109.87	120.44
1	C	602	ASN	C-N-CA	-8.13	109.87	120.44
1	C	1666	GLU	CA-C-N	-8.13	106.01	121.54
1	C	1666	GLU	C-N-CA	-8.13	106.01	121.54
1	C	995	CYS	N-CA-C	8.13	120.14	111.28
1	D	995	CYS	N-CA-C	8.13	120.14	111.28
1	A	1666	GLU	CA-C-N	-8.12	106.02	121.54
1	A	1666	GLU	C-N-CA	-8.12	106.02	121.54
1	B	1666	GLU	CA-C-N	-8.12	106.03	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1666	GLU	C-N-CA	-8.12	106.03	121.54
1	D	1666	GLU	CA-C-N	-8.12	106.03	121.54
1	D	1666	GLU	C-N-CA	-8.12	106.03	121.54
1	A	995	CYS	N-CA-C	8.11	120.12	111.28
1	B	995	CYS	N-CA-C	8.08	120.09	111.28
1	B	2573	PHE	N-CA-C	-8.07	102.43	111.07
1	A	2573	PHE	N-CA-C	-8.05	102.45	111.07
1	C	84	THR	N-CA-C	-8.05	93.65	110.80
1	B	84	THR	N-CA-C	-8.05	93.65	110.80
1	D	84	THR	N-CA-C	-8.04	93.67	110.80
1	A	84	THR	N-CA-C	-8.04	93.67	110.80
1	C	996	ILE	N-CA-C	8.03	119.90	108.17
1	C	2573	PHE	N-CA-C	-8.03	102.47	111.07
1	D	2573	PHE	N-CA-C	-8.02	102.48	111.07
1	A	996	ILE	N-CA-C	8.02	119.88	108.17
1	D	996	ILE	N-CA-C	8.01	119.87	108.17
1	B	996	ILE	N-CA-C	8.01	119.87	108.17
1	C	2240	ILE	CB-CA-C	-7.87	101.74	112.04
1	D	2240	ILE	CB-CA-C	-7.86	101.74	112.04
1	A	2240	ILE	CB-CA-C	-7.85	101.75	112.04
1	C	289	HIS	CA-C-N	-7.84	110.16	120.67
1	C	289	HIS	C-N-CA	-7.84	110.16	120.67
1	B	2240	ILE	CB-CA-C	-7.84	101.77	112.04
1	D	289	HIS	CA-C-N	-7.84	110.16	120.67
1	D	289	HIS	C-N-CA	-7.84	110.16	120.67
1	A	289	HIS	CA-C-N	-7.84	110.16	120.67
1	A	289	HIS	C-N-CA	-7.84	110.16	120.67
1	C	572	GLU	N-CA-C	7.83	119.45	111.07
1	B	289	HIS	CA-C-N	-7.83	110.18	120.67
1	B	289	HIS	C-N-CA	-7.83	110.18	120.67
1	A	572	GLU	N-CA-C	7.82	119.44	111.07
1	D	572	GLU	N-CA-C	7.82	119.44	111.07
1	B	572	GLU	N-CA-C	7.81	119.43	111.07
1	D	2562	LEU	N-CA-C	-7.79	101.90	111.33
1	A	2626	VAL	CB-CA-C	-7.79	98.52	111.29
1	C	2626	VAL	CB-CA-C	-7.78	98.52	111.29
1	A	1862	ASP	N-CA-C	-7.78	102.80	111.28
1	A	2562	LEU	N-CA-C	-7.77	101.93	111.33
1	B	2626	VAL	CB-CA-C	-7.77	98.55	111.29
1	D	1862	ASP	N-CA-C	-7.76	102.82	111.28
1	B	2255	ASN	CA-C-N	7.76	131.71	120.38
1	B	2255	ASN	C-N-CA	7.76	131.71	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2562	LEU	N-CA-C	-7.76	101.94	111.33
1	C	2562	LEU	N-CA-C	-7.75	101.95	111.33
1	A	2255	ASN	CA-C-N	7.75	131.69	120.38
1	A	2255	ASN	C-N-CA	7.75	131.69	120.38
1	D	2626	VAL	CB-CA-C	-7.74	98.59	111.29
1	D	624	LYS	N-CA-C	-7.74	103.83	113.28
1	D	2255	ASN	CA-C-N	7.74	131.68	120.38
1	D	2255	ASN	C-N-CA	7.74	131.68	120.38
1	C	1862	ASP	N-CA-C	-7.74	102.84	111.28
1	B	1862	ASP	N-CA-C	-7.73	102.85	111.28
1	A	2142	GLY	N-CA-C	7.72	120.39	111.36
1	C	2255	ASN	CA-C-N	7.71	131.64	120.38
1	C	2255	ASN	C-N-CA	7.71	131.64	120.38
1	D	2584	LEU	CA-CB-CG	-7.71	89.33	116.30
1	C	2142	GLY	N-CA-C	7.70	120.37	111.36
1	A	2584	LEU	CA-CB-CG	-7.70	89.36	116.30
1	B	2584	LEU	CA-CB-CG	-7.70	89.36	116.30
1	B	2142	GLY	N-CA-C	7.68	120.35	111.36
1	C	2584	LEU	CA-CB-CG	-7.68	89.41	116.30
1	C	2239	LYS	CA-C-N	7.66	131.33	120.53
1	C	2239	LYS	C-N-CA	7.66	131.33	120.53
1	D	2239	LYS	CA-C-N	7.66	131.32	120.53
1	D	2239	LYS	C-N-CA	7.66	131.32	120.53
1	A	2239	LYS	CA-C-N	7.64	131.31	120.53
1	A	2239	LYS	C-N-CA	7.64	131.31	120.53
1	D	2142	GLY	N-CA-C	7.64	120.30	111.36
1	B	2239	LYS	CA-C-N	7.63	131.29	120.53
1	B	2239	LYS	C-N-CA	7.63	131.29	120.53
1	B	624	LYS	N-CA-C	-7.55	103.80	113.16
1	A	624	LYS	N-CA-C	-7.51	103.85	113.16
1	C	624	LYS	N-CA-C	-7.51	103.85	113.16
1	B	636	ASP	N-CA-C	7.49	119.69	108.31
1	A	636	ASP	N-CA-C	7.47	119.67	108.31
1	D	636	ASP	N-CA-C	7.47	119.66	108.31
1	C	636	ASP	N-CA-C	7.46	119.65	108.31
1	D	1632	ARG	CA-C-N	7.46	127.33	119.05
1	D	1632	ARG	C-N-CA	7.46	127.33	119.05
1	C	1632	ARG	CA-C-N	7.45	127.32	119.05
1	C	1632	ARG	C-N-CA	7.45	127.32	119.05
1	D	1250	GLN	N-CA-C	-7.45	102.14	112.12
1	D	2618	ARG	N-CA-C	7.44	126.66	110.80
1	B	2618	ARG	N-CA-C	7.44	126.65	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1250	GLN	N-CA-C	-7.44	102.15	112.12
1	A	1250	GLN	N-CA-C	-7.43	102.16	112.12
1	A	2618	ARG	N-CA-C	7.43	126.63	110.80
1	A	1632	ARG	CA-C-N	7.42	127.29	119.05
1	A	1632	ARG	C-N-CA	7.42	127.29	119.05
1	C	2618	ARG	N-CA-C	7.42	126.60	110.80
1	B	1517	PHE	N-CA-C	7.42	120.99	110.23
1	C	1250	GLN	N-CA-C	-7.40	102.20	112.12
1	C	270	GLN	CA-C-N	-7.40	107.41	121.54
1	C	270	GLN	C-N-CA	-7.40	107.41	121.54
1	B	1632	ARG	CA-C-N	7.40	127.26	119.05
1	B	1632	ARG	C-N-CA	7.40	127.26	119.05
1	A	270	GLN	CA-C-N	-7.39	107.42	121.54
1	A	270	GLN	C-N-CA	-7.39	107.42	121.54
1	A	1517	PHE	N-CA-C	7.39	120.94	110.23
1	D	270	GLN	CA-C-N	-7.38	107.44	121.54
1	D	270	GLN	C-N-CA	-7.38	107.44	121.54
1	B	270	GLN	CA-C-N	-7.38	107.45	121.54
1	B	270	GLN	C-N-CA	-7.38	107.45	121.54
1	D	1517	PHE	N-CA-C	7.38	120.93	110.23
1	C	1517	PHE	N-CA-C	7.37	120.92	110.23
1	D	2583	ASN	CA-CB-CG	7.36	119.96	112.60
1	A	2583	ASN	CA-CB-CG	7.35	119.95	112.60
1	C	2583	ASN	CA-CB-CG	7.34	119.94	112.60
1	B	2583	ASN	CA-CB-CG	7.33	119.93	112.60
1	A	742	ARG	CA-C-N	-7.32	110.70	121.24
1	A	742	ARG	C-N-CA	-7.32	110.70	121.24
1	D	2575	PHE	CA-CB-CG	-7.31	106.49	113.80
1	C	742	ARG	CA-C-N	-7.31	110.72	121.24
1	C	742	ARG	C-N-CA	-7.31	110.72	121.24
1	B	742	ARG	CA-C-N	-7.30	110.73	121.24
1	B	742	ARG	C-N-CA	-7.30	110.73	121.24
1	A	2575	PHE	CA-CB-CG	-7.29	106.51	113.80
1	D	742	ARG	CA-C-N	-7.29	110.74	121.24
1	D	742	ARG	C-N-CA	-7.29	110.74	121.24
1	D	2714	GLY	N-CA-C	7.29	121.48	112.73
1	C	2714	GLY	N-CA-C	7.29	121.48	112.73
1	B	2575	PHE	CA-CB-CG	-7.29	106.51	113.80
1	C	2575	PHE	CA-CB-CG	-7.29	106.51	113.80
1	D	576	LYS	CA-C-N	7.28	130.04	120.28
1	D	576	LYS	C-N-CA	7.28	130.04	120.28
1	A	2714	GLY	N-CA-C	7.26	121.44	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	576	LYS	CA-C-N	7.24	129.98	120.28
1	A	576	LYS	C-N-CA	7.24	129.98	120.28
1	B	576	LYS	CA-C-N	7.23	129.97	120.28
1	B	576	LYS	C-N-CA	7.23	129.97	120.28
1	C	576	LYS	CA-C-N	7.23	129.97	120.28
1	C	576	LYS	C-N-CA	7.23	129.97	120.28
1	B	2714	GLY	N-CA-C	7.21	121.39	112.73
1	B	2215	ILE	N-CA-C	-7.19	106.49	113.53
1	A	2215	ILE	N-CA-C	-7.17	106.50	113.53
1	D	2215	ILE	N-CA-C	-7.17	106.50	113.53
1	C	1094	LEU	CA-C-N	7.14	129.85	120.28
1	C	1094	LEU	C-N-CA	7.14	129.85	120.28
1	D	511	ARG	CA-C-N	7.14	129.72	120.44
1	D	511	ARG	C-N-CA	7.14	129.72	120.44
1	A	1202	GLN	N-CA-C	7.13	121.38	107.98
1	B	1202	GLN	N-CA-C	7.13	121.38	107.98
1	C	1202	GLN	N-CA-C	7.12	121.37	107.98
1	A	1094	LEU	CA-C-N	7.12	129.82	120.28
1	A	1094	LEU	C-N-CA	7.12	129.82	120.28
1	D	1202	GLN	N-CA-C	7.12	121.36	107.98
1	A	511	ARG	CA-C-N	7.11	129.69	120.44
1	A	511	ARG	C-N-CA	7.11	129.69	120.44
1	C	511	ARG	CA-C-N	7.11	129.68	120.44
1	C	511	ARG	C-N-CA	7.11	129.68	120.44
1	B	2586	PHE	CA-C-O	7.11	128.29	120.82
1	D	1094	LEU	CA-C-N	7.11	129.81	120.28
1	D	1094	LEU	C-N-CA	7.11	129.81	120.28
1	B	511	ARG	CA-C-N	7.11	129.68	120.44
1	B	511	ARG	C-N-CA	7.11	129.68	120.44
1	C	2586	PHE	CA-C-O	7.11	128.28	120.82
1	B	1094	LEU	CA-C-N	7.11	129.80	120.28
1	B	1094	LEU	C-N-CA	7.11	129.80	120.28
1	C	2103	ARG	N-CA-C	7.09	119.09	111.36
1	A	2586	PHE	CA-C-O	7.08	128.25	120.82
1	B	2103	ARG	N-CA-C	7.07	119.07	111.36
1	A	2103	ARG	N-CA-C	7.06	119.06	111.36
1	D	2586	PHE	CA-C-O	7.04	128.22	120.82
1	D	2103	ARG	N-CA-C	7.02	119.01	111.36
1	A	526	PRO	CA-N-CD	-6.97	102.24	112.00
1	C	526	PRO	CA-N-CD	-6.96	102.25	112.00
1	D	526	PRO	CA-N-CD	-6.96	102.25	112.00
1	B	526	PRO	CA-N-CD	-6.96	102.25	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2337	ILE	N-CA-C	6.95	117.73	110.72
1	A	2337	ILE	N-CA-C	6.93	117.72	110.72
1	D	2337	ILE	N-CA-C	6.92	117.71	110.72
1	A	2578	ILE	N-CA-CB	6.92	119.42	110.57
1	C	2578	ILE	N-CA-CB	6.92	119.42	110.57
1	B	2337	ILE	N-CA-C	6.91	117.70	110.72
1	B	2578	ILE	N-CA-CB	6.90	119.40	110.57
1	D	2013	SER	N-CA-C	-6.90	101.92	111.30
1	D	2578	ILE	N-CA-CB	6.89	119.39	110.57
1	A	2013	SER	N-CA-C	-6.89	101.93	111.30
1	C	2013	SER	N-CA-C	-6.88	101.94	111.30
1	B	2013	SER	N-CA-C	-6.88	101.94	111.30
1	D	380	SER	CA-C-N	-6.86	108.85	120.58
1	D	380	SER	C-N-CA	-6.86	108.85	120.58
1	C	380	SER	CA-C-N	-6.84	108.89	120.58
1	C	380	SER	C-N-CA	-6.84	108.89	120.58
1	B	380	SER	CA-C-N	-6.83	108.90	120.58
1	B	380	SER	C-N-CA	-6.83	108.90	120.58
1	A	380	SER	CA-C-N	-6.83	108.90	120.58
1	A	380	SER	C-N-CA	-6.83	108.90	120.58
1	D	2423	ARG	CA-C-N	-6.83	111.82	121.72
1	D	2423	ARG	C-N-CA	-6.83	111.82	121.72
1	A	2424	GLU	CA-C-N	6.82	129.30	120.44
1	A	2424	GLU	C-N-CA	6.82	129.30	120.44
1	D	2424	GLU	CA-C-N	6.81	129.29	120.44
1	D	2424	GLU	C-N-CA	6.81	129.29	120.44
1	B	2423	ARG	CA-C-N	-6.80	111.87	121.72
1	B	2423	ARG	C-N-CA	-6.80	111.87	121.72
1	A	2423	ARG	CA-C-N	-6.79	111.87	121.72
1	A	2423	ARG	C-N-CA	-6.79	111.87	121.72
1	B	2064	ASP	N-CA-C	6.79	118.68	111.28
1	C	2423	ARG	CA-C-N	-6.78	111.89	121.72
1	C	2423	ARG	C-N-CA	-6.78	111.89	121.72
1	B	2424	GLU	CA-C-N	6.78	129.25	120.44
1	B	2424	GLU	C-N-CA	6.78	129.25	120.44
1	A	2064	ASP	N-CA-C	6.78	118.67	111.28
1	C	2424	GLU	CA-C-N	6.77	129.24	120.44
1	C	2424	GLU	C-N-CA	6.77	129.24	120.44
1	A	574	ILE	N-CA-C	-6.77	103.88	110.72
1	B	574	ILE	N-CA-C	-6.76	103.89	110.72
1	D	2064	ASP	N-CA-C	6.76	118.65	111.28
1	C	2064	ASP	N-CA-C	6.76	118.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	574	ILE	N-CA-C	-6.75	103.91	110.72
1	C	1875	VAL	N-CA-C	-6.75	103.74	110.62
1	D	574	ILE	N-CA-C	-6.72	103.93	110.72
1	C	2574	PHE	CA-C-O	-6.72	113.71	120.90
1	C	1441	ILE	CA-C-N	-6.71	108.50	121.58
1	C	1441	ILE	C-N-CA	-6.71	108.50	121.58
1	A	2241	ASN	CA-C-N	6.70	129.58	120.54
1	A	2241	ASN	C-N-CA	6.70	129.58	120.54
1	C	2241	ASN	CA-C-N	6.70	129.58	120.54
1	C	2241	ASN	C-N-CA	6.70	129.58	120.54
1	A	2574	PHE	CA-C-O	-6.70	113.73	120.90
1	A	1441	ILE	CA-C-N	-6.69	108.53	121.58
1	A	1441	ILE	C-N-CA	-6.69	108.53	121.58
1	B	1441	ILE	CA-C-N	-6.69	108.53	121.58
1	B	1441	ILE	C-N-CA	-6.69	108.53	121.58
1	A	1875	VAL	N-CA-C	-6.69	103.80	110.62
1	D	2574	PHE	CA-C-O	-6.69	113.75	120.90
1	D	1441	ILE	CA-C-N	-6.68	108.55	121.58
1	D	1441	ILE	C-N-CA	-6.68	108.55	121.58
1	D	1875	VAL	N-CA-C	-6.68	103.80	110.62
1	D	2241	ASN	CA-C-N	6.68	129.56	120.54
1	D	2241	ASN	C-N-CA	6.68	129.56	120.54
1	B	2574	PHE	CA-C-O	-6.68	113.75	120.90
1	B	2241	ASN	CA-C-N	6.68	129.56	120.54
1	B	2241	ASN	C-N-CA	6.68	129.56	120.54
1	B	1875	VAL	N-CA-C	-6.68	103.81	110.62
1	D	1665	GLU	N-CA-C	6.67	118.55	111.28
1	B	2738	HIS	C-N-CD	6.64	152.25	125.00
1	A	1665	GLU	N-CA-C	6.64	118.52	111.28
1	A	2738	HIS	C-N-CD	6.64	152.24	125.00
1	C	2225	LEU	CA-CB-CG	6.64	139.54	116.30
1	C	2738	HIS	C-N-CD	6.64	152.23	125.00
1	B	1665	GLU	N-CA-C	6.64	118.51	111.28
1	D	2738	HIS	C-N-CD	6.64	152.21	125.00
1	D	2225	LEU	CA-CB-CG	6.63	139.52	116.30
1	A	2225	LEU	CA-CB-CG	6.63	139.50	116.30
1	B	2225	LEU	CA-CB-CG	6.63	139.50	116.30
1	C	1665	GLU	N-CA-C	6.62	118.50	111.28
1	D	2738	HIS	CA-C-N	-6.60	89.61	122.60
1	D	2738	HIS	C-N-CA	-6.60	89.61	122.60
1	A	2738	HIS	CA-C-N	-6.59	89.65	122.60
1	A	2738	HIS	C-N-CA	-6.59	89.65	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2738	HIS	CA-C-N	-6.59	89.65	122.60
1	B	2738	HIS	C-N-CA	-6.59	89.65	122.60
1	C	2738	HIS	CA-C-N	-6.58	89.68	122.60
1	C	2738	HIS	C-N-CA	-6.58	89.68	122.60
1	B	2398	TYR	CA-CB-CG	-6.56	102.10	113.90
1	A	2398	TYR	CA-CB-CG	-6.55	102.12	113.90
1	C	2398	TYR	CA-CB-CG	-6.53	102.15	113.90
1	B	1091	GLN	CA-C-N	6.53	129.03	120.28
1	B	1091	GLN	C-N-CA	6.53	129.03	120.28
1	A	1091	GLN	CA-C-N	6.53	129.03	120.28
1	A	1091	GLN	C-N-CA	6.53	129.03	120.28
1	C	2531	LEU	CA-CB-CG	6.53	139.14	116.30
1	D	2398	TYR	CA-CB-CG	-6.53	102.15	113.90
1	A	2531	LEU	CA-CB-CG	6.51	139.08	116.30
1	C	1516	VAL	N-CA-C	6.51	117.26	110.62
1	B	2531	LEU	CA-CB-CG	6.51	139.08	116.30
1	D	2531	LEU	CA-CB-CG	6.50	139.07	116.30
1	C	1091	GLN	CA-C-N	6.50	128.99	120.28
1	C	1091	GLN	C-N-CA	6.50	128.99	120.28
1	B	440	VAL	CB-CA-C	-6.50	103.66	111.97
1	B	1516	VAL	N-CA-C	6.50	117.25	110.62
1	D	440	VAL	CB-CA-C	-6.49	103.66	111.97
1	D	1516	VAL	N-CA-C	6.49	117.24	110.62
1	A	1516	VAL	N-CA-C	6.49	117.24	110.62
1	A	440	VAL	CB-CA-C	-6.48	103.67	111.97
1	D	2573	PHE	CA-C-N	-6.48	111.80	120.54
1	D	2573	PHE	C-N-CA	-6.48	111.80	120.54
1	B	2573	PHE	CA-C-N	-6.47	111.81	120.54
1	B	2573	PHE	C-N-CA	-6.47	111.81	120.54
1	C	440	VAL	CB-CA-C	-6.47	103.69	111.97
1	D	1091	GLN	CA-C-N	6.47	128.95	120.28
1	D	1091	GLN	C-N-CA	6.47	128.95	120.28
1	A	2573	PHE	CA-C-N	-6.46	111.81	120.54
1	A	2573	PHE	C-N-CA	-6.46	111.81	120.54
1	C	742	ARG	N-CA-C	6.46	120.81	112.41
1	C	2573	PHE	CA-C-N	-6.46	111.81	120.54
1	C	2573	PHE	C-N-CA	-6.46	111.81	120.54
1	D	742	ARG	N-CA-C	6.46	120.81	112.41
1	A	742	ARG	N-CA-C	6.46	120.81	112.41
1	D	2577	VAL	CA-C-N	-6.46	112.29	120.56
1	D	2577	VAL	C-N-CA	-6.46	112.29	120.56
1	C	2577	VAL	CA-C-N	-6.44	112.32	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2577	VAL	C-N-CA	-6.44	112.32	120.56
1	B	742	ARG	N-CA-C	6.44	120.78	112.41
1	B	2577	VAL	CA-C-N	-6.43	112.33	120.56
1	B	2577	VAL	C-N-CA	-6.43	112.33	120.56
1	A	2577	VAL	CA-C-N	-6.43	112.33	120.56
1	A	2577	VAL	C-N-CA	-6.43	112.33	120.56
1	B	1638	PRO	N-CA-C	-6.39	100.38	112.33
1	C	1638	PRO	N-CA-C	-6.38	100.40	112.33
1	B	2295	TYR	CA-C-N	6.38	127.81	119.84
1	B	2295	TYR	C-N-CA	6.38	127.81	119.84
1	D	1638	PRO	N-CA-C	-6.38	100.40	112.33
1	C	877	GLY	N-CA-C	6.37	128.28	113.18
1	D	877	GLY	N-CA-C	6.37	128.28	113.18
1	A	877	GLY	N-CA-C	6.36	128.26	113.18
1	A	1638	PRO	N-CA-C	-6.36	100.43	112.33
1	A	2295	TYR	CA-C-N	6.36	127.79	119.84
1	A	2295	TYR	C-N-CA	6.36	127.79	119.84
1	B	877	GLY	N-CA-C	6.36	128.24	113.18
1	C	2295	TYR	CA-C-N	6.35	127.78	119.84
1	C	2295	TYR	C-N-CA	6.35	127.78	119.84
1	D	2295	TYR	CA-C-N	6.34	127.77	119.84
1	D	2295	TYR	C-N-CA	6.34	127.77	119.84
1	A	2014	THR	N-CA-C	-6.34	104.29	111.14
1	D	1618	LEU	CA-C-N	-6.33	116.76	122.97
1	D	1618	LEU	C-N-CA	-6.33	116.76	122.97
1	A	1618	LEU	CA-C-N	-6.33	116.77	122.97
1	A	1618	LEU	C-N-CA	-6.33	116.77	122.97
1	C	1618	LEU	CA-C-N	-6.33	116.77	122.97
1	C	1618	LEU	C-N-CA	-6.33	116.77	122.97
1	C	2014	THR	N-CA-C	-6.32	104.32	111.14
1	B	1618	LEU	CA-C-N	-6.29	116.80	122.97
1	B	1618	LEU	C-N-CA	-6.29	116.80	122.97
1	B	2014	THR	N-CA-C	-6.29	104.35	111.14
1	D	2014	THR	N-CA-C	-6.28	104.36	111.14
1	A	2679	ARG	CG-CD-NE	6.24	125.73	112.00
1	C	2679	ARG	CG-CD-NE	6.24	125.73	112.00
1	C	2000	VAL	N-CA-C	6.24	119.78	111.17
1	A	1991	GLN	CA-C-N	6.24	132.34	122.36
1	A	1991	GLN	C-N-CA	6.24	132.34	122.36
1	D	2679	ARG	CG-CD-NE	6.24	125.72	112.00
1	C	1991	GLN	CA-C-N	6.23	132.34	122.36
1	C	1991	GLN	C-N-CA	6.23	132.34	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1991	GLN	CA-C-N	6.23	132.33	122.36
1	D	1991	GLN	C-N-CA	6.23	132.33	122.36
1	A	2360	PHE	N-CA-CB	6.23	119.93	110.28
1	B	2679	ARG	CG-CD-NE	6.22	125.69	112.00
1	C	2360	PHE	N-CA-CB	6.22	119.92	110.28
1	D	2360	PHE	N-CA-CB	6.22	119.92	110.28
1	B	1991	GLN	CA-C-N	6.21	132.29	122.36
1	B	1991	GLN	C-N-CA	6.21	132.29	122.36
1	B	2360	PHE	N-CA-CB	6.21	119.91	110.28
1	A	2000	VAL	N-CA-C	6.19	119.72	111.17
1	D	2000	VAL	N-CA-C	6.18	119.69	111.17
1	B	2000	VAL	N-CA-C	6.17	119.68	111.17
1	B	456	ILE	CB-CA-C	-6.16	103.82	112.14
1	A	456	ILE	CB-CA-C	-6.16	103.83	112.14
1	D	456	ILE	CB-CA-C	-6.15	103.83	112.14
1	C	456	ILE	CB-CA-C	-6.15	103.83	112.14
1	D	1056	GLY	N-CA-C	6.15	127.75	113.18
1	B	1056	GLY	N-CA-C	6.15	127.75	113.18
1	C	1056	GLY	N-CA-C	6.14	127.73	113.18
1	A	1056	GLY	N-CA-C	6.14	127.73	113.18
1	C	873	LEU	N-CA-C	6.14	121.10	112.93
1	A	873	LEU	N-CA-C	6.13	121.09	112.93
1	D	2427	LEU	N-CA-C	-6.13	104.67	111.36
1	B	873	LEU	N-CA-C	6.13	121.08	112.93
1	D	873	LEU	N-CA-C	6.13	121.08	112.93
1	B	2060	SER	CA-C-N	6.12	128.98	120.29
1	B	2060	SER	C-N-CA	6.12	128.98	120.29
1	A	2060	SER	CA-C-N	6.12	128.98	120.29
1	A	2060	SER	C-N-CA	6.12	128.98	120.29
1	C	2060	SER	CA-C-N	6.11	128.97	120.29
1	C	2060	SER	C-N-CA	6.11	128.97	120.29
1	B	2427	LEU	N-CA-C	-6.11	104.70	111.36
1	D	609	HIS	N-CA-C	-6.10	104.94	112.38
1	D	2060	SER	CA-C-N	6.09	128.94	120.29
1	D	2060	SER	C-N-CA	6.09	128.94	120.29
1	A	2427	LEU	N-CA-C	-6.09	104.72	111.36
1	C	2427	LEU	N-CA-C	-6.06	104.76	111.36
1	C	2589	ILE	CA-C-N	-6.04	114.54	122.16
1	C	2589	ILE	C-N-CA	-6.04	114.54	122.16
1	B	2589	ILE	CA-C-N	-6.04	114.55	122.16
1	B	2589	ILE	C-N-CA	-6.04	114.55	122.16
1	A	609	HIS	N-CA-C	-6.04	105.01	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2589	ILE	CA-C-N	-6.04	114.55	122.16
1	A	2589	ILE	C-N-CA	-6.04	114.55	122.16
1	D	1652	PHE	N-CA-C	6.04	118.67	107.99
1	D	2589	ILE	CA-C-N	-6.03	114.56	122.16
1	D	2589	ILE	C-N-CA	-6.03	114.56	122.16
1	A	1652	PHE	N-CA-C	6.03	118.66	107.99
1	C	609	HIS	N-CA-C	-6.03	105.03	112.38
1	B	1652	PHE	N-CA-C	6.03	118.66	107.99
1	B	1391	VAL	N-CA-C	-6.03	105.85	111.45
1	B	609	HIS	N-CA-C	-6.01	105.04	112.38
1	C	1652	PHE	N-CA-C	6.01	118.63	107.99
1	C	2104	HIS	N-CA-C	-6.01	98.00	110.80
1	A	2104	HIS	N-CA-C	-6.01	98.01	110.80
1	A	1391	VAL	N-CA-C	-6.00	105.87	111.45
1	B	1172	ASN	N-CA-C	-6.00	105.04	112.72
1	B	2738	HIS	N-CA-C	6.00	123.06	109.81
1	C	1391	VAL	N-CA-C	-6.00	105.88	111.45
1	B	2104	HIS	N-CA-C	-6.00	98.03	110.80
1	D	2104	HIS	N-CA-C	-6.00	98.03	110.80
1	D	1172	ASN	N-CA-C	-5.99	105.05	112.72
1	C	1172	ASN	N-CA-C	-5.99	105.05	112.72
1	C	2738	HIS	N-CA-C	5.98	123.03	109.81
1	A	1172	ASN	N-CA-C	-5.98	105.07	112.72
1	A	2738	HIS	N-CA-C	5.98	123.02	109.81
1	C	2434	VAL	N-CA-C	5.98	121.78	109.34
1	D	1072	TYR	CA-C-N	-5.97	114.23	120.38
1	D	1072	TYR	C-N-CA	-5.97	114.23	120.38
1	D	2434	VAL	N-CA-C	5.97	121.76	109.34
1	B	2434	VAL	N-CA-C	5.97	121.76	109.34
1	D	2738	HIS	N-CA-C	5.97	123.00	109.81
1	B	1072	TYR	CA-C-N	-5.96	114.24	120.38
1	B	1072	TYR	C-N-CA	-5.96	114.24	120.38
1	A	2434	VAL	N-CA-C	5.96	121.74	109.34
1	D	1391	VAL	N-CA-C	-5.95	105.92	111.45
1	B	2431	ILE	CB-CA-C	-5.95	104.11	112.14
1	A	1072	TYR	CA-C-N	-5.93	114.27	120.38
1	A	1072	TYR	C-N-CA	-5.93	114.27	120.38
1	C	2585	ILE	CB-CA-C	-5.93	104.13	112.14
1	B	2585	ILE	CB-CA-C	-5.93	104.13	112.14
1	D	2697	ASN	N-CA-C	5.93	117.75	111.28
1	A	2431	ILE	CB-CA-C	-5.93	104.14	112.14
1	D	2431	ILE	CB-CA-C	-5.93	104.14	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2585	ILE	CB-CA-C	-5.92	104.15	112.14
1	C	2431	ILE	CB-CA-C	-5.92	104.15	112.14
1	C	1072	TYR	CA-C-N	-5.91	114.29	120.38
1	C	1072	TYR	C-N-CA	-5.91	114.29	120.38
1	C	2162	GLN	N-CA-C	-5.91	104.84	111.28
1	D	2162	GLN	N-CA-C	-5.91	104.84	111.28
1	D	2585	ILE	CB-CA-C	-5.91	104.16	112.14
1	A	2162	GLN	N-CA-C	-5.91	104.84	111.28
1	C	2697	ASN	N-CA-C	5.91	117.72	111.28
1	B	2697	ASN	N-CA-C	5.90	117.71	111.28
1	A	2697	ASN	N-CA-C	5.90	117.71	111.28
1	B	2162	GLN	N-CA-C	-5.88	104.86	111.28
1	D	645	ILE	CA-C-N	-5.86	112.51	119.84
1	D	645	ILE	C-N-CA	-5.86	112.51	119.84
1	D	640	SER	N-CA-C	-5.85	103.20	111.56
1	D	1619	VAL	O-C-N	5.85	126.29	121.85
1	B	645	ILE	CA-C-N	-5.84	112.54	119.84
1	B	645	ILE	C-N-CA	-5.84	112.54	119.84
1	A	640	SER	N-CA-C	-5.84	103.21	111.56
1	B	2586	PHE	CA-CB-CG	5.83	119.64	113.80
1	C	640	SER	N-CA-C	-5.83	103.22	111.56
1	D	1654	CYS	N-CA-C	5.83	117.63	111.28
1	A	2649	LYS	CA-C-N	-5.82	111.49	121.97
1	A	2649	LYS	C-N-CA	-5.82	111.49	121.97
1	A	2586	PHE	CA-CB-CG	5.82	119.62	113.80
1	B	2649	LYS	CA-C-N	-5.82	111.49	121.97
1	B	2649	LYS	C-N-CA	-5.82	111.49	121.97
1	B	640	SER	N-CA-C	-5.82	103.24	111.56
1	D	842	GLU	N-CA-C	-5.82	105.02	111.36
1	C	2284	ALA	CA-C-N	-5.82	113.11	120.56
1	C	2284	ALA	C-N-CA	-5.82	113.11	120.56
1	C	2586	PHE	CA-CB-CG	5.81	119.61	113.80
1	C	2649	LYS	CA-C-N	-5.81	111.51	121.97
1	C	2649	LYS	C-N-CA	-5.81	111.51	121.97
1	A	645	ILE	CA-C-N	-5.81	112.58	119.84
1	A	645	ILE	C-N-CA	-5.81	112.58	119.84
1	C	645	ILE	CA-C-N	-5.81	112.58	119.84
1	C	645	ILE	C-N-CA	-5.81	112.58	119.84
1	D	2649	LYS	CA-C-N	-5.81	111.52	121.97
1	D	2649	LYS	C-N-CA	-5.81	111.52	121.97
1	A	842	GLU	N-CA-C	-5.80	105.03	111.36
1	B	842	GLU	N-CA-C	-5.80	105.03	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2284	ALA	CA-C-N	-5.80	113.14	120.56
1	D	2284	ALA	C-N-CA	-5.80	113.14	120.56
1	A	2284	ALA	CA-C-N	-5.80	113.14	120.56
1	A	2284	ALA	C-N-CA	-5.80	113.14	120.56
1	C	842	GLU	N-CA-C	-5.79	105.05	111.36
1	B	1654	CYS	N-CA-C	5.79	117.59	111.28
1	C	1619	VAL	O-C-N	5.78	126.25	121.85
1	A	1654	CYS	N-CA-C	5.78	117.58	111.28
1	B	2284	ALA	CA-C-N	-5.78	113.16	120.56
1	B	2284	ALA	C-N-CA	-5.78	113.16	120.56
1	D	2586	PHE	CA-CB-CG	5.78	119.58	113.80
1	D	2191	LYS	CA-C-N	-5.78	110.50	121.54
1	D	2191	LYS	C-N-CA	-5.78	110.50	121.54
1	C	2191	LYS	CA-C-N	-5.77	110.51	121.54
1	C	2191	LYS	C-N-CA	-5.77	110.51	121.54
1	B	2191	LYS	CA-C-N	-5.77	110.52	121.54
1	B	2191	LYS	C-N-CA	-5.77	110.52	121.54
1	A	2191	LYS	CA-C-N	-5.77	110.52	121.54
1	A	2191	LYS	C-N-CA	-5.77	110.52	121.54
1	B	2626	VAL	CA-C-N	-5.76	114.86	122.99
1	B	2626	VAL	C-N-CA	-5.76	114.86	122.99
1	A	1619	VAL	O-C-N	5.76	126.23	121.85
1	C	1654	CYS	N-CA-C	5.76	117.55	111.28
1	A	2626	VAL	CA-C-N	-5.75	114.88	122.99
1	A	2626	VAL	C-N-CA	-5.75	114.88	122.99
1	C	2626	VAL	CA-C-N	-5.75	114.88	122.99
1	C	2626	VAL	C-N-CA	-5.75	114.88	122.99
1	C	2628	PHE	CA-C-N	5.75	128.25	120.38
1	C	2628	PHE	C-N-CA	5.75	128.25	120.38
1	B	2080	LYS	N-CA-C	-5.73	106.24	113.18
1	B	2421	VAL	CB-CA-C	5.73	121.55	112.26
1	B	2628	PHE	CA-C-N	5.73	128.23	120.38
1	B	2628	PHE	C-N-CA	5.73	128.23	120.38
1	D	2626	VAL	CA-C-N	-5.73	114.91	122.99
1	D	2626	VAL	C-N-CA	-5.73	114.91	122.99
1	D	2628	PHE	CA-C-N	5.73	128.23	120.38
1	D	2628	PHE	C-N-CA	5.73	128.23	120.38
1	B	2412	PHE	CA-C-N	-5.72	110.61	121.54
1	B	2412	PHE	C-N-CA	-5.72	110.61	121.54
1	A	2421	VAL	CB-CA-C	5.72	121.52	112.26
1	C	2582	LEU	CA-CB-CG	-5.72	96.29	116.30
1	B	2582	LEU	CA-CB-CG	-5.72	96.29	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2582	LEU	CA-CB-CG	-5.71	96.31	116.30
1	A	2628	PHE	CA-C-N	5.71	128.20	120.38
1	A	2628	PHE	C-N-CA	5.71	128.20	120.38
1	D	2421	VAL	CB-CA-C	5.71	121.51	112.26
1	D	2582	LEU	CA-CB-CG	-5.71	96.32	116.30
1	A	2080	LYS	N-CA-C	-5.71	106.28	113.18
1	A	2412	PHE	CA-C-N	-5.71	110.64	121.54
1	A	2412	PHE	C-N-CA	-5.71	110.64	121.54
1	C	2412	PHE	CA-C-N	-5.71	110.64	121.54
1	C	2412	PHE	C-N-CA	-5.71	110.64	121.54
1	B	2424	GLU	CB-CA-C	5.70	119.64	110.29
1	D	2080	LYS	N-CA-C	-5.70	106.28	113.18
1	B	1619	VAL	O-C-N	5.70	126.18	121.85
1	D	2412	PHE	CA-C-N	-5.70	110.66	121.54
1	D	2412	PHE	C-N-CA	-5.70	110.66	121.54
1	C	2424	GLU	CB-CA-C	5.70	119.63	110.29
1	C	2421	VAL	CB-CA-C	5.69	121.48	112.26
1	D	2424	GLU	CB-CA-C	5.69	119.62	110.29
1	A	2424	GLU	CB-CA-C	5.69	119.62	110.29
1	C	514	ASN	CA-C-N	-5.68	111.75	121.97
1	C	514	ASN	C-N-CA	-5.68	111.75	121.97
1	D	1343	VAL	N-CA-C	-5.68	104.98	110.72
1	C	827	ASP	N-CA-C	5.67	117.14	111.07
1	A	514	ASN	CA-C-N	-5.67	111.77	121.97
1	A	514	ASN	C-N-CA	-5.67	111.77	121.97
1	C	2080	LYS	N-CA-C	-5.67	106.32	113.18
1	D	827	ASP	N-CA-C	5.67	117.13	111.07
1	A	827	ASP	N-CA-C	5.66	117.13	111.07
1	B	514	ASN	CA-C-N	-5.66	111.78	121.97
1	B	514	ASN	C-N-CA	-5.66	111.78	121.97
1	B	1343	VAL	N-CA-C	-5.66	105.00	110.72
1	B	827	ASP	N-CA-C	5.66	117.12	111.07
1	D	514	ASN	CA-C-N	-5.66	111.79	121.97
1	D	514	ASN	C-N-CA	-5.66	111.79	121.97
1	A	634	LEU	CA-C-N	5.64	128.40	120.28
1	A	634	LEU	C-N-CA	5.64	128.40	120.28
1	C	1343	VAL	N-CA-C	-5.64	105.03	110.72
1	C	634	LEU	CA-C-N	5.63	128.39	120.28
1	C	634	LEU	C-N-CA	5.63	128.39	120.28
1	B	825	SER	N-CA-C	5.63	122.79	110.80
1	A	825	SER	N-CA-C	5.63	122.79	110.80
1	C	825	SER	N-CA-C	5.63	122.79	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	825	SER	N-CA-C	5.62	122.77	110.80
1	A	2019	GLY	N-CA-C	-5.62	103.17	111.03
1	A	1343	VAL	N-CA-C	-5.61	105.05	110.72
1	C	2019	GLY	N-CA-C	-5.61	103.17	111.03
1	D	263	PHE	CA-C-N	-5.61	112.06	121.94
1	D	263	PHE	C-N-CA	-5.61	112.06	121.94
1	D	634	LEU	CA-C-N	5.61	128.36	120.28
1	D	634	LEU	C-N-CA	5.61	128.36	120.28
1	A	2049	HIS	N-CA-C	5.60	117.07	111.07
1	B	2019	GLY	N-CA-C	-5.60	103.19	111.03
1	C	263	PHE	CA-C-N	-5.60	112.09	121.94
1	C	263	PHE	C-N-CA	-5.60	112.09	121.94
1	D	2019	GLY	N-CA-C	-5.60	103.19	111.03
1	B	634	LEU	CA-C-N	5.59	128.34	120.28
1	B	634	LEU	C-N-CA	5.59	128.34	120.28
1	B	2049	HIS	N-CA-C	5.59	117.05	111.07
1	D	2049	HIS	N-CA-C	5.58	117.03	111.07
1	C	2049	HIS	N-CA-C	5.57	117.03	111.07
1	A	263	PHE	CA-C-N	-5.56	112.15	121.94
1	A	263	PHE	C-N-CA	-5.56	112.15	121.94
1	B	2646	VAL	N-CA-CB	5.56	117.06	110.55
1	B	263	PHE	CA-C-N	-5.56	112.16	121.94
1	B	263	PHE	C-N-CA	-5.56	112.16	121.94
1	C	2646	VAL	N-CA-CB	5.54	117.03	110.55
1	C	1852	LYS	N-CA-C	5.53	122.58	110.80
1	A	2646	VAL	N-CA-CB	5.53	117.02	110.55
1	C	2559	GLU	CA-C-N	5.53	126.64	120.06
1	C	2559	GLU	C-N-CA	5.53	126.64	120.06
1	D	2559	GLU	CA-C-N	5.52	126.63	120.06
1	D	2559	GLU	C-N-CA	5.52	126.63	120.06
1	A	1852	LYS	N-CA-C	5.52	122.56	110.80
1	B	655	ALA	CA-C-N	-5.51	112.59	120.42
1	B	655	ALA	C-N-CA	-5.51	112.59	120.42
1	D	655	ALA	CA-C-N	-5.51	112.59	120.42
1	D	655	ALA	C-N-CA	-5.51	112.59	120.42
1	A	2559	GLU	CA-C-N	5.51	126.62	120.06
1	A	2559	GLU	C-N-CA	5.51	126.62	120.06
1	D	2351	GLN	CA-C-N	5.51	125.17	119.05
1	D	2351	GLN	C-N-CA	5.51	125.17	119.05
1	B	1852	LYS	N-CA-C	5.51	122.53	110.80
1	D	2646	VAL	N-CA-CB	5.50	116.99	110.55
1	A	655	ALA	CA-C-N	-5.50	112.61	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	655	ALA	C-N-CA	-5.50	112.61	120.42
1	D	1852	LYS	N-CA-C	5.50	122.50	110.80
1	C	2351	GLN	CA-C-N	5.49	125.15	119.05
1	C	2351	GLN	C-N-CA	5.49	125.15	119.05
1	B	2559	GLU	CA-C-N	5.49	126.59	120.06
1	B	2559	GLU	C-N-CA	5.49	126.59	120.06
1	C	2015	THR	N-CA-C	-5.49	103.67	111.24
1	D	2577	VAL	CB-CA-C	-5.49	104.65	112.22
1	A	2577	VAL	CB-CA-C	-5.48	104.65	112.22
1	A	2351	GLN	CA-C-N	5.48	125.14	119.05
1	A	2351	GLN	C-N-CA	5.48	125.14	119.05
1	B	2351	GLN	CA-C-N	5.48	125.13	119.05
1	B	2351	GLN	C-N-CA	5.48	125.13	119.05
1	C	655	ALA	CA-C-N	-5.47	112.65	120.42
1	C	655	ALA	C-N-CA	-5.47	112.65	120.42
1	C	2577	VAL	CB-CA-C	-5.47	104.67	112.22
1	C	2426	THR	N-CA-C	-5.47	105.22	111.07
1	B	2577	VAL	CB-CA-C	-5.47	104.67	112.22
1	B	2574	PHE	CA-C-N	-5.44	113.04	120.44
1	B	2574	PHE	C-N-CA	-5.44	113.04	120.44
1	D	452	VAL	N-CA-C	-5.44	105.42	110.53
1	B	2092	ALA	N-CA-C	-5.44	105.36	111.28
1	A	2426	THR	N-CA-C	-5.43	105.26	111.07
1	C	2574	PHE	CA-C-N	-5.43	113.05	120.44
1	C	2574	PHE	C-N-CA	-5.43	113.05	120.44
1	A	452	VAL	N-CA-C	-5.43	105.42	110.53
1	B	2426	THR	N-CA-C	-5.43	105.26	111.07
1	D	2015	THR	N-CA-C	-5.43	103.75	111.24
1	A	2574	PHE	CA-C-N	-5.43	113.06	120.44
1	A	2574	PHE	C-N-CA	-5.43	113.06	120.44
1	A	2015	THR	N-CA-C	-5.43	103.75	111.24
1	B	2015	THR	N-CA-C	-5.43	103.75	111.24
1	C	2168	LYS	N-CA-C	5.42	117.27	111.36
1	A	2092	ALA	N-CA-C	-5.42	105.37	111.28
1	C	452	VAL	N-CA-C	-5.41	105.44	110.53
1	D	2092	ALA	N-CA-C	-5.41	105.38	111.28
1	C	2575	PHE	N-CA-CB	5.41	117.91	110.07
1	D	204	PRO	CA-C-N	5.41	131.43	121.70
1	D	204	PRO	C-N-CA	5.41	131.43	121.70
1	D	2574	PHE	CA-C-N	-5.41	113.09	120.44
1	D	2574	PHE	C-N-CA	-5.41	113.09	120.44
1	B	204	PRO	CA-C-N	5.40	131.42	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	204	PRO	C-N-CA	5.40	131.42	121.70
1	D	2575	PHE	N-CA-CB	5.40	117.90	110.07
1	D	2426	THR	N-CA-C	-5.40	105.29	111.07
1	D	2168	LYS	N-CA-C	5.40	117.24	111.36
1	B	452	VAL	N-CA-C	-5.39	105.46	110.53
1	D	1432	VAL	CA-C-N	-5.39	114.86	122.63
1	D	1432	VAL	C-N-CA	-5.39	114.86	122.63
1	A	204	PRO	CA-C-N	5.39	131.41	121.70
1	A	204	PRO	C-N-CA	5.39	131.41	121.70
1	C	773	LEU	N-CA-C	5.38	121.71	109.81
1	C	1432	VAL	CA-C-N	-5.38	114.88	122.63
1	C	1432	VAL	C-N-CA	-5.38	114.88	122.63
1	A	1432	VAL	CA-C-N	-5.38	114.88	122.63
1	A	1432	VAL	C-N-CA	-5.38	114.88	122.63
1	C	2092	ALA	N-CA-C	-5.38	105.41	111.28
1	B	2575	PHE	N-CA-CB	5.38	117.87	110.07
1	C	2624	LYS	CA-C-N	-5.38	113.50	122.21
1	C	2624	LYS	C-N-CA	-5.38	113.50	122.21
1	B	998	LYS	O-C-N	-5.38	115.88	122.55
1	A	2168	LYS	N-CA-C	5.38	117.22	111.36
1	C	2572	LEU	CA-CB-CG	-5.38	97.49	116.30
1	A	2575	PHE	N-CA-CB	5.37	117.86	110.07
1	C	204	PRO	CA-C-N	5.37	131.37	121.70
1	C	204	PRO	C-N-CA	5.37	131.37	121.70
1	A	2572	LEU	CA-CB-CG	-5.37	97.50	116.30
1	B	2168	LYS	N-CA-C	5.37	117.22	111.36
1	D	2572	LEU	CA-CB-CG	-5.37	97.51	116.30
1	A	773	LEU	N-CA-C	5.37	121.67	109.81
1	B	1432	VAL	CA-C-N	-5.37	114.90	122.63
1	B	1432	VAL	C-N-CA	-5.37	114.90	122.63
1	B	2572	LEU	CA-CB-CG	-5.36	97.53	116.30
1	B	773	LEU	N-CA-C	5.36	121.66	109.81
1	C	998	LYS	O-C-N	-5.36	115.91	122.55
1	D	773	LEU	N-CA-C	5.36	121.65	109.81
1	D	998	LYS	O-C-N	-5.36	115.91	122.55
1	A	998	LYS	O-C-N	-5.36	115.91	122.55
1	A	2624	LYS	CA-C-N	-5.35	113.55	122.21
1	A	2624	LYS	C-N-CA	-5.35	113.55	122.21
1	B	2242	ASP	N-CA-CB	-5.34	101.98	109.94
1	D	2624	LYS	CA-C-N	-5.34	113.55	122.21
1	D	2624	LYS	C-N-CA	-5.34	113.55	122.21
1	C	2419	ASP	N-CA-C	5.34	118.02	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2419	ASP	N-CA-C	5.33	118.00	111.82
1	B	2624	LYS	CA-C-N	-5.33	113.58	122.21
1	B	2624	LYS	C-N-CA	-5.33	113.58	122.21
1	A	2242	ASP	N-CA-CB	-5.32	102.02	109.94
1	A	2419	ASP	N-CA-C	5.32	117.99	111.82
1	C	2285	VAL	CB-CA-C	-5.32	105.06	112.02
1	D	1087	PHE	N-CA-C	-5.31	106.49	112.87
1	C	2242	ASP	N-CA-CB	-5.31	102.03	109.94
1	A	578	PHE	N-CA-C	5.31	118.55	111.75
1	C	2379	PHE	N-CA-C	-5.31	103.92	111.24
1	A	2584	LEU	N-CA-C	5.31	117.06	111.28
1	A	2285	VAL	CB-CA-C	-5.30	105.07	112.02
1	B	2285	VAL	CB-CA-C	-5.30	105.07	112.02
1	C	2584	LEU	N-CA-C	5.30	117.06	111.28
1	D	2379	PHE	N-CA-C	-5.30	103.92	111.24
1	C	578	PHE	N-CA-C	5.30	118.53	111.75
1	B	2584	LEU	N-CA-C	5.30	117.06	111.28
1	A	2379	PHE	N-CA-C	-5.30	103.93	111.24
1	D	2242	ASP	N-CA-CB	-5.30	102.05	109.94
1	D	2285	VAL	CB-CA-C	-5.30	105.08	112.02
1	D	2419	ASP	N-CA-C	5.29	117.96	111.82
1	D	2584	LEU	N-CA-C	5.29	117.04	111.28
1	B	578	PHE	N-CA-C	5.29	118.52	111.75
1	B	2379	PHE	N-CA-C	-5.28	103.95	111.24
1	D	578	PHE	N-CA-C	5.28	118.51	111.75
1	A	1087	PHE	N-CA-C	-5.28	106.54	112.87
1	C	1087	PHE	N-CA-C	-5.28	106.54	112.87
1	D	86	ALA	N-CA-C	5.28	116.33	108.31
1	A	571	GLN	N-CA-C	5.27	119.30	111.87
1	D	571	GLN	N-CA-C	5.27	119.30	111.87
1	C	571	GLN	N-CA-C	5.27	119.30	111.87
1	A	86	ALA	N-CA-C	5.27	116.32	108.31
1	B	86	ALA	N-CA-C	5.25	116.29	108.31
1	B	1087	PHE	N-CA-C	-5.25	106.57	112.87
1	C	86	ALA	N-CA-C	5.25	116.29	108.31
1	B	571	GLN	N-CA-C	5.24	119.26	111.87
1	C	777	LEU	N-CA-C	-5.22	105.58	111.28
1	D	2255	ASN	N-CA-C	5.22	116.65	111.07
1	C	2255	ASN	N-CA-C	5.21	116.64	111.07
1	B	2240	ILE	N-CA-CB	-5.21	103.96	110.47
1	A	777	LEU	N-CA-C	-5.21	105.61	111.28
1	B	777	LEU	N-CA-C	-5.21	105.61	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2255	ASN	N-CA-C	5.21	116.64	111.07
1	B	2665	GLU	CB-CG-CD	5.20	121.45	112.60
1	A	2665	GLU	CB-CG-CD	5.19	121.43	112.60
1	A	2240	ILE	N-CA-CB	-5.19	103.98	110.47
1	D	2240	ILE	N-CA-CB	-5.19	103.98	110.47
1	B	2255	ASN	N-CA-C	5.19	116.62	111.07
1	D	777	LEU	N-CA-C	-5.18	105.63	111.28
1	D	2665	GLU	CB-CG-CD	5.18	121.41	112.60
1	D	2182	GLY	N-CA-C	5.18	125.46	113.18
1	C	2240	ILE	N-CA-CB	-5.18	104.00	110.47
1	C	2665	GLU	CB-CG-CD	5.18	121.40	112.60
1	B	2182	GLY	N-CA-C	5.17	125.43	113.18
1	A	2182	GLY	N-CA-C	5.16	125.41	113.18
1	B	2578	ILE	N-CA-C	5.16	115.38	110.53
1	C	2148	SER	N-CA-C	-5.16	102.97	110.08
1	D	2578	ILE	N-CA-C	5.16	115.38	110.53
1	C	2182	GLY	N-CA-C	5.15	125.39	113.18
1	B	1308	TYR	CA-C-N	5.15	127.73	120.42
1	B	1308	TYR	C-N-CA	5.15	127.73	120.42
1	D	1308	TYR	CA-C-N	5.15	127.73	120.42
1	D	1308	TYR	C-N-CA	5.15	127.73	120.42
1	D	2148	SER	N-CA-C	-5.15	102.98	110.08
1	A	2578	ILE	N-CA-C	5.14	115.36	110.53
1	D	1390	ASN	N-CA-C	5.14	121.75	110.80
1	D	2286	LEU	N-CA-C	-5.14	99.85	110.80
1	C	2578	ILE	N-CA-C	5.14	115.36	110.53
1	D	2200	ARG	N-CA-C	5.14	118.39	110.42
1	C	1983	ASP	CA-C-O	-5.14	115.43	120.82
1	B	2148	SER	N-CA-C	-5.13	102.99	110.08
1	A	2148	SER	N-CA-C	-5.13	103.00	110.08
1	A	1308	TYR	CA-C-N	5.13	127.71	120.42
1	A	1308	TYR	C-N-CA	5.13	127.71	120.42
1	C	2200	ARG	N-CA-C	5.13	118.37	110.42
1	A	1390	ASN	N-CA-C	5.13	121.72	110.80
1	A	2286	LEU	N-CA-C	-5.13	99.88	110.80
1	C	2286	LEU	N-CA-C	-5.13	99.88	110.80
1	A	1983	ASP	CA-C-O	-5.12	115.44	120.82
1	A	2200	ARG	N-CA-C	5.12	118.36	110.42
1	B	2200	ARG	N-CA-C	5.12	118.36	110.42
1	A	1096	ALA	N-CA-C	-5.12	105.78	111.36
1	B	1096	ALA	N-CA-C	-5.12	105.78	111.36
1	B	1983	ASP	CA-C-O	-5.12	115.45	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1983	ASP	CA-C-O	-5.12	115.44	120.82
1	B	1390	ASN	N-CA-C	5.12	121.70	110.80
1	B	2286	LEU	N-CA-C	-5.11	99.91	110.80
1	C	1390	ASN	N-CA-C	5.11	121.68	110.80
1	C	106	GLU	CB-CA-C	-5.11	100.26	110.42
1	D	106	GLU	CB-CA-C	-5.10	100.26	110.42
1	A	2181	ASP	CA-C-N	5.10	131.41	121.41
1	A	2181	ASP	C-N-CA	5.10	131.41	121.41
1	D	2181	ASP	CA-C-N	5.10	131.41	121.41
1	D	2181	ASP	C-N-CA	5.10	131.41	121.41
1	A	106	GLU	CB-CA-C	-5.10	100.27	110.42
1	C	1308	TYR	CA-C-N	5.09	127.66	120.42
1	C	1308	TYR	C-N-CA	5.09	127.66	120.42
1	C	2181	ASP	CA-C-N	5.09	131.39	121.41
1	C	2181	ASP	C-N-CA	5.09	131.39	121.41
1	B	106	GLU	CB-CA-C	-5.09	100.29	110.42
1	B	2181	ASP	CA-C-N	5.09	131.38	121.41
1	B	2181	ASP	C-N-CA	5.09	131.38	121.41
1	C	1277	PHE	N-CA-C	5.08	116.97	108.99
1	D	1096	ALA	N-CA-C	-5.08	105.82	111.36
1	C	1096	ALA	N-CA-C	-5.06	105.84	111.36
1	D	264	LEU	CB-CA-C	5.06	119.69	109.68
1	A	264	LEU	CB-CA-C	5.05	119.69	109.68
1	A	1277	PHE	N-CA-C	5.05	116.92	108.99
1	B	2577	VAL	CA-C-O	-5.05	115.50	120.85
1	B	1277	PHE	N-CA-C	5.04	116.91	108.99
1	D	2577	VAL	CA-C-O	-5.04	115.51	120.85
1	A	880	ASN	CA-C-N	5.03	127.02	120.28
1	A	880	ASN	C-N-CA	5.03	127.02	120.28
1	B	264	LEU	CB-CA-C	5.03	119.64	109.68
1	D	1277	PHE	N-CA-C	5.03	116.89	108.99
1	C	264	LEU	CB-CA-C	5.03	119.64	109.68
1	A	2577	VAL	CA-C-O	-5.03	115.52	120.85
1	A	79	GLY	N-CA-C	-5.02	106.34	112.77
1	B	79	GLY	N-CA-C	-5.02	106.35	112.77
1	B	880	ASN	CA-C-N	5.02	127.00	120.28
1	B	880	ASN	C-N-CA	5.02	127.00	120.28
1	D	79	GLY	N-CA-C	-5.01	106.35	112.77
1	C	896	ASP	N-CA-C	-5.01	100.13	110.80
1	C	2398	TYR	N-CA-CB	5.01	117.48	110.12
1	B	2401	ILE	CB-CA-C	-5.01	105.38	112.14
1	C	79	GLY	N-CA-C	-5.01	106.36	112.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2398	TYR	N-CA-CB	5.01	117.48	110.12
1	D	896	ASP	N-CA-C	-5.00	100.14	110.80
1	A	2401	ILE	CB-CA-C	-5.00	105.38	112.14
1	C	1873	ALA	N-CA-C	-5.00	105.83	111.28
1	C	2401	ILE	CB-CA-C	-5.00	105.39	112.14
1	D	880	ASN	CA-C-N	5.00	126.98	120.28
1	D	880	ASN	C-N-CA	5.00	126.98	120.28
1	C	2577	VAL	CA-C-O	-5.00	115.55	120.85

There are no chirality outliers.

All (68) planarity outliers are listed below:

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

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

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	12499	0	8930	1773	0
1	B	12499	0	8931	1771	0
1	C	12499	0	8931	1758	0
1	D	12499	0	8930	1755	0
2	A	42	5	0	26	0
2	B	42	5	0	25	0
2	C	42	5	0	25	0
2	D	42	5	0	26	0
All	All	50164	20	35722	6764	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 79.

