



Full wwPDB EM Validation Report ⓘ

Mar 14, 2026 – 12:27 AM UTC

PDB ID : 7M6A / pdb_00007m6a
EMDB ID : EMD-23692
Title : High resolution structure of the membrane embedded skeletal muscle ryanodine receptor
Authors : Melville, Z.; Kim, K.; Clarke, O.B.; Marks, A.R.
Deposited on : 2021-03-25
Resolution : 3.36 Å(reported)

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

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A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

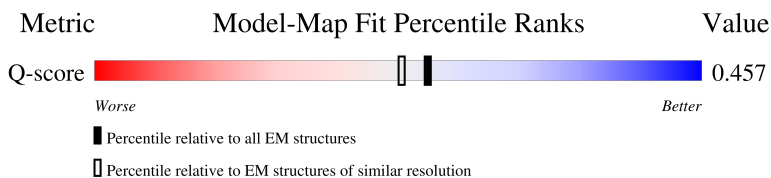
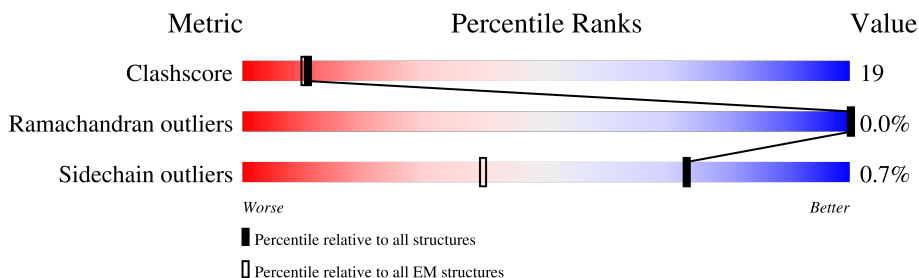
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.36 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	14332 (2.86 - 3.86)

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	F	108	64% 29% 6% ..
1	H	108	64% 29% 6% .
1	J	108	66% 27% 6% .
1	O	108	65% 28% 6% ..

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Mol	Chain	Length	Quality of chain
2	A	5037	11% 59% 26% 15%
2	B	5037	11% 59% 26% 15%
2	G	5037	11% 59% 26% 15%
2	I	5037	11% 59% 26% 15%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 140632 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

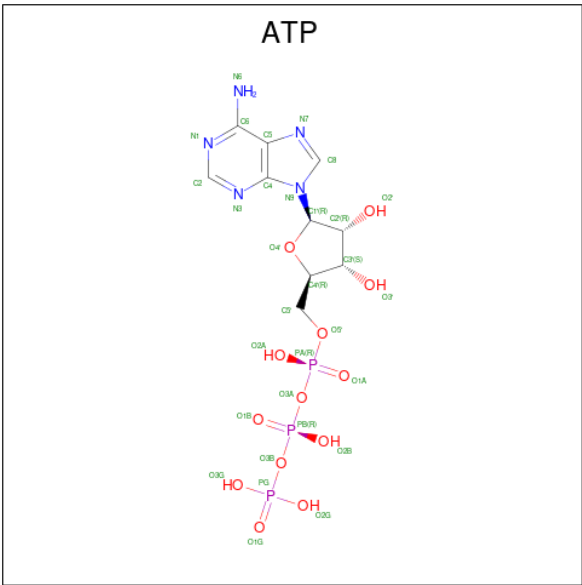
- Molecule 1 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	F	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	J	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	O	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

- Molecule 2 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	4306	Total	C	N	O	S	0	0
			34293	21843	5903	6312	235		
2	G	4306	Total	C	N	O	S	0	0
			34293	21843	5903	6312	235		
2	B	4306	Total	C	N	O	S	0	0
			34293	21843	5903	6312	235		
2	I	4306	Total	C	N	O	S	0	0
			34293	21843	5903	6312	235		

- Molecule 3 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃).



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

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Ca	0
			1	1	
4	G	1	Total	Ca	0
			1	1	
4	B	1	Total	Ca	0
			1	1	
4	I	1	Total	Ca	0
			1	1	

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

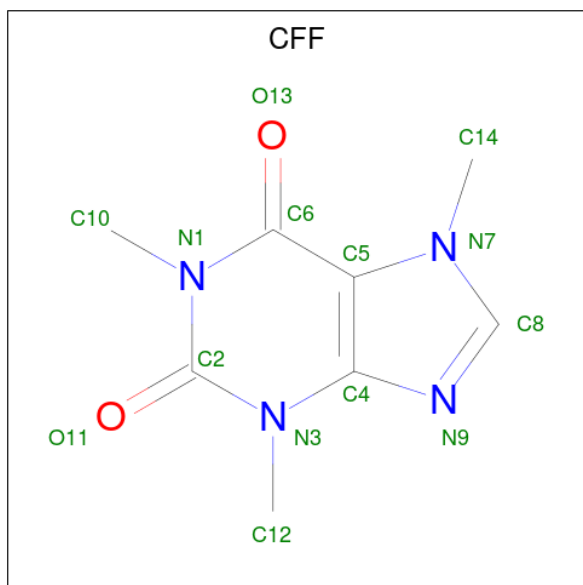
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
5	G	1	Total	Zn	0
			1	1	
5	B	1	Total	Zn	0
			1	1	
5	I	1	Total	Zn	0
			1	1	

- Molecule 6 is CAFFEINE (CCD ID: CFF) (formula: $C_8H_{10}N_4O_2$).

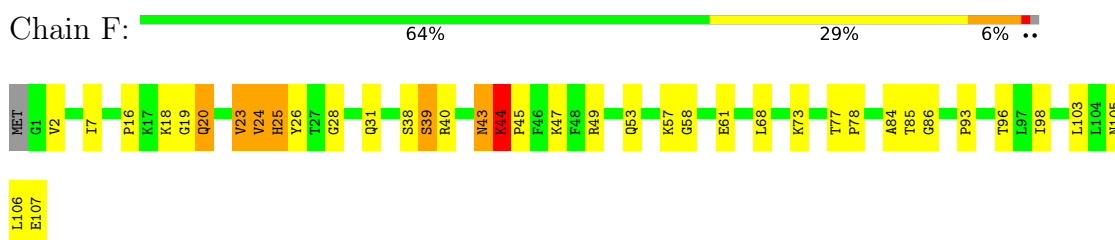


Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	I	1	Total	C	N	O	0
			14	8	4	2	

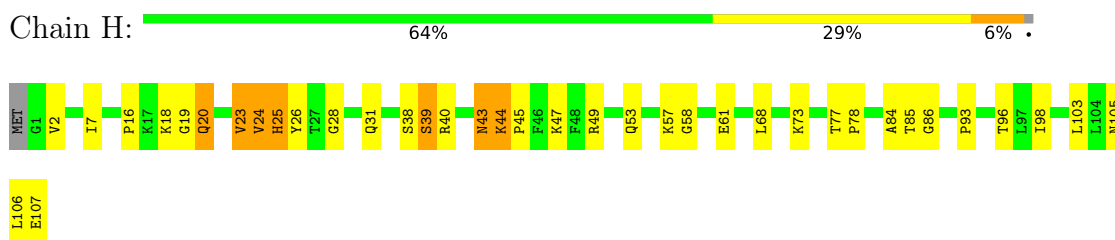
3 Residue-property plots [i](#)

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

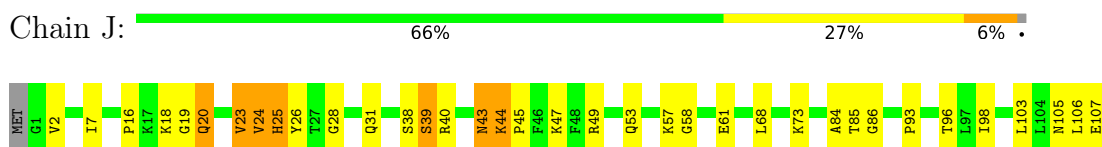
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



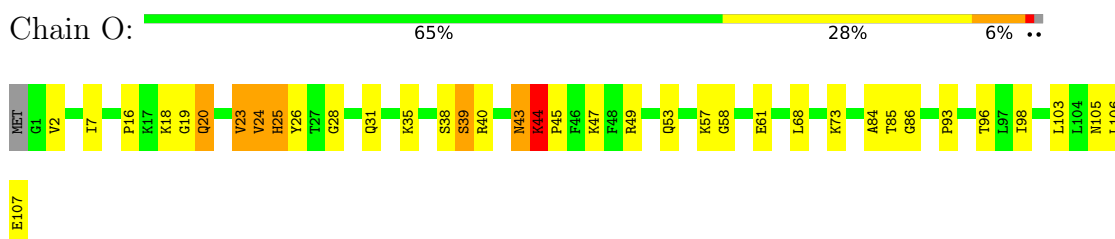
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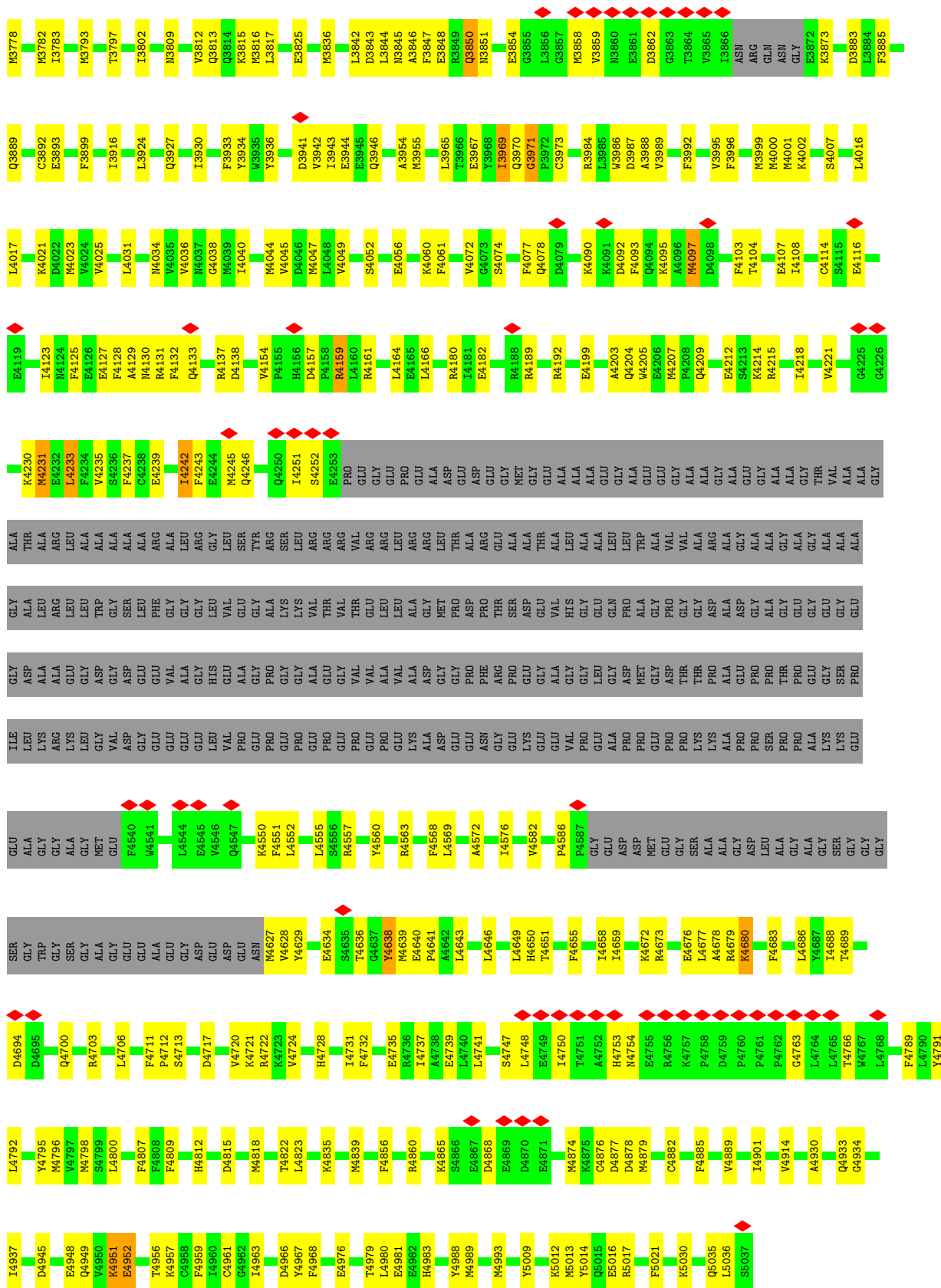


- Molecule 2: Ryanodine receptor 1





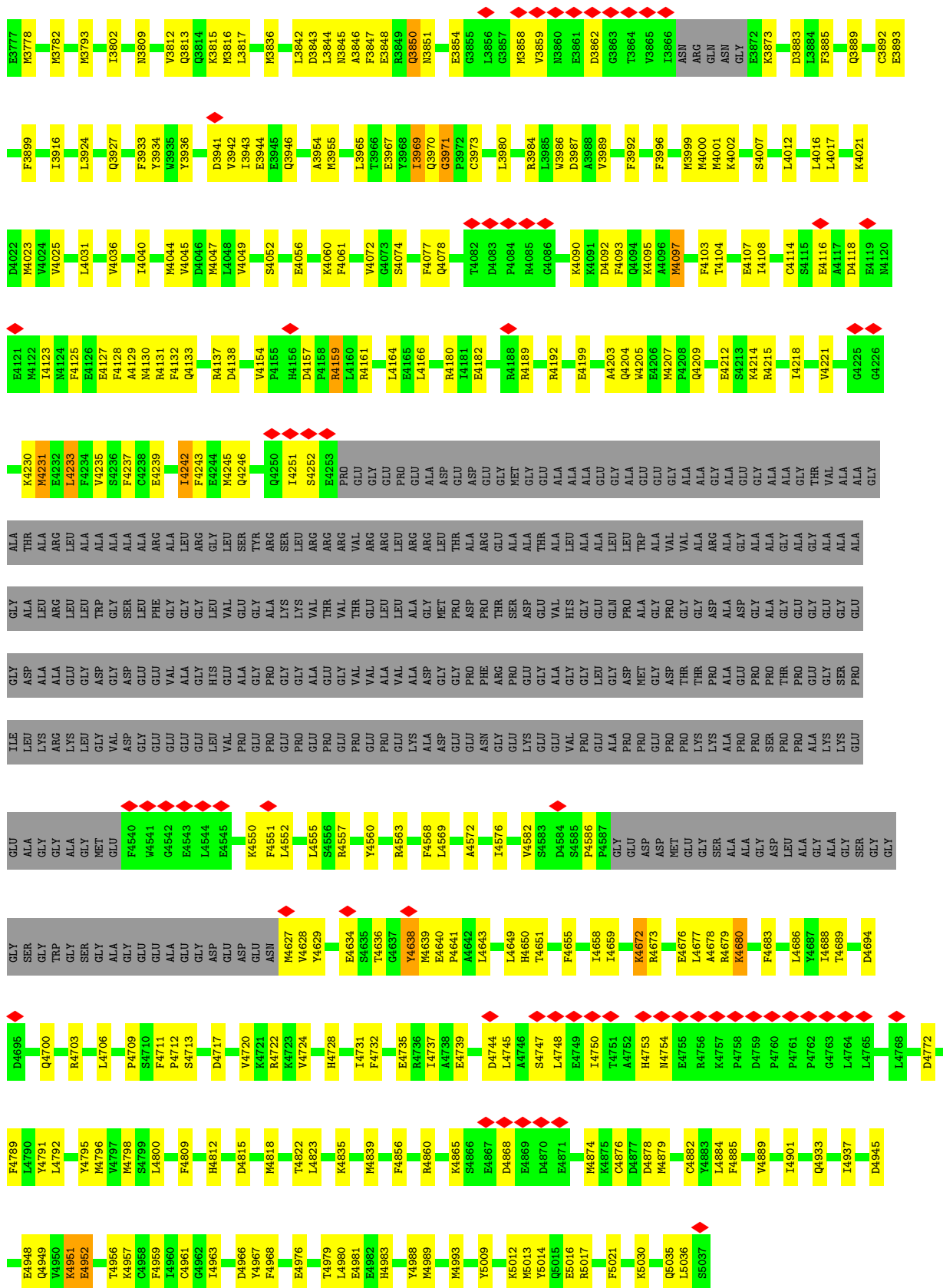










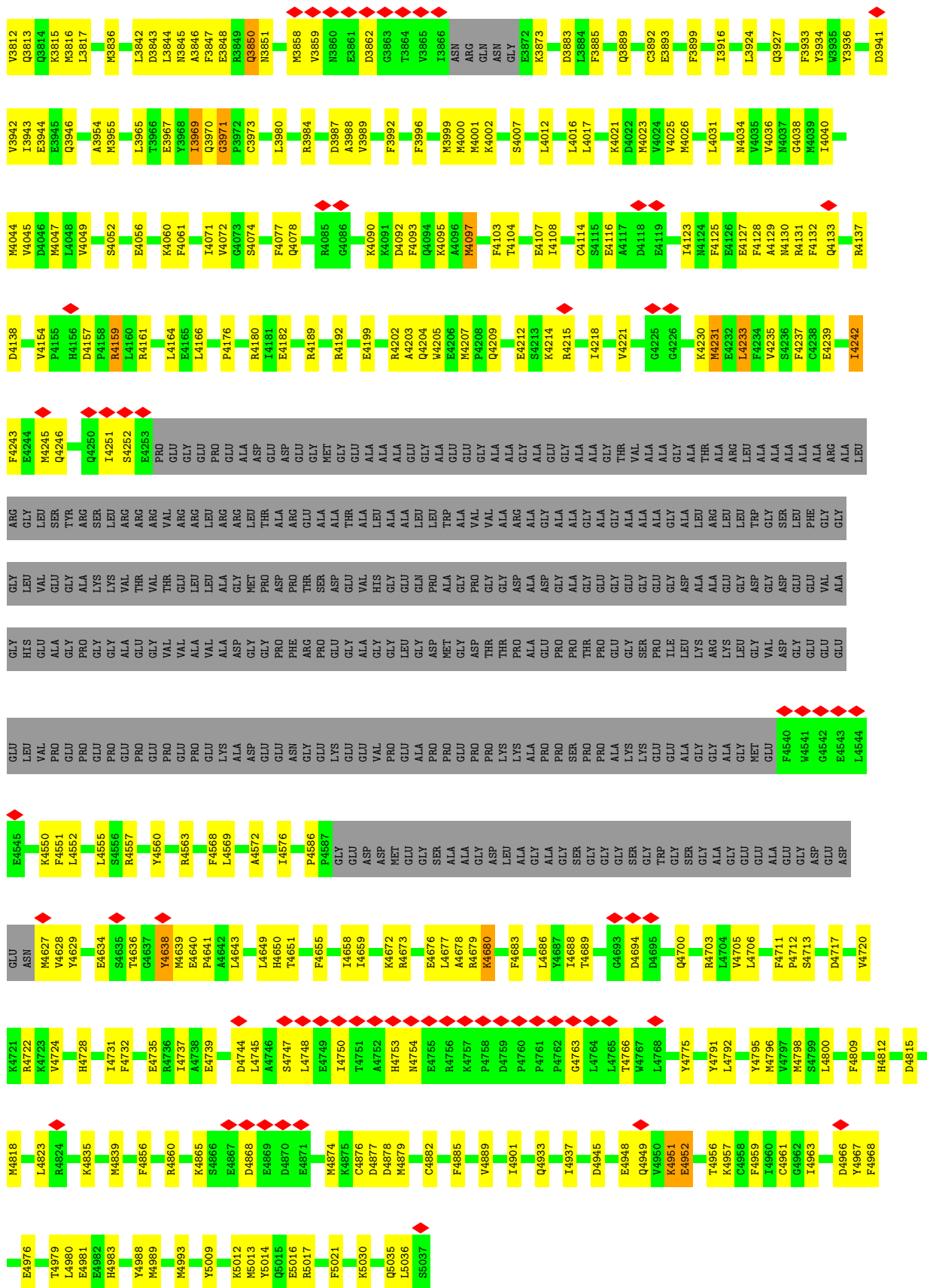


- Molecule 2: Ryanodine receptor 1





K3594	P3695	K3699	Q3700	L3701	V3602	L3603	Y3604	E3607	H3611	P3612	Y3613	A3724	K3614	S3615	LYS	LYS	ALA	ASP	SER	VAL	TRP	HIS	LYS	LEU	L3624	S3625	K3626	Q3627	R3628	G3629	R3630	A3631	V3632	V3633	A3634	C3635	F3636	R3637	S3768	H3771	A3776	E3777	K3778	M3782	K3793	L3802	N3809																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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- Molecule 2: Ryanodine receptor 1



P2739	S2668	R2591	L2519	E2439	E2348	RET	R2136	GLU	L1943	T1872	Y1734	Y1520
V2740	E2669	L2595	H2520	M2440	D2349	Q2268	A2137	GLU	C1947	GLU	P1737	G1525
E2741	E2670	L2595	V2521	Q2444	A2350	G2269	L2155	PRO	D1948	GLU	F1748	L1526
L2742	L2672	Q2599	V2524	Q2444	R2359	L2273	L2165	GLU	N1972	GLU	G1751	M1527
L2743	L2673	E2604	G2525	E2449	R2359	A2277	L2166	THR	Q1973	GLU	ARG	F1549
N2744	T2675	D2605	F2526	R2452	E2362	L2278	L2167	SER	Q1974	GLU	LYS	F1553
V2745	R2676	C2606	L2527	I2453	C2363	S2279	Q2169	LEU	S1975	GLU	GLY	Q1559
I2746	L2678	L2607	D2529	R2458	R2369	N2283	Q2169	SER	S1976	GLU	GLY	Q1559
I2747	F2679	M2608	M2530	R2458	R2369	N2283	M2178	ARG	A1981	GLU	ASN	N1560
P2748	M2680	R2531	R2531	R2458	I2386	K2297	M2178	ARG	R1758	GLU	ALA	V1561
P2749	G2681	Y2613	S2535	P2462	L2377	L2286	I2185	ARG	R1759	GLU	ALA	I1562
E2749	I2682	I2614	L2536	D2465	I2380	L2290	M2186	ARG	F1984	GLU	H1760	A1578
K2750	L2686	R2615	L2536	L2466	E2381	Q2291	F2191	LEU	T1985	GLU	L1771	C1591
L2751	L2686	R2615	D2537	L2466	E2381	Q2291	F2191	LEU	T1985	GLU	L1771	C1591
D2752	L2686	R2615	D2537	L2466	E2381	Q2291	F2191	LEU	T1985	GLU	L1771	C1591
S2753	D2682	M2618	T2538	Q2468	A2383	D2294	F2192	THR	S1987	GLU	S1778	R1594
S2753	Q2693	D2620	A2539	I2469	I2384	L2295	M2198	VAL	A1988	ASP	C1781	L1595
F2754	E2694	H2621	T2540	I2470	I2384	L2295	M2198	VAL	A1989	GLU	F1782	R1607
I2755	L2695	L2622	F2541	S2471	R2385	E2296	M2198	VAL	E1990	GLU	V1783	M1608
N2756	Y2696	L2623	S2542	P2473	I2386	K2297	M2198	VAL	T1991	LYS	L1786	R1619
N2756	R2697	R2624	E2545	P2473	G2394	Y2301	L2201	ARG	A1992	LYS	L1786	R1619
K2757	M2698	R2625	M2546	Q2475	P2395	L2302	G2202	LEU	R1993	GLU	PRO	C1647
F2758	A2699	A2547	A2547	I2476	GLY	L2302	M2203	LYS	R1994	GLU	ALA	L1634
A2759	H2700	N2551	N2551	L2479	VAL	C2305	T2206	LYS	R1994	GLU	ALA	L1634
P2760	C2702	R2552	R2552	Q2480	ARG	G2306	M2208	GLU	T1995	GLU	ALA	L1634
Y2761	V2627	Y2553	Y2553	K2481	ASP	Q2308	V2212	LYS	R1996	GLU	GLY	M1637
T2762	D2630	C2554	C2554	D2482	ARG	C2310	G2216	PRO	E1997	GLU	VAL	A1638
H2763	E2635	L2559	L2559	L2485	ARG	P2311	G2216	GLU	Q2003	GLU	ALA	T1641
E2764	F2636	T2562	T2562	A2484	GLU	M2312	GLY	GLU	I2006	LYS	A1794	C1647
K2765	A2637	T2563	T2563	L2485	GLU	L2314	THR	PRO	N2007	ASP	R1808	M1648
Y2766	M2638	T2563	T2563	P2488	GLU	A2315	GLY	ALA	D1609	ASP	D1649	D1649
A2767	P2640	T2563	T2563	M2490	GLU	K2316	GLU	GLU	K1810	GLU	I1650	I1650
F2768	L2641	A2566	A2566	F2494	PRO	P2319	I2223	LYS	A2016	LYS	L1651	L1651
D2769	K2642	P2567	P2567	V2495	GLU	D2320	M2228	GLU	E2019	GLU	R1813	E1652
K2770	L2643	F2569	F2569	P2496	GLU	T2321	C2237	GLU	L2094	GLU	M1814	L1653
L2771	T2645	A2570	A2570	P2496	GLU	C2322	C2237	GLU	E2019	GLU	E1817	E1655
Q2772	Y2648	E2573	E2573	D2497	N2414	Q2323	R2241	ALA	P2022	ALA	A1818	Q1660
N2773	E2649	R2574	R2574	H2498	V2416	Q2325	Q2095	PRO	L2023	PRO	V1819	L1676
N2774	R2650	H2574	H2574	K2499	H2417	P2325	E2096	GLY	P2024	GLY	G1822	L1676
S2775	C2651	R2575	R2575	A2500	A2421	G2327	Q2247	GLU	I2027	GLU	A1826	H1688
S2776	M2652	M2578	M2578	S2501	I2422	C2328	S2255	LYS	R2027	LYS	A1826	H1688
Y2777	K2653	V2579	V2579	M2502	M2423	E2329	Y2256	GLU	R2028	GLU	R1827	V1689
G2778	Y2654	D2580	D2580	L2506	L2429	R2330	L2257	ASP	Q2029	ASP	D1828	D1690
E2779	Y2655	S2581	S2581	D2507	I2430	Y2331	L2257	GLU	D2030	GLU	P1829	Q1691
N2780	C2656	M2582	M2582	R2508	D2431	L2332	E2259	LEU	L2031	LEU	A1892	A1692
V2781	L2657	L2583	L2583	V2509	D2431	D2333	N2260	GLU	Q2032	GLU	G1832	Q1693
D2782	G2660	H2584	H2584	L2433	L2433	F2334	S2261	GLU	D2033	GLU	L1924	L1694
E2783	W2661	T2585	T2585	T2512	G2434	F2337	GLY	GLU	I2044	GLU	I1926	L1698
E2784	W2661	Y2586	Y2586	H2514	R2435	A2338	I1E	ILE	GLN	GLU	L1927	L1698
L2785	F2664	Y2587	Y2587	H2514	R2435	A2338	L2134	LEU	LEU	GLU	Q1928	E1699
K2786	T2667	R2588	R2588	Q2515	C2436	V2339	GLY	GLY	V1859	GLY	M1939	E1733
T2787	T2667	S2590	S2590	L2518		S2345		GLU				
H2788												
P2789												
M2790												
L2791												
R2792												
P2793												
Y2794												
K2795												
T2796												
F2797												
S2798												





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	53882	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	58.34	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.119	Depositor
Minimum map value	-0.032	Depositor
Average map value	0.016	Depositor
Map value standard deviation	0.031	Depositor
Recommended contour level	0.121	Depositor
Map size ($\text{\AA}$)	425.472, 425.472, 425.472	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.831, 0.831, 0.831	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	F	1.07	4/834 (0.5%)	0.84	4/1123 (0.4%)
1	H	1.07	4/834 (0.5%)	0.84	4/1123 (0.4%)
1	J	1.07	4/834 (0.5%)	0.84	4/1123 (0.4%)
1	O	1.07	4/834 (0.5%)	0.84	4/1123 (0.4%)
2	A	0.44	10/35070 (0.0%)	0.59	43/47504 (0.1%)
2	B	0.45	10/35070 (0.0%)	0.59	41/47504 (0.1%)
2	G	0.44	10/35070 (0.0%)	0.59	43/47504 (0.1%)
2	I	0.44	10/35070 (0.0%)	0.59	43/47504 (0.1%)
All	All	0.47	56/143616 (0.0%)	0.60	186/194508 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	A	0	1
2	B	0	1
2	G	0	1
2	I	0	1
All	All	0	4

All (56) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	752	VAL	CA-C	-11.19	1.42	1.52
2	I	752	VAL	CA-C	-11.11	1.43	1.52
2	G	752	VAL	CA-C	-11.09	1.43	1.52
2	B	752	VAL	CA-C	-11.09	1.43	1.52
2	A	3188	PRO	N-CD	-8.36	1.36	1.47
2	B	3188	PRO	N-CD	-8.36	1.36	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	3188	PRO	N-CD	-8.36	1.36	1.47
2	G	3188	PRO	N-CD	-8.30	1.36	1.47
1	H	39	SER	CA-C	-6.92	1.43	1.52
1	F	39	SER	CA-C	-6.91	1.43	1.52
1	J	39	SER	CA-C	-6.91	1.43	1.52
1	O	39	SER	CA-C	-6.91	1.43	1.52
2	B	749	ASP	CA-C	-6.78	1.44	1.52
2	G	749	ASP	CA-C	-6.78	1.44	1.52
2	A	749	ASP	CA-C	-6.76	1.44	1.52
2	I	749	ASP	CA-C	-6.76	1.44	1.52
2	B	750	LEU	CA-C	-6.20	1.44	1.52
2	I	750	LEU	CA-C	-6.20	1.44	1.52
2	A	750	LEU	CA-C	-6.18	1.44	1.52
2	G	750	LEU	CA-C	-6.18	1.44	1.52
2	G	750	LEU	N-CA	-6.15	1.37	1.46
2	A	750	LEU	N-CA	-6.13	1.38	1.46
2	B	750	LEU	N-CA	-6.09	1.38	1.46
2	I	750	LEU	N-CA	-6.09	1.38	1.46
2	I	1778	SER	CA-C	-5.88	1.46	1.52
2	A	1778	SER	CA-C	-5.82	1.46	1.52
2	G	1778	SER	CA-C	-5.82	1.46	1.52
1	H	28	GLY	CA-C	-5.81	1.46	1.51
1	F	28	GLY	CA-C	-5.80	1.46	1.51
2	B	1778	SER	CA-C	-5.80	1.46	1.52
1	O	28	GLY	CA-C	-5.79	1.46	1.51
1	J	28	GLY	CA-C	-5.77	1.46	1.51
2	A	3970	GLN	CA-C	-5.72	1.45	1.52
2	G	3970	GLN	CA-C	-5.72	1.45	1.52
2	I	3970	GLN	CA-C	-5.72	1.45	1.52
2	B	3970	GLN	CA-C	-5.69	1.45	1.52
1	J	43	ASN	CA-C	-5.68	1.45	1.52
1	H	43	ASN	CA-C	-5.65	1.45	1.52
1	O	43	ASN	CA-C	-5.65	1.45	1.52
2	I	5012	LYS	CA-C	-5.61	1.45	1.52
2	A	5012	LYS	CA-C	-5.58	1.45	1.52
1	F	43	ASN	CA-C	-5.58	1.46	1.52
2	G	5012	LYS	CA-C	-5.55	1.45	1.52
2	B	5012	LYS	CA-C	-5.55	1.45	1.52
2	G	1691	GLN	CA-C	-5.37	1.45	1.52
2	A	1691	GLN	CA-C	-5.33	1.45	1.52
2	B	1691	GLN	CA-C	-5.33	1.45	1.52
2	I	1691	GLN	CA-C	-5.33	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	44	LYS	CA-C	-5.22	1.48	1.52
2	G	748	LEU	CA-C	-5.18	1.46	1.52
2	B	748	LEU	CA-C	-5.18	1.46	1.52
1	H	44	LYS	CA-C	-5.16	1.48	1.52
1	O	44	LYS	CA-C	-5.14	1.48	1.52
2	A	748	LEU	CA-C	-5.12	1.46	1.52
2	I	748	LEU	CA-C	-5.12	1.46	1.52
1	J	44	LYS	CA-C	-5.10	1.48	1.52

All (186) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	752	VAL	CA-C-N	-25.72	92.21	119.99
2	G	752	VAL	C-N-CA	-25.72	92.21	119.99
2	B	752	VAL	CA-C-N	-25.72	92.21	119.99
2	B	752	VAL	C-N-CA	-25.72	92.21	119.99
2	A	752	VAL	CA-C-N	-25.71	92.23	119.99
2	A	752	VAL	C-N-CA	-25.71	92.23	119.99
2	I	752	VAL	CA-C-N	-25.70	92.23	119.99
2	I	752	VAL	C-N-CA	-25.70	92.23	119.99
2	A	752	VAL	N-CA-C	-18.13	88.13	107.89
2	B	752	VAL	N-CA-C	-18.12	88.14	107.89
2	G	752	VAL	N-CA-C	-18.11	88.15	107.89
2	I	752	VAL	N-CA-C	-18.09	88.17	107.89
2	I	752	VAL	CB-CA-C	-11.33	98.25	110.37
2	B	752	VAL	CB-CA-C	-11.33	98.25	110.37
2	G	752	VAL	CB-CA-C	-11.31	98.27	110.37
2	A	752	VAL	CB-CA-C	-11.29	98.29	110.37
2	B	2676	ARG	CB-CG-CD	-9.84	88.66	111.30
2	A	2676	ARG	CB-CG-CD	-9.83	88.68	111.30
2	I	2676	ARG	CB-CG-CD	-9.83	88.68	111.30
2	G	2676	ARG	CB-CG-CD	-9.82	88.71	111.30
2	B	3850	GLN	CA-CB-CG	9.43	132.95	114.10
2	A	3850	GLN	CA-CB-CG	9.42	132.94	114.10
2	I	3850	GLN	CA-CB-CG	9.41	132.92	114.10
2	G	3850	GLN	CA-CB-CG	9.40	132.90	114.10
2	G	750	LEU	N-CA-C	-9.06	101.76	113.17
2	A	750	LEU	N-CA-C	-9.00	101.83	113.17
2	B	750	LEU	N-CA-C	-9.00	101.83	113.17
2	I	750	LEU	N-CA-C	-9.00	101.83	113.17
2	G	3971	GLY	N-CA-C	-8.54	94.92	112.34
2	A	3971	GLY	N-CA-C	-8.53	94.93	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	3971	GLY	N-CA-C	-8.53	94.95	112.34
2	I	3971	GLY	N-CA-C	-8.53	94.95	112.34
2	B	5012	LYS	N-CA-C	-8.21	101.89	112.23
2	G	5012	LYS	N-CA-C	-8.19	101.91	112.23
2	A	5012	LYS	N-CA-C	-8.19	101.92	112.23
2	I	5012	LYS	N-CA-C	-8.16	101.95	112.23
2	G	749	ASP	N-CA-C	-8.12	95.28	108.52
2	B	749	ASP	N-CA-C	-8.10	95.33	108.52
2	A	749	ASP	N-CA-C	-8.09	95.34	108.52
2	I	749	ASP	N-CA-C	-8.06	95.37	108.52
2	I	1688	HIS	N-CA-C	-8.03	104.09	114.04
2	B	4159	ARG	CG-CD-NE	8.01	129.62	112.00
2	I	4159	ARG	CG-CD-NE	8.01	129.62	112.00
2	B	1688	HIS	N-CA-C	-8.00	104.12	114.04
2	G	1688	HIS	N-CA-C	-8.00	104.12	114.04
2	A	1688	HIS	N-CA-C	-8.00	104.12	114.04
2	A	4159	ARG	CG-CD-NE	8.00	129.60	112.00
2	G	4159	ARG	CG-CD-NE	7.98	129.55	112.00
2	B	3969	ILE	CB-CA-C	-7.90	101.81	111.85
2	A	3969	ILE	CB-CA-C	-7.89	101.83	111.85
2	G	3969	ILE	CB-CA-C	-7.87	101.86	111.85
2	I	3969	ILE	CB-CA-C	-7.87	101.86	111.85
2	G	3971	GLY	CA-C-N	-7.45	110.52	119.84
2	G	3971	GLY	C-N-CA	-7.45	110.52	119.84
2	A	3971	GLY	CA-C-N	-7.44	110.54	119.84
2	A	3971	GLY	C-N-CA	-7.44	110.54	119.84
2	B	3754	GLU	N-CA-C	-7.43	103.12	111.07
2	I	3754	GLU	N-CA-C	-7.43	103.12	111.07
2	I	3971	GLY	CA-C-N	-7.43	110.56	119.84
2	I	3971	GLY	C-N-CA	-7.43	110.56	119.84
2	A	3754	GLU	N-CA-C	-7.42	103.13	111.07
2	B	3971	GLY	CA-C-N	-7.41	110.58	119.84
2	B	3971	GLY	C-N-CA	-7.41	110.58	119.84
2	G	3754	GLU	N-CA-C	-7.38	103.17	111.07
2	B	3162	GLN	CA-CB-CG	7.00	128.10	114.10
2	I	3162	GLN	CA-CB-CG	7.00	128.09	114.10
2	G	3162	GLN	CA-CB-CG	6.99	128.08	114.10
2	G	3969	ILE	N-CA-C	6.99	118.81	112.17
2	A	3162	GLN	CA-CB-CG	6.98	128.07	114.10
2	I	3969	ILE	N-CA-C	6.98	118.81	112.17
2	A	3969	ILE	N-CA-C	6.98	118.80	112.17
2	B	3969	ILE	N-CA-C	6.97	118.79	112.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	20	GLN	N-CA-C	-6.96	96.99	108.76
1	O	20	GLN	N-CA-C	-6.96	97.00	108.76
1	J	20	GLN	N-CA-C	-6.95	97.02	108.76
1	F	20	GLN	N-CA-C	-6.93	97.04	108.76
2	I	3850	GLN	CB-CG-CD	6.65	123.90	112.60
2	G	3850	GLN	CB-CG-CD	6.63	123.87	112.60
2	A	3850	GLN	CB-CG-CD	6.62	123.85	112.60
1	O	39	SER	N-CA-C	-6.62	105.36	113.50
2	B	3850	GLN	CB-CG-CD	6.62	123.84	112.60
2	B	2588	ARG	CG-CD-NE	6.59	126.50	112.00
2	A	2588	ARG	CG-CD-NE	6.58	126.48	112.00
2	G	2588	ARG	CG-CD-NE	6.58	126.48	112.00
1	F	39	SER	N-CA-C	-6.56	105.43	113.50
1	H	39	SER	N-CA-C	-6.56	105.43	113.50
1	J	39	SER	N-CA-C	-6.56	105.43	113.50
2	I	2588	ARG	CG-CD-NE	6.55	126.42	112.00
2	I	3371	LYS	CA-CB-CG	6.46	127.01	114.10
2	G	3371	LYS	CA-CB-CG	6.45	126.99	114.10
2	B	3371	LYS	CA-CB-CG	6.44	126.99	114.10
2	A	3371	LYS	CA-CB-CG	6.43	126.96	114.10
2	I	4159	ARG	CB-CG-CD	6.32	125.84	111.30
2	B	4159	ARG	CB-CG-CD	6.30	125.80	111.30
2	A	4159	ARG	CB-CG-CD	6.29	125.78	111.30
2	G	4159	ARG	CB-CG-CD	6.28	125.74	111.30
2	G	4874	MET	CB-CG-SD	6.22	131.38	112.70
2	A	4874	MET	CB-CG-SD	6.21	131.32	112.70
2	I	4874	MET	CB-CG-SD	6.20	131.31	112.70
2	B	4874	MET	CB-CG-SD	6.20	131.30	112.70
2	G	4242	ILE	N-CA-C	-6.14	104.52	110.72
2	A	4242	ILE	N-CA-C	-6.12	104.54	110.72
2	I	4242	ILE	N-CA-C	-6.12	104.54	110.72
2	B	4242	ILE	N-CA-C	-6.11	104.55	110.72
2	A	4951	LYS	N-CA-C	-6.06	104.60	111.14
2	G	4951	LYS	N-CA-C	-6.05	104.61	111.14
2	B	4951	LYS	N-CA-C	-6.05	104.61	111.14
2	I	4951	LYS	N-CA-C	-6.02	104.64	111.14
2	A	3348	ARG	CB-CG-CD	-5.97	97.56	111.30
2	I	3348	ARG	CB-CG-CD	-5.97	97.58	111.30
2	B	3348	ARG	CB-CG-CD	-5.96	97.58	111.30
2	G	3370	GLY	CA-C-N	-5.96	110.72	121.14
2	G	3370	GLY	C-N-CA	-5.96	110.72	121.14
2	G	3348	ARG	CB-CG-CD	-5.96	97.60	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	3370	GLY	CA-C-N	-5.94	110.75	121.14
2	A	3370	GLY	C-N-CA	-5.94	110.75	121.14
2	I	3370	GLY	CA-C-N	-5.94	110.75	121.14
2	I	3370	GLY	C-N-CA	-5.94	110.75	121.14
2	G	2669	GLU	CA-CB-CG	5.92	125.94	114.10
2	I	2669	GLU	CA-CB-CG	5.91	125.93	114.10
2	A	2669	GLU	CA-CB-CG	5.91	125.91	114.10
2	B	3370	GLY	CA-C-N	-5.90	110.81	121.14
2	B	3370	GLY	C-N-CA	-5.90	110.81	121.14
2	B	2669	GLU	CA-CB-CG	5.89	125.89	114.10
2	I	4993	MET	N-CA-C	-5.83	105.66	112.89
2	B	4993	MET	N-CA-C	-5.80	105.69	112.89
2	A	4993	MET	N-CA-C	-5.80	105.70	112.89
2	G	4993	MET	N-CA-C	-5.78	105.72	112.89
2	B	2625	ARG	CG-CD-NE	5.76	124.68	112.00
2	A	2625	ARG	CG-CD-NE	5.76	124.67	112.00
2	I	2625	ARG	CG-CD-NE	5.75	124.65	112.00
2	G	2625	ARG	CG-CD-NE	5.74	124.62	112.00
2	B	748	LEU	CB-CA-C	-5.67	101.41	110.14
2	I	748	LEU	CB-CA-C	-5.67	101.41	110.14
2	A	748	LEU	CB-CA-C	-5.65	101.44	110.14
2	G	748	LEU	CB-CA-C	-5.63	101.47	110.14
2	I	1425	GLU	CA-CB-CG	5.62	125.35	114.10
2	A	1425	GLU	CA-CB-CG	5.61	125.31	114.10
2	G	1425	GLU	CA-CB-CG	5.61	125.31	114.10
2	B	1425	GLU	CA-CB-CG	5.61	125.31	114.10
1	O	26	TYR	N-CA-C	5.45	117.08	108.96
2	I	439	GLU	CA-CB-CG	5.45	125.01	114.10
1	H	26	TYR	N-CA-C	5.45	117.08	108.96
1	F	26	TYR	N-CA-C	5.43	117.06	108.96
1	J	26	TYR	N-CA-C	5.43	117.05	108.96
2	A	439	GLU	CA-CB-CG	5.43	124.96	114.10
2	B	439	GLU	CA-CB-CG	5.43	124.96	114.10
2	G	439	GLU	CA-CB-CG	5.43	124.96	114.10
2	I	4952	GLU	CA-CB-CG	5.34	124.79	114.10
2	A	4952	GLU	CA-CB-CG	5.34	124.78	114.10
2	G	4952	GLU	CA-CB-CG	5.34	124.78	114.10
2	B	4952	GLU	CA-CB-CG	5.34	124.78	114.10
2	G	2676	ARG	CD-NE-CZ	-5.32	116.95	124.40
2	I	2676	ARG	CD-NE-CZ	-5.32	116.95	124.40
2	B	2676	ARG	CD-NE-CZ	-5.30	116.98	124.40
2	A	2676	ARG	CD-NE-CZ	-5.30	116.98	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	4097	MET	CB-CG-SD	5.20	128.31	112.70
2	A	2676	ARG	NE-CZ-NH1	-5.20	116.30	121.50
2	B	4097	MET	CB-CG-SD	5.20	128.30	112.70
2	A	4097	MET	CB-CG-SD	5.20	128.29	112.70
2	G	4097	MET	CB-CG-SD	5.20	128.30	112.70
2	I	5012	LYS	CA-C-N	-5.20	112.91	120.29
2	I	5012	LYS	C-N-CA	-5.20	112.91	120.29
2	G	439	GLU	CB-CG-CD	5.19	121.43	112.60
2	G	5012	LYS	CA-C-N	-5.19	112.92	120.29
2	G	5012	LYS	C-N-CA	-5.19	112.92	120.29
2	A	5012	LYS	CA-C-N	-5.19	112.92	120.29
2	A	5012	LYS	C-N-CA	-5.19	112.92	120.29
2	B	2676	ARG	NE-CZ-NH1	-5.18	116.32	121.50
2	G	2676	ARG	NE-CZ-NH1	-5.17	116.33	121.50
2	I	2676	ARG	NE-CZ-NH1	-5.17	116.33	121.50
2	A	439	GLU	CB-CG-CD	5.16	121.36	112.60
2	I	439	GLU	CB-CG-CD	5.15	121.35	112.60
2	B	439	GLU	CB-CG-CD	5.14	121.34	112.60
2	G	1690	ASP	N-CA-C	5.13	117.43	110.35
2	G	5014	TYR	N-CA-C	-5.13	105.58	111.07
2	I	1690	ASP	N-CA-C	5.13	117.43	110.35
2	A	1690	ASP	N-CA-C	5.12	117.42	110.35
2	B	5014	TYR	N-CA-C	-5.12	105.59	111.07
2	A	5014	TYR	N-CA-C	-5.12	105.59	111.07
2	B	1690	ASP	N-CA-C	5.10	117.39	110.35
2	I	5014	TYR	N-CA-C	-5.08	105.64	111.07
1	H	25	HIS	N-CA-C	-5.04	101.49	109.76
1	F	25	HIS	N-CA-C	-5.02	101.52	109.76
1	O	25	HIS	N-CA-C	-5.02	101.52	109.76
1	J	25	HIS	N-CA-C	-5.02	101.53	109.76

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A	4638	TYR	Peptide
2	B	4638	TYR	Peptide
2	G	4638	TYR	Peptide
2	I	4638	TYR	Peptide

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	F	818	0	824	36	0
1	H	818	0	824	35	0
1	J	818	0	824	34	0
1	O	818	0	824	36	0
2	A	34293	0	33897	1283	0
2	B	34293	0	33897	1271	0
2	G	34293	0	33897	1282	0
2	I	34293	0	33897	1268	0
3	A	31	0	12	2	0
3	B	31	0	12	2	0
3	G	31	0	12	2	0
3	I	31	0	12	2	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	G	1	0	0	0	0
4	I	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	G	1	0	0	0	0
5	I	1	0	0	0	0
6	A	14	0	10	0	0
6	B	14	0	10	0	0
6	G	14	0	10	0	0
6	I	14	0	10	0	0
All	All	140632	0	138972	5189	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 19.

