



Full wwPDB EM Validation Report ⓘ

Jul 14, 2024 – 03:42 pm BST

PDB ID : 8BHY
EMDB ID : EMD-16074
Title : DNA-PK Ku80 mediated dimer bound to PAXX and XLF
Authors : Hardwick, S.W.; Chaplin, A.K.
Deposited on : 2022-11-01
Resolution : 5.33 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

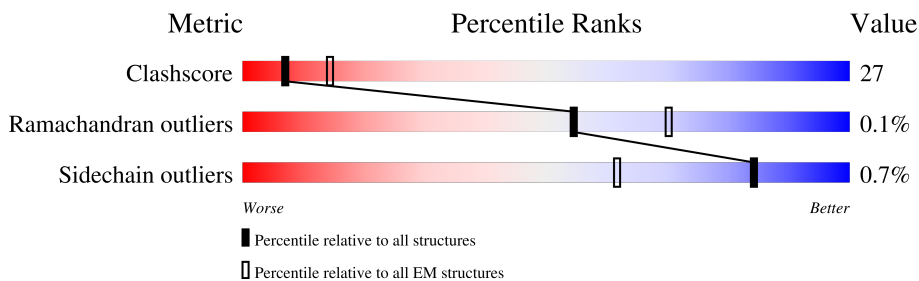
EMDB validation analysis : 0.0.1.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

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 5.33 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	4128	
1	S	4128	
2	B	609	
2	T	609	
3	C	732	
3	L	732	
4	D	204	
4	M	204	

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Mol	Chain	Length	Quality of chain
5	G	336	<p>50% 44% 15% 40%</p>
5	H	336	<p>47% 41% 17% 42%</p>
5	P	336	<p>56% 49% 11% 40%</p>
5	Q	336	<p>55% 43% 14% 42%</p>
6	I	911	<p>11% 17% 9% 73%</p>
6	R	911	<p>22% 18% 9% 73%</p>
7	d	25	<p>80% 20%</p>
8	e	27	<p>89% 11%</p>
9	i	26	<p>100%</p>
10	j	24	<p>92% 8%</p>
11	f	299	<p>98%</p>
11	m	299	<p>98%</p>

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 90193 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 DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	3547	Total	C	N	O	S	0	0
			28300	18182	4780	5151	187		
1	S	3538	Total	C	N	O	S	0	0
			28342	18207	4793	5154	188		

- Molecule 2 is a protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	507	Total	C	N	O	S	0	0
			4085	2614	693	760	18		
2	T	502	Total	C	N	O	S	0	0
			4037	2587	680	752	18		

- Molecule 3 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	668	Total	C	N	O	S	0	0
			5318	3397	892	1003	26		
3	L	652	Total	C	N	O	S	0	0
			5204	3324	876	979	25		

- Molecule 4 is a protein called Protein PAXX.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	147	Total	C	N	O	S	0	0
			1102	702	190	204	6		
4	M	164	Total	C	N	O	S	0	0
			1219	767	210	236	6		

- Molecule 5 is a protein called DNA repair protein XRCC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	G	201	Total	C	N	O	S	0	0
			1628	1031	278	312	7		
5	H	194	Total	C	N	O	S	0	0
			1589	1009	271	302	7		
5	P	201	Total	C	N	O	S	0	0
			1622	1028	275	312	7		
5	Q	194	Total	C	N	O	S	0	0
			1580	1003	268	302	7		

- Molecule 6 is a protein called DNA ligase 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	I	246	Total	C	N	O	S	0	0
			1984	1262	336	373	13		
6	R	246	Total	C	N	O	S	0	0
			1970	1252	335	371	12		

- Molecule 7 is a DNA chain called DNA (25-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
7	d	25	Total	C	N	O	P	0	0
			516	249	87	155	25		

- Molecule 8 is a DNA chain called DNA (27-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
8	e	27	Total	C	N	O	P	0	0
			554	267	102	158	27		

- Molecule 9 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
9	i	26	Total	C	N	O	P	0	0
			532	257	97	152	26		

- Molecule 10 is a DNA chain called DNA (5'-D(P*AP*AP*TP*AP*AP*TP*AP*GP*TP*T
P*TP*TP*TP*AP*GP*TP*TP*TP*AP*TP*TP*GP*GP*G)-3').