All (6764) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2243:PHE:CE1	1:B:2642:LEU:HD11	1.23	1.63
1:D:2243:PHE:CE1	1:D:2642:LEU:HD11	1.23	1.63
1:A:2700:GLU:CG	1:B:2702:LEU:HD12	1.17	1.63
1:A:2696:ARG:HH12	1:D:2696:ARG:CZ	1.09	1.62
1:A:275:ALA:HB2	2:A:2801:JYP:C5	1.15	1.62
1:C:646:PRO:CA	1:C:649:GLN:H	1.13	1.61
1:D:275:ALA:HB2	2:D:2801:JYP:C5	1.15	1.61
1:B:646:PRO:CA	1:B:649:GLN:H	1.13	1.61
1:B:2213:PRO:CD	1:B:2647:LEU:HB2	1.20	1.61
1:A:2213:PRO:CD	1:A:2647:LEU:HB2	1.20	1.61
1:A:2243:PHE:CE1	1:A:2642:LEU:HD11	1.23	1.61
1:A:2700:GLU:CG	1:B:2702:LEU:CD1	1.79	1.60
1:D:2213:PRO:CD	1:D:2647:LEU:HB2	1.20	1.59
1:D:2433:SER:CB	1:D:2593:PHE:CZ	1.86	1.59
1:C:275:ALA:HB2	2:C:2801:JYP:C5	1.15	1.58
1:C:2213:PRO:CD	1:C:2647:LEU:HB2	1.20	1.58
1:C:2243:PHE:CE1	1:C:2642:LEU:HD11	1.23	1.58
1:B:275:ALA:HB2	2:B:2801:JYP:C5	1.15	1.58
1:B:2433:SER:CB	1:B:2593:PHE:CZ	1.86	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2433:SER:CB	1:C:2593:PHE:CZ	1.86	1.57
1:B:2243:PHE:HE1	1:B:2642:LEU:CD1	1.08	1.57
1:D:646:PRO:CA	1:D:649:GLN:H	1.13	1.57
1:A:2433:SER:CB	1:A:2593:PHE:CZ	1.86	1.56
1:A:646:PRO:CA	1:A:649:GLN:H	1.13	1.56
1:A:2243:PHE:HE1	1:A:2642:LEU:CD1	1.08	1.56
1:C:2243:PHE:HE1	1:C:2642:LEU:CD1	1.08	1.56
1:D:2243:PHE:HE1	1:D:2642:LEU:CD1	1.08	1.55
1:D:2637:ASN:ND2	1:D:2640:HIS:CD2	1.74	1.55
1:C:89:LEU:CA	1:C:92:LEU:CD2	1.82	1.55
1:B:89:LEU:CA	1:B:92:LEU:CD2	1.82	1.55
1:D:89:LEU:CA	1:D:92:LEU:CD2	1.82	1.55
1:A:89:LEU:CA	1:A:92:LEU:CD2	1.82	1.54
1:C:2637:ASN:ND2	1:C:2640:HIS:CD2	1.75	1.53
1:B:547:ALA:HB1	1:B:548:PRO:CD	1.34	1.52
1:D:547:ALA:HB1	1:D:548:PRO:CD	1.34	1.52
1:B:2637:ASN:ND2	1:B:2640:HIS:CD2	1.74	1.52
1:C:2696:ARG:HH12	1:B:2696:ARG:CZ	1.23	1.51
1:A:2637:ASN:ND2	1:A:2640:HIS:CD2	1.75	1.50
1:C:69:GLN:NE2	1:C:100:LYS:HD2	1.27	1.50
1:A:2433:SER:CB	1:A:2593:PHE:CE2	1.95	1.49
1:C:2345:ILE:CD1	1:C:2356:LEU:HD21	1.41	1.49
1:B:2433:SER:CB	1:B:2593:PHE:CE2	1.95	1.49
1:D:2433:SER:OG	1:D:2593:PHE:CE2	1.66	1.49
1:D:2345:ILE:CD1	1:D:2356:LEU:HD21	1.41	1.48
1:C:2433:SER:OG	1:C:2593:PHE:CE2	1.66	1.48
1:C:2710:THR:CB	1:B:2707:LYS:NZ	1.72	1.48
1:B:646:PRO:CA	1:B:649:GLN:N	1.77	1.48
1:D:69:GLN:NE2	1:D:100:LYS:HD2	1.27	1.48
1:C:547:ALA:HB1	1:C:548:PRO:CD	1.34	1.47
1:A:2401:ILE:CG2	1:A:2416:LEU:HD13	1.45	1.47
1:A:2433:SER:OG	1:A:2593:PHE:CE2	1.66	1.47
1:D:2433:SER:CB	1:D:2593:PHE:CE2	1.95	1.47
1:B:2401:ILE:CG2	1:B:2416:LEU:HD13	1.45	1.47
1:A:2345:ILE:CD1	1:A:2356:LEU:HD21	1.41	1.47
1:C:2401:ILE:CG1	1:C:2416:LEU:HD22	1.45	1.47
1:A:2368:PHE:HE2	1:A:2395:HIS:CG	1.33	1.46
1:B:2345:ILE:CD1	1:B:2356:LEU:HD21	1.41	1.46
1:A:89:LEU:C	1:A:92:LEU:CD2	1.88	1.46
1:C:646:PRO:CA	1:C:649:GLN:N	1.77	1.46
1:C:2433:SER:CB	1:C:2593:PHE:CE2	1.95	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:69:GLN:NE2	1:B:100:LYS:HD2	1.27	1.46
1:D:2401:ILE:CG1	1:D:2416:LEU:HD22	1.45	1.46
1:D:89:LEU:C	1:D:92:LEU:CD2	1.88	1.46
1:A:69:GLN:NE2	1:A:100:LYS:HD2	1.27	1.45
1:C:89:LEU:C	1:C:92:LEU:CD2	1.88	1.45
1:B:2654:THR:O	1:B:2657:THR:CG2	1.63	1.45
1:A:547:ALA:HB1	1:A:548:PRO:CD	1.34	1.45
1:D:2343:ARG:O	1:D:2346:PHE:CD2	1.70	1.45
1:C:2626:VAL:CG1	1:C:2627:THR:H	1.13	1.44
1:A:2654:THR:O	1:A:2657:THR:CG2	1.63	1.44
1:D:2368:PHE:HE2	1:D:2395:HIS:CG	1.33	1.44
1:B:2433:SER:OG	1:B:2593:PHE:CE2	1.66	1.44
1:D:2401:ILE:CG2	1:D:2416:LEU:HD13	1.45	1.44
1:A:547:ALA:CB	1:A:548:PRO:HD2	1.42	1.44
1:A:2362:VAL:HA	1:A:2402:CYS:SG	1.58	1.44
1:C:2343:ARG:O	1:C:2346:PHE:CD2	1.70	1.44
1:B:2401:ILE:CG1	1:B:2416:LEU:HD22	1.45	1.44
1:A:2401:ILE:CG1	1:A:2416:LEU:HD22	1.45	1.44
1:C:2654:THR:O	1:C:2657:THR:CG2	1.63	1.44
1:B:2343:ARG:O	1:B:2346:PHE:CD2	1.70	1.44
1:B:2362:VAL:HA	1:B:2402:CYS:SG	1.58	1.44
1:B:2368:PHE:HE2	1:B:2395:HIS:CG	1.33	1.43
1:B:2433:SER:OG	1:B:2593:PHE:CZ	1.69	1.43
1:D:2654:THR:O	1:D:2657:THR:CG2	1.63	1.43
1:B:2403:ALA:O	1:B:2408:VAL:CG2	1.66	1.43
1:A:2696:ARG:NH1	1:D:2696:ARG:CZ	1.79	1.43
1:A:2345:ILE:O	1:A:2348:VAL:CG1	1.66	1.43
1:C:2401:ILE:CG2	1:C:2416:LEU:HD13	1.45	1.43
1:D:2626:VAL:CG1	1:D:2627:THR:H	1.13	1.43
1:A:2715:GLN:NE2	1:B:2713:SER:CB	1.78	1.42
1:C:2368:PHE:HE2	1:C:2395:HIS:CG	1.33	1.42
1:B:89:LEU:C	1:B:92:LEU:CD2	1.88	1.42
1:A:2401:ILE:HG21	1:A:2416:LEU:CD1	1.49	1.42
1:C:2362:VAL:HA	1:C:2402:CYS:SG	1.58	1.42
1:D:547:ALA:CB	1:D:548:PRO:HD2	1.42	1.42
1:D:2362:VAL:HA	1:D:2402:CYS:SG	1.58	1.42
1:A:2433:SER:OG	1:A:2593:PHE:CZ	1.69	1.42
1:C:2345:ILE:O	1:C:2348:VAL:CG1	1.66	1.42
1:A:2343:ARG:O	1:A:2346:PHE:CD2	1.70	1.42
1:D:646:PRO:CA	1:D:649:GLN:N	1.77	1.42
1:A:89:LEU:CA	1:A:92:LEU:HD23	1.46	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2401:ILE:HG21	1:B:2416:LEU:CD1	1.49	1.41
1:C:2401:ILE:HG21	1:C:2416:LEU:CD1	1.49	1.41
1:B:547:ALA:CB	1:B:548:PRO:HD2	1.42	1.41
1:D:2345:ILE:O	1:D:2348:VAL:CG1	1.66	1.41
1:C:2403:ALA:O	1:C:2408:VAL:CG2	1.66	1.41
1:A:2706:MET:CG	1:D:2703:GLU:OE2	1.69	1.41
1:C:2696:ARG:HH12	1:B:2696:ARG:NH2	1.15	1.41
1:B:2345:ILE:O	1:B:2348:VAL:CG1	1.66	1.41
1:B:2622:ASP:OD2	1:B:2628:PHE:CE2	1.74	1.41
1:C:547:ALA:CB	1:C:548:PRO:HD2	1.42	1.40
1:C:2622:ASP:OD2	1:C:2628:PHE:CE2	1.74	1.40
1:A:646:PRO:CA	1:A:649:GLN:N	1.77	1.40
1:A:2403:ALA:O	1:A:2408:VAL:CG2	1.66	1.40
1:A:2702:LEU:CD1	1:D:2700:GLU:CG	1.88	1.40
1:D:2403:ALA:O	1:D:2408:VAL:CG2	1.66	1.40
1:D:2433:SER:OG	1:D:2593:PHE:CZ	1.69	1.40
1:C:2715:GLN:NE2	1:D:2713:SER:HB2	1.30	1.40
1:A:2696:ARG:HH12	1:D:2696:ARG:NH2	1.11	1.40
1:A:2622:ASP:OD2	1:A:2628:PHE:CE2	1.74	1.39
1:D:2401:ILE:HG21	1:D:2416:LEU:CD1	1.49	1.39
1:D:2622:ASP:OD2	1:D:2628:PHE:CE2	1.74	1.39
1:C:89:LEU:CA	1:C:92:LEU:HD23	1.46	1.39
1:C:2433:SER:OG	1:C:2593:PHE:CZ	1.69	1.39
1:D:2612:PHE:CZ	1:D:2638:MET:SD	2.16	1.39
1:B:2213:PRO:HG3	1:B:2647:LEU:CD1	1.53	1.38
1:B:2612:PHE:CZ	1:B:2638:MET:SD	2.16	1.38
1:C:2348:VAL:CB	1:C:2353:THR:HB	1.54	1.38
1:C:2612:PHE:CZ	1:C:2638:MET:SD	2.16	1.38
1:D:2348:VAL:CB	1:D:2353:THR:HB	1.54	1.38
1:A:2612:PHE:CZ	1:A:2638:MET:SD	2.16	1.38
1:A:2626:VAL:CG1	1:A:2627:THR:H	1.13	1.37
1:B:2213:PRO:HD3	1:B:2647:LEU:CB	1.54	1.37
1:D:2213:PRO:HD3	1:D:2647:LEU:CB	1.54	1.37
1:A:300:ASN:OD1	1:D:2730:LYS:HG2	1.19	1.37
1:C:2213:PRO:HD3	1:C:2647:LEU:CB	1.54	1.37
1:C:2213:PRO:HG3	1:C:2647:LEU:CD1	1.53	1.37
1:A:2715:GLN:NE2	1:B:2713:SER:HB2	1.15	1.37
1:A:2213:PRO:HD3	1:A:2647:LEU:CB	1.54	1.36
1:C:270:GLN:NE2	1:C:271:SER:H	1.22	1.36
1:B:2626:VAL:CG1	1:B:2627:THR:H	1.13	1.36
1:A:2213:PRO:HG3	1:A:2647:LEU:CD1	1.53	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:270:GLN:NE2	1:D:271:SER:H	1.22	1.36
1:B:2637:ASN:CG	1:B:2640:HIS:CD2	2.03	1.35
1:C:2715:GLN:NE2	1:D:2713:SER:CB	1.89	1.35
1:A:2348:VAL:CB	1:A:2353:THR:HB	1.54	1.35
1:B:2348:VAL:CB	1:B:2353:THR:HB	1.54	1.34
1:B:2429:ASN:OD1	1:B:2432:LYS:NZ	1.59	1.34
1:D:89:LEU:CA	1:D:92:LEU:HD23	1.46	1.34
1:D:2213:PRO:HG3	1:D:2647:LEU:CD1	1.54	1.34
1:C:2637:ASN:CG	1:C:2640:HIS:CD2	2.03	1.34
1:D:2637:ASN:CG	1:D:2640:HIS:CD2	2.03	1.34
1:A:2348:VAL:CG1	1:A:2353:THR:CB	2.06	1.34
1:B:1245:CYS:O	1:B:1247:GLY:N	1.61	1.34
1:A:2429:ASN:OD1	1:A:2432:LYS:NZ	1.59	1.34
1:A:2559:GLU:CD	1:A:2562:LEU:HD23	1.53	1.34
1:C:2368:PHE:CE2	1:C:2395:HIS:CG	2.16	1.33
1:C:2559:GLU:CD	1:C:2562:LEU:HD23	1.53	1.33
1:B:2348:VAL:CG1	1:B:2353:THR:CB	2.06	1.33
1:C:1072:TYR:O	1:C:1076:VAL:N	1.62	1.33
1:B:2559:GLU:CD	1:B:2562:LEU:HD23	1.53	1.33
1:A:2368:PHE:CE2	1:A:2395:HIS:CD2	2.17	1.33
1:A:2637:ASN:CG	1:A:2640:HIS:CD2	2.03	1.33
1:C:2348:VAL:CG1	1:C:2353:THR:CB	2.06	1.33
1:C:2649:LYS:O	1:C:2650:VAL:HG13	1.20	1.33
1:B:270:GLN:NE2	1:B:271:SER:H	1.22	1.33
1:B:2649:LYS:O	1:B:2650:VAL:HG13	1.20	1.33
1:D:2368:PHE:CE2	1:D:2395:HIS:CG	2.16	1.33
1:A:2583:ASN:HB3	1:B:2586:PHE:CE1	1.63	1.33
1:C:2649:LYS:O	1:C:2650:VAL:CG1	1.77	1.33
1:B:2368:PHE:CE2	1:B:2395:HIS:CD2	2.17	1.33
1:D:2368:PHE:CE2	1:D:2395:HIS:CD2	2.17	1.33
1:A:270:GLN:NE2	1:A:271:SER:H	1.22	1.32
1:C:2368:PHE:CE2	1:C:2395:HIS:CD2	2.17	1.32
1:C:2706:MET:CG	1:B:2703:GLU:OE2	1.76	1.32
1:B:2649:LYS:O	1:B:2650:VAL:CG1	1.77	1.32
1:C:2429:ASN:OD1	1:C:2432:LYS:NZ	1.59	1.32
1:B:2622:ASP:CG	1:B:2628:PHE:CE2	2.08	1.32
1:D:2348:VAL:CG1	1:D:2353:THR:CB	2.06	1.32
1:D:2348:VAL:HB	1:D:2353:THR:CB	1.60	1.32
1:D:2683:LEU:O	1:D:2684:VAL:HG22	1.30	1.32
1:B:2401:ILE:HG12	1:B:2416:LEU:CD2	1.60	1.32
1:A:2401:ILE:HG12	1:A:2416:LEU:CD2	1.60	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2622:ASP:CG	1:C:2628:PHE:CE2	2.08	1.32
1:B:2637:ASN:CG	1:B:2640:HIS:HD2	1.37	1.32
1:C:1245:CYS:O	1:C:1247:GLY:N	1.61	1.31
1:D:510:MET:O	1:D:515:ILE:HB	1.30	1.31
1:A:2576:MET:CE	1:A:2580:ILE:HG13	1.61	1.31
1:B:2348:VAL:HB	1:B:2353:THR:CB	1.60	1.31
1:B:2368:PHE:CE2	1:B:2395:HIS:CG	2.16	1.31
1:D:2345:ILE:CD1	1:D:2356:LEU:CD2	2.08	1.31
1:D:2559:GLU:CD	1:D:2562:LEU:HD23	1.53	1.31
1:D:2649:LYS:O	1:D:2650:VAL:CG1	1.77	1.31
1:C:510:MET:O	1:C:515:ILE:HB	1.30	1.31
1:C:2558:LYS:HD2	1:C:2560:GLU:OE2	1.24	1.31
1:D:573:TYR:O	1:D:577:GLN:HG3	1.24	1.31
1:D:1072:TYR:O	1:D:1076:VAL:N	1.62	1.31
1:D:1245:CYS:O	1:D:1247:GLY:N	1.61	1.31
1:D:2271:ARG:NH1	1:D:2272:ASN:ND2	1.77	1.31
1:A:2348:VAL:HB	1:A:2353:THR:CB	1.60	1.31
1:A:2368:PHE:CE2	1:A:2395:HIS:CG	2.16	1.31
1:C:2345:ILE:CD1	1:C:2356:LEU:CD2	2.08	1.31
1:D:2429:ASN:OD1	1:D:2432:LYS:NZ	1.59	1.31
1:A:2243:PHE:CZ	1:A:2638:MET:HB3	1.66	1.30
1:A:2649:LYS:O	1:A:2650:VAL:CG1	1.77	1.30
1:B:89:LEU:CA	1:B:92:LEU:HD23	1.46	1.30
1:C:2213:PRO:CG	1:C:2647:LEU:HA	1.62	1.30
1:C:2348:VAL:HB	1:C:2353:THR:CB	1.59	1.30
1:A:1072:TYR:O	1:A:1076:VAL:N	1.62	1.30
1:A:2345:ILE:CD1	1:A:2356:LEU:CD2	2.08	1.30
1:B:1072:TYR:O	1:B:1076:VAL:N	1.62	1.30
1:C:886:ARG:O	1:C:890:ILE:N	1.65	1.30
1:D:2211:PRO:O	1:D:2647:LEU:HD22	1.31	1.30
1:C:2271:ARG:NH1	1:C:2272:ASN:ND2	1.77	1.30
1:C:2401:ILE:HG12	1:C:2416:LEU:CD2	1.60	1.30
1:B:2576:MET:CE	1:B:2580:ILE:HG13	1.60	1.30
1:A:72:PHE:CD1	1:A:93:HIS:HB2	1.67	1.29
1:A:886:ARG:O	1:A:890:ILE:N	1.65	1.29
1:B:2243:PHE:CZ	1:B:2638:MET:HB3	1.66	1.29
1:D:2401:ILE:HG12	1:D:2416:LEU:CD2	1.60	1.29
1:D:2622:ASP:CG	1:D:2628:PHE:CE2	2.08	1.29
1:A:1245:CYS:O	1:A:1247:GLY:N	1.61	1.29
1:A:2622:ASP:CG	1:A:2628:PHE:CE2	2.08	1.29
1:A:2637:ASN:CG	1:A:2640:HIS:HD2	1.37	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2368:PHE:HZ	1:C:2395:HIS:NE2	1.29	1.29
1:B:573:TYR:O	1:B:577:GLN:HG3	1.24	1.29
1:B:2368:PHE:HZ	1:B:2395:HIS:NE2	1.29	1.29
1:A:2683:LEU:O	1:A:2684:VAL:HG22	1.30	1.29
1:C:2576:MET:CE	1:C:2580:ILE:HG13	1.61	1.29
1:B:886:ARG:O	1:B:890:ILE:N	1.65	1.29
1:B:2213:PRO:CG	1:B:2647:LEU:HA	1.62	1.29
1:D:2576:MET:CE	1:D:2580:ILE:HG13	1.61	1.29
1:A:2637:ASN:ND2	1:A:2640:HIS:NE2	1.80	1.29
1:A:300:ASN:OD1	1:D:2730:LYS:CG	1.79	1.28
1:C:72:PHE:CD1	1:C:93:HIS:HB2	1.67	1.28
1:B:2271:ARG:NH1	1:B:2272:ASN:ND2	1.77	1.28
1:D:2243:PHE:CZ	1:D:2638:MET:HB3	1.66	1.28
1:D:2558:LYS:HD2	1:D:2560:GLU:OE2	1.24	1.28
1:B:510:MET:O	1:B:515:ILE:HB	1.30	1.28
1:B:2345:ILE:CD1	1:B:2356:LEU:CD2	2.08	1.28
1:D:2213:PRO:CG	1:D:2647:LEU:HA	1.62	1.28
1:A:2271:ARG:NH1	1:A:2272:ASN:ND2	1.77	1.28
1:A:2583:ASN:ND2	1:B:2586:PHE:HA	1.45	1.28
1:C:2696:ARG:NH1	1:B:2696:ARG:CZ	1.91	1.28
1:A:2583:ASN:CB	1:B:2586:PHE:CE1	2.17	1.28
1:D:69:GLN:N	1:D:100:LYS:NZ	1.80	1.28
1:D:72:PHE:CD1	1:D:93:HIS:HB2	1.67	1.28
1:D:886:ARG:O	1:D:890:ILE:N	1.65	1.28
1:D:2368:PHE:HZ	1:D:2395:HIS:NE2	1.29	1.28
1:A:2213:PRO:CG	1:A:2647:LEU:HA	1.62	1.27
1:C:1356:GLN:CA	1:C:1416:ILE:O	1.82	1.27
1:C:2211:PRO:O	1:C:2647:LEU:HD22	1.32	1.27
1:C:2243:PHE:CZ	1:C:2638:MET:HB3	1.66	1.27
1:C:2348:VAL:CB	1:C:2353:THR:CB	2.12	1.27
1:C:2368:PHE:CZ	1:C:2395:HIS:NE2	2.02	1.27
1:B:72:PHE:CD1	1:B:93:HIS:HB2	1.67	1.27
1:B:2637:ASN:ND2	1:B:2640:HIS:NE2	1.80	1.27
1:D:2637:ASN:ND2	1:D:2640:HIS:NE2	1.80	1.27
1:A:510:MET:O	1:A:515:ILE:HB	1.30	1.27
1:A:1356:GLN:CA	1:A:1416:ILE:O	1.82	1.27
1:C:2683:LEU:O	1:C:2684:VAL:HG22	1.29	1.27
1:A:2558:LYS:HD2	1:A:2560:GLU:OE2	1.24	1.27
1:C:567:TYR:CB	1:C:571:GLN:OE1	1.83	1.27
1:C:573:TYR:O	1:C:577:GLN:HG3	1.24	1.27
1:C:2637:ASN:ND2	1:C:2640:HIS:NE2	1.80	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:567:TYR:CB	1:D:571:GLN:OE1	1.83	1.27
1:A:275:ALA:CB	2:A:2801:JYP:C5	2.11	1.27
1:B:2558:LYS:HD2	1:B:2560:GLU:OE2	1.24	1.27
1:D:275:ALA:CB	2:D:2801:JYP:C5	2.11	1.27
1:A:573:TYR:O	1:A:577:GLN:HG3	1.24	1.27
1:A:2368:PHE:HZ	1:A:2395:HIS:NE2	1.29	1.27
1:D:2649:LYS:O	1:D:2650:VAL:HG13	1.20	1.27
1:A:2211:PRO:O	1:A:2647:LEU:HD22	1.31	1.26
1:B:567:TYR:CB	1:B:571:GLN:OE1	1.83	1.26
1:A:567:TYR:CB	1:A:571:GLN:OE1	1.83	1.26
1:A:2213:PRO:CD	1:A:2647:LEU:CB	2.12	1.26
1:C:69:GLN:N	1:C:100:LYS:NZ	1.80	1.26
1:C:2586:PHE:CE1	1:B:2583:ASN:HB3	1.69	1.26
1:B:2211:PRO:O	1:B:2647:LEU:HD22	1.31	1.26
1:A:2285:VAL:CG2	1:A:2417:LEU:HD13	1.66	1.26
1:B:69:GLN:N	1:B:100:LYS:NZ	1.80	1.26
1:B:275:ALA:CB	2:B:2801:JYP:C5	2.11	1.26
1:B:2368:PHE:CZ	1:B:2395:HIS:NE2	2.02	1.26
1:C:275:ALA:CB	2:C:2801:JYP:C5	2.11	1.26
1:D:2637:ASN:CG	1:D:2640:HIS:HD2	1.37	1.26
1:A:69:GLN:N	1:A:100:LYS:NZ	1.80	1.26
1:D:2285:VAL:CG2	1:D:2417:LEU:HD13	1.66	1.26
1:D:2573:PHE:CE1	1:D:2577:VAL:HG21	1.69	1.26
1:A:2368:PHE:CZ	1:A:2395:HIS:NE2	2.02	1.25
1:A:2713:SER:CB	1:D:2715:GLN:NE2	1.98	1.25
1:C:2573:PHE:CE1	1:C:2577:VAL:HG21	1.70	1.25
1:B:1356:GLN:CA	1:B:1416:ILE:O	1.82	1.25
1:B:2573:PHE:CE1	1:B:2577:VAL:HG21	1.70	1.25
1:D:1356:GLN:CA	1:D:1416:ILE:O	1.82	1.25
1:D:2401:ILE:CD1	1:D:2416:LEU:HD22	1.66	1.25
1:A:2583:ASN:HB3	1:B:2586:PHE:CD1	1.71	1.25
1:A:2573:PHE:CE1	1:A:2577:VAL:HG21	1.69	1.25
1:A:2700:GLU:OE1	1:B:2699:GLN:HA	1.36	1.25
1:C:2213:PRO:CD	1:C:2647:LEU:CB	2.12	1.25
1:C:2583:ASN:OD1	1:D:2589:ILE:HG21	1.27	1.25
1:B:2559:GLU:CD	1:B:2562:LEU:CD2	2.09	1.25
1:A:2559:GLU:CD	1:A:2562:LEU:CD2	2.09	1.25
1:C:300:ASN:OD1	1:B:2730:LYS:HG2	1.34	1.25
1:C:2210:PHE:CE2	1:C:2647:LEU:HD21	1.71	1.25
1:B:449:ALA:O	1:B:453:LEU:CG	1.85	1.25
1:D:69:GLN:HE21	1:D:100:LYS:CD	1.50	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2210:PHE:CE2	1:D:2647:LEU:HD21	1.71	1.25
1:A:449:ALA:O	1:A:453:LEU:CG	1.85	1.25
1:A:2715:GLN:OE1	1:A:2718:GLU:OE1	1.55	1.25
1:C:69:GLN:HE21	1:C:100:LYS:CD	1.50	1.25
1:C:2559:GLU:CD	1:C:2562:LEU:CD2	2.09	1.25
1:D:2368:PHE:CZ	1:D:2395:HIS:NE2	2.02	1.25
1:A:69:GLN:HE21	1:A:100:LYS:CD	1.50	1.24
1:A:2583:ASN:OD1	1:B:2589:ILE:HG21	1.34	1.24
1:A:2649:LYS:O	1:A:2650:VAL:HG13	1.20	1.24
1:A:2700:GLU:CD	1:B:2702:LEU:HD12	1.47	1.24
1:C:1248:ASN:CA	1:C:1252:GLN:CA	2.16	1.24
1:C:2211:PRO:O	1:C:2647:LEU:CD2	1.85	1.24
1:C:2637:ASN:CG	1:C:2640:HIS:HD2	1.37	1.24
1:B:69:GLN:HE21	1:B:100:LYS:CD	1.50	1.24
1:B:1248:ASN:CA	1:B:1252:GLN:CA	2.16	1.24
1:B:2213:PRO:CD	1:B:2647:LEU:CB	2.12	1.24
1:D:2211:PRO:O	1:D:2647:LEU:CD2	1.85	1.24
1:D:2559:GLU:CD	1:D:2562:LEU:CD2	2.09	1.24
1:A:2178:GLY:O	1:A:2186:LEU:HD11	1.06	1.24
1:C:2403:ALA:O	1:C:2408:VAL:HG21	1.17	1.24
1:C:2583:ASN:HB3	1:D:2586:PHE:CE1	1.72	1.24
1:B:2210:PHE:CE2	1:B:2647:LEU:HD21	1.71	1.24
1:C:2285:VAL:CG2	1:C:2417:LEU:HD13	1.66	1.24
1:B:2433:SER:HB2	1:B:2593:PHE:CE2	1.66	1.24
1:A:1248:ASN:CA	1:A:1252:GLN:CA	2.15	1.24
1:A:2210:PHE:CE2	1:A:2647:LEU:HD21	1.71	1.24
1:C:2178:GLY:O	1:C:2186:LEU:CD1	1.86	1.24
1:B:2683:LEU:O	1:B:2684:VAL:HG22	1.29	1.24
1:D:449:ALA:O	1:D:453:LEU:CG	1.85	1.24
1:A:2178:GLY:O	1:A:2186:LEU:CD1	1.86	1.23
1:C:514:ASN:ND2	1:C:517:LYS:CD	1.93	1.23
1:B:2401:ILE:CD1	1:B:2416:LEU:HD22	1.66	1.23
1:D:2178:GLY:O	1:D:2186:LEU:HD11	1.06	1.23
1:A:2677:ARG:HD3	1:B:2623:ASN:OD1	1.36	1.23
1:C:2213:PRO:CG	1:C:2647:LEU:CB	2.17	1.23
1:D:449:ALA:O	1:D:453:LEU:HG	1.08	1.23
1:D:2715:GLN:OE1	1:D:2718:GLU:OE1	1.55	1.23
1:A:2288:ASN:CB	1:A:2413:TYR:HB3	1.68	1.23
1:C:2401:ILE:CD1	1:C:2416:LEU:HD22	1.66	1.23
1:C:2586:PHE:CE1	1:B:2583:ASN:CB	2.21	1.23
1:C:2715:GLN:OE1	1:C:2718:GLU:OE1	1.55	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2213:PRO:CG	1:B:2647:LEU:CB	2.17	1.23
1:B:2285:VAL:CG2	1:B:2417:LEU:HD13	1.66	1.23
1:A:2713:SER:HB2	1:D:2715:GLN:NE2	1.49	1.23
1:B:2288:ASN:CB	1:B:2413:TYR:HB3	1.68	1.23
1:A:2589:ILE:HG21	1:D:2583:ASN:OD1	1.37	1.23
1:B:2715:GLN:OE1	1:B:2718:GLU:OE1	1.55	1.23
1:D:2178:GLY:O	1:D:2186:LEU:CD1	1.86	1.23
1:D:2178:GLY:CA	1:D:2186:LEU:HD21	1.68	1.23
1:D:2213:PRO:CD	1:D:2647:LEU:CB	2.12	1.23
1:C:449:ALA:O	1:C:453:LEU:CG	1.85	1.22
1:C:1302:HIS:CA	1:B:144:LYS:CB	2.16	1.22
1:B:2178:GLY:O	1:B:2186:LEU:CD1	1.86	1.22
1:B:2348:VAL:CB	1:B:2353:THR:CB	2.12	1.22
1:D:1248:ASN:CA	1:D:1252:GLN:CA	2.16	1.22
1:A:2401:ILE:CD1	1:A:2416:LEU:HD22	1.66	1.22
1:C:449:ALA:O	1:C:453:LEU:HG	1.08	1.22
1:C:2178:GLY:O	1:C:2186:LEU:HD11	1.06	1.22
1:B:2211:PRO:O	1:B:2647:LEU:CD2	1.85	1.22
1:B:2559:GLU:OE1	1:B:2562:LEU:CD2	1.87	1.22
1:A:2559:GLU:OE1	1:A:2562:LEU:CD2	1.87	1.22
1:B:2178:GLY:O	1:B:2186:LEU:HD11	1.06	1.22
1:D:442:ASP:OD1	1:D:483:PHE:CE2	1.93	1.22
1:A:442:ASP:OD1	1:A:483:PHE:CE2	1.93	1.22
1:D:2348:VAL:CG2	1:D:2353:THR:HG21	1.70	1.22
1:A:449:ALA:O	1:A:453:LEU:HG	1.08	1.21
1:B:2178:GLY:CA	1:B:2186:LEU:HD21	1.68	1.21
1:D:2288:ASN:CB	1:D:2413:TYR:HB3	1.68	1.21
1:D:2622:ASP:OD1	1:D:2628:PHE:CE1	1.94	1.21
1:A:2213:PRO:CG	1:A:2647:LEU:CB	2.17	1.21
1:B:449:ALA:O	1:B:453:LEU:HG	1.08	1.21
1:D:2559:GLU:OE1	1:D:2562:LEU:CD2	1.87	1.21
1:A:2211:PRO:O	1:A:2647:LEU:CD2	1.85	1.21
1:C:2348:VAL:CG2	1:C:2353:THR:HG21	1.70	1.21
1:B:2348:VAL:CB	1:B:2353:THR:CG2	2.19	1.21
1:B:2348:VAL:CG2	1:B:2353:THR:HG21	1.70	1.21
1:A:2178:GLY:CA	1:A:2186:LEU:HD21	1.68	1.21
1:A:2622:ASP:OD1	1:A:2628:PHE:CE1	1.94	1.21
1:C:2622:ASP:OD1	1:C:2628:PHE:CE1	1.94	1.21
1:D:2213:PRO:CG	1:D:2647:LEU:CB	2.17	1.21
1:D:2348:VAL:CB	1:D:2353:THR:CG2	2.19	1.21
1:C:2348:VAL:CB	1:C:2353:THR:CG2	2.19	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2559:GLU:OE1	1:C:2562:LEU:CD2	1.87	1.21
1:B:442:ASP:OD1	1:B:483:PHE:CE2	1.93	1.21
1:C:270:GLN:NE2	1:C:271:SER:N	1.89	1.20
1:B:2272:ASN:C	1:B:2276:TRP:CD1	2.18	1.20
1:C:2288:ASN:CB	1:C:2413:TYR:HB3	1.68	1.20
1:B:2243:PHE:CE1	1:B:2642:LEU:CD1	1.95	1.20
1:A:2348:VAL:CG2	1:A:2353:THR:HG21	1.70	1.20
1:C:2178:GLY:CA	1:C:2186:LEU:HD21	1.68	1.20
1:A:2348:VAL:CB	1:A:2353:THR:CG2	2.19	1.20
1:A:2700:GLU:HG2	1:B:2702:LEU:CD1	1.53	1.20
1:C:442:ASP:OD1	1:C:483:PHE:CE2	1.93	1.20
1:D:2348:VAL:CB	1:D:2353:THR:CB	2.12	1.20
1:B:2622:ASP:OD1	1:B:2628:PHE:CE1	1.94	1.20
1:A:270:GLN:O	1:A:272:ALA:N	1.75	1.19
1:D:2403:ALA:O	1:D:2408:VAL:HG21	1.16	1.19
1:A:2243:PHE:CE2	1:A:2638:MET:HB3	1.77	1.19
1:A:2433:SER:HB2	1:A:2593:PHE:CE2	1.66	1.19
1:C:2700:GLU:OE1	1:D:2699:GLN:HA	1.41	1.19
1:D:514:ASN:ND2	1:D:517:LYS:CD	1.93	1.19
1:C:2243:PHE:CE1	1:C:2642:LEU:CD1	1.95	1.19
1:C:2710:THR:CB	1:B:2707:LYS:HZ1	1.44	1.19
1:D:2359:ALA:O	1:D:2363:CYS:SG	2.01	1.19
1:D:2649:LYS:O	1:D:2650:VAL:HG22	1.42	1.19
1:A:270:GLN:NE2	1:A:271:SER:N	1.89	1.19
1:A:514:ASN:ND2	1:A:517:LYS:CD	1.93	1.19
1:B:2287:MET:O	1:B:2290:LEU:HB3	1.42	1.19
1:A:89:LEU:C	1:A:92:LEU:HD23	1.58	1.19
1:A:2559:GLU:CG	1:A:2562:LEU:HD23	1.73	1.19
1:C:2559:GLU:CG	1:C:2562:LEU:HD23	1.73	1.19
1:D:89:LEU:C	1:D:92:LEU:HD23	1.58	1.19
1:A:2359:ALA:O	1:A:2363:CYS:SG	2.01	1.18
1:B:270:GLN:O	1:B:272:ALA:N	1.75	1.18
1:B:2359:ALA:O	1:B:2363:CYS:SG	2.01	1.18
1:B:2559:GLU:CG	1:B:2562:LEU:HD23	1.73	1.18
1:D:270:GLN:NE2	1:D:271:SER:N	1.89	1.18
1:A:2412:PHE:O	1:A:2414:SER:N	1.77	1.18
1:A:2707:LYS:HE2	1:B:2706:MET:O	1.43	1.18
1:B:567:TYR:HB3	1:B:571:GLN:OE1	1.00	1.18
1:D:2273:MET:HB2	1:D:2371:SER:OG	1.43	1.18
1:D:2287:MET:O	1:D:2290:LEU:HB3	1.41	1.18
1:A:563:SER:O	1:A:567:TYR:HD2	1.27	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2359:ALA:O	1:C:2363:CYS:SG	2.01	1.18
1:B:270:GLN:NE2	1:B:271:SER:N	1.89	1.18
1:B:2243:PHE:CE2	1:B:2638:MET:HB3	1.77	1.18
1:D:1317:LYS:C	1:D:1385:CYS:O	1.86	1.18
1:A:2584:LEU:HD11	1:B:2434:VAL:CG2	1.73	1.18
1:C:2243:PHE:CE2	1:C:2638:MET:HB3	1.77	1.18
1:C:2272:ASN:C	1:C:2276:TRP:CD1	2.18	1.18
1:B:563:SER:O	1:B:567:TYR:HD2	1.27	1.18
1:A:32:LEU:CB	1:A:445:PHE:CG	2.27	1.18
1:A:2272:ASN:C	1:A:2276:TRP:CD1	2.18	1.18
1:A:2699:GLN:HA	1:D:2700:GLU:OE1	1.42	1.18
1:B:78:PRO:O	1:B:81:ASN:O	1.62	1.18
1:B:567:TYR:HB3	1:B:571:GLN:CD	1.69	1.18
1:A:78:PRO:O	1:A:81:ASN:O	1.62	1.17
1:A:1317:LYS:C	1:A:1385:CYS:O	1.86	1.17
1:C:567:TYR:HB3	1:C:571:GLN:CD	1.69	1.17
1:B:2649:LYS:O	1:B:2650:VAL:HG22	1.43	1.17
1:D:32:LEU:CB	1:D:445:PHE:CG	2.27	1.17
1:D:563:SER:O	1:D:567:TYR:HD2	1.27	1.17
1:A:2287:MET:O	1:A:2290:LEU:HB3	1.41	1.17
1:C:567:TYR:HB3	1:C:571:GLN:OE1	1.00	1.17
1:C:2412:PHE:O	1:C:2414:SER:N	1.77	1.17
1:D:78:PRO:O	1:D:81:ASN:O	1.62	1.17
1:D:2345:ILE:HD13	1:D:2356:LEU:CD2	1.73	1.17
1:A:2348:VAL:CB	1:A:2353:THR:CB	2.12	1.17
1:C:270:GLN:O	1:C:272:ALA:N	1.75	1.17
1:C:270:GLN:N	2:C:2801:JYP:N2	1.67	1.17
1:C:1317:LYS:C	1:C:1385:CYS:O	1.86	1.17
1:C:2213:PRO:CG	1:C:2647:LEU:HB2	1.75	1.17
1:C:2273:MET:HB2	1:C:2371:SER:OG	1.43	1.17
1:B:2637:ASN:CB	1:B:2640:HIS:HD2	1.58	1.17
1:D:567:TYR:HB3	1:D:571:GLN:CD	1.69	1.17
1:D:2243:PHE:CE2	1:D:2638:MET:HB3	1.77	1.17
1:A:2368:PHE:CZ	1:A:2395:HIS:CD2	2.33	1.17
1:A:2403:ALA:O	1:A:2408:VAL:HG21	1.17	1.17
1:A:2637:ASN:CB	1:A:2640:HIS:HD2	1.58	1.17
1:C:78:PRO:O	1:C:81:ASN:O	1.62	1.17
1:B:570:ASN:HB3	1:B:571:GLN:OE1	1.44	1.17
1:D:270:GLN:O	1:D:272:ALA:N	1.75	1.17
1:D:2412:PHE:O	1:D:2414:SER:N	1.77	1.17
1:D:2559:GLU:CG	1:D:2562:LEU:HD23	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2452:VAL:HG23	1:C:2573:PHE:CE1	1.80	1.17
1:C:2560:GLU:CG	1:C:2563:PHE:CE2	2.28	1.17
1:A:567:TYR:HB3	1:A:571:GLN:OE1	1.00	1.16
1:C:32:LEU:CB	1:C:445:PHE:CG	2.27	1.16
1:C:2239:LYS:HG2	1:C:2240:ILE:H	1.04	1.16
1:C:2433:SER:HB2	1:C:2593:PHE:CE2	1.66	1.16
1:B:2412:PHE:O	1:B:2414:SER:N	1.77	1.16
1:D:2368:PHE:HE2	1:D:2395:HIS:CD2	1.60	1.16
1:A:574:ILE:HA	1:A:577:GLN:OE1	1.43	1.16
1:A:2288:ASN:ND2	1:A:2417:LEU:HB2	1.59	1.16
1:A:2706:MET:HG3	1:D:2703:GLU:OE2	0.99	1.16
1:C:570:ASN:HB3	1:C:571:GLN:OE1	1.44	1.16
1:C:2558:LYS:HD2	1:C:2560:GLU:CD	1.71	1.16
1:B:1317:LYS:C	1:B:1385:CYS:O	1.86	1.16
1:B:2612:PHE:CE2	1:B:2638:MET:SD	2.38	1.16
1:D:2213:PRO:CG	1:D:2647:LEU:HB2	1.75	1.16
1:C:563:SER:O	1:C:567:TYR:HD2	1.27	1.16
1:C:2239:LYS:HG2	1:C:2240:ILE:HG13	1.18	1.16
1:C:2649:LYS:O	1:C:2650:VAL:HG22	1.42	1.16
1:C:2706:MET:HG3	1:B:2703:GLU:OE2	0.98	1.16
1:B:32:LEU:CB	1:B:445:PHE:CG	2.27	1.16
1:B:2403:ALA:O	1:B:2408:VAL:HG21	1.16	1.16
1:B:2649:LYS:O	1:B:2650:VAL:CG2	1.94	1.16
1:D:2560:GLU:CG	1:D:2563:PHE:CE2	2.28	1.16
1:A:2700:GLU:HG3	1:B:2702:LEU:HD13	1.18	1.16
1:B:567:TYR:HA	2:B:2801:JYP:O9	1.45	1.16
1:B:2213:PRO:CG	1:B:2647:LEU:HB2	1.74	1.16
1:B:2368:PHE:CZ	1:B:2395:HIS:CD2	2.33	1.16
1:B:2558:LYS:HD2	1:B:2560:GLU:CD	1.71	1.16
1:D:2452:VAL:HG23	1:D:2573:PHE:CE1	1.80	1.16
1:D:2637:ASN:CB	1:D:2640:HIS:HD2	1.58	1.16
1:A:567:TYR:HB3	1:A:571:GLN:CD	1.69	1.16
1:A:567:TYR:HA	2:A:2801:JYP:O9	1.45	1.16
1:C:2637:ASN:CB	1:C:2640:HIS:HD2	1.58	1.16
1:B:514:ASN:ND2	1:B:517:LYS:CD	1.93	1.16
1:B:1619:VAL:O	1:B:1621:ALA:N	1.79	1.16
1:B:2452:VAL:HG23	1:B:2573:PHE:CE1	1.80	1.16
1:D:2368:PHE:CZ	1:D:2395:HIS:CD2	2.33	1.16
1:A:2273:MET:HB2	1:A:2371:SER:OG	1.43	1.15
1:A:2368:PHE:HE2	1:A:2395:HIS:CD2	1.60	1.15
1:B:68:ALA:HB3	1:B:99:GLU:OE1	1.46	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2368:PHE:HE2	1:B:2395:HIS:CD2	1.60	1.15
1:B:2433:SER:HB3	1:B:2593:PHE:CZ	1.70	1.15
1:D:567:TYR:HB3	1:D:571:GLN:OE1	1.00	1.15
1:D:2348:VAL:HG21	1:D:2353:THR:CG2	1.76	1.15
1:D:2433:SER:HB2	1:D:2593:PHE:CE2	1.66	1.15
1:C:2287:MET:O	1:C:2290:LEU:HB3	1.41	1.15
1:C:2288:ASN:ND2	1:C:2417:LEU:HB2	1.60	1.15
1:B:574:ILE:HA	1:B:577:GLN:OE1	1.43	1.15
1:B:1334:LEU:O	1:B:1337:SER:C	1.90	1.15
1:B:2345:ILE:HD13	1:B:2356:LEU:HD21	1.26	1.15
1:D:2558:LYS:HD2	1:D:2560:GLU:CD	1.71	1.15
1:A:2452:VAL:HG23	1:A:2573:PHE:CE1	1.80	1.15
1:C:2649:LYS:O	1:C:2650:VAL:CG2	1.93	1.15
1:D:2370:MET:HA	1:D:2370:MET:HE3	1.29	1.15
1:A:2559:GLU:OE1	1:A:2562:LEU:HD21	1.45	1.15
1:A:2612:PHE:CE2	1:A:2638:MET:SD	2.38	1.15
1:C:2348:VAL:HG21	1:C:2353:THR:CG2	1.76	1.15
1:C:2368:PHE:CZ	1:C:2395:HIS:CD2	2.33	1.15
1:B:2361:ASN:ND2	1:B:2401:ILE:HD11	1.61	1.15
1:D:570:ASN:HB3	1:D:571:GLN:OE1	1.44	1.15
1:D:574:ILE:HA	1:D:577:GLN:OE1	1.43	1.15
1:D:2612:PHE:CE2	1:D:2638:MET:SD	2.38	1.15
1:D:2622:ASP:CG	1:D:2628:PHE:CD2	2.25	1.15
1:A:2213:PRO:HG2	1:A:2647:LEU:CA	1.77	1.15
1:A:2348:VAL:HG21	1:A:2353:THR:CG2	1.76	1.15
1:B:2273:MET:HB2	1:B:2371:SER:OG	1.43	1.15
1:D:1334:LEU:O	1:D:1337:SER:C	1.90	1.15
1:D:1619:VAL:O	1:D:1621:ALA:N	1.79	1.15
1:D:2272:ASN:C	1:D:2276:TRP:CD1	2.18	1.15
1:D:2288:ASN:ND2	1:D:2417:LEU:HB2	1.59	1.15
1:D:2345:ILE:HD11	1:D:2356:LEU:CD2	1.75	1.15
1:D:2559:GLU:OE1	1:D:2562:LEU:HD21	1.45	1.15
1:D:2649:LYS:O	1:D:2650:VAL:CG2	1.93	1.15
1:A:32:LEU:CB	1:A:445:PHE:CD1	2.30	1.14
1:C:68:ALA:HB3	1:C:99:GLU:OE1	1.46	1.14
1:C:2213:PRO:CG	1:C:2647:LEU:CA	2.25	1.14
1:C:2345:ILE:HG23	1:C:2353:THR:OG1	1.45	1.14
1:D:2271:ARG:NH1	1:D:2272:ASN:HD21	1.38	1.14
1:A:1334:LEU:O	1:A:1337:SER:C	1.90	1.14
1:A:2213:PRO:CG	1:A:2647:LEU:CA	2.25	1.14
1:C:2285:VAL:HG21	1:C:2417:LEU:HD13	1.14	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2612:PHE:CE2	1:C:2638:MET:SD	2.38	1.14
1:B:460:LEU:HD23	1:B:465:ILE:HG23	1.15	1.14
1:B:2288:ASN:ND2	1:B:2417:LEU:HB2	1.59	1.14
1:B:2559:GLU:OE1	1:B:2562:LEU:HD21	1.45	1.14
1:D:2345:ILE:HG23	1:D:2353:THR:OG1	1.45	1.14
1:A:2243:PHE:CE1	1:A:2642:LEU:CD1	1.95	1.14
1:A:2573:PHE:CZ	1:A:2577:VAL:HG21	1.82	1.14
1:C:2213:PRO:HG2	1:C:2647:LEU:CA	1.77	1.14
1:B:2622:ASP:CG	1:B:2628:PHE:CD2	2.25	1.14
1:A:68:ALA:HB3	1:A:99:GLU:OE1	1.46	1.14
1:A:567:TYR:CB	1:A:571:GLN:CD	2.20	1.14
1:A:570:ASN:HB3	1:A:571:GLN:OE1	1.44	1.14
1:A:2649:LYS:O	1:A:2650:VAL:CG2	1.93	1.14
1:C:32:LEU:CB	1:C:445:PHE:CD1	2.30	1.14
1:C:574:ILE:HA	1:C:577:GLN:OE1	1.43	1.14
1:C:2361:ASN:ND2	1:C:2401:ILE:HD11	1.62	1.14
1:D:68:ALA:HB3	1:D:99:GLU:OE1	1.46	1.14
1:D:514:ASN:ND2	1:D:517:LYS:HD2	1.21	1.14
1:D:567:TYR:CB	1:D:571:GLN:CD	2.20	1.14
1:D:2213:PRO:HG2	1:D:2647:LEU:CA	1.77	1.14
1:D:2713:SER:O	1:D:2716:LEU:HG	1.46	1.14
1:A:460:LEU:HD23	1:A:465:ILE:HG23	1.16	1.14
1:A:1302:HIS:CA	1:D:144:LYS:CB	2.26	1.14
1:A:1619:VAL:O	1:A:1621:ALA:N	1.79	1.14
1:A:2702:LEU:CD1	1:D:2700:GLU:HG2	1.74	1.14
1:C:1334:LEU:O	1:C:1337:SER:C	1.90	1.14
1:C:1619:VAL:O	1:C:1621:ALA:N	1.79	1.14
1:C:2573:PHE:CZ	1:C:2577:VAL:HG21	1.83	1.14
1:A:2649:LYS:O	1:A:2650:VAL:HG22	1.43	1.13
1:B:32:LEU:CB	1:B:445:PHE:CD1	2.30	1.13
1:B:2213:PRO:CG	1:B:2647:LEU:CA	2.25	1.13
1:B:2288:ASN:HD21	1:B:2417:LEU:HB2	0.97	1.13
1:D:32:LEU:CB	1:D:445:PHE:CD1	2.30	1.13
1:D:2213:PRO:CG	1:D:2647:LEU:CA	2.25	1.13
1:D:2243:PHE:CE1	1:D:2642:LEU:CD1	1.95	1.13
1:A:2345:ILE:HG23	1:A:2353:THR:OG1	1.45	1.13
1:A:2558:LYS:HD2	1:A:2560:GLU:CD	1.71	1.13
1:A:2560:GLU:HG3	1:A:2563:PHE:HE2	1.01	1.13
1:C:514:ASN:ND2	1:C:517:LYS:HD2	1.21	1.13
1:C:2345:ILE:HD11	1:C:2356:LEU:CD2	1.75	1.13
1:C:2434:VAL:HG21	1:B:2584:LEU:HD11	1.24	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2345:ILE:HG23	1:B:2353:THR:OG1	1.45	1.13
1:B:2348:VAL:HG21	1:B:2353:THR:CG2	1.76	1.13
1:A:2622:ASP:CG	1:A:2628:PHE:CD2	2.25	1.13
1:C:2559:GLU:OE1	1:C:2562:LEU:HD21	1.45	1.13
1:B:2649:LYS:O	1:B:2650:VAL:CB	1.96	1.13
1:D:270:GLN:N	2:D:2801:JYP:N2	1.67	1.13
1:D:460:LEU:HD23	1:D:465:ILE:HG23	1.15	1.13
1:A:300:ASN:OD1	1:D:2730:LYS:CB	1.96	1.13
1:A:514:ASN:ND2	1:A:517:LYS:HD2	1.21	1.13
1:A:2361:ASN:ND2	1:A:2401:ILE:HD11	1.62	1.13
1:A:2677:ARG:HH21	1:B:2623:ASN:CG	1.57	1.13
1:C:567:TYR:HA	2:C:2801:JYP:O9	1.45	1.13
1:B:1097:PHE:O	1:B:1099:GLN:N	1.82	1.13
1:B:2213:PRO:HG2	1:B:2647:LEU:HA	1.14	1.13
1:D:2573:PHE:CZ	1:D:2577:VAL:HG21	1.82	1.13
1:D:2654:THR:O	1:D:2657:THR:HG22	1.33	1.13
1:A:2713:SER:O	1:A:2716:LEU:HG	1.46	1.13
1:C:300:ASN:OD1	1:B:2730:LYS:CG	1.97	1.13
1:C:460:LEU:HD23	1:C:465:ILE:HG23	1.15	1.13
1:C:2288:ASN:HD21	1:C:2417:LEU:HB2	0.97	1.13
1:A:564:GLN:HB3	1:A:574:ILE:HD12	1.31	1.12
1:A:1097:PHE:O	1:A:1099:GLN:N	1.82	1.12
1:A:2345:ILE:HD13	1:A:2356:LEU:CD2	1.73	1.12
1:C:2713:SER:O	1:C:2716:LEU:HG	1.46	1.13
1:D:2285:VAL:HG21	1:D:2417:LEU:HD13	1.14	1.13
1:D:2361:ASN:ND2	1:D:2401:ILE:HD11	1.62	1.13
1:B:2213:PRO:HG2	1:B:2647:LEU:CA	1.77	1.12
1:D:2213:PRO:HG2	1:D:2647:LEU:HA	1.14	1.12
1:A:270:GLN:N	2:A:2801:JYP:N2	1.67	1.12
1:A:2213:PRO:CG	1:A:2647:LEU:HB2	1.75	1.12
1:A:2700:GLU:HG3	1:B:2702:LEU:CD1	1.70	1.12
1:C:2370:MET:HA	1:C:2370:MET:HE3	1.29	1.12
1:C:2589:ILE:HG21	1:B:2583:ASN:OD1	1.49	1.12
1:B:567:TYR:CB	1:B:571:GLN:CD	2.20	1.12
1:B:2622:ASP:CG	1:B:2628:PHE:CZ	2.28	1.12
1:D:2384:ARG:O	1:D:2388:LEU:CD2	1.98	1.12
1:A:2384:ARG:O	1:A:2388:LEU:CD2	1.97	1.12
1:C:1097:PHE:O	1:C:1099:GLN:N	1.82	1.12
1:C:2271:ARG:NH1	1:C:2272:ASN:CG	2.07	1.12
1:C:2368:PHE:HE2	1:C:2395:HIS:CD2	1.60	1.12
1:B:564:GLN:HB3	1:B:574:ILE:HD12	1.31	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2345:ILE:HD11	1:B:2356:LEU:CD2	1.75	1.12
1:B:2370:MET:HA	1:B:2370:MET:HE3	1.29	1.12
1:B:2560:GLU:HG3	1:B:2563:PHE:HE2	1.00	1.12
1:D:567:TYR:HA	2:D:2801:JYP:O9	1.45	1.12
1:D:1097:PHE:O	1:D:1099:GLN:N	1.82	1.12
1:A:564:GLN:CB	1:A:574:ILE:HD12	1.79	1.12
1:A:771:GLU:O	1:A:773:LEU:N	1.83	1.12
1:A:2433:SER:HB3	1:A:2593:PHE:CZ	1.70	1.12
1:C:567:TYR:CB	1:C:571:GLN:CD	2.20	1.12
1:C:771:GLU:O	1:C:773:LEU:N	1.83	1.12
1:C:2622:ASP:CG	1:C:2628:PHE:CD2	2.25	1.12
1:C:2710:THR:HB	1:B:2707:LYS:NZ	0.79	1.12
1:B:2573:PHE:CZ	1:B:2577:VAL:HG21	1.83	1.12
1:D:771:GLU:O	1:D:773:LEU:N	1.83	1.12
1:D:2210:PHE:CE2	1:D:2647:LEU:CD2	2.32	1.12
1:A:2239:LYS:HG2	1:A:2240:ILE:HG13	1.18	1.12
1:C:89:LEU:C	1:C:92:LEU:HD22	1.74	1.12
1:C:2576:MET:HA	1:C:2576:MET:HE3	1.32	1.12
1:B:2285:VAL:HG21	1:B:2417:LEU:HD13	1.14	1.12
1:D:2271:ARG:NH1	1:D:2272:ASN:CG	2.07	1.12
1:D:2622:ASP:OD2	1:D:2628:PHE:CZ	2.03	1.12
1:C:449:ALA:C	1:C:453:LEU:HG	1.75	1.11
1:C:2210:PHE:CE2	1:C:2647:LEU:CD2	2.32	1.11
1:B:457:ALA:CB	1:B:521:LYS:HG3	1.80	1.11
1:B:2271:ARG:NH1	1:B:2272:ASN:CG	2.07	1.11
1:B:2713:SER:O	1:B:2716:LEU:HG	1.46	1.11
1:A:2623:ASN:CG	1:D:2677:ARG:HH21	1.56	1.11
1:C:457:ALA:CB	1:C:521:LYS:HG3	1.80	1.11
1:C:2583:ASN:CB	1:D:2586:PHE:CE1	2.31	1.11
1:B:2239:LYS:HG2	1:B:2240:ILE:H	1.04	1.11
1:B:2560:GLU:CG	1:B:2563:PHE:CE2	2.28	1.11
1:D:449:ALA:C	1:D:453:LEU:HG	1.75	1.11
1:C:2348:VAL:CG1	1:C:2353:THR:OG1	1.98	1.11
1:B:510:MET:O	1:B:515:ILE:CB	1.99	1.11
1:B:2384:ARG:O	1:B:2388:LEU:CD2	1.97	1.11
1:A:510:MET:O	1:A:515:ILE:CB	1.99	1.11
1:A:2622:ASP:CG	1:A:2628:PHE:CZ	2.28	1.11
1:C:564:GLN:CB	1:C:574:ILE:HD12	1.79	1.11
1:C:2384:ARG:O	1:C:2388:LEU:CD2	1.97	1.11
1:C:2649:LYS:O	1:C:2650:VAL:CB	1.96	1.11
1:C:2713:SER:HB2	1:B:2715:GLN:NE2	1.65	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2210:PHE:CE2	1:B:2647:LEU:CD2	2.32	1.11
1:D:270:GLN:O	1:D:271:SER:C	1.91	1.11
1:C:2626:VAL:HG12	1:C:2627:THR:N	1.15	1.11
1:B:2348:VAL:CG1	1:B:2353:THR:OG1	1.99	1.11
1:B:2654:THR:O	1:B:2657:THR:HG22	1.33	1.11
1:D:564:GLN:CB	1:D:574:ILE:HD12	1.79	1.11
1:D:2216:CYS:SG	1:D:2646:VAL:CG2	2.39	1.11
1:D:2239:LYS:HG2	1:D:2240:ILE:H	1.04	1.11
1:D:2239:LYS:HG2	1:D:2240:ILE:HG13	1.18	1.11
1:A:2702:LEU:HD12	1:D:2700:GLU:HG2	1.29	1.10
1:C:2062:GLY:O	1:C:2064:ASP:N	1.83	1.10
1:C:2216:CYS:SG	1:C:2646:VAL:CG2	2.39	1.10
1:C:2713:SER:CB	1:B:2715:GLN:NE2	2.14	1.10
1:B:270:GLN:N	2:B:2801:JYP:N2	1.67	1.10
1:B:564:GLN:CB	1:B:574:ILE:HD12	1.79	1.10
1:B:885:LEU:O	1:B:889:LYS:N	1.84	1.10
1:D:564:GLN:HB3	1:D:574:ILE:HD12	1.31	1.10
1:D:2348:VAL:CG1	1:D:2353:THR:OG1	1.99	1.10
1:D:2622:ASP:CG	1:D:2628:PHE:CZ	2.28	1.10
1:A:2702:LEU:HD12	1:D:2700:GLU:CG	1.33	1.10
1:C:510:MET:O	1:C:515:ILE:CB	1.99	1.10
1:C:2622:ASP:CG	1:C:2628:PHE:CZ	2.28	1.10
1:A:2200:ARG:HB2	1:A:2662:TYR:CE2	1.87	1.10
1:A:2271:ARG:NH1	1:A:2272:ASN:CG	2.07	1.10
1:A:2288:ASN:HD21	1:A:2417:LEU:HB2	0.97	1.10
1:A:2560:GLU:CG	1:A:2563:PHE:CE2	2.28	1.10
1:C:768:MET:CA	1:C:776:ASP:CA	2.30	1.10
1:C:2560:GLU:HG3	1:C:2563:PHE:HE2	1.00	1.10
1:B:2216:CYS:SG	1:B:2646:VAL:CG2	2.39	1.10
1:D:89:LEU:C	1:D:92:LEU:HD22	1.74	1.10
1:D:768:MET:CA	1:D:776:ASP:CA	2.30	1.10
1:D:2654:THR:O	1:D:2657:THR:HG23	1.46	1.10
1:A:270:GLN:O	1:A:271:SER:C	1.91	1.10
1:A:2210:PHE:CE2	1:A:2647:LEU:CD2	2.32	1.10
1:A:2216:CYS:SG	1:A:2646:VAL:CG2	2.39	1.10
1:A:2239:LYS:HG2	1:A:2240:ILE:H	1.04	1.10
1:A:2622:ASP:OD2	1:A:2628:PHE:CZ	2.03	1.10
1:B:2622:ASP:OD2	1:B:2628:PHE:CZ	2.03	1.10
1:D:885:LEU:O	1:D:889:LYS:N	1.84	1.10
1:C:2271:ARG:NH1	1:C:2272:ASN:HD21	1.39	1.10
1:B:89:LEU:C	1:B:92:LEU:HD23	1.58	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2200:ARG:HB2	1:B:2662:TYR:CE2	1.87	1.10
1:D:457:ALA:CB	1:D:521:LYS:HG3	1.80	1.10
1:D:2348:VAL:CG2	1:D:2353:THR:CG2	2.30	1.10
1:A:2345:ILE:HD11	1:A:2356:LEU:CD2	1.74	1.09
1:C:885:LEU:O	1:C:889:LYS:N	1.84	1.09
1:B:449:ALA:C	1:B:453:LEU:HG	1.75	1.09
1:B:573:TYR:O	1:B:577:GLN:CG	2.01	1.09
1:B:768:MET:CA	1:B:776:ASP:CA	2.30	1.09
1:D:2560:GLU:HG3	1:D:2563:PHE:HE2	1.01	1.09
1:D:2626:VAL:HG12	1:D:2627:THR:N	1.15	1.09
1:A:457:ALA:CB	1:A:521:LYS:HG3	1.80	1.09
1:A:2285:VAL:HG21	1:A:2417:LEU:HD13	1.14	1.09
1:A:2586:PHE:CE1	1:D:2583:ASN:HB3	1.85	1.09
1:A:2612:PHE:CE1	1:A:2638:MET:SD	2.44	1.09
1:C:2345:ILE:HD13	1:C:2356:LEU:CD2	1.73	1.09
1:C:2622:ASP:OD2	1:C:2628:PHE:CZ	2.03	1.09
1:B:771:GLU:O	1:B:773:LEU:N	1.83	1.09
1:B:2062:GLY:O	1:B:2064:ASP:N	1.83	1.09
1:B:2348:VAL:CG2	1:B:2353:THR:CG2	2.30	1.09
1:D:2210:PHE:CD2	1:D:2647:LEU:HD23	1.87	1.09
1:A:449:ALA:C	1:A:453:LEU:HG	1.75	1.09
1:A:2236:GLN:HB3	1:B:2619:ASP:OD1	1.53	1.09
1:A:2348:VAL:CG2	1:A:2353:THR:CG2	2.30	1.09
1:A:2370:MET:HA	1:A:2370:MET:HE3	1.29	1.09
1:B:2654:THR:O	1:B:2657:THR:HG23	1.46	1.09
1:D:299:TRP:CH2	1:D:380:SER:HB3	1.88	1.09
1:D:573:TYR:O	1:D:577:GLN:CG	2.01	1.09
1:A:2348:VAL:CG1	1:A:2353:THR:OG1	1.99	1.09
1:C:2348:VAL:CG2	1:C:2353:THR:CG2	2.30	1.09
1:C:2583:ASN:ND2	1:D:2586:PHE:HA	1.68	1.09
1:C:2677:ARG:HH21	1:D:2623:ASN:CG	1.59	1.09
1:B:514:ASN:ND2	1:B:517:LYS:HD2	1.21	1.09
1:B:2612:PHE:CE1	1:B:2638:MET:SD	2.44	1.09
1:D:2213:PRO:HG3	1:D:2647:LEU:HD12	1.35	1.09
1:D:2612:PHE:CE1	1:D:2638:MET:SD	2.44	1.09
1:A:299:TRP:CH2	1:A:380:SER:HB3	1.88	1.09
1:A:768:MET:CA	1:A:776:ASP:CA	2.30	1.09
1:A:885:LEU:O	1:A:889:LYS:N	1.84	1.09
1:A:1619:VAL:O	1:A:1622:GLU:N	1.86	1.09
1:A:2062:GLY:O	1:A:2064:ASP:N	1.83	1.09
1:C:89:LEU:C	1:C:92:LEU:HD23	1.58	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1619:VAL:O	1:C:1622:GLU:N	1.86	1.09
1:C:2200:ARG:HB2	1:C:2662:TYR:CE2	1.87	1.09
1:C:2210:PHE:CD2	1:C:2647:LEU:HD23	1.87	1.09
1:B:2210:PHE:CD2	1:B:2647:LEU:HD23	1.87	1.09
1:D:510:MET:O	1:D:515:ILE:CB	1.99	1.09
1:D:2200:ARG:HB2	1:D:2662:TYR:CE2	1.87	1.09
1:C:2433:SER:HB3	1:C:2593:PHE:CZ	1.70	1.08
1:B:299:TRP:CH2	1:B:380:SER:HB3	1.88	1.08
1:D:486:GLY:HA2	1:D:510:MET:SD	1.93	1.08
1:A:2210:PHE:CD2	1:A:2647:LEU:HD23	1.87	1.08
1:A:2584:LEU:CD1	1:B:2434:VAL:HG21	1.82	1.08
1:A:2716:LEU:HD23	1:A:2716:LEU:H	1.19	1.08
1:C:2348:VAL:HG11	1:C:2353:THR:OG1	1.53	1.08
1:C:2612:PHE:CE1	1:C:2638:MET:SD	2.44	1.08
1:B:89:LEU:C	1:B:92:LEU:HD22	1.74	1.08
1:B:2348:VAL:HG11	1:B:2353:THR:OG1	1.53	1.08
1:D:2062:GLY:O	1:D:2064:ASP:N	1.83	1.08
1:A:89:LEU:C	1:A:92:LEU:HD22	1.74	1.08
1:A:2271:ARG:NH1	1:A:2272:ASN:HD21	1.39	1.08
1:A:2654:THR:O	1:A:2657:THR:HG23	1.46	1.08
1:C:2213:PRO:HG2	1:C:2647:LEU:HA	1.14	1.08
1:B:2345:ILE:HD13	1:B:2356:LEU:CD2	1.73	1.08
1:B:2348:VAL:HG11	1:B:2353:THR:CB	1.84	1.08
1:D:2576:MET:HA	1:D:2576:MET:HE3	1.32	1.08
1:D:2649:LYS:O	1:D:2650:VAL:CB	1.96	1.08
1:A:275:ALA:HB2	2:A:2801:JYP:N4	1.69	1.08
1:A:486:GLY:HA2	1:A:510:MET:SD	1.93	1.08
1:A:2384:ARG:O	1:A:2388:LEU:HD21	1.53	1.08
1:C:573:TYR:O	1:C:577:GLN:CG	2.01	1.08
1:C:2696:ARG:NH1	1:B:2696:ARG:NH2	1.98	1.08
1:B:442:ASP:OD1	1:B:483:PHE:HE2	1.31	1.08
1:B:2348:VAL:HG21	1:B:2353:THR:HG21	1.11	1.08
1:D:1619:VAL:O	1:D:1622:GLU:N	1.86	1.08
1:D:2560:GLU:HG3	1:D:2563:PHE:CE2	1.75	1.08
1:D:2622:ASP:HB3	1:D:2628:PHE:CD2	1.89	1.08
1:A:2178:GLY:HA2	1:A:2186:LEU:CD2	1.84	1.08
1:A:2213:PRO:HG2	1:A:2647:LEU:HA	1.14	1.08
1:A:2348:VAL:HG11	1:A:2353:THR:OG1	1.53	1.08
1:A:2434:VAL:HG21	1:D:2584:LEU:HD11	1.13	1.08
1:A:2586:PHE:CE1	1:D:2583:ASN:CB	2.37	1.08
1:C:299:TRP:CH2	1:C:380:SER:HB3	1.88	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2584:LEU:HD11	1:D:2434:VAL:HG21	1.12	1.08
1:B:1619:VAL:O	1:B:1622:GLU:N	1.86	1.08
1:B:2178:GLY:HA2	1:B:2186:LEU:CD2	1.84	1.08
1:B:2271:ARG:NH1	1:B:2272:ASN:HD21	1.39	1.08
1:D:2243:PHE:CD1	1:D:2642:LEU:HD11	1.89	1.08
1:D:2433:SER:HB3	1:D:2593:PHE:CZ	1.70	1.08
1:C:486:GLY:HA2	1:C:510:MET:SD	1.93	1.07
1:C:2558:LYS:CD	1:C:2560:GLU:OE2	2.02	1.07
1:A:2216:CYS:SG	1:A:2646:VAL:HG21	1.94	1.07
1:A:2558:LYS:CD	1:A:2560:GLU:OE2	2.02	1.07
1:A:2622:ASP:HB3	1:A:2628:PHE:CD2	1.89	1.07
1:A:2696:ARG:NH1	1:D:2696:ARG:NE	2.01	1.07
1:C:2243:PHE:CD1	1:C:2642:LEU:HD11	1.89	1.07
1:C:2677:ARG:HD3	1:D:2623:ASN:OD1	1.49	1.07
1:B:2284:ALA:O	1:B:2287:MET:HB3	1.54	1.07
1:D:2384:ARG:O	1:D:2388:LEU:HD21	1.53	1.07
1:A:573:TYR:O	1:A:577:GLN:CG	2.01	1.07
1:A:2348:VAL:HG11	1:A:2353:THR:CB	1.84	1.07
1:A:2623:ASN:OD1	1:D:2677:ARG:HD3	1.53	1.07
1:B:1456:VAL:O	1:B:1507:PRO:O	1.73	1.07
1:D:2288:ASN:HD21	1:D:2417:LEU:HB2	0.97	1.07
1:A:1456:VAL:O	1:A:1507:PRO:C	1.98	1.07
1:A:2243:PHE:CD1	1:A:2642:LEU:HD11	1.89	1.07
1:B:2216:CYS:SG	1:B:2646:VAL:HG21	1.95	1.07
1:B:2239:LYS:HG2	1:B:2240:ILE:HG13	1.18	1.07
1:D:275:ALA:HB2	2:D:2801:JYP:N4	1.69	1.07
1:A:457:ALA:HB2	1:A:521:LYS:CG	1.85	1.07
1:A:2654:THR:O	1:A:2657:THR:HG22	1.33	1.07
1:C:2384:ARG:O	1:C:2388:LEU:HD21	1.53	1.07
1:C:2716:LEU:HD23	1:C:2716:LEU:H	1.19	1.07
1:B:89:LEU:HA	1:B:92:LEU:CD2	1.65	1.07
1:B:486:GLY:HA2	1:B:510:MET:SD	1.93	1.07
1:B:1456:VAL:O	1:B:1507:PRO:C	1.98	1.07
1:B:2716:LEU:H	1:B:2716:LEU:HD23	1.19	1.07
1:A:2213:PRO:HG3	1:A:2647:LEU:HD12	1.35	1.06
1:A:2348:VAL:HG21	1:A:2353:THR:HG21	1.11	1.06
1:C:2178:GLY:HA2	1:C:2186:LEU:CD2	1.84	1.06
1:D:2558:LYS:CD	1:D:2560:GLU:OE2	2.02	1.06
1:C:2239:LYS:HG2	1:C:2240:ILE:CG1	1.85	1.06
1:C:2284:ALA:O	1:C:2287:MET:HB3	1.54	1.06
1:C:2401:ILE:HG12	1:C:2416:LEU:HD22	1.19	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2654:THR:O	1:C:2657:THR:HG23	1.46	1.06
1:B:2178:GLY:HA2	1:B:2186:LEU:HD21	1.09	1.06
1:B:2213:PRO:HG3	1:B:2647:LEU:HD12	1.35	1.06
1:B:2384:ARG:O	1:B:2388:LEU:HD21	1.53	1.06
1:B:2558:LYS:CD	1:B:2560:GLU:OE2	2.02	1.06
1:D:2178:GLY:HA2	1:D:2186:LEU:CD2	1.84	1.06
1:A:2284:ALA:O	1:A:2287:MET:HB3	1.54	1.06
1:A:2586:PHE:HA	1:D:2583:ASN:ND2	1.71	1.06
1:A:2649:LYS:O	1:A:2650:VAL:CB	1.96	1.06
1:C:90:ASN:HA	1:C:93:HIS:CE1	1.90	1.06
1:C:1456:VAL:O	1:C:1507:PRO:O	1.73	1.06
1:C:2707:LYS:HE2	1:D:2706:MET:O	1.53	1.06
1:B:2239:LYS:HG2	1:B:2240:ILE:CG1	1.85	1.06
1:B:2243:PHE:CD1	1:B:2642:LEU:HD11	1.89	1.06
1:B:2713:SER:C	1:B:2716:LEU:HD21	1.81	1.06
1:D:2284:ALA:O	1:D:2287:MET:HB3	1.54	1.06
1:A:2178:GLY:HA2	1:A:2186:LEU:HD21	1.10	1.06
1:A:2713:SER:C	1:A:2716:LEU:HD21	1.81	1.06
1:C:270:GLN:O	1:C:271:SER:C	1.91	1.06
1:C:2622:ASP:HB3	1:C:2628:PHE:CD2	1.89	1.06
1:B:2622:ASP:HB3	1:B:2628:PHE:CD2	1.89	1.06
1:D:1456:VAL:O	1:D:1507:PRO:C	1.98	1.06
1:D:2178:GLY:HA2	1:D:2186:LEU:HD21	1.10	1.06
1:D:2216:CYS:SG	1:D:2646:VAL:HG21	1.94	1.06
1:D:2683:LEU:O	1:D:2684:VAL:CG2	2.04	1.06
1:A:2239:LYS:HG2	1:A:2240:ILE:CG1	1.85	1.06
1:A:2622:ASP:OD1	1:A:2628:PHE:CD1	2.09	1.06
1:A:2626:VAL:HG12	1:A:2627:THR:N	1.15	1.06
1:C:1456:VAL:O	1:C:1507:PRO:C	1.98	1.06
1:C:2560:GLU:HG3	1:C:2563:PHE:CE2	1.75	1.06
1:D:457:ALA:HB2	1:D:521:LYS:CG	1.85	1.06
1:A:90:ASN:HA	1:A:93:HIS:CE1	1.90	1.05
1:C:127:LYS:O	1:C:441:ARG:HD2	1.56	1.05
1:C:2216:CYS:SG	1:C:2646:VAL:HG21	1.95	1.05
1:C:2273:MET:SD	1:C:2375:ASN:ND2	2.22	1.05
1:B:275:ALA:HB2	2:B:2801:JYP:N4	1.69	1.05
1:D:1317:LYS:C	1:D:1385:CYS:C	2.24	1.05
1:D:2239:LYS:HG2	1:D:2240:ILE:CG1	1.85	1.05
1:A:1317:LYS:C	1:A:1385:CYS:C	2.24	1.05
1:A:2560:GLU:HG3	1:A:2563:PHE:CE2	1.75	1.05
1:A:2576:MET:HE3	1:A:2576:MET:HA	1.32	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2178:GLY:HA2	1:C:2186:LEU:HD21	1.10	1.05
1:C:2348:VAL:HG11	1:C:2353:THR:CB	1.84	1.05
1:A:89:LEU:HA	1:A:92:LEU:HD23	1.06	1.05
1:C:564:GLN:HB3	1:C:574:ILE:HD12	1.31	1.05
1:B:90:ASN:HA	1:B:93:HIS:CE1	1.90	1.05
1:B:520:PHE:CD1	1:B:523:LEU:HD12	1.92	1.05
1:B:1317:LYS:C	1:B:1385:CYS:C	2.24	1.05
1:D:90:ASN:HA	1:D:93:HIS:CE1	1.90	1.05
1:D:520:PHE:CD1	1:D:523:LEU:HD12	1.92	1.05
1:A:2365:LYS:NZ	1:A:2368:PHE:CD2	2.25	1.05
1:A:2683:LEU:O	1:A:2684:VAL:CG2	2.04	1.05
1:C:520:PHE:CD1	1:C:523:LEU:HD12	1.92	1.05
1:C:2189:TYR:O	1:C:2192:HIS:C	2.00	1.05
1:C:2622:ASP:OD1	1:C:2628:PHE:CD1	2.09	1.05
1:C:2654:THR:O	1:C:2657:THR:HG22	1.33	1.05
1:B:127:LYS:O	1:B:441:ARG:HD2	1.56	1.05
1:B:270:GLN:O	1:B:271:SER:C	1.91	1.05
1:B:457:ALA:HB2	1:B:521:LYS:CG	1.85	1.05
1:B:2365:LYS:NZ	1:B:2368:PHE:CD2	2.25	1.05
1:A:520:PHE:CD1	1:A:523:LEU:HD12	1.92	1.05
1:A:2583:ASN:CB	1:B:2586:PHE:CD1	2.37	1.05
1:C:2213:PRO:HG3	1:C:2647:LEU:HD12	1.35	1.05
1:C:2683:LEU:O	1:C:2684:VAL:CG2	2.04	1.05
1:D:507:GLN:HG3	1:D:567:TYR:CE1	1.92	1.05
1:D:2713:SER:C	1:D:2716:LEU:HD21	1.81	1.05
1:A:2403:ALA:O	1:A:2408:VAL:HG23	1.56	1.04
1:C:275:ALA:HB2	2:C:2801:JYP:N4	1.69	1.04
1:C:457:ALA:HB2	1:C:521:LYS:CG	1.85	1.04
1:C:569:LYS:HE3	2:C:2801:JYP:C10	1.87	1.04
1:C:2584:LEU:HD11	1:D:2434:VAL:CG2	1.87	1.04
1:B:2345:ILE:HD11	1:B:2356:LEU:HD21	1.08	1.04
1:B:2683:LEU:O	1:B:2684:VAL:CG2	2.04	1.04
1:D:1456:VAL:O	1:D:1507:PRO:O	1.73	1.04
1:A:2345:ILE:O	1:A:2348:VAL:HG13	0.86	1.04
1:A:2429:ASN:OD1	1:A:2432:LYS:CE	2.05	1.04
1:A:2702:LEU:HD13	1:D:2700:GLU:HG3	1.30	1.04
1:C:1317:LYS:C	1:C:1385:CYS:C	2.24	1.04
1:C:2348:VAL:HG21	1:C:2353:THR:HG21	1.11	1.04
1:C:2699:GLN:HA	1:B:2700:GLU:OE1	1.57	1.04
1:B:2401:ILE:CG1	1:B:2416:LEU:CD2	2.24	1.04
1:B:2412:PHE:O	1:B:2413:TYR:C	1.98	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2189:TYR:O	1:B:2192:HIS:C	2.00	1.04
1:D:646:PRO:C	1:D:648:THR:N	2.10	1.04
1:D:2365:LYS:NZ	1:D:2368:PHE:CD2	2.25	1.04
1:D:2622:ASP:OD1	1:D:2628:PHE:CD1	2.09	1.04
1:A:2345:ILE:HD11	1:A:2356:LEU:HD21	1.08	1.04
1:B:646:PRO:CA	1:B:649:GLN:CA	2.36	1.04
1:D:2345:ILE:O	1:D:2348:VAL:HG13	0.86	1.04
1:B:2345:ILE:O	1:B:2348:VAL:HG13	0.86	1.04
1:B:2732:ARG:HB3	1:B:2732:ARG:HH11	1.21	1.04
1:D:2412:PHE:O	1:D:2413:TYR:C	1.99	1.04
1:A:2189:TYR:O	1:A:2192:HIS:C	2.00	1.03
1:A:2401:ILE:CG1	1:A:2416:LEU:CD2	2.24	1.03
1:C:563:SER:O	1:C:567:TYR:CD2	2.11	1.03
1:C:2713:SER:C	1:C:2716:LEU:HD21	1.81	1.03
1:B:2622:ASP:OD1	1:B:2628:PHE:CD1	2.09	1.03
1:D:89:LEU:HA	1:D:92:LEU:HD23	1.06	1.03
1:D:2219:LEU:HD21	1:D:2254:MET:HE2	1.04	1.03
1:A:2361:ASN:HD21	1:A:2401:ILE:CD1	1.72	1.03
1:A:2583:ASN:HB2	1:B:2586:PHE:CE1	1.93	1.03
1:B:2401:ILE:HG12	1:B:2416:LEU:HD22	1.19	1.03
1:B:2429:ASN:OD1	1:B:2432:LYS:CE	2.06	1.03
1:D:270:GLN:O	1:D:272:ALA:O	1.76	1.03
1:D:569:LYS:HE3	2:D:2801:JYP:C10	1.87	1.03
1:D:2348:VAL:HG21	1:D:2353:THR:HG21	1.11	1.03
1:D:2716:LEU:HD23	1:D:2716:LEU:H	1.19	1.03
1:A:646:PRO:CA	1:A:649:GLN:CA	2.36	1.03
1:A:2583:ASN:ND2	1:B:2586:PHE:CA	2.20	1.03
1:C:2345:ILE:HD11	1:C:2356:LEU:HD21	1.07	1.03
1:C:2365:LYS:NZ	1:C:2368:PHE:CD2	2.25	1.03
1:C:2576:MET:HE1	1:C:2580:ILE:HG13	1.41	1.03
1:C:2583:ASN:HB3	1:D:2586:PHE:CD1	1.93	1.03
1:B:563:SER:O	1:B:567:TYR:CD2	2.11	1.03
1:B:2576:MET:HA	1:B:2576:MET:HE3	1.32	1.03
1:D:2189:TYR:O	1:D:2192:HIS:C	2.00	1.03
1:A:127:LYS:O	1:A:441:ARG:HD2	1.56	1.03
1:A:1456:VAL:O	1:A:1507:PRO:O	1.73	1.03
1:A:2713:SER:O	1:A:2716:LEU:CG	2.07	1.03
1:C:2429:ASN:OD1	1:C:2432:LYS:CE	2.06	1.03
1:B:89:LEU:HA	1:B:92:LEU:HD23	1.06	1.03
1:B:2361:ASN:HD21	1:B:2401:ILE:CD1	1.72	1.03
1:D:563:SER:O	1:D:567:TYR:CD2	2.11	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2361:ASN:HD21	1:D:2401:ILE:CD1	1.72	1.03
1:A:270:GLN:O	1:A:272:ALA:O	1.76	1.03
1:A:569:LYS:HE3	2:A:2801:JYP:C10	1.87	1.03
1:B:569:LYS:HE3	2:B:2801:JYP:C10	1.87	1.03
1:D:646:PRO:CA	1:D:649:GLN:CA	2.36	1.03
1:D:2345:ILE:HD13	1:D:2356:LEU:HD21	1.26	1.03
1:A:300:ASN:CG	1:D:2730:LYS:HG2	1.83	1.02
1:A:563:SER:O	1:A:567:TYR:CD2	2.11	1.02
1:C:646:PRO:CA	1:C:649:GLN:CA	2.36	1.02
1:C:2200:ARG:HB2	1:C:2662:TYR:CZ	1.94	1.02
1:C:2345:ILE:O	1:C:2348:VAL:HG13	0.86	1.02
1:C:2586:PHE:CE1	1:B:2583:ASN:HB2	1.94	1.02
1:D:263:PHE:HE2	1:D:265:ARG:HE	1.03	1.02
1:D:2273:MET:SD	1:D:2375:ASN:ND2	2.22	1.02
1:D:2345:ILE:HD11	1:D:2356:LEU:HD21	1.07	1.02
1:D:2348:VAL:HG11	1:D:2353:THR:CB	1.84	1.02
1:A:108:ARG:HH11	1:A:108:ARG:HG3	1.25	1.02
1:A:507:GLN:HG3	1:A:567:TYR:CE1	1.92	1.02
1:A:2219:LEU:CD2	1:A:2254:MET:HE2	1.89	1.02
1:A:2368:PHE:CZ	1:A:2395:HIS:CE1	2.47	1.02
1:A:2560:GLU:O	1:A:2563:PHE:HB2	1.58	1.02
1:B:108:ARG:HH11	1:B:108:ARG:HG3	1.25	1.02
1:B:2213:PRO:CG	1:B:2647:LEU:CD1	2.37	1.02
1:B:2272:ASN:C	1:B:2276:TRP:HD1	1.67	1.02
1:D:127:LYS:O	1:D:441:ARG:HD2	1.56	1.02
1:D:2200:ARG:HB2	1:D:2662:TYR:CZ	1.94	1.02
1:A:2273:MET:SD	1:A:2375:ASN:ND2	2.22	1.02
1:C:2219:LEU:HD21	1:C:2254:MET:HE2	1.04	1.02
1:D:2560:GLU:O	1:D:2563:PHE:HB2	1.58	1.02
1:A:2200:ARG:HB2	1:A:2662:TYR:CZ	1.94	1.02
1:C:507:GLN:HG3	1:C:567:TYR:CE1	1.92	1.02
1:C:2560:GLU:O	1:C:2563:PHE:HB2	1.58	1.02
1:B:270:GLN:O	1:B:272:ALA:O	1.76	1.02
1:B:2368:PHE:CZ	1:B:2395:HIS:CE1	2.47	1.02
1:B:2560:GLU:HG3	1:B:2563:PHE:CE2	1.75	1.02
1:C:2239:LYS:CG	1:C:2240:ILE:HG13	1.90	1.02
1:C:2586:PHE:CD1	1:B:2583:ASN:HB3	1.94	1.02
1:C:2622:ASP:CB	1:C:2628:PHE:CD2	2.43	1.02
1:C:2696:ARG:NH1	1:B:2696:ARG:NE	2.07	1.02
1:C:2732:ARG:HB3	1:C:2732:ARG:HH11	1.21	1.02
1:D:2239:LYS:CG	1:D:2240:ILE:HG13	1.90	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2285:VAL:C	1:D:2287:MET:H	1.66	1.02
1:D:2429:ASN:OD1	1:D:2432:LYS:CE	2.05	1.02
1:D:2713:SER:O	1:D:2716:LEU:CG	2.07	1.02
1:A:2348:VAL:HB	1:A:2353:THR:CG2	1.87	1.01
1:A:2576:MET:HE1	1:A:2580:ILE:HG13	1.41	1.01
1:A:2732:ARG:HB3	1:A:2732:ARG:HH11	1.21	1.01
1:C:89:LEU:HA	1:C:92:LEU:HD23	1.06	1.01
1:B:507:GLN:HG3	1:B:567:TYR:CE1	1.92	1.01
1:B:552:ILE:O	1:B:556:CYS:SG	2.19	1.01
1:B:2273:MET:SD	1:B:2375:ASN:ND2	2.22	1.01
1:B:2713:SER:O	1:B:2716:LEU:CG	2.07	1.01
1:D:2348:VAL:HG11	1:D:2353:THR:OG1	1.53	1.01
1:A:602:ASN:O	1:A:606:LEU:N	1.93	1.01
1:A:2213:PRO:CG	1:A:2647:LEU:CD1	2.37	1.01
1:A:2219:LEU:HD21	1:A:2254:MET:HE2	1.04	1.01
1:A:2702:LEU:HD13	1:D:2700:GLU:CG	1.85	1.01
1:C:2348:VAL:HB	1:C:2353:THR:HB	1.02	1.01
1:A:2009:CYS:O	1:A:2013:SER:N	1.94	1.01
1:B:2200:ARG:HB2	1:B:2662:TYR:CZ	1.94	1.01
1:B:2219:LEU:CD2	1:B:2254:MET:HE2	1.90	1.01
1:D:552:ILE:O	1:D:556:CYS:SG	2.18	1.01
1:A:263:PHE:HE2	1:A:265:ARG:HE	1.03	1.01
1:A:510:MET:O	1:A:515:ILE:CG2	2.09	1.01
1:A:569:LYS:HE2	2:A:2801:JYP:C12	1.91	1.01
1:C:270:GLN:O	1:C:272:ALA:O	1.76	1.01
1:C:552:ILE:O	1:C:556:CYS:SG	2.18	1.01
1:C:2201:LEU:N	1:C:2662:TYR:OH	1.94	1.01
1:C:2213:PRO:CG	1:C:2647:LEU:CD1	2.37	1.01
1:C:2361:ASN:HD21	1:C:2401:ILE:CD1	1.72	1.01
1:C:2368:PHE:CZ	1:C:2395:HIS:CE1	2.47	1.01
1:C:2713:SER:O	1:C:2716:LEU:CG	2.07	1.01
1:B:2009:CYS:O	1:B:2013:SER:N	1.93	1.01
1:D:2213:PRO:CG	1:D:2647:LEU:CD1	2.37	1.01
1:D:2219:LEU:CD2	1:D:2254:MET:HE2	1.90	1.01
1:D:2348:VAL:HB	1:D:2353:THR:HB	1.02	1.01
1:A:2239:LYS:CG	1:A:2240:ILE:HG13	1.90	1.01
1:A:2622:ASP:CB	1:A:2628:PHE:CD2	2.43	1.01
1:C:2401:ILE:CD1	1:C:2416:LEU:CD2	2.39	1.01
1:D:453:LEU:HA	1:D:521:LYS:NZ	1.76	1.01
1:D:569:LYS:HE2	2:D:2801:JYP:C12	1.91	1.01
1:D:2201:LEU:N	1:D:2662:TYR:OH	1.94	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2368:PHE:CZ	1:D:2395:HIS:CE1	2.47	1.01
1:C:442:ASP:OD1	1:C:483:PHE:HE2	1.31	1.00
1:C:2219:LEU:CD2	1:C:2254:MET:HE2	1.90	1.00
1:C:2388:LEU:HD23	1:C:2388:LEU:H	1.25	1.00
1:B:569:LYS:HE2	2:B:2801:JYP:C12	1.91	1.00
1:B:2239:LYS:CG	1:B:2240:ILE:HG13	1.90	1.00
1:B:2348:VAL:HB	1:B:2353:THR:CG2	1.87	1.00
1:D:442:ASP:OD1	1:D:483:PHE:HE2	1.31	1.00
1:D:457:ALA:HB2	1:D:521:LYS:HG3	1.01	1.00
1:D:602:ASN:O	1:D:606:LEU:N	1.93	1.00
1:D:2361:ASN:HD21	1:D:2401:ILE:HD11	0.84	1.00
1:D:2403:ALA:O	1:D:2408:VAL:HG23	1.56	1.00
1:A:2361:ASN:HD21	1:A:2401:ILE:HD11	0.84	1.00
1:C:510:MET:O	1:C:515:ILE:CG2	2.09	1.00
1:B:2403:ALA:O	1:B:2408:VAL:HG23	1.56	1.00
1:B:2576:MET:HE1	1:B:2580:ILE:HG13	1.41	1.00
1:D:2009:CYS:O	1:D:2013:SER:N	1.94	1.00
1:D:2401:ILE:CG1	1:D:2416:LEU:CD2	2.24	1.00
1:D:2622:ASP:CB	1:D:2628:PHE:CD2	2.43	1.00
1:A:552:ILE:O	1:A:556:CYS:SG	2.18	1.00
1:C:602:ASN:O	1:C:606:LEU:N	1.93	1.00
1:B:2201:LEU:N	1:B:2662:TYR:OH	1.94	1.00
1:B:2348:VAL:HB	1:B:2353:THR:HB	1.03	1.00
1:B:2622:ASP:CB	1:B:2628:PHE:CD2	2.43	1.00
1:D:510:MET:O	1:D:515:ILE:CG2	2.09	1.00
1:C:300:ASN:OD1	1:B:2730:LYS:HA	1.59	1.00
1:C:453:LEU:HA	1:C:521:LYS:NZ	1.76	1.00
1:B:2388:LEU:HD23	1:B:2388:LEU:H	1.26	1.00
1:B:2560:GLU:O	1:B:2563:PHE:HB2	1.58	1.00
1:C:2009:CYS:O	1:C:2013:SER:N	1.93	1.00
1:C:2403:ALA:O	1:C:2408:VAL:HG23	1.56	1.00
1:D:2243:PHE:HE1	1:D:2642:LEU:HD13	1.27	1.00
1:C:300:ASN:OD1	1:B:2730:LYS:CB	2.10	1.00
1:D:2732:ARG:HB3	1:D:2732:ARG:HH11	1.21	1.00
1:A:2201:LEU:N	1:A:2662:TYR:OH	1.94	1.00
1:C:108:ARG:HG3	1:C:108:ARG:HH11	1.24	1.00
1:B:2219:LEU:HD21	1:B:2254:MET:HE2	1.04	1.00
1:A:300:ASN:OD1	1:D:2730:LYS:CA	2.10	0.99
1:A:457:ALA:HB2	1:A:521:LYS:HG3	1.01	0.99
1:A:2243:PHE:HE1	1:A:2642:LEU:HD13	1.27	0.99
1:A:2272:ASN:C	1:A:2276:TRP:HD1	1.66	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2287:MET:O	1:C:2290:LEU:CB	2.10	0.99
1:D:2401:ILE:CD1	1:D:2416:LEU:CD2	2.39	0.99
1:A:453:LEU:HA	1:A:521:LYS:NZ	1.76	0.99
1:C:89:LEU:HA	1:C:92:LEU:CD2	1.65	0.99
1:C:569:LYS:HE2	2:C:2801:JYP:C12	1.91	0.99
1:C:646:PRO:C	1:C:648:THR:N	2.10	0.99
1:B:510:MET:O	1:B:515:ILE:CG2	2.09	0.99
1:B:602:ASN:O	1:B:606:LEU:N	1.93	0.99
1:D:2288:ASN:O	1:D:2291:VAL:HG23	1.62	0.99
1:A:2288:ASN:O	1:A:2291:VAL:HG23	1.62	0.99
1:C:2345:ILE:HD13	1:C:2356:LEU:HD21	1.26	0.99
1:C:2649:LYS:C	1:C:2650:VAL:HG22	1.88	0.99
1:B:453:LEU:HA	1:B:521:LYS:NZ	1.76	0.99
1:D:108:ARG:HH11	1:D:108:ARG:HG3	1.24	0.99
1:D:1961:ALA:O	1:D:1962:VAL:C	2.06	0.99
1:C:2288:ASN:O	1:C:2291:VAL:HG23	1.62	0.99
1:C:2343:ARG:O	1:C:2346:PHE:HD2	1.38	0.99
1:D:2649:LYS:C	1:D:2650:VAL:HG22	1.88	0.99
1:B:2433:SER:HB2	1:B:2593:PHE:CD2	1.97	0.99
1:A:442:ASP:OD1	1:A:483:PHE:HE2	1.31	0.99
1:A:2433:SER:HB2	1:A:2593:PHE:CD2	1.97	0.99
1:C:2345:ILE:C	1:C:2348:VAL:HG13	1.87	0.99
1:A:74:LYS:HA	1:A:74:LYS:NZ	1.78	0.99
1:B:2433:SER:OG	1:B:2593:PHE:HE2	1.45	0.99
1:D:2272:ASN:C	1:D:2276:TRP:HD1	1.66	0.99