All (5189) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2469:ILE:CG2	2:G:2502:MET:HE1	1.38	1.53
2:I:3989:VAL:HG23	2:I:4023:MET:CE	1.38	1.52
2:B:3989:VAL:HG23	2:B:4023:MET:CE	1.38	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2469:ILE:CG2	2:B:2502:MET:HE1	1.38	1.50
2:B:3989:VAL:CG2	2:B:4023:MET:HE2	1.42	1.50
2:I:2469:ILE:CG2	2:I:2502:MET:HE1	1.37	1.50
2:A:3989:VAL:CG2	2:A:4023:MET:HE2	1.42	1.49
2:A:2469:ILE:CG2	2:A:2502:MET:HE1	1.38	1.49
2:A:3989:VAL:HG23	2:A:4023:MET:CE	1.38	1.49
2:G:3989:VAL:HG23	2:G:4023:MET:CE	1.38	1.49
2:G:3989:VAL:CG2	2:G:4023:MET:HE2	1.41	1.49
2:I:3989:VAL:CG2	2:I:4023:MET:HE2	1.42	1.46
2:G:3051:ARG:NH1	2:G:3052:HIS:HD2	1.16	1.43
2:I:3051:ARG:NH1	2:I:3052:HIS:HD2	1.16	1.42
2:A:3051:ARG:NH1	2:A:3052:HIS:HD2	1.16	1.41
2:I:4092:ASP:HA	2:I:4095:LYS:NZ	1.31	1.41
2:G:2615:ARG:NH2	2:G:2618:MET:CE	1.84	1.40
2:B:4092:ASP:HA	2:B:4095:LYS:NZ	1.31	1.40
2:G:4092:ASP:HA	2:G:4095:LYS:NZ	1.31	1.39
2:A:4092:ASP:HA	2:A:4095:LYS:NZ	1.31	1.39
2:I:2615:ARG:NH2	2:I:2618:MET:CE	1.84	1.39
2:I:2615:ARG:NH2	2:I:2618:MET:HE2	1.06	1.39
2:G:2615:ARG:NH2	2:G:2618:MET:HE2	1.06	1.38
2:A:2615:ARG:NH2	2:A:2618:MET:CE	1.84	1.38
2:B:3051:ARG:NH1	2:B:3052:HIS:HD2	1.16	1.36
2:A:3051:ARG:NH1	2:A:3052:HIS:CD2	1.94	1.36
2:B:2615:ARG:NH2	2:B:2618:MET:CE	1.84	1.35
2:B:2615:ARG:CZ	2:B:2618:MET:HE2	1.56	1.35
2:B:3051:ARG:NH1	2:B:3052:HIS:CD2	1.94	1.35
2:B:2615:ARG:NH2	2:B:2618:MET:HE2	1.06	1.35
2:I:3051:ARG:NH1	2:I:3052:HIS:CD2	1.94	1.34
2:B:2566:ALA:HA	2:B:2569:PHE:CE1	1.63	1.34
2:A:2615:ARG:NH2	2:A:2618:MET:HE2	1.06	1.34
2:A:2566:ALA:HA	2:A:2569:PHE:CE1	1.63	1.34
2:I:2566:ALA:HA	2:I:2569:PHE:CE1	1.63	1.34
2:G:2566:ALA:HA	2:G:2569:PHE:CE1	1.63	1.33
2:G:3051:ARG:NH1	2:G:3052:HIS:CD2	1.94	1.33
2:A:2615:ARG:CZ	2:A:2618:MET:HE2	1.56	1.32
2:G:2615:ARG:CZ	2:G:2618:MET:HE2	1.56	1.32
2:I:2615:ARG:CZ	2:I:2618:MET:HE2	1.56	1.32
2:A:4791:TYR:CE1	2:A:4818:MET:CE	2.13	1.32
2:G:4791:TYR:CE1	2:G:4818:MET:CE	2.13	1.31
2:B:4791:TYR:CE1	2:B:4818:MET:CE	2.13	1.31
2:I:4791:TYR:CE1	2:I:4818:MET:CE	2.13	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4791:TYR:CE1	2:G:4818:MET:HE3	1.68	1.28
2:I:4791:TYR:CE1	2:I:4818:MET:HE3	1.68	1.27
2:B:4791:TYR:CE1	2:B:4818:MET:HE3	1.69	1.27
2:G:2575:ARG:NH1	2:G:2578:MET:CE	1.98	1.27
2:A:4791:TYR:CE1	2:A:4818:MET:HE3	1.68	1.26
2:A:2575:ARG:NH1	2:A:2578:MET:CE	1.98	1.26
2:B:2575:ARG:NH1	2:B:2578:MET:CE	1.98	1.26
2:I:2575:ARG:NH1	2:I:2578:MET:CE	1.98	1.26
2:B:3309:SER:OG	2:B:3348:ARG:CZ	1.86	1.23
2:A:3309:SER:OG	2:A:3348:ARG:CZ	1.86	1.23
2:I:3309:SER:OG	2:I:3348:ARG:CZ	1.86	1.23
2:G:3309:SER:OG	2:G:3348:ARG:CZ	1.86	1.22
2:G:3201:MET:HE1	2:G:3205:PHE:CD1	1.75	1.21
2:B:3201:MET:HE1	2:B:3205:PHE:CD1	1.75	1.21
2:I:3201:MET:HE1	2:I:3205:PHE:CD1	1.75	1.20
2:I:3309:SER:CB	2:I:3348:ARG:NH1	2.05	1.20
2:A:3201:MET:HE1	2:A:3205:PHE:CD1	1.75	1.20
2:A:3309:SER:CB	2:A:3348:ARG:NH1	2.05	1.20
2:G:3309:SER:CB	2:G:3348:ARG:NH1	2.05	1.19
2:B:3309:SER:CB	2:B:3348:ARG:NH1	2.05	1.19
2:A:2788:HIS:CD2	2:A:2790:MET:SD	2.36	1.19
2:B:2788:HIS:CD2	2:B:2790:MET:SD	2.36	1.19
2:I:2788:HIS:CD2	2:I:2790:MET:SD	2.36	1.19
2:I:4791:TYR:CZ	2:I:4818:MET:HE2	1.77	1.18
2:A:4791:TYR:CZ	2:A:4818:MET:HE2	1.77	1.18
2:G:4791:TYR:CZ	2:G:4818:MET:HE2	1.77	1.18
2:I:4092:ASP:CA	2:I:4095:LYS:HZ3	1.55	1.18
2:G:2788:HIS:CD2	2:G:2790:MET:SD	2.36	1.17
2:B:4791:TYR:CZ	2:B:4818:MET:HE2	1.77	1.17
2:I:2894:LEU:HA	2:I:2897:LYS:HZ2	1.10	1.16
2:I:2575:ARG:NH1	2:I:2578:MET:HE3	1.58	1.16
2:I:3836:MET:HE3	2:I:3885:PHE:CE1	1.81	1.15
2:B:3836:MET:HE3	2:B:3885:PHE:CE1	1.81	1.15
2:B:4092:ASP:CA	2:B:4095:LYS:NZ	2.10	1.15
2:G:2575:ARG:NH1	2:G:2578:MET:HE3	1.58	1.15
2:G:4092:ASP:CA	2:G:4095:LYS:NZ	2.10	1.15
2:I:2894:LEU:HA	2:I:2897:LYS:NZ	1.62	1.15
2:A:2575:ARG:NH1	2:A:2578:MET:HE3	1.58	1.14
2:G:3836:MET:HE3	2:G:3885:PHE:CE1	1.81	1.14
2:B:4092:ASP:CA	2:B:4095:LYS:HZ3	1.58	1.14
2:A:3836:MET:HE3	2:A:3885:PHE:CE1	1.81	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2816:MET:HE1	2:B:2927:LEU:HD22	1.30	1.14
2:G:2894:LEU:HA	2:G:2897:LYS:NZ	1.62	1.14
2:B:2575:ARG:NH1	2:B:2578:MET:HE3	1.58	1.14
2:A:2894:LEU:HA	2:A:2897:LYS:NZ	1.62	1.13
2:A:4092:ASP:CA	2:A:4095:LYS:NZ	2.10	1.13
2:I:4092:ASP:CA	2:I:4095:LYS:NZ	2.10	1.13
2:G:2566:ALA:O	2:G:2569:PHE:HD1	1.32	1.13
2:G:2816:MET:HE1	2:G:2927:LEU:HD22	1.30	1.13
2:B:2894:LEU:HA	2:B:2897:LYS:NZ	1.62	1.12
2:B:2967:MET:HE3	2:B:3045:LYS:HB3	1.27	1.13
2:A:2816:MET:HE1	2:A:2927:LEU:HD22	1.30	1.12
2:G:1943:LEU:HD13	2:G:2101:MET:CE	1.79	1.12
2:G:3201:MET:HE1	2:G:3205:PHE:HD1	0.95	1.12
2:B:2566:ALA:O	2:B:2569:PHE:HD1	1.32	1.12
2:I:1943:LEU:HD13	2:I:2101:MET:CE	1.79	1.12
2:A:2566:ALA:O	2:A:2569:PHE:HD1	1.32	1.12
2:B:1943:LEU:HD13	2:B:2101:MET:CE	1.79	1.12
2:G:2967:MET:HE3	2:G:3045:LYS:HB3	1.27	1.12
2:A:1943:LEU:HD13	2:A:2101:MET:CE	1.79	1.11
2:B:2469:ILE:CG2	2:B:2502:MET:CE	2.29	1.11
2:I:2469:ILE:HG22	2:I:2502:MET:HE1	1.26	1.11
2:G:2894:LEU:HA	2:G:2897:LYS:HZ2	1.12	1.11
2:I:2967:MET:HE3	2:I:3045:LYS:HB3	1.27	1.11
2:G:2469:ILE:HG22	2:G:2502:MET:HE1	1.26	1.10
2:A:2469:ILE:CG2	2:A:2502:MET:CE	2.29	1.10
2:I:3201:MET:HE1	2:I:3205:PHE:HD1	0.95	1.10
2:B:3201:MET:HE1	2:B:3205:PHE:HD1	0.96	1.10
2:A:2967:MET:HE3	2:A:3045:LYS:HB3	1.27	1.10
2:I:2469:ILE:CG2	2:I:2502:MET:CE	2.29	1.10
2:I:2566:ALA:O	2:I:2569:PHE:HD1	1.32	1.10
2:I:2816:MET:HE1	2:I:2927:LEU:HD22	1.30	1.10
2:A:2469:ILE:HG22	2:A:2502:MET:HE1	1.26	1.10
2:B:2469:ILE:HG22	2:B:2502:MET:HE1	1.26	1.09
2:A:4961:CYS:SG	2:A:4983:HIS:CE1	2.45	1.09
2:G:2469:ILE:CG2	2:G:2502:MET:CE	2.29	1.09
1:J:2:VAL:HG11	1:J:61:GLU:HG2	1.35	1.09
2:B:4791:TYR:OH	2:B:4818:MET:HE2	1.52	1.09
2:G:2469:ILE:HG21	2:G:2502:MET:HE1	1.09	1.09
2:A:1943:LEU:HD13	2:A:2101:MET:HE1	1.09	1.08
2:A:4791:TYR:OH	2:A:4818:MET:HE2	1.52	1.08
1:F:2:VAL:HG11	1:F:61:GLU:HG2	1.35	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2894:LEU:HA	2:A:2897:LYS:HZ2	1.10	1.08
2:A:4045:VAL:HG12	2:A:4159:ARG:NE	1.69	1.08
1:H:2:VAL:HG11	1:H:61:GLU:HG2	1.35	1.08
2:G:4045:VAL:HG12	2:G:4159:ARG:NE	1.69	1.07
2:I:3327:LEU:HD12	2:I:3368:ARG:HH21	1.16	1.07
2:G:3320:LEU:HD23	2:G:3357:HIS:HB3	1.31	1.07
2:G:4791:TYR:CZ	2:G:4818:MET:CE	2.36	1.07
2:I:4045:VAL:HG12	2:I:4159:ARG:NE	1.69	1.07
2:A:3201:MET:HE1	2:A:3205:PHE:HD1	0.95	1.07
2:B:2967:MET:HE3	2:B:3045:LYS:CB	1.84	1.07
2:B:3051:ARG:HH11	2:B:3052:HIS:CD2	1.64	1.07
2:B:4791:TYR:CZ	2:B:4818:MET:CE	2.36	1.07
2:A:2615:ARG:CZ	2:A:2618:MET:CE	2.27	1.07
2:B:4045:VAL:HG12	2:B:4159:ARG:NE	1.69	1.07
2:I:2967:MET:HE3	2:I:3045:LYS:CB	1.84	1.07
2:A:2469:ILE:HG21	2:A:2502:MET:HE1	1.09	1.06
2:A:3051:ARG:HH11	2:A:3052:HIS:CD2	1.64	1.06
2:G:4791:TYR:OH	2:G:4818:MET:HE2	1.52	1.06
2:I:1943:LEU:HD13	2:I:2101:MET:HE1	1.09	1.06
2:A:3320:LEU:HD23	2:A:3357:HIS:HB3	1.31	1.06
2:A:2967:MET:HE3	2:A:3045:LYS:CB	1.84	1.06
2:B:4961:CYS:SG	2:B:4983:HIS:CE1	2.45	1.06
2:I:3320:LEU:HD23	2:I:3357:HIS:HB3	1.31	1.06
2:I:4791:TYR:OH	2:I:4818:MET:HE2	1.52	1.06
2:A:3309:SER:HB2	2:A:3348:ARG:NH1	1.69	1.06
2:G:2967:MET:HE3	2:G:3045:LYS:CB	1.84	1.06
2:G:3327:LEU:HD12	2:G:3368:ARG:HH21	1.16	1.06
2:A:4791:TYR:CZ	2:A:4818:MET:CE	2.36	1.06
1:O:2:VAL:HG11	1:O:61:GLU:HG2	1.35	1.06
2:G:1943:LEU:HD13	2:G:2101:MET:HE1	1.09	1.06
2:G:4961:CYS:SG	2:G:4983:HIS:CE1	2.45	1.06
2:A:3309:SER:CB	2:A:3348:ARG:CZ	2.34	1.05
2:B:1943:LEU:HD13	2:B:2101:MET:HE1	1.09	1.05
2:I:3051:ARG:HH11	2:I:3052:HIS:CD2	1.64	1.05
2:I:4961:CYS:SG	2:I:4983:HIS:CE1	2.45	1.05
2:B:3327:LEU:HD12	2:B:3368:ARG:HH21	1.16	1.05
2:I:3309:SER:HB2	2:I:3348:ARG:NH1	1.69	1.05
2:G:3309:SER:CB	2:G:3348:ARG:CZ	2.35	1.05
2:B:3309:SER:CB	2:B:3348:ARG:CZ	2.34	1.05
2:I:1943:LEU:CD1	2:I:2101:MET:HE1	1.87	1.05
2:A:4092:ASP:CA	2:A:4095:LYS:HZ3	1.64	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2615:ARG:CZ	2:G:2618:MET:CE	2.27	1.04
2:B:1943:LEU:CD1	2:B:2101:MET:HE1	1.87	1.04
2:I:2615:ARG:CZ	2:I:2618:MET:CE	2.27	1.04
2:G:2788:HIS:HD2	2:G:2790:MET:SD	1.76	1.04
2:B:2469:ILE:HG21	2:B:2502:MET:HE1	1.09	1.04
2:B:3320:LEU:HD23	2:B:3357:HIS:HB3	1.31	1.04
2:I:2788:HIS:HD2	2:I:2790:MET:SD	1.76	1.04
2:I:3309:SER:CB	2:I:3348:ARG:CZ	2.34	1.04
2:I:4791:TYR:CZ	2:I:4818:MET:CE	2.36	1.04
2:G:3051:ARG:HH11	2:G:3052:HIS:CD2	1.64	1.04
2:G:3201:MET:CE	2:G:3205:PHE:CD1	2.41	1.04
2:G:3309:SER:HB2	2:G:3348:ARG:NH1	1.69	1.04
2:B:3309:SER:HB2	2:B:3348:ARG:NH1	1.69	1.04
2:A:3327:LEU:HD12	2:A:3368:ARG:HH21	1.16	1.04
2:I:4157:ASP:OD1	2:I:4159:ARG:HG2	1.58	1.04
2:A:3201:MET:CE	2:A:3205:PHE:CD1	2.41	1.03
2:G:1943:LEU:CD1	2:G:2101:MET:HE1	1.87	1.03
2:B:2697:ARG:HA	2:B:2700:MET:HE2	1.38	1.03
2:B:2788:HIS:HD2	2:B:2790:MET:SD	1.76	1.03
2:I:2566:ALA:CA	2:I:2569:PHE:HE1	1.71	1.03
2:A:1943:LEU:CD1	2:A:2101:MET:HE1	1.87	1.03
2:A:2566:ALA:CA	2:A:2569:PHE:HE1	1.71	1.03
2:A:2697:ARG:HA	2:A:2700:MET:HE2	1.38	1.03
2:I:2469:ILE:HG21	2:I:2502:MET:HE1	1.09	1.03
2:B:4157:ASP:OD1	2:B:4159:ARG:HG2	1.58	1.03
2:A:2788:HIS:HD2	2:A:2790:MET:SD	1.76	1.03
2:A:4157:ASP:OD1	2:A:4159:ARG:HG2	1.58	1.03
2:G:2566:ALA:CA	2:G:2569:PHE:HE1	1.71	1.03
2:G:2697:ARG:HA	2:G:2700:MET:HE2	1.38	1.03
2:G:4157:ASP:OD1	2:G:4159:ARG:HG2	1.58	1.03
2:B:3201:MET:CE	2:B:3205:PHE:CD1	2.41	1.03
2:B:2566:ALA:CA	2:B:2569:PHE:HE1	1.71	1.02
2:B:2499:LYS:HG2	2:B:2553:TYR:OH	1.59	1.02
2:I:2697:ARG:HA	2:I:2700:MET:HE2	1.38	1.02
2:I:3201:MET:CE	2:I:3205:PHE:CD1	2.41	1.02
2:G:4092:ASP:CA	2:G:4095:LYS:HZ3	1.69	1.02
2:G:2499:LYS:HG2	2:G:2553:TYR:OH	1.59	1.02
2:A:4650:HIS:HE1	2:A:4812:HIS:CE1	1.78	1.01
2:G:4650:HIS:HE1	2:G:4812:HIS:CE1	1.78	1.01
2:I:4650:HIS:HE1	2:I:4812:HIS:CE1	1.78	1.01
2:I:2499:LYS:HG2	2:I:2553:TYR:OH	1.59	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2098:VAL:HG22	2:A:2101:MET:CE	1.91	1.00
2:A:2499:LYS:HG2	2:A:2553:TYR:OH	1.59	1.00
2:B:4092:ASP:HA	2:B:4095:LYS:HZ2	1.18	1.00
2:B:4650:HIS:HE1	2:B:4812:HIS:CE1	1.78	1.00
2:I:2098:VAL:HA	2:I:2101:MET:HE2	1.42	1.00
2:B:2098:VAL:HG22	2:B:2101:MET:CE	1.91	0.99
2:G:2098:VAL:HG22	2:G:2101:MET:CE	1.91	0.99
2:G:2185:ILE:HD13	2:G:2203:MET:HE1	1.43	0.99
2:B:2566:ALA:O	2:B:2569:PHE:CD1	2.16	0.99
2:G:2816:MET:HE2	2:G:2927:LEU:HD21	1.45	0.99
2:I:2098:VAL:HG22	2:I:2101:MET:CE	1.91	0.99
2:G:2566:ALA:O	2:G:2569:PHE:CD1	2.16	0.99
2:B:2098:VAL:HG22	2:B:2101:MET:HE2	1.41	0.99
2:B:2816:MET:HE2	2:B:2927:LEU:HD21	1.45	0.99
2:G:2098:VAL:HG22	2:G:2101:MET:HE2	1.41	0.98
2:G:2098:VAL:HA	2:G:2101:MET:HE2	1.42	0.98
2:B:2615:ARG:CZ	2:B:2618:MET:CE	2.27	0.98
2:B:3836:MET:HE3	2:B:3885:PHE:CZ	1.98	0.98
2:I:2185:ILE:HD13	2:I:2203:MET:HE1	1.43	0.98
2:A:2098:VAL:HG22	2:A:2101:MET:HE2	1.41	0.98
2:A:2816:MET:HE2	2:A:2927:LEU:HD21	1.45	0.98
2:I:3836:MET:HE3	2:I:3885:PHE:CZ	1.98	0.98
2:B:3051:ARG:HH12	2:B:3052:HIS:CD2	1.73	0.98
2:A:2566:ALA:O	2:A:2569:PHE:CD1	2.16	0.98
2:A:3836:MET:HE3	2:A:3885:PHE:CZ	1.98	0.98
2:G:227:MET:HE3	2:G:389:PHE:HD2	1.29	0.98
2:G:2575:ARG:HH12	2:G:2578:MET:HE1	1.29	0.98
2:I:2098:VAL:HG22	2:I:2101:MET:HE2	1.41	0.98
2:I:2566:ALA:O	2:I:2569:PHE:CD1	2.16	0.98
2:I:2575:ARG:HH12	2:I:2578:MET:HE1	1.29	0.98
2:A:2185:ILE:HD13	2:A:2203:MET:HE1	1.43	0.97
2:G:1993:ARG:HB3	2:G:1994:ARG:HH21	1.29	0.97
2:I:4092:ASP:HA	2:I:4095:LYS:HZ2	1.23	0.97
2:A:2098:VAL:HA	2:A:2101:MET:HE2	1.42	0.97
2:A:3068:LEU:HG	2:A:3139:VAL:HG21	1.46	0.97
2:G:2496:PRO:HD3	2:G:2546:MET:HE1	1.46	0.97
2:B:2098:VAL:HA	2:B:2101:MET:HE2	1.42	0.97
2:B:2185:ILE:HD13	2:B:2203:MET:HE1	1.43	0.97
2:A:2816:MET:HE1	2:A:2927:LEU:CD2	1.94	0.97
2:G:3836:MET:HE3	2:G:3885:PHE:CZ	1.98	0.97
2:I:3205:PHE:HE2	2:I:3276:MET:CE	1.78	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2496:PRO:HD3	2:A:2546:MET:HE1	1.46	0.97
2:G:3205:PHE:HE2	2:G:3276:MET:CE	1.78	0.97
2:I:2816:MET:HE2	2:I:2927:LEU:HD21	1.45	0.97
2:G:2816:MET:HE1	2:G:2927:LEU:CD2	1.94	0.97
2:G:3068:LEU:HG	2:G:3139:VAL:HG21	1.46	0.97
2:B:20:VAL:HG21	2:B:202:MET:HE3	1.46	0.97
2:I:3068:LEU:HG	2:I:3139:VAL:HG21	1.46	0.97
2:B:1993:ARG:HB3	2:B:1994:ARG:HH21	1.29	0.97
2:B:3068:LEU:HG	2:B:3139:VAL:HG21	1.46	0.97
2:A:3205:PHE:HE2	2:A:3276:MET:CE	1.78	0.96
2:G:3051:ARG:HH12	2:G:3052:HIS:CD2	1.73	0.96
2:A:1993:ARG:HB3	2:A:1994:ARG:HH21	1.29	0.96
2:I:2496:PRO:HD3	2:I:2546:MET:HE1	1.46	0.96
2:I:2816:MET:HE1	2:I:2927:LEU:CD2	1.94	0.96
2:B:2894:LEU:HA	2:B:2897:LYS:HZ2	1.15	0.96
2:B:2816:MET:HE1	2:B:2927:LEU:CD2	1.94	0.96
2:B:3813:GLN:O	2:B:3899:PHE:HZ	1.49	0.96
2:A:2967:MET:CE	2:A:3045:LYS:CB	2.44	0.96
2:I:3309:SER:OG	2:I:3348:ARG:NH2	1.98	0.96
2:G:2816:MET:HE3	2:G:2878:LEU:CD1	1.96	0.95
2:G:3309:SER:OG	2:G:3348:ARG:NH2	1.98	0.95
2:B:3205:PHE:HE2	2:B:3276:MET:CE	1.78	0.95
2:A:2816:MET:HE3	2:A:2878:LEU:CD1	1.96	0.95
2:I:2816:MET:HE3	2:I:2878:LEU:CD1	1.96	0.95
2:A:20:VAL:HG21	2:A:202:MET:HE3	1.46	0.95
2:A:227:MET:HE3	2:A:389:PHE:HD2	1.28	0.95
2:G:2967:MET:CE	2:G:3045:LYS:CB	2.44	0.95
2:B:2496:PRO:HD3	2:B:2546:MET:HE1	1.46	0.95
2:A:2575:ARG:HH12	2:A:2578:MET:HE1	1.29	0.95
2:B:2967:MET:CE	2:B:3045:LYS:CB	2.44	0.95
2:B:3309:SER:OG	2:B:3348:ARG:NH2	1.98	0.95
2:I:2967:MET:CE	2:I:3045:LYS:CB	2.44	0.95
2:B:2816:MET:HE3	2:B:2878:LEU:CD1	1.96	0.95
2:I:227:MET:HE3	2:I:389:PHE:HD2	1.28	0.95
2:I:1993:ARG:HB3	2:I:1994:ARG:HH21	1.29	0.95
2:I:2472:LEU:HD12	2:I:2473:PRO:HD2	1.49	0.95
2:A:3309:SER:OG	2:A:3348:ARG:NH2	1.98	0.95
2:I:20:VAL:HG21	2:I:202:MET:HE3	1.46	0.95
2:B:2472:LEU:HD12	2:B:2473:PRO:HD2	1.49	0.94
2:A:2472:LEU:HD12	2:A:2473:PRO:HD2	1.49	0.94
2:A:4823:LEU:HD11	2:B:4839:MET:HB3	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:227:MET:HE3	2:B:389:PHE:HD2	1.28	0.94
2:B:2185:ILE:HD13	2:B:2203:MET:CE	1.97	0.94
2:A:3201:MET:CE	2:A:3205:PHE:HD1	1.77	0.94
2:A:2185:ILE:HD13	2:A:2203:MET:CE	1.97	0.94
2:G:2575:ARG:HH11	2:G:2578:MET:CE	1.78	0.94
2:I:3813:GLN:O	2:I:3899:PHE:HZ	1.49	0.94
2:G:2472:LEU:HD12	2:G:2473:PRO:HD2	1.49	0.94
2:G:2185:ILE:HD13	2:G:2203:MET:CE	1.97	0.94
2:G:3813:GLN:O	2:G:3899:PHE:HZ	1.49	0.94
2:B:2575:ARG:HH12	2:B:2578:MET:HE1	1.29	0.94
2:I:2185:ILE:HD13	2:I:2203:MET:CE	1.97	0.94
2:G:20:VAL:HG21	2:G:202:MET:HE3	1.46	0.94
2:A:2788:HIS:CD2	2:A:2790:MET:CG	2.52	0.93
2:A:2575:ARG:HH12	2:A:2578:MET:CE	1.79	0.93
2:A:3813:GLN:O	2:A:3899:PHE:HZ	1.49	0.93
2:G:4092:ASP:HA	2:G:4095:LYS:HZ3	1.14	0.93
2:B:2788:HIS:CD2	2:B:2790:MET:CG	2.52	0.93
2:A:3051:ARG:HH12	2:A:3052:HIS:CD2	1.73	0.92
2:I:2788:HIS:CD2	2:I:2790:MET:CG	2.52	0.92
2:A:924:MET:HE2	2:A:924:MET:HA	1.51	0.92
2:G:2615:ARG:HH22	2:G:2618:MET:HE2	1.29	0.92
2:A:2575:ARG:HH11	2:A:2578:MET:CE	1.78	0.92
2:B:3201:MET:CE	2:B:3205:PHE:HD1	1.77	0.92
2:A:2615:ARG:HH22	2:A:2618:MET:HE2	1.29	0.92
2:I:2469:ILE:HG21	2:I:2502:MET:CE	1.98	0.92
2:A:3107:VAL:HA	2:A:3110:LEU:HD12	1.51	0.92
2:G:2469:ILE:HG22	2:G:2502:MET:CE	1.98	0.92
2:G:3201:MET:CE	2:G:3205:PHE:HD1	1.77	0.92
2:I:2469:ILE:HG22	2:I:2502:MET:CE	1.97	0.92
1:F:19:GLY:HA2	1:F:49:ARG:HH21	1.35	0.92
2:A:2788:HIS:CD2	2:A:2790:MET:HG3	2.05	0.92
2:A:893:TYR:HB3	2:A:960:MET:HE2	1.51	0.92
2:G:2788:HIS:CD2	2:G:2790:MET:CG	2.52	0.92
2:G:2788:HIS:CD2	2:G:2790:MET:HG3	2.05	0.92
2:B:2964:LEU:HD21	2:B:3042:LEU:HD12	1.52	0.92
2:I:2788:HIS:CD2	2:I:2790:MET:HG3	2.05	0.92
2:I:2575:ARG:HH11	2:I:2578:MET:CE	1.78	0.92
2:B:893:TYR:HB3	2:B:960:MET:HE2	1.51	0.92
2:B:3107:VAL:HA	2:B:3110:LEU:HD12	1.51	0.91
2:I:2964:LEU:HD21	2:I:3042:LEU:HD12	1.52	0.91
2:I:3051:ARG:HH12	2:I:3052:HIS:CD2	1.73	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:924:MET:HE2	2:I:924:MET:HA	1.51	0.91
2:B:2788:HIS:CD2	2:B:2790:MET:HG3	2.05	0.91
2:A:456:SER:HB3	2:A:459:LEU:HD23	1.53	0.91
2:G:924:MET:HA	2:G:924:MET:HE2	1.51	0.91
2:I:2816:MET:CE	2:I:2927:LEU:CD2	2.48	0.91
2:I:2615:ARG:HH22	2:I:2618:MET:HE2	1.29	0.91
2:I:3107:VAL:HA	2:I:3110:LEU:HD12	1.51	0.91
2:A:3080:VAL:HG12	2:A:3081:MET:HE2	1.52	0.91
2:B:456:SER:HB3	2:B:459:LEU:HD23	1.53	0.91
2:B:3080:VAL:HG12	2:B:3081:MET:HE2	1.51	0.91
2:A:2816:MET:CE	2:A:2927:LEU:CD2	2.48	0.91
2:G:456:SER:HB3	2:G:459:LEU:HD23	1.53	0.91
2:B:2816:MET:HE3	2:B:2878:LEU:HD12	1.52	0.91
1:O:19:GLY:HA2	1:O:49:ARG:HH21	1.35	0.91
2:G:3107:VAL:HA	2:G:3110:LEU:HD12	1.51	0.91
2:A:4092:ASP:HA	2:A:4095:LYS:HZ2	1.08	0.91
1:H:19:GLY:HA2	1:H:49:ARG:HH21	1.35	0.91
2:G:893:TYR:HB3	2:G:960:MET:HE2	1.51	0.91
2:I:3530:GLN:OE1	2:I:3534:MET:HE3	1.71	0.91
2:G:3530:GLN:OE1	2:G:3534:MET:HE3	1.71	0.90
2:B:797:HIS:ND1	2:B:821:LEU:HD23	1.87	0.90
2:B:2575:ARG:HH11	2:B:2578:MET:CE	1.78	0.90
2:B:2816:MET:CE	2:B:2927:LEU:CD2	2.48	0.90
2:I:456:SER:HB3	2:I:459:LEU:HD23	1.53	0.90
2:I:893:TYR:HB3	2:I:960:MET:HE2	1.51	0.90
2:I:3080:VAL:HG12	2:I:3081:MET:HE2	1.52	0.90
2:G:2469:ILE:HG21	2:G:2502:MET:CE	1.98	0.90
2:I:797:HIS:ND1	2:I:821:LEU:HD23	1.87	0.90
2:I:227:MET:HE3	2:I:389:PHE:CD2	2.07	0.90
2:G:2816:MET:CE	2:G:2927:LEU:CD2	2.48	0.90
2:G:4092:ASP:CB	2:G:4095:LYS:HZ3	1.83	0.90
2:I:3201:MET:CE	2:I:3205:PHE:HD1	1.77	0.90
2:B:227:MET:HE3	2:B:389:PHE:CD2	2.07	0.90
2:A:2964:LEU:HD21	2:A:3042:LEU:HD12	1.52	0.90
2:B:2615:ARG:HH22	2:B:2618:MET:HE2	1.29	0.90
2:G:227:MET:HE3	2:G:389:PHE:CD2	2.07	0.90
2:G:2816:MET:HE3	2:G:2878:LEU:HD12	1.52	0.90
2:G:2964:LEU:HD21	2:G:3042:LEU:HD12	1.52	0.90
2:B:924:MET:HE2	2:B:924:MET:HA	1.51	0.89
2:A:2816:MET:HE3	2:A:2878:LEU:HD12	1.52	0.89
2:A:4092:ASP:CB	2:A:4095:LYS:HZ3	1.85	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3530:GLN:OE1	2:A:3534:MET:HE3	1.71	0.89
2:G:3080:VAL:HG12	2:G:3081:MET:HE2	1.51	0.89
2:A:227:MET:HE3	2:A:389:PHE:CD2	2.07	0.89
2:A:459:LEU:HD12	2:A:463:GLU:HG2	1.55	0.89
2:G:2967:MET:HE1	2:G:3045:LYS:HB2	1.54	0.89
2:A:2967:MET:HE1	2:A:3045:LYS:HB2	1.55	0.89
2:B:2967:MET:CE	2:B:3045:LYS:HB3	2.03	0.89
2:I:2894:LEU:CA	2:I:2897:LYS:NZ	2.36	0.89
2:A:797:HIS:ND1	2:A:821:LEU:HD23	1.87	0.89
2:G:797:HIS:ND1	2:G:821:LEU:HD23	1.87	0.89
2:A:2566:ALA:HA	2:A:2569:PHE:HE1	0.77	0.89
2:G:2788:HIS:NE2	2:G:2790:MET:CG	2.36	0.89
2:G:3445:TRP:CH2	2:G:3452:LYS:HG2	2.09	0.89
2:G:459:LEU:HD12	2:G:463:GLU:HG2	1.55	0.88
2:B:2967:MET:CE	2:B:3045:LYS:HB2	2.03	0.88
2:B:3530:GLN:OE1	2:B:3534:MET:HE3	1.71	0.88
2:B:4045:VAL:CG1	2:B:4159:ARG:HE	1.86	0.88
1:J:19:GLY:HA2	1:J:49:ARG:HH21	1.35	0.88
2:B:2894:LEU:CA	2:B:2897:LYS:NZ	2.36	0.88
2:B:2816:MET:CE	2:B:2927:LEU:HD21	2.03	0.88
2:I:2967:MET:HE1	2:I:3045:LYS:HB2	1.55	0.88
2:A:2894:LEU:CA	2:A:2897:LYS:NZ	2.36	0.88
2:G:2566:ALA:HA	2:G:2569:PHE:HE1	0.77	0.88
2:B:459:LEU:HD12	2:B:463:GLU:HG2	1.55	0.88
2:I:69:LEU:HD21	2:I:202:MET:CE	2.03	0.88
2:I:2967:MET:CE	2:I:3045:LYS:HB3	2.03	0.88
2:I:4045:VAL:CG1	2:I:4159:ARG:HE	1.86	0.88
2:A:2788:HIS:NE2	2:A:2790:MET:CG	2.36	0.88
2:G:69:LEU:HD21	2:G:202:MET:CE	2.04	0.88
2:B:2788:HIS:NE2	2:B:2790:MET:CG	2.36	0.88
2:A:2816:MET:CE	2:A:2927:LEU:HD21	2.03	0.88
2:A:2967:MET:CE	2:A:3045:LYS:HB2	2.03	0.88
2:I:2816:MET:CE	2:I:2927:LEU:HD21	2.03	0.88
2:G:2967:MET:CE	2:G:3045:LYS:HB3	2.03	0.88
2:B:69:LEU:HD21	2:B:202:MET:CE	2.03	0.88
2:I:2788:HIS:NE2	2:I:2790:MET:CG	2.36	0.88
2:B:2469:ILE:HG22	2:B:2502:MET:CE	1.98	0.88
2:G:2894:LEU:CA	2:G:2897:LYS:NZ	2.36	0.88
2:I:2816:MET:HE3	2:I:2878:LEU:HD12	1.52	0.88
2:G:2816:MET:CE	2:G:2927:LEU:HD21	2.03	0.88
2:G:4045:VAL:CG1	2:G:4159:ARG:HE	1.86	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3445:TRP:CH2	2:I:3452:LYS:HG2	2.09	0.88
2:A:3445:TRP:CH2	2:A:3452:LYS:HG2	2.09	0.87
2:A:4045:VAL:CG1	2:A:4159:ARG:HE	1.86	0.87
2:A:4092:ASP:HA	2:A:4095:LYS:HZ3	1.07	0.87
2:I:459:LEU:HD12	2:I:463:GLU:HG2	1.55	0.87
2:I:2155:LEU:HD11	2:I:2198:MET:HE1	1.56	0.87
2:I:2967:MET:CE	2:I:3045:LYS:HB2	2.03	0.87
2:A:4796:MET:HE3	2:A:4800:LEU:HG	1.57	0.87
2:G:2575:ARG:HH12	2:G:2578:MET:CE	1.79	0.87
2:A:69:LEU:HD21	2:A:202:MET:CE	2.03	0.87
2:G:1170:MET:HE3	2:G:1176:GLU:OE2	1.75	0.87
2:A:1170:MET:HE3	2:A:1176:GLU:OE2	1.75	0.87
2:B:2155:LEU:HD11	2:B:2198:MET:HE1	1.55	0.87
2:B:2967:MET:HE1	2:B:3045:LYS:HB2	1.54	0.87
2:B:4796:MET:HE3	2:B:4800:LEU:HG	1.57	0.87
2:A:2155:LEU:HD11	2:A:2198:MET:HE1	1.55	0.86
2:G:2967:MET:CE	2:G:3045:LYS:HB2	2.03	0.86
2:G:2575:ARG:NH1	2:G:2578:MET:HE1	1.87	0.86
2:A:2967:MET:CE	2:A:3045:LYS:HB3	2.03	0.86
2:G:4796:MET:HE3	2:G:4800:LEU:HG	1.57	0.86
2:B:4092:ASP:CB	2:B:4095:LYS:HZ3	1.88	0.86
2:B:3445:TRP:CH2	2:B:3452:LYS:HG2	2.09	0.86
2:I:897:ARG:HB2	2:I:903:LEU:HD11	1.58	0.86
2:I:1170:MET:HE3	2:I:1176:GLU:OE2	1.75	0.86
2:A:3413:ILE:CD1	2:A:3469:PHE:O	2.24	0.86
2:G:2155:LEU:HD11	2:G:2198:MET:HE1	1.55	0.86
2:B:1170:MET:HE3	2:B:1176:GLU:OE2	1.75	0.86
2:A:4791:TYR:HE1	2:A:4818:MET:CE	1.89	0.86
2:B:2566:ALA:HA	2:B:2569:PHE:HE1	0.77	0.85
2:A:981:GLN:HG2	2:A:1047:LEU:HD11	1.58	0.85
2:I:3141:THR:HG1	2:I:3193:CYS:HG	1.25	0.85
2:G:981:GLN:HG2	2:G:1047:LEU:HD11	1.58	0.85
2:I:981:GLN:HG2	2:I:1047:LEU:HD11	1.58	0.85
2:G:3413:ILE:CD1	2:G:3469:PHE:O	2.24	0.85
2:B:981:GLN:HG2	2:B:1047:LEU:HD11	1.58	0.85
2:I:2575:ARG:NH1	2:I:2578:MET:HE1	1.87	0.85
2:B:1064:GLU:O	2:B:1071:ARG:NH2	2.10	0.85
2:A:2469:ILE:HG22	2:A:2502:MET:CE	1.98	0.85
2:A:4650:HIS:CE1	2:A:4812:HIS:CE1	2.64	0.85
2:G:2098:VAL:CG2	2:G:2101:MET:HE2	2.07	0.85
2:B:3413:ILE:CD1	2:B:3469:PHE:O	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3445:TRP:CZ3	2:B:3452:LYS:HG2	2.12	0.85
2:I:2566:ALA:HA	2:I:2569:PHE:HE1	0.77	0.85
2:B:2575:ARG:HH12	2:B:2578:MET:CE	1.80	0.85
2:I:3081:MET:HE1	2:I:3089:LYS:HA	1.59	0.85
2:G:3445:TRP:CZ3	2:G:3452:LYS:HG2	2.12	0.85
2:B:3081:MET:HE1	2:B:3089:LYS:HA	1.59	0.85
2:A:1064:GLU:O	2:A:1071:ARG:NH2	2.10	0.85
2:B:4650:HIS:CE1	2:B:4812:HIS:CE1	2.64	0.85
2:I:4796:MET:HE3	2:I:4800:LEU:HG	1.57	0.85
2:B:897:ARG:HB2	2:B:903:LEU:HD11	1.58	0.84
2:I:4650:HIS:CE1	2:I:4812:HIS:CE1	2.64	0.84
2:I:3106:MET:HE3	2:I:3110:LEU:HD21	1.59	0.84
2:A:3106:MET:HE3	2:A:3110:LEU:HD21	1.59	0.84
2:I:3413:ILE:CD1	2:I:3469:PHE:O	2.24	0.84
2:I:2098:VAL:CG2	2:I:2101:MET:HE2	2.07	0.84
2:A:3081:MET:HE1	2:A:3089:LYS:HA	1.59	0.84
2:B:2469:ILE:HG21	2:B:2502:MET:CE	1.98	0.84
2:A:4839:MET:HB3	2:G:4823:LEU:HD11	1.59	0.84
2:A:3445:TRP:CZ3	2:A:3452:LYS:HG2	2.12	0.84
2:A:897:ARG:HB2	2:A:903:LEU:HD11	1.58	0.84
2:G:1064:GLU:O	2:G:1071:ARG:NH2	2.10	0.84
2:G:3081:MET:HE1	2:G:3089:LYS:HA	1.59	0.84
2:G:4839:MET:HB3	2:I:4823:LEU:HD11	1.59	0.84
2:G:2697:ARG:HA	2:G:2700:MET:CE	2.07	0.83
2:B:3080:VAL:HG12	2:B:3081:MET:CE	2.08	0.83
2:G:4650:HIS:CE1	2:G:4812:HIS:CE1	2.64	0.83
2:I:2310:CYS:SG	2:I:2324:ASN:ND2	2.51	0.83
2:I:3445:TRP:CZ3	2:I:3452:LYS:HG2	2.12	0.83
2:A:2697:ARG:HA	2:A:2700:MET:CE	2.07	0.83
2:A:797:HIS:CE1	2:A:821:LEU:HD23	2.14	0.83
2:B:3035:GLU:HA	2:B:3038:MET:HE2	1.61	0.83
2:B:2098:VAL:CG2	2:B:2101:MET:HE2	2.07	0.83
2:B:4823:LEU:HD11	2:I:4839:MET:HB3	1.61	0.83
2:B:797:HIS:CE1	2:B:821:LEU:HD23	2.14	0.83
2:I:2697:ARG:HA	2:I:2700:MET:CE	2.07	0.83
2:I:3035:GLU:HA	2:I:3038:MET:HE2	1.61	0.83
2:A:2098:VAL:CG2	2:A:2101:MET:HE2	2.07	0.83
2:A:2310:CYS:SG	2:A:2324:ASN:ND2	2.51	0.83
2:G:4791:TYR:HE1	2:G:4818:MET:CE	1.89	0.83
2:B:2697:ARG:HA	2:B:2700:MET:CE	2.08	0.83
2:I:2469:ILE:HB	2:I:2502:MET:SD	2.19	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4045:VAL:CG1	2:I:4159:ARG:NE	2.42	0.83
2:B:2191:PHE:HA	2:B:2198:MET:HE3	1.60	0.83
2:I:3836:MET:CE	2:I:3885:PHE:CE1	2.62	0.83
2:I:4092:ASP:CB	2:I:4095:LYS:HZ3	1.90	0.83
2:A:2469:ILE:HG21	2:A:2502:MET:CE	1.98	0.83
2:B:2595:LEU:HD22	2:B:2599:GLN:CD	2.04	0.83
2:A:4045:VAL:CG1	2:A:4159:ARG:NE	2.42	0.83
2:G:797:HIS:CE1	2:G:821:LEU:HD23	2.14	0.83
2:G:2472:LEU:HD23	2:G:2494:PHE:CE2	2.14	0.83
2:B:3106:MET:HE3	2:B:3110:LEU:HD21	1.59	0.83
2:G:3836:MET:CE	2:G:3885:PHE:CE1	2.62	0.82
2:A:2472:LEU:HD23	2:A:2494:PHE:CE2	2.14	0.82
2:G:897:ARG:HB2	2:G:903:LEU:HD11	1.58	0.82
2:B:2469:ILE:HB	2:B:2502:MET:SD	2.19	0.82
2:I:797:HIS:CE1	2:I:821:LEU:HD23	2.14	0.82
2:A:2469:ILE:HB	2:A:2502:MET:SD	2.19	0.82
2:G:2362:GLU:HA	2:G:2369:ARG:CZ	2.09	0.82
2:G:4092:ASP:HA	2:G:4095:LYS:HZ2	1.02	0.82
2:I:2595:LEU:HD22	2:I:2599:GLN:CD	2.04	0.82
2:A:3080:VAL:HG12	2:A:3081:MET:CE	2.08	0.82
2:G:2469:ILE:HB	2:G:2502:MET:SD	2.19	0.82
2:G:4045:VAL:CG1	2:G:4159:ARG:NE	2.42	0.82
2:B:2472:LEU:HD23	2:B:2494:PHE:CE2	2.14	0.82
2:I:3205:PHE:HE2	2:I:3276:MET:HE2	1.44	0.82
2:A:2362:GLU:HA	2:A:2369:ARG:CZ	2.09	0.82
2:A:2615:ARG:HH21	2:A:2618:MET:CE	1.92	0.82
2:G:2191:PHE:HA	2:G:2198:MET:HE3	1.60	0.82
2:G:2595:LEU:HD22	2:G:2599:GLN:CD	2.04	0.82
2:G:3080:VAL:HG12	2:G:3081:MET:CE	2.08	0.82
2:I:1064:GLU:O	2:I:1071:ARG:NH2	2.10	0.82
2:I:3080:VAL:HG12	2:I:3081:MET:CE	2.08	0.82
2:B:2310:CYS:SG	2:B:2324:ASN:ND2	2.51	0.82
2:B:3836:MET:CE	2:B:3885:PHE:CE1	2.62	0.82
2:A:3836:MET:CE	2:A:3885:PHE:CE1	2.62	0.82
2:A:2595:LEU:HD22	2:A:2599:GLN:CD	2.04	0.82
2:B:4045:VAL:CG1	2:B:4159:ARG:NE	2.42	0.82
2:I:2362:GLU:HA	2:I:2369:ARG:CZ	2.10	0.82
2:B:2362:GLU:HA	2:B:2369:ARG:CZ	2.09	0.82
2:I:2191:PHE:HA	2:I:2198:MET:HE3	1.60	0.82
2:A:2191:PHE:HA	2:A:2198:MET:HE3	1.60	0.81
2:G:3205:PHE:HE2	2:G:3276:MET:HE2	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3205:PHE:CE2	2:A:3276:MET:HE3	2.15	0.81
2:A:3035:GLU:HA	2:A:3038:MET:HE2	1.61	0.81
2:G:2472:LEU:CD1	2:G:2473:PRO:HD2	2.10	0.81
2:G:2615:ARG:HH21	2:G:2618:MET:CE	1.92	0.81
2:B:2155:LEU:CD1	2:B:2198:MET:HE1	2.10	0.81
2:B:3205:PHE:CE2	2:B:3276:MET:HE3	2.15	0.81
2:I:3057:PHE:HB3	2:I:3060:ASP:HB2	1.63	0.81
2:A:3057:PHE:HB3	2:A:3060:ASP:HB2	1.63	0.81
2:G:2310:CYS:SG	2:G:2324:ASN:ND2	2.51	0.81
2:G:3035:GLU:HA	2:G:3038:MET:HE2	1.61	0.81
2:G:3413:ILE:HD11	2:G:3469:PHE:O	1.81	0.81
2:I:2155:LEU:CD1	2:I:2198:MET:HE1	2.10	0.81
2:I:2472:LEU:HD23	2:I:2494:PHE:CE2	2.14	0.81
2:A:2908:TYR:HA	2:A:2911:LEU:HD23	1.63	0.81
1:H:58:GLY:HA2	1:H:61:GLU:CD	2.06	0.81
2:B:2472:LEU:CD1	2:B:2473:PRO:HD2	2.10	0.81
2:I:3327:LEU:HD12	2:I:3368:ARG:NH2	1.96	0.81
2:G:3327:LEU:HD12	2:G:3368:ARG:NH2	1.96	0.81
2:I:3162:GLN:HG3	2:I:3218:VAL:HG13	1.62	0.81
2:A:3162:GLN:HG3	2:A:3218:VAL:HG13	1.63	0.81
2:G:3162:GLN:HG3	2:G:3218:VAL:HG13	1.63	0.81
2:B:3327:LEU:HD12	2:B:3368:ARG:NH2	1.96	0.81
2:A:3205:PHE:HE2	2:A:3276:MET:HE2	1.44	0.81
2:A:3327:LEU:HD12	2:A:3368:ARG:NH2	1.96	0.81
2:B:3201:MET:SD	2:B:3203:VAL:HG12	2.21	0.81
2:I:3205:PHE:CE2	2:I:3276:MET:HE3	2.16	0.81
2:A:3201:MET:SD	2:A:3203:VAL:HG12	2.21	0.81
2:A:3413:ILE:HD11	2:A:3469:PHE:O	1.81	0.81
2:G:2908:TYR:HA	2:G:2911:LEU:HD23	1.63	0.81
2:G:3057:PHE:HB3	2:G:3060:ASP:HB2	1.63	0.81
2:G:3106:MET:HE3	2:G:3110:LEU:HD21	1.59	0.81
2:B:3057:PHE:HB3	2:B:3060:ASP:HB2	1.63	0.81
2:A:2472:LEU:CD1	2:A:2473:PRO:HD2	2.10	0.80
2:B:3413:ILE:HD11	2:B:3469:PHE:O	1.81	0.80
2:I:3413:ILE:HD11	2:I:3469:PHE:O	1.81	0.80
2:B:2908:TYR:HA	2:B:2911:LEU:HD23	1.63	0.80
2:I:2908:TYR:HA	2:I:2911:LEU:HD23	1.63	0.80
1:J:58:GLY:HA2	1:J:61:GLU:CD	2.06	0.80
2:I:2615:ARG:HH21	2:I:2618:MET:CE	1.92	0.80
2:A:2155:LEU:CD1	2:A:2198:MET:HE1	2.10	0.80
2:G:3205:PHE:CE2	2:G:3276:MET:HE3	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2155:LEU:CD1	2:G:2198:MET:HE1	2.10	0.80
1:F:58:GLY:HA2	1:F:61:GLU:CD	2.06	0.80
2:I:2472:LEU:CD1	2:I:2473:PRO:HD2	2.10	0.80
2:G:3201:MET:SD	2:G:3203:VAL:HG12	2.21	0.80
2:B:3205:PHE:CE2	2:B:3276:MET:CE	2.64	0.80
1:O:58:GLY:HA2	1:O:61:GLU:CD	2.06	0.79
2:I:3197:LEU:O	2:I:3197:LEU:HD23	1.83	0.79
2:I:3201:MET:SD	2:I:3203:VAL:HG12	2.21	0.79
2:I:4791:TYR:HE1	2:I:4818:MET:CE	1.89	0.79
2:A:3141:THR:OG1	2:A:3193:CYS:SG	2.40	0.79
2:G:3141:THR:OG1	2:G:3193:CYS:SG	2.40	0.79
2:B:3309:SER:HB2	2:B:3348:ARG:CZ	2.09	0.79
2:B:3162:GLN:HG3	2:B:3218:VAL:HG13	1.63	0.79
2:B:3205:PHE:HE2	2:B:3276:MET:HE2	1.44	0.79
2:B:3141:THR:OG1	2:B:3193:CYS:SG	2.40	0.79
2:A:2321:ILE:HG13	2:A:2322:GLY:H	1.48	0.79
2:A:3205:PHE:CE2	2:A:3276:MET:CE	2.64	0.79
2:B:2321:ILE:HG13	2:B:2322:GLY:H	1.48	0.79
2:B:3104:GLU:O	2:B:3108:GLU:HG2	1.83	0.79
2:I:3141:THR:OG1	2:I:3193:CYS:SG	2.40	0.79
2:I:3205:PHE:CE2	2:I:3276:MET:CE	2.64	0.79
2:A:3104:GLU:O	2:A:3108:GLU:HG2	1.83	0.79
2:G:2527:LEU:HA	2:G:2530:MET:HE3	1.65	0.79
2:I:3104:GLU:O	2:I:3108:GLU:HG2	1.83	0.79
2:G:3104:GLU:O	2:G:3108:GLU:HG2	1.83	0.79
2:G:3197:LEU:O	2:G:3197:LEU:HD23	1.83	0.79
2:I:2098:VAL:CA	2:I:2101:MET:HE2	2.13	0.79
2:G:3205:PHE:CE2	2:G:3276:MET:CE	2.64	0.78
2:A:2527:LEU:HA	2:A:2530:MET:HE3	1.65	0.78
2:A:4049:VAL:HG21	2:A:4159:ARG:HD2	1.64	0.78
2:B:4092:ASP:HA	2:B:4095:LYS:HZ3	0.97	0.78
2:I:2527:LEU:HA	2:I:2530:MET:HE3	1.65	0.78
2:I:3309:SER:HB2	2:I:3348:ARG:CZ	2.09	0.78
2:G:2377:LEU:HA	2:G:2469:ILE:HD11	1.66	0.78
2:G:3327:LEU:HD21	2:G:3364:ARG:NH1	1.98	0.78
2:A:3197:LEU:O	2:A:3197:LEU:HD23	1.83	0.78
2:G:3150:HIS:HB2	2:G:3152:PHE:CE1	2.18	0.78
2:I:2867:LEU:HD13	2:I:2928:LYS:HA	1.65	0.78
2:A:4823:LEU:CD1	2:B:4839:MET:HB3	2.14	0.78
2:B:3150:HIS:HB2	2:B:3152:PHE:CE1	2.18	0.78
2:I:4049:VAL:HG21	2:I:4159:ARG:HD2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2867:LEU:HD13	2:A:2928:LYS:HA	1.65	0.78
2:B:3327:LEU:HD21	2:B:3364:ARG:NH1	1.98	0.78
2:A:1947:CYS:SG	2:A:2127:GLN:NE2	2.57	0.78
2:A:3150:HIS:HB2	2:A:3152:PHE:CE1	2.18	0.78
2:G:2098:VAL:CA	2:G:2101:MET:HE2	2.13	0.78
2:G:2697:ARG:CA	2:G:2700:MET:HE2	2.14	0.78
2:G:3050:VAL:HG22	2:G:3057:PHE:HE2	1.49	0.78
2:B:3197:LEU:O	2:B:3197:LEU:HD23	1.83	0.78
2:B:4049:VAL:HG21	2:B:4159:ARG:HD2	1.64	0.78
2:I:2697:ARG:CA	2:I:2700:MET:HE2	2.14	0.78
2:A:2377:LEU:HA	2:A:2469:ILE:HD11	1.66	0.78
2:I:2321:ILE:HG13	2:I:2322:GLY:H	1.48	0.78
2:I:3187:ARG:NH1	2:I:3267:PRO:HB2	1.99	0.78
2:B:2500:ALA:N	2:B:2553:TYR:HE1	1.82	0.78
2:A:4045:VAL:HG12	2:A:4159:ARG:HE	1.46	0.78
2:I:3150:HIS:HB2	2:I:3152:PHE:CE1	2.18	0.78
2:I:3395:ARG:HH21	2:I:3454:GLU:HB2	1.49	0.78
2:B:2615:ARG:HH21	2:B:2618:MET:CE	1.92	0.77
2:I:1947:CYS:SG	2:I:2127:GLN:NE2	2.57	0.77
2:I:3050:VAL:HG22	2:I:3057:PHE:HE2	1.49	0.77
2:G:2867:LEU:HD13	2:G:2928:LYS:HA	1.65	0.77
2:G:3187:ARG:NH1	2:G:3267:PRO:HB2	1.99	0.77
2:I:3327:LEU:HD21	2:I:3364:ARG:NH1	1.98	0.77
2:A:3327:LEU:HD21	2:A:3364:ARG:NH1	1.98	0.77
2:A:4060:LYS:HE3	2:A:4107:GLU:OE1	1.84	0.77
2:B:2377:LEU:HA	2:B:2469:ILE:HD11	1.66	0.77
2:B:2527:LEU:HA	2:B:2530:MET:HE3	1.65	0.77
2:G:1947:CYS:SG	2:G:2127:GLN:NE2	2.57	0.77
2:G:2321:ILE:HG13	2:G:2322:GLY:H	1.48	0.77
2:A:2098:VAL:CA	2:A:2101:MET:HE2	2.13	0.77
2:G:4060:LYS:HE3	2:G:4107:GLU:OE1	1.84	0.77
2:B:1947:CYS:SG	2:B:2127:GLN:NE2	2.57	0.77
2:B:3050:VAL:HG22	2:B:3057:PHE:HE2	1.49	0.77
2:I:4092:ASP:CB	2:I:4095:LYS:NZ	2.47	0.77
2:B:2098:VAL:CA	2:B:2101:MET:HE2	2.13	0.77
2:A:2500:ALA:N	2:A:2553:TYR:HE1	1.82	0.77
2:A:3395:ARG:HH21	2:A:3454:GLU:HB2	1.49	0.77
2:G:4049:VAL:HG21	2:G:4159:ARG:HD2	1.64	0.77
2:I:2377:LEU:HA	2:I:2469:ILE:HD11	1.66	0.77
2:A:3050:VAL:HG22	2:A:3057:PHE:HE2	1.49	0.77
2:I:3205:PHE:HE2	2:I:3276:MET:HE3	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1699:GLU:OE2	2:A:1813:ARG:NH1	2.18	0.77
2:A:3187:ARG:NH1	2:A:3267:PRO:HB2	1.99	0.77
2:B:2867:LEU:HD13	2:B:2928:LYS:HA	1.65	0.77
2:I:3934:TYR:HA	2:I:3999:MET:HE2	1.66	0.77
2:G:3395:ARG:HH21	2:G:3454:GLU:HB2	1.49	0.76
2:A:2615:ARG:NH2	2:A:2618:MET:HE1	1.99	0.76
1:J:2:VAL:CG1	1:J:61:GLU:HG2	2.15	0.76
1:O:2:VAL:CG1	1:O:61:GLU:HG2	2.15	0.76
2:B:2551:ASN:HB3	2:B:2599:GLN:HE22	1.50	0.76
2:B:3934:TYR:HA	2:B:3999:MET:HE2	1.66	0.76
1:F:2:VAL:CG1	1:F:61:GLU:HG2	2.15	0.76
2:A:3309:SER:HB2	2:A:3348:ARG:CZ	2.09	0.76
2:G:1228:ILE:HG22	2:G:1827:ARG:HH11	1.51	0.76
2:G:2500:ALA:N	2:G:2553:TYR:HE1	1.82	0.76
2:G:3934:TYR:HA	2:G:3999:MET:HE2	1.66	0.76
2:B:4060:LYS:HE3	2:B:4107:GLU:OE1	1.84	0.76
2:I:2500:ALA:N	2:I:2553:TYR:HE1	1.82	0.76
2:A:3934:TYR:HA	2:A:3999:MET:HE2	1.66	0.76
2:G:1024:TYR:O	2:G:1032:LYS:NZ	2.19	0.76
2:B:2959:PHE:CE2	2:B:2963:LEU:HD11	2.20	0.76
2:B:4092:ASP:CB	2:B:4095:LYS:NZ	2.47	0.76
2:I:4060:LYS:HE3	2:I:4107:GLU:OE1	1.84	0.76
2:G:2959:PHE:CE2	2:G:2963:LEU:HD11	2.20	0.76
2:A:2551:ASN:HB3	2:A:2599:GLN:HE22	1.50	0.76
2:A:2959:PHE:CE2	2:A:2963:LEU:HD11	2.20	0.76
2:B:3187:ARG:NH1	2:B:3267:PRO:HB2	1.99	0.76
2:G:2967:MET:CE	2:G:3045:LYS:HE2	2.16	0.76
2:G:3205:PHE:HE2	2:G:3276:MET:HE3	1.48	0.76
2:A:1228:ILE:HG22	2:A:1827:ARG:HH11	1.51	0.75
2:B:1024:TYR:O	2:B:1032:LYS:NZ	2.19	0.75
2:B:1228:ILE:HG22	2:B:1827:ARG:HH11	1.51	0.75
1:H:2:VAL:CG1	1:H:61:GLU:HG2	2.15	0.75
2:G:1699:GLU:OE2	2:G:1813:ARG:NH1	2.18	0.75
2:B:3395:ARG:HH21	2:B:3454:GLU:HB2	1.49	0.75
2:I:1699:GLU:OE2	2:I:1813:ARG:NH1	2.18	0.75
2:A:2697:ARG:CA	2:A:2700:MET:HE2	2.14	0.75
2:A:3219:TYR:OH	2:A:3233:PRO:O	2.03	0.75
2:B:1699:GLU:OE2	2:B:1813:ARG:NH1	2.18	0.75
2:B:3205:PHE:HE2	2:B:3276:MET:HE3	1.49	0.75
2:I:5013:MET:CE	2:I:5021:PHE:HB3	2.17	0.75
2:A:2967:MET:CE	2:A:3045:LYS:HE2	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3219:TYR:OH	2:G:3233:PRO:O	2.03	0.75
2:A:2283:ASN:HD22	2:A:2286:LEU:HD12	1.52	0.75
2:G:3309:SER:HB2	2:G:3348:ARG:HH11	1.49	0.75
2:A:1024:TYR:O	2:A:1032:LYS:NZ	2.19	0.75
2:G:3309:SER:HB2	2:G:3348:ARG:CZ	2.09	0.75
2:B:2283:ASN:HD22	2:B:2286:LEU:HD12	1.52	0.75
2:B:3219:TYR:OH	2:B:3233:PRO:O	2.03	0.75
2:I:1024:TYR:O	2:I:1032:LYS:NZ	2.19	0.75
2:I:3219:TYR:OH	2:I:3233:PRO:O	2.03	0.75
2:B:2967:MET:HE3	2:B:3045:LYS:HE2	1.68	0.75
2:B:3425:THR:HG23	2:B:3426:GLU:HG2	1.69	0.75
2:B:4796:MET:CE	2:B:4800:LEU:HG	2.16	0.75
2:A:5013:MET:CE	2:A:5021:PHE:HB3	2.17	0.75
2:G:4796:MET:CE	2:G:4800:LEU:HG	2.16	0.75
2:B:2566:ALA:CA	2:B:2569:PHE:CE1	2.56	0.75
2:I:2959:PHE:CE2	2:I:2963:LEU:HD11	2.20	0.75
2:A:3309:SER:HB2	2:A:3348:ARG:HH11	1.49	0.74
2:A:3425:THR:HG23	2:A:3426:GLU:HG2	1.69	0.74
2:G:2551:ASN:HB3	2:G:2599:GLN:HE22	1.50	0.74
2:I:3425:THR:HG23	2:I:3426:GLU:HG2	1.69	0.74
2:A:4092:ASP:CB	2:A:4095:LYS:NZ	2.47	0.74
2:A:4796:MET:CE	2:A:4800:LEU:HG	2.16	0.74
2:G:3425:THR:HG23	2:G:3426:GLU:HG2	1.69	0.74
1:H:2:VAL:HG11	1:H:61:GLU:CG	2.15	0.74
2:I:2283:ASN:HD22	2:I:2286:LEU:HD12	1.52	0.74
2:I:2551:ASN:HB3	2:I:2599:GLN:HE22	1.50	0.74
2:I:4796:MET:CE	2:I:4800:LEU:HG	2.16	0.74
2:G:2816:MET:CE	2:G:2878:LEU:HD12	2.17	0.74
2:I:1228:ILE:HG22	2:I:1827:ARG:HH11	1.51	0.74
2:I:3035:GLU:HA	2:I:3038:MET:CE	2.17	0.74
2:G:5013:MET:CE	2:G:5021:PHE:HB3	2.17	0.74
2:I:2816:MET:CE	2:I:2878:LEU:HD12	2.17	0.74
2:B:2615:ARG:NH2	2:B:2618:MET:HE1	1.99	0.74
2:B:2697:ARG:CA	2:B:2700:MET:HE2	2.14	0.74
2:I:2967:MET:HE3	2:I:3045:LYS:HE2	1.68	0.74
2:B:2967:MET:CE	2:B:3045:LYS:HE2	2.16	0.74
2:I:4795:TYR:CE1	2:I:4812:HIS:ND1	2.56	0.74
2:G:1943:LEU:CD1	2:G:2101:MET:CE	2.57	0.74
2:G:4795:TYR:CE1	2:G:4812:HIS:ND1	2.56	0.74
2:B:4791:TYR:HE1	2:B:4818:MET:CE	1.89	0.74
2:I:2967:MET:CE	2:I:3045:LYS:HE2	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2:VAL:HG11	1:J:61:GLU:CG	2.15	0.74
2:B:978:THR:OG1	2:B:981:GLN:OE1	2.06	0.74
2:I:978:THR:OG1	2:I:981:GLN:OE1	2.06	0.74
2:I:2615:ARG:NH2	2:I:2618:MET:HE1	1.99	0.74
2:A:2816:MET:CE	2:A:2878:LEU:CD1	2.66	0.73
2:A:3309:SER:HB3	2:A:3348:ARG:NH1	2.01	0.73
2:G:2967:MET:HE3	2:G:3045:LYS:HE2	1.68	0.73
2:B:5013:MET:CE	2:B:5021:PHE:HB3	2.17	0.73
2:A:475:GLN:OE1	2:A:533:ASN:ND2	2.21	0.73
2:A:3035:GLU:HA	2:A:3038:MET:CE	2.17	0.73
2:G:2283:ASN:HD22	2:G:2286:LEU:HD12	1.52	0.73
2:G:2500:ALA:CA	2:G:2553:TYR:HE1	2.01	0.73
2:B:475:GLN:OE1	2:B:533:ASN:ND2	2.21	0.73
2:B:2309:SER:OG	2:B:2320:ASP:OD1	2.06	0.73
2:B:2500:ALA:CA	2:B:2553:TYR:HE1	2.01	0.73
2:B:3035:GLU:HA	2:B:3038:MET:CE	2.17	0.73
2:B:4948:GLU:HA	2:B:4951:LYS:CD	2.18	0.73
2:I:3309:SER:HB3	2:I:3348:ARG:NH1	2.01	0.73
2:G:475:GLN:OE1	2:G:533:ASN:ND2	2.21	0.73
2:G:3281:LEU:HB3	2:G:3312:LEU:HD21	1.70	0.73
2:B:2816:MET:CE	2:B:2878:LEU:HD12	2.17	0.73
2:B:3309:SER:HB3	2:B:3348:ARG:NH1	2.01	0.73
2:A:4634:GLU:HG3	2:A:4639:MET:HG2	1.70	0.73
2:A:4795:TYR:CE1	2:A:4812:HIS:ND1	2.56	0.73
2:G:320:LYS:NZ	2:G:383:HIS:O	2.22	0.73
2:G:3051:ARG:HH11	2:G:3052:HIS:HD2	0.73	0.73
2:A:2739:PRO:HB3	2:A:2888:ARG:HG3	1.71	0.73
2:A:2816:MET:CE	2:A:2878:LEU:HD12	2.17	0.73
2:A:4948:GLU:HA	2:A:4951:LYS:CD	2.18	0.73
2:G:2309:SER:OG	2:G:2320:ASP:OD1	2.06	0.73
2:G:2466:LEU:HD21	2:G:2506:LEU:HB2	1.70	0.73
2:I:1943:LEU:CD1	2:I:2101:MET:CE	2.57	0.73
2:I:4092:ASP:HA	2:I:4095:LYS:HZ3	0.92	0.73
2:I:4948:GLU:HA	2:I:4951:LYS:CD	2.18	0.73
2:A:3281:LEU:HB3	2:A:3312:LEU:HD21	1.70	0.73
2:G:3035:GLU:HA	2:G:3038:MET:CE	2.17	0.73
2:B:4795:TYR:CE1	2:B:4812:HIS:ND1	2.56	0.73
2:I:475:GLN:OE1	2:I:533:ASN:ND2	2.21	0.73
2:B:3842:LEU:HD13	2:B:3954:ALA:HB2	1.71	0.73
2:I:4634:GLU:HG3	2:I:4639:MET:HG2	1.70	0.73
2:G:2739:PRO:HB3	2:G:2888:ARG:HG3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2816:MET:CE	2:G:2878:LEU:CD1	2.66	0.73
2:B:2816:MET:CE	2:B:2878:LEU:CD1	2.66	0.73
2:I:2816:MET:CE	2:I:2878:LEU:CD1	2.66	0.73
2:A:2967:MET:HE3	2:A:3045:LYS:HE2	1.68	0.73
2:G:2472:LEU:HD12	2:G:2473:PRO:CD	2.19	0.73
2:G:3309:SER:HB3	2:G:3348:ARG:NH1	2.02	0.73
2:I:3309:SER:HB2	2:I:3348:ARG:HH11	1.49	0.73
2:B:320:LYS:NZ	2:B:383:HIS:O	2.22	0.72
2:I:2466:LEU:HD21	2:I:2506:LEU:HB2	1.70	0.72
2:A:2466:LEU:HD21	2:A:2506:LEU:HB2	1.69	0.72
2:I:3051:ARG:HH11	2:I:3052:HIS:HD2	0.73	0.72
2:G:978:THR:OG1	2:G:981:GLN:OE1	2.06	0.72
2:G:4948:GLU:HA	2:G:4951:LYS:CD	2.18	0.72
2:B:2472:LEU:HD12	2:B:2473:PRO:CD	2.19	0.72
2:B:2739:PRO:HB3	2:B:2888:ARG:HG3	1.71	0.72
2:I:2566:ALA:CA	2:I:2569:PHE:CE1	2.56	0.72
1:F:2:VAL:HG11	1:F:61:GLU:CG	2.15	0.72
2:A:276:TRP:O	2:A:328:LYS:NZ	2.20	0.72
2:A:2500:ALA:CA	2:A:2553:TYR:HE1	2.01	0.72
2:B:2466:LEU:HD21	2:B:2506:LEU:HB2	1.70	0.72
2:I:2309:SER:OG	2:I:2320:ASP:OD1	2.06	0.72
2:I:2739:PRO:HB3	2:I:2888:ARG:HG3	1.71	0.72
2:A:978:THR:OG1	2:A:981:GLN:OE1	2.06	0.72
2:A:4839:MET:HB3	2:G:4823:LEU:CD1	2.18	0.72
2:G:4092:ASP:CB	2:G:4095:LYS:NZ	2.47	0.72
2:I:3281:LEU:HB3	2:I:3312:LEU:HD21	1.70	0.72
2:A:320:LYS:NZ	2:A:383:HIS:O	2.22	0.72
2:A:2309:SER:OG	2:A:2320:ASP:OD1	2.06	0.72
2:A:3051:ARG:HH11	2:A:3052:HIS:HD2	0.73	0.72
2:G:180:LEU:HB3	2:G:200:TRP:HE1	1.55	0.72
2:G:3842:LEU:HD13	2:G:3954:ALA:HB2	1.71	0.72
2:G:4634:GLU:HG3	2:G:4639:MET:HG2	1.70	0.72
2:B:180:LEU:HB3	2:B:200:TRP:HE1	1.55	0.72
2:B:3281:LEU:HB3	2:B:3312:LEU:HD21	1.70	0.72
2:B:3416:VAL:HG22	2:B:3517:MET:HE1	1.72	0.72
2:I:2472:LEU:HD12	2:I:2473:PRO:CD	2.19	0.72
2:I:2579:VAL:O	2:I:2583:LEU:HG	1.90	0.72
2:B:2579:VAL:O	2:B:2583:LEU:HG	1.90	0.72
2:I:2500:ALA:CA	2:I:2553:TYR:HE1	2.01	0.72
2:I:3416:VAL:HG22	2:I:3517:MET:HE1	1.72	0.72
2:G:2579:VAL:O	2:G:2583:LEU:HG	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3309:SER:HB2	2:B:3348:ARG:HH11	1.49	0.71
2:I:4157:ASP:OD1	2:I:4159:ARG:CG	2.37	0.71
2:A:2579:VAL:O	2:A:2583:LEU:HG	1.90	0.71
2:G:2575:ARG:HH11	2:G:2578:MET:HE3	1.45	0.71
2:G:4092:ASP:CA	2:G:4095:LYS:HZ2	1.85	0.71
2:B:3051:ARG:HH11	2:B:3052:HIS:HD2	0.73	0.71
2:B:4634:GLU:HG3	2:B:4639:MET:HG2	1.70	0.71
2:B:4638:TYR:HA	2:B:4641:PRO:HD2	1.73	0.71
2:I:180:LEU:HB3	2:I:200:TRP:HE1	1.55	0.71
2:I:3842:LEU:HD13	2:I:3954:ALA:HB2	1.71	0.71
2:B:3943:ILE:HD11	2:B:4002:LYS:HE3	1.72	0.71
2:A:4092:ASP:CA	2:A:4095:LYS:HZ2	1.90	0.71
2:A:4157:ASP:OD1	2:A:4159:ARG:CG	2.37	0.71
2:A:4638:TYR:HA	2:A:4641:PRO:HD2	1.73	0.71
2:I:320:LYS:NZ	2:I:383:HIS:O	2.22	0.71
2:A:2024:PRO:HD2	2:A:2027:ILE:HD12	1.73	0.71
2:A:2472:LEU:HD12	2:A:2473:PRO:CD	2.19	0.71
2:B:2906:VAL:HG23	2:B:2911:LEU:HD22	1.72	0.71
2:B:4791:TYR:OH	2:B:4815:ASP:OD1	2.08	0.71
2:I:2575:ARG:HH12	2:I:2578:MET:CE	1.79	0.71
1:O:2:VAL:HG11	1:O:61:GLU:CG	2.15	0.71
2:G:2566:ALA:CA	2:G:2569:PHE:CE1	2.56	0.71
1:O:31:GLN:HA	1:O:98:ILE:CD1	2.21	0.71
2:I:5013:MET:HE3	2:I:5021:PHE:HB3	1.73	0.71
2:B:5013:MET:HE3	2:B:5021:PHE:HB3	1.73	0.71
2:A:2566:ALA:CA	2:A:2569:PHE:CE1	2.56	0.70
2:G:3416:VAL:HG22	2:G:3517:MET:HE1	1.72	0.70
2:B:2024:PRO:HD2	2:B:2027:ILE:HD12	1.73	0.70
2:I:2584:HIS:CD2	2:I:2625:ARG:HD2	2.26	0.70
2:I:4791:TYR:OH	2:I:4815:ASP:OD1	2.08	0.70
2:G:4791:TYR:OH	2:G:4815:ASP:OD1	2.08	0.70
2:B:3627:GLN:NE2	2:B:3859:VAL:O	2.24	0.70
2:I:2751:LEU:HG	2:I:2754:PHE:HB3	1.73	0.70
2:A:180:LEU:HB3	2:A:200:TRP:HE1	1.55	0.70
2:A:1993:ARG:CB	2:A:1994:ARG:HH21	2.04	0.70
2:A:3842:LEU:HD13	2:A:3954:ALA:HB2	1.71	0.70
2:G:3627:GLN:NE2	2:G:3859:VAL:O	2.24	0.70
2:G:3943:ILE:HD11	2:G:4002:LYS:HE3	1.72	0.70
2:I:3627:GLN:NE2	2:I:3859:VAL:O	2.24	0.70
1:J:31:GLN:HA	1:J:98:ILE:CD1	2.21	0.70
2:G:4638:TYR:HA	2:G:4641:PRO:HD2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1943:LEU:CD1	2:B:2101:MET:CE	2.57	0.70
2:B:2894:LEU:CA	2:B:2897:LYS:HZ2	1.98	0.70
2:B:3227:ARG:HA	2:B:3232:LEU:HD13	1.74	0.70
2:I:3943:ILE:HD11	2:I:4002:LYS:HE3	1.72	0.70
2:A:29:LEU:O	2:A:31:GLU:OE1	2.10	0.70
2:A:2584:HIS:CD2	2:A:2625:ARG:HD2	2.26	0.70
1:J:58:GLY:HA2	1:J:61:GLU:OE2	1.92	0.70
1:O:58:GLY:HA2	1:O:61:GLU:OE2	1.92	0.70
2:G:2024:PRO:HD2	2:G:2027:ILE:HD12	1.73	0.70
2:G:2615:ARG:NH2	2:G:2618:MET:HE1	1.99	0.70
2:B:1993:ARG:CB	2:B:1994:ARG:HH21	2.04	0.70
2:B:4157:ASP:OD1	2:B:4159:ARG:CG	2.37	0.70
2:I:2098:VAL:HA	2:I:2101:MET:CE	2.21	0.70
2:A:707:VAL:HG23	2:A:782:SER:HB3	1.73	0.70
2:A:3943:ILE:HD11	2:A:4002:LYS:HE3	1.72	0.70
2:A:4627:MET:HG3	2:A:4628:VAL:H	1.57	0.70
1:H:31:GLN:HA	1:H:98:ILE:CD1	2.21	0.70
2:G:2185:ILE:HG21	2:G:2203:MET:HE1	1.74	0.70
2:B:2751:LEU:HG	2:B:2754:PHE:HB3	1.74	0.70
2:I:29:LEU:O	2:I:31:GLU:OE1	2.10	0.70
2:A:2906:VAL:HG23	2:A:2911:LEU:HD22	1.72	0.70
2:A:3416:VAL:HG22	2:A:3517:MET:HE1	1.72	0.70
1:F:31:GLN:HA	1:F:98:ILE:CD1	2.21	0.70
2:A:3416:VAL:HG21	2:A:3517:MET:HE2	1.74	0.70
2:A:3627:GLN:NE2	2:A:3859:VAL:O	2.24	0.70
2:G:29:LEU:O	2:G:31:GLU:OE1	2.10	0.70
2:G:4157:ASP:OD1	2:G:4159:ARG:CG	2.37	0.70
2:B:707:VAL:HG23	2:B:782:SER:HB3	1.73	0.70
2:B:2584:HIS:CD2	2:B:2625:ARG:HD2	2.26	0.70
2:I:3843:ASP:OD1	2:I:3844:LEU:N	2.25	0.70
2:I:4979:THR:HG21	3:I:5301:ATP:H2'	1.73	0.70
2:A:4791:TYR:OH	2:A:4815:ASP:OD1	2.08	0.70
2:G:2584:HIS:CD2	2:G:2625:ARG:HD2	2.26	0.70
2:B:4979:THR:HG21	3:B:5301:ATP:H2'	1.73	0.70
2:I:2788:HIS:NE2	2:I:2790:MET:HG3	2.06	0.70
2:I:2906:VAL:HG23	2:I:2911:LEU:HD22	1.72	0.70
2:A:2098:VAL:HA	2:A:2101:MET:CE	2.21	0.69
2:A:3843:ASP:OD1	2:A:3844:LEU:N	2.25	0.69
2:G:3416:VAL:HG21	2:G:3517:MET:HE2	1.74	0.69
2:G:3843:ASP:OD1	2:G:3844:LEU:N	2.25	0.69
2:G:4627:MET:HG3	2:G:4628:VAL:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3227:ARG:HA	2:I:3232:LEU:HD13	1.74	0.69
2:A:3227:ARG:HA	2:A:3232:LEU:HD13	1.74	0.69
1:H:58:GLY:HA2	1:H:61:GLU:OE2	1.92	0.69
2:G:1170:MET:CE	2:G:1176:GLU:OE2	2.41	0.69
2:G:2906:VAL:HG23	2:G:2911:LEU:HD22	1.72	0.69
2:B:4627:MET:HG3	2:B:4628:VAL:H	1.57	0.69
2:A:2185:ILE:HG21	2:A:2203:MET:HE1	1.74	0.69
2:B:29:LEU:O	2:B:31:GLU:OE1	2.10	0.69
2:B:886:ARG:HE	2:B:904:HIS:HB2	1.56	0.69
2:I:317:ARG:NH1	2:I:321:GLU:O	2.26	0.69
2:I:886:ARG:HE	2:I:904:HIS:HB2	1.56	0.69
2:I:2024:PRO:HD2	2:I:2027:ILE:HD12	1.73	0.69
2:I:3416:VAL:HG21	2:I:3517:MET:HE2	1.74	0.69
2:I:4638:TYR:HA	2:I:4641:PRO:HD2	1.73	0.69
1:F:58:GLY:HA2	1:F:61:GLU:OE2	1.92	0.69
2:A:886:ARG:HE	2:A:904:HIS:HB2	1.56	0.69
2:G:317:ARG:NH1	2:G:321:GLU:O	2.26	0.69
2:G:1993:ARG:CB	2:G:1994:ARG:HH21	2.04	0.69
2:G:2788:HIS:NE2	2:G:2790:MET:SD	2.65	0.69
2:I:1170:MET:CE	2:I:1176:GLU:OE2	2.40	0.69
2:A:5013:MET:HE3	2:A:5021:PHE:HB3	1.73	0.69
2:G:5013:MET:HE3	2:G:5021:PHE:HB3	1.73	0.69
2:B:1810:LYS:HG2	2:B:1814:MET:HE2	1.75	0.69
2:B:3416:VAL:HG21	2:B:3517:MET:HE2	1.74	0.69
2:A:2788:HIS:NE2	2:A:2790:MET:SD	2.65	0.69
2:G:707:VAL:HG23	2:G:782:SER:HB3	1.73	0.69
2:B:3843:ASP:OD1	2:B:3844:LEU:N	2.25	0.69
2:B:4074:SER:O	2:B:4078:GLN:NE2	2.26	0.69
2:A:2452:ARG:NH2	2:B:144:GLU:OE1	2.25	0.69
2:A:2751:LEU:HG	2:A:2754:PHE:HB3	1.74	0.69
2:G:924:MET:HE2	2:G:924:MET:CA	2.23	0.69
2:G:2760:GLU:OE2	2:G:2802:LYS:NZ	2.26	0.69
2:G:4074:SER:O	2:G:4078:GLN:NE2	2.26	0.69
2:B:2760:GLU:OE2	2:B:2802:LYS:NZ	2.26	0.69
2:I:1810:LYS:HG2	2:I:1814:MET:HE2	1.75	0.69
2:I:1993:ARG:CB	2:I:1994:ARG:HH21	2.04	0.69
2:A:924:MET:HA	2:A:924:MET:CE	2.23	0.69
2:A:2760:GLU:OE2	2:A:2802:LYS:NZ	2.26	0.69
2:G:1810:LYS:HG2	2:G:1814:MET:HE2	1.75	0.69
2:G:4979:THR:HG21	3:G:5301:ATP:H2'	1.73	0.69
2:G:3813:GLN:O	2:G:3899:PHE:CZ	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2185:ILE:HG21	2:B:2203:MET:HE1	1.74	0.69
2:I:2185:ILE:HG21	2:I:2203:MET:HE1	1.74	0.69
2:I:4074:SER:O	2:I:4078:GLN:NE2	2.26	0.69
2:G:886:ARG:HE	2:G:904:HIS:HB2	1.56	0.68
2:I:2302:LEU:HD23	2:I:2363:CYS:HB3	1.75	0.68
2:I:2788:HIS:NE2	2:I:2790:MET:SD	2.65	0.68
2:A:1170:MET:CE	2:A:1176:GLU:OE2	2.40	0.68
2:A:4979:THR:HG21	3:A:5301:ATP:H2'	1.73	0.68
2:G:276:TRP:O	2:G:328:LYS:NZ	2.20	0.68
2:G:2098:VAL:HA	2:G:2101:MET:CE	2.21	0.68
2:G:4036:VAL:HB	2:G:5035:GLN:HG3	1.74	0.68
2:B:317:ARG:NH1	2:B:321:GLU:O	2.26	0.68
2:A:2470:ILE:HG22	2:A:2525:GLY:HA3	1.76	0.68
2:G:3227:ARG:HA	2:G:3232:LEU:HD13	1.74	0.68
2:B:2499:LYS:NZ	2:B:2529:ASP:OD2	2.27	0.68
2:B:2788:HIS:NE2	2:B:2790:MET:SD	2.65	0.68
2:A:1810:LYS:HG2	2:A:1814:MET:HE2	1.75	0.68
2:B:2470:ILE:HG22	2:B:2525:GLY:HA3	1.76	0.68
2:I:707:VAL:HG23	2:I:782:SER:HB3	1.73	0.68
2:A:317:ARG:NH1	2:A:321:GLU:O	2.26	0.68
2:G:2751:LEU:HG	2:G:2754:PHE:HB3	1.74	0.68
2:G:4092:ASP:CG	2:G:4095:LYS:HZ3	2.00	0.68
2:B:2754:PHE:HA	2:B:2758:PHE:HB2	1.76	0.68
2:I:796:ARG:O	2:I:1619:ARG:NH2	2.27	0.68
2:I:2527:LEU:HA	2:I:2530:MET:CE	2.24	0.68
2:G:882:TRP:O	2:G:886:ARG:NH2	2.27	0.68
2:G:2490:MET:HE3	2:G:2546:MET:SD	2.34	0.68
2:B:1170:MET:CE	2:B:1176:GLU:OE2	2.41	0.68
2:B:4823:LEU:CD1	2:I:4839:MET:HB3	2.23	0.68
2:I:924:MET:HA	2:I:924:MET:CE	2.23	0.68
2:I:2754:PHE:HA	2:I:2758:PHE:HB2	1.76	0.68
2:A:882:TRP:O	2:A:886:ARG:NH2	2.27	0.68
2:A:2348:GLU:N	2:A:2348:GLU:OE2	2.26	0.68
2:B:2302:LEU:HD23	2:B:2363:CYS:HB3	1.75	0.68
2:I:4627:MET:HG3	2:I:4628:VAL:H	1.57	0.68
2:A:2754:PHE:HA	2:A:2758:PHE:HB2	1.76	0.68
2:G:2754:PHE:HA	2:G:2758:PHE:HB2	1.76	0.68
2:G:2788:HIS:NE2	2:G:2790:MET:HG3	2.06	0.68
2:G:2470:ILE:HG22	2:G:2525:GLY:HA3	1.76	0.68
2:B:276:TRP:O	2:B:328:LYS:NZ	2.20	0.68
2:B:2490:MET:HE3	2:B:2546:MET:SD	2.34	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4036:VAL:HB	2:I:5035:GLN:HG3	1.74	0.68
2:I:4876:CYS:HA	2:I:4882:CYS:HB2	1.76	0.68
2:A:4036:VAL:HB	2:A:5035:GLN:HG3	1.74	0.67
2:I:2490:MET:HE3	2:I:2546:MET:SD	2.34	0.67
2:A:1943:LEU:CD1	2:A:2101:MET:CE	2.57	0.67
2:A:2527:LEU:HA	2:A:2530:MET:CE	2.24	0.67
1:O:19:GLY:CA	1:O:49:ARG:HH21	2.07	0.67
2:I:924:MET:HE2	2:I:924:MET:CA	2.23	0.67
2:A:2998:PHE:HA	2:A:3002:LEU:HD12	1.76	0.67
2:G:2302:LEU:HD23	2:G:2363:CYS:HB3	1.75	0.67
2:G:4839:MET:HB3	2:I:4823:LEU:CD1	2.23	0.67
2:I:2615:ARG:HG2	2:I:2664:PHE:CE2	2.29	0.67
2:A:4074:SER:O	2:A:4078:GLN:NE2	2.26	0.67
2:G:2348:GLU:OE2	2:G:2348:GLU:N	2.26	0.67
2:G:2527:LEU:HA	2:G:2530:MET:CE	2.24	0.67
2:B:2527:LEU:HA	2:B:2530:MET:CE	2.24	0.67
2:I:2760:GLU:OE2	2:I:2802:LYS:NZ	2.26	0.67
2:G:4651:THR:HG23	2:G:4796:MET:HE1	1.77	0.67
2:B:2452:ARG:NH2	2:I:144:GLU:OE1	2.28	0.67
2:B:2615:ARG:HG2	2:B:2664:PHE:CE2	2.30	0.67
2:B:2998:PHE:HA	2:B:3002:LEU:HD12	1.76	0.67
2:B:4036:VAL:HB	2:B:5035:GLN:HG3	1.75	0.67
2:A:24:CYS:SG	2:A:200:TRP:CZ3	2.88	0.67
2:A:2490:MET:HE3	2:A:2546:MET:SD	2.34	0.67
2:G:4876:CYS:HA	2:G:4882:CYS:HB2	1.76	0.67
2:B:924:MET:HA	2:B:924:MET:CE	2.23	0.67
2:I:2348:GLU:N	2:I:2348:GLU:OE2	2.26	0.67
2:I:2470:ILE:HG22	2:I:2525:GLY:HA3	1.76	0.67
2:A:2302:LEU:HD23	2:A:2363:CYS:HB3	1.75	0.67
2:A:2499:LYS:NZ	2:A:2529:ASP:OD2	2.27	0.67
2:G:796:ARG:O	2:G:1619:ARG:NH2	2.27	0.67
2:I:2750:LYS:HD3	2:I:2823:ILE:HA	1.77	0.67
2:A:144:GLU:OE1	2:G:2452:ARG:NH2	2.28	0.67
2:I:4189:ARG:NH1	2:I:4189:ARG:HB2	2.10	0.67
2:I:4651:THR:HG23	2:I:4796:MET:HE1	1.77	0.67
2:A:796:ARG:O	2:A:1619:ARG:NH2	2.27	0.67
2:A:2788:HIS:NE2	2:A:2790:MET:HG3	2.06	0.67
2:G:24:CYS:SG	2:G:200:TRP:CZ3	2.88	0.67
2:G:2615:ARG:HG2	2:G:2664:PHE:CE2	2.29	0.67
2:B:924:MET:HE2	2:B:924:MET:CA	2.23	0.67
2:B:2499:LYS:O	2:B:2502:MET:HG2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2788:HIS:NE2	2:B:2790:MET:HG3	2.06	0.67
2:A:2615:ARG:HG2	2:A:2664:PHE:CE2	2.30	0.67
2:G:2499:LYS:NZ	2:G:2529:ASP:OD2	2.27	0.67
2:I:868:GLU:HA	2:I:871:ARG:HB2	1.77	0.67
2:I:882:TRP:O	2:I:886:ARG:NH2	2.27	0.67
2:I:2499:LYS:O	2:I:2502:MET:HG2	1.95	0.67
2:A:2499:LYS:O	2:A:2502:MET:HG2	1.95	0.66
2:G:2778:GLY:HA3	2:G:2788:HIS:H	1.60	0.66
2:B:868:GLU:HA	2:B:871:ARG:HB2	1.77	0.66
2:B:882:TRP:O	2:B:886:ARG:NH2	2.27	0.66
2:B:2750:LYS:HD3	2:B:2823:ILE:HA	1.77	0.66
2:I:2499:LYS:NZ	2:I:2529:ASP:OD2	2.27	0.66
2:A:924:MET:HE2	2:A:924:MET:CA	2.23	0.66
2:A:2713:ASP:OD1	2:A:3016:TYR:OH	2.12	0.66
2:G:2645:THR:OG1	2:G:2702:CYS:SG	2.51	0.66
2:B:24:CYS:SG	2:B:200:TRP:CZ3	2.88	0.66
2:G:868:GLU:HA	2:G:871:ARG:HB2	1.77	0.66
2:G:939:VAL:HB	2:G:1051:TYR:HB3	1.78	0.66
2:B:4189:ARG:NH1	2:B:4189:ARG:HB2	2.10	0.66
2:B:4791:TYR:OH	2:B:4818:MET:CE	2.38	0.66
2:I:939:VAL:HB	2:I:1051:TYR:HB3	1.78	0.66
2:I:3817:LEU:HB2	2:I:3899:PHE:CE1	2.31	0.66
2:G:144:GLU:OE1	2:I:2452:ARG:NH2	2.28	0.66
2:G:4189:ARG:HB2	2:G:4189:ARG:NH1	2.10	0.66
2:B:4876:CYS:HA	2:B:4882:CYS:HB2	1.76	0.66
2:I:2998:PHE:HA	2:I:3002:LEU:HD12	1.76	0.66
2:G:2499:LYS:O	2:G:2502:MET:HG2	1.95	0.66
2:I:276:TRP:O	2:I:328:LYS:NZ	2.20	0.66
2:I:2778:GLY:HA3	2:I:2788:HIS:H	1.60	0.66
2:A:4189:ARG:NH1	2:A:4189:ARG:HB2	2.10	0.66
2:A:4651:THR:HG23	2:A:4796:MET:HE1	1.77	0.66
2:G:622:THR:HG23	2:G:626:LEU:HD12	1.78	0.66
2:B:3813:GLN:O	2:B:3899:PHE:CZ	2.40	0.66
2:I:622:THR:HG23	2:I:626:LEU:HD12	1.78	0.66
2:I:3230:LEU:HB2	2:I:3232:LEU:HD11	1.78	0.66
2:A:868:GLU:HA	2:A:871:ARG:HB2	1.77	0.66
2:I:3836:MET:CE	2:I:3885:PHE:HE1	2.09	0.66
1:F:19:GLY:CA	1:F:49:ARG:HH21	2.07	0.66
2:A:177:GLU:O	2:G:2359:ARG:NH2	2.28	0.66
2:A:3230:LEU:HB2	2:A:3232:LEU:HD11	1.78	0.66
2:A:3813:GLN:O	2:A:3899:PHE:CZ	2.40	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:2:VAL:CG1	1:O:61:GLU:CG	2.74	0.66
2:G:3230:LEU:HB2	2:G:3232:LEU:HD11	1.78	0.66
2:B:939:VAL:HB	2:B:1051:TYR:HB3	1.78	0.66
2:A:2750:LYS:HD3	2:A:2823:ILE:HA	1.77	0.66
2:G:2998:PHE:HA	2:G:3002:LEU:HD12	1.76	0.66
2:B:2098:VAL:HA	2:B:2101:MET:CE	2.21	0.66
2:B:4651:THR:HG23	2:B:4796:MET:HE1	1.77	0.66
2:I:24:CYS:SG	2:I:200:TRP:CZ3	2.88	0.66
2:I:3813:GLN:O	2:I:3899:PHE:CZ	2.40	0.66
2:A:3312:LEU:HD12	2:A:3348:ARG:HG2	1.78	0.66
1:H:2:VAL:CG1	1:H:61:GLU:CG	2.74	0.66
2:G:2750:LYS:HD3	2:G:2823:ILE:HA	1.77	0.66
2:G:3817:LEU:HB2	2:G:3899:PHE:CE1	2.31	0.66
2:G:3847:PHE:O	2:G:3851:ASN:ND2	2.29	0.66
2:B:1948:ASP:OD2	2:B:2126:ARG:NH2	2.22	0.66
2:A:622:THR:HG23	2:A:626:LEU:HD12	1.78	0.65
2:A:3551:GLU:HA	2:A:3554:GLN:OE1	1.97	0.65
2:A:4876:CYS:HA	2:A:4882:CYS:HB2	1.76	0.65
2:B:2348:GLU:N	2:B:2348:GLU:OE2	2.26	0.65
2:B:3817:LEU:HB2	2:B:3899:PHE:CE1	2.31	0.65
2:I:4791:TYR:CE1	2:I:4818:MET:HE1	2.28	0.65
2:A:939:VAL:HB	2:A:1051:TYR:HB3	1.78	0.65
2:A:3817:LEU:HB2	2:A:3899:PHE:CE1	2.31	0.65
2:A:3847:PHE:O	2:A:3851:ASN:ND2	2.30	0.65
2:B:2753:SER:O	2:B:2757:LYS:N	2.29	0.65
2:B:3235:SER:O	2:B:3239:MET:HE1	1.97	0.65
2:I:2470:ILE:CD1	2:I:2502:MET:HG3	2.27	0.65
2:I:3551:GLU:HA	2:I:3554:GLN:OE1	1.97	0.65
1:F:2:VAL:CG1	1:F:61:GLU:CG	2.74	0.65
2:A:2778:GLY:HA3	2:A:2788:HIS:H	1.60	0.65
2:G:3312:LEU:HD12	2:G:3348:ARG:HG2	1.78	0.65
2:A:4092:ASP:CG	2:A:4095:LYS:HZ3	2.04	0.65
2:G:1115:LEU:HD23	2:G:1123:VAL:HG11	1.79	0.65
2:G:2470:ILE:CD1	2:G:2502:MET:HG3	2.27	0.65
2:B:2778:GLY:HA3	2:B:2788:HIS:H	1.60	0.65
2:B:3551:GLU:HA	2:B:3554:GLN:OE1	1.97	0.65
2:B:3847:PHE:O	2:B:3851:ASN:ND2	2.30	0.65
2:A:663:TYR:OH	2:A:665:GLU:OE2	2.13	0.65
2:A:1115:LEU:HD23	2:A:1123:VAL:HG11	1.79	0.65
2:A:2470:ILE:CD1	2:A:2502:MET:HG3	2.27	0.65
2:A:3812:VAL:O	2:A:3816:MET:HG3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2753:SER:O	2:G:2757:LYS:N	2.29	0.65
2:B:2470:ILE:CD1	2:B:2502:MET:HG3	2.27	0.65
2:I:4205:TRP:HZ3	2:I:4989:MET:HE1	1.62	0.65
2:A:3205:PHE:HE2	2:A:3276:MET:HE3	1.48	0.65
2:G:4677:LEU:HD12	2:G:4677:LEU:O	1.97	0.65
2:B:796:ARG:O	2:B:1619:ARG:NH2	2.27	0.65
2:I:317:ARG:NH2	2:I:349:GLN:OE1	2.29	0.65
2:I:981:GLN:HE21	2:I:1047:LEU:HD21	1.62	0.65
2:I:2627:VAL:HG12	2:I:2678:LEU:HD13	1.79	0.65
2:A:3836:MET:CE	2:A:3885:PHE:HE1	2.09	0.65
2:G:214:VAL:C	2:G:274:LEU:HD13	2.22	0.65
2:G:3812:VAL:O	2:G:3816:MET:HG3	1.97	0.65
2:I:69:LEU:HD21	2:I:202:MET:HE2	1.79	0.65
2:I:214:VAL:C	2:I:274:LEU:HD13	2.22	0.65
2:I:4677:LEU:HD12	2:I:4677:LEU:O	1.97	0.65
2:A:3235:SER:O	2:A:3239:MET:HE1	1.97	0.65
2:B:1272:LEU:HD22	2:B:1289:LEU:HD11	1.79	0.65
2:B:2575:ARG:HH11	2:B:2578:MET:HE3	1.45	0.65
2:B:3312:LEU:HD12	2:B:3348:ARG:HG2	1.78	0.65
2:B:3812:VAL:O	2:B:3816:MET:HG3	1.97	0.65
2:B:4878:ASP:OD1	2:B:4879:MET:N	2.30	0.65
2:I:1115:LEU:HD23	2:I:1123:VAL:HG11	1.79	0.65
2:I:1272:LEU:HD22	2:I:1289:LEU:HD11	1.79	0.65
2:I:3812:VAL:O	2:I:3816:MET:HG3	1.97	0.65
2:I:4878:ASP:OD1	2:I:4879:MET:N	2.30	0.65
1:J:2:VAL:CG1	1:J:61:GLU:CG	2.74	0.64
2:G:4045:VAL:HG11	2:G:4159:ARG:HE	1.61	0.64
2:G:4205:TRP:HZ3	2:G:4989:MET:HE1	1.62	0.64
2:B:622:THR:HG23	2:B:626:LEU:HD12	1.78	0.64
2:B:1115:LEU:HD23	2:B:1123:VAL:HG11	1.79	0.64
2:I:2595:LEU:CD2	2:I:2599:GLN:NE2	2.60	0.64
2:A:4205:TRP:HZ3	2:A:4989:MET:HE1	1.62	0.64
2:G:2627:VAL:HG12	2:G:2678:LEU:HD13	1.79	0.64
2:B:214:VAL:C	2:B:274:LEU:HD13	2.22	0.64
2:B:317:ARG:NH2	2:B:349:GLN:OE1	2.29	0.64
2:B:2575:ARG:NH1	2:B:2578:MET:HE1	1.87	0.64
2:B:3230:LEU:HB2	2:B:3232:LEU:HD11	1.78	0.64
1:H:19:GLY:CA	1:H:49:ARG:HH21	2.07	0.64
2:B:3817:LEU:HB2	2:B:3899:PHE:CZ	2.32	0.64
2:B:4205:TRP:HZ3	2:B:4989:MET:HE1	1.62	0.64
2:I:1420:ASN:OD1	2:I:1421:ARG:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3312:LEU:HD12	2:I:3348:ARG:HG2	1.78	0.64
2:A:2595:LEU:CD2	2:A:2599:GLN:NE2	2.60	0.64
2:G:3235:SER:O	2:G:3239:MET:HE1	1.97	0.64
2:B:2962:GLN:O	2:B:2966:TRP:HE3	1.81	0.64
2:I:3235:SER:O	2:I:3239:MET:HE1	1.97	0.64
2:I:3817:LEU:HB2	2:I:3899:PHE:CZ	2.32	0.64
2:A:2575:ARG:NH1	2:A:2578:MET:HE1	1.87	0.64
2:B:1420:ASN:OD1	2:B:1421:ARG:N	2.30	0.64
2:B:2595:LEU:CD2	2:B:2599:GLN:CD	2.71	0.64
2:B:2595:LEU:CD2	2:B:2599:GLN:NE2	2.60	0.64
2:B:3173:TYR:HE1	2:B:3244:PRO:HD3	1.63	0.64
2:I:3847:PHE:O	2:I:3851:ASN:ND2	2.30	0.64
2:A:317:ARG:NH2	2:A:349:GLN:OE1	2.29	0.64
2:A:2962:GLN:O	2:A:2966:TRP:HE3	1.81	0.64
2:A:3817:LEU:HB2	2:A:3899:PHE:CZ	2.32	0.64
2:G:924:MET:HA	2:G:924:MET:CE	2.23	0.64
2:G:3551:GLU:HA	2:G:3554:GLN:OE1	1.97	0.64
2:B:2627:VAL:HG12	2:B:2678:LEU:HD13	1.79	0.64
2:I:2595:LEU:CD2	2:I:2599:GLN:CD	2.71	0.64
2:I:2962:GLN:O	2:I:2966:TRP:HE3	1.81	0.64
2:I:3327:LEU:CD1	2:I:3368:ARG:HH21	2.04	0.64
2:I:4045:VAL:HG11	2:I:4159:ARG:HE	1.61	0.64
2:G:1420:ASN:OD1	2:G:1421:ARG:N	2.30	0.64
2:G:3817:LEU:HB2	2:G:3899:PHE:CZ	2.32	0.64
2:G:4878:ASP:OD1	2:G:4879:MET:N	2.30	0.64
2:A:1948:ASP:OD2	2:A:2126:ARG:NH2	2.22	0.64
2:A:3270:ILE:HA	2:A:3274:LEU:CD1	2.28	0.64
2:G:2595:LEU:CD2	2:G:2599:GLN:NE2	2.60	0.64
2:B:4677:LEU:HD12	2:B:4677:LEU:O	1.97	0.64
2:I:2645:THR:OG1	2:I:2702:CYS:SG	2.51	0.64
2:I:4056:GLU:HG2	2:I:4166:LEU:HD22	1.80	0.64
2:A:2753:SER:O	2:A:2757:LYS:N	2.29	0.64
2:A:2754:PHE:CE1	2:A:2813:LEU:HB2	2.33	0.64
2:G:2754:PHE:CE1	2:G:2813:LEU:HB2	2.33	0.64
2:B:69:LEU:HD21	2:B:202:MET:HE2	1.79	0.64
2:B:4056:GLU:HG2	2:B:4166:LEU:HD22	1.80	0.64
2:I:3270:ILE:HA	2:I:3274:LEU:CD1	2.28	0.64
2:A:883:ALA:HB1	2:A:905:PRO:HA	1.80	0.64
2:A:2627:VAL:HG12	2:A:2678:LEU:HD13	1.79	0.64
2:A:5009:TYR:CE2	2:A:5013:MET:HE2	2.33	0.64
2:A:981:GLN:HE21	2:A:1047:LEU:HD21	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3173:TYR:HE1	2:A:3244:PRO:HD3	1.63	0.63
2:G:1948:ASP:OD2	2:G:2126:ARG:NH2	2.22	0.63
2:B:2754:PHE:CE1	2:B:2813:LEU:HB2	2.33	0.63
2:B:4045:VAL:HG11	2:B:4159:ARG:HE	1.61	0.63
2:B:4563:ARG:NH2	2:B:4815:ASP:OD1	2.31	0.63
2:I:5009:TYR:CE2	2:I:5013:MET:HE2	2.33	0.63
2:A:1272:LEU:HD22	2:A:1289:LEU:HD11	1.79	0.63
2:A:4563:ARG:NH2	2:A:4815:ASP:OD1	2.31	0.63
2:A:4878:ASP:OD1	2:A:4879:MET:N	2.30	0.63
2:G:981:GLN:HE21	2:G:1047:LEU:HD21	1.62	0.63
2:G:2894:LEU:CA	2:G:2897:LYS:HZ2	1.99	0.63
2:G:2962:GLN:O	2:G:2966:TRP:HE3	1.81	0.63
2:G:3204:ALA:HB1	2:G:3207:GLU:HB2	1.81	0.63
2:G:4563:ARG:NH2	2:G:4815:ASP:OD1	2.31	0.63
2:B:3270:ILE:HA	2:B:3274:LEU:CD1	2.28	0.63
2:I:663:TYR:OH	2:I:665:GLU:OE2	2.14	0.63
2:I:2754:PHE:CE1	2:I:2813:LEU:HB2	2.33	0.63
2:I:3204:ALA:HB1	2:I:3207:GLU:HB2	1.81	0.63
2:A:4207:MET:HG3	2:A:4245:MET:HE1	1.80	0.63
2:I:3173:TYR:HE1	2:I:3244:PRO:HD3	1.63	0.63
2:A:1420:ASN:OD1	2:A:1421:ARG:N	2.30	0.63
2:A:4677:LEU:HD12	2:A:4677:LEU:O	1.97	0.63
2:B:2469:ILE:CB	2:B:2502:MET:SD	2.87	0.63
2:B:3836:MET:CE	2:B:3885:PHE:HE1	2.09	0.63
2:A:214:VAL:C	2:A:274:LEU:HD13	2.22	0.63
2:G:883:ALA:HB1	2:G:905:PRO:HA	1.80	0.63
2:I:4563:ARG:NH2	2:I:4815:ASP:OD1	2.31	0.63
2:G:317:ARG:NH2	2:G:349:GLN:OE1	2.29	0.63
2:G:1272:LEU:HD22	2:G:1289:LEU:HD11	1.79	0.63
2:G:2155:LEU:HD11	2:G:2198:MET:CE	2.28	0.63
2:G:3270:ILE:HA	2:G:3274:LEU:CD1	2.28	0.63
2:B:981:GLN:HE21	2:B:1047:LEU:HD21	1.62	0.63
2:B:4092:ASP:CA	2:B:4095:LYS:HZ2	1.98	0.63
2:I:3111:ARG:NH1	2:I:3174:SER:O	2.32	0.63
2:A:1974:ARG:NH2	2:A:3642:TYR:HB2	2.14	0.63
2:G:248:GLU:HG2	2:G:252:VAL:HG11	1.81	0.63
2:B:883:ALA:HB1	2:B:905:PRO:HA	1.80	0.63
2:B:2155:LEU:HD11	2:B:2198:MET:CE	2.28	0.63
2:A:3944:GLU:OE1	2:A:3946:GLN:HG3	1.99	0.63
2:G:2595:LEU:CD2	2:G:2599:GLN:CD	2.71	0.63
2:B:4207:MET:HG3	2:B:4245:MET:HE1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:5009:TYR:CE2	2:B:5013:MET:HE2	2.33	0.63
2:I:248:GLU:HG2	2:I:252:VAL:HG11	1.81	0.63
2:I:2500:ALA:HB2	2:I:2553:TYR:CD1	2.34	0.63
2:A:2500:ALA:HB2	2:A:2553:TYR:CD1	2.34	0.63
2:G:2500:ALA:HB2	2:G:2553:TYR:CD1	2.34	0.63
2:G:3173:TYR:HE1	2:G:3244:PRO:HD3	1.63	0.63
2:G:4056:GLU:HG2	2:G:4166:LEU:HD22	1.80	0.63
2:G:4180:ARG:NH2	2:G:4981:GLU:OE1	2.32	0.63
2:G:5009:TYR:CE2	2:G:5013:MET:HE2	2.33	0.63
2:I:2469:ILE:CB	2:I:2502:MET:SD	2.87	0.63
2:A:2515:GLN:HG2	2:A:2519:LEU:CD1	2.28	0.62
2:A:3842:LEU:HD21	2:A:3933:PHE:CD2	2.34	0.62
2:G:663:TYR:OH	2:G:665:GLU:OE2	2.13	0.62
2:B:3541:ALA:HA	2:B:3604:TYR:OH	1.99	0.62
2:I:2753:SER:O	2:I:2757:LYS:N	2.29	0.62
2:A:69:LEU:HD21	2:A:202:MET:HE2	1.79	0.62
2:B:2515:GLN:HG2	2:B:2519:LEU:CD1	2.29	0.62
2:I:883:ALA:HB1	2:I:905:PRO:HA	1.80	0.62
2:I:2515:GLN:HG2	2:I:2519:LEU:CD1	2.28	0.62
2:I:3413:ILE:HD12	2:I:3469:PHE:O	1.99	0.62
2:A:2469:ILE:CB	2:A:2502:MET:SD	2.87	0.62
2:A:3541:ALA:HA	2:A:3604:TYR:CZ	2.35	0.62
2:A:4056:GLU:HG2	2:A:4166:LEU:HD22	1.80	0.62
2:G:1974:ARG:NH2	2:G:3642:TYR:HB2	2.14	0.62
2:G:2515:GLN:HG2	2:G:2519:LEU:CD1	2.28	0.62
2:G:3842:LEU:HD21	2:G:3933:PHE:CD2	2.34	0.62
2:B:2645:THR:OG1	2:B:2702:CYS:SG	2.51	0.62
2:B:3204:ALA:HB1	2:B:3207:GLU:HB2	1.80	0.62
2:I:2638:LYS:HE3	2:I:2698:MET:HG3	1.82	0.62
2:I:3541:ALA:HA	2:I:3604:TYR:CZ	2.34	0.62
2:I:3541:ALA:HA	2:I:3604:TYR:OH	1.99	0.62
2:A:2595:LEU:CD2	2:A:2599:GLN:CD	2.71	0.62
2:A:3204:ALA:HB1	2:A:3207:GLU:HB2	1.81	0.62
2:G:3836:MET:CE	2:G:3885:PHE:HE1	2.09	0.62
2:G:3944:GLU:OE1	2:G:3946:GLN:HG3	1.99	0.62
2:G:4677:LEU:HA	2:G:4680:LYS:HE2	1.82	0.62
2:B:3413:ILE:HD12	2:B:3469:PHE:O	1.99	0.62
2:I:3187:ARG:HH12	2:I:3267:PRO:HB2	1.64	0.62
2:A:2440:MET:O	2:A:2444:GLN:NE2	2.33	0.62
2:A:4180:ARG:NH2	2:A:4981:GLU:OE1	2.32	0.62
2:A:4189:ARG:NH1	2:A:4189:ARG:CB	2.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:19:GLY:CA	1:J:49:ARG:HH21	2.07	0.62
2:G:2638:LYS:HE3	2:G:2698:MET:HG3	1.82	0.62
2:G:3541:ALA:HA	2:G:3604:TYR:OH	1.99	0.62
2:B:2531:ARG:NH2	2:B:2585:THR:OG1	2.33	0.62
2:I:2155:LEU:HD11	2:I:2198:MET:CE	2.29	0.62
2:G:69:LEU:HD21	2:G:202:MET:HE2	1.79	0.62
2:B:1972:ASN:HD21	2:B:2023:LEU:HD23	1.65	0.62
2:B:3842:LEU:HD21	2:B:3933:PHE:CD2	2.34	0.62
2:I:1974:ARG:NH2	2:I:3642:TYR:HB2	2.14	0.62
2:I:3996:PHE:O	2:I:4000:MET:HG3	2.00	0.62
2:I:5035:GLN:HG2	2:I:5036:LEU:N	2.14	0.62
2:A:248:GLU:HG2	2:A:252:VAL:HG11	1.81	0.62
2:A:3106:MET:O	2:A:3110:LEU:HG	2.00	0.62
2:G:2268:GLN:HG3	2:G:2269:GLY:H	1.64	0.62
2:G:3050:VAL:O	2:G:3050:VAL:HG12	2.00	0.62
2:B:1974:ARG:NH2	2:B:3642:TYR:HB2	2.14	0.62