Mol	Chain	Residues	Atoms					AltConf	Trace
10	j	24	Total	C	N	O	P	0	0
			497	240	84	149	24		

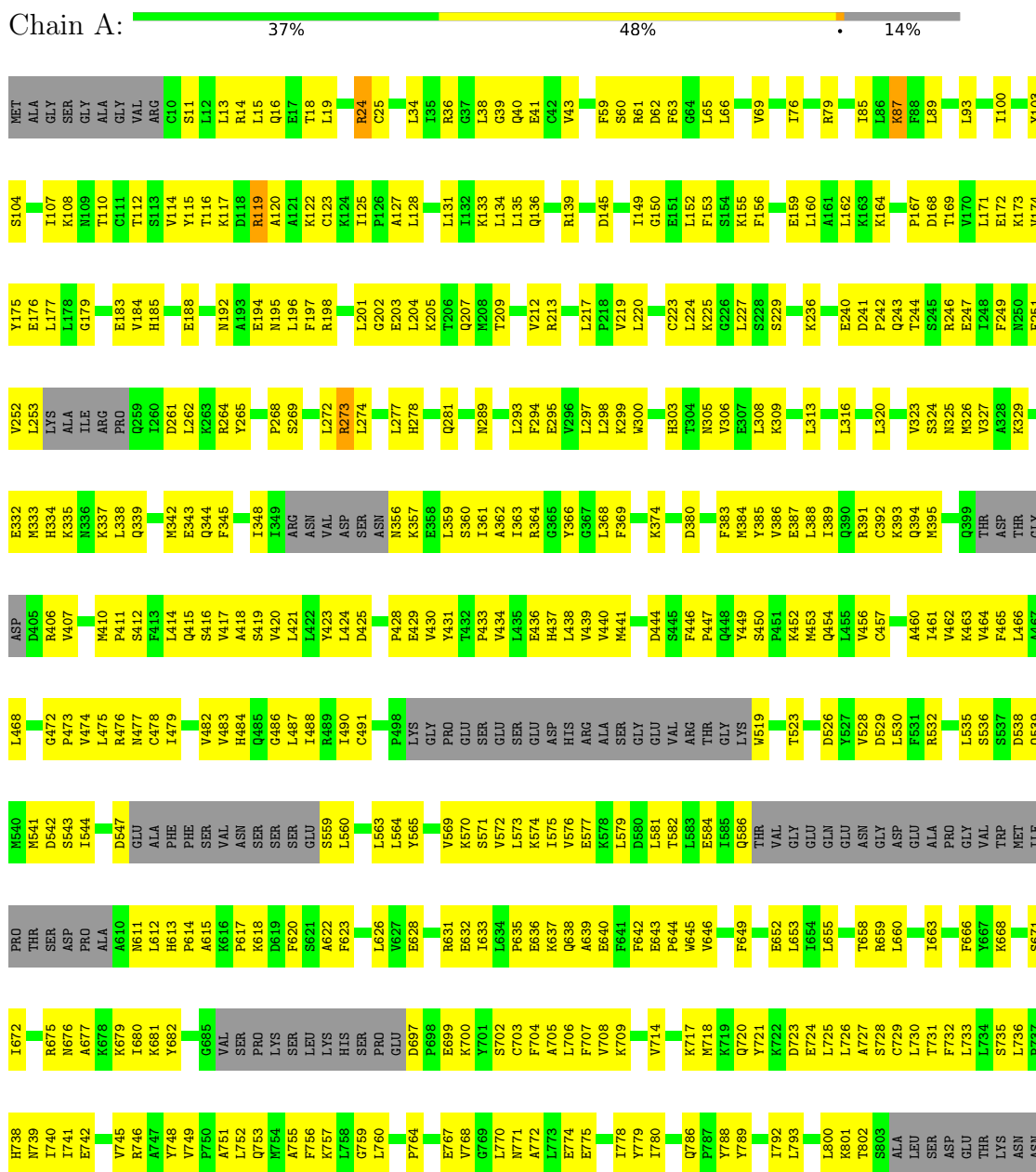
- Molecule 11 is a protein called Non-homologous end-joining factor 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
11	f	7	57	37	11	9	0	0
11	m	7	57	37	11	9	0	0

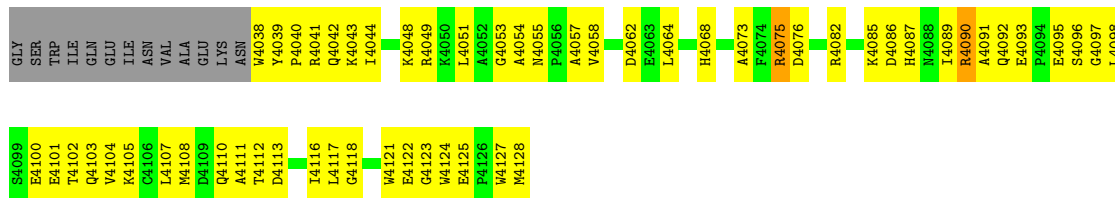
3 Residue-property plots [i](#)