1:A:2401:ILE:CD1	1:A:2416:LEU:CD2	2.39	0.98
1:B:263:PHE:HE2	1:B:265:ARG:HE	1.03	0.98
1:C:2713:SER:HB2	1:B:2715:GLN:HE22	1.25	0.98
1:B:2287:MET:O	1:B:2290:LEU:CB	2.11	0.98
1:A:2348:VAL:HG11	1:A:2353:THR:CG2	1.93	0.98
1:C:2576:MET:CE	1:C:2576:MET:HA	1.91	0.98
1:A:2401:ILE:HG12	1:A:2416:LEU:HD22	1.19	0.98
1:A:2649:LYS:NZ	1:A:2649:LYS:HA	1.79	0.98
1:C:2348:VAL:HB	1:C:2353:THR:CG2	1.87	0.98
1:D:74:LYS:HA	1:D:74:LYS:NZ	1.78	0.98
1:A:2348:VAL:HB	1:A:2353:THR:HB	1.02	0.98
1:C:2285:VAL:O	1:C:2287:MET:N	1.96	0.98
1:B:74:LYS:HA	1:B:74:LYS:NZ	1.78	0.98
1:B:457:ALA:HB2	1:B:521:LYS:HG3	1.01	0.98
1:B:2348:VAL:CG1	1:B:2353:THR:HB	1.82	0.98
1:D:2287:MET:O	1:D:2290:LEU:CB	2.10	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:LYS:NZ	2:A:2801:JYP:O18	1.96	0.98
1:A:2696:ARG:NH1	1:D:2696:ARG:NH2	1.91	0.98
1:C:2243:PHE:HZ	1:C:2638:MET:HB3	1.28	0.98
1:C:2412:PHE:O	1:C:2413:TYR:C	1.98	0.98
1:B:72:PHE:CE1	1:B:93:HIS:HB2	1.98	0.98
1:B:2348:VAL:HG11	1:B:2353:THR:CG2	1.93	0.98
1:D:2348:VAL:HG11	1:D:2353:THR:CG2	1.93	0.98
1:D:2433:SER:HB2	1:D:2593:PHE:CD2	1.97	0.98
1:D:2649:LYS:HA	1:D:2649:LYS:NZ	1.79	0.98
1:A:2287:MET:O	1:A:2290:LEU:CB	2.10	0.98
1:A:2362:VAL:CA	1:A:2402:CYS:SG	2.52	0.98
1:C:300:ASN:OD1	1:B:2730:LYS:CA	2.12	0.98
1:C:2586:PHE:HA	1:B:2583:ASN:ND2	1.77	0.98
1:A:2576:MET:CE	1:A:2580:ILE:CG1	2.41	0.98
1:C:2348:VAL:HG11	1:C:2353:THR:CG2	1.93	0.98
1:C:2361:ASN:HD21	1:C:2401:ILE:HD11	0.84	0.98
1:C:2623:ASN:CG	1:B:2677:ARG:HH21	1.71	0.98
1:C:2637:ASN:HD22	1:C:2640:HIS:CD2	1.72	0.98
1:B:2401:ILE:HD13	1:B:2416:LEU:HD22	1.45	0.98
1:D:508:LYS:NZ	2:D:2801:JYP:O18	1.96	0.98
1:D:2345:ILE:C	1:D:2348:VAL:HG13	1.87	0.98
1:A:2345:ILE:C	1:A:2348:VAL:HG13	1.87	0.98
1:C:2433:SER:HB2	1:C:2593:PHE:CD2	1.97	0.98
1:C:2649:LYS:HA	1:C:2649:LYS:NZ	1.79	0.98
1:B:2649:LYS:C	1:B:2650:VAL:HG22	1.88	0.98
1:A:2285:VAL:O	1:A:2287:MET:N	1.96	0.97
1:A:2345:ILE:HD13	1:A:2356:LEU:HD21	1.26	0.97
1:A:2401:ILE:HD13	1:A:2416:LEU:HD22	1.45	0.97
1:A:2586:PHE:CD1	1:D:2583:ASN:HB3	1.99	0.97
1:C:263:PHE:HE2	1:C:265:ARG:HE	1.03	0.97
1:D:2285:VAL:O	1:D:2287:MET:N	1.96	0.97
1:A:2343:ARG:O	1:A:2346:PHE:HD2	1.38	0.97
1:A:2412:PHE:O	1:A:2413:TYR:C	1.99	0.97
1:A:2649:LYS:C	1:A:2650:VAL:HG22	1.88	0.97
1:C:2239:LYS:CG	1:C:2240:ILE:H	1.74	0.97
1:B:2345:ILE:C	1:B:2348:VAL:HG13	1.87	0.97
1:D:72:PHE:CE1	1:D:93:HIS:HB2	1.97	0.97
1:D:2388:LEU:HD23	1:D:2388:LEU:H	1.25	0.97
1:A:72:PHE:CE1	1:A:93:HIS:HB2	1.98	0.97
1:A:2434:VAL:CG2	1:D:2584:LEU:HD11	1.95	0.97
1:C:508:LYS:NZ	2:C:2801:JYP:O18	1.96	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2558:LYS:HD2	1:C:2560:GLU:CG	1.95	0.97
1:C:2576:MET:CE	1:C:2580:ILE:CG1	2.42	0.97
1:C:2586:PHE:HA	1:B:2583:ASN:HD21	1.29	0.97
1:B:2361:ASN:HD21	1:B:2401:ILE:HD11	0.84	0.97
1:D:2210:PHE:CD2	1:D:2647:LEU:CD2	2.47	0.97
1:D:2239:LYS:CG	1:D:2240:ILE:H	1.74	0.97
1:D:2576:MET:HE1	1:D:2580:ILE:HG13	1.41	0.97
1:C:74:LYS:HA	1:C:74:LYS:NZ	1.78	0.97
1:C:457:ALA:HB2	1:C:521:LYS:HG3	1.01	0.97
1:B:2576:MET:CE	1:B:2576:MET:HA	1.91	0.97
1:D:2576:MET:CE	1:D:2580:ILE:CG1	2.41	0.97
1:A:2285:VAL:C	1:A:2287:MET:H	1.66	0.97
1:C:72:PHE:CE1	1:C:93:HIS:HB2	1.97	0.97
1:C:2285:VAL:C	1:C:2287:MET:N	2.17	0.97
1:C:2433:SER:HB3	1:C:2593:PHE:CE1	2.00	0.97
1:C:2583:ASN:OD1	1:D:2589:ILE:CG2	2.12	0.97
1:B:2362:VAL:CA	1:B:2402:CYS:SG	2.52	0.97
1:D:2452:VAL:HG23	1:D:2573:PHE:HE1	1.24	0.97
1:D:2558:LYS:HD2	1:D:2560:GLU:CG	1.95	0.97
1:B:92:LEU:HD22	1:B:92:LEU:H	1.29	0.97
1:D:2362:VAL:CA	1:D:2402:CYS:SG	2.52	0.97
1:A:2239:LYS:CG	1:A:2240:ILE:H	1.74	0.97
1:C:2348:VAL:CG1	1:C:2353:THR:HB	1.82	0.97
1:B:2576:MET:CE	1:B:2580:ILE:CG1	2.41	0.97
1:D:2343:ARG:C	1:D:2346:PHE:HD2	1.73	0.97
1:A:520:PHE:CE1	1:A:523:LEU:HD12	2.00	0.97
1:A:2579:ILE:O	1:A:2580:ILE:C	1.96	0.97
1:C:2210:PHE:HD2	1:C:2647:LEU:HD23	1.29	0.97
1:A:2715:GLN:HE21	1:B:2713:SER:CB	1.72	0.97
1:B:508:LYS:NZ	2:B:2801:JYP:O18	1.96	0.97
1:B:520:PHE:CE1	1:B:523:LEU:HD12	2.00	0.97
1:B:2210:PHE:HD2	1:B:2647:LEU:HD23	1.29	0.97
1:B:2288:ASN:O	1:B:2291:VAL:HG23	1.62	0.97
1:D:89:LEU:HA	1:D:92:LEU:CD2	1.65	0.96
1:D:2433:SER:HB3	1:D:2593:PHE:CE1	2.00	0.96
1:A:92:LEU:HD22	1:A:92:LEU:H	1.29	0.96
1:A:2213:PRO:HG3	1:A:2647:LEU:HA	1.46	0.96
1:C:2243:PHE:HE1	1:C:2642:LEU:HD13	1.27	0.96
1:C:2343:ARG:C	1:C:2346:PHE:HD2	1.73	0.96
1:B:2210:PHE:HE2	1:B:2647:LEU:HD21	1.30	0.96
1:B:2401:ILE:CD1	1:B:2416:LEU:CD2	2.39	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2433:SER:OG	1:A:2593:PHE:HE2	1.45	0.96
1:C:2210:PHE:CD2	1:C:2647:LEU:CD2	2.47	0.96
1:C:2348:VAL:CG1	1:C:2353:THR:CG2	2.43	0.96
1:C:2401:ILE:CG1	1:C:2416:LEU:CD2	2.24	0.96
1:C:2401:ILE:HD13	1:C:2416:LEU:HD22	1.44	0.96
1:B:2285:VAL:O	1:B:2287:MET:N	1.96	0.96
1:B:2649:LYS:HA	1:B:2649:LYS:NZ	1.79	0.96
1:C:2271:ARG:HH11	1:C:2272:ASN:ND2	1.52	0.96
1:B:2343:ARG:O	1:B:2346:PHE:HD2	1.38	0.96
1:B:2558:LYS:HD2	1:B:2560:GLU:CG	1.95	0.96
1:D:520:PHE:CE1	1:D:523:LEU:HD12	2.00	0.96
1:D:2271:ARG:HH11	1:D:2272:ASN:ND2	1.52	0.96
1:A:2021:LEU:O	1:A:2024:TYR:N	1.99	0.96
1:C:2362:VAL:CA	1:C:2402:CYS:SG	2.52	0.96
1:B:2433:SER:HB3	1:B:2593:PHE:CE1	2.00	0.96
1:D:2348:VAL:CB	1:D:2353:THR:HG21	1.91	0.96
1:A:2388:LEU:HD23	1:A:2388:LEU:H	1.25	0.96
1:D:89:LEU:O	1:D:92:LEU:CD2	2.14	0.96
1:A:89:LEU:O	1:A:92:LEU:CD2	2.14	0.96
1:A:2343:ARG:C	1:A:2346:PHE:HD2	1.73	0.96
1:A:2362:VAL:HA	1:A:2402:CYS:HG	1.30	0.96
1:C:520:PHE:CE1	1:C:523:LEU:HD12	2.00	0.96
1:C:2272:ASN:O	1:C:2276:TRP:CD1	2.19	0.96
1:B:2021:LEU:O	1:B:2024:TYR:N	1.99	0.96
1:D:2401:ILE:HD13	1:D:2416:LEU:HD22	1.44	0.96
1:A:69:GLN:N	1:A:100:LYS:HZ1	1.47	0.96
1:A:300:ASN:OD1	1:D:2730:LYS:HA	1.66	0.96
1:C:2621:PHE:O	1:C:2624:LYS:HG3	1.66	0.96
1:B:2210:PHE:CD2	1:B:2647:LEU:CD2	2.47	0.96
1:B:2559:GLU:OE2	1:B:2562:LEU:HG	1.66	0.96
1:D:2621:PHE:O	1:D:2624:LYS:HG3	1.66	0.96
1:A:2621:PHE:O	1:A:2624:LYS:HG3	1.66	0.96
1:B:2626:VAL:HG12	1:B:2627:THR:N	1.15	0.96
1:D:2219:LEU:HD21	1:D:2254:MET:CE	1.96	0.96
1:B:89:LEU:O	1:B:92:LEU:HD23	1.66	0.95
1:C:1313:GLN:O	1:C:1317:LYS:N	1.99	0.95
1:C:2285:VAL:HG21	1:C:2417:LEU:CD1	1.97	0.95
1:A:2288:ASN:O	1:A:2291:VAL:CG2	2.14	0.95
1:A:2345:ILE:HG23	1:A:2353:THR:HG1	1.25	0.95
1:B:2239:LYS:CG	1:B:2240:ILE:H	1.74	0.95
1:D:1313:GLN:O	1:D:1317:LYS:N	1.99	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2272:ASN:O	1:A:2276:TRP:CD1	2.19	0.95
1:A:2559:GLU:OE2	1:A:2562:LEU:HG	1.66	0.95
1:C:2288:ASN:CA	1:C:2413:TYR:HB3	1.96	0.95
1:C:2579:ILE:O	1:C:2580:ILE:C	1.96	0.95
1:C:2288:ASN:O	1:C:2291:VAL:CG2	2.14	0.95
1:B:2243:PHE:HE1	1:B:2642:LEU:HD13	1.27	0.95
1:B:2272:ASN:O	1:B:2276:TRP:CD1	2.19	0.95
1:B:2285:VAL:HG21	1:B:2417:LEU:CD1	1.97	0.95
1:A:2348:VAL:CG1	1:A:2353:THR:HB	1.82	0.95
1:A:2433:SER:HB3	1:A:2593:PHE:CE1	2.00	0.95
1:C:89:LEU:O	1:C:92:LEU:CD2	2.14	0.95
1:C:92:LEU:HD22	1:C:92:LEU:H	1.29	0.95
1:B:2271:ARG:HH11	1:B:2272:ASN:ND2	1.52	0.95
1:D:89:LEU:O	1:D:92:LEU:HD23	1.66	0.95
1:A:2558:LYS:HD2	1:A:2560:GLU:CG	1.95	0.95
1:C:2559:GLU:OE2	1:C:2562:LEU:HG	1.66	0.95
1:B:299:TRP:HH2	1:B:377:GLY:O	1.50	0.95
1:B:1961:ALA:O	1:B:1962:VAL:C	2.06	0.95
1:B:2586:PHE:O	1:B:2589:ILE:N	2.00	0.95
1:D:2213:PRO:HG3	1:D:2647:LEU:HA	1.46	0.95
1:D:2288:ASN:O	1:D:2291:VAL:CG2	2.14	0.95
1:D:2578:ILE:HD11	1:D:2582:LEU:HD12	1.48	0.95
1:A:2573:PHE:CE1	1:A:2577:VAL:CG2	2.50	0.95
1:C:2021:LEU:O	1:C:2023:LEU:N	2.00	0.95
1:C:2343:ARG:C	1:C:2346:PHE:CD2	2.44	0.95
1:C:2433:SER:OG	1:C:2593:PHE:HE2	1.45	0.95
1:B:89:LEU:O	1:B:92:LEU:CD2	2.14	0.95
1:B:1313:GLN:O	1:B:1317:LYS:N	1.99	0.95
1:B:2343:ARG:C	1:B:2346:PHE:HD2	1.73	0.95
1:A:2343:ARG:C	1:A:2346:PHE:CD2	2.44	0.95
1:A:2586:PHE:O	1:A:2589:ILE:N	2.00	0.95
1:C:144:LYS:CB	1:D:1302:HIS:CA	2.45	0.95
1:C:2715:GLN:HE21	1:D:2713:SER:CB	1.80	0.95
1:B:2362:VAL:HA	1:B:2402:CYS:HG	1.27	0.95
1:D:2285:VAL:HG21	1:D:2417:LEU:CD1	1.97	0.95
1:D:2288:ASN:CA	1:D:2413:TYR:HB3	1.96	0.95
1:D:2559:GLU:OE2	1:D:2562:LEU:HG	1.66	0.95
1:B:2288:ASN:CA	1:B:2413:TYR:HB3	1.96	0.94
1:D:1245:CYS:C	1:D:1247:GLY:H	1.75	0.94
1:D:2559:GLU:HG2	1:D:2562:LEU:HD23	1.49	0.94
1:A:1313:GLN:O	1:A:1317:LYS:N	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2702:LEU:CD1	1:D:2700:GLU:HG3	1.81	0.94
1:C:2586:PHE:O	1:C:2589:ILE:N	2.00	0.94
1:D:92:LEU:HD22	1:D:92:LEU:H	1.29	0.94
1:B:2452:VAL:HG23	1:B:2573:PHE:HE1	1.24	0.94
1:D:2573:PHE:CE1	1:D:2577:VAL:CG2	2.50	0.94
1:A:2273:MET:HA	1:A:2276:TRP:CD1	2.02	0.94
1:A:2288:ASN:CA	1:A:2413:TYR:HB3	1.96	0.94
1:A:2700:GLU:HG2	1:B:2702:LEU:HD12	0.95	0.94
1:A:2271:ARG:HH11	1:A:2272:ASN:ND2	1.52	0.94
1:B:2637:ASN:HD22	1:B:2640:HIS:CD2	1.72	0.94
1:A:571:GLN:CG	1:A:574:ILE:HD11	1.98	0.94
1:A:1245:CYS:C	1:A:1247:GLY:H	1.75	0.94
1:A:2713:SER:HB2	1:D:2715:GLN:HE22	1.09	0.94
1:C:1961:ALA:O	1:C:1962:VAL:C	2.06	0.94
1:C:2219:LEU:HD21	1:C:2254:MET:CE	1.96	0.94
1:C:2272:ASN:C	1:C:2276:TRP:HD1	1.66	0.94
1:B:1245:CYS:C	1:B:1247:GLY:H	1.74	0.94
1:B:2243:PHE:CE1	1:B:2642:LEU:HD13	1.99	0.94
1:C:89:LEU:O	1:C:92:LEU:HD23	1.66	0.94
1:B:2288:ASN:O	1:B:2291:VAL:CG2	2.14	0.94
1:D:2021:LEU:O	1:D:2024:TYR:N	1.99	0.94
1:C:69:GLN:N	1:C:100:LYS:HZ3	1.52	0.94
1:C:508:LYS:HE3	1:C:511:ARG:HH11	1.33	0.94
1:C:2213:PRO:HG3	1:C:2647:LEU:CB	1.91	0.94
1:C:2559:GLU:HG2	1:C:2562:LEU:HD23	1.49	0.94
1:B:514:ASN:C	1:B:516:LEU:N	2.23	0.94
1:B:2273:MET:HA	1:B:2276:TRP:CD1	2.02	0.94
1:B:2343:ARG:C	1:B:2346:PHE:CD2	2.44	0.94
1:B:2349:GLY:O	1:B:2352:PRO:HD2	1.64	0.94
1:B:2578:ILE:HD11	1:B:2582:LEU:HD12	1.48	0.94
1:D:2213:PRO:HG3	1:D:2647:LEU:CG	1.98	0.94
1:D:2243:PHE:HZ	1:D:2638:MET:HB3	1.28	0.94
1:D:2349:GLY:O	1:D:2352:PRO:HD2	1.64	0.94
1:D:2637:ASN:HD22	1:D:2640:HIS:CD2	1.72	0.94
1:A:2216:CYS:SG	1:A:2646:VAL:CG1	2.56	0.94
1:A:2700:GLU:OE1	1:B:2699:GLN:CA	2.15	0.94
1:B:508:LYS:HE3	1:B:511:ARG:HH11	1.33	0.94
1:D:2348:VAL:HB	1:D:2353:THR:CG2	1.87	0.94
1:A:299:TRP:HH2	1:A:377:GLY:O	1.50	0.94
1:A:2213:PRO:HG3	1:A:2647:LEU:CB	1.91	0.94
1:C:2239:LYS:NZ	1:C:2677:ARG:HD2	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2021:LEU:O	1:B:2023:LEU:N	2.00	0.94
1:B:2573:PHE:CE1	1:B:2577:VAL:CG2	2.50	0.94
1:B:2621:PHE:O	1:B:2624:LYS:HG3	1.66	0.94
1:D:2273:MET:HA	1:D:2276:TRP:CD1	2.02	0.94
1:A:2213:PRO:HG3	1:A:2647:LEU:CG	1.98	0.93
1:A:2547:GLY:HA2	1:B:2546:GLY:H	1.31	0.93
1:C:2021:LEU:O	1:C:2024:TYR:N	1.99	0.93
1:B:2216:CYS:SG	1:B:2646:VAL:CG1	2.56	0.93
1:B:2243:PHE:HZ	1:B:2638:MET:HB3	1.28	0.93
1:D:69:GLN:N	1:D:100:LYS:HZ3	1.48	0.93
1:D:299:TRP:HH2	1:D:377:GLY:O	1.50	0.93
1:D:520:PHE:CE1	1:D:523:LEU:CD1	2.51	0.93
1:A:2348:VAL:CB	1:A:2353:THR:HG21	1.91	0.93
1:C:2273:MET:HA	1:C:2276:TRP:CD1	2.02	0.93
1:B:2213:PRO:HG3	1:B:2647:LEU:HA	1.46	0.93
1:B:2239:LYS:NZ	1:B:2677:ARG:HD2	1.83	0.93
1:D:237:GLY:CA	1:D:283:GLU:OE2	2.17	0.93
1:D:2272:ASN:O	1:D:2276:TRP:CD1	2.19	0.93
1:A:2285:VAL:HG21	1:A:2417:LEU:CD1	1.97	0.93
1:B:520:PHE:CE1	1:B:523:LEU:CD1	2.51	0.93
1:B:2219:LEU:HD21	1:B:2254:MET:CE	1.96	0.93
1:D:1455:LEU:O	1:D:1507:PRO:CA	2.17	0.93
1:D:2216:CYS:SG	1:D:2646:VAL:CG1	2.56	0.93
1:D:2285:VAL:C	1:D:2287:MET:N	2.17	0.93
1:A:520:PHE:CE1	1:A:523:LEU:CD1	2.51	0.93
1:A:1455:LEU:O	1:A:1507:PRO:CA	2.17	0.93
1:A:2219:LEU:HD21	1:A:2254:MET:CE	1.96	0.93
1:A:2243:PHE:HZ	1:A:2638:MET:HB3	1.27	0.93
1:C:237:GLY:CA	1:C:283:GLU:OE2	2.17	0.93
1:C:2710:THR:HB	1:B:2707:LYS:HZ2	1.24	0.93
1:B:69:GLN:N	1:B:100:LYS:HZ3	1.49	0.93
1:B:2285:VAL:C	1:B:2287:MET:N	2.17	0.93
1:B:2579:ILE:O	1:B:2580:ILE:C	1.96	0.93
1:D:2362:VAL:HA	1:D:2402:CYS:HG	1.30	0.93
1:A:1961:ALA:O	1:A:1962:VAL:C	2.06	0.93
1:A:2021:LEU:O	1:A:2023:LEU:N	2.00	0.93
1:C:299:TRP:HH2	1:C:377:GLY:O	1.50	0.93
1:C:520:PHE:CE1	1:C:523:LEU:CD1	2.51	0.93
1:B:1455:LEU:O	1:B:1507:PRO:CA	2.17	0.93
1:A:2452:VAL:HG23	1:A:2573:PHE:HE1	1.24	0.93
1:C:1455:LEU:O	1:C:1507:PRO:CA	2.17	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2401:ILE:HG12	1:C:2416:LEU:HD21	1.50	0.93
1:D:2343:ARG:C	1:D:2346:PHE:CD2	2.44	0.93
1:A:2239:LYS:NZ	1:A:2677:ARG:HD2	1.83	0.93
1:C:2578:ILE:HD11	1:C:2582:LEU:HD12	1.48	0.93
1:D:2021:LEU:O	1:D:2023:LEU:N	2.00	0.93
1:C:1245:CYS:C	1:C:1247:GLY:H	1.74	0.93
1:C:2452:VAL:HG23	1:C:2573:PHE:HE1	1.24	0.93
1:C:2573:PHE:CE1	1:C:2577:VAL:CG2	2.50	0.93
1:D:514:ASN:C	1:D:516:LEU:N	2.23	0.93
1:D:571:GLN:CG	1:D:574:ILE:HD11	1.98	0.93
1:D:2401:ILE:HG12	1:D:2416:LEU:HD22	1.19	0.93
1:D:2649:LYS:HA	1:D:2649:LYS:HZ3	1.28	0.93
1:A:237:GLY:CA	1:A:283:GLU:OE2	2.17	0.93
1:A:2210:PHE:CD2	1:A:2647:LEU:CD2	2.47	0.93
1:A:2285:VAL:C	1:A:2287:MET:N	2.17	0.93
1:C:2213:PRO:HG3	1:C:2647:LEU:CG	1.98	0.93
1:B:571:GLN:CG	1:B:574:ILE:HD11	1.98	0.93
1:A:2583:ASN:HD21	1:B:2586:PHE:HA	1.03	0.92
1:C:2216:CYS:SG	1:C:2646:VAL:CG1	2.56	0.92
1:C:2348:VAL:CG1	1:C:2353:THR:HG21	1.99	0.92
1:A:2578:ILE:HD11	1:A:2582:LEU:HD12	1.48	0.92
1:A:2583:ASN:OD1	1:B:2589:ILE:CG2	2.16	0.92
1:C:2348:VAL:HG11	1:C:2353:THR:HG21	1.51	0.92
1:B:2285:VAL:C	1:B:2287:MET:H	1.66	0.92
1:D:2586:PHE:O	1:D:2589:ILE:N	2.00	0.92
1:B:2345:ILE:HG23	1:B:2353:THR:HG1	1.30	0.92
1:B:2433:SER:OG	1:B:2593:PHE:HZ	1.52	0.92
1:D:2339:SER:HA	1:D:2342:LEU:HD12	1.52	0.92
1:D:2348:VAL:HG11	1:D:2353:THR:HG21	1.51	0.92
1:A:453:LEU:HA	1:A:521:LYS:HZ2	1.33	0.92
1:A:2210:PHE:HE2	1:A:2647:LEU:HD21	1.30	0.92
1:B:237:GLY:CA	1:B:283:GLU:OE2	2.17	0.92
1:B:2213:PRO:HG3	1:B:2647:LEU:CG	1.98	0.92
1:D:2401:ILE:HG12	1:D:2416:LEU:HD21	1.50	0.92
1:A:89:LEU:O	1:A:92:LEU:HD23	1.66	0.92
1:A:2343:ARG:CA	1:A:2346:PHE:HD2	1.83	0.92
1:C:514:ASN:C	1:C:516:LEU:N	2.23	0.92
1:C:571:GLN:CG	1:C:574:ILE:HD11	1.98	0.92
1:A:89:LEU:HA	1:A:92:LEU:CD2	1.65	0.92
1:C:2365:LYS:HE2	1:C:2398:TYR:HB3	1.52	0.92
1:B:2339:SER:HA	1:B:2342:LEU:HD12	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2021:LEU:O	1:C:2022:GLY:C	2.11	0.92
1:C:2236:GLN:HB3	1:D:2619:ASP:OD1	1.70	0.92
1:B:2343:ARG:CA	1:B:2346:PHE:HD2	1.83	0.92
1:D:2239:LYS:NZ	1:D:2677:ARG:HD2	1.83	0.92
1:D:2365:LYS:HE2	1:D:2398:TYR:HB3	1.52	0.92
1:A:646:PRO:C	1:A:648:THR:N	2.10	0.92
1:A:2412:PHE:O	1:A:2415:LEU:N	2.02	0.92
1:B:102:GLN:OE1	1:B:106:GLU:OE2	1.88	0.92
1:B:2021:LEU:O	1:B:2022:GLY:C	2.11	0.92
1:A:2339:SER:HA	1:A:2342:LEU:HD12	1.52	0.92
1:A:2576:MET:CE	1:A:2576:MET:HA	1.91	0.92
1:B:2412:PHE:O	1:B:2415:LEU:N	2.02	0.92
1:D:508:LYS:HE3	1:D:511:ARG:HH11	1.33	0.92
1:D:2210:PHE:HD2	1:D:2647:LEU:HD23	1.29	0.92
1:D:2412:PHE:O	1:D:2415:LEU:N	2.02	0.92
1:A:2365:LYS:HE2	1:A:2398:TYR:HB3	1.52	0.91
1:A:453:LEU:O	1:A:521:LYS:CE	2.18	0.91
1:A:508:LYS:HE3	1:A:511:ARG:HH11	1.33	0.91
1:A:2349:GLY:O	1:A:2352:PRO:HD2	1.64	0.91
1:A:2559:GLU:HG2	1:A:2562:LEU:HD23	1.49	0.91
1:B:453:LEU:O	1:B:521:LYS:CE	2.18	0.91
1:A:2566:ARG:NH2	1:A:2570:ASP:OD2	2.04	0.91
1:D:2343:ARG:CA	1:D:2346:PHE:HD2	1.83	0.91
1:A:102:GLN:OE1	1:A:106:GLU:OE2	1.88	0.91
1:B:2566:ARG:NH2	1:B:2570:ASP:OD2	2.04	0.91
1:D:2576:MET:CE	1:D:2576:MET:HA	1.91	0.91
1:C:2210:PHE:HE2	1:C:2647:LEU:HD21	1.31	0.91
1:C:2343:ARG:CA	1:C:2346:PHE:HD2	1.83	0.91
1:A:567:TYR:HB2	1:A:571:GLN:CD	1.96	0.91
1:C:2339:SER:HA	1:C:2342:LEU:HD12	1.52	0.91
1:C:2412:PHE:O	1:C:2415:LEU:N	2.02	0.91
1:D:2566:ARG:NH2	1:D:2570:ASP:OD2	2.04	0.91
1:A:2348:VAL:CG1	1:A:2353:THR:CG2	2.43	0.91
1:A:2713:SER:CA	1:A:2716:LEU:HD21	2.01	0.91
1:C:2213:PRO:HG3	1:C:2647:LEU:HA	1.46	0.91
1:C:2271:ARG:HH11	1:C:2272:ASN:CG	1.75	0.91
1:C:2362:VAL:HA	1:C:2402:CYS:HG	1.22	0.91
1:C:2566:ARG:NH2	1:C:2570:ASP:OD2	2.04	0.91
1:A:2576:MET:HE2	1:A:2580:ILE:CD1	2.01	0.91
1:C:32:LEU:CB	1:C:445:PHE:CD2	2.54	0.91
1:C:840:VAL:O	1:C:844:LEU:N	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2213:PRO:HG3	1:B:2647:LEU:CB	1.91	0.91
1:B:2348:VAL:HG11	1:B:2353:THR:HG21	1.51	0.91
1:B:2365:LYS:HE2	1:B:2398:TYR:HB3	1.52	0.91
1:D:840:VAL:O	1:D:844:LEU:N	2.04	0.91
1:C:102:GLN:OE1	1:C:106:GLU:OE2	1.88	0.91
1:C:2213:PRO:HG3	1:C:2647:LEU:HD13	1.53	0.91
1:C:2213:PRO:CG	1:C:2647:LEU:HD13	2.01	0.91
1:B:840:VAL:O	1:B:844:LEU:N	2.04	0.91
1:D:2210:PHE:HE2	1:D:2647:LEU:HD21	1.31	0.91
1:A:2348:VAL:HG11	1:A:2353:THR:HG21	1.51	0.91
1:C:2433:SER:OG	1:C:2593:PHE:HZ	1.52	0.91
1:C:2623:ASN:OD1	1:B:2677:ARG:HD3	1.70	0.91
1:B:32:LEU:CB	1:B:445:PHE:CD2	2.54	0.91
1:B:2348:VAL:CG1	1:B:2353:THR:HG21	1.99	0.91
1:D:127:LYS:O	1:D:441:ARG:CD	2.19	0.91
1:D:2189:TYR:O	1:D:2192:HIS:N	2.04	0.91
1:D:2345:ILE:HG23	1:D:2353:THR:HG1	1.36	0.91
1:D:2576:MET:HE2	1:D:2580:ILE:CD1	2.01	0.91
1:A:127:LYS:O	1:A:441:ARG:CD	2.19	0.90
1:A:2348:VAL:CG1	1:A:2353:THR:HG21	1.99	0.90
1:B:2401:ILE:HG12	1:B:2416:LEU:HD21	1.50	0.90
1:B:525:ALA:HB3	1:B:526:PRO:HD2	1.54	0.90
1:D:2348:VAL:CG1	1:D:2353:THR:HG21	1.99	0.90
1:D:2713:SER:CA	1:D:2716:LEU:HD21	2.01	0.90
1:A:840:VAL:O	1:A:844:LEU:N	2.03	0.90
1:C:2285:VAL:C	1:C:2287:MET:H	1.66	0.90
1:C:2576:MET:HE2	1:C:2580:ILE:CD1	2.01	0.90
1:C:2583:ASN:HD21	1:D:2586:PHE:HA	1.28	0.90
1:B:127:LYS:O	1:B:441:ARG:CD	2.19	0.90
1:B:554:ARG:HG2	1:B:554:ARG:HH11	1.37	0.90
1:A:2401:ILE:HG12	1:A:2416:LEU:HD21	1.50	0.90
1:B:2213:PRO:CG	1:B:2647:LEU:HD13	2.01	0.90
1:A:2619:ASP:OD1	1:D:2236:GLN:HB3	1.71	0.90
1:C:453:LEU:O	1:C:521:LYS:CE	2.18	0.90
1:C:2178:GLY:C	1:C:2186:LEU:HD21	1.97	0.90
1:C:2189:TYR:O	1:C:2192:HIS:N	2.04	0.90
1:C:2243:PHE:CE1	1:C:2642:LEU:HD13	1.99	0.90
1:C:2273:MET:N	1:C:2276:TRP:HD1	1.70	0.90
1:D:2243:PHE:CZ	1:D:2638:MET:CB	2.55	0.90
1:D:2348:VAL:CG1	1:D:2353:THR:HB	1.82	0.90
1:D:2372:PHE:HD2	1:D:2395:HIS:HD1	1.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2433:SER:OG	1:D:2593:PHE:HE2	1.45	0.90
1:C:127:LYS:O	1:C:441:ARG:CD	2.19	0.90
1:C:554:ARG:HG2	1:C:554:ARG:HH11	1.37	0.90
1:B:2178:GLY:C	1:B:2186:LEU:HD21	1.97	0.90
1:B:2576:MET:HE2	1:B:2580:ILE:CD1	2.01	0.90
1:B:2713:SER:CA	1:B:2716:LEU:HD21	2.01	0.90
1:D:2178:GLY:C	1:D:2186:LEU:HD21	1.97	0.90
1:A:2213:PRO:CG	1:A:2647:LEU:HD13	2.01	0.90
1:A:2637:ASN:HD22	1:A:2640:HIS:CD2	1.73	0.90
1:B:2213:PRO:HG3	1:B:2647:LEU:HD13	1.53	0.90
1:A:2178:GLY:C	1:A:2186:LEU:HD21	1.97	0.90
1:C:2364:ASN:O	1:C:2367:ILE:HG13	1.72	0.90
1:C:2584:LEU:CD1	1:D:2434:VAL:HG21	2.00	0.90
1:D:1317:LYS:C	1:D:1385:CYS:CA	2.45	0.90
1:A:32:LEU:CB	1:A:445:PHE:CD2	2.54	0.90
1:A:514:ASN:C	1:A:516:LEU:N	2.23	0.90
1:A:2210:PHE:HD2	1:A:2647:LEU:HD23	1.29	0.90
1:A:2385:ALA:O	1:A:2389:ASP:OD2	1.90	0.90
1:A:2707:LYS:CE	1:B:2706:MET:O	2.19	0.90
1:B:1317:LYS:C	1:B:1385:CYS:CA	2.45	0.90
1:B:2372:PHE:HD2	1:B:2395:HIS:HD1	1.19	0.90
1:D:102:GLN:OE1	1:D:106:GLU:OE2	1.88	0.90
1:D:453:LEU:O	1:D:521:LYS:CE	2.18	0.90
1:D:1209:GLY:O	1:D:1259:ILE:O	1.90	0.90
1:D:2637:ASN:CB	1:D:2640:HIS:CD2	2.50	0.90
1:A:1317:LYS:C	1:A:1385:CYS:CA	2.45	0.90
1:C:2713:SER:CA	1:C:2716:LEU:HD21	2.01	0.90
1:B:2189:TYR:O	1:B:2192:HIS:N	2.04	0.90
1:B:2364:ASN:O	1:B:2367:ILE:HG13	1.72	0.90
1:B:2559:GLU:HG2	1:B:2562:LEU:HD23	1.49	0.90
1:D:32:LEU:CB	1:D:445:PHE:CD2	2.54	0.90
1:D:2213:PRO:HG3	1:D:2647:LEU:CB	1.91	0.90
1:D:2213:PRO:CG	1:D:2647:LEU:HD13	2.01	0.90
1:A:2243:PHE:CE2	1:A:2638:MET:CB	2.53	0.89
1:C:265:ARG:CZ	1:C:265:ARG:HA	2.03	0.89
1:B:567:TYR:HB2	1:B:571:GLN:CD	1.96	0.89
1:B:1209:GLY:O	1:B:1259:ILE:O	1.90	0.89
1:C:511:ARG:CZ	1:C:570:ASN:OD1	2.21	0.89
1:C:1317:LYS:C	1:C:1385:CYS:CA	2.45	0.89
1:B:571:GLN:HG3	1:B:574:ILE:HD11	1.55	0.89
1:A:2189:TYR:O	1:A:2192:HIS:N	2.04	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2273:MET:N	1:A:2276:TRP:HD1	1.70	0.89
1:C:525:ALA:HB3	1:C:526:PRO:HD2	1.54	0.89
1:C:1209:GLY:O	1:C:1259:ILE:O	1.90	0.89
1:C:1961:ALA:O	1:C:1964:THR:N	2.06	0.89
1:B:265:ARG:HA	1:B:265:ARG:CZ	2.02	0.89
1:B:638:CYS:O	1:B:642:ASN:CA	2.21	0.89
1:D:265:ARG:HA	1:D:265:ARG:CZ	2.02	0.89
1:D:2021:LEU:O	1:D:2022:GLY:C	2.11	0.89
1:A:2021:LEU:O	1:A:2022:GLY:C	2.11	0.89
1:C:300:ASN:CG	1:B:2730:LYS:HG2	1.97	0.89
1:C:2243:PHE:CZ	1:C:2638:MET:CB	2.54	0.89
1:B:69:GLN:CD	1:B:100:LYS:HD2	1.90	0.89
1:D:547:ALA:HB1	1:D:548:PRO:HD3	1.55	0.89
1:A:265:ARG:CZ	1:A:265:ARG:HA	2.03	0.89
1:A:525:ALA:HB3	1:A:526:PRO:HD2	1.54	0.89
1:A:557:TYR:HA	1:A:560:LEU:HD12	1.54	0.89
1:A:2364:ASN:O	1:A:2367:ILE:HG13	1.72	0.89
1:A:2586:PHE:HA	1:D:2583:ASN:HD21	1.33	0.89
1:B:557:TYR:HA	1:B:560:LEU:HD12	1.55	0.89
1:B:1961:ALA:O	1:B:1964:THR:N	2.06	0.89
1:B:2273:MET:N	1:B:2276:TRP:HD1	1.70	0.89
1:B:2348:VAL:CB	1:B:2353:THR:HG21	1.91	0.89
1:A:449:ALA:O	1:A:453:LEU:CD2	2.21	0.89
1:A:1209:GLY:O	1:A:1259:ILE:O	1.90	0.89
1:C:638:CYS:O	1:C:642:ASN:CA	2.21	0.89
1:B:72:PHE:HD1	1:B:93:HIS:HB2	1.37	0.89
1:D:2273:MET:N	1:D:2276:TRP:HD1	1.70	0.89
1:A:69:GLN:CD	1:A:100:LYS:HD2	1.90	0.89
1:A:1961:ALA:O	1:A:1964:THR:N	2.06	0.89
1:B:511:ARG:CZ	1:B:570:ASN:OD1	2.21	0.89
1:A:2433:SER:OG	1:A:2593:PHE:HZ	1.52	0.89
1:C:2385:ALA:O	1:C:2389:ASP:OD2	1.90	0.89
1:D:2213:PRO:HG3	1:D:2647:LEU:HD13	1.53	0.89
1:D:2364:ASN:O	1:D:2367:ILE:HG13	1.72	0.89
1:D:2385:ALA:O	1:D:2389:ASP:OD2	1.90	0.89
1:C:522:LEU:HD21	1:C:553:CYS:SG	2.13	0.89
1:D:74:LYS:HA	1:D:74:LYS:HZ3	1.30	0.89
1:D:449:ALA:O	1:D:453:LEU:CD2	2.21	0.89
1:D:511:ARG:CZ	1:D:570:ASN:OD1	2.21	0.89
1:D:567:TYR:HB2	1:D:571:GLN:CD	1.96	0.89
1:C:557:TYR:HA	1:C:560:LEU:HD12	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:571:GLN:HG3	1:A:574:ILE:HD11	1.54	0.88
1:D:571:GLN:HG3	1:D:574:ILE:HD11	1.55	0.88
1:A:2706:MET:O	1:D:2707:LYS:HE2	1.73	0.88
1:C:567:TYR:HB2	1:C:571:GLN:CD	1.96	0.88
1:C:1209:GLY:C	1:C:1259:ILE:O	2.17	0.88
1:C:2243:PHE:CE2	1:C:2638:MET:CB	2.53	0.88
1:D:2433:SER:O	1:D:2434:VAL:HG22	1.73	0.88
1:A:442:ASP:OD1	1:A:483:PHE:CD2	2.27	0.88
1:B:646:PRO:C	1:B:648:THR:N	2.10	0.88
1:D:1961:ALA:O	1:D:1964:THR:N	2.06	0.88
1:A:102:GLN:O	1:A:106:GLU:HG3	1.74	0.88
1:A:638:CYS:O	1:A:642:ASN:CA	2.21	0.88
1:A:2433:SER:O	1:A:2434:VAL:HG22	1.73	0.88
1:C:69:GLN:CD	1:C:100:LYS:HD2	1.90	0.88
1:C:449:ALA:O	1:C:453:LEU:CD2	2.21	0.88
1:D:557:TYR:HA	1:D:560:LEU:HD12	1.54	0.88
1:D:2239:LYS:HZ2	1:D:2677:ARG:NE	1.71	0.88
1:D:2618:ARG:NH2	1:D:2618:ARG:HB3	1.89	0.88
1:A:1248:ASN:CA	1:A:1252:GLN:N	2.37	0.88
1:B:442:ASP:OD1	1:B:483:PHE:CD2	2.27	0.88
1:B:449:ALA:O	1:B:453:LEU:CD2	2.21	0.88
1:B:2637:ASN:HB3	1:B:2640:HIS:HD2	1.39	0.88
1:D:571:GLN:CB	1:D:574:ILE:HD11	2.04	0.88
1:A:511:ARG:CZ	1:A:570:ASN:OD1	2.21	0.88
1:A:2213:PRO:HG3	1:A:2647:LEU:HD13	1.53	0.88
1:A:2273:MET:HA	1:A:2276:TRP:HD1	1.35	0.88
1:A:2586:PHE:CE1	1:D:2583:ASN:HB2	2.06	0.88
1:B:2273:MET:CA	1:B:2276:TRP:HD1	1.86	0.88
1:B:2618:ARG:NH2	1:B:2618:ARG:HB3	1.89	0.88
1:A:554:ARG:HG2	1:A:554:ARG:HH11	1.37	0.88
1:A:571:GLN:CB	1:A:574:ILE:HD11	2.04	0.88
1:A:1209:GLY:C	1:A:1259:ILE:O	2.17	0.88
1:C:574:ILE:O	1:C:577:GLN:HB2	1.74	0.88
1:C:2622:ASP:OD1	1:C:2628:PHE:CZ	2.26	0.88
1:B:237:GLY:HA3	1:B:283:GLU:OE2	1.74	0.88
1:B:522:LEU:HD21	1:B:553:CYS:SG	2.13	0.88
1:B:2271:ARG:HH11	1:B:2272:ASN:CG	1.75	0.88
1:B:2710:THR:HG23	1:B:2711:ASN:HD22	1.38	0.88
1:A:522:LEU:HD21	1:A:553:CYS:SG	2.13	0.88
1:A:2710:THR:HG23	1:A:2711:ASN:HD22	1.38	0.88
1:C:270:GLN:C	1:C:272:ALA:N	2.30	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1313:GLN:O	1:C:1316:VAL:C	2.17	0.88
1:C:2433:SER:O	1:C:2434:VAL:HG22	1.73	0.88
1:C:2637:ASN:HB3	1:C:2640:HIS:HD2	1.39	0.88
1:B:102:GLN:O	1:B:106:GLU:HG3	1.74	0.88
1:B:1116:LYS:O	1:B:1119:LEU:N	2.07	0.88
1:D:522:LEU:HD21	1:D:553:CYS:SG	2.13	0.88
1:D:1116:LYS:O	1:D:1119:LEU:N	2.07	0.88
1:C:2273:MET:CA	1:C:2276:TRP:HD1	1.86	0.88
1:D:2579:ILE:O	1:D:2580:ILE:C	1.97	0.88
1:A:1313:GLN:O	1:A:1316:VAL:C	2.17	0.88
1:C:102:GLN:O	1:C:106:GLU:HG3	1.74	0.88
1:C:393:LEU:HD21	1:B:2737:GLY:O	1.73	0.88
1:C:547:ALA:HB1	1:C:548:PRO:HD3	1.55	0.88
1:C:2349:GLY:O	1:C:2352:PRO:HD2	1.64	0.88
1:B:1209:GLY:C	1:B:1259:ILE:O	2.17	0.88
1:B:1313:GLN:O	1:B:1316:VAL:C	2.17	0.88
1:D:1209:GLY:HA2	1:D:1259:ILE:O	1.74	0.88
1:A:2618:ARG:HB3	1:A:2618:ARG:NH2	1.89	0.87
1:C:2720:LYS:O	1:C:2720:LYS:NZ	2.07	0.87
1:D:638:CYS:O	1:D:642:ASN:CA	2.21	0.87
1:D:1313:GLN:O	1:D:1316:VAL:C	2.17	0.87
1:A:2273:MET:CA	1:A:2276:TRP:HD1	1.86	0.87
1:A:2622:ASP:OD1	1:A:2628:PHE:CZ	2.26	0.87
1:C:2618:ARG:NH2	1:C:2618:ARG:HB3	1.89	0.87
1:B:2720:LYS:NZ	1:B:2720:LYS:O	2.07	0.87
1:D:270:GLN:C	1:D:272:ALA:N	2.30	0.87
1:A:1116:LYS:O	1:A:1119:LEU:N	2.07	0.87
1:A:2343:ARG:HA	1:A:2346:PHE:HD2	1.38	0.87
1:C:1334:LEU:O	1:C:1338:GLY:N	2.08	0.87
1:B:2372:PHE:HD2	1:B:2395:HIS:ND1	1.73	0.87
1:B:2433:SER:O	1:B:2434:VAL:HG22	1.73	0.87
1:D:102:GLN:O	1:D:106:GLU:HG3	1.74	0.87
1:D:525:ALA:HB3	1:D:526:PRO:HD2	1.54	0.87
1:A:237:GLY:HA3	1:A:283:GLU:OE2	1.74	0.87
1:A:2243:PHE:CZ	1:A:2638:MET:CB	2.54	0.87
1:C:237:GLY:HA3	1:C:283:GLU:OE2	1.73	0.87
1:B:1209:GLY:HA2	1:B:1259:ILE:O	1.74	0.87
1:B:2385:ALA:O	1:B:2389:ASP:OD2	1.90	0.87
1:D:2433:SER:OG	1:D:2593:PHE:HZ	1.52	0.87
1:D:2637:ASN:HB3	1:D:2640:HIS:HD2	1.39	0.87
1:A:2239:LYS:HG2	1:A:2240:ILE:N	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2677:ARG:NH2	1:B:2623:ASN:CG	2.33	0.87
1:B:1248:ASN:CA	1:B:1252:GLN:N	2.37	0.87
1:B:2243:PHE:CZ	1:B:2638:MET:CB	2.54	0.87
1:A:72:PHE:HD1	1:A:93:HIS:HB2	1.37	0.87
1:A:574:ILE:O	1:A:577:GLN:HB2	1.74	0.87
1:A:760:ASP:O	1:A:762:ASP:N	2.07	0.87
1:A:2623:ASN:CG	1:D:2677:ARG:NH2	2.32	0.87
1:A:2720:LYS:O	1:A:2720:LYS:NZ	2.07	0.87
1:C:571:GLN:HG3	1:C:574:ILE:HD11	1.55	0.87
1:C:1116:LYS:O	1:C:1119:LEU:N	2.07	0.87
1:C:2372:PHE:HD2	1:C:2395:HIS:ND1	1.73	0.87
1:A:2637:ASN:HB3	1:A:2640:HIS:HD2	1.39	0.87
1:B:760:ASP:O	1:B:762:ASP:N	2.07	0.87
1:D:2710:THR:HG23	1:D:2711:ASN:HD22	1.38	0.87
1:A:2372:PHE:HD2	1:A:2395:HIS:ND1	1.73	0.87
1:C:2681:MET:HG3	1:C:2682:SER:O	1.75	0.87
1:D:442:ASP:OD1	1:D:483:PHE:CD2	2.27	0.87
1:D:1209:GLY:C	1:D:1259:ILE:O	2.17	0.87
1:D:1248:ASN:CA	1:D:1252:GLN:N	2.37	0.87
1:D:2681:MET:HG3	1:D:2682:SER:O	1.75	0.87
1:C:72:PHE:HD1	1:C:93:HIS:HB2	1.37	0.87
1:C:263:PHE:HE2	1:C:265:ARG:NE	1.73	0.87
1:C:1248:ASN:CA	1:C:1252:GLN:N	2.37	0.87
1:C:2271:ARG:NH1	1:C:2272:ASN:OD1	2.07	0.87
1:C:2578:ILE:CD1	1:C:2582:LEU:HD12	2.05	0.87
1:C:2677:ARG:NH2	1:D:2623:ASN:CG	2.32	0.87
1:D:237:GLY:HA3	1:D:283:GLU:OE2	1.74	0.87
1:A:270:GLN:C	1:A:272:ALA:N	2.30	0.86
1:C:2583:ASN:HB2	1:D:2586:PHE:CE1	2.09	0.86
1:B:2273:MET:HA	1:B:2276:TRP:HD1	1.35	0.86
1:B:2681:MET:HG3	1:B:2682:SER:O	1.75	0.86
1:D:554:ARG:HG2	1:D:554:ARG:HH11	1.36	0.86
1:D:2713:SER:O	1:D:2716:LEU:CD2	2.23	0.86
1:A:2637:ASN:CB	1:A:2640:HIS:CD2	2.50	0.86
1:A:2713:SER:O	1:A:2716:LEU:CD2	2.23	0.86
1:C:442:ASP:OD1	1:C:483:PHE:CD2	2.27	0.86
1:C:1209:GLY:HA2	1:C:1259:ILE:O	1.74	0.86
1:C:2586:PHE:CD1	1:B:2583:ASN:CB	2.55	0.86
1:B:1334:LEU:O	1:B:1338:GLY:N	2.08	0.86
1:B:2271:ARG:NH1	1:B:2272:ASN:OD1	2.07	0.86
1:B:2578:ILE:CD1	1:B:2582:LEU:HD12	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:574:ILE:O	1:D:577:GLN:HB2	1.74	0.86
1:D:760:ASP:O	1:D:762:ASP:N	2.07	0.86
1:D:2273:MET:CA	1:D:2276:TRP:HD1	1.86	0.86
1:A:2271:ARG:NH1	1:A:2272:ASN:OD1	2.07	0.86
1:C:760:ASP:O	1:C:762:ASP:N	2.07	0.86
1:C:2288:ASN:HA	1:C:2413:TYR:HB3	1.56	0.86
1:C:2710:THR:HG23	1:C:2711:ASN:HD22	1.38	0.86
1:B:574:ILE:O	1:B:577:GLN:HB2	1.74	0.86
1:D:1334:LEU:O	1:D:1338:GLY:N	2.08	0.86
1:A:2243:PHE:CE1	1:A:2642:LEU:HD13	1.99	0.86
1:C:2200:ARG:HD2	1:C:2662:TYR:CG	2.11	0.86
1:C:2345:ILE:HD13	1:C:2356:LEU:HD23	1.57	0.86
1:B:2370:MET:HA	1:B:2370:MET:CE	2.05	0.86
1:D:2720:LYS:O	1:D:2720:LYS:NZ	2.07	0.86
1:B:263:PHE:HE2	1:B:265:ARG:NE	1.73	0.86
1:B:571:GLN:CB	1:B:574:ILE:HD11	2.04	0.86
1:D:1209:GLY:CA	1:D:1259:ILE:O	2.24	0.86
1:D:2239:LYS:HG2	1:D:2240:ILE:N	1.90	0.86
1:D:2288:ASN:HA	1:D:2413:TYR:HB3	1.56	0.86
1:D:2372:PHE:HD2	1:D:2395:HIS:ND1	1.73	0.86
1:D:2622:ASP:OD1	1:D:2628:PHE:CZ	2.26	0.86
1:A:2681:MET:HG3	1:A:2682:SER:O	1.75	0.86
1:A:2700:GLU:CD	1:B:2699:GLN:HA	1.99	0.86
1:C:571:GLN:CB	1:C:574:ILE:HD11	2.04	0.86
1:C:1209:GLY:CA	1:C:1259:ILE:O	2.24	0.86
1:D:2273:MET:HA	1:D:2276:TRP:HD1	1.35	0.86
1:D:2343:ARG:HA	1:D:2346:PHE:HD2	1.38	0.86
1:C:2370:MET:HA	1:C:2370:MET:CE	2.05	0.86
1:B:270:GLN:C	1:B:272:ALA:N	2.30	0.86
1:D:2578:ILE:CD1	1:D:2582:LEU:HD12	2.05	0.86
1:C:453:LEU:CA	1:C:521:LYS:NZ	2.38	0.86
1:C:2713:SER:O	1:C:2716:LEU:CD2	2.23	0.86
1:B:2239:LYS:HG2	1:B:2240:ILE:N	1.90	0.86
1:B:2713:SER:O	1:B:2716:LEU:CD2	2.23	0.86
1:D:2200:ARG:HD2	1:D:2662:TYR:CG	2.11	0.86
1:D:2586:PHE:O	1:D:2587:GLY:C	2.17	0.86
1:A:453:LEU:CA	1:A:521:LYS:HZ2	1.89	0.86
1:A:2345:ILE:HD13	1:A:2356:LEU:HD23	1.57	0.86
1:A:2370:MET:HA	1:A:2370:MET:CE	2.05	0.86
1:B:2288:ASN:HB3	1:B:2413:TYR:HB3	1.58	0.86
1:A:1209:GLY:HA2	1:A:1259:ILE:O	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1334:LEU:O	1:A:1338:GLY:N	2.08	0.86
1:A:2200:ARG:HD2	1:A:2662:TYR:CG	2.11	0.86
1:A:2285:VAL:HG13	1:A:2286:LEU:N	1.91	0.86
1:C:2343:ARG:HA	1:C:2346:PHE:HD2	1.38	0.86
1:B:508:LYS:HE3	1:B:511:ARG:NH1	1.91	0.86
1:B:2200:ARG:HD2	1:B:2662:TYR:CG	2.11	0.86
1:A:2348:VAL:HG12	1:A:2353:THR:OG1	1.76	0.85
1:B:299:TRP:CH2	1:B:377:GLY:O	2.29	0.85
1:B:2622:ASP:OD1	1:B:2628:PHE:CZ	2.26	0.85
1:D:263:PHE:HE2	1:D:265:ARG:NE	1.73	0.85
1:D:2271:ARG:NH1	1:D:2272:ASN:OD1	2.07	0.85
1:C:508:LYS:HE3	1:C:511:ARG:NH1	1.91	0.85
1:B:2707:LYS:HD2	1:B:2711:ASN:HD21	1.41	0.85
1:A:2707:LYS:HD2	1:A:2711:ASN:HD21	1.42	0.85
1:D:2285:VAL:HG13	1:D:2286:LEU:N	1.91	0.85
1:D:2370:MET:HA	1:D:2370:MET:CE	2.05	0.85
1:D:2559:GLU:CD	1:D:2562:LEU:CG	2.49	0.85
1:A:2700:GLU:CD	1:B:2702:LEU:CD1	2.17	0.85
1:D:453:LEU:CA	1:D:521:LYS:NZ	2.38	0.85
1:D:2345:ILE:HD13	1:D:2356:LEU:HD23	1.57	0.85
1:A:72:PHE:O	1:A:75:ALA:CB	2.25	0.85
1:A:453:LEU:CA	1:A:521:LYS:NZ	2.38	0.85
1:B:2062:GLY:C	1:B:2064:ASP:H	1.83	0.85
1:D:760:ASP:O	1:D:761:VAL:C	2.18	0.85
1:A:263:PHE:HE2	1:A:265:ARG:NE	1.73	0.85
1:A:2624:LYS:HZ2	1:A:2624:LYS:C	1.85	0.85
1:C:2288:ASN:HB3	1:C:2413:TYR:HB3	1.58	0.85
1:C:2348:VAL:CB	1:C:2353:THR:HG21	1.91	0.85
1:C:2649:LYS:HA	1:C:2649:LYS:HZ2	1.38	0.85
1:B:72:PHE:O	1:B:75:ALA:CB	2.25	0.85
1:B:2216:CYS:SG	1:B:2646:VAL:HG11	2.17	0.85
1:D:2288:ASN:HB2	1:D:2413:TYR:HB3	1.58	0.85
1:D:2715:GLN:NE2	1:D:2715:GLN:HA	1.91	0.85
1:A:508:LYS:HE3	1:A:511:ARG:NH1	1.91	0.85
1:A:1209:GLY:CA	1:A:1259:ILE:O	2.24	0.85
1:A:2288:ASN:HB3	1:A:2413:TYR:HB3	1.58	0.85
1:C:2062:GLY:C	1:C:2064:ASP:H	1.83	0.85
1:B:2345:ILE:HD13	1:B:2356:LEU:HD23	1.57	0.85
1:A:299:TRP:CH2	1:A:377:GLY:O	2.29	0.85
1:A:2288:ASN:HA	1:A:2413:TYR:HB3	1.56	0.85
1:A:2578:ILE:CD1	1:A:2582:LEU:HD12	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:TRP:CH2	1:C:377:GLY:O	2.29	0.85
1:C:2239:LYS:HG2	1:C:2240:ILE:N	1.90	0.85
1:C:2559:GLU:CD	1:C:2562:LEU:CG	2.49	0.85
1:B:2285:VAL:HG13	1:B:2286:LEU:N	1.91	0.85
1:D:2348:VAL:HG12	1:D:2353:THR:OG1	1.76	0.85
1:D:2707:LYS:HD2	1:D:2711:ASN:HD21	1.42	0.85
1:A:2178:GLY:O	1:A:2186:LEU:HD21	1.76	0.85
1:C:2707:LYS:HD2	1:C:2711:ASN:HD21	1.42	0.85
1:B:1209:GLY:CA	1:B:1259:ILE:O	2.24	0.85
1:D:299:TRP:CH2	1:D:377:GLY:O	2.29	0.85
1:D:2178:GLY:O	1:D:2186:LEU:HD21	1.76	0.85
1:A:2191:LYS:O	1:A:2192:HIS:HB2	1.77	0.85
1:A:2372:PHE:HD2	1:A:2395:HIS:HD1	1.19	0.85
1:B:453:LEU:CA	1:B:521:LYS:NZ	2.38	0.85
1:B:2288:ASN:HA	1:B:2413:TYR:HB3	1.56	0.85
1:D:508:LYS:HE3	1:D:511:ARG:NH1	1.91	0.85
1:D:2624:LYS:HZ2	1:D:2624:LYS:C	1.85	0.85
1:A:265:ARG:HA	1:A:265:ARG:NE	1.92	0.84
1:A:2216:CYS:SG	1:A:2646:VAL:HG11	2.17	0.84
1:A:2423:ARG:O	1:A:2423:ARG:NH2	2.10	0.84
1:C:2423:ARG:O	1:C:2423:ARG:NH2	2.10	0.84
1:C:2434:VAL:CG2	1:B:2584:LEU:HD11	2.04	0.84
1:B:2343:ARG:HA	1:B:2346:PHE:HD2	1.38	0.84
1:D:2216:CYS:SG	1:D:2646:VAL:HG11	2.17	0.84
1:D:2423:ARG:O	1:D:2423:ARG:NH2	2.10	0.84
1:C:2288:ASN:HB2	1:C:2413:TYR:HB3	1.58	0.84
1:B:2178:GLY:O	1:B:2186:LEU:HD21	1.76	0.84
1:D:2239:LYS:HZ2	1:D:2677:ARG:HE	1.19	0.84
1:A:460:LEU:O	1:A:463:GLY:O	1.95	0.84
1:A:2360:PHE:HA	1:A:2363:CYS:SG	2.18	0.84
1:C:2216:CYS:SG	1:C:2646:VAL:HG11	2.17	0.84
1:C:2452:VAL:HG23	1:C:2573:PHE:CZ	2.13	0.84
1:A:2586:PHE:O	1:A:2587:GLY:C	2.17	0.84
1:B:460:LEU:O	1:B:463:GLY:O	1.95	0.84
1:B:2273:MET:N	1:B:2276:TRP:CD1	2.45	0.84
1:B:2360:PHE:HA	1:B:2363:CYS:SG	2.18	0.84
1:D:460:LEU:O	1:D:463:GLY:O	1.95	0.84
1:D:2243:PHE:CE1	1:D:2642:LEU:HD13	1.99	0.84
1:A:884:LEU:O	1:A:888:THR:N	2.10	0.84
1:C:517:LYS:HZ2	1:C:517:LYS:HA	1.42	0.84
1:D:72:PHE:O	1:D:75:ALA:CB	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2288:ASN:HB3	1:D:2413:TYR:HB3	1.58	0.84
1:D:2452:VAL:HG23	1:D:2573:PHE:CZ	2.13	0.84
1:C:72:PHE:O	1:C:75:ALA:CB	2.25	0.84
1:C:2273:MET:HA	1:C:2276:TRP:HD1	1.35	0.84
1:D:2343:ARG:O	1:D:2346:PHE:HD2	1.38	0.84
1:D:2348:VAL:CG1	1:D:2353:THR:CG2	2.43	0.84
1:A:2288:ASN:HB2	1:A:2413:TYR:HB3	1.58	0.84
1:A:2695:LEU:O	1:A:2697:ASN:N	2.11	0.84
1:C:602:ASN:C	1:C:606:LEU:H	1.85	0.84
1:B:509:LEU:O	1:B:509:LEU:HD22	1.78	0.84
1:B:2423:ARG:NH2	1:B:2423:ARG:O	2.10	0.84
1:B:2452:VAL:HG23	1:B:2573:PHE:CZ	2.13	0.84
1:B:2624:LYS:HZ2	1:B:2624:LYS:C	1.84	0.84
1:D:2191:LYS:O	1:D:2192:HIS:HB2	1.77	0.84
1:A:509:LEU:O	1:A:509:LEU:HD22	1.78	0.84
1:A:2348:VAL:HG12	1:A:2353:THR:CB	2.07	0.84
1:A:2452:VAL:HG23	1:A:2573:PHE:CZ	2.13	0.84
1:C:2178:GLY:O	1:C:2186:LEU:HD21	1.76	0.84
1:C:2624:LYS:HZ2	1:C:2624:LYS:C	1.84	0.84
1:B:1995:THR:O	1:B:1998:ASN:O	1.96	0.84
1:D:884:LEU:O	1:D:888:THR:N	2.10	0.84
1:D:2695:LEU:O	1:D:2697:ASN:N	2.11	0.84
1:A:1995:THR:O	1:A:1998:ASN:O	1.96	0.84
1:A:2271:ARG:HH11	1:A:2272:ASN:CG	1.75	0.84
1:C:2285:VAL:HG13	1:C:2286:LEU:N	1.91	0.84
1:A:270:GLN:CD	1:A:271:SER:N	2.36	0.84
1:A:516:LEU:H	1:A:516:LEU:HD12	1.43	0.84
1:A:2273:MET:N	1:A:2276:TRP:CD1	2.45	0.84
1:A:2432:LYS:C	1:A:2434:VAL:H	1.86	0.84
1:A:2706:MET:HG2	1:D:2703:GLU:OE2	1.76	0.84
1:C:509:LEU:O	1:C:509:LEU:HD22	1.78	0.84
1:C:884:LEU:O	1:C:888:THR:N	2.10	0.84
1:C:2360:PHE:HA	1:C:2363:CYS:SG	2.18	0.84
1:C:2412:PHE:C	1:C:2414:SER:N	2.36	0.84
1:C:2447:LEU:HD13	1:D:2427:LEU:HD11	1.59	0.84
1:C:2710:THR:HB	1:B:2707:LYS:HZ3	1.05	0.84
1:D:2062:GLY:C	1:D:2064:ASP:H	1.83	0.84
1:A:393:LEU:HD21	1:D:2737:GLY:O	1.77	0.83
1:C:2576:MET:HE2	1:C:2580:ILE:CG1	2.08	0.83
1:D:509:LEU:O	1:D:512:GLU:HB3	1.78	0.83
1:D:2360:PHE:HA	1:D:2363:CYS:SG	2.18	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2559:GLU:CD	1:A:2562:LEU:CG	2.49	0.83
1:C:265:ARG:HA	1:C:265:ARG:NE	1.92	0.83
1:C:652:ILE:O	1:C:656:VAL:N	2.11	0.83
1:C:2715:GLN:NE2	1:C:2715:GLN:HA	1.91	0.83
1:B:2576:MET:HE2	1:B:2580:ILE:CG1	2.08	0.83
1:B:2695:LEU:O	1:B:2697:ASN:N	2.11	0.83
1:A:602:ASN:C	1:A:606:LEU:H	1.85	0.83
1:C:760:ASP:O	1:C:761:VAL:C	2.18	0.83
1:C:2348:VAL:HG12	1:C:2353:THR:CB	2.07	0.83
1:B:2432:LYS:C	1:B:2434:VAL:H	1.87	0.83
1:B:2559:GLU:CD	1:B:2562:LEU:CG	2.49	0.83
1:B:2637:ASN:CB	1:B:2640:HIS:CD2	2.50	0.83
1:D:602:ASN:C	1:D:606:LEU:H	1.85	0.83
1:A:32:LEU:CB	1:A:445:PHE:CE1	2.61	0.83
1:C:453:LEU:HA	1:C:521:LYS:HZ2	1.34	0.83
1:C:2707:LYS:CE	1:D:2706:MET:O	2.25	0.83
1:B:265:ARG:HA	1:B:265:ARG:NE	1.92	0.83
1:B:270:GLN:CD	1:B:271:SER:N	2.36	0.83
1:B:509:LEU:O	1:B:512:GLU:HB3	1.78	0.83
1:B:516:LEU:H	1:B:516:LEU:HD12	1.43	0.83
1:B:2216:CYS:SG	1:B:2646:VAL:HG22	2.19	0.83
1:A:453:LEU:O	1:A:521:LYS:NZ	2.12	0.83
1:A:2216:CYS:SG	1:A:2646:VAL:HG22	2.19	0.83
1:B:602:ASN:C	1:B:606:LEU:H	1.85	0.83
1:B:2348:VAL:HG12	1:B:2353:THR:OG1	1.76	0.83
1:A:509:LEU:O	1:A:512:GLU:HB3	1.78	0.83
1:A:547:ALA:HB1	1:A:548:PRO:HD3	1.55	0.83
1:A:2571:LEU:O	1:A:2574:PHE:HB3	1.78	0.83
1:C:32:LEU:CB	1:C:445:PHE:CE1	2.61	0.83
1:B:453:LEU:O	1:B:521:LYS:NZ	2.12	0.83
1:B:456:ILE:HB	1:B:521:LYS:HZ2	1.44	0.83
1:B:2288:ASN:HB2	1:B:2413:TYR:HB3	1.58	0.83
1:D:32:LEU:CB	1:D:445:PHE:CE1	2.61	0.83
1:C:2571:LEU:O	1:C:2574:PHE:HB3	1.78	0.83
1:B:2412:PHE:C	1:B:2414:SER:N	2.36	0.83
1:D:270:GLN:CD	1:D:271:SER:N	2.36	0.83
1:D:2348:VAL:HG12	1:D:2353:THR:CB	2.07	0.83
1:C:453:LEU:CA	1:C:521:LYS:HZ2	1.90	0.83
1:C:516:LEU:H	1:C:516:LEU:HD12	1.43	0.83
1:B:2571:LEU:O	1:B:2574:PHE:HB3	1.78	0.83
1:C:547:ALA:CB	1:C:548:PRO:CD	2.17	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2348:VAL:HG12	1:C:2353:THR:OG1	1.76	0.83
1:C:2372:PHE:HD2	1:C:2395:HIS:HD1	1.19	0.83
1:B:884:LEU:O	1:B:888:THR:N	2.10	0.83
1:D:265:ARG:HA	1:D:265:ARG:NE	1.92	0.83
1:D:509:LEU:O	1:D:509:LEU:HD22	1.78	0.83
1:D:2239:LYS:NZ	1:D:2677:ARG:CD	2.42	0.83
1:C:460:LEU:O	1:C:463:GLY:O	1.95	0.83
1:C:2695:LEU:O	1:C:2697:ASN:N	2.11	0.83
1:B:2715:GLN:NE2	1:B:2715:GLN:HA	1.91	0.83
1:A:77:LYS:HZ2	1:A:77:LYS:H	1.27	0.82
1:A:2412:PHE:C	1:A:2414:SER:N	2.36	0.82
1:C:2700:GLU:OE1	1:D:2699:GLN:CA	2.24	0.82
1:B:2288:ASN:CB	1:B:2413:TYR:CB	2.56	0.82
1:B:2399:LEU:O	1:B:2399:LEU:HD22	1.79	0.82
1:D:516:LEU:HD12	1:D:516:LEU:H	1.43	0.82
1:D:1995:THR:O	1:D:1998:ASN:O	1.96	0.82
1:C:453:LEU:O	1:C:521:LYS:NZ	2.12	0.82
1:B:1209:GLY:O	1:B:1259:ILE:CA	2.27	0.82
1:B:2348:VAL:CG1	1:B:2353:THR:CG2	2.43	0.82
1:D:453:LEU:O	1:D:521:LYS:NZ	2.12	0.82
1:D:2432:LYS:C	1:D:2434:VAL:H	1.86	0.82
1:D:2571:LEU:O	1:D:2574:PHE:HB3	1.78	0.82
1:A:2429:ASN:OD1	1:A:2432:LYS:HE2	1.79	0.82
1:D:2343:ARG:HA	1:D:2346:PHE:CD2	2.15	0.82
1:A:69:GLN:H	1:A:100:LYS:NZ	1.76	0.82
1:A:2399:LEU:O	1:A:2399:LEU:HD22	1.79	0.82
1:A:2586:PHE:CD1	1:D:2583:ASN:CB	2.61	0.82
1:C:2637:ASN:CB	1:C:2640:HIS:CD2	2.50	0.82
1:C:2715:GLN:HE22	1:D:2713:SER:HB2	1.03	0.82
1:D:2213:PRO:CA	1:D:2647:LEU:HD13	2.10	0.82
1:A:2396:LEU:O	1:A:2396:LEU:HD22	1.79	0.82
1:C:270:GLN:CD	1:C:271:SER:N	2.36	0.82
1:C:2239:LYS:NZ	1:C:2677:ARG:CD	2.42	0.82
1:C:2343:ARG:HA	1:C:2346:PHE:CD2	2.14	0.82
1:C:2396:LEU:O	1:C:2396:LEU:HD22	1.79	0.82
1:B:2213:PRO:CA	1:B:2647:LEU:HD13	2.10	0.82
1:D:2288:ASN:CB	1:D:2413:TYR:CB	2.56	0.82
1:A:2584:LEU:HD11	1:B:2434:VAL:HG21	0.90	0.82
1:C:2191:LYS:O	1:C:2192:HIS:HB2	1.77	0.82
1:C:2586:PHE:O	1:C:2587:GLY:C	2.17	0.82
1:B:652:ILE:O	1:B:656:VAL:N	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:514:ASN:HD22	1:D:517:LYS:CD	1.93	0.82
1:D:2425:GLU:O	1:D:2428:LEU:HB3	1.80	0.82
1:A:2200:ARG:CB	1:A:2662:TYR:CE2	2.63	0.82
1:C:2432:LYS:C	1:C:2434:VAL:H	1.86	0.82
1:B:760:ASP:O	1:B:761:VAL:C	2.18	0.82
1:B:2200:ARG:CB	1:B:2662:TYR:CE2	2.63	0.82
1:A:2213:PRO:CA	1:A:2647:LEU:HD13	2.10	0.82
1:A:2239:LYS:NZ	1:A:2677:ARG:CD	2.42	0.82
1:A:2715:GLN:NE2	1:A:2715:GLN:HA	1.91	0.82
1:C:509:LEU:O	1:C:512:GLU:HB3	1.78	0.82
1:C:1995:THR:O	1:C:1998:ASN:O	1.96	0.82
1:B:32:LEU:CB	1:B:445:PHE:CE1	2.61	0.82
1:D:453:LEU:HA	1:D:521:LYS:HZ2	1.41	0.82
1:D:2271:ARG:HH11	1:D:2272:ASN:CG	1.75	0.82
1:D:2399:LEU:O	1:D:2399:LEU:HD22	1.79	0.82
1:A:2062:GLY:C	1:A:2064:ASP:H	1.83	0.82
1:A:2341:ILE:HD11	1:A:2360:PHE:HE2	1.45	0.82
1:C:2278:SER:O	1:C:2281:PHE:CD2	2.13	0.82
1:C:2425:GLU:O	1:C:2428:LEU:HB3	1.80	0.82
1:B:2341:ILE:HD11	1:B:2360:PHE:HE2	1.45	0.82
1:B:2425:GLU:O	1:B:2428:LEU:HB3	1.80	0.82
1:B:2586:PHE:O	1:B:2587:GLY:C	2.17	0.82
1:A:760:ASP:O	1:A:761:VAL:C	2.18	0.82
1:A:2699:GLN:CA	1:D:2700:GLU:OE1	2.26	0.82
1:C:2399:LEU:O	1:C:2399:LEU:HD22	1.79	0.82
1:B:460:LEU:CD2	1:B:465:ILE:HG23	2.06	0.82
1:B:2239:LYS:NZ	1:B:2677:ARG:CD	2.42	0.82
1:D:652:ILE:O	1:D:656:VAL:N	2.11	0.82
1:D:2586:PHE:O	1:D:2588:VAL:N	2.13	0.82
1:C:1209:GLY:O	1:C:1259:ILE:CA	2.27	0.81
1:B:69:GLN:H	1:B:100:LYS:NZ	1.76	0.81
1:D:2707:LYS:O	1:D:2710:THR:HG22	1.80	0.81
1:C:1979:ASN:O	1:C:1980:HIS:O	1.98	0.81
1:C:2288:ASN:CB	1:C:2413:TYR:CB	2.56	0.81
1:B:77:LYS:HZ2	1:B:77:LYS:H	1.28	0.81
1:B:2429:ASN:OD1	1:B:2432:LYS:HE2	1.79	0.81
1:B:2586:PHE:O	1:B:2588:VAL:N	2.13	0.81
1:D:1209:GLY:O	1:D:1259:ILE:CA	2.27	0.81
1:D:2046:GLY:O	1:D:2048:CYS:N	2.14	0.81
1:D:2412:PHE:C	1:D:2414:SER:N	2.36	0.81
1:A:2046:GLY:O	1:A:2048:CYS:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2239:LYS:HZ3	1:A:2677:ARG:HD2	1.45	0.81
1:A:2343:ARG:HA	1:A:2346:PHE:CD2	2.14	0.81
1:A:2583:ASN:HB2	1:B:2586:PHE:CZ	2.16	0.81
1:A:2713:SER:HA	1:A:2716:LEU:HD21	1.63	0.81
1:C:2216:CYS:SG	1:C:2646:VAL:HG22	2.19	0.81
1:C:2713:SER:C	1:C:2716:LEU:CD2	2.54	0.81
1:B:2396:LEU:O	1:B:2396:LEU:HD22	1.79	0.81
1:B:2343:ARG:HA	1:B:2346:PHE:CD2	2.14	0.81
1:B:2401:ILE:HD13	1:B:2416:LEU:CD2	2.08	0.81
1:A:1209:GLY:O	1:A:1259:ILE:CA	2.27	0.81
1:B:2191:LYS:O	1:B:2192:HIS:HB2	1.77	0.81
1:D:511:ARG:NE	1:D:570:ASN:OD1	2.14	0.81
1:D:2216:CYS:SG	1:D:2646:VAL:HG22	2.19	0.81
1:D:2341:ILE:HD11	1:D:2360:PHE:HE2	1.45	0.81
1:D:2396:LEU:O	1:D:2396:LEU:HD22	1.79	0.81
1:A:2586:PHE:O	1:A:2588:VAL:N	2.13	0.81
1:A:2707:LYS:HE2	1:B:2706:MET:C	2.05	0.81
1:A:2714:GLY:O	1:A:2717:SER:OG	1.98	0.81
1:B:547:ALA:HB1	1:B:548:PRO:HD3	1.55	0.81
1:D:72:PHE:HD1	1:D:93:HIS:HB2	1.37	0.81
1:A:2273:MET:CB	1:A:2371:SER:OG	2.28	0.81
1:C:69:GLN:H	1:C:100:LYS:NZ	1.76	0.81
1:C:511:ARG:NE	1:C:570:ASN:OD1	2.14	0.81
1:C:2586:PHE:O	1:C:2588:VAL:N	2.13	0.81
1:D:511:ARG:NH1	1:D:570:ASN:OD1	2.14	0.81
1:D:2429:ASN:OD1	1:D:2432:LYS:HE2	1.79	0.81
1:A:2576:MET:HE2	1:A:2580:ILE:HD12	1.63	0.81
1:A:2696:ARG:HH11	1:D:2696:ARG:NE	1.78	0.81
1:C:2213:PRO:CA	1:C:2647:LEU:HD13	2.10	0.81
1:C:2707:LYS:HD2	1:C:2711:ASN:ND2	1.96	0.81
1:B:237:GLY:O	1:B:283:GLU:CD	2.24	0.81
1:B:511:ARG:NH1	1:B:570:ASN:OD1	2.14	0.81
1:B:2046:GLY:O	1:B:2048:CYS:N	2.14	0.81
1:D:2713:SER:C	1:D:2716:LEU:CD2	2.54	0.81
1:D:2714:GLY:O	1:D:2717:SER:OG	1.98	0.81
1:A:652:ILE:O	1:A:656:VAL:N	2.11	0.81
1:A:2576:MET:HE2	1:A:2580:ILE:CG1	2.08	0.81
1:C:2341:ILE:HD11	1:C:2360:PHE:HE2	1.45	0.81
1:C:2637:ASN:HB3	1:C:2640:HIS:CD2	2.15	0.81
1:B:1979:ASN:O	1:B:1980:HIS:O	1.98	0.81
1:A:1979:ASN:O	1:A:1980:HIS:O	1.98	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2425:GLU:O	1:A:2428:LEU:HB3	1.80	0.81
1:A:2583:ASN:HD22	1:B:2586:PHE:CA	1.94	0.81
1:C:237:GLY:O	1:C:283:GLU:CD	2.24	0.81
1:B:511:ARG:NE	1:B:570:ASN:OD1	2.14	0.81
1:B:2707:LYS:HD2	1:B:2711:ASN:ND2	1.96	0.81
1:D:77:LYS:HZ2	1:D:77:LYS:H	1.27	0.81
1:D:2433:SER:CB	1:D:2593:PHE:CE1	2.59	0.81
1:D:2576:MET:HE2	1:D:2580:ILE:CG1	2.08	0.81
1:A:621:LEU:O	1:A:625:ASN:N	2.14	0.80
1:A:2341:ILE:HD11	1:A:2360:PHE:CE2	2.16	0.80
1:B:72:PHE:CD1	1:B:93:HIS:CB	2.60	0.80
1:C:73:TRP:O	1:C:77:LYS:NZ	2.14	0.80
1:C:2200:ARG:CB	1:C:2662:TYR:CE2	2.63	0.80
1:C:2707:LYS:O	1:C:2710:THR:HG22	1.80	0.80
1:B:73:TRP:O	1:B:77:LYS:NZ	2.14	0.80
1:B:2348:VAL:HG12	1:B:2353:THR:CB	2.07	0.80
1:D:2189:TYR:O	1:D:2192:HIS:O	1.99	0.80
1:D:2637:ASN:HB3	1:D:2640:HIS:CD2	2.15	0.80
1:A:2637:ASN:HB3	1:A:2640:HIS:CD2	2.15	0.80
1:C:514:ASN:OD1	1:C:516:LEU:CD1	2.23	0.80
1:C:2273:MET:N	1:C:2276:TRP:CD1	2.45	0.80
1:C:2429:ASN:OD1	1:C:2432:LYS:HE2	1.79	0.80
1:B:621:LEU:O	1:B:625:ASN:N	2.14	0.80
1:B:2273:MET:CB	1:B:2371:SER:OG	2.28	0.80
1:B:2713:SER:C	1:B:2716:LEU:CD2	2.54	0.80
1:A:511:ARG:NE	1:A:570:ASN:OD1	2.14	0.80
1:A:2401:ILE:HD13	1:A:2416:LEU:CD2	2.08	0.80
1:C:2273:MET:CB	1:C:2371:SER:OG	2.28	0.80
1:C:2433:SER:CB	1:C:2593:PHE:CE1	2.59	0.80
1:B:2713:SER:HA	1:B:2716:LEU:HD21	1.62	0.80
1:D:2200:ARG:CB	1:D:2662:TYR:CE2	2.63	0.80
1:A:2713:SER:C	1:A:2716:LEU:CD2	2.54	0.80
1:C:2622:ASP:CG	1:C:2628:PHE:CG	2.59	0.80
1:B:2710:THR:CG2	1:B:2711:ASN:HD22	1.94	0.80
1:A:269:ARG:HB3	2:A:2801:JYP:C4	1.94	0.80
1:A:460:LEU:CD2	1:A:465:ILE:HG23	2.06	0.80
1:A:2250:LEU:O	1:A:2250:LEU:HD13	1.82	0.80
1:A:2622:ASP:CG	1:A:2628:PHE:CG	2.59	0.80
1:C:2250:LEU:HD13	1:C:2250:LEU:O	1.82	0.80
1:C:2583:ASN:CB	1:D:2586:PHE:CD1	2.60	0.80
1:B:2622:ASP:CG	1:B:2628:PHE:CG	2.59	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2707:LYS:HD2	1:D:2711:ASN:ND2	1.96	0.80
1:A:2707:LYS:O	1:A:2710:THR:HG22	1.80	0.80
1:A:2710:THR:CG2	1:A:2711:ASN:HD22	1.94	0.80
1:C:511:ARG:NH1	1:C:570:ASN:OD1	2.14	0.80
1:B:1404:ASP:O	1:B:1407:VAL:N	2.15	0.80
1:D:2250:LEU:O	1:D:2250:LEU:HD13	1.82	0.80
1:A:237:GLY:O	1:A:283:GLU:CD	2.24	0.80
1:A:511:ARG:NH1	1:A:570:ASN:OD1	2.14	0.80
1:A:2707:LYS:HD2	1:A:2711:ASN:ND2	1.96	0.80
1:C:621:LEU:O	1:C:625:ASN:N	2.14	0.80
1:C:2714:GLY:O	1:C:2717:SER:OG	1.98	0.80
1:B:108:ARG:HG3	1:B:108:ARG:NH1	1.95	0.80
1:B:2707:LYS:O	1:B:2710:THR:HG22	1.81	0.80
1:B:2714:GLY:O	1:B:2717:SER:OG	1.98	0.80
1:D:264:LEU:O	1:D:265:ARG:NH2	2.15	0.80
1:A:72:PHE:CD1	1:A:93:HIS:CB	2.60	0.80
1:A:2189:TYR:O	1:A:2192:HIS:O	1.99	0.80
1:A:2401:ILE:HG13	1:A:2402:CYS:N	1.97	0.80
1:A:2434:VAL:HG13	1:A:2589:ILE:HD12	1.64	0.80
1:C:486:GLY:CA	1:C:510:MET:SD	2.70	0.80
1:C:1209:GLY:O	1:C:1259:ILE:C	2.25	0.80
1:C:2046:GLY:O	1:C:2048:CYS:N	2.13	0.80
1:C:2434:VAL:HG13	1:C:2589:ILE:HD12	1.64	0.80
1:B:453:LEU:HA	1:B:521:LYS:HZ2	1.44	0.80
1:B:2189:TYR:O	1:B:2192:HIS:O	1.99	0.80
1:B:2434:VAL:HG13	1:B:2589:ILE:HD12	1.64	0.80
1:D:237:GLY:O	1:D:283:GLU:CD	2.24	0.80
1:D:517:LYS:HA	1:D:517:LYS:HZ2	1.47	0.80
1:D:2239:LYS:HZ3	1:D:2677:ARG:HD2	1.46	0.80
1:D:2273:MET:N	1:D:2276:TRP:CD1	2.45	0.80
1:D:2341:ILE:HD11	1:D:2360:PHE:CE2	2.16	0.80
1:D:2622:ASP:CG	1:D:2628:PHE:CG	2.59	0.80
1:D:2713:SER:HA	1:D:2716:LEU:HD21	1.63	0.80
1:A:1209:GLY:O	1:A:1259:ILE:C	2.24	0.80
1:A:2433:SER:O	1:A:2434:VAL:CG2	2.30	0.80
1:B:514:ASN:HB3	1:B:517:LYS:H	1.45	0.80
1:D:1979:ASN:O	1:D:1980:HIS:O	1.98	0.80
1:A:144:LYS:CB	1:B:1302:HIS:CA	2.60	0.79
1:A:264:LEU:O	1:A:265:ARG:NH2	2.15	0.79
1:A:2583:ASN:HD22	1:B:2586:PHE:CB	1.95	0.79
1:C:2710:THR:CG2	1:C:2711:ASN:HD22	1.94	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2343:ARG:O	1:B:2346:PHE:CE2	2.36	0.79
1:B:2637:ASN:HB3	1:B:2640:HIS:CD2	2.15	0.79
1:D:73:TRP:O	1:D:77:LYS:NZ	2.14	0.79
1:D:460:LEU:O	1:D:460:LEU:HD13	1.82	0.79
1:D:514:ASN:OD1	1:D:516:LEU:HD11	1.81	0.79
1:D:567:TYR:C	1:D:571:GLN:NE2	2.40	0.79
1:D:2710:THR:CG2	1:D:2711:ASN:HD22	1.94	0.79
1:A:73:TRP:O	1:A:77:LYS:NZ	2.14	0.79
1:C:567:TYR:HB2	1:C:571:GLN:CG	2.13	0.79
1:C:2401:ILE:HD13	1:C:2416:LEU:CD2	2.08	0.79
1:B:514:ASN:HD22	1:B:517:LYS:CD	1.93	0.79
1:B:2576:MET:HE2	1:B:2580:ILE:HD12	1.63	0.79
1:D:69:GLN:H	1:D:100:LYS:NZ	1.76	0.79
1:D:2273:MET:CB	1:D:2371:SER:OG	2.28	0.79
1:B:74:LYS:HA	1:B:74:LYS:HZ3	1.47	0.79
1:B:264:LEU:O	1:B:265:ARG:NH2	2.15	0.79
1:B:2401:ILE:HG13	1:B:2402:CYS:N	1.97	0.79
1:D:602:ASN:O	1:D:603:ARG:C	2.22	0.79
1:D:2559:GLU:CD	1:D:2562:LEU:HG	2.07	0.79
1:A:567:TYR:C	1:A:571:GLN:NE2	2.40	0.79
1:C:460:LEU:O	1:C:460:LEU:HD13	1.82	0.79
1:C:2341:ILE:HD11	1:C:2360:PHE:CE2	2.16	0.79
1:B:602:ASN:O	1:B:603:ARG:C	2.22	0.79
1:C:264:LEU:O	1:C:265:ARG:NH2	2.15	0.79
1:C:571:GLN:HB3	1:C:574:ILE:HD11	1.63	0.79
1:C:2666:MET:HB3	1:C:2674:TRP:HE1	1.48	0.79
1:C:2710:THR:CB	1:B:2707:LYS:HZ3	1.64	0.79
1:B:621:LEU:O	1:B:625:ASN:CA	2.31	0.79
1:D:567:TYR:HB2	1:D:571:GLN:CG	2.13	0.79
1:D:621:LEU:O	1:D:625:ASN:N	2.14	0.79
1:D:2433:SER:O	1:D:2434:VAL:CG2	2.30	0.79
1:A:567:TYR:HB2	1:A:571:GLN:CG	2.13	0.79
1:A:2213:PRO:HG3	1:A:2647:LEU:CA	2.06	0.79
1:A:2278:SER:O	1:A:2281:PHE:CD2	2.13	0.79
1:A:2343:ARG:O	1:A:2346:PHE:CE2	2.36	0.79
1:A:2434:VAL:HG21	1:D:2584:LEU:CD1	2.06	0.79
1:C:567:TYR:C	1:C:571:GLN:NE2	2.40	0.79
1:C:2710:THR:CG2	1:B:2707:LYS:NZ	2.46	0.79
1:C:2713:SER:HA	1:C:2716:LEU:HD21	1.63	0.79
1:B:567:TYR:C	1:B:571:GLN:NE2	2.40	0.79
1:B:2341:ILE:HD11	1:B:2360:PHE:CE2	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:621:LEU:O	1:D:625:ASN:CA	2.31	0.79
1:D:2243:PHE:CE2	1:D:2638:MET:CB	2.53	0.79
1:D:2576:MET:HE2	1:D:2580:ILE:HD12	1.63	0.79
1:A:69:GLN:NE2	1:A:100:LYS:CD	2.24	0.79
1:A:2736:LEU:HD23	1:A:2736:LEU:O	1.83	0.79
1:C:269:ARG:HB3	2:C:2801:JYP:C4	1.94	0.79
1:C:460:LEU:CD2	1:C:465:ILE:HG23	2.06	0.79
1:C:2345:ILE:HD11	1:C:2356:LEU:CG	2.12	0.79
1:C:2583:ASN:ND2	1:D:2586:PHE:CA	2.45	0.79
1:B:2433:SER:O	1:B:2434:VAL:CG2	2.31	0.79
1:B:2666:MET:HB3	1:B:2674:TRP:HE1	1.48	0.79
1:D:514:ASN:OD1	1:D:516:LEU:CD1	2.24	0.79
1:A:453:LEU:C	1:A:521:LYS:HZ2	1.90	0.79
1:A:2285:VAL:CG1	1:A:2286:LEU:N	2.45	0.79
1:A:2428:LEU:HA	1:A:2431:ILE:HD12	1.65	0.79
1:B:299:TRP:CZ2	1:B:380:SER:HB3	2.18	0.79
1:B:460:LEU:O	1:B:460:LEU:HD13	1.82	0.79
1:D:2285:VAL:CG1	1:D:2286:LEU:N	2.45	0.79
1:D:2666:MET:HB3	1:D:2674:TRP:HE1	1.48	0.79
1:A:514:ASN:HD22	1:A:517:LYS:CD	1.93	0.79
1:C:514:ASN:HB3	1:C:517:LYS:H	1.45	0.79
1:C:2189:TYR:O	1:C:2192:HIS:O	1.99	0.79
1:B:1209:GLY:O	1:B:1259:ILE:C	2.24	0.79
1:B:2239:LYS:HZ3	1:B:2677:ARG:HD2	1.46	0.79
1:B:2250:LEU:O	1:B:2250:LEU:HD13	1.82	0.79
1:D:2401:ILE:HD13	1:D:2416:LEU:CD2	2.08	0.79
1:D:2432:LYS:O	1:D:2434:VAL:N	2.16	0.79
1:C:584:GLN:HG2	1:C:585:ILE:HG22	1.65	0.79
1:C:2210:PHE:HE2	1:C:2647:LEU:CD2	1.85	0.79
1:B:2432:LYS:O	1:B:2434:VAL:N	2.16	0.79
1:D:456:ILE:HB	1:D:521:LYS:HZ2	1.48	0.79
1:D:486:GLY:CA	1:D:510:MET:SD	2.70	0.79
1:D:2210:PHE:HE2	1:D:2647:LEU:CD2	1.85	0.79
1:A:839:PHE:O	1:A:843:TYR:N	2.15	0.78
1:C:621:LEU:O	1:C:625:ASN:CA	2.31	0.78
1:C:2345:ILE:HG23	1:C:2353:THR:HG1	1.45	0.78
1:B:571:GLN:HB3	1:B:574:ILE:HD11	1.63	0.78
1:D:517:LYS:HA	1:D:517:LYS:NZ	1.98	0.78
1:D:1209:GLY:O	1:D:1259:ILE:C	2.24	0.78
1:A:621:LEU:O	1:A:625:ASN:CA	2.31	0.78
1:C:2433:SER:O	1:C:2434:VAL:CG2	2.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2345:ILE:HD11	1:B:2356:LEU:CG	2.12	0.78
1:D:514:ASN:HB3	1:D:517:LYS:H	1.45	0.78
1:A:2720:LYS:HE2	1:A:2720:LYS:HA	1.66	0.78
1:B:2210:PHE:HE2	1:B:2647:LEU:CD2	1.85	0.78
1:B:2285:VAL:CG1	1:B:2286:LEU:N	2.45	0.78
1:B:2559:GLU:CD	1:B:2562:LEU:HG	2.07	0.78
1:B:2622:ASP:HB3	1:B:2628:PHE:CG	2.18	0.78
1:D:299:TRP:CZ2	1:D:380:SER:HB3	2.18	0.78
1:A:2239:LYS:HZ2	1:A:2677:ARG:HE	1.32	0.78
1:A:2345:ILE:HD11	1:A:2356:LEU:CG	2.12	0.78
1:A:2432:LYS:O	1:A:2434:VAL:N	2.16	0.78
1:A:2677:ARG:NH2	1:B:2623:ASN:ND2	2.31	0.78
1:C:2710:THR:CG2	1:B:2707:LYS:HZ3	1.96	0.78
1:B:517:LYS:NZ	1:B:517:LYS:HA	1.99	0.78
1:D:2345:ILE:HD11	1:D:2356:LEU:CG	2.12	0.78
1:D:2720:LYS:HE2	1:D:2720:LYS:HA	1.65	0.78
1:A:2343:ARG:CA	1:A:2346:PHE:CD2	2.66	0.78
1:A:2589:ILE:CG2	1:D:2583:ASN:OD1	2.26	0.78
1:C:88:LEU:C	1:C:92:LEU:HD11	2.01	0.78
1:C:453:LEU:C	1:C:521:LYS:HZ2	1.91	0.78
1:C:456:ILE:HB	1:C:521:LYS:NZ	1.99	0.78
1:C:2432:LYS:O	1:C:2434:VAL:N	2.16	0.78
1:C:2736:LEU:HD23	1:C:2736:LEU:O	1.83	0.78
1:B:2428:LEU:HA	1:B:2431:ILE:HD12	1.65	0.78
1:B:2736:LEU:O	1:B:2736:LEU:HD23	1.83	0.78
1:D:571:GLN:HB3	1:D:574:ILE:HD11	1.63	0.78
1:D:2428:LEU:O	1:D:2428:LEU:HD22	1.83	0.78
1:C:77:LYS:HZ2	1:C:77:LYS:H	1.29	0.78
1:D:460:LEU:CD2	1:D:465:ILE:HG23	2.06	0.78
1:D:2343:ARG:CA	1:D:2346:PHE:CD2	2.66	0.78
1:D:2345:ILE:HG23	1:D:2348:VAL:HG11	1.66	0.78
1:D:2428:LEU:HA	1:D:2431:ILE:HD12	1.65	0.78
1:D:2736:LEU:HD23	1:D:2736:LEU:O	1.83	0.78
1:A:571:GLN:HB3	1:A:574:ILE:HD11	1.63	0.78
1:A:1633:PRO:O	1:A:1637:PHE:N	2.17	0.78
1:C:299:TRP:CZ2	1:C:380:SER:HB3	2.18	0.78
1:C:554:ARG:HG2	1:C:554:ARG:NH1	1.96	0.78
1:C:2401:ILE:HG13	1:C:2402:CYS:N	1.97	0.78
1:C:2428:LEU:O	1:C:2428:LEU:HD22	1.83	0.78
1:B:567:TYR:HB2	1:B:571:GLN:CG	2.13	0.78