2:B:2500:ALA:HB2	2:B:2553:TYR:CD1	2.34	0.62
2:B:4203:ALA:O	2:B:4207:MET:HE2	2.00	0.62
2:I:158:SER:N	2:I:161:GLU:OE2	2.29	0.62
2:I:4207:MET:HG3	2:I:4245:MET:HE1	1.80	0.62
2:A:4677:LEU:HA	2:A:4680:LYS:HE2	1.82	0.62
2:A:4791:TYR:CE1	2:A:4818:MET:HE1	2.28	0.62
2:G:2185:ILE:HD13	2:G:2203:MET:HE3	1.81	0.62
2:G:2469:ILE:CB	2:G:2502:MET:SD	2.87	0.62
2:G:3106:MET:O	2:G:3110:LEU:HG	2.00	0.62
2:G:3541:ALA:HA	2:G:3604:TYR:CZ	2.34	0.62
2:G:4189:ARG:NH1	2:G:4189:ARG:CB	2.63	0.62
2:G:4207:MET:HG3	2:G:4245:MET:HE1	1.80	0.62
2:I:1972:ASN:HD21	2:I:2023:LEU:HD23	1.65	0.62
2:I:3944:GLU:OE1	2:I:3946:GLN:HG3	1.99	0.62
2:I:4189:ARG:NH1	2:I:4189:ARG:CB	2.63	0.62
2:A:2651:CYS:HA	2:A:2661:TRP:CZ2	2.35	0.62
2:G:3068:LEU:HG	2:G:3139:VAL:CG2	2.28	0.62
2:B:2440:MET:O	2:B:2444:GLN:NE2	2.33	0.62
2:B:3106:MET:O	2:B:3110:LEU:HG	2.00	0.62
2:I:3320:LEU:CD2	2:I:3357:HIS:HB3	2.21	0.62
2:I:4203:ALA:O	2:I:4207:MET:HE2	2.00	0.62
2:A:2247:GLN:NE2	2:A:2279:SER:O	2.33	0.62
2:A:2531:ARG:NH2	2:A:2585:THR:OG1	2.33	0.62
2:A:2638:LYS:HE3	2:A:2698:MET:HG3	1.82	0.62
2:G:2651:CYS:HA	2:G:2661:TRP:CZ2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3541:ALA:HA	2:B:3604:TYR:CZ	2.35	0.62
2:B:3996:PHE:O	2:B:4000:MET:HG3	2.00	0.62
2:B:4650:HIS:CE1	2:B:4812:HIS:ND1	2.68	0.62
2:I:551:LEU:HB3	2:I:589:LEU:HD11	1.82	0.62
2:I:2268:GLN:HG3	2:I:2269:GLY:H	1.64	0.62
2:I:2713:ASP:OD1	2:I:3016:TYR:OH	2.12	0.62
2:A:2268:GLN:HG3	2:A:2269:GLY:H	1.64	0.61
2:G:4203:ALA:O	2:G:4207:MET:HE2	2.00	0.61
2:B:4180:ARG:NH2	2:B:4981:GLU:OE1	2.32	0.61
2:A:2585:THR:O	2:A:2588:ARG:HG2	2.00	0.61
1:H:31:GLN:HE21	1:H:96:THR:HB	1.65	0.61
2:G:2440:MET:O	2:G:2444:GLN:NE2	2.33	0.61
2:G:4945:ASP:O	2:G:4949:GLN:HG2	2.00	0.61
2:B:663:TYR:OH	2:B:665:GLU:OE2	2.13	0.61
2:B:2165:LEU:HB2	2:B:2178:MET:HE2	1.82	0.61
2:B:2268:GLN:HG3	2:B:2269:GLY:H	1.64	0.61
2:B:2563:THR:OG1	2:B:2606:CYS:SG	2.58	0.61
2:B:3944:GLU:OE1	2:B:3946:GLN:HG3	1.99	0.61
2:B:4189:ARG:NH1	2:B:4189:ARG:CB	2.63	0.61
2:I:4180:ARG:NH2	2:I:4981:GLU:OE1	2.32	0.61
2:I:4948:GLU:HA	2:I:4951:LYS:HD3	1.82	0.61
2:A:3521:GLY:O	2:A:3524:MET:HG2	2.01	0.61
2:G:2531:ARG:NH2	2:G:2585:THR:OG1	2.33	0.61
2:G:2585:THR:O	2:G:2588:ARG:HG2	2.00	0.61
2:B:3037:GLU:HG2	2:B:3085:PRO:HD2	1.82	0.61
2:B:4945:ASP:O	2:B:4949:GLN:HG2	2.00	0.61
2:I:3842:LEU:HD21	2:I:3933:PHE:CD2	2.34	0.61
2:A:2423:MET:HE3	2:A:2494:PHE:HD1	1.65	0.61
2:A:3111:ARG:NH1	2:A:3174:SER:O	2.32	0.61
2:A:4161:ARG:HA	2:A:4164:LEU:HD12	1.82	0.61
2:A:4203:ALA:O	2:A:4207:MET:HE2	2.00	0.61
2:G:265:LEU:HD22	2:G:279:PRO:HB2	1.82	0.61
2:G:3187:ARG:HH12	2:G:3267:PRO:HB2	1.64	0.61
2:I:13:PHE:HB2	2:I:15:ARG:HH12	1.65	0.61
2:I:2585:THR:O	2:I:2588:ARG:HG2	2.00	0.61
2:A:2165:LEU:HB2	2:A:2178:MET:HE2	1.82	0.61
2:A:2470:ILE:HD11	2:A:2502:MET:HG3	1.83	0.61
2:G:3327:LEU:CD1	2:G:3368:ARG:HH21	2.03	0.61
2:G:4189:ARG:CB	2:G:4189:ARG:HH11	2.14	0.61
2:B:2638:LYS:HE3	2:B:2698:MET:HG3	1.82	0.61
2:B:4161:ARG:HA	2:B:4164:LEU:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2651:CYS:HA	2:I:2661:TRP:CZ2	2.35	0.61
2:I:3037:GLU:HG2	2:I:3085:PRO:HD2	1.82	0.61
2:I:4677:LEU:HA	2:I:4680:LYS:HE2	1.82	0.61
2:A:2359:ARG:NH2	2:B:177:GLU:O	2.30	0.61
2:A:5035:GLN:HG2	2:A:5036:LEU:N	2.15	0.61
2:G:3111:ARG:NH1	2:G:3174:SER:O	2.32	0.61
2:A:3230:LEU:HB2	2:A:3232:LEU:CD1	2.31	0.61
2:A:3318:ASN:O	2:A:3322:ILE:HG12	2.00	0.61
2:A:4045:VAL:HG11	2:A:4159:ARG:HE	1.61	0.61
2:G:2165:LEU:HB2	2:G:2178:MET:HE2	1.82	0.61
2:G:2563:THR:OG1	2:G:2606:CYS:SG	2.58	0.61
2:G:4650:HIS:CE1	2:G:4812:HIS:ND1	2.68	0.61
2:G:4948:GLU:HA	2:G:4951:LYS:HD3	1.82	0.61
2:B:248:GLU:HG2	2:B:252:VAL:HG11	1.81	0.61
2:B:2470:ILE:HD11	2:B:2502:MET:HG3	1.83	0.61
2:B:2585:THR:O	2:B:2588:ARG:HG2	2.00	0.61
2:B:3111:ARG:NH1	2:B:3174:SER:O	2.32	0.61
2:B:3532:LEU:HD22	2:B:3596:VAL:HG21	1.83	0.61
2:B:4001:MET:HE1	2:B:4061:PHE:HD2	1.66	0.61
2:I:265:LEU:HD22	2:I:279:PRO:HB2	1.82	0.61
2:I:2247:GLN:NE2	2:I:2279:SER:O	2.33	0.61
2:I:3532:LEU:HD22	2:I:3596:VAL:HG21	1.83	0.61
2:A:2155:LEU:HD11	2:A:2198:MET:CE	2.28	0.61
1:J:31:GLN:HE21	1:J:96:THR:HB	1.66	0.61
2:G:2423:MET:HE3	2:G:2494:PHE:HD1	1.65	0.61
2:B:3187:ARG:HH12	2:B:3267:PRO:HB2	1.64	0.61
2:B:5035:GLN:HG2	2:B:5036:LEU:N	2.15	0.61
2:I:2440:MET:O	2:I:2444:GLN:NE2	2.33	0.61
2:I:3106:MET:O	2:I:3110:LEU:HG	2.00	0.61
2:I:4945:ASP:O	2:I:4949:GLN:HG2	2.00	0.61
1:F:16:PRO:HB3	1:F:106:LEU:HD21	1.83	0.61
2:A:3541:ALA:HA	2:A:3604:TYR:OH	1.99	0.61
2:A:4945:ASP:O	2:A:4949:GLN:HG2	2.00	0.61
2:G:2247:GLN:NE2	2:G:2279:SER:O	2.33	0.61
2:G:3521:GLY:O	2:G:3524:MET:HG2	2.01	0.61
2:B:551:LEU:HB3	2:B:589:LEU:HD11	1.82	0.61
2:B:2359:ARG:NH2	2:I:177:GLU:O	2.30	0.61
2:B:4189:ARG:CB	2:B:4189:ARG:HH11	2.14	0.61
2:I:2470:ILE:HD11	2:I:2502:MET:HG3	1.83	0.61
2:I:2563:THR:OG1	2:I:2606:CYS:SG	2.58	0.61
2:A:1972:ASN:HD21	2:A:2023:LEU:HD23	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3050:VAL:O	2:A:3050:VAL:HG12	2.00	0.61
2:A:3157:ILE:HA	2:A:3161:VAL:HG23	1.83	0.61
2:G:1972:ASN:HD21	2:G:2023:LEU:HD23	1.65	0.61
2:G:2608:MET:HE1	2:G:2642:LYS:HE3	1.83	0.61
2:G:2624:ARG:HH21	2:G:2911:LEU:HA	1.65	0.61
2:B:2651:CYS:HA	2:B:2661:TRP:CZ2	2.35	0.61
2:B:3050:VAL:O	2:B:3050:VAL:HG12	2.00	0.61
2:I:2615:ARG:HH21	2:I:2618:MET:HE1	1.64	0.61
2:A:1252:HIS:O	2:A:1275:ARG:NH1	2.34	0.60
2:G:2212:VAL:HG22	2:G:2256:TYR:CZ	2.36	0.60
2:G:2311:PRO:HA	2:G:2314:LEU:HD12	1.83	0.60
2:G:3413:ILE:HD12	2:G:3469:PHE:O	1.99	0.60
2:G:4001:MET:HE1	2:G:4061:PHE:HD2	1.66	0.60
2:B:4948:GLU:HA	2:B:4951:LYS:HD3	1.82	0.60
2:I:2531:ARG:NH2	2:I:2585:THR:OG1	2.33	0.60
2:I:3050:VAL:HG22	2:I:3057:PHE:CE2	2.34	0.60
2:A:2563:THR:OG1	2:A:2606:CYS:SG	2.58	0.60
2:G:2470:ILE:HD11	2:G:2502:MET:HG3	1.83	0.60
2:G:3996:PHE:O	2:G:4000:MET:HG3	2.00	0.60
2:B:4689:THR:HG22	2:B:4732:PHE:CZ	2.36	0.60
2:I:2165:LEU:HB2	2:I:2178:MET:HE2	1.82	0.60
2:I:3718:GLU:OE2	2:I:3723:MET:CE	2.50	0.60
2:A:2311:PRO:HA	2:A:2314:LEU:HD12	1.83	0.60
2:A:2608:MET:HE1	2:A:2642:LYS:HE3	1.83	0.60
2:A:3037:GLU:HG2	2:A:3085:PRO:HD2	1.82	0.60
2:A:4650:HIS:CE1	2:A:4812:HIS:ND1	2.68	0.60
2:G:2472:LEU:HD23	2:G:2494:PHE:CD2	2.36	0.60
2:B:13:PHE:HB2	2:B:15:ARG:HH12	1.65	0.60
2:B:2212:VAL:HG22	2:B:2256:TYR:CZ	2.37	0.60
2:B:2624:ARG:HH21	2:B:2911:LEU:HA	1.65	0.60
2:B:4677:LEU:HA	2:B:4680:LYS:HE2	1.82	0.60
2:B:4933:GLN:O	2:B:4937:ILE:HG12	2.01	0.60
2:I:1252:HIS:O	2:I:1275:ARG:NH1	2.34	0.60
2:I:2423:MET:HE3	2:I:2494:PHE:HD1	1.65	0.60
2:I:3150:HIS:HB2	2:I:3152:PHE:CD1	2.35	0.60
2:I:3718:GLU:OE2	2:I:3723:MET:HE1	2.02	0.60
2:A:2472:LEU:HD23	2:A:2494:PHE:CD2	2.36	0.60
2:A:3150:HIS:HB2	2:A:3152:PHE:CD1	2.35	0.60
2:A:4948:GLU:HA	2:A:4951:LYS:HD3	1.82	0.60
2:G:551:LEU:HB3	2:G:589:LEU:HD11	1.82	0.60
2:G:1252:HIS:O	2:G:1275:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3230:LEU:HB2	2:G:3232:LEU:CD1	2.31	0.60
2:G:5035:GLN:HG2	2:G:5036:LEU:N	2.15	0.60
2:B:3230:LEU:HB2	2:B:3232:LEU:CD1	2.31	0.60
2:I:3318:ASN:O	2:I:3322:ILE:HG12	2.00	0.60
2:A:13:PHE:HB2	2:A:15:ARG:HH12	1.65	0.60
2:A:3996:PHE:O	2:A:4000:MET:HG3	2.00	0.60
2:G:13:PHE:HB2	2:G:15:ARG:HH12	1.65	0.60
2:G:3157:ILE:HA	2:G:3161:VAL:HG23	1.83	0.60
2:G:4161:ARG:HA	2:G:4164:LEU:HD12	1.82	0.60
2:B:1252:HIS:O	2:B:1275:ARG:NH1	2.34	0.60
2:B:2423:MET:HE3	2:B:2494:PHE:HD1	1.65	0.60
2:I:869:ARG:CZ	2:I:870:ILE:HB	2.32	0.60
2:I:2212:VAL:HG22	2:I:2256:TYR:CZ	2.37	0.60
2:I:4650:HIS:CE1	2:I:4812:HIS:ND1	2.68	0.60
2:A:3327:LEU:CD1	2:A:3368:ARG:HH21	2.03	0.60
2:A:3464:ILE:O	2:A:3466:ASN:ND2	2.35	0.60
2:A:4576:ILE:HG21	2:A:4643:LEU:HB2	1.84	0.60
1:H:16:PRO:HB3	1:H:106:LEU:HD21	1.83	0.60
2:G:3037:GLU:HG2	2:G:3085:PRO:HD2	1.82	0.60
2:G:3318:ASN:O	2:G:3322:ILE:HG12	2.00	0.60
2:B:4576:ILE:HG21	2:B:4643:LEU:HB2	1.84	0.60
2:I:4161:ARG:HA	2:I:4164:LEU:HD12	1.82	0.60
2:I:4933:GLN:O	2:I:4937:ILE:HG12	2.01	0.60
1:F:31:GLN:HE21	1:F:96:THR:HB	1.65	0.60
2:A:265:LEU:HD22	2:A:279:PRO:HB2	1.82	0.60
2:A:3413:ILE:HD12	2:A:3469:PHE:O	1.99	0.60
2:A:4189:ARG:CB	2:A:4189:ARG:HH11	2.14	0.60
2:A:4933:GLN:O	2:A:4937:ILE:HG12	2.01	0.60
2:G:4576:ILE:HG21	2:G:4643:LEU:HB2	1.84	0.60
2:G:4948:GLU:O	2:G:4951:LYS:HG2	2.02	0.60
2:B:869:ARG:CZ	2:B:870:ILE:HB	2.32	0.60
2:B:3150:HIS:HB2	2:B:3152:PHE:CD1	2.36	0.60
2:B:3521:GLY:O	2:B:3524:MET:HG2	2.01	0.60
2:B:3718:GLU:OE2	2:B:3723:MET:HE1	2.01	0.60
2:I:4627:MET:HG3	2:I:4628:VAL:N	2.17	0.60
2:A:3718:GLU:OE2	2:A:3723:MET:CE	2.50	0.60
2:G:3150:HIS:HB2	2:G:3152:PHE:CD1	2.36	0.60
2:G:3320:LEU:CD2	2:G:3357:HIS:HB3	2.21	0.60
2:B:3037:GLU:O	2:B:3040:THR:OG1	2.19	0.60
2:I:2575:ARG:HH11	2:I:2578:MET:HE3	1.45	0.60
2:A:551:LEU:HB3	2:A:589:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3187:ARG:HH12	2:A:3267:PRO:HB2	1.64	0.60
2:A:3414:ARG:O	2:A:3418:ASN:ND2	2.32	0.60
2:A:3718:GLU:OE2	2:A:3723:MET:HE1	2.02	0.60
2:G:3532:LEU:HD22	2:G:3596:VAL:HG21	1.83	0.60
2:B:265:LEU:HD22	2:B:279:PRO:HB2	1.82	0.60
2:B:3718:GLU:OE2	2:B:3723:MET:CE	2.50	0.60
2:I:3464:ILE:O	2:I:3466:ASN:ND2	2.35	0.60
2:I:3521:GLY:O	2:I:3524:MET:HG2	2.01	0.60
2:I:4189:ARG:CB	2:I:4189:ARG:HH11	2.14	0.60
2:A:2624:ARG:HH21	2:A:2911:LEU:HA	1.65	0.60
2:A:2645:THR:OG1	2:A:2702:CYS:SG	2.51	0.60
2:A:4689:THR:HG22	2:A:4732:PHE:CZ	2.36	0.60
2:G:990:GLU:HG3	2:G:1024:TYR:HB3	1.84	0.60
2:G:3050:VAL:HG22	2:G:3057:PHE:CE2	2.34	0.60
2:G:3464:ILE:O	2:G:3466:ASN:ND2	2.35	0.60
2:B:2311:PRO:HA	2:B:2314:LEU:HD12	1.83	0.60
2:B:2608:MET:HE1	2:B:2642:LYS:HE3	1.83	0.60
2:B:3318:ASN:O	2:B:3322:ILE:HG12	2.00	0.60
2:I:2472:LEU:HD23	2:I:2494:PHE:CD2	2.36	0.60
2:I:3050:VAL:O	2:I:3050:VAL:HG12	2.00	0.60
2:I:3157:ILE:HA	2:I:3161:VAL:HG23	1.83	0.60
2:I:4576:ILE:HG21	2:I:4643:LEU:HB2	1.84	0.60
2:A:4948:GLU:O	2:A:4951:LYS:HG2	2.02	0.59
2:G:3718:GLU:OE2	2:G:3723:MET:HE1	2.01	0.59
2:G:4689:THR:HG22	2:G:4732:PHE:CZ	2.36	0.59
2:B:990:GLU:HG3	2:B:1024:TYR:HB3	1.84	0.59
2:B:2472:LEU:HD23	2:B:2494:PHE:CD2	2.36	0.59
2:I:2185:ILE:HD13	2:I:2203:MET:HE3	1.81	0.59
2:I:2608:MET:HE1	2:I:2642:LYS:HE3	1.83	0.59
2:I:3230:LEU:HB2	2:I:3232:LEU:CD1	2.31	0.59
2:A:2827:ARG:H	2:A:2934:GLY:HA3	1.67	0.59
2:A:3532:LEU:HD22	2:A:3596:VAL:HG21	1.83	0.59
1:O:16:PRO:HB3	1:O:106:LEU:HD21	1.83	0.59
2:G:3718:GLU:OE2	2:G:3723:MET:CE	2.50	0.59
2:B:2247:GLN:NE2	2:B:2279:SER:O	2.33	0.59
2:A:215:THR:C	2:A:274:LEU:CD1	2.75	0.59
2:A:1819:VAL:O	2:A:1822:GLY:N	2.36	0.59
2:G:2827:ARG:H	2:G:2934:GLY:HA3	1.67	0.59
2:G:4049:VAL:CG2	2:G:4159:ARG:HD2	2.32	0.59
2:B:24:CYS:SG	2:B:200:TRP:CH2	2.96	0.59
2:B:1819:VAL:O	2:B:1822:GLY:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3464:ILE:O	2:B:3466:ASN:ND2	2.35	0.59
2:B:4627:MET:HG3	2:B:4628:VAL:N	2.17	0.59
2:I:4001:MET:HE1	2:I:4061:PHE:HD2	1.66	0.59
2:I:4658:ILE:CD1	2:I:4792:LEU:HB3	2.32	0.59
2:A:2212:VAL:HG22	2:A:2256:TYR:CZ	2.37	0.59
2:A:4823:LEU:HD11	2:B:4839:MET:CB	2.29	0.59
2:G:215:THR:C	2:G:274:LEU:CD1	2.75	0.59
2:G:4933:GLN:O	2:G:4937:ILE:HG12	2.01	0.59
2:B:3157:ILE:HA	2:B:3161:VAL:HG23	1.83	0.59
2:I:24:CYS:SG	2:I:200:TRP:CH2	2.96	0.59
2:I:2500:ALA:HB2	2:I:2553:TYR:CE1	2.38	0.59
2:I:4689:THR:HG22	2:I:4732:PHE:CZ	2.36	0.59
2:A:3050:VAL:HG22	2:A:3057:PHE:CE2	2.34	0.59
2:A:3575:LEU:HD11	2:B:1208:VAL:HG11	1.83	0.59
1:O:31:GLN:HE21	1:O:96:THR:HB	1.66	0.59
1:O:85:THR:HG23	1:O:86:GLY:N	2.17	0.59
2:G:194:SER:OG	2:G:196:MET:HE3	2.03	0.59
2:G:4551:PHE:CD1	2:G:4552:LEU:HD12	2.38	0.59
2:B:194:SER:OG	2:B:196:MET:HE3	2.02	0.59
2:I:2302:LEU:HD11	2:I:2332:LEU:HD13	1.84	0.59
2:I:3068:LEU:HG	2:I:3139:VAL:CG2	2.28	0.59
2:A:1208:VAL:HG11	2:G:3575:LEU:HD11	1.84	0.59
2:A:2500:ALA:HB2	2:A:2553:TYR:CE1	2.38	0.59
2:A:2973:PHE:CD2	2:A:2995:ILE:HG22	2.38	0.59
2:A:4001:MET:HE1	2:A:4061:PHE:HD2	1.66	0.59
1:J:16:PRO:HB3	1:J:106:LEU:HD21	1.83	0.59
2:B:215:THR:C	2:B:274:LEU:CD1	2.75	0.59
2:I:1819:VAL:O	2:I:1822:GLY:N	2.36	0.59
2:I:2624:ARG:HH21	2:I:2911:LEU:HA	1.66	0.59
2:I:2973:PHE:CD2	2:I:2995:ILE:HG22	2.38	0.59
2:I:4948:GLU:O	2:I:4951:LYS:HG2	2.02	0.59
2:A:869:ARG:CZ	2:A:870:ILE:HB	2.32	0.59
2:A:3068:LEU:HG	2:A:3139:VAL:CG2	2.28	0.59
2:G:869:ARG:CZ	2:G:870:ILE:HB	2.32	0.59
2:G:2973:PHE:CD2	2:G:2995:ILE:HG22	2.38	0.59
2:G:4627:MET:HG3	2:G:4628:VAL:N	2.17	0.59
2:B:2827:ARG:H	2:B:2934:GLY:HA3	1.67	0.59
2:B:2997:PHE:HA	2:B:3001:ILE:HD13	1.85	0.59
2:I:215:THR:C	2:I:274:LEU:CD1	2.75	0.59
2:I:2311:PRO:HA	2:I:2314:LEU:HD12	1.83	0.59
2:I:2638:LYS:NZ	2:I:2698:MET:HG3	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:85:THR:HG23	1:F:86:GLY:N	2.17	0.59
2:A:4203:ALA:C	2:A:4207:MET:HE2	2.28	0.59
2:G:4203:ALA:C	2:G:4207:MET:HE2	2.28	0.59
2:G:4791:TYR:OH	2:G:4818:MET:CE	2.38	0.59
2:B:2500:ALA:HB2	2:B:2553:TYR:CE1	2.38	0.59
2:B:2638:LYS:NZ	2:B:2698:MET:HG3	2.18	0.59
2:B:3414:ARG:O	2:B:3418:ASN:ND2	2.32	0.59
2:I:2747:ILE:HD11	2:I:2751:LEU:HD23	1.85	0.59
2:I:2997:PHE:HA	2:I:3001:ILE:HD13	1.85	0.59
2:I:4203:ALA:C	2:I:4207:MET:HE2	2.28	0.59
2:A:24:CYS:SG	2:A:200:TRP:CH2	2.96	0.59
2:A:2575:ARG:HH11	2:A:2578:MET:HE3	1.45	0.59
2:A:4551:PHE:CD1	2:A:4552:LEU:HD12	2.38	0.59
1:H:85:THR:HG23	1:H:86:GLY:N	2.17	0.59
2:G:2302:LEU:HD11	2:G:2332:LEU:HD13	1.84	0.59
2:G:2638:LYS:NZ	2:G:2698:MET:HG3	2.18	0.59
2:G:2747:ILE:HD11	2:G:2751:LEU:HD23	1.85	0.59
2:B:4658:ILE:CD1	2:B:4792:LEU:HB3	2.32	0.59
2:I:491:ILE:O	2:I:495:ASN:HB2	2.03	0.59
2:A:1981:MET:HA	2:A:1981:MET:HE3	1.85	0.59
2:A:3705:PHE:HB2	2:A:3778:MET:SD	2.42	0.59
2:A:4627:MET:HG3	2:A:4628:VAL:N	2.17	0.59
2:G:2500:ALA:HB2	2:G:2553:TYR:CE1	2.38	0.59
2:G:4658:ILE:CD1	2:G:4792:LEU:HB3	2.32	0.59
2:B:491:ILE:O	2:B:495:ASN:HB2	2.03	0.59
2:B:4551:PHE:CD1	2:B:4552:LEU:HD12	2.38	0.59
2:I:128:THR:HG21	2:I:185:ALA:HB3	1.85	0.59
2:I:1520:VAL:HG12	2:I:1527:MET:HG2	1.85	0.59
2:I:2827:ARG:H	2:I:2934:GLY:HA3	1.67	0.59
2:A:3215:ALA:O	2:A:3221:THR:OG1	2.21	0.58
2:A:3989:VAL:CG2	2:A:4023:MET:CE	2.29	0.58
2:G:24:CYS:SG	2:G:200:TRP:CH2	2.96	0.58
2:G:3705:PHE:HB2	2:G:3778:MET:SD	2.42	0.58
2:G:4127:GLU:O	2:G:4131:ARG:HG3	2.03	0.58
2:B:1981:MET:HA	2:B:1981:MET:HE3	1.85	0.58
2:B:4092:ASP:CG	2:B:4095:LYS:HZ3	2.10	0.58
2:I:3705:PHE:HB2	2:I:3778:MET:SD	2.42	0.58
2:A:2638:LYS:NZ	2:A:2698:MET:HG3	2.18	0.58
2:G:128:THR:HG21	2:G:185:ALA:HB3	1.85	0.58
2:G:3215:ALA:O	2:G:3221:THR:OG1	2.21	0.58
2:B:128:THR:HG21	2:B:185:ALA:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3989:VAL:CG2	2:B:4023:MET:CE	2.29	0.58
2:I:194:SER:OG	2:I:196:MET:HE3	2.03	0.58
2:I:2208:MET:HE1	2:I:2257:LEU:HD21	1.86	0.58
2:A:2997:PHE:HA	2:A:3001:ILE:HD13	1.85	0.58
1:J:85:THR:HG23	1:J:86:GLY:N	2.17	0.58
2:B:296:ASP:OD1	2:B:297:GLN:N	2.36	0.58
2:B:1520:VAL:HG12	2:B:1527:MET:HG2	1.85	0.58
2:B:4678:ALA:HB1	2:B:4720:VAL:HG21	1.85	0.58
2:I:706:GLY:N	2:I:709:ASP:OD2	2.31	0.58
2:I:990:GLU:HG3	2:I:1024:TYR:HB3	1.84	0.58
2:I:2686:LEU:HG	2:I:2696:TYR:CE2	2.39	0.58
2:I:3233:PRO:HD2	2:I:3239:MET:SD	2.43	0.58
2:A:296:ASP:OD1	2:A:297:GLN:N	2.36	0.58
2:A:977:LEU:HD11	2:A:1044:ARG:HG3	1.84	0.58
2:G:1229:ASN:HB3	2:G:1826:ALA:HB1	1.84	0.58
2:G:1520:VAL:HG12	2:G:1527:MET:HG2	1.85	0.58
2:B:4948:GLU:O	2:B:4951:LYS:HG2	2.02	0.58
2:I:2696:TYR:CD2	2:I:3001:ILE:HG12	2.38	0.58
2:I:2960:LEU:HD23	2:I:2963:LEU:HD12	1.86	0.58
2:I:4551:PHE:CD1	2:I:4552:LEU:HD12	2.38	0.58
2:A:990:GLU:HG3	2:A:1024:TYR:HB3	1.84	0.58
2:A:2302:LEU:HD11	2:A:2332:LEU:HD13	1.84	0.58
2:G:977:LEU:HD11	2:G:1044:ARG:HG3	1.84	0.58
2:G:1208:VAL:HG11	2:I:3575:LEU:HD11	1.86	0.58
2:G:2686:LEU:HG	2:G:2696:TYR:CE2	2.39	0.58
2:G:4189:ARG:HH11	2:G:4189:ARG:HB3	1.69	0.58
2:B:3705:PHE:HB2	2:B:3778:MET:SD	2.43	0.58
2:B:4658:ILE:HD13	2:B:4792:LEU:HB3	1.86	0.58
2:I:1229:ASN:HB3	2:I:1826:ALA:HB1	1.84	0.58
2:I:2573:GLU:HA	2:I:2618:MET:HE1	1.86	0.58
2:A:194:SER:OG	2:A:196:MET:HE3	2.03	0.58
2:A:2562:ILE:HG21	2:A:2582:MET:HE1	1.86	0.58
2:A:4658:ILE:CD1	2:A:4792:LEU:HB3	2.32	0.58
2:G:215:THR:C	2:G:274:LEU:HD11	2.29	0.58
2:G:1981:MET:HE3	2:G:1981:MET:HA	1.85	0.58
2:G:3233:PRO:HD2	2:G:3239:MET:SD	2.43	0.58
2:G:5013:MET:HE1	2:G:5021:PHE:HB3	1.86	0.58
2:B:215:THR:C	2:B:274:LEU:HD11	2.29	0.58
2:B:1229:ASN:HB3	2:B:1826:ALA:HB1	1.84	0.58
2:B:2185:ILE:HD13	2:B:2203:MET:HE3	1.81	0.58
2:B:2747:ILE:HD11	2:B:2751:LEU:HD23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3050:VAL:HG22	2:B:3057:PHE:CE2	2.34	0.58
2:B:3233:PRO:HD2	2:B:3239:MET:SD	2.43	0.58
2:I:296:ASP:OD1	2:I:297:GLN:N	2.36	0.58
2:I:1981:MET:HA	2:I:1981:MET:HE3	1.85	0.58
2:A:2644:LEU:HD12	2:A:2648:TYR:CE2	2.39	0.58
2:A:4127:GLU:O	2:A:4131:ARG:HG3	2.03	0.58
2:G:37:LEU:HD21	2:G:191:VAL:HG21	1.86	0.58
2:G:2997:PHE:HA	2:G:3001:ILE:HD13	1.85	0.58
2:B:37:LEU:HD21	2:B:191:VAL:HG21	1.86	0.58
2:B:2302:LEU:HD11	2:B:2332:LEU:HD13	1.84	0.58
2:B:2973:PHE:CD2	2:B:2995:ILE:HG22	2.38	0.58
2:I:176:SER:HB2	2:I:178:ARG:HH21	1.69	0.58
2:A:37:LEU:HD21	2:A:191:VAL:HG21	1.86	0.58
2:A:2696:TYR:CD2	2:A:3001:ILE:HG12	2.38	0.58
2:G:176:SER:HB2	2:G:178:ARG:HH21	1.69	0.58
2:G:177:GLU:O	2:I:2359:ARG:NH2	2.32	0.58
2:G:491:ILE:O	2:G:495:ASN:HB2	2.03	0.58
2:G:2208:MET:HE1	2:G:2257:LEU:HD21	1.86	0.58
2:G:2696:TYR:CD2	2:G:3001:ILE:HG12	2.38	0.58
2:G:4658:ILE:HD13	2:G:4792:LEU:HB3	1.86	0.58
2:B:2573:GLU:HA	2:B:2618:MET:HE1	1.85	0.58
2:B:4049:VAL:CG2	2:B:4159:ARG:HD2	2.32	0.58
2:B:4127:GLU:O	2:B:4131:ARG:HG3	2.03	0.58
2:I:977:LEU:HD11	2:I:1044:ARG:HG3	1.84	0.58
2:I:2644:LEU:HD12	2:I:2648:TYR:CE2	2.39	0.58
2:A:128:THR:HG21	2:A:185:ALA:HB3	1.85	0.58
2:A:215:THR:C	2:A:274:LEU:HD11	2.29	0.58
2:A:2747:ILE:HD11	2:A:2751:LEU:HD23	1.85	0.58
2:A:4658:ILE:HD13	2:A:4792:LEU:HB3	1.86	0.58
1:J:31:GLN:HE21	1:J:96:THR:CG2	2.17	0.58
2:G:296:ASP:OD1	2:G:297:GLN:N	2.36	0.58
2:G:861:ILE:HG21	2:G:933:LEU:HD12	1.86	0.58
2:G:4056:GLU:HG2	2:G:4166:LEU:CD2	2.34	0.58
2:B:4056:GLU:HG2	2:B:4166:LEU:CD2	2.34	0.58
2:B:4203:ALA:C	2:B:4207:MET:HE2	2.28	0.58
2:I:37:LEU:HD21	2:I:191:VAL:HG21	1.86	0.58
2:I:4127:GLU:O	2:I:4131:ARG:HG3	2.03	0.58
2:I:4658:ILE:HD13	2:I:4792:LEU:HB3	1.86	0.58
2:I:5013:MET:HE1	2:I:5021:PHE:HB3	1.86	0.58
2:A:233:ILE:HD12	2:A:242:ARG:HB3	1.86	0.58
2:A:681:HIS:HE2	2:A:683:ARG:NE	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4049:VAL:CG2	2:A:4159:ARG:HD2	2.32	0.58
2:G:233:ILE:HD12	2:G:242:ARG:HB3	1.86	0.58
2:G:2615:ARG:HH21	2:G:2618:MET:HE1	1.63	0.58
2:G:2715:VAL:HG11	2:G:2950:SER:HB2	1.86	0.58
2:G:2960:LEU:HD23	2:G:2963:LEU:HD12	1.86	0.58
2:B:176:SER:HB2	2:B:178:ARG:HH21	1.69	0.58
2:B:2208:MET:HE1	2:B:2257:LEU:HD21	1.86	0.58
2:I:681:HIS:HE2	2:I:683:ARG:NE	2.02	0.58
2:I:4678:ALA:HB1	2:I:4720:VAL:HG21	1.85	0.58
2:A:2208:MET:HE1	2:A:2257:LEU:HD21	1.86	0.57
2:A:3413:ILE:HG13	2:A:3414:ARG:N	2.19	0.57
2:A:4678:ALA:HB1	2:A:4720:VAL:HG21	1.85	0.57
2:G:4678:ALA:HB1	2:G:4720:VAL:HG21	1.85	0.57
2:B:2644:LEU:HD12	2:B:2648:TYR:CE2	2.39	0.57
2:I:2500:ALA:CA	2:I:2553:TYR:CE1	2.87	0.57
2:I:3416:VAL:CG2	2:I:3517:MET:CE	2.83	0.57
1:F:31:GLN:HE21	1:F:96:THR:CG2	2.17	0.57
2:A:1229:ASN:HB3	2:A:1826:ALA:HB1	1.84	0.57
2:G:158:SER:N	2:G:161:GLU:OE2	2.29	0.57
2:G:1819:VAL:O	2:G:1822:GLY:N	2.36	0.57
2:G:3414:ARG:O	2:G:3418:ASN:ND2	2.32	0.57
2:B:977:LEU:HD11	2:B:1044:ARG:HG3	1.84	0.57
2:B:2686:LEU:HG	2:B:2696:TYR:CE2	2.39	0.57
2:B:2696:TYR:CD2	2:B:3001:ILE:HG12	2.38	0.57
2:B:2762:THR:O	2:B:2766:TRP:N	2.35	0.57
2:I:3413:ILE:HG13	2:I:3414:ARG:N	2.19	0.57
2:A:158:SER:N	2:A:161:GLU:OE2	2.29	0.57
2:A:491:ILE:O	2:A:495:ASN:HB2	2.03	0.57
2:A:1781:CYS:SG	2:A:1783:VAL:HG22	2.45	0.57
2:A:2500:ALA:CA	2:A:2553:TYR:CE1	2.86	0.57
2:A:2762:THR:O	2:A:2766:TRP:N	2.35	0.57
2:A:3173:TYR:CE1	2:A:3244:PRO:HD3	2.39	0.57
2:A:3233:PRO:HD2	2:A:3239:MET:SD	2.43	0.57
2:G:1781:CYS:SG	2:G:1783:VAL:HG22	2.45	0.57
2:G:3413:ILE:HG13	2:G:3414:ARG:N	2.19	0.57
2:B:4189:ARG:HH11	2:B:4189:ARG:HB3	1.69	0.57
2:I:861:ILE:HG21	2:I:933:LEU:HD12	1.86	0.57
2:I:3215:ALA:O	2:I:3221:THR:OG1	2.21	0.57
2:A:4056:GLU:HG2	2:A:4166:LEU:CD2	2.34	0.57
2:G:2644:LEU:HD12	2:G:2648:TYR:CE2	2.39	0.57
2:G:2972:GLU:OE2	2:G:2976:HIS:NE2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3173:TYR:CE1	2:B:3244:PRO:HD3	2.39	0.57
2:B:3416:VAL:CG2	2:B:3517:MET:CE	2.83	0.57
2:I:2972:GLU:OE2	2:I:2976:HIS:NE2	2.38	0.57
2:I:3173:TYR:CE1	2:I:3244:PRO:HD3	2.39	0.57
2:I:4049:VAL:CG2	2:I:4159:ARG:HD2	2.32	0.57
2:A:2970:SER:HA	2:A:2973:PHE:CE1	2.39	0.57
1:H:31:GLN:HE21	1:H:96:THR:CG2	2.17	0.57
1:O:31:GLN:HE21	1:O:96:THR:CG2	2.17	0.57
2:G:3147:ILE:HG13	2:G:3152:PHE:HB2	1.87	0.57
2:B:2098:VAL:HA	2:B:2101:MET:HG2	1.87	0.57
2:B:2960:LEU:HD23	2:B:2963:LEU:HD12	1.86	0.57
2:I:1948:ASP:OD2	2:I:2126:ARG:NH2	2.22	0.57
2:I:3038:MET:O	2:I:3042:LEU:HD13	2.04	0.57
2:G:3927:GLN:HB3	2:G:3992:PHE:CE1	2.40	0.57
2:B:1781:CYS:SG	2:B:1783:VAL:HG22	2.45	0.57
2:B:2970:SER:HA	2:B:2973:PHE:CE1	2.39	0.57
2:B:3215:ALA:O	2:B:3221:THR:OG1	2.21	0.57
2:I:2715:VAL:HG11	2:I:2950:SER:HB2	1.86	0.57
2:A:2573:GLU:HA	2:A:2618:MET:HE1	1.86	0.57
2:A:3147:ILE:HG13	2:A:3152:PHE:HB2	1.86	0.57
2:A:3416:VAL:CG2	2:A:3517:MET:CE	2.83	0.57
2:A:5013:MET:HE1	2:A:5021:PHE:HB3	1.86	0.57
2:B:233:ILE:HD12	2:B:242:ARG:HB3	1.86	0.57
2:B:2972:GLU:OE2	2:B:2976:HIS:NE2	2.38	0.57
2:B:3038:MET:O	2:B:3042:LEU:HD13	2.05	0.57
2:I:4001:MET:HE1	2:I:4061:PHE:CD2	2.40	0.57
2:A:357:LEU:HD11	2:A:376:ALA:HB1	1.87	0.57
2:A:1520:VAL:HG12	2:A:1527:MET:HG2	1.85	0.57
2:A:2686:LEU:HG	2:A:2696:TYR:CE2	2.39	0.57
2:A:2972:GLU:OE2	2:A:2976:HIS:NE2	2.38	0.57
2:A:3320:LEU:CD2	2:A:3357:HIS:HB3	2.21	0.57
2:A:3927:GLN:HB3	2:A:3992:PHE:CE1	2.40	0.57
2:A:4791:TYR:HE1	2:A:4818:MET:HE1	1.65	0.57
2:G:215:THR:HA	2:G:274:LEU:HD12	1.87	0.57
2:G:357:LEU:HD11	2:G:376:ALA:HB1	1.87	0.57
2:G:2573:GLU:HA	2:G:2618:MET:HE1	1.86	0.57
2:G:3416:VAL:CG2	2:G:3517:MET:CE	2.83	0.57
2:B:363:ASP:HA	2:B:367:LEU:HD12	1.87	0.57
2:A:2644:LEU:HD12	2:A:2648:TYR:HE2	1.70	0.57
2:A:2960:LEU:HD23	2:A:2963:LEU:HD12	1.86	0.57
2:A:3037:GLU:O	2:A:3040:THR:OG1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3140:LEU:HG	2:G:3144:PHE:CZ	2.40	0.57
2:G:3725:TYR:O	2:G:3729:MET:HG3	2.05	0.57
2:G:4001:MET:HE1	2:G:4061:PHE:CD2	2.40	0.57
2:B:2562:ILE:HG21	2:B:2582:MET:HE1	1.86	0.57
2:B:4205:TRP:CZ3	2:B:4989:MET:HE1	2.40	0.57
2:I:897:ARG:HH11	2:I:901:LYS:HD2	1.70	0.57
2:A:4791:TYR:OH	2:A:4818:MET:CE	2.38	0.57
2:I:215:THR:C	2:I:274:LEU:HD11	2.29	0.57
2:I:215:THR:HA	2:I:274:LEU:HD12	1.87	0.57
2:I:2762:THR:O	2:I:2766:TRP:N	2.35	0.57
2:I:4735:GLU:OE1	2:I:4735:GLU:N	2.34	0.57
2:A:215:THR:CA	2:A:274:LEU:CD1	2.83	0.56
2:A:363:ASP:HA	2:A:367:LEU:HD12	1.87	0.56
2:G:2362:GLU:HA	2:G:2369:ARG:NH1	2.20	0.56
2:G:2621:HIS:O	2:G:2624:ARG:HB3	2.05	0.56
2:G:2964:LEU:CD2	2:G:3042:LEU:HD12	2.32	0.56
2:G:3173:TYR:CE1	2:G:3244:PRO:HD3	2.39	0.56
2:B:158:SER:N	2:B:161:GLU:OE2	2.29	0.56
2:B:681:HIS:HE2	2:B:683:ARG:NE	2.02	0.56
2:B:897:ARG:HH11	2:B:901:LYS:HD2	1.70	0.56
2:B:3327:LEU:CD1	2:B:3368:ARG:HH21	2.03	0.56
2:B:3416:VAL:HG21	2:B:3517:MET:CE	2.35	0.56
2:B:4001:MET:HE1	2:B:4061:PHE:CD2	2.40	0.56
2:I:233:ILE:HD12	2:I:242:ARG:HB3	1.86	0.56
2:I:1781:CYS:SG	2:I:1783:VAL:HG22	2.45	0.56
2:I:2562:ILE:HG21	2:I:2582:MET:HE1	1.86	0.56
2:I:3927:GLN:HB3	2:I:3992:PHE:CE1	2.40	0.56
2:A:2621:HIS:O	2:A:2624:ARG:HB3	2.05	0.56
2:A:3038:MET:O	2:A:3042:LEU:HD13	2.04	0.56
2:A:3725:TYR:O	2:A:3729:MET:HG3	2.05	0.56
2:A:4001:MET:HE1	2:A:4061:PHE:CD2	2.40	0.56
2:A:4189:ARG:HH11	2:A:4189:ARG:HB3	1.69	0.56
2:G:363:ASP:HA	2:G:367:LEU:HD12	1.87	0.56
2:G:2644:LEU:HD12	2:G:2648:TYR:HE2	1.70	0.56
2:I:363:ASP:HA	2:I:367:LEU:HD12	1.87	0.56
2:I:2964:LEU:CD2	2:I:3042:LEU:HD12	2.32	0.56
2:I:3533:ILE:HG22	2:I:3537:LYS:HE2	1.86	0.56
2:I:3725:TYR:O	2:I:3729:MET:HG3	2.05	0.56
2:A:176:SER:HB2	2:A:178:ARG:HH21	1.69	0.56
2:A:2098:VAL:HA	2:A:2101:MET:HG2	1.87	0.56
2:A:2736:ASP:OD1	2:A:2891:LYS:NZ	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3533:ILE:HG22	2:A:3537:LYS:HE2	1.86	0.56
2:A:4205:TRP:CZ3	2:A:4989:MET:HE1	2.40	0.56
2:G:897:ARG:HH11	2:G:901:LYS:HD2	1.70	0.56
2:G:1116:GLY:HA3	2:G:1132:TRP:HB3	1.88	0.56
2:G:2332:LEU:HD23	2:G:2429:LEU:N	2.21	0.56
2:G:2562:ILE:HG21	2:G:2582:MET:HE1	1.86	0.56
2:G:2992:GLU:O	2:G:2995:ILE:HG12	2.06	0.56
2:G:3038:MET:O	2:G:3042:LEU:HD13	2.04	0.56
2:G:3416:VAL:HG21	2:G:3517:MET:CE	2.35	0.56
2:B:357:LEU:HD11	2:B:376:ALA:HB1	1.87	0.56
2:B:861:ILE:HG21	2:B:933:LEU:HD12	1.86	0.56
2:B:2621:HIS:O	2:B:2624:ARG:HB3	2.05	0.56
2:B:2894:LEU:HA	2:B:2897:LYS:HZ3	1.66	0.56
2:B:3147:ILE:HG13	2:B:3152:PHE:HB2	1.86	0.56
2:B:3533:ILE:HG22	2:B:3537:LYS:HE2	1.86	0.56
2:B:3927:GLN:HB3	2:B:3992:PHE:CE1	2.40	0.56
2:I:1748:PHE:HE1	2:I:1760:HIS:HD2	1.53	0.56
2:I:2644:LEU:HD12	2:I:2648:TYR:HE2	1.70	0.56
2:I:3140:LEU:HG	2:I:3144:PHE:CZ	2.40	0.56
2:I:4056:GLU:HG2	2:I:4166:LEU:CD2	2.34	0.56
2:I:4104:THR:HG22	2:I:4107:GLU:CD	2.30	0.56
2:I:4205:TRP:CZ3	2:I:4989:MET:HE1	2.40	0.56
2:A:2472:LEU:HD23	2:A:2494:PHE:CZ	2.41	0.56
2:A:3240:CYS:HB3	2:A:3243:ILE:HD12	1.88	0.56
2:G:681:HIS:HE2	2:G:683:ARG:NE	2.02	0.56
2:G:2500:ALA:CA	2:G:2553:TYR:CE1	2.86	0.56
2:B:2332:LEU:HD23	2:B:2429:LEU:N	2.21	0.56
2:B:3240:CYS:HB3	2:B:3243:ILE:HD12	1.88	0.56
2:B:3413:ILE:HG13	2:B:3414:ARG:N	2.19	0.56
2:B:4104:THR:HG22	2:B:4107:GLU:CD	2.30	0.56
2:I:357:LEU:HD11	2:I:376:ALA:HB1	1.87	0.56
2:I:1116:GLY:HA3	2:I:1132:TRP:HB3	1.88	0.56
2:I:2098:VAL:HA	2:I:2101:MET:HG2	1.87	0.56
2:I:2621:HIS:O	2:I:2624:ARG:HB3	2.05	0.56
2:A:861:ILE:HG21	2:A:933:LEU:HD12	1.86	0.56
2:A:2332:LEU:HD23	2:A:2429:LEU:N	2.21	0.56
2:G:3533:ILE:HG22	2:G:3537:LYS:HE2	1.86	0.56
2:I:215:THR:CA	2:I:274:LEU:CD1	2.83	0.56
2:I:2970:SER:HA	2:I:2973:PHE:CE1	2.40	0.56
2:I:4189:ARG:HH11	2:I:4189:ARG:HB3	1.69	0.56
2:A:4104:THR:HG22	2:A:4107:GLU:CD	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4104:THR:HG22	2:G:4107:GLU:CD	2.30	0.56
2:B:2362:GLU:HA	2:B:2369:ARG:NH1	2.20	0.56
2:B:3068:LEU:HG	2:B:3139:VAL:CG2	2.28	0.56
2:I:4092:ASP:CG	2:I:4095:LYS:HZ3	2.14	0.56
2:A:2185:ILE:HD13	2:A:2203:MET:HE3	1.81	0.56
2:G:2970:SER:HA	2:G:2973:PHE:CE1	2.39	0.56
2:G:3844:LEU:O	2:G:3848:GLU:HG2	2.06	0.56
2:B:215:THR:HA	2:B:274:LEU:HD12	1.87	0.56
2:B:215:THR:CA	2:B:274:LEU:CD1	2.83	0.56
2:I:2332:LEU:HD23	2:I:2429:LEU:N	2.21	0.56
2:I:3240:CYS:HB3	2:I:3243:ILE:HD12	1.88	0.56
2:I:3844:LEU:O	2:I:3848:GLU:HG2	2.06	0.56
2:A:2715:VAL:HG11	2:A:2950:SER:HB2	1.86	0.56
2:A:3718:GLU:CD	2:A:3723:MET:HE1	2.31	0.56
2:G:215:THR:CA	2:G:274:LEU:CD1	2.83	0.56
2:B:1748:PHE:HE1	2:B:1760:HIS:HD2	1.53	0.56
2:B:3235:SER:O	2:B:3238:GLU:HG2	2.06	0.56
2:B:3324:VAL:O	2:B:3327:LEU:HD22	2.06	0.56
2:A:2540:THR:HG1	2:A:2541:PHE:HD2	1.53	0.56
2:A:3522:LEU:HD21	2:A:3603:LEU:HD21	1.88	0.56
2:G:3037:GLU:O	2:G:3040:THR:OG1	2.19	0.56
2:G:3240:CYS:HB3	2:G:3243:ILE:HD12	1.88	0.56
2:B:2638:LYS:CE	2:B:2698:MET:HG3	2.36	0.56
2:B:2715:VAL:HG11	2:B:2950:SER:HB2	1.86	0.56
2:B:3522:LEU:HD21	2:B:3603:LEU:HD21	1.88	0.56
2:B:3725:TYR:O	2:B:3729:MET:HG3	2.05	0.56
2:A:128:THR:OG1	2:A:186:SER:OG	2.24	0.56
2:A:1748:PHE:HE1	2:A:1760:HIS:HD2	1.53	0.56
2:A:3000:LYS:HB2	2:A:3001:ILE:HD12	1.88	0.56
2:G:1748:PHE:HE1	2:G:1760:HIS:HD2	1.53	0.56
2:B:128:THR:OG1	2:B:186:SER:OG	2.24	0.56
2:B:495:ASN:HD22	2:B:550:LYS:HE3	1.71	0.56
2:B:3140:LEU:HG	2:B:3144:PHE:CZ	2.40	0.56
2:B:5013:MET:HE1	2:B:5021:PHE:HB3	1.86	0.56
2:I:1827:ARG:O	2:I:1829:PRO:HD3	2.06	0.56
2:I:2029:GLN:NE2	2:I:2033:ASP:OD1	2.39	0.56
2:I:3416:VAL:HG21	2:I:3517:MET:CE	2.35	0.56
2:A:2992:GLU:O	2:A:2995:ILE:HG12	2.06	0.55
2:B:2472:LEU:HD23	2:B:2494:PHE:CZ	2.41	0.55
2:B:3000:LYS:HB2	2:B:3001:ILE:HD12	1.88	0.55
2:I:695:TYR:HD2	2:I:1240:LYS:HE3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2992:GLU:O	2:I:2995:ILE:HG12	2.06	0.55
2:I:3718:GLU:CD	2:I:3723:MET:HE1	2.31	0.55
2:A:215:THR:HA	2:A:274:LEU:HD12	1.87	0.55
2:A:897:ARG:HH11	2:A:901:LYS:HD2	1.70	0.55
2:A:2615:ARG:HH21	2:A:2618:MET:HE1	1.63	0.55
2:A:3844:LEU:O	2:A:3848:GLU:HG2	2.06	0.55
2:G:4205:TRP:CZ3	2:G:4989:MET:HE1	2.40	0.55
2:B:379:HIS:CD2	2:B:380:GLN:H	2.24	0.55
2:B:3281:LEU:CB	2:B:3312:LEU:HD21	2.37	0.55
2:I:379:HIS:CD2	2:I:380:GLN:H	2.24	0.55
2:I:3235:SER:O	2:I:3238:GLU:HG2	2.06	0.55
2:I:4104:THR:HG22	2:I:4107:GLU:HG2	1.88	0.55
2:A:2638:LYS:CE	2:A:2698:MET:HG3	2.36	0.55
2:G:2305:CYS:SG	2:G:2328:GLY:N	2.80	0.55
2:G:2472:LEU:HD23	2:G:2494:PHE:CZ	2.41	0.55
2:G:2700:MET:HB2	2:G:2701:PRO:HD3	1.89	0.55
2:G:3235:SER:O	2:G:3238:GLU:HG2	2.06	0.55
2:B:1116:GLY:HA3	2:B:1132:TRP:HB3	1.88	0.55
2:B:2644:LEU:HD12	2:B:2648:TYR:HE2	1.70	0.55
2:I:2362:GLU:HA	2:I:2369:ARG:NH1	2.20	0.55
2:I:2736:ASP:OD1	2:I:2891:LYS:NZ	2.39	0.55
2:I:3000:LYS:HB2	2:I:3001:ILE:HD12	1.88	0.55
2:A:800:PHE:O	2:A:802:PHE:N	2.40	0.55
2:A:1827:ARG:O	2:A:1829:PRO:HD3	2.06	0.55
2:A:2305:CYS:SG	2:A:2328:GLY:N	2.80	0.55
2:G:706:GLY:N	2:G:709:ASP:OD2	2.31	0.55
2:G:800:PHE:O	2:G:802:PHE:N	2.40	0.55
2:G:870:ILE:HG13	2:G:874:LEU:HD23	1.89	0.55
2:G:886:ARG:NE	2:G:904:HIS:HB2	2.22	0.55
2:B:1827:ARG:O	2:B:1829:PRO:HD3	2.06	0.55
2:B:2283:ASN:HB2	2:B:2286:LEU:HB2	1.88	0.55
2:B:2634:ASN:HD21	2:B:2636:PHE:HB2	1.72	0.55
2:B:3269:VAL:O	2:B:3274:LEU:HG	2.07	0.55
2:B:4104:THR:HG22	2:B:4107:GLU:HG2	1.88	0.55
2:B:4963:ILE:HB	2:B:4968:PHE:HE2	1.71	0.55
2:I:2283:ASN:HB2	2:I:2286:LEU:HB2	1.88	0.55
2:I:2638:LYS:CE	2:I:2698:MET:HG3	2.36	0.55
2:I:3269:VAL:O	2:I:3274:LEU:HG	2.07	0.55
2:A:2700:MET:HB2	2:A:2701:PRO:HD3	1.89	0.55
2:A:3529:ASP:OD2	2:A:3595:ARG:NH2	2.30	0.55
2:A:4655:PHE:CE2	2:A:4659:ILE:HD11	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4963:ILE:HB	2:A:4968:PHE:HE2	1.71	0.55
2:G:379:HIS:CD2	2:G:380:GLN:H	2.24	0.55
2:G:1638:ALA:HB1	2:G:1647:CYS:SG	2.47	0.55
2:G:1827:ARG:O	2:G:1829:PRO:HD3	2.06	0.55
2:B:800:PHE:O	2:B:802:PHE:N	2.40	0.55
2:B:3575:LEU:HD11	2:I:1208:VAL:HG11	1.88	0.55
2:B:3844:LEU:O	2:B:3848:GLU:HG2	2.06	0.55
2:I:3147:ILE:HG13	2:I:3152:PHE:HB2	1.87	0.55
2:I:3281:LEU:CB	2:I:3312:LEU:HD21	2.37	0.55
2:A:379:HIS:CD2	2:A:380:GLN:H	2.24	0.55
2:A:1116:GLY:HA3	2:A:1132:TRP:HB3	1.88	0.55
2:A:3140:LEU:HG	2:A:3144:PHE:CZ	2.40	0.55
2:A:3235:SER:O	2:A:3238:GLU:HG2	2.06	0.55
2:G:2634:ASN:HD21	2:G:2636:PHE:HB2	1.72	0.55
2:G:2736:ASP:OD1	2:G:2891:LYS:NZ	2.39	0.55
2:G:3000:LYS:HB2	2:G:3001:ILE:HD12	1.88	0.55
2:G:4963:ILE:HB	2:G:4968:PHE:HE2	1.71	0.55
2:B:870:ILE:HG13	2:B:874:LEU:HD23	1.89	0.55
2:B:2992:GLU:O	2:B:2995:ILE:HG12	2.06	0.55
2:B:3416:VAL:CG2	2:B:3517:MET:HE1	2.36	0.55
2:B:3554:GLN:NE2	2:B:3593:VAL:HG11	2.22	0.55
2:B:4976:GLU:O	2:B:4980:LEU:HD23	2.07	0.55
2:I:2634:ASN:HD21	2:I:2636:PHE:HB2	1.72	0.55
2:I:3414:ARG:O	2:I:3418:ASN:ND2	2.32	0.55
2:I:4092:ASP:CA	2:I:4095:LYS:HZ2	2.02	0.55
2:I:4655:PHE:CE2	2:I:4659:ILE:HD11	2.42	0.55
2:A:2029:GLN:NE2	2:A:2033:ASP:OD1	2.39	0.55
2:A:2031:LEU:HD11	2:A:3657:TYR:CE1	2.42	0.55
2:A:3324:VAL:O	2:A:3327:LEU:HD22	2.06	0.55
2:A:3554:GLN:NE2	2:A:3593:VAL:HG11	2.22	0.55
2:A:3768:SER:HA	2:A:3771:HIS:CE1	2.41	0.55
2:A:4128:PHE:HD1	2:A:4131:ARG:HH21	1.55	0.55
2:G:495:ASN:HD22	2:G:550:LYS:HE3	1.71	0.55
2:G:664:PHE:HB3	2:G:811:CYS:SG	2.47	0.55
2:G:2098:VAL:HA	2:G:2101:MET:HG2	1.87	0.55
2:G:2638:LYS:CE	2:G:2698:MET:HG3	2.36	0.55
2:G:4791:TYR:HE1	2:G:4818:MET:HE1	1.65	0.55
2:B:664:PHE:HB3	2:B:811:CYS:SG	2.46	0.55
2:B:2700:MET:HB2	2:B:2701:PRO:HD3	1.89	0.55
2:B:3320:LEU:CD2	2:B:3357:HIS:HB3	2.21	0.55
2:B:4204:GLN:HG2	2:B:4245:MET:HE3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4103:PHE:HB3	2:I:4107:GLU:HG3	1.88	0.55
2:I:4976:GLU:O	2:I:4980:LEU:HD23	2.07	0.55
1:F:31:GLN:HG3	1:F:98:ILE:HD11	1.89	0.55
2:G:3324:VAL:O	2:G:3327:LEU:HD22	2.06	0.55
2:B:2029:GLN:NE2	2:B:2033:ASP:OD1	2.39	0.55
2:B:2653:LYS:HG3	2:B:2661:TRP:CD1	2.42	0.55
2:B:3206:LEU:HD21	2:B:3276:MET:HE2	1.89	0.55
2:I:1638:ALA:HB1	2:I:1647:CYS:SG	2.47	0.55
2:I:2635:GLU:HA	2:I:2635:GLU:OE2	2.07	0.55
2:I:2700:MET:HB2	2:I:2701:PRO:HD3	1.89	0.55
2:A:695:TYR:HD2	2:A:1240:LYS:HE3	1.71	0.55
2:A:3206:LEU:HD21	2:A:3276:MET:CE	2.37	0.55
2:A:3269:VAL:O	2:A:3274:LEU:HG	2.07	0.55
2:A:4103:PHE:HB3	2:A:4107:GLU:HG3	1.88	0.55
2:G:875:ALA:O	2:G:879:HIS:ND1	2.40	0.55
2:G:3416:VAL:CG2	2:G:3517:MET:HE1	2.36	0.55
2:G:3989:VAL:CG2	2:G:4023:MET:CE	2.29	0.55
2:B:153:ALA:HB2	2:B:168:ASP:HB2	1.89	0.55
2:B:2497:ASP:OD1	2:B:2498:HIS:N	2.40	0.55
2:B:3718:GLU:CD	2:B:3723:MET:HE1	2.31	0.55
2:B:4967:TYR:CE2	2:B:5030:LYS:HG3	2.42	0.55
2:I:800:PHE:O	2:I:802:PHE:N	2.40	0.55
2:I:2439:GLU:OE2	2:I:2508:ARG:NH2	2.40	0.55
2:I:3324:VAL:O	2:I:3327:LEU:HD22	2.06	0.55
2:I:3989:VAL:CG2	2:I:4023:MET:CE	2.29	0.55
2:I:4791:TYR:HE1	2:I:4818:MET:HE1	1.65	0.55
2:A:870:ILE:HG13	2:A:874:LEU:HD23	1.89	0.55
2:A:2362:GLU:HA	2:A:2369:ARG:NH1	2.20	0.55
2:G:2031:LEU:HD11	2:G:3657:TYR:CE1	2.42	0.55
2:G:2439:GLU:OE2	2:G:2508:ARG:NH2	2.40	0.55
2:G:3206:LEU:HD21	2:G:3276:MET:CE	2.37	0.55
2:G:4045:VAL:HB	2:G:4159:ARG:HH11	1.72	0.55
2:B:1478:ASP:OD1	2:B:1482:ASN:N	2.40	0.55
2:B:1638:ALA:HB1	2:B:1647:CYS:SG	2.47	0.55
2:B:2305:CYS:SG	2:B:2328:GLY:N	2.80	0.55
2:B:2736:ASP:OD1	2:B:2891:LYS:NZ	2.39	0.55
2:B:4809:PHE:O	2:B:4812:HIS:HB2	2.07	0.55
2:I:128:THR:OG1	2:I:186:SER:OG	2.24	0.55
2:I:495:ASN:HD22	2:I:550:LYS:HE3	1.71	0.55
2:I:875:ALA:O	2:I:879:HIS:ND1	2.40	0.55
2:I:3206:LEU:HD21	2:I:3276:MET:CE	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3522:LEU:HD21	2:I:3603:LEU:HD21	1.88	0.55
2:I:3768:SER:HA	2:I:3771:HIS:CE1	2.41	0.55
2:I:4700:GLN:OE1	2:I:4703:ARG:NH2	2.40	0.55
2:A:2283:ASN:HB2	2:A:2286:LEU:HB2	1.88	0.54
2:A:2439:GLU:OE2	2:A:2508:ARG:NH2	2.40	0.54
2:A:3416:VAL:HG21	2:A:3517:MET:CE	2.35	0.54
1:J:31:GLN:HG3	1:J:98:ILE:HD11	1.89	0.54
1:O:31:GLN:HB3	2:B:1299:GLN:OE1	2.07	0.54
2:G:1490:SER:OG	2:G:1491:ASN:N	2.40	0.54
2:G:2497:ASP:OD1	2:G:2498:HIS:N	2.40	0.54
2:G:3522:LEU:HD21	2:G:3603:LEU:HD21	1.88	0.54
2:G:3768:SER:HA	2:G:3771:HIS:CE1	2.41	0.54
2:B:3274:LEU:HB2	2:B:3275:PRO:HD3	1.89	0.54
2:I:695:TYR:CD2	2:I:1240:LYS:HE3	2.43	0.54
2:I:2305:CYS:SG	2:I:2328:GLY:N	2.80	0.54
2:I:2472:LEU:HD23	2:I:2494:PHE:CZ	2.41	0.54
2:I:4967:TYR:CE2	2:I:5030:LYS:HG3	2.42	0.54
2:A:153:ALA:HB2	2:A:168:ASP:HB2	1.89	0.54
2:A:875:ALA:O	2:A:879:HIS:ND1	2.40	0.54
2:G:2029:GLN:NE2	2:G:2033:ASP:OD1	2.39	0.54
2:G:3718:GLU:CD	2:G:3723:MET:HE1	2.31	0.54
2:G:4204:GLN:HG2	2:G:4245:MET:HE3	1.88	0.54
2:G:4967:TYR:CE2	2:G:5030:LYS:HG3	2.42	0.54
2:B:2031:LEU:HD11	2:B:3657:TYR:CE1	2.42	0.54
2:B:3768:SER:HA	2:B:3771:HIS:CE1	2.42	0.54
2:B:4655:PHE:CE2	2:B:4659:ILE:HD11	2.42	0.54
2:B:4700:GLN:OE1	2:B:4703:ARG:NH2	2.40	0.54
2:I:870:ILE:HG13	2:I:874:LEU:HD23	1.89	0.54
2:I:3416:VAL:CG2	2:I:3517:MET:HE1	2.36	0.54
2:A:877:ASN:HA	2:A:970:LEU:H	1.73	0.54
2:A:1122:TYR:HE1	2:A:1133:HIS:CE1	2.26	0.54
2:A:4045:VAL:HB	2:A:4159:ARG:HH11	1.72	0.54
2:A:4976:GLU:O	2:A:4980:LEU:HD23	2.07	0.54
2:G:695:TYR:HD2	2:G:1240:LYS:HE3	1.71	0.54
2:G:3269:VAL:O	2:G:3274:LEU:HG	2.07	0.54
2:G:3274:LEU:HB2	2:G:3275:PRO:HD3	1.89	0.54
2:G:3320:LEU:O	2:G:3324:VAL:HG23	2.08	0.54
2:B:875:ALA:O	2:B:879:HIS:ND1	2.40	0.54
2:I:3554:GLN:NE2	2:I:3593:VAL:HG11	2.22	0.54
1:F:31:GLN:HB3	2:A:1299:GLN:OE1	2.07	0.54
2:A:2497:ASP:OD1	2:A:2498:HIS:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4204:GLN:HG2	2:A:4245:MET:HE3	1.88	0.54
2:G:128:THR:OG1	2:G:186:SER:OG	2.24	0.54
2:G:695:TYR:CD2	2:G:1240:LYS:HE3	2.43	0.54
2:G:1122:TYR:HE1	2:G:1133:HIS:CE1	2.26	0.54
2:G:2098:VAL:HG22	2:G:2101:MET:HE1	1.88	0.54
2:G:4103:PHE:HB3	2:G:4107:GLU:HG3	1.88	0.54
2:G:4655:PHE:CE2	2:G:4659:ILE:HD11	2.42	0.54
2:G:4976:GLU:O	2:G:4980:LEU:HD23	2.07	0.54
2:B:695:TYR:CD2	2:B:1240:LYS:HE3	2.43	0.54
2:B:3553:LEU:HB2	2:B:3593:VAL:HG13	1.89	0.54
2:B:4791:TYR:HE1	2:B:4818:MET:HE1	1.65	0.54
2:I:877:ASN:HA	2:I:970:LEU:H	1.73	0.54
2:I:1122:TYR:HE1	2:I:1133:HIS:CE1	2.26	0.54
2:I:3320:LEU:O	2:I:3324:VAL:HG23	2.08	0.54
2:I:3771:HIS:O	2:I:3815:LYS:NZ	2.38	0.54
2:A:495:ASN:HD22	2:A:550:LYS:HE3	1.71	0.54
2:A:695:TYR:CD2	2:A:1240:LYS:HE3	2.43	0.54
2:A:1638:ALA:HB1	2:A:1647:CYS:SG	2.47	0.54
2:A:2635:GLU:HA	2:A:2635:GLU:OE2	2.07	0.54
2:A:3227:ARG:HA	2:A:3232:LEU:CD1	2.37	0.54
2:A:4104:THR:HG22	2:A:4107:GLU:HG2	1.88	0.54
2:G:2653:LYS:HG3	2:G:2661:TRP:CD1	2.42	0.54
2:B:873:LYS:HG2	2:B:970:LEU:HD13	1.89	0.54
2:B:877:ASN:HA	2:B:970:LEU:H	1.73	0.54
2:B:3206:LEU:HD21	2:B:3276:MET:CE	2.37	0.54
2:I:664:PHE:HB3	2:I:811:CYS:SG	2.46	0.54
2:I:1490:SER:OG	2:I:1491:ASN:N	2.40	0.54
2:I:2497:ASP:OD1	2:I:2498:HIS:N	2.40	0.54
2:I:3262:ARG:HA	2:I:3326:ASN:OD1	2.08	0.54
2:I:4045:VAL:HB	2:I:4159:ARG:HH11	1.72	0.54
2:I:4809:PHE:O	2:I:4812:HIS:HB2	2.07	0.54
2:A:886:ARG:NE	2:A:904:HIS:HB2	2.22	0.54
2:A:2653:LYS:HG3	2:A:2661:TRP:CD1	2.42	0.54
2:G:877:ASN:HA	2:G:970:LEU:H	1.73	0.54
2:G:1478:ASP:OD1	2:G:1482:ASN:N	2.40	0.54
2:G:2635:GLU:HA	2:G:2635:GLU:OE2	2.07	0.54
2:G:4182:GLU:HB2	2:G:4983:HIS:HE2	1.73	0.54
2:B:695:TYR:HD2	2:B:1240:LYS:HE3	1.71	0.54
2:B:3067:CYS:O	2:B:3071:LEU:HD23	2.07	0.54
2:B:3227:ARG:HA	2:B:3232:LEU:CD1	2.37	0.54
2:I:2031:LEU:HD11	2:I:3657:TYR:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2653:LYS:HG3	2:I:2661:TRP:CD1	2.42	0.54
2:I:2807:TRP:HB2	2:I:2808:PRO:HD3	1.89	0.54
2:I:3762:ARG:HH11	2:I:3762:ARG:HG3	1.73	0.54
2:A:3416:VAL:CG2	2:A:3517:MET:HE1	2.36	0.54
1:H:31:GLN:HG3	1:H:98:ILE:HD11	1.89	0.54
2:G:2653:LYS:HB2	2:G:2657:LEU:HD12	1.89	0.54
2:G:3206:LEU:HD21	2:G:3276:MET:HE2	1.89	0.54
2:G:4104:THR:HG22	2:G:4107:GLU:HG2	1.88	0.54
2:B:182:LEU:HD22	2:B:198:THR:HG21	1.90	0.54
2:B:1122:TYR:HE1	2:B:1133:HIS:CE1	2.26	0.54
2:B:3320:LEU:O	2:B:3324:VAL:HG23	2.08	0.54
2:B:4045:VAL:HB	2:B:4159:ARG:HH11	1.72	0.54
2:I:873:LYS:HG2	2:I:970:LEU:HD13	1.89	0.54
2:I:2369:ARG:NE	2:I:2369:ARG:HA	2.23	0.54
2:I:4963:ILE:HB	2:I:4968:PHE:HE2	1.71	0.54
2:A:1490:SER:OG	2:A:1491:ASN:N	2.40	0.54
2:A:2634:ASN:HD21	2:A:2636:PHE:HB2	1.72	0.54
2:A:4809:PHE:O	2:A:4812:HIS:HB2	2.07	0.54
2:A:4839:MET:CB	2:G:4823:LEU:HD11	2.35	0.54
2:G:182:LEU:HD22	2:G:198:THR:HG21	1.90	0.54
2:G:3227:ARG:HA	2:G:3232:LEU:CD1	2.37	0.54
2:G:3554:GLN:NE2	2:G:3593:VAL:HG11	2.22	0.54
2:G:3813:GLN:HB3	2:G:3899:PHE:CE2	2.43	0.54
2:B:2439:GLU:OE2	2:B:2508:ARG:NH2	2.40	0.54
2:B:3044:CYS:SG	2:B:3092:LEU:HD22	2.48	0.54
2:B:4103:PHE:HB3	2:B:4107:GLU:HG3	1.88	0.54
2:I:182:LEU:HD22	2:I:198:THR:HG21	1.90	0.54
2:I:2624:ARG:O	2:I:2627:VAL:HG22	2.08	0.54
2:I:3067:CYS:O	2:I:3071:LEU:HD23	2.08	0.54
2:I:3553:LEU:HB2	2:I:3593:VAL:HG13	1.89	0.54
2:A:664:PHE:HB3	2:A:811:CYS:SG	2.46	0.54
2:A:1985:THR:O	2:A:1986:MET:HG3	2.08	0.54
2:A:3813:GLN:HB3	2:A:3899:PHE:CE2	2.43	0.54
2:A:4967:TYR:CE2	2:A:5030:LYS:HG3	2.42	0.54
2:G:2369:ARG:HA	2:G:2369:ARG:NE	2.23	0.54
2:G:3107:VAL:HG22	2:G:3175:LEU:HD21	1.90	0.54
2:B:1490:SER:OG	2:B:1491:ASN:N	2.40	0.54
2:I:3037:GLU:O	2:I:3040:THR:OG1	2.19	0.54
2:I:3157:ILE:HA	2:I:3161:VAL:CG2	2.38	0.54
2:A:182:LEU:HD22	2:A:198:THR:HG21	1.90	0.54
2:A:4735:GLU:OE1	2:A:4735:GLU:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:31:GLN:HA	1:J:98:ILE:HD11	1.90	0.54
2:G:153:ALA:HB2	2:G:168:ASP:HB2	1.89	0.54
2:G:2862:LEU:HD22	2:G:2929:PHE:HA	1.90	0.54
2:G:3035:GLU:CA	2:G:3038:MET:HE2	2.36	0.54
2:B:2653:LYS:HB2	2:B:2657:LEU:HD12	1.89	0.54
2:A:1478:ASP:OD1	2:A:1482:ASN:N	2.40	0.53
2:A:2807:TRP:HB2	2:A:2808:PRO:HD3	1.90	0.53
2:A:3107:VAL:HG22	2:A:3175:LEU:HD21	1.90	0.53
2:A:3262:ARG:HA	2:A:3326:ASN:OD1	2.08	0.53
2:A:3274:LEU:HB2	2:A:3275:PRO:HD3	1.89	0.53
2:A:3320:LEU:O	2:A:3324:VAL:HG23	2.08	0.53
2:G:2307:LEU:HD11	2:G:2362:GLU:HB2	1.91	0.53
2:G:4735:GLU:OE1	2:G:4735:GLU:N	2.34	0.53
2:B:3107:VAL:HG22	2:B:3175:LEU:HD21	1.90	0.53
2:B:3262:ARG:HA	2:B:3326:ASN:OD1	2.08	0.53
2:B:4077:PHE:CE1	2:B:4097:MET:HE1	2.43	0.53
2:I:2653:LYS:HB2	2:I:2657:LEU:HD12	1.89	0.53
2:I:3206:LEU:HD21	2:I:3276:MET:HE2	1.89	0.53
2:I:3813:GLN:HB3	2:I:3899:PHE:CE2	2.43	0.53
2:A:2964:LEU:CD2	2:A:3042:LEU:HD12	2.32	0.53
2:A:3044:CYS:SG	2:A:3092:LEU:HD22	2.48	0.53
2:A:4552:LEU:HA	2:A:4555:LEU:HD12	1.91	0.53
2:A:4677:LEU:HD21	2:A:4706:LEU:HD21	1.90	0.53
2:G:3067:CYS:O	2:G:3071:LEU:HD23	2.07	0.53
2:G:3281:LEU:CB	2:G:3312:LEU:HD21	2.37	0.53
2:G:3524:MET:HG3	2:G:3595:ARG:HD2	1.89	0.53
2:B:2862:LEU:HD22	2:B:2929:PHE:HA	1.90	0.53
2:B:3715:LYS:HD2	2:B:3715:LYS:C	2.34	0.53
2:B:3762:ARG:HG3	2:B:3762:ARG:HH11	1.73	0.53
2:B:3813:GLN:HB3	2:B:3899:PHE:CE2	2.43	0.53
2:I:2587:TYR:OH	2:I:2591:ARG:NH2	2.36	0.53
2:I:3529:ASP:OD2	2:I:3595:ARG:NH2	2.30	0.53
2:A:706:GLY:N	2:A:709:ASP:OD2	2.31	0.53
2:A:2653:LYS:HB2	2:A:2657:LEU:HD12	1.89	0.53
2:G:1985:THR:O	2:G:1986:MET:HG3	2.08	0.53
2:G:3553:LEU:HB2	2:G:3593:VAL:HG13	1.89	0.53
2:G:3634:ALA:HB1	2:G:3638:MET:HE2	1.91	0.53
2:G:3715:LYS:HD2	2:G:3715:LYS:C	2.34	0.53
2:G:4688:ILE:HD12	2:G:4737:ILE:HD12	1.91	0.53
2:B:2624:ARG:O	2:B:2627:VAL:HG22	2.08	0.53
2:B:4688:ILE:HD12	2:B:4737:ILE:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3634:ALA:HB1	2:I:3638:MET:HE2	1.91	0.53
2:A:3715:LYS:HD2	2:A:3715:LYS:C	2.34	0.53
2:A:4700:GLN:OE1	2:A:4703:ARG:NH2	2.40	0.53
1:O:31:GLN:HG3	1:O:98:ILE:HD11	1.89	0.53
2:G:1018:ASN:OD1	2:G:1019:PRO:HD2	2.09	0.53
2:G:2283:ASN:HB2	2:G:2286:LEU:HB2	1.88	0.53
2:G:2623:LEU:O	2:G:2627:VAL:HG13	2.08	0.53
2:G:2807:TRP:HB2	2:G:2808:PRO:HD3	1.90	0.53
2:G:3557:LEU:HD23	2:G:3557:LEU:H	1.74	0.53
2:G:3941:ASP:OD1	2:G:3942:VAL:N	2.42	0.53
2:G:4077:PHE:CE1	2:G:4097:MET:HE1	2.43	0.53
2:B:2635:GLU:HA	2:B:2635:GLU:OE2	2.07	0.53
2:B:3157:ILE:HA	2:B:3161:VAL:CG2	2.38	0.53
2:I:2867:LEU:HD22	2:I:2928:LYS:HG2	1.89	0.53
2:I:3107:VAL:HG22	2:I:3175:LEU:HD21	1.90	0.53
2:I:3524:MET:HG3	2:I:3595:ARG:HD2	1.89	0.53
2:I:4182:GLU:HB2	2:I:4983:HIS:HE2	1.73	0.53
2:A:3524:MET:HG3	2:A:3595:ARG:HD2	1.89	0.53
2:G:229:GLU:N	2:G:229:GLU:OE1	2.42	0.53
2:G:2515:GLN:O	2:G:2519:LEU:HD12	2.09	0.53
2:G:3262:ARG:HA	2:G:3326:ASN:OD1	2.08	0.53
2:G:4552:LEU:HA	2:G:4555:LEU:HD12	1.90	0.53
2:G:4809:PHE:O	2:G:4812:HIS:HB2	2.07	0.53
2:B:2623:LEU:O	2:B:2627:VAL:HG13	2.08	0.53
2:B:2656:CYS:HA	2:B:2711:PRO:HG3	1.91	0.53
2:B:3524:MET:HG3	2:B:3595:ARG:HD2	1.89	0.53
2:B:4128:PHE:HD1	2:B:4131:ARG:HH21	1.55	0.53
2:B:4677:LEU:HD21	2:B:4706:LEU:HD21	1.90	0.53
2:I:1076:ARG:NH2	2:I:1655:GLU:OE1	2.41	0.53
2:I:2307:LEU:HD11	2:I:2362:GLU:HB2	1.91	0.53
2:I:3227:ARG:HA	2:I:3232:LEU:CD1	2.37	0.53
2:A:2023:LEU:HD22	2:A:2027:ILE:HG21	1.91	0.53
2:A:2515:GLN:O	2:A:2519:LEU:HD12	2.09	0.53
2:A:2624:ARG:O	2:A:2627:VAL:HG22	2.08	0.53
2:A:3067:CYS:O	2:A:3071:LEU:HD23	2.08	0.53
1:O:31:GLN:HA	1:O:98:ILE:HD11	1.91	0.53
2:G:981:GLN:OE1	2:G:981:GLN:N	2.41	0.53
2:G:2624:ARG:O	2:G:2627:VAL:HG22	2.08	0.53
2:G:2960:LEU:HA	2:G:2963:LEU:HD12	1.91	0.53
2:G:3044:CYS:SG	2:G:3092:LEU:HD22	2.48	0.53
2:G:4677:LEU:HD21	2:G:4706:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2960:LEU:HA	2:B:2963:LEU:HD12	1.91	0.53
2:I:1478:ASP:OD1	2:I:1482:ASN:N	2.40	0.53
2:I:2515:GLN:O	2:I:2519:LEU:HD12	2.09	0.53
2:I:2623:LEU:O	2:I:2627:VAL:HG13	2.08	0.53
2:I:3274:LEU:HB2	2:I:3275:PRO:HD3	1.89	0.53
2:I:4000:MET:HE3	2:I:4017:LEU:HD21	1.90	0.53
2:I:4204:GLN:HG2	2:I:4245:MET:HE3	1.88	0.53
2:A:283:ARG:NH1	2:A:290:TYR:OH	2.42	0.53
2:A:981:GLN:OE1	2:A:981:GLN:N	2.41	0.53
2:A:2960:LEU:HA	2:A:2963:LEU:HD12	1.91	0.53
2:A:3206:LEU:HD21	2:A:3276:MET:HE2	1.89	0.53
2:A:3414:ARG:HH11	2:A:3414:ARG:HG3	1.74	0.53
2:A:3553:LEU:HB2	2:A:3593:VAL:HG13	1.89	0.53
2:A:3557:LEU:HD23	2:A:3557:LEU:H	1.74	0.53
2:A:4093:PHE:CD1	2:A:4097:MET:HE3	2.44	0.53
2:G:2023:LEU:HD22	2:G:2027:ILE:HG21	1.91	0.53
2:B:990:GLU:HG3	2:B:1024:TYR:CB	2.39	0.53
2:I:981:GLN:OE1	2:I:981:GLN:N	2.41	0.53
2:I:1018:ASN:OD1	2:I:1019:PRO:HD2	2.09	0.53
2:I:4093:PHE:CD1	2:I:4097:MET:HE3	2.44	0.53
2:I:4791:TYR:OH	2:I:4818:MET:CE	2.38	0.53
2:A:229:GLU:OE1	2:A:229:GLU:N	2.42	0.53
2:A:873:LYS:HG2	2:A:970:LEU:HD13	1.89	0.53
2:A:990:GLU:HG3	2:A:1024:TYR:CB	2.39	0.53
2:A:1076:ARG:NH2	2:A:1655:GLU:OE1	2.41	0.53
2:A:2867:LEU:HD22	2:A:2928:LYS:HG2	1.89	0.53
2:A:3218:VAL:HG23	2:A:3219:TYR:HD1	1.74	0.53
2:A:3281:LEU:CB	2:A:3312:LEU:HD21	2.37	0.53
2:A:3762:ARG:HH11	2:A:3762:ARG:HG3	1.73	0.53
2:A:4182:GLU:HB2	2:A:4983:HIS:HE2	1.73	0.53
2:G:721:LEU:HG	2:G:730:VAL:HG11	1.91	0.53
2:G:873:LYS:HG2	2:G:970:LEU:HD13	1.89	0.53
2:G:4128:PHE:HD1	2:G:4131:ARG:HH21	1.55	0.53
2:B:213:TYR:CD1	2:B:337:PRO:HB2	2.44	0.53
2:B:2023:LEU:HD22	2:B:2027:ILE:HG21	1.91	0.53
2:B:2307:LEU:HD11	2:B:2362:GLU:HB2	1.91	0.53
2:B:4182:GLU:HB2	2:B:4983:HIS:HE2	1.73	0.53
2:B:4563:ARG:NH1	2:B:4792:LEU:HD22	2.24	0.53
2:I:229:GLU:OE1	2:I:229:GLU:N	2.42	0.53
2:I:459:LEU:HD12	2:I:463:GLU:CG	2.34	0.53
2:I:1985:THR:O	2:I:1986:MET:HG3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2023:LEU:HD22	2:I:2027:ILE:HG21	1.91	0.53
2:I:3044:CYS:SG	2:I:3092:LEU:HD22	2.48	0.53
2:G:2384:ILE:HD11	2:G:2423:MET:HE1	1.91	0.53
2:G:2966:TRP:HA	2:G:2969:ILE:HD12	1.91	0.53
2:G:3246:LEU:HD11	2:G:3281:LEU:HD21	1.91	0.53
2:G:3391:GLU:HA	2:G:3394:VAL:HG12	1.91	0.53
2:I:153:ALA:HB2	2:I:168:ASP:HB2	1.89	0.53
2:I:990:GLU:HG3	2:I:1024:TYR:CB	2.39	0.53
2:I:2384:ILE:HD11	2:I:2423:MET:HE1	1.91	0.53
2:I:3391:GLU:HA	2:I:3394:VAL:HG12	1.91	0.53
2:A:2098:VAL:CB	2:A:2101:MET:HE2	2.39	0.53
2:A:3157:ILE:HA	2:A:3161:VAL:CG2	2.38	0.53
2:A:4563:ARG:NH1	2:A:4792:LEU:HD22	2.24	0.53
1:H:31:GLN:HA	1:H:98:ILE:HD11	1.91	0.53
2:B:1985:THR:O	2:B:1986:MET:HG3	2.08	0.53
2:B:2515:GLN:O	2:B:2519:LEU:HD12	2.09	0.53
2:B:2750:LYS:NZ	2:B:2824:GLU:OE1	2.37	0.53
2:B:4735:GLU:OE1	2:B:4735:GLU:N	2.34	0.53
2:I:2966:TRP:HA	2:I:2969:ILE:HD12	1.91	0.53
2:A:2500:ALA:N	2:A:2553:TYR:CE1	2.72	0.52
2:A:4077:PHE:CE1	2:A:4097:MET:HE1	2.43	0.52
2:G:162:LYS:NZ	2:I:3987:ASP:OD2	2.38	0.52
2:G:2867:LEU:HD22	2:G:2928:LYS:HG2	1.89	0.52
2:G:4563:ARG:NH1	2:G:4792:LEU:HD22	2.24	0.52
2:B:62:LEU:HD21	2:B:267:ILE:HG23	1.91	0.52
2:B:1018:ASN:OD1	2:B:1019:PRO:HD2	2.09	0.52
2:B:2500:ALA:CA	2:B:2553:TYR:CE1	2.86	0.52
2:B:2867:LEU:HD22	2:B:2928:LYS:HG2	1.90	0.52
2:B:3557:LEU:HD23	2:B:3557:LEU:H	1.74	0.52
2:I:62:LEU:HD21	2:I:267:ILE:HG23	1.91	0.52
2:I:3941:ASP:OD1	2:I:3942:VAL:N	2.42	0.52
2:A:213:TYR:CD1	2:A:337:PRO:HB2	2.44	0.52
2:A:2992:GLU:HA	2:A:2995:ILE:HG12	1.92	0.52
2:A:3290:GLU:HG3	2:A:3309:SER:H	1.75	0.52
2:G:283:ARG:NH1	2:G:290:TYR:OH	2.42	0.52
2:G:990:GLU:HG3	2:G:1024:TYR:CB	2.39	0.52
2:G:3290:GLU:HG3	2:G:3309:SER:H	1.75	0.52
2:G:4000:MET:HE3	2:G:4017:LEU:HD21	1.90	0.52
2:B:2098:VAL:CB	2:B:2101:MET:HE2	2.39	0.52
2:B:2807:TRP:HB2	2:B:2808:PRO:HD3	1.90	0.52
2:B:3290:GLU:HG3	2:B:3309:SER:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3771:HIS:O	2:B:3815:LYS:NZ	2.38	0.52
2:I:213:TYR:CD1	2:I:337:PRO:HB2	2.44	0.52
2:I:3414:ARG:HH11	2:I:3414:ARG:HG3	1.74	0.52
2:A:2623:LEU:O	2:A:2627:VAL:HG13	2.08	0.52
2:A:2966:TRP:HA	2:A:2969:ILE:HD12	1.91	0.52
2:A:3634:ALA:HB1	2:A:3638:MET:HE2	1.91	0.52
2:G:2656:CYS:HA	2:G:2711:PRO:HG3	1.91	0.52
2:G:2803:GLU:HA	2:G:2806:ARG:HB3	1.91	0.52
2:G:3281:LEU:HB3	2:G:3312:LEU:CD2	2.38	0.52
2:G:3414:ARG:HG3	2:G:3414:ARG:HH11	1.74	0.52
2:B:894:GLY:N	2:B:903:LEU:HD13	2.25	0.52
2:B:3414:ARG:HH11	2:B:3414:ARG:HG3	1.74	0.52
2:B:3529:ASP:OD2	2:B:3595:ARG:NH2	2.30	0.52
2:I:220:LEU:HB2	2:I:391:THR:O	2.10	0.52
2:I:2123:LEU:O	2:I:2127:GLN:HG2	2.09	0.52
2:I:2656:CYS:HA	2:I:2711:PRO:HG3	1.91	0.52
2:I:3715:LYS:HD2	2:I:3715:LYS:C	2.34	0.52
2:I:4077:PHE:CE1	2:I:4097:MET:HE1	2.43	0.52
2:I:4677:LEU:HD21	2:I:4706:LEU:HD21	1.90	0.52
2:A:1653:LEU:O	2:A:1660:GLN:NE2	2.38	0.52
2:A:2307:LEU:HD11	2:A:2362:GLU:HB2	1.91	0.52
2:A:3402:CYS:HA	2:A:3405:LEU:HD12	1.92	0.52
2:A:4948:GLU:HA	2:A:4951:LYS:HG2	1.91	0.52
2:G:2540:THR:HG1	2:G:2541:PHE:HD2	1.58	0.52
2:G:3157:ILE:HA	2:G:3161:VAL:CG2	2.38	0.52
2:G:4700:GLN:OE1	2:G:4703:ARG:NH2	2.40	0.52
2:B:981:GLN:OE1	2:B:981:GLN:N	2.41	0.52
2:B:3941:ASP:OD1	2:B:3942:VAL:N	2.42	0.52
2:B:4000:MET:HE3	2:B:4017:LEU:HD21	1.90	0.52
2:B:4552:LEU:HA	2:B:4555:LEU:HD12	1.91	0.52
2:I:3290:GLU:HG3	2:I:3309:SER:H	1.75	0.52
2:I:4235:VAL:HG13	2:I:4989:MET:HG3	1.91	0.52
2:I:4563:ARG:NH1	2:I:4792:LEU:HD22	2.24	0.52
2:A:459:LEU:HD12	2:A:463:GLU:CG	2.34	0.52
2:A:2656:CYS:HA	2:A:2711:PRO:HG3	1.91	0.52
2:A:2862:LEU:HD22	2:A:2929:PHE:HA	1.90	0.52
2:A:2862:LEU:HB2	2:A:2929:PHE:CD2	2.45	0.52
2:A:3648:ARG:NH2	2:A:3862:ASP:OD2	2.42	0.52
2:G:894:GLY:N	2:G:903:LEU:HD13	2.25	0.52
2:G:2123:LEU:O	2:G:2127:GLN:HG2	2.09	0.52
2:G:2760:GLU:HG2	2:G:2797:PHE:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2959:PHE:O	2:G:2963:LEU:HG	2.10	0.52
2:G:3762:ARG:HH11	2:G:3762:ARG:HG3	1.73	0.52
2:G:4235:VAL:HG13	2:G:4989:MET:HG3	1.91	0.52
2:B:232:THR:HG22	2:B:258:SER:HB3	1.92	0.52
2:B:283:ARG:NH1	2:B:290:TYR:OH	2.42	0.52
2:B:4093:PHE:CD1	2:B:4097:MET:HE3	2.44	0.52
2:I:484:LEU:O	2:I:488:LEU:HG	2.10	0.52
2:I:3557:LEU:HD23	2:I:3557:LEU:H	1.74	0.52
2:A:220:LEU:HB2	2:A:391:THR:O	2.10	0.52
2:A:232:THR:HG22	2:A:258:SER:HB3	1.92	0.52
2:A:721:LEU:HG	2:A:730:VAL:HG11	1.91	0.52
2:A:2760:GLU:HG2	2:A:2797:PHE:CE2	2.44	0.52
2:A:3246:LEU:HD11	2:A:3281:LEU:HD21	1.91	0.52
2:A:3281:LEU:HB3	2:A:3312:LEU:CD2	2.38	0.52
2:A:3941:ASP:OD1	2:A:3942:VAL:N	2.42	0.52
2:G:232:THR:HG22	2:G:258:SER:HB3	1.92	0.52
2:G:3332:ALA:HB1	2:G:3334:TRP:CD1	2.45	0.52
2:G:3402:CYS:HA	2:G:3405:LEU:HD12	1.92	0.52
2:G:4093:PHE:CD1	2:G:4097:MET:HE3	2.44	0.52
2:B:220:LEU:HD21	2:B:262:LEU:HG	1.92	0.52
2:B:706:GLY:N	2:B:709:ASP:OD2	2.31	0.52
2:B:2369:ARG:HA	2:B:2369:ARG:NE	2.23	0.52
2:B:2966:TRP:HA	2:B:2969:ILE:HD12	1.91	0.52
2:I:220:LEU:HD21	2:I:262:LEU:HG	1.92	0.52
2:I:2960:LEU:HA	2:I:2963:LEU:HD12	1.91	0.52
2:I:4128:PHE:HD1	2:I:4131:ARG:HH21	1.55	0.52
2:A:2369:ARG:NE	2:A:2369:ARG:HA	2.23	0.52
2:A:3332:ALA:HB1	2:A:3334:TRP:CD1	2.45	0.52
2:A:3357:HIS:O	2:A:3361:THR:HG23	2.10	0.52
2:A:3391:GLU:HA	2:A:3394:VAL:HG12	1.91	0.52
2:G:1649:ASP:OD1	2:G:1650:ILE:N	2.43	0.52
2:G:2992:GLU:HA	2:G:2995:ILE:HG12	1.91	0.52
2:B:2967:MET:HE2	2:B:3045:LYS:HE2	1.92	0.52
2:B:3634:ALA:HB1	2:B:3638:MET:HE2	1.91	0.52
2:I:1996:ARG:NE	2:I:1996:ARG:HA	2.25	0.52
2:I:4552:LEU:HA	2:I:4555:LEU:HD12	1.90	0.52
2:A:752:VAL:O	2:A:753:PRO:C	2.40	0.52
2:A:2384:ILE:HD11	2:A:2423:MET:HE1	1.91	0.52
2:A:2888:ARG:HA	2:A:2888:ARG:NE	2.25	0.52
2:A:3637:ARG:NH1	2:A:3638:MET:SD	2.83	0.52
2:G:213:TYR:CD1	2:G:337:PRO:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:484:LEU:O	2:G:488:LEU:HG	2.10	0.52
2:G:2098:VAL:CB	2:G:2101:MET:HE2	2.39	0.52
2:G:4636:THR:HG21	2:G:4639:MET:HE3	1.92	0.52
2:G:4948:GLU:HA	2:G:4951:LYS:HG2	1.91	0.52
2:B:459:LEU:HD12	2:B:463:GLU:CG	2.34	0.52
2:B:2123:LEU:O	2:B:2127:GLN:HG2	2.09	0.52
2:B:3218:VAL:HG23	2:B:3219:TYR:HD1	1.74	0.52
2:B:3246:LEU:HD11	2:B:3281:LEU:HD21	1.91	0.52
2:B:3402:CYS:HA	2:B:3405:LEU:HD12	1.92	0.52
2:B:3955:MET:HE1	2:B:4016:LEU:HD13	1.92	0.52
2:I:886:ARG:NE	2:I:904:HIS:HB2	2.22	0.52
2:I:2760:GLU:HG2	2:I:2797:PHE:CE2	2.44	0.52
2:I:2959:PHE:O	2:I:2963:LEU:HG	2.10	0.52
2:I:3332:ALA:HB1	2:I:3334:TRP:CD1	2.45	0.52
2:I:3648:ARG:NH2	2:I:3862:ASP:OD2	2.42	0.52
2:I:4636:THR:HG21	2:I:4639:MET:HE3	1.92	0.52
2:A:3045:LYS:O	2:A:3049:LEU:HD23	2.10	0.52
2:A:4077:PHE:HE1	2:A:4097:MET:CE	2.23	0.52
2:G:220:LEU:HB2	2:G:391:THR:O	2.10	0.52
2:G:3045:LYS:O	2:G:3049:LEU:HD23	2.10	0.52
2:G:3218:VAL:HG23	2:G:3219:TYR:HD1	1.74	0.52
2:G:3955:MET:HE1	2:G:4016:LEU:HD13	1.92	0.52
2:B:229:GLU:OE1	2:B:229:GLU:N	2.42	0.52
2:B:867:LEU:HD13	2:B:929:LEU:HB3	1.92	0.52
2:B:1976:ARG:NH1	2:B:1997:GLU:OE1	2.26	0.52
2:B:1996:ARG:HA	2:B:1996:ARG:NE	2.25	0.52
2:B:3332:ALA:HB1	2:B:3334:TRP:CD1	2.45	0.52
2:B:4077:PHE:HE1	2:B:4097:MET:CE	2.23	0.52
2:I:894:GLY:N	2:I:903:LEU:HD13	2.25	0.52
2:A:1018:ASN:OD1	2:A:1019:PRO:HD2	2.09	0.52
2:A:3955:MET:HE1	2:A:4016:LEU:HD13	1.92	0.52
2:A:4000:MET:HE3	2:A:4017:LEU:HD21	1.90	0.52
2:A:4688:ILE:HD12	2:A:4737:ILE:HD12	1.91	0.52
2:G:1996:ARG:NE	2:G:1996:ARG:HA	2.25	0.52
2:B:886:ARG:NE	2:B:904:HIS:HB2	2.22	0.52
2:B:1649:ASP:OD1	2:B:1650:ILE:N	2.43	0.52
2:B:3045:LYS:O	2:B:3049:LEU:HD23	2.10	0.52
2:I:1649:ASP:OD1	2:I:1650:ILE:N	2.43	0.52
2:I:2862:LEU:HD22	2:I:2929:PHE:HA	1.91	0.52
2:I:3368:ARG:HB3	2:I:3401:LEU:HD11	1.92	0.52
2:I:3579:LEU:HB2	2:I:3582:ARG:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4688:ILE:HD12	2:I:4737:ILE:HD12	1.91	0.52
2:A:62:LEU:HD21	2:A:267:ILE:HG23	1.91	0.51
2:A:484:LEU:O	2:A:488:LEU:HG	2.10	0.51
2:A:1649:ASP:OD1	2:A:1650:ILE:N	2.43	0.51
2:A:2932:MET:O	2:A:2934:GLY:N	2.43	0.51
2:G:2862:LEU:HB2	2:G:2929:PHE:CD2	2.45	0.51
2:G:3637:ARG:NH1	2:G:3638:MET:SD	2.83	0.51
2:B:2959:PHE:O	2:B:2963:LEU:HG	2.10	0.51
2:B:2992:GLU:HA	2:B:2995:ILE:HG12	1.92	0.51
2:I:232:THR:HG22	2:I:258:SER:HB3	1.92	0.51
2:I:283:ARG:NH1	2:I:290:TYR:OH	2.42	0.51
2:I:721:LEU:HG	2:I:730:VAL:HG11	1.91	0.51
2:I:1813:ARG:NH2	2:I:1817:GLU:OE2	2.43	0.51
2:I:2098:VAL:CB	2:I:2101:MET:HE2	2.39	0.51
2:I:4077:PHE:HE1	2:I:4097:MET:CE	2.23	0.51
1:F:31:GLN:HA	1:F:98:ILE:HD11	1.91	0.51
2:A:2123:LEU:O	2:A:2127:GLN:HG2	2.09	0.51
2:A:2624:ARG:NH2	2:A:2911:LEU:HA	2.25	0.51
2:G:62:LEU:HD21	2:G:267:ILE:HG23	1.91	0.51
2:G:2932:MET:O	2:G:2934:GLY:N	2.43	0.51
2:B:220:LEU:HB2	2:B:391:THR:O	2.10	0.51
2:B:484:LEU:O	2:B:488:LEU:HG	2.10	0.51
2:B:4948:GLU:HA	2:B:4951:LYS:HG2	1.91	0.51
2:I:3218:VAL:HG23	2:I:3219:TYR:HD1	1.74	0.51
2:I:3357:HIS:O	2:I:3361:THR:HG23	2.10	0.51
2:A:329:ARG:HA	2:A:329:ARG:NE	2.26	0.51
2:A:1996:ARG:NE	2:A:1996:ARG:HA	2.25	0.51
2:A:4807:PHE:CE1	2:B:4879:MET:HE1	2.45	0.51
2:G:3329:ILE:HG21	2:G:3332:ALA:HB3	1.93	0.51
2:B:748:LEU:HG	2:B:750:LEU:HG	1.93	0.51
2:B:2384:ILE:HD11	2:B:2423:MET:HE1	1.91	0.51
2:B:2888:ARG:NE	2:B:2888:ARG:HA	2.25	0.51
2:B:2917:ALA:HA	2:B:2920:ARG:HB2	1.93	0.51
2:B:3357:HIS:O	2:B:3361:THR:HG23	2.10	0.51
2:B:3637:ARG:NH1	2:B:3638:MET:SD	2.83	0.51
2:B:4097:MET:HB3	2:B:4108:ILE:HG12	1.93	0.51
2:B:4791:TYR:CD1	2:B:4818:MET:HE3	2.37	0.51
2:I:262:LEU:HB3	2:I:280:LEU:HD12	1.91	0.51
2:A:894:GLY:N	2:A:903:LEU:HD13	2.25	0.51
2:A:1155:LEU:HD22	2:A:1184:ILE:HG12	1.93	0.51
2:A:2959:PHE:O	2:A:2963:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3155:ASP:O	2:A:3155:ASP:OD1	2.29	0.51
2:G:974:HIS:HB2	2:G:976:ARG:NH2	2.26	0.51
2:G:2888:ARG:NE	2:G:2888:ARG:HA	2.25	0.51
2:G:2917:ALA:HA	2:G:2920:ARG:HB2	1.93	0.51
2:G:3843:ASP:OD1	2:G:3845:ASN:N	2.44	0.51
2:G:4077:PHE:HE1	2:G:4097:MET:CE	2.23	0.51
2:B:2862:LEU:HB2	2:B:2929:PHE:CD2	2.45	0.51
2:B:3329:ILE:HG21	2:B:3332:ALA:HB3	1.93	0.51
2:I:3099:ALA:HA	2:I:3136:LEU:HD11	1.93	0.51
2:I:3246:LEU:HD11	2:I:3281:LEU:HD21	1.91	0.51
2:A:41:GLY:O	2:A:116:MET:HE1	2.11	0.51
2:A:162:LYS:NZ	2:G:3987:ASP:OD2	2.43	0.51
2:A:3329:ILE:HG21	2:A:3332:ALA:HB3	1.93	0.51
2:G:984:LEU:HA	2:G:987:ARG:CZ	2.41	0.51
2:G:4097:MET:HB3	2:G:4108:ILE:HG12	1.93	0.51
2:B:2587:TYR:OH	2:B:2591:ARG:NH2	2.36	0.51
2:B:2760:GLU:HG2	2:B:2797:PHE:CE2	2.44	0.51
2:B:4235:VAL:HG13	2:B:4989:MET:HG3	1.91	0.51
2:I:974:HIS:HB2	2:I:976:ARG:NH2	2.26	0.51
2:I:2803:GLU:HA	2:I:2806:ARG:HB3	1.91	0.51
2:I:2932:MET:O	2:I:2934:GLY:N	2.43	0.51
2:I:3329:ILE:HG21	2:I:3332:ALA:HB3	1.93	0.51
2:I:3889:GLN:HG3	2:I:3967:GLU:HG3	1.93	0.51
2:A:984:LEU:HA	2:A:987:ARG:CZ	2.41	0.51
2:A:1813:ARG:NH2	2:A:1817:GLU:OE2	2.43	0.51
2:A:2917:ALA:HA	2:A:2920:ARG:HB2	1.93	0.51
2:A:3099:ALA:HA	2:A:3136:LEU:HD11	1.93	0.51
2:A:3579:LEU:HB2	2:A:3582:ARG:HB2	1.92	0.51
1:H:23:VAL:HG13	1:H:47:LYS:HG2	1.93	0.51
2:G:1653:LEU:O	2:G:1660:GLN:NE2	2.38	0.51
2:G:2771:ILE:HG21	2:G:2791:LEU:HG	1.93	0.51
2:G:3357:HIS:O	2:G:3361:THR:HG23	2.10	0.51
2:B:483:MET:HA	2:B:483:MET:HE3	1.93	0.51
2:B:940:GLY:H	2:B:1052:ASN:H	1.59	0.51
2:B:1813:ARG:NH2	2:B:1817:GLU:OE2	2.43	0.51
2:B:1924:GLU:HA	2:B:1928:GLN:CD	2.36	0.51
2:B:2301:TYR:HB3	2:B:2331:TYR:CE2	2.46	0.51
2:B:2559:LEU:HB3	2:B:2606:CYS:SG	2.51	0.51
2:B:3155:ASP:OD1	2:B:3155:ASP:O	2.28	0.51
2:B:3391:GLU:HA	2:B:3394:VAL:HG12	1.91	0.51
2:B:3579:LEU:HB2	2:B:3582:ARG:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3648:ARG:NH2	2:B:3862:ASP:OD2	2.41	0.51
2:B:3889:GLN:HG3	2:B:3967:GLU:HG3	1.93	0.51
2:I:2917:ALA:HA	2:I:2920:ARG:HB2	1.93	0.51
2:I:2967:MET:HE2	2:I:3045:LYS:HE2	1.92	0.51
2:I:3402:CYS:HA	2:I:3405:LEU:HD12	1.92	0.51
2:A:2803:GLU:HA	2:A:2806:ARG:HB3	1.91	0.51
2:A:2967:MET:HE2	2:A:3045:LYS:HE2	1.92	0.51
2:A:3186:LEU:O	2:A:3188:PRO:HD2	2.11	0.51
2:A:4204:GLN:HB3	2:A:4242:ILE:HD12	1.93	0.51
2:A:4636:THR:HG21	2:A:4639:MET:HE3	1.92	0.51
1:O:23:VAL:HG13	1:O:47:LYS:HG2	1.93	0.51
2:G:418:LEU:HD13	2:G:493:ARG:HB3	1.93	0.51
2:G:1813:ARG:NH2	2:G:1817:GLU:OE2	2.43	0.51
2:G:2624:ARG:NH2	2:G:2911:LEU:HA	2.25	0.51
2:G:3099:ALA:HA	2:G:3136:LEU:HD11	1.93	0.51
2:B:2321:ILE:HG13	2:B:2322:GLY:N	2.21	0.51
2:B:2750:LYS:HD3	2:B:2824:GLU:H	1.76	0.51
2:B:4204:GLN:HB3	2:B:4242:ILE:HD12	1.93	0.51
2:B:4856:PHE:O	2:B:4860:ARG:NH1	2.44	0.51
2:I:483:MET:HA	2:I:483:MET:HE3	1.93	0.51
2:I:1924:GLU:HA	2:I:1928:GLN:CD	2.36	0.51
2:I:4204:GLN:HB3	2:I:4242:ILE:HD12	1.93	0.51
2:I:4948:GLU:HA	2:I:4951:LYS:HG2	1.91	0.51
2:A:262:LEU:HB3	2:A:280:LEU:HD12	1.91	0.51
2:A:279:PRO:HA	2:A:314:PHE:O	2.11	0.51
2:A:3376:GLU:OE2	2:A:3450:ASN:ND2	2.40	0.51
2:A:3771:HIS:O	2:A:3815:LYS:NZ	2.38	0.51
2:G:24:CYS:SG	2:G:200:TRP:CE3	3.04	0.51
2:G:329:ARG:NE	2:G:329:ARG:HA	2.26	0.51
2:G:2301:TYR:HB3	2:G:2331:TYR:CE2	2.46	0.51
2:G:3205:PHE:CE2	2:G:3276:MET:HE2	2.36	0.51
2:G:3529:ASP:OD2	2:G:3595:ARG:NH2	2.30	0.51
2:G:3533:ILE:O	2:G:3537:LYS:HG2	2.11	0.51
2:G:3648:ARG:NH2	2:G:3862:ASP:OD2	2.41	0.51
2:B:984:LEU:HA	2:B:987:ARG:CZ	2.41	0.51
2:B:1155:LEU:HD22	2:B:1184:ILE:HG12	1.93	0.51
2:B:2615:ARG:HH21	2:B:2618:MET:HE1	1.63	0.51
2:B:3077:ALA:C	2:B:3079:THR:H	2.19	0.51
2:I:2301:TYR:HB3	2:I:2331:TYR:CE2	2.46	0.51
2:I:2626:LEU:HD13	2:I:2644:LEU:HD21	1.93	0.51
2:I:2668:SER:OG	2:I:2671:GLU:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2862:LEU:HB2	2:I:2929:PHE:CD2	2.45	0.51
2:I:3533:ILE:O	2:I:3537:LYS:HG2	2.11	0.51
2:I:3637:ARG:NH1	2:I:3638:MET:SD	2.83	0.51
2:A:220:LEU:HD21	2:A:262:LEU:HG	1.92	0.51
2:A:418:LEU:HD13	2:A:493:ARG:HB3	1.93	0.51
2:A:748:LEU:HG	2:A:750:LEU:HG	1.92	0.51
2:A:1924:GLU:HA	2:A:1928:GLN:CD	2.36	0.51
2:A:2301:TYR:HB3	2:A:2331:TYR:CE2	2.46	0.51
2:A:2750:LYS:HD3	2:A:2824:GLU:H	1.76	0.51
2:G:1155:LEU:HD22	2:G:1184:ILE:HG12	1.93	0.51
2:G:1259:ARG:NH1	2:G:1591:CYS:SG	2.84	0.51
2:G:1976:ARG:NH1	2:G:1997:GLU:OE1	2.26	0.51
2:G:3368:ARG:HB3	2:G:3401:LEU:HD11	1.92	0.51
2:B:2713:ASP:OD1	2:B:3016:TYR:OH	2.12	0.51
2:I:883:ALA:HA	2:I:886:ARG:CZ	2.41	0.51
2:I:2500:ALA:N	2:I:2553:TYR:CE1	2.72	0.51
2:I:3077:ALA:C	2:I:3079:THR:H	2.19	0.51
2:I:3155:ASP:OD1	2:I:3155:ASP:O	2.29	0.51
2:A:483:MET:HA	2:A:483:MET:HE3	1.93	0.51
2:A:2559:LEU:HB3	2:A:2606:CYS:SG	2.51	0.51
2:A:4735:GLU:O	2:A:4739:GLU:HG2	2.11	0.51
2:A:4856:PHE:O	2:A:4860:ARG:NH1	2.44	0.51
1:J:23:VAL:HG13	1:J:47:LYS:HG2	1.93	0.51
2:G:2321:ILE:HG13	2:G:2322:GLY:N	2.21	0.51
2:G:3186:LEU:O	2:G:3188:PRO:HD2	2.11	0.51
2:B:41:GLY:O	2:B:116:MET:HE1	2.11	0.51
2:B:974:HIS:HB2	2:B:976:ARG:NH2	2.26	0.51
2:B:2686:LEU:HG	2:B:2696:TYR:HE2	1.77	0.51
2:B:2771:ILE:HG21	2:B:2791:LEU:HG	1.93	0.51
2:I:940:GLY:H	2:I:1052:ASN:H	1.59	0.51
2:I:3955:MET:HE1	2:I:4016:LEU:HD13	1.92	0.51
2:I:4001:MET:HE2	2:I:4001:MET:HA	1.93	0.51
2:I:4856:PHE:O	2:I:4860:ARG:NH1	2.44	0.51
1:F:23:VAL:HG13	1:F:47:LYS:HG2	1.93	0.50
2:A:893:TYR:HA	2:A:903:LEU:O	2.11	0.50
2:A:2867:LEU:HD21	2:A:2927:LEU:HB3	1.93	0.50
2:A:3533:ILE:O	2:A:3537:LYS:HG2	2.11	0.50
2:A:3889:GLN:HG3	2:A:3967:GLU:HG3	1.93	0.50
2:A:4835:LYS:HE3	2:G:4822:THR:HG21	1.93	0.50
2:G:262:LEU:HB3	2:G:280:LEU:HD12	1.91	0.50
2:G:483:MET:HA	2:G:483:MET:HE3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:980:ALA:HB1	2:G:1055:PRO:HG3	1.94	0.50
2:G:1213:PHE:HD1	2:G:1216:ILE:HD12	1.77	0.50