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

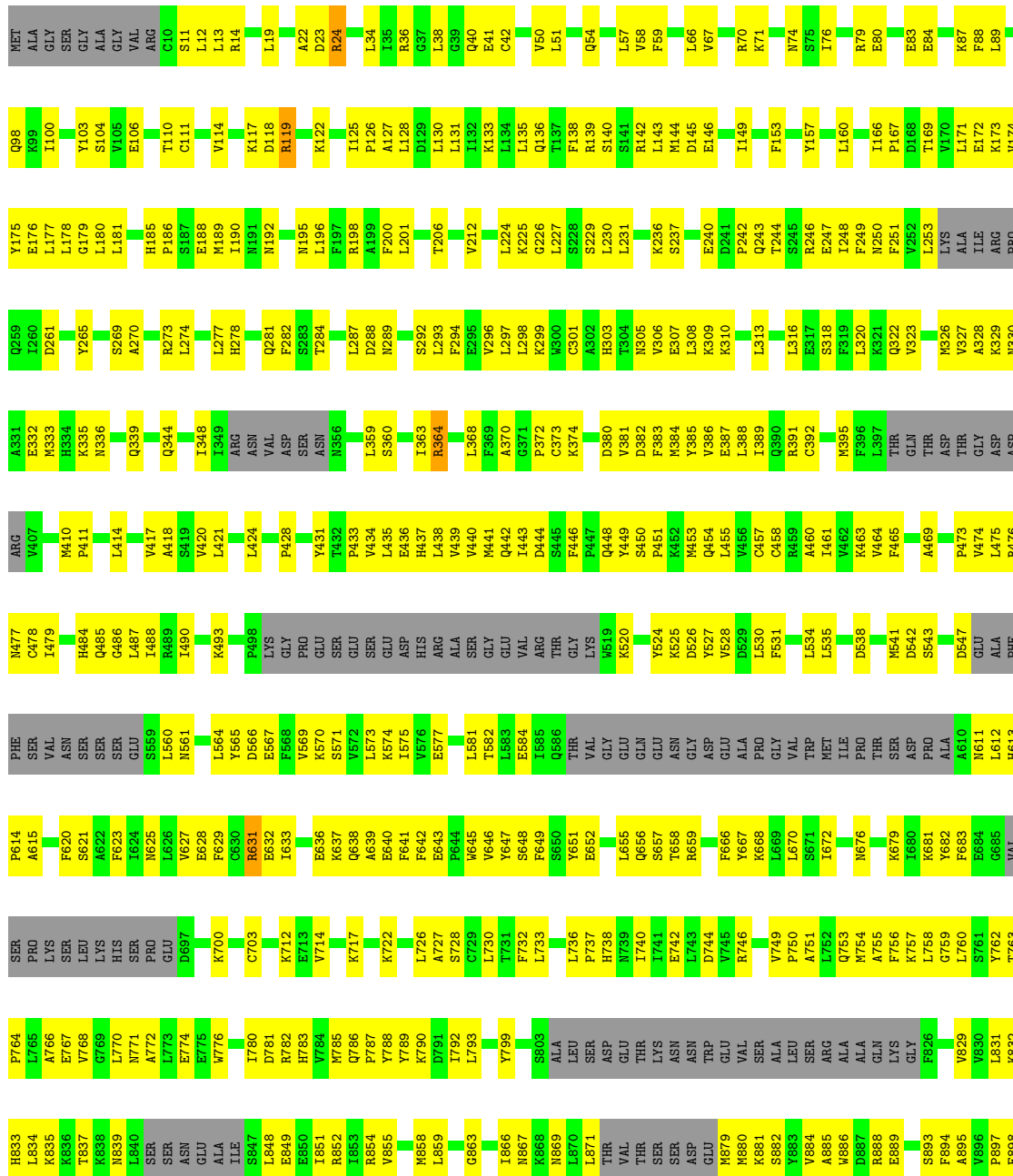
- Molecule 1: DNA-dependent protein kinase catalytic subunit