1:D:456:ILE:HB	1:D:521:LYS:NZ	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:514:ASN:HB3	1:A:517:LYS:H	1.45	0.78
1:A:517:LYS:HA	1:A:517:LYS:NZ	1.99	0.78
1:A:2428:LEU:O	1:A:2428:LEU:HD22	1.83	0.78
1:C:2239:LYS:HZ3	1:C:2677:ARG:HD2	1.45	0.78
1:C:2559:GLU:CD	1:C:2562:LEU:HG	2.07	0.78
1:B:522:LEU:O	1:B:522:LEU:HD13	1.84	0.78
1:D:2434:VAL:HG13	1:D:2589:ILE:HD12	1.64	0.78
1:A:299:TRP:CZ2	1:A:380:SER:HB3	2.18	0.78
1:C:89:LEU:O	1:C:93:HIS:ND1	2.17	0.78
1:C:2213:PRO:HG3	1:C:2647:LEU:CA	2.06	0.78
1:C:2428:LEU:HA	1:C:2431:ILE:HD12	1.65	0.78
1:C:2576:MET:HE2	1:C:2580:ILE:HD12	1.63	0.78
1:D:1633:PRO:O	1:D:1637:PHE:N	2.17	0.78
1:D:2278:SER:O	1:D:2281:PHE:CD2	2.13	0.78
1:D:2626:VAL:HG12	1:D:2627:THR:CA	2.14	0.78
1:A:2288:ASN:CB	1:A:2413:TYR:CB	2.56	0.78
1:A:2345:ILE:HG23	1:A:2348:VAL:HG11	1.66	0.78
1:A:2622:ASP:HB3	1:A:2628:PHE:CG	2.18	0.78
1:A:2649:LYS:C	1:A:2650:VAL:HG13	2.08	0.78
1:C:876:PHE:O	1:C:880:ASN:N	2.16	0.78
1:B:1619:VAL:C	1:B:1621:ALA:N	2.41	0.78
1:D:522:LEU:O	1:D:522:LEU:HD13	1.84	0.78
1:D:2239:LYS:NZ	1:D:2677:ARG:HE	1.82	0.78
1:A:460:LEU:O	1:A:460:LEU:HD13	1.82	0.77
1:A:876:PHE:O	1:A:880:ASN:N	2.16	0.77
1:C:2343:ARG:CA	1:C:2346:PHE:CD2	2.66	0.77
1:C:2365:LYS:NZ	1:C:2368:PHE:CE2	2.52	0.77
1:C:2576:MET:HE2	1:C:2580:ILE:HG13	1.62	0.77
1:C:2622:ASP:HB3	1:C:2628:PHE:CG	2.18	0.77
1:C:2649:LYS:C	1:C:2650:VAL:HG13	2.08	0.77
1:B:89:LEU:O	1:B:93:HIS:ND1	2.17	0.77
1:B:453:LEU:CA	1:B:521:LYS:HZ3	1.96	0.77
1:B:514:ASN:OD1	1:B:516:LEU:CD1	2.23	0.77
1:B:2428:LEU:O	1:B:2428:LEU:HD22	1.83	0.77
1:B:2720:LYS:HE2	1:B:2720:LYS:HA	1.65	0.77
1:D:89:LEU:O	1:D:93:HIS:ND1	2.17	0.77
1:C:2735:LEU:O	1:C:2735:LEU:HD22	1.85	0.77
1:B:584:GLN:HG2	1:B:585:ILE:HG22	1.65	0.77
1:B:876:PHE:O	1:B:880:ASN:N	2.16	0.77
1:D:2401:ILE:HG13	1:D:2402:CYS:N	1.97	0.77
1:D:2622:ASP:HB3	1:D:2628:PHE:CG	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2285:VAL:CG1	1:C:2286:LEU:N	2.45	0.77
1:C:2348:VAL:HG23	1:C:2350:LEU:H	1.49	0.77
1:B:486:GLY:CA	1:B:510:MET:SD	2.70	0.77
1:B:2278:SER:O	1:B:2281:PHE:CD2	2.13	0.77
1:B:2343:ARG:CA	1:B:2346:PHE:CD2	2.66	0.77
1:B:2735:LEU:O	1:B:2735:LEU:HD22	1.85	0.77
1:D:2735:LEU:O	1:D:2735:LEU:HD22	1.85	0.77
1:A:89:LEU:O	1:A:93:HIS:ND1	2.17	0.77
1:A:456:ILE:HB	1:A:521:LYS:NZ	1.99	0.77
1:A:1619:VAL:C	1:A:1621:ALA:N	2.41	0.77
1:C:2710:THR:HG23	1:C:2711:ASN:ND2	2.00	0.77
1:B:554:ARG:HG2	1:B:554:ARG:NH1	1.96	0.77
1:D:876:PHE:O	1:D:880:ASN:N	2.16	0.77
1:A:2288:ASN:OD1	1:A:2289:LEU:N	2.18	0.77
1:A:2666:MET:HB3	1:A:2674:TRP:HE1	1.48	0.77
1:C:2699:GLN:HG3	1:B:2700:GLU:OE1	1.85	0.77
1:C:2720:LYS:HA	1:C:2720:LYS:HE2	1.66	0.77
1:B:2365:LYS:NZ	1:B:2368:PHE:CE2	2.52	0.77
1:D:847:VAL:O	1:D:851:ARG:N	2.18	0.77
1:D:2343:ARG:O	1:D:2346:PHE:CE2	2.36	0.77
1:D:2348:VAL:HG23	1:D:2350:LEU:H	1.49	0.77
1:A:486:GLY:CA	1:A:510:MET:SD	2.70	0.77
1:A:2365:LYS:NZ	1:A:2368:PHE:CE2	2.52	0.77
1:A:2735:LEU:O	1:A:2735:LEU:HD22	1.85	0.77
1:C:839:PHE:O	1:C:843:TYR:N	2.15	0.77
1:C:2271:ARG:HH12	1:C:2272:ASN:CG	1.88	0.77
1:C:2288:ASN:OD1	1:C:2289:LEU:N	2.18	0.77
1:B:2351:GLN:N	1:B:2352:PRO:HD2	2.00	0.77
1:B:2710:THR:HG23	1:B:2711:ASN:ND2	2.00	0.77
1:A:720:LYS:CA	1:A:726:ASP:CA	2.63	0.77
1:A:2239:LYS:NZ	1:A:2677:ARG:HE	1.82	0.77
1:A:2559:GLU:CD	1:A:2562:LEU:HG	2.07	0.77
1:C:720:LYS:CA	1:C:726:ASP:CA	2.63	0.77
1:B:1633:PRO:O	1:B:1637:PHE:N	2.17	0.77
1:B:2648:VAL:HG23	1:B:2649:LYS:HE2	1.66	0.77
1:C:517:LYS:HA	1:C:517:LYS:NZ	1.99	0.77
1:C:2345:ILE:HG23	1:C:2348:VAL:HG11	1.66	0.77
1:B:2288:ASN:OD1	1:B:2289:LEU:N	2.18	0.77
1:D:69:GLN:NE2	1:D:100:LYS:CD	2.24	0.77
1:A:270:GLN:H	2:A:2801:JYP:C4	1.96	0.77
1:C:72:PHE:CD1	1:C:93:HIS:CB	2.60	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2239:LYS:NZ	1:C:2677:ARG:HE	1.82	0.77
1:D:2365:LYS:NZ	1:D:2368:PHE:CE2	2.52	0.77
1:A:847:VAL:O	1:A:851:ARG:N	2.18	0.77
1:A:2715:GLN:HE22	1:B:2713:SER:HB2	0.96	0.77
1:C:602:ASN:O	1:C:603:ARG:C	2.22	0.77
1:C:2626:VAL:HG12	1:C:2627:THR:CA	2.14	0.77
1:C:2648:VAL:HG23	1:C:2649:LYS:HE2	1.66	0.77
1:B:456:ILE:HB	1:B:521:LYS:NZ	1.99	0.77
1:B:2626:VAL:HG12	1:B:2627:THR:CA	2.14	0.77
1:D:554:ARG:HG2	1:D:554:ARG:NH1	1.96	0.77
1:D:2351:GLN:N	1:D:2352:PRO:HD2	2.00	0.77
1:D:2423:ARG:O	1:D:2423:ARG:HD2	1.85	0.77
1:D:2710:THR:HG23	1:D:2711:ASN:ND2	2.00	0.77
1:A:514:ASN:OD1	1:A:516:LEU:CD1	2.24	0.76
1:A:583:LYS:O	1:A:583:LYS:HD2	1.86	0.76
1:A:1404:ASP:O	1:A:1407:VAL:N	2.15	0.76
1:C:768:MET:CA	1:C:776:ASP:N	2.48	0.76
1:B:847:VAL:O	1:B:851:ARG:N	2.18	0.76
1:D:2649:LYS:C	1:D:2650:VAL:HG13	2.08	0.76
1:A:2626:VAL:HG12	1:A:2627:THR:CA	2.14	0.76
1:C:847:VAL:O	1:C:851:ARG:N	2.18	0.76
1:B:839:PHE:O	1:B:843:TYR:N	2.15	0.76
1:A:584:GLN:HG2	1:A:585:ILE:HG22	1.65	0.76
2:A:2801:JYP:C8	2:A:2801:JYP:O16	2.34	0.76
1:C:514:ASN:OD1	1:C:516:LEU:HD11	1.81	0.76
1:C:522:LEU:O	1:C:522:LEU:HD13	1.84	0.76
1:C:583:LYS:O	1:C:583:LYS:HD2	1.86	0.76
1:C:1404:ASP:O	1:C:1407:VAL:N	2.15	0.76
1:D:2288:ASN:HB2	1:D:2413:TYR:C	2.11	0.76
1:D:2288:ASN:OD1	1:D:2289:LEU:N	2.18	0.76
1:A:514:ASN:OD1	1:A:516:LEU:HD11	1.81	0.76
1:A:602:ASN:O	1:A:603:ARG:C	2.22	0.76
1:A:768:MET:CA	1:A:776:ASP:N	2.48	0.76
1:A:2351:GLN:N	1:A:2352:PRO:HD2	2.00	0.76
1:A:2727:ARG:NE	1:A:2727:ARG:HA	2.01	0.76
1:D:515:ILE:O	1:D:515:ILE:HD12	1.85	0.76
1:D:720:LYS:CA	1:D:726:ASP:CA	2.63	0.76
1:A:44:GLY:H	1:A:50:PRO:HG3	1.51	0.76
1:A:2210:PHE:HE2	1:A:2647:LEU:CD2	1.85	0.76
1:A:2677:ARG:CD	1:B:2623:ASN:OD1	2.28	0.76
1:A:2683:LEU:C	1:A:2684:VAL:HG22	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2710:THR:HG23	1:A:2711:ASN:ND2	2.00	0.76
1:C:1633:PRO:O	1:C:1637:PHE:N	2.17	0.76
1:B:2649:LYS:C	1:B:2650:VAL:HG13	2.08	0.76
1:D:72:PHE:O	1:D:75:ALA:HB3	1.86	0.76
1:D:88:LEU:CD1	1:D:88:LEU:H	1.98	0.76
1:D:584:GLN:HG2	1:D:585:ILE:HG22	1.65	0.76
1:D:768:MET:CA	1:D:776:ASP:N	2.48	0.76
1:A:522:LEU:O	1:A:522:LEU:HD13	1.84	0.76
1:A:2239:LYS:HZ2	1:A:2677:ARG:NE	1.82	0.76
1:A:2648:VAL:HG23	1:A:2649:LYS:HE2	1.66	0.76
1:C:515:ILE:HD12	1:C:515:ILE:O	1.85	0.76
1:B:515:ILE:HD12	1:B:515:ILE:O	1.85	0.76
1:B:583:LYS:HD2	1:B:583:LYS:O	1.85	0.76
1:B:2288:ASN:HB2	1:B:2413:TYR:C	2.11	0.76
1:B:2727:ARG:HA	1:B:2727:ARG:NE	2.01	0.76
1:A:62:PRO:HB3	1:A:110:LEU:HD13	1.67	0.76
1:A:554:ARG:HG2	1:A:554:ARG:NH1	1.96	0.76
1:A:2623:ASN:ND2	1:D:2677:ARG:NH2	2.33	0.76
1:C:69:GLN:NE2	1:C:100:LYS:CD	2.24	0.76
1:C:270:GLN:HE21	1:C:271:SER:H	1.32	0.76
1:C:760:ASP:O	1:C:763:LEU:N	2.19	0.76
1:C:2715:GLN:NE2	1:D:2713:SER:HB3	2.00	0.76
1:B:2348:VAL:HG23	1:B:2350:LEU:H	1.49	0.76
2:D:2801:JYP:C8	2:D:2801:JYP:O16	2.33	0.76
1:A:2365:LYS:NZ	1:A:2368:PHE:HD2	1.83	0.76
1:C:2423:ARG:O	1:C:2423:ARG:HD2	1.85	0.76
1:B:88:LEU:H	1:B:88:LEU:CD1	1.98	0.76
1:B:720:LYS:CA	1:B:726:ASP:CA	2.63	0.76
1:D:453:LEU:CA	1:D:521:LYS:HZ3	1.99	0.76
1:A:760:ASP:O	1:A:763:LEU:N	2.19	0.76
1:C:78:PRO:C	1:C:81:ASN:O	2.29	0.76
1:C:2288:ASN:HB2	1:C:2413:TYR:C	2.11	0.76
1:C:2737:GLY:O	1:D:393:LEU:HD21	1.85	0.76
1:B:2271:ARG:HH12	1:B:2272:ASN:CG	1.88	0.76
1:D:1619:VAL:C	1:D:1621:ALA:N	2.41	0.76
1:D:2618:ARG:HB3	1:D:2618:ARG:CZ	2.16	0.76
1:A:564:GLN:HE22	1:A:578:PHE:HD2	1.33	0.76
1:A:2348:VAL:HG23	1:A:2350:LEU:H	1.49	0.76
1:C:2351:GLN:N	1:C:2352:PRO:HD2	2.00	0.76
1:C:2696:ARG:HH12	1:B:2696:ARG:NE	1.75	0.76
1:B:2239:LYS:NZ	1:B:2677:ARG:HE	1.82	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2433:SER:CB	1:B:2593:PHE:CE1	2.59	0.76
1:B:2683:LEU:C	1:B:2684:VAL:HG22	2.11	0.76
1:D:88:LEU:C	1:D:92:LEU:HD11	2.01	0.76
1:A:504:ARG:HA	1:A:507:GLN:HG2	1.68	0.75
1:A:2586:PHE:CA	1:D:2583:ASN:ND2	2.49	0.75
1:C:88:LEU:CD1	1:C:88:LEU:H	1.98	0.75
1:C:2343:ARG:O	1:C:2346:PHE:CE2	2.36	0.75
1:C:2586:PHE:CZ	1:B:2583:ASN:HB2	2.20	0.75
1:B:44:GLY:H	1:B:50:PRO:HG3	1.50	0.75
1:B:2365:LYS:NZ	1:B:2368:PHE:HD2	1.83	0.75
1:B:2423:ARG:O	1:B:2423:ARG:HD2	1.85	0.75
1:D:237:GLY:O	1:D:283:GLU:OE2	2.04	0.75
1:D:564:GLN:NE2	1:D:578:PHE:HD2	1.84	0.75
1:D:839:PHE:O	1:D:843:TYR:N	2.15	0.75
1:D:2271:ARG:HH12	1:D:2272:ASN:CG	1.88	0.75
1:A:237:GLY:O	1:A:283:GLU:OE2	2.04	0.75
1:C:514:ASN:HD22	1:C:517:LYS:CD	1.93	0.75
1:C:564:GLN:NE2	1:C:578:PHE:HD2	1.85	0.75
1:C:2365:LYS:NZ	1:C:2368:PHE:HD2	1.83	0.75
1:C:2727:ARG:NE	1:C:2727:ARG:HA	2.01	0.75
1:B:2345:ILE:HG23	1:B:2348:VAL:HG11	1.66	0.75
2:B:2801:JYP:O16	2:B:2801:JYP:C8	2.34	0.75
1:D:2648:VAL:HG23	1:D:2649:LYS:HE2	1.66	0.75
1:A:1248:ASN:CA	1:A:1252:GLN:H	1.99	0.75
1:A:2288:ASN:HB2	1:A:2413:TYR:C	2.11	0.75
1:A:2423:ARG:O	1:A:2423:ARG:HD2	1.85	0.75
1:C:44:GLY:H	1:C:50:PRO:HG3	1.51	0.75
1:B:72:PHE:O	1:B:75:ALA:HB3	1.86	0.75
1:B:564:GLN:HE22	1:B:578:PHE:HD2	1.33	0.75
1:D:583:LYS:HD2	1:D:583:LYS:O	1.86	0.75
1:A:88:LEU:CD1	1:A:88:LEU:H	1.98	0.75
1:A:515:ILE:HD12	1:A:515:ILE:O	1.85	0.75
1:C:237:GLY:O	1:C:283:GLU:OE2	2.04	0.75
1:B:760:ASP:O	1:B:763:LEU:N	2.19	0.75
1:D:504:ARG:HA	1:D:507:GLN:HG2	1.68	0.75
1:B:237:GLY:O	1:B:283:GLU:OE2	2.04	0.75
1:D:2178:GLY:O	1:D:2186:LEU:CD2	2.35	0.75
1:D:2727:ARG:NE	1:D:2727:ARG:HA	2.01	0.75
1:C:2683:LEU:C	1:C:2684:VAL:HG22	2.10	0.75
2:C:2801:JYP:O16	2:C:2801:JYP:C8	2.34	0.75
1:B:504:ARG:HA	1:B:507:GLN:HG2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2618:ARG:HB3	1:B:2618:ARG:CZ	2.16	0.75
1:D:62:PRO:HB3	1:D:110:LEU:HD13	1.67	0.75
1:A:2388:LEU:CD2	1:A:2388:LEU:H	1.93	0.75
1:D:78:PRO:C	1:D:81:ASN:O	2.29	0.75
1:D:2560:GLU:HG2	1:D:2563:PHE:CE2	2.16	0.75
1:C:62:PRO:HB3	1:C:110:LEU:HD13	1.67	0.75
1:B:1226:GLU:O	1:B:1231:GLN:CA	2.35	0.75
1:D:270:GLN:HE21	1:D:271:SER:H	1.32	0.75
1:D:564:GLN:HE22	1:D:578:PHE:HD2	1.33	0.75
1:C:1248:ASN:CA	1:C:1252:GLN:H	1.99	0.74
1:B:768:MET:CA	1:B:776:ASP:N	2.48	0.74
1:B:2178:GLY:O	1:B:2186:LEU:CD2	2.35	0.74
1:D:270:GLN:H	2:D:2801:JYP:C4	1.96	0.74
1:A:78:PRO:C	1:A:81:ASN:O	2.29	0.74
1:C:2589:ILE:CG2	1:B:2583:ASN:OD1	2.33	0.74
1:D:108:ARG:HG3	1:D:108:ARG:NH1	1.95	0.74
1:C:72:PHE:O	1:C:75:ALA:HB3	1.86	0.74
1:C:1226:GLU:O	1:C:1231:GLN:CA	2.35	0.74
1:C:2178:GLY:O	1:C:2186:LEU:CD2	2.35	0.74
1:C:2700:GLU:CD	1:D:2699:GLN:HA	2.13	0.74
1:B:1248:ASN:CA	1:B:1252:GLN:H	1.99	0.74
1:B:2368:PHE:CE2	1:B:2395:HIS:ND1	2.55	0.74
1:A:2285:VAL:O	1:A:2289:LEU:CD1	2.36	0.74
1:A:2368:PHE:CE2	1:A:2395:HIS:ND1	2.55	0.74
1:C:646:PRO:C	1:C:649:GLN:N	2.45	0.74
1:B:62:PRO:HB3	1:B:110:LEU:HD13	1.67	0.74
1:B:104:GLU:C	1:B:106:GLU:H	1.95	0.74
1:B:1634:GLU:O	1:B:1637:PHE:O	2.06	0.74
1:D:44:GLY:H	1:D:50:PRO:HG3	1.51	0.74
1:D:1634:GLU:O	1:D:1637:PHE:O	2.06	0.74
1:D:2239:LYS:NZ	1:D:2677:ARG:NE	2.36	0.74
1:D:2277:SER:O	1:D:2281:PHE:HD2	1.71	0.74
1:D:2559:GLU:OE1	1:D:2562:LEU:HD23	1.70	0.74
1:A:72:PHE:O	1:A:75:ALA:HB3	1.86	0.74
1:A:2618:ARG:HB3	1:A:2618:ARG:CZ	2.16	0.74
1:A:2700:GLU:OE1	1:B:2699:GLN:HG3	1.87	0.74
1:C:1634:GLU:O	1:C:1637:PHE:O	2.06	0.74
1:B:564:GLN:NE2	1:B:578:PHE:HD2	1.84	0.74
1:B:2243:PHE:HE2	1:B:2638:MET:HB3	1.50	0.74
1:D:1248:ASN:CA	1:D:1252:GLN:H	1.99	0.74
1:A:646:PRO:C	1:A:649:GLN:N	2.45	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:504:ARG:HA	1:C:507:GLN:HG2	1.68	0.74
1:B:520:PHE:CD1	1:B:523:LEU:CD1	2.70	0.74
1:A:1226:GLU:O	1:A:1231:GLN:CA	2.35	0.74
1:B:574:ILE:CA	1:B:577:GLN:OE1	2.32	0.74
1:D:760:ASP:O	1:D:763:LEU:N	2.19	0.74
1:D:2285:VAL:O	1:D:2289:LEU:CD1	2.36	0.74
1:D:2368:PHE:CE2	1:D:2395:HIS:ND1	2.55	0.74
1:A:1634:GLU:O	1:A:1637:PHE:O	2.06	0.74
1:A:2277:SER:O	1:A:2281:PHE:HD2	1.70	0.74
1:C:2586:PHE:CA	1:B:2583:ASN:ND2	2.50	0.74
1:D:2272:ASN:CG	1:D:2276:TRP:CZ2	2.63	0.74
1:C:2277:SER:O	1:C:2281:PHE:HD2	1.71	0.74
1:C:2619:ASP:OD1	1:B:2236:GLN:HB3	1.87	0.74
1:B:460:LEU:HD23	1:B:465:ILE:CG2	2.09	0.74
1:D:2365:LYS:CE	1:D:2398:TYR:HB3	2.18	0.74
1:A:68:ALA:C	1:A:100:LYS:HZ1	1.96	0.74
1:A:2009:CYS:O	1:A:2013:SER:CA	2.36	0.74
1:A:2285:VAL:HG23	1:A:2417:LEU:HD13	1.69	0.74
1:C:2365:LYS:CE	1:C:2398:TYR:HB3	2.18	0.74
1:C:2696:ARG:HH11	1:B:2696:ARG:NE	1.86	0.74
1:B:269:ARG:HB3	2:B:2801:JYP:C4	1.94	0.74
1:B:2277:SER:O	1:B:2281:PHE:HD2	1.71	0.74
1:B:2285:VAL:O	1:B:2289:LEU:CD1	2.36	0.74
1:D:1226:GLU:O	1:D:1231:GLN:CA	2.35	0.74
1:C:486:GLY:O	1:C:510:MET:HE1	1.88	0.73
1:C:2239:LYS:HZ2	1:C:2677:ARG:NE	1.86	0.73
1:C:2566:ARG:HB3	1:C:2566:ARG:CZ	2.18	0.73
1:B:78:PRO:C	1:B:81:ASN:O	2.29	0.73
1:B:2009:CYS:O	1:B:2013:SER:CA	2.36	0.73
1:B:2213:PRO:HG3	1:B:2647:LEU:CA	2.06	0.73
1:B:2566:ARG:HB3	1:B:2566:ARG:CZ	2.18	0.73
1:A:520:PHE:CD1	1:A:523:LEU:CD1	2.70	0.73
1:A:564:GLN:NE2	1:A:578:PHE:HD2	1.85	0.73
1:A:568:ARG:O	2:A:2801:JYP:O14	2.07	0.73
1:A:2178:GLY:O	1:A:2186:LEU:CD2	2.35	0.73
1:C:2200:ARG:HD2	1:C:2662:TYR:CD1	2.24	0.73
1:C:2622:ASP:CG	1:C:2628:PHE:CE1	2.61	0.73
1:B:64:ASN:ND2	1:B:106:GLU:OE1	2.22	0.73
1:B:514:ASN:O	1:B:517:LYS:N	2.21	0.73
1:D:514:ASN:O	1:D:517:LYS:N	2.21	0.73
1:D:646:PRO:C	1:D:649:GLN:N	2.45	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:819:TYR:H	1:C:877:GLY:HA3	1.53	0.73
1:B:460:LEU:HD13	1:B:460:LEU:C	2.14	0.73
1:B:2239:LYS:NZ	1:B:2677:ARG:NE	2.36	0.73
1:D:481:VAL:HG11	1:D:559:VAL:HG11	1.70	0.73
1:A:481:VAL:HG11	1:A:559:VAL:HG11	1.70	0.73
1:A:2566:ARG:HB3	1:A:2566:ARG:NH1	2.04	0.73
1:C:2239:LYS:NZ	1:C:2677:ARG:NE	2.36	0.73
1:B:2388:LEU:CD2	1:B:2388:LEU:H	1.93	0.73
1:D:2683:LEU:C	1:D:2684:VAL:HG22	2.11	0.73
1:A:104:GLU:C	1:A:106:GLU:H	1.95	0.73
1:A:486:GLY:O	1:A:510:MET:HE1	1.88	0.73
1:A:817:ASP:CA	1:A:878:PHE:CA	2.67	0.73
1:A:2365:LYS:CE	1:A:2398:TYR:HB3	2.18	0.73
1:C:2368:PHE:CE2	1:C:2395:HIS:ND1	2.55	0.73
1:B:270:GLN:HE21	1:B:271:SER:H	1.32	0.73
1:B:486:GLY:O	1:B:510:MET:HE1	1.88	0.73
1:B:2622:ASP:CG	1:B:2628:PHE:CE1	2.61	0.73
1:D:2200:ARG:HD2	1:D:2662:TYR:CD1	2.24	0.73
1:A:64:ASN:ND2	1:A:106:GLU:OE1	2.22	0.73
1:A:460:LEU:HD13	1:A:460:LEU:C	2.14	0.73
1:A:514:ASN:O	1:A:517:LYS:N	2.21	0.73
1:C:85:ASP:OD1	1:C:85:ASP:N	2.16	0.73
1:C:2285:VAL:O	1:C:2289:LEU:CD1	2.36	0.73
1:C:2345:ILE:O	1:C:2348:VAL:HG12	1.86	0.73
1:C:2425:GLU:HA	1:C:2428:LEU:HB3	1.71	0.73
1:B:646:PRO:C	1:B:649:GLN:N	2.45	0.73
1:B:817:ASP:CA	1:B:878:PHE:CA	2.67	0.73
1:B:2354:LEU:C	1:B:2354:LEU:HD12	2.14	0.73
1:B:2425:GLU:HA	1:B:2428:LEU:HB3	1.71	0.73
1:D:547:ALA:HB3	1:D:548:PRO:HD2	1.68	0.73
1:D:2372:PHE:CE2	1:D:2391:GLU:HG3	2.24	0.73
1:C:104:GLU:C	1:C:106:GLU:H	1.95	0.73
1:C:460:LEU:HD13	1:C:460:LEU:C	2.13	0.73
1:C:2559:GLU:OE1	1:C:2562:LEU:HD23	1.70	0.73
1:B:2566:ARG:HB3	1:B:2566:ARG:NH1	2.04	0.73
1:D:64:ASN:ND2	1:D:106:GLU:OE1	2.22	0.73
1:A:2425:GLU:HA	1:A:2428:LEU:HB3	1.71	0.73
1:A:2566:ARG:HB3	1:A:2566:ARG:CZ	2.18	0.73
1:A:2699:GLN:HA	1:D:2700:GLU:CD	2.12	0.73
1:C:509:LEU:HA	1:C:512:GLU:HB3	1.71	0.73
1:C:568:ARG:O	2:C:2801:JYP:O14	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:817:ASP:CA	1:C:878:PHE:CA	2.67	0.73
1:C:2566:ARG:HB3	1:C:2566:ARG:NH1	2.04	0.73
1:C:2623:ASN:CG	1:B:2677:ARG:NH2	2.45	0.73
1:B:514:ASN:OD1	1:B:516:LEU:HD11	1.81	0.73
1:B:2200:ARG:HD2	1:B:2662:TYR:CD1	2.24	0.73
1:D:72:PHE:CD1	1:D:93:HIS:CB	2.60	0.73
1:D:509:LEU:HA	1:D:512:GLU:HB3	1.71	0.73
1:D:819:TYR:H	1:D:877:GLY:HA3	1.53	0.73
1:D:2009:CYS:O	1:D:2013:SER:CA	2.36	0.73
1:D:2365:LYS:NZ	1:D:2368:PHE:HD2	1.83	0.73
1:A:78:PRO:HA	1:A:81:ASN:O	1.89	0.73
1:C:443:LEU:HD22	1:C:443:LEU:C	2.14	0.73
1:C:514:ASN:O	1:C:517:LYS:N	2.22	0.73
1:C:2009:CYS:O	1:C:2013:SER:CA	2.36	0.73
1:B:2268:TRP:O	1:B:2272:ASN:ND2	2.22	0.73
1:A:270:GLN:HE21	1:A:271:SER:H	1.32	0.73
1:A:2354:LEU:C	1:A:2354:LEU:HD12	2.14	0.73
1:A:2622:ASP:CG	1:A:2628:PHE:CE1	2.61	0.73
1:A:2715:GLN:NE2	1:B:2713:SER:HB3	2.00	0.73
1:B:819:TYR:H	1:B:877:GLY:HA3	1.53	0.73
1:A:819:TYR:H	1:A:877:GLY:HA3	1.53	0.72
1:A:2372:PHE:CE2	1:A:2391:GLU:HG3	2.24	0.72
1:A:2725:GLU:OE1	1:B:2720:LYS:HD3	1.88	0.72
1:C:460:LEU:HD23	1:C:465:ILE:CG2	2.09	0.72
1:A:73:TRP:O	1:A:74:LYS:C	2.32	0.72
1:A:2213:PRO:HD3	1:A:2647:LEU:HB2	0.73	0.72
1:C:64:ASN:ND2	1:C:106:GLU:OE1	2.22	0.72
1:C:2372:PHE:CE2	1:C:2391:GLU:HG3	2.24	0.72
1:B:62:PRO:CB	1:B:110:LEU:HD13	2.20	0.72
1:D:62:PRO:CB	1:D:110:LEU:HD13	2.20	0.72
1:D:68:ALA:C	1:D:100:LYS:HZ3	1.97	0.72
1:D:78:PRO:HA	1:D:81:ASN:O	1.89	0.72
1:D:2268:TRP:O	1:D:2272:ASN:ND2	2.22	0.72
1:D:2354:LEU:C	1:D:2354:LEU:HD12	2.14	0.72
1:D:2425:GLU:HA	1:D:2428:LEU:HB3	1.71	0.72
1:A:62:PRO:CB	1:A:110:LEU:HD13	2.20	0.72
1:A:460:LEU:HD23	1:A:465:ILE:CG2	2.09	0.72
1:A:2411:PHE:O	1:A:2413:TYR:N	2.22	0.72
1:A:2649:LYS:HA	1:A:2649:LYS:CE	2.18	0.72
1:B:2432:LYS:C	1:B:2434:VAL:N	2.47	0.72
1:D:443:LEU:C	1:D:443:LEU:HD22	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:522:LEU:HD13	1:D:522:LEU:C	2.14	0.72
1:D:2566:ARG:HB3	1:D:2566:ARG:CZ	2.18	0.72
1:A:2200:ARG:HD2	1:A:2662:TYR:CD1	2.24	0.72
1:A:2268:TRP:O	1:A:2272:ASN:ND2	2.22	0.72
1:A:2399:LEU:HD22	1:A:2399:LEU:C	2.15	0.72
1:C:270:GLN:H	2:C:2801:JYP:C4	1.96	0.72
1:C:2354:LEU:HD12	1:C:2354:LEU:C	2.14	0.72
1:B:78:PRO:HA	1:B:81:ASN:O	1.89	0.72
1:D:2213:PRO:HD3	1:D:2647:LEU:HB2	0.73	0.72
1:D:2399:LEU:HD22	1:D:2399:LEU:C	2.15	0.72
1:A:443:LEU:C	1:A:443:LEU:HD22	2.14	0.72
1:A:2272:ASN:CG	1:A:2276:TRP:CZ2	2.63	0.72
1:A:2350:LEU:O	1:A:2351:GLN:HB2	1.90	0.72
1:C:62:PRO:CB	1:C:110:LEU:HD13	2.20	0.72
1:B:514:ASN:O	1:B:515:ILE:C	2.32	0.72
1:B:522:LEU:HD13	1:B:522:LEU:C	2.14	0.72
1:B:568:ARG:O	2:B:2801:JYP:O14	2.07	0.72
1:B:2241:ASN:N	1:B:2241:ASN:OD1	2.22	0.72
1:B:2549:VAL:CG2	1:B:2574:PHE:HA	2.20	0.72
1:D:817:ASP:CA	1:D:878:PHE:CA	2.67	0.72
1:D:1404:ASP:O	1:D:1407:VAL:N	2.15	0.72
1:D:2239:LYS:CD	1:D:2240:ILE:HG13	2.20	0.72
1:D:2566:ARG:HB3	1:D:2566:ARG:NH1	2.04	0.72
1:A:453:LEU:HA	1:A:456:ILE:HD12	1.71	0.72
1:C:453:LEU:HA	1:C:456:ILE:HD12	1.71	0.72
1:C:2411:PHE:O	1:C:2413:TYR:N	2.22	0.72
1:C:2573:PHE:O	1:C:2574:PHE:C	2.29	0.72
1:C:2649:LYS:HA	1:C:2649:LYS:CE	2.18	0.72
1:B:509:LEU:HA	1:B:512:GLU:HB3	1.71	0.72
1:B:816:ILE:O	1:B:878:PHE:N	2.23	0.72
1:B:2365:LYS:CE	1:B:2398:TYR:HB3	2.18	0.72
1:D:73:TRP:O	1:D:74:LYS:C	2.32	0.72
1:D:488:THR:CB	1:D:559:VAL:HG13	2.19	0.72
1:A:2345:ILE:C	1:A:2348:VAL:CG1	2.57	0.72
1:C:2241:ASN:OD1	1:C:2241:ASN:N	2.22	0.72
1:B:443:LEU:C	1:B:443:LEU:HD22	2.14	0.72
1:B:488:THR:CB	1:B:559:VAL:HG13	2.19	0.72
1:D:453:LEU:HA	1:D:456:ILE:HD12	1.71	0.72
1:D:2549:VAL:CG2	1:D:2574:PHE:HA	2.20	0.72
1:A:1979:ASN:O	1:A:1980:HIS:C	2.32	0.72
1:C:108:ARG:HG3	1:C:108:ARG:NH1	1.95	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:481:VAL:HG11	1:C:559:VAL:HG11	1.70	0.72
1:C:564:GLN:HE22	1:C:578:PHE:HD2	1.33	0.72
1:C:2268:TRP:O	1:C:2272:ASN:ND2	2.22	0.72
1:B:2350:LEU:O	1:B:2351:GLN:HB2	1.90	0.72
1:B:2649:LYS:HA	1:B:2649:LYS:CE	2.18	0.72
1:D:486:GLY:O	1:D:510:MET:HE1	1.88	0.72
1:D:2649:LYS:HA	1:D:2649:LYS:CE	2.18	0.72
1:A:74:LYS:HA	1:A:74:LYS:CE	2.20	0.72
1:A:108:ARG:HG3	1:A:108:ARG:NH1	1.95	0.72
1:A:488:THR:CB	1:A:559:VAL:HG13	2.19	0.72
1:A:509:LEU:HA	1:A:512:GLU:HB3	1.71	0.72
1:A:2239:LYS:CD	1:A:2240:ILE:HG13	2.20	0.72
1:C:488:THR:CB	1:C:559:VAL:HG13	2.19	0.72
1:C:1979:ASN:O	1:C:1980:HIS:C	2.32	0.72
1:C:2239:LYS:CD	1:C:2240:ILE:HG13	2.20	0.72
1:C:2547:GLY:HA2	1:D:2546:GLY:H	1.54	0.72
1:B:74:LYS:HA	1:B:74:LYS:CE	2.20	0.72
1:B:2576:MET:HE2	1:B:2580:ILE:HG13	1.62	0.72
1:D:269:ARG:HB3	2:D:2801:JYP:C4	1.94	0.72
1:D:2285:VAL:HG23	1:D:2417:LEU:HD13	1.69	0.72
1:D:2411:PHE:O	1:D:2413:TYR:N	2.22	0.72
1:A:2549:VAL:CG2	1:A:2574:PHE:HA	2.20	0.72
1:B:2213:PRO:HD3	1:B:2647:LEU:HB2	0.73	0.72
1:D:2573:PHE:O	1:D:2574:PHE:C	2.29	0.72
1:A:2239:LYS:NZ	1:A:2677:ARG:NE	2.36	0.71
1:C:1619:VAL:C	1:C:1621:ALA:N	2.41	0.71
1:C:2560:GLU:HG2	1:C:2563:PHE:CE2	2.16	0.71
1:C:2586:PHE:HE1	1:B:2583:ASN:HB3	1.48	0.71
1:B:481:VAL:HG11	1:B:559:VAL:HG11	1.70	0.71
1:B:2288:ASN:HD21	1:B:2417:LEU:CB	1.91	0.71
1:B:2356:LEU:C	1:B:2356:LEU:HD12	2.15	0.71
1:B:2401:ILE:CB	1:B:2416:LEU:HD22	2.20	0.71
1:B:2411:PHE:O	1:B:2413:TYR:N	2.22	0.71
1:D:460:LEU:HD13	1:D:460:LEU:C	2.14	0.71
1:D:816:ILE:O	1:D:878:PHE:N	2.23	0.71
1:A:522:LEU:HD13	1:A:522:LEU:C	2.14	0.71
1:A:522:LEU:CD2	1:A:553:CYS:SG	2.78	0.71
1:A:816:ILE:O	1:A:878:PHE:N	2.23	0.71
1:C:2213:PRO:HD3	1:C:2647:LEU:HB2	0.73	0.71
1:C:2732:ARG:HB3	1:C:2732:ARG:NH1	2.03	0.71
1:B:453:LEU:HA	1:B:456:ILE:HD12	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:LEU:HA	1:B:521:LYS:HZ3	1.53	0.71
1:B:2272:ASN:CG	1:B:2276:TRP:CZ2	2.63	0.71
1:D:104:GLU:C	1:D:106:GLU:H	1.95	0.71
1:C:78:PRO:HA	1:C:81:ASN:O	1.89	0.71
1:C:2399:LEU:HD22	1:C:2399:LEU:C	2.15	0.71
1:C:2706:MET:O	1:B:2707:LYS:HE2	1.90	0.71
1:D:263:PHE:HD2	1:D:265:ARG:HH21	1.37	0.71
1:D:1979:ASN:O	1:D:1980:HIS:C	2.32	0.71
1:D:2356:LEU:C	1:D:2356:LEU:HD12	2.15	0.71
1:D:2694:GLU:H	1:D:2698:LEU:HD12	1.55	0.71
1:B:68:ALA:C	1:B:100:LYS:HZ3	1.97	0.71
1:D:522:LEU:CD2	1:D:553:CYS:SG	2.78	0.71
1:D:2288:ASN:HB2	1:D:2413:TYR:CB	2.19	0.71
1:A:443:LEU:HD22	1:A:443:LEU:O	1.91	0.71
1:C:574:ILE:CA	1:C:577:GLN:OE1	2.32	0.71
1:B:2399:LEU:HD22	1:B:2399:LEU:C	2.15	0.71
1:D:74:LYS:HA	1:D:74:LYS:CE	2.20	0.71
1:D:2401:ILE:CB	1:D:2416:LEU:HD22	2.20	0.71
1:A:2401:ILE:CB	1:A:2416:LEU:HD22	2.20	0.71
1:A:2699:GLN:HG3	1:D:2700:GLU:OE1	1.91	0.71
1:C:73:TRP:O	1:C:74:LYS:C	2.31	0.71
1:C:74:LYS:HA	1:C:74:LYS:CE	2.20	0.71
1:C:2350:LEU:O	1:C:2351:GLN:HB2	1.90	0.71
1:C:2368:PHE:CE2	1:C:2395:HIS:CE1	2.76	0.71
1:C:2432:LYS:C	1:C:2434:VAL:N	2.47	0.71
1:B:443:LEU:HD22	1:B:443:LEU:O	1.91	0.71
1:B:2345:ILE:O	1:B:2348:VAL:HG12	1.86	0.71
1:D:2348:VAL:CG2	1:D:2353:THR:HG22	2.21	0.71
1:D:2365:LYS:HZ1	1:D:2395:HIS:HB3	1.55	0.71
1:C:2356:LEU:C	1:C:2356:LEU:HD12	2.15	0.71
1:B:2368:PHE:CE2	1:B:2395:HIS:CE1	2.76	0.71
1:B:2372:PHE:CE2	1:B:2391:GLU:HG3	2.24	0.71
1:A:2715:GLN:CD	1:B:2713:SER:CB	2.62	0.71
1:C:522:LEU:HD13	1:C:522:LEU:C	2.14	0.71
1:C:2272:ASN:CG	1:C:2276:TRP:CZ2	2.63	0.71
1:C:2549:VAL:CG2	1:C:2574:PHE:HA	2.20	0.71
1:B:2239:LYS:CD	1:B:2240:ILE:HG13	2.20	0.71
1:D:568:ARG:O	2:D:2801:JYP:O14	2.07	0.71
1:A:2271:ARG:HH12	1:A:2272:ASN:CG	1.88	0.71
1:C:816:ILE:O	1:C:878:PHE:N	2.23	0.71
1:C:2348:VAL:CG2	1:C:2353:THR:HG22	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:GLN:H	2:B:2801:JYP:C4	1.96	0.71
1:B:554:ARG:NE	1:B:554:ARG:O	2.24	0.71
1:B:2649:LYS:C	1:B:2650:VAL:CG2	2.54	0.71
1:A:237:GLY:O	1:A:283:GLU:HG3	1.91	0.71
1:A:2434:VAL:HG13	1:A:2589:ILE:CD1	2.21	0.71
1:D:460:LEU:HD23	1:D:465:ILE:CG2	2.09	0.71
1:D:564:GLN:CB	1:D:574:ILE:CD1	2.66	0.71
1:D:2732:ARG:HB3	1:D:2732:ARG:NH1	2.03	0.71
1:A:263:PHE:HD2	1:A:265:ARG:HH21	1.37	0.70
1:A:2432:LYS:C	1:A:2434:VAL:N	2.47	0.70
1:C:2407:PHE:H	1:C:2408:VAL:HG22	1.55	0.70
1:C:2434:VAL:HG13	1:C:2589:ILE:CD1	2.21	0.70
1:B:1979:ASN:O	1:B:1980:HIS:C	2.32	0.70
1:D:2241:ASN:OD1	1:D:2241:ASN:N	2.22	0.70
1:D:2618:ARG:HD2	1:D:2628:PHE:CZ	2.26	0.70
1:D:2624:LYS:HB2	1:D:2624:LYS:NZ	2.06	0.70
1:D:2716:LEU:H	1:D:2716:LEU:CD2	1.93	0.70
1:A:2407:PHE:H	1:A:2408:VAL:HG22	1.55	0.70
1:C:2624:LYS:HB2	1:C:2624:LYS:NZ	2.06	0.70
1:B:237:GLY:O	1:B:283:GLU:HG3	1.91	0.70
1:B:522:LEU:CD2	1:B:553:CYS:SG	2.78	0.70
1:B:564:GLN:CB	1:B:574:ILE:CD1	2.66	0.70
1:B:2434:VAL:HG13	1:B:2589:ILE:CD1	2.21	0.70
1:D:2350:LEU:O	1:D:2351:GLN:HB2	1.90	0.70
1:A:574:ILE:CA	1:A:577:GLN:OE1	2.32	0.70
1:A:1961:ALA:O	1:A:1965:ILE:N	2.22	0.70
1:A:2546:GLY:H	1:D:2547:GLY:HA2	1.56	0.70
1:C:2191:LYS:O	1:C:2212:VAL:CG2	2.39	0.70
1:C:2694:GLU:H	1:C:2698:LEU:HD12	1.55	0.70
1:B:1313:GLN:O	1:B:1317:LYS:CA	2.40	0.70
1:B:2345:ILE:C	1:B:2348:VAL:CG1	2.57	0.70
1:B:2735:LEU:C	1:B:2735:LEU:HD13	2.16	0.70
1:D:237:GLY:O	1:D:283:GLU:HG3	1.91	0.70
1:D:443:LEU:HD22	1:D:443:LEU:O	1.91	0.70
1:D:554:ARG:O	1:D:554:ARG:NE	2.24	0.70
1:A:2732:ARG:HH11	1:A:2732:ARG:CB	2.03	0.70
1:C:2288:ASN:HD21	1:C:2417:LEU:CB	1.91	0.70
1:D:2448:ALA:HB2	1:D:2581:VAL:HG21	1.74	0.70
1:A:554:ARG:NE	1:A:554:ARG:O	2.24	0.70
1:A:646:PRO:C	1:A:648:THR:H	1.72	0.70
1:C:522:LEU:CD2	1:C:553:CYS:SG	2.78	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:554:ARG:NE	1:C:554:ARG:O	2.24	0.70
1:C:2239:LYS:HZ2	1:C:2677:ARG:HE	1.36	0.70
1:C:2349:GLY:O	1:C:2352:PRO:CD	2.40	0.70
1:C:2612:PHE:CD2	1:C:2638:MET:SD	2.85	0.70
1:B:2191:LYS:O	1:B:2212:VAL:CG2	2.39	0.70
1:B:2387:VAL:HG13	1:B:2388:LEU:HD23	1.72	0.70
1:B:2694:GLU:H	1:B:2698:LEU:HD12	1.56	0.70
1:D:2434:VAL:HG13	1:D:2589:ILE:CD1	2.21	0.70
1:A:2211:PRO:O	1:A:2647:LEU:HD21	1.89	0.70
1:A:2356:LEU:C	1:A:2356:LEU:HD12	2.15	0.70
1:A:2368:PHE:CE2	1:A:2395:HIS:CE1	2.76	0.70
1:A:2694:GLU:H	1:A:2698:LEU:HD12	1.55	0.70
1:A:2735:LEU:HD13	1:A:2735:LEU:C	2.16	0.70
1:C:443:LEU:HD22	1:C:443:LEU:O	1.91	0.70
1:C:2448:ALA:HB2	1:C:2581:VAL:HG21	1.74	0.70
1:A:2618:ARG:HD2	1:A:2628:PHE:CZ	2.26	0.70
1:C:237:GLY:O	1:C:283:GLU:HG3	1.91	0.70
1:C:1313:GLN:O	1:C:1317:LYS:CA	2.40	0.70
1:C:2447:LEU:HD12	1:D:2427:LEU:HD21	1.74	0.70
1:B:88:LEU:C	1:B:92:LEU:HD11	2.01	0.70
1:D:2407:PHE:H	1:D:2408:VAL:HG22	1.55	0.70
1:D:2694:GLU:N	1:D:2698:LEU:HD12	2.07	0.70
1:A:2622:ASP:CB	1:A:2628:PHE:CG	2.74	0.70
1:C:523:LEU:HD22	1:C:523:LEU:C	2.17	0.70
1:C:2618:ARG:HD2	1:C:2628:PHE:CZ	2.26	0.70
1:C:2707:LYS:HE2	1:D:2706:MET:C	2.17	0.70
1:D:1313:GLN:O	1:D:1317:LYS:CA	2.40	0.70
1:A:2241:ASN:OD1	1:A:2241:ASN:N	2.22	0.70
1:A:2288:ASN:HB2	1:A:2413:TYR:CB	2.19	0.70
1:A:2624:LYS:HB2	1:A:2624:LYS:NZ	2.06	0.70
1:A:2696:ARG:NH2	1:B:2696:ARG:NH2	2.35	0.70
1:C:509:LEU:C	1:C:512:GLU:HB3	2.17	0.70
1:C:2401:ILE:CB	1:C:2416:LEU:HD22	2.20	0.70
1:B:2348:VAL:HG12	1:B:2353:THR:HB	1.72	0.70
1:B:2619:ASP:OD2	1:B:2619:ASP:N	2.25	0.70
1:B:2622:ASP:CB	1:B:2628:PHE:CG	2.74	0.70
1:B:2732:ARG:HH11	1:B:2732:ARG:CB	2.03	0.70
1:D:1961:ALA:O	1:D:1965:ILE:N	2.22	0.70
1:D:2191:LYS:O	1:D:2212:VAL:CG2	2.39	0.70
1:A:2345:ILE:CD1	1:A:2356:LEU:HD23	2.15	0.70
1:A:2345:ILE:HG23	1:A:2348:VAL:CG1	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2628:PHE:O	1:A:2631:HIS:ND1	2.25	0.70
1:C:2583:ASN:HB2	1:D:2586:PHE:CZ	2.27	0.70
1:C:2677:ARG:NH2	1:D:2623:ASN:ND2	2.39	0.70
1:B:85:ASP:N	1:B:85:ASP:OD1	2.16	0.70
1:B:2624:LYS:HB2	1:B:2624:LYS:NZ	2.06	0.70
1:A:2694:GLU:N	1:A:2698:LEU:HD12	2.07	0.69
1:C:92:LEU:HD13	1:C:92:LEU:N	2.07	0.69
1:C:2285:VAL:HG23	1:C:2417:LEU:HD13	1.69	0.69
1:C:2618:ARG:HB3	1:C:2618:ARG:CZ	2.16	0.69
1:B:263:PHE:HD2	1:B:265:ARG:HH21	1.37	0.69
1:B:523:LEU:C	1:B:523:LEU:HD22	2.17	0.69
1:B:2694:GLU:N	1:B:2698:LEU:HD12	2.07	0.69
1:D:509:LEU:C	1:D:512:GLU:HB3	2.17	0.69
1:D:2619:ASP:OD2	1:D:2619:ASP:N	2.25	0.69
1:A:275:ALA:CB	2:A:2801:JYP:N4	2.46	0.69
1:A:523:LEU:HD22	1:A:523:LEU:C	2.17	0.69
1:A:2387:VAL:HG13	1:A:2388:LEU:HD23	1.73	0.69
1:A:2612:PHE:CD2	1:A:2638:MET:SD	2.85	0.69
1:C:2622:ASP:CB	1:C:2628:PHE:CG	2.74	0.69
1:B:2448:ALA:HB2	1:B:2581:VAL:HG21	1.74	0.69
1:D:574:ILE:CA	1:D:577:GLN:OE1	2.32	0.69
1:D:2612:PHE:CD2	1:D:2638:MET:SD	2.85	0.69
1:A:92:LEU:HD13	1:A:92:LEU:N	2.07	0.69
1:A:2365:LYS:CE	1:A:2395:HIS:O	2.40	0.69
1:A:2365:LYS:HZ1	1:A:2395:HIS:HB3	1.57	0.69
1:A:2433:SER:CB	1:A:2593:PHE:CE1	2.59	0.69
1:C:2365:LYS:HZ1	1:C:2395:HIS:HB3	1.57	0.69
1:C:2387:VAL:HG13	1:C:2388:LEU:HD23	1.73	0.69
1:B:69:GLN:NE2	1:B:100:LYS:CD	2.24	0.69
1:B:2191:LYS:O	1:B:2192:HIS:CB	2.40	0.69
1:C:2428:LEU:HD13	1:C:2428:LEU:C	2.18	0.69
1:B:2428:LEU:HD13	1:B:2428:LEU:C	2.18	0.69
1:B:2732:ARG:HB3	1:B:2732:ARG:NH1	2.03	0.69
1:A:74:LYS:HA	1:A:74:LYS:HZ1	1.55	0.69
1:A:509:LEU:C	1:A:512:GLU:HB3	2.17	0.69
1:A:2191:LYS:O	1:A:2212:VAL:CG2	2.39	0.69
1:A:2706:MET:O	1:D:2707:LYS:CE	2.40	0.69
1:C:68:ALA:C	1:C:100:LYS:HZ3	1.99	0.69
1:C:263:PHE:HD2	1:C:265:ARG:HH21	1.37	0.69
1:C:514:ASN:O	1:C:515:ILE:C	2.32	0.69
1:C:2546:GLY:H	1:B:2547:GLY:HA2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2345:ILE:HG23	1:B:2348:VAL:CG1	2.22	0.69
1:D:2190:ALA:C	1:D:2192:HIS:N	2.48	0.69
1:D:2268:TRP:O	1:D:2271:ARG:HD3	1.93	0.69
1:A:564:GLN:CB	1:A:574:ILE:CD1	2.66	0.69
1:A:1313:GLN:O	1:A:1317:LYS:CA	2.40	0.69
1:A:2423:ARG:HD2	1:A:2423:ARG:C	2.18	0.69
1:C:2211:PRO:O	1:C:2647:LEU:HD21	1.89	0.69
1:C:2268:TRP:O	1:C:2271:ARG:HD3	1.93	0.69
1:C:2735:LEU:C	1:C:2735:LEU:HD13	2.16	0.69
1:D:2622:ASP:CB	1:D:2628:PHE:CG	2.74	0.69
1:A:68:ALA:HB1	1:A:96:ALA:HA	1.74	0.69
1:A:2276:TRP:HB3	1:A:2367:ILE:CD1	2.23	0.69
1:C:453:LEU:HD23	1:C:453:LEU:N	2.08	0.69
1:B:68:ALA:HB1	1:B:96:ALA:HA	1.74	0.69
1:B:89:LEU:O	1:B:92:LEU:HD22	1.87	0.69
1:B:92:LEU:HD13	1:B:92:LEU:N	2.07	0.69
1:B:2407:PHE:H	1:B:2408:VAL:HG22	1.55	0.69
1:B:2423:ARG:HD2	1:B:2423:ARG:C	2.18	0.69
1:B:2618:ARG:HD2	1:B:2628:PHE:CZ	2.26	0.69
1:D:520:PHE:CD1	1:D:523:LEU:CD1	2.70	0.69
1:D:2428:LEU:C	1:D:2428:LEU:HD13	2.18	0.69
1:A:2428:LEU:C	1:A:2428:LEU:HD13	2.18	0.69
1:A:2448:ALA:HB2	1:A:2581:VAL:HG21	1.74	0.69
1:A:2696:ARG:NH2	1:B:2696:ARG:HH22	1.91	0.69
1:A:2713:SER:CB	1:D:2715:GLN:HE21	2.01	0.69
1:A:2730:LYS:HD3	1:A:2730:LYS:C	2.18	0.69
1:A:2732:ARG:HB3	1:A:2732:ARG:NH1	2.03	0.69
1:C:275:ALA:CB	2:C:2801:JYP:N4	2.46	0.69
1:C:2285:VAL:HG23	1:C:2288:ASN:HD21	1.57	0.69
1:C:2345:ILE:HG23	1:C:2348:VAL:CG1	2.22	0.69
1:C:2399:LEU:O	1:C:2402:CYS:HB2	1.92	0.69
1:B:2276:TRP:HB3	1:B:2367:ILE:CD1	2.23	0.69
1:D:85:ASP:OD1	1:D:85:ASP:N	2.16	0.69
1:D:92:LEU:N	1:D:92:LEU:HD13	2.07	0.69
1:D:453:LEU:CA	1:D:521:LYS:HZ2	2.02	0.69
1:D:523:LEU:C	1:D:523:LEU:HD22	2.17	0.69
1:D:2285:VAL:HG23	1:D:2288:ASN:HD21	1.57	0.69
1:D:2399:LEU:O	1:D:2402:CYS:HB2	1.92	0.69
1:A:270:GLN:HE22	1:A:271:SER:H	1.37	0.69
1:A:2189:TYR:C	1:A:2192:HIS:H	2.00	0.69
1:C:2694:GLU:N	1:C:2698:LEU:HD12	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:441:ARG:CZ	1:B:441:ARG:HB2	2.23	0.69
1:B:2239:LYS:HZ3	1:B:2677:ARG:CD	2.04	0.69
1:B:2612:PHE:CD2	1:B:2638:MET:SD	2.85	0.69
1:D:2276:TRP:HB3	1:D:2367:ILE:CD1	2.23	0.69
1:D:2368:PHE:CE2	1:D:2395:HIS:CE1	2.76	0.69
1:D:2387:VAL:HG13	1:D:2388:LEU:HD23	1.73	0.69
1:A:2243:PHE:HE2	1:A:2638:MET:HB3	1.50	0.69
1:A:2560:GLU:CG	1:A:2563:PHE:HE2	1.80	0.69
1:A:2649:LYS:HA	1:A:2649:LYS:HZ2	1.54	0.69
1:C:2427:LEU:HD11	1:B:2447:LEU:HD13	1.74	0.69
1:C:2619:ASP:N	1:C:2619:ASP:OD2	2.25	0.69
1:B:514:ASN:HB3	1:B:517:LYS:N	2.07	0.69
1:B:2349:GLY:O	1:B:2352:PRO:CD	2.40	0.69
1:B:2628:PHE:O	1:B:2631:HIS:ND1	2.25	0.69
1:D:448:ASP:HA	1:D:451:LYS:HD2	1.75	0.69
1:D:2189:TYR:C	1:D:2192:HIS:H	2.00	0.69
1:D:2345:ILE:O	1:D:2348:VAL:HG12	1.86	0.69
1:D:2624:LYS:HB2	1:D:2624:LYS:HZ3	1.58	0.69
1:A:2348:VAL:CG2	1:A:2353:THR:HG22	2.21	0.68
1:C:270:GLN:O	1:C:272:ALA:C	2.37	0.68
1:C:2181:ASP:O	1:C:2183:ASP:OD1	2.11	0.68
1:C:2288:ASN:HB2	1:C:2413:TYR:CB	2.19	0.68
1:C:2365:LYS:CE	1:C:2395:HIS:O	2.40	0.68
1:B:73:TRP:O	1:B:74:LYS:C	2.32	0.68
1:B:1961:ALA:O	1:B:1965:ILE:N	2.22	0.68
1:B:2365:LYS:CE	1:B:2395:HIS:O	2.40	0.68
1:B:2558:LYS:CD	1:B:2560:GLU:CG	2.71	0.68
1:B:2560:GLU:CG	1:B:2563:PHE:HE2	1.79	0.68
1:B:2730:LYS:C	1:B:2730:LYS:HD3	2.18	0.68
1:D:2345:ILE:HG23	1:D:2348:VAL:CG1	2.22	0.68
1:A:2239:LYS:HG3	1:A:2613:ILE:CG2	2.24	0.68
1:A:2349:GLY:O	1:A:2352:PRO:CD	2.40	0.68
1:C:441:ARG:HB2	1:C:441:ARG:CZ	2.23	0.68
1:B:270:GLN:O	1:B:272:ALA:C	2.37	0.68
1:B:509:LEU:C	1:B:512:GLU:HB3	2.17	0.68
1:B:2348:VAL:CG2	1:B:2353:THR:HG22	2.21	0.68
1:D:89:LEU:O	1:D:92:LEU:HD22	1.87	0.68
1:D:514:ASN:HB3	1:D:517:LYS:N	2.07	0.68
1:D:2365:LYS:CE	1:D:2395:HIS:O	2.40	0.68
1:A:453:LEU:O	1:A:521:LYS:HD2	1.94	0.68
1:A:2181:ASP:O	1:A:2183:ASP:OD1	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2619:ASP:OD2	1:A:2619:ASP:N	2.25	0.68
1:C:68:ALA:HB1	1:C:96:ALA:HA	1.74	0.68
1:C:2271:ARG:HH12	1:C:2272:ASN:ND2	1.89	0.68
1:C:2560:GLU:C	1:C:2563:PHE:HB2	2.16	0.68
1:B:2189:TYR:C	1:B:2192:HIS:H	2.00	0.68
1:D:68:ALA:HB1	1:D:96:ALA:HA	1.74	0.68
1:D:453:LEU:O	1:D:521:LYS:HD2	1.94	0.68
1:D:2735:LEU:HD13	1:D:2735:LEU:C	2.16	0.68
1:A:2560:GLU:C	1:A:2563:PHE:HB2	2.16	0.68
1:A:2623:ASN:OD1	1:D:2677:ARG:CD	2.38	0.68
1:C:2240:ILE:N	1:C:2240:ILE:HD12	2.08	0.68
1:B:2399:LEU:O	1:B:2402:CYS:HB2	1.92	0.68
1:B:2573:PHE:O	1:B:2574:PHE:C	2.29	0.68
1:D:103:ASN:HA	1:D:106:GLU:CD	2.19	0.68
1:D:441:ARG:CZ	1:D:441:ARG:HB2	2.23	0.68
1:D:2730:LYS:HD3	1:D:2730:LYS:C	2.18	0.68
1:A:514:ASN:HB3	1:A:517:LYS:N	2.07	0.68
1:A:2559:GLU:OE1	1:A:2562:LEU:HD23	1.70	0.68
1:C:2730:LYS:C	1:C:2730:LYS:HD3	2.18	0.68
1:B:2288:ASN:HB2	1:B:2413:TYR:CB	2.19	0.68
1:B:2560:GLU:C	1:B:2563:PHE:HB2	2.17	0.68
1:D:2211:PRO:O	1:D:2647:LEU:HD21	1.89	0.68
1:A:2268:TRP:O	1:A:2271:ARG:HD3	1.93	0.68
1:A:2285:VAL:HG23	1:A:2288:ASN:HD21	1.57	0.68
1:A:2288:ASN:HD21	1:A:2417:LEU:CB	1.91	0.68
1:A:2425:GLU:C	1:A:2428:LEU:HB3	2.19	0.68
1:C:453:LEU:O	1:C:521:LYS:HD2	1.94	0.68
1:B:646:PRO:O	1:B:650:GLU:N	2.24	0.68
1:B:2240:ILE:N	1:B:2240:ILE:HD12	2.08	0.68
1:D:2213:PRO:HG3	1:D:2647:LEU:CA	2.06	0.68
1:D:2732:ARG:HH11	1:D:2732:ARG:CB	2.03	0.68
1:A:2573:PHE:O	1:A:2574:PHE:C	2.29	0.68
1:C:2189:TYR:C	1:C:2192:HIS:H	2.00	0.68
1:C:2276:TRP:HB3	1:C:2367:ILE:CD1	2.23	0.68
1:C:2655:GLU:OE1	1:C:2655:GLU:N	2.18	0.68
1:B:2268:TRP:O	1:B:2271:ARG:HD3	1.93	0.68
1:D:2181:ASP:O	1:D:2183:ASP:OD1	2.11	0.68
1:D:646:PRO:O	1:D:650:GLU:N	2.24	0.68
1:A:2240:ILE:N	1:A:2240:ILE:HD12	2.08	0.68
1:D:514:ASN:O	1:D:515:ILE:C	2.32	0.68
1:A:2558:LYS:CD	1:A:2560:GLU:CG	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:103:ASN:HA	1:C:106:GLU:CD	2.19	0.68
1:C:520:PHE:CD1	1:C:523:LEU:CD1	2.70	0.68
1:B:453:LEU:O	1:B:521:LYS:HD2	1.94	0.68
1:B:453:LEU:N	1:B:453:LEU:HD23	2.08	0.68
1:B:2181:ASP:O	1:B:2183:ASP:OD1	2.11	0.68
1:B:2239:LYS:HG3	1:B:2613:ILE:CG2	2.24	0.68
1:B:2243:PHE:CE2	1:B:2638:MET:CB	2.53	0.68
1:D:2628:PHE:O	1:D:2631:HIS:ND1	2.25	0.68
1:A:441:ARG:HB2	1:A:441:ARG:CZ	2.23	0.67
1:A:453:LEU:N	1:A:453:LEU:HD23	2.08	0.67
1:A:2399:LEU:O	1:A:2402:CYS:HB2	1.92	0.67
1:C:2215:ILE:C	1:C:2254:MET:HE1	2.20	0.67
1:B:103:ASN:HA	1:B:106:GLU:CD	2.19	0.67
1:B:2215:ILE:C	1:B:2254:MET:HE1	2.20	0.67
1:B:2720:LYS:HE2	1:B:2720:LYS:CA	2.24	0.67
1:D:179:GLY:H	1:D:220:ILE:HB	1.59	0.67
1:D:2612:PHE:HB3	1:D:2636:HIS:HB3	1.77	0.67
1:A:179:GLY:H	1:A:220:ILE:HB	1.59	0.67
1:A:448:ASP:HA	1:A:451:LYS:HD2	1.75	0.67
1:A:646:PRO:O	1:A:650:GLU:N	2.24	0.67
1:C:2345:ILE:C	1:C:2348:VAL:CG1	2.57	0.67
1:C:2423:ARG:HD2	1:C:2423:ARG:C	2.18	0.67
1:D:2423:ARG:HD2	1:D:2423:ARG:C	2.18	0.67
1:C:2628:PHE:O	1:C:2631:HIS:ND1	2.25	0.67
1:C:2732:ARG:HH11	1:C:2732:ARG:CB	2.03	0.67
1:B:564:GLN:HB2	1:B:574:ILE:HD12	1.74	0.67
1:B:2211:PRO:O	1:B:2647:LEU:HD21	1.89	0.67
1:D:2425:GLU:C	1:D:2428:LEU:HB3	2.19	0.67
1:A:103:ASN:HA	1:A:106:GLU:CD	2.19	0.67
1:A:514:ASN:O	1:A:515:ILE:C	2.32	0.67
1:C:448:ASP:HA	1:C:451:LYS:HD2	1.75	0.67
1:C:564:GLN:CB	1:C:574:ILE:CD1	2.66	0.67
1:C:564:GLN:HB2	1:C:574:ILE:HD12	1.74	0.67
1:C:2710:THR:CB	1:B:2707:LYS:HZ2	1.89	0.67
1:B:88:LEU:H	1:B:88:LEU:HD13	1.59	0.67
1:B:2213:PRO:HD3	1:B:2647:LEU:CG	2.24	0.67
1:B:2285:VAL:HG23	1:B:2417:LEU:HD13	1.69	0.67
1:D:270:GLN:O	1:D:272:ALA:C	2.37	0.67
1:D:2215:ILE:C	1:D:2254:MET:HE1	2.19	0.67
1:D:2349:GLY:O	1:D:2352:PRO:CD	2.40	0.67
1:D:2560:GLU:C	1:D:2563:PHE:HB2	2.17	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2649:LYS:C	1:D:2650:VAL:CG2	2.54	0.67
1:A:2583:ASN:ND2	1:B:2586:PHE:CG	2.62	0.67
1:A:2713:SER:OG	1:D:2715:GLN:NE2	2.26	0.67
1:A:2720:LYS:HE2	1:A:2720:LYS:CA	2.24	0.67
1:C:524:GLN:HA	1:C:527:PHE:HD2	1.60	0.67
1:C:2239:LYS:HG3	1:C:2613:ILE:CG2	2.24	0.67
1:C:2285:VAL:HG22	1:C:2289:LEU:HD12	1.76	0.67
1:B:2285:VAL:HG23	1:B:2288:ASN:HD21	1.57	0.67
1:B:2425:GLU:C	1:B:2428:LEU:HB3	2.19	0.67
1:D:72:PHE:O	1:D:75:ALA:HB2	1.94	0.67
1:D:2191:LYS:O	1:D:2192:HIS:CB	2.40	0.67
1:D:2720:LYS:HE2	1:D:2720:LYS:CA	2.24	0.67
1:A:72:PHE:O	1:A:75:ALA:HB2	1.94	0.67
1:A:2558:LYS:CE	1:A:2560:GLU:OE2	2.43	0.67
1:C:74:LYS:HA	1:C:74:LYS:HZ2	1.59	0.67
1:C:2396:LEU:HD22	1:C:2396:LEU:C	2.20	0.67
1:C:2699:GLN:CA	1:B:2700:GLU:OE1	2.40	0.67
1:D:453:LEU:N	1:D:453:LEU:HD23	2.08	0.67
1:D:524:GLN:HA	1:D:527:PHE:HD2	1.60	0.67
1:D:2239:LYS:HG3	1:D:2613:ILE:CG2	2.24	0.67
1:D:2650:VAL:HG23	1:D:2651:LYS:HG3	1.76	0.67
1:A:270:GLN:O	1:A:272:ALA:C	2.37	0.67
1:B:2216:CYS:SG	1:B:2646:VAL:HG13	2.35	0.67
1:B:2349:GLY:C	1:B:2351:GLN:N	2.50	0.67
1:B:2559:GLU:OE1	1:B:2562:LEU:HD23	1.70	0.67
1:D:2240:ILE:N	1:D:2240:ILE:HD12	2.08	0.67
1:C:391:ARG:NH1	1:C:396:ASN:OD1	2.28	0.67
1:C:2239:LYS:HE2	1:C:2240:ILE:HG13	1.77	0.67
1:C:2558:LYS:CD	1:C:2560:GLU:CG	2.71	0.67
1:B:391:ARG:NH1	1:B:396:ASN:OD1	2.28	0.67
1:A:2612:PHE:HB3	1:A:2636:HIS:HB3	1.77	0.67
1:C:2720:LYS:HE2	1:C:2720:LYS:CA	2.24	0.67
1:D:2558:LYS:CE	1:D:2560:GLU:OE2	2.43	0.67
1:A:85:ASP:OD1	1:A:85:ASP:N	2.16	0.67
1:A:524:GLN:HA	1:A:527:PHE:HD2	1.60	0.67
1:A:2191:LYS:O	1:A:2212:VAL:HG22	1.95	0.67
1:A:2215:ILE:C	1:A:2254:MET:HE1	2.19	0.67
1:A:2348:VAL:HG12	1:A:2353:THR:HB	1.72	0.67
1:C:88:LEU:H	1:C:88:LEU:HD13	1.59	0.67
1:C:2566:ARG:HG3	1:C:2566:ARG:HH11	1.59	0.67
1:C:2650:VAL:HG23	1:C:2651:LYS:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:72:PHE:O	1:B:75:ALA:HB2	1.94	0.67
1:B:179:GLY:H	1:B:220:ILE:HB	1.60	0.67
1:B:2285:VAL:HG22	1:B:2289:LEU:HD12	1.76	0.67
1:D:2558:LYS:CD	1:D:2560:GLU:CG	2.71	0.67
1:A:391:ARG:NH1	1:A:396:ASN:OD1	2.28	0.66
1:A:2468:ILE:O	1:A:2526:HIS:ND1	2.28	0.66
1:C:488:THR:OG1	1:C:559:VAL:HG13	1.95	0.66
1:C:2706:MET:HG2	1:B:2703:GLU:OE2	1.89	0.66
1:B:2621:PHE:O	1:B:2624:LYS:CG	2.41	0.66
1:D:2285:VAL:HG22	1:D:2289:LEU:HD12	1.76	0.66
1:D:2345:ILE:C	1:D:2348:VAL:CG1	2.57	0.66
1:D:2655:GLU:OE1	1:D:2655:GLU:N	2.18	0.66
1:A:88:LEU:H	1:A:88:LEU:HD13	1.59	0.66
1:A:2566:ARG:HH11	1:A:2566:ARG:HG3	1.59	0.66
1:A:2695:LEU:O	1:A:2696:ARG:C	2.38	0.66
1:C:72:PHE:O	1:C:75:ALA:HB2	1.94	0.66
1:C:2239:LYS:HG3	1:C:2613:ILE:HG21	1.77	0.66
1:C:2349:GLY:C	1:C:2351:GLN:N	2.50	0.66
1:B:2558:LYS:CE	1:B:2560:GLU:OE2	2.43	0.66
1:D:2396:LEU:HD22	1:D:2396:LEU:C	2.20	0.66
1:A:488:THR:OG1	1:A:559:VAL:HG13	1.95	0.66
1:C:179:GLY:H	1:C:220:ILE:HB	1.59	0.66
1:B:488:THR:OG1	1:B:559:VAL:HG13	1.94	0.66
1:B:524:GLN:HA	1:B:527:PHE:HD2	1.60	0.66
1:B:2612:PHE:HB3	1:B:2636:HIS:HB3	1.77	0.66
1:D:88:LEU:H	1:D:88:LEU:HD13	1.59	0.66
1:C:2434:VAL:HG21	1:B:2584:LEU:CD1	2.16	0.66
1:D:391:ARG:NH1	1:D:396:ASN:OD1	2.28	0.66
1:D:450:SER:HA	1:D:453:LEU:HD12	1.77	0.66
1:D:1107:GLN:O	1:D:1110:ASP:N	2.28	0.66
1:D:2239:LYS:HG3	1:D:2613:ILE:HG21	1.77	0.66
1:D:2239:LYS:HE2	1:D:2240:ILE:HG13	1.77	0.66
1:D:2468:ILE:O	1:D:2526:HIS:ND1	2.28	0.66
1:D:2695:LEU:O	1:D:2696:ARG:C	2.38	0.66
1:A:2190:ALA:C	1:A:2192:HIS:N	2.48	0.66
1:A:2657:THR:HA	1:A:2660:GLU:HB2	1.78	0.66
1:C:1961:ALA:O	1:C:1965:ILE:N	2.22	0.66
1:C:2425:GLU:C	1:C:2428:LEU:HB3	2.19	0.66
1:C:2549:VAL:CG2	1:C:2573:PHE:HD2	2.09	0.66
1:B:2190:ALA:C	1:B:2192:HIS:N	2.48	0.66
1:B:2549:VAL:CG2	1:B:2573:PHE:HD2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:108:ARG:NH1	1:D:108:ARG:O	2.29	0.66
1:D:488:THR:OG1	1:D:559:VAL:HG13	1.95	0.66
1:D:2243:PHE:HE2	1:D:2638:MET:HB3	1.50	0.66
1:A:2239:LYS:HG3	1:A:2613:ILE:HG21	1.77	0.66
1:A:2650:VAL:HG23	1:A:2651:LYS:HG3	1.77	0.66
1:A:2702:LEU:HD11	1:D:2700:GLU:HG2	1.75	0.66
1:C:450:SER:HA	1:C:453:LEU:HD12	1.77	0.66
1:C:2021:LEU:C	1:C:2023:LEU:N	2.54	0.66
1:C:2576:MET:HE3	1:C:2580:ILE:HG13	1.70	0.66
1:B:448:ASP:HA	1:B:451:LYS:HD2	1.75	0.66
1:B:2695:LEU:O	1:B:2696:ARG:C	2.38	0.66
1:A:547:ALA:CB	1:A:548:PRO:CD	2.17	0.66
1:A:2285:VAL:HG22	1:A:2289:LEU:HD12	1.76	0.66
1:C:2288:ASN:ND2	1:C:2417:LEU:CB	2.51	0.66
1:B:2560:GLU:HG2	1:B:2563:PHE:CE2	2.16	0.66
1:B:2566:ARG:HH11	1:B:2566:ARG:HG3	1.59	0.66
1:D:2566:ARG:HH11	1:D:2566:ARG:HG3	1.59	0.66
1:A:1107:GLN:O	1:A:1110:ASP:N	2.28	0.66
1:A:2655:GLU:OE1	1:A:2655:GLU:N	2.18	0.66
1:C:456:ILE:HB	1:C:521:LYS:HZ2	1.61	0.66
1:C:2213:PRO:HD3	1:C:2647:LEU:CG	2.25	0.66
1:C:2612:PHE:HB3	1:C:2636:HIS:HB3	1.77	0.66
1:B:92:LEU:CD2	1:B:92:LEU:H	1.96	0.66
1:B:2365:LYS:HZ1	1:B:2395:HIS:HB3	1.60	0.66
1:D:2191:LYS:O	1:D:2212:VAL:HG22	1.95	0.66
1:A:2239:LYS:HE2	1:A:2240:ILE:HG13	1.77	0.66
1:A:2243:PHE:HZ	1:A:2638:MET:CB	2.03	0.66
1:A:2621:PHE:O	1:A:2624:LYS:CG	2.41	0.66
1:C:2695:LEU:O	1:C:2696:ARG:C	2.38	0.66
1:B:108:ARG:NH1	1:B:108:ARG:O	2.29	0.66
1:B:1107:GLN:O	1:B:1110:ASP:N	2.28	0.66
1:B:2622:ASP:CG	1:B:2628:PHE:CD1	2.74	0.66
1:D:92:LEU:HD22	1:D:92:LEU:N	2.07	0.66
1:D:2239:LYS:HZ2	1:D:2677:ARG:CD	2.08	0.66
1:A:2103:ARG:C	1:A:2105:ASP:N	2.53	0.66
1:C:1107:GLN:O	1:C:1110:ASP:N	2.28	0.66
1:B:2396:LEU:HD22	1:B:2396:LEU:C	2.20	0.66
1:B:2401:ILE:HG13	1:B:2402:CYS:H	1.61	0.66
1:B:2468:ILE:O	1:B:2526:HIS:ND1	2.28	0.66
1:D:564:GLN:NE2	1:D:578:PHE:CD2	2.64	0.66
1:D:2397:LEU:HD23	1:D:2400:LEU:HD12	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:LEU:O	1:A:92:LEU:HD22	1.87	0.65
1:A:108:ARG:NH1	1:A:108:ARG:O	2.29	0.65
1:C:2216:CYS:SG	1:C:2646:VAL:HG13	2.35	0.65
1:C:2397:LEU:HD23	1:C:2400:LEU:HD12	1.78	0.65
1:B:2178:GLY:O	1:B:2186:LEU:CG	2.44	0.65
1:D:2239:LYS:CE	1:D:2240:ILE:HG13	2.27	0.65
1:C:92:LEU:HD22	1:C:92:LEU:N	2.07	0.65
1:C:2191:LYS:O	1:C:2212:VAL:HG22	1.95	0.65
1:C:2621:PHE:O	1:C:2624:LYS:CG	2.41	0.65
1:B:2650:VAL:HG23	1:B:2651:LYS:HG3	1.76	0.65
1:D:453:LEU:C	1:D:521:LYS:HZ2	2.04	0.65
1:C:2558:LYS:CE	1:C:2560:GLU:OE2	2.43	0.65
1:B:107:ASN:HA	1:B:110:LEU:HD12	1.79	0.65
1:B:2657:THR:HA	1:B:2660:GLU:HB2	1.78	0.65
1:D:2103:ARG:C	1:D:2105:ASP:N	2.53	0.65
1:D:2434:VAL:O	1:D:2434:VAL:HG12	1.97	0.65
1:A:250:PHE:O	1:A:264:LEU:HB2	1.96	0.65
1:C:2468:ILE:O	1:C:2526:HIS:ND1	2.28	0.65
1:B:2191:LYS:O	1:B:2212:VAL:HG22	1.95	0.65
1:B:2345:ILE:CD1	1:B:2356:LEU:HD23	2.15	0.65
1:B:2397:LEU:HD23	1:B:2400:LEU:HD12	1.78	0.65
1:D:2021:LEU:C	1:D:2023:LEU:N	2.54	0.65
1:D:2549:VAL:CG2	1:D:2573:PHE:HD2	2.09	0.65
1:A:583:LYS:HD2	1:A:583:LYS:C	2.21	0.65
1:A:2396:LEU:HD22	1:A:2396:LEU:C	2.20	0.65
1:A:2397:LEU:HD23	1:A:2400:LEU:HD12	1.78	0.65
1:A:2720:LYS:HD3	1:D:2725:GLU:OE1	1.97	0.65
1:C:2657:THR:HA	1:C:2660:GLU:HB2	1.78	0.65
1:B:2239:LYS:CE	1:B:2240:ILE:HG13	2.27	0.65
1:D:1245:CYS:C	1:D:1247:GLY:N	2.41	0.65
1:D:2622:ASP:CG	1:D:2628:PHE:CD1	2.74	0.65
1:A:88:LEU:C	1:A:92:LEU:HD11	2.01	0.65
1:A:450:SER:HA	1:A:453:LEU:HD12	1.77	0.65
1:A:2191:LYS:O	1:A:2192:HIS:CB	2.40	0.65
1:A:2549:VAL:CG2	1:A:2573:PHE:HD2	2.09	0.65
1:A:2622:ASP:CG	1:A:2628:PHE:CD1	2.74	0.65
1:A:2624:LYS:HB2	1:A:2624:LYS:HZ3	1.61	0.65
1:A:2695:LEU:O	1:A:2698:LEU:N	2.30	0.65
1:A:2706:MET:C	1:D:2707:LYS:HE2	2.22	0.65
1:C:107:ASN:HA	1:C:110:LEU:HD12	1.79	0.65
1:C:2178:GLY:O	1:C:2186:LEU:CG	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:GLN:HE22	1:B:271:SER:H	1.38	0.65
1:B:564:GLN:NE2	1:B:578:PHE:CD2	2.64	0.65
1:B:2103:ARG:C	1:B:2105:ASP:N	2.53	0.65
1:B:2576:MET:HE3	1:B:2580:ILE:HG13	1.70	0.65
1:D:583:LYS:HD2	1:D:583:LYS:C	2.22	0.65
1:D:2695:LEU:N	1:D:2695:LEU:HD12	2.12	0.65
1:A:2178:GLY:O	1:A:2186:LEU:CG	2.44	0.65
1:A:2698:LEU:O	1:A:2698:LEU:HD23	1.97	0.65
1:C:108:ARG:NH1	1:C:108:ARG:O	2.29	0.65
1:C:2696:ARG:HH12	1:B:2696:ARG:HH21	1.35	0.65
1:B:583:LYS:HD2	1:B:583:LYS:C	2.21	0.65
1:D:442:ASP:CG	1:D:483:PHE:HE2	2.05	0.65
1:D:2621:PHE:O	1:D:2624:LYS:CG	2.41	0.65
1:A:2213:PRO:HD3	1:A:2647:LEU:CG	2.24	0.65
1:C:2273:MET:HB2	1:C:2371:SER:HG	1.61	0.65
1:B:250:PHE:O	1:B:264:LEU:HB2	1.96	0.65
1:B:2239:LYS:HG3	1:B:2613:ILE:HG21	1.77	0.65
1:B:2276:TRP:HB3	1:B:2367:ILE:HD13	1.79	0.65
1:B:2578:ILE:HD12	1:B:2578:ILE:O	1.97	0.65
1:A:442:ASP:CG	1:A:483:PHE:HE2	2.05	0.65
1:A:564:GLN:NE2	1:A:578:PHE:CD2	2.64	0.65
1:A:564:GLN:HB2	1:A:574:ILE:HD12	1.74	0.65
1:A:2695:LEU:HD12	1:A:2695:LEU:N	2.12	0.65
1:C:2285:VAL:O	1:C:2289:LEU:HD13	1.97	0.65
1:C:2401:ILE:HG13	1:C:2402:CYS:H	1.61	0.65
1:B:2021:LEU:C	1:B:2023:LEU:N	2.54	0.65
1:B:2242:ASP:HA	1:B:2245:LEU:HD12	1.79	0.65
1:D:2213:PRO:HD3	1:D:2647:LEU:CG	2.24	0.65
1:D:2276:TRP:HB3	1:D:2367:ILE:HD13	1.79	0.65
1:D:2283:LEU:HD23	1:D:2283:LEU:C	2.22	0.65
1:C:2038:GLU:O	1:C:2042:GLU:N	2.30	0.65
1:C:2189:TYR:O	1:C:2192:HIS:CA	2.46	0.65
1:D:250:PHE:O	1:D:264:LEU:HB2	1.96	0.65
1:D:646:PRO:C	1:D:648:THR:H	1.72	0.65
1:A:2239:LYS:CE	1:A:2240:ILE:HG13	2.27	0.64
1:A:2285:VAL:O	1:A:2289:LEU:HD13	1.97	0.64
1:A:2288:ASN:O	1:A:2291:VAL:HG22	1.97	0.64
1:C:441:ARG:HB2	1:C:441:ARG:NH1	2.13	0.64
1:C:2412:PHE:HA	1:C:2415:LEU:HD12	1.79	0.64
1:B:450:SER:HA	1:B:453:LEU:HD12	1.77	0.64
1:B:2384:ARG:HB3	1:B:2387:VAL:HG12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:441:ARG:HB2	1:D:441:ARG:NH1	2.13	0.64
1:C:583:LYS:HD2	1:C:583:LYS:C	2.22	0.64
1:C:2276:TRP:HB3	1:C:2367:ILE:HD13	1.78	0.64
1:B:453:LEU:O	1:B:521:LYS:CD	2.46	0.64
1:B:2038:GLU:O	1:B:2042:GLU:N	2.30	0.64
1:D:2178:GLY:O	1:D:2186:LEU:CG	2.44	0.64
1:D:2727:ARG:HA	1:D:2727:ARG:CZ	2.28	0.64
1:A:816:ILE:O	1:A:878:PHE:CA	2.46	0.64
1:A:2401:ILE:HG13	1:A:2402:CYS:H	1.61	0.64
1:A:2578:ILE:HD12	1:A:2578:ILE:O	1.97	0.64
1:B:547:ALA:CB	1:B:548:PRO:CD	2.17	0.64
1:B:2289:LEU:N	1:B:2289:LEU:HD13	2.13	0.64
1:B:2401:ILE:CG1	1:B:2402:CYS:N	2.61	0.64
1:D:509:LEU:HD22	1:D:509:LEU:C	2.23	0.64
1:A:2216:CYS:SG	1:A:2646:VAL:HG13	2.35	0.64
1:A:2242:ASP:HA	1:A:2245:LEU:HD12	1.79	0.64
1:A:2384:ARG:HB3	1:A:2387:VAL:HG12	1.79	0.64
1:A:2707:LYS:HG2	1:B:2706:MET:HB3	1.80	0.64
1:C:453:LEU:O	1:C:521:LYS:CD	2.46	0.64
1:C:2288:ASN:O	1:C:2291:VAL:HG22	1.97	0.64
1:C:2695:LEU:HD12	1:C:2695:LEU:N	2.12	0.64
1:B:1680:ARG:O	1:B:1684:THR:N	2.31	0.64
1:B:2283:LEU:HD23	1:B:2283:LEU:C	2.22	0.64
1:A:300:ASN:CG	1:D:2730:LYS:CG	2.58	0.64
1:A:2038:GLU:O	1:A:2042:GLU:N	2.30	0.64
1:A:2695:LEU:C	1:A:2697:ASN:N	2.56	0.64
1:C:2612:PHE:CD1	1:C:2638:MET:SD	2.91	0.64
1:B:443:LEU:HD21	1:B:513:GLN:NE2	2.13	0.64
1:B:2288:ASN:O	1:B:2291:VAL:HG22	1.97	0.64
1:D:816:ILE:O	1:D:878:PHE:CA	2.46	0.64
1:D:1680:ARG:O	1:D:1684:THR:N	2.31	0.64
1:D:2284:ALA:O	1:D:2287:MET:CB	2.41	0.64
1:D:2448:ALA:CB	1:D:2581:VAL:HG21	2.27	0.64
1:A:509:LEU:HD22	1:A:509:LEU:C	2.23	0.64
1:A:2021:LEU:C	1:A:2023:LEU:N	2.54	0.64
1:A:2288:ASN:ND2	1:A:2417:LEU:CB	2.51	0.64
1:A:2448:ALA:CB	1:A:2581:VAL:HG21	2.26	0.64
1:C:237:GLY:O	1:C:283:GLU:CG	2.45	0.64
1:C:646:PRO:O	1:C:650:GLU:N	2.24	0.64
1:C:816:ILE:O	1:C:878:PHE:CA	2.46	0.64
1:C:2434:VAL:O	1:C:2434:VAL:HG12	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2448:ALA:CB	1:C:2581:VAL:HG21	2.27	0.64
1:C:2727:ARG:HA	1:C:2727:ARG:CZ	2.28	0.64
1:B:2239:LYS:HE2	1:B:2240:ILE:HG13	1.77	0.64
1:B:2239:LYS:HZ2	1:B:2677:ARG:NE	1.94	0.64
1:B:2448:ALA:CB	1:B:2581:VAL:HG21	2.26	0.64
1:B:2698:LEU:HD23	1:B:2698:LEU:O	1.97	0.64
1:D:237:GLY:O	1:D:283:GLU:CG	2.46	0.64
1:D:237:GLY:C	1:D:283:GLU:OE2	2.40	0.64
1:D:453:LEU:C	1:D:521:LYS:NZ	2.56	0.64
1:D:1995:THR:CA	1:D:1998:ASN:O	2.46	0.64
1:D:2348:VAL:HG21	1:D:2353:THR:HG22	1.78	0.64
1:A:1508:VAL:CA	1:A:1536:CYS:CA	2.76	0.64
1:A:2276:TRP:HB3	1:A:2367:ILE:HD13	1.78	0.64
1:A:2283:LEU:HD23	1:A:2283:LEU:C	2.22	0.64
1:A:2727:ARG:HA	1:A:2727:ARG:CZ	2.27	0.64
1:C:250:PHE:O	1:C:264:LEU:HB2	1.96	0.64
1:C:443:LEU:CD2	1:C:513:GLN:NE2	2.61	0.64
1:C:2191:LYS:O	1:C:2192:HIS:CB	2.40	0.64
1:C:2239:LYS:CE	1:C:2240:ILE:HG13	2.27	0.64
1:B:2695:LEU:O	1:B:2698:LEU:N	2.30	0.64
1:B:2727:ARG:HA	1:B:2727:ARG:CZ	2.27	0.64
1:D:2612:PHE:CD1	1:D:2638:MET:SD	2.91	0.64
1:A:2032:LEU:O	1:A:2036:THR:N	2.31	0.64
1:A:2189:TYR:O	1:A:2192:HIS:CA	2.46	0.64
1:A:2345:ILE:O	1:A:2348:VAL:HG12	1.86	0.64
1:A:2401:ILE:CG1	1:A:2402:CYS:N	2.61	0.64
1:C:237:GLY:C	1:C:283:GLU:OE2	2.40	0.64
1:C:442:ASP:CG	1:C:483:PHE:HE2	2.05	0.64
1:C:1680:ARG:O	1:C:1684:THR:N	2.31	0.64
1:C:2289:LEU:N	1:C:2289:LEU:HD13	2.13	0.64
1:B:453:LEU:C	1:B:521:LYS:NZ	2.56	0.64
1:D:170:ARG:NH1	1:D:180:ASP:OD1	2.31	0.64
1:D:2216:CYS:SG	1:D:2646:VAL:HG13	2.35	0.64
1:A:170:ARG:NH1	1:A:180:ASP:OD1	2.31	0.64
1:A:567:TYR:CD1	2:A:2801:JYP:O8	2.51	0.64
1:A:2284:ALA:O	1:A:2287:MET:CB	2.41	0.64
1:A:2289:LEU:N	1:A:2289:LEU:HD13	2.13	0.64
1:A:2612:PHE:CD1	1:A:2638:MET:SD	2.91	0.64
1:A:2696:ARG:HH22	1:B:2696:ARG:HH22	1.46	0.64
1:C:509:LEU:HD22	1:C:509:LEU:C	2.23	0.64
1:C:2283:LEU:C	1:C:2283:LEU:HD23	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2401:ILE:CG1	1:C:2402:CYS:N	2.61	0.64
1:C:2698:LEU:O	1:C:2698:LEU:HD23	1.97	0.64
1:B:275:ALA:CB	2:B:2801:JYP:N4	2.46	0.64
1:B:2058:HIS:O	1:B:2062:GLY:N	2.20	0.64
1:D:107:ASN:HA	1:D:110:LEU:HD12	1.79	0.64
1:D:2412:PHE:HA	1:D:2415:LEU:HD12	1.79	0.64
1:D:2571:LEU:O	1:D:2575:PHE:N	2.31	0.64
1:D:2698:LEU:O	1:D:2698:LEU:HD23	1.97	0.64
1:A:443:LEU:HD21	1:A:513:GLN:NE2	2.13	0.64
1:A:571:GLN:HG3	1:A:574:ILE:CD1	2.28	0.64
1:C:270:GLN:HE22	1:C:271:SER:H	1.37	0.64
1:C:2285:VAL:O	1:C:2288:ASN:N	2.31	0.64
1:C:2560:GLU:CG	1:C:2563:PHE:HE2	1.79	0.64
1:B:237:GLY:C	1:B:283:GLU:OE2	2.40	0.64
1:B:2239:LYS:HZ2	1:B:2677:ARG:HE	1.46	0.64
1:B:2412:PHE:HA	1:B:2415:LEU:HD12	1.79	0.64
1:B:2434:VAL:HG12	1:B:2434:VAL:O	1.97	0.64
1:D:1508:VAL:CA	1:D:1536:CYS:CA	2.76	0.64
1:D:2189:TYR:O	1:D:2192:HIS:CA	2.46	0.64
1:D:2285:VAL:O	1:D:2288:ASN:N	2.31	0.64
1:D:2626:VAL:CG1	1:D:2627:THR:N	1.88	0.64
1:D:2695:LEU:O	1:D:2698:LEU:N	2.30	0.64
1:A:107:ASN:HA	1:A:110:LEU:HD12	1.79	0.63
1:A:237:GLY:O	1:A:283:GLU:CG	2.46	0.63
1:A:237:GLY:C	1:A:283:GLU:OE2	2.40	0.63
1:A:441:ARG:HB2	1:A:441:ARG:NH1	2.13	0.63
1:A:456:ILE:HB	1:A:521:LYS:HZ2	1.62	0.63
1:A:1995:THR:CA	1:A:1998:ASN:O	2.46	0.63
1:A:2204:THR:H	1:A:2679:ARG:NH1	1.96	0.63
1:C:488:THR:HB	1:C:559:VAL:HG13	1.80	0.63
1:C:547:ALA:HB1	1:C:548:PRO:HD2	0.67	0.63
1:C:567:TYR:CD1	2:C:2801:JYP:O8	2.51	0.63
1:C:2699:GLN:HA	1:B:2700:GLU:CD	2.23	0.63
2:C:2801:JYP:O7	2:C:2801:JYP:O12	2.17	0.63
1:B:237:GLY:O	1:B:283:GLU:CG	2.46	0.63
1:B:442:ASP:CG	1:B:483:PHE:HE2	2.05	0.63
1:B:443:LEU:CD2	1:B:513:GLN:NE2	2.61	0.63
1:B:816:ILE:O	1:B:878:PHE:CA	2.46	0.63
1:B:2285:VAL:O	1:B:2289:LEU:HD13	1.97	0.63
1:B:2695:LEU:N	1:B:2695:LEU:HD12	2.12	0.63
1:D:567:TYR:CD1	2:D:2801:JYP:O8	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2032:LEU:O	1:D:2036:THR:N	2.31	0.63
1:D:2038:GLU:O	1:D:2042:GLU:N	2.30	0.63
1:A:2649:LYS:C	1:A:2650:VAL:CG2	2.54	0.63
1:C:453:LEU:CA	1:C:521:LYS:HZ3	2.11	0.63
1:C:2578:ILE:HD12	1:C:2578:ILE:O	1.97	0.63
1:B:170:ARG:NH1	1:B:180:ASP:OD1	2.31	0.63
1:B:441:ARG:HB2	1:B:441:ARG:NH1	2.13	0.63
1:B:1995:THR:CA	1:B:1998:ASN:O	2.46	0.63
1:B:2204:THR:H	1:B:2679:ARG:NH1	1.97	0.63
1:D:2288:ASN:ND2	1:D:2417:LEU:CB	2.51	0.63
1:D:2657:THR:HA	1:D:2660:GLU:HB2	1.78	0.63
1:A:453:LEU:O	1:A:521:LYS:CD	2.46	0.63
1:A:2433:SER:C	1:A:2434:VAL:CG2	2.72	0.63
1:A:2576:MET:HE3	1:A:2580:ILE:HG13	1.70	0.63
1:C:2103:ARG:C	1:C:2105:ASP:N	2.53	0.63
1:C:2204:THR:H	1:C:2679:ARG:NH1	1.96	0.63
1:B:269:ARG:HB3	2:B:2801:JYP:C3	2.29	0.63
1:B:2713:SER:HA	1:B:2716:LEU:HD11	1.80	0.63
1:D:2242:ASP:HA	1:D:2245:LEU:HD12	1.79	0.63
1:D:2273:MET:CA	1:D:2276:TRP:CD1	2.71	0.63