2:G:2668:SER:OG	2:G:2671:GLU:HB2	2.11	0.50
2:G:3844:LEU:HD21	2:G:3936:TYR:HB2	1.93	0.50
2:B:721:LEU:HG	2:B:730:VAL:HG11	1.91	0.50
2:I:2992:GLU:HA	2:I:2995:ILE:HG12	1.92	0.50
2:A:227:MET:CE	2:A:389:PHE:HD2	2.14	0.50
2:A:941:MET:HB2	2:A:1051:TYR:CE1	2.47	0.50
2:A:2767:ALA:O	2:A:2790:MET:HE1	2.12	0.50
2:A:4235:VAL:HG13	2:A:4989:MET:HG3	1.91	0.50
1:J:31:GLN:HE21	1:J:96:THR:CB	2.24	0.50
1:O:31:GLN:HE21	1:O:96:THR:CB	2.24	0.50
2:G:220:LEU:HD21	2:G:262:LEU:HG	1.92	0.50
2:G:459:LEU:HD12	2:G:463:GLU:CG	2.34	0.50
2:G:3376:GLU:OE2	2:G:3450:ASN:ND2	2.40	0.50
2:G:3579:LEU:HB2	2:G:3582:ARG:HB2	1.92	0.50
2:G:4204:GLN:HB3	2:G:4242:ILE:HD12	1.93	0.50
2:B:262:LEU:HB3	2:B:280:LEU:HD12	1.91	0.50
2:B:279:PRO:HA	2:B:314:PHE:O	2.11	0.50
2:B:941:MET:HB2	2:B:1051:TYR:CE1	2.47	0.50
2:B:2626:LEU:HD13	2:B:2644:LEU:HD21	1.93	0.50
2:B:2932:MET:O	2:B:2934:GLY:N	2.43	0.50
2:B:3843:ASP:OD1	2:B:3845:ASN:N	2.44	0.50
2:B:4001:MET:HE2	2:B:4001:MET:HA	1.93	0.50
2:I:748:LEU:HG	2:I:750:LEU:HG	1.92	0.50
2:I:867:LEU:HD13	2:I:929:LEU:HB3	1.92	0.50
2:I:941:MET:HB2	2:I:1051:TYR:CE1	2.46	0.50
2:I:1155:LEU:HD22	2:I:1184:ILE:HG12	1.93	0.50
2:I:3033:ASN:O	2:I:3036:LYS:N	2.45	0.50
2:I:3281:LEU:HB3	2:I:3312:LEU:CD2	2.38	0.50
2:I:3844:LEU:HD21	2:I:3936:TYR:HB2	1.93	0.50
2:A:883:ALA:HA	2:A:886:ARG:CZ	2.41	0.50
2:A:974:HIS:HB2	2:A:976:ARG:NH2	2.26	0.50
2:A:3077:ALA:C	2:A:3079:THR:H	2.19	0.50
2:G:893:TYR:HA	2:G:903:LEU:O	2.11	0.50
2:G:3037:GLU:HB3	2:G:3088:VAL:HG21	1.93	0.50
2:G:3172:ILE:HD13	2:G:3194:LEU:HB2	1.94	0.50
2:G:3850:GLN:HB2	2:G:3873:LYS:NZ	2.27	0.50
2:B:3099:ALA:HA	2:B:3136:LEU:HD11	1.93	0.50
2:B:3172:ILE:HD13	2:B:3194:LEU:HB2	1.94	0.50
2:B:3850:GLN:HB2	2:B:3873:LYS:NZ	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:279:PRO:HA	2:I:314:PHE:O	2.11	0.50
2:I:663:TYR:CD2	2:I:804:PRO:HB3	2.47	0.50
2:I:2888:ARG:HA	2:I:2888:ARG:NE	2.25	0.50
2:I:3045:LYS:O	2:I:3049:LEU:HD23	2.10	0.50
2:I:3850:GLN:HB2	2:I:3873:LYS:NZ	2.27	0.50
1:F:31:GLN:NE2	1:F:96:THR:HB	2.26	0.50
2:A:1259:ARG:NH1	2:A:1591:CYS:SG	2.84	0.50
2:A:2696:TYR:CD2	2:A:3001:ILE:HD11	2.47	0.50
2:A:3844:LEU:HD21	2:A:3936:TYR:HB2	1.93	0.50
2:A:4212:GLU:CD	2:A:4215:ARG:HH12	2.20	0.50
1:H:31:GLN:HE21	1:H:96:THR:CB	2.24	0.50
2:G:1924:GLU:HA	2:G:1928:GLN:CD	2.36	0.50
2:G:3033:ASN:O	2:G:3036:LYS:N	2.45	0.50
2:B:842:PRO:O	2:B:1197:GLY:N	2.32	0.50
2:B:2624:ARG:NH2	2:B:2911:LEU:HA	2.25	0.50
2:B:2668:SER:OG	2:B:2671:GLU:HB2	2.11	0.50
2:B:2803:GLU:HA	2:B:2806:ARG:HB3	1.91	0.50
2:B:3844:LEU:HD21	2:B:3936:TYR:HB2	1.93	0.50
2:B:4735:GLU:O	2:B:4739:GLU:HG2	2.11	0.50
2:I:2771:ILE:HG21	2:I:2791:LEU:HG	1.93	0.50
2:I:3843:ASP:OD1	2:I:3845:ASN:N	2.44	0.50
2:I:4045:VAL:HG12	2:I:4159:ARG:CZ	2.40	0.50
2:A:2771:ILE:HG21	2:A:2791:LEU:HG	1.93	0.50
2:A:3346:VAL:HG21	2:A:3414:ARG:HB3	1.94	0.50
2:A:3368:ARG:HB3	2:A:3401:LEU:HD11	1.92	0.50
2:A:3709:ALA:HB2	2:A:3782:MET:SD	2.52	0.50
2:A:3934:TYR:CA	2:A:3999:MET:HE2	2.41	0.50
2:G:663:TYR:CD2	2:G:804:PRO:HB3	2.47	0.50
2:G:748:LEU:HG	2:G:750:LEU:HG	1.92	0.50
2:G:2559:LEU:HB3	2:G:2606:CYS:SG	2.51	0.50
2:G:3155:ASP:O	2:G:3155:ASP:OD1	2.29	0.50
2:G:3889:GLN:HG3	2:G:3967:GLU:HG3	1.93	0.50
2:B:883:ALA:HA	2:B:886:ARG:CZ	2.41	0.50
2:B:2767:ALA:O	2:B:2790:MET:HE1	2.12	0.50
2:B:2951:ILE:H	2:B:2951:ILE:HD12	1.77	0.50
2:I:329:ARG:HA	2:I:329:ARG:NE	2.26	0.50
2:I:752:VAL:O	2:I:753:PRO:C	2.40	0.50
2:I:984:LEU:HA	2:I:987:ARG:CZ	2.41	0.50
2:I:1259:ARG:NH1	2:I:1591:CYS:SG	2.84	0.50
2:A:980:ALA:HB1	2:A:1055:PRO:HG3	1.94	0.50
2:A:2626:LEU:HD13	2:A:2644:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3035:GLU:CA	2:A:3038:MET:HE2	2.36	0.50
2:G:752:VAL:O	2:G:753:PRO:C	2.40	0.50
2:G:867:LEU:HD13	2:G:929:LEU:HB3	1.92	0.50
2:G:883:ALA:HA	2:G:886:ARG:CZ	2.41	0.50
2:G:2951:ILE:H	2:G:2951:ILE:HD12	1.77	0.50
2:G:4856:PHE:O	2:G:4860:ARG:NH1	2.44	0.50
2:B:2527:LEU:HD12	2:B:2530:MET:CE	2.42	0.50
2:B:3281:LEU:HB3	2:B:3312:LEU:CD2	2.38	0.50
2:B:3368:ARG:HB3	2:B:3401:LEU:HD11	1.92	0.50
2:B:3987:ASP:OD2	2:I:162:LYS:NZ	2.40	0.50
2:B:4636:THR:HG21	2:B:4639:MET:HE3	1.92	0.50
2:I:876:GLU:HA	2:I:879:HIS:HD1	1.76	0.50
2:I:893:TYR:HA	2:I:903:LEU:O	2.11	0.50
2:I:1976:ARG:NH1	2:I:1997:GLU:OE1	2.26	0.50
2:I:2750:LYS:HD3	2:I:2824:GLU:H	1.76	0.50
2:A:24:CYS:SG	2:A:200:TRP:CE3	3.04	0.50
2:A:1827:ARG:C	2:A:1829:PRO:HD3	2.37	0.50
2:A:2630:VAL:HG13	2:A:2682:ILE:HD11	1.94	0.50
2:A:3005:LEU:HD12	2:A:3008:GLN:NE2	2.27	0.50
2:A:3037:GLU:HB3	2:A:3088:VAL:HG21	1.93	0.50
2:A:3595:ARG:O	2:A:3598:GLU:HG2	2.12	0.50
2:A:4097:MET:HB3	2:A:4108:ILE:HG12	1.93	0.50
2:G:984:LEU:HA	2:G:987:ARG:NH1	2.27	0.50
2:G:1676:LEU:HD22	2:G:2167:ILE:HD12	1.94	0.50
2:G:3327:LEU:CD1	2:G:3368:ARG:NH2	2.71	0.50
2:G:3984:ARG:NH1	2:G:3987:ASP:OD2	2.27	0.50
2:G:4212:GLU:CD	2:G:4215:ARG:HH12	2.20	0.50
2:B:980:ALA:HB1	2:B:1055:PRO:HG3	1.94	0.50
2:B:984:LEU:HA	2:B:987:ARG:NH1	2.27	0.50
2:B:4212:GLU:CD	2:B:4215:ARG:HH12	2.20	0.50
2:A:3850:GLN:HB2	2:A:3873:LYS:NZ	2.27	0.50
1:J:31:GLN:HB3	2:I:1299:GLN:OE1	2.12	0.50
2:G:41:GLY:O	2:G:116:MET:HE1	2.11	0.50
2:G:279:PRO:HA	2:G:314:PHE:O	2.11	0.50
2:G:2762:THR:O	2:G:2766:TRP:N	2.35	0.50
2:G:3595:ARG:O	2:G:3598:GLU:HG2	2.12	0.50
2:B:329:ARG:NE	2:B:329:ARG:HA	2.26	0.50
2:B:509:GLU:N	2:B:509:GLU:OE2	2.45	0.50
2:B:876:GLU:HA	2:B:879:HIS:HD1	1.76	0.50
2:B:877:ASN:ND2	2:B:970:LEU:HB3	2.27	0.50
2:B:4072:VAL:HG13	2:B:4125:PHE:HD2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2527:LEU:HD12	2:I:2530:MET:CE	2.42	0.50
2:I:2696:TYR:CD2	2:I:3001:ILE:HD11	2.47	0.50
2:I:3172:ILE:HD13	2:I:3194:LEU:HB2	1.94	0.50
2:A:932:LEU:HD22	2:A:984:LEU:HD21	1.94	0.50
2:A:2527:LEU:HD12	2:A:2530:MET:CE	2.42	0.50
2:A:2668:SER:OG	2:A:2671:GLU:HB2	2.11	0.50
2:A:3172:ILE:HD13	2:A:3194:LEU:HB2	1.94	0.50
1:O:31:GLN:NE2	1:O:96:THR:HB	2.26	0.50
2:G:877:ASN:ND2	2:G:970:LEU:HB3	2.27	0.50
2:G:940:GLY:H	2:G:1052:ASN:H	1.59	0.50
2:G:2686:LEU:HG	2:G:2696:TYR:HE2	1.77	0.50
2:G:2867:LEU:HD21	2:G:2927:LEU:HB3	1.93	0.50
2:B:2696:TYR:CD2	2:B:3001:ILE:HD11	2.47	0.50
2:B:3033:ASN:O	2:B:3036:LYS:N	2.45	0.50
2:B:3595:ARG:O	2:B:3598:GLU:HG2	2.12	0.50
2:I:418:LEU:HD13	2:I:493:ARG:HB3	1.93	0.50
2:I:2559:LEU:HB3	2:I:2606:CYS:SG	2.51	0.50
2:I:2624:ARG:NH2	2:I:2911:LEU:HA	2.25	0.50
2:I:3158:LEU:HD23	2:I:3159:ASP:H	1.77	0.50
2:I:3186:LEU:O	2:I:3188:PRO:HD2	2.11	0.50
2:I:3205:PHE:CE2	2:I:3276:MET:HE2	2.36	0.50
2:I:3595:ARG:O	2:I:3598:GLU:HG2	2.12	0.50
2:I:4072:VAL:HG13	2:I:4125:PHE:HD2	1.77	0.50
2:I:4233:LEU:HD11	2:I:4679:ARG:HH22	1.77	0.50
2:A:1213:PHE:HD1	2:A:1216:ILE:HD12	1.77	0.49
2:A:3033:ASN:O	2:A:3036:LYS:N	2.45	0.49
2:G:1827:ARG:C	2:G:1829:PRO:HD3	2.37	0.49
2:G:2527:LEU:HD12	2:G:2530:MET:CE	2.42	0.49
2:G:3158:LEU:HD23	2:G:3159:ASP:H	1.77	0.49
2:G:4735:GLU:O	2:G:4739:GLU:HG2	2.11	0.49
2:B:663:TYR:CD2	2:B:804:PRO:HB3	2.47	0.49
2:B:878:ILE:HD11	2:B:925:SER:HB2	1.94	0.49
2:B:1213:PHE:HD1	2:B:1216:ILE:HD12	1.77	0.49
2:B:1259:ARG:NH1	2:B:1591:CYS:SG	2.84	0.49
2:B:1641:ILE:HD11	2:B:1648:MET:HE3	1.95	0.49
2:B:3533:ILE:O	2:B:3537:LYS:HG2	2.11	0.49
2:I:2686:LEU:HG	2:I:2696:TYR:HE2	1.76	0.49
2:I:4097:MET:HB3	2:I:4108:ILE:HG12	1.93	0.49
2:A:984:LEU:HA	2:A:987:ARG:NH1	2.27	0.49
2:A:2469:ILE:CB	2:A:2502:MET:CE	2.89	0.49
2:A:2863:SER:OG	2:A:2925:GLU:OE2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2500:ALA:N	2:G:2553:TYR:CE1	2.72	0.49
2:G:2750:LYS:HD3	2:G:2824:GLU:H	1.76	0.49
2:B:2469:ILE:C	2:B:2502:MET:SD	2.95	0.49
2:I:2540:THR:HG1	2:I:2541:PHE:HD2	1.59	0.49
1:F:31:GLN:HE21	1:F:96:THR:CB	2.24	0.49
2:A:663:TYR:CD2	2:A:804:PRO:HB3	2.47	0.49
2:A:1641:ILE:HD11	2:A:1648:MET:HE3	1.94	0.49
2:A:2641:LEU:HD12	2:A:2698:MET:HB3	1.93	0.49
2:A:3971:GLY:O	2:A:3973:CYS:N	2.45	0.49
2:A:4001:MET:HE2	2:A:4001:MET:HA	1.93	0.49
2:G:3346:VAL:HG21	2:G:3414:ARG:HB3	1.94	0.49
2:B:2469:ILE:CB	2:B:2502:MET:CE	2.89	0.49
2:B:2985:ARG:HG2	2:B:2987:GLU:H	1.77	0.49
2:B:3186:LEU:O	2:B:3188:PRO:HD2	2.11	0.49
2:B:3201:MET:HE3	2:B:3205:PHE:CD1	2.44	0.49
2:I:1653:LEU:O	2:I:1660:GLN:NE2	2.38	0.49
2:I:2469:ILE:C	2:I:2502:MET:SD	2.96	0.49
2:I:2630:VAL:HG13	2:I:2682:ILE:HD11	1.94	0.49
2:I:2641:LEU:HD12	2:I:2698:MET:HB3	1.93	0.49
2:I:3194:LEU:HD21	2:I:3276:MET:HB2	1.94	0.49
2:A:2951:ILE:H	2:A:2951:ILE:HD12	1.77	0.49
2:A:2985:ARG:HG2	2:A:2987:GLU:H	1.77	0.49
1:H:31:GLN:NE2	1:H:96:THR:HB	2.26	0.49
2:G:2696:TYR:CD2	2:G:3001:ILE:HD11	2.47	0.49
2:G:3709:ALA:HB2	2:G:3782:MET:SD	2.52	0.49
2:G:3771:HIS:O	2:G:3815:LYS:NZ	2.38	0.49
2:G:4233:LEU:HD11	2:G:4679:ARG:HH22	1.77	0.49
2:B:893:TYR:HA	2:B:903:LEU:O	2.11	0.49
2:B:1827:ARG:C	2:B:1829:PRO:HD3	2.37	0.49
2:I:209:CYS:SG	2:I:334:MET:HE2	2.53	0.49
2:I:877:ASN:ND2	2:I:970:LEU:HB3	2.27	0.49
2:I:984:LEU:HA	2:I:987:ARG:NH1	2.27	0.49
2:I:1641:ILE:HD11	2:I:1648:MET:HE3	1.94	0.49
2:I:2767:ALA:O	2:I:2790:MET:HE1	2.12	0.49
2:I:2867:LEU:HD21	2:I:2927:LEU:HB3	1.93	0.49
2:I:2951:ILE:H	2:I:2951:ILE:HD12	1.77	0.49
2:I:3187:ARG:HH12	2:I:3267:PRO:CB	2.26	0.49
2:I:3851:ASN:OD1	2:I:3946:GLN:NE2	2.46	0.49
2:I:4212:GLU:CD	2:I:4215:ARG:HH12	2.20	0.49
2:A:1105:ALA:HB1	2:A:1109:LEU:HD22	1.95	0.49
2:A:2186:MET:O	2:A:2192:TYR:OH	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:509:GLU:N	2:G:509:GLU:OE2	2.45	0.49
2:G:835:ARG:NH1	2:G:1210:SER:O	2.46	0.49
2:G:879:HIS:HE2	2:G:922:LEU:HD12	1.77	0.49
2:G:2641:LEU:HD12	2:G:2698:MET:HB3	1.93	0.49
2:G:2767:ALA:O	2:G:2790:MET:HE1	2.12	0.49
2:G:3594:ARG:NH2	2:G:3598:GLU:OE1	2.46	0.49
2:G:3767:GLN:OE1	2:G:3809:ASN:ND2	2.46	0.49
2:G:3934:TYR:CA	2:G:3999:MET:HE2	2.41	0.49
2:B:2863:SER:OG	2:B:2925:GLU:OE2	2.30	0.49
2:B:2867:LEU:HD21	2:B:2927:LEU:HB3	1.93	0.49
2:B:3158:LEU:HD23	2:B:3159:ASP:H	1.77	0.49
2:I:41:GLY:O	2:I:116:MET:HE1	2.11	0.49
2:I:1676:LEU:HD22	2:I:2167:ILE:HD12	1.94	0.49
2:I:2863:SER:OG	2:I:2925:GLU:OE2	2.30	0.49
2:I:3709:ALA:HB2	2:I:3782:MET:SD	2.52	0.49
2:A:509:GLU:OE2	2:A:509:GLU:N	2.45	0.49
2:A:867:LEU:HD13	2:A:929:LEU:HB3	1.92	0.49
2:A:1676:LEU:HD22	2:A:2167:ILE:HD12	1.94	0.49
2:A:2575:ARG:NH1	2:A:2578:MET:SD	2.76	0.49
2:A:2644:LEU:O	2:A:2648:TYR:CD2	2.66	0.49
2:A:2929:PHE:HB2	2:A:2932:MET:SD	2.53	0.49
2:A:3327:LEU:HD21	2:A:3364:ARG:HH12	1.75	0.49
2:A:3843:ASP:OD1	2:A:3845:ASN:N	2.44	0.49
2:A:4791:TYR:CD1	2:A:4818:MET:HE3	2.37	0.49
2:G:941:MET:HB2	2:G:1051:TYR:CE1	2.46	0.49
2:G:1105:ALA:HB1	2:G:1109:LEU:HD22	1.94	0.49
2:G:2626:LEU:HD13	2:G:2644:LEU:HD21	1.93	0.49
2:G:2630:VAL:HG13	2:G:2682:ILE:HD11	1.94	0.49
2:G:2802:LYS:O	2:G:2806:ARG:HB2	2.13	0.49
2:G:2929:PHE:HB2	2:G:2932:MET:SD	2.53	0.49
2:G:2967:MET:HE2	2:G:3045:LYS:HE2	1.92	0.49
2:G:3005:LEU:HD12	2:G:3008:GLN:NE2	2.27	0.49
2:G:3077:ALA:C	2:G:3079:THR:H	2.19	0.49
2:G:4001:MET:HE2	2:G:4001:MET:HA	1.93	0.49
2:B:418:LEU:HD13	2:B:493:ARG:HB3	1.93	0.49
2:B:3005:LEU:HD12	2:B:3008:GLN:NE2	2.27	0.49
2:B:3599:VAL:O	2:B:3603:LEU:HD23	2.13	0.49
2:B:3709:ALA:HB2	2:B:3782:MET:SD	2.52	0.49
2:I:1213:PHE:HD1	2:I:1216:ILE:HD12	1.77	0.49
2:I:2186:MET:O	2:I:2192:TYR:OH	2.22	0.49
2:I:3346:VAL:HG21	2:I:3414:ARG:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3594:ARG:NH2	2:I:3598:GLU:OE1	2.46	0.49
2:I:3971:GLY:O	2:I:3973:CYS:N	2.45	0.49
2:A:209:CYS:SG	2:A:334:MET:CE	3.01	0.49
2:A:2469:ILE:C	2:A:2502:MET:SD	2.95	0.49
2:A:3767:GLN:OE1	2:A:3809:ASN:ND2	2.46	0.49
2:G:209:CYS:SG	2:G:334:MET:HE2	2.53	0.49
2:G:1926:LEU:HD13	2:G:1939:MET:SD	2.53	0.49
2:G:2863:SER:OG	2:G:2925:GLU:OE2	2.30	0.49
2:G:2985:ARG:HG2	2:G:2987:GLU:H	1.78	0.49
2:B:209:CYS:SG	2:B:334:MET:HE2	2.53	0.49
2:B:835:ARG:NH1	2:B:1210:SER:O	2.46	0.49
2:I:3599:VAL:O	2:I:3603:LEU:HD23	2.13	0.49
2:I:3776:ALA:HB1	2:I:3816:MET:HG2	1.94	0.49
2:I:4735:GLU:O	2:I:4739:GLU:HG2	2.11	0.49
2:A:972:LEU:HD11	2:A:975:VAL:HG21	1.95	0.49
2:A:3158:LEU:HD23	2:A:3159:ASP:H	1.77	0.49
2:G:2469:ILE:CB	2:G:2502:MET:CE	2.89	0.49
2:G:3327:LEU:HD21	2:G:3364:ARG:HH12	1.75	0.49
2:G:3851:ASN:OD1	2:G:3946:GLN:NE2	2.46	0.49
2:G:4072:VAL:HG13	2:G:4125:PHE:HD2	1.77	0.49
2:B:552:ASP:O	2:B:554:LEU:HD12	2.13	0.49
2:B:919:ASN:HA	2:B:922:LEU:HD13	1.95	0.49
2:B:2641:LEU:HD12	2:B:2698:MET:HB3	1.93	0.49
2:B:3327:LEU:CD1	2:B:3368:ARG:NH2	2.71	0.49
2:B:3851:ASN:OD1	2:B:3946:GLN:NE2	2.46	0.49
2:B:4885:PHE:O	2:B:4889:VAL:HG22	2.13	0.49
2:I:980:ALA:HB1	2:I:1055:PRO:HG3	1.94	0.49
2:I:4586:PRO:HG3	2:I:4629:TYR:CE2	2.48	0.49
2:A:876:GLU:HA	2:A:879:HIS:HD1	1.76	0.49
2:G:972:LEU:HD11	2:G:975:VAL:HG21	1.95	0.49
2:G:1076:ARG:NH2	2:G:1655:GLU:OE1	2.41	0.49
2:G:1455:PRO:HB3	2:G:1549:PHE:HE2	1.78	0.49
2:G:2469:ILE:C	2:G:2502:MET:SD	2.95	0.49
2:G:2538:THR:O	2:G:2542:SER:OG	2.28	0.49
2:G:3194:LEU:HD21	2:G:3276:MET:HB2	1.94	0.49
2:G:3524:MET:SD	2:G:3595:ARG:HG3	2.53	0.49
2:G:3768:SER:O	2:G:3772:THR:OG1	2.21	0.49
2:B:316:PHE:CE1	2:B:348:VAL:HG22	2.48	0.49
2:B:1076:ARG:NH2	2:B:1655:GLU:OE1	2.41	0.49
2:B:1455:PRO:HB3	2:B:1549:PHE:HE2	1.78	0.49
2:B:2500:ALA:N	2:B:2553:TYR:CE1	2.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2595:LEU:HD22	2:B:2599:GLN:NE2	2.27	0.49
2:B:3037:GLU:HB3	2:B:3088:VAL:HG21	1.94	0.49
2:B:3050:VAL:O	2:B:3050:VAL:CG1	2.61	0.49
2:I:209:CYS:SG	2:I:334:MET:CE	3.01	0.49
2:I:1186:ASP:OD1	2:I:1186:ASP:N	2.45	0.49
2:I:3934:TYR:CA	2:I:3999:MET:HE2	2.41	0.49
2:A:316:PHE:CE1	2:A:348:VAL:HG22	2.48	0.49
2:A:919:ASN:HA	2:A:922:LEU:HD13	1.95	0.49
2:A:2645:THR:HG1	2:A:2702:CYS:HG	1.55	0.49
2:A:3050:VAL:O	2:A:3050:VAL:CG1	2.61	0.49
2:A:3194:LEU:HD21	2:A:3276:MET:HB2	1.94	0.49
2:A:4233:LEU:HD11	2:A:4679:ARG:HH22	1.77	0.49
2:A:4885:PHE:O	2:A:4889:VAL:HG22	2.13	0.49
1:J:31:GLN:NE2	1:J:96:THR:HB	2.27	0.49
2:G:3445:TRP:CH2	2:G:3452:LYS:HA	2.48	0.49
2:B:1676:LEU:HD22	2:B:2167:ILE:HD12	1.94	0.49
2:B:3145:GLN:O	2:B:3149:GLN:HG2	2.13	0.49
2:B:3187:ARG:HH12	2:B:3267:PRO:CB	2.26	0.49
2:B:4045:VAL:HG12	2:B:4159:ARG:CZ	2.40	0.49
2:B:4251:ILE:HG13	2:B:4252:SER:N	2.28	0.49
2:I:158:SER:O	2:I:161:GLU:HG2	2.13	0.49
2:I:651:GLY:N	2:I:658:GLN:OE1	2.46	0.49
2:I:730:VAL:HG12	2:I:1476:MET:SD	2.53	0.49
2:I:1827:ARG:C	2:I:1829:PRO:HD3	2.37	0.49
2:I:4885:PHE:O	2:I:4889:VAL:HG22	2.13	0.49
1:F:31:GLN:NE2	1:F:96:THR:HG21	2.28	0.48
2:A:209:CYS:SG	2:A:334:MET:HE2	2.53	0.48
2:A:1455:PRO:HB3	2:A:1549:PHE:HE2	1.78	0.48
2:A:1926:LEU:HD13	2:A:1939:MET:SD	2.53	0.48
2:A:3034:LYS:O	2:A:3038:MET:HG3	2.13	0.48
2:G:209:CYS:SG	2:G:334:MET:CE	3.01	0.48
2:G:878:ILE:HD11	2:G:925:SER:HB2	1.94	0.48
2:G:2644:LEU:O	2:G:2648:TYR:CD2	2.66	0.48
2:G:4045:VAL:HG12	2:G:4159:ARG:CZ	2.40	0.48
2:B:2630:VAL:HG13	2:B:2682:ILE:HD11	1.94	0.48
2:B:3194:LEU:HD21	2:B:3276:MET:HB2	1.94	0.48
2:B:3767:GLN:OE1	2:B:3809:ASN:ND2	2.46	0.48
2:I:932:LEU:HD22	2:I:984:LEU:HD21	1.94	0.48
2:I:2323:TRP:CZ3	2:I:2325:PRO:HB3	2.48	0.48
2:I:2644:LEU:O	2:I:2648:TYR:CD2	2.66	0.48
2:I:3035:GLU:CA	2:I:3038:MET:HE2	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:158:SER:O	2:A:161:GLU:HG2	2.13	0.48
2:A:940:GLY:H	2:A:1052:ASN:H	1.59	0.48
2:A:2323:TRP:CZ3	2:A:2325:PRO:HB3	2.48	0.48
2:A:4104:THR:CG2	2:A:4107:GLU:HG2	2.43	0.48
2:A:4582:VAL:HG12	2:B:4877:ASP:O	2.13	0.48
2:G:767:VAL:HG12	2:G:769:GLU:HG3	1.96	0.48
2:B:209:CYS:SG	2:B:334:MET:CE	3.01	0.48
2:B:215:THR:HA	2:B:274:LEU:CD1	2.43	0.48
2:B:2644:LEU:O	2:B:2648:TYR:CD2	2.66	0.48
2:B:2929:PHE:HB2	2:B:2932:MET:SD	2.53	0.48
2:B:3034:LYS:O	2:B:3038:MET:HG3	2.13	0.48
2:B:3445:TRP:CH2	2:B:3452:LYS:HA	2.48	0.48
2:B:3701:LEU:HD21	2:B:3725:TYR:CD1	2.49	0.48
2:B:4233:LEU:HD11	2:B:4679:ARG:HH22	1.77	0.48
2:I:1455:PRO:HB3	2:I:1549:PHE:HE2	1.78	0.48
2:I:2802:LYS:O	2:I:2806:ARG:HB2	2.13	0.48
2:I:3037:GLU:HB3	2:I:3088:VAL:HG21	1.93	0.48
2:I:3445:TRP:CH2	2:I:3452:LYS:HA	2.49	0.48
2:A:842:PRO:O	2:A:1197:GLY:N	2.32	0.48
2:A:2624:ARG:HG3	2:A:2910:THR:HG22	1.96	0.48
2:A:2686:LEU:HG	2:A:2696:TYR:HE2	1.76	0.48
2:A:2862:LEU:HB2	2:A:2929:PHE:CE2	2.48	0.48
2:A:3201:MET:HE3	2:A:3205:PHE:CD1	2.44	0.48
2:A:3524:MET:SD	2:A:3595:ARG:HG3	2.53	0.48
2:A:3776:ALA:HB1	2:A:3816:MET:HG2	1.94	0.48
2:G:158:SER:O	2:G:161:GLU:HG2	2.13	0.48
2:G:1641:ILE:HD11	2:G:1648:MET:HE3	1.95	0.48
2:G:2765:LYS:HA	2:G:2860:PRO:HD2	1.95	0.48
2:G:3050:VAL:O	2:G:3050:VAL:CG1	2.61	0.48
2:G:3599:VAL:O	2:G:3603:LEU:HD23	2.13	0.48
2:G:3836:MET:CE	2:G:3885:PHE:CZ	2.86	0.48
2:B:972:LEU:HD11	2:B:975:VAL:HG21	1.95	0.48
2:B:1653:LEU:O	2:B:1660:GLN:NE2	2.38	0.48
2:B:2802:LYS:O	2:B:2806:ARG:HB2	2.13	0.48
2:B:3368:ARG:NH2	2:B:3404:ASP:OD2	2.46	0.48
2:B:3594:ARG:NH2	2:B:3598:GLU:OE1	2.46	0.48
2:I:640:TYR:HD2	2:I:1634:LEU:HB3	1.78	0.48
2:I:2765:LYS:HA	2:I:2860:PRO:HD2	1.96	0.48
2:I:3005:LEU:HD12	2:I:3008:GLN:NE2	2.27	0.48
2:I:3145:GLN:O	2:I:3149:GLN:HG2	2.13	0.48
2:I:3767:GLN:OE1	2:I:3809:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:730:VAL:HG12	2:A:1476:MET:SD	2.53	0.48
2:A:835:ARG:NH1	2:A:1210:SER:O	2.46	0.48
2:A:2742:THR:HG23	2:A:2743:LEU:HG	1.95	0.48
2:A:3599:VAL:O	2:A:3603:LEU:HD23	2.13	0.48
2:A:3836:MET:CE	2:A:3885:PHE:CZ	2.86	0.48
1:J:31:GLN:NE2	1:J:96:THR:HG21	2.28	0.48
1:O:31:GLN:NE2	1:O:96:THR:HG21	2.28	0.48
2:G:730:VAL:HG12	2:G:1476:MET:SD	2.53	0.48
2:G:2469:ILE:CG2	2:G:2502:MET:SD	3.02	0.48
2:G:2624:ARG:HG3	2:G:2910:THR:HG22	1.96	0.48
2:G:4104:THR:CG2	2:G:4107:GLU:HG2	2.43	0.48
2:G:4251:ILE:HG13	2:G:4252:SER:N	2.28	0.48
2:G:4885:PHE:O	2:G:4889:VAL:HG22	2.13	0.48
2:B:2742:THR:HG23	2:B:2743:LEU:HG	1.96	0.48
2:B:2862:LEU:HB2	2:B:2929:PHE:CE2	2.48	0.48
2:B:3247:ASP:OD1	2:B:3248:ARG:N	2.47	0.48
2:I:317:ARG:NH1	2:I:323:LEU:H	2.12	0.48
2:I:3050:VAL:O	2:I:3050:VAL:CG1	2.61	0.48
2:I:3524:MET:SD	2:I:3595:ARG:HG3	2.53	0.48
2:A:878:ILE:HD11	2:A:925:SER:HB2	1.94	0.48
2:A:893:TYR:O	2:A:960:MET:HE1	2.14	0.48
2:A:2765:LYS:HA	2:A:2860:PRO:HD2	1.96	0.48
2:A:3445:TRP:CH2	2:A:3452:LYS:HA	2.48	0.48
2:A:3851:ASN:OD1	2:A:3946:GLN:NE2	2.46	0.48
2:G:1983:ALA:C	2:G:1985:THR:H	2.22	0.48
2:G:3145:GLN:O	2:G:3149:GLN:HG2	2.13	0.48
2:G:4586:PRO:HG3	2:G:4629:TYR:CE2	2.48	0.48
2:B:24:CYS:SG	2:B:200:TRP:CE3	3.04	0.48
2:B:730:VAL:HG12	2:B:1476:MET:SD	2.53	0.48
2:B:1105:ALA:HB1	2:B:1109:LEU:HD22	1.95	0.48
2:B:3971:GLY:O	2:B:3973:CYS:N	2.45	0.48
2:B:4104:THR:CG2	2:B:4107:GLU:HG2	2.43	0.48
2:B:4586:PRO:HG3	2:B:4629:TYR:CE2	2.48	0.48
2:I:878:ILE:HD11	2:I:925:SER:HB2	1.94	0.48
2:I:2624:ARG:HG3	2:I:2910:THR:HG22	1.96	0.48
2:I:2656:CYS:SG	2:I:2657:LEU:N	2.87	0.48
2:I:3036:LYS:NZ	2:I:3076:ASP:OD1	2.33	0.48
2:A:2321:ILE:HG13	2:A:2322:GLY:N	2.21	0.48
2:A:2802:LYS:O	2:A:2806:ARG:HB2	2.13	0.48
2:A:3145:GLN:O	2:A:3149:GLN:HG2	2.13	0.48
2:A:4586:PRO:HG3	2:A:4629:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:31:GLN:HA	1:J:98:ILE:HD13	1.96	0.48
2:G:215:THR:HA	2:G:274:LEU:CD1	2.43	0.48
2:G:940:GLY:O	2:G:1051:TYR:HA	2.14	0.48
2:G:2742:THR:HG23	2:G:2743:LEU:HG	1.96	0.48
2:G:4722:ARG:HE	2:G:4722:ARG:HB2	1.45	0.48
2:B:2323:TRP:CZ3	2:B:2325:PRO:HB3	2.48	0.48
2:B:2964:LEU:CD2	2:B:3042:LEU:HD12	2.32	0.48
2:I:215:THR:HA	2:I:274:LEU:CD1	2.44	0.48
2:I:316:PHE:CE1	2:I:348:VAL:HG22	2.48	0.48
2:I:4251:ILE:HG13	2:I:4252:SER:N	2.28	0.48
2:A:877:ASN:ND2	2:A:970:LEU:HB3	2.27	0.48
2:G:1492:CYS:SG	2:G:1494:MET:HG3	2.54	0.48
2:G:2737:PRO:HG2	2:G:2888:ARG:HH12	1.79	0.48
2:G:4251:ILE:HG21	2:G:4550:LYS:HA	1.96	0.48
2:B:932:LEU:HD22	2:B:984:LEU:HD21	1.94	0.48
2:B:1926:LEU:HD13	2:B:1939:MET:SD	2.53	0.48
2:B:2469:ILE:CG2	2:B:2502:MET:SD	3.02	0.48
2:B:2765:LYS:HA	2:B:2860:PRO:HD2	1.96	0.48
2:I:1105:ALA:HB1	2:I:1109:LEU:HD22	1.95	0.48
2:I:1926:LEU:HD13	2:I:1939:MET:SD	2.53	0.48
2:I:4221:VAL:HG23	2:I:4230:LYS:HE3	1.96	0.48
2:A:3218:VAL:HG23	2:A:3219:TYR:CD1	2.49	0.48
2:A:3594:ARG:NH2	2:A:3598:GLU:OE1	2.46	0.48
2:A:3701:LEU:HD21	2:A:3725:TYR:CD1	2.49	0.48
2:A:3718:GLU:CD	2:A:3723:MET:CE	2.87	0.48
2:G:316:PHE:CE1	2:G:348:VAL:HG22	2.48	0.48
2:G:3701:LEU:HD21	2:G:3725:TYR:CD1	2.49	0.48
2:B:767:VAL:HG12	2:B:769:GLU:HG3	1.95	0.48
2:B:893:TYR:O	2:B:960:MET:HE1	2.14	0.48
2:B:1087:ARG:HG2	2:B:1154:ASP:HA	1.96	0.48
2:B:2624:ARG:HG3	2:B:2910:THR:HG22	1.96	0.48
2:B:3776:ALA:HB1	2:B:3816:MET:HG2	1.94	0.48
2:I:183:SER:O	2:I:183:SER:OG	2.28	0.48
2:I:919:ASN:HA	2:I:922:LEU:HD13	1.95	0.48
2:I:2470:ILE:HD13	2:I:2502:MET:HG3	1.96	0.48
2:I:2985:ARG:HG2	2:I:2987:GLU:H	1.78	0.48
2:A:4045:VAL:HG12	2:A:4159:ARG:CD	2.43	0.48
2:G:266:ARG:NH1	2:G:330:ASP:HB2	2.29	0.48
2:G:932:LEU:HD22	2:G:984:LEU:HD21	1.94	0.48
2:B:125:ARG:NH2	2:B:190:GLN:OE1	2.47	0.48
2:B:317:ARG:NH1	2:B:323:LEU:H	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2031:LEU:HD11	2:B:3657:TYR:HE1	1.79	0.48
2:B:2475:GLN:HG3	2:B:2488:PRO:HG2	1.95	0.48
2:B:2540:THR:HG1	2:B:2541:PHE:HD2	1.60	0.48
2:B:3524:MET:SD	2:B:3595:ARG:HG3	2.53	0.48
2:I:1983:ALA:C	2:I:1985:THR:H	2.22	0.48
2:I:4791:TYR:CD1	2:I:4818:MET:HE3	2.37	0.48
2:G:183:SER:O	2:G:189:LEU:HA	2.14	0.48
2:G:2323:TRP:CZ3	2:G:2325:PRO:HB3	2.48	0.48
2:G:3140:LEU:HG	2:G:3144:PHE:CE1	2.49	0.48
2:G:3776:ALA:HB1	2:G:3816:MET:HG2	1.94	0.48
2:G:4791:TYR:CD1	2:G:4818:MET:HE3	2.37	0.48
2:I:552:ASP:O	2:I:554:LEU:HD12	2.13	0.48
2:I:3197:LEU:HD23	2:I:3197:LEU:C	2.39	0.48
2:I:3403:ARG:HA	2:I:3458:PHE:CE1	2.49	0.48
2:I:4104:THR:CG2	2:I:4107:GLU:HG2	2.43	0.48
2:A:767:VAL:HG12	2:A:769:GLU:HG3	1.95	0.47
2:A:894:GLY:H	2:A:903:LEU:HD13	1.79	0.47
2:A:2093:SER:HB3	2:A:2096:GLU:HG3	1.96	0.47
2:A:2380:ILE:O	2:A:2384:ILE:HG12	2.14	0.47
2:A:2696:TYR:O	2:A:2700:MET:HE2	2.15	0.47
2:A:3247:ASP:OD1	2:A:3248:ARG:N	2.47	0.47
2:A:4137:ARG:NH1	2:A:4199:GLU:OE2	2.47	0.47
2:G:125:ARG:NH2	2:G:190:GLN:OE1	2.47	0.47
2:G:552:ASP:O	2:G:554:LEU:HD12	2.13	0.47
2:G:3100:SER:HB3	2:G:3167:ARG:HH11	1.79	0.47
2:G:3971:GLY:O	2:G:3973:CYS:N	2.45	0.47
2:B:158:SER:O	2:B:161:GLU:HG2	2.13	0.47
2:B:894:GLY:H	2:B:903:LEU:HD13	1.79	0.47
2:B:3346:VAL:HG21	2:B:3414:ARG:HB3	1.94	0.47
2:I:835:ARG:NH1	2:I:1210:SER:O	2.46	0.47
2:I:1733:GLU:HG2	2:I:2201:LEU:HD23	1.96	0.47
2:I:2638:LYS:HZ2	2:I:2698:MET:HG3	1.79	0.47
2:I:3034:LYS:O	2:I:3038:MET:HG3	2.14	0.47
2:I:3442:PHE:O	2:I:3445:TRP:HB3	2.14	0.47
2:I:4251:ILE:HG21	2:I:4550:LYS:HA	1.96	0.47
2:A:215:THR:HA	2:A:274:LEU:CD1	2.43	0.47
2:A:1733:GLU:HG2	2:A:2201:LEU:HD23	1.96	0.47
2:A:1808:ARG:HG3	2:A:1854:PHE:CE1	2.50	0.47
2:A:3442:PHE:O	2:A:3445:TRP:HB3	2.14	0.47
2:A:3793:MET:HE3	2:A:3793:MET:HB3	1.77	0.47
2:A:3987:ASP:OD2	2:B:162:LYS:NZ	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4072:VAL:HG13	2:A:4125:PHE:HD2	1.76	0.47
2:A:4251:ILE:HD11	2:A:4557:ARG:HH12	1.79	0.47
1:H:31:GLN:NE2	1:H:96:THR:HG21	2.28	0.47
2:G:1808:ARG:HG3	2:G:1854:PHE:CE1	2.49	0.47
2:G:2093:SER:HB3	2:G:2096:GLU:HG3	1.96	0.47
2:G:2380:ILE:O	2:G:2384:ILE:HG12	2.14	0.47
2:G:2656:CYS:SG	2:G:2657:LEU:N	2.87	0.47
2:G:3247:ASP:OD1	2:G:3248:ARG:N	2.47	0.47
2:G:3718:GLU:CD	2:G:3723:MET:CE	2.87	0.47
2:B:640:TYR:HD2	2:B:1634:LEU:HB3	1.78	0.47
2:B:2735:PHE:CZ	2:B:2737:PRO:HG3	2.50	0.47
2:B:2754:PHE:HA	2:B:2758:PHE:CB	2.44	0.47
2:B:3442:PHE:O	2:B:3445:TRP:HB3	2.14	0.47
2:I:183:SER:O	2:I:189:LEU:HA	2.14	0.47
2:I:580:GLU:HG3	2:I:620:LEU:HD22	1.97	0.47
2:I:767:VAL:HG12	2:I:769:GLU:HG3	1.96	0.47
2:I:972:LEU:HD11	2:I:975:VAL:HG21	1.95	0.47
2:I:987:ARG:HG2	2:I:987:ARG:HH11	1.79	0.47
2:I:2742:THR:HG23	2:I:2743:LEU:HG	1.96	0.47
2:I:3376:GLU:OE2	2:I:3450:ASN:ND2	2.40	0.47
2:I:3433:GLU:O	2:I:3437:MET:HG3	2.15	0.47
2:A:552:ASP:O	2:A:554:LEU:HD12	2.13	0.47
2:A:3100:SER:HB3	2:A:3167:ARG:HH11	1.79	0.47
2:A:4221:VAL:HG23	2:A:4230:LYS:HE3	1.96	0.47
2:A:4680:LYS:HE2	2:A:4680:LYS:HB2	1.66	0.47
1:O:7:ILE:HG23	2:B:719:LEU:HD11	1.94	0.47
2:G:873:LYS:HE2	2:G:970:LEU:HD22	1.97	0.47
2:G:1087:ARG:HG2	2:G:1154:ASP:HA	1.96	0.47
2:G:2470:ILE:HD13	2:G:2502:MET:HG3	1.96	0.47
2:G:2650:ARG:O	2:G:2661:TRP:HZ2	1.98	0.47
2:G:2862:LEU:HB2	2:G:2929:PHE:CE2	2.48	0.47
2:B:266:ARG:NH1	2:B:330:ASP:HB2	2.29	0.47
2:B:463:GLU:OE1	2:B:467:LYS:HE2	2.15	0.47
2:B:2273:LEU:HD11	2:B:2334:PHE:HB2	1.95	0.47
2:B:2319:PRO:HD3	2:B:2394:GLY:HA2	1.96	0.47
2:B:2465:ASP:O	2:B:2469:ILE:HG12	2.13	0.47
2:B:2656:CYS:SG	2:B:2657:LEU:N	2.87	0.47
2:I:2469:ILE:CG2	2:I:2502:MET:SD	3.02	0.47
2:I:2475:GLN:HG3	2:I:2488:PRO:HG2	1.95	0.47
2:I:2595:LEU:HD22	2:I:2599:GLN:NE2	2.27	0.47
2:I:2735:PHE:CZ	2:I:2737:PRO:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2929:PHE:HB2	2:I:2932:MET:SD	2.53	0.47
2:I:3718:GLU:CD	2:I:3723:MET:CE	2.87	0.47
2:A:516:LYS:HA	2:A:519:VAL:HG12	1.96	0.47
2:A:940:GLY:O	2:A:1051:TYR:HA	2.14	0.47
2:A:1087:ARG:HG2	2:A:1154:ASP:HA	1.96	0.47
2:A:2465:ASP:O	2:A:2469:ILE:HG12	2.13	0.47
2:A:2469:ILE:CB	2:A:2502:MET:HE1	2.31	0.47
2:G:919:ASN:HA	2:G:922:LEU:HD13	1.95	0.47
2:G:2465:ASP:O	2:G:2469:ILE:HG12	2.13	0.47
2:G:2624:ARG:HH21	2:G:2906:VAL:HG21	1.80	0.47
2:G:3034:LYS:O	2:G:3038:MET:HG3	2.13	0.47
2:G:3403:ARG:HA	2:G:3458:PHE:CE1	2.49	0.47
2:B:873:LYS:HE2	2:B:970:LEU:HD22	1.97	0.47
2:B:1985:THR:C	2:B:1987:SER:H	2.23	0.47
2:B:4694:ASP:HA	2:B:4700:GLN:HE21	1.79	0.47
2:I:2031:LEU:HD11	2:I:3657:TYR:HE1	1.79	0.47
2:I:2862:LEU:HB2	2:I:2929:PHE:CE2	2.48	0.47
2:I:3140:LEU:HG	2:I:3144:PHE:CE1	2.49	0.47
2:A:710:ASP:N	2:A:710:ASP:OD1	2.47	0.47
2:A:873:LYS:HE2	2:A:970:LEU:HD22	1.97	0.47
2:A:1492:CYS:SG	2:A:1494:MET:HG3	2.54	0.47
2:A:1976:ARG:NH1	2:A:1997:GLU:OE1	2.26	0.47
2:A:2735:PHE:CZ	2:A:2737:PRO:HG3	2.49	0.47
2:A:4045:VAL:HG12	2:A:4159:ARG:CZ	2.40	0.47
1:O:31:GLN:HA	1:O:98:ILE:HD13	1.96	0.47
2:G:1829:PRO:O	2:G:1832:GLY:N	2.44	0.47
2:G:2273:LEU:HD11	2:G:2334:PHE:HB2	1.95	0.47
2:G:2735:PHE:CZ	2:G:2737:PRO:HG3	2.50	0.47
2:G:3218:VAL:HG23	2:G:3219:TYR:CD1	2.49	0.47
2:B:1492:CYS:SG	2:B:1494:MET:HG3	2.54	0.47
2:B:3140:LEU:HG	2:B:3144:PHE:CE1	2.49	0.47
2:B:3197:LEU:HD23	2:B:3197:LEU:C	2.39	0.47
2:B:3718:GLU:CD	2:B:3723:MET:CE	2.87	0.47
2:B:4104:THR:HG22	2:B:4107:GLU:CG	2.45	0.47
2:I:940:GLY:O	2:I:1051:TYR:HA	2.14	0.47
2:I:1492:CYS:SG	2:I:1494:MET:HG3	2.54	0.47
2:I:2307:LEU:HD11	2:I:2362:GLU:HG3	1.97	0.47
2:I:2319:PRO:HD3	2:I:2394:GLY:HA2	1.96	0.47
2:I:2380:ILE:O	2:I:2384:ILE:HG12	2.14	0.47
2:I:3420:ARG:HG3	2:I:3520:ILE:HD11	1.96	0.47
2:A:266:ARG:NH1	2:A:330:ASP:HB2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2562:ILE:HG21	2:A:2582:MET:CE	2.44	0.47
2:A:2656:CYS:SG	2:A:2657:LEU:N	2.87	0.47
2:A:3847:PHE:HE2	2:A:3936:TYR:HE2	1.63	0.47
2:A:4130:ASN:HA	2:A:4133:GLN:HB2	1.96	0.47
2:A:4251:ILE:HG13	2:A:4252:SER:N	2.28	0.47
2:G:893:TYR:O	2:G:960:MET:HE1	2.14	0.47
2:G:2471:SER:HB2	2:G:2524:VAL:HG22	1.97	0.47
2:G:3037:GLU:HG3	2:G:3080:VAL:HG22	1.97	0.47
2:B:183:SER:O	2:B:189:LEU:HA	2.14	0.47
2:B:516:LYS:HA	2:B:519:VAL:HG12	1.96	0.47
2:B:940:GLY:O	2:B:1051:TYR:HA	2.14	0.47
2:B:987:ARG:HH11	2:B:987:ARG:HG2	1.80	0.47
2:B:2650:ARG:O	2:B:2661:TRP:HZ2	1.98	0.47
2:I:20:VAL:HG12	2:I:204:PRO:HA	1.97	0.47
2:I:125:ARG:NH2	2:I:190:GLN:OE1	2.47	0.47
2:I:893:TYR:O	2:I:960:MET:HE1	2.14	0.47
2:I:2093:SER:HB3	2:I:2096:GLU:HG3	1.96	0.47
2:I:2465:ASP:O	2:I:2469:ILE:HG12	2.13	0.47
2:I:2469:ILE:CB	2:I:2502:MET:CE	2.89	0.47
2:I:2624:ARG:HH21	2:I:2906:VAL:HG21	1.80	0.47
2:I:4694:ASP:HA	2:I:4700:GLN:HE21	1.79	0.47
2:A:580:GLU:HG3	2:A:620:LEU:HD22	1.97	0.47
2:A:974:HIS:HB2	2:A:976:ARG:HH22	1.80	0.47
2:A:2470:ILE:HD13	2:A:2502:MET:HG3	1.96	0.47
2:A:2650:ARG:O	2:A:2661:TRP:HZ2	1.98	0.47
2:A:2737:PRO:HG2	2:A:2888:ARG:HH12	1.79	0.47
2:A:2750:LYS:NZ	2:A:2824:GLU:OE1	2.37	0.47
2:A:2894:LEU:O	2:A:2897:LYS:NZ	2.48	0.47
2:A:2904:LEU:HD23	2:A:2904:LEU:H	1.80	0.47
2:A:3140:LEU:HG	2:A:3144:PHE:CE1	2.49	0.47
2:A:3187:ARG:HH12	2:A:3267:PRO:CB	2.26	0.47
2:A:3368:ARG:NH2	2:A:3404:ASP:OD2	2.46	0.47
2:A:3403:ARG:HA	2:A:3458:PHE:CE1	2.49	0.47
2:G:20:VAL:HG12	2:G:204:PRO:HA	1.97	0.47
2:G:463:GLU:OE1	2:G:467:LYS:HE2	2.15	0.47
2:G:640:TYR:HD2	2:G:1634:LEU:HB3	1.79	0.47
2:G:987:ARG:HG2	2:G:987:ARG:HH11	1.79	0.47
2:G:2268:GLN:HG3	2:G:2269:GLY:N	2.30	0.47
2:G:2696:TYR:O	2:G:2700:MET:HE2	2.15	0.47
2:G:3433:GLU:O	2:G:3437:MET:HG3	2.15	0.47
2:G:4683:PHE:CE2	2:G:5017:ARG:HG3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:183:SER:O	2:B:183:SER:OG	2.28	0.47
2:B:1261:ASP:OD1	2:B:1262:GLY:N	2.39	0.47
2:B:1748:PHE:HE1	2:B:1760:HIS:CD2	2.32	0.47
2:B:2093:SER:HB3	2:B:2096:GLU:HG3	1.96	0.47
2:B:2521:VAL:HA	2:B:2524:VAL:HG12	1.97	0.47
2:B:2679:PHE:HB2	2:B:2706:ILE:HG21	1.97	0.47
2:B:3035:GLU:CA	2:B:3038:MET:HE2	2.36	0.47
2:B:3037:GLU:HG3	2:B:3080:VAL:HG22	1.97	0.47
2:B:3403:ARG:HA	2:B:3458:PHE:CE1	2.49	0.47
2:B:3433:GLU:O	2:B:3437:MET:HG3	2.15	0.47
2:B:4077:PHE:CE1	2:B:4097:MET:CE	2.98	0.47
2:B:4130:ASN:HA	2:B:4133:GLN:HB2	1.96	0.47
2:B:4251:ILE:HG21	2:B:4550:LYS:HA	1.96	0.47
2:B:4683:PHE:CE2	2:B:5017:ARG:HG3	2.50	0.47
2:I:29:LEU:C	2:I:31:GLU:OE1	2.58	0.47
2:I:140:ASP:N	2:I:140:ASP:OD1	2.47	0.47
2:I:359:TYR:HB2	2:I:374:LYS:HB3	1.97	0.47
2:I:873:LYS:HE2	2:I:970:LEU:HD22	1.97	0.47
2:I:894:GLY:H	2:I:903:LEU:HD13	1.79	0.47
2:I:1087:ARG:HG2	2:I:1154:ASP:HA	1.96	0.47
2:I:2321:ILE:HG13	2:I:2322:GLY:N	2.21	0.47
2:I:2471:SER:HB2	2:I:2524:VAL:HG22	1.97	0.47
2:I:2650:ARG:O	2:I:2661:TRP:HZ2	1.98	0.47
2:I:2904:LEU:HD23	2:I:2904:LEU:H	1.80	0.47
2:I:3218:VAL:HG23	2:I:3219:TYR:CD1	2.49	0.47
2:I:3247:ASP:OD1	2:I:3248:ARG:N	2.47	0.47
2:I:3445:TRP:CZ3	2:I:3452:LYS:HA	2.50	0.47
2:I:3701:LEU:HD21	2:I:3725:TYR:CD1	2.49	0.47
2:I:4137:ARG:NH1	2:I:4199:GLU:OE2	2.47	0.47
2:I:4251:ILE:HD11	2:I:4557:ARG:HH12	1.79	0.47
2:I:4683:PHE:CE2	2:I:5017:ARG:HG3	2.50	0.47
1:F:7:ILE:HG23	2:A:719:LEU:HD11	1.96	0.47
2:A:29:LEU:C	2:A:31:GLU:OE1	2.58	0.47
2:A:317:ARG:NH1	2:A:323:LEU:H	2.12	0.47
2:A:2469:ILE:CG2	2:A:2502:MET:SD	3.02	0.47
2:A:3037:GLU:HG3	2:A:3080:VAL:HG22	1.97	0.47
2:A:4104:THR:HG22	2:A:4107:GLU:CG	2.45	0.47
2:A:4683:PHE:CE2	2:A:5017:ARG:HG3	2.50	0.47
2:G:894:GLY:H	2:G:903:LEU:HD13	1.79	0.47
2:G:2562:ILE:HG21	2:G:2582:MET:CE	2.44	0.47
2:G:2678:LEU:O	2:G:2682:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2816:MET:HA	2:G:2819:TRP:CE3	2.50	0.47
2:G:2819:TRP:CH2	2:G:2881:ASN:HB2	2.50	0.47
2:G:2894:LEU:O	2:G:2897:LYS:NZ	2.48	0.47
2:G:2959:PHE:CD2	2:G:2963:LEU:HD11	2.49	0.47
2:B:1983:ALA:C	2:B:1985:THR:H	2.22	0.47
2:B:2380:ILE:O	2:B:2384:ILE:HG12	2.14	0.47
2:B:2470:ILE:HD13	2:B:2502:MET:HG3	1.96	0.47
2:B:2696:TYR:O	2:B:2700:MET:HE2	2.15	0.47
2:B:2819:TRP:CH2	2:B:2881:ASN:HB2	2.50	0.47
2:B:2959:PHE:CD2	2:B:2963:LEU:HD11	2.49	0.47
2:B:3218:VAL:HG23	2:B:3219:TYR:CD1	2.49	0.47
2:B:3420:ARG:HG3	2:B:3520:ILE:HD11	1.96	0.47
2:B:4045:VAL:HG12	2:B:4159:ARG:CD	2.43	0.47
2:I:266:ARG:NH1	2:I:330:ASP:HB2	2.29	0.47
2:I:648:ILE:HG23	2:I:814:ALA:HB3	1.97	0.47
2:I:2521:VAL:HA	2:I:2524:VAL:HG12	1.97	0.47
2:I:2737:PRO:HG2	2:I:2888:ARG:HH12	1.79	0.47
2:I:2963:LEU:HD22	2:I:3006:ILE:HD11	1.97	0.47
2:I:3100:SER:HB3	2:I:3167:ARG:HH11	1.79	0.47
2:A:1748:PHE:HE1	2:A:1760:HIS:CD2	2.32	0.47
2:A:1983:ALA:C	2:A:1985:THR:H	2.22	0.47
2:A:2754:PHE:HA	2:A:2758:PHE:CB	2.44	0.47
1:O:85:THR:CG2	1:O:86:GLY:N	2.78	0.47
2:G:29:LEU:C	2:G:31:GLU:OE1	2.58	0.47
2:G:317:ARG:NH1	2:G:323:LEU:H	2.12	0.47
2:G:580:GLU:HG3	2:G:620:LEU:HD22	1.97	0.47
2:B:1186:ASP:OD1	2:B:1186:ASP:N	2.44	0.47
2:B:2970:SER:O	2:B:2974:ILE:HG23	2.15	0.47
2:I:516:LYS:HA	2:I:519:VAL:HG12	1.96	0.47
2:I:4049:VAL:O	2:I:4052:SER:OG	2.24	0.47
2:I:4077:PHE:CE1	2:I:4097:MET:CE	2.98	0.47
2:I:4182:GLU:O	2:I:4988:TYR:OH	2.33	0.47
2:A:320:LYS:HA	2:A:356:TRP:CH2	2.51	0.47
2:A:826:ILE:HG22	2:A:827:LYS:H	1.80	0.47
2:A:1985:THR:C	2:A:1987:SER:H	2.23	0.47
2:A:2273:LEU:HD11	2:A:2334:PHE:HB2	1.95	0.47
2:A:2538:THR:O	2:A:2542:SER:OG	2.28	0.47
2:A:2678:LEU:O	2:A:2682:ILE:HG12	2.15	0.47
2:A:2816:MET:HA	2:A:2819:TRP:CE3	2.50	0.47
2:G:516:LYS:HA	2:G:519:VAL:HG12	1.96	0.47
2:G:648:ILE:HG23	2:G:814:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3442:PHE:O	2:G:3445:TRP:HB3	2.14	0.47
2:G:4251:ILE:HD11	2:G:4557:ARG:HH12	1.79	0.47
2:B:140:ASP:OD1	2:B:140:ASP:N	2.47	0.47
2:B:815:VAL:HG11	2:B:821:LEU:HB2	1.97	0.47
2:B:2963:LEU:HD22	2:B:3006:ILE:HD11	1.97	0.47
2:B:3793:MET:HE3	2:B:3793:MET:HB3	1.77	0.47
2:I:24:CYS:SG	2:I:200:TRP:CE3	3.04	0.47
2:I:2273:LEU:HD11	2:I:2334:PHE:HB2	1.95	0.47
2:I:2678:LEU:O	2:I:2682:ILE:HG12	2.15	0.47
2:A:125:ARG:NH2	2:A:190:GLN:OE1	2.47	0.46
2:A:2475:GLN:HG3	2:A:2488:PRO:HG2	1.95	0.46
2:A:2624:ARG:HH21	2:A:2906:VAL:HG21	1.80	0.46
2:A:4930:ALA:HB2	2:G:4933:GLN:HG2	1.97	0.46
2:G:72:SER:HA	2:G:106:ALA:O	2.16	0.46
2:G:974:HIS:HB2	2:G:976:ARG:HH22	1.80	0.46
2:G:981:GLN:NE2	2:G:1053:ILE:HB	2.30	0.46
2:G:1028:ASP:OD1	2:G:1028:ASP:N	2.46	0.46
2:G:1087:ARG:HB3	2:G:1223:PHE:CD2	2.51	0.46
2:G:1286:MET:HE1	2:G:1553:PHE:HB3	1.97	0.46
2:G:3368:ARG:NH2	2:G:3404:ASP:OD2	2.46	0.46
2:G:3989:VAL:HA	2:G:4023:MET:CE	2.45	0.46
2:G:4104:THR:HG22	2:G:4107:GLU:CG	2.45	0.46
2:G:4221:VAL:HG23	2:G:4230:LYS:HE3	1.96	0.46
2:G:4948:GLU:HA	2:G:4951:LYS:CG	2.45	0.46
2:B:224:HIS:O	2:B:226:HIS:N	2.49	0.46
2:B:580:GLU:HG3	2:B:620:LEU:HD22	1.97	0.46
2:B:1733:GLU:HG2	2:B:2201:LEU:HD23	1.96	0.46
2:B:1808:ARG:HG3	2:B:1854:PHE:CE1	2.50	0.46
2:B:2469:ILE:HG22	2:B:2502:MET:SD	2.55	0.46
2:B:2471:SER:HB2	2:B:2524:VAL:HG22	1.97	0.46
2:B:2624:ARG:HH21	2:B:2906:VAL:HG21	1.80	0.46
2:B:2737:PRO:HG2	2:B:2888:ARG:HH12	1.79	0.46
2:I:1808:ARG:HG3	2:I:1854:PHE:CE1	2.50	0.46
2:I:2816:MET:HA	2:I:2819:TRP:CE3	2.50	0.46
2:I:3037:GLU:HG3	2:I:3080:VAL:HG22	1.97	0.46
2:I:3992:PHE:HB3	2:I:3996:PHE:CE2	2.51	0.46
2:I:4104:THR:HG22	2:I:4107:GLU:CG	2.45	0.46
2:I:4130:ASN:HA	2:I:4133:GLN:HB2	1.96	0.46
2:A:69:LEU:HD21	2:A:202:MET:HE1	1.94	0.46
2:A:640:TYR:HD2	2:A:1634:LEU:HB3	1.79	0.46
2:A:815:VAL:HG11	2:A:821:LEU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1037:ASP:O	2:A:1041:GLN:HG2	2.16	0.46
2:A:2132:GLY:O	2:A:2136:ARG:HG3	2.15	0.46
2:A:2521:VAL:HA	2:A:2524:VAL:HG12	1.97	0.46
2:A:2788:HIS:NE2	2:A:2790:MET:HG2	2.29	0.46
2:A:3989:VAL:HA	2:A:4023:MET:CE	2.45	0.46
2:G:651:GLY:N	2:G:658:GLN:OE1	2.46	0.46
2:G:2475:GLN:HG3	2:G:2488:PRO:HG2	1.95	0.46
2:G:2788:HIS:NE2	2:G:2790:MET:HG2	2.29	0.46
2:G:2904:LEU:H	2:G:2904:LEU:HD23	1.80	0.46
2:G:4049:VAL:O	2:G:4052:SER:OG	2.24	0.46
2:G:4694:ASP:HA	2:G:4700:GLN:HE21	1.79	0.46
2:B:483:MET:HE1	2:B:486:LEU:HD23	1.97	0.46
2:B:651:GLY:N	2:B:658:GLN:OE1	2.46	0.46
2:B:1037:ASP:O	2:B:1041:GLN:HG2	2.16	0.46
2:B:1829:PRO:O	2:B:1832:GLY:N	2.44	0.46
2:B:3100:SER:HB3	2:B:3167:ARG:HH11	1.79	0.46
2:B:3445:TRP:CZ3	2:B:3452:LYS:HA	2.50	0.46
2:B:3847:PHE:HE2	2:B:3936:TYR:HE2	1.63	0.46
2:B:3989:VAL:HA	2:B:4023:MET:CE	2.45	0.46
2:B:4137:ARG:NH1	2:B:4199:GLU:OE2	2.47	0.46
2:B:4251:ILE:HD11	2:B:4557:ARG:HH12	1.79	0.46
2:I:219:VAL:HG12	2:I:259:LEU:HD22	1.98	0.46
2:I:463:GLU:OE1	2:I:467:LYS:HE2	2.15	0.46
2:I:509:GLU:N	2:I:509:GLU:OE2	2.45	0.46
2:I:2696:TYR:O	2:I:2700:MET:HE2	2.15	0.46
2:I:3201:MET:HE3	2:I:3205:PHE:CD1	2.44	0.46
2:I:3989:VAL:HA	2:I:4023:MET:CE	2.45	0.46
1:F:24:VAL:HG12	1:F:103:LEU:HA	1.97	0.46
1:F:31:GLN:HA	1:F:98:ILE:HD13	1.96	0.46
2:A:1228:ILE:HG22	2:A:1827:ARG:NH1	2.27	0.46
2:A:1229:ASN:OD1	2:G:3570:ARG:NH1	2.48	0.46
2:A:2297:LYS:HE3	2:A:2301:TYR:HE2	1.81	0.46
2:A:2735:PHE:CE1	2:A:2737:PRO:HG3	2.51	0.46
2:A:2819:TRP:CH2	2:A:2881:ASN:HB2	2.50	0.46
2:A:3218:VAL:O	2:A:3222:LYS:HB2	2.16	0.46
1:J:24:VAL:HG12	1:J:103:LEU:HA	1.97	0.46
1:J:106:LEU:HD23	1:J:106:LEU:HA	1.83	0.46
2:G:884:LEU:HB2	2:G:969:PRO:HD3	1.97	0.46
2:G:2132:GLY:O	2:G:2136:ARG:HG3	2.15	0.46
2:G:2307:LEU:HD11	2:G:2362:GLU:HG3	1.97	0.46
2:G:2521:VAL:HA	2:G:2524:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3445:TRP:CZ3	2:G:3452:LYS:HA	2.50	0.46
2:G:4045:VAL:HG12	2:G:4159:ARG:CD	2.43	0.46
2:B:359:TYR:HB2	2:B:374:LYS:HB3	1.97	0.46
2:B:884:LEU:HB2	2:B:969:PRO:HD3	1.97	0.46
2:B:1493:TYR:CB	2:B:1527:MET:HE1	2.46	0.46
2:B:2562:ILE:HG21	2:B:2582:MET:CE	2.44	0.46
2:B:2816:MET:HA	2:B:2819:TRP:CE3	2.50	0.46
2:B:3376:GLU:OE2	2:B:3450:ASN:ND2	2.40	0.46
2:I:2584:HIS:NE2	2:I:2625:ARG:HD2	2.31	0.46
2:I:3155:ASP:O	2:I:3158:LEU:HD22	2.15	0.46
2:I:3445:TRP:CH2	2:I:3452:LYS:CG	2.93	0.46
2:A:219:VAL:HG12	2:A:259:LEU:HD22	1.98	0.46
2:A:2471:SER:HB2	2:A:2524:VAL:HG22	1.97	0.46
2:A:3420:ARG:HG3	2:A:3520:ILE:HD11	1.96	0.46
2:A:3445:TRP:CZ3	2:A:3452:LYS:HA	2.50	0.46
2:G:320:LYS:HA	2:G:356:TRP:CH2	2.50	0.46
2:G:2587:TYR:OH	2:G:2591:ARG:NH2	2.36	0.46
2:G:3218:VAL:O	2:G:3222:LYS:HB2	2.16	0.46
2:B:219:VAL:HG12	2:B:259:LEU:HD22	1.98	0.46
2:B:648:ILE:HG23	2:B:814:ALA:HB3	1.97	0.46
2:B:826:ILE:HG22	2:B:827:LYS:H	1.80	0.46
2:B:2538:THR:O	2:B:2542:SER:OG	2.28	0.46
2:B:2678:LEU:O	2:B:2682:ILE:HG12	2.15	0.46
2:B:4221:VAL:HG23	2:B:4230:LYS:HE3	1.96	0.46
2:I:320:LYS:HA	2:I:356:TRP:CH2	2.50	0.46
2:I:826:ILE:HG22	2:I:827:LYS:H	1.80	0.46
2:I:2458:ARG:HD3	2:I:2509:VAL:HG12	1.98	0.46
2:I:2679:PHE:HB2	2:I:2706:ILE:HG21	1.97	0.46
2:I:3100:SER:HB3	2:I:3167:ARG:NH1	2.31	0.46
2:I:4045:VAL:HG12	2:I:4159:ARG:CD	2.43	0.46
2:I:4948:GLU:HA	2:I:4951:LYS:CG	2.45	0.46
2:A:648:ILE:HG23	2:A:814:ALA:HB3	1.97	0.46
2:A:880:GLU:HB2	2:A:968:ALA:O	2.16	0.46
2:A:987:ARG:HG2	2:A:987:ARG:HH11	1.79	0.46
2:A:1087:ARG:HB3	2:A:1223:PHE:CD2	2.51	0.46
2:A:1261:ASP:OD1	2:A:1262:GLY:N	2.39	0.46
2:A:2676:ARG:NH1	2:A:2716:ASP:OD1	2.49	0.46
2:A:2970:SER:O	2:A:2974:ILE:HG23	2.15	0.46
2:A:4722:ARG:HE	2:A:4722:ARG:HB2	1.45	0.46
2:G:1039:LEU:HD23	2:G:1039:LEU:N	2.31	0.46
2:G:1228:ILE:HG22	2:G:1827:ARG:NH1	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2735:PHE:CE1	2:G:2737:PRO:HG3	2.51	0.46
2:G:3100:SER:HB3	2:G:3167:ARG:NH1	2.31	0.46
2:B:29:LEU:C	2:B:31:GLU:OE1	2.58	0.46
2:B:2307:LEU:HD11	2:B:2362:GLU:HG3	1.97	0.46
2:B:2584:HIS:NE2	2:B:2625:ARG:HD2	2.31	0.46
2:B:4823:LEU:HD11	2:I:4839:MET:CB	2.39	0.46
2:I:1087:ARG:HB3	2:I:1223:PHE:CD2	2.51	0.46
2:I:2132:GLY:O	2:I:2136:ARG:HG3	2.15	0.46
2:I:2562:ILE:HG21	2:I:2582:MET:CE	2.44	0.46
2:I:2819:TRP:CH2	2:I:2881:ASN:HB2	2.50	0.46
2:I:3218:VAL:O	2:I:3222:LYS:HB2	2.16	0.46
1:F:85:THR:CG2	1:F:86:GLY:N	2.78	0.46
2:A:224:HIS:O	2:A:226:HIS:N	2.49	0.46
2:A:1493:TYR:CB	2:A:1527:MET:HE1	2.46	0.46
2:A:2237:CYS:O	2:A:2241:ARG:HG3	2.16	0.46
2:A:2476:ILE:HG23	2:A:2536:LEU:HD11	1.98	0.46
2:A:3155:ASP:O	2:A:3158:LEU:HD22	2.15	0.46
2:A:4753:HIS:CG	2:A:4754:ASN:N	2.84	0.46
1:J:85:THR:CG2	1:J:86:GLY:N	2.78	0.46
2:G:1733:GLU:HG2	2:G:2201:LEU:HD23	1.96	0.46
2:G:3847:PHE:HE2	2:G:3936:TYR:HE2	1.63	0.46
2:G:3992:PHE:HB3	2:G:3996:PHE:CE2	2.51	0.46
2:B:320:LYS:HA	2:B:356:TRP:CH2	2.51	0.46
2:B:546:TRP:CE2	2:B:550:LYS:HE2	2.51	0.46
2:B:1595:LEU:HD12	2:B:1595:LEU:HA	1.78	0.46
2:B:2237:CYS:O	2:B:2241:ARG:HG3	2.16	0.46
2:B:2325:PRO:HG2	2:B:2421:ALA:HB1	1.97	0.46
2:B:2458:ARG:HD3	2:B:2509:VAL:HG12	1.98	0.46
2:B:3327:LEU:HD21	2:B:3364:ARG:HH12	1.75	0.46
2:B:3537:LYS:NZ	2:B:3603:LEU:HB2	2.31	0.46
2:I:2676:ARG:NH1	2:I:2716:ASP:OD1	2.49	0.46
2:I:3984:ARG:NH1	2:I:3987:ASP:OD2	2.27	0.46
1:F:44:LYS:HB3	1:F:44:LYS:HE3	1.63	0.46
2:A:359:TYR:HB2	2:A:374:LYS:HB3	1.97	0.46
2:A:483:MET:HE1	2:A:486:LEU:HD23	1.97	0.46
2:A:4251:ILE:HG21	2:A:4550:LYS:HA	1.96	0.46
2:A:5009:TYR:CZ	2:A:5013:MET:HE2	2.51	0.46
2:G:219:VAL:HG12	2:G:259:LEU:HD22	1.98	0.46
2:G:815:VAL:HG11	2:G:821:LEU:HB2	1.97	0.46
2:G:1229:ASN:OD1	2:I:3570:ARG:NH1	2.49	0.46
2:G:1748:PHE:HE1	2:G:1760:HIS:CD2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2003:GLN:HA	2:G:2006:ILE:HG22	1.98	0.46
2:G:3197:LEU:HD23	2:G:3197:LEU:C	2.39	0.46
2:G:3420:ARG:HG3	2:G:3520:ILE:HD11	1.96	0.46
2:G:3858:MET:HE3	2:G:3858:MET:O	2.15	0.46
2:G:4130:ASN:HA	2:G:4133:GLN:HB2	1.96	0.46
2:B:2297:LYS:HE3	2:B:2301:TYR:HE2	1.81	0.46
2:B:2604:GLU:HB2	2:B:2639:MET:HG3	1.98	0.46
2:I:800:PHE:C	2:I:802:PHE:N	2.74	0.46
2:I:1286:MET:HE1	2:I:1553:PHE:HB3	1.97	0.46
2:I:2325:PRO:HG2	2:I:2421:ALA:HB1	1.97	0.46
2:I:3327:LEU:HD21	2:I:3364:ARG:HH12	1.75	0.46
2:A:72:SER:HA	2:A:106:ALA:O	2.16	0.46
2:A:903:LEU:O	2:A:903:LEU:HD12	2.16	0.46
2:A:3427:PRO:HD2	2:A:3581:GLY:HA3	1.97	0.46
2:A:3433:GLU:O	2:A:3437:MET:HG3	2.15	0.46
2:A:4948:GLU:HA	2:A:4951:LYS:CG	2.45	0.46
1:H:31:GLN:HB3	2:G:1299:GLN:OE1	2.15	0.46
1:O:24:VAL:HG12	1:O:103:LEU:HA	1.97	0.46
2:G:710:ASP:N	2:G:710:ASP:OD1	2.47	0.46
2:G:1122:TYR:HE1	2:G:1133:HIS:NE2	2.14	0.46
2:G:1985:THR:C	2:G:1987:SER:H	2.23	0.46
2:G:2031:LEU:HD11	2:G:3657:TYR:HE1	1.79	0.46
2:G:2191:PHE:CA	2:G:2198:MET:HE3	2.41	0.46
2:G:2584:HIS:NE2	2:G:2625:ARG:HD2	2.31	0.46
2:G:2604:GLU:HB2	2:G:2639:MET:HG3	1.98	0.46
2:G:4077:PHE:CE1	2:G:4097:MET:CE	2.98	0.46
2:B:800:PHE:C	2:B:802:PHE:N	2.74	0.46
2:B:800:PHE:C	2:B:802:PHE:H	2.24	0.46
2:B:903:LEU:O	2:B:903:LEU:HD12	2.16	0.46
2:B:3428:ASN:O	2:B:3432:GLU:HG2	2.16	0.46
2:I:800:PHE:C	2:I:802:PHE:H	2.24	0.46
2:I:815:VAL:HG11	2:I:821:LEU:HB2	1.97	0.46
2:I:2449:GLU:O	2:I:2453:ILE:HG12	2.16	0.46
2:I:2894:LEU:O	2:I:2897:LYS:NZ	2.48	0.46
2:I:2970:SER:O	2:I:2974:ILE:HG23	2.15	0.46
2:I:4753:HIS:CG	2:I:4754:ASN:N	2.84	0.46
2:I:5009:TYR:CZ	2:I:5013:MET:HE2	2.51	0.46
2:A:800:PHE:C	2:A:802:PHE:N	2.74	0.46
2:A:1122:TYR:HE1	2:A:1133:HIS:NE2	2.14	0.46
2:A:1650:ILE:O	2:A:1653:LEU:HB2	2.16	0.46
2:A:2469:ILE:HG22	2:A:2502:MET:SD	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2587:TYR:OH	2:A:2591:ARG:NH2	2.36	0.46
2:A:2963:LEU:HD22	2:A:3006:ILE:HD11	1.97	0.46
2:A:3100:SER:HB3	2:A:3167:ARG:NH1	2.31	0.46
2:A:3147:ILE:CD1	2:A:3156:VAL:HB	2.46	0.46
2:A:4694:ASP:HA	2:A:4700:GLN:HE21	1.79	0.46
2:G:140:ASP:OD1	2:G:140:ASP:N	2.47	0.46
2:G:224:HIS:O	2:G:226:HIS:N	2.49	0.46
2:G:800:PHE:C	2:G:802:PHE:H	2.24	0.46
2:G:1595:LEU:HD12	2:G:1595:LEU:HA	1.79	0.46
2:G:1650:ILE:O	2:G:1653:LEU:HB2	2.16	0.46
2:G:2319:PRO:HD3	2:G:2394:GLY:HA2	1.96	0.46
2:G:3155:ASP:O	2:G:3158:LEU:HD22	2.15	0.46
2:G:3376:GLU:CD	2:G:3450:ASN:HD21	2.24	0.46
2:B:72:SER:HA	2:B:106:ALA:O	2.15	0.46
2:B:345:LEU:HD22	2:B:387:ALA:HB3	1.98	0.46
2:B:880:GLU:HB2	2:B:968:ALA:O	2.16	0.46
2:B:1087:ARG:HB3	2:B:1223:PHE:CD2	2.50	0.46
2:B:2676:ARG:NH1	2:B:2716:ASP:OD1	2.49	0.46
2:B:3155:ASP:O	2:B:3158:LEU:HD22	2.15	0.46
2:B:4753:HIS:CG	2:B:4754:ASN:N	2.84	0.46
2:I:981:GLN:NE2	2:I:1053:ILE:HB	2.30	0.46
2:I:1493:TYR:CB	2:I:1527:MET:HE1	2.46	0.46
2:I:4231:MET:HG3	2:I:4959:PHE:HE2	1.81	0.46
2:A:347:PHE:CE2	2:A:387:ALA:HB2	2.51	0.46
2:A:463:GLU:OE1	2:A:467:LYS:HE2	2.15	0.46
2:A:546:TRP:CE2	2:A:550:LYS:HE2	2.51	0.46
2:A:687:ALA:O	2:A:777:PHE:HA	2.16	0.46
2:A:2584:HIS:NE2	2:A:2625:ARG:HD2	2.31	0.46
2:A:2679:PHE:HB2	2:A:2706:ILE:HG21	1.97	0.46
2:A:4077:PHE:CE1	2:A:4097:MET:CE	2.98	0.46
2:A:4807:PHE:HE1	2:B:4879:MET:CE	2.29	0.46
2:G:546:TRP:CE2	2:G:550:LYS:HE2	2.51	0.46
2:G:2297:LYS:HE3	2:G:2301:TYR:HE2	1.81	0.46
2:G:2595:LEU:HD22	2:G:2599:GLN:CG	2.46	0.46
2:G:3147:ILE:CD1	2:G:3156:VAL:HB	2.46	0.46
2:G:4182:GLU:O	2:G:4988:TYR:OH	2.33	0.46
2:B:20:VAL:HG12	2:B:204:PRO:HA	1.97	0.46
2:B:1115:LEU:HD13	2:B:1193:SER:HB2	1.98	0.46
2:B:1286:MET:HE1	2:B:1553:PHE:HB3	1.97	0.46
2:B:1650:ILE:O	2:B:1653:LEU:HB2	2.16	0.46
2:B:2735:PHE:CE1	2:B:2737:PRO:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2904:LEU:HD23	2:B:2904:LEU:H	1.80	0.46
2:B:3100:SER:HB3	2:B:3167:ARG:NH1	2.31	0.46
2:B:3376:GLU:CD	2:B:3450:ASN:HD21	2.24	0.46
2:B:3992:PHE:HB3	2:B:3996:PHE:CE2	2.51	0.46
2:I:880:GLU:HB2	2:I:968:ALA:O	2.16	0.46
2:I:884:LEU:HB2	2:I:969:PRO:HD3	1.97	0.46
2:I:1039:LEU:N	2:I:1039:LEU:HD23	2.31	0.46
2:I:1943:LEU:HD13	2:I:2101:MET:HE3	1.86	0.46
2:I:2003:GLN:HA	2:I:2006:ILE:HG22	1.98	0.46
2:I:2469:ILE:HG22	2:I:2502:MET:SD	2.55	0.46
2:I:2595:LEU:HD22	2:I:2599:GLN:CG	2.46	0.46
2:I:2604:GLU:HB2	2:I:2639:MET:HG3	1.98	0.46
2:A:20:VAL:HG12	2:A:204:PRO:HA	1.97	0.45
2:A:183:SER:O	2:A:189:LEU:HA	2.14	0.45
2:A:981:GLN:NE2	2:A:1053:ILE:HB	2.30	0.45
2:A:1286:MET:HE1	2:A:1553:PHE:HB3	1.97	0.45
2:A:1972:ASN:OD1	2:A:1973:GLN:N	2.50	0.45
2:A:2319:PRO:HD3	2:A:2394:GLY:HA2	1.96	0.45
2:A:2595:LEU:HD22	2:A:2599:GLN:CG	2.46	0.45
2:A:2604:GLU:HB2	2:A:2639:MET:HG3	1.98	0.45
2:A:2974:ILE:HG13	2:A:2975:ALA:N	2.32	0.45
2:A:3197:LEU:HD23	2:A:3197:LEU:C	2.39	0.45
2:A:3204:ALA:HB2	2:A:3305:THR:HG22	1.98	0.45
2:A:3537:LYS:NZ	2:A:3603:LEU:HB2	2.31	0.45
2:A:3846:ALA:HB1	2:A:3873:LYS:HG3	1.98	0.45
2:A:3858:MET:O	2:A:3858:MET:HE3	2.16	0.45
2:A:3984:ARG:HH22	2:B:161:GLU:HA	1.80	0.45
2:A:4044:MET:O	2:A:4047:MET:HB3	2.16	0.45
1:O:44:LYS:HB3	1:O:44:LYS:HE3	1.63	0.45
2:G:880:GLU:HB2	2:G:968:ALA:O	2.16	0.45
2:G:1037:ASP:O	2:G:1041:GLN:HG2	2.15	0.45
2:G:2166:LEU:HD11	2:G:2206:THR:HG23	1.98	0.45
2:G:2458:ARG:HD3	2:G:2509:VAL:HG12	1.98	0.45
2:G:2567:PRO:HA	2:G:2613:TYR:CG	2.51	0.45
2:G:2970:SER:O	2:G:2974:ILE:HG23	2.15	0.45
2:G:3416:VAL:CG2	2:G:3517:MET:HE2	2.45	0.45
2:G:4753:HIS:CG	2:G:4754:ASN:N	2.84	0.45
2:B:576:ASN:ND2	2:B:2169:GLN:OE1	2.49	0.45
2:B:981:GLN:NE2	2:B:1053:ILE:HB	2.30	0.45
2:B:1859:VAL:HA	2:B:1862:ILE:HD12	1.98	0.45
2:B:2595:LEU:HD22	2:B:2599:GLN:CG	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3934:TYR:CA	2:B:3999:MET:HE2	2.41	0.45
2:B:4948:GLU:HA	2:B:4951:LYS:CG	2.45	0.45
2:I:1293:LEU:HD11	2:I:1594:ARG:HD3	1.98	0.45
2:I:2959:PHE:CD2	2:I:2963:LEU:HD11	2.49	0.45
2:I:3147:ILE:CD1	2:I:3156:VAL:HB	2.46	0.45
2:A:576:ASN:ND2	2:A:2169:GLN:OE1	2.49	0.45
2:A:1276:THR:O	2:A:1282:SER:OG	2.28	0.45
2:A:2959:PHE:CD2	2:A:2963:LEU:HD11	2.49	0.45
2:A:3634:ALA:HA	2:A:3637:ARG:HD3	1.99	0.45
2:A:3992:PHE:HB3	2:A:3996:PHE:CE2	2.51	0.45
2:A:4007:SER:HB3	2:A:4116:GLU:CD	2.42	0.45
2:G:1972:ASN:OD1	2:G:1973:GLN:N	2.50	0.45
2:G:2237:CYS:O	2:G:2241:ARG:HG3	2.16	0.45
2:G:2676:ARG:NH1	2:G:2716:ASP:OD1	2.49	0.45
2:G:2963:LEU:HD22	2:G:3006:ILE:HD11	1.97	0.45
2:G:4007:SER:HB3	2:G:4116:GLU:CD	2.42	0.45
2:B:69:LEU:HD21	2:B:202:MET:HE1	1.94	0.45
2:B:1000:ARG:HB2	2:B:1021:LEU:HD21	1.98	0.45
2:B:1421:ARG:HE	2:B:1421:ARG:HB2	1.46	0.45
2:B:2132:GLY:O	2:B:2136:ARG:HG3	2.15	0.45
2:B:3147:ILE:CD1	2:B:3156:VAL:HB	2.46	0.45
2:B:3204:ALA:HB2	2:B:3305:THR:HG22	1.98	0.45
2:B:3858:MET:HE3	2:B:3858:MET:O	2.15	0.45
2:I:224:HIS:O	2:I:226:HIS:N	2.49	0.45
2:I:345:LEU:HD22	2:I:387:ALA:HB3	1.98	0.45
2:I:347:PHE:CE2	2:I:387:ALA:HB2	2.51	0.45
2:I:483:MET:HE1	2:I:486:LEU:HD23	1.97	0.45
2:I:903:LEU:O	2:I:903:LEU:HD12	2.16	0.45
2:I:1037:ASP:O	2:I:1041:GLN:HG2	2.15	0.45
2:I:1115:LEU:HD13	2:I:1193:SER:HB2	1.99	0.45
2:I:1972:ASN:OD1	2:I:1973:GLN:N	2.49	0.45
2:I:4104:THR:HG22	2:I:4107:GLU:OE2	2.16	0.45
2:A:1039:LEU:N	2:A:1039:LEU:HD23	2.31	0.45
2:A:2595:LEU:HD21	2:A:2599:GLN:NE2	2.31	0.45
2:A:4967:TYR:HE2	2:A:5030:LYS:HG3	1.80	0.45
1:H:24:VAL:HG12	1:H:103:LEU:HA	1.97	0.45
1:J:31:GLN:NE2	1:J:96:THR:CG2	2.79	0.45
2:G:483:MET:HE1	2:G:486:LEU:HD23	1.97	0.45
2:G:576:ASN:ND2	2:G:2169:GLN:OE1	2.49	0.45
2:G:1153:ILE:HG13	2:G:1160:ILE:HG12	1.99	0.45
2:G:2449:GLU:O	2:G:2453:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2679:PHE:HB2	2:G:2706:ILE:HG21	1.97	0.45
2:G:3204:ALA:HB2	2:G:3305:THR:HG22	1.98	0.45
2:G:4021:LYS:NZ	2:G:4138:ASP:HB2	2.31	0.45
2:G:4967:TYR:HE2	2:G:5030:LYS:HG3	1.80	0.45
2:B:2449:GLU:O	2:B:2453:ILE:HG12	2.16	0.45
2:B:2476:ILE:HG23	2:B:2536:LEU:HD11	1.98	0.45
2:B:4044:MET:O	2:B:4047:MET:HB3	2.16	0.45
2:I:266:ARG:CZ	2:I:330:ASP:HB2	2.46	0.45
2:I:546:TRP:CE2	2:I:550:LYS:HE2	2.51	0.45
2:I:1650:ILE:O	2:I:1653:LEU:HB2	2.16	0.45
2:I:1985:THR:C	2:I:1987:SER:H	2.23	0.45
2:I:3182:TYR:HA	2:I:3185:LYS:HD3	1.99	0.45
2:I:3537:LYS:NZ	2:I:3603:LEU:HB2	2.31	0.45
2:I:3847:PHE:HE2	2:I:3936:TYR:HE2	1.63	0.45
2:I:4007:SER:HB3	2:I:4116:GLU:CD	2.42	0.45
2:A:245:VAL:HG21	2:A:299:LEU:HD23	1.98	0.45
2:A:813:GLU:HG2	2:A:1010:VAL:HG22	1.99	0.45
2:A:2166:LEU:HD11	2:A:2206:THR:HG23	1.98	0.45
2:A:2268:GLN:HG3	2:A:2269:GLY:N	2.30	0.45
2:A:2290:LEU:HD13	2:A:2295:LEU:HD21	1.99	0.45
2:A:3327:LEU:CD1	2:A:3368:ARG:NH2	2.71	0.45
2:G:149:THR:O	2:G:171:LEU:HA	2.16	0.45
2:G:347:PHE:CE2	2:G:387:ALA:HB2	2.51	0.45
2:G:903:LEU:O	2:G:903:LEU:HD12	2.16	0.45
2:G:3187:ARG:HH12	2:G:3267:PRO:CB	2.26	0.45
2:G:3846:ALA:HB1	2:G:3873:LYS:HG3	1.98	0.45
2:G:4189:ARG:HB2	2:G:4189:ARG:CZ	2.46	0.45
2:B:687:ALA:O	2:B:777:PHE:HA	2.17	0.45
2:B:1276:THR:O	2:B:1282:SER:OG	2.28	0.45
2:B:1420:ASN:OD1	2:B:1421:ARG:NE	2.49	0.45
2:B:2567:PRO:HA	2:B:2613:TYR:CG	2.51	0.45
2:B:2595:LEU:HD21	2:B:2599:GLN:NE2	2.31	0.45
2:B:4189:ARG:HB2	2:B:4189:ARG:CZ	2.46	0.45
2:B:5009:TYR:CZ	2:B:5013:MET:HE2	2.51	0.45
2:I:72:SER:HA	2:I:106:ALA:O	2.16	0.45
2:I:293:LEU:HD12	2:I:378:LEU:HD13	1.98	0.45
2:I:710:ASP:N	2:I:710:ASP:OD1	2.47	0.45
2:I:2237:CYS:O	2:I:2241:ARG:HG3	2.16	0.45
2:I:2595:LEU:HD21	2:I:2599:GLN:NE2	2.31	0.45
2:I:3428:ASN:O	2:I:3432:GLU:HG2	2.16	0.45
2:A:2307:LEU:HD11	2:A:2362:GLU:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2894:LEU:CB	2:A:2897:LYS:HZ1	2.29	0.45
2:A:3445:TRP:CH2	2:A:3452:LYS:CG	2.93	0.45
2:G:266:ARG:CZ	2:G:330:ASP:HB2	2.46	0.45
2:G:359:TYR:HB2	2:G:374:LYS:HB3	1.97	0.45
2:G:1115:LEU:HD13	2:G:1193:SER:HB2	1.99	0.45
2:G:1261:ASP:OD1	2:G:1262:GLY:N	2.39	0.45
2:G:2476:ILE:HG23	2:G:2536:LEU:HD11	1.98	0.45
2:G:3111:ARG:HH22	2:G:3175:LEU:HD13	1.82	0.45
2:G:3537:LYS:NZ	2:G:3603:LEU:HB2	2.31	0.45
2:G:4044:MET:O	2:G:4047:MET:HB3	2.16	0.45
2:B:2894:LEU:O	2:B:2897:LYS:NZ	2.48	0.45
2:I:1122:TYR:HE1	2:I:1133:HIS:NE2	2.14	0.45
2:I:1153:ILE:HG13	2:I:1160:ILE:HG12	1.99	0.45
2:I:2470:ILE:HD13	2:I:2502:MET:SD	2.57	0.45
2:I:2567:PRO:HA	2:I:2613:TYR:CG	2.51	0.45
2:I:2735:PHE:CE1	2:I:2737:PRO:HG3	2.51	0.45
2:I:4956:THR:HG23	2:I:4957:LYS:HG3	1.99	0.45
2:I:4967:TYR:HE2	2:I:5030:LYS:HG3	1.80	0.45
1:F:68:LEU:HA	1:F:103:LEU:HD22	1.98	0.45
2:A:293:LEU:HD12	2:A:378:LEU:HD13	1.98	0.45
2:A:800:PHE:C	2:A:802:PHE:H	2.24	0.45
2:A:1000:ARG:HB2	2:A:1021:LEU:HD21	1.98	0.45
2:A:1420:ASN:OD1	2:A:1421:ARG:NE	2.50	0.45
2:A:3547:GLU:O	2:A:3550:ARG:HD3	2.17	0.45
1:O:31:GLN:NE2	1:O:96:THR:CG2	2.79	0.45
1:O:106:LEU:HD23	1:O:106:LEU:HA	1.83	0.45
2:G:797:HIS:CG	2:G:821:LEU:HD23	2.52	0.45
2:G:2290:LEU:HD13	2:G:2295:LEU:HD21	1.99	0.45
2:G:2383:ALA:O	2:G:2386:ILE:HG22	2.17	0.45
2:G:2469:ILE:HG22	2:G:2502:MET:SD	2.55	0.45
2:G:2754:PHE:HA	2:G:2758:PHE:CB	2.44	0.45
2:G:4231:MET:HG3	2:G:4959:PHE:HE2	1.81	0.45
2:G:4865:LYS:HZ1	2:G:4901:ILE:HA	1.82	0.45
2:B:384:MET:HE3	2:B:384:MET:HB3	1.91	0.45
2:B:1943:LEU:HD13	2:B:2101:MET:HE3	1.86	0.45
2:B:2623:LEU:O	2:B:2624:ARG:C	2.60	0.45
2:B:3218:VAL:O	2:B:3222:LYS:HB2	2.16	0.45
2:B:4021:LYS:NZ	2:B:4138:ASP:HB2	2.31	0.45
2:B:4104:THR:HG22	2:B:4107:GLU:OE2	2.16	0.45
2:B:4231:MET:HG3	2:B:4959:PHE:HE2	1.81	0.45
2:I:1421:ARG:HE	2:I:1421:ARG:HB2	1.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1829:PRO:O	2:I:1832:GLY:N	2.44	0.45
2:I:3250:MET:HE2	2:I:3250:MET:HB2	1.90	0.45
2:A:345:LEU:HD22	2:A:387:ALA:HB3	1.98	0.45
2:A:1115:LEU:HD13	2:A:1193:SER:HB2	1.99	0.45
2:A:1480:GLN:CD	2:A:1480:GLN:N	2.75	0.45
2:A:2031:LEU:HD11	2:A:3657:TYR:HE1	1.79	0.45
2:A:2377:LEU:O	2:A:2381:GLU:HG2	2.17	0.45
2:A:2470:ILE:HD13	2:A:2502:MET:SD	2.57	0.45
2:A:2894:LEU:CA	2:A:2897:LYS:HZ1	2.23	0.45
2:A:4021:LYS:NZ	2:A:4138:ASP:HB2	2.31	0.45
2:A:4214:LYS:O	2:A:4218:ILE:HG12	2.17	0.45
2:A:4865:LYS:HZ1	2:A:4901:ILE:HA	1.82	0.45
1:H:31:GLN:HA	1:H:98:ILE:HD13	1.96	0.45
1:J:23:VAL:HG12	1:J:45:PRO:HB3	1.99	0.45
2:G:3110:LEU:HD13	2:G:3175:LEU:HD11	1.99	0.45
2:G:3201:MET:HE3	2:G:3205:PHE:CD1	2.44	0.45
2:G:3634:ALA:HA	2:G:3637:ARG:HD3	1.99	0.45
2:G:4104:THR:HG22	2:G:4107:GLU:OE2	2.16	0.45
2:G:4672:LYS:HB2	2:G:4672:LYS:HE2	1.63	0.45
2:B:227:MET:CE	2:B:389:PHE:HD2	2.14	0.45
2:B:347:PHE:CE2	2:B:387:ALA:HB2	2.51	0.45
2:B:1029:GLU:N	2:B:1029:GLU:OE2	2.50	0.45
2:B:1122:TYR:HE1	2:B:1133:HIS:NE2	2.14	0.45
2:B:1153:ILE:HG13	2:B:1160:ILE:HG12	1.99	0.45
2:B:2470:ILE:HD13	2:B:2502:MET:SD	2.57	0.45
2:B:2792:ARG:NH1	2:B:2801:ASP:OD2	2.50	0.45
2:B:2825:LYS:HD2	2:B:2933:ASN:O	2.17	0.45
1:F:84:ALA:O	1:F:93:PRO:HB3	2.17	0.45
2:A:183:SER:O	2:A:183:SER:OG	2.28	0.45
2:A:869:ARG:HE	2:A:869:ARG:HB3	1.54	0.45
2:A:884:LEU:HB2	2:A:969:PRO:HD3	1.97	0.45
2:A:2003:GLN:HA	2:A:2006:ILE:HG22	1.98	0.45
2:A:2644:LEU:O	2:A:2648:TYR:HD2	2.00	0.45
2:A:3428:ASN:O	2:A:3432:GLU:HG2	2.16	0.45
2:A:4104:THR:HG22	2:A:4107:GLU:OE2	2.16	0.45
2:A:4182:GLU:O	2:A:4988:TYR:OH	2.33	0.45
2:A:4189:ARG:HB2	2:A:4189:ARG:CZ	2.46	0.45
1:H:85:THR:CG2	1:H:86:GLY:N	2.78	0.45
1:O:84:ALA:O	1:O:93:PRO:HB3	2.17	0.45
2:G:575:LEU:HD22	2:G:609:CYS:HB2	1.99	0.45
2:G:826:ILE:HG22	2:G:827:LYS:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2325:PRO:HG2	2:G:2421:ALA:HB1	1.97	0.45
2:G:2595:LEU:HD21	2:G:2599:GLN:NE2	2.31	0.45
2:G:3182:TYR:HA	2:G:3185:LYS:HD3	1.99	0.45
2:G:5009:TYR:CZ	2:G:5013:MET:HE2	2.51	0.45
2:B:149:THR:O	2:B:171:LEU:HA	2.16	0.45
2:B:974:HIS:HB2	2:B:976:ARG:HH22	1.80	0.45
2:B:2191:PHE:CA	2:B:2198:MET:HE3	2.41	0.45
2:B:2742:THR:OG1	2:B:2814:LYS:HB3	2.17	0.45
2:B:3198:ALA:HB3	2:B:3279:SER:HB3	1.99	0.45
2:I:974:HIS:HB2	2:I:976:ARG:HH22	1.80	0.45
2:I:1480:GLN:CD	2:I:1480:GLN:N	2.75	0.45
2:I:1748:PHE:HE1	2:I:1760:HIS:CD2	2.32	0.45
2:I:1859:VAL:HA	2:I:1862:ILE:HD12	1.98	0.45
2:I:2261:SER:OG	2:I:2273:LEU:HB2	2.17	0.45
2:I:2297:LYS:HE3	2:I:2301:TYR:HE2	1.81	0.45
2:I:2555:CYS:CB	2:I:2599:GLN:HG3	2.47	0.45
2:I:2742:THR:OG1	2:I:2814:LYS:HB3	2.17	0.45
2:I:3110:LEU:HD13	2:I:3175:LEU:HD11	1.99	0.45
2:I:3198:ALA:HB3	2:I:3279:SER:HB3	1.99	0.45
2:I:3327:LEU:CD1	2:I:3368:ARG:NH2	2.71	0.45
2:I:3334:TRP:HZ3	2:I:3338:LEU:HD23	1.82	0.45
2:I:3427:PRO:HD2	2:I:3581:GLY:HA3	1.98	0.45
2:I:3547:GLU:O	2:I:3550:ARG:HD3	2.17	0.45
2:I:4214:LYS:O	2:I:4218:ILE:HG12	2.17	0.45
2:A:27:THR:OG1	2:A:32:GLN:OE1	2.35	0.45
2:A:266:ARG:CZ	2:A:330:ASP:HB2	2.46	0.45
2:A:575:LEU:HD22	2:A:609:CYS:HB2	1.99	0.45
2:A:651:GLY:N	2:A:658:GLN:OE1	2.46	0.45
2:A:1013:ILE:HB	2:A:1014:PRO:HD3	1.99	0.45
2:A:1153:ILE:HG13	2:A:1160:ILE:HG12	1.99	0.45
2:A:1595:LEU:HD12	2:A:1595:LEU:HA	1.78	0.45
2:A:2449:GLU:O	2:A:2453:ILE:HG12	2.16	0.45
2:A:2458:ARG:HD3	2:A:2509:VAL:HG12	1.98	0.45
2:A:2485:LEU:HD23	2:A:2541:PHE:CZ	2.52	0.45
2:A:3182:TYR:HA	2:A:3185:LYS:HD3	1.99	0.45
1:H:31:GLN:NE2	1:H:96:THR:CG2	2.79	0.45
1:J:84:ALA:O	1:J:93:PRO:HB3	2.17	0.45
2:G:345:LEU:HD22	2:G:387:ALA:HB3	1.98	0.45
2:G:1293:LEU:HD11	2:G:1594:ARG:HD3	1.97	0.45
2:G:1493:TYR:CB	2:G:1527:MET:HE1	2.46	0.45
2:G:2462:PRO:HD2	2:G:2465:ASP:OD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2623:LEU:O	2:G:2624:ARG:C	2.60	0.45
2:G:2973:PHE:CE2	2:G:2995:ILE:HG22	2.52	0.45
2:G:3459:VAL:HG21	2:G:3503:TYR:CD2	2.52	0.45
2:G:3547:GLU:O	2:G:3550:ARG:HD3	2.17	0.45
2:B:266:ARG:CZ	2:B:330:ASP:HB2	2.46	0.45
2:B:813:GLU:HG2	2:B:1010:VAL:HG22	1.99	0.45
2:B:1293:LEU:HD11	2:B:1594:ARG:HD3	1.98	0.45
2:B:2003:GLN:HA	2:B:2006:ILE:HG22	1.98	0.45
2:B:2290:LEU:HD13	2:B:2295:LEU:HD21	1.99	0.45
2:B:2377:LEU:O	2:B:2381:GLU:HG2	2.17	0.45
2:B:2644:LEU:O	2:B:2648:TYR:HD2	2.00	0.45
2:B:3042:LEU:O	2:B:3046:LEU:HG	2.17	0.45
2:B:3068:LEU:CG	2:B:3139:VAL:HG21	2.33	0.45
2:B:3459:VAL:HG21	2:B:3503:TYR:CD2	2.52	0.45
2:B:4214:LYS:O	2:B:4218:ILE:HG12	2.17	0.45
2:B:4966:ASP:OD1	2:B:4967:TYR:N	2.50	0.45
2:I:576:ASN:ND2	2:I:2169:GLN:OE1	2.49	0.45
2:I:2098:VAL:HG22	2:I:2101:MET:HE1	1.88	0.45
2:I:2383:ALA:O	2:I:2386:ILE:HG22	2.17	0.45
2:I:3144:PHE:O	2:I:3147:ILE:HG22	2.17	0.45
2:I:3204:ALA:HB2	2:I:3305:THR:HG22	1.99	0.45
2:I:3368:ARG:NH2	2:I:3404:ASP:OD2	2.46	0.45
2:I:3550:ARG:O	2:I:3554:GLN:OE1	2.35	0.45
2:I:3858:MET:O	2:I:3858:MET:HE3	2.15	0.45
2:I:4044:MET:O	2:I:4047:MET:HB3	2.16	0.45
2:A:1029:GLU:N	2:A:1029:GLU:OE2	2.50	0.45
2:A:2325:PRO:HG2	2:A:2421:ALA:HB1	1.97	0.45
2:A:2567:PRO:HA	2:A:2613:TYR:CG	2.51	0.45
2:A:2973:PHE:CE2	2:A:2995:ILE:HG22	2.52	0.45
2:A:3110:LEU:HD13	2:A:3175:LEU:HD11	1.99	0.45
2:A:3459:VAL:HG21	2:A:3503:TYR:CD2	2.52	0.45
2:G:293:LEU:HD12	2:G:378:LEU:HD13	1.98	0.45
2:G:2261:SER:OG	2:G:2273:LEU:HB2	2.17	0.45
2:G:2377:LEU:O	2:G:2381:GLU:HG2	2.17	0.45
2:G:2470:ILE:HD13	2:G:2502:MET:SD	2.57	0.45
2:G:2825:LYS:HD2	2:G:2933:ASN:O	2.17	0.45
2:G:3036:LYS:NZ	2:G:3076:ASP:OD1	2.33	0.45
2:G:3150:HIS:CB	2:G:3152:PHE:CE1	2.97	0.45
2:G:3363:GLY:O	2:G:3367:LYS:HG3	2.17	0.45
2:G:4137:ARG:NH1	2:G:4199:GLU:OE2	2.47	0.45
2:B:293:LEU:HD12	2:B:378:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1286:MET:HE3	2:B:1286:MET:HB3	1.80	0.45
2:B:1480:GLN:CD	2:B:1480:GLN:N	2.75	0.45
2:B:3846:ALA:HB1	2:B:3873:LYS:HG3	1.98	0.45
2:B:4007:SER:HB3	2:B:4116:GLU:CD	2.42	0.45
2:B:4868:ASP:OD1	2:B:4868:ASP:N	2.50	0.45
2:B:4967:TYR:HE2	2:B:5030:LYS:HG3	1.80	0.45
2:I:149:THR:O	2:I:171:LEU:HA	2.16	0.45
2:I:1000:ARG:HB2	2:I:1021:LEU:HD21	1.98	0.45
2:I:2431:ASP:O	2:I:2435:ARG:HG2	2.17	0.45
2:I:4189:ARG:HB2	2:I:4189:ARG:CZ	2.46	0.45
2:I:4636:THR:CG2	2:I:4639:MET:HE3	2.47	0.45
2:A:1293:LEU:HD11	2:A:1594:ARG:HD3	1.98	0.44
2:A:2742:THR:OG1	2:A:2814:LYS:HB3	2.17	0.44
2:A:3139:VAL:HA	2:A:3142:THR:HG22	2.00	0.44
1:J:68:LEU:HA	1:J:103:LEU:HD22	1.98	0.44
1:O:23:VAL:HG12	1:O:45:PRO:HB3	1.98	0.44
2:G:2339:VAL:HG21	2:G:2436:CYS:SG	2.57	0.44
2:G:2676:ARG:HE	2:G:2676:ARG:HB2	1.56	0.44
2:G:2792:ARG:NH1	2:G:2801:ASP:OD2	2.50	0.44
2:G:3428:ASN:O	2:G:3432:GLU:HG2	2.16	0.44
2:B:27:THR:OG1	2:B:32:GLN:OE1	2.35	0.44
2:B:2166:LEU:HD11	2:B:2206:THR:HG23	1.98	0.44
2:B:2555:CYS:CB	2:B:2599:GLN:HG3	2.47	0.44
2:B:3110:LEU:HD13	2:B:3175:LEU:HD11	1.99	0.44
2:I:245:VAL:HG21	2:I:299:LEU:HD23	1.98	0.44
2:I:842:PRO:O	2:I:1197:GLY:N	2.32	0.44
2:I:1013:ILE:HB	2:I:1014:PRO:HD3	1.99	0.44
2:I:2290:LEU:HD13	2:I:2295:LEU:HD21	1.99	0.44
2:I:2792:ARG:NH1	2:I:2801:ASP:OD2	2.50	0.44
2:I:3363:GLY:O	2:I:3367:LYS:HG3	2.17	0.44
2:I:3376:GLU:CD	2:I:3450:ASN:HD21	2.24	0.44
2:I:4021:LYS:NZ	2:I:4138:ASP:HB2	2.31	0.44
2:A:244:LEU:HD23	2:A:244:LEU:HA	1.85	0.44
2:A:797:HIS:CG	2:A:821:LEU:HD23	2.52	0.44
2:A:1859:VAL:HA	2:A:1862:ILE:HD12	1.98	0.44
2:A:2638:LYS:HZ2	2:A:2698:MET:HG3	1.81	0.44
2:A:3334:TRP:HZ3	2:A:3338:LEU:HD23	1.82	0.44
2:A:3550:ARG:O	2:A:3554:GLN:OE1	2.35	0.44
2:A:4636:THR:CG2	2:A:4639:MET:HE3	2.47	0.44
2:G:245:VAL:HG21	2:G:299:LEU:HD23	1.99	0.44
2:G:813:GLU:HG2	2:G:1010:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1000:ARG:HB2	2:G:1021:LEU:HD21	1.98	0.44
2:G:1013:ILE:HB	2:G:1014:PRO:HD3	1.99	0.44
2:G:1029:GLU:OE2	2:G:1029:GLU:N	2.50	0.44
2:G:2133:GLU:OE1	2:G:2136:ARG:NH2	2.51	0.44
2:G:2587:TYR:O	2:G:2590:SER:OG	2.33	0.44
2:G:3395:ARG:HH22	2:G:3398:PHE:HD2	1.65	0.44
2:G:3545:THR:O	2:G:3548:GLU:HG3	2.16	0.44
2:G:3955:MET:HE1	2:G:4016:LEU:CD1	2.48	0.44
2:G:4956:THR:HG23	2:G:4957:LYS:HG3	1.99	0.44
2:B:1972:ASN:OD1	2:B:1973:GLN:N	2.50	0.44
2:B:2098:VAL:HG22	2:B:2101:MET:HE1	1.88	0.44
2:B:2261:SER:OG	2:B:2273:LEU:HB2	2.17	0.44
2:I:384:MET:HE3	2:I:384:MET:HB3	1.91	0.44
2:I:945:LYS:HB2	2:I:948:ASP:OD1	2.17	0.44
2:I:2166:LEU:HD11	2:I:2206:THR:HG23	1.98	0.44
2:I:2268:GLN:HG3	2:I:2269:GLY:N	2.30	0.44
2:I:2362:GLU:O	2:I:2369:ARG:NH1	2.51	0.44
2:I:2377:LEU:O	2:I:2381:GLU:HG2	2.17	0.44
2:I:2476:ILE:HG23	2:I:2536:LEU:HD11	1.98	0.44
2:I:3545:THR:O	2:I:3548:GLU:HG3	2.16	0.44
2:I:4979:THR:HG23	3:I:5301:ATP:C4	2.52	0.44
1:F:23:VAL:HG12	1:F:45:PRO:HB3	1.99	0.44
2:A:2339:VAL:HG23	2:A:2350:ALA:HA	1.99	0.44
2:A:2555:CYS:CB	2:A:2599:GLN:HG3	2.47	0.44
2:A:3042:LEU:O	2:A:3046:LEU:HG	2.17	0.44
2:A:3376:GLU:CD	2:A:3450:ASN:HD21	2.24	0.44
2:A:3395:ARG:HH22	2:A:3398:PHE:HD2	1.65	0.44
1:H:84:ALA:O	1:H:93:PRO:HB3	2.17	0.44
1:J:7:ILE:HG23	2:I:719:LEU:HD11	1.99	0.44
2:G:161:GLU:HA	2:I:3984:ARG:HH22	1.83	0.44
2:G:687:ALA:O	2:G:777:PHE:HA	2.17	0.44
2:G:800:PHE:C	2:G:802:PHE:N	2.74	0.44
2:G:2339:VAL:HG23	2:G:2350:ALA:HA	1.99	0.44
2:G:2431:ASP:O	2:G:2435:ARG:HG2	2.17	0.44
2:G:2555:CYS:CB	2:G:2599:GLN:HG3	2.47	0.44
2:G:3427:PRO:HD2	2:G:3581:GLY:HA3	1.97	0.44
2:B:245:VAL:HG21	2:B:299:LEU:HD23	1.98	0.44
2:B:1039:LEU:N	2:B:1039:LEU:HD23	2.31	0.44