1:D:2285:VAL:O	1:D:2289:LEU:HD13	1.97	0.63
1:D:2578:ILE:HD12	1:D:2578:ILE:O	1.97	0.63
1:A:2707:LYS:CG	1:B:2706:MET:HB3	2.28	0.63
1:C:2285:VAL:HG23	1:C:2288:ASN:ND2	2.14	0.63
1:C:2348:VAL:HG12	1:C:2353:THR:HB	1.72	0.63
1:B:1508:VAL:CA	1:B:1536:CYS:CA	2.76	0.63
1:D:443:LEU:CD2	1:D:513:GLN:NE2	2.61	0.63
1:D:453:LEU:O	1:D:521:LYS:CD	2.46	0.63
1:D:547:ALA:HB1	1:D:548:PRO:HD2	0.67	0.63
1:D:2204:THR:H	1:D:2679:ARG:NH1	1.97	0.63
1:D:2285:VAL:HG23	1:D:2288:ASN:ND2	2.14	0.63
1:D:2289:LEU:N	1:D:2289:LEU:HD13	2.13	0.63
1:A:92:LEU:HD22	1:A:92:LEU:N	2.07	0.63
1:A:443:LEU:CD2	1:A:513:GLN:NE2	2.61	0.63
1:A:2201:LEU:CA	1:A:2662:TYR:OH	2.46	0.63
1:A:2713:SER:HA	1:A:2716:LEU:HD11	1.80	0.63
1:C:443:LEU:HD21	1:C:513:GLN:NE2	2.13	0.63
1:C:819:TYR:H	1:C:877:GLY:CA	2.11	0.63
1:C:1508:VAL:CA	1:C:1536:CYS:CA	2.76	0.63
1:C:2242:ASP:HA	1:C:2245:LEU:HD12	1.79	0.63
1:C:2411:PHE:O	1:C:2413:TYR:HD2	1.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:488:THR:HB	1:B:559:VAL:HG13	1.80	0.63
1:B:819:TYR:H	1:B:877:GLY:CA	2.11	0.63
1:B:2612:PHE:CD1	1:B:2638:MET:SD	2.91	0.63
1:D:441:ARG:HH11	1:D:441:ARG:HG3	1.63	0.63
1:D:2035:GLN:O	1:D:2039:SER:N	2.32	0.63
1:A:2034:ASN:O	1:A:2038:GLU:N	2.30	0.63
1:A:2412:PHE:HA	1:A:2415:LEU:HD12	1.79	0.63
1:B:509:LEU:HD22	1:B:509:LEU:C	2.23	0.63
1:B:516:LEU:N	1:B:516:LEU:HD12	2.12	0.63
1:B:2035:GLN:O	1:B:2039:SER:N	2.32	0.63
1:B:2189:TYR:O	1:B:2192:HIS:CA	2.46	0.63
1:B:2649:LYS:HA	1:B:2649:LYS:HZ2	1.61	0.63
1:D:819:TYR:H	1:D:877:GLY:CA	2.11	0.63
1:D:2201:LEU:CA	1:D:2662:TYR:OH	2.46	0.63
1:C:170:ARG:NH1	1:C:180:ASP:OD1	2.31	0.63
1:C:269:ARG:HB3	2:C:2801:JYP:C3	2.29	0.63
1:C:1995:THR:CA	1:C:1998:ASN:O	2.46	0.63
1:B:92:LEU:HD22	1:B:92:LEU:N	2.07	0.63
1:B:2411:PHE:O	1:B:2413:TYR:HD2	1.82	0.63
1:A:12:GLY:H	1:A:60:LEU:HB2	1.64	0.63
1:A:269:ARG:HB3	2:A:2801:JYP:C3	2.29	0.63
1:A:2434:VAL:O	1:A:2434:VAL:HG12	1.97	0.63
1:A:2725:GLU:CD	1:B:2720:LYS:HD3	2.24	0.63
1:C:2281:PHE:CB	1:C:2420:LEU:HD22	2.29	0.63
1:C:2384:ARG:HB3	1:C:2387:VAL:HG12	1.79	0.63
1:C:2532:LEU:HD22	1:D:2295:TYR:CD1	2.34	0.63
1:B:2032:LEU:O	1:B:2036:THR:N	2.31	0.63
1:B:2372:PHE:CD2	1:B:2395:HIS:ND1	2.59	0.63
1:D:564:GLN:HB2	1:D:574:ILE:HD12	1.74	0.63
1:D:2288:ASN:O	1:D:2291:VAL:HG22	1.97	0.63
1:A:2035:GLN:O	1:A:2039:SER:N	2.32	0.63
1:A:2285:VAL:O	1:A:2288:ASN:N	2.31	0.63
1:A:2639:TRP:HA	1:A:2642:LEU:HD22	1.81	0.63
1:C:2035:GLN:O	1:C:2039:SER:N	2.32	0.63
1:C:2215:ILE:O	1:C:2254:MET:HE1	1.99	0.63
1:B:2201:LEU:CA	1:B:2662:TYR:OH	2.46	0.63
1:B:2285:VAL:O	1:B:2288:ASN:N	2.31	0.63
1:D:968:MET:O	1:D:972:LEU:N	2.32	0.63
1:D:2215:ILE:O	1:D:2254:MET:HE1	1.99	0.63
1:D:2401:ILE:HG13	1:D:2402:CYS:H	1.61	0.63
1:A:582:GLN:NE2	1:A:582:GLN:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2348:VAL:HG11	1:A:2353:THR:HG1	1.60	0.62
1:C:2586:PHE:CG	1:B:2583:ASN:ND2	2.66	0.62
1:B:509:LEU:CA	1:B:512:GLU:HB3	2.29	0.62
1:B:567:TYR:CD1	2:B:2801:JYP:O8	2.51	0.62
1:D:582:GLN:NE2	1:D:582:GLN:O	2.32	0.62
1:D:2384:ARG:HB3	1:D:2387:VAL:HG12	1.79	0.62
1:D:2401:ILE:CG1	1:D:2402:CYS:N	2.61	0.62
1:A:275:ALA:N	2:A:2801:JYP:N4	2.47	0.62
1:A:509:LEU:CA	1:A:512:GLU:HB3	2.29	0.62
1:A:2285:VAL:HG23	1:A:2288:ASN:ND2	2.14	0.62
1:A:2447:LEU:HD13	1:B:2427:LEU:HD11	1.81	0.62
1:A:2571:LEU:O	1:A:2575:PHE:N	2.31	0.62
1:C:2348:VAL:HG21	1:C:2353:THR:HG22	1.78	0.62
1:C:2433:SER:C	1:C:2434:VAL:CG2	2.72	0.62
1:C:2586:PHE:CD1	1:B:2583:ASN:ND2	2.67	0.62
1:B:453:LEU:CA	1:B:521:LYS:HZ2	2.06	0.62
1:B:453:LEU:C	1:B:521:LYS:HZ2	2.07	0.62
1:B:2285:VAL:HG23	1:B:2288:ASN:ND2	2.14	0.62
1:D:269:ARG:HB3	2:D:2801:JYP:C3	2.29	0.62
1:D:443:LEU:HD21	1:D:513:GLN:NE2	2.13	0.62
1:A:488:THR:HB	1:A:559:VAL:HG13	1.80	0.62
1:A:516:LEU:N	1:A:516:LEU:HD12	2.12	0.62
1:A:2348:VAL:HB	1:A:2353:THR:HG22	1.81	0.62
1:A:2372:PHE:CD2	1:A:2395:HIS:ND1	2.59	0.62
1:C:275:ALA:N	2:C:2801:JYP:N4	2.47	0.62
1:C:2201:LEU:HD12	1:C:2203:ARG:HH22	1.64	0.62
1:C:2566:ARG:HH11	1:C:2566:ARG:CG	2.13	0.62
1:C:2616:LEU:HD11	1:C:2621:PHE:CE2	2.35	0.62
1:C:2713:SER:HA	1:C:2716:LEU:HD11	1.80	0.62
1:B:582:GLN:O	1:B:582:GLN:NE2	2.32	0.62
1:D:275:ALA:N	2:D:2801:JYP:N4	2.47	0.62
1:D:2576:MET:HE3	1:D:2580:ILE:HG13	1.70	0.62
1:A:2290:LEU:HD13	1:A:2290:LEU:C	2.25	0.62
1:C:509:LEU:CA	1:C:512:GLU:HB3	2.29	0.62
1:C:520:PHE:O	1:C:520:PHE:HD1	1.83	0.62
1:C:1807:LEU:O	1:C:1811:LEU:N	2.32	0.62
1:C:2281:PHE:HB2	1:C:2420:LEU:HD13	1.81	0.62
1:B:2639:TRP:HA	1:B:2642:LEU:HD22	1.81	0.62
1:D:2290:LEU:HD13	1:D:2290:LEU:C	2.25	0.62
1:D:2349:GLY:C	1:D:2351:GLN:N	2.50	0.62
1:A:263:PHE:CE2	1:A:265:ARG:NE	2.58	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:PHE:HD1	1:A:520:PHE:O	1.83	0.62
1:A:819:TYR:H	1:A:877:GLY:CA	2.11	0.62
1:A:2372:PHE:CZ	1:A:2392:PHE:HB3	2.34	0.62
1:B:2201:LEU:HD12	1:B:2203:ARG:HH22	1.64	0.62
1:B:2433:SER:C	1:B:2434:VAL:CG2	2.72	0.62
1:D:270:GLN:HE22	1:D:271:SER:H	1.37	0.62
1:D:488:THR:HB	1:D:559:VAL:HG13	1.80	0.62
1:D:2713:SER:HA	1:D:2716:LEU:HD11	1.80	0.62
1:C:441:ARG:HG3	1:C:441:ARG:HH11	1.64	0.62
1:C:582:GLN:NE2	1:C:582:GLN:O	2.32	0.62
1:C:1619:VAL:O	1:C:1620:GLN:C	2.43	0.62
1:C:2288:ASN:CB	1:C:2413:TYR:C	2.72	0.62
1:C:2401:ILE:HD12	1:C:2401:ILE:C	2.25	0.62
1:B:520:PHE:O	1:B:520:PHE:HD1	1.83	0.62
1:B:569:LYS:CE	2:B:2801:JYP:C10	2.72	0.62
1:B:2034:ASN:O	1:B:2038:GLU:N	2.30	0.62
1:B:2695:LEU:C	1:B:2697:ASN:N	2.56	0.62
1:D:32:LEU:CB	1:D:445:PHE:CE2	2.82	0.62
1:D:1126:VAL:O	1:D:1130:GLU:N	2.27	0.62
1:D:2411:PHE:O	1:D:2413:TYR:HD2	1.82	0.62
1:D:2639:TRP:HA	1:D:2642:LEU:HD22	1.81	0.62
1:A:554:ARG:HH12	1:A:585:ILE:HD13	1.65	0.62
1:A:569:LYS:CE	2:A:2801:JYP:C10	2.72	0.62
1:A:2288:ASN:CB	1:A:2413:TYR:C	2.72	0.62
1:C:2434:VAL:CG1	1:C:2589:ILE:HD12	2.30	0.62
1:B:12:GLY:H	1:B:60:LEU:HB2	1.64	0.62
1:B:441:ARG:HH11	1:B:441:ARG:HG3	1.63	0.62
1:B:2642:LEU:HD13	1:B:2642:LEU:N	2.15	0.62
1:D:2372:PHE:CZ	1:D:2392:PHE:HB3	2.34	0.62
1:D:2578:ILE:HG23	1:D:2579:ILE:HG12	1.82	0.62
1:D:2649:LYS:C	1:D:2650:VAL:CG1	2.70	0.62
1:C:2201:LEU:CA	1:C:2662:TYR:OH	2.46	0.62
1:C:2240:ILE:O	1:C:2241:ASN:C	2.43	0.62
1:B:447:ASN:HB3	1:B:513:GLN:HG3	1.82	0.62
1:B:547:ALA:HB1	1:B:548:PRO:HD2	0.67	0.62
1:B:2213:PRO:N	1:B:2647:LEU:HD13	2.15	0.62
1:B:2281:PHE:CB	1:B:2420:LEU:HD22	2.29	0.62
1:B:2288:ASN:CB	1:B:2413:TYR:C	2.72	0.62
1:B:2571:LEU:O	1:B:2575:PHE:N	2.31	0.62
1:B:2616:LEU:HD11	1:B:2621:PHE:CE2	2.35	0.62
2:B:2801:JYP:O7	2:B:2801:JYP:O12	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1807:LEU:O	1:D:1811:LEU:N	2.32	0.62
1:D:2213:PRO:N	1:D:2647:LEU:HD13	2.15	0.62
1:D:2401:ILE:C	1:D:2401:ILE:HD12	2.25	0.62
1:A:32:LEU:CB	1:A:445:PHE:CE2	2.82	0.62
1:A:525:ALA:CB	1:A:526:PRO:HD2	2.30	0.62
1:A:2201:LEU:HD12	1:A:2203:ARG:HH22	1.64	0.62
1:A:2281:PHE:HB2	1:A:2420:LEU:HD13	1.81	0.62
1:A:2616:LEU:HD11	1:A:2621:PHE:CE2	2.35	0.62
2:A:2801:JYP:O7	2:A:2801:JYP:O12	2.17	0.62
1:C:12:GLY:H	1:C:60:LEU:HB2	1.64	0.62
1:C:32:LEU:CB	1:C:445:PHE:CE2	2.82	0.62
1:C:564:GLN:NE2	1:C:578:PHE:CD2	2.64	0.62
1:C:1619:VAL:C	1:C:1621:ALA:H	2.05	0.62
1:C:2032:LEU:O	1:C:2036:THR:N	2.31	0.62
1:C:2290:LEU:C	1:C:2290:LEU:HD13	2.25	0.62
1:C:2579:ILE:O	1:C:2580:ILE:O	2.18	0.62
1:B:32:LEU:CB	1:B:445:PHE:CE2	2.82	0.62
1:B:453:LEU:CB	1:B:521:LYS:HZ3	2.12	0.62
1:B:453:LEU:HB3	1:B:521:LYS:HZ3	1.65	0.62
1:B:519:ILE:HD11	1:B:560:LEU:HD22	1.82	0.62
1:B:547:ALA:HB3	1:B:548:PRO:HD2	1.68	0.62
1:B:582:GLN:CA	1:B:582:GLN:HE21	2.12	0.62
1:B:1619:VAL:O	1:B:1620:GLN:C	2.43	0.62
1:D:453:LEU:HB3	1:D:521:LYS:HZ3	1.65	0.62
1:D:520:PHE:HD1	1:D:520:PHE:O	1.83	0.62
1:D:2281:PHE:HB2	1:D:2420:LEU:HD13	1.81	0.62
1:D:2357:LEU:HD13	1:D:2360:PHE:HE1	1.65	0.62
1:D:2433:SER:C	1:D:2592:THR:HG21	2.25	0.62
1:D:2616:LEU:HD11	1:D:2621:PHE:CE2	2.35	0.62
1:A:453:LEU:C	1:A:521:LYS:NZ	2.55	0.62
1:A:968:MET:O	1:A:972:LEU:N	2.32	0.62
1:A:2215:ILE:O	1:A:2254:MET:HE1	1.99	0.62
1:C:1334:LEU:O	1:C:1337:SER:O	2.17	0.62
1:C:2642:LEU:HD13	1:C:2642:LEU:N	2.15	0.62
1:B:2357:LEU:HD13	1:B:2360:PHE:HE1	1.65	0.62
1:B:2372:PHE:CZ	1:B:2392:PHE:HB3	2.34	0.62
1:D:2201:LEU:HD12	1:D:2203:ARG:HH22	1.64	0.62
1:D:2288:ASN:HA	1:D:2413:TYR:CB	2.28	0.62
1:C:87:VAL:HG23	1:C:88:LEU:HD12	1.82	0.61
1:C:582:GLN:CA	1:C:582:GLN:HE21	2.12	0.61
1:C:2030:VAL:O	1:C:2034:ASN:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2190:ALA:C	1:C:2192:HIS:N	2.48	0.61
1:C:2213:PRO:N	1:C:2647:LEU:HD13	2.15	0.61
1:C:2372:PHE:CZ	1:C:2392:PHE:HB3	2.34	0.61
1:C:2571:LEU:O	1:C:2575:PHE:N	2.31	0.61
1:C:2695:LEU:O	1:C:2698:LEU:N	2.30	0.61
1:B:2715:GLN:OE1	1:B:2718:GLU:CD	2.42	0.61
1:D:571:GLN:HG3	1:D:574:ILE:CD1	2.28	0.61
1:D:2273:MET:HB2	1:D:2371:SER:HG	1.63	0.61
1:A:582:GLN:CA	1:A:582:GLN:HE21	2.12	0.61
1:A:2281:PHE:CB	1:A:2420:LEU:HD22	2.29	0.61
1:A:2411:PHE:O	1:A:2413:TYR:HD2	1.82	0.61
1:A:2433:SER:C	1:A:2592:THR:HG21	2.25	0.61
1:C:447:ASN:HB3	1:C:513:GLN:HG3	1.82	0.61
1:B:1334:LEU:O	1:B:1337:SER:O	2.18	0.61
1:B:2290:LEU:HD13	1:B:2290:LEU:C	2.25	0.61
1:D:2288:ASN:CB	1:D:2413:TYR:C	2.72	0.61
1:A:87:VAL:HG23	1:A:88:LEU:HD12	1.82	0.61
1:A:165:PRO:HG2	1:A:168:LYS:HA	1.82	0.61
1:A:453:LEU:CA	1:A:521:LYS:HZ3	2.13	0.61
1:A:1619:VAL:O	1:A:1620:GLN:C	2.43	0.61
1:A:2195:GLN:HA	1:A:2209:VAL:HG12	1.83	0.61
1:A:2578:ILE:HG23	1:A:2579:ILE:HG12	1.82	0.61
1:C:77:LYS:HB2	1:C:78:PRO:HD2	1.82	0.61
1:C:519:ILE:HD11	1:C:560:LEU:HD22	1.82	0.61
1:C:2378:THR:HG23	1:C:2378:THR:O	2.00	0.61
1:B:275:ALA:N	2:B:2801:JYP:N4	2.47	0.61
1:B:2538:VAL:O	1:B:2542:GLY:N	2.33	0.61
1:D:2243:PHE:HZ	1:D:2638:MET:CB	2.03	0.61
1:D:2345:ILE:CD1	1:D:2356:LEU:HD23	2.16	0.61
1:D:2362:VAL:CG1	1:D:2363:CYS:N	2.63	0.61
1:D:2434:VAL:CG1	1:D:2589:ILE:HD12	2.30	0.61
1:A:547:ALA:HB1	1:A:548:PRO:HD2	0.67	0.61
1:A:2362:VAL:CG1	1:A:2363:CYS:N	2.63	0.61
1:A:2538:VAL:O	1:A:2542:GLY:N	2.33	0.61
1:B:554:ARG:HH12	1:B:585:ILE:HD13	1.65	0.61
1:B:774:PRO:O	1:B:778:ARG:N	2.33	0.61
1:B:2401:ILE:C	1:B:2401:ILE:HD12	2.25	0.61
1:B:2433:SER:C	1:B:2592:THR:HG21	2.25	0.61
1:B:2558:LYS:O	1:B:2560:GLU:HG3	2.00	0.61
1:B:2578:ILE:HG23	1:B:2579:ILE:HG12	1.82	0.61
1:D:509:LEU:CA	1:D:512:GLU:HB3	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1619:VAL:O	1:D:1620:GLN:C	2.43	0.61
1:D:2030:VAL:O	1:D:2034:ASN:N	2.32	0.61
1:D:2195:GLN:HA	1:D:2209:VAL:HG12	1.83	0.61
1:D:2432:LYS:C	1:D:2434:VAL:N	2.47	0.61
2:D:2801:JYP:O7	2:D:2801:JYP:O12	2.16	0.61
1:A:2357:LEU:HD13	1:A:2360:PHE:HE1	1.65	0.61
1:C:450:SER:CA	1:C:453:LEU:HG	2.31	0.61
1:C:2362:VAL:CG1	1:C:2363:CYS:N	2.63	0.61
1:B:450:SER:CA	1:B:453:LEU:HG	2.31	0.61
1:B:2239:LYS:CG	1:B:2240:ILE:N	2.54	0.61
1:D:646:PRO:C	1:D:650:GLU:H	2.08	0.61
1:D:2240:ILE:O	1:D:2241:ASN:C	2.43	0.61
1:D:2581:VAL:HA	1:D:2584:LEU:HB2	1.82	0.61
1:D:2642:LEU:HD13	1:D:2642:LEU:N	2.15	0.61
1:A:2558:LYS:O	1:A:2560:GLU:HG3	2.00	0.61
1:A:2581:VAL:HA	1:A:2584:LEU:HB2	1.82	0.61
1:C:547:ALA:HB3	1:C:548:PRO:HD2	1.68	0.61
1:C:1126:VAL:O	1:C:1130:GLU:N	2.27	0.61
1:C:2284:ALA:O	1:C:2287:MET:CB	2.41	0.61
1:C:2288:ASN:HA	1:C:2413:TYR:CB	2.28	0.61
1:B:646:PRO:C	1:B:648:THR:H	1.73	0.61
1:B:2215:ILE:O	1:B:2254:MET:HE1	1.99	0.61
1:D:2036:THR:O	1:D:2040:LEU:N	2.33	0.61
1:D:2106:SER:O	1:D:2110:GLU:N	2.34	0.61
1:D:2538:VAL:O	1:D:2542:GLY:N	2.33	0.61
1:D:2695:LEU:C	1:D:2697:ASN:N	2.56	0.61
1:A:441:ARG:HH11	1:A:441:ARG:HG3	1.63	0.61
1:A:447:ASN:HB3	1:A:513:GLN:HG3	1.82	0.61
1:A:517:LYS:HA	1:A:517:LYS:HZ2	1.64	0.61
1:C:582:GLN:HE21	1:C:582:GLN:HA	1.66	0.61
1:C:2058:HIS:O	1:C:2062:GLY:N	2.20	0.61
1:C:2357:LEU:HD13	1:C:2360:PHE:HE1	1.65	0.61
1:C:2695:LEU:C	1:C:2697:ASN:N	2.56	0.61
1:B:77:LYS:HB2	1:B:78:PRO:HD2	1.81	0.61
1:B:2289:LEU:CD1	1:B:2289:LEU:H	2.14	0.61
1:B:2566:ARG:HH11	1:B:2566:ARG:CG	2.13	0.61
1:D:77:LYS:HB2	1:D:78:PRO:HD2	1.82	0.61
1:D:165:PRO:HG2	1:D:168:LYS:HA	1.82	0.61
1:D:449:ALA:C	1:D:453:LEU:CG	2.59	0.61
1:D:2378:THR:HG23	1:D:2378:THR:O	2.00	0.61
1:A:1680:ARG:O	1:A:1684:THR:N	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2103:ARG:C	1:A:2105:ASP:H	2.09	0.61
1:A:2558:LYS:HE3	1:B:2528:CYS:HA	1.82	0.61
1:C:870:ALA:O	1:C:874:ILE:N	2.34	0.61
1:C:2195:GLN:HA	1:C:2209:VAL:HG12	1.83	0.61
1:C:2639:TRP:HA	1:C:2642:LEU:HD22	1.81	0.61
1:C:2713:SER:OG	1:B:2715:GLN:NE2	2.33	0.61
1:B:2103:ARG:C	1:B:2105:ASP:H	2.09	0.61
1:B:2434:VAL:CG1	1:B:2589:ILE:HD12	2.30	0.61
1:B:2692:GLN:O	1:B:2692:GLN:HG2	2.00	0.61
1:D:582:GLN:HE21	1:D:582:GLN:CA	2.12	0.61
1:A:819:TYR:H	1:A:877:GLY:N	1.99	0.61
1:A:870:ALA:O	1:A:874:ILE:N	2.34	0.61
1:C:2700:GLU:OE1	1:D:2699:GLN:HG3	2.00	0.61
1:B:87:VAL:HG23	1:B:88:LEU:HD12	1.82	0.61
1:B:653:CYS:O	1:B:657:LEU:N	2.31	0.61
1:B:2195:GLN:HA	1:B:2209:VAL:HG12	1.83	0.61
1:B:2653:SER:OG	1:B:2664:ALA:CB	2.49	0.61
1:D:12:GLY:H	1:D:60:LEU:HB2	1.64	0.61
1:D:2110:GLU:O	1:D:2114:TYR:N	2.34	0.61
1:A:77:LYS:HB2	1:A:78:PRO:HD2	1.82	0.61
1:A:92:LEU:CD2	1:A:92:LEU:H	1.96	0.61
1:A:519:ILE:HD11	1:A:560:LEU:HD22	1.82	0.61
1:A:2036:THR:O	1:A:2040:LEU:N	2.33	0.61
1:A:2213:PRO:CD	1:A:2647:LEU:CG	2.79	0.61
1:A:2213:PRO:N	1:A:2647:LEU:HD13	2.15	0.61
1:A:2434:VAL:CG1	1:A:2589:ILE:HD12	2.30	0.61
1:A:2566:ARG:HH11	1:A:2566:ARG:CG	2.13	0.61
1:A:2715:GLN:OE1	1:A:2718:GLU:CD	2.42	0.61
1:C:819:TYR:H	1:C:877:GLY:N	1.99	0.61
1:C:2433:SER:C	1:C:2592:THR:HG21	2.25	0.61
1:C:2653:SER:OG	1:C:2664:ALA:CB	2.49	0.61
1:B:525:ALA:HB3	1:B:526:PRO:CD	2.30	0.61
1:B:819:TYR:H	1:B:877:GLY:N	1.99	0.61
1:B:1619:VAL:C	1:B:1621:ALA:H	2.05	0.61
1:B:2281:PHE:HB2	1:B:2420:LEU:HD13	1.81	0.61
1:D:87:VAL:HG23	1:D:88:LEU:HD12	1.82	0.61
1:D:450:SER:CA	1:D:453:LEU:HG	2.31	0.61
1:D:2566:ARG:HH11	1:D:2566:ARG:CG	2.13	0.61
1:A:2425:GLU:HA	1:A:2428:LEU:CB	2.31	0.60
1:C:525:ALA:HB3	1:C:526:PRO:CD	2.30	0.60
1:C:554:ARG:HH12	1:C:585:ILE:HD13	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1619:VAL:C	1:D:1621:ALA:H	2.05	0.60
1:D:2281:PHE:CB	1:D:2420:LEU:HD22	2.29	0.60
1:D:2692:GLN:O	1:D:2692:GLN:HG2	2.01	0.60
1:A:1334:LEU:O	1:A:1337:SER:O	2.18	0.60
1:A:2106:SER:O	1:A:2110:GLU:N	2.34	0.60
1:A:2289:LEU:CD1	1:A:2289:LEU:H	2.14	0.60
1:A:2401:ILE:C	1:A:2401:ILE:HD12	2.25	0.60
1:C:453:LEU:C	1:C:521:LYS:NZ	2.55	0.60
1:C:2581:VAL:HA	1:C:2584:LEU:HB2	1.82	0.60
1:C:2656:TYR:O	1:C:2660:GLU:CG	2.50	0.60
1:B:968:MET:O	1:B:972:LEU:N	2.32	0.60
1:D:554:ARG:HH12	1:D:585:ILE:HD13	1.65	0.60
1:D:774:PRO:O	1:D:778:ARG:N	2.33	0.60
1:D:2425:GLU:HA	1:D:2428:LEU:CB	2.31	0.60
1:A:144:LYS:CB	1:B:1302:HIS:O	2.50	0.60
1:C:516:LEU:N	1:C:516:LEU:HD12	2.12	0.60
1:C:2289:LEU:CD1	1:C:2289:LEU:H	2.14	0.60
1:B:525:ALA:CB	1:B:526:PRO:HD2	2.30	0.60
1:B:1807:LEU:O	1:B:1811:LEU:N	2.33	0.60
1:B:2288:ASN:ND2	1:B:2417:LEU:CB	2.51	0.60
1:B:2362:VAL:CG1	1:B:2363:CYS:N	2.63	0.60
1:B:2433:SER:HA	1:B:2592:THR:CG2	2.32	0.60
1:D:870:ALA:O	1:D:874:ILE:N	2.34	0.60
1:D:2683:LEU:HD13	1:D:2683:LEU:N	2.17	0.60
1:A:582:GLN:HE21	1:A:582:GLN:HA	1.66	0.60
1:A:2706:MET:HG3	1:D:2703:GLU:CD	2.11	0.60
1:C:270:GLN:O	1:C:272:ALA:CA	2.50	0.60
1:C:2365:LYS:HE2	1:C:2395:HIS:O	2.02	0.60
1:C:2538:VAL:O	1:C:2542:GLY:N	2.33	0.60
1:C:2578:ILE:HG23	1:C:2579:ILE:HG12	1.82	0.60
1:C:2583:ASN:HD22	1:D:2586:PHE:CA	2.14	0.60
1:C:2692:GLN:HG2	1:C:2692:GLN:O	2.01	0.60
1:B:270:GLN:O	1:B:272:ALA:CA	2.50	0.60
1:B:2110:GLU:O	1:B:2114:TYR:N	2.34	0.60
1:D:519:ILE:HD11	1:D:560:LEU:HD22	1.82	0.60
1:A:450:SER:CA	1:A:453:LEU:HG	2.31	0.60
1:A:2378:THR:O	1:A:2378:THR:HG23	2.00	0.60
1:A:2696:ARG:CZ	1:D:2696:ARG:NH2	2.62	0.60
1:B:2240:ILE:O	1:B:2241:ASN:C	2.43	0.60
1:B:2683:LEU:HD13	1:B:2683:LEU:N	2.17	0.60
1:D:1334:LEU:O	1:D:1337:SER:O	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2103:ARG:C	1:D:2105:ASP:H	2.09	0.60
1:D:2365:LYS:HE2	1:D:2395:HIS:O	2.02	0.60
1:D:2368:PHE:HE2	1:D:2395:HIS:CB	2.10	0.60
1:D:2653:SER:OG	1:D:2664:ALA:CB	2.49	0.60
1:A:90:ASN:O	1:A:94:HIS:HB3	2.02	0.60
1:A:2401:ILE:HG21	1:A:2416:LEU:CG	2.28	0.60
1:A:2642:LEU:HD13	1:A:2642:LEU:N	2.15	0.60
1:A:2656:TYR:O	1:A:2660:GLU:CG	2.49	0.60
1:C:2725:GLU:OE1	1:D:2720:LYS:HD3	2.02	0.60
1:B:870:ALA:O	1:B:874:ILE:N	2.34	0.60
1:B:2012:GLY:O	1:B:2013:SER:C	2.45	0.60
1:B:2365:LYS:HE2	1:B:2395:HIS:O	2.02	0.60
1:D:270:GLN:O	1:D:272:ALA:CA	2.50	0.60
1:D:486:GLY:CA	1:D:510:MET:HE1	2.32	0.60
1:D:1291:VAL:O	1:D:1295:PHE:N	2.32	0.60
1:A:2683:LEU:HD13	1:A:2683:LEU:N	2.17	0.60
1:C:571:GLN:HG3	1:C:574:ILE:CD1	2.28	0.60
1:C:2106:SER:O	1:C:2110:GLU:N	2.34	0.60
1:C:2683:LEU:HD13	1:C:2683:LEU:N	2.17	0.60
1:B:2656:TYR:O	1:B:2660:GLU:CG	2.49	0.60
1:D:447:ASN:HB3	1:D:513:GLN:HG3	1.82	0.60
1:D:516:LEU:N	1:D:516:LEU:HD12	2.12	0.60
1:D:525:ALA:HB3	1:D:526:PRO:CD	2.30	0.60
1:D:653:CYS:O	1:D:657:LEU:N	2.31	0.60
1:C:90:ASN:O	1:C:94:HIS:HB3	2.02	0.60
1:C:525:ALA:CB	1:C:526:PRO:HD2	2.30	0.60
1:C:968:MET:O	1:C:972:LEU:N	2.32	0.60
1:B:646:PRO:C	1:B:650:GLU:H	2.08	0.60
1:B:2624:LYS:HB2	1:B:2624:LYS:HZ3	1.64	0.60
1:D:582:GLN:HE21	1:D:582:GLN:HA	1.66	0.60
1:D:2289:LEU:CD1	1:D:2289:LEU:H	2.14	0.60
1:D:2433:SER:HA	1:D:2592:THR:CG2	2.32	0.60
1:A:2110:GLU:O	1:A:2114:TYR:N	2.34	0.60
1:A:2653:SER:OG	1:A:2664:ALA:CB	2.49	0.60
1:A:2692:GLN:O	1:A:2692:GLN:HG2	2.01	0.60
1:C:774:PRO:O	1:C:778:ARG:N	2.33	0.60
1:C:2034:ASN:O	1:C:2038:GLU:N	2.30	0.60
1:C:2622:ASP:CG	1:C:2628:PHE:CD1	2.74	0.60
1:B:143:GLU:HG2	1:B:145:ASN:H	1.67	0.60
1:B:2579:ILE:O	1:B:2580:ILE:O	2.18	0.60
1:D:819:TYR:H	1:D:877:GLY:N	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2058:HIS:O	1:D:2062:GLY:N	2.20	0.60
1:D:2372:PHE:HE2	1:D:2391:GLU:HG3	1.65	0.60
1:D:2433:SER:C	1:D:2434:VAL:CG2	2.72	0.60
1:A:2288:ASN:HA	1:A:2413:TYR:CB	2.28	0.60
1:C:486:GLY:CA	1:C:510:MET:HE1	2.32	0.60
1:B:554:ARG:HH11	1:B:554:ARG:CG	2.13	0.60
1:B:2425:GLU:HA	1:B:2428:LEU:CB	2.31	0.60
1:D:508:LYS:CG	1:D:570:ASN:HD21	2.14	0.60
1:D:2656:TYR:O	1:D:2660:GLU:CG	2.49	0.60
1:A:441:ARG:HH11	1:A:441:ARG:CG	2.15	0.59
1:A:646:PRO:C	1:A:650:GLU:H	2.08	0.59
1:A:2433:SER:HA	1:A:2592:THR:CG2	2.32	0.59
1:A:2579:ILE:O	1:A:2580:ILE:O	2.18	0.59
1:C:2110:GLU:O	1:C:2114:TYR:N	2.34	0.59
1:C:2372:PHE:CD2	1:C:2395:HIS:ND1	2.59	0.59
1:C:2433:SER:HA	1:C:2592:THR:CG2	2.32	0.59
1:B:449:ALA:C	1:B:453:LEU:CG	2.58	0.59
1:B:453:LEU:O	1:B:521:LYS:HE3	2.02	0.59
1:B:486:GLY:CA	1:B:510:MET:HE1	2.32	0.59
1:B:582:GLN:HE21	1:B:582:GLN:HA	1.66	0.59
1:B:2288:ASN:HA	1:B:2413:TYR:CB	2.28	0.59
1:D:275:ALA:CB	2:D:2801:JYP:N4	2.46	0.59
1:D:453:LEU:CB	1:D:521:LYS:HZ3	2.14	0.59
1:D:2558:LYS:O	1:D:2560:GLU:HG3	2.00	0.59
1:D:2579:ILE:O	1:D:2580:ILE:O	2.18	0.59
1:A:143:GLU:HG2	1:A:145:ASN:H	1.67	0.59
1:A:508:LYS:CG	1:A:570:ASN:HD21	2.14	0.59
1:A:570:ASN:CB	1:A:571:GLN:OE1	2.36	0.59
1:A:2365:LYS:HE2	1:A:2395:HIS:O	2.02	0.59
1:A:2716:LEU:H	1:A:2716:LEU:CD2	1.93	0.59
1:C:441:ARG:HH11	1:C:441:ARG:CG	2.15	0.59
1:C:887:LEU:O	1:C:888:THR:C	2.42	0.59
1:C:2528:CYS:HA	1:B:2558:LYS:HE3	1.84	0.59
1:C:2558:LYS:O	1:C:2560:GLU:HG3	2.00	0.59
1:B:2378:THR:HG23	1:B:2378:THR:O	2.00	0.59
1:D:270:GLN:C	1:D:272:ALA:H	2.10	0.59
1:D:514:ASN:C	1:D:516:LEU:H	2.05	0.59
1:A:449:ALA:C	1:A:453:LEU:CG	2.59	0.59
1:A:1406:ILE:N	1:A:1445:ASN:CA	2.66	0.59
1:C:165:PRO:HG2	1:C:168:LYS:HA	1.82	0.59
1:C:2549:VAL:HG21	1:C:2574:PHE:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:517:LYS:HA	1:B:517:LYS:HZ2	1.66	0.59
1:B:2289:LEU:HD13	1:B:2289:LEU:H	1.67	0.59
1:A:653:CYS:O	1:A:657:LEU:N	2.31	0.59
1:A:1807:LEU:O	1:A:1811:LEU:N	2.32	0.59
1:A:2012:GLY:O	1:A:2013:SER:C	2.45	0.59
1:A:2549:VAL:HG21	1:A:2574:PHE:HA	1.84	0.59
1:C:2277:SER:O	1:C:2281:PHE:CD2	2.54	0.59
1:C:2289:LEU:HD13	1:C:2289:LEU:H	1.67	0.59
1:C:2425:GLU:HA	1:C:2428:LEU:CB	2.31	0.59
1:C:2710:THR:CG2	1:C:2711:ASN:ND2	2.64	0.59
1:B:165:PRO:HG2	1:B:168:LYS:HA	1.82	0.59
1:B:2030:VAL:O	1:B:2034:ASN:N	2.32	0.59
1:B:2372:PHE:HE2	1:B:2391:GLU:HG3	1.65	0.59
1:D:886:ARG:O	1:D:889:LYS:C	2.44	0.59
1:D:1406:ILE:N	1:D:1445:ASN:CA	2.66	0.59
1:D:2012:GLY:O	1:D:2013:SER:C	2.45	0.59
1:A:2349:GLY:C	1:A:2351:GLN:N	2.50	0.59
1:A:2586:PHE:CZ	1:D:2583:ASN:HB2	2.36	0.59
1:A:2622:ASP:OD1	1:A:2628:PHE:CG	2.55	0.59
1:C:32:LEU:CB	1:C:445:PHE:CZ	2.85	0.59
1:C:1406:ILE:N	1:C:1445:ASN:CA	2.66	0.59
1:C:2623:ASN:ND2	1:B:2677:ARG:NH2	2.50	0.59
1:B:2401:ILE:HG21	1:B:2416:LEU:CG	2.28	0.59
1:D:2213:PRO:CD	1:D:2647:LEU:CG	2.79	0.59
1:D:2348:VAL:HG12	1:D:2353:THR:HB	1.72	0.59
1:A:453:LEU:O	1:A:521:LYS:HE3	2.02	0.59
1:A:486:GLY:CA	1:A:510:MET:HE1	2.32	0.59
1:A:774:PRO:O	1:A:778:ARG:N	2.33	0.59
1:A:2427:LEU:HD11	1:D:2447:LEU:HD13	1.83	0.59
1:C:453:LEU:O	1:C:521:LYS:HE3	2.02	0.59
1:C:2283:LEU:HD13	1:C:2364:ASN:ND2	2.18	0.59
1:B:1961:ALA:C	1:B:1963:ILE:N	2.59	0.59
1:A:525:ALA:HB3	1:A:526:PRO:CD	2.30	0.59
1:A:2277:SER:O	1:A:2281:PHE:CD2	2.54	0.59
1:C:2012:GLY:O	1:C:2013:SER:C	2.45	0.59
1:C:2213:PRO:CD	1:C:2647:LEU:CG	2.79	0.59
1:B:508:LYS:CG	1:B:570:ASN:HD21	2.14	0.59
1:B:2559:GLU:C	1:B:2563:PHE:CE1	2.81	0.59
1:B:2581:VAL:HA	1:B:2584:LEU:HB2	1.82	0.59
1:D:998:LYS:O	1:D:999:ARG:C	2.43	0.59
1:D:2289:LEU:HD13	1:D:2289:LEU:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:LEU:CB	1:A:445:PHE:CZ	2.85	0.59
1:A:74:LYS:HA	1:A:74:LYS:HZ3	1.66	0.59
1:A:288:GLN:NE2	1:A:290:ASP:O	2.36	0.59
1:C:2036:THR:O	1:C:2040:LEU:N	2.33	0.59
1:B:571:GLN:HG3	1:B:574:ILE:CD1	2.28	0.59
1:B:2106:SER:O	1:B:2110:GLU:N	2.34	0.59
1:B:2271:ARG:CZ	1:B:2272:ASN:HD21	2.14	0.59
1:B:2368:PHE:HZ	1:B:2395:HIS:CD2	1.95	0.59
1:B:2655:GLU:OE1	1:B:2655:GLU:N	2.18	0.59
1:A:547:ALA:HB3	1:A:548:PRO:HD2	1.68	0.59
1:A:2239:LYS:HZ2	1:A:2677:ARG:CD	2.14	0.59
1:A:2271:ARG:HH12	1:A:2272:ASN:ND2	1.89	0.59
1:C:453:LEU:HA	1:C:521:LYS:HZ3	1.64	0.59
1:C:508:LYS:CG	1:C:570:ASN:HD21	2.14	0.59
1:C:520:PHE:HE1	1:C:523:LEU:CD1	2.13	0.59
1:C:998:LYS:O	1:C:1002:ASP:N	2.33	0.59
1:C:1817:SER:O	1:C:1821:PHE:N	2.36	0.59
1:C:2388:LEU:HD23	1:C:2388:LEU:N	2.08	0.59
1:B:90:ASN:O	1:B:94:HIS:HB3	2.02	0.59
1:B:1406:ILE:N	1:B:1445:ASN:CA	2.66	0.59
1:D:441:ARG:HH11	1:D:441:ARG:CG	2.15	0.59
1:D:2558:LYS:O	1:D:2560:GLU:N	2.36	0.59
1:A:520:PHE:HE1	1:A:523:LEU:CD1	2.13	0.59
1:A:1097:PHE:C	1:A:1099:GLN:N	2.61	0.59
1:A:2345:ILE:CG2	1:A:2353:THR:HG1	2.10	0.59
1:A:2372:PHE:HE2	1:A:2391:GLU:HG3	1.65	0.59
1:C:2626:VAL:CG1	1:C:2627:THR:N	1.88	0.59
1:B:147:MET:HB2	1:B:211:SER:HB3	1.85	0.59
1:B:998:LYS:O	1:B:1002:ASP:N	2.33	0.59
1:D:32:LEU:CB	1:D:445:PHE:CZ	2.85	0.59
1:A:2283:LEU:HD13	1:A:2364:ASN:ND2	2.18	0.58
1:C:73:TRP:C	1:C:75:ALA:N	2.58	0.58
1:C:2348:VAL:HB	1:C:2353:THR:HG22	1.81	0.58
1:B:1197:SER:O	1:B:1201:GLN:N	2.36	0.58
1:B:2283:LEU:HD13	1:B:2364:ASN:ND2	2.18	0.58
1:D:103:ASN:HA	1:D:106:GLU:OE1	2.03	0.58
1:D:2549:VAL:HG21	1:D:2574:PHE:HA	1.84	0.58
1:A:1126:VAL:O	1:A:1130:GLU:N	2.27	0.58
1:A:2559:GLU:C	1:A:2563:PHE:CE1	2.81	0.58
1:C:89:LEU:O	1:C:92:LEU:HD22	1.87	0.58
1:C:2372:PHE:HE2	1:C:2391:GLU:HG3	1.65	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2558:LYS:O	1:C:2560:GLU:N	2.36	0.58
1:C:2715:GLN:OE1	1:C:2718:GLU:CD	2.42	0.58
1:B:270:GLN:C	1:B:272:ALA:H	2.10	0.58
1:B:1334:LEU:O	1:B:1338:GLY:CA	2.51	0.58
1:B:1810:ASP:O	1:B:1814:ASN:N	2.36	0.58
1:D:90:ASN:O	1:D:94:HIS:HB3	2.02	0.58
1:D:143:GLU:HG2	1:D:145:ASN:H	1.67	0.58
1:D:1334:LEU:O	1:D:1338:GLY:CA	2.51	0.58
1:A:305:PHE:HB2	1:A:314:LEU:HB3	1.86	0.58
1:A:1619:VAL:C	1:A:1621:ALA:H	2.05	0.58
1:A:2240:ILE:O	1:A:2241:ASN:C	2.43	0.58
1:C:1334:LEU:O	1:C:1338:GLY:CA	2.51	0.58
1:C:2559:GLU:C	1:C:2563:PHE:CE1	2.81	0.58
1:B:2243:PHE:CD1	1:B:2642:LEU:CD1	2.67	0.58
1:B:2549:VAL:HG21	1:B:2574:PHE:HA	1.84	0.58
1:D:147:MET:HB2	1:D:211:SER:HB3	1.85	0.58
1:A:147:MET:HB2	1:A:211:SER:HB3	1.85	0.58
1:A:2239:LYS:CG	1:A:2240:ILE:N	2.54	0.58
1:C:2033:ILE:O	1:C:2037:LEU:N	2.31	0.58
1:B:288:GLN:NE2	1:B:290:ASP:O	2.36	0.58
1:B:2277:SER:O	1:B:2281:PHE:CD2	2.54	0.58
1:D:520:PHE:HE1	1:D:523:LEU:CD1	2.13	0.58
1:D:2034:ASN:O	1:D:2038:GLU:N	2.30	0.58
1:D:2283:LEU:HD13	1:D:2364:ASN:ND2	2.18	0.58
1:A:2549:VAL:HG23	1:A:2573:PHE:HD2	1.69	0.58
1:C:2103:ARG:C	1:C:2105:ASP:H	2.09	0.58
1:B:305:PHE:HB2	1:B:314:LEU:HB3	1.86	0.58
1:B:819:TYR:N	1:B:877:GLY:HA3	2.18	0.58
1:B:1961:ALA:O	1:B:1963:ILE:N	2.37	0.58
1:B:2213:PRO:CD	1:B:2647:LEU:CG	2.79	0.58
1:B:2649:LYS:HA	1:B:2649:LYS:HZ3	1.64	0.58
1:B:2716:LEU:H	1:B:2716:LEU:CD2	1.93	0.58
1:D:569:LYS:CE	2:D:2801:JYP:C10	2.72	0.58
1:D:602:ASN:O	1:D:603:ARG:O	2.22	0.58
1:D:1810:ASP:O	1:D:1814:ASN:N	2.36	0.58
1:A:453:LEU:HA	1:A:521:LYS:HZ3	1.65	0.58
1:A:1197:SER:O	1:A:1201:GLN:N	2.36	0.58
1:C:646:PRO:C	1:C:650:GLU:H	2.08	0.58
1:C:1810:ASP:O	1:C:1814:ASN:N	2.36	0.58
1:B:32:LEU:CB	1:B:445:PHE:CZ	2.85	0.58
1:B:1113:LYS:O	1:B:1117:GLN:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2273:MET:HB2	1:B:2371:SER:HG	1.60	0.58
1:B:2368:PHE:HE2	1:B:2395:HIS:CB	2.10	0.58
1:B:2626:VAL:CG1	1:B:2627:THR:N	1.88	0.58
1:D:2365:LYS:HZ1	1:D:2395:HIS:CB	2.17	0.58
1:D:2621:PHE:HA	1:D:2624:LYS:HG2	1.86	0.58
1:A:103:ASN:HA	1:A:106:GLU:OE1	2.03	0.58
1:A:1334:LEU:O	1:A:1338:GLY:CA	2.51	0.58
1:A:2370:MET:N	1:A:2370:MET:SD	2.77	0.58
1:A:2430:VAL:HG12	1:A:2593:PHE:CE1	2.39	0.58
1:A:2621:PHE:HA	1:A:2624:LYS:HG2	1.86	0.58
1:A:2700:GLU:HG2	1:B:2702:LEU:HD11	1.71	0.58
1:C:270:GLN:C	1:C:272:ALA:H	2.10	0.58
1:C:288:GLN:NE2	1:C:290:ASP:O	2.36	0.58
1:C:569:LYS:CE	2:C:2801:JYP:C10	2.72	0.58
1:C:1097:PHE:C	1:C:1099:GLN:N	2.61	0.58
1:C:2621:PHE:HA	1:C:2624:LYS:HG2	1.86	0.58
1:B:103:ASN:HA	1:B:106:GLU:OE1	2.03	0.58
1:B:2213:PRO:CB	1:B:2647:LEU:HD13	2.34	0.58
1:B:2558:LYS:O	1:B:2560:GLU:N	2.36	0.58
1:B:2621:PHE:HA	1:B:2624:LYS:HG2	1.86	0.58
1:D:2288:ASN:HD21	1:D:2417:LEU:CB	1.91	0.58
1:D:2370:MET:N	1:D:2370:MET:SD	2.77	0.58
1:D:2430:VAL:HG12	1:D:2593:PHE:CE1	2.39	0.58
1:A:2058:HIS:O	1:A:2062:GLY:N	2.20	0.58
1:C:147:MET:HB2	1:C:211:SER:HB3	1.85	0.58
1:C:263:PHE:CE2	1:C:265:ARG:NE	2.58	0.58
1:C:305:PHE:HB2	1:C:314:LEU:HB3	1.86	0.58
1:C:2372:PHE:HD2	1:C:2395:HIS:CE1	2.22	0.58
1:B:1817:SER:O	1:B:1821:PHE:N	2.36	0.58
1:B:2033:ILE:O	1:B:2037:LEU:N	2.31	0.58
1:D:564:GLN:HB2	1:D:574:ILE:CD1	2.33	0.58
1:D:1456:VAL:C	1:D:1507:PRO:O	2.47	0.58
1:D:2372:PHE:HD2	1:D:2395:HIS:CE1	2.22	0.58
1:A:886:ARG:O	1:A:889:LYS:C	2.44	0.58
1:A:2046:GLY:O	1:A:2047:PRO:C	2.46	0.58
1:A:2213:PRO:CB	1:A:2647:LEU:HD13	2.34	0.58
1:A:2427:LEU:HD12	1:A:2430:VAL:HG23	1.85	0.58
1:C:1116:LYS:O	1:C:1117:GLN:C	2.47	0.58
1:C:1197:SER:O	1:C:1201:GLN:N	2.36	0.58
1:B:887:LEU:O	1:B:888:THR:C	2.42	0.58
1:B:969:ASP:O	1:B:973:LYS:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2036:THR:O	1:B:2040:LEU:N	2.33	0.58
1:D:1197:SER:O	1:D:1201:GLN:N	2.36	0.58
1:D:2559:GLU:C	1:D:2563:PHE:CE1	2.81	0.58
1:C:143:GLU:HG2	1:C:145:ASN:H	1.67	0.58
1:C:2370:MET:N	1:C:2370:MET:SD	2.77	0.58
1:A:60:LEU:HG	1:A:115:ILE:HD13	1.86	0.57
1:A:269:ARG:HD3	1:A:272:ALA:HB3	1.86	0.57
1:A:602:ASN:O	1:A:603:ARG:O	2.22	0.57
1:A:1810:ASP:O	1:A:1814:ASN:N	2.36	0.57
1:A:2558:LYS:O	1:A:2560:GLU:N	2.36	0.57
1:C:304:ARG:NH1	1:C:366:SER:OG	2.37	0.57
1:C:2213:PRO:CB	1:C:2647:LEU:HD13	2.34	0.57
1:B:441:ARG:HH11	1:B:441:ARG:CG	2.15	0.57
1:D:288:GLN:NE2	1:D:290:ASP:O	2.36	0.57
1:D:1116:LYS:O	1:D:1117:GLN:C	2.47	0.57
1:D:2192:HIS:CG	1:D:2211:PRO:HA	2.39	0.57
1:D:2370:MET:HE3	1:D:2370:MET:CA	2.19	0.57
1:D:2710:THR:HG23	1:D:2711:ASN:N	2.18	0.57
1:A:252:THR:N	1:A:263:PHE:O	2.36	0.57
1:A:514:ASN:C	1:A:516:LEU:H	2.05	0.57
1:A:1961:ALA:C	1:A:1963:ILE:N	2.59	0.57
1:A:2289:LEU:HD13	1:A:2289:LEU:H	1.67	0.57
1:C:1291:VAL:O	1:C:1295:PHE:N	2.32	0.57
1:C:2192:HIS:CG	1:C:2211:PRO:HA	2.39	0.57
1:C:2239:LYS:HZ3	1:C:2677:ARG:CD	2.08	0.57
1:B:60:LEU:HG	1:B:115:ILE:HD13	1.86	0.57
1:B:974:ILE:O	1:B:978:LEU:N	2.35	0.57
1:B:2348:VAL:HG21	1:B:2353:THR:HG22	1.78	0.57
1:B:2549:VAL:HG23	1:B:2573:PHE:HD2	1.69	0.57
1:D:2715:GLN:OE1	1:D:2718:GLU:CD	2.42	0.57
1:A:270:GLN:O	1:A:272:ALA:CA	2.50	0.57
1:A:971:LYS:O	1:A:975:ILE:N	2.38	0.57
1:A:2560:GLU:HG2	1:A:2563:PHE:CE2	2.16	0.57
1:C:2407:PHE:N	1:C:2407:PHE:HD1	2.02	0.57
1:B:2365:LYS:HZ3	1:B:2395:HIS:HA	1.68	0.57
1:D:305:PHE:HB2	1:D:314:LEU:HB3	1.86	0.57
1:D:2618:ARG:HD2	1:D:2628:PHE:HZ	1.69	0.57
1:D:2622:ASP:CG	1:D:2628:PHE:CE1	2.61	0.57
1:A:2372:PHE:HD2	1:A:2395:HIS:CE1	2.22	0.57
1:A:2407:PHE:H	1:A:2407:PHE:HD1	1.52	0.57
1:A:2407:PHE:HD1	1:A:2407:PHE:N	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2250:LEU:HD13	1:C:2250:LEU:C	2.28	0.57
1:C:2427:LEU:HD12	1:C:2430:VAL:HG23	1.85	0.57
1:C:2583:ASN:HD22	1:D:2586:PHE:CB	2.17	0.57
1:B:1291:VAL:O	1:B:1295:PHE:N	2.32	0.57
1:D:453:LEU:O	1:D:521:LYS:HE3	2.02	0.57
1:D:525:ALA:CB	1:D:526:PRO:HD2	2.30	0.57
1:D:1961:ALA:O	1:D:1963:ILE:N	2.37	0.57
1:D:2401:ILE:HG21	1:D:2416:LEU:CG	2.28	0.57
1:D:2407:PHE:N	1:D:2407:PHE:HD1	2.02	0.57
1:A:2368:PHE:HE2	1:A:2395:HIS:CB	2.10	0.57
1:A:2700:GLU:OE1	1:B:2699:GLN:CG	2.52	0.57
1:C:74:LYS:HA	1:C:74:LYS:HZ3	1.62	0.57
1:B:304:ARG:NH1	1:B:366:SER:OG	2.37	0.57
1:B:602:ASN:O	1:B:603:ARG:O	2.22	0.57
1:B:2046:GLY:O	1:B:2047:PRO:C	2.46	0.57
1:B:2372:PHE:HD2	1:B:2395:HIS:CE1	2.22	0.57
1:B:2407:PHE:N	1:B:2407:PHE:HD1	2.02	0.57
1:B:2427:LEU:HD12	1:B:2430:VAL:HG23	1.85	0.57
1:B:2710:THR:HG23	1:B:2711:ASN:N	2.18	0.57
1:B:2710:THR:CG2	1:B:2711:ASN:ND2	2.64	0.57
1:D:2213:PRO:CB	1:D:2647:LEU:HD13	2.34	0.57
1:D:2277:SER:O	1:D:2281:PHE:CD2	2.54	0.57
1:A:73:TRP:C	1:A:75:ALA:N	2.58	0.57
1:A:1456:VAL:C	1:A:1507:PRO:O	2.47	0.57
1:C:1113:LYS:O	1:C:1117:GLN:N	2.37	0.57
1:C:2586:PHE:CB	1:B:2583:ASN:HD22	2.17	0.57
1:B:269:ARG:HD3	1:B:272:ALA:HB3	1.87	0.57
1:B:2349:GLY:C	1:B:2351:GLN:H	2.12	0.57
1:B:2370:MET:N	1:B:2370:MET:SD	2.77	0.57
1:B:2571:LEU:C	1:B:2571:LEU:HD22	2.30	0.57
1:D:269:ARG:HG2	1:D:272:ALA:HB3	1.86	0.57
1:A:2192:HIS:CG	1:A:2211:PRO:HA	2.39	0.57
1:A:2271:ARG:CZ	1:A:2272:ASN:HD21	2.14	0.57
1:A:2571:LEU:HD22	1:A:2571:LEU:C	2.30	0.57
1:C:514:ASN:HB3	1:C:517:LYS:N	2.06	0.57
1:C:602:ASN:O	1:C:603:ARG:O	2.22	0.57
1:C:1961:ALA:O	1:C:1963:ILE:N	2.37	0.57
1:C:2430:VAL:HG12	1:C:2593:PHE:CE1	2.39	0.57
1:B:2284:ALA:O	1:B:2287:MET:CB	2.41	0.57
1:D:525:ALA:CB	1:D:526:PRO:CD	2.83	0.57
1:D:2656:TYR:O	1:D:2660:GLU:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:525:ALA:CB	1:A:526:PRO:CD	2.83	0.57
1:A:1113:LYS:O	1:A:1117:GLN:N	2.37	0.57
1:A:1961:ALA:O	1:A:1963:ILE:N	2.37	0.57
1:A:2349:GLY:C	1:A:2351:GLN:H	2.12	0.57
1:C:103:ASN:HA	1:C:106:GLU:OE1	2.03	0.57
1:C:554:ARG:HH11	1:C:554:ARG:CG	2.12	0.57
1:C:2370:MET:HE3	1:C:2370:MET:CA	2.19	0.57
1:B:270:GLN:HE21	1:B:271:SER:N	1.96	0.57
1:B:964:ASP:O	1:B:968:MET:N	2.36	0.57
1:B:2239:LYS:HZ3	1:B:2677:ARG:NE	2.03	0.57
1:B:2430:VAL:HG12	1:B:2593:PHE:CE1	2.39	0.57
1:D:510:MET:C	1:D:515:ILE:HG21	2.28	0.57
1:D:974:ILE:O	1:D:978:LEU:N	2.35	0.57
1:D:1817:SER:O	1:D:1821:PHE:N	2.36	0.57
1:A:2348:VAL:CB	1:A:2353:THR:HG22	2.31	0.57
1:A:2618:ARG:HD2	1:A:2628:PHE:CE2	2.40	0.57
1:A:2706:MET:HB3	1:D:2707:LYS:HD3	1.87	0.57
1:A:2710:THR:HG23	1:A:2711:ASN:N	2.18	0.57
1:C:525:ALA:CB	1:C:526:PRO:CD	2.83	0.57
1:C:2243:PHE:HZ	1:C:2638:MET:CB	2.03	0.57
1:C:2281:PHE:HB2	1:C:2420:LEU:HD22	1.87	0.57
1:C:2407:PHE:H	1:C:2407:PHE:HD1	1.52	0.57
1:B:1456:VAL:C	1:B:1507:PRO:O	2.47	0.57
1:D:1097:PHE:C	1:D:1099:GLN:N	2.61	0.57
1:D:1113:LYS:O	1:D:1117:GLN:N	2.37	0.57
1:D:2549:VAL:HG23	1:D:2573:PHE:HD2	1.69	0.57
1:A:304:ARG:NH1	1:A:366:SER:OG	2.37	0.57
1:A:998:LYS:O	1:A:1002:ASP:N	2.33	0.57
1:A:2250:LEU:HD13	1:A:2250:LEU:C	2.28	0.57
1:B:269:ARG:HG2	1:B:272:ALA:HB3	1.86	0.57
1:B:564:GLN:HB2	1:B:574:ILE:CD1	2.33	0.57
1:B:2407:PHE:H	1:B:2407:PHE:HD1	1.52	0.57
1:B:2618:ARG:HD2	1:B:2628:PHE:CE2	2.40	0.57
1:D:2571:LEU:HD22	1:D:2571:LEU:C	2.30	0.57
1:D:2618:ARG:HD2	1:D:2628:PHE:CE2	2.40	0.57
1:A:564:GLN:HB2	1:A:574:ILE:CD1	2.33	0.56
1:A:876:PHE:O	1:A:880:ASN:CA	2.53	0.56
1:A:2591:ASP:OD1	1:B:2597:ARG:NH1	2.38	0.56
1:C:823:GLY:O	1:C:825:SER:N	2.38	0.56
1:C:1456:VAL:C	1:C:1507:PRO:O	2.47	0.56
1:C:2571:LEU:C	1:C:2571:LEU:HD22	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2656:TYR:O	1:C:2660:GLU:HG2	2.05	0.56
1:B:2411:PHE:CD2	1:B:2411:PHE:N	2.73	0.56
1:D:823:GLY:O	1:D:825:SER:N	2.38	0.56
1:D:876:PHE:O	1:D:880:ASN:CA	2.53	0.56
1:D:2558:LYS:C	1:D:2560:GLU:N	2.53	0.56
1:D:2575:PHE:CD1	1:D:2575:PHE:C	2.83	0.56
1:D:2710:THR:CG2	1:D:2711:ASN:ND2	2.64	0.56
1:A:269:ARG:HG2	1:A:272:ALA:HB3	1.86	0.56
1:A:998:LYS:O	1:A:999:ARG:C	2.43	0.56
1:A:2273:MET:CA	1:A:2276:TRP:CD1	2.71	0.56
1:A:2626:VAL:CG1	1:A:2627:THR:N	1.88	0.56
1:B:823:GLY:O	1:B:825:SER:N	2.38	0.56
1:B:2360:PHE:O	1:B:2364:ASN:CG	2.49	0.56
1:B:2736:LEU:HD23	1:B:2736:LEU:C	2.30	0.56
1:D:2427:LEU:HD12	1:D:2430:VAL:HG23	1.85	0.56
1:A:646:PRO:C	1:A:649:GLN:H	2.02	0.56
1:A:887:LEU:O	1:A:888:THR:C	2.42	0.56
1:A:1116:LYS:O	1:A:1117:GLN:C	2.47	0.56
1:A:2273:MET:HB2	1:A:2371:SER:HG	1.62	0.56
1:A:2281:PHE:HB2	1:A:2420:LEU:HD22	1.87	0.56
1:A:2549:VAL:HG22	1:A:2574:PHE:HA	1.86	0.56
1:C:60:LEU:HG	1:C:115:ILE:HD13	1.86	0.56
1:C:269:ARG:HD3	1:C:272:ALA:HB3	1.86	0.56
1:C:564:GLN:HB2	1:C:574:ILE:CD1	2.33	0.56
1:C:2549:VAL:HG23	1:C:2573:PHE:HD2	1.69	0.56
1:C:2583:ASN:ND2	1:D:2586:PHE:CG	2.74	0.56
1:C:2710:THR:HG23	1:C:2711:ASN:N	2.18	0.56
1:B:1116:LYS:O	1:B:1117:GLN:C	2.47	0.56
1:B:2192:HIS:CG	1:B:2211:PRO:HA	2.40	0.56
1:B:2407:PHE:N	1:B:2407:PHE:CD1	2.72	0.56
1:B:2452:VAL:CG2	1:B:2573:PHE:CZ	2.88	0.56
1:B:2571:LEU:HD13	1:B:2572:LEU:HG	1.88	0.56
1:B:2656:TYR:O	1:B:2660:GLU:HG2	2.05	0.56
1:D:887:LEU:O	1:D:888:THR:C	2.42	0.56
1:D:2271:ARG:CZ	1:D:2272:ASN:HD21	2.14	0.56
1:A:447:ASN:HB3	1:A:513:GLN:CG	2.35	0.56
1:A:453:LEU:HB3	1:A:521:LYS:HZ3	1.70	0.56
1:A:2411:PHE:N	1:A:2411:PHE:CD2	2.73	0.56
1:A:2618:ARG:HD2	1:A:2628:PHE:HZ	1.68	0.56
1:A:2715:GLN:CD	1:B:2713:SER:HB3	2.30	0.56
1:C:453:LEU:HB3	1:C:521:LYS:HZ3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:876:PHE:O	1:C:880:ASN:CA	2.53	0.56
1:C:2213:PRO:HA	1:C:2647:LEU:HD13	1.88	0.56
1:C:2411:PHE:CD2	1:C:2411:PHE:N	2.73	0.56
1:C:2624:LYS:HB2	1:C:2624:LYS:HZ3	1.68	0.56
1:B:73:TRP:C	1:B:75:ALA:N	2.58	0.56
1:D:60:LEU:HG	1:D:115:ILE:HD13	1.86	0.56
1:D:447:ASN:HB3	1:D:513:GLN:CG	2.35	0.56
1:D:819:TYR:N	1:D:877:GLY:HA3	2.18	0.56
1:D:2707:LYS:HE3	1:D:2711:ASN:OD1	2.06	0.56
1:D:2720:LYS:HZ1	1:D:2723:MET:HE3	1.70	0.56
1:A:2736:LEU:HD23	1:A:2736:LEU:C	2.30	0.56
1:C:252:THR:N	1:C:263:PHE:O	2.36	0.56
1:C:269:ARG:HG2	1:C:272:ALA:HB3	1.86	0.56
1:C:447:ASN:HB3	1:C:513:GLN:CG	2.35	0.56
1:C:2716:LEU:H	1:C:2716:LEU:CD2	1.93	0.56
1:B:525:ALA:CB	1:B:526:PRO:CD	2.83	0.56
1:B:876:PHE:O	1:B:880:ASN:CA	2.53	0.56
1:B:2213:PRO:HA	1:B:2647:LEU:HD13	1.88	0.56
1:D:304:ARG:NH1	1:D:366:SER:OG	2.37	0.56
1:D:514:ASN:C	1:D:517:LYS:H	2.14	0.56
1:D:1356:GLN:N	1:D:1416:ILE:O	2.38	0.56
1:D:2250:LEU:HD13	1:D:2250:LEU:C	2.28	0.56
1:D:2278:SER:O	1:D:2281:PHE:CG	2.58	0.56
1:D:2549:VAL:HG22	1:D:2574:PHE:HA	1.86	0.56
1:D:2736:LEU:HD23	1:D:2736:LEU:C	2.30	0.56
1:A:90:ASN:CA	1:A:93:HIS:CE1	2.80	0.56
1:A:2030:VAL:O	1:A:2034:ASN:N	2.32	0.56
1:C:514:ASN:C	1:C:517:LYS:H	2.14	0.56
1:C:570:ASN:CB	1:C:571:GLN:OE1	2.36	0.56
1:C:971:LYS:O	1:C:975:ILE:N	2.38	0.56
1:C:2528:CYS:HA	1:B:2558:LYS:CE	2.36	0.56
1:B:1356:GLN:N	1:B:1416:ILE:O	2.38	0.56
1:B:2250:LEU:HD13	1:B:2250:LEU:C	2.28	0.56
1:D:104:GLU:O	1:D:106:GLU:N	2.33	0.56
1:D:269:ARG:HD3	1:D:272:ALA:HB3	1.87	0.56
1:D:2360:PHE:O	1:D:2364:ASN:CG	2.48	0.56
1:D:2407:PHE:H	1:D:2407:PHE:HD1	1.52	0.56
1:D:2411:PHE:N	1:D:2411:PHE:CD2	2.73	0.56
1:A:823:GLY:O	1:A:825:SER:N	2.38	0.56
1:C:2286:LEU:HA	1:C:2289:LEU:HD11	1.88	0.56
1:C:2401:ILE:HG21	1:C:2416:LEU:CG	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:447:ASN:HB3	1:B:513:GLN:CG	2.35	0.56
1:B:971:LYS:O	1:B:975:ILE:N	2.38	0.56
1:A:2216:CYS:HG	1:A:2646:VAL:CG2	2.17	0.56
1:A:2407:PHE:N	1:A:2407:PHE:CD1	2.72	0.56
1:A:2571:LEU:HD13	1:A:2572:LEU:HG	1.88	0.56
1:C:449:ALA:C	1:C:453:LEU:CG	2.59	0.56
1:C:886:ARG:O	1:C:889:LYS:C	2.44	0.56
1:C:998:LYS:O	1:C:999:ARG:C	2.43	0.56
1:D:77:LYS:N	1:D:77:LYS:HD3	2.21	0.56
1:D:2372:PHE:CD2	1:D:2395:HIS:ND1	2.59	0.56
1:A:77:LYS:N	1:A:77:LYS:HD3	2.21	0.56
1:A:964:ASP:O	1:A:968:MET:N	2.36	0.56
1:A:2360:PHE:O	1:A:2364:ASN:CG	2.48	0.56
1:A:2370:MET:HE3	1:A:2370:MET:CA	2.19	0.56
1:A:2707:LYS:HE3	1:A:2711:ASN:OD1	2.06	0.56
1:C:646:PRO:C	1:C:648:THR:H	1.72	0.56
1:C:2736:LEU:HD23	1:C:2736:LEU:C	2.30	0.56
1:B:2726:GLN:HA	1:B:2726:GLN:OE1	2.05	0.56
1:D:64:ASN:ND2	1:D:107:ASN:HD21	2.04	0.56
1:D:547:ALA:CB	1:D:548:PRO:CD	2.17	0.56
1:D:2286:LEU:HA	1:D:2289:LEU:HD11	1.88	0.56
1:A:819:TYR:N	1:A:877:GLY:HA3	2.18	0.56
1:A:2286:LEU:HA	1:A:2289:LEU:HD11	1.88	0.56
1:C:104:GLU:C	1:C:106:GLU:N	2.64	0.56
1:C:1030:PHE:O	1:C:1034:GLU:N	2.39	0.56
1:C:2618:ARG:HD2	1:C:2628:PHE:CE2	2.40	0.56
1:C:2696:ARG:NH2	1:D:2696:ARG:NH2	2.53	0.56
1:B:514:ASN:C	1:B:517:LYS:H	2.14	0.56
1:B:1836:ASN:O	1:B:1840:GLN:N	2.33	0.56
1:B:2281:PHE:HB2	1:B:2420:LEU:HD22	1.86	0.56
1:D:380:SER:O	1:D:380:SER:OG	2.24	0.56
1:D:452:VAL:O	1:D:453:LEU:C	2.49	0.56
1:D:2345:ILE:CD1	1:D:2353:THR:OG1	2.54	0.56
1:A:128:SER:HA	1:A:445:PHE:CZ	2.41	0.55
1:A:270:GLN:C	1:A:272:ALA:H	2.10	0.55
1:A:2656:TYR:O	1:A:2660:GLU:HG2	2.05	0.55
1:C:516:LEU:HD13	1:C:517:LYS:HE2	1.88	0.55
1:C:2433:SER:HA	1:C:2592:THR:HG21	1.88	0.55
1:C:2571:LEU:HD13	1:C:2572:LEU:HG	1.88	0.55
1:B:64:ASN:ND2	1:B:107:ASN:HD21	2.04	0.55
1:B:128:SER:HA	1:B:445:PHE:CZ	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2348:VAL:HB	1:B:2353:THR:HG22	1.81	0.55
1:D:128:SER:HA	1:D:445:PHE:CZ	2.41	0.55
1:D:516:LEU:HD13	1:D:517:LYS:HE2	1.88	0.55
1:D:2407:PHE:N	1:D:2407:PHE:CD1	2.72	0.55
1:D:2425:GLU:CA	1:D:2428:LEU:HB3	2.36	0.55
1:D:2726:GLN:OE1	1:D:2726:GLN:HA	2.05	0.55
1:A:64:ASN:ND2	1:A:107:ASN:HD21	2.04	0.55
1:A:508:LYS:CE	1:A:511:ARG:HH11	2.15	0.55
1:A:2433:SER:C	1:A:2434:VAL:HG23	2.31	0.55
1:C:128:SER:HA	1:C:445:PHE:CZ	2.41	0.55
1:C:819:TYR:N	1:C:877:GLY:HA3	2.18	0.55
1:B:516:LEU:HD13	1:B:517:LYS:HE2	1.88	0.55
1:B:2345:ILE:HD12	1:B:2353:THR:OG1	2.06	0.55
1:B:2388:LEU:HD23	1:B:2388:LEU:N	2.09	0.55
1:B:2433:SER:HA	1:B:2592:THR:HG21	1.88	0.55
1:B:2727:ARG:CZ	1:B:2727:ARG:CA	2.85	0.55
1:D:2046:GLY:O	1:D:2047:PRO:C	2.46	0.55
1:D:2239:LYS:HG2	1:D:2240:ILE:CD1	2.37	0.55
1:D:2281:PHE:HB2	1:D:2420:LEU:HD22	1.87	0.55
1:A:516:LEU:HD13	1:A:517:LYS:HE2	1.88	0.55
1:A:2425:GLU:CA	1:A:2428:LEU:HB3	2.36	0.55
1:A:2706:MET:HB3	1:D:2707:LYS:CD	2.36	0.55
1:A:2726:GLN:OE1	1:A:2726:GLN:HA	2.05	0.55
1:C:64:ASN:ND2	1:C:107:ASN:HD21	2.04	0.55
1:C:2360:PHE:O	1:C:2364:ASN:CG	2.48	0.55
1:C:2427:LEU:HD21	1:B:2447:LEU:HD12	1.87	0.55
1:B:263:PHE:CE2	1:B:265:ARG:NE	2.58	0.55
1:B:2649:LYS:CE	1:B:2649:LYS:CA	2.84	0.55
1:D:310:THR:HB	1:D:312:HIS:HD2	1.72	0.55
1:D:2388:LEU:HD23	1:D:2388:LEU:N	2.09	0.55
1:A:2345:ILE:CG2	1:A:2348:VAL:HG11	2.37	0.55
1:A:2412:PHE:C	1:A:2414:SER:H	2.14	0.55
1:C:2345:ILE:CD1	1:C:2353:THR:OG1	2.54	0.55
1:C:2618:ARG:HD2	1:C:2628:PHE:HZ	1.68	0.55
1:C:2632:ILE:HD12	1:C:2633:LYS:HD2	1.89	0.55
1:B:185:ASN:ND2	1:B:190:GLY:O	2.39	0.55
1:B:441:ARG:CZ	1:B:441:ARG:CB	2.85	0.55
1:B:570:ASN:CB	1:B:571:GLN:OE1	2.36	0.55
1:B:646:PRO:C	1:B:649:GLN:H	2.02	0.55
1:B:2213:PRO:CD	1:B:2647:LEU:HD13	2.37	0.55
1:D:2372:PHE:CD1	1:D:2372:PHE:C	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2412:PHE:C	1:D:2414:SER:H	2.14	0.55
1:A:2345:ILE:CD1	1:A:2353:THR:OG1	2.54	0.55
1:A:2348:VAL:HG21	1:A:2353:THR:HG22	1.78	0.55
1:C:128:SER:HA	1:C:445:PHE:HZ	1.72	0.55
1:C:185:ASN:ND2	1:C:190:GLY:O	2.39	0.55
1:C:2191:LYS:O	1:C:2212:VAL:HG21	2.06	0.55
1:C:2239:LYS:HG2	1:C:2240:ILE:CD1	2.36	0.55
1:C:2345:ILE:HD12	1:C:2353:THR:OG1	2.06	0.55
1:C:2549:VAL:HG22	1:C:2574:PHE:HA	1.86	0.55
1:C:2707:LYS:HE3	1:C:2711:ASN:OD1	2.06	0.55
1:C:2727:ARG:CZ	1:C:2727:ARG:CA	2.85	0.55
1:D:971:LYS:O	1:D:975:ILE:N	2.38	0.55
1:D:2727:ARG:CZ	1:D:2727:ARG:CA	2.85	0.55
1:A:969:ASP:O	1:A:973:LYS:N	2.36	0.55
1:A:2239:LYS:HZ3	1:A:2677:ARG:CD	2.09	0.55
1:A:2649:LYS:CE	1:A:2649:LYS:CA	2.85	0.55
1:C:974:ILE:O	1:C:978:LEU:N	2.35	0.55
1:B:78:PRO:CA	1:B:81:ASN:O	2.54	0.55
1:B:2286:LEU:HA	1:B:2289:LEU:HD11	1.88	0.55
1:B:2345:ILE:CG2	1:B:2348:VAL:HG11	2.37	0.55
1:B:2618:ARG:CZ	1:B:2618:ARG:CB	2.85	0.55
1:B:2632:ILE:HD12	1:B:2633:LYS:HD2	1.89	0.55
1:D:128:SER:HA	1:D:445:PHE:HZ	1.72	0.55
1:A:269:ARG:CB	2:A:2801:JYP:C2	2.72	0.55
1:A:2243:PHE:CD1	1:A:2642:LEU:CD1	2.67	0.55
1:A:2710:THR:CG2	1:A:2711:ASN:ND2	2.64	0.55
1:A:2727:ARG:CZ	1:A:2727:ARG:CA	2.85	0.55
1:C:457:ALA:HB2	1:C:521:LYS:CD	2.37	0.55
1:C:2356:LEU:HD12	1:C:2356:LEU:O	2.07	0.55
1:C:2452:VAL:CG2	1:C:2573:PHE:CZ	2.88	0.55
1:B:886:ARG:O	1:B:889:LYS:C	2.44	0.55
1:B:1196:LYS:O	1:B:1200:GLN:N	2.40	0.55
1:B:2433:SER:C	1:B:2434:VAL:HG23	2.31	0.55
1:D:580:PHE:CD1	1:D:580:PHE:N	2.73	0.55
1:D:2191:LYS:O	1:D:2212:VAL:HG21	2.06	0.55
1:D:2213:PRO:HA	1:D:2647:LEU:HD13	1.88	0.55
1:A:128:SER:HA	1:A:445:PHE:HZ	1.71	0.55
1:A:1817:SER:O	1:A:1821:PHE:N	2.36	0.55
1:A:2190:ALA:C	1:A:2192:HIS:H	2.15	0.55
1:A:2393:LEU:C	1:A:2393:LEU:HD12	2.32	0.55
1:C:78:PRO:CA	1:C:81:ASN:O	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:517:LYS:N	1:C:517:LYS:HE2	2.22	0.55
1:C:2278:SER:O	1:C:2281:PHE:CG	2.58	0.55
1:C:2365:LYS:HZ1	1:C:2395:HIS:CB	2.20	0.55
1:C:2368:PHE:HE2	1:C:2395:HIS:CB	2.10	0.55
1:C:2726:GLN:OE1	1:C:2726:GLN:HA	2.05	0.55
1:B:450:SER:HA	1:B:453:LEU:CG	2.37	0.55
1:B:2278:SER:O	1:B:2281:PHE:CG	2.58	0.55
1:B:2575:PHE:C	1:B:2575:PHE:CD1	2.83	0.55
1:D:78:PRO:CA	1:D:81:ASN:O	2.54	0.55
1:D:2356:LEU:HD12	1:D:2356:LEU:O	2.07	0.55
1:D:2452:VAL:CG2	1:D:2573:PHE:CZ	2.88	0.55
1:D:2549:VAL:CG2	1:D:2573:PHE:CD2	2.90	0.55
1:A:310:THR:HB	1:A:312:HIS:HD2	1.72	0.55
1:A:568:ARG:N	1:A:571:GLN:HE22	2.05	0.55
1:A:576:LYS:O	1:A:580:PHE:HE1	1.90	0.55
1:A:2239:LYS:HG2	1:A:2240:ILE:CD1	2.37	0.55
1:A:2566:ARG:CZ	1:A:2566:ARG:CB	2.85	0.55
1:C:450:SER:HA	1:C:453:LEU:CG	2.37	0.55
1:C:2433:SER:C	1:C:2434:VAL:HG23	2.31	0.55
1:C:2696:ARG:CZ	1:B:2696:ARG:NH2	2.69	0.55
1:B:128:SER:HA	1:B:445:PHE:HZ	1.72	0.55
1:B:508:LYS:CE	1:B:511:ARG:HH11	2.15	0.55
1:B:2549:VAL:HG22	1:B:2574:PHE:HA	1.86	0.55
1:D:457:ALA:HB2	1:D:521:LYS:CD	2.37	0.55
1:D:2433:SER:C	1:D:2434:VAL:HG23	2.31	0.55
1:D:2571:LEU:HD13	1:D:2572:LEU:HG	1.88	0.55
1:D:2649:LYS:CE	1:D:2649:LYS:CA	2.84	0.55
1:A:450:SER:HA	1:A:453:LEU:CG	2.37	0.55
1:A:1836:ASN:O	1:A:1840:GLN:N	2.33	0.55
1:A:2410:GLU:HB2	1:A:2411:PHE:CD1	2.42	0.55
1:C:567:TYR:CE1	2:C:2801:JYP:O8	2.61	0.55
1:C:1302:HIS:C	1:B:144:LYS:CB	2.80	0.55
1:C:2393:LEU:C	1:C:2393:LEU:HD12	2.32	0.55
1:C:2649:LYS:CE	1:C:2649:LYS:CA	2.84	0.55
1:B:64:ASN:HD21	1:B:107:ASN:ND2	2.05	0.55
1:B:567:TYR:CE1	2:B:2801:JYP:O8	2.60	0.55
1:B:965:ILE:O	1:B:969:ASP:N	2.40	0.55
1:B:2190:ALA:C	1:B:2192:HIS:H	2.15	0.55
1:B:2370:MET:HE3	1:B:2370:MET:CA	2.19	0.55
1:B:2372:PHE:C	1:B:2372:PHE:CD1	2.85	0.55
1:B:2393:LEU:C	1:B:2393:LEU:HD12	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2707:LYS:HE3	1:B:2711:ASN:OD1	2.06	0.55
1:D:64:ASN:HD21	1:D:107:ASN:ND2	2.05	0.55
1:D:2243:PHE:CD1	1:D:2642:LEU:CD1	2.67	0.55
1:D:2393:LEU:C	1:D:2393:LEU:HD12	2.32	0.55
1:A:185:ASN:ND2	1:A:190:GLY:O	2.39	0.54
1:A:457:ALA:HB2	1:A:521:LYS:CD	2.37	0.54
1:A:963:GLU:O	1:A:967:VAL:N	2.37	0.54
1:A:2372:PHE:CD1	1:A:2372:PHE:C	2.85	0.54
1:C:568:ARG:N	1:C:571:GLN:HE22	2.05	0.54
1:C:580:PHE:CD1	1:C:580:PHE:N	2.73	0.54
1:C:750:LEU:O	1:C:754:GLU:N	2.37	0.54
1:C:2549:VAL:CG2	1:C:2573:PHE:CD2	2.90	0.54
1:B:310:THR:HB	1:B:312:HIS:HD2	1.72	0.54
1:B:998:LYS:O	1:B:999:ARG:C	2.43	0.54
1:B:2356:LEU:HD12	1:B:2356:LEU:O	2.07	0.54
1:D:450:SER:HA	1:D:453:LEU:CG	2.37	0.54
1:D:508:LYS:CE	1:D:511:ARG:HH11	2.15	0.54
1:D:568:ARG:N	1:D:571:GLN:HE22	2.05	0.54
1:D:1809:ILE:O	1:D:1813:MET:N	2.40	0.54
1:D:2348:VAL:HB	1:D:2353:THR:HG22	1.81	0.54
1:A:2033:ILE:O	1:A:2037:LEU:N	2.31	0.54
1:A:2213:PRO:HA	1:A:2647:LEU:HD13	1.88	0.54
1:A:2632:ILE:HD12	1:A:2633:LYS:HD2	1.89	0.54
1:C:64:ASN:HD21	1:C:107:ASN:ND2	2.05	0.54
1:C:527:PHE:CD1	1:C:527:PHE:C	2.86	0.54
1:C:1809:ILE:O	1:C:1813:MET:N	2.40	0.54
1:C:1995:THR:C	1:C:1998:ASN:O	2.50	0.54
1:C:2213:PRO:CD	1:C:2647:LEU:HD13	2.37	0.54
1:C:2372:PHE:CD1	1:C:2372:PHE:C	2.85	0.54
1:B:1030:PHE:O	1:B:1034:GLU:N	2.38	0.54
1:B:1995:THR:C	1:B:1998:ASN:O	2.50	0.54
1:B:2618:ARG:HD2	1:B:2628:PHE:HZ	1.69	0.54
1:D:58:PHE:HB3	1:D:123:LEU:HD22	1.89	0.54
1:D:263:PHE:CE2	1:D:265:ARG:NE	2.58	0.54
1:A:514:ASN:C	1:A:517:LYS:H	2.14	0.54
1:A:2412:PHE:O	1:A:2414:SER:CA	2.55	0.54
1:A:2583:ASN:HB3	1:B:2586:PHE:HE1	1.59	0.54
1:C:77:LYS:HD3	1:C:77:LYS:N	2.21	0.54
1:C:2272:ASN:ND2	1:C:2276:TRP:HZ2	2.06	0.54
1:B:77:LYS:N	1:B:77:LYS:HD3	2.21	0.54
1:B:2191:LYS:O	1:B:2212:VAL:HG21	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2239:LYS:HG2	1:B:2240:ILE:CD1	2.37	0.54
1:B:2345:ILE:CD1	1:B:2353:THR:OG1	2.54	0.54
1:B:2398:TYR:CZ	1:B:2401:ILE:HG12	2.43	0.54
1:D:567:TYR:CE1	2:D:2801:JYP:O8	2.60	0.54
1:D:969:ASP:O	1:D:973:LYS:N	2.36	0.54
1:D:1995:THR:C	1:D:1998:ASN:O	2.50	0.54
1:D:2345:ILE:HD12	1:D:2353:THR:OG1	2.06	0.54
1:D:2345:ILE:CG2	1:D:2348:VAL:HG11	2.37	0.54
1:D:2410:GLU:HB2	1:D:2411:PHE:CD1	2.43	0.54
1:D:2601:GLN:O	1:D:2605:GLU:N	2.41	0.54
1:A:510:MET:C	1:A:515:ILE:CG2	2.81	0.54
1:A:1809:ILE:O	1:A:1813:MET:N	2.40	0.54
1:C:964:ASP:O	1:C:968:MET:N	2.37	0.54
1:C:2239:LYS:HZ2	1:C:2677:ARG:CD	2.16	0.54
1:B:104:GLU:O	1:B:106:GLU:N	2.33	0.54
1:B:281:LEU:HD22	1:B:308:LEU:HD22	1.89	0.54
1:D:2398:TYR:CZ	1:D:2401:ILE:HG12	2.43	0.54
1:D:2632:ILE:HD12	1:D:2633:LYS:HD2	1.89	0.54
1:A:243:PHE:HA	1:A:250:PHE:HA	1.90	0.54
1:A:510:MET:C	1:A:515:ILE:HG21	2.28	0.54
1:A:517:LYS:N	1:A:517:LYS:HE2	2.22	0.54
1:A:2216:CYS:HG	1:A:2646:VAL:HG21	1.72	0.54
1:A:2295:TYR:CD1	1:D:2532:LEU:HD22	2.42	0.54
1:A:2406:LEU:HD13	1:A:2407:PHE:CE1	2.43	0.54
1:A:2649:LYS:HA	1:A:2649:LYS:HZ3	1.70	0.54
1:C:653:CYS:O	1:C:657:LEU:N	2.31	0.54
1:C:2345:ILE:CD1	1:C:2356:LEU:HD23	2.16	0.54
1:C:2601:GLN:O	1:C:2605:GLU:N	2.41	0.54
1:C:2720:LYS:HD3	1:B:2725:GLU:OE1	2.07	0.54
1:B:64:ASN:HD21	1:B:107:ASN:HD21	1.55	0.54
1:B:1619:VAL:O	1:B:1621:ALA:C	2.50	0.54
1:B:1796:GLN:O	1:B:1800:ASP:N	2.41	0.54
1:B:2601:GLN:O	1:B:2605:GLU:N	2.41	0.54
1:B:2716:LEU:HD23	1:B:2716:LEU:N	2.04	0.54
1:D:90:ASN:CA	1:D:93:HIS:CE1	2.80	0.54
1:D:570:ASN:CB	1:D:571:GLN:OE1	2.36	0.54
1:D:2213:PRO:CD	1:D:2647:LEU:HD13	2.37	0.54
1:D:2433:SER:HA	1:D:2592:THR:HG21	1.88	0.54
1:A:19:ALA:HB3	1:A:25:GLY:H	1.73	0.54
1:A:452:VAL:O	1:A:453:LEU:C	2.49	0.54
1:A:965:ILE:O	1:A:969:ASP:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1619:VAL:O	1:A:1621:ALA:C	2.50	0.54
1:C:64:ASN:HD21	1:C:107:ASN:HD21	1.55	0.54
1:C:1196:LYS:O	1:C:1200:GLN:N	2.40	0.54
1:C:2345:ILE:CG2	1:C:2348:VAL:HG11	2.37	0.54
1:C:2407:PHE:N	1:C:2407:PHE:CD1	2.72	0.54
1:C:2410:GLU:HB2	1:C:2411:PHE:CD1	2.42	0.54
1:C:2412:PHE:C	1:C:2414:SER:H	2.14	0.54
1:C:2720:LYS:HZ1	1:C:2723:MET:HE3	1.72	0.54
1:B:576:LYS:O	1:B:580:PHE:HE1	1.90	0.54
1:B:1809:ILE:O	1:B:1813:MET:N	2.40	0.54
1:B:2549:VAL:CG2	1:B:2573:PHE:CD2	2.90	0.54
1:D:185:ASN:ND2	1:D:190:GLY:O	2.39	0.54
1:D:527:PHE:CD1	1:D:527:PHE:C	2.85	0.54
1:D:549:PHE:CD1	1:D:549:PHE:C	2.86	0.54
1:D:2272:ASN:ND2	1:D:2276:TRP:HZ2	2.06	0.54
1:A:1302:HIS:C	1:D:144:LYS:CB	2.81	0.54
1:A:2345:ILE:HD12	1:A:2353:THR:OG1	2.06	0.54
1:A:2566:ARG:NH1	1:A:2566:ARG:CG	2.71	0.54
1:A:2601:GLN:O	1:A:2605:GLU:N	2.41	0.54
1:A:2618:ARG:CZ	1:A:2618:ARG:CB	2.85	0.54
1:C:514:ASN:C	1:C:516:LEU:H	2.05	0.54
1:C:2046:GLY:O	1:C:2047:PRO:C	2.46	0.54
1:C:2243:PHE:CD1	1:C:2642:LEU:CD1	2.67	0.54
1:C:2276:TRP:HE3	1:C:2367:ILE:HD13	1.73	0.54
1:B:313:TYR:N	1:B:358:VAL:O	2.41	0.54
1:B:486:GLY:CA	1:B:510:MET:CE	2.86	0.54
1:B:568:ARG:N	1:B:571:GLN:HE22	2.05	0.54
1:D:73:TRP:C	1:D:75:ALA:N	2.58	0.54
1:D:486:GLY:CA	1:D:510:MET:CE	2.86	0.54
1:D:2251:PHE:CD1	1:D:2251:PHE:C	2.86	0.54
1:A:1796:GLN:O	1:A:1800:ASP:N	2.41	0.54
1:A:2276:TRP:HE3	1:A:2367:ILE:HD13	1.73	0.54
1:A:2549:VAL:CG2	1:A:2573:PHE:CD2	2.90	0.54
1:C:281:LEU:HD22	1:C:308:LEU:HD22	1.89	0.54
1:C:380:SER:O	1:C:380:SER:OG	2.24	0.54
1:C:549:PHE:CD1	1:C:549:PHE:C	2.86	0.54
1:C:1619:VAL:O	1:C:1621:ALA:C	2.50	0.54
1:C:2528:CYS:HA	1:B:2558:LYS:NZ	2.22	0.54
1:C:2649:LYS:C	1:C:2650:VAL:CG2	2.54	0.54
1:B:457:ALA:HB2	1:B:521:LYS:CD	2.37	0.54
1:B:510:MET:C	1:B:515:ILE:CG2	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:576:LYS:O	1:D:580:PHE:HE1	1.90	0.54
1:D:1030:PHE:O	1:D:1034:GLU:N	2.39	0.54
1:D:1196:LYS:O	1:D:1200:GLN:N	2.40	0.54
1:D:2235:GLU:HG3	1:D:2236:GLN:HG3	1.90	0.54
1:D:2566:ARG:CZ	1:D:2566:ARG:CB	2.85	0.54
1:A:2356:LEU:HG	1:A:2357:LEU:HD23	1.90	0.54
1:A:2433:SER:HA	1:A:2592:THR:HG21	1.88	0.54
1:C:508:LYS:CE	1:C:511:ARG:HH11	2.15	0.54
1:C:2707:LYS:NZ	1:D:2706:MET:O	2.41	0.54
1:B:252:THR:N	1:B:263:PHE:O	2.36	0.54
1:B:2351:GLN:HG3	1:B:2355:PHE:CZ	2.43	0.54
1:D:19:ALA:HB3	1:D:25:GLY:H	1.73	0.54
1:D:281:LEU:HD22	1:D:308:LEU:HD22	1.89	0.54
1:A:567:TYR:CE1	2:A:2801:JYP:O8	2.60	0.54
1:A:1196:LYS:O	1:A:1200:GLN:N	2.40	0.54
1:A:1995:THR:C	1:A:1998:ASN:O	2.50	0.54
1:A:2357:LEU:HA	1:A:2360:PHE:CE1	2.43	0.54
1:A:2575:PHE:CD1	1:A:2575:PHE:C	2.83	0.54
1:A:2616:LEU:HD11	1:A:2621:PHE:CD2	2.43	0.54
1:C:1356:GLN:N	1:C:1416:ILE:O	2.38	0.54
1:C:1836:ASN:O	1:C:1840:GLN:N	2.33	0.54
1:C:1961:ALA:O	1:C:1962:VAL:O	2.26	0.54
1:C:2213:PRO:HG2	1:C:2647:LEU:N	2.22	0.54
1:C:2398:TYR:CZ	1:C:2401:ILE:HG12	2.43	0.54
1:C:2575:PHE:CD1	1:C:2575:PHE:C	2.83	0.54
1:B:76:ALA:HB3	1:B:77:LYS:HE3	1.90	0.54
1:B:2216:CYS:HG	1:B:2646:VAL:CG2	2.21	0.54
1:B:2272:ASN:ND2	1:B:2276:TRP:HZ2	2.06	0.54
1:B:2276:TRP:HE3	1:B:2367:ILE:HD13	1.73	0.54
1:B:2410:GLU:HB2	1:B:2411:PHE:CD1	2.42	0.54
1:B:2425:GLU:CA	1:B:2428:LEU:HB3	2.36	0.54
1:D:441:ARG:CZ	1:D:441:ARG:CB	2.85	0.54
1:D:1209:GLY:HA3	1:D:1259:ILE:CA	2.38	0.54
1:D:1796:GLN:O	1:D:1800:ASP:N	2.41	0.54
1:D:2216:CYS:HG	1:D:2646:VAL:CG2	2.19	0.54
1:D:2356:LEU:HG	1:D:2357:LEU:HD23	1.90	0.54
1:D:2406:LEU:HD13	1:D:2407:PHE:CE1	2.43	0.54
1:A:281:LEU:HD22	1:A:308:LEU:HD22	1.89	0.53
1:A:2356:LEU:HD12	1:A:2356:LEU:O	2.07	0.53
1:A:2398:TYR:CZ	1:A:2401:ILE:HG12	2.43	0.53
1:A:2706:MET:O	1:D:2707:LYS:NZ	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:ALA:HB3	1:C:77:LYS:HE3	1.90	0.53
1:C:450:SER:HA	1:C:453:LEU:CD1	2.38	0.53
1:C:2356:LEU:HG	1:C:2357:LEU:HD23	1.90	0.53
1:B:517:LYS:N	1:B:517:LYS:HE2	2.22	0.53
1:B:527:PHE:C	1:B:527:PHE:CD1	2.86	0.53
1:D:750:LEU:O	1:D:754:GLU:N	2.37	0.53
1:D:965:ILE:O	1:D:969:ASP:N	2.40	0.53