2:B:1423:ASP:OD1	2:B:1425:GLU:OE2	2.36	0.44
2:B:2485:LEU:HD23	2:B:2541:PHE:CZ	2.52	0.44
2:B:3363:GLY:O	2:B:3367:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3545:THR:O	2:B:3548:GLU:HG3	2.16	0.44
2:B:4636:THR:CG2	2:B:4639:MET:HE3	2.47	0.44
2:I:3846:ALA:HB1	2:I:3873:LYS:HG3	1.98	0.44
2:I:4680:LYS:HE2	2:I:4680:LYS:HB2	1.66	0.44
2:I:4731:ILE:HB	2:I:4732:PHE:CD2	2.53	0.44
2:A:699:GLY:HA3	2:A:705:ASN:ND2	2.32	0.44
2:A:2383:ALA:O	2:A:2386:ILE:HG22	2.17	0.44
2:A:2825:LYS:HD2	2:A:2933:ASN:O	2.17	0.44
2:A:3111:ARG:HH22	2:A:3175:LEU:HD13	1.82	0.44
2:A:3144:PHE:O	2:A:3147:ILE:HG22	2.18	0.44
2:A:3230:LEU:CB	2:A:3232:LEU:HD11	2.47	0.44
2:A:3330:ASP:OD1	2:A:3331:GLU:N	2.50	0.44
2:A:3545:THR:O	2:A:3548:GLU:HG3	2.16	0.44
2:A:4877:ASP:O	2:G:4582:VAL:HG12	2.17	0.44
2:A:4956:THR:HG23	2:A:4957:LYS:HG3	1.99	0.44
1:H:23:VAL:HG12	1:H:45:PRO:HB3	1.99	0.44
2:G:863:LEU:CD2	2:G:868:GLU:HB3	2.47	0.44
2:G:1480:GLN:CD	2:G:1480:GLN:N	2.75	0.44
2:G:2362:GLU:O	2:G:2369:ARG:NH1	2.50	0.44
2:G:3369:ALA:HA	2:G:3372:VAL:HG12	2.00	0.44
2:G:4731:ILE:HB	2:G:4732:PHE:CD2	2.53	0.44
2:B:863:LEU:CD2	2:B:868:GLU:HB3	2.47	0.44
2:B:2268:GLN:HG3	2:B:2269:GLY:N	2.30	0.44
2:B:2465:ASP:OD1	2:B:2465:ASP:N	2.50	0.44
2:B:2987:GLU:C	2:B:2989:SER:H	2.26	0.44
2:B:3250:MET:HE2	2:B:3250:MET:HB2	1.90	0.44
2:B:3427:PRO:HD2	2:B:3581:GLY:HA3	1.98	0.44
2:B:3547:GLU:O	2:B:3550:ARG:HD3	2.17	0.44
2:B:3634:ALA:HA	2:B:3637:ARG:HD3	1.99	0.44
2:B:4045:VAL:HB	2:B:4159:ARG:NH1	2.32	0.44
2:I:687:ALA:O	2:I:777:PHE:HA	2.17	0.44
2:I:1423:ASP:OD1	2:I:1425:GLU:OE2	2.36	0.44
2:I:1607:ARG:HB2	2:I:1652:GLU:HG2	1.99	0.44
2:I:2133:GLU:OE1	2:I:2136:ARG:NH2	2.51	0.44
2:I:2623:LEU:O	2:I:2624:ARG:C	2.60	0.44
2:I:2973:PHE:CE2	2:I:2995:ILE:HG22	2.52	0.44
2:I:2987:GLU:C	2:I:2989:SER:H	2.26	0.44
2:I:3459:VAL:HG21	2:I:3503:TYR:CD2	2.52	0.44
2:I:3634:ALA:HA	2:I:3637:ARG:HD3	1.99	0.44
1:F:31:GLN:NE2	1:F:96:THR:CG2	2.79	0.44
2:A:140:ASP:N	2:A:140:ASP:OD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2259:GLU:HA	2:A:2297:LYS:HE2	2.00	0.44
2:A:2339:VAL:HG21	2:A:2436:CYS:SG	2.57	0.44
2:G:1445:PRO:HG2	2:G:1501:VAL:HG11	2.00	0.44
2:G:3334:TRP:HZ3	2:G:3338:LEU:HD23	1.82	0.44
2:G:4680:LYS:HE3	2:G:4686:LEU:HD13	2.00	0.44
2:G:4868:ASP:N	2:G:4868:ASP:OD1	2.50	0.44
2:B:182:LEU:HA	2:B:190:GLN:O	2.18	0.44
2:B:945:LYS:HB2	2:B:948:ASP:OD1	2.17	0.44
2:B:1013:ILE:HB	2:B:1014:PRO:HD3	1.99	0.44
2:B:2133:GLU:OE1	2:B:2136:ARG:NH2	2.51	0.44
2:B:2339:VAL:HG21	2:B:2436:CYS:SG	2.57	0.44
2:B:2462:PRO:HD2	2:B:2465:ASP:OD2	2.17	0.44
2:B:2479:LEU:HA	2:B:2541:PHE:HZ	1.83	0.44
2:B:3139:VAL:HA	2:B:3142:THR:HG22	2.00	0.44
2:B:3169:LEU:HA	2:B:3172:ILE:HG22	1.99	0.44
2:B:4090:LYS:HG2	2:B:4123:ILE:HD11	1.99	0.44
2:I:1116:GLY:O	2:I:1134:LEU:N	2.51	0.44
2:I:2009:LEU:HD23	2:I:2022:PRO:HD2	2.00	0.44
2:I:2339:VAL:HG23	2:I:2350:ALA:HA	1.99	0.44
2:I:3111:ARG:HH22	2:I:3175:LEU:HD13	1.82	0.44
2:I:3230:LEU:CB	2:I:3232:LEU:HD11	2.47	0.44
2:I:4680:LYS:HE3	2:I:4686:LEU:HD13	2.00	0.44
2:A:299:LEU:HD12	2:A:299:LEU:HA	1.81	0.44
2:A:384:MET:HE3	2:A:384:MET:HB3	1.91	0.44
2:A:863:LEU:CD2	2:A:868:GLU:HB3	2.47	0.44
2:A:1737:PRO:HD3	2:A:1771:LEU:CD1	2.48	0.44
2:A:2462:PRO:HD2	2:A:2465:ASP:OD2	2.17	0.44
2:A:2479:LEU:HA	2:A:2541:PHE:HZ	1.83	0.44
2:A:3150:HIS:CB	2:A:3152:PHE:CE1	2.97	0.44
2:A:3398:PHE:CD1	2:A:3451:PHE:HD1	2.36	0.44
2:A:4231:MET:HG3	2:A:4959:PHE:HE2	1.81	0.44
2:A:4680:LYS:HE3	2:A:4686:LEU:HD13	2.00	0.44
2:G:27:THR:OG1	2:G:32:GLN:OE1	2.35	0.44
2:G:875:ALA:HB1	2:G:922:LEU:HA	2.00	0.44
2:G:1737:PRO:HD3	2:G:1771:LEU:CD1	2.48	0.44
2:G:2479:LEU:HA	2:G:2541:PHE:HZ	1.83	0.44
2:G:2644:LEU:O	2:G:2648:TYR:HD2	2.00	0.44
2:G:3139:VAL:HA	2:G:3142:THR:HG22	2.00	0.44
2:G:4214:LYS:O	2:G:4218:ILE:HG12	2.17	0.44
2:B:575:LEU:HD22	2:B:609:CYS:HB2	1.99	0.44
2:B:1116:GLY:O	2:B:1134:LEU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2383:ALA:O	2:B:2386:ILE:HG22	2.17	0.44
2:B:2619:LEU:HD23	2:B:2623:LEU:HG	2.00	0.44
2:B:2973:PHE:CE2	2:B:2995:ILE:HG22	2.52	0.44
2:B:2974:ILE:HG13	2:B:2975:ALA:N	2.32	0.44
2:I:863:LEU:CD2	2:I:868:GLU:HB3	2.47	0.44
2:I:1029:GLU:N	2:I:1029:GLU:OE2	2.50	0.44
2:I:1420:ASN:OD1	2:I:1421:ARG:NE	2.49	0.44
2:I:2462:PRO:HD2	2:I:2465:ASP:OD2	2.17	0.44
2:I:2566:ALA:HA	2:I:2569:PHE:CD1	2.39	0.44
2:I:3369:ALA:HA	2:I:3372:VAL:HG12	2.00	0.44
2:I:4763:GLY:O	2:I:4766:THR:OG1	2.29	0.44
2:A:182:LEU:HA	2:A:190:GLN:O	2.18	0.44
2:A:1423:ASP:OD1	2:A:1425:GLU:OE2	2.36	0.44
2:A:2178:MET:HG3	2:A:2228:MET:SD	2.58	0.44
2:A:2185:ILE:CD1	2:A:2203:MET:HE1	2.32	0.44
2:A:2327:GLY:HA2	2:A:2330:ARG:HE	1.83	0.44
2:A:2345:SER:OG	2:A:2508:ARG:NH2	2.51	0.44
2:A:2431:ASP:O	2:A:2435:ARG:HG2	2.17	0.44
2:A:3169:LEU:HA	2:A:3172:ILE:HG22	1.99	0.44
2:A:4807:PHE:CE1	2:B:4879:MET:CE	3.01	0.44
2:G:183:SER:O	2:G:183:SER:OG	2.28	0.44
2:G:699:GLY:HA3	2:G:705:ASN:ND2	2.32	0.44
2:G:1607:ARG:HB2	2:G:1652:GLU:HG2	1.99	0.44
2:G:2499:LYS:HG2	2:G:2553:TYR:HH	1.74	0.44
2:B:2362:GLU:O	2:B:2369:ARG:NH1	2.51	0.44
2:B:2500:ALA:HA	2:B:2553:TYR:CE1	2.53	0.44
2:B:3284:TRP:CZ3	2:B:3287:ARG:HD2	2.53	0.44
2:B:3850:GLN:HB2	2:B:3873:LYS:HZ1	1.83	0.44
2:B:3955:MET:HE1	2:B:4016:LEU:CD1	2.48	0.44
2:I:699:GLY:HA3	2:I:705:ASN:ND2	2.32	0.44
2:I:2562:ILE:CG2	2:I:2582:MET:HE1	2.48	0.44
2:I:2676:ARG:HE	2:I:2676:ARG:HB2	1.56	0.44
2:I:2790:MET:HE2	2:I:2790:MET:HB2	1.88	0.44
2:I:3284:TRP:CZ3	2:I:3287:ARG:HD2	2.53	0.44
2:A:149:THR:O	2:A:171:LEU:HA	2.16	0.44
2:A:875:ALA:HB1	2:A:922:LEU:HA	2.00	0.44
2:A:3145:GLN:NE2	2:A:3149:GLN:OE1	2.51	0.44
2:A:3363:GLY:O	2:A:3367:LYS:HG3	2.17	0.44
2:A:3955:MET:HE1	2:A:4016:LEU:CD1	2.48	0.44
2:A:4979:THR:HG23	3:A:5301:ATP:C4	2.52	0.44
1:J:68:LEU:HD11	1:J:105:ASN:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:68:LEU:HA	1:O:103:LEU:HD22	1.99	0.44
2:G:1859:VAL:HA	2:G:1862:ILE:HD12	1.98	0.44
2:G:2485:LEU:HD23	2:G:2541:PHE:CZ	2.52	0.44
2:G:2647:HIS:O	2:G:2651:CYS:N	2.51	0.44
2:G:3169:LEU:HA	2:G:3172:ILE:HG22	1.99	0.44
2:G:3284:TRP:CZ3	2:G:3287:ARG:HD2	2.53	0.44
2:G:3330:ASP:OD1	2:G:3331:GLU:N	2.50	0.44
2:G:3409:TYR:O	2:G:3412:LEU:N	2.51	0.44
2:G:4636:THR:CG2	2:G:4639:MET:HE3	2.47	0.44
2:B:2345:SER:OG	2:B:2508:ARG:NH2	2.51	0.44
2:B:3144:PHE:O	2:B:3147:ILE:HG22	2.18	0.44
2:B:3550:ARG:O	2:B:3554:GLN:OE1	2.35	0.44
2:B:4731:ILE:HB	2:B:4732:PHE:CD2	2.53	0.44
2:I:1228:ILE:HG22	2:I:1827:ARG:NH1	2.27	0.44
2:I:2485:LEU:HD23	2:I:2541:PHE:CZ	2.52	0.44
2:I:2619:LEU:HD23	2:I:2623:LEU:HG	2.00	0.44
2:I:2672:LEU:HD22	2:I:2710:LEU:HD23	2.00	0.44
2:I:2825:LYS:HD2	2:I:2933:ASN:O	2.17	0.44
2:I:3409:TYR:O	2:I:3412:LEU:N	2.51	0.44
2:I:4045:VAL:HB	2:I:4159:ARG:NH1	2.32	0.44
2:A:657:THR:HG22	2:A:1001:VAL:HG21	2.00	0.44
2:A:1445:PRO:HG2	2:A:1501:VAL:HG11	2.00	0.44
2:A:2792:ARG:NH1	2:A:2801:ASP:OD2	2.50	0.44
2:A:2804:ILE:HA	2:A:2807:TRP:CZ3	2.53	0.44
2:A:3198:ALA:HB3	2:A:3279:SER:HB3	1.99	0.44
2:A:3284:TRP:CZ3	2:A:3287:ARG:HD2	2.53	0.44
2:G:81:MET:HE2	2:G:81:MET:HB3	1.77	0.44
2:G:182:LEU:HA	2:G:190:GLN:O	2.18	0.44
2:G:945:LYS:HB2	2:G:948:ASP:OD1	2.17	0.44
2:G:979:PRO:O	2:G:983:THR:HG23	2.18	0.44
2:G:2327:GLY:HA2	2:G:2330:ARG:HE	1.83	0.44
2:G:2785:LEU:HB3	2:G:2787:THR:HG22	2.00	0.44
2:G:3042:LEU:O	2:G:3046:LEU:HG	2.18	0.44
2:G:3550:ARG:O	2:G:3554:GLN:OE1	2.35	0.44
2:G:4839:MET:CB	2:I:4823:LEU:HD11	2.38	0.44
2:G:4865:LYS:NZ	2:G:4901:ILE:HA	2.33	0.44
2:G:4979:THR:HG23	3:G:5301:ATP:C4	2.52	0.44
2:B:869:ARG:NH1	2:B:870:ILE:HB	2.33	0.44
2:B:2672:LEU:HD22	2:B:2710:LEU:HD23	2.00	0.44
2:B:3182:TYR:HA	2:B:3185:LYS:HD3	1.99	0.44
2:B:3965:LEU:O	2:B:3969:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:613:ALA:HB2	2:I:1676:LEU:HB2	2.00	0.44
2:I:797:HIS:CG	2:I:821:LEU:HD23	2.52	0.44
2:I:2500:ALA:HA	2:I:2553:TYR:CE1	2.53	0.44
2:A:945:LYS:HB2	2:A:948:ASP:OD1	2.17	0.43
2:A:1170:MET:SD	2:A:1176:GLU:OE2	2.76	0.43
2:A:2135:LEU:CD1	2:A:3658:LYS:HG3	2.48	0.43
2:A:2302:LEU:HD21	2:A:2332:LEU:HD11	2.00	0.43
2:A:2465:ASP:N	2:A:2465:ASP:OD1	2.50	0.43
2:A:2785:LEU:HB3	2:A:2787:THR:HG22	2.00	0.43
2:A:3965:LEU:O	2:A:3969:ILE:HG12	2.18	0.43
2:A:4731:ILE:HB	2:A:4732:PHE:CD2	2.53	0.43
2:G:13:PHE:O	2:G:15:ARG:NH1	2.52	0.43
2:G:2696:TYR:CD2	2:G:3001:ILE:CD1	3.01	0.43
2:G:2974:ILE:HG13	2:G:2975:ALA:N	2.32	0.43
2:G:3145:GLN:NE2	2:G:3149:GLN:OE1	2.51	0.43
2:G:3456:GLN:O	2:G:3459:VAL:HG22	2.17	0.43
2:B:293:LEU:HD12	2:B:378:LEU:CD1	2.48	0.43
2:B:1737:PRO:HD3	2:B:1771:LEU:CD1	2.48	0.43
2:B:2804:ILE:HA	2:B:2807:TRP:CZ3	2.53	0.43
2:B:3145:GLN:NE2	2:B:3149:GLN:OE1	2.51	0.43
2:B:3334:TRP:HZ3	2:B:3338:LEU:HD23	1.82	0.43
2:B:4677:LEU:HD23	2:B:4711:PHE:CZ	2.53	0.43
2:B:4688:ILE:HG21	2:B:4728:HIS:HB3	2.00	0.43
2:I:875:ALA:HB1	2:I:922:LEU:HA	2.00	0.43
2:I:1445:PRO:HG2	2:I:1501:VAL:HG11	2.00	0.43
2:I:1737:PRO:HD3	2:I:1771:LEU:CD1	2.48	0.43
2:I:3965:LEU:O	2:I:3969:ILE:HG12	2.18	0.43
2:I:4966:ASP:OD1	2:I:4967:TYR:N	2.50	0.43
1:F:106:LEU:HD23	1:F:106:LEU:HA	1.83	0.43
2:A:293:LEU:HD12	2:A:378:LEU:CD1	2.49	0.43
2:A:3003:LEU:HB2	2:A:3004:PRO:HD3	2.01	0.43
1:H:68:LEU:HA	1:H:103:LEU:HD22	1.99	0.43
1:H:68:LEU:HD11	1:H:105:ASN:HA	1.99	0.43
1:O:68:LEU:HD11	1:O:105:ASN:HA	1.99	0.43
2:G:293:LEU:HD12	2:G:378:LEU:CD1	2.49	0.43
2:G:1420:ASN:OD1	2:G:1421:ARG:NE	2.49	0.43
2:G:1433:TYR:CD2	2:G:1578:ALA:HB2	2.53	0.43
2:G:2466:LEU:O	2:G:2470:ILE:HG12	2.19	0.43
2:G:2500:ALA:HA	2:G:2553:TYR:CE1	2.53	0.43
2:G:2749:GLU:O	2:G:2752:ASP:HB2	2.18	0.43
2:G:3198:ALA:HB3	2:G:3279:SER:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:613:ALA:HB2	2:B:1676:LEU:HB2	2.00	0.43
2:B:699:GLY:HA3	2:B:705:ASN:ND2	2.32	0.43
2:B:2178:MET:HG3	2:B:2228:MET:SD	2.58	0.43
2:B:2339:VAL:HG23	2:B:2350:ALA:HA	1.99	0.43
2:B:2431:ASP:O	2:B:2435:ARG:HG2	2.17	0.43
2:B:3078:ARG:HB2	2:B:3152:PHE:HD2	1.84	0.43
2:B:3111:ARG:HH22	2:B:3175:LEU:HD13	1.82	0.43
2:B:3194:LEU:HD13	2:B:3272:ILE:HG23	1.99	0.43
2:B:3398:PHE:CD1	2:B:3451:PHE:HD1	2.36	0.43
2:B:4979:THR:HG23	3:B:5301:ATP:C4	2.53	0.43
2:I:182:LEU:HA	2:I:190:GLN:O	2.18	0.43
2:I:379:HIS:CD2	2:I:380:GLN:N	2.87	0.43
2:I:575:LEU:HD22	2:I:609:CYS:HB2	1.99	0.43
2:I:869:ARG:NH1	2:I:870:ILE:HB	2.33	0.43
2:I:979:PRO:O	2:I:983:THR:HG23	2.18	0.43
2:I:2339:VAL:HG21	2:I:2436:CYS:SG	2.57	0.43
2:I:2749:GLU:O	2:I:2752:ASP:HB2	2.18	0.43
2:I:2974:ILE:HG13	2:I:2975:ALA:N	2.32	0.43
2:I:3003:LEU:HB2	2:I:3004:PRO:HD3	2.00	0.43
2:I:3139:VAL:HA	2:I:3142:THR:HG22	2.00	0.43
2:I:3169:LEU:HA	2:I:3172:ILE:HG22	1.99	0.43
2:I:4688:ILE:HG21	2:I:4728:HIS:HB3	2.00	0.43
2:I:4868:ASP:OD1	2:I:4868:ASP:N	2.50	0.43
2:A:979:PRO:O	2:A:983:THR:HG23	2.18	0.43
2:A:2466:LEU:O	2:A:2470:ILE:HG12	2.18	0.43
2:A:3002:LEU:O	2:A:3006:ILE:HG12	2.19	0.43
2:A:3544:ASP:HB2	2:A:3548:GLU:OE2	2.19	0.43
2:A:3550:ARG:C	2:A:3554:GLN:OE1	2.62	0.43
2:A:4865:LYS:NZ	2:A:4901:ILE:HA	2.33	0.43
2:G:475:GLN:HB2	2:G:533:ASN:HD21	1.83	0.43
2:G:1116:GLY:O	2:G:1134:LEU:N	2.51	0.43
2:G:2135:LEU:CD1	2:G:3658:LYS:HG3	2.49	0.43
2:G:2259:GLU:HA	2:G:2297:LYS:HE2	2.00	0.43
2:G:3194:LEU:HD13	2:G:3272:ILE:HG23	1.99	0.43
2:B:875:ALA:HB1	2:B:922:LEU:HA	2.00	0.43
2:B:2327:GLY:HA2	2:B:2330:ARG:HE	1.83	0.43
2:B:2696:TYR:CD2	2:B:3001:ILE:CD1	3.01	0.43
2:B:3036:LYS:NZ	2:B:3076:ASP:OD1	2.33	0.43
2:B:3346:VAL:C	2:B:3348:ARG:H	2.26	0.43
2:B:4680:LYS:HE3	2:B:4686:LEU:HD13	2.00	0.43
2:B:4865:LYS:NZ	2:B:4901:ILE:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4956:THR:HG23	2:B:4957:LYS:HG3	1.99	0.43
2:I:213:TYR:CE1	2:I:337:PRO:HB2	2.54	0.43
2:I:293:LEU:HD12	2:I:378:LEU:CD1	2.48	0.43
2:I:813:GLU:HG2	2:I:1010:VAL:HG22	1.99	0.43
2:I:3042:LEU:O	2:I:3046:LEU:HG	2.17	0.43
2:I:3346:VAL:C	2:I:3348:ARG:H	2.26	0.43
2:I:3456:GLN:O	2:I:3459:VAL:HG22	2.17	0.43
2:I:4090:LYS:HG2	2:I:4123:ILE:HD11	1.99	0.43
2:I:4677:LEU:HD23	2:I:4711:PHE:CZ	2.53	0.43
2:I:4865:LYS:NZ	2:I:4901:ILE:HA	2.33	0.43
2:A:76:ARG:O	2:A:79:GLN:N	2.52	0.43
2:A:379:HIS:CD2	2:A:380:GLN:N	2.87	0.43
2:A:2133:GLU:OE1	2:A:2136:ARG:NH2	2.51	0.43
2:A:4090:LYS:HG2	2:A:4123:ILE:HD11	1.99	0.43
2:G:76:ARG:O	2:G:79:GLN:N	2.52	0.43
2:G:220:LEU:HD12	2:G:390:LEU:HB3	2.01	0.43
2:G:1297:PHE:CE2	2:G:1525:GLY:HA2	2.54	0.43
2:G:2178:MET:HG3	2:G:2228:MET:SD	2.58	0.43
2:G:2255:SER:O	2:G:2259:GLU:HG3	2.19	0.43
2:G:2742:THR:OG1	2:G:2814:LYS:HB3	2.17	0.43
2:G:3144:PHE:O	2:G:3147:ILE:HG22	2.18	0.43
2:G:3414:ARG:NH1	2:G:3469:PHE:O	2.52	0.43
2:G:4568:PHE:CD1	2:G:4568:PHE:C	2.96	0.43
2:G:4680:LYS:HE2	2:G:4680:LYS:HB2	1.66	0.43
2:B:426:ARG:HG3	2:B:430:PRO:O	2.19	0.43
2:B:710:ASP:OD1	2:B:710:ASP:N	2.47	0.43
2:B:1607:ARG:HB2	2:B:1652:GLU:HG2	1.99	0.43
2:B:2009:LEU:HD23	2:B:2022:PRO:HD2	2.00	0.43
2:B:3456:GLN:O	2:B:3459:VAL:HG22	2.17	0.43
2:B:3544:ASP:HB2	2:B:3548:GLU:OE2	2.19	0.43
2:B:4640:GLU:HB3	2:B:4641:PRO:HD3	2.00	0.43
2:B:4798:MET:HE2	2:B:4798:MET:HA	2.00	0.43
2:I:1096:THR:O	2:I:1100:MET:HE2	2.19	0.43
2:I:1994:ARG:HE	2:I:1994:ARG:N	2.16	0.43
2:I:2255:SER:O	2:I:2259:GLU:HG3	2.19	0.43
2:I:2655:TYR:HA	2:I:2667:THR:OG1	2.19	0.43
2:I:2680:TRP:HH2	2:I:2959:PHE:HA	1.83	0.43
2:I:4209:GLN:NE2	2:I:4560:TYR:CE1	2.87	0.43
1:F:68:LEU:HD11	1:F:105:ASN:HA	1.99	0.43
2:A:13:PHE:O	2:A:15:ARG:NH1	2.51	0.43
2:A:2261:SER:OG	2:A:2273:LEU:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2790:MET:HE2	2:A:2790:MET:HB2	1.88	0.43
2:A:3078:ARG:HB2	2:A:3152:PHE:HD2	1.84	0.43
2:A:3186:LEU:C	2:A:3188:PRO:HD2	2.43	0.43
2:A:3369:ALA:HA	2:A:3372:VAL:HG12	2.00	0.43
2:A:3634:ALA:O	2:A:3638:MET:HG2	2.19	0.43
2:A:4568:PHE:C	2:A:4568:PHE:CD1	2.96	0.43
1:H:106:LEU:HD23	1:H:106:LEU:HA	1.83	0.43
2:G:69:LEU:HD21	2:G:202:MET:HE1	1.94	0.43
2:G:1994:ARG:HE	2:G:1994:ARG:N	2.16	0.43
2:G:2186:MET:O	2:G:2192:TYR:OH	2.22	0.43
2:G:3003:LEU:HB2	2:G:3004:PRO:HD3	2.00	0.43
2:G:3398:PHE:CD1	2:G:3451:PHE:HD1	2.36	0.43
2:B:213:TYR:CE1	2:B:337:PRO:HB2	2.54	0.43
2:B:1170:MET:SD	2:B:1176:GLU:OE2	2.77	0.43
2:B:1994:ARG:HE	2:B:1994:ARG:N	2.16	0.43
2:B:2680:TRP:HH2	2:B:2959:PHE:HA	1.84	0.43
2:B:2700:MET:HB2	2:B:2700:MET:HE3	1.81	0.43
2:B:3550:ARG:C	2:B:3554:GLN:OE1	2.62	0.43
2:I:2479:LEU:HA	2:I:2541:PHE:HZ	1.83	0.43
2:I:3145:GLN:NE2	2:I:3149:GLN:OE1	2.51	0.43
2:I:3836:MET:CE	2:I:3885:PHE:CZ	2.87	0.43
2:I:4568:PHE:C	2:I:4568:PHE:CD1	2.96	0.43
2:A:213:TYR:CE1	2:A:337:PRO:HB2	2.54	0.43
2:A:652:ARG:NH2	2:A:750:LEU:O	2.52	0.43
2:A:1297:PHE:CE2	2:A:1525:GLY:HA2	2.54	0.43
2:A:1421:ARG:HE	2:A:1421:ARG:HB2	1.46	0.43
2:A:2556:LEU:HD23	2:A:2556:LEU:HA	1.87	0.43
2:A:3194:LEU:HD13	2:A:3272:ILE:HG23	1.99	0.43
2:A:3414:ARG:NH1	2:A:3469:PHE:O	2.52	0.43
2:A:3456:GLN:O	2:A:3459:VAL:HG22	2.17	0.43
2:G:379:HIS:CD2	2:G:380:GLN:N	2.87	0.43
2:G:1423:ASP:OD1	2:G:1425:GLU:OE2	2.36	0.43
2:G:2302:LEU:HD21	2:G:2332:LEU:HD11	2.00	0.43
2:G:2562:ILE:CG2	2:G:2582:MET:HE1	2.48	0.43
2:G:2655:TYR:HA	2:G:2667:THR:OG1	2.19	0.43
2:G:2680:TRP:HH2	2:G:2959:PHE:HA	1.84	0.43
2:G:4640:GLU:HB3	2:G:4641:PRO:HD3	2.00	0.43
2:G:4798:MET:HE2	2:G:4798:MET:HA	2.00	0.43
2:B:797:HIS:CG	2:B:821:LEU:HD23	2.52	0.43
2:B:1228:ILE:HG22	2:B:1827:ARG:NH1	2.27	0.43
2:B:1445:PRO:HG2	2:B:1501:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3002:LEU:O	2:B:3006:ILE:HG12	2.19	0.43
2:B:3230:LEU:CB	2:B:3232:LEU:HD11	2.47	0.43
2:B:3395:ARG:HH22	2:B:3398:PHE:HD2	1.65	0.43
2:I:1433:TYR:CD2	2:I:1578:ALA:HB2	2.53	0.43
2:I:2277:ALA:HB1	2:I:2337:PHE:HD2	1.84	0.43
2:I:2466:LEU:O	2:I:2470:ILE:HG12	2.18	0.43
2:I:2499:LYS:HA	2:I:2502:MET:HE3	2.00	0.43
2:I:2696:TYR:CD2	2:I:3001:ILE:CD1	3.01	0.43
2:I:3078:ARG:HB2	2:I:3152:PHE:HD2	1.84	0.43
2:I:3395:ARG:HH22	2:I:3398:PHE:HD2	1.65	0.43
2:I:3634:ALA:O	2:I:3638:MET:HG2	2.19	0.43
2:I:3955:MET:HE1	2:I:4016:LEU:CD1	2.48	0.43
2:A:869:ARG:NH1	2:A:870:ILE:HB	2.33	0.43
2:A:1607:ARG:HB2	2:A:1652:GLU:HG2	1.99	0.43
2:A:2098:VAL:HG22	2:A:2101:MET:HE1	1.88	0.43
2:A:2283:ASN:ND2	2:A:2286:LEU:HD12	2.28	0.43
2:A:2619:LEU:HD23	2:A:2623:LEU:HG	2.00	0.43
2:A:2623:LEU:O	2:A:2624:ARG:C	2.60	0.43
2:A:4209:GLN:NE2	2:A:4560:TYR:CE1	2.87	0.43
2:G:1170:MET:SD	2:G:1176:GLU:OE2	2.76	0.43
2:G:2277:ALA:HB1	2:G:2337:PHE:HD2	1.84	0.43
2:G:2762:THR:HB	2:G:2805:TYR:HE2	1.84	0.43
2:G:2987:GLU:C	2:G:2989:SER:H	2.26	0.43
2:G:3186:LEU:C	2:G:3188:PRO:HD2	2.43	0.43
2:G:3346:VAL:C	2:G:3348:ARG:H	2.26	0.43
2:G:3544:ASP:HB2	2:G:3548:GLU:OE2	2.19	0.43
2:G:3705:PHE:CB	2:G:3778:MET:SD	3.07	0.43
2:G:4012:LEU:HD12	2:G:4012:LEU:HA	1.84	0.43
2:G:4677:LEU:HD23	2:G:4711:PHE:CZ	2.53	0.43
2:B:76:ARG:O	2:B:79:GLN:N	2.52	0.43
2:B:2302:LEU:HD21	2:B:2332:LEU:HD11	2.00	0.43
2:B:3369:ALA:HA	2:B:3372:VAL:HG12	2.00	0.43
2:B:3414:ARG:NH1	2:B:3469:PHE:O	2.52	0.43
2:B:3705:PHE:CB	2:B:3778:MET:SD	3.07	0.43
2:B:4209:GLN:NE2	2:B:4560:TYR:CE1	2.87	0.43
2:I:220:LEU:HD12	2:I:390:LEU:HB3	2.01	0.43
2:I:2259:GLU:HA	2:I:2297:LYS:HE2	2.00	0.43
2:I:2806:ARG:NH2	2:I:2809:ILE:HG22	2.34	0.43
2:I:2862:LEU:HD21	2:I:2931:GLN:HE21	1.83	0.43
2:A:220:LEU:HD12	2:A:390:LEU:HB3	2.01	0.43
2:A:475:GLN:HB2	2:A:533:ASN:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1116:GLY:O	2:A:1134:LEU:N	2.51	0.43
2:A:2500:ALA:HA	2:A:2553:TYR:CE1	2.53	0.43
2:A:3014:CYS:SG	2:A:3015:LEU:N	2.92	0.43
2:A:4072:VAL:HG21	2:A:4129:ALA:HB2	2.00	0.43
2:A:4677:LEU:HD23	2:A:4711:PHE:CZ	2.53	0.43
2:A:4747:SER:HA	2:A:4750:ILE:HB	2.01	0.43
2:A:4798:MET:HE2	2:A:4798:MET:HA	2.00	0.43
2:G:213:TYR:CE1	2:G:337:PRO:HB2	2.53	0.43
2:G:426:ARG:HG3	2:G:430:PRO:O	2.19	0.43
2:G:2547:ALA:O	2:G:2551:ASN:OD1	2.37	0.43
2:G:3550:ARG:C	2:G:3554:GLN:OE1	2.62	0.43
2:G:4966:ASP:OD1	2:G:4967:TYR:N	2.50	0.43
2:B:379:HIS:CD2	2:B:380:GLN:N	2.86	0.43
2:B:752:VAL:O	2:B:753:PRO:C	2.40	0.43
2:B:2369:ARG:HA	2:B:2369:ARG:HE	1.84	0.43
2:B:2499:LYS:HA	2:B:2502:MET:HE3	2.00	0.43
2:B:2566:ALA:C	2:B:2569:PHE:CD1	2.95	0.43
2:B:2967:MET:O	2:B:2970:SER:OG	2.29	0.43
2:I:76:ARG:O	2:I:79:GLN:N	2.52	0.43
2:I:700:GLU:H	2:I:705:ASN:HD21	1.67	0.43
2:I:870:ILE:HD12	2:I:870:ILE:HA	1.88	0.43
2:I:2178:MET:HG3	2:I:2228:MET:SD	2.58	0.43
2:I:2302:LEU:HD21	2:I:2332:LEU:HD11	2.00	0.43
2:I:2644:LEU:O	2:I:2648:TYR:HD2	2.00	0.43
2:I:3194:LEU:HD13	2:I:3272:ILE:HG23	1.99	0.43
2:I:4747:SER:HA	2:I:4750:ILE:HB	2.01	0.43
1:F:57:LYS:O	1:F:61:GLU:OE1	2.37	0.43
2:A:555:GLU:HG2	2:A:556:ALA:N	2.34	0.43
2:A:861:ILE:CG2	2:A:933:LEU:CD1	2.97	0.43
2:A:2009:LEU:HD23	2:A:2022:PRO:HD2	2.00	0.43
2:A:2647:HIS:O	2:A:2651:CYS:N	2.51	0.43
2:A:3346:VAL:C	2:A:3348:ARG:H	2.26	0.43
2:G:657:THR:HG22	2:G:1001:VAL:HG21	2.00	0.43
2:G:2566:ALA:HA	2:G:2569:PHE:CD1	2.39	0.43
2:G:3965:LEU:O	2:G:3969:ILE:HG12	2.18	0.43
2:G:4569:LEU:HD11	2:G:4649:LEU:HD23	2.01	0.43
2:G:4688:ILE:HG21	2:G:4728:HIS:HB3	2.00	0.43
2:B:220:LEU:HD12	2:B:390:LEU:HB3	2.01	0.43
2:B:299:LEU:HD12	2:B:299:LEU:HA	1.81	0.43
2:B:555:GLU:HG2	2:B:556:ALA:N	2.34	0.43
2:B:2135:LEU:CD1	2:B:3658:LYS:HG3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2488:PRO:HB2	2:B:2490:MET:HE2	2.01	0.43
2:B:2547:ALA:O	2:B:2551:ASN:OD1	2.37	0.43
2:B:3140:LEU:HD12	2:B:3140:LEU:HA	1.81	0.43
2:B:4568:PHE:CD1	2:B:4568:PHE:C	2.96	0.43
2:B:4791:TYR:CE1	2:B:4818:MET:HE1	2.28	0.43
2:I:27:THR:OG1	2:I:32:GLN:OE1	2.35	0.43
2:I:3002:LEU:O	2:I:3006:ILE:HG12	2.19	0.43
2:I:4072:VAL:HG21	2:I:4129:ALA:HB2	2.00	0.43
2:A:1283:LEU:HD12	2:A:1283:LEU:HA	1.93	0.43
2:A:2362:GLU:O	2:A:2369:ARG:NH1	2.51	0.43
2:A:2440:MET:HB3	2:A:2444:GLN:HE22	1.84	0.43
2:A:2696:TYR:CD2	2:A:3001:ILE:CD1	3.01	0.43
2:A:2749:GLU:O	2:A:2752:ASP:HB2	2.19	0.43
2:A:4045:VAL:HB	2:A:4159:ARG:NH1	2.32	0.43
2:A:4753:HIS:CG	2:A:4754:ASN:H	2.37	0.43
1:H:57:LYS:O	1:H:61:GLU:OE1	2.37	0.43
2:G:555:GLU:HG2	2:G:556:ALA:N	2.34	0.43
2:G:2009:LEU:HD23	2:G:2022:PRO:HD2	2.00	0.43
2:G:2804:ILE:HA	2:G:2807:TRP:CZ3	2.53	0.43
2:G:3850:GLN:HB2	2:G:3873:LYS:HZ1	1.83	0.43
2:G:4061:PHE:HZ	2:G:4132:PHE:CD1	2.37	0.43
2:B:1433:TYR:CD2	2:B:1578:ALA:HB2	2.53	0.43
2:B:2290:LEU:HD11	2:B:2338:ALA:HB1	2.01	0.43
2:B:2587:TYR:O	2:B:2590:SER:OG	2.33	0.43
2:B:2749:GLU:O	2:B:2752:ASP:HB2	2.18	0.43
2:B:3219:TYR:HE1	2:B:3232:LEU:HD22	1.84	0.43
2:I:555:GLU:HG2	2:I:556:ALA:N	2.34	0.43
2:I:861:ILE:CG2	2:I:933:LEU:CD1	2.97	0.43
2:I:2135:LEU:CD1	2:I:3658:LYS:HG3	2.49	0.43
2:I:2655:TYR:CE1	2:I:2675:THR:HG21	2.54	0.43
2:I:2754:PHE:HA	2:I:2758:PHE:CB	2.44	0.43
2:I:3186:LEU:C	2:I:3188:PRO:HD2	2.43	0.43
2:I:3330:ASP:OD1	2:I:3331:GLU:N	2.50	0.43
2:I:3398:PHE:CD1	2:I:3451:PHE:HD1	2.36	0.43
2:I:3417:ASP:OD1	2:I:3418:ASN:N	2.52	0.43
2:I:4798:MET:HE2	2:I:4798:MET:HA	2.00	0.43
2:A:1994:ARG:HE	2:A:1994:ARG:N	2.16	0.42
2:A:2255:SER:O	2:A:2259:GLU:HG3	2.19	0.42
2:A:2369:ARG:HA	2:A:2369:ARG:HE	1.84	0.42
2:A:2696:TYR:CD2	2:A:3001:ILE:CG1	3.02	0.42
2:A:3417:ASP:OD1	2:A:3418:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4061:PHE:HZ	2:A:4132:PHE:CD1	2.37	0.42
2:A:4914:VAL:HG11	2:G:4884:LEU:HD11	2.00	0.42
1:O:7:ILE:HD11	1:O:73:LYS:HB2	2.01	0.42
2:G:652:ARG:NH2	2:G:750:LEU:O	2.52	0.42
2:G:900:ASN:O	2:G:901:LYS:HE2	2.19	0.42
2:G:2655:TYR:CE1	2:G:2675:THR:HG21	2.54	0.42
2:G:2672:LEU:HD22	2:G:2710:LEU:HD23	2.00	0.42
2:G:3078:ARG:HB2	2:G:3152:PHE:HD2	1.84	0.42
2:G:3230:LEU:CB	2:G:3232:LEU:HD11	2.47	0.42
2:G:4045:VAL:HB	2:G:4159:ARG:NH1	2.32	0.42
2:B:700:GLU:H	2:B:705:ASN:HD21	1.66	0.42
2:B:861:ILE:CG2	2:B:933:LEU:CD1	2.97	0.42
2:B:979:PRO:O	2:B:983:THR:HG23	2.18	0.42
2:B:2259:GLU:HA	2:B:2297:LYS:HE2	2.00	0.42
2:B:2862:LEU:HD21	2:B:2931:GLN:HE21	1.83	0.42
2:B:2950:SER:O	2:B:2953:LYS:HG2	2.19	0.42
2:B:3417:ASP:OD1	2:B:3418:ASN:N	2.52	0.42
2:B:3984:ARG:HE	2:B:3984:ARG:HB2	1.53	0.42
2:B:4072:VAL:HG21	2:B:4129:ALA:HB2	2.00	0.42
2:I:227:MET:CE	2:I:389:PHE:HD2	2.14	0.42
2:I:426:ARG:HG3	2:I:430:PRO:O	2.19	0.42
2:I:1170:MET:SD	2:I:1176:GLU:OE2	2.76	0.42
2:I:2785:LEU:HB3	2:I:2787:THR:HG22	2.00	0.42
2:I:2804:ILE:HA	2:I:2807:TRP:CZ3	2.53	0.42
2:A:426:ARG:HG3	2:A:430:PRO:O	2.19	0.42
2:A:2987:GLU:C	2:A:2989:SER:H	2.26	0.42
2:A:3695:PRO:HB3	2:A:3699:HIS:CD2	2.54	0.42
1:H:7:ILE:HD11	1:H:73:LYS:HB2	2.01	0.42
2:G:2619:LEU:HD23	2:G:2623:LEU:HG	2.00	0.42
2:G:3002:LEU:O	2:G:3006:ILE:HG12	2.19	0.42
2:G:3400:VAL:HG22	2:G:3403:ARG:HH11	1.84	0.42
2:G:3634:ALA:O	2:G:3638:MET:HG2	2.19	0.42
2:G:4072:VAL:HG21	2:G:4129:ALA:HB2	2.00	0.42
2:G:4209:GLN:NE2	2:G:4560:TYR:CE1	2.87	0.42
2:B:2377:LEU:HD12	2:B:2468:GLY:HA3	2.01	0.42
2:B:2466:LEU:O	2:B:2470:ILE:HG12	2.18	0.42
2:B:2655:TYR:HA	2:B:2667:THR:OG1	2.19	0.42
2:B:2792:ARG:HH12	2:B:2796:THR:C	2.27	0.42
2:B:3003:LEU:HB2	2:B:3004:PRO:HD3	2.01	0.42
2:B:3695:PRO:HB3	2:B:3699:HIS:CD2	2.54	0.42
2:B:3980:LEU:HA	2:B:3980:LEU:HD23	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4763:GLY:O	2:B:4766:THR:OG1	2.29	0.42
2:I:299:LEU:HD12	2:I:299:LEU:HA	1.81	0.42
2:I:2649:GLU:HG3	2:I:2705:ALA:HB2	2.01	0.42
2:I:3705:PHE:CB	2:I:3778:MET:SD	3.07	0.42
2:A:1096:THR:O	2:A:1100:MET:HE2	2.19	0.42
2:A:1637:MET:HE3	2:A:1693:GLN:HB3	2.02	0.42
2:A:2290:LEU:HD11	2:A:2338:ALA:HB1	2.01	0.42
2:A:2488:PRO:HB2	2:A:2490:MET:HE2	2.01	0.42
2:A:2547:ALA:O	2:A:2551:ASN:OD1	2.37	0.42
2:A:2649:GLU:HG3	2:A:2705:ALA:HB2	2.01	0.42
2:A:2694:GLU:HA	2:A:2697:ARG:HB3	2.00	0.42
2:A:4721:LYS:NZ	2:A:4741:LEU:O	2.44	0.42
2:G:1096:THR:O	2:G:1100:MET:HE2	2.19	0.42
2:G:2750:LYS:NZ	2:G:2824:GLU:OE1	2.37	0.42
2:G:2862:LEU:HD21	2:G:2931:GLN:HE21	1.83	0.42
2:G:3078:ARG:HG3	2:G:3155:ASP:OD2	2.20	0.42
2:G:3695:PRO:HB3	2:G:3699:HIS:CD2	2.54	0.42
2:G:3793:MET:HE3	2:G:3793:MET:HB3	1.77	0.42
2:G:4090:LYS:HG2	2:G:4123:ILE:HD11	1.99	0.42
2:B:475:GLN:CB	2:B:533:ASN:HD21	2.33	0.42
2:B:2255:SER:O	2:B:2259:GLU:HG3	2.19	0.42
2:B:2297:LYS:HE3	2:B:2301:TYR:CE2	2.55	0.42
2:B:2440:MET:HB3	2:B:2444:GLN:HE22	1.84	0.42
2:B:2647:HIS:O	2:B:2651:CYS:N	2.51	0.42
2:B:2785:LEU:HB3	2:B:2787:THR:HG22	2.00	0.42
2:B:3186:LEU:C	2:B:3188:PRO:HD2	2.43	0.42
2:B:3235:SER:HB3	2:B:3238:GLU:CD	2.45	0.42
2:B:4049:VAL:O	2:B:4052:SER:OG	2.24	0.42
2:B:4569:LEU:HD11	2:B:4649:LEU:HD23	2.01	0.42
2:B:4753:HIS:CG	2:B:4754:ASN:H	2.37	0.42
2:I:13:PHE:O	2:I:15:ARG:NH1	2.52	0.42
2:I:475:GLN:HB2	2:I:533:ASN:HD21	1.83	0.42
2:I:494:LEU:HD23	2:I:494:LEU:HA	1.79	0.42
2:I:900:ASN:O	2:I:901:LYS:HE2	2.19	0.42
2:I:1927:LEU:HD23	2:I:1927:LEU:HA	1.87	0.42
2:I:2377:LEU:HD12	2:I:2468:GLY:HA3	2.01	0.42
2:I:2696:TYR:O	2:I:2700:MET:HG3	2.19	0.42
2:I:3219:TYR:HE1	2:I:3232:LEU:HD22	1.84	0.42
2:A:177:GLU:HB3	2:G:2359:ARG:HH12	1.85	0.42
2:A:2093:SER:OG	2:A:2095:GLN:OE1	2.38	0.42
2:A:2297:LYS:HE3	2:A:2301:TYR:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2655:TYR:HA	2:A:2667:THR:OG1	2.19	0.42
2:A:2696:TYR:O	2:A:2700:MET:HG3	2.19	0.42
2:A:2700:MET:HB2	2:A:2700:MET:HE3	1.81	0.42
2:A:4640:GLU:HB3	2:A:4641:PRO:HD3	2.00	0.42
2:A:4966:ASP:OD1	2:A:4967:TYR:N	2.50	0.42
2:G:842:PRO:O	2:G:1197:GLY:N	2.32	0.42
2:G:1561:VAL:HG12	2:G:1562:ILE:HG23	2.01	0.42
2:G:2291:GLN:O	2:G:2294:ASP:N	2.48	0.42
2:G:2440:MET:HB3	2:G:2444:GLN:HE22	1.84	0.42
2:G:2551:ASN:HB3	2:G:2599:GLN:NE2	2.26	0.42
2:G:2649:GLU:HG3	2:G:2705:ALA:HB2	2.01	0.42
2:G:3235:SER:HB3	2:G:3238:GLU:CD	2.45	0.42
2:G:3570:ARG:HE	2:G:3570:ARG:HB3	1.74	0.42
2:G:4753:HIS:CG	2:G:4754:ASN:H	2.37	0.42
2:B:1228:ILE:HD12	2:B:1228:ILE:HA	1.77	0.42
2:B:2093:SER:OG	2:B:2095:GLN:OE1	2.38	0.42
2:B:2655:TYR:CE1	2:B:2675:THR:HG21	2.54	0.42
2:B:2806:ARG:NH2	2:B:2809:ILE:HG22	2.34	0.42
2:B:2964:LEU:HD21	2:B:3042:LEU:CD1	2.38	0.42
2:B:3330:ASP:OD1	2:B:3331:GLU:N	2.50	0.42
2:B:4572:ALA:O	2:B:4576:ILE:HG12	2.20	0.42
2:B:4747:SER:HA	2:B:4750:ILE:HB	2.00	0.42
2:I:475:GLN:CB	2:I:533:ASN:HD21	2.33	0.42
2:I:1087:ARG:NH2	2:I:1221:GLU:O	2.53	0.42
2:I:1637:MET:HE3	2:I:1693:GLN:HB3	2.02	0.42
2:I:2290:LEU:HD11	2:I:2338:ALA:HB1	2.01	0.42
2:I:2345:SER:OG	2:I:2508:ARG:NH2	2.51	0.42
2:I:2433:LEU:HD23	2:I:2433:LEU:HA	1.89	0.42
2:I:2967:MET:O	2:I:2970:SER:OG	2.30	0.42
2:I:3544:ASP:HB2	2:I:3548:GLU:OE2	2.19	0.42
2:I:4640:GLU:HB3	2:I:4641:PRO:HD3	2.00	0.42
2:A:700:GLU:H	2:A:705:ASN:HD21	1.66	0.42
2:A:1433:TYR:CD2	2:A:1578:ALA:HB2	2.53	0.42
2:A:2362:GLU:C	2:A:2369:ARG:NH1	2.78	0.42
2:A:2485:LEU:CD2	2:A:2541:PHE:CZ	3.03	0.42
2:A:2792:ARG:HH12	2:A:2796:THR:C	2.28	0.42
2:A:2871:LEU:HD23	2:A:2874:MET:SD	2.60	0.42
2:A:3219:TYR:HE1	2:A:3232:LEU:HD22	1.84	0.42
2:A:4114:CYS:O	2:A:4131:ARG:NH2	2.52	0.42
2:A:4868:ASP:OD1	2:A:4868:ASP:N	2.50	0.42
1:H:7:ILE:HG23	2:G:719:LEU:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:861:ILE:CG2	2:G:933:LEU:CD1	2.97	0.42
2:G:869:ARG:NH1	2:G:870:ILE:HB	2.33	0.42
2:G:927:GLU:HA	2:G:930:LYS:HD3	2.01	0.42
2:G:2696:TYR:O	2:G:2700:MET:HG3	2.19	0.42
2:B:900:ASN:O	2:B:901:LYS:HE2	2.19	0.42
2:B:946:ALA:HB2	2:B:1048:GLY:O	2.20	0.42
2:B:2485:LEU:CD2	2:B:2541:PHE:CZ	3.03	0.42
2:B:2540:THR:OG1	2:B:2541:PHE:HD2	2.03	0.42
2:B:3111:ARG:HH12	2:B:3174:SER:C	2.26	0.42
2:B:4061:PHE:HZ	2:B:4132:PHE:CD1	2.37	0.42
2:B:4711:PHE:HB3	2:B:4712:PRO:HD3	2.02	0.42
2:I:1595:LEU:HD12	2:I:1595:LEU:HA	1.78	0.42
2:I:2950:SER:O	2:I:2953:LYS:HG2	2.20	0.42
2:I:3203:VAL:HG13	2:I:3205:PHE:N	2.35	0.42
2:I:3414:ARG:NH1	2:I:3469:PHE:O	2.52	0.42
2:I:3723:MET:HE2	2:I:3793:MET:SD	2.60	0.42
2:I:4061:PHE:HZ	2:I:4132:PHE:CD1	2.37	0.42
2:I:4722:ARG:NE	2:I:4748:LEU:HD11	2.35	0.42
2:A:1105:ALA:HB2	2:A:1191:VAL:HG11	2.01	0.42
2:A:1277:TRP:HB3	2:A:1559:GLN:HB3	2.01	0.42
2:A:2672:LEU:HD22	2:A:2710:LEU:HD23	2.00	0.42
2:A:2862:LEU:HD21	2:A:2931:GLN:HE21	1.83	0.42
2:A:3570:ARG:NH1	2:B:1229:ASN:OD1	2.53	0.42
2:A:4688:ILE:HG21	2:A:4728:HIS:HB3	2.00	0.42
2:G:613:ALA:HB2	2:G:1676:LEU:HB2	2.00	0.42
2:G:721:LEU:HD22	2:G:768:PHE:CE2	2.55	0.42
2:G:3014:CYS:SG	2:G:3015:LEU:N	2.92	0.42
2:G:3203:VAL:HG13	2:G:3205:PHE:N	2.35	0.42
2:B:652:ARG:NH2	2:B:750:LEU:O	2.52	0.42
2:B:829:TYR:CE1	2:B:1608:MET:HG2	2.55	0.42
2:B:870:ILE:HD12	2:B:870:ILE:HA	1.88	0.42
2:B:1087:ARG:NH2	2:B:1221:GLU:O	2.53	0.42
2:B:1561:VAL:HG12	2:B:1562:ILE:HG23	2.01	0.42
2:B:2745:VAL:HG21	2:B:2818:ALA:HA	2.01	0.42
2:B:2762:THR:HB	2:B:2805:TYR:HE2	1.84	0.42
2:B:3014:CYS:SG	2:B:3015:LEU:N	2.92	0.42
2:B:3203:VAL:HG13	2:B:3205:PHE:N	2.35	0.42
2:I:829:TYR:CE1	2:I:1608:MET:HG2	2.55	0.42
2:I:1297:PHE:CE2	2:I:1525:GLY:HA2	2.54	0.42
2:I:2362:GLU:C	2:I:2369:ARG:NH1	2.78	0.42
2:I:2465:ASP:N	2:I:2465:ASP:OD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2696:TYR:CD2	2:I:3001:ILE:CG1	3.02	0.42
2:I:3014:CYS:SG	2:I:3015:LEU:N	2.92	0.42
2:I:3400:VAL:HG22	2:I:3403:ARG:HH11	1.84	0.42
2:I:3550:ARG:C	2:I:3554:GLN:OE1	2.62	0.42
2:I:4040:ILE:HG22	2:I:4044:MET:HE2	2.02	0.42
2:I:4634:GLU:HG3	2:I:4639:MET:CG	2.46	0.42
2:A:900:ASN:O	2:A:901:LYS:HE2	2.19	0.42
2:A:900:ASN:HA	2:A:904:HIS:CE1	2.55	0.42
2:A:927:GLU:HA	2:A:930:LYS:HD3	2.01	0.42
2:A:1925:GLY:H	2:A:1928:GLN:HB2	1.85	0.42
2:A:2314:LEU:HD21	2:A:2320:ASP:CG	2.45	0.42
2:A:2377:LEU:HD12	2:A:2468:GLY:HA3	2.01	0.42
2:A:3078:ARG:HG3	2:A:3155:ASP:OD2	2.20	0.42
2:A:3235:SER:HB3	2:A:3238:GLU:CD	2.45	0.42
2:A:3409:TYR:O	2:A:3412:LEU:N	2.51	0.42
2:A:3705:PHE:CB	2:A:3778:MET:SD	3.07	0.42
2:A:4040:ILE:HG22	2:A:4044:MET:HE2	2.02	0.42
2:G:829:TYR:CE1	2:G:1608:MET:HG2	2.55	0.42
2:G:900:ASN:HA	2:G:904:HIS:CE1	2.55	0.42
2:G:1277:TRP:HB3	2:G:1559:GLN:HB3	2.01	0.42
2:G:1637:MET:HE3	2:G:1693:GLN:HB3	2.02	0.42
2:G:2283:ASN:ND2	2:G:2286:LEU:HD12	2.28	0.42
2:G:2696:TYR:CD2	2:G:3001:ILE:CG1	3.02	0.42
2:G:3916:ILE:HD12	2:G:3916:ILE:H	1.85	0.42
2:B:13:PHE:O	2:B:15:ARG:NH1	2.51	0.42
2:B:657:THR:HG22	2:B:1001:VAL:HG21	2.00	0.42
2:B:2332:LEU:HD23	2:B:2429:LEU:CA	2.50	0.42
2:B:2556:LEU:HD23	2:B:2556:LEU:HA	1.87	0.42
2:B:2649:GLU:HG3	2:B:2705:ALA:HB2	2.01	0.42
2:B:2871:LEU:HD23	2:B:2874:MET:SD	2.60	0.42
2:B:3723:MET:HE2	2:B:3793:MET:SD	2.60	0.42
2:B:4948:GLU:C	2:B:4951:LYS:HG2	2.44	0.42
2:I:657:THR:HG22	2:I:1001:VAL:HG21	2.00	0.42
2:I:2297:LYS:HE3	2:I:2301:TYR:CE2	2.55	0.42
2:I:2327:GLY:HA2	2:I:2330:ARG:HE	1.83	0.42
2:I:2440:MET:HB3	2:I:2444:GLN:HE22	1.84	0.42
2:I:2692:ASP:HB3	2:I:2695:LEU:HB3	2.02	0.42
2:I:3166:TYR:OH	2:I:3203:VAL:HG11	2.20	0.42
2:I:4182:GLU:HG2	2:I:4192:ARG:HG2	2.02	0.42
2:I:4948:GLU:C	2:I:4951:LYS:HG2	2.44	0.42
2:A:721:LEU:HD22	2:A:768:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:929:LEU:HD23	2:A:932:LEU:HD12	2.02	0.42
2:A:2277:ALA:HB1	2:A:2337:PHE:HD2	1.84	0.42
2:A:2433:LEU:HD23	2:A:2433:LEU:HA	1.89	0.42
2:A:2655:TYR:CE1	2:A:2675:THR:HG21	2.54	0.42
2:A:4934:GLY:CA	2:G:4937:ILE:HD12	2.50	0.42
2:G:165:VAL:HG13	2:G:204:PRO:HD3	2.02	0.42
2:G:946:ALA:HB2	2:G:1048:GLY:O	2.20	0.42
2:G:1925:GLY:H	2:G:1928:GLN:HB2	1.85	0.42
2:G:2377:LEU:HB2	2:G:2465:ASP:HA	2.02	0.42
2:G:2950:SER:O	2:G:2953:LYS:HG2	2.20	0.42
2:B:721:LEU:HD22	2:B:768:PHE:CE2	2.55	0.42
2:B:1297:PHE:CE2	2:B:1525:GLY:HA2	2.54	0.42
2:B:2362:GLU:C	2:B:2369:ARG:NH1	2.78	0.42
2:B:3984:ARG:HH22	2:I:161:GLU:HA	1.84	0.42
2:B:4040:ILE:HG22	2:B:4044:MET:HE2	2.02	0.42
2:I:81:MET:HB3	2:I:81:MET:HE2	1.77	0.42
2:I:663:TYR:CE1	2:I:745:SER:HB3	2.55	0.42
2:I:721:LEU:HD22	2:I:768:PHE:CE2	2.55	0.42
2:I:2500:ALA:CB	2:I:2553:TYR:CE1	3.03	0.42
2:I:2694:GLU:HA	2:I:2697:ARG:HB3	2.00	0.42
2:I:3235:SER:HB3	2:I:3238:GLU:CD	2.45	0.42
2:A:475:GLN:CB	2:A:533:ASN:HD21	2.33	0.42
2:A:663:TYR:CE1	2:A:745:SER:HB3	2.55	0.42
2:A:1734:TYR:HE2	2:A:2137:ALA:HB1	1.85	0.42
2:A:2499:LYS:HA	2:A:2502:MET:HE3	2.00	0.42
2:A:2762:THR:HB	2:A:2805:TYR:HE2	1.84	0.42
2:A:2806:ARG:NH2	2:A:2809:ILE:HG22	2.34	0.42
2:A:3203:VAL:HG13	2:A:3205:PHE:N	2.35	0.42
2:A:3205:PHE:CE2	2:A:3276:MET:HE2	2.36	0.42
2:A:3723:MET:HE2	2:A:3793:MET:SD	2.60	0.42
2:A:4049:VAL:O	2:A:4052:SER:OG	2.24	0.42
2:A:4569:LEU:HD11	2:A:4649:LEU:HD23	2.01	0.42
2:A:4634:GLU:HG3	2:A:4639:MET:CG	2.46	0.42
2:G:227:MET:CE	2:G:389:PHE:HD2	2.15	0.42
2:G:299:LEU:HD12	2:G:299:LEU:HA	1.81	0.42
2:G:700:GLU:H	2:G:705:ASN:HD21	1.66	0.42
2:G:929:LEU:HD23	2:G:932:LEU:HD12	2.02	0.42
2:G:2093:SER:OG	2:G:2095:GLN:OE1	2.38	0.42
2:G:2655:TYR:HA	2:G:2667:THR:HG1	1.85	0.42
2:G:3068:LEU:CG	2:G:3139:VAL:HG21	2.33	0.42
2:G:3219:TYR:HE1	2:G:3232:LEU:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3417:ASP:OD1	2:G:3418:ASN:N	2.52	0.42
2:G:4205:TRP:CZ3	2:G:4989:MET:CE	3.03	0.42
2:B:648:ILE:HD11	2:B:821:LEU:HD13	2.02	0.42
2:B:929:LEU:HD23	2:B:932:LEU:HD12	2.02	0.42
2:B:1277:TRP:HB3	2:B:1559:GLN:HB3	2.01	0.42
2:B:2185:ILE:CD1	2:B:2203:MET:HE1	2.32	0.42
2:B:2277:ALA:HB1	2:B:2337:PHE:HD2	1.84	0.42
2:B:2694:GLU:HA	2:B:2697:ARG:HB3	2.00	0.42
2:B:3061:ALA:HA	2:B:3064:VAL:HG12	2.02	0.42
2:B:3409:TYR:O	2:B:3412:LEU:N	2.51	0.42
2:B:4722:ARG:NE	2:B:4748:LEU:HD11	2.35	0.42
2:I:102:LEU:HA	2:I:162:LYS:HA	2.02	0.42
2:I:1105:ALA:HB2	2:I:1191:VAL:HG11	2.01	0.42
2:I:1277:TRP:HB3	2:I:1559:GLN:HB3	2.01	0.42
2:I:2490:MET:SD	2:I:2546:MET:SD	3.18	0.42
2:I:2547:ALA:O	2:I:2551:ASN:OD1	2.37	0.42
2:I:2762:THR:HB	2:I:2805:TYR:HE2	1.84	0.42
2:I:3111:ARG:HH12	2:I:3174:SER:C	2.26	0.42
2:I:3260:GLY:HA2	2:I:3325:ASN:CG	2.45	0.42
2:I:3290:GLU:HG3	2:I:3309:SER:N	2.35	0.42
2:I:4114:CYS:O	2:I:4131:ARG:NH2	2.52	0.42
2:I:4569:LEU:HD11	2:I:4649:LEU:HD23	2.01	0.42
2:A:121:LEU:HB2	2:A:134:ASP:O	2.20	0.42
2:A:613:ALA:HB2	2:A:1676:LEU:HB2	2.00	0.42
2:A:1561:VAL:HG12	2:A:1562:ILE:HG23	2.01	0.42
2:A:2332:LEU:HD23	2:A:2429:LEU:CA	2.50	0.42
2:A:2499:LYS:HG2	2:A:2553:TYR:HH	1.74	0.42
2:A:4154:VAL:HG12	2:A:4157:ASP:HB2	2.02	0.42
2:A:4205:TRP:CZ3	2:A:4989:MET:CE	3.03	0.42
2:A:4646:LEU:HD23	2:A:4646:LEU:HA	1.89	0.42
2:G:121:LEU:HD23	2:G:121:LEU:HA	1.88	0.42
2:G:245:VAL:HG23	2:G:376:ALA:HB3	2.02	0.42
2:G:475:GLN:CB	2:G:533:ASN:HD21	2.33	0.42
2:G:1171:SER:OG	2:G:1172:ASP:N	2.53	0.42
2:G:2540:THR:OG1	2:G:2541:PHE:HD2	2.03	0.42
2:G:2694:GLU:HA	2:G:2697:ARG:HB3	2.00	0.42
2:G:2754:PHE:O	2:G:2806:ARG:NH2	2.53	0.42
2:G:3550:ARG:HD2	2:G:3597:GLN:OE1	2.20	0.42
2:G:4036:VAL:CB	2:G:5035:GLN:HG3	2.46	0.42
2:G:4040:ILE:HG22	2:G:4044:MET:HE2	2.02	0.42
2:G:4114:CYS:O	2:G:4131:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4572:ALA:O	2:G:4576:ILE:HG12	2.20	0.42
2:B:121:LEU:HB2	2:B:134:ASP:O	2.20	0.42
2:B:245:VAL:HG23	2:B:376:ALA:HB3	2.02	0.42
2:B:663:TYR:CE1	2:B:745:SER:HB3	2.55	0.42
2:B:861:ILE:CG2	2:B:933:LEU:HD12	2.50	0.42
2:B:896:VAL:HG23	2:B:897:ARG:HG2	2.02	0.42
2:B:2500:ALA:CB	2:B:2553:TYR:CE1	3.03	0.42
2:B:3984:ARG:NH1	2:B:3987:ASP:OD2	2.28	0.42
2:B:4182:GLU:O	2:B:4988:TYR:OH	2.33	0.42
2:I:2416:VAL:O	2:I:2417:HIS:HD2	2.03	0.42
2:I:2792:ARG:HH12	2:I:2796:THR:C	2.28	0.42
2:I:3822:ASP:OD2	2:I:3823:LYS:NZ	2.40	0.42
2:I:3916:ILE:H	2:I:3916:ILE:HD12	1.85	0.42
2:I:4722:ARG:HE	2:I:4722:ARG:HB2	1.45	0.42
2:A:165:VAL:HG13	2:A:204:PRO:HD3	2.02	0.41
2:A:829:TYR:CE1	2:A:1608:MET:HG2	2.55	0.41
2:A:861:ILE:CG2	2:A:933:LEU:HD12	2.50	0.41
2:A:863:LEU:HA	2:A:864:PRO:HD3	1.91	0.41
2:A:2244:ARG:HE	2:A:2244:ARG:HB3	1.74	0.41
2:A:2562:ILE:CG2	2:A:2582:MET:HE1	2.48	0.41
2:A:2680:TRP:HH2	2:A:2959:PHE:HA	1.84	0.41
2:A:2754:PHE:O	2:A:2806:ARG:NH2	2.53	0.41
1:J:57:LYS:O	1:J:61:GLU:OE1	2.37	0.41
1:O:35:LYS:HE3	1:O:35:LYS:HB3	1.88	0.41
2:G:861:ILE:CG2	2:G:933:LEU:HD12	2.50	0.41
2:G:876:GLU:HG2	2:G:910:PHE:CE1	2.55	0.41
2:G:1082:THR:OG1	2:G:1187:GLY:HA3	2.20	0.41
2:G:2416:VAL:O	2:G:2417:HIS:HD2	2.03	0.41
2:G:2499:LYS:HA	2:G:2502:MET:HE3	2.00	0.41
2:G:2713:ASP:OD1	2:G:3016:TYR:OH	2.12	0.41
2:G:2754:PHE:O	2:G:2806:ARG:NH1	2.53	0.41
2:G:3290:GLU:HG3	2:G:3309:SER:N	2.35	0.41
2:G:4722:ARG:NE	2:G:4748:LEU:HD11	2.35	0.41
2:B:1096:THR:O	2:B:1100:MET:HE2	2.19	0.41
2:B:2377:LEU:HB2	2:B:2465:ASP:HA	2.02	0.41
2:B:2696:TYR:CD2	2:B:3001:ILE:CG1	3.02	0.41
2:B:2994:GLU:O	2:B:2998:PHE:N	2.51	0.41
2:B:3634:ALA:O	2:B:3638:MET:HG2	2.19	0.41
2:B:4114:CYS:O	2:B:4131:ARG:NH2	2.52	0.41
2:B:4182:GLU:HG2	2:B:4192:ARG:HG2	2.02	0.41
2:I:927:GLU:HA	2:I:930:LYS:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:946:ALA:HB2	2:I:1048:GLY:O	2.20	0.41
2:I:1996:ARG:HA	2:I:1996:ARG:HE	1.85	0.41
2:I:2093:SER:OG	2:I:2095:GLN:OE1	2.38	0.41
2:I:2499:LYS:HG2	2:I:2553:TYR:HH	1.77	0.41
2:I:2540:THR:OG1	2:I:2541:PHE:HD2	2.03	0.41
2:I:3570:ARG:HE	2:I:3570:ARG:HB3	1.74	0.41
2:I:4753:HIS:CG	2:I:4754:ASN:H	2.37	0.41
2:A:245:VAL:HG23	2:A:376:ALA:HB3	2.02	0.41
2:A:1082:THR:OG1	2:A:1187:GLY:HA3	2.20	0.41
2:A:1087:ARG:NH2	2:A:1221:GLU:O	2.53	0.41
2:A:2416:VAL:O	2:A:2417:HIS:HD2	2.03	0.41
2:A:3126:GLY:O	2:A:3130:THR:HG23	2.21	0.41
2:A:3260:GLY:HA2	2:A:3325:ASN:CG	2.45	0.41
2:A:3320:LEU:HD21	2:A:3361:THR:HG21	2.02	0.41
2:A:3550:ARG:HD2	2:A:3597:GLN:OE1	2.20	0.41
2:A:4711:PHE:HB3	2:A:4712:PRO:HD3	2.02	0.41
2:A:4948:GLU:C	2:A:4951:LYS:HG2	2.44	0.41
1:J:7:ILE:HD11	1:J:73:LYS:HB2	2.01	0.41
2:G:374:LYS:HE2	2:G:374:LYS:HB2	1.83	0.41
2:G:663:TYR:CE1	2:G:745:SER:HB3	2.55	0.41
2:G:2290:LEU:HD11	2:G:2338:ALA:HB1	2.01	0.41
2:G:2314:LEU:HD21	2:G:2320:ASP:CG	2.45	0.41
2:G:2346:VAL:O	2:G:2350:ALA:N	2.51	0.41
2:G:2362:GLU:C	2:G:2369:ARG:NH1	2.78	0.41
2:G:2377:LEU:HD12	2:G:2468:GLY:HA3	2.01	0.41
2:G:2465:ASP:OD1	2:G:2465:ASP:N	2.51	0.41
2:G:2500:ALA:CB	2:G:2553:TYR:CE1	3.03	0.41
2:G:2745:VAL:HG21	2:G:2818:ALA:HA	2.01	0.41
2:G:2871:LEU:HD23	2:G:2874:MET:SD	2.60	0.41
2:G:3111:ARG:HH12	2:G:3174:SER:C	2.26	0.41
2:G:3723:MET:HE2	2:G:3793:MET:SD	2.60	0.41
2:B:81:MET:HE2	2:B:81:MET:HB3	1.77	0.41
2:B:378:LEU:HD23	2:B:378:LEU:HA	1.89	0.41
2:B:900:ASN:HA	2:B:904:HIS:CE1	2.55	0.41
2:B:2490:MET:SD	2:B:2546:MET:SD	3.18	0.41
2:B:2696:TYR:O	2:B:2700:MET:HG3	2.19	0.41
2:B:3166:TYR:OH	2:B:3203:VAL:HG11	2.20	0.41
2:B:3400:VAL:HG22	2:B:3403:ARG:HH11	1.84	0.41
2:B:3916:ILE:H	2:B:3916:ILE:HD12	1.85	0.41
2:B:4563:ARG:HD2	2:B:4563:ARG:HA	1.84	0.41
2:I:1561:VAL:HG12	2:I:1562:ILE:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:2485:LEU:CD2	2:I:2541:PHE:CZ	3.03	0.41
2:I:2488:PRO:HB2	2:I:2490:MET:HE2	2.01	0.41
2:I:3348:ARG:HA	2:I:3348:ARG:HD2	1.80	0.41
2:I:3695:PRO:HB3	2:I:3699:HIS:CD2	2.54	0.41
2:I:4036:VAL:CB	2:I:5035:GLN:HG3	2.46	0.41
2:I:4572:ALA:O	2:I:4576:ILE:HG12	2.20	0.41
2:I:5035:GLN:HG2	2:I:5036:LEU:H	1.86	0.41
2:A:896:VAL:HG23	2:A:897:ARG:HG2	2.01	0.41
2:A:2555:CYS:HB3	2:A:2599:GLN:HG3	2.02	0.41
2:A:2566:ALA:C	2:A:2569:PHE:CD1	2.95	0.41
2:A:2692:ASP:HB3	2:A:2695:LEU:HB3	2.02	0.41
2:A:3850:GLN:HB2	2:A:3873:LYS:HZ1	1.85	0.41
1:J:58:GLY:HA2	1:J:61:GLU:OE1	2.20	0.41
2:G:2806:ARG:NH2	2:G:2809:ILE:HG22	2.34	0.41
2:G:3260:GLY:HA2	2:G:3325:ASN:CG	2.45	0.41
2:G:3445:TRP:CH2	2:G:3452:LYS:CG	2.93	0.41
2:G:3514:LEU:HA	2:G:3514:LEU:HD12	1.82	0.41
2:G:4709:PRO:HD2	2:G:4772:ASP:OD1	2.20	0.41
2:B:2314:LEU:HD21	2:B:2320:ASP:CG	2.45	0.41
2:B:2809:ILE:HD13	2:B:2809:ILE:HA	1.95	0.41
2:B:2967:MET:HE3	2:B:3045:LYS:CE	2.45	0.41
2:B:3309:SER:HB2	2:B:3348:ARG:NE	2.36	0.41
2:B:3448:SER:O	2:B:3452:LYS:HE2	2.21	0.41
2:B:3633:VAL:HA	2:B:3636:PHE:CD1	2.55	0.41
2:B:4205:TRP:CZ3	2:B:4989:MET:CE	3.03	0.41
2:I:245:VAL:HG23	2:I:376:ALA:HB3	2.02	0.41
2:I:648:ILE:HD11	2:I:821:LEU:HD13	2.02	0.41
2:I:900:ASN:HA	2:I:904:HIS:CE1	2.55	0.41
2:I:1171:SER:OG	2:I:1172:ASP:N	2.53	0.41
2:I:2003:GLN:O	2:I:2007:ASN:N	2.51	0.41
2:I:2283:ASN:ND2	2:I:2286:LEU:HD12	2.28	0.41
2:I:2291:GLN:O	2:I:2294:ASP:N	2.48	0.41
2:I:2332:LEU:HD23	2:I:2429:LEU:CA	2.50	0.41
2:I:2538:THR:O	2:I:2542:SER:OG	2.28	0.41
2:I:2745:VAL:HG21	2:I:2818:ALA:HA	2.01	0.41
2:I:2754:PHE:O	2:I:2806:ARG:NH2	2.53	0.41
2:I:4205:TRP:CZ3	2:I:4989:MET:CE	3.03	0.41
2:A:123:THR:OG1	2:A:124:SER:N	2.53	0.41
2:A:214:VAL:O	2:A:274:LEU:HD13	2.20	0.41
2:A:2490:MET:SD	2:A:2546:MET:SD	3.18	0.41
2:A:2540:THR:OG1	2:A:2541:PHE:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4572:ALA:O	2:A:4576:ILE:HG12	2.20	0.41
1:O:57:LYS:O	1:O:61:GLU:OE1	2.37	0.41
2:G:494:LEU:HA	2:G:494:LEU:HD23	1.79	0.41
2:G:721:LEU:HD23	2:G:721:LEU:HA	1.86	0.41
2:G:932:LEU:HD21	2:G:988:LEU:HD22	2.03	0.41
2:G:1734:TYR:HE2	2:G:2137:ALA:HB1	1.85	0.41
2:G:2185:ILE:CD1	2:G:2203:MET:HE1	2.32	0.41
2:G:2485:LEU:CD2	2:G:2541:PHE:CZ	3.03	0.41
2:G:2792:ARG:HH12	2:G:2796:THR:C	2.27	0.41
2:G:3611:HIS:ND1	2:G:3611:HIS:O	2.54	0.41
2:G:3633:VAL:HA	2:G:3636:PHE:CD1	2.55	0.41
2:G:4118:ASP:OD1	2:G:4118:ASP:N	2.52	0.41
2:B:129:ASP:OD1	2:B:129:ASP:N	2.53	0.41
2:B:721:LEU:HD23	2:B:721:LEU:HA	1.86	0.41
2:B:1637:MET:HE3	2:B:1693:GLN:HB3	2.02	0.41
2:B:2346:VAL:O	2:B:2350:ALA:N	2.51	0.41
2:B:3445:TRP:CH2	2:B:3452:LYS:CG	2.93	0.41
2:B:3771:HIS:HD2	2:B:3815:LYS:NZ	2.19	0.41
2:I:1100:MET:HA	2:I:1193:SER:O	2.21	0.41
2:I:2314:LEU:HD21	2:I:2320:ASP:CG	2.45	0.41
2:I:2754:PHE:O	2:I:2806:ARG:NH1	2.53	0.41
2:I:2819:TRP:CZ2	2:I:2881:ASN:HB2	2.56	0.41
2:I:3448:SER:O	2:I:3452:LYS:HE2	2.21	0.41
2:A:889:GLN:O	2:A:892:THR:OG1	2.29	0.41
2:A:932:LEU:HD21	2:A:988:LEU:HD22	2.03	0.41
2:A:946:ALA:HB2	2:A:1048:GLY:O	2.20	0.41
2:A:1000:ARG:HA	2:A:1000:ARG:HD3	1.79	0.41
2:A:2949:SER:O	2:A:2952:GLU:HG2	2.21	0.41
2:A:2950:SER:O	2:A:2953:LYS:HG2	2.20	0.41
2:A:3061:ALA:HA	2:A:3064:VAL:HG12	2.02	0.41
2:A:3771:HIS:HD2	2:A:3815:LYS:NZ	2.19	0.41
2:A:5009:TYR:CE2	2:A:5013:MET:CE	3.03	0.41
1:H:58:GLY:HA2	1:H:61:GLU:OE1	2.20	0.41
2:G:214:VAL:O	2:G:274:LEU:HD13	2.20	0.41
2:G:1087:ARG:NH2	2:G:1221:GLU:O	2.53	0.41
2:G:1996:ARG:HA	2:G:1996:ARG:HE	1.86	0.41
2:G:2488:PRO:HB2	2:G:2490:MET:HE2	2.01	0.41
2:G:2894:LEU:HA	2:G:2897:LYS:HZ3	1.72	0.41
2:G:3395:ARG:NH1	2:G:3450:ASN:HB2	2.36	0.41
2:G:4720:VAL:O	2:G:4724:VAL:HG23	2.21	0.41
2:G:4747:SER:HA	2:G:4750:ILE:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:475:GLN:HB2	2:B:533:ASN:HD21	1.83	0.41
2:B:494:LEU:HD23	2:B:494:LEU:HA	1.79	0.41
2:B:1925:GLY:H	2:B:1928:GLN:HB2	1.85	0.41
2:B:2562:ILE:CG2	2:B:2582:MET:HE1	2.48	0.41
2:B:3205:PHE:CE2	2:B:3276:MET:HE2	2.36	0.41
2:B:3320:LEU:HD21	2:B:3361:THR:HG21	2.02	0.41
2:B:3550:ARG:HD2	2:B:3597:GLN:OE1	2.20	0.41
2:B:3570:ARG:NH1	2:I:1229:ASN:OD1	2.53	0.41
2:B:4154:VAL:HG12	2:B:4157:ASP:HB2	2.02	0.41
2:I:2587:TYR:O	2:I:2590:SER:OG	2.33	0.41
2:I:2765:LYS:HZ2	2:I:2861:ASP:HA	1.86	0.41
2:I:3320:LEU:HD21	2:I:3361:THR:HG21	2.02	0.41
2:I:3531:ASP:OD1	2:I:3531:ASP:N	2.52	0.41
2:I:3550:ARG:HD2	2:I:3597:GLN:OE1	2.20	0.41
1:F:7:ILE:HD11	1:F:73:LYS:HB2	2.01	0.41
2:A:2551:ASN:HB3	2:A:2599:GLN:NE2	2.26	0.41
2:A:3111:ARG:HH12	2:A:3174:SER:C	2.26	0.41
2:A:4822:THR:HG21	2:B:4835:LYS:HE3	2.02	0.41
2:G:134:ASP:OD1	2:G:134:ASP:N	2.53	0.41
2:G:1186:ASP:N	2:G:1186:ASP:OD1	2.45	0.41
2:G:2595:LEU:HD23	2:G:2595:LEU:HA	1.87	0.41
2:G:2962:GLN:OE1	2:G:2966:TRP:HZ3	2.03	0.41
2:G:3126:GLY:O	2:G:3130:THR:HG23	2.21	0.41
2:G:3196:ARG:HA	2:G:3196:ARG:HD3	1.90	0.41
2:G:4948:GLU:C	2:G:4951:LYS:HG2	2.44	0.41
2:B:1082:THR:OG1	2:B:1187:GLY:HA3	2.20	0.41
2:B:1105:ALA:HB2	2:B:1191:VAL:HG11	2.01	0.41
2:B:1171:SER:OG	2:B:1172:ASP:N	2.53	0.41
2:B:2651:CYS:O	2:B:2655:TYR:HD2	2.04	0.41
2:B:3278:CYS:CB	2:B:3345:ILE:HD11	2.51	0.41
2:B:3526:ALA:HB2	2:B:3576:TYR:CZ	2.56	0.41
2:B:3531:ASP:N	2:B:3531:ASP:OD1	2.53	0.41
2:B:4036:VAL:CB	2:B:5035:GLN:HG3	2.46	0.41
2:B:4243:PHE:O	2:B:4246:GLN:HG2	2.21	0.41
2:I:971:ASP:OD1	2:I:972:LEU:N	2.54	0.41
2:I:1000:ARG:HD3	2:I:1000:ARG:HA	1.79	0.41
2:I:2758:PHE:HA	2:I:2761:TYR:HB3	2.03	0.41
2:I:3312:LEU:HA	2:I:3312:LEU:HD23	1.89	0.41
2:I:3602:VAL:HG23	2:I:3603:LEU:HD22	2.03	0.41
2:I:4646:LEU:HD23	2:I:4646:LEU:HA	1.89	0.41
2:I:4789:PHE:CD2	2:I:4789:PHE:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:650:VAL:HG21	2:A:662:TRP:CD1	2.56	0.41
2:A:971:ASP:OD1	2:A:972:LEU:N	2.54	0.41
2:A:1186:ASP:OD1	2:A:1186:ASP:N	2.45	0.41
2:A:2377:LEU:HB2	2:A:2465:ASP:HA	2.02	0.41
2:A:2994:GLU:O	2:A:2998:PHE:N	2.51	0.41
2:A:3080:VAL:HG12	2:A:3081:MET:HE3	1.99	0.41
2:A:3166:TYR:OH	2:A:3203:VAL:HG11	2.20	0.41
2:A:4182:GLU:HG2	2:A:4192:ARG:HG2	2.02	0.41
2:A:4720:VAL:O	2:A:4724:VAL:HG23	2.21	0.41
2:G:442:ILE:HD11	2:G:514:SER:HB3	2.03	0.41
2:G:910:PHE:HD2	2:G:918:ARG:HE	1.68	0.41
2:G:2297:LYS:HE3	2:G:2301:TYR:CE2	2.55	0.41
2:G:2651:CYS:O	2:G:2655:TYR:HD2	2.04	0.41
2:G:4963:ILE:HB	2:G:4968:PHE:CE2	2.55	0.41
2:B:165:VAL:HG13	2:B:204:PRO:HD3	2.02	0.41
2:B:650:VAL:HG21	2:B:662:TRP:CD1	2.56	0.41
2:B:910:PHE:HD2	2:B:918:ARG:HE	1.68	0.41
2:B:927:GLU:HA	2:B:930:LYS:HD3	2.02	0.41
2:B:2692:ASP:HB3	2:B:2695:LEU:HB3	2.02	0.41
2:B:3078:ARG:HG3	2:B:3155:ASP:OD2	2.20	0.41
2:B:4012:LEU:HD12	2:B:4012:LEU:HA	1.84	0.41
2:B:4071:ILE:O	2:B:4074:SER:OG	2.32	0.41
2:B:4634:GLU:HG3	2:B:4639:MET:CG	2.46	0.41
2:I:121:LEU:HB2	2:I:134:ASP:O	2.20	0.41
2:I:442:ILE:HD11	2:I:514:SER:HB3	2.03	0.41
2:I:929:LEU:HD23	2:I:932:LEU:HD12	2.02	0.41
2:I:932:LEU:HD21	2:I:988:LEU:HD22	2.03	0.41
2:I:2638:LYS:HE3	2:I:2698:MET:HE3	2.02	0.41
2:I:2894:LEU:HG	2:I:2897:LYS:NZ	2.36	0.41
2:I:3335:MET:HE2	2:I:3335:MET:HB3	1.97	0.41
2:I:3526:ALA:HB2	2:I:3576:TYR:CZ	2.56	0.41
2:I:4709:PRO:HD2	2:I:4772:ASP:OD1	2.20	0.41
2:A:102:LEU:HA	2:A:162:LYS:HA	2.02	0.41
2:A:129:ASP:N	2:A:129:ASP:OD1	2.53	0.41
2:A:161:GLU:HA	2:G:3984:ARG:HH22	1.84	0.41
2:A:2754:PHE:O	2:A:2806:ARG:NH1	2.53	0.41
2:A:3301:PRO:HA	2:A:3302:PRO:HD3	1.95	0.41
2:A:3448:SER:O	2:A:3452:LYS:HE2	2.21	0.41
2:A:3602:VAL:HG23	2:A:3603:LEU:HD22	2.03	0.41
2:A:3802:ILE:HD11	2:A:3883:ASP:O	2.21	0.41
2:G:102:LEU:HA	2:G:162:LYS:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:123:THR:OG1	2:G:124:SER:N	2.53	0.41
2:G:129:ASP:N	2:G:129:ASP:OD1	2.53	0.41
2:G:971:ASP:OD1	2:G:972:LEU:N	2.54	0.41
2:G:1105:ALA:HB2	2:G:1191:VAL:HG11	2.01	0.41
2:G:2490:MET:SD	2:G:2546:MET:SD	3.18	0.41
2:G:2758:PHE:HA	2:G:2761:TYR:HB3	2.03	0.41
2:G:3166:TYR:OH	2:G:3203:VAL:HG11	2.20	0.41
2:G:3924:LEU:O	2:G:3927:GLN:HG3	2.21	0.41
2:G:4711:PHE:HB3	2:G:4712:PRO:HD3	2.02	0.41
2:B:876:GLU:HG2	2:B:910:PHE:CE1	2.55	0.41
2:B:932:LEU:HD21	2:B:988:LEU:HD22	2.03	0.41
2:B:988:LEU:HG	2:B:1039:LEU:HD13	2.03	0.41
2:B:2638:LYS:HE3	2:B:2698:MET:HE3	2.02	0.41
2:B:2675:THR:O	2:B:2678:LEU:HB3	2.21	0.41
2:B:2819:TRP:CZ2	2:B:2881:ASN:HB2	2.56	0.41
2:B:2894:LEU:HG	2:B:2897:LYS:NZ	2.36	0.41
2:B:3007:ASN:HA	2:B:3070:ILE:HG21	2.03	0.41
2:B:3144:PHE:HA	2:B:3147:ILE:HG22	2.03	0.41
2:B:3260:GLY:HA2	2:B:3325:ASN:CG	2.45	0.41
2:I:896:VAL:HG23	2:I:897:ARG:HG2	2.01	0.41
2:I:1925:GLY:H	2:I:1928:GLN:HB2	1.85	0.41
2:I:2555:CYS:HB3	2:I:2599:GLN:HG3	2.02	0.41
2:I:2871:LEU:HD23	2:I:2874:MET:SD	2.60	0.41
2:I:3531:ASP:OD1	2:I:3532:LEU:N	2.53	0.41
2:I:3633:VAL:HA	2:I:3636:PHE:CD1	2.55	0.41
2:I:3718:GLU:OE2	2:I:3723:MET:HE3	2.20	0.41
2:I:3813:GLN:C	2:I:3899:PHE:HZ	2.24	0.41
2:A:74:SER:O	2:A:75:VAL:C	2.64	0.41
2:A:81:MET:HE2	2:A:81:MET:HB3	1.77	0.41
2:A:664:PHE:CE1	2:A:746:CYS:HB2	2.56	0.41
2:A:876:GLU:HG2	2:A:910:PHE:CE1	2.55	0.41
2:A:988:LEU:HG	2:A:1039:LEU:HD13	2.03	0.41
2:A:1171:SER:OG	2:A:1172:ASP:N	2.53	0.41
2:A:1993:ARG:O	2:A:1996:ARG:HG2	2.21	0.41
2:A:2191:PHE:CA	2:A:2198:MET:HE3	2.41	0.41
2:A:2500:ALA:CB	2:A:2553:TYR:CE1	3.03	0.41
2:A:2595:LEU:HD22	2:A:2599:GLN:NE2	2.27	0.41
2:A:2651:CYS:HA	2:A:2661:TRP:HZ2	1.83	0.41
2:A:2651:CYS:O	2:A:2655:TYR:HD2	2.04	0.41
2:A:2745:VAL:HG21	2:A:2818:ALA:HA	2.01	0.41
2:A:2962:GLN:OE1	2:A:2966:TRP:HZ3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3007:ASN:HA	2:A:3070:ILE:HG21	2.03	0.41
2:A:3278:CYS:CB	2:A:3345:ILE:HD11	2.51	0.41
2:A:3290:GLU:HG3	2:A:3309:SER:N	2.35	0.41
2:A:3395:ARG:NH1	2:A:3450:ASN:HB2	2.36	0.41
2:A:3400:VAL:HG22	2:A:3403:ARG:HH11	1.84	0.41
2:A:3854:GLU:OE2	2:A:3946:GLN:OE1	2.39	0.41
2:A:3916:ILE:H	2:A:3916:ILE:HD12	1.85	0.41
2:A:3930:ILE:HG22	2:A:3995:VAL:HG11	2.03	0.41
2:A:4673:ARG:HA	2:A:4676:GLU:HG2	2.03	0.41
1:O:58:GLY:HA2	1:O:61:GLU:OE1	2.20	0.41
2:G:664:PHE:CE1	2:G:746:CYS:HB2	2.56	0.41
2:G:887:ILE:CG2	2:G:958:THR:HA	2.51	0.41
2:G:1993:ARG:O	2:G:1996:ARG:HG2	2.21	0.41
2:G:2003:GLN:O	2:G:2007:ASN:N	2.51	0.41
2:G:2555:CYS:HB3	2:G:2599:GLN:HG3	2.02	0.41
2:G:2556:LEU:HD23	2:G:2556:LEU:HA	1.87	0.41
2:G:2692:ASP:HB3	2:G:2695:LEU:HB3	2.02	0.41
2:G:2819:TRP:CZ2	2:G:2881:ASN:HB2	2.56	0.41
2:G:2949:SER:O	2:G:2952:GLU:HG2	2.21	0.41
2:G:3144:PHE:HA	2:G:3147:ILE:HG22	2.03	0.41
2:G:3243:ILE:HA	2:G:3244:PRO:HD3	1.95	0.41
2:G:3448:SER:O	2:G:3452:LYS:HE2	2.21	0.41
2:G:3531:ASP:OD1	2:G:3531:ASP:N	2.53	0.41
2:G:3854:GLU:OE2	2:G:3946:GLN:OE1	2.39	0.41
2:G:3980:LEU:HD23	2:G:3980:LEU:HA	1.77	0.41
2:G:4243:PHE:O	2:G:4246:GLN:HG2	2.21	0.41
2:B:74:SER:O	2:B:75:VAL:C	2.64	0.41
2:B:102:LEU:HA	2:B:162:LYS:HA	2.02	0.41
2:B:468:LEU:O	2:B:472:ARG:HG2	2.21	0.41
2:B:486:LEU:HD12	2:B:486:LEU:HA	1.93	0.41
2:B:826:ILE:O	2:B:827:LYS:C	2.64	0.41
2:B:971:ASP:OD1	2:B:972:LEU:N	2.54	0.41
2:B:1927:LEU:HD23	2:B:1927:LEU:HA	1.87	0.41
2:B:2499:LYS:HG2	2:B:2553:TYR:HH	1.75	0.41
2:B:2555:CYS:HB3	2:B:2599:GLN:HG3	2.02	0.41
2:B:2638:LYS:HD2	2:B:2638:LYS:HA	1.96	0.41
2:B:2754:PHE:O	2:B:2806:ARG:NH1	2.53	0.41
2:B:2758:PHE:HA	2:B:2761:TYR:HB3	2.03	0.41
2:B:2816:MET:CE	2:B:2878:LEU:HD13	2.51	0.41
2:B:2949:SER:O	2:B:2952:GLU:HG2	2.21	0.41
2:B:2962:GLN:OE1	2:B:2966:TRP:HZ3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3602:VAL:HG23	2:B:3603:LEU:HD22	2.03	0.41
2:B:3611:HIS:ND1	2:B:3611:HIS:O	2.54	0.41
2:B:5035:GLN:HG2	2:B:5036:LEU:H	1.86	0.41
2:I:69:LEU:HD21	2:I:202:MET:HE1	1.94	0.41
2:I:123:THR:OG1	2:I:124:SER:N	2.53	0.41
2:I:165:VAL:HG13	2:I:204:PRO:HD3	2.02	0.41
2:I:738:LEU:HD23	2:I:738:LEU:HA	1.83	0.41
2:I:928:THR:O	2:I:932:LEU:HG	2.21	0.41
2:I:1082:THR:OG1	2:I:1187:GLY:HA3	2.20	0.41
2:I:1228:ILE:HD12	2:I:1228:ILE:HA	1.77	0.41
2:I:1993:ARG:O	2:I:1996:ARG:HG2	2.21	0.41
2:I:2423:MET:CE	2:I:2494:PHE:HD1	2.33	0.41
2:I:2551:ASN:HB3	2:I:2599:GLN:NE2	2.26	0.41
2:I:3078:ARG:HG3	2:I:3155:ASP:OD2	2.20	0.41
2:I:3126:GLY:O	2:I:3130:THR:HG23	2.21	0.41
2:I:3144:PHE:HA	2:I:3147:ILE:HG22	2.03	0.41
2:I:3611:HIS:O	2:I:3611:HIS:ND1	2.54	0.41
2:I:3802:ILE:HD11	2:I:3883:ASP:O	2.21	0.41
2:I:3924:LEU:O	2:I:3927:GLN:HG3	2.21	0.41
2:I:4673:ARG:HA	2:I:4676:GLU:HG2	2.03	0.41
2:I:4711:PHE:HB3	2:I:4712:PRO:HD3	2.02	0.41
2:I:4720:VAL:O	2:I:4724:VAL:HG23	2.21	0.41
2:A:595:ARG:NH1	2:A:631:LEU:O	2.54	0.41
2:A:3526:ALA:HB2	2:A:3576:TYR:CZ	2.56	0.41
2:A:3611:HIS:ND1	2:A:3611:HIS:O	2.54	0.41
2:A:3986:TRP:CZ3	2:A:4044:MET:HG2	2.56	0.41
2:A:4722:ARG:NE	2:A:4748:LEU:HD11	2.35	0.41
2:A:4763:GLY:O	2:A:4766:THR:OG1	2.29	0.41
2:A:4951:LYS:HG3	2:A:4952:GLU:N	2.36	0.41
1:H:77:THR:OG1	1:H:78:PRO:HD2	2.21	0.41
2:G:121:LEU:HB2	2:G:134:ASP:O	2.20	0.41
2:G:451:TYR:O	2:G:474:ARG:NH1	2.50	0.41
2:G:988:LEU:HG	2:G:1039:LEU:HD13	2.03	0.41
2:G:2332:LEU:HD23	2:G:2429:LEU:CA	2.50	0.41
2:G:2369:ARG:HA	2:G:2369:ARG:HE	1.84	0.41
2:G:2700:MET:HB2	2:G:2700:MET:HE3	1.81	0.41
2:G:2894:LEU:HG	2:G:2897:LYS:NZ	2.36	0.41
2:B:178:ARG:HD3	2:B:193:ALA:O	2.21	0.41
2:B:1089:TYR:CD2	2:B:1152:MET:HE2	2.56	0.41
2:B:1734:TYR:HE2	2:B:2137:ALA:HB1	1.85	0.41
2:B:2312:MET:O	2:B:2316:LYS:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2894:LEU:C	2:B:2897:LYS:NZ	2.79	0.41
2:B:3126:GLY:O	2:B:3130:THR:HG23	2.21	0.41
2:B:3147:ILE:HD11	2:B:3156:VAL:HB	2.03	0.41
2:B:3327:LEU:CG	2:B:3368:ARG:NH2	2.84	0.41
2:B:3442:PHE:HE1	2:B:3511:VAL:HG12	1.86	0.41
2:B:4951:LYS:HG3	2:B:4952:GLU:N	2.36	0.41
2:I:49:LEU:HD23	2:I:49:LEU:HA	1.87	0.41
2:I:2377:LEU:HB2	2:I:2465:ASP:HA	2.02	0.41
2:I:2894:LEU:CB	2:I:2897:LYS:HZ1	2.34	0.41
2:I:3147:ILE:HD11	2:I:3156:VAL:HB	2.03	0.41
2:I:3278:CYS:CB	2:I:3345:ILE:HD11	2.51	0.41
2:I:3442:PHE:HE1	2:I:3511:VAL:HG12	1.86	0.41
2:I:4243:PHE:O	2:I:4246:GLN:HG2	2.21	0.41
2:A:648:ILE:HD11	2:A:821:LEU:HD13	2.02	0.40
2:A:2675:THR:O	2:A:2678:LEU:HB3	2.21	0.40
2:A:3312:LEU:CD1	2:A:3348:ARG:HG2	2.49	0.40
2:A:3442:PHE:HE1	2:A:3511:VAL:HG12	1.86	0.40
2:A:3633:VAL:HA	2:A:3636:PHE:CD1	2.55	0.40
2:A:4034:ASN:OD1	2:A:4038:GLY:HA3	2.21	0.40
2:A:4243:PHE:O	2:A:4246:GLN:HG2	2.21	0.40
2:A:4677:LEU:HD12	2:A:4677:LEU:C	2.46	0.40
2:G:896:VAL:HG23	2:G:897:ARG:HG2	2.02	0.40
2:G:1100:MET:HA	2:G:1193:SER:O	2.21	0.40
2:G:2490:MET:CE	2:G:2546:MET:SD	3.07	0.40
2:G:3061:ALA:HA	2:G:3064:VAL:HG12	2.02	0.40
2:G:3140:LEU:HA	2:G:3140:LEU:HD12	1.80	0.40
2:G:3278:CYS:CB	2:G:3345:ILE:HD11	2.51	0.40
2:G:3442:PHE:HE1	2:G:3511:VAL:HG12	1.86	0.40
2:G:3718:GLU:OE2	2:G:3723:MET:HE3	2.21	0.40
2:G:3802:ILE:HD11	2:G:3883:ASP:O	2.21	0.40
2:G:4182:GLU:HG2	2:G:4192:ARG:HG2	2.02	0.40
2:G:4677:LEU:O	2:G:4677:LEU:CD1	2.69	0.40
2:B:1100:MET:HA	2:B:1193:SER:O	2.21	0.40
2:B:1996:ARG:HA	2:B:1996:ARG:HE	1.86	0.40
2:B:4036:VAL:CG1	2:B:5035:GLN:HG3	2.51	0.40
2:B:4176:PRO:O	2:B:4202:ARG:NE	2.54	0.40
2:I:152:PRO:HB3	2:I:157:ARG:HB2	2.03	0.40
2:I:652:ARG:NH2	2:I:750:LEU:O	2.52	0.40
2:I:887:ILE:CG2	2:I:958:THR:HA	2.51	0.40
2:I:1694:LEU:O	2:I:1698:LEU:HG	2.22	0.40
2:I:2962:GLN:OE1	2:I:2966:TRP:HZ3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:3327:LEU:CG	2:I:3368:ARG:NH2	2.84	0.40
2:I:4154:VAL:HG12	2:I:4157:ASP:HB2	2.02	0.40
2:I:4963:ILE:HB	2:I:4968:PHE:CE2	2.55	0.40
1:F:2:VAL:HG12	1:F:61:GLU:CG	2.52	0.40
1:F:53:GLN:OE1	1:F:53:GLN:N	2.55	0.40
1:F:77:THR:OG1	1:F:78:PRO:HD2	2.21	0.40
2:A:928:THR:O	2:A:932:LEU:HG	2.21	0.40
2:A:1089:TYR:CD2	2:A:1152:MET:HE2	2.56	0.40
2:A:3270:ILE:HA	2:A:3274:LEU:HD11	2.03	0.40
2:A:3327:LEU:CG	2:A:3368:ARG:NH2	2.84	0.40
2:A:3544:ASP:OD2	2:A:3549:VAL:HG22	2.21	0.40
2:A:4036:VAL:CB	2:A:5035:GLN:HG3	2.46	0.40
1:J:53:GLN:OE1	1:J:53:GLN:N	2.55	0.40
2:G:2345:SER:OG	2:G:2508:ARG:NH2	2.51	0.40
2:G:2820:GLU:HB3	2:G:2937:VAL:HG21	2.04	0.40
2:G:3320:LEU:HD21	2:G:3361:THR:HG21	2.02	0.40
2:G:3986:TRP:CZ3	2:G:4044:MET:HG2	2.56	0.40
2:G:4154:VAL:HG12	2:G:4157:ASP:HB2	2.02	0.40
2:G:4683:PHE:HE2	2:G:5017:ARG:HG3	1.87	0.40
2:B:59:PRO:HD3	2:B:307:ALA:HB3	2.04	0.40
2:B:928:THR:O	2:B:932:LEU:HG	2.21	0.40
2:B:2518:LEU:C	2:B:2518:LEU:HD23	2.46	0.40
2:B:2575:ARG:NH1	2:B:2578:MET:SD	2.76	0.40
2:B:2754:PHE:O	2:B:2806:ARG:NH2	2.53	0.40
2:B:4673:ARG:HA	2:B:4676:GLU:HG2	2.03	0.40
2:I:33:LEU:HD23	2:I:33:LEU:H	1.87	0.40
2:I:595:ARG:NH1	2:I:631:LEU:O	2.54	0.40
2:I:664:PHE:CE1	2:I:746:CYS:HB2	2.56	0.40
2:I:863:LEU:HA	2:I:864:PRO:HD3	1.91	0.40
2:I:1089:TYR:CD2	2:I:1152:MET:HE2	2.56	0.40
2:I:2518:LEU:C	2:I:2518:LEU:HD23	2.46	0.40
2:I:2651:CYS:O	2:I:2655:TYR:HD2	2.04	0.40
2:I:2820:GLU:HB3	2:I:2937:VAL:HG21	2.03	0.40
2:I:3567:PRO:O	2:I:3570:ARG:HB3	2.22	0.40
2:I:3634:ALA:HA	2:I:3637:ARG:CD	2.52	0.40
2:I:3934:TYR:HA	2:I:3999:MET:CE	2.45	0.40
2:A:887:ILE:CG2	2:A:958:THR:HA	2.51	0.40
2:A:943:ASP:OD2	2:A:944:GLU:N	2.39	0.40
2:A:1927:LEU:HD23	2:A:1927:LEU:HA	1.87	0.40
2:A:2676:ARG:HE	2:A:2676:ARG:HB2	1.56	0.40
2:A:3144:PHE:HA	2:A:3147:ILE:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3825:GLU:OE1	2:A:3825:GLU:N	2.41	0.40
1:H:53:GLN:OE1	1:H:53:GLN:N	2.55	0.40
2:G:33:LEU:H	2:G:33:LEU:HD23	1.87	0.40
2:G:826:ILE:O	2:G:827:LYS:C	2.64	0.40
2:G:1115:LEU:HD21	2:G:1191:VAL:HG22	2.03	0.40
2:G:2312:MET:O	2:G:2316:LYS:HG2	2.21	0.40
2:G:3147:ILE:HD11	2:G:3156:VAL:HB	2.03	0.40
2:G:3327:LEU:CG	2:G:3368:ARG:NH2	2.84	0.40
2:G:4563:ARG:HD2	2:G:4563:ARG:HA	1.84	0.40
2:B:33:LEU:H	2:B:33:LEU:HD23	1.87	0.40
2:B:123:THR:OG1	2:B:124:SER:N	2.53	0.40
2:B:2416:VAL:O	2:B:2417:HIS:HD2	2.03	0.40
2:B:3544:ASP:OD2	2:B:3549:VAL:HG22	2.21	0.40
2:I:650:VAL:HG21	2:I:662:TRP:CD1	2.56	0.40
2:I:1734:TYR:HE2	2:I:2137:ALA:HB1	1.85	0.40
2:I:2212:VAL:HG13	2:I:2256:TYR:OH	2.21	0.40
2:I:2312:MET:O	2:I:2316:LYS:HG2	2.21	0.40
2:I:2675:THR:O	2:I:2678:LEU:HB3	2.21	0.40
2:I:3544:ASP:OD2	2:I:3549:VAL:HG22	2.21	0.40
2:I:3984:ARG:HE	2:I:3984:ARG:HB2	1.52	0.40
2:A:59:PRO:HD3	2:A:307:ALA:HB3	2.04	0.40
2:A:378:LEU:HA	2:A:378:LEU:HD23	1.89	0.40
2:A:442:ILE:HD11	2:A:514:SER:HB3	2.03	0.40
2:A:1566:LEU:O	2:A:1589:PRO:HB3	2.22	0.40
2:A:1842:LEU:HD23	2:A:1842:LEU:HA	1.93	0.40
2:A:3147:ILE:HD11	2:A:3156:VAL:HB	2.03	0.40
2:A:3783:ILE:HG13	2:A:3797:THR:HG21	2.03	0.40
2:A:4036:VAL:CG1	2:A:5035:GLN:HG3	2.51	0.40
2:A:4789:PHE:CD2	2:A:4789:PHE:C	2.99	0.40
1:O:53:GLN:N	1:O:53:GLN:OE1	2.55	0.40
2:G:178:ARG:HD3	2:G:193:ALA:O	2.21	0.40
2:G:648:ILE:HD11	2:G:821:LEU:HD13	2.02	0.40
2:G:1566:LEU:O	2:G:1589:PRO:HB3	2.22	0.40
2:G:1568:LYS:HB2	2:G:1572:ILE:O	2.22	0.40
2:G:1694:LEU:O	2:G:1698:LEU:HG	2.22	0.40
2:G:1943:LEU:HD13	2:G:2101:MET:HE3	1.86	0.40
2:G:2638:LYS:HE3	2:G:2698:MET:HE3	2.02	0.40
2:G:2651:CYS:HA	2:G:2661:TRP:HZ2	1.83	0.40
2:G:2675:THR:O	2:G:2678:LEU:HB3	2.21	0.40
2:G:3312:LEU:CD1	2:G:3348:ARG:HG2	2.49	0.40
2:G:3526:ALA:HB2	2:G:3576:TYR:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3771:HIS:HD2	2:G:3815:LYS:NZ	2.18	0.40
2:G:4036:VAL:CG1	2:G:5035:GLN:HG3	2.51	0.40
2:G:4673:ARG:HA	2:G:4676:GLU:HG2	2.03	0.40
2:G:4744:ASP:OD1	2:G:4745:LEU:N	2.55	0.40
2:G:4789:PHE:CD2	2:G:4789:PHE:C	2.99	0.40
2:G:4835:LYS:HE3	2:I:4822:THR:HG21	2.02	0.40
2:B:442:ILE:HD11	2:B:514:SER:HB3	2.03	0.40
2:B:2383:ALA:HA	2:B:2386:ILE:HG22	2.04	0.40
2:B:2638:LYS:HZ2	2:B:2698:MET:HG3	1.84	0.40
2:B:3416:VAL:CG2	2:B:3517:MET:HE2	2.45	0.40
2:B:3802:ILE:HD11	2:B:3883:ASP:O	2.21	0.40
2:B:3924:LEU:O	2:B:3927:GLN:HG3	2.21	0.40
2:B:3927:GLN:HG2	2:B:3988:ALA:HA	2.04	0.40
2:B:4034:ASN:OD1	2:B:4038:GLY:HA3	2.21	0.40
2:B:4744:ASP:OD1	2:B:4745:LEU:N	2.55	0.40
2:I:74:SER:O	2:I:75:VAL:C	2.64	0.40
2:I:214:VAL:O	2:I:274:LEU:HD13	2.20	0.40
2:I:876:GLU:HG2	2:I:910:PHE:CE1	2.55	0.40
2:I:988:LEU:HG	2:I:1039:LEU:HD13	2.03	0.40
2:I:3313:ASN:OD1	2:I:3350:ARG:N	2.37	0.40
2:I:3793:MET:HB3	2:I:3793:MET:HE3	1.77	0.40
2:I:3927:GLN:HG2	2:I:3988:ALA:HA	2.04	0.40
2:I:4034:ASN:OD1	2:I:4038:GLY:HA3	2.21	0.40
2:I:4036:VAL:CG1	2:I:5035:GLN:HG3	2.51	0.40
2:I:4744:ASP:OD1	2:I:4745:LEU:N	2.55	0.40
2:A:50:GLU:HA	2:A:51:PRO:HD3	1.90	0.40
2:A:509:GLU:O	2:A:513:GLU:HG2	2.22	0.40
2:A:870:ILE:HD12	2:A:870:ILE:HA	1.88	0.40
2:A:1110:ARG:HB2	2:A:1113:VAL:HG22	2.04	0.40
2:A:2258:LEU:HD23	2:A:2258:LEU:HA	1.82	0.40
2:A:2638:LYS:HE3	2:A:2698:MET:HE3	2.02	0.40
2:A:2819:TRP:CZ2	2:A:2881:ASN:HB2	2.56	0.40
2:A:3183:VAL:O	2:A:3187:ARG:HG2	2.22	0.40
2:A:3327:LEU:HB2	2:A:3368:ARG:NH2	2.37	0.40
2:A:3335:MET:HE2	2:A:3335:MET:HB3	1.97	0.40
2:A:3718:GLU:OE2	2:A:3723:MET:HE3	2.21	0.40
2:A:3924:LEU:O	2:A:3927:GLN:HG3	2.21	0.40
2:A:3927:GLN:HG2	2:A:3988:ALA:HA	2.04	0.40
2:G:127:MET:HG2	2:G:128:THR:N	2.37	0.40
2:G:152:PRO:HB3	2:G:157:ARG:HB2	2.04	0.40
2:G:468:LEU:O	2:G:472:ARG:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:595:ARG:NH1	2:G:631:LEU:O	2.54	0.40
2:G:650:VAL:HG21	2:G:662:TRP:CD1	2.56	0.40
2:G:1942:LEU:HD23	2:G:1942:LEU:HA	1.92	0.40
2:G:2383:ALA:HA	2:G:2386:ILE:HG22	2.04	0.40
2:G:3567:PRO:O	2:G:3570:ARG:HB3	2.22	0.40
2:G:4951:LYS:HG3	2:G:4952:GLU:N	2.36	0.40
2:B:509:GLU:O	2:B:513:GLU:HG2	2.22	0.40
2:B:1110:ARG:HB2	2:B:1113:VAL:HG22	2.04	0.40
2:B:1251:GLU:OE1	2:B:1251:GLU:N	2.53	0.40
2:B:3567:PRO:O	2:B:3570:ARG:HB3	2.22	0.40
2:B:4705:VAL:HG23	2:B:4775:TYR:HD1	1.87	0.40
2:B:4720:VAL:O	2:B:4724:VAL:HG23	2.21	0.40
2:I:861:ILE:CG2	2:I:933:LEU:HD12	2.50	0.40
2:I:2656:CYS:SG	2:I:2657:LEU:HG	2.62	0.40
2:I:2949:SER:O	2:I:2952:GLU:HG2	2.21	0.40
2:I:3007:ASN:HA	2:I:3070:ILE:HG21	2.03	0.40
2:I:3771:HIS:HD2	2:I:3815:LYS:NZ	2.19	0.40
2:I:3783:ILE:HG13	2:I:3797:THR:HG21	2.03	0.40
2:I:4563:ARG:HD2	2:I:4563:ARG:HA	1.84	0.40
2:I:4976:GLU:OE1	2:I:4976:GLU:N	2.45	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	H	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	J	105/108 (97%)	101 (96%)	4 (4%)	0	100	100
1	O	105/108 (97%)	101 (96%)	4 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	A	4260/5037 (85%)	4079 (96%)	179 (4%)	2 (0%)	100	100
2	B	4260/5037 (85%)	4078 (96%)	180 (4%)	2 (0%)	100	100
2	G	4260/5037 (85%)	4080 (96%)	178 (4%)	2 (0%)	100	100
2	I	4260/5037 (85%)	4079 (96%)	179 (4%)	2 (0%)	100	100
All	All	17460/20580 (85%)	16720 (96%)	732 (4%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	801	LYS
2	G	801	LYS
2	B	801	LYS
2	I	801	LYS
2	A	3267	PRO
2	G	3267	PRO
2	B	3267	PRO
2	I	3267	PRO