1:D:2276:TRP:HE3	1:D:2367:ILE:HD13	1.73	0.53
1:A:64:ASN:HD21	1:A:107:ASN:ND2	2.05	0.53
1:A:486:GLY:CA	1:A:510:MET:CE	2.86	0.53
1:A:1209:GLY:HA3	1:A:1259:ILE:CA	2.38	0.53
1:C:243:PHE:HA	1:C:250:PHE:HA	1.90	0.53
1:C:969:ASP:O	1:C:973:LYS:N	2.36	0.53
1:C:2216:CYS:HG	1:C:2646:VAL:CG2	2.18	0.53
1:C:2285:VAL:CG2	1:C:2417:LEU:CD1	2.61	0.53
1:C:2549:VAL:HG21	1:C:2573:PHE:CD2	2.44	0.53
1:B:58:PHE:HB3	1:B:123:LEU:HD22	1.90	0.53
1:B:510:MET:C	1:B:515:ILE:HG21	2.28	0.53
1:B:1209:GLY:HA3	1:B:1259:ILE:CA	2.38	0.53
1:B:2204:THR:O	1:B:2679:ARG:NH2	2.41	0.53
1:B:2356:LEU:HG	1:B:2357:LEU:HD23	1.90	0.53
1:D:64:ASN:HD21	1:D:107:ASN:HD21	1.55	0.53
1:A:527:PHE:CD1	1:A:527:PHE:C	2.85	0.53
1:A:2213:PRO:CD	1:A:2647:LEU:HD13	2.37	0.53
1:A:2351:GLN:HG3	1:A:2355:PHE:CZ	2.43	0.53
1:C:2682:SER:HB2	1:C:2683:LEU:HD13	1.91	0.53
1:B:2348:VAL:HG11	1:B:2353:THR:HG1	1.67	0.53
1:B:2357:LEU:HA	1:B:2360:PHE:CE1	2.43	0.53
1:D:244:HIS:NE2	1:D:427:LYS:O	2.41	0.53
1:D:450:SER:HA	1:D:453:LEU:CD1	2.38	0.53
1:D:2351:GLN:HG3	1:D:2355:PHE:CZ	2.43	0.53
1:D:2357:LEU:HA	1:D:2360:PHE:CE1	2.43	0.53
1:A:58:PHE:HB3	1:A:123:LEU:HD22	1.90	0.53
1:A:2682:SER:HB2	1:A:2683:LEU:HD13	1.91	0.53
1:A:2720:LYS:HZ1	1:A:2723:MET:HE3	1.72	0.53
1:A:2737:GLY:O	1:B:393:LEU:HD21	2.09	0.53
1:C:313:TYR:N	1:C:358:VAL:O	2.41	0.53
1:C:1209:GLY:HA3	1:C:1259:ILE:CA	2.38	0.53
1:C:2425:GLU:CA	1:C:2428:LEU:HB3	2.36	0.53
1:B:2566:ARG:CZ	1:B:2566:ARG:CB	2.85	0.53
1:D:270:GLN:HE21	1:D:271:SER:N	1.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:ALA:HB3	1:A:77:LYS:HE3	1.90	0.53
1:A:573:TYR:O	1:A:577:GLN:CD	2.52	0.53
1:A:2272:ASN:ND2	1:A:2276:TRP:HZ2	2.06	0.53
1:A:2624:LYS:NZ	1:A:2624:LYS:CB	2.72	0.53
1:C:576:LYS:O	1:C:580:PHE:HE1	1.90	0.53
1:C:1796:GLN:O	1:C:1800:ASP:N	2.41	0.53
1:C:2243:PHE:HE2	1:C:2638:MET:HB3	1.50	0.53
1:B:520:PHE:HE1	1:B:523:LEU:CD1	2.13	0.53
1:B:2235:GLU:HG3	1:B:2236:GLN:HG3	1.90	0.53
1:B:2272:ASN:CG	1:B:2276:TRP:HZ2	2.17	0.53
1:B:2406:LEU:HD13	1:B:2407:PHE:CE1	2.43	0.53
1:D:74:LYS:CE	1:D:74:LYS:CA	2.85	0.53
1:D:269:ARG:CB	2:D:2801:JYP:C2	2.72	0.53
1:D:517:LYS:N	1:D:517:LYS:HE2	2.22	0.53
1:D:2549:VAL:HG21	1:D:2573:PHE:CD2	2.44	0.53
1:D:2618:ARG:CZ	1:D:2618:ARG:CB	2.85	0.53
1:D:2642:LEU:CD1	1:D:2642:LEU:N	2.72	0.53
1:A:161:PHE:HB3	1:A:184:LEU:HD22	1.91	0.53
1:A:313:TYR:N	1:A:358:VAL:O	2.41	0.53
1:A:2191:LYS:O	1:A:2212:VAL:HG21	2.06	0.53
1:A:2278:SER:O	1:A:2281:PHE:CG	2.58	0.53
1:C:965:ILE:O	1:C:969:ASP:N	2.40	0.53
1:B:2612:PHE:CZ	1:B:2638:MET:CE	2.91	0.53
1:B:2616:LEU:HD11	1:B:2621:PHE:CD2	2.44	0.53
1:D:252:THR:N	1:D:263:PHE:O	2.36	0.53
1:D:514:ASN:OD1	1:D:516:LEU:HD13	1.96	0.53
1:D:1961:ALA:C	1:D:1963:ILE:N	2.59	0.53
1:A:8:PHE:HB2	1:A:178:ILE:HD11	1.91	0.53
1:A:64:ASN:HD21	1:A:107:ASN:HD21	1.55	0.53
1:A:78:PRO:CA	1:A:81:ASN:O	2.54	0.53
1:A:269:ARG:HB3	2:A:2801:JYP:C2	2.28	0.53
1:A:2558:LYS:C	1:A:2560:GLU:N	2.53	0.53
1:A:2625:THR:HG23	1:A:2626:VAL:HG23	1.90	0.53
1:C:104:GLU:O	1:C:106:GLU:N	2.33	0.53
1:C:573:TYR:O	1:C:577:GLN:CD	2.52	0.53
1:C:2204:THR:O	1:C:2679:ARG:NH2	2.41	0.53
1:C:2284:ALA:O	1:C:2287:MET:HE3	2.08	0.53
1:B:19:ALA:HB3	1:B:25:GLY:H	1.73	0.53
1:B:161:PHE:HB3	1:B:184:LEU:HD22	1.91	0.53
1:B:447:ASN:HB2	1:B:513:GLN:OE1	2.09	0.53
1:B:1795:VAL:O	1:B:1799:LEU:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1961:ALA:O	1:B:1962:VAL:O	2.26	0.53
1:D:239:VAL:HG12	1:D:283:GLU:HB2	1.91	0.53
1:D:578:PHE:CD1	1:D:578:PHE:C	2.87	0.53
1:A:974:ILE:O	1:A:978:LEU:N	2.35	0.53
1:A:2453:TYR:O	1:A:2456:SER:OG	2.26	0.53
1:A:2586:PHE:CA	1:D:2583:ASN:HD22	2.20	0.53
1:A:2707:LYS:NZ	1:B:2706:MET:O	2.42	0.53
1:C:310:THR:HB	1:C:312:HIS:HD2	1.72	0.53
1:C:2180:VAL:C	1:C:2182:GLY:H	2.17	0.53
1:C:2625:THR:HG23	1:C:2626:VAL:HG23	1.90	0.53
1:B:85:ASP:HA	1:B:89:LEU:HD12	1.91	0.53
1:B:2243:PHE:HZ	1:B:2638:MET:CB	2.03	0.53
1:B:2625:THR:HG23	1:B:2626:VAL:HG23	1.90	0.53
1:D:76:ALA:HB3	1:D:77:LYS:HE3	1.90	0.53
1:D:1961:ALA:C	1:D:1964:THR:H	2.17	0.53
1:D:2616:LEU:HD11	1:D:2621:PHE:CD2	2.43	0.53
1:D:2682:SER:HB2	1:D:2683:LEU:HD13	1.91	0.53
1:A:447:ASN:HB3	1:A:513:GLN:CD	2.34	0.53
1:A:1961:ALA:C	1:A:1964:THR:H	2.17	0.53
1:A:2365:LYS:HG2	1:A:2399:LEU:HA	1.91	0.53
1:A:2549:VAL:HG21	1:A:2573:PHE:CD2	2.44	0.53
1:C:447:ASN:HB2	1:C:513:GLN:OE1	2.09	0.53
1:C:486:GLY:CA	1:C:510:MET:CE	2.86	0.53
1:C:1961:ALA:C	1:C:1964:THR:H	2.17	0.53
1:C:2251:PHE:CD1	1:C:2251:PHE:C	2.86	0.53
1:C:2406:LEU:HD13	1:C:2407:PHE:CE1	2.43	0.53
1:C:2725:GLU:CD	1:D:2720:LYS:HD3	2.33	0.53
1:B:243:PHE:HA	1:B:250:PHE:HA	1.90	0.53
1:B:244:HIS:NE2	1:B:427:LYS:O	2.41	0.53
1:B:2365:LYS:HG2	1:B:2399:LEU:HA	1.91	0.53
1:B:2411:PHE:O	1:B:2413:TYR:CD2	2.62	0.53
1:B:2642:LEU:CD1	1:B:2642:LEU:N	2.72	0.53
1:B:2682:SER:HB2	1:B:2683:LEU:HD13	1.91	0.53
1:B:2707:LYS:CD	1:B:2711:ASN:HD21	2.19	0.53
1:D:249:LYS:CB	1:D:264:LEU:HD13	2.39	0.53
1:D:573:TYR:O	1:D:577:GLN:CD	2.52	0.53
1:A:1961:ALA:O	1:A:1962:VAL:O	2.26	0.53
1:A:2204:THR:O	1:A:2679:ARG:NH2	2.41	0.53
1:C:117:TYR:HB2	1:C:173:GLY:H	1.74	0.53
1:C:514:ASN:OD1	1:C:516:LEU:HD13	1.95	0.53
1:C:2351:GLN:HG3	1:C:2355:PHE:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2281:PHE:HB3	1:B:2420:LEU:HD22	1.91	0.53
1:A:2235:GLU:HG3	1:A:2236:GLN:HG3	1.90	0.52
1:A:2287:MET:SD	1:A:2287:MET:C	2.92	0.52
1:A:2289:LEU:N	1:A:2289:LEU:CD1	2.72	0.52
1:A:2351:GLN:N	1:A:2352:PRO:CD	2.72	0.52
1:A:2583:ASN:ND2	1:B:2586:PHE:CD1	2.78	0.52
1:C:191:GLN:O	1:C:211:SER:OG	2.27	0.52
1:C:244:HIS:NE2	1:C:427:LYS:O	2.41	0.52
1:C:568:ARG:CA	1:C:571:GLN:HE22	2.23	0.52
1:C:2192:HIS:NE2	1:C:2210:PHE:O	2.42	0.52
1:B:74:LYS:CE	1:B:74:LYS:CA	2.85	0.52
1:B:117:TYR:HB2	1:B:173:GLY:H	1.74	0.52
1:B:452:VAL:O	1:B:453:LEU:C	2.49	0.52
1:B:578:PHE:CD1	1:B:578:PHE:C	2.86	0.52
1:B:1126:VAL:O	1:B:1130:GLU:N	2.27	0.52
1:B:2549:VAL:HG21	1:B:2573:PHE:CD2	2.44	0.52
1:D:447:ASN:HB3	1:D:513:GLN:CD	2.34	0.52
1:D:2192:HIS:NE2	1:D:2210:PHE:O	2.42	0.52
1:D:2213:PRO:CG	1:D:2647:LEU:CG	2.70	0.52
1:A:23:THR:HG21	1:A:207:ASN:HD22	1.74	0.52
1:A:191:GLN:O	1:A:211:SER:OG	2.27	0.52
1:A:582:GLN:NE2	1:A:582:GLN:CA	2.72	0.52
1:C:161:PHE:HB3	1:C:184:LEU:HD22	1.91	0.52
1:C:447:ASN:HB3	1:C:513:GLN:CD	2.34	0.52
1:C:2357:LEU:HA	1:C:2360:PHE:CE1	2.43	0.52
1:C:2388:LEU:CD2	1:C:2388:LEU:H	1.93	0.52
1:C:2616:LEU:HD11	1:C:2621:PHE:CD2	2.43	0.52
1:C:2618:ARG:CZ	1:C:2618:ARG:CB	2.85	0.52
1:B:90:ASN:CA	1:B:93:HIS:CE1	2.80	0.52
1:B:514:ASN:CB	1:B:517:LYS:H	2.21	0.52
1:B:750:LEU:O	1:B:754:GLU:N	2.37	0.52
1:D:23:THR:HG21	1:D:207:ASN:HD22	1.74	0.52
1:D:313:TYR:N	1:D:358:VAL:O	2.41	0.52
1:D:2204:THR:O	1:D:2679:ARG:NH2	2.41	0.52
1:D:2287:MET:O	1:D:2290:LEU:HB2	2.08	0.52
1:D:2624:LYS:NZ	1:D:2624:LYS:CB	2.72	0.52
1:A:2573:PHE:CD1	1:A:2577:VAL:CG2	2.93	0.52
1:C:88:LEU:CA	1:C:92:LEU:HD11	2.39	0.52
1:C:510:MET:C	1:C:515:ILE:HG21	2.28	0.52
1:C:578:PHE:C	1:C:578:PHE:CD1	2.86	0.52
1:C:2281:PHE:HB3	1:C:2420:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2287:MET:SD	1:C:2287:MET:C	2.92	0.52
1:C:2612:PHE:CZ	1:C:2638:MET:CE	2.91	0.52
1:C:2624:LYS:NZ	1:C:2624:LYS:CB	2.72	0.52
1:C:2642:LEU:CD1	1:C:2642:LEU:N	2.72	0.52
1:C:2723:MET:C	1:C:2723:MET:SD	2.93	0.52
1:B:8:PHE:HB2	1:B:178:ILE:HD11	1.91	0.52
1:B:2284:ALA:O	1:B:2287:MET:HE3	2.08	0.52
1:D:38:VAL:HB	1:D:206:CYS:HB3	1.92	0.52
1:D:554:ARG:HH11	1:D:554:ARG:CG	2.12	0.52
1:D:2284:ALA:O	1:D:2287:MET:HE3	2.09	0.52
1:D:2411:PHE:O	1:D:2413:TYR:CD2	2.62	0.52
1:A:2272:ASN:CG	1:A:2276:TRP:HZ2	2.17	0.52
1:A:2713:SER:HB3	1:D:2715:GLN:NE2	2.11	0.52
1:C:19:ALA:HB3	1:C:25:GLY:H	1.73	0.52
1:C:2285:VAL:O	1:C:2287:MET:C	2.53	0.52
1:C:2360:PHE:O	1:C:2364:ASN:N	2.38	0.52
1:B:438:ALA:HA	1:B:441:ARG:HH22	1.75	0.52
1:B:447:ASN:HB3	1:B:513:GLN:CD	2.34	0.52
1:B:2287:MET:SD	1:B:2287:MET:C	2.92	0.52
1:D:161:PHE:HB3	1:D:184:LEU:HD22	1.91	0.52
1:D:191:GLN:O	1:D:211:SER:OG	2.28	0.52
1:D:447:ASN:HB2	1:D:513:GLN:OE1	2.09	0.52
1:D:2625:THR:HG23	1:D:2626:VAL:HG23	1.90	0.52
1:A:549:PHE:CD1	1:A:549:PHE:C	2.86	0.52
1:A:1356:GLN:N	1:A:1416:ILE:O	2.38	0.52
1:A:2184:GLU:N	1:A:2184:GLU:OE1	2.43	0.52
1:A:2192:HIS:NE2	1:A:2210:PHE:O	2.42	0.52
1:A:2284:ALA:O	1:A:2287:MET:HE3	2.09	0.52
1:A:2612:PHE:CZ	1:A:2638:MET:CE	2.91	0.52
1:C:58:PHE:HB3	1:C:123:LEU:HD22	1.90	0.52
1:C:441:ARG:CZ	1:C:441:ARG:CB	2.85	0.52
1:C:1795:VAL:O	1:C:1799:LEU:N	2.39	0.52
1:C:2235:GLU:HG3	1:C:2236:GLN:HG3	1.90	0.52
1:C:2271:ARG:CZ	1:C:2272:ASN:HD21	2.14	0.52
1:C:2411:PHE:O	1:C:2413:TYR:CD2	2.62	0.52
1:C:2566:ARG:NH1	1:C:2566:ARG:CG	2.71	0.52
1:C:2707:LYS:CD	1:C:2711:ASN:HD21	2.19	0.52
1:B:1961:ALA:C	1:B:1964:THR:H	2.17	0.52
1:B:2213:PRO:HG2	1:B:2647:LEU:N	2.22	0.52
1:B:2389:ASP:HA	1:B:2392:PHE:CE1	2.44	0.52
1:D:2190:ALA:C	1:D:2192:HIS:H	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2216:CYS:HG	1:D:2646:VAL:HG21	1.74	0.52
1:A:453:LEU:C	1:A:521:LYS:HD2	2.35	0.52
1:A:571:GLN:HB3	1:A:574:ILE:CD1	2.38	0.52
1:A:2285:VAL:O	1:A:2287:MET:C	2.53	0.52
1:A:2388:LEU:HD23	1:A:2388:LEU:N	2.09	0.52
1:C:23:THR:HG21	1:C:207:ASN:HD22	1.74	0.52
1:C:249:LYS:CB	1:C:264:LEU:HD13	2.39	0.52
1:C:2566:ARG:NH1	1:C:2566:ARG:CB	2.73	0.52
1:B:2192:HIS:NE2	1:B:2210:PHE:O	2.42	0.52
1:B:2239:LYS:HZ2	1:B:2677:ARG:CD	2.21	0.52
1:B:2285:VAL:O	1:B:2287:MET:C	2.53	0.52
1:B:2365:LYS:HZ1	1:B:2368:PHE:HD2	1.48	0.52
1:B:2622:ASP:OD1	1:B:2628:PHE:CG	2.55	0.52
1:D:2285:VAL:O	1:D:2287:MET:C	2.53	0.52
1:D:2287:MET:C	1:D:2287:MET:SD	2.92	0.52
1:D:2425:GLU:O	1:D:2429:ASN:N	2.43	0.52
1:A:578:PHE:C	1:A:578:PHE:CD1	2.87	0.52
1:A:2186:LEU:HD23	1:A:2189:TYR:CD2	2.45	0.52
1:A:2365:LYS:HZ1	1:A:2395:HIS:CB	2.21	0.52
1:A:2723:MET:SD	1:A:2723:MET:C	2.93	0.52
1:C:507:GLN:CG	1:C:567:TYR:CE1	2.76	0.52
1:C:760:ASP:C	1:C:762:ASP:N	2.68	0.52
1:C:2186:LEU:HD23	1:C:2189:TYR:CD2	2.45	0.52
1:C:2190:ALA:C	1:C:2192:HIS:H	2.15	0.52
1:C:2389:ASP:HA	1:C:2392:PHE:CE1	2.44	0.52
1:C:2706:MET:O	1:B:2707:LYS:CE	2.57	0.52
1:B:453:LEU:C	1:B:521:LYS:HD2	2.35	0.52
1:B:569:LYS:HB2	2:B:2801:JYP:O14	2.10	0.52
1:B:760:ASP:C	1:B:762:ASP:N	2.68	0.52
1:B:2186:LEU:HD23	1:B:2189:TYR:CD2	2.45	0.52
1:B:2723:MET:SD	1:B:2723:MET:C	2.93	0.52
1:D:8:PHE:HB2	1:D:178:ILE:HD11	1.91	0.52
1:D:77:LYS:N	1:D:77:LYS:CD	2.72	0.52
1:D:509:LEU:HA	1:D:512:GLU:CB	2.39	0.52
1:D:2180:VAL:C	1:D:2182:GLY:H	2.17	0.52
1:D:2186:LEU:HD23	1:D:2189:TYR:CD2	2.45	0.52
1:D:2350:LEU:CD2	1:D:2350:LEU:N	2.73	0.52
1:D:2412:PHE:O	1:D:2414:SER:CA	2.56	0.52
1:A:85:ASP:HA	1:A:89:LEU:HD12	1.91	0.52
1:A:239:VAL:HG12	1:A:283:GLU:HB2	1.91	0.52
1:A:1209:GLY:CA	1:A:1259:ILE:C	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2213:PRO:HG2	1:A:2647:LEU:N	2.22	0.52
1:C:453:LEU:CB	1:C:521:LYS:HZ3	2.23	0.52
1:C:569:LYS:HB2	2:C:2801:JYP:O14	2.10	0.52
1:C:2365:LYS:HG2	1:C:2399:LEU:HA	1.91	0.52
1:B:514:ASN:C	1:B:516:LEU:H	2.05	0.52
1:D:88:LEU:CA	1:D:92:LEU:HD11	2.39	0.52
1:A:249:LYS:CB	1:A:264:LEU:HD13	2.39	0.52
1:A:568:ARG:CA	1:A:571:GLN:HE22	2.23	0.52
1:A:2251:PHE:CD1	1:A:2251:PHE:C	2.86	0.52
1:A:2281:PHE:HB3	1:A:2420:LEU:HD22	1.91	0.52
1:A:2642:LEU:CD1	1:A:2642:LEU:N	2.72	0.52
1:C:2272:ASN:CG	1:C:2276:TRP:HZ2	2.17	0.52
1:B:191:GLN:O	1:B:211:SER:OG	2.27	0.52
1:B:450:SER:N	1:B:453:LEU:HG	2.24	0.52
1:B:568:ARG:CA	1:B:571:GLN:HE22	2.23	0.52
1:B:582:GLN:NE2	1:B:582:GLN:CA	2.72	0.52
1:D:2365:LYS:HG2	1:D:2399:LEU:HA	1.91	0.52
1:D:2723:MET:SD	1:D:2723:MET:C	2.93	0.52
1:A:88:LEU:CA	1:A:92:LEU:HD11	2.39	0.52
1:A:199:GLN:NE2	1:A:203:ASN:O	2.43	0.52
1:A:514:ASN:CB	1:A:517:LYS:H	2.21	0.52
1:A:2180:VAL:C	1:A:2182:GLY:H	2.17	0.52
1:A:2365:LYS:HZ3	1:A:2395:HIS:HA	1.74	0.52
1:A:2411:PHE:O	1:A:2413:TYR:CD2	2.62	0.52
1:C:8:PHE:HB2	1:C:178:ILE:HD11	1.91	0.52
1:C:239:VAL:HG12	1:C:283:GLU:HB2	1.91	0.52
1:C:452:VAL:O	1:C:453:LEU:C	2.49	0.52
1:B:2345:ILE:CG2	1:B:2348:VAL:CG1	2.88	0.52
1:B:2412:PHE:O	1:B:2414:SER:CA	2.56	0.52
1:B:2566:ARG:NH1	1:B:2566:ARG:CB	2.73	0.52
1:D:243:PHE:HA	1:D:250:PHE:HA	1.90	0.52
1:D:1107:GLN:O	1:D:1108:ASP:C	2.53	0.52
1:D:1961:ALA:O	1:D:1962:VAL:O	2.26	0.52
1:D:2184:GLU:N	1:D:2184:GLU:OE1	2.43	0.52
1:D:2213:PRO:HG2	1:D:2647:LEU:N	2.22	0.52
1:D:2389:ASP:HA	1:D:2392:PHE:CE1	2.44	0.52
1:D:2612:PHE:CZ	1:D:2638:MET:CE	2.91	0.52
1:A:77:LYS:N	1:A:77:LYS:CD	2.72	0.51
1:A:116:GLN:HA	1:A:175:SER:HA	1.92	0.51
1:A:1030:PHE:O	1:A:1034:GLU:N	2.39	0.51
1:A:1795:VAL:O	1:A:1799:LEU:N	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2425:GLU:O	1:A:2429:ASN:N	2.43	0.51
1:A:2452:VAL:CG2	1:A:2573:PHE:CZ	2.88	0.51
1:C:77:LYS:N	1:C:77:LYS:CD	2.72	0.51
1:C:2436:ARG:NH2	1:C:2595:ASP:OD2	2.43	0.51
1:B:77:LYS:N	1:B:77:LYS:CD	2.72	0.51
1:B:88:LEU:CA	1:B:92:LEU:HD11	2.39	0.51
1:B:249:LYS:CB	1:B:264:LEU:HD13	2.39	0.51
1:B:2180:VAL:C	1:B:2182:GLY:H	2.17	0.51
1:B:2251:PHE:C	1:B:2251:PHE:CD1	2.86	0.51
1:B:2289:LEU:N	1:B:2289:LEU:CD1	2.72	0.51
1:B:2436:ARG:NH2	1:B:2595:ASP:OD2	2.43	0.51
2:B:2801:JYP:O16	2:B:2801:JYP:C11	2.59	0.51
1:D:62:PRO:HB2	1:D:107:ASN:OD1	2.10	0.51
1:D:117:TYR:HB2	1:D:173:GLY:H	1.74	0.51
1:D:760:ASP:C	1:D:762:ASP:N	2.68	0.51
1:D:1813:MET:CA	1:D:1853:SER:CA	2.89	0.51
1:D:2281:PHE:HB3	1:D:2420:LEU:HD22	1.91	0.51
1:D:2345:ILE:CG2	1:D:2348:VAL:CG1	2.88	0.51
1:A:104:GLU:O	1:A:106:GLU:N	2.33	0.51
1:A:117:TYR:HB2	1:A:173:GLY:H	1.74	0.51
1:A:450:SER:HA	1:A:453:LEU:CD1	2.38	0.51
1:A:760:ASP:C	1:A:762:ASP:N	2.68	0.51
1:A:2389:ASP:HA	1:A:2392:PHE:CE1	2.44	0.51
1:C:88:LEU:CD1	1:C:88:LEU:N	2.72	0.51
1:C:438:ALA:HA	1:C:441:ARG:HH22	1.75	0.51
1:B:509:LEU:HA	1:B:512:GLU:CB	2.39	0.51
1:B:2285:VAL:CG2	1:B:2417:LEU:CD1	2.61	0.51
1:B:2428:LEU:HD22	1:B:2428:LEU:C	2.32	0.51
1:D:569:LYS:HB2	2:D:2801:JYP:O14	2.10	0.51
1:D:998:LYS:O	1:D:1002:ASP:N	2.33	0.51
1:D:1795:VAL:O	1:D:1799:LEU:N	2.39	0.51
1:D:2436:ARG:NH2	1:D:2595:ASP:OD2	2.43	0.51
1:A:62:PRO:HB2	1:A:107:ASN:OD1	2.10	0.51
1:C:453:LEU:C	1:C:521:LYS:HD2	2.35	0.51
1:C:2184:GLU:OE1	1:C:2184:GLU:N	2.43	0.51
1:C:2425:GLU:O	1:C:2429:ASN:N	2.43	0.51
1:B:2184:GLU:OE1	1:B:2184:GLU:N	2.43	0.51
1:D:964:ASP:O	1:D:968:MET:N	2.36	0.51
1:A:38:VAL:HB	1:A:206:CYS:HB3	1.92	0.51
1:A:517:LYS:HA	1:A:517:LYS:HZ3	1.76	0.51
1:A:554:ARG:HH11	1:A:554:ARG:CG	2.12	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1813:MET:CA	1:A:1853:SER:CA	2.89	0.51
1:A:2695:LEU:N	1:A:2695:LEU:CD1	2.74	0.51
1:C:38:VAL:HB	1:C:206:CYS:HB3	1.92	0.51
1:C:164:GLN:O	1:C:183:VAL:N	2.44	0.51
1:C:269:ARG:HB3	2:C:2801:JYP:C2	2.28	0.51
1:C:1209:GLY:CA	1:C:1259:ILE:C	2.83	0.51
1:C:2350:LEU:N	1:C:2350:LEU:CD2	2.73	0.51
1:B:23:THR:HG21	1:B:207:ASN:HD22	1.74	0.51
1:B:963:GLU:O	1:B:967:VAL:N	2.37	0.51
1:D:116:GLN:HA	1:D:175:SER:HA	1.92	0.51
1:D:2573:PHE:CD1	1:D:2577:VAL:CG2	2.92	0.51
1:A:199:GLN:NE2	1:A:200:LEU:O	2.44	0.51
1:C:85:ASP:HA	1:C:89:LEU:HD12	1.91	0.51
2:C:2801:JYP:O16	2:C:2801:JYP:C11	2.59	0.51
1:B:199:GLN:NE2	1:B:200:LEU:O	2.44	0.51
1:B:199:GLN:NE2	1:B:203:ASN:O	2.43	0.51
1:B:450:SER:HA	1:B:453:LEU:CD1	2.38	0.51
1:B:549:PHE:C	1:B:549:PHE:CD1	2.86	0.51
1:B:1209:GLY:CA	1:B:1259:ILE:C	2.83	0.51
1:B:2573:PHE:CD1	1:B:2577:VAL:CG2	2.92	0.51
1:D:2566:ARG:NH1	1:D:2566:ARG:CG	2.71	0.51
1:A:164:GLN:O	1:A:183:VAL:N	2.44	0.51
1:A:438:ALA:HA	1:A:441:ARG:HH22	1.75	0.51
1:A:2285:VAL:O	1:A:2286:LEU:C	2.54	0.51
1:C:2391:GLU:HA	1:C:2391:GLU:OE1	2.11	0.51
1:C:2654:THR:C	1:C:2657:THR:HG22	2.27	0.51
1:B:116:GLN:HA	1:B:175:SER:HA	1.92	0.51
1:B:517:LYS:HA	1:B:517:LYS:HZ3	1.74	0.51
1:B:1797:CYS:O	1:B:1801:LYS:N	2.39	0.51
1:D:568:ARG:CA	1:D:571:GLN:HE22	2.23	0.51
1:A:88:LEU:CD1	1:A:88:LEU:N	2.72	0.51
1:A:1085:ARG:C	1:A:1088:SER:H	2.18	0.51
1:C:116:GLN:HA	1:C:175:SER:HA	1.92	0.51
1:C:1813:MET:CA	1:C:1853:SER:CA	2.89	0.51
1:C:2351:GLN:N	1:C:2352:PRO:CD	2.72	0.51
1:C:2707:LYS:CG	1:D:2706:MET:HB3	2.40	0.51
1:B:164:GLN:O	1:B:183:VAL:N	2.44	0.51
1:B:269:ARG:HB3	2:B:2801:JYP:C2	2.28	0.51
1:B:2391:GLU:OE1	1:B:2391:GLU:HA	2.11	0.51
1:B:2423:ARG:C	1:B:2423:ARG:CD	2.84	0.51
1:D:85:ASP:HA	1:D:89:LEU:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:817:ASP:C	1:D:878:PHE:N	2.69	0.51
1:D:1209:GLY:CA	1:D:1259:ILE:C	2.83	0.51
1:D:2391:GLU:OE1	1:D:2391:GLU:HA	2.11	0.51
1:D:2566:ARG:NH1	1:D:2566:ARG:CB	2.73	0.51
1:D:2716:LEU:HD23	1:D:2716:LEU:N	2.04	0.51
1:A:447:ASN:HB2	1:A:513:GLN:OE1	2.09	0.51
1:A:507:GLN:CG	1:A:567:TYR:CE1	2.76	0.51
1:A:569:LYS:HB2	2:A:2801:JYP:O14	2.10	0.51
1:A:2350:LEU:N	1:A:2350:LEU:CD2	2.73	0.51
1:A:2436:ARG:NH2	1:A:2595:ASP:OD2	2.43	0.51
1:A:2586:PHE:CB	1:D:2583:ASN:HD22	2.24	0.51
1:A:2707:LYS:CD	1:B:2706:MET:HB3	2.41	0.51
1:C:817:ASP:C	1:C:878:PHE:N	2.69	0.51
1:C:1797:CYS:O	1:C:1801:LYS:N	2.39	0.51
1:C:1961:ALA:C	1:C:1963:ILE:N	2.60	0.51
1:C:2348:VAL:CB	1:C:2353:THR:HG22	2.31	0.51
1:B:239:VAL:HG12	1:B:283:GLU:HB2	1.91	0.51
1:B:2026:ASN:O	1:B:2029:ASN:N	2.41	0.51
1:B:2350:LEU:CD2	1:B:2350:LEU:N	2.73	0.51
1:B:2719:LEU:HD12	1:B:2719:LEU:C	2.36	0.51
1:D:275:ALA:CA	2:D:2801:JYP:N4	2.74	0.51
1:D:515:ILE:HD12	1:D:515:ILE:C	2.35	0.51
1:D:2695:LEU:N	1:D:2695:LEU:CD1	2.74	0.51
1:A:438:ALA:HA	1:A:441:ARG:HH12	1.76	0.51
1:A:1291:VAL:O	1:A:1295:PHE:N	2.32	0.51
1:C:510:MET:C	1:C:515:ILE:CG2	2.81	0.51
1:C:582:GLN:NE2	1:C:582:GLN:CA	2.72	0.51
1:C:817:ASP:CA	1:C:878:PHE:C	2.84	0.51
1:C:2433:SER:CA	1:C:2592:THR:HG21	2.41	0.51
1:C:2719:LEU:C	1:C:2719:LEU:HD12	2.36	0.51
1:B:2362:VAL:HG13	1:B:2363:CYS:N	2.26	0.51
1:B:2433:SER:CA	1:B:2592:THR:HG21	2.41	0.51
1:B:2581:VAL:HG23	1:B:2581:VAL:O	2.11	0.51
1:D:453:LEU:C	1:D:521:LYS:HD2	2.35	0.51
1:D:817:ASP:CA	1:D:878:PHE:C	2.84	0.51
1:D:2423:ARG:C	1:D:2423:ARG:CD	2.84	0.51
1:A:104:GLU:C	1:A:106:GLU:N	2.64	0.51
1:A:2566:ARG:NH1	1:A:2566:ARG:CB	2.73	0.51
1:C:441:ARG:NH1	1:C:441:ARG:CG	2.73	0.51
1:C:2412:PHE:O	1:C:2414:SER:CA	2.56	0.51
1:C:2698:LEU:HD23	1:C:2698:LEU:C	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:62:PRO:HB2	1:B:107:ASN:OD1	2.10	0.51
1:B:1085:ARG:C	1:B:1088:SER:H	2.19	0.51
1:D:199:GLN:NE2	1:D:200:LEU:O	2.44	0.51
1:D:2219:LEU:HD12	1:D:2250:LEU:HD11	1.93	0.51
1:D:2559:GLU:O	1:D:2563:PHE:CD1	2.64	0.51
1:D:2622:ASP:OD1	1:D:2628:PHE:CG	2.55	0.51
1:D:2719:LEU:C	1:D:2719:LEU:HD12	2.36	0.51
2:D:2801:JYP:O16	2:D:2801:JYP:C11	2.58	0.51
1:A:817:ASP:C	1:A:878:PHE:N	2.69	0.50
1:A:2404:MET:HG3	1:A:2412:PHE:CE1	2.47	0.50
1:A:2406:LEU:C	1:A:2406:LEU:CD2	2.85	0.50
1:A:2428:LEU:HD22	1:A:2428:LEU:C	2.32	0.50
2:A:2801:JYP:O16	2:A:2801:JYP:C11	2.59	0.50
1:C:509:LEU:HA	1:C:512:GLU:CB	2.39	0.50
1:C:514:ASN:CB	1:C:517:LYS:H	2.21	0.50
1:C:2453:TYR:O	1:C:2456:SER:OG	2.26	0.50
1:B:1296:VAL:O	1:B:1301:THR:N	2.44	0.50
1:B:2384:ARG:HB3	1:B:2387:VAL:CG1	2.41	0.50
1:B:2571:LEU:O	1:B:2574:PHE:N	2.45	0.50
1:D:85:ASP:H	1:D:89:LEU:HD12	1.76	0.50
1:D:2239:LYS:HE2	1:D:2240:ILE:CG1	2.41	0.50
1:D:2406:LEU:C	1:D:2406:LEU:CD2	2.85	0.50
1:A:275:ALA:CA	2:A:2801:JYP:N4	2.74	0.50
1:A:486:GLY:HA3	1:A:510:MET:HE1	1.93	0.50
1:A:2239:LYS:HE2	1:A:2240:ILE:CG1	2.41	0.50
1:A:2423:ARG:NH2	1:A:2425:GLU:HG3	2.26	0.50
1:A:2559:GLU:O	1:A:2563:PHE:CD1	2.64	0.50
1:C:199:GLN:NE2	1:C:200:LEU:O	2.44	0.50
1:C:486:GLY:HA3	1:C:510:MET:HE1	1.93	0.50
1:C:515:ILE:HD12	1:C:515:ILE:C	2.35	0.50
1:C:2285:VAL:O	1:C:2286:LEU:C	2.54	0.50
1:C:2559:GLU:O	1:C:2563:PHE:CD1	2.64	0.50
1:B:1813:MET:CA	1:B:1853:SER:CA	2.89	0.50
1:B:2219:LEU:HD12	1:B:2250:LEU:HD11	1.93	0.50
1:B:2239:LYS:HE2	1:B:2240:ILE:CG1	2.41	0.50
1:B:2287:MET:O	1:B:2290:LEU:HB2	2.08	0.50
1:B:2370:MET:CE	1:B:2370:MET:CA	2.85	0.50
1:B:2423:ARG:NH2	1:B:2425:GLU:HG3	2.26	0.50
1:D:1085:ARG:C	1:D:1088:SER:H	2.19	0.50
1:D:2272:ASN:CG	1:D:2276:TRP:HZ2	2.17	0.50
1:D:2389:ASP:HA	1:D:2392:PHE:CZ	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2698:LEU:HD23	1:D:2698:LEU:C	2.36	0.50
1:A:85:ASP:H	1:A:89:LEU:HD12	1.76	0.50
1:A:508:LYS:HG3	1:A:570:ASN:HD21	1.77	0.50
1:A:515:ILE:HD12	1:A:515:ILE:C	2.35	0.50
1:A:2219:LEU:HD12	1:A:2250:LEU:HD11	1.93	0.50
1:A:2427:LEU:HD21	1:D:2447:LEU:HD12	1.93	0.50
1:C:2385:ALA:HA	1:C:2388:LEU:HD21	1.94	0.50
1:C:2581:VAL:HG23	1:C:2581:VAL:O	2.11	0.50
1:C:2583:ASN:HB3	1:D:2586:PHE:HE1	1.62	0.50
1:C:2696:ARG:NH2	1:D:2696:ARG:HH22	2.09	0.50
1:B:85:ASP:H	1:B:89:LEU:HD12	1.76	0.50
1:B:2624:LYS:HE3	1:B:2625:THR:HB	1.94	0.50
1:B:2695:LEU:N	1:B:2695:LEU:CD1	2.74	0.50
1:D:438:ALA:HA	1:D:441:ARG:HH22	1.75	0.50
1:D:447:ASN:CB	1:D:513:GLN:OE1	2.60	0.50
1:D:1317:LYS:CA	1:D:1385:CYS:O	2.58	0.50
1:D:1808:VAL:O	1:D:1812:ILE:N	2.40	0.50
1:D:2581:VAL:O	1:D:2581:VAL:HG23	2.11	0.50
1:A:450:SER:N	1:A:453:LEU:HG	2.24	0.50
1:A:817:ASP:CA	1:A:878:PHE:C	2.84	0.50
1:A:2696:ARG:NH1	1:D:2696:ARG:HH21	2.02	0.50
1:C:199:GLN:NE2	1:C:203:ASN:O	2.43	0.50
1:C:2289:LEU:N	1:C:2289:LEU:CD1	2.72	0.50
1:C:2345:ILE:CG2	1:C:2348:VAL:CG1	2.88	0.50
1:C:2365:LYS:HZ3	1:C:2395:HIS:HA	1.75	0.50
1:C:2423:ARG:NH2	1:C:2425:GLU:HG3	2.26	0.50
1:C:2706:MET:C	1:B:2707:LYS:HE2	2.36	0.50
1:B:573:TYR:O	1:B:577:GLN:CD	2.52	0.50
1:B:2559:GLU:O	1:B:2563:PHE:CD1	2.64	0.50
1:D:2410:GLU:HB2	1:D:2411:PHE:CG	2.47	0.50
1:D:2624:LYS:HE3	1:D:2625:THR:HB	1.94	0.50
1:A:457:ALA:N	1:A:521:LYS:HE3	2.27	0.50
1:A:523:LEU:C	1:A:523:LEU:CD2	2.85	0.50
1:A:2362:VAL:HG13	1:A:2363:CYS:N	2.26	0.50
1:A:2410:GLU:HB2	1:A:2411:PHE:CG	2.47	0.50
1:A:2698:LEU:HD23	1:A:2698:LEU:C	2.36	0.50
1:A:2710:THR:CG2	1:A:2711:ASN:N	2.74	0.50
1:C:62:PRO:HB2	1:C:107:ASN:OD1	2.10	0.50
1:C:447:ASN:CB	1:C:513:GLN:OE1	2.60	0.50
1:C:2571:LEU:O	1:C:2574:PHE:N	2.45	0.50
1:C:2695:LEU:N	1:C:2695:LEU:CD1	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:VAL:HB	1:B:206:CYS:HB3	1.92	0.50
1:B:380:SER:O	1:B:380:SER:OG	2.24	0.50
1:B:438:ALA:HA	1:B:441:ARG:HH12	1.76	0.50
1:B:817:ASP:C	1:B:878:PHE:N	2.69	0.50
1:B:2559:GLU:OE2	1:B:2562:LEU:CG	2.47	0.50
1:D:72:PHE:CE1	1:D:93:HIS:CB	2.86	0.50
1:D:438:ALA:HA	1:D:441:ARG:HH12	1.76	0.50
1:D:2404:MET:HG3	1:D:2412:PHE:CE1	2.47	0.50
1:A:453:LEU:CB	1:A:521:LYS:HZ3	2.24	0.50
1:A:522:LEU:C	1:A:522:LEU:CD1	2.85	0.50
1:A:1296:VAL:O	1:A:1301:THR:N	2.44	0.50
1:A:2624:LYS:HE3	1:A:2625:THR:HB	1.94	0.50
1:C:486:GLY:HA3	1:C:510:MET:CE	2.41	0.50
1:C:517:LYS:NZ	1:C:517:LYS:CA	2.73	0.50
1:C:1085:ARG:C	1:C:1088:SER:H	2.19	0.50
1:C:2624:LYS:HE3	1:C:2625:THR:HB	1.94	0.50
1:B:486:GLY:HA3	1:B:510:MET:HE1	1.93	0.50
1:B:1107:GLN:O	1:B:1108:ASP:C	2.53	0.50
1:B:2406:LEU:C	1:B:2406:LEU:CD2	2.85	0.50
1:D:2412:PHE:CD1	1:D:2415:LEU:CD1	2.95	0.50
1:D:2423:ARG:NH2	1:D:2425:GLU:HG3	2.26	0.50
1:A:74:LYS:CE	1:A:74:LYS:CA	2.85	0.50
1:A:2345:ILE:CG2	1:A:2348:VAL:CG1	2.88	0.50
1:A:2571:LEU:O	1:A:2574:PHE:N	2.45	0.50
1:C:275:ALA:CA	2:C:2801:JYP:N4	2.74	0.50
1:C:638:CYS:C	1:C:639:VAL:O	2.55	0.50
1:C:2186:LEU:HD23	1:C:2189:TYR:CE2	2.47	0.50
1:C:2710:THR:CG2	1:C:2711:ASN:N	2.74	0.50
1:B:515:ILE:HD12	1:B:515:ILE:C	2.35	0.50
1:B:2389:ASP:HA	1:B:2392:PHE:CZ	2.46	0.50
1:B:2404:MET:HG3	1:B:2412:PHE:CE1	2.47	0.50
1:B:2410:GLU:HB2	1:B:2411:PHE:CG	2.47	0.50
1:D:164:GLN:O	1:D:183:VAL:N	2.44	0.50
1:D:457:ALA:N	1:D:521:LYS:HE3	2.27	0.50
1:D:1296:VAL:O	1:D:1301:THR:N	2.44	0.50
1:D:1619:VAL:O	1:D:1621:ALA:C	2.50	0.50
1:D:1798:HIS:O	1:D:1802:GLU:N	2.40	0.50
1:A:441:ARG:CZ	1:A:441:ARG:CB	2.85	0.50
1:A:2558:LYS:CE	1:B:2528:CYS:HA	2.42	0.50
1:C:85:ASP:H	1:C:89:LEU:HD12	1.76	0.50
1:C:253:CYS:HA	1:C:262:VAL:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:438:ALA:HA	1:C:441:ARG:HH12	1.76	0.50
1:C:443:LEU:C	1:C:443:LEU:CD2	2.84	0.50
1:C:457:ALA:N	1:C:521:LYS:HE3	2.27	0.50
1:C:1296:VAL:O	1:C:1301:THR:N	2.44	0.50
1:C:2026:ASN:O	1:C:2029:ASN:N	2.41	0.50
1:C:2239:LYS:HE2	1:C:2240:ILE:CG1	2.41	0.50
1:C:2362:VAL:HG13	1:C:2363:CYS:N	2.26	0.50
1:C:2406:LEU:CD2	1:C:2406:LEU:C	2.85	0.50
1:B:104:GLU:C	1:B:106:GLU:N	2.64	0.50
1:B:447:ASN:CB	1:B:513:GLN:OE1	2.60	0.50
1:B:450:SER:HA	1:B:453:LEU:HG	1.94	0.50
1:B:486:GLY:HA3	1:B:510:MET:CE	2.42	0.50
1:B:508:LYS:HG3	1:B:570:ASN:HD21	1.77	0.50
1:B:2107:GLU:O	1:B:2111:ARG:N	2.45	0.50
1:B:2412:PHE:CD1	1:B:2415:LEU:CD1	2.95	0.50
1:B:2425:GLU:O	1:B:2429:ASN:N	2.43	0.50
1:B:2698:LEU:HD23	1:B:2698:LEU:C	2.36	0.50
1:B:2710:THR:CG2	1:B:2711:ASN:N	2.74	0.50
1:D:253:CYS:HA	1:D:262:VAL:HA	1.94	0.50
1:D:486:GLY:HA3	1:D:510:MET:HE1	1.93	0.50
1:D:1072:TYR:O	1:D:1075:LEU:C	2.47	0.50
1:D:2385:ALA:HA	1:D:2388:LEU:HD21	1.94	0.50
1:A:447:ASN:CB	1:A:513:GLN:OE1	2.60	0.50
1:A:2186:LEU:HD23	1:A:2189:TYR:CE2	2.47	0.50
1:A:2423:ARG:C	1:A:2423:ARG:CD	2.84	0.50
1:C:2216:CYS:HG	1:C:2646:VAL:HG21	1.72	0.50
1:C:2384:ARG:HB3	1:C:2387:VAL:CG1	2.41	0.50
1:C:2573:PHE:CD1	1:C:2577:VAL:CG2	2.93	0.50
1:B:2385:ALA:HA	1:B:2388:LEU:HD21	1.94	0.50
1:B:2412:PHE:C	1:B:2414:SER:H	2.14	0.50
1:B:2730:LYS:C	1:B:2730:LYS:CD	2.85	0.50
1:D:486:GLY:HA3	1:D:510:MET:CE	2.41	0.50
1:D:2186:LEU:HD23	1:D:2189:TYR:CE2	2.47	0.50
1:D:2369:LEU:HG	1:D:2370:MET:HE1	1.94	0.50
1:D:2433:SER:CA	1:D:2592:THR:HG21	2.41	0.50
1:D:2730:LYS:C	1:D:2730:LYS:CD	2.85	0.50
1:A:450:SER:HA	1:A:453:LEU:HG	1.94	0.49
1:A:486:GLY:HA3	1:A:510:MET:CE	2.42	0.49
1:A:1798:HIS:O	1:A:1802:GLU:N	2.40	0.49
1:A:2354:LEU:C	1:A:2354:LEU:CD1	2.85	0.49
1:A:2719:LEU:C	1:A:2719:LEU:HD12	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1107:GLN:O	1:C:1108:ASP:C	2.53	0.49
1:C:1317:LYS:CA	1:C:1385:CYS:O	2.58	0.49
1:C:2345:ILE:HD11	1:C:2356:LEU:CD1	2.42	0.49
1:B:74:LYS:HA	1:B:74:LYS:HZ2	1.74	0.49
1:B:253:CYS:HA	1:B:262:VAL:HA	1.94	0.49
1:D:582:GLN:NE2	1:D:582:GLN:CA	2.72	0.49
1:D:638:CYS:C	1:D:639:VAL:O	2.55	0.49
1:D:2354:LEU:C	1:D:2354:LEU:CD1	2.85	0.49
1:D:2710:THR:CG2	1:D:2711:ASN:N	2.74	0.49
1:A:250:PHE:O	1:A:264:LEU:CB	2.61	0.49
1:A:503:ASN:HD21	1:A:505:GLU:HB2	1.77	0.49
1:A:2384:ARG:HB3	1:A:2387:VAL:CG1	2.41	0.49
1:A:2401:ILE:CD1	1:A:2401:ILE:C	2.85	0.49
1:A:2707:LYS:HG2	1:B:2706:MET:CB	2.38	0.49
1:C:81:ASN:N	1:C:81:ASN:ND2	2.60	0.49
1:C:508:LYS:HG3	1:C:570:ASN:HD21	1.77	0.49
1:C:554:ARG:C	1:C:554:ARG:CD	2.85	0.49
1:C:2423:ARG:C	1:C:2423:ARG:CD	2.84	0.49
1:C:2622:ASP:OD1	1:C:2628:PHE:CG	2.55	0.49
1:B:64:ASN:ND2	1:B:103:ASN:HB3	2.28	0.49
1:B:554:ARG:C	1:B:554:ARG:CD	2.85	0.49
1:B:2345:ILE:HD11	1:B:2356:LEU:HD11	1.94	0.49
1:B:2654:THR:C	1:B:2657:THR:HG22	2.27	0.49
1:D:64:ASN:ND2	1:D:103:ASN:HB3	2.27	0.49
1:D:517:LYS:NZ	1:D:517:LYS:CA	2.73	0.49
1:D:554:ARG:CD	1:D:554:ARG:C	2.85	0.49
1:D:2264:PRO:HA	1:D:2267:TYR:CD2	2.48	0.49
1:D:2345:ILE:HD11	1:D:2356:LEU:CD1	2.42	0.49
1:A:509:LEU:HA	1:A:512:GLU:CB	2.39	0.49
1:A:1209:GLY:CA	1:A:1259:ILE:CA	2.91	0.49
1:A:2345:ILE:HD11	1:A:2356:LEU:HD11	1.94	0.49
1:A:2433:SER:CA	1:A:2592:THR:HG21	2.41	0.49
1:A:2581:VAL:O	1:A:2581:VAL:HG23	2.11	0.49
1:C:1808:VAL:O	1:C:1812:ILE:N	2.40	0.49
1:C:2389:ASP:HA	1:C:2392:PHE:CZ	2.47	0.49
1:C:2393:LEU:HD11	1:C:2394:TYR:CZ	2.47	0.49
1:B:571:GLN:HB3	1:B:574:ILE:CD1	2.38	0.49
1:B:2626:VAL:HG12	1:B:2627:THR:H	0.34	0.49
1:B:2698:LEU:C	1:B:2698:LEU:CD2	2.86	0.49
1:D:444:ASP:HA	1:D:447:ASN:ND2	2.28	0.49
1:D:2239:LYS:HZ3	1:D:2677:ARG:CD	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2345:ILE:HD11	1:D:2356:LEU:HD11	1.94	0.49
1:D:2362:VAL:HG13	1:D:2363:CYS:N	2.26	0.49
1:D:2384:ARG:HB3	1:D:2387:VAL:CG1	2.41	0.49
1:D:2698:LEU:C	1:D:2698:LEU:CD2	2.85	0.49
1:A:64:ASN:ND2	1:A:103:ASN:HB3	2.28	0.49
1:A:253:CYS:HA	1:A:262:VAL:HA	1.94	0.49
1:A:443:LEU:HD23	1:A:513:GLN:NE2	2.28	0.49
1:A:554:ARG:CD	1:A:554:ARG:C	2.85	0.49
1:A:2626:VAL:HG12	1:A:2627:THR:H	0.34	0.49
1:A:2651:LYS:HE2	1:A:2653:SER:H	1.77	0.49
1:C:64:ASN:ND2	1:C:103:ASN:HB3	2.28	0.49
1:C:524:GLN:HA	1:C:527:PHE:CD2	2.45	0.49
1:C:2219:LEU:HD12	1:C:2250:LEU:HD11	1.93	0.49
1:C:2348:VAL:HG23	1:C:2350:LEU:HD22	1.95	0.49
1:C:2410:GLU:HB2	1:C:2411:PHE:CG	2.47	0.49
1:B:503:ASN:HD21	1:B:505:GLU:HB2	1.77	0.49
1:B:2351:GLN:N	1:B:2352:PRO:CD	2.72	0.49
1:B:2393:LEU:HD11	1:B:2394:TYR:CZ	2.48	0.49
1:B:2401:ILE:CD1	1:B:2401:ILE:C	2.85	0.49
1:D:57:LEU:HD12	1:D:127:LYS:HB2	1.95	0.49
1:D:503:ASN:HD21	1:D:505:GLU:HB2	1.77	0.49
1:D:2348:VAL:HG23	1:D:2350:LEU:HD22	1.95	0.49
1:D:2384:ARG:O	1:D:2388:LEU:HD23	2.06	0.49
1:A:444:ASP:HA	1:A:447:ASN:ND2	2.28	0.49
1:A:2396:LEU:HD22	1:A:2400:LEU:HG	1.95	0.49
1:A:2412:PHE:CD1	1:A:2415:LEU:CD1	2.95	0.49
1:A:2448:ALA:O	1:A:2452:VAL:N	2.39	0.49
1:C:57:LEU:HD12	1:C:127:LYS:HB2	1.95	0.49
1:C:2404:MET:HG3	1:C:2412:PHE:CE1	2.47	0.49
1:C:2651:LYS:HE2	1:C:2653:SER:H	1.77	0.49
1:C:2677:ARG:CD	1:D:2623:ASN:OD1	2.40	0.49
1:B:457:ALA:N	1:B:521:LYS:HE3	2.27	0.49
1:B:563:SER:HB3	1:B:567:TYR:HE2	1.77	0.49
1:B:2348:VAL:HG23	1:B:2350:LEU:HD22	1.95	0.49
1:B:2369:LEU:HG	1:B:2370:MET:HE1	1.94	0.49
1:D:1209:GLY:CA	1:D:1259:ILE:CA	2.91	0.49
1:D:2393:LEU:HD11	1:D:2394:TYR:CZ	2.47	0.49
1:D:2571:LEU:O	1:D:2574:PHE:N	2.45	0.49
1:A:81:ASN:N	1:A:81:ASN:ND2	2.60	0.49
1:A:244:HIS:NE2	1:A:427:LYS:O	2.41	0.49
1:A:750:LEU:O	1:A:754:GLU:N	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1107:GLN:O	1:A:1108:ASP:C	2.53	0.49
1:A:2369:LEU:HG	1:A:2370:MET:HE1	1.94	0.49
1:A:2571:LEU:O	1:A:2574:PHE:CB	2.56	0.49
1:A:2698:LEU:C	1:A:2698:LEU:CD2	2.86	0.49
1:C:39:VAL:N	1:C:207:ASN:O	2.45	0.49
1:C:563:SER:HB3	1:C:567:TYR:HE2	1.77	0.49
1:C:2412:PHE:CD1	1:C:2415:LEU:CD1	2.95	0.49
1:C:2586:PHE:CA	1:B:2583:ASN:HD22	2.26	0.49
1:C:2698:LEU:C	1:C:2698:LEU:CD2	2.85	0.49
1:C:2716:LEU:HD23	1:C:2716:LEU:N	2.04	0.49
1:C:2728:LYS:HA	1:C:2731:GLN:OE1	2.13	0.49
1:B:81:ASN:N	1:B:81:ASN:ND2	2.60	0.49
1:B:452:VAL:O	1:B:455:SER:N	2.46	0.49
1:B:2365:LYS:HZ1	1:B:2395:HIS:CB	2.26	0.49
1:B:2651:LYS:HE2	1:B:2653:SER:H	1.77	0.49
1:D:508:LYS:HG3	1:D:570:ASN:HD21	1.77	0.49
1:D:567:TYR:O	1:D:571:GLN:NE2	2.46	0.49
1:A:2287:MET:O	1:A:2290:LEU:HB2	2.08	0.49
1:A:2345:ILE:HD11	1:A:2356:LEU:CD1	2.42	0.49
1:A:2385:ALA:HA	1:A:2388:LEU:HD21	1.94	0.49
1:A:2393:LEU:HD11	1:A:2394:TYR:CZ	2.47	0.49
1:A:2556:PRO:O	1:A:2563:PHE:HE1	1.96	0.49
1:C:444:ASP:HA	1:C:447:ASN:ND2	2.28	0.49
1:C:450:SER:HA	1:C:453:LEU:HG	1.94	0.49
1:C:638:CYS:O	1:C:643:LYS:N	2.46	0.49
1:C:963:GLU:O	1:C:967:VAL:N	2.37	0.49
1:C:1295:PHE:O	1:C:1299:ILE:N	2.44	0.49
1:C:2588:VAL:O	1:C:2592:THR:OG1	2.29	0.49
1:B:2285:VAL:O	1:B:2286:LEU:C	2.54	0.49
1:D:1198:ARG:O	1:D:1202:GLN:N	2.46	0.49
1:D:1295:PHE:O	1:D:1299:ILE:N	2.44	0.49
1:D:1837:THR:O	1:D:1841:HIS:N	2.37	0.49
1:A:203:ASN:HB3	1:A:206:CYS:HB2	1.95	0.49
1:A:1198:ARG:O	1:A:1202:GLN:N	2.46	0.49
1:A:2389:ASP:HA	1:A:2392:PHE:CZ	2.47	0.49
1:A:2699:GLN:CG	1:D:2700:GLU:OE1	2.61	0.49
1:C:523:LEU:C	1:C:523:LEU:CD2	2.85	0.49
1:C:2239:LYS:CG	1:C:2240:ILE:N	2.54	0.49
1:B:275:ALA:CA	2:B:2801:JYP:N4	2.74	0.49
1:B:520:PHE:CE1	1:B:523:LEU:HD11	2.45	0.49
1:B:2278:SER:HB2	1:B:2281:PHE:HZ	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2345:ILE:HD11	1:B:2356:LEU:CD1	2.42	0.49
1:B:2683:LEU:C	1:B:2684:VAL:CG2	2.79	0.49
1:D:963:GLU:O	1:D:967:VAL:N	2.37	0.49
1:D:2240:ILE:N	1:D:2240:ILE:CD1	2.71	0.49
1:A:2348:VAL:HG23	1:A:2350:LEU:HD22	1.95	0.49
1:A:2391:GLU:OE1	1:A:2391:GLU:HA	2.11	0.49
1:A:2401:ILE:HG21	1:A:2416:LEU:HD13	0.59	0.49
1:C:449:ALA:O	1:C:453:LEU:N	2.30	0.49
1:C:568:ARG:N	1:C:571:GLN:NE2	2.60	0.49
1:C:646:PRO:C	1:C:649:GLN:H	2.02	0.49
1:C:2264:PRO:HA	1:C:2267:TYR:CD2	2.48	0.49
1:C:2730:LYS:C	1:C:2730:LYS:CD	2.85	0.49
1:B:444:ASP:HA	1:B:447:ASN:ND2	2.28	0.49
1:B:1209:GLY:CA	1:B:1259:ILE:CA	2.91	0.49
1:B:1619:VAL:O	1:B:1621:ALA:CA	2.58	0.49
1:D:199:GLN:NE2	1:D:203:ASN:O	2.44	0.49
1:D:443:LEU:HD23	1:D:513:GLN:NE2	2.28	0.49
1:D:2026:ASN:O	1:D:2029:ASN:N	2.41	0.49
1:D:2728:LYS:HA	1:D:2731:GLN:OE1	2.13	0.49
1:A:57:LEU:HD12	1:A:127:LYS:HB2	1.95	0.49
1:A:520:PHE:CE1	1:A:523:LEU:HD11	2.45	0.49
1:A:2264:PRO:HA	1:A:2267:TYR:CD2	2.48	0.49
1:C:516:LEU:H	1:C:516:LEU:CD1	2.14	0.49
1:C:2735:LEU:HD22	1:C:2735:LEU:C	2.35	0.49
1:B:2234:ASP:N	1:B:2234:ASP:OD1	2.46	0.49
1:B:2720:LYS:HZ1	1:B:2723:MET:HE3	1.77	0.49
1:D:81:ASN:N	1:D:81:ASN:ND2	2.60	0.49
1:D:510:MET:C	1:D:515:ILE:CG2	2.81	0.49
1:D:638:CYS:O	1:D:643:LYS:N	2.46	0.49
1:D:771:GLU:O	1:D:772:ASN:C	2.50	0.49
1:D:1072:TYR:O	1:D:1073:PRO:C	2.55	0.49
1:D:2033:ILE:O	1:D:2037:LEU:N	2.31	0.49
1:D:2401:ILE:HG21	1:D:2416:LEU:HD13	0.59	0.49
1:D:2556:PRO:O	1:D:2563:PHE:HE1	1.96	0.49
1:D:2726:GLN:CD	1:D:2726:GLN:N	2.71	0.49
1:A:568:ARG:N	1:A:571:GLN:NE2	2.60	0.48
1:C:2107:GLU:O	1:C:2111:ARG:N	2.45	0.48
1:C:2213:PRO:CG	1:C:2647:LEU:CG	2.70	0.48
1:C:2345:ILE:HD11	1:C:2356:LEU:HD11	1.94	0.48
1:C:2699:GLN:CG	1:B:2700:GLU:OE1	2.60	0.48
1:B:2396:LEU:HD22	1:B:2400:LEU:HG	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2566:ARG:C	1:B:2566:ARG:NE	2.71	0.48
1:D:514:ASN:CB	1:D:517:LYS:H	2.21	0.48
1:D:563:SER:HB3	1:D:567:TYR:HE2	1.77	0.48
1:D:2651:LYS:HE2	1:D:2653:SER:H	1.77	0.48
1:A:131:TYR:HB2	1:A:152:ASP:HB3	1.95	0.48
1:C:203:ASN:HB3	1:C:206:CYS:HB2	1.95	0.48
1:C:2556:PRO:O	1:C:2563:PHE:HE1	1.96	0.48
1:B:88:LEU:CD1	1:B:88:LEU:N	2.72	0.48
1:B:443:LEU:HD23	1:B:513:GLN:NE2	2.28	0.48
1:B:638:CYS:O	1:B:643:LYS:N	2.46	0.48
1:B:2186:LEU:HD23	1:B:2189:TYR:CE2	2.47	0.48
1:B:2264:PRO:HA	1:B:2267:TYR:CD2	2.48	0.48
1:B:2271:ARG:HH12	1:B:2272:ASN:ND2	1.89	0.48
1:D:2107:GLU:O	1:D:2111:ARG:N	2.45	0.48
1:D:2349:GLY:C	1:D:2351:GLN:H	2.12	0.48
1:A:452:VAL:O	1:A:455:SER:N	2.46	0.48
1:A:2728:LYS:HA	1:A:2731:GLN:OE1	2.13	0.48
1:C:250:PHE:O	1:C:264:LEU:CB	2.61	0.48
1:C:1072:TYR:O	1:C:1075:LEU:C	2.47	0.48
1:C:1209:GLY:CA	1:C:1259:ILE:CA	2.91	0.48
1:C:1798:HIS:O	1:C:1802:GLU:N	2.40	0.48
1:C:2428:LEU:HD22	1:C:2428:LEU:C	2.32	0.48
1:B:269:ARG:CB	2:B:2801:JYP:C2	2.71	0.48
1:B:568:ARG:N	1:B:571:GLN:NE2	2.60	0.48
1:B:2453:TYR:O	1:B:2456:SER:OG	2.26	0.48
1:D:104:GLU:C	1:D:106:GLU:N	2.64	0.48
1:D:250:PHE:O	1:D:264:LEU:CB	2.61	0.48
1:D:269:ARG:HB3	2:D:2801:JYP:C2	2.28	0.48
1:D:2252:ASN:HA	1:D:2255:ASN:HD21	1.79	0.48
1:D:2626:VAL:HG12	1:D:2627:THR:H	0.34	0.48
1:A:638:CYS:O	1:A:643:LYS:N	2.46	0.48
1:A:638:CYS:C	1:A:639:VAL:O	2.55	0.48
1:A:2362:VAL:HG12	1:A:2363:CYS:SG	2.53	0.48
1:C:503:ASN:HD21	1:C:505:GLU:HB2	1.77	0.48
1:C:523:LEU:HD22	1:C:523:LEU:O	2.13	0.48
1:C:2396:LEU:HD22	1:C:2400:LEU:HG	1.95	0.48
1:C:2447:LEU:CD1	1:D:2427:LEU:HD21	2.42	0.48
1:C:2626:VAL:HG12	1:C:2627:THR:H	0.34	0.48
1:B:131:TYR:HB2	1:B:152:ASP:HB3	1.95	0.48
1:D:571:GLN:HB3	1:D:574:ILE:CD1	2.38	0.48
1:D:2680:ALA:O	1:D:2682:SER:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2735:LEU:HD22	1:D:2735:LEU:C	2.34	0.48
1:A:646:PRO:CA	1:A:648:THR:H	2.26	0.48
1:A:2360:PHE:O	1:A:2364:ASN:N	2.38	0.48
1:C:100:LYS:HA	1:C:103:ASN:ND2	2.29	0.48
1:C:1072:TYR:O	1:C:1073:PRO:C	2.55	0.48
1:C:2707:LYS:CD	1:C:2711:ASN:ND2	2.74	0.48
1:B:57:LEU:HD12	1:B:127:LYS:HB2	1.95	0.48
1:B:203:ASN:HB3	1:B:206:CYS:HB2	1.95	0.48
1:B:1198:ARG:O	1:B:1202:GLN:N	2.46	0.48
1:B:2612:PHE:CE1	1:B:2638:MET:CE	2.97	0.48
1:D:100:LYS:HA	1:D:103:ASN:ND2	2.29	0.48
1:D:162:TYR:HD2	1:D:185:ASN:HB3	1.79	0.48
1:D:824:ALA:O	1:D:829:ILE:CA	2.62	0.48
1:A:244:HIS:HE1	1:A:246:GLU:HB2	1.79	0.48
1:A:523:LEU:HD22	1:A:523:LEU:O	2.13	0.48
1:A:563:SER:HB3	1:A:567:TYR:HE2	1.77	0.48
1:A:824:ALA:O	1:A:829:ILE:CA	2.62	0.48
1:A:2252:ASN:HA	1:A:2255:ASN:HD21	1.79	0.48
1:C:571:GLN:HB3	1:C:574:ILE:CD1	2.38	0.48
1:B:2273:MET:CA	1:B:2276:TRP:CD1	2.71	0.48
1:D:2362:VAL:HG12	1:D:2363:CYS:SG	2.53	0.48
1:D:2566:ARG:C	1:D:2566:ARG:NE	2.71	0.48
1:A:2351:GLN:OE1	1:A:2351:GLN:HA	2.14	0.48
1:A:2566:ARG:NE	1:A:2566:ARG:C	2.71	0.48
1:A:2654:THR:C	1:A:2657:THR:HG22	2.27	0.48
1:C:1198:ARG:O	1:C:1202:GLN:N	2.46	0.48
1:C:2369:LEU:HG	1:C:2370:MET:HE1	1.94	0.48
1:C:2590:ILE:HD12	1:C:2590:ILE:HA	1.72	0.48
1:B:100:LYS:HA	1:B:103:ASN:ND2	2.29	0.48
1:B:104:GLU:C	1:B:104:GLU:CD	2.82	0.48
1:B:523:LEU:HD22	1:B:523:LEU:O	2.13	0.48
1:B:567:TYR:O	1:B:571:GLN:NE2	2.46	0.48
1:B:817:ASP:CA	1:B:878:PHE:C	2.84	0.48
1:A:62:PRO:HG2	1:A:107:ASN:OD1	2.14	0.48
1:A:74:LYS:CA	1:A:74:LYS:HE2	2.44	0.48
1:A:2612:PHE:CE1	1:A:2638:MET:CE	2.97	0.48
1:C:452:VAL:O	1:C:455:SER:N	2.46	0.48
1:C:508:LYS:HD2	1:C:570:ASN:HD21	1.79	0.48
1:C:1837:THR:O	1:C:1841:HIS:N	2.37	0.48
1:C:2104:HIS:O	1:C:2105:ASP:C	2.56	0.48
1:C:2706:MET:HB3	1:B:2707:LYS:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:HIS:HE1	1:B:246:GLU:HB2	1.79	0.48
1:B:510:MET:O	1:B:515:ILE:HG22	2.08	0.48
1:B:2728:LYS:HA	1:B:2731:GLN:OE1	2.13	0.48
1:C:104:GLU:C	1:C:104:GLU:CD	2.82	0.48
1:C:2252:ASN:HA	1:C:2255:ASN:HD21	1.79	0.48
1:C:2571:LEU:O	1:C:2574:PHE:CB	2.56	0.48
1:B:2203:ARG:N	1:B:2679:ARG:HH11	2.12	0.48
1:B:2345:ILE:HD12	1:B:2357:LEU:CD2	2.44	0.48
1:B:2362:VAL:HG12	1:B:2363:CYS:SG	2.53	0.48
1:B:2663:VAL:HA	1:B:2666:MET:HB2	1.96	0.48
1:D:452:VAL:O	1:D:455:SER:N	2.46	0.48
1:D:2200:ARG:CD	1:D:2662:TYR:CG	2.92	0.48
1:A:380:SER:O	1:A:380:SER:OG	2.24	0.48
1:C:244:HIS:HE1	1:C:246:GLU:HB2	1.79	0.48
1:C:555:LEU:HD23	1:C:555:LEU:HA	1.72	0.48
1:C:2216:CYS:SG	1:C:2646:VAL:CB	3.02	0.48
1:C:2612:PHE:CE1	1:C:2638:MET:CE	2.97	0.48
1:B:638:CYS:C	1:B:639:VAL:O	2.55	0.48
1:B:646:PRO:CA	1:B:648:THR:H	2.26	0.48
1:B:1072:TYR:O	1:B:1075:LEU:N	2.47	0.48
1:B:2104:HIS:O	1:B:2105:ASP:C	2.56	0.48
1:B:2556:PRO:O	1:B:2563:PHE:HE1	1.96	0.48
1:D:62:PRO:HG2	1:D:107:ASN:OD1	2.14	0.48
1:D:486:GLY:C	1:D:510:MET:HE1	2.39	0.48
1:D:2216:CYS:SG	1:D:2646:VAL:CB	3.02	0.48
1:D:2663:VAL:HA	1:D:2666:MET:HB2	1.96	0.48
1:A:162:TYR:HD2	1:A:185:ASN:HB3	1.79	0.47
1:A:446:ALA:HA	1:A:480:LEU:HD11	1.96	0.47
1:A:508:LYS:HD2	1:A:570:ASN:ND2	2.29	0.47
1:A:2203:ARG:N	1:A:2679:ARG:HH11	2.12	0.47
1:C:443:LEU:HD23	1:C:513:GLN:NE2	2.28	0.47
1:C:824:ALA:O	1:C:829:ILE:CA	2.62	0.47
1:C:1619:VAL:O	1:C:1621:ALA:CA	2.58	0.47
1:C:2201:LEU:HA	1:C:2201:LEU:HD22	1.34	0.47
1:C:2356:LEU:C	1:C:2356:LEU:CD1	2.85	0.47
1:C:2566:ARG:C	1:C:2566:ARG:NE	2.71	0.47
1:B:580:PHE:CD1	1:B:580:PHE:N	2.73	0.47
1:B:1798:HIS:O	1:B:1802:GLU:N	2.40	0.47
1:D:450:SER:N	1:D:453:LEU:HG	2.24	0.47
1:D:1072:TYR:O	1:D:1075:LEU:N	2.47	0.47
1:D:2104:HIS:O	1:D:2105:ASP:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:GLU:C	1:A:104:GLU:CD	2.82	0.47
1:A:1072:TYR:O	1:A:1075:LEU:N	2.47	0.47
1:A:2104:HIS:O	1:A:2105:ASP:C	2.56	0.47
1:A:2199:VAL:HG22	1:A:2206:GLU:H	1.80	0.47
1:A:2696:ARG:HH22	1:D:2696:ARG:NH2	2.12	0.47
1:C:81:ASN:N	1:C:81:ASN:HD22	2.12	0.47
1:C:2285:VAL:CG1	1:C:2286:LEU:H	2.24	0.47
1:B:92:LEU:N	1:B:92:LEU:CD1	2.73	0.47
1:B:1317:LYS:CA	1:B:1385:CYS:CA	2.92	0.47
1:B:1792:LEU:O	1:B:1797:CYS:N	2.44	0.47
1:B:1837:THR:O	1:B:1841:HIS:N	2.37	0.47
1:B:2405:GLY:N	1:B:2408:VAL:HG23	2.29	0.47
1:B:2441:ILE:HD12	1:B:2441:ILE:HA	1.77	0.47
1:B:2559:GLU:C	1:B:2563:PHE:CD1	2.93	0.47
1:D:74:LYS:CA	1:D:74:LYS:HE2	2.44	0.47
1:D:81:ASN:N	1:D:81:ASN:HD22	2.12	0.47
1:D:131:TYR:HB2	1:D:152:ASP:HB3	1.95	0.47
1:D:203:ASN:HB3	1:D:206:CYS:HB2	1.95	0.47
1:D:2199:VAL:HG22	1:D:2206:GLU:H	1.79	0.47
1:D:2272:ASN:O	1:D:2276:TRP:HD1	1.78	0.47
1:D:2361:ASN:ND2	1:D:2401:ILE:CD1	2.50	0.47
1:D:2396:LEU:HD22	1:D:2400:LEU:HG	1.95	0.47
1:D:2428:LEU:HD22	1:D:2428:LEU:C	2.32	0.47
1:A:567:TYR:O	1:A:571:GLN:NE2	2.46	0.47
1:A:2283:LEU:C	1:A:2283:LEU:CD2	2.88	0.47
1:C:567:TYR:O	1:C:571:GLN:NE2	2.46	0.47
1:C:646:PRO:CA	1:C:648:THR:H	2.26	0.47
1:C:2199:VAL:HG22	1:C:2206:GLU:H	1.80	0.47
1:C:2362:VAL:HG12	1:C:2363:CYS:SG	2.54	0.47
1:B:74:LYS:CA	1:B:74:LYS:HE2	2.44	0.47
1:B:108:ARG:NH1	1:B:108:ARG:C	2.73	0.47
1:B:250:PHE:O	1:B:264:LEU:CB	2.61	0.47
1:B:446:ALA:HA	1:B:480:LEU:HD11	1.96	0.47
1:B:514:ASN:HD21	1:B:517:LYS:HD2	1.56	0.47
1:B:517:LYS:NZ	1:B:517:LYS:CA	2.73	0.47
1:B:824:ALA:O	1:B:829:ILE:CA	2.62	0.47
1:B:2285:VAL:CG1	1:B:2286:LEU:H	2.24	0.47
1:D:104:GLU:C	1:D:104:GLU:CD	2.82	0.47
1:D:302:LEU:HG	1:D:367:ILE:HG22	1.95	0.47
1:D:441:ARG:NH1	1:D:441:ARG:CG	2.72	0.47
1:D:523:LEU:HD22	1:D:523:LEU:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:885:LEU:O	1:D:888:THR:C	2.55	0.47
1:D:2283:LEU:C	1:D:2283:LEU:CD2	2.88	0.47
1:D:2399:LEU:C	1:D:2399:LEU:CD2	2.85	0.47
1:D:2559:GLU:C	1:D:2563:PHE:CD1	2.93	0.47
1:D:2632:ILE:H	1:D:2632:ILE:HG13	1.39	0.47
1:A:2301:ARG:HG3	1:A:2303:GLY:H	1.80	0.47
1:A:2639:TRP:HA	1:A:2639:TRP:HE3	1.79	0.47
1:C:71:GLN:HA	1:C:74:LYS:HB2	1.96	0.47
1:C:264:LEU:C	1:C:264:LEU:HD12	2.40	0.47
1:C:1317:LYS:CA	1:C:1385:CYS:CA	2.92	0.47
1:C:2203:ARG:N	1:C:2679:ARG:HH11	2.12	0.47
1:C:2345:ILE:HD12	1:C:2357:LEU:CD2	2.44	0.47
1:C:2354:LEU:C	1:C:2354:LEU:CD1	2.85	0.47
1:C:2559:GLU:C	1:C:2563:PHE:CD1	2.93	0.47
1:B:62:PRO:HG2	1:B:107:ASN:OD1	2.14	0.47
1:B:94:HIS:ND1	1:B:94:HIS:C	2.72	0.47
1:B:508:LYS:HD2	1:B:570:ASN:ND2	2.29	0.47
1:B:886:ARG:O	1:B:889:LYS:N	2.48	0.47
1:B:2199:VAL:HG22	1:B:2206:GLU:H	1.80	0.47
1:B:2726:GLN:CD	1:B:2726:GLN:N	2.71	0.47
1:D:886:ARG:O	1:D:889:LYS:N	2.48	0.47
1:D:2288:ASN:HB3	1:D:2413:TYR:CB	2.38	0.47
1:D:2345:ILE:HD12	1:D:2357:LEU:CD2	2.44	0.47
1:D:2448:ALA:O	1:D:2452:VAL:N	2.39	0.47
1:D:2639:TRP:HA	1:D:2639:TRP:HE3	1.79	0.47
1:A:100:LYS:HA	1:A:103:ASN:ND2	2.29	0.47
1:A:886:ARG:O	1:A:889:LYS:N	2.48	0.47
1:A:2201:LEU:HA	1:A:2662:TYR:OH	2.15	0.47
1:A:2345:ILE:HD12	1:A:2357:LEU:CD2	2.44	0.47
1:A:2423:ARG:HH22	1:A:2425:GLU:HG3	1.79	0.47
1:A:2559:GLU:C	1:A:2563:PHE:CD1	2.93	0.47
1:C:302:LEU:HG	1:C:367:ILE:HG22	1.95	0.47
1:C:486:GLY:C	1:C:510:MET:HE1	2.39	0.47
1:C:2384:ARG:O	1:C:2388:LEU:HD23	2.06	0.47
1:C:2715:GLN:CD	1:D:2713:SER:CB	2.79	0.47
1:B:81:ASN:N	1:B:81:ASN:HD22	2.12	0.47
1:B:162:TYR:HD2	1:B:185:ASN:HB3	1.79	0.47
1:B:2213:PRO:CD	1:B:2647:LEU:CD1	2.93	0.47
1:B:2429:ASN:CG	1:B:2432:LYS:HZ2	1.99	0.47
1:B:2566:ARG:NH1	1:B:2566:ARG:CG	2.71	0.47
1:D:508:LYS:HD2	1:D:570:ASN:HD21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:581:MET:SD	1:D:582:GLN:N	2.88	0.47
1:A:81:ASN:N	1:A:81:ASN:HD22	2.12	0.47
1:A:94:HIS:ND1	1:A:94:HIS:C	2.72	0.47
1:A:264:LEU:C	1:A:264:LEU:HD12	2.40	0.47
1:A:302:LEU:HG	1:A:367:ILE:HG22	1.95	0.47
1:A:546:HIS:HB2	1:A:547:ALA:H	1.48	0.47
1:A:582:GLN:NE2	1:A:582:GLN:C	2.73	0.47
1:A:1837:THR:O	1:A:1841:HIS:N	2.37	0.47
1:A:2441:ILE:HD12	1:A:2444:THR:HB	1.97	0.47
1:C:62:PRO:HG2	1:C:107:ASN:OD1	2.14	0.47
1:C:90:ASN:CA	1:C:93:HIS:CE1	2.80	0.47
1:C:108:ARG:NH1	1:C:108:ARG:C	2.73	0.47
1:C:554:ARG:NE	1:C:554:ARG:C	2.73	0.47
1:C:1072:TYR:O	1:C:1075:LEU:N	2.47	0.47
1:C:2273:MET:CA	1:C:2276:TRP:CD1	2.71	0.47
1:C:2423:ARG:HH22	1:C:2425:GLU:HG3	1.79	0.47
1:B:39:VAL:HB	1:B:207:ASN:HB2	1.96	0.47
1:B:443:LEU:C	1:B:443:LEU:CD2	2.84	0.47
1:B:508:LYS:HD2	1:B:570:ASN:HD21	1.79	0.47
1:B:1072:TYR:O	1:B:1073:PRO:C	2.55	0.47
1:B:2240:ILE:N	1:B:2240:ILE:CD1	2.71	0.47
1:B:2283:LEU:HD21	1:B:2360:PHE:CE1	2.50	0.47
1:B:2351:GLN:OE1	1:B:2351:GLN:HA	2.14	0.47
1:B:2441:ILE:HD12	1:B:2444:THR:HB	1.97	0.47
1:D:508:LYS:HD2	1:D:570:ASN:ND2	2.30	0.47
1:D:1317:LYS:CA	1:D:1385:CYS:CA	2.92	0.47
1:D:2201:LEU:HA	1:D:2662:TYR:OH	2.15	0.47
1:D:2405:GLY:N	1:D:2408:VAL:HG23	2.29	0.47
1:A:21:GLY:N	1:A:24:ASN:OD1	2.48	0.47
1:A:72:PHE:CE1	1:A:93:HIS:CB	2.86	0.47
1:A:77:LYS:HZ2	1:A:77:LYS:N	2.05	0.47
1:A:517:LYS:NZ	1:A:517:LYS:CA	2.73	0.47
1:A:580:PHE:CD1	1:A:580:PHE:N	2.73	0.47
1:A:2441:ILE:HD12	1:A:2441:ILE:HA	1.77	0.47
1:A:2735:LEU:HD22	1:A:2735:LEU:C	2.35	0.47
1:C:55:ASP:O	1:C:125:HIS:NE2	2.48	0.47
1:C:74:LYS:CA	1:C:74:LYS:HE2	2.44	0.47
1:C:131:TYR:HB2	1:C:152:ASP:HB3	1.95	0.47
1:C:571:GLN:CD	1:C:571:GLN:N	2.73	0.47
1:C:581:MET:SD	1:C:582:GLN:N	2.88	0.47
1:C:886:ARG:O	1:C:889:LYS:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2283:LEU:HD21	1:C:2360:PHE:CE1	2.50	0.47
1:C:2441:ILE:HD12	1:C:2444:THR:HB	1.97	0.47
1:C:2691:GLU:OE1	1:C:2691:GLU:HA	2.15	0.47
1:B:1072:TYR:O	1:B:1075:LEU:C	2.47	0.47
1:D:71:GLN:HA	1:D:74:LYS:HB2	1.96	0.47
1:D:94:HIS:ND1	1:D:94:HIS:C	2.72	0.47
1:D:108:ARG:NH1	1:D:108:ARG:C	2.73	0.47
1:D:446:ALA:HA	1:D:480:LEU:HD11	1.96	0.47
1:D:2234:ASP:N	1:D:2234:ASP:OD1	2.46	0.47
1:D:2301:ARG:HG3	1:D:2303:GLY:H	1.80	0.47
1:D:2400:LEU:HD23	1:D:2400:LEU:HA	1.69	0.47
1:D:2612:PHE:CE1	1:D:2638:MET:CE	2.97	0.47
1:A:554:ARG:NE	1:A:554:ARG:C	2.73	0.47
1:A:581:MET:SD	1:A:582:GLN:N	2.88	0.47
1:A:1317:LYS:CA	1:A:1385:CYS:CA	2.92	0.47
1:A:2196:ILE:N	1:A:2208:ILE:O	2.47	0.47
1:A:2243:PHE:CZ	1:A:2638:MET:CA	2.98	0.47
1:A:2405:GLY:N	1:A:2408:VAL:HG23	2.29	0.47
1:A:2547:GLY:C	1:B:2545:SER:HA	2.40	0.47
1:A:2680:ALA:O	1:A:2682:SER:N	2.45	0.47
1:A:2696:ARG:NH2	1:D:2696:ARG:NH2	2.63	0.47
1:C:162:TYR:HD2	1:C:185:ASN:HB3	1.79	0.47
1:C:270:GLN:HE21	1:C:271:SER:N	1.96	0.47
1:C:1634:GLU:O	1:C:1637:PHE:C	2.58	0.47
1:C:2591:ASP:OD1	1:D:2597:ARG:NH1	2.48	0.47
1:C:2663:VAL:HA	1:C:2666:MET:HB2	1.96	0.47
1:C:2707:LYS:HG2	1:D:2706:MET:HB3	1.96	0.47
1:C:2723:MET:SD	1:C:2727:ARG:HD2	2.55	0.47
1:C:2732:ARG:NH1	1:C:2732:ARG:CB	2.72	0.47
1:B:441:ARG:NH1	1:B:441:ARG:CG	2.72	0.47
1:B:2423:ARG:HH22	1:B:2425:GLU:HG3	1.79	0.47
1:B:2558:LYS:C	1:B:2560:GLU:N	2.53	0.47
1:D:55:ASP:O	1:D:125:HIS:NE2	2.48	0.47
1:D:554:ARG:NE	1:D:554:ARG:C	2.73	0.47
1:D:2039:SER:O	1:D:2043:TYR:N	2.46	0.47
1:D:2351:GLN:OE1	1:D:2351:GLN:HA	2.14	0.47
1:A:317:GLU:O	1:A:353:TYR:N	2.48	0.47
1:A:486:GLY:C	1:A:510:MET:HE1	2.39	0.47
1:A:1619:VAL:O	1:A:1621:ALA:CA	2.58	0.47
1:A:2107:GLU:O	1:A:2111:ARG:N	2.45	0.47
1:A:2203:ARG:H	1:A:2679:ARG:HH11	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2716:LEU:HD23	1:A:2716:LEU:N	2.04	0.47
1:C:504:ARG:HD3	2:C:2801:JYP:O7	2.15	0.47
1:C:2351:GLN:OE1	1:C:2351:GLN:HA	2.14	0.47
1:C:2639:TRP:HA	1:C:2639:TRP:HE3	1.79	0.47
1:B:577:GLN:O	1:B:580:PHE:HD1	1.98	0.47
1:B:1634:GLU:O	1:B:1637:PHE:C	2.58	0.47
1:B:2243:PHE:CZ	1:B:2638:MET:CA	2.98	0.47
1:B:2356:LEU:C	1:B:2356:LEU:CD1	2.85	0.47
1:D:244:HIS:HE1	1:D:246:GLU:HB2	1.79	0.47
1:D:568:ARG:N	1:D:571:GLN:NE2	2.60	0.47
1:D:1619:VAL:O	1:D:1621:ALA:CA	2.58	0.47
1:A:39:VAL:HB	1:A:207:ASN:HB2	1.96	0.47
1:A:886:ARG:O	1:A:889:LYS:CA	2.63	0.47
1:A:2361:ASN:ND2	1:A:2401:ILE:CD1	2.50	0.47
1:C:72:PHE:CE1	1:C:93:HIS:CB	2.86	0.47
1:C:80:ALA:C	1:C:81:ASN:ND2	2.73	0.47
1:C:508:LYS:HD2	1:C:570:ASN:ND2	2.29	0.47
1:C:2397:LEU:HD23	1:C:2397:LEU:HA	1.46	0.47
1:C:2453:TYR:HE1	1:C:2536:VAL:HG23	1.80	0.47
1:B:21:GLY:N	1:B:24:ASN:OD1	2.48	0.47
1:B:80:ALA:C	1:B:81:ASN:ND2	2.73	0.47
1:B:99:GLU:HG2	1:B:102:GLN:NE2	2.30	0.47
1:B:581:MET:SD	1:B:582:GLN:N	2.88	0.47
1:B:2203:ARG:H	1:B:2679:ARG:HH11	1.63	0.47
1:B:2252:ASN:HA	1:B:2255:ASN:HD21	1.79	0.47
1:B:2301:ARG:HG3	1:B:2303:GLY:H	1.80	0.47
1:D:449:ALA:O	1:D:453:LEU:N	2.30	0.47
1:D:582:GLN:NE2	1:D:582:GLN:C	2.73	0.47
1:D:2441:ILE:HD12	1:D:2444:THR:HB	1.97	0.47
1:D:2578:ILE:HG23	1:D:2579:ILE:CD1	2.45	0.47
1:A:83:THR:O	1:A:85:ASP:CB	2.60	0.46
1:A:99:GLU:HG2	1:A:102:GLN:NE2	2.30	0.46
1:C:94:HIS:C	1:C:94:HIS:ND1	2.72	0.46
1:C:1035:GLU:O	1:C:1039:GLY:N	2.49	0.46
1:C:2201:LEU:HA	1:C:2662:TYR:OH	2.15	0.46
1:C:2240:ILE:C	1:C:2242:ASP:N	2.70	0.46
1:C:2349:GLY:C	1:C:2351:GLN:H	2.12	0.46
1:B:92:LEU:H	1:B:92:LEU:HD13	1.79	0.46
1:B:264:LEU:C	1:B:264:LEU:HD12	2.40	0.46
1:B:2200:ARG:CD	1:B:2662:TYR:CG	2.92	0.46
1:D:2360:PHE:O	1:D:2364:ASN:N	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2423:ARG:HH22	1:D:2425:GLU:HG3	1.79	0.46
1:D:2556:PRO:HB2	1:D:2563:PHE:CD1	2.50	0.46
1:D:2639:TRP:HA	1:D:2639:TRP:CE3	2.50	0.46
1:A:8:PHE:CE2	1:A:176:VAL:HB	2.50	0.46
1:A:108:ARG:NH1	1:A:108:ARG:C	2.73	0.46
1:A:524:GLN:HA	1:A:527:PHE:CD2	2.45	0.46
1:A:570:ASN:C	1:A:571:GLN:CD	2.84	0.46
1:A:2283:LEU:HD21	1:A:2360:PHE:CE1	2.50	0.46
1:A:2556:PRO:HB2	1:A:2563:PHE:CD1	2.50	0.46
1:A:2726:GLN:CD	1:A:2726:GLN:N	2.71	0.46
1:C:92:LEU:CD2	1:C:92:LEU:H	1.96	0.46
1:C:2188:PHE:HD1	1:C:2191:LYS:HD3	1.81	0.46
1:C:2639:TRP:HA	1:C:2639:TRP:CE3	2.50	0.46
1:C:2726:GLN:N	1:C:2726:GLN:CD	2.71	0.46
1:B:77:LYS:HZ2	1:B:77:LYS:N	2.05	0.46
1:B:317:GLU:O	1:B:353:TYR:N	2.48	0.46
1:B:460:LEU:C	1:B:460:LEU:CD1	2.85	0.46
1:B:462:LYS:HA	1:B:462:LYS:HD3	1.64	0.46
1:B:554:ARG:NE	1:B:554:ARG:C	2.73	0.46
1:B:2216:CYS:SG	1:B:2646:VAL:CB	3.02	0.46
1:B:2571:LEU:O	1:B:2574:PHE:CB	2.56	0.46
1:B:2707:LYS:CD	1:B:2711:ASN:ND2	2.74	0.46
1:D:21:GLY:N	1:D:24:ASN:OD1	2.48	0.46
1:D:264:LEU:C	1:D:264:LEU:HD12	2.40	0.46
1:D:885:LEU:O	1:D:888:THR:CA	2.64	0.46
1:D:2203:ARG:N	1:D:2679:ARG:HH11	2.12	0.46
1:A:39:VAL:N	1:A:207:ASN:O	2.45	0.46
1:A:571:GLN:CD	1:A:571:GLN:N	2.73	0.46
1:A:2200:ARG:CD	1:A:2662:TYR:CG	2.92	0.46
1:A:2276:TRP:HB3	1:A:2367:ILE:HD12	1.96	0.46
1:C:21:GLY:N	1:C:24:ASN:OD1	2.48	0.46
1:C:886:ARG:O	1:C:889:LYS:CA	2.63	0.46
1:C:2234:ASP:OD1	1:C:2234:ASP:N	2.46	0.46
1:C:2405:GLY:N	1:C:2408:VAL:HG23	2.30	0.46
1:C:2558:LYS:HA	1:C:2558:LYS:HD3	1.77	0.46
1:B:302:LEU:HG	1:B:367:ILE:HG22	1.95	0.46
1:B:486:GLY:C	1:B:510:MET:HE1	2.39	0.46
1:B:504:ARG:HD3	2:B:2801:JYP:O7	2.15	0.46
1:B:570:ASN:C	1:B:571:GLN:CD	2.84	0.46
1:B:2240:ILE:C	1:B:2242:ASP:N	2.70	0.46
1:B:2723:MET:SD	1:B:2727:ARG:HD2	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:8:PHE:CE2	1:D:176:VAL:HB	2.50	0.46
1:D:39:VAL:HB	1:D:207:ASN:HB2	1.96	0.46
1:D:567:TYR:HB3	1:D:570:ASN:HB3	1.96	0.46
1:D:646:PRO:CA	1:D:650:GLU:H	2.29	0.46
1:A:55:ASP:O	1:A:125:HIS:NE2	2.48	0.46
1:A:80:ALA:C	1:A:81:ASN:ND2	2.73	0.46
1:A:504:ARG:HD3	2:A:2801:JYP:O7	2.15	0.46
1:A:562:HIS:ND1	1:A:562:HIS:O	2.49	0.46
1:A:751:ALA:O	1:A:755:ILE:N	2.49	0.46
1:A:2578:ILE:HG23	1:A:2579:ILE:CD1	2.45	0.46
1:A:2663:VAL:HA	1:A:2666:MET:HB2	1.96	0.46
1:A:2691:GLU:OE1	1:A:2691:GLU:HA	2.15	0.46
1:A:2732:ARG:CB	1:A:2732:ARG:NH1	2.72	0.46
1:C:39:VAL:HB	1:C:207:ASN:HB2	1.96	0.46
1:C:90:ASN:ND2	1:C:90:ASN:C	2.74	0.46
1:C:582:GLN:NE2	1:C:582:GLN:C	2.73	0.46
1:C:646:PRO:CA	1:C:650:GLU:H	2.29	0.46
1:C:2696:ARG:HH22	1:D:2696:ARG:HH22	1.63	0.46
1:C:2707:LYS:CD	1:D:2706:MET:HB3	2.45	0.46
1:B:55:ASP:O	1:B:125:HIS:NE2	2.48	0.46
1:B:508:LYS:CD	1:B:570:ASN:HD21	2.29	0.46
1:B:571:GLN:CD	1:B:571:GLN:N	2.73	0.46
1:B:1317:LYS:CA	1:B:1385:CYS:O	2.58	0.46
1:B:2422:TYR:C	1:B:2424:GLU:N	2.74	0.46
1:D:1797:CYS:O	1:D:1801:LYS:N	2.39	0.46
1:D:1836:ASN:O	1:D:1840:GLN:N	2.33	0.46
1:D:2213:PRO:CD	1:D:2647:LEU:CD1	2.93	0.46
1:D:2365:LYS:HZ3	1:D:2395:HIS:HA	1.80	0.46
1:D:2578:ILE:HD12	1:D:2578:ILE:HA	1.65	0.46
1:D:2585:ILE:HD13	1:D:2585:ILE:HA	1.53	0.46
1:A:562:HIS:ND1	1:A:562:HIS:C	2.72	0.46
1:A:577:GLN:O	1:A:580:PHE:HD1	1.98	0.46
1:A:1295:PHE:O	1:A:1299:ILE:N	2.44	0.46
1:A:1302:HIS:O	1:D:144:LYS:CB	2.64	0.46
1:A:2188:PHE:HD1	1:A:2191:LYS:HD3	1.81	0.46
1:A:2397:LEU:HD23	1:A:2397:LEU:HA	1.46	0.46
1:A:2453:TYR:HE1	1:A:2536:VAL:HG23	1.80	0.46
1:C:269:ARG:CB	2:C:2801:JYP:C2	2.72	0.46
1:C:317:GLU:O	1:C:353:TYR:N	2.48	0.46
1:C:446:ALA:HA	1:C:480:LEU:HD11	1.96	0.46
1:C:2039:SER:O	1:C:2043:TYR:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2276:TRP:HB3	1:C:2367:ILE:HD12	1.96	0.46
1:C:2556:PRO:HB2	1:C:2563:PHE:CD1	2.50	0.46
1:B:1035:GLU:O	1:B:1039:GLY:N	2.49	0.46
1:B:2288:ASN:O	1:B:2289:LEU:C	2.57	0.46
1:B:2578:ILE:HG23	1:B:2579:ILE:CD1	2.45	0.46
1:B:2624:LYS:NZ	1:B:2624:LYS:CB	2.72	0.46
1:D:453:LEU:HA	1:D:521:LYS:HZ3	1.55	0.46
1:D:571:GLN:CD	1:D:571:GLN:N	2.73	0.46
1:D:2188:PHE:HD1	1:D:2191:LYS:HD3	1.81	0.46
1:D:2283:LEU:HD21	1:D:2360:PHE:CE1	2.50	0.46
1:D:2406:LEU:C	1:D:2406:LEU:HD23	2.41	0.46
1:A:2243:PHE:HZ	1:A:2638:MET:C	2.24	0.46
1:A:2250:LEU:HD22	1:A:2250:LEU:HA	1.41	0.46
1:C:2301:ARG:HG3	1:C:2303:GLY:H	1.80	0.46
1:C:2707:LYS:HD3	1:D:2706:MET:HB3	1.97	0.46
1:B:39:VAL:N	1:B:207:ASN:O	2.45	0.46
1:B:90:ASN:C	1:B:90:ASN:ND2	2.74	0.46
1:B:751:ALA:O	1:B:755:ILE:N	2.49	0.46
1:B:2639:TRP:HA	1:B:2639:TRP:CE3	2.50	0.46
1:B:2639:TRP:HA	1:B:2639:TRP:HE3	1.79	0.46
1:B:2680:ALA:O	1:B:2682:SER:N	2.45	0.46
1:B:2691:GLU:OE1	1:B:2691:GLU:HA	2.15	0.46
1:D:504:ARG:HD3	2:D:2801:JYP:O7	2.15	0.46
1:D:1035:GLU:O	1:D:1039:GLY:N	2.48	0.46
1:D:1634:GLU:O	1:D:1637:PHE:C	2.58	0.46
1:D:2203:ARG:H	1:D:2679:ARG:HH11	1.63	0.46
1:D:2645:ILE:HA	1:D:2648:VAL:HG22	1.98	0.46
1:A:553:CYS:HA	1:A:556:CYS:SG	2.56	0.46
1:A:2352:PRO:HA	1:A:2355:PHE:CD2	2.51	0.46
1:A:2723:MET:SD	1:A:2727:ARG:HD2	2.55	0.46
1:C:8:PHE:CE2	1:C:176:VAL:HB	2.50	0.46
1:B:503:ASN:HB3	1:B:506:ARG:CB	2.46	0.46
1:B:1806:ASN:O	1:B:1810:ASP:N	2.43	0.46
1:B:2283:LEU:C	1:B:2283:LEU:CD2	2.88	0.46
1:B:2412:PHE:O	1:B:2414:SER:C	2.58	0.46
1:B:2735:LEU:HD22	1:B:2735:LEU:C	2.35	0.46
1:D:80:ALA:C	1:D:81:ASN:ND2	2.73	0.46
1:D:558:ARG:HA	1:D:561:ARG:HD3	1.98	0.46
1:D:562:HIS:ND1	1:D:562:HIS:O	2.49	0.46
1:D:2243:PHE:CZ	1:D:2638:MET:CA	2.98	0.46
1:D:2243:PHE:HZ	1:D:2638:MET:C	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2642:LEU:HD13	1:D:2642:LEU:H	1.81	0.46
1:D:2732:ARG:NH1	1:D:2732:ARG:CB	2.72	0.46
1:A:514:ASN:HD21	1:A:517:LYS:HD2	1.56	0.46
1:A:885:LEU:O	1:A:888:THR:CA	2.64	0.46
1:A:2201:LEU:HD12	1:A:2203:ARG:NH2	2.31	0.46
1:A:2642:LEU:HD13	1:A:2642:LEU:H	1.81	0.46
1:C:477:LEU:HD22	1:C:556:CYS:SG	2.56	0.46
1:C:497:VAL:CB	1:C:504:ARG:CZ	2.61	0.46
1:C:885:LEU:O	1:C:888:THR:CA	2.64	0.46
1:B:71:GLN:HA	1:B:74:LYS:HB2	1.96	0.46
1:B:886:ARG:O	1:B:889:LYS:CA	2.63	0.46
1:B:2243:PHE:HZ	1:B:2638:MET:C	2.24	0.46
1:B:2556:PRO:HB2	1:B:2563:PHE:CD1	2.50	0.46
1:B:2590:ILE:HD12	1:B:2590:ILE:HA	1.72	0.46
1:D:83:THR:O	1:D:85:ASP:CB	2.60	0.46
1:D:503:ASN:HB3	1:D:506:ARG:CB	2.46	0.46
1:D:646:PRO:CA	1:D:648:THR:H	2.26	0.46
1:A:508:LYS:HD2	1:A:570:ASN:HD21	1.79	0.46
1:A:508:LYS:CD	1:A:570:ASN:HD21	2.28	0.46
1:C:562:HIS:ND1	1:C:562:HIS:C	2.72	0.46
1:C:2295:TYR:CD1	1:B:2532:LEU:HD22	2.51	0.46
1:B:567:TYR:C	1:B:571:GLN:CD	2.84	0.46
1:B:885:LEU:O	1:B:888:THR:CA	2.64	0.46
1:D:317:GLU:O	1:D:353:TYR:N	2.48	0.46
1:D:460:LEU:C	1:D:460:LEU:CD1	2.85	0.46
1:D:522:LEU:HD22	1:D:522:LEU:HA	1.67	0.46
1:D:2285:VAL:O	1:D:2286:LEU:C	2.54	0.46
1:D:2453:TYR:HE1	1:D:2536:VAL:HG23	1.80	0.46
1:D:2651:LYS:HE2	1:D:2651:LYS:HB2	1.70	0.46
1:D:2707:LYS:CD	1:D:2711:ASN:ND2	2.74	0.46
1:D:2723:MET:SD	1:D:2727:ARG:HD2	2.55	0.46
1:A:503:ASN:ND2	1:A:505:GLU:HB2	2.31	0.46
1:A:1035:GLU:O	1:A:1039:GLY:N	2.49	0.46
1:A:2422:TYR:C	1:A:2424:GLU:N	2.74	0.46
1:C:270:GLN:C	1:C:270:GLN:CD	2.84	0.46
1:C:503:ASN:ND2	1:C:505:GLU:HB2	2.31	0.46
1:C:508:LYS:CD	1:C:570:ASN:HD21	2.28	0.46
1:C:567:TYR:C	1:C:571:GLN:CD	2.84	0.46
1:C:2203:ARG:H	1:C:2679:ARG:HH11	1.63	0.46
1:C:2583:ASN:ND2	1:D:2586:PHE:CD1	2.83	0.46
1:B:8:PHE:CE2	1:B:176:VAL:HB	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1295:PHE:O	1:B:1299:ILE:N	2.44	0.46
1:B:1808:VAL:O	1:B:1812:ILE:N	2.40	0.46
1:D:90:ASN:C	1:D:90:ASN:ND2	2.74	0.46
1:D:2453:TYR:O	1:D:2456:SER:OG	2.26	0.46
1:A:71:GLN:HA	1:A:74:LYS:HB2	1.96	0.45
1:A:477:LEU:HD22	1:A:556:CYS:SG	2.56	0.45
1:A:1072:TYR:O	1:A:1073:PRO:C	2.55	0.45
1:A:2528:CYS:HA	1:D:2558:LYS:HE3	1.98	0.45
1:A:2586:PHE:CG	1:D:2583:ASN:ND2	2.83	0.45
1:A:2612:PHE:CG	1:A:2638:MET:SD	3.09	0.45
1:C:2243:PHE:HZ	1:C:2638:MET:C	2.24	0.45
1:C:2422:TYR:C	1:C:2424:GLU:N	2.74	0.45
1:C:2578:ILE:HG23	1:C:2579:ILE:CD1	2.45	0.45
1:C:2710:THR:HB	1:B:2707:LYS:HZ1	0.63	0.45
1:B:477:LEU:HD22	1:B:556:CYS:SG	2.56	0.45
1:B:516:LEU:H	1:B:516:LEU:CD1	2.14	0.45
1:B:553:CYS:HA	1:B:556:CYS:SG	2.56	0.45
1:B:582:GLN:NE2	1:B:582:GLN:C	2.73	0.45
1:B:1097:PHE:C	1:B:1099:GLN:N	2.61	0.45
1:B:2571:LEU:C	1:B:2571:LEU:CD2	2.89	0.45
1:B:2612:PHE:CG	1:B:2638:MET:SD	3.09	0.45
1:B:2645:ILE:HA	1:B:2648:VAL:HG22	1.98	0.45
1:D:88:LEU:CD1	1:D:88:LEU:N	2.72	0.45
1:D:91:LYS:HA	1:D:94:HIS:HD2	1.81	0.45
1:D:477:LEU:HD22	1:D:556:CYS:SG	2.56	0.45
1:D:886:ARG:O	1:D:889:LYS:CA	2.63	0.45
1:D:2571:LEU:O	1:D:2574:PHE:CB	2.56	0.45
1:D:2620:LYS:O	1:D:2624:LYS:HG2	2.17	0.45
1:A:127:LYS:O	1:A:441:ARG:CG	2.65	0.45
1:A:646:PRO:CA	1:A:650:GLU:H	2.29	0.45
1:A:2706:MET:CA	1:D:2707:LYS:HE2	2.45	0.45
1:A:2736:LEU:C	1:A:2736:LEU:CD2	2.89	0.45
1:C:503:ASN:HB3	1:C:506:ARG:CB	2.46	0.45
1:C:2251:PHE:CD1	1:C:2251:PHE:O	2.70	0.45
1:C:2530:THR:HG23	1:C:2534:CYS:HB3	1.98	0.45
1:B:562:HIS:ND1	1:B:562:HIS:O	2.49	0.45
1:B:2251:PHE:CD1	1:B:2251:PHE:O	2.70	0.45
1:B:2352:PRO:HA	1:B:2355:PHE:CD2	2.51	0.45
1:D:127:LYS:O	1:D:441:ARG:CG	2.65	0.45
1:D:518:GLN:C	1:D:518:GLN:CD	2.84	0.45
1:D:2240:ILE:C	1:D:2242:ASP:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2352:PRO:HA	1:D:2355:PHE:CD2	2.51	0.45
1:D:2422:TYR:C	1:D:2424:GLU:N	2.74	0.45
1:A:108:ARG:NH2	1:A:111:LEU:HD12	2.32	0.45
1:A:503:ASN:HB3	1:A:506:ARG:CB	2.46	0.45
1:A:510:MET:O	1:A:515:ILE:HG22	2.08	0.45
1:A:558:ARG:HA	1:A:561:ARG:HD3	1.98	0.45
1:C:751:ALA:O	1:C:755:ILE:N	2.49	0.45
1:C:2243:PHE:CZ	1:C:2638:MET:CA	2.98	0.45
1:C:2428:LEU:C	1:C:2428:LEU:CD1	2.85	0.45
1:B:318:VAL:HA	1:B:353:TYR:HB2	1.98	0.45
1:B:2196:ILE:N	1:B:2208:ILE:O	2.47	0.45
1:B:2388:LEU:CD2	1:B:2388:LEU:N	2.73	0.45
1:B:2736:LEU:C	1:B:2736:LEU:CD2	2.89	0.45
1:D:39:VAL:N	1:D:207:ASN:O	2.45	0.45
1:D:99:GLU:HG2	1:D:102:GLN:NE2	2.30	0.45
1:D:503:ASN:ND2	1:D:505:GLU:HB2	2.31	0.45
1:D:508:LYS:CD	1:D:570:ASN:HD21	2.29	0.45
1:D:751:ALA:O	1:D:755:ILE:N	2.49	0.45
1:D:2345:ILE:CD1	1:D:2356:LEU:CG	2.80	0.45
1:D:2365:LYS:HE2	1:D:2398:TYR:CB	2.37	0.45
1:D:2409:HIS:HD1	1:D:2409:HIS:C	2.24	0.45
1:D:2612:PHE:CG	1:D:2638:MET:SD	3.09	0.45
1:D:2723:MET:SD	1:D:2727:ARG:NH1	2.85	0.45
1:A:441:ARG:NH1	1:A:441:ARG:CG	2.72	0.45
1:A:608:LYS:C	1:A:610:ILE:N	2.72	0.45
1:A:771:GLU:O	1:A:772:ASN:C	2.50	0.45
1:C:91:LYS:HA	1:C:94:HIS:HD2	1.81	0.45
1:C:518:GLN:C	1:C:518:GLN:CD	2.84	0.45
1:C:553:CYS:HA	1:C:556:CYS:SG	2.56	0.45
1:C:562:HIS:ND1	1:C:562:HIS:O	2.49	0.45
1:C:2283:LEU:C	1:C:2283:LEU:CD2	2.88	0.45
1:C:2401:ILE:HG21	1:C:2416:LEU:HD13	0.59	0.45
1:B:524:GLN:HA	1:B:527:PHE:CD2	2.45	0.45
1:B:2039:SER:O	1:B:2043:TYR:N	2.46	0.45
1:B:2188:PHE:HD1	1:B:2191:LYS:HD3	1.81	0.45
1:B:2453:TYR:HE1	1:B:2536:VAL:HG23	1.80	0.45
1:D:256:HIS:HB3	1:D:261:HIS:HD2	1.81	0.45
1:D:273:THR:OG1	1:D:274:SER:N	2.49	0.45
1:D:2196:ILE:N	1:D:2208:ILE:O	2.47	0.45
1:D:2210:PHE:HE2	1:D:2647:LEU:CG	2.29	0.45
1:A:72:PHE:CE1	1:A:93:HIS:CD2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:ASN:ND2	1:A:90:ASN:C	2.74	0.45
1:A:1072:TYR:O	1:A:1075:LEU:C	2.47	0.45
1:A:1317:LYS:CA	1:A:1385:CYS:O	2.59	0.45
1:A:2706:MET:HB3	1:D:2707:LYS:CG	2.46	0.45
1:C:273:THR:OG1	1:C:274:SER:N	2.49	0.45
1:C:609:HIS:C	1:C:611:THR:H	2.25	0.45
1:C:885:LEU:O	1:C:888:THR:C	2.55	0.45
1:C:1209:GLY:C	1:C:1259:ILE:CA	2.90	0.45
1:C:2203:ARG:HE	1:C:2203:ARG:HB2	1.71	0.45
1:B:108:ARG:NH2	1:B:111:LEU:HD12	2.32	0.45
1:D:577:GLN:O	1:D:580:PHE:HD1	1.98	0.45
1:D:582:GLN:C	1:D:582:GLN:CD	2.85	0.45
1:D:638:CYS:O	1:D:642:ASN:N	2.50	0.45
1:A:1209:GLY:C	1:A:1259:ILE:CA	2.90	0.45
1:A:2240:ILE:C	1:A:2242:ASP:N	2.70	0.45
1:A:2620:LYS:O	1:A:2624:LYS:HG2	2.17	0.45
1:A:2639:TRP:HA	1:A:2639:TRP:CE3	2.50	0.45
1:C:72:PHE:CE1	1:C:93:HIS:CD2	3.05	0.45
1:C:570:ASN:C	1:C:571:GLN:CD	2.84	0.45
1:C:2288:ASN:C	1:C:2290:LEU:N	2.73	0.45
1:C:2441:ILE:HD12	1:C:2441:ILE:HA	1.77	0.45
1:B:72:PHE:CE1	1:B:93:HIS:CD2	3.05	0.45
1:B:2210:PHE:HE2	1:B:2647:LEU:CG	2.29	0.45
1:B:2276:TRP:HB3	1:B:2367:ILE:HD12	1.96	0.45
1:B:2279:ILE:HD13	1:B:2279:ILE:HA	1.71	0.45
1:B:2406:LEU:C	1:B:2406:LEU:HD23	2.41	0.45
1:D:97:ASP:HA	1:D:100:LYS:HG2	1.99	0.45
1:D:562:HIS:ND1	1:D:562:HIS:C	2.72	0.45
1:D:2251:PHE:CD1	1:D:2251:PHE:O	2.70	0.45
1:D:2288:ASN:O	1:D:2289:LEU:C	2.57	0.45
1:D:2588:VAL:O	1:D:2592:THR:OG1	2.29	0.45
1:D:2691:GLU:OE1	1:D:2691:GLU:HA	2.15	0.45
1:A:2245:LEU:H	1:A:2245:LEU:HG	1.57	0.45
1:A:2251:PHE:CD1	1:A:2251:PHE:O	2.70	0.45
1:A:2398:TYR:O	1:A:2398:TYR:CD1	2.70	0.45
1:A:2651:LYS:HZ2	1:A:2655:GLU:HB2	1.81	0.45
1:A:2729:GLN:O	1:A:2730:LYS:C	2.60	0.45
1:C:2558:LYS:C	1:C:2560:GLU:N	2.53	0.45
1:C:2696:ARG:NH1	1:B:2696:ARG:HE	2.09	0.45
1:C:2706:MET:HB3	1:B:2707:LYS:CD	2.45	0.45
1:B:11:ILE:HD12	1:B:62:PRO:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:ASP:HA	1:B:100:LYS:HG2	1.98	0.45
1:B:237:GLY:O	1:B:238:ASP:C	2.60	0.45
1:B:523:LEU:C	1:B:523:LEU:CD2	2.85	0.45
1:B:2409:HIS:C	1:B:2409:HIS:HD1	2.24	0.45
1:B:2448:ALA:O	1:B:2452:VAL:N	2.39	0.45
1:D:553:CYS:HA	1:D:556:CYS:SG	2.56	0.45
1:A:518:GLN:C	1:A:518:GLN:CD	2.84	0.45
1:A:1634:GLU:O	1:A:1637:PHE:C	2.58	0.45
1:A:1792:LEU:O	1:A:1797:CYS:N	2.44	0.45
1:A:2210:PHE:HE2	1:A:2647:LEU:CG	2.29	0.45
1:A:2406:LEU:C	1:A:2406:LEU:HD23	2.41	0.45
1:A:2409:HIS:HD1	1:A:2409:HIS:C	2.24	0.45
1:A:2558:LYS:HA	1:A:2558:LYS:HD3	1.77	0.45
1:A:2621:PHE:HA	1:A:2624:LYS:CG	2.47	0.45
1:A:2639:TRP:CE3	1:A:2639:TRP:O	2.70	0.45
1:A:2653:SER:OG	1:A:2664:ALA:HB2	2.16	0.45
1:A:2723:MET:SD	1:A:2727:ARG:NH1	2.85	0.45
1:C:2612:PHE:CG	1:C:2638:MET:SD	3.09	0.45
1:C:2620:LYS:O	1:C:2624:LYS:HG2	2.17	0.45
1:C:2736:LEU:C	1:C:2736:LEU:CD2	2.89	0.45
1:B:518:GLN:CD	1:B:518:GLN:C	2.84	0.45
1:B:2530:THR:HG23	1:B:2534:CYS:HB3	1.98	0.45
1:D:523:LEU:C	1:D:523:LEU:CD2	2.85	0.45
1:D:570:ASN:C	1:D:571:GLN:CD	2.84	0.45
1:D:1209:GLY:C	1:D:1259:ILE:CA	2.90	0.45
1:D:2271:ARG:HH12	1:D:2272:ASN:ND2	1.89	0.45
1:D:2285:VAL:O	1:D:2287:MET:CA	2.64	0.45
1:D:2530:THR:HG23	1:D:2534:CYS:HB3	1.98	0.45
1:D:2736:LEU:C	1:D:2736:LEU:CD2	2.89	0.45
1:A:582:GLN:C	1:A:582:GLN:CD	2.85	0.45
1:A:583:LYS:C	1:A:583:LYS:CD	2.86	0.45
1:A:638:CYS:O	1:A:642:ASN:N	2.50	0.45
1:A:2062:GLY:C	1:A:2064:ASP:N	2.54	0.45
1:A:2288:ASN:O	1:A:2289:LEU:C	2.57	0.45
1:A:2365:LYS:HE3	1:A:2395:HIS:O	2.16	0.45
1:A:2729:GLN:O	1:A:2732:ARG:N	2.50	0.45
1:C:99:GLU:HG2	1:C:102:GLN:NE2	2.30	0.45
1:C:108:ARG:NH2	1:C:111:LEU:HD12	2.32	0.45
1:C:318:VAL:HA	1:C:353:TYR:HB2	1.98	0.45
1:C:567:TYR:HB3	1:C:570:ASN:HB3	1.96	0.45
1:C:577:GLN:O	1:C:580:PHE:HD1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2210:PHE:HE2	1:C:2647:LEU:CG	2.29	0.45
1:C:2278:SER:HB2	1:C:2281:PHE:HZ	1.60	0.45
1:C:2365:LYS:HD2	1:C:2368:PHE:HB3	1.99	0.45
1:C:2398:TYR:O	1:C:2398:TYR:CD1	2.70	0.45
1:C:2406:LEU:C	1:C:2406:LEU:HD23	2.41	0.45
1:C:2639:TRP:CE3	1:C:2639:TRP:O	2.70	0.45
1:C:2696:ARG:HH22	1:B:2696:ARG:NH2	2.14	0.45
1:B:64:ASN:CG	1:B:107:ASN:HD21	2.25	0.45
1:B:558:ARG:HA	1:B:561:ARG:HD3	1.98	0.45
1:B:886:ARG:C	1:B:889:LYS:N	2.75	0.45
1:B:2361:ASN:ND2	1:B:2401:ILE:CD1	2.50	0.45
1:B:2398:TYR:CD1	1:B:2398:TYR:O	2.70	0.45
1:B:2441:ILE:O	1:B:2444:THR:HG22	2.17	0.45
1:D:2285:VAL:CG2	1:D:2417:LEU:CD1	2.61	0.45
1:D:2348:VAL:CB	1:D:2353:THR:HG22	2.31	0.45
1:D:2571:LEU:C	1:D:2571:LEU:CD2	2.89	0.45
1:A:270:GLN:C	1:A:270:GLN:CD	2.84	0.45
1:A:2213:PRO:CD	1:A:2647:LEU:CD1	2.93	0.45
1:A:2651:LYS:HE2	1:A:2652:ASP:N	2.32	0.45
1:C:143:GLU:OE2	1:C:145:ASN:ND2	2.37	0.45
1:C:886:ARG:C	1:C:889:LYS:N	2.75	0.45
1:C:2197:GLU:HA	1:C:2207:GLN:HA	1.99	0.45
1:C:2345:ILE:HD12	1:C:2357:LEU:HD23	1.99	0.45
1:B:77:LYS:HB2	1:B:78:PRO:CD	2.47	0.45
1:B:256:HIS:HB3	1:B:261:HIS:HD2	1.82	0.45
1:B:578:PHE:CD1	1:B:578:PHE:O	2.70	0.45
1:B:608:LYS:C	1:B:610:ILE:N	2.72	0.45
1:B:646:PRO:CA	1:B:650:GLU:H	2.29	0.45
1:B:2621:PHE:HA	1:B:2624:LYS:CG	2.47	0.45
1:D:520:PHE:CE1	1:D:523:LEU:HD11	2.45	0.45
1:D:2653:SER:OG	1:D:2664:ALA:HB2	2.16	0.45
1:A:11:ILE:HD12	1:A:62:PRO:HG3	1.99	0.44
1:A:144:LYS:CB	1:B:1302:HIS:C	2.90	0.44
1:A:609:HIS:C	1:A:611:THR:H	2.25	0.44
1:A:886:ARG:C	1:A:889:LYS:N	2.75	0.44
1:A:2412:PHE:O	1:A:2414:SER:C	2.58	0.44
1:A:2530:THR:HG23	1:A:2534:CYS:HB3	1.98	0.44
1:A:2645:ILE:HA	1:A:2648:VAL:HG22	1.98	0.44
1:C:256:HIS:HB3	1:C:261:HIS:HD2	1.81	0.44
1:C:578:PHE:CD1	1:C:578:PHE:O	2.70	0.44
1:C:2201:LEU:HB3	1:C:2202:ASP:H	1.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2285:VAL:O	1:C:2287:MET:CA	2.64	0.44
1:C:2288:ASN:O	1:C:2289:LEU:C	2.57	0.44
1:C:2409:HIS:C	1:C:2409:HIS:HD1	2.24	0.44
1:B:379:ASP:OD2	1:B:379:ASP:N	2.50	0.44
1:B:2188:PHE:HA	1:B:2191:LYS:HD3	1.99	0.44
1:B:2201:LEU:HA	1:B:2201:LEU:HD22	1.34	0.44
1:B:2239:LYS:HZ2	1:B:2677:ARG:HA	1.81	0.44
1:B:2729:GLN:O	1:B:2732:ARG:N	2.50	0.44
1:D:77:LYS:HB2	1:D:78:PRO:CD	2.47	0.44
1:D:886:ARG:C	1:D:889:LYS:N	2.75	0.44
1:D:1245:CYS:O	1:D:1246:ALA:C	2.48	0.44
1:D:2239:LYS:CG	1:D:2240:ILE:N	2.54	0.44
1:A:578:PHE:CD1	1:A:578:PHE:O	2.70	0.44
1:A:584:GLN:HE21	1:A:585:ILE:HG22	1.82	0.44
1:A:2216:CYS:SG	1:A:2646:VAL:CB	3.02	0.44
1:A:2288:ASN:C	1:A:2290:LEU:N	2.72	0.44
1:C:2196:ILE:N	1:C:2208:ILE:O	2.47	0.44
1:C:2365:LYS:HE3	1:C:2395:HIS:O	2.16	0.44
1:B:503:ASN:ND2	1:B:505:GLU:HB2	2.31	0.44
1:B:2345:ILE:CD1	1:B:2357:LEU:CD2	2.95	0.44
1:D:72:PHE:CE1	1:D:93:HIS:CD2	3.05	0.44
1:D:578:PHE:CD1	1:D:578:PHE:O	2.70	0.44
1:D:2197:GLU:HA	1:D:2207:GLN:HA	1.99	0.44
1:D:2729:GLN:O	1:D:2732:ARG:N	2.50	0.44
1:A:92:LEU:H	1:A:92:LEU:HD13	1.79	0.44
1:A:300:ASN:ND2	1:D:2730:LYS:HG2	2.27	0.44
1:A:318:VAL:HA	1:A:353:TYR:HB2	1.98	0.44
1:A:567:TYR:C	1:A:571:GLN:CD	2.84	0.44
1:A:2285:VAL:CG1	1:A:2286:LEU:H	2.24	0.44
1:A:2571:LEU:C	1:A:2571:LEU:CD2	2.89	0.44
1:C:64:ASN:CG	1:C:107:ASN:HD21	2.25	0.44
1:C:1806:ASN:O	1:C:1810:ASP:N	2.43	0.44
1:C:2201:LEU:HD12	1:C:2203:ARG:NH2	2.31	0.44
1:C:2352:PRO:HA	1:C:2355:PHE:CD2	2.51	0.44
1:C:2375:ASN:ND2	1:C:2375:ASN:N	2.65	0.44
1:C:2448:ALA:O	1:C:2452:VAL:N	2.39	0.44
1:C:2645:ILE:HA	1:C:2648:VAL:HG22	1.98	0.44
1:B:2620:LYS:O	1:B:2624:LYS:HG2	2.16	0.44
1:D:507:GLN:CG	1:D:567:TYR:CE1	2.76	0.44
1:D:2398:TYR:CD1	1:D:2398:TYR:O	2.70	0.44
1:A:273:THR:OG1	1:A:274:SER:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:460:LEU:C	1:A:460:LEU:CD1	2.85	0.44
1:A:574:ILE:HA	1:A:577:GLN:CD	2.33	0.44
1:C:74:LYS:CE	1:C:74:LYS:CA	2.85	0.44
1:C:92:LEU:H	1:C:92:LEU:HD13	1.79	0.44
1:C:520:PHE:CE1	1:C:523:LEU:HD11	2.45	0.44
1:C:608:LYS:C	1:C:610:ILE:N	2.72	0.44
1:C:2412:PHE:O	1:C:2414:SER:C	2.58	0.44
1:C:2642:LEU:HD13	1:C:2642:LEU:H	1.81	0.44
1:B:638:CYS:O	1:B:642:ASN:N	2.50	0.44
1:B:2201:LEU:HA	1:B:2662:TYR:OH	2.15	0.44
1:B:2354:LEU:C	1:B:2354:LEU:CD1	2.85	0.44
1:B:2409:HIS:C	1:B:2409:HIS:ND1	2.76	0.44
1:B:2639:TRP:CE3	1:B:2639:TRP:O	2.70	0.44
1:B:2653:SER:OG	1:B:2664:ALA:HB2	2.16	0.44
1:D:581:MET:SD	1:D:581:MET:C	3.00	0.44
1:D:2572:LEU:HD23	1:D:2572:LEU:HA	1.73	0.44
1:D:2654:THR:C	1:D:2657:THR:HG22	2.27	0.44
1:A:2345:ILE:CD1	1:A:2357:LEU:CD2	2.95	0.44
1:A:2559:GLU:OE2	1:A:2562:LEU:CG	2.47	0.44
1:C:2441:ILE:O	1:C:2444:THR:HG22	2.17	0.44
1:C:2729:GLN:O	1:C:2732:ARG:N	2.50	0.44
1:B:584:GLN:HE21	1:B:585:ILE:HG22	1.82	0.44
1:B:1086:HIS:C	1:B:1088:SER:N	2.74	0.44
1:B:2285:VAL:O	1:B:2287:MET:CA	2.64	0.44
1:B:2360:PHE:O	1:B:2364:ASN:N	2.38	0.44
1:B:2365:LYS:HD2	1:B:2368:PHE:HB3	1.99	0.44
1:B:2729:GLN:O	1:B:2730:LYS:C	2.60	0.44
1:B:2738:HIS:O	1:B:2739:PRO:C	2.48	0.44
1:D:516:LEU:H	1:D:516:LEU:CD1	2.14	0.44
1:D:567:TYR:C	1:D:571:GLN:CD	2.84	0.44
1:D:574:ILE:HA	1:D:577:GLN:CD	2.33	0.44
1:D:2651:LYS:HE2	1:D:2652:ASP:N	2.32	0.44
1:A:638:CYS:O	1:A:639:VAL:O	2.36	0.44
1:A:1995:THR:O	1:A:1998:ASN:C	2.61	0.44
1:A:2409:HIS:C	1:A:2409:HIS:ND1	2.76	0.44
1:A:2585:ILE:HA	1:A:2585:ILE:HD13	1.53	0.44
1:C:127:LYS:O	1:C:441:ARG:CG	2.65	0.44
1:C:450:SER:N	1:C:453:LEU:HG	2.24	0.44
1:C:2621:PHE:HA	1:C:2624:LYS:CG	2.47	0.44
1:B:581:MET:SD	1:B:581:MET:C	3.00	0.44
1:B:2258:LYS:HA	1:B:2258:LYS:HD2	1.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:77:LYS:HZ2	1:D:77:LYS:N	2.05	0.44
1:D:237:GLY:O	1:D:238:ASP:C	2.60	0.44
1:D:460:LEU:HD22	1:D:460:LEU:HA	1.62	0.44
1:D:609:HIS:C	1:D:611:THR:H	2.25	0.44
1:D:2345:ILE:CD1	1:D:2357:LEU:CD2	2.95	0.44
1:D:2345:ILE:HD12	1:D:2357:LEU:HD23	1.99	0.44
1:D:2639:TRP:CE3	1:D:2639:TRP:O	2.70	0.44
1:D:2729:GLN:O	1:D:2730:LYS:C	2.60	0.44
1:A:91:LYS:HA	1:A:94:HIS:HD2	1.81	0.44
1:A:462:LYS:HD3	1:A:462:LYS:HA	1.64	0.44
1:A:1808:VAL:O	1:A:1812:ILE:N	2.40	0.44
1:A:2365:LYS:HZ1	1:A:2368:PHE:HD2	1.55	0.44
1:A:2441:ILE:O	1:A:2444:THR:HG22	2.17	0.44
1:A:2707:LYS:CD	1:A:2711:ASN:ND2	2.74	0.44
1:C:441:ARG:NH1	1:C:441:ARG:CB	2.81	0.44
1:C:510:MET:O	1:C:515:ILE:HG22	2.08	0.44
1:C:574:ILE:HG13	1:C:575:ALA:N	2.33	0.44
1:C:1086:HIS:C	1:C:1088:SER:N	2.74	0.44
1:C:2345:ILE:CD1	1:C:2356:LEU:CG	2.80	0.44
1:B:562:HIS:ND1	1:B:562:HIS:C	2.72	0.44
1:B:2345:ILE:HD12	1:B:2357:LEU:HD23	1.99	0.44
1:B:2380:THR:O	1:B:2381:ARG:C	2.61	0.44
1:B:2642:LEU:HD13	1:B:2642:LEU:H	1.81	0.44
1:D:2188:PHE:HA	1:D:2191:LYS:HD3	1.99	0.44
1:D:2365:LYS:HD2	1:D:2368:PHE:HB3	1.99	0.44
1:A:256:HIS:HB3	1:A:261:HIS:HD2	1.81	0.44
1:A:1806:ASN:O	1:A:1810:ASP:N	2.43	0.44
1:A:2197:GLU:HA	1:A:2207:GLN:HA	1.99	0.44
1:A:2285:VAL:O	1:A:2287:MET:CA	2.64	0.44
1:C:11:ILE:HD12	1:C:62:PRO:HG3	1.99	0.44
1:C:13:ASP:HB2	1:C:60:LEU:HD23	2.00	0.44
1:C:97:ASP:HA	1:C:100:LYS:HG2	1.99	0.44
1:C:558:ARG:HA	1:C:561:ARG:HD3	1.98	0.44
1:C:581:MET:SD	1:C:581:MET:C	3.00	0.44
1:C:2188:PHE:HA	1:C:2191:LYS:HD3	1.99	0.44
1:C:2222:GLU:H	1:C:2222:GLU:HG3	1.59	0.44
1:C:2250:LEU:HA	1:C:2250:LEU:HD22	1.41	0.44
1:C:2729:GLN:O	1:C:2730:LYS:C	2.60	0.44
1:B:45:ASP:HB2	1:B:48:ASN:H	1.83	0.44
1:B:72:PHE:CE1	1:B:93:HIS:CB	2.86	0.44
1:B:270:GLN:C	1:B:270:GLN:CD	2.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:609:HIS:C	1:B:611:THR:H	2.25	0.44
1:B:2288:ASN:C	1:B:2290:LEU:N	2.73	0.44
1:B:2695:LEU:C	1:B:2697:ASN:H	2.25	0.44
1:B:2727:ARG:NE	1:B:2727:ARG:CA	2.73	0.44
1:B:2728:LYS:O	1:B:2731:GLN:HB2	2.18	0.44
1:D:45:ASP:HB2	1:D:48:ASN:HB2	1.99	0.44
1:D:574:ILE:HG13	1:D:575:ALA:N	2.33	0.44
1:D:2278:SER:HB2	1:D:2281:PHE:HZ	1.60	0.44
1:D:2288:ASN:C	1:D:2290:LEU:N	2.73	0.44
1:A:64:ASN:CG	1:A:107:ASN:HD21	2.25	0.44
1:A:237:GLY:O	1:A:238:ASP:C	2.60	0.44
1:A:2219:LEU:CD2	1:A:2254:MET:CE	2.77	0.44
1:A:2280:SER:OG	1:A:2281:PHE:N	2.51	0.44
1:A:2365:LYS:HE2	1:A:2398:TYR:CB	2.37	0.44
1:A:2584:LEU:HD23	1:A:2584:LEU:HA	1.68	0.44
1:A:2735:LEU:C	1:A:2735:LEU:CD1	2.86	0.44
1:C:45:ASP:HB2	1:C:48:ASN:HB2	1.99	0.44
1:C:265:ARG:NE	1:C:265:ARG:CA	2.70	0.44
1:C:269:ARG:HD3	1:C:272:ALA:CB	2.48	0.44
1:C:355:LEU:HD22	1:C:418:ILE:HB	2.00	0.44
1:C:1842:SER:O	1:C:1846:ARG:N	2.41	0.44
1:C:2345:ILE:CD1	1:C:2357:LEU:CD2	2.95	0.44
1:C:2695:LEU:C	1:C:2697:ASN:H	2.25	0.44
1:B:84:THR:HB	1:B:85:ASP:H	1.66	0.44
1:B:91:LYS:HA	1:B:94:HIS:HD2	1.81	0.44
1:B:273:THR:OG1	1:B:274:SER:N	2.49	0.44
1:B:2578:ILE:HG23	1:B:2579:ILE:CG1	2.48	0.44
1:B:2651:LYS:HE2	1:B:2652:ASP:N	2.32	0.44
1:D:194:HIS:N	1:D:210:ASN:O	2.36	0.44
1:D:1172:ASN:O	1:D:1176:VAL:N	2.51	0.44
1:D:1791:SER:O	1:D:1795:VAL:N	2.37	0.44
1:D:2250:LEU:C	1:D:2250:LEU:CD1	2.91	0.44
1:D:2280:SER:OG	1:D:2281:PHE:N	2.51	0.44
1:A:97:ASP:HA	1:A:100:LYS:HG2	1.99	0.43
1:A:564:GLN:CA	1:A:574:ILE:HD12	2.47	0.43
1:A:581:MET:SD	1:A:581:MET:C	3.00	0.43
1:A:1116:LYS:C	1:A:1118:ASP:N	2.76	0.43
1:A:2428:LEU:C	1:A:2428:LEU:CD1	2.85	0.43
1:A:2707:LYS:CD	1:A:2711:ASN:HD21	2.19	0.43
1:C:638:CYS:O	1:C:642:ASN:N	2.50	0.43
1:C:2632:ILE:H	1:C:2632:ILE:HG13	1.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2651:LYS:HE2	1:C:2652:ASP:N	2.32	0.43
1:C:2653:SER:OG	1:C:2664:ALA:HB2	2.16	0.43
1:C:2680:ALA:C	1:C:2682:SER:H	2.25	0.43
1:B:45:ASP:HB2	1:B:48:ASN:HB2	1.99	0.43
1:B:1172:ASN:O	1:B:1176:VAL:N	2.51	0.43
1:B:2680:ALA:C	1:B:2682:SER:H	2.25	0.43
1:D:64:ASN:CG	1:D:107:ASN:HD21	2.25	0.43
1:D:108:ARG:NH2	1:D:111:LEU:HD12	2.32	0.43
1:D:318:VAL:HA	1:D:353:TYR:HB2	1.98	0.43
1:D:355:LEU:HD22	1:D:418:ILE:HB	2.00	0.43
1:D:1871:ILE:O	1:D:1875:VAL:N	2.47	0.43
1:D:2441:ILE:O	1:D:2444:THR:HG22	2.17	0.43
1:D:2621:PHE:HA	1:D:2624:LYS:CG	2.47	0.43
1:A:2188:PHE:HA	1:A:2191:LYS:HD3	1.99	0.43
1:A:2290:LEU:C	1:A:2290:LEU:CD1	2.91	0.43
1:A:2699:GLN:HB3	1:B:2699:GLN:OE1	2.05	0.43
1:A:2728:LYS:O	1:A:2731:GLN:HB2	2.18	0.43
1:C:584:GLN:HE21	1:C:585:ILE:HG22	1.82	0.43
1:C:2250:LEU:C	1:C:2250:LEU:CD1	2.91	0.43
1:C:2366:ILE:HD13	1:C:2366:ILE:HA	1.57	0.43
1:B:2103:ARG:O	1:B:2105:ASP:N	2.39	0.43
1:B:2199:VAL:HG21	1:B:2680:ALA:HB2	2.00	0.43
1:B:2558:LYS:HA	1:B:2558:LYS:HD3	1.77	0.43
1:D:2651:LYS:HZ2	1:D:2655:GLU:HB2	1.83	0.43
1:D:2728:LYS:O	1:D:2731:GLN:HB2	2.18	0.43
1:A:460:LEU:HA	1:A:460:LEU:HD22	1.62	0.43
1:A:2278:SER:HB2	1:A:2281:PHE:HZ	1.60	0.43
1:A:2578:ILE:HG23	1:A:2579:ILE:CG1	2.48	0.43
1:C:582:GLN:C	1:C:582:GLN:CD	2.85	0.43
1:C:2258:LYS:HD2	1:C:2261:ARG:HG3	2.01	0.43
1:C:2280:SER:OG	1:C:2281:PHE:N	2.51	0.43
1:C:2728:LYS:O	1:C:2731:GLN:HB2	2.18	0.43
1:B:475:LYS:HA	1:B:552:ILE:HD13	2.00	0.43
1:B:1292:VAL:O	1:B:1296:VAL:N	2.51	0.43
1:B:1432:VAL:O	1:B:1433:ASP:C	2.60	0.43
1:B:2258:LYS:HD2	1:B:2261:ARG:HG3	2.01	0.43
1:B:2651:LYS:HZ2	1:B:2655:GLU:HB2	1.83	0.43
1:B:2735:LEU:C	1:B:2735:LEU:CD1	2.86	0.43
1:D:2370:MET:CE	1:D:2370:MET:CA	2.85	0.43
1:D:2380:THR:O	1:D:2381:ARG:C	2.61	0.43
1:D:2412:PHE:HD1	1:D:2415:LEU:CD1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:LYS:HA	1:A:552:ILE:HD13	2.00	0.43
1:A:2380:THR:O	1:A:2381:ARG:C	2.61	0.43
1:C:237:GLY:O	1:C:238:ASP:C	2.60	0.43
1:C:523:LEU:HD22	1:C:527:PHE:HB3	2.01	0.43
1:B:15:CYS:HA	1:B:223:PHE:H	1.84	0.43
1:B:355:LEU:HD22	1:B:418:ILE:HB	2.00	0.43
1:B:1085:ARG:O	1:B:1088:SER:N	2.47	0.43
1:B:2280:SER:OG	1:B:2281:PHE:N	2.51	0.43
1:B:2428:LEU:C	1:B:2428:LEU:CD1	2.86	0.43
1:D:13:ASP:HB2	1:D:60:LEU:HD23	2.00	0.43
1:D:524:GLN:HA	1:D:527:PHE:CD2	2.45	0.43
1:D:2276:TRP:HB3	1:D:2367:ILE:HD12	1.96	0.43
1:D:2290:LEU:C	1:D:2290:LEU:CD1	2.91	0.43
1:D:2412:PHE:O	1:D:2414:SER:C	2.58	0.43
1:D:2695:LEU:C	1:D:2697:ASN:H	2.25	0.43
1:A:15:CYS:HA	1:A:223:PHE:H	1.84	0.43
1:A:2026:ASN:O	1:A:2029:ASN:N	2.41	0.43
1:C:83:THR:O	1:C:85:ASP:CB	2.60	0.43
1:B:523:LEU:HD22	1:B:527:PHE:HB3	2.01	0.43
1:B:2184:GLU:HA	1:B:2187:GLU:CD	2.44	0.43
1:B:2366:ILE:HA	1:B:2366:ILE:HD13	1.57	0.43
1:B:2384:ARG:O	1:B:2388:LEU:HD23	2.06	0.43
1:D:401:SER:N	1:D:428:GLU:OE2	2.52	0.43
1:D:584:GLN:HE21	1:D:585:ILE:HG22	1.82	0.43
1:D:2621:PHE:CA	1:D:2624:LYS:HG2	2.48	0.43
1:D:2707:LYS:CD	1:D:2711:ASN:HD21	2.19	0.43
1:A:8:PHE:CE2	1:A:115:ILE:HB	2.54	0.43
1:A:45:ASP:HB2	1:A:48:ASN:HB2	1.99	0.43
1:A:401:SER:N	1:A:428:GLU:OE2	2.52	0.43
1:A:523:LEU:HD22	1:A:527:PHE:HB3	2.01	0.43
1:A:574:ILE:HG13	1:A:575:ALA:N	2.33	0.43
1:A:886:ARG:C	1:A:889:LYS:H	2.27	0.43
1:A:1086:HIS:C	1:A:1088:SER:N	2.74	0.43
1:A:1172:ASN:O	1:A:1176:VAL:N	2.51	0.43
1:A:2201:LEU:HA	1:A:2201:LEU:HD22	1.34	0.43
1:A:2285:VAL:CG2	1:A:2417:LEU:CD1	2.61	0.43
1:A:2707:LYS:HD3	1:B:2706:MET:HB3	2.01	0.43
1:C:2184:GLU:HA	1:C:2187:GLU:CD	2.44	0.43
1:C:2656:TYR:O	1:C:2660:GLU:HG3	2.18	0.43
1:C:2735:LEU:C	1:C:2735:LEU:CD1	2.86	0.43
1:B:13:ASP:HB2	1:B:60:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:SER:N	1:B:428:GLU:OE2	2.52	0.43
1:B:574:ILE:HG13	1:B:575:ALA:N	2.33	0.43
1:B:582:GLN:C	1:B:582:GLN:CD	2.85	0.43
1:B:638:CYS:O	1:B:639:VAL:O	2.36	0.43
1:B:885:LEU:O	1:B:888:THR:C	2.55	0.43
1:B:2239:LYS:HG2	1:B:2240:ILE:CB	2.47	0.43
1:B:2554:ARG:NE	1:B:2554:ARG:HA	2.34	0.43
1:D:270:GLN:C	1:D:270:GLN:CD	2.85	0.43
1:D:475:LYS:HA	1:D:552:ILE:HD13	2.00	0.43
1:D:771:GLU:C	1:D:773:LEU:N	2.69	0.43
1:D:1806:ASN:O	1:D:1810:ASP:N	2.43	0.43
1:D:2285:VAL:CB	1:D:2417:LEU:HD13	2.43	0.43
1:D:2397:LEU:HD23	1:D:2397:LEU:HA	1.46	0.43
1:D:2680:ALA:C	1:D:2682:SER:H	2.25	0.43
1:A:269:ARG:HD3	1:A:272:ALA:CB	2.48	0.43
1:A:1432:VAL:O	1:A:1433:ASP:C	2.61	0.43
1:A:2365:LYS:HD2	1:A:2368:PHE:HB3	1.99	0.43
1:A:2738:HIS:O	1:A:2738:HIS:CG	2.70	0.43
1:C:77:LYS:HZ2	1:C:77:LYS:N	2.05	0.43
1:C:2239:LYS:HG2	1:C:2240:ILE:CB	2.47	0.43
1:C:2597:ARG:O	1:C:2600:LYS:N	2.50	0.43
1:C:2661:SER:HA	1:C:2664:ALA:HB3	2.01	0.43
1:B:127:LYS:O	1:B:441:ARG:CG	2.65	0.43
1:B:2350:LEU:N	1:B:2350:LEU:HD22	2.34	0.43
1:B:2732:ARG:CB	1:B:2732:ARG:NH1	2.72	0.43
1:D:45:ASP:HB2	1:D:48:ASN:H	1.83	0.43
1:D:69:GLN:CD	1:D:100:LYS:HD2	1.90	0.43
1:D:523:LEU:HD22	1:D:527:PHE:HB3	2.01	0.43
1:D:1086:HIS:C	1:D:1088:SER:N	2.74	0.43
1:D:1292:VAL:O	1:D:1296:VAL:N	2.51	0.43
1:D:2201:LEU:HB3	1:D:2202:ASP:H	1.56	0.43
1:A:1292:VAL:O	1:A:1296:VAL:N	2.51	0.43
1:A:2200:ARG:HB2	1:A:2662:TYR:CD2	2.49	0.43
1:A:2234:ASP:OD1	1:A:2234:ASP:N	2.46	0.43
1:A:2286:LEU:HD13	1:A:2342:LEU:HD21	2.01	0.43
1:A:2590:ILE:HD12	1:A:2590:ILE:HA	1.72	0.43
1:C:45:ASP:HB2	1:C:48:ASN:H	1.83	0.43
1:C:462:LYS:HD3	1:C:462:LYS:HA	1.64	0.43
1:C:583:LYS:C	1:C:583:LYS:CD	2.86	0.43
1:C:1116:LYS:C	1:C:1118:ASP:N	2.76	0.43
1:C:1292:VAL:O	1:C:1296:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2365:LYS:NZ	1:C:2395:HIS:HA	2.34	0.43
1:C:2380:THR:O	1:C:2381:ARG:C	2.61	0.43
1:C:2400:LEU:HD23	1:C:2400:LEU:HA	1.69	0.43
1:C:2409:HIS:C	1:C:2409:HIS:ND1	2.76	0.43
1:B:2197:GLU:HA	1:B:2207:GLN:HA	1.99	0.43
1:D:134:VAL:HG22	1:D:149:VAL:HG22	2.00	0.43
1:A:355:LEU:HD22	1:A:418:ILE:HB	2.00	0.43
1:A:2199:VAL:HG21	1:A:2680:ALA:HB2	2.00	0.43
1:A:2375:ASN:ND2	1:A:2375:ASN:N	2.65	0.43
1:A:2575:PHE:CE2	1:A:2579:ILE:HG13	2.54	0.43
1:A:2732:ARG:O	1:A:2732:ARG:HG2	2.19	0.43
1:C:252:THR:O	1:C:263:PHE:N	2.37	0.43
1:C:475:LYS:HA	1:C:552:ILE:HD13	2.00	0.43
1:C:546:HIS:HB2	1:C:547:ALA:H	1.48	0.43
1:C:638:CYS:O	1:C:639:VAL:O	2.36	0.43
1:C:1172:ASN:O	1:C:1176:VAL:N	2.51	0.43
1:C:1995:THR:O	1:C:1998:ASN:C	2.61	0.43
1:C:2199:VAL:HG21	1:C:2680:ALA:HB2	2.00	0.43
1:C:2398:TYR:CE1	1:C:2401:ILE:HG12	2.54	0.43
1:C:2401:ILE:HG12	1:C:2416:LEU:CD1	2.48	0.43
1:B:77:LYS:HD3	1:B:77:LYS:HA	1.92	0.43
1:B:481:VAL:CG1	1:B:559:VAL:HG11	2.45	0.43
1:D:108:ARG:HH11	1:D:108:ARG:CG	2.08	0.43
1:D:481:VAL:CG1	1:D:559:VAL:HG11	2.45	0.43
1:D:1085:ARG:O	1:D:1088:SER:N	2.47	0.43
1:D:1995:THR:O	1:D:1998:ASN:C	2.61	0.43
1:D:2184:GLU:HA	1:D:2187:GLU:CD	2.44	0.43
1:D:2258:LYS:HA	1:D:2258:LYS:HD2	1.77	0.43
1:D:2401:ILE:HG12	1:D:2416:LEU:CD1	2.48	0.43
1:A:45:ASP:HB2	1:A:48:ASN:H	1.83	0.43
1:A:134:VAL:HG22	1:A:149:VAL:HG22	2.00	0.43
1:A:517:LYS:N	1:A:517:LYS:CE	2.82	0.43
1:A:555:LEU:HD23	1:A:555:LEU:HA	1.72	0.43
1:A:2258:LYS:HD2	1:A:2258:LYS:HA	1.77	0.43
1:A:2258:LYS:HD2	1:A:2261:ARG:HG3	2.01	0.43
1:A:2554:ARG:HA	1:A:2554:ARG:NE	2.34	0.43
1:A:2732:ARG:CD	1:A:2733:ILE:HD13	2.49	0.43
1:C:2412:PHE:HD1	1:C:2415:LEU:CD1	2.31	0.43
1:B:449:ALA:O	1:B:453:LEU:N	2.30	0.43
1:B:477:LEU:HD22	1:B:556:CYS:HB3	2.01	0.43
1:B:1209:GLY:C	1:B:1259:ILE:CA	2.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2290:LEU:HD13	1:B:2290:LEU:O	2.19	0.43
1:B:2365:LYS:NZ	1:B:2395:HIS:HA	2.34	0.43
1:D:11:ILE:HD12	1:D:62:PRO:HG3	1.99	0.43
1:D:2661:SER:HA	1:D:2664:ALA:HB3	2.01	0.43
1:A:85:ASP:N	1:A:89:LEU:HD12	2.34	0.42
1:A:1797:CYS:O	1:A:1801:LYS:N	2.39	0.42
1:A:2039:SER:O	1:A:2043:TYR:N	2.46	0.42
1:A:2192:HIS:CD2	1:A:2211:PRO:HA	2.54	0.42
1:A:2558:LYS:NZ	1:B:2528:CYS:HA	2.34	0.42
1:C:8:PHE:CE2	1:C:115:ILE:HB	2.54	0.42
1:C:134:VAL:HG22	1:C:149:VAL:HG22	2.00	0.42
1:C:1792:LEU:O	1:C:1797:CYS:N	2.44	0.42
1:C:2200:ARG:CD	1:C:2662:TYR:CG	2.92	0.42
1:C:2256:TRP:CZ2	1:C:2377:GLY:HA3	2.54	0.42
1:C:2554:ARG:NE	1:C:2554:ARG:HA	2.34	0.42
1:C:2571:LEU:C	1:C:2571:LEU:CD2	2.89	0.42
1:B:85:ASP:N	1:B:89:LEU:HD12	2.34	0.42
1:B:2192:HIS:CD2	1:B:2211:PRO:HA	2.54	0.42
1:D:638:CYS:O	1:D:639:VAL:O	2.36	0.42
1:D:2027:GLU:O	1:D:2028:LYS:C	2.57	0.42
1:D:2285:VAL:CG1	1:D:2286:LEU:H	2.24	0.42
1:D:2398:TYR:CE1	1:D:2401:ILE:HG12	2.54	0.42
1:D:2409:HIS:C	1:D:2409:HIS:ND1	2.76	0.42
1:D:2441:ILE:HD12	1:D:2441:ILE:HA	1.77	0.42
1:D:2590:ILE:HA	1:D:2590:ILE:HD12	1.72	0.42
1:A:2401:ILE:HG12	1:A:2416:LEU:CD1	2.48	0.42
1:A:2680:ALA:C	1:A:2682:SER:H	2.25	0.42
1:A:2709:VAL:HA	1:A:2712:LEU:HD22	2.01	0.42
1:C:92:LEU:H	1:C:92:LEU:CD1	2.31	0.42
1:C:2345:ILE:HD11	1:C:2356:LEU:HG	2.00	0.42
1:B:8:PHE:CE2	1:B:115:ILE:HB	2.54	0.42
1:B:555:LEU:HD23	1:B:555:LEU:HA	1.72	0.42
1:B:1871:ILE:O	1:B:1875:VAL:N	2.47	0.42
1:B:2530:THR:HA	1:B:2534:CYS:HB3	2.01	0.42
1:B:2639:TRP:CE3	1:B:2639:TRP:CA	3.02	0.42
1:B:2709:VAL:HA	1:B:2712:LEU:HD22	2.01	0.42
1:D:2199:VAL:HG21	1:D:2680:ALA:HB2	2.00	0.42
1:D:2258:LYS:HD2	1:D:2261:ARG:HG3	2.01	0.42
1:D:2575:PHE:CE2	1:D:2579:ILE:HG13	2.54	0.42
1:A:2250:LEU:C	1:A:2250:LEU:CD1	2.91	0.42
1:A:2412:PHE:HD1	1:A:2415:LEU:CD1	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2606:ILE:HA	1:A:2610:THR:HG22	2.02	0.42
1:C:85:ASP:N	1:C:89:LEU:HD12	2.34	0.42
1:C:401:SER:N	1:C:428:GLU:OE2	2.52	0.42
1:C:517:LYS:N	1:C:517:LYS:CE	2.82	0.42
1:C:886:ARG:C	1:C:889:LYS:H	2.27	0.42
1:C:2027:GLU:O	1:C:2028:LYS:C	2.57	0.42
1:C:2530:THR:HA	1:C:2534:CYS:HB3	2.01	0.42
1:C:2558:LYS:HD2	1:C:2560:GLU:HG2	1.95	0.42
1:C:2621:PHE:CA	1:C:2624:LYS:HG2	2.48	0.42
1:C:2732:ARG:CD	1:C:2733:ILE:HD13	2.49	0.42
1:B:516:LEU:N	1:B:516:LEU:CD1	2.79	0.42
1:B:1995:THR:O	1:B:1998:ASN:C	2.61	0.42
1:B:2201:LEU:HD12	1:B:2203:ARG:NH2	2.31	0.42
1:B:2281:PHE:CD1	1:B:2282:ASN:N	2.87	0.42
1:B:2576:MET:CE	1:B:2580:ILE:CD1	2.80	0.42
1:B:2606:ILE:HA	1:B:2610:THR:HG22	2.02	0.42
1:D:8:PHE:CE2	1:D:115:ILE:HB	2.54	0.42
1:D:85:ASP:N	1:D:89:LEU:HD12	2.34	0.42
1:D:2281:PHE:CD1	1:D:2282:ASN:N	2.87	0.42
1:D:2369:LEU:HG	1:D:2370:MET:CE	2.49	0.42
1:D:2428:LEU:C	1:D:2428:LEU:CD1	2.85	0.42
1:A:13:ASP:HB2	1:A:60:LEU:HD23	2.00	0.42
1:A:77:LYS:HB2	1:A:78:PRO:CD	2.47	0.42
1:A:2256:TRP:CZ2	1:A:2377:GLY:CA	3.03	0.42
1:A:2350:LEU:N	1:A:2350:LEU:HD22	2.34	0.42
1:A:2656:TYR:O	1:A:2660:GLU:HG3	2.18	0.42
1:C:77:LYS:HB2	1:C:78:PRO:CD	2.47	0.42
1:C:108:ARG:HH11	1:C:108:ARG:CG	2.08	0.42
1:C:2192:HIS:CD2	1:C:2211:PRO:HA	2.54	0.42
1:C:2585:ILE:HA	1:C:2585:ILE:HD13	1.53	0.42
1:C:2639:TRP:CE3	1:C:2639:TRP:CA	3.02	0.42
1:C:2715:GLN:CD	1:D:2713:SER:HB3	2.43	0.42
1:C:2720:LYS:CA	1:C:2720:LYS:CE	2.96	0.42
1:B:564:GLN:CA	1:B:574:ILE:HD12	2.47	0.42
1:B:2401:ILE:HG12	1:B:2416:LEU:CD1	2.48	0.42
1:D:517:LYS:N	1:D:517:LYS:CE	2.82	0.42
1:D:608:LYS:C	1:D:610:ILE:N	2.72	0.42
1:D:886:ARG:C	1:D:889:LYS:H	2.27	0.42
1:D:1995:THR:O	1:D:1998:ASN:CA	2.68	0.42
1:D:2580:ILE:CG2	1:D:2584:LEU:HD12	2.50	0.42
1:D:2694:GLU:OE1	1:D:2694:GLU:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2031:ALA:O	1:A:2035:GLN:N	2.44	0.42
1:A:2365:LYS:NZ	1:A:2395:HIS:HA	2.34	0.42
1:A:2369:LEU:HG	1:A:2370:MET:CE	2.49	0.42
1:A:2644:PHE:CE1	1:A:2648:VAL:HG11	2.55	0.42
1:A:2694:GLU:OE1	1:A:2694:GLU:HA	2.20	0.42
1:C:15:CYS:HA	1:C:223:PHE:H	1.84	0.42
1:C:2281:PHE:CD1	1:C:2282:ASN:N	2.87	0.42
1:C:2286:LEU:CA	1:C:2289:LEU:HD11	2.50	0.42
1:C:2287:MET:O	1:C:2290:LEU:HB2	2.08	0.42
1:C:2369:LEU:HG	1:C:2370:MET:CE	2.49	0.42
1:C:2694:GLU:OE1	1:C:2694:GLU:HA	2.20	0.42
1:B:269:ARG:HD3	1:B:272:ALA:CB	2.48	0.42
1:B:886:ARG:C	1:B:889:LYS:H	2.27	0.42
1:B:2588:VAL:O	1:B:2592:THR:OG1	2.29	0.42
1:B:2732:ARG:CD	1:B:2733:ILE:HD13	2.49	0.42
1:D:92:LEU:H	1:D:92:LEU:HD13	1.79	0.42
1:D:2286:LEU:HD13	1:D:2342:LEU:HD21	2.01	0.42
1:D:2351:GLN:H	1:D:2352:PRO:HD2	1.82	0.42
1:D:2365:LYS:NZ	1:D:2395:HIS:HA	2.34	0.42
1:D:2597:ARG:O	1:D:2600:LYS:N	2.50	0.42
1:A:1995:THR:O	1:A:1998:ASN:CA	2.68	0.42
1:A:2184:GLU:HA	1:A:2187:GLU:CD	2.44	0.42
1:A:2203:ARG:HE	1:A:2203:ARG:HB2	1.71	0.42
1:A:2240:ILE:N	1:A:2240:ILE:CD1	2.71	0.42
1:A:2345:ILE:HD12	1:A:2357:LEU:HD23	1.99	0.42
1:A:2586:PHE:CD1	1:D:2583:ASN:ND2	2.87	0.42
1:A:2632:ILE:H	1:A:2632:ILE:HG13	1.39	0.42
1:C:254:ASP:O	1:C:261:HIS:N	2.53	0.42
1:C:2575:PHE:CE2	1:C:2579:ILE:HG13	2.54	0.42
1:B:2250:LEU:C	1:B:2250:LEU:CD1	2.91	0.42
1:B:2256:TRP:CZ2	1:B:2377:GLY:HA3	2.54	0.42
1:B:2412:PHE:HD1	1:B:2415:LEU:CD1	2.31	0.42
1:B:2656:TYR:O	1:B:2660:GLU:HG3	2.18	0.42
1:D:15:CYS:HA	1:D:223:PHE:H	1.84	0.42
1:D:441:ARG:NH1	1:D:441:ARG:CB	2.81	0.42
1:D:2200:ARG:HB2	1:D:2662:TYR:CD2	2.49	0.42
1:D:2366:ILE:HA	1:D:2366:ILE:HD13	1.57	0.42
1:D:2554:ARG:HA	1:D:2554:ARG:NE	2.34	0.42
1:D:2709:VAL:HA	1:D:2712:LEU:HD22	2.01	0.42
1:A:72:PHE:HD1	1:A:93:HIS:CB	2.19	0.42
1:A:1978:GLU:O	1:A:1979:ASN:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2279:ILE:HA	1:C:2279:ILE:HD13	1.71	0.42
1:C:2429:ASN:HA	1:C:2432:LYS:HE2	2.02	0.42
1:C:2644:PHE:CE1	1:C:2648:VAL:HG11	2.55	0.42
1:B:1995:THR:O	1:B:1998:ASN:CA	2.68	0.42
1:B:2585:ILE:HA	1:B:2585:ILE:HD13	1.53	0.42
1:B:2694:GLU:OE1	1:B:2694:GLU:HA	2.20	0.42
1:D:269:ARG:HB2	2:D:2801:JYP:C2	2.33	0.42
1:D:450:SER:HA	1:D:453:LEU:HG	1.94	0.42
1:D:1792:LEU:O	1:D:1797:CYS:N	2.44	0.42
1:D:2735:LEU:C	1:D:2735:LEU:CD1	2.86	0.42
1:A:85:ASP:CA	1:A:89:LEU:HD12	2.50	0.42
1:A:2661:SER:HA	1:A:2664:ALA:HB3	2.01	0.42
1:C:85:ASP:CA	1:C:89:LEU:HD12	2.50	0.42
1:C:477:LEU:HD22	1:C:556:CYS:HB3	2.01	0.42
1:C:564:GLN:O	1:C:571:GLN:HG2	2.20	0.42
1:C:2239:LYS:HZ2	1:C:2677:ARG:HA	1.85	0.42
1:C:2290:LEU:HD13	1:C:2290:LEU:O	2.19	0.42
1:C:2411:PHE:H	1:C:2412:PHE:HD2	1.68	0.42
1:C:2580:ILE:CG2	1:C:2584:LEU:HD12	2.50	0.42
1:B:2429:ASN:HA	1:B:2432:LYS:HE2	2.02	0.42
1:B:2559:GLU:O	1:B:2562:LEU:HB2	2.20	0.42
1:B:2575:PHE:CE2	1:B:2579:ILE:HG13	2.54	0.42
1:D:477:LEU:HD22	1:D:556:CYS:HB3	2.01	0.42
1:D:482:TYR:HA	1:D:485:THR:HA	2.02	0.42
1:D:1097:PHE:O	1:D:1098:LYS:C	2.55	0.42
1:D:2256:TRP:CZ2	1:D:2377:GLY:CA	3.03	0.42
1:A:564:GLN:O	1:A:571:GLN:HG2	2.20	0.42
1:A:2281:PHE:CD1	1:A:2282:ASN:N	2.87	0.42
1:A:2580:ILE:CG2	1:A:2584:LEU:HD12	2.50	0.42
1:C:305:PHE:HD2	1:C:314:LEU:HD23	1.85	0.42
1:C:771:GLU:C	1:C:773:LEU:N	2.69	0.42
1:C:2401:ILE:CG2	1:C:2416:LEU:CD1	2.41	0.42
1:C:2598:SER:HA	1:C:2601:GLN:HE22	1.85	0.42
1:B:254:ASP:O	1:B:261:HIS:N	2.53	0.42
1:B:517:LYS:N	1:B:517:LYS:CE	2.82	0.42
1:B:1961:ALA:O	1:B:1963:ILE:C	2.63	0.42
1:B:2256:TRP:CZ2	1:B:2377:GLY:CA	3.03	0.42
1:B:2286:LEU:HD13	1:B:2342:LEU:HD21	2.01	0.42
1:D:1086:HIS:C	1:D:1088:SER:H	2.27	0.42
1:D:1432:VAL:O	1:D:1433:ASP:C	2.60	0.42
1:D:2656:TYR:O	1:D:2660:GLU:HG3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2738:HIS:O	1:D:2739:PRO:C	2.48	0.42
1:A:132:LEU:O	1:A:159:SER:OG	2.30	0.42
1:A:1791:SER:O	1:A:1795:VAL:N	2.37	0.42
1:A:2103:ARG:O	1:A:2105:ASP:N	2.39	0.42
1:C:14:ILE:HB	1:C:224:MET:HB3	2.02	0.42
1:C:264:LEU:O	1:C:264:LEU:HD12	2.20	0.42
1:C:1995:THR:O	1:C:1998:ASN:CA	2.67	0.42
1:C:2365:LYS:HE2	1:C:2398:TYR:CB	2.37	0.42
1:B:583:LYS:C	1:B:583:LYS:CD	2.86	0.42
1:B:2369:LEU:HG	1:B:2370:MET:CE	2.49	0.42
1:B:2375:ASN:ND2	1:B:2375:ASN:N	2.65	0.42
1:B:2398:TYR:CE1	1:B:2401:ILE:HG12	2.54	0.42
1:B:2411:PHE:H	1:B:2412:PHE:HD2	1.68	0.42
1:B:2644:PHE:CE1	1:B:2648:VAL:HG11	2.55	0.42
1:B:2712:LEU:HD12	1:B:2712:LEU:HA	1.77	0.42
1:D:125:HIS:HB3	1:D:130:LYS:H	1.85	0.42
1:D:2103:ARG:O	1:D:2105:ASP:N	2.39	0.42
1:D:2256:TRP:CZ2	1:D:2377:GLY:HA3	2.54	0.42
1:D:2365:LYS:HE3	1:D:2395:HIS:O	2.16	0.42
1:D:2732:ARG:CD	1:D:2733:ILE:HD13	2.49	0.42
1:A:482:TYR:HA	1:A:485:THR:HA	2.02	0.41
1:A:2290:LEU:HD13	1:A:2290:LEU:O	2.19	0.41
1:A:2558:LYS:CD	1:A:2560:GLU:HG3	2.50	0.41
1:A:2559:GLU:O	1:A:2562:LEU:HB2	2.20	0.41
1:A:2677:ARG:HH21	1:B:2623:ASN:CB	2.28	0.41
1:A:2730:LYS:C	1:A:2730:LYS:CD	2.85	0.41
1:C:1389:LYS:O	1:C:1436:VAL:CA	2.68	0.41
1:C:2228:TYR:HD1	1:C:2228:TYR:HA	1.74	0.41
1:C:2256:TRP:CZ2	1:C:2377:GLY:CA	3.03	0.41
1:C:2290:LEU:C	1:C:2290:LEU:CD1	2.91	0.41
1:B:482:TYR:HA	1:B:485:THR:HA	2.02	0.41
1:B:2345:ILE:CG2	1:B:2353:THR:HG1	2.15	0.41
1:B:2399:LEU:C	1:B:2399:LEU:CD2	2.85	0.41
1:D:2401:ILE:CD1	1:D:2401:ILE:C	2.85	0.41
1:D:2406:LEU:HD22	1:D:2407:PHE:CD1	2.55	0.41
1:D:2530:THR:HA	1:D:2534:CYS:HB3	2.01	0.41
1:D:2606:ILE:HA	1:D:2610:THR:HG22	2.02	0.41
1:A:84:THR:HB	1:A:89:LEU:HG	2.02	0.41
1:A:516:LEU:H	1:A:516:LEU:CD1	2.14	0.41
1:A:1086:HIS:C	1:A:1088:SER:H	2.28	0.41
1:A:2256:TRP:CZ2	1:A:2377:GLY:HA3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2388:LEU:CD2	1:A:2388:LEU:N	2.73	0.41
1:A:2406:LEU:HD22	1:A:2407:PHE:CD1	2.55	0.41
1:C:2350:LEU:N	1:C:2350:LEU:HD22	2.34	0.41
1:C:2406:LEU:HD22	1:C:2407:PHE:CD1	2.55	0.41
1:C:2535:ILE:H	1:C:2535:ILE:HG13	1.62	0.41
1:C:2606:ILE:HA	1:C:2610:THR:HG22	2.02	0.41
1:B:1086:HIS:C	1:B:1088:SER:H	2.27	0.41
1:B:2027:GLU:O	1:B:2028:LYS:C	2.57	0.41
1:B:2661:SER:HA	1:B:2664:ALA:HB3	2.01	0.41
1:D:76:ALA:HB3	1:D:77:LYS:CE	2.50	0.41
1:D:305:PHE:HD2	1:D:314:LEU:HD23	1.85	0.41
1:D:2160:ALA:O	1:D:2164:ALA:N	2.53	0.41
1:D:2350:LEU:N	1:D:2350:LEU:HD22	2.34	0.41
1:D:2411:PHE:H	1:D:2412:PHE:HD2	1.68	0.41
1:D:2558:LYS:HD2	1:D:2560:GLU:HG2	1.95	0.41
1:D:2639:TRP:CE3	1:D:2639:TRP:CA	3.02	0.41
1:A:76:ALA:HB3	1:A:77:LYS:CE	2.50	0.41
1:A:254:ASP:O	1:A:261:HIS:N	2.53	0.41
1:A:446:ALA:CB	1:A:480:LEU:HD21	2.50	0.41
1:A:507:GLN:HA	1:A:510:MET:SD	2.61	0.41
1:A:2287:MET:HB3	1:A:2287:MET:HE3	1.97	0.41
1:A:2555:LYS:NZ	1:B:2526:HIS:HB2	2.36	0.41
1:C:74:LYS:HA	1:C:74:LYS:HE2	2.01	0.41
1:C:460:LEU:HD22	1:C:460:LEU:HA	1.62	0.41
1:C:481:VAL:CG1	1:C:559:VAL:HG11	2.45	0.41
1:C:2361:ASN:ND2	1:C:2401:ILE:CD1	2.50	0.41
1:B:2406:LEU:HD22	1:B:2407:PHE:CD1	2.55	0.41
1:B:2582:LEU:HD23	1:B:2582:LEU:HA	1.53	0.41
1:B:2621:PHE:CA	1:B:2624:LYS:HG2	2.48	0.41
1:D:254:ASP:O	1:D:261:HIS:N	2.53	0.41
1:D:462:LYS:HD3	1:D:462:LYS:HA	1.64	0.41
1:D:2239:LYS:HG2	1:D:2240:ILE:CB	2.47	0.41
1:D:2290:LEU:HD13	1:D:2290:LEU:O	2.19	0.41
1:D:2598:SER:HA	1:D:2601:GLN:HE22	1.85	0.41
1:D:2644:PHE:CE1	1:D:2648:VAL:HG11	2.55	0.41
1:A:73:TRP:HZ3	1:A:156:ASN:HD21	1.69	0.41
1:A:305:PHE:HD2	1:A:314:LEU:HD23	1.85	0.41
1:A:2256:TRP:CZ2	1:A:2377:GLY:N	2.89	0.41
1:A:2398:TYR:CE1	1:A:2401:ILE:HG12	2.54	0.41
1:A:2524:LYS:HD3	1:A:2524:LYS:HA	1.78	0.41
1:A:2588:VAL:O	1:A:2592:THR:OG1	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2598:SER:HA	1:A:2601:GLN:HE22	1.85	0.41
1:A:2639:TRP:CE3	1:A:2639:TRP:CA	3.02	0.41
1:C:76:ALA:HB3	1:C:77:LYS:CE	2.50	0.41
1:C:91:LYS:HA	1:C:94:HIS:CD2	2.56	0.41
1:C:446:ALA:CB	1:C:480:LEU:HD21	2.50	0.41
1:C:482:TYR:HA	1:C:485:THR:HA	2.02	0.41
1:B:305:PHE:HD2	1:B:314:LEU:HD23	1.85	0.41
1:B:608:LYS:C	1:B:610:ILE:H	2.28	0.41
1:B:2031:ALA:O	1:B:2035:GLN:N	2.43	0.41
1:B:2387:VAL:HA	1:B:2390:VAL:HG12	2.03	0.41
1:D:85:ASP:CA	1:D:89:LEU:HD12	2.50	0.41
1:D:264:LEU:O	1:D:264:LEU:HD12	2.20	0.41
1:D:510:MET:O	1:D:515:ILE:HG22	2.08	0.41
1:A:269:ARG:HB2	2:A:2801:JYP:C2	2.33	0.41
1:A:885:LEU:O	1:A:888:THR:C	2.55	0.41
1:C:1791:SER:O	1:C:1795:VAL:N	2.37	0.41
1:C:2256:TRP:CZ2	1:C:2377:GLY:N	2.89	0.41
1:C:2353:THR:HA	1:C:2356:LEU:HD23	2.03	0.41
1:C:2378:THR:HG22	1:C:2380:THR:HB	2.03	0.41
1:C:2460:TYR:OH	1:C:2531:LEU:O	2.34	0.41
1:B:134:VAL:HG22	1:B:149:VAL:HG22	2.00	0.41
1:B:2222:GLU:H	1:B:2222:GLU:HG3	1.59	0.41
1:B:2252:ASN:HA	1:B:2255:ASN:ND2	2.36	0.41
1:B:2584:LEU:HD23	1:B:2584:LEU:HA	1.68	0.41
1:D:269:ARG:CG	1:D:272:ALA:HB3	2.51	0.41
1:D:507:GLN:HA	1:D:510:MET:SD	2.61	0.41
1:D:522:LEU:C	1:D:522:LEU:CD1	2.85	0.41
1:D:564:GLN:O	1:D:571:GLN:HG2	2.20	0.41
1:D:2192:HIS:CD2	1:D:2211:PRO:HA	2.54	0.41
1:D:2201:LEU:HD12	1:D:2203:ARG:NH2	2.31	0.41
1:D:2406:LEU:HD22	1:D:2407:PHE:CG	2.56	0.41
1:D:2554:ARG:HH21	1:D:2556:PRO:HD3	1.85	0.41
1:A:125:HIS:HB3	1:A:130:LYS:H	1.85	0.41
1:A:477:LEU:CD2	1:A:556:CYS:HB3	2.51	0.41
1:A:1389:LYS:O	1:A:1436:VAL:CA	2.68	0.41
1:A:2280:SER:O	1:A:2281:PHE:C	2.61	0.41
1:A:2427:LEU:HD13	1:D:2444:THR:OG1	2.20	0.41
1:A:2530:THR:HA	1:A:2534:CYS:HB3	2.01	0.41
1:A:2572:LEU:HA	1:A:2572:LEU:HD23	1.74	0.41
1:C:108:ARG:O	1:C:108:ARG:CZ	2.69	0.41
1:C:270:GLN:NE2	1:C:270:GLN:C	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:ASN:CG	1:B:2730:LYS:CG	2.74	0.41
1:C:2286:LEU:HD13	1:C:2342:LEU:HD21	2.01	0.41
1:C:2677:ARG:HH21	1:D:2623:ASN:CB	2.29	0.41
1:C:2732:ARG:O	1:C:2732:ARG:HG2	2.19	0.41
1:B:125:HIS:HB3	1:B:130:LYS:H	1.85	0.41
1:B:477:LEU:CD2	1:B:556:CYS:HB3	2.51	0.41
1:B:514:ASN:OD1	1:B:516:LEU:HD13	1.95	0.41
1:B:2219:LEU:CD2	1:B:2254:MET:CE	2.77	0.41
1:B:2406:LEU:HD22	1:B:2407:PHE:CG	2.56	0.41
1:B:2572:LEU:HD23	1:B:2572:LEU:HA	1.74	0.41
1:D:91:LYS:HA	1:D:94:HIS:CD2	2.56	0.41
1:D:446:ALA:CB	1:D:480:LEU:HD21	2.50	0.41
1:D:2280:SER:O	1:D:2281:PHE:C	2.61	0.41
1:D:2419:ASP:HA	1:D:2422:TYR:HB3	2.03	0.41
1:D:2429:ASN:HA	1:D:2432:LYS:HE2	2.02	0.41
1:D:2528:CYS:HB2	1:D:2529:GLU:H	1.72	0.41
1:D:2578:ILE:HG23	1:D:2579:ILE:CG1	2.48	0.41
1:A:14:ILE:HB	1:A:224:MET:HB3	2.02	0.41
1:A:69:GLN:H	1:A:100:LYS:HZ3	1.65	0.41
1:A:477:LEU:HD22	1:A:556:CYS:HB3	2.01	0.41
1:A:1380:GLU:CA	1:A:1423:TYR:O	2.69	0.41
1:A:2278:SER:O	1:A:2281:PHE:CZ	2.58	0.41
1:A:2378:THR:HG22	1:A:2380:THR:HB	2.03	0.41
1:A:2429:ASN:HA	1:A:2432:LYS:HE2	2.02	0.41
1:A:2732:ARG:HD2	1:A:2733:ILE:HD13	2.03	0.41
1:C:84:THR:HB	1:C:89:LEU:HG	2.02	0.41
1:C:477:LEU:CD2	1:C:556:CYS:HB3	2.51	0.41
1:C:574:ILE:HA	1:C:577:GLN:CD	2.33	0.41
1:C:2252:ASN:HA	1:C:2255:ASN:ND2	2.36	0.41
1:C:2345:ILE:HD12	1:C:2353:THR:HG1	1.84	0.41
1:C:2401:ILE:CD1	1:C:2401:ILE:C	2.85	0.41
1:C:2709:VAL:HA	1:C:2712:LEU:HD22	2.01	0.41
1:B:14:ILE:HB	1:B:224:MET:HB3	2.02	0.41
1:B:76:ALA:HB3	1:B:77:LYS:CE	2.50	0.41
1:B:85:ASP:CA	1:B:89:LEU:HD12	2.50	0.41
1:B:264:LEU:O	1:B:264:LEU:HD12	2.20	0.41
1:B:497:VAL:CB	1:B:504:ARG:NE	2.83	0.41
1:B:516:LEU:HB2	1:B:517:LYS:HE2	2.03	0.41
1:B:1097:PHE:O	1:B:1098:LYS:C	2.55	0.41
1:B:1978:GLU:O	1:B:1979:ASN:C	2.62	0.41
1:B:2365:LYS:HE3	1:B:2395:HIS:O	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2398:TYR:HA	1:B:2401:ILE:HG23	2.03	0.41
1:B:2580:ILE:CG2	1:B:2584:LEU:HD12	2.50	0.41
1:D:108:ARG:NH1	1:D:108:ARG:CG	2.72	0.41
1:D:1380:GLU:CA	1:D:1423:TYR:O	2.69	0.41
1:A:169:LEU:O	1:B:387:TYR:OH	2.17	0.41
1:A:252:THR:O	1:A:263:PHE:N	2.37	0.41
1:A:2027:GLU:O	1:A:2028:LYS:C	2.57	0.41
1:A:2201:LEU:N	1:A:2662:TYR:CZ	2.79	0.41
1:A:2286:LEU:CA	1:A:2289:LEU:HD11	2.50	0.41
1:A:2406:LEU:HD22	1:A:2407:PHE:CG	2.56	0.41
1:A:2419:ASP:HA	1:A:2422:TYR:HB3	2.03	0.41
1:A:2700:GLU:OE1	1:B:2699:GLN:CB	2.67	0.41
1:C:125:HIS:HB3	1:C:130:LYS:H	1.85	0.41
1:C:2398:TYR:HA	1:C:2401:ILE:HG23	2.03	0.41
1:C:2406:LEU:HD22	1:C:2407:PHE:CG	2.56	0.41
1:C:2407:PHE:CD1	1:C:2407:PHE:C	2.97	0.41
1:C:2432:LYS:HE2	1:C:2432:LYS:HB2	1.89	0.41
1:C:2558:LYS:CD	1:C:2560:GLU:HG3	2.49	0.41
1:C:2572:LEU:HD23	1:C:2572:LEU:HA	1.74	0.41
1:C:2651:LYS:HZ2	1:C:2655:GLU:HB2	1.85	0.41
1:C:2732:ARG:HD2	1:C:2733:ILE:HD13	2.03	0.41
1:B:108:ARG:O	1:B:108:ARG:CZ	2.69	0.41
1:B:162:TYR:CZ	1:B:187:VAL:HG22	2.56	0.41
1:B:446:ALA:CB	1:B:480:LEU:HD21	2.50	0.41
1:B:2245:LEU:H	1:B:2245:LEU:HG	1.57	0.41
1:B:2290:LEU:C	1:B:2290:LEU:CD1	2.91	0.41
1:B:2353:THR:HA	1:B:2356:LEU:HD23	2.03	0.41
1:B:2400:LEU:HD23	1:B:2400:LEU:HA	1.69	0.41
1:B:2573:PHE:CD1	1:B:2577:VAL:HG23	2.56	0.41
1:D:497:VAL:CB	1:D:504:ARG:NE	2.83	0.41
1:D:2250:LEU:HA	1:D:2250:LEU:HD22	1.41	0.41
1:D:2387:VAL:HA	1:D:2390:VAL:HG12	2.03	0.41
1:D:2720:LYS:CA	1:D:2720:LYS:CE	2.96	0.41
1:A:264:LEU:O	1:A:264:LEU:HD12	2.20	0.41
1:A:269:ARG:CG	1:A:272:ALA:HB3	2.51	0.41
1:A:281:LEU:HB3	1:A:308:LEU:HB2	2.03	0.41
1:A:438:ALA:HA	1:A:441:ARG:NH2	2.36	0.41
1:A:441:ARG:NH1	1:A:441:ARG:CB	2.81	0.41
1:A:507:GLN:CD	1:A:567:TYR:CZ	2.95	0.41
1:A:2160:ALA:O	1:A:2164:ALA:N	2.53	0.41
1:A:2252:ASN:HA	1:A:2255:ASN:ND2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2345:ILE:CD1	1:A:2356:LEU:CG	2.80	0.41
1:A:2554:ARG:HH21	1:A:2556:PRO:HD3	1.85	0.41
1:A:2558:LYS:HD2	1:A:2560:GLU:HG2	1.94	0.41
1:A:2702:LEU:HD23	1:A:2702:LEU:HA	1.97	0.41
1:C:497:VAL:CB	1:C:504:ARG:NE	2.83	0.41
1:C:1961:ALA:O	1:C:1963:ILE:C	2.63	0.41
1:C:2239:LYS:HZ3	1:C:2677:ARG:NE	2.12	0.41
1:C:2280:SER:O	1:C:2281:PHE:C	2.61	0.41
1:C:2524:LYS:HA	1:C:2524:LYS:HD3	1.78	0.41
1:C:2558:LYS:NZ	1:D:2528:CYS:HA	2.36	0.41
1:C:2559:GLU:O	1:C:2562:LEU:HB2	2.20	0.41
1:C:2578:ILE:HG23	1:C:2579:ILE:CG1	2.48	0.41
1:C:2707:LYS:HG2	1:D:2706:MET:CB	2.51	0.41
1:B:84:THR:HB	1:B:89:LEU:HG	2.02	0.41
1:B:200:LEU:HD21	1:B:208:GLU:HB2	2.03	0.41
1:B:1326:CYS:C	1:B:1386:THR:CA	2.94	0.41
1:B:2598:SER:HA	1:B:2601:GLN:HE22	1.85	0.41
1:B:2738:HIS:O	1:B:2738:HIS:CG	2.70	0.41
1:D:73:TRP:HZ3	1:D:156:ASN:HD21	1.69	0.41
1:D:132:LEU:O	1:D:159:SER:OG	2.30	0.41
1:D:269:ARG:HD3	1:D:272:ALA:CB	2.48	0.41
1:D:281:LEU:HB3	1:D:308:LEU:HB2	2.03	0.41
1:D:1326:CYS:C	1:D:1386:THR:CA	2.94	0.41
1:D:1389:LYS:O	1:D:1436:VAL:CA	2.68	0.41
1:D:2245:LEU:H	1:D:2245:LEU:HG	1.57	0.41
1:D:2578:ILE:CD1	1:D:2578:ILE:O	2.68	0.41
1:D:2584:LEU:HA	1:D:2584:LEU:HD23	1.69	0.41
1:D:2647:LEU:O	1:D:2650:VAL:CG2	2.69	0.41
1:A:107:ASN:HA	1:A:110:LEU:HB2	2.03	0.41
1:A:162:TYR:CZ	1:A:187:VAL:HG22	2.56	0.41
1:A:497:VAL:CB	1:A:504:ARG:NE	2.83	0.41
1:A:1818:ASP:O	1:A:1822:HIS:N	2.38	0.41
1:A:2272:ASN:O	1:A:2276:TRP:HD1	1.79	0.41
1:A:2712:LEU:HD12	1:A:2712:LEU:HA	1.77	0.41
1:C:107:ASN:HA	1:C:110:LEU:HB2	2.03	0.41
1:C:507:GLN:HA	1:C:510:MET:SD	2.61	0.41
1:C:1326:CYS:C	1:C:1386:THR:CA	2.94	0.41
1:C:1380:GLU:CA	1:C:1423:TYR:O	2.69	0.41
1:C:2343:ARG:HB3	1:C:2346:PHE:HE2	1.87	0.41
1:C:2370:MET:CE	1:C:2370:MET:CA	2.85	0.41
1:C:2444:THR:OG1	1:D:2427:LEU:HD13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2647:LEU:O	1:C:2650:VAL:CG2	2.69	0.41
1:C:2713:SER:HA	1:C:2716:LEU:CD2	2.44	0.41
1:B:441:ARG:NH1	1:B:441:ARG:CB	2.81	0.41
1:B:564:GLN:O	1:B:571:GLN:HG2	2.20	0.41
1:B:1116:LYS:O	1:B:1118:ASP:N	2.54	0.41
1:B:1389:LYS:O	1:B:1436:VAL:CA	2.68	0.41
1:B:2256:TRP:CZ2	1:B:2377:GLY:N	2.89	0.41
1:B:2287:MET:HB3	1:B:2287:MET:HE3	1.97	0.41
1:B:2401:ILE:HG21	1:B:2416:LEU:HD13	0.59	0.41
1:B:2407:PHE:HD1	1:B:2408:VAL:HG22	1.86	0.41
1:B:2554:ARG:HH21	1:B:2556:PRO:HD3	1.85	0.41
1:B:2720:LYS:CA	1:B:2720:LYS:CE	2.96	0.41
1:D:14:ILE:HB	1:D:224:MET:HB3	2.02	0.41
1:D:1116:LYS:C	1:D:1118:ASP:N	2.76	0.41
1:D:2407:PHE:CD1	1:D:2407:PHE:C	2.97	0.41
1:A:2411:PHE:H	1:A:2412:PHE:HD2	1.68	0.40
1:A:2621:PHE:CA	1:A:2624:LYS:HG2	2.48	0.40
1:A:2699:GLN:OE1	1:D:2699:GLN:HB3	2.18	0.40
1:C:269:ARG:CG	1:C:272:ALA:HB3	2.51	0.40
1:C:358:VAL:HA	1:C:359:PRO:HD3	1.91	0.40
1:C:608:LYS:C	1:C:610:ILE:H	2.28	0.40
1:B:107:ASN:HA	1:B:110:LEU:HB2	2.03	0.40
1:B:152:ASP:CG	1:B:155:GLY:H	2.29	0.40
1:B:507:GLN:HA	1:B:510:MET:SD	2.61	0.40
1:B:2201:LEU:N	1:B:2662:TYR:CZ	2.78	0.40
1:B:2219:LEU:HD13	1:B:2219:LEU:HA	1.90	0.40
1:B:2632:ILE:H	1:B:2632:ILE:HG13	1.39	0.40
1:B:2723:MET:SD	1:B:2727:ARG:NH1	2.85	0.40
1:D:107:ASN:HA	1:D:110:LEU:HB2	2.03	0.40
1:D:1978:GLU:O	1:D:1979:ASN:C	2.62	0.40
1:D:2252:ASN:HA	1:D:2255:ASN:ND2	2.35	0.40
1:D:2286:LEU:CA	1:D:2289:LEU:HD11	2.50	0.40
1:D:2738:HIS:O	1:D:2738:HIS:CG	2.70	0.40
1:A:2573:PHE:CD1	1:A:2577:VAL:HG23	2.56	0.40
1:A:2695:LEU:C	1:A:2697:ASN:H	2.25	0.40
1:C:162:TYR:CZ	1:C:187:VAL:HG22	2.56	0.40
1:C:1116:LYS:O	1:C:1118:ASP:N	2.54	0.40
1:C:2430:VAL:HG12	1:C:2593:PHE:CZ	2.56	0.40
1:C:2554:ARG:HH21	1:C:2556:PRO:HD3	1.85	0.40
1:C:2573:PHE:CD1	1:C:2577:VAL:HG23	2.56	0.40
1:C:2582:LEU:HA	1:C:2582:LEU:HD23	1.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2706:MET:O	1:B:2707:LYS:NZ	2.53	0.40
1:B:2430:VAL:HG12	1:B:2593:PHE:CZ	2.56	0.40
1:B:2524:LYS:HD3	1:B:2524:LYS:HA	1.78	0.40
1:B:2713:SER:HA	1:B:2716:LEU:CD2	2.44	0.40
1:D:108:ARG:O	1:D:108:ARG:CZ	2.69	0.40
1:D:127:LYS:O	1:D:441:ARG:HG2	2.22	0.40
1:D:152:ASP:CG	1:D:155:GLY:H	2.30	0.40
1:D:477:LEU:CD2	1:D:556:CYS:HB3	2.51	0.40
1:D:2219:LEU:CD2	1:D:2254:MET:CE	2.77	0.40
1:D:2243:PHE:HE2	1:D:2638:MET:CB	2.01	0.40
1:D:2353:THR:HA	1:D:2356:LEU:HD23	2.03	0.40
1:D:2558:LYS:HD3	1:D:2558:LYS:HA	1.77	0.40
1:A:108:ARG:O	1:A:108:ARG:CZ	2.69	0.40
1:A:449:ALA:O	1:A:453:LEU:N	2.30	0.40
1:A:2279:ILE:HD13	1:A:2279:ILE:HA	1.71	0.40
1:A:2407:PHE:HD1	1:A:2408:VAL:HG22	1.86	0.40
1:A:2537:THR:OG1	1:A:2538:VAL:N	2.55	0.40
1:A:2639:TRP:CE3	1:A:2642:LEU:HB2	2.56	0.40
1:A:2647:LEU:O	1:A:2650:VAL:CG2	2.69	0.40
1:C:194:HIS:N	1:C:210:ASN:O	2.36	0.40
1:C:507:GLN:CD	1:C:567:TYR:CZ	2.95	0.40
1:C:840:VAL:O	1:C:844:LEU:CA	2.69	0.40
1:C:2160:ALA:O	1:C:2164:ALA:N	2.53	0.40
1:C:2419:ASP:HA	1:C:2422:TYR:HB3	2.03	0.40
1:C:2623:ASN:OD1	1:B:2677:ARG:CD	2.56	0.40
1:C:2639:TRP:CE3	1:C:2642:LEU:HB2	2.56	0.40
1:B:91:LYS:HA	1:B:94:HIS:CD2	2.56	0.40
1:B:1116:LYS:C	1:B:1118:ASP:N	2.76	0.40
1:D:299:TRP:CZ2	1:D:380:SER:CB	2.99	0.40
1:D:443:LEU:C	1:D:443:LEU:CD2	2.84	0.40
1:D:516:LEU:HB2	1:D:517:LYS:HE2	2.03	0.40
1:D:646:PRO:C	1:D:649:GLN:H	2.02	0.40
1:D:2559:GLU:O	1:D:2562:LEU:HB2	2.20	0.40
1:A:602:ASN:CA	1:A:606:LEU:H	2.34	0.40
1:A:2353:THR:HA	1:A:2356:LEU:HD23	2.03	0.40
1:C:60:LEU:HD13	1:C:60:LEU:HA	1.97	0.40
1:C:152:ASP:CG	1:C:155:GLY:H	2.29	0.40
1:C:256:HIS:NE2	1:C:409:GLU:OE1	2.55	0.40
1:B:1032:HIS:O	1:B:1036:GLN:N	2.55	0.40
1:B:1380:GLU:CA	1:B:1423:TYR:O	2.69	0.40
1:B:2343:ARG:HB3	1:B:2346:PHE:HE2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2412:PHE:CD1	1:B:2415:LEU:HD12	2.57	0.40
1:B:2597:ARG:O	1:B:2600:LYS:N	2.50	0.40
1:D:438:ALA:HA	1:D:441:ARG:NH2	2.36	0.40
1:D:2397:LEU:HD23	1:D:2400:LEU:HB2	2.04	0.40
1:A:152:ASP:CG	1:A:155:GLY:H	2.29	0.40
1:A:1085:ARG:O	1:A:1088:SER:N	2.47	0.40
1:A:1116:LYS:O	1:A:1118:ASP:N	2.54	0.40
1:A:2400:LEU:HD23	1:A:2400:LEU:HA	1.69	0.40
1:A:2412:PHE:CD1	1:A:2415:LEU:HD12	2.57	0.40
1:A:2578:ILE:O	1:A:2582:LEU:HB2	2.21	0.40
1:C:1086:HIS:C	1:C:1088:SER:H	2.28	0.40
1:C:2031:ALA:O	1:C:2035:GLN:N	2.44	0.40
1:C:2696:ARG:NH2	1:B:2696:ARG:NH2	2.68	0.40
1:B:73:TRP:HZ3	1:B:156:ASN:HD21	1.69	0.40
1:B:554:ARG:NH1	1:B:585:ILE:HD13	2.35	0.40
1:D:162:TYR:CZ	1:D:187:VAL:HG22	2.56	0.40
1:D:363:ASP:OD1	1:D:363:ASP:N	2.55	0.40
1:D:1032:HIS:O	1:D:1036:GLN:N	2.55	0.40
1:D:2256:TRP:CZ2	1:D:2377:GLY:N	2.89	0.40
1:D:2732:ARG:O	1:D:2732:ARG:HG2	2.19	0.40
1:D:2732:ARG:HD2	1:D:2733:ILE:HD13	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2109/2739 (77%)	1793 (85%)	255 (12%)	61 (3%)	3	26
1	B	2109/2739 (77%)	1793 (85%)	255 (12%)	61 (3%)	3	26
1	C	2109/2739 (77%)	1792 (85%)	256 (12%)	61 (3%)	3	26
1	D	2109/2739 (77%)	1792 (85%)	256 (12%)	61 (3%)	3	26