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	F	88/89 (99%)	77 (88%)	11 (12%)	4	17
1	H	88/89 (99%)	77 (88%)	11 (12%)	4	17
1	J	88/89 (99%)	77 (88%)	11 (12%)	4	17
1	O	88/89 (99%)	77 (88%)	11 (12%)	4	17
2	A	3738/4276 (87%)	3722 (100%)	16 (0%)	84	82
2	B	3738/4276 (87%)	3721 (100%)	17 (0%)	81	80
2	G	3738/4276 (87%)	3722 (100%)	16 (0%)	84	82
2	I	3738/4276 (87%)	3721 (100%)	17 (0%)	81	80
All	All	15304/17460 (88%)	15194 (99%)	110 (1%)	73	77

All (110) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	18	LYS
1	F	20	GLN
1	F	23	VAL
1	F	24	VAL
1	F	25	HIS
1	F	38	SER
1	F	39	SER
1	F	40	ARG
1	F	43	ASN
1	F	44	LYS
1	F	107	GLU
2	A	751	SER
2	A	754	SER
2	A	838	HIS
2	A	3892	CYS
2	A	3893	GLU
2	A	4025	VAL
2	A	4031	LEU
2	A	4231	MET
2	A	4233	LEU
2	A	4237	PHE
2	A	4239	GLU
2	A	4672	LYS
2	A	4680	LYS
2	A	4713	SER
2	A	4717	ASP
2	A	5016	GLU
1	H	18	LYS
1	H	20	GLN
1	H	23	VAL
1	H	24	VAL
1	H	25	HIS
1	H	38	SER
1	H	39	SER
1	H	40	ARG
1	H	43	ASN
1	H	44	LYS
1	H	107	GLU
1	J	18	LYS
1	J	20	GLN
1	J	23	VAL
1	J	24	VAL

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Mol	Chain	Res	Type
1	J	25	HIS
1	J	38	SER
1	J	39	SER
1	J	40	ARG
1	J	43	ASN
1	J	44	LYS
1	J	107	GLU
1	O	18	LYS
1	O	20	GLN
1	O	23	VAL
1	O	24	VAL
1	O	25	HIS
1	O	38	SER
1	O	39	SER
1	O	40	ARG
1	O	43	ASN
1	O	44	LYS
1	O	107	GLU
2	G	751	SER
2	G	754	SER
2	G	838	HIS
2	G	3892	CYS
2	G	3893	GLU
2	G	4025	VAL
2	G	4031	LEU
2	G	4231	MET
2	G	4233	LEU
2	G	4237	PHE
2	G	4239	GLU
2	G	4672	LYS
2	G	4680	LYS
2	G	4713	SER
2	G	4717	ASP
2	G	5016	GLU
2	B	751	SER
2	B	754	SER
2	B	838	HIS
2	B	3892	CYS
2	B	3893	GLU
2	B	4025	VAL
2	B	4026	MET
2	B	4031	LEU

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Mol	Chain	Res	Type
2	B	4231	MET
2	B	4233	LEU
2	B	4237	PHE
2	B	4239	GLU
2	B	4672	LYS
2	B	4680	LYS
2	B	4713	SER
2	B	4717	ASP
2	B	5016	GLU
2	I	751	SER
2	I	754	SER
2	I	838	HIS
2	I	3892	CYS
2	I	3893	GLU
2	I	4025	VAL
2	I	4026	MET
2	I	4031	LEU
2	I	4231	MET
2	I	4233	LEU
2	I	4237	PHE
2	I	4239	GLU
2	I	4672	LYS
2	I	4680	LYS
2	I	4713	SER
2	I	4717	ASP
2	I	5016	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (160) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	31	GLN
1	F	87	HIS
2	A	181	HIS
2	A	479	GLN
2	A	533	ASN
2	A	705	ASN
2	A	838	HIS
2	A	866	HIS
2	A	877	ASN
2	A	974	HIS
2	A	1127	HIS
2	A	1203	ASN