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	8436/10956 (77%)	7170 (85%)	1022 (12%)	244 (3%)	5	26

All (244) Ramachandran outliers are listed below:

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

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

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

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

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Mol	Chain	Res	Type
1	D	2626	VAL
1	A	639	VAL
1	A	1007	GLN
1	A	1101	GLN
1	A	1412	HIS
1	A	2047	PRO
1	A	2143	GLU
1	A	2182	GLY
1	A	2410	GLU
1	C	639	VAL
1	C	1007	GLN
1	C	1101	GLN
1	C	1412	HIS
1	C	2047	PRO
1	C	2143	GLU
1	C	2182	GLY
1	C	2410	GLU
1	B	639	VAL
1	B	1007	GLN
1	B	1101	GLN
1	B	1412	HIS
1	B	2047	PRO
1	B	2143	GLU
1	B	2182	GLY
1	B	2410	GLU
1	D	639	VAL
1	D	1007	GLN
1	D	1101	GLN
1	D	1412	HIS
1	D	2047	PRO
1	D	2143	GLU
1	D	2182	GLY
1	D	2410	GLU
1	A	84	THR
1	A	1306	VAL
1	A	1525	LEU
1	A	1991	GLN
1	A	2381	ARG
1	A	2681	MET
1	C	1306	VAL
1	C	1525	LEU
1	C	1991	GLN

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

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	857/2449 (35%)	714 (83%)	143 (17%)	2	12
1	B	857/2449 (35%)	714 (83%)	143 (17%)	2	12
1	C	857/2449 (35%)	714 (83%)	143 (17%)	2	12
1	D	857/2449 (35%)	714 (83%)	143 (17%)	2	12
All	All	3428/9796 (35%)	2856 (83%)	572 (17%)	4	12

All (572) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	74	LYS
1	A	77	LYS
1	A	78	PRO
1	A	81	ASN
1	A	85	ASP
1	A	88	LEU
1	A	89	LEU
1	A	90	ASN
1	A	92	LEU
1	A	94	HIS
1	A	97	ASP
1	A	99	GLU
1	A	102	GLN
1	A	105	THR
1	A	108	ARG
1	A	265	ARG
1	A	270	GLN
1	A	441	ARG
1	A	443	LEU
1	A	452	VAL
1	A	501	LYS
1	A	509	LEU
1	A	515	ILE
1	A	516	LEU

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Mol	Chain	Res	Type
1	A	517	LYS
1	A	519	ILE
1	A	523	LEU
1	A	526	PRO
1	A	527	PHE
1	A	546	HIS
1	A	549	PHE
1	A	553	CYS
1	A	554	ARG
1	A	556	CYS
1	A	562	HIS
1	A	572	GLU
1	A	580	PHE
1	A	581	MET
1	A	582	GLN
1	A	584	GLN
1	A	2184	GLU
1	A	2187	GLU
1	A	2198	ILE
1	A	2201	LEU
1	A	2203	ARG
1	A	2204	THR
1	A	2208	ILE
1	A	2221	LYS
1	A	2225	LEU
1	A	2240	ILE
1	A	2241	ASN
1	A	2245	LEU
1	A	2248	GLU
1	A	2250	LEU
1	A	2251	PHE
1	A	2254	MET
1	A	2267	TYR
1	A	2269	CYS
1	A	2275	PHE
1	A	2279	ILE
1	A	2286	LEU
1	A	2289	LEU
1	A	2291	VAL
1	A	2341	ILE
1	A	2344	LEU
1	A	2354	LEU

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Mol	Chain	Res	Type
1	A	2356	LEU
1	A	2357	LEU
1	A	2360	PHE
1	A	2363	CYS
1	A	2366	ILE
1	A	2370	MET
1	A	2372	PHE
1	A	2378	THR
1	A	2380	THR
1	A	2387	VAL
1	A	2388	LEU
1	A	2393	LEU
1	A	2396	LEU
1	A	2397	LEU
1	A	2399	LEU
1	A	2401	ILE
1	A	2402	CYS
1	A	2406	LEU
1	A	2407	PHE
1	A	2408	VAL
1	A	2409	HIS
1	A	2415	LEU
1	A	2418	PHE
1	A	2421	VAL
1	A	2422	TYR
1	A	2423	ARG
1	A	2428	LEU
1	A	2430	VAL
1	A	2434	VAL
1	A	2441	ILE
1	A	2447	LEU
1	A	2461	LEU
1	A	2524	LYS
1	A	2531	LEU
1	A	2535	ILE
1	A	2543	LEU
1	A	2554	ARG
1	A	2558	LYS
1	A	2566	ARG
1	A	2571	LEU
1	A	2576	MET
1	A	2580	ILE

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Mol	Chain	Res	Type
1	A	2581	VAL
1	A	2596	LEU
1	A	2608	LYS
1	A	2616	LEU
1	A	2618	ARG
1	A	2619	ASP
1	A	2624	LYS
1	A	2632	ILE
1	A	2639	TRP
1	A	2642	LEU
1	A	2646	VAL
1	A	2649	LYS
1	A	2651	LYS
1	A	2665	GLU
1	A	2667	ILE
1	A	2670	ARG
1	A	2679	ARG
1	A	2683	LEU
1	A	2698	LEU
1	A	2705	THR
1	A	2712	LEU
1	A	2715	GLN
1	A	2716	LEU
1	A	2718	GLU
1	A	2719	LEU
1	A	2720	LYS
1	A	2722	GLN
1	A	2724	THR
1	A	2726	GLN
1	A	2727	ARG
1	A	2730	LYS
1	A	2732	ARG
1	A	2733	ILE
1	A	2735	LEU
1	A	2738	HIS
1	C	74	LYS
1	C	77	LYS
1	C	78	PRO
1	C	81	ASN
1	C	85	ASP
1	C	88	LEU
1	C	89	LEU

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Mol	Chain	Res	Type
1	C	90	ASN
1	C	92	LEU
1	C	94	HIS
1	C	97	ASP
1	C	99	GLU
1	C	102	GLN
1	C	105	THR
1	C	108	ARG
1	C	265	ARG
1	C	270	GLN
1	C	441	ARG
1	C	443	LEU
1	C	452	VAL
1	C	501	LYS
1	C	509	LEU
1	C	515	ILE
1	C	516	LEU
1	C	517	LYS
1	C	519	ILE
1	C	523	LEU
1	C	526	PRO
1	C	527	PHE
1	C	546	HIS
1	C	549	PHE
1	C	553	CYS
1	C	554	ARG
1	C	556	CYS
1	C	562	HIS
1	C	572	GLU
1	C	580	PHE
1	C	581	MET
1	C	582	GLN
1	C	584	GLN
1	C	2184	GLU
1	C	2187	GLU
1	C	2198	ILE
1	C	2201	LEU
1	C	2203	ARG
1	C	2204	THR
1	C	2208	ILE
1	C	2221	LYS
1	C	2225	LEU

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Mol	Chain	Res	Type
1	C	2240	ILE
1	C	2241	ASN
1	C	2245	LEU
1	C	2248	GLU
1	C	2250	LEU
1	C	2251	PHE
1	C	2254	MET
1	C	2267	TYR
1	C	2269	CYS
1	C	2275	PHE
1	C	2279	ILE
1	C	2286	LEU
1	C	2289	LEU
1	C	2291	VAL
1	C	2341	ILE
1	C	2344	LEU
1	C	2354	LEU
1	C	2356	LEU
1	C	2357	LEU
1	C	2360	PHE
1	C	2363	CYS
1	C	2366	ILE
1	C	2370	MET
1	C	2372	PHE
1	C	2378	THR
1	C	2380	THR
1	C	2387	VAL
1	C	2388	LEU
1	C	2393	LEU
1	C	2396	LEU
1	C	2397	LEU
1	C	2399	LEU
1	C	2401	ILE
1	C	2402	CYS
1	C	2406	LEU
1	C	2407	PHE
1	C	2408	VAL
1	C	2409	HIS
1	C	2415	LEU
1	C	2418	PHE
1	C	2421	VAL
1	C	2422	TYR

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Mol	Chain	Res	Type
1	C	2423	ARG
1	C	2428	LEU
1	C	2430	VAL
1	C	2434	VAL
1	C	2441	ILE
1	C	2447	LEU
1	C	2461	LEU
1	C	2524	LYS
1	C	2531	LEU
1	C	2535	ILE
1	C	2543	LEU
1	C	2554	ARG
1	C	2558	LYS
1	C	2566	ARG
1	C	2571	LEU
1	C	2576	MET
1	C	2580	ILE
1	C	2581	VAL
1	C	2596	LEU
1	C	2608	LYS
1	C	2616	LEU
1	C	2618	ARG
1	C	2619	ASP
1	C	2624	LYS
1	C	2632	ILE
1	C	2639	TRP
1	C	2642	LEU
1	C	2646	VAL
1	C	2649	LYS
1	C	2651	LYS
1	C	2665	GLU
1	C	2667	ILE
1	C	2670	ARG
1	C	2679	ARG
1	C	2683	LEU
1	C	2698	LEU
1	C	2705	THR
1	C	2712	LEU
1	C	2715	GLN
1	C	2716	LEU
1	C	2718	GLU
1	C	2719	LEU

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Mol	Chain	Res	Type
1	C	2720	LYS
1	C	2722	GLN
1	C	2724	THR
1	C	2726	GLN
1	C	2727	ARG
1	C	2730	LYS
1	C	2732	ARG
1	C	2733	ILE
1	C	2735	LEU
1	C	2738	HIS
1	B	74	LYS
1	B	77	LYS
1	B	78	PRO
1	B	81	ASN
1	B	85	ASP
1	B	88	LEU
1	B	89	LEU
1	B	90	ASN
1	B	92	LEU
1	B	94	HIS
1	B	97	ASP
1	B	99	GLU
1	B	102	GLN
1	B	105	THR
1	B	108	ARG
1	B	265	ARG
1	B	270	GLN
1	B	441	ARG
1	B	443	LEU
1	B	452	VAL
1	B	501	LYS
1	B	509	LEU
1	B	515	ILE
1	B	516	LEU
1	B	517	LYS
1	B	519	ILE
1	B	523	LEU
1	B	526	PRO
1	B	527	PHE
1	B	546	HIS
1	B	549	PHE
1	B	553	CYS

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Mol	Chain	Res	Type
1	B	554	ARG
1	B	556	CYS
1	B	562	HIS
1	B	572	GLU
1	B	580	PHE
1	B	581	MET
1	B	582	GLN
1	B	584	GLN
1	B	2184	GLU
1	B	2187	GLU
1	B	2198	ILE
1	B	2201	LEU
1	B	2203	ARG
1	B	2204	THR
1	B	2208	ILE
1	B	2221	LYS
1	B	2225	LEU
1	B	2240	ILE
1	B	2241	ASN
1	B	2245	LEU
1	B	2248	GLU
1	B	2250	LEU
1	B	2251	PHE
1	B	2254	MET
1	B	2267	TYR
1	B	2269	CYS
1	B	2275	PHE
1	B	2279	ILE
1	B	2286	LEU
1	B	2289	LEU
1	B	2291	VAL
1	B	2341	ILE
1	B	2344	LEU
1	B	2354	LEU
1	B	2356	LEU
1	B	2357	LEU
1	B	2360	PHE
1	B	2363	CYS
1	B	2366	ILE
1	B	2370	MET
1	B	2372	PHE
1	B	2378	THR

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Mol	Chain	Res	Type
1	B	2380	THR
1	B	2387	VAL
1	B	2388	LEU
1	B	2393	LEU
1	B	2396	LEU
1	B	2397	LEU
1	B	2399	LEU
1	B	2401	ILE
1	B	2402	CYS
1	B	2406	LEU
1	B	2407	PHE
1	B	2408	VAL
1	B	2409	HIS
1	B	2415	LEU
1	B	2418	PHE
1	B	2421	VAL
1	B	2422	TYR
1	B	2423	ARG
1	B	2428	LEU
1	B	2430	VAL
1	B	2434	VAL
1	B	2441	ILE
1	B	2447	LEU
1	B	2461	LEU
1	B	2524	LYS
1	B	2531	LEU
1	B	2535	ILE
1	B	2543	LEU
1	B	2554	ARG
1	B	2558	LYS
1	B	2566	ARG
1	B	2571	LEU
1	B	2576	MET
1	B	2580	ILE
1	B	2581	VAL
1	B	2596	LEU
1	B	2608	LYS
1	B	2616	LEU
1	B	2618	ARG
1	B	2619	ASP
1	B	2624	LYS
1	B	2632	ILE

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Mol	Chain	Res	Type
1	B	2639	TRP
1	B	2642	LEU
1	B	2646	VAL
1	B	2649	LYS
1	B	2651	LYS
1	B	2665	GLU
1	B	2667	ILE
1	B	2670	ARG
1	B	2679	ARG
1	B	2683	LEU
1	B	2698	LEU
1	B	2705	THR
1	B	2712	LEU
1	B	2715	GLN
1	B	2716	LEU
1	B	2718	GLU
1	B	2719	LEU
1	B	2720	LYS
1	B	2722	GLN
1	B	2724	THR
1	B	2726	GLN
1	B	2727	ARG
1	B	2730	LYS
1	B	2732	ARG
1	B	2733	ILE
1	B	2735	LEU
1	B	2738	HIS
1	D	74	LYS
1	D	77	LYS
1	D	78	PRO
1	D	81	ASN
1	D	85	ASP
1	D	88	LEU
1	D	89	LEU
1	D	90	ASN
1	D	92	LEU
1	D	94	HIS
1	D	97	ASP
1	D	99	GLU
1	D	102	GLN
1	D	105	THR
1	D	108	ARG

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Mol	Chain	Res	Type
1	D	265	ARG
1	D	270	GLN
1	D	441	ARG
1	D	443	LEU
1	D	452	VAL
1	D	501	LYS
1	D	509	LEU
1	D	515	ILE
1	D	516	LEU
1	D	517	LYS
1	D	519	ILE
1	D	523	LEU
1	D	526	PRO
1	D	527	PHE
1	D	546	HIS
1	D	549	PHE
1	D	553	CYS
1	D	554	ARG
1	D	556	CYS
1	D	562	HIS
1	D	572	GLU
1	D	580	PHE
1	D	581	MET
1	D	582	GLN
1	D	584	GLN
1	D	2184	GLU
1	D	2187	GLU
1	D	2198	ILE
1	D	2201	LEU
1	D	2203	ARG
1	D	2204	THR
1	D	2208	ILE
1	D	2221	LYS
1	D	2225	LEU
1	D	2240	ILE
1	D	2241	ASN
1	D	2245	LEU
1	D	2248	GLU
1	D	2250	LEU
1	D	2251	PHE
1	D	2254	MET
1	D	2267	TYR

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Mol	Chain	Res	Type
1	D	2269	CYS
1	D	2275	PHE
1	D	2279	ILE
1	D	2286	LEU
1	D	2289	LEU
1	D	2291	VAL
1	D	2341	ILE
1	D	2344	LEU
1	D	2354	LEU
1	D	2356	LEU
1	D	2357	LEU
1	D	2360	PHE
1	D	2363	CYS
1	D	2366	ILE
1	D	2370	MET
1	D	2372	PHE
1	D	2378	THR
1	D	2380	THR
1	D	2387	VAL
1	D	2388	LEU
1	D	2393	LEU
1	D	2396	LEU
1	D	2397	LEU
1	D	2399	LEU
1	D	2401	ILE
1	D	2402	CYS
1	D	2406	LEU
1	D	2407	PHE
1	D	2408	VAL
1	D	2409	HIS
1	D	2415	LEU
1	D	2418	PHE
1	D	2421	VAL
1	D	2422	TYR
1	D	2423	ARG
1	D	2428	LEU
1	D	2430	VAL
1	D	2434	VAL
1	D	2441	ILE
1	D	2447	LEU
1	D	2461	LEU
1	D	2524	LYS

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Mol	Chain	Res	Type
1	D	2531	LEU
1	D	2535	ILE
1	D	2543	LEU
1	D	2554	ARG
1	D	2558	LYS
1	D	2566	ARG
1	D	2571	LEU
1	D	2576	MET
1	D	2580	ILE
1	D	2581	VAL
1	D	2596	LEU
1	D	2608	LYS
1	D	2616	LEU
1	D	2618	ARG
1	D	2619	ASP
1	D	2624	LYS
1	D	2632	ILE
1	D	2639	TRP
1	D	2642	LEU
1	D	2646	VAL
1	D	2649	LYS
1	D	2651	LYS
1	D	2665	GLU
1	D	2667	ILE
1	D	2670	ARG
1	D	2679	ARG
1	D	2683	LEU
1	D	2698	LEU
1	D	2705	THR
1	D	2712	LEU
1	D	2715	GLN
1	D	2716	LEU
1	D	2718	GLU
1	D	2719	LEU
1	D	2720	LYS
1	D	2722	GLN
1	D	2724	THR
1	D	2726	GLN
1	D	2727	ARG
1	D	2730	LYS
1	D	2732	ARG
1	D	2733	ILE

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Mol	Chain	Res	Type
1	D	2735	LEU
1	D	2738	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (97) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	69	GLN
1	A	71	GLN
1	A	81	ASN
1	A	102	GLN
1	A	107	ASN
1	A	185	ASN
1	A	194	HIS
1	A	198	HIS
1	A	203	ASN
1	A	207	ASN
1	A	261	HIS
1	A	270	GLN
1	A	288	GLN
1	A	312	HIS
1	A	492	GLN
1	A	564	GLN
1	A	565	GLN
1	A	571	GLN
1	A	582	GLN
1	A	2361	ASN
1	A	2437	ASN
1	A	2637	ASN
1	A	2640	HIS
1	A	2711	ASN
1	A	2722	GLN
1	C	69	GLN
1	C	71	GLN
1	C	81	ASN
1	C	102	GLN
1	C	107	ASN
1	C	185	ASN
1	C	194	HIS
1	C	198	HIS
1	C	203	ASN
1	C	261	HIS
1	C	270	GLN

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Mol	Chain	Res	Type
1	C	312	HIS
1	C	492	GLN
1	C	564	GLN
1	C	565	GLN
1	C	571	GLN
1	C	582	GLN
1	C	2361	ASN
1	C	2437	ASN
1	C	2637	ASN
1	C	2640	HIS
1	C	2711	ASN
1	C	2722	GLN
1	B	69	GLN
1	B	71	GLN
1	B	81	ASN
1	B	102	GLN
1	B	107	ASN
1	B	129	ASN
1	B	185	ASN
1	B	194	HIS
1	B	198	HIS
1	B	203	ASN
1	B	261	HIS
1	B	270	GLN
1	B	312	HIS
1	B	492	GLN
1	B	564	GLN
1	B	565	GLN
1	B	571	GLN
1	B	582	GLN
1	B	2361	ASN
1	B	2437	ASN
1	B	2583	ASN
1	B	2637	ASN
1	B	2640	HIS
1	B	2715	GLN
1	B	2722	GLN
1	D	69	GLN
1	D	71	GLN
1	D	81	ASN
1	D	102	GLN
1	D	107	ASN

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Mol	Chain	Res	Type
1	D	185	ASN
1	D	194	HIS
1	D	198	HIS
1	D	203	ASN
1	D	261	HIS
1	D	270	GLN
1	D	312	HIS
1	D	492	GLN
1	D	564	GLN
1	D	565	GLN
1	D	571	GLN
1	D	582	GLN
1	D	2272	ASN
1	D	2361	ASN
1	D	2437	ASN
1	D	2637	ASN
1	D	2640	HIS
1	D	2711	ASN
1	D	2722	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

4 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the

expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	JYP	A	2801	-	45,45,45	2.41	10 (22%)	68,70,70	2.42	11 (16%)
2	JYP	C	2801	-	45,45,45	2.41	10 (22%)	68,70,70	2.42	11 (16%)
2	JYP	D	2801	-	45,45,45	2.42	10 (22%)	68,70,70	2.43	11 (16%)
2	JYP	B	2801	-	45,45,45	2.41	10 (22%)	68,70,70	2.42	11 (16%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	JYP	A	2801	-	-	13/27/63/63	0/4/4/4
2	JYP	C	2801	-	-	13/27/63/63	0/4/4/4
2	JYP	D	2801	-	-	13/27/63/63	0/4/4/4
2	JYP	B	2801	-	-	13/27/63/63	0/4/4/4

All (40) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	2801	JYP	C3-N4	8.68	1.54	1.39
2	B	2801	JYP	C3-N4	8.68	1.54	1.39
2	A	2801	JYP	C3-N4	8.65	1.54	1.39
2	C	2801	JYP	C3-N4	8.64	1.54	1.39
2	D	2801	JYP	C4-N3	4.95	1.46	1.34
2	A	2801	JYP	C4-N3	4.94	1.46	1.34
2	B	2801	JYP	C4-N3	4.92	1.46	1.34
2	C	2801	JYP	C4-N3	4.90	1.46	1.34
2	D	2801	JYP	P3-O15	4.85	1.68	1.59
2	C	2801	JYP	P1-O6	4.85	1.68	1.59
2	D	2801	JYP	P1-O6	4.83	1.68	1.59
2	A	2801	JYP	P1-O6	4.82	1.68	1.59
2	C	2801	JYP	P3-O15	4.82	1.68	1.59
2	B	2801	JYP	P3-O15	4.82	1.68	1.59
2	A	2801	JYP	P3-O15	4.81	1.68	1.59
2	B	2801	JYP	P1-O6	4.80	1.67	1.59
2	C	2801	JYP	C2-N5	-4.64	1.28	1.37
2	A	2801	JYP	C2-N5	-4.64	1.28	1.37
2	D	2801	JYP	C2-N5	-4.63	1.28	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2801	JYP	C5-N5	-4.61	1.29	1.37
2	B	2801	JYP	C2-N5	-4.61	1.28	1.37
2	D	2801	JYP	C5-N5	-4.61	1.29	1.37
2	A	2801	JYP	C5-N5	-4.57	1.29	1.37
2	C	2801	JYP	C5-N5	-4.52	1.29	1.37
2	C	2801	JYP	C5-N4	3.58	1.38	1.31
2	A	2801	JYP	C5-N4	3.58	1.38	1.31
2	B	2801	JYP	C5-N4	3.58	1.38	1.31
2	D	2801	JYP	C5-N4	3.55	1.38	1.31
2	D	2801	JYP	P2-O10	3.51	1.65	1.59
2	B	2801	JYP	P2-O10	3.48	1.65	1.59
2	A	2801	JYP	P2-O10	3.47	1.65	1.59
2	C	2801	JYP	P2-O10	3.46	1.65	1.59
2	A	2801	JYP	C8-C7	-3.38	1.46	1.53
2	C	2801	JYP	C8-C7	-3.38	1.46	1.53
2	B	2801	JYP	C8-C7	-3.36	1.46	1.53
2	D	2801	JYP	C8-C7	-3.35	1.46	1.53
2	C	2801	JYP	O1-C6	2.51	1.47	1.42
2	A	2801	JYP	O1-C6	2.47	1.47	1.42
2	B	2801	JYP	O1-C6	2.47	1.47	1.42
2	D	2801	JYP	O1-C6	2.46	1.47	1.42

All (44) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	2801	JYP	C2-N5-C5	13.70	120.12	105.74
2	B	2801	JYP	C2-N5-C5	13.69	120.11	105.74
2	A	2801	JYP	C2-N5-C5	13.68	120.11	105.74
2	C	2801	JYP	C2-N5-C5	13.66	120.08	105.74
2	D	2801	JYP	N2-C1-N1	-5.61	120.09	128.58
2	B	2801	JYP	N2-C1-N1	-5.61	120.10	128.58
2	A	2801	JYP	N2-C1-N1	-5.60	120.10	128.58
2	C	2801	JYP	N2-C1-N1	-5.59	120.12	128.58
2	D	2801	JYP	N1-C2-N5	4.40	134.65	127.17
2	B	2801	JYP	N1-C2-N5	4.39	134.63	127.17
2	A	2801	JYP	N1-C2-N5	4.38	134.62	127.17
2	C	2801	JYP	N1-C2-N5	4.37	134.59	127.17
2	D	2801	JYP	C3-C2-N1	-4.27	120.84	126.72
2	B	2801	JYP	C3-C2-N1	-4.25	120.87	126.72
2	A	2801	JYP	C3-C2-N1	-4.24	120.87	126.72
2	C	2801	JYP	C3-C2-N1	-4.24	120.88	126.72
2	C	2801	JYP	N5-C5-N4	-4.23	107.94	113.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2801	JYP	N5-C5-N4	-4.23	107.94	113.94
2	D	2801	JYP	N5-C5-N4	-4.21	107.96	113.94
2	B	2801	JYP	N5-C5-N4	-4.20	107.98	113.94
2	C	2801	JYP	C6-N5-C5	-4.15	117.89	127.09
2	A	2801	JYP	C6-N5-C5	-4.14	117.91	127.09
2	B	2801	JYP	C6-N5-C5	-4.13	117.94	127.09
2	D	2801	JYP	C6-N5-C5	-4.12	117.94	127.09
2	D	2801	JYP	C2-C3-N4	-3.88	106.15	110.58
2	A	2801	JYP	C2-C3-N4	-3.86	106.17	110.58
2	B	2801	JYP	C2-C3-N4	-3.85	106.18	110.58
2	C	2801	JYP	C2-C3-N4	-3.84	106.19	110.58
2	D	2801	JYP	C2-N5-C6	-3.74	117.89	126.63
2	B	2801	JYP	C2-N5-C6	-3.73	117.92	126.63
2	A	2801	JYP	C2-N5-C6	-3.72	117.94	126.63
2	C	2801	JYP	C2-N5-C6	-3.70	117.98	126.63
2	C	2801	JYP	C11-O3-C8	-3.56	109.53	117.98
2	B	2801	JYP	C11-O3-C8	-3.56	109.53	117.98
2	A	2801	JYP	C11-O3-C8	-3.55	109.56	117.98
2	D	2801	JYP	C11-O3-C8	-3.55	109.56	117.98
2	B	2801	JYP	C1-N1-C2	2.88	118.88	111.83
2	C	2801	JYP	C1-N1-C2	2.88	118.87	111.83
2	A	2801	JYP	C1-N1-C2	2.88	118.87	111.83
2	D	2801	JYP	C1-N1-C2	2.88	118.87	111.83
2	B	2801	JYP	C7-C6-N5	-2.50	109.64	113.75
2	D	2801	JYP	C7-C6-N5	-2.49	109.66	113.75
2	A	2801	JYP	C7-C6-N5	-2.48	109.67	113.75
2	C	2801	JYP	C7-C6-N5	-2.45	109.71	113.75

There are no chirality outliers.

All (52) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2801	JYP	O1-C6-N5-C5
2	A	2801	JYP	C8-C7-O15-P3
2	C	2801	JYP	O1-C6-N5-C5
2	C	2801	JYP	C8-C7-O15-P3
2	B	2801	JYP	O1-C6-N5-C5
2	B	2801	JYP	C8-C7-O15-P3
2	D	2801	JYP	O1-C6-N5-C5
2	D	2801	JYP	C8-C7-O15-P3
2	A	2801	JYP	O4-C15-C16-O5
2	C	2801	JYP	O4-C15-C16-O5

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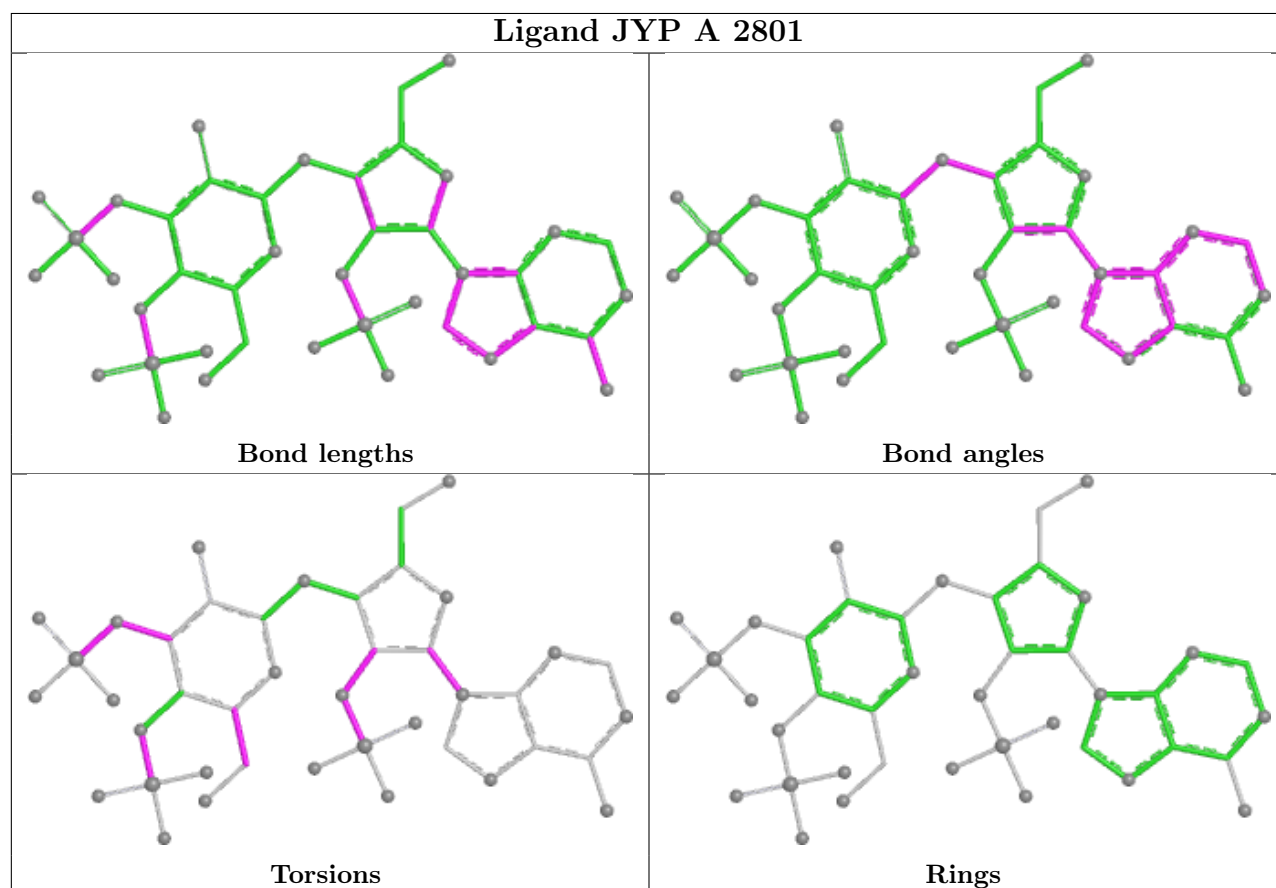
Mol	Chain	Res	Type	Atoms
2	B	2801	JYP	O4-C15-C16-O5
2	D	2801	JYP	O4-C15-C16-O5
2	A	2801	JYP	C14-C15-C16-O5
2	C	2801	JYP	C14-C15-C16-O5
2	B	2801	JYP	C14-C15-C16-O5
2	D	2801	JYP	C14-C15-C16-O5
2	A	2801	JYP	C12-C13-O10-P2
2	C	2801	JYP	C12-C13-O10-P2
2	B	2801	JYP	C12-C13-O10-P2
2	D	2801	JYP	C12-C13-O10-P2
2	A	2801	JYP	C14-C13-O10-P2
2	C	2801	JYP	C14-C13-O10-P2
2	B	2801	JYP	C14-C13-O10-P2
2	D	2801	JYP	C14-C13-O10-P2
2	A	2801	JYP	C13-O10-P2-O13
2	C	2801	JYP	C13-O10-P2-O13
2	B	2801	JYP	C13-O10-P2-O13
2	D	2801	JYP	C13-O10-P2-O13
2	A	2801	JYP	C7-C6-N5-C2
2	C	2801	JYP	C7-C6-N5-C2
2	B	2801	JYP	C7-C6-N5-C2
2	D	2801	JYP	C7-C6-N5-C2
2	A	2801	JYP	C14-O6-P1-O8
2	A	2801	JYP	C7-O15-P3-O17
2	C	2801	JYP	C14-O6-P1-O8
2	C	2801	JYP	C7-O15-P3-O17
2	B	2801	JYP	C14-O6-P1-O8
2	B	2801	JYP	C7-O15-P3-O17
2	D	2801	JYP	C14-O6-P1-O8
2	D	2801	JYP	C7-O15-P3-O17
2	A	2801	JYP	O1-C6-N5-C2
2	C	2801	JYP	O1-C6-N5-C2
2	B	2801	JYP	O1-C6-N5-C2
2	D	2801	JYP	O1-C6-N5-C2
2	A	2801	JYP	C14-O6-P1-O7
2	A	2801	JYP	C14-O6-P1-O9
2	C	2801	JYP	C14-O6-P1-O7
2	C	2801	JYP	C14-O6-P1-O9
2	B	2801	JYP	C14-O6-P1-O7
2	B	2801	JYP	C14-O6-P1-O9
2	D	2801	JYP	C14-O6-P1-O7
2	D	2801	JYP	C14-O6-P1-O9

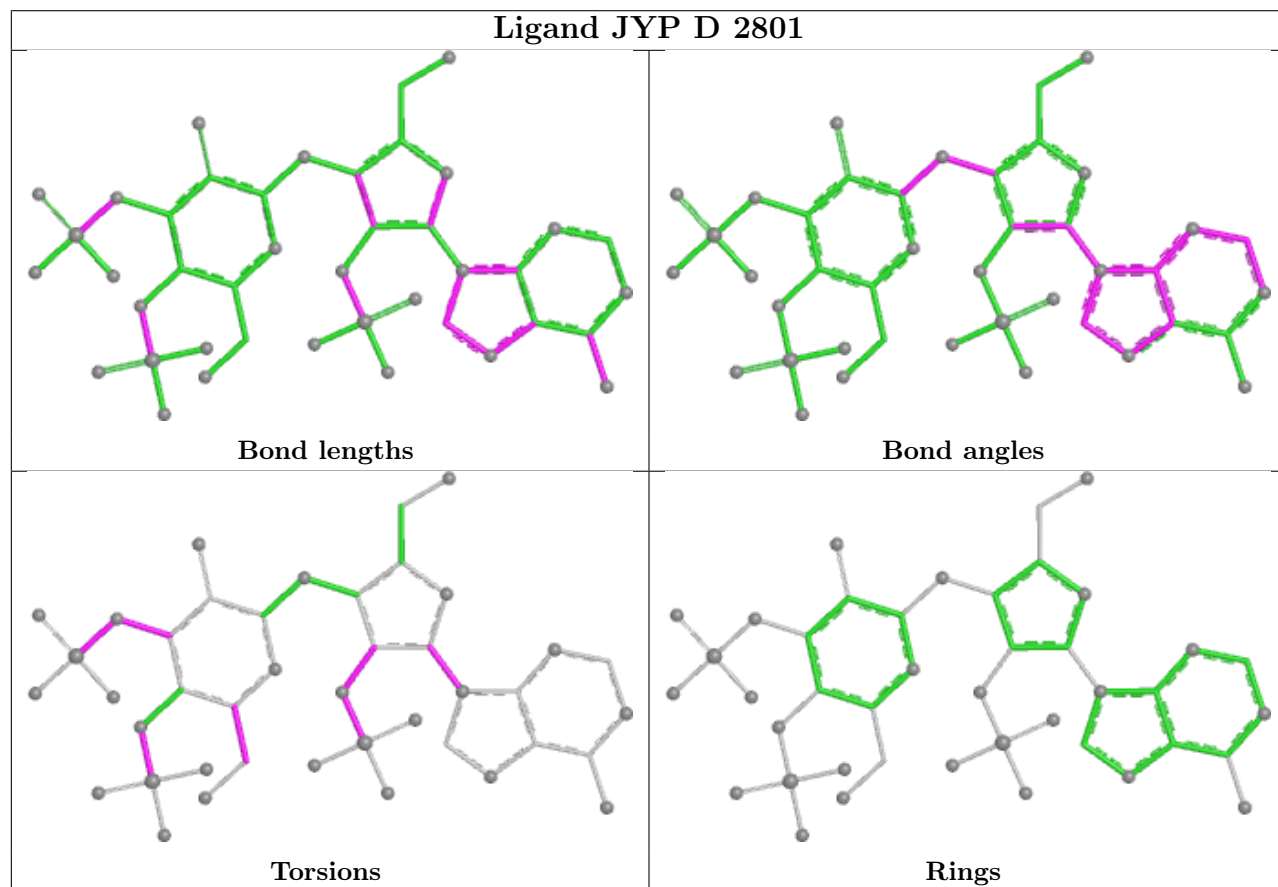
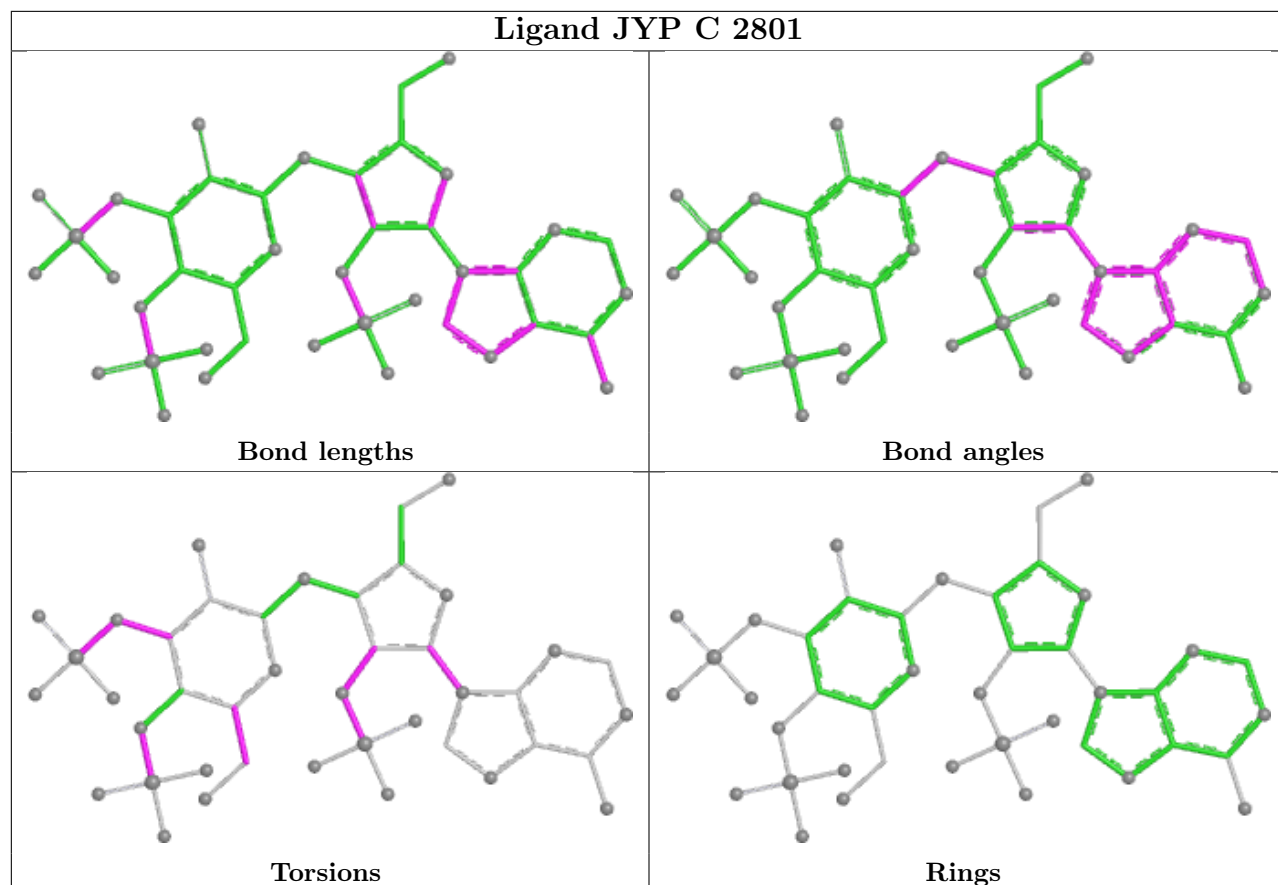
There are no ring outliers.

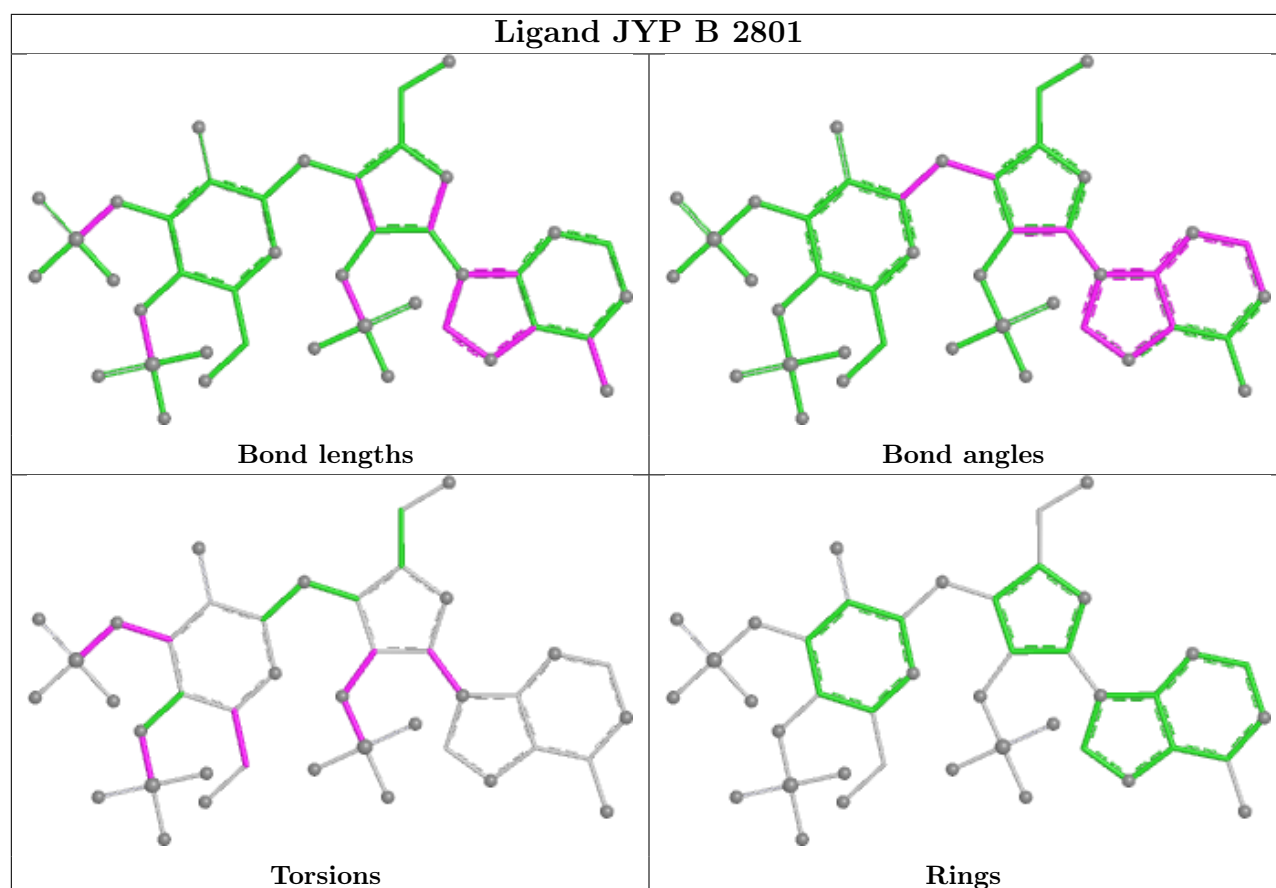
4 monomers are involved in 102 short contacts:

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

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







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

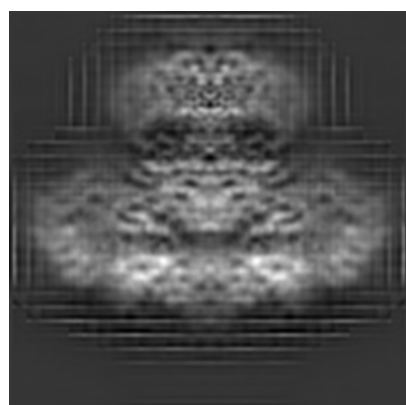
6 Map visualisation [i](#)

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

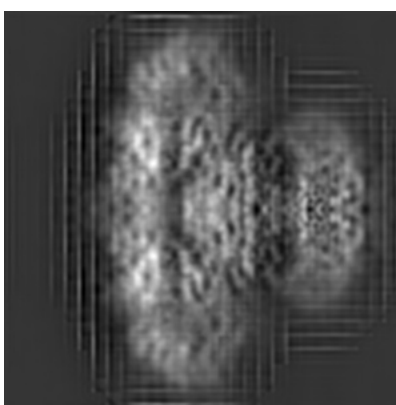
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

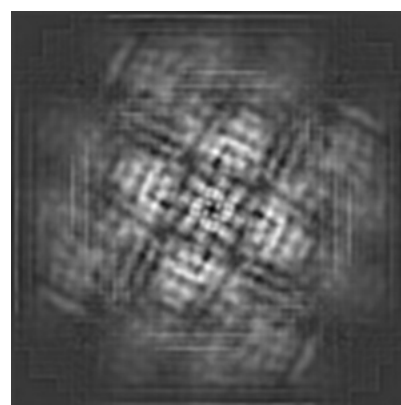
6.1.1 Primary map



X



Y

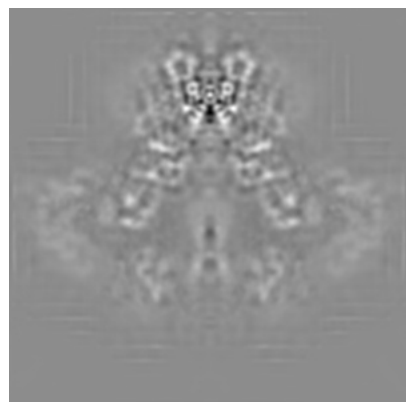


Z

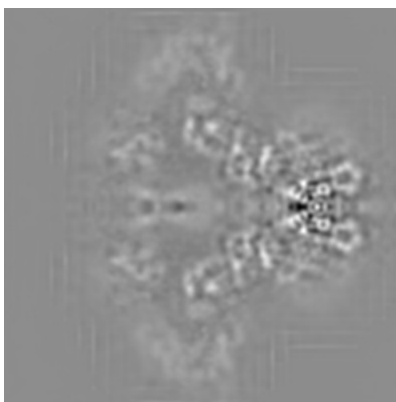
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

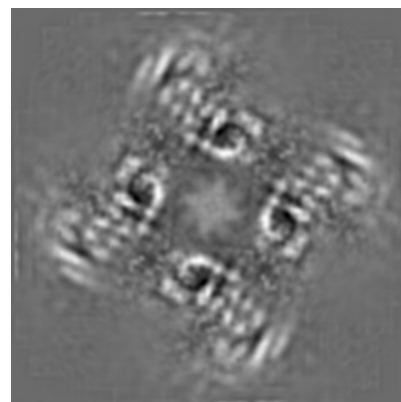
6.2.1 Primary map



X Index: 100



Y Index: 100

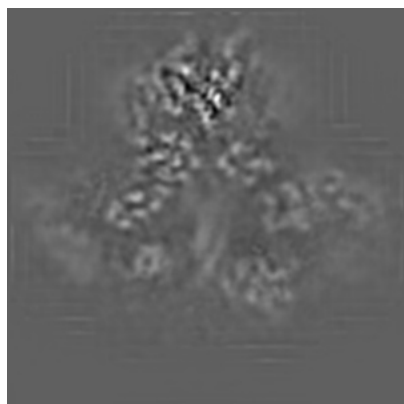


Z Index: 100

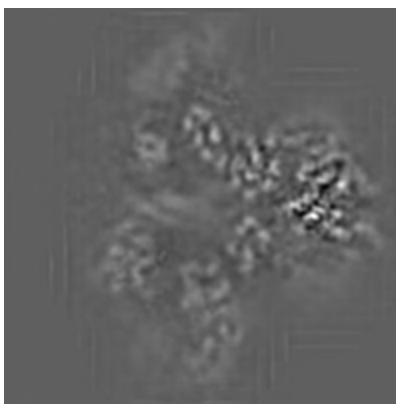
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

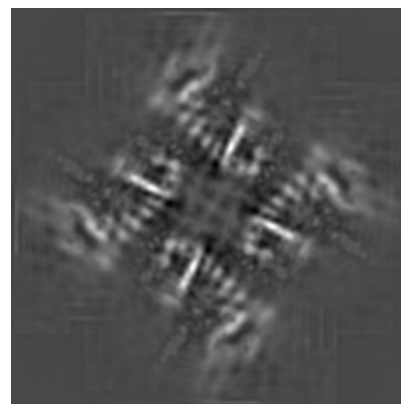
6.3.1 Primary map



X Index: 94



Y Index: 94

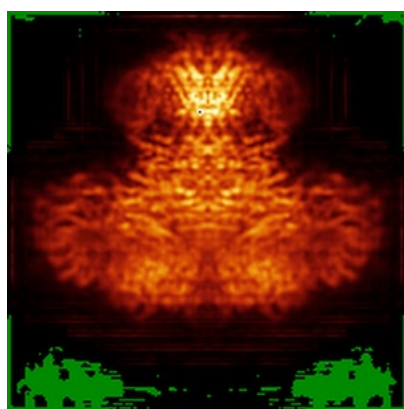


Z Index: 109

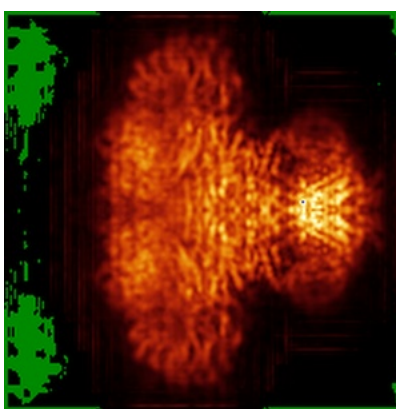
The images above show the largest variance slices of the map in three orthogonal directions.

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

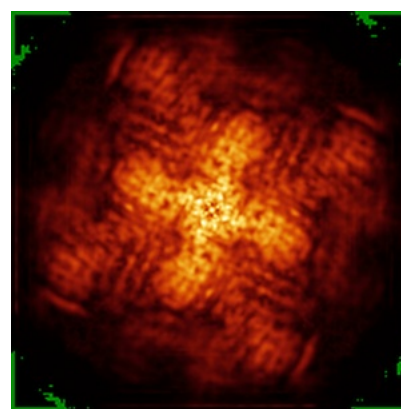
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

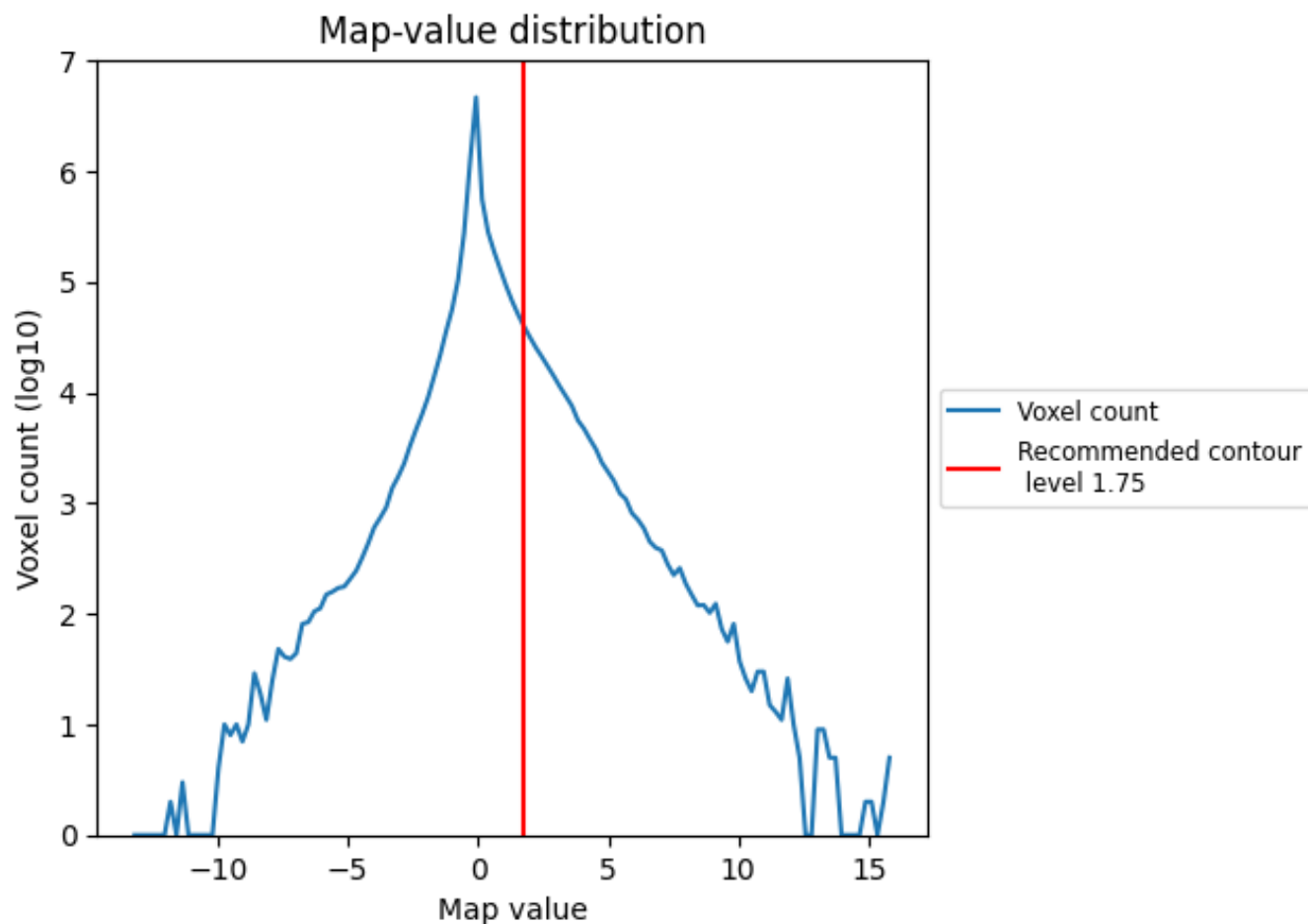
6.6 Mask visualisation

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

7 Map analysis [i](#)

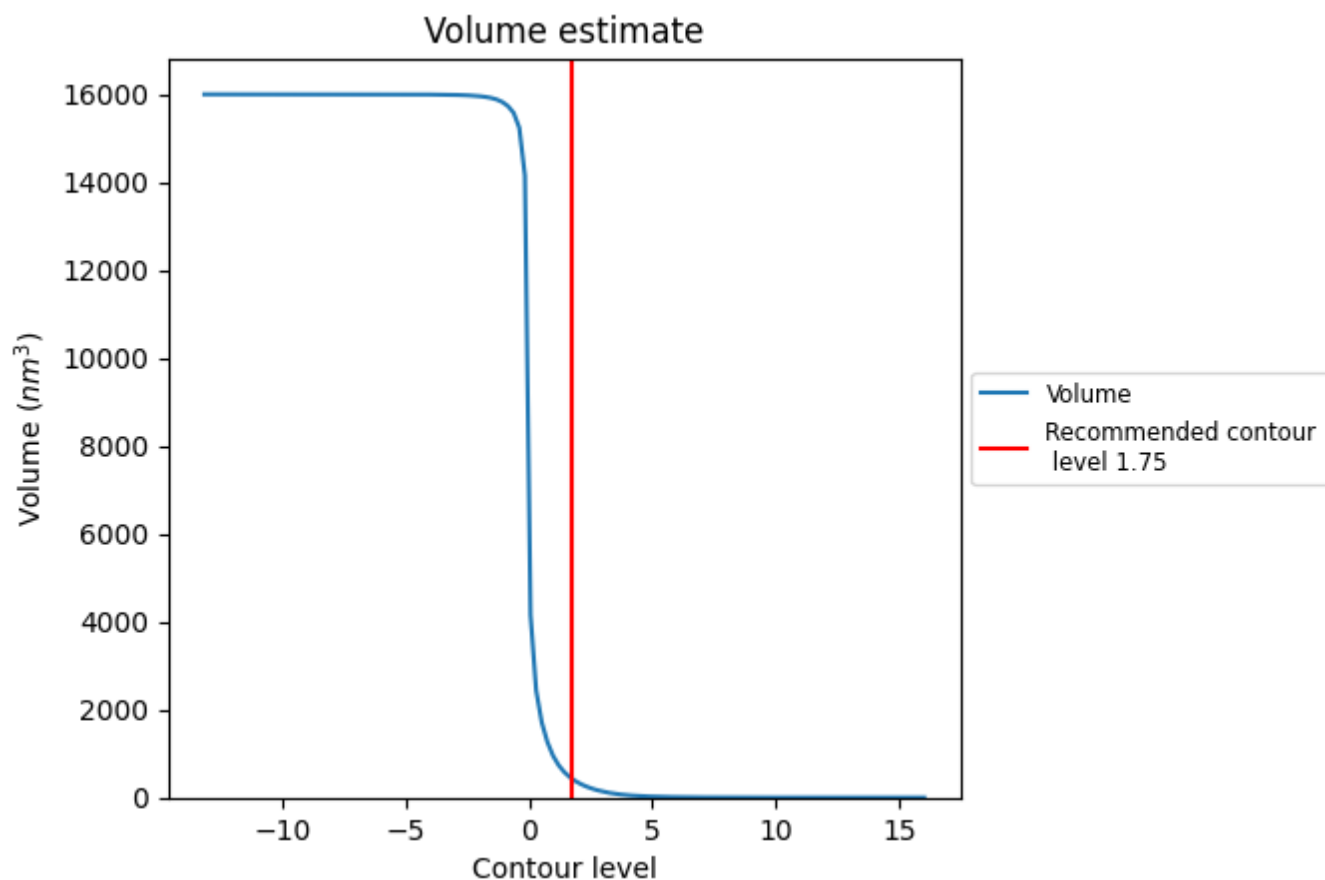
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

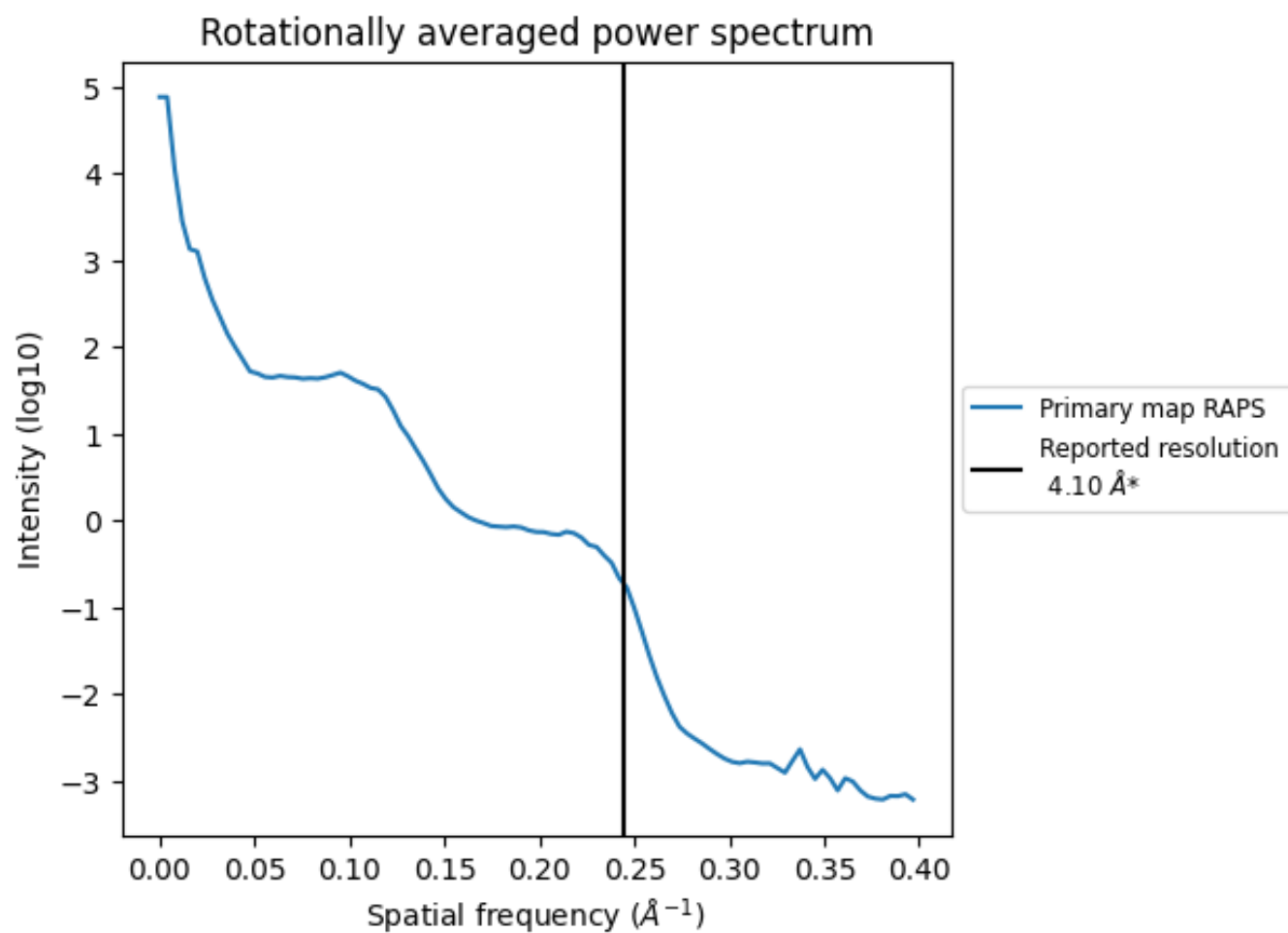
7.2 Volume estimate [i](#)



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

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

7.3 Rotationally averaged power spectrum ⓘ



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

8 Fourier-Shell correlation

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

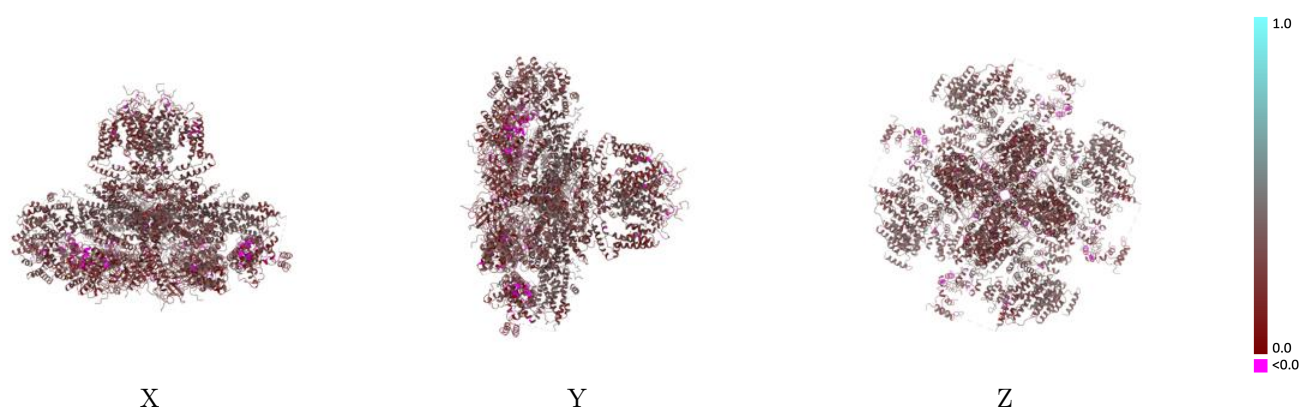
9 Map-model fit [i](#)

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

9.1 Map-model overlay [i](#)

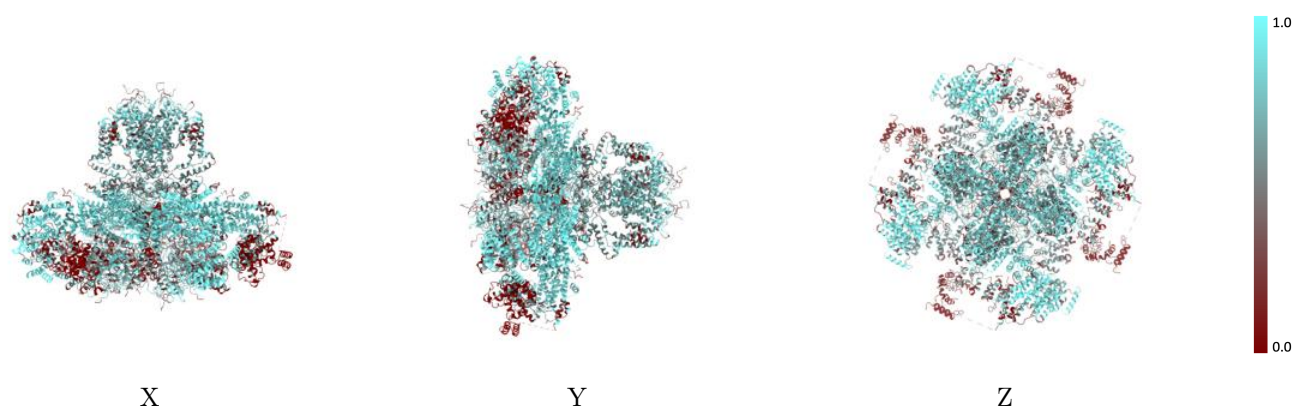
This section was not generated.

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



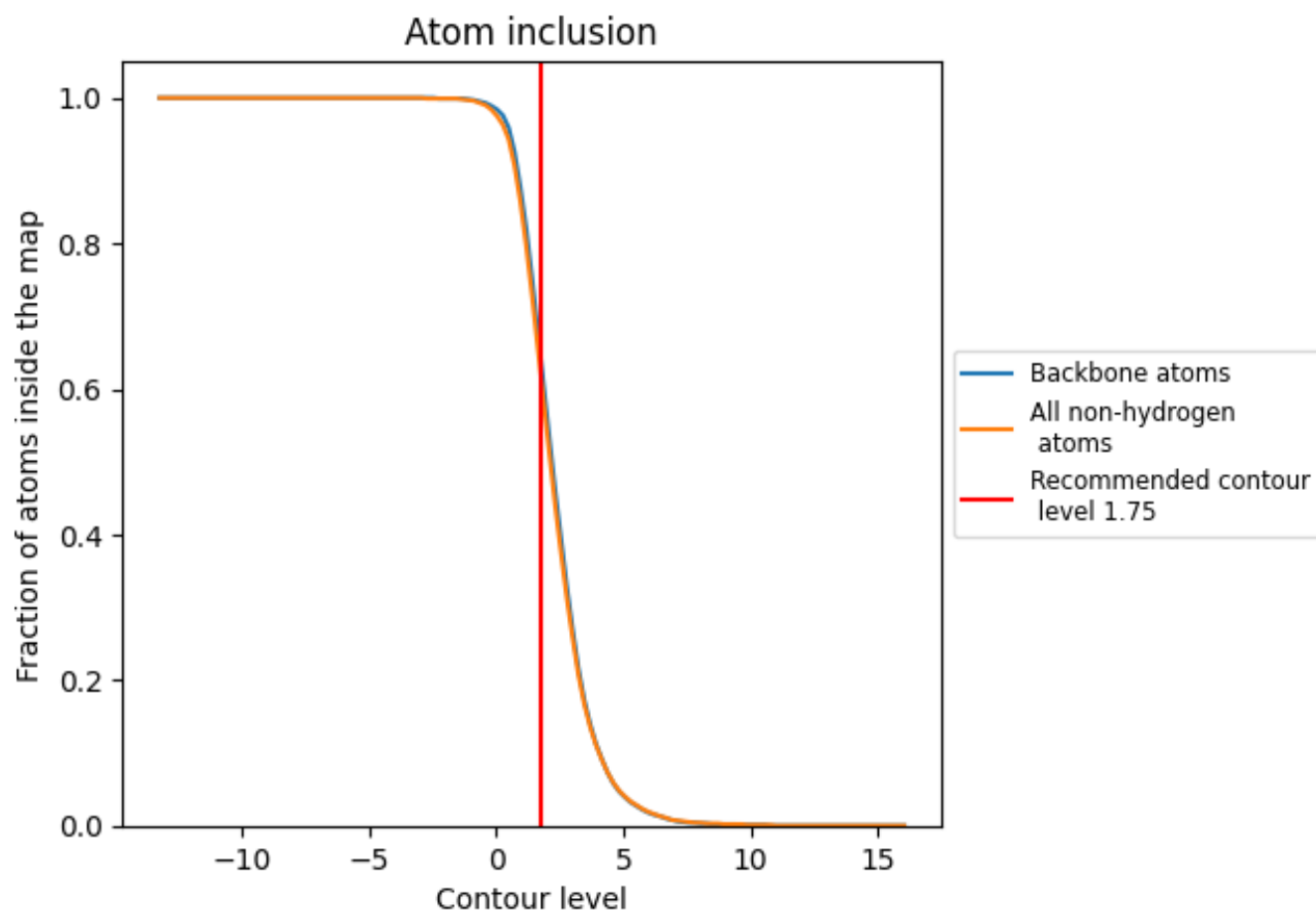
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.4 Atom inclusion [i](#)



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

9.5 Map-model fit summary ⓘ

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

Chain	Atom inclusion	Q-score
All	0.6230	0.2630
A	0.6270	0.2640
B	0.6250	0.2610
C	0.6240	0.2630
D	0.6260	0.2640