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Mol	Chain	Res	Type
2	A	1299	GLN
2	A	1482	ASN
2	A	1563	GLN
2	A	1590	GLN
2	A	2127	GLN
2	A	2194	HIS
2	A	2283	ASN
2	A	2444	GLN
2	A	2599	GLN
2	A	2788	HIS
2	A	2931	GLN
2	A	2976	HIS
2	A	2993	GLN
2	A	3008	GLN
2	A	3033	ASN
2	A	3052	HIS
2	A	3771	HIS
2	A	3851	ASN
2	A	3882	GLN
2	A	3946	GLN
2	A	3982	HIS
2	A	4130	ASN
2	A	4156	HIS
2	A	4250	GLN
2	A	4650	HIS
2	A	4728	HIS
2	A	4776	GLN
2	A	4857	ASN
2	A	4973	HIS
2	A	4978	HIS
1	H	31	GLN
1	J	31	GLN
1	O	31	GLN
2	G	181	HIS
2	G	479	GLN
2	G	533	ASN
2	G	678	GLN
2	G	705	ASN
2	G	838	HIS
2	G	866	HIS
2	G	877	ASN
2	G	1127	HIS

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Mol	Chain	Res	Type
2	G	1203	ASN
2	G	1244	GLN
2	G	1299	GLN
2	G	1482	ASN
2	G	1590	GLN
2	G	2127	GLN
2	G	2194	HIS
2	G	2283	ASN
2	G	2324	ASN
2	G	2444	GLN
2	G	2599	GLN
2	G	2788	HIS
2	G	2931	GLN
2	G	2976	HIS
2	G	2993	GLN
2	G	3033	ASN
2	G	3052	HIS
2	G	3357	HIS
2	G	3771	HIS
2	G	3851	ASN
2	G	3882	GLN
2	G	3946	GLN
2	G	4130	ASN
2	G	4156	HIS
2	G	4250	GLN
2	G	4650	HIS
2	G	4728	HIS
2	G	4776	GLN
2	G	4857	ASN
2	G	4978	HIS
2	B	181	HIS
2	B	479	GLN
2	B	533	ASN
2	B	678	GLN
2	B	705	ASN
2	B	838	HIS
2	B	866	HIS
2	B	1203	ASN
2	B	1244	GLN
2	B	1299	GLN
2	B	1482	ASN
2	B	1590	GLN

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Mol	Chain	Res	Type
2	B	2127	GLN
2	B	2161	GLN
2	B	2194	HIS
2	B	2283	ASN
2	B	2444	GLN
2	B	2599	GLN
2	B	2788	HIS
2	B	2931	GLN
2	B	2976	HIS
2	B	2993	GLN
2	B	3033	ASN
2	B	3052	HIS
2	B	3771	HIS
2	B	3851	ASN
2	B	3882	GLN
2	B	3946	GLN
2	B	4130	ASN
2	B	4156	HIS
2	B	4250	GLN
2	B	4650	HIS
2	B	4728	HIS
2	B	4776	GLN
2	B	4857	ASN
2	B	4973	HIS
2	B	4978	HIS
2	I	181	HIS
2	I	460	GLN
2	I	479	GLN
2	I	533	ASN
2	I	705	ASN
2	I	838	HIS
2	I	866	HIS
2	I	877	ASN
2	I	974	HIS
2	I	1203	ASN
2	I	1244	GLN
2	I	1299	GLN
2	I	1482	ASN
2	I	1590	GLN
2	I	1953	HIS
2	I	2127	GLN
2	I	2194	HIS

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Mol	Chain	Res	Type
2	I	2283	ASN
2	I	2324	ASN
2	I	2444	GLN
2	I	2599	GLN
2	I	2788	HIS
2	I	2931	GLN
2	I	2976	HIS
2	I	2993	GLN
2	I	3033	ASN
2	I	3052	HIS
2	I	3771	HIS
2	I	3851	ASN
2	I	3882	GLN
2	I	3946	GLN
2	I	3982	HIS
2	I	4054	ASN
2	I	4130	ASN
2	I	4250	GLN
2	I	4650	HIS
2	I	4728	HIS
2	I	4776	GLN
2	I	4978	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	CFF	B	5304	-	15,15,15	1.60	4 (26%)	23,23,23	1.73	7 (30%)
3	ATP	B	5301	-	32,33,33	1.30	5 (15%)	48,52,52	1.74	8 (16%)
6	CFF	G	5304	-	15,15,15	1.58	4 (26%)	23,23,23	1.72	7 (30%)
3	ATP	A	5301	-	32,33,33	1.30	5 (15%)	48,52,52	1.75	8 (16%)
3	ATP	G	5301	-	32,33,33	1.30	5 (15%)	48,52,52	1.75	8 (16%)
3	ATP	I	5301	-	32,33,33	1.30	5 (15%)	48,52,52	1.74	8 (16%)
6	CFF	A	5304	-	15,15,15	1.60	4 (26%)	23,23,23	1.73	7 (30%)
6	CFF	I	5304	-	15,15,15	1.60	4 (26%)	23,23,23	1.74	7 (30%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	CFF	B	5304	-	-	-	0/2/2/2
3	ATP	B	5301	-	-	4/22/38/38	0/3/3/3
6	CFF	G	5304	-	-	-	0/2/2/2
3	ATP	A	5301	-	-	4/22/38/38	0/3/3/3
3	ATP	G	5301	-	-	4/22/38/38	0/3/3/3
3	ATP	I	5301	-	-	4/22/38/38	0/3/3/3
6	CFF	A	5304	-	-	-	0/2/2/2
6	CFF	I	5304	-	-	-	0/2/2/2

All (36) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	5301	ATP	C5-C4	4.16	1.46	1.39
3	A	5301	ATP	C5-C4	4.15	1.46	1.39
3	G	5301	ATP	C5-C4	4.13	1.46	1.39
3	B	5301	ATP	C5-C4	4.13	1.46	1.39
6	A	5304	CFF	C4-N3	-3.37	1.32	1.38
6	B	5304	CFF	C4-N3	-3.37	1.32	1.38
6	I	5304	CFF	C4-N3	-3.37	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	5304	CFF	C4-N3	-3.33	1.32	1.38
3	B	5301	ATP	C5-N7	-2.68	1.34	1.39
3	I	5301	ATP	C5-N7	-2.68	1.34	1.39
3	A	5301	ATP	C5-N7	-2.67	1.34	1.39
3	G	5301	ATP	C5-N7	-2.67	1.34	1.39
6	B	5304	CFF	C5-N7	-2.66	1.33	1.38
6	A	5304	CFF	C5-N7	-2.63	1.33	1.38
6	I	5304	CFF	C5-N7	-2.62	1.33	1.38
6	A	5304	CFF	C5-C4	2.58	1.45	1.37
6	G	5304	CFF	C5-C4	2.58	1.45	1.37
6	B	5304	CFF	C5-C4	2.58	1.45	1.37
6	I	5304	CFF	C5-C4	2.58	1.45	1.37
6	G	5304	CFF	C5-N7	-2.58	1.33	1.38
3	G	5301	ATP	C4-N9	-2.25	1.33	1.37
3	G	5301	ATP	C5-C6	2.25	1.47	1.41
3	B	5301	ATP	C5-C6	2.25	1.47	1.41
3	A	5301	ATP	C5-C6	2.23	1.47	1.41
3	I	5301	ATP	C5-C6	2.23	1.47	1.41
3	A	5301	ATP	C4-N9	-2.22	1.33	1.37
3	B	5301	ATP	C4-N9	-2.21	1.33	1.37
3	I	5301	ATP	C4-N9	-2.21	1.33	1.37
3	A	5301	ATP	C8-N7	2.11	1.35	1.31
3	G	5301	ATP	C8-N7	2.10	1.35	1.31
3	I	5301	ATP	C8-N7	2.07	1.35	1.31
3	B	5301	ATP	C8-N7	2.07	1.35	1.31
6	G	5304	CFF	C5-C6	2.06	1.48	1.43
6	A	5304	CFF	C5-C6	2.06	1.48	1.43
6	B	5304	CFF	C5-C6	2.06	1.48	1.43
6	I	5304	CFF	C5-C6	2.03	1.48	1.43

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	G	5301	ATP	C5-C4-N3	-5.69	118.88	126.72
3	A	5301	ATP	C5-C4-N3	-5.69	118.88	126.72
3	B	5301	ATP	C5-C4-N3	-5.67	118.91	126.72
3	I	5301	ATP	C5-C4-N3	-5.65	118.93	126.72
3	A	5301	ATP	N3-C4-N9	4.55	134.91	127.17
3	G	5301	ATP	N3-C4-N9	4.55	134.91	127.17
3	B	5301	ATP	N3-C4-N9	4.53	134.88	127.17
3	I	5301	ATP	N3-C4-N9	4.53	134.88	127.17
6	B	5304	CFF	N3-C2-N1	4.22	122.42	117.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	I	5304	CFF	N3-C2-N1	4.22	122.42	117.14
6	A	5304	CFF	N3-C2-N1	4.21	122.40	117.14
6	G	5304	CFF	N3-C2-N1	4.18	122.37	117.14
3	G	5301	ATP	C2-N3-C4	3.61	120.65	111.83
3	A	5301	ATP	C2-N3-C4	3.61	120.64	111.83
3	B	5301	ATP	C2-N3-C4	3.60	120.62	111.83
3	I	5301	ATP	C2-N3-C4	3.58	120.58	111.83
3	G	5301	ATP	N3-C2-N1	-3.30	123.59	128.58
3	B	5301	ATP	N3-C2-N1	-3.30	123.59	128.58
3	A	5301	ATP	N3-C2-N1	-3.29	123.59	128.58
3	I	5301	ATP	N3-C2-N1	-3.27	123.63	128.58
3	B	5301	ATP	C4-C5-N7	-3.26	106.85	110.58
3	A	5301	ATP	C4-C5-N7	-3.26	106.85	110.58
3	I	5301	ATP	C4-C5-N7	-3.24	106.88	110.58
3	G	5301	ATP	C4-C5-N7	-3.24	106.88	110.58
6	I	5304	CFF	C6-N1-C2	-2.88	120.97	125.66
6	B	5304	CFF	C6-N1-C2	-2.86	121.01	125.66
6	A	5304	CFF	C6-N1-C2	-2.85	121.02	125.66
6	I	5304	CFF	C6-C5-C4	-2.83	119.36	122.92
6	B	5304	CFF	C6-C5-C4	-2.81	119.37	122.92
6	A	5304	CFF	C6-C5-C4	-2.81	119.38	122.92
6	G	5304	CFF	C6-N1-C2	-2.81	121.09	125.66
3	G	5301	ATP	C4-N9-C8	2.80	108.67	105.74
3	A	5301	ATP	C4-N9-C8	2.79	108.67	105.74
3	B	5301	ATP	C4-N9-C8	2.77	108.64	105.74
3	I	5301	ATP	C4-N9-C8	2.77	108.64	105.74
6	G	5304	CFF	C6-C5-C4	-2.76	119.44	122.92
3	B	5301	ATP	C5-N7-C8	2.46	107.32	103.45
3	A	5301	ATP	C5-N7-C8	2.45	107.30	103.45
3	I	5301	ATP	C5-N7-C8	2.44	107.28	103.45
3	G	5301	ATP	C5-N7-C8	2.43	107.27	103.45
6	G	5304	CFF	N3-C4-N9	2.35	129.96	126.27
6	A	5304	CFF	N3-C4-N9	2.33	129.94	126.27
6	I	5304	CFF	N3-C4-N9	2.32	129.91	126.27
6	B	5304	CFF	N3-C4-N9	2.31	129.91	126.27
6	I	5304	CFF	C5-C4-N9	-2.23	107.68	112.10
6	A	5304	CFF	C5-C4-N9	-2.23	107.69	112.10
6	B	5304	CFF	C5-C4-N9	-2.22	107.69	112.10
6	G	5304	CFF	C5-C4-N9	-2.21	107.72	112.10
6	I	5304	CFF	C5-C6-N1	2.14	115.98	112.06
6	B	5304	CFF	C5-C6-N1	2.12	115.94	112.06
6	A	5304	CFF	C5-C6-N1	2.12	115.94	112.06

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	5304	CFF	O11-C2-N3	-2.10	118.42	121.33
3	G	5301	ATP	N9-C8-N7	-2.10	110.96	113.94
3	A	5301	ATP	N9-C8-N7	-2.10	110.96	113.94
6	A	5304	CFF	O11-C2-N3	-2.09	118.44	121.33
6	B	5304	CFF	O11-C2-N3	-2.09	118.44	121.33
6	I	5304	CFF	O11-C2-N3	-2.09	118.44	121.33
3	B	5301	ATP	N9-C8-N7	-2.09	110.97	113.94
6	G	5304	CFF	C5-C6-N1	2.08	115.87	112.06
3	I	5301	ATP	N9-C8-N7	-2.06	111.01	113.94

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	5301	ATP	C5'-O5'-PA-O3A
3	G	5301	ATP	C5'-O5'-PA-O3A
3	B	5301	ATP	C5'-O5'-PA-O3A
3	I	5301	ATP	C5'-O5'-PA-O3A
3	A	5301	ATP	O4'-C1'-N9-C4
3	G	5301	ATP	O4'-C1'-N9-C4
3	B	5301	ATP	O4'-C1'-N9-C4
3	I	5301	ATP	O4'-C1'-N9-C4
3	A	5301	ATP	O4'-C1'-N9-C8
3	G	5301	ATP	O4'-C1'-N9-C8
3	B	5301	ATP	O4'-C1'-N9-C8
3	I	5301	ATP	O4'-C1'-N9-C8
3	A	5301	ATP	PA-O3A-PB-O1B
3	G	5301	ATP	PA-O3A-PB-O1B
3	B	5301	ATP	PA-O3A-PB-O1B
3	I	5301	ATP	PA-O3A-PB-O1B

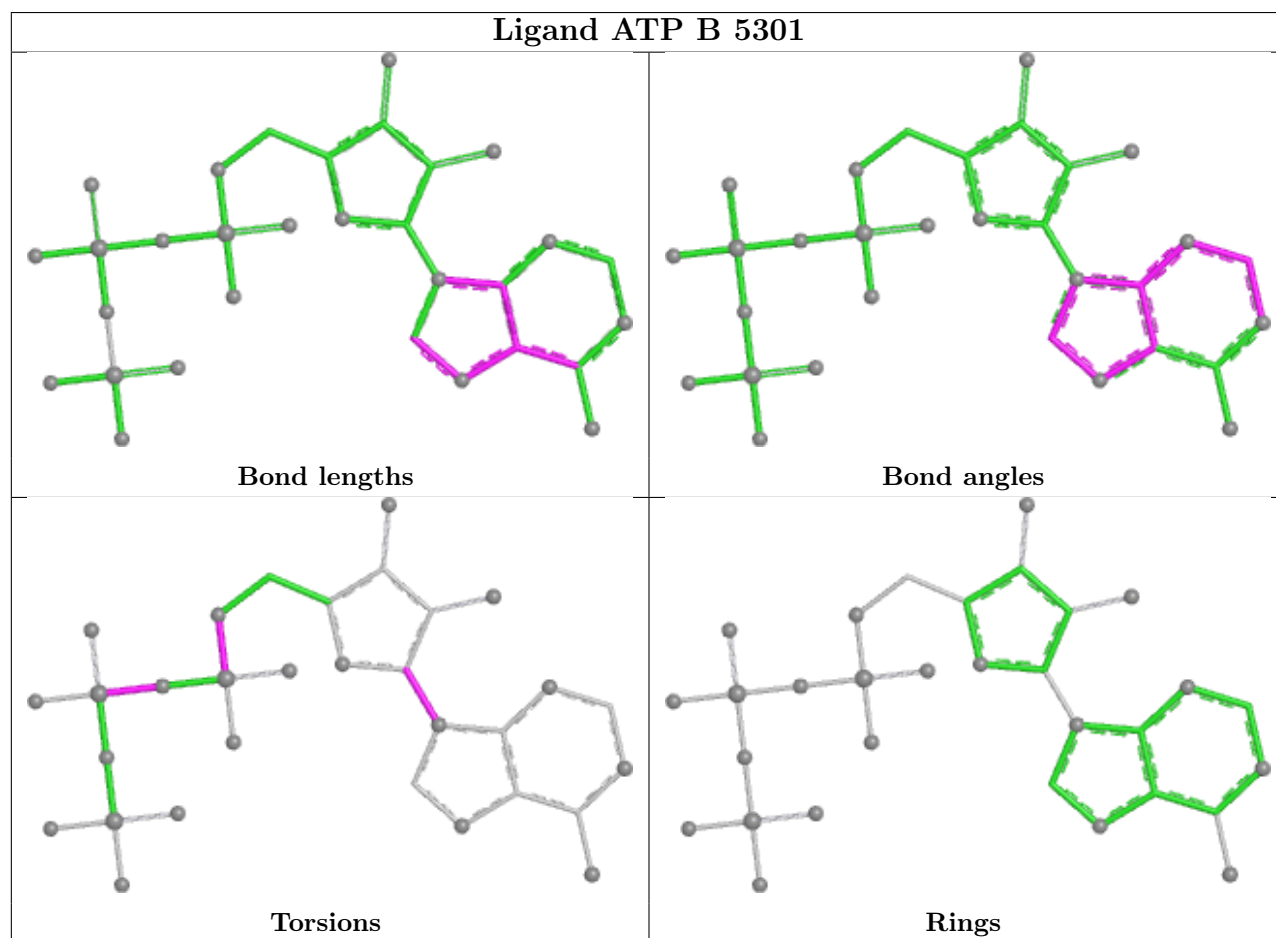
There are no ring outliers.

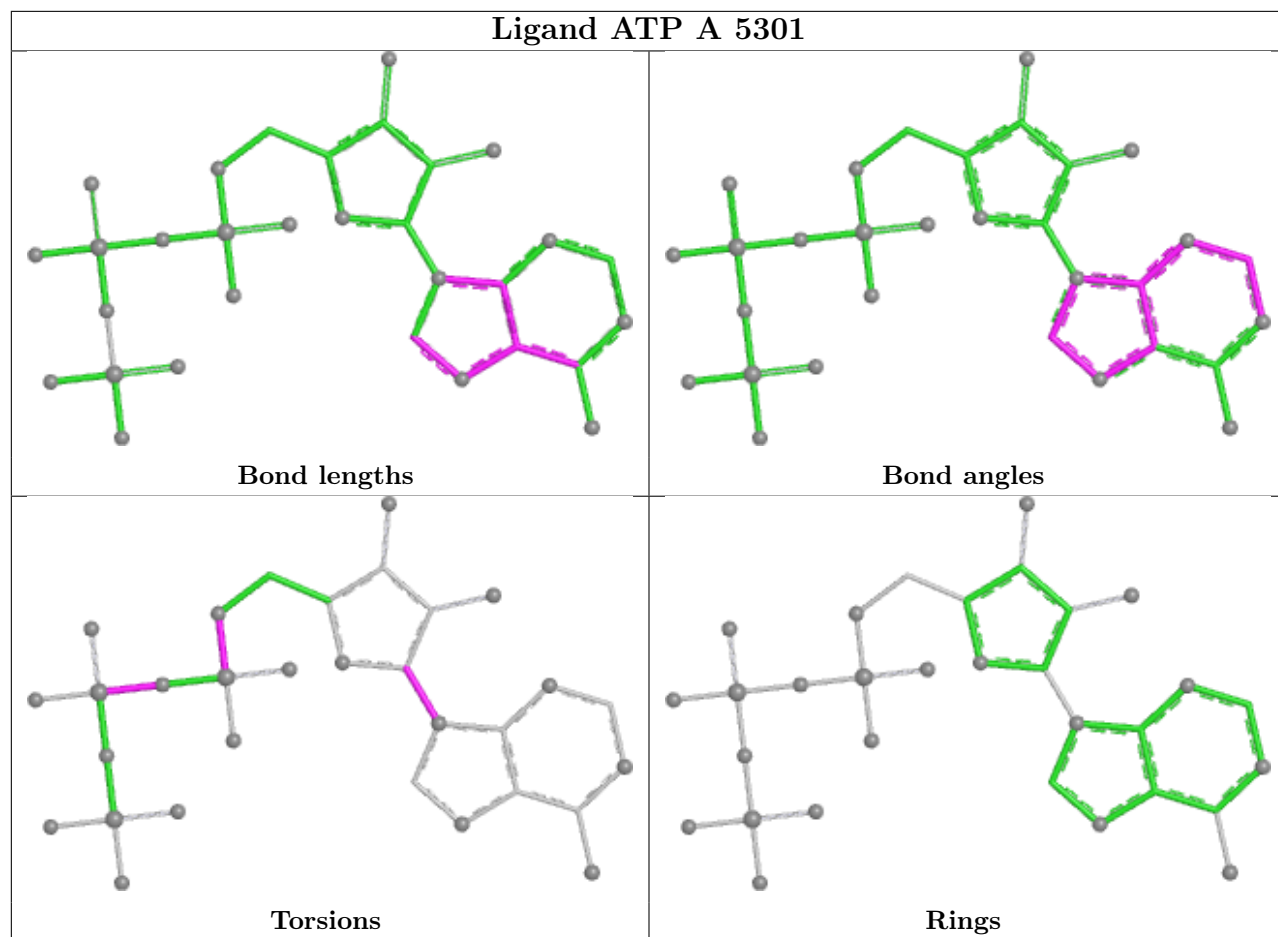
4 monomers are involved in 8 short contacts:

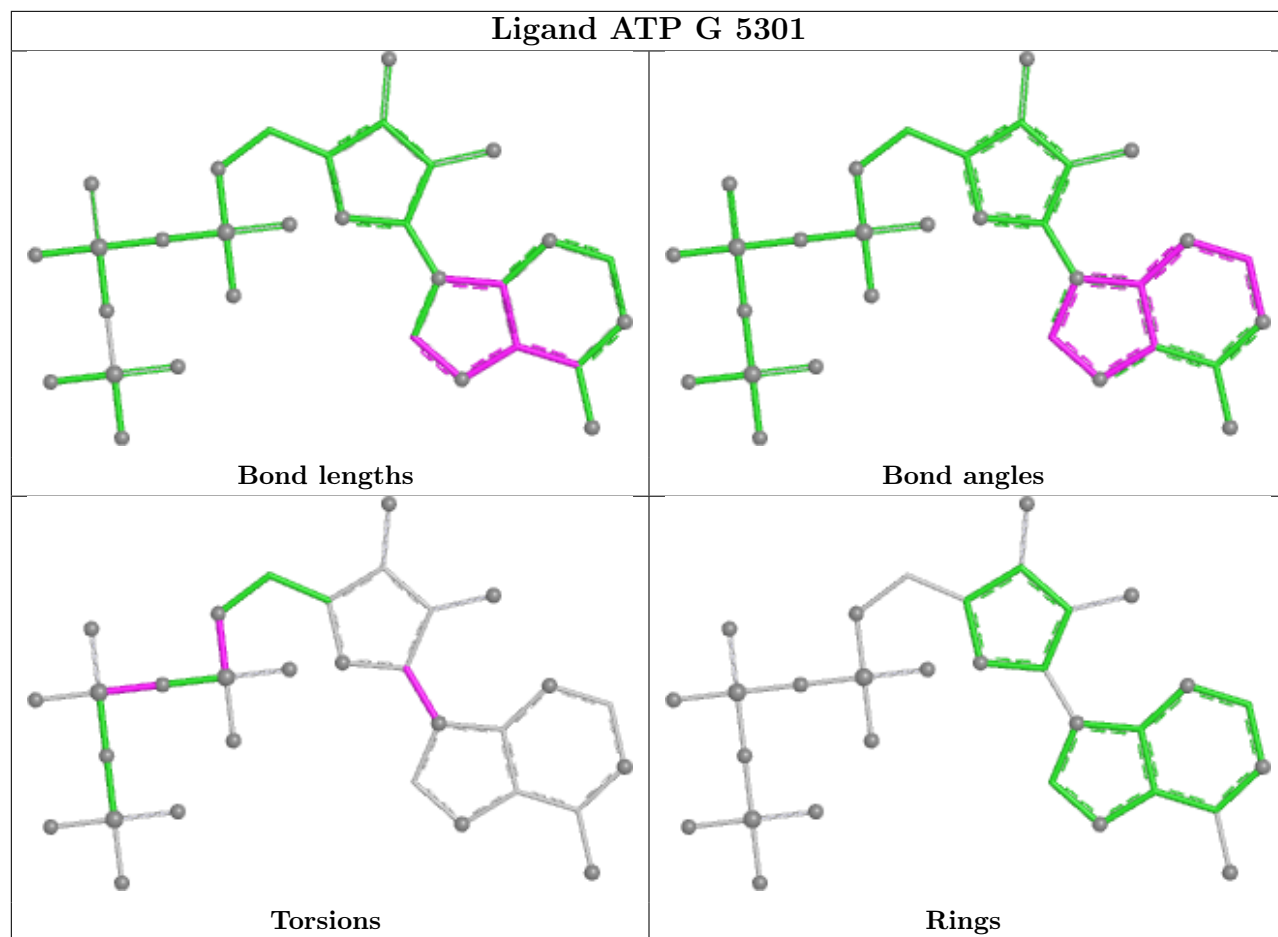
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	5301	ATP	2	0
3	A	5301	ATP	2	0
3	G	5301	ATP	2	0
3	I	5301	ATP	2	0

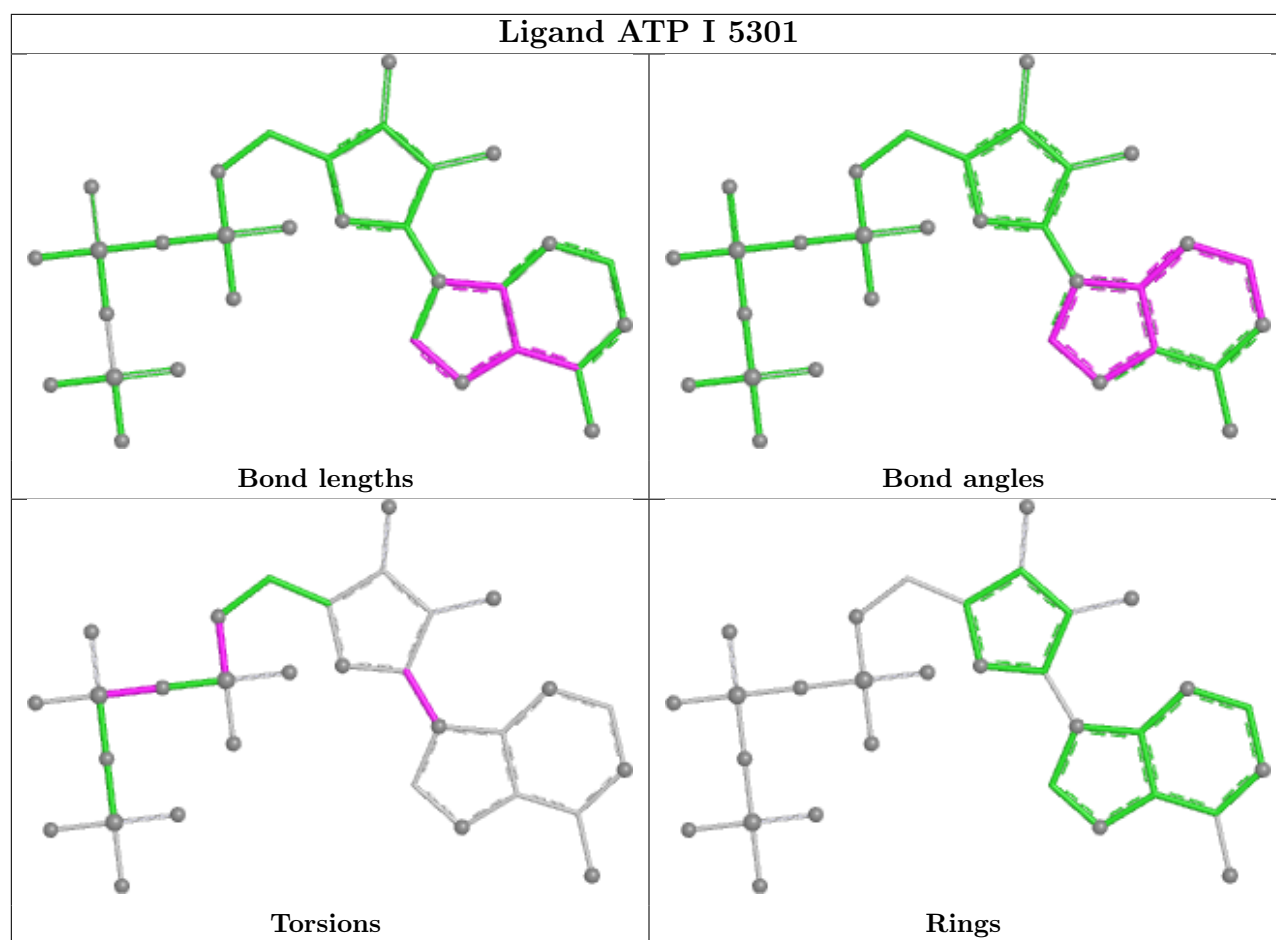
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths,

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.

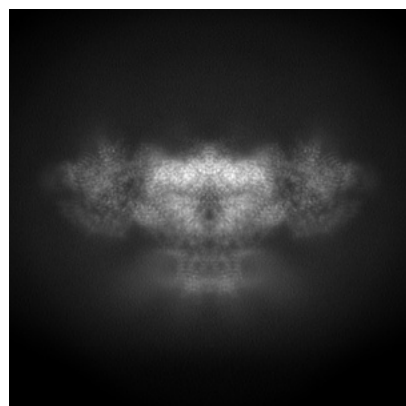
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23692. These allow visual inspection of the internal detail of the map and identification of artifacts.

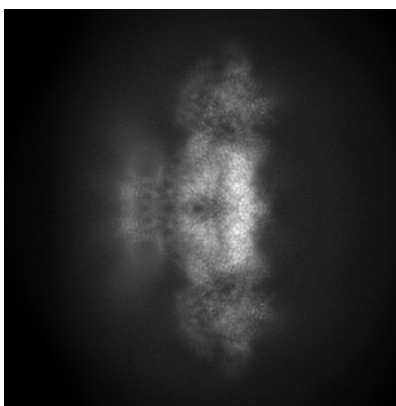
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

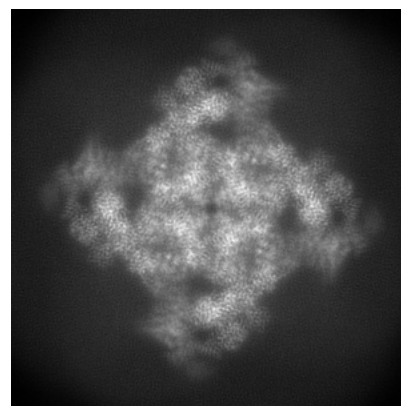
6.1.1 Primary map



X

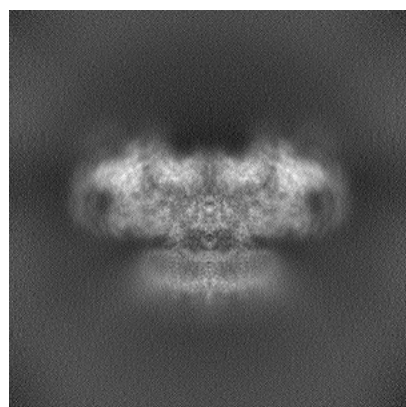


Y

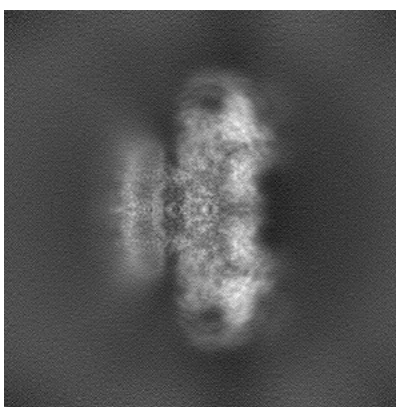


Z

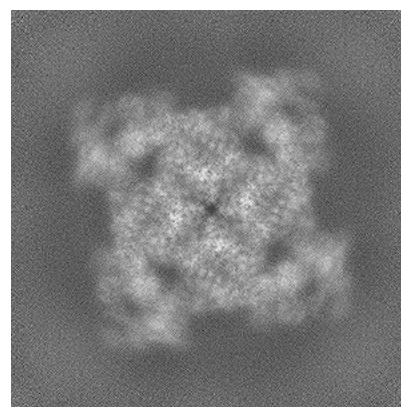
6.1.2 Raw map



X



Y

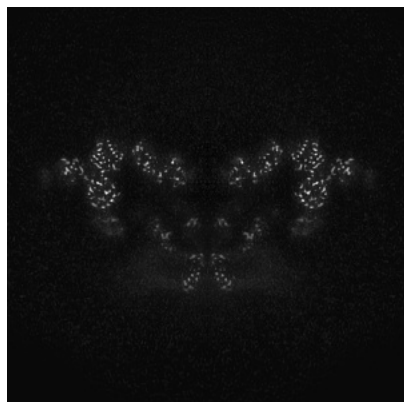


Z

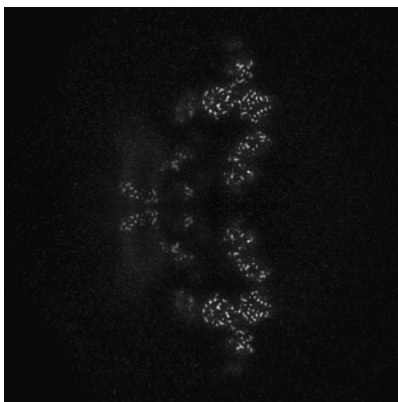
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

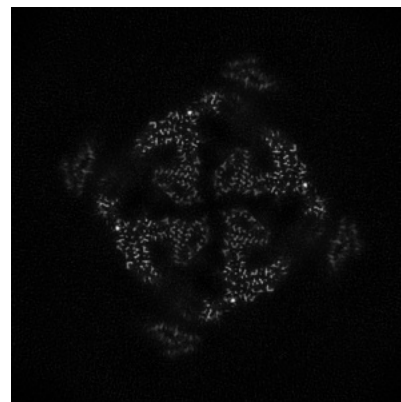
6.2.1 Primary map



X Index: 256

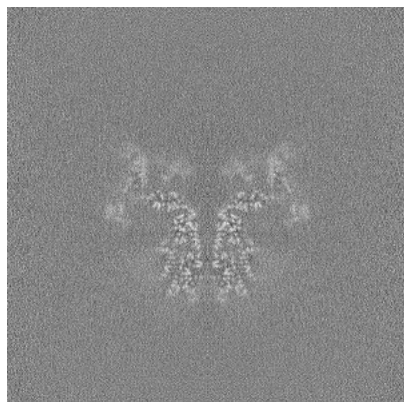


Y Index: 256

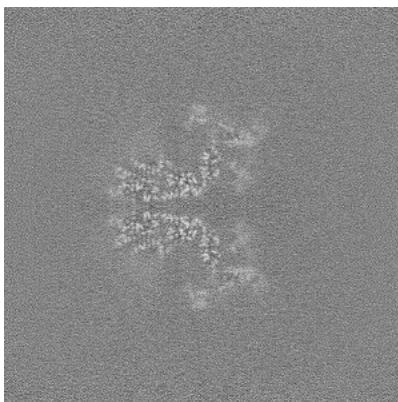


Z Index: 256

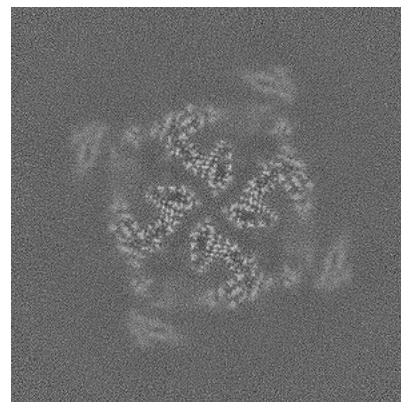
6.2.2 Raw map



X Index: 256



Y Index: 256

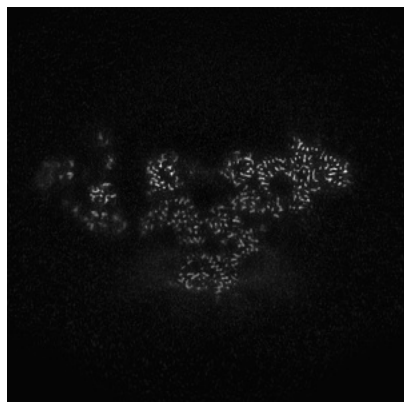


Z Index: 256

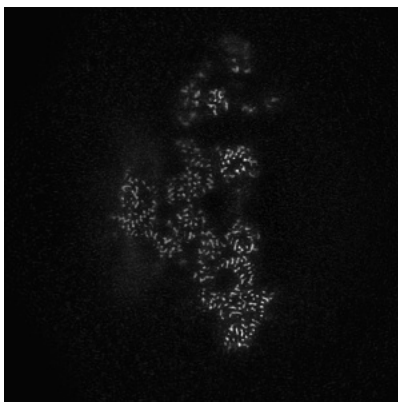
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

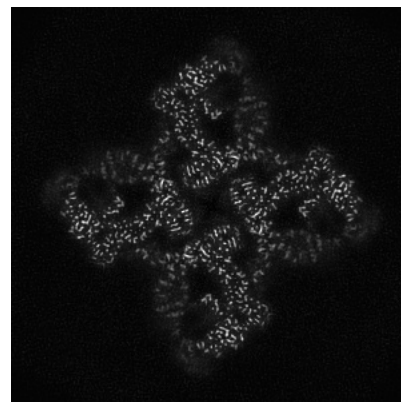
6.3.1 Primary map



X Index: 236

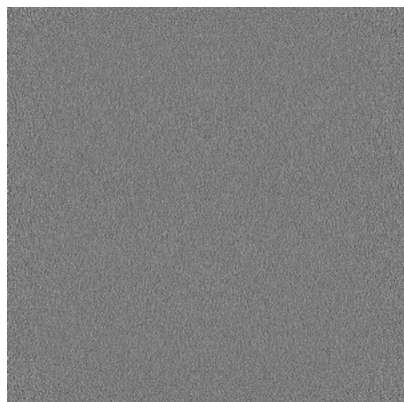


Y Index: 236

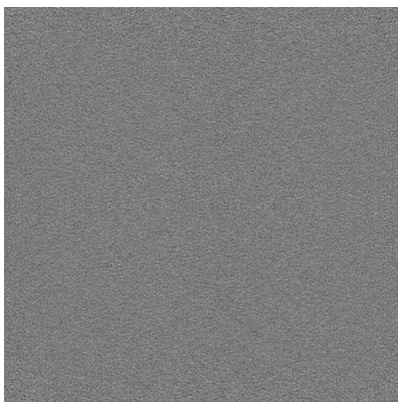


Z Index: 304

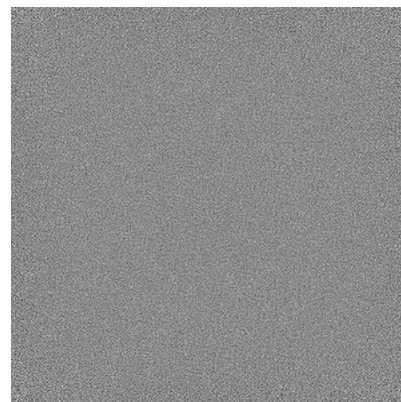
6.3.2 Raw map



X Index: 0



Y Index: 0

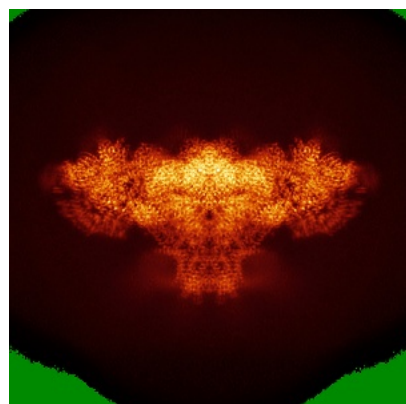


Z Index: 0

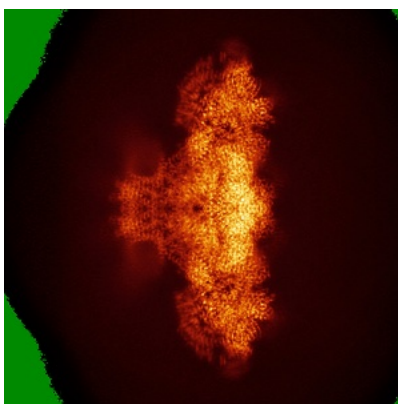
The images above show the largest variance slices of the map in three orthogonal directions.

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

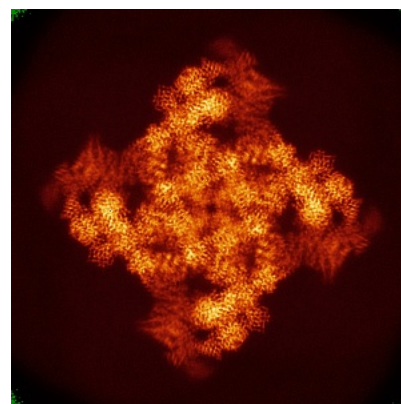
6.4.1 Primary map



X

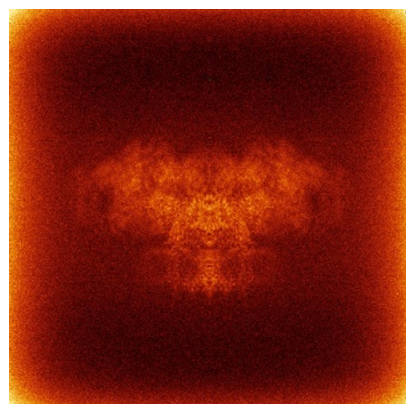


Y

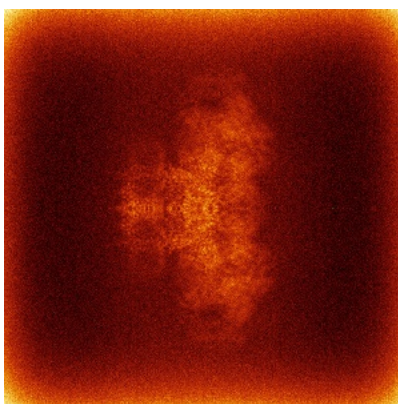


Z

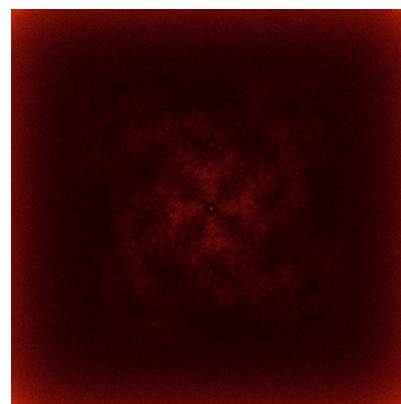
6.4.2 Raw map



X



Y

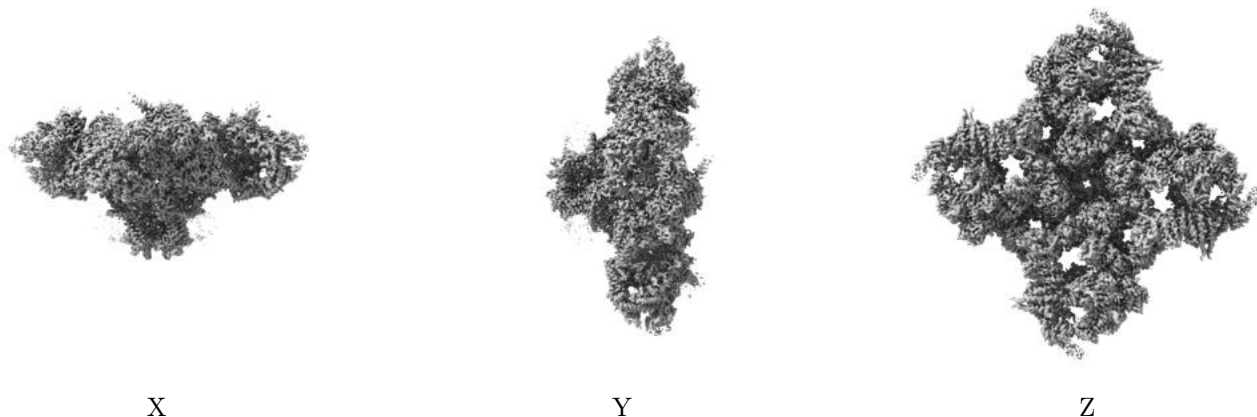


Z

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

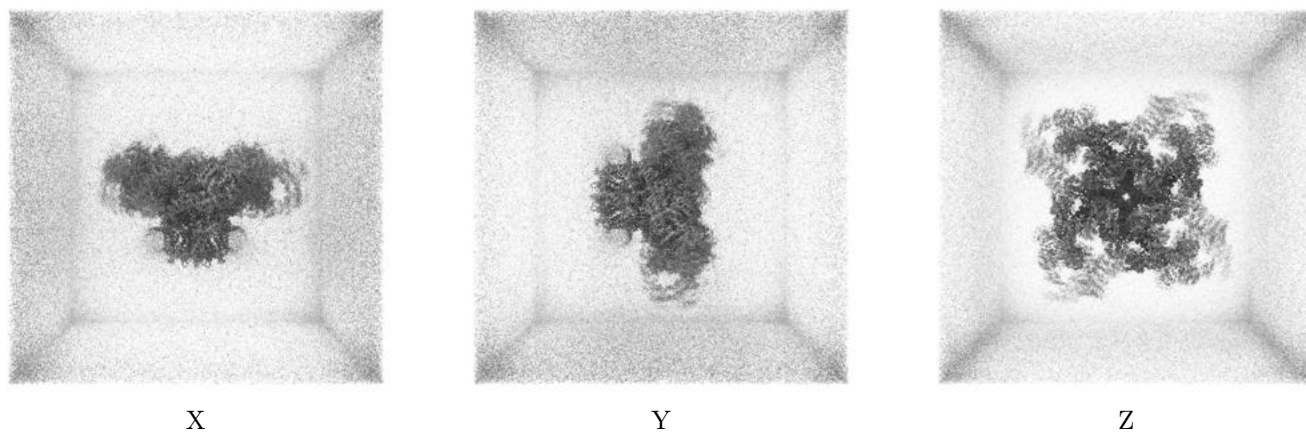
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.121. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

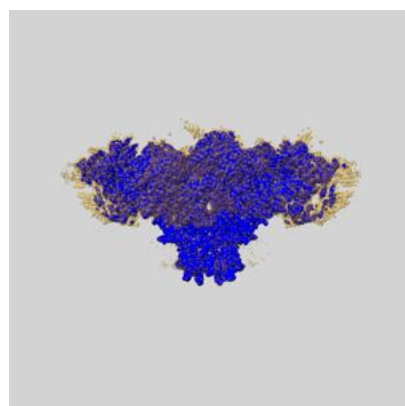
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

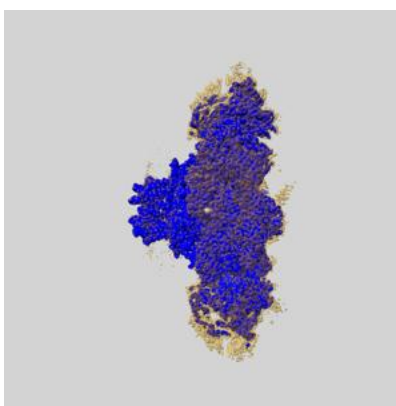
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

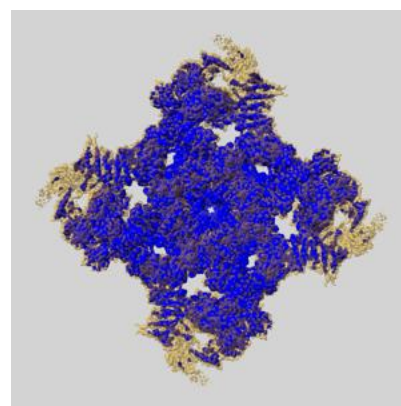
6.6.1 emd_23692_msk_1.map [i](#)



X



Y

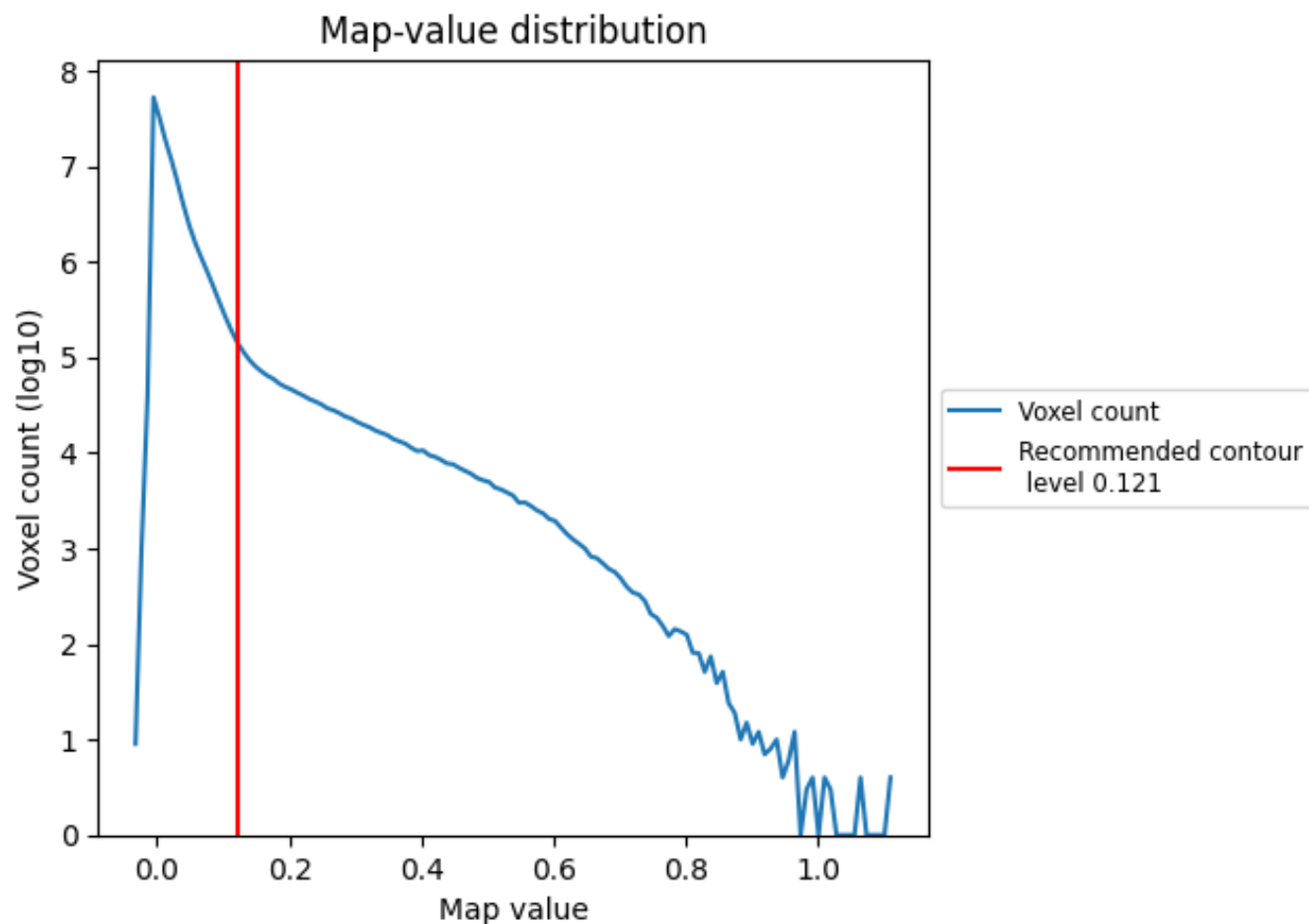


Z

7 Map analysis [i](#)

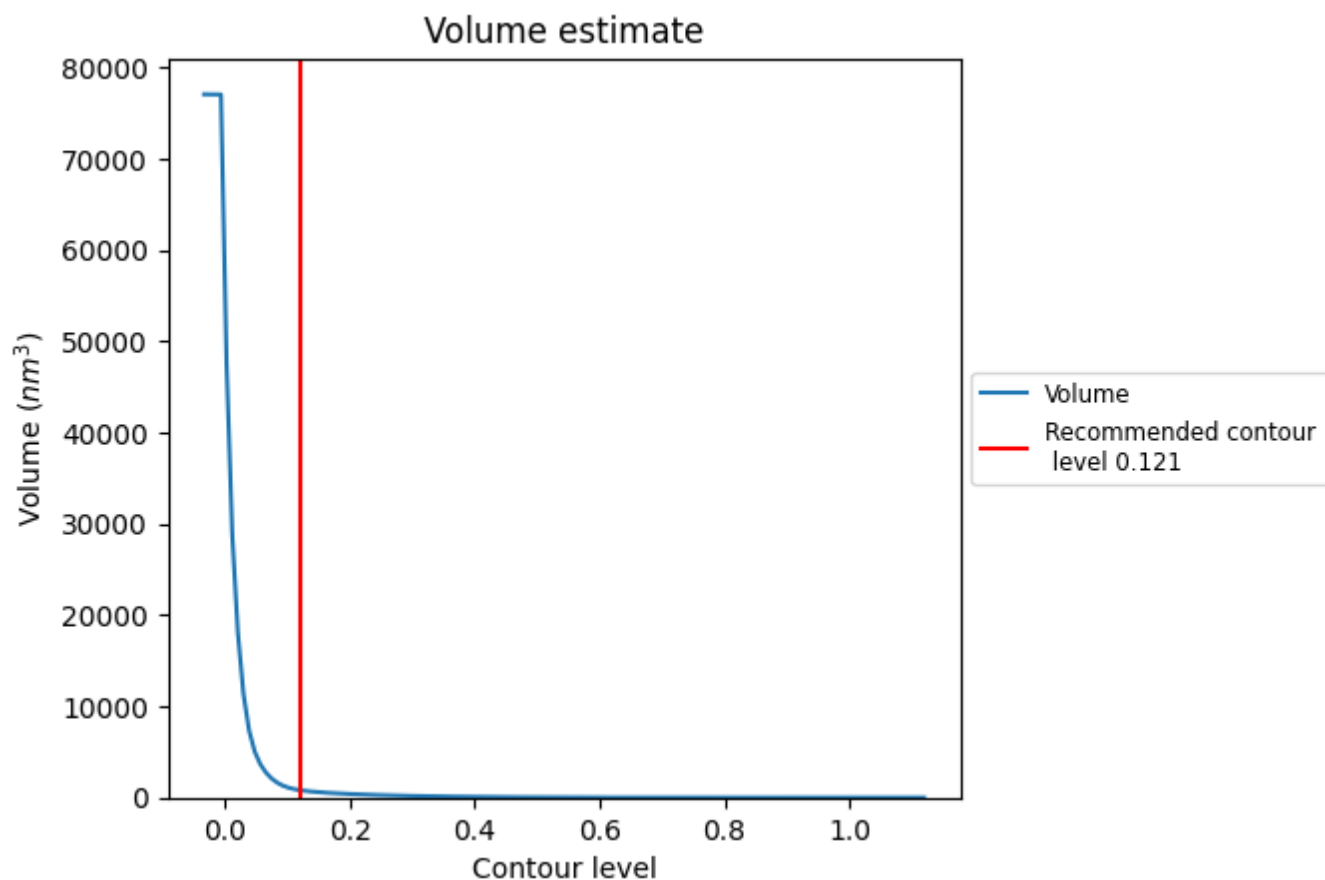
This section contains the results of statistical analysis of the map.

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.

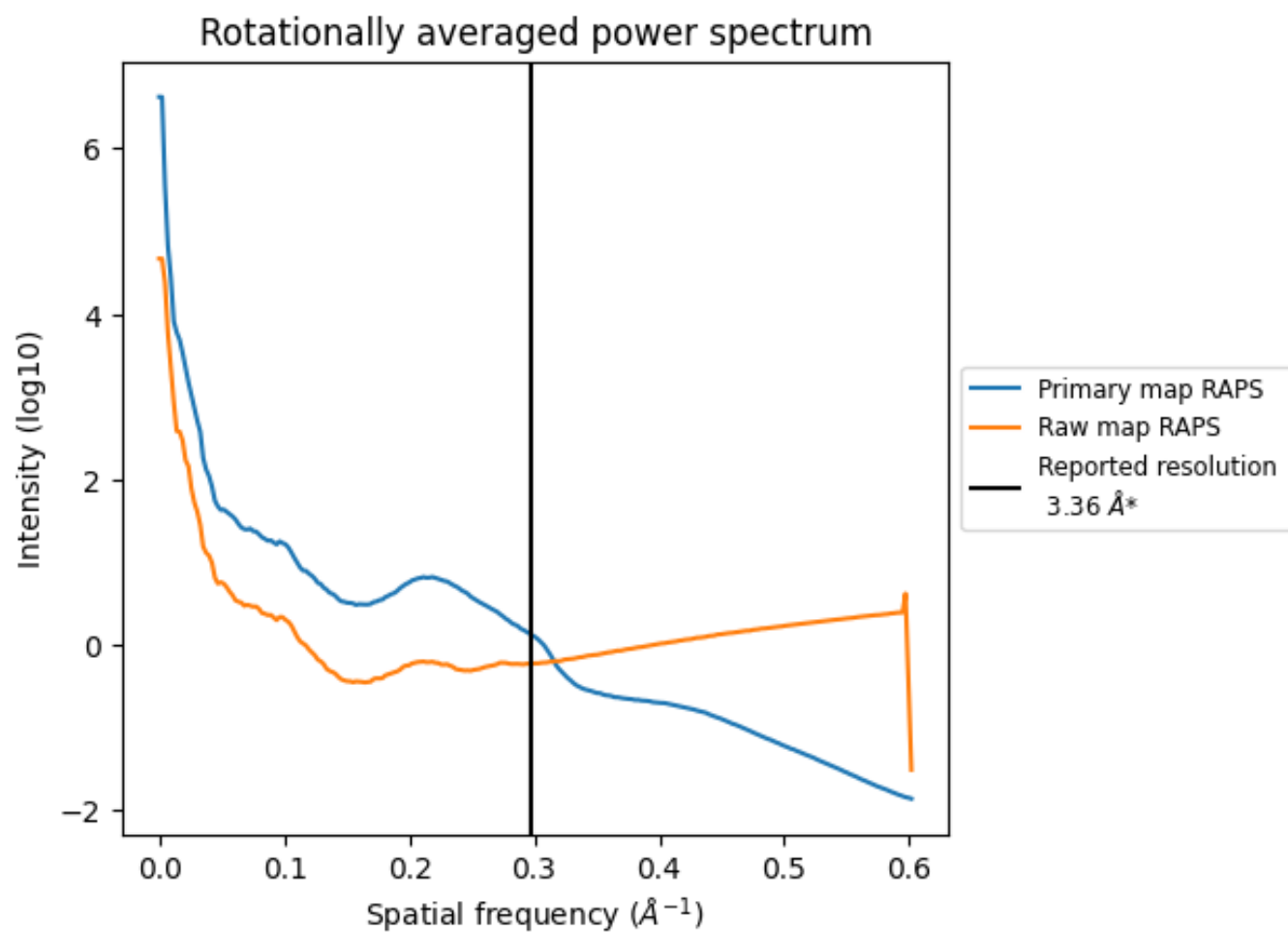
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 808 nm³; this corresponds to an approximate mass of 730 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)

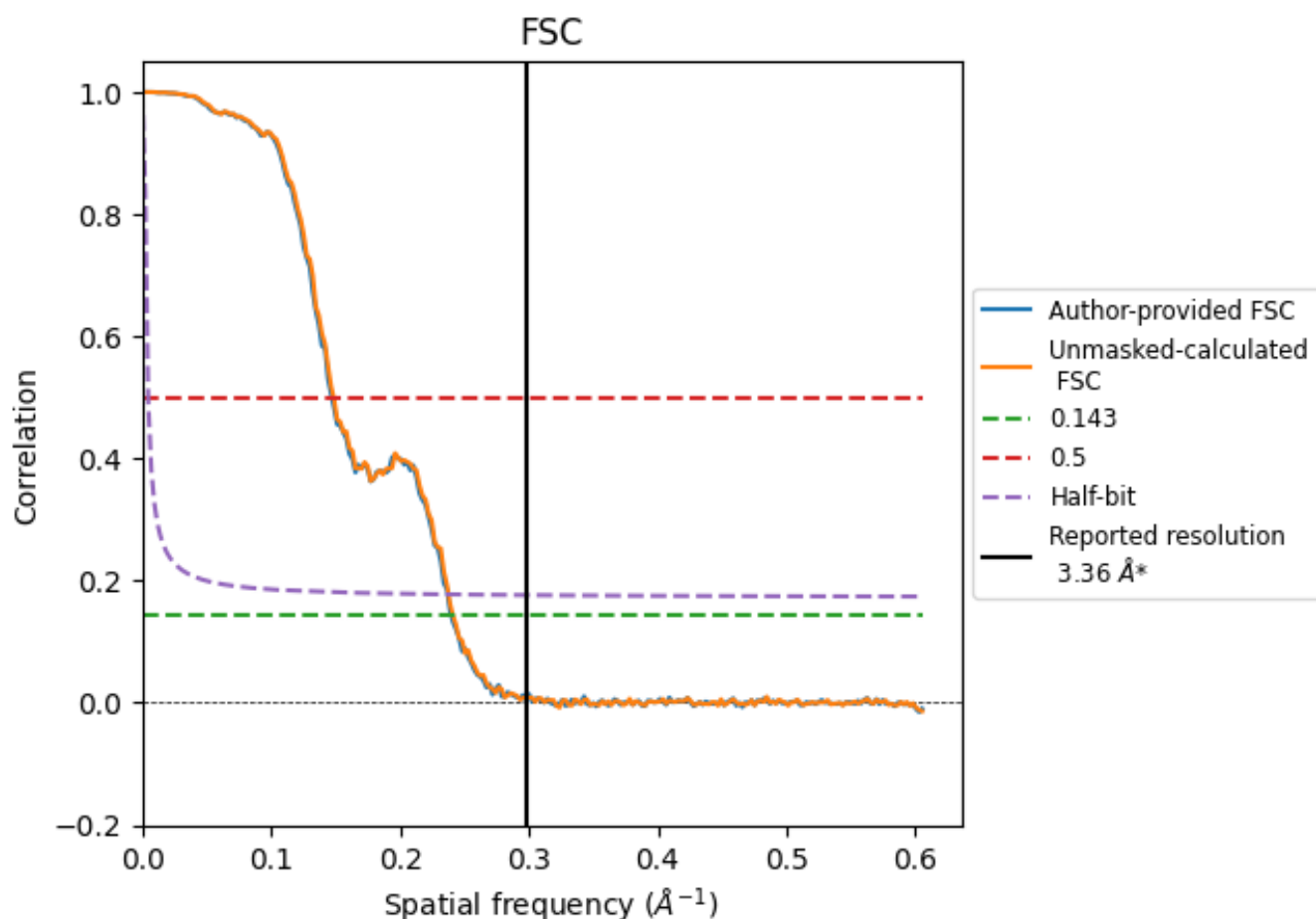


*Reported resolution corresponds to spatial frequency of 0.298 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.298 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.36	-	-
Author-provided FSC curve	4.17	6.79	4.22
Unmasked-calculated*	4.15	6.73	4.21

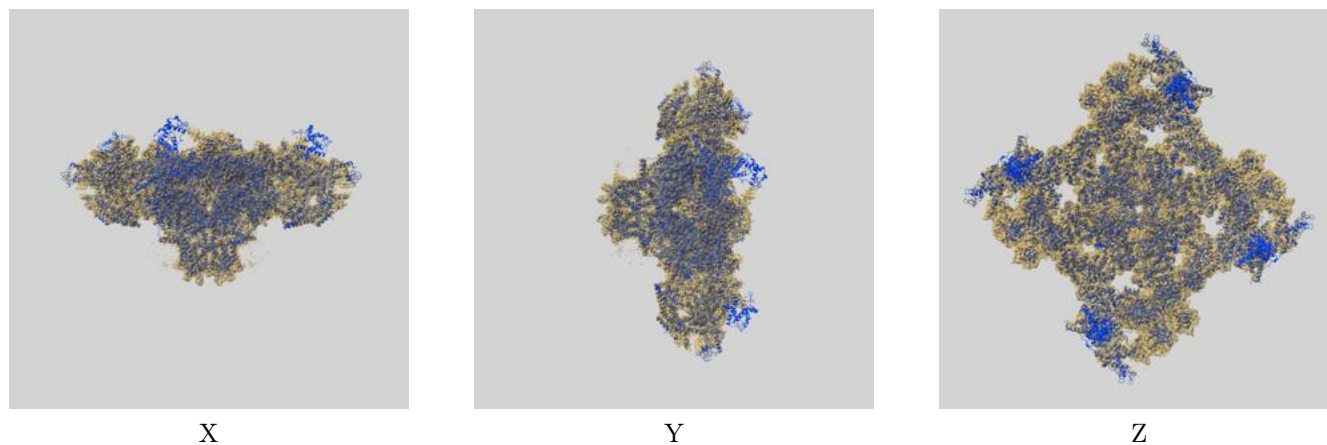
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 4.17 differs from the reported value 3.36 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.15 differs from the reported value 3.36 by more than 10 %

9 Map-model fit [i](#)

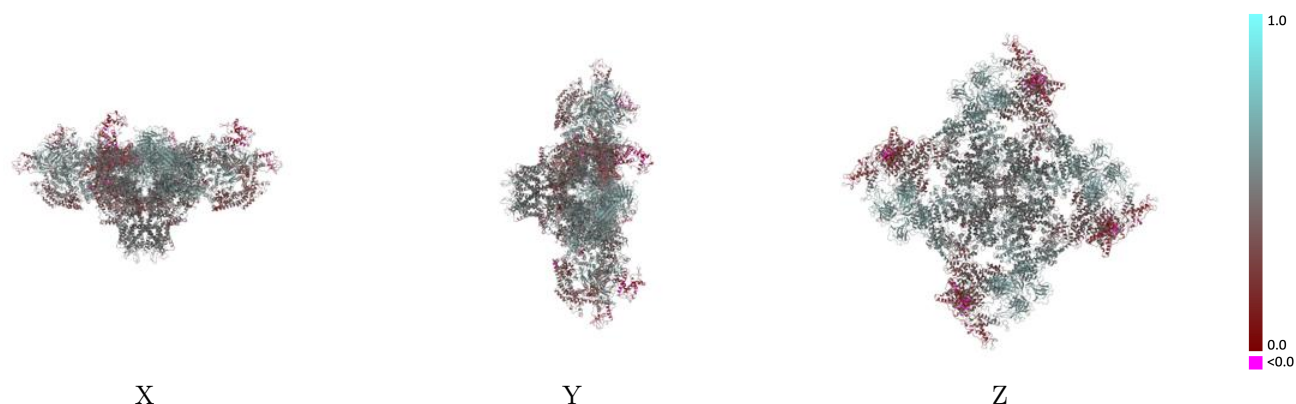
This section contains information regarding the fit between EMDB map EMD-23692 and PDB model 7M6A. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



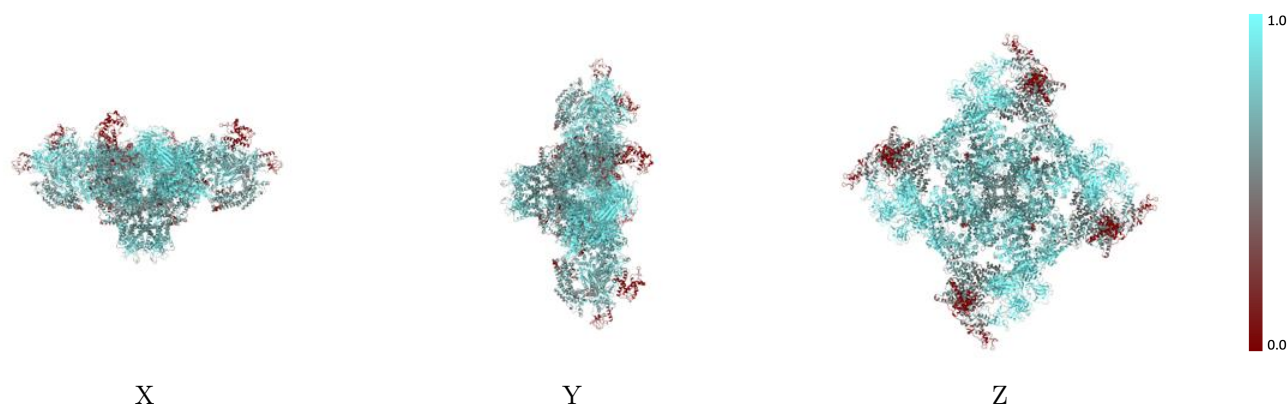
The images above show the 3D surface view of the map at the recommended contour level 0.121 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



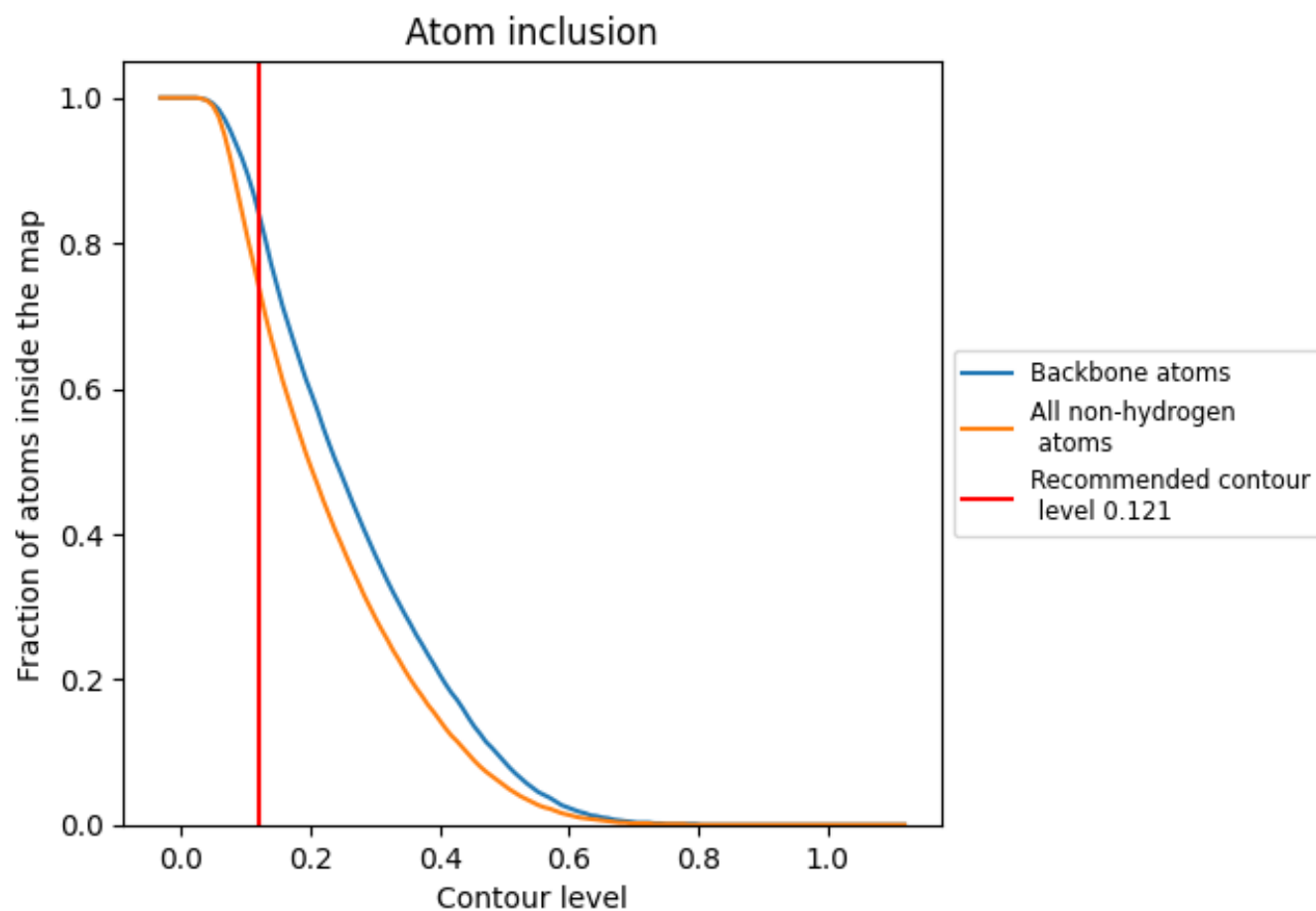
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.121).

9.4 Atom inclusion [i](#)



At the recommended contour level, 84% of all backbone atoms, 74% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.121) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7350	0.4570
A	0.7320	0.4580
B	0.7300	0.4530
F	0.8820	0.5530
G	0.7320	0.4540
H	0.8670	0.5530
I	0.7310	0.4530
J	0.8780	0.5500
O	0.8820	0.5520