L2794	ALA	L2794	LEU	S2599	R2522	P2444	F2378	V2315	L2249	ASX	SER	L1959	HIS
Q2795	ALA	R2523	THR	T2600	R2524	K2445	M2379	Y2316	S2250	R2090	ASP	K1960	ALA
A2796	R2721	F2524	GLY	V2601	L2446	L2446	M2380	A2317	P2251	M2094	GLY	Y1961	LYS
R2800	R2722	W2525	SER	T2602	L2454	A2318	F2383	A2319	P2252	L2097	SER	F1962	GLY
Q2805	D2723	S2526	THR	T2603	L2455	A2319	F2384	A2320	R2253	L2100	TYR	Q1963	LYS
I2804	T2724	H2527	ASP	PRO	L2456	E2321	L2385	Q2170	R2254	V2101	MET	PHE	ILE
A2805	R2727	E2528	PRO	THR	V2458	V2322	L2386	A2172	L2256	L2100	SER	LEU	ASN
L2808	R2731	R2529	LEU	VAL	H2464	L2323	P2387	A2173	F2257	V2101	SER	PHE	GLN
L2809	L2531	R2530	VAL	THR	Q2464	G2324	K2388	N2176	E2258	K2102	SER	GLU	VAL
L2810	F2732	L2531	ASP	GLU	P2465	F2389	L2388	N2177	K2259	H2103	SER	LEU	PHE
S2811	M2733	P2532	THR	GLN	S2466	H2390	H2390	N2178	F2260	M2104	TYR	LYS	HIS
R2812	R2734	R2533	THR	ALA	T2467	G2391	G2391	GLY	F2261	H2105	LEU	PRO	GLY
L2813	E2737	M2534	SER	SER	T2468	V2392	V2392	G2179	G2262	R2106	GLU	GLU	SER
M2820	R2741	D2537	PRO	GLN	C2469	L2393	L2393	E2190	K2263	S2107	LYS	LYS	CYS
F2823	K2746	L2538	PRO	GLY	R2470	V2330	V2330	E2190	S2263	L2108	CYS	ILE	LYS
K2824	G2747	R2539	SER	GLY	R2471	M2331	M2331	N2185	S2267	PRO	THR	LEU	THR
L2826	A2749	L2539	ASP	LEU	Q2472	L2396	L2396	N2189	K2268	PRO	GLU	LEU	GLU
S2827	E2750	A2541	SER	GLN	M2473	C2397	C2397	I2189	D2269	GLY	ILE	ILE	GLY
E2828	K2748	S2544	LEU	THR	I2476	L2398	L2398	W2196	D2269	GLN	PHE	PHE	N1909
L2829	G2749	L2545	ARG	ARG	L2477	E2399	E2399	A2200	M2270	GLY	GLU	GLU	T1912
N2830	A2749	Y2546	PHE	THR	M2478	V2400	V2400	A2200	S2271	GLU	ASN	ASN	L1915
N2831	E2751	S2547	ALA	ALA	L2478	W2401	W2401	A2200	G2273	GLU	LEU	LEU	L1916
ALA	Q2751	R2548	HIS	GLN	V2479	L2402	L2402	V2205	G2273	ASP	ASP	ASP	K1917
GLU	K2752	K2549	LYS	GLY	I2480	C2403	C2403	V2206	I2274	SER	TYR	TYR	L1918
PRO	R2753	L2550	ARG	SER	H2481	R2404	R2404	F2206	G2275	VAL	VAL	VAL	L1919
ALA	E2756	I2550	SER	LEU	D2482	V2405	V2405	K2207	L2276	PRO	ARG	ARG	C1919
LYS	E2760	H2553	GLY	LEU	M2483	M2408	M2408	K2208	L2277	R2120	SER	SER	C1919
ARG	E2760	L2553	ARG	ALA	R2485	T2409	T2409	E2209	G2278	D2121	GLN	GLN	D1920
VAL	M2763	S2556	ARG	ALA	R2486	E2410	E2410	E2209	I2279	D2122	ASP	ASP	D1921
GLY	D2766	L2557	GLN	TRP	PRO	L2411	L2411	A2212	V2280	P2123	PRO	PRO	A1922
LYS	D2766	L2557	ALA	VAL	GLU	L2412	L2412	N2213	M2281	S2124	ARG	PHE	F1923
ALA	M2768	M2560	ALA	VAL	SER	Q2413	Q2413	R2214	A2282	W2125	PRO	PRO	T1924
ALA	D2768	L2561	PRO	ALA	GLU	F2414	F2414	R2215	K2283	M2126	VAL	VAL	E1925
ALA	E2769	L2562	LEU	GLY	GLU	L2415	L2415	L2216	L2285	F2128	GLY	GLY	N1926
ALA	V2770	L2563	LYS	ILE	D2492	K2418	K2418	N2217	L2288	L2129	ARG	GLU	ALA
ALA	L2771	E2564	VAL	ARG	M2493	D2419	D2419	F2218	Y2288	V2138	VAL	VAL	GLY
ALA	T2772	M2565	GLY	ARG	D2494	F2420	F2420	L2219	Q2291	P2139	ARG	PRO	GLY
ALA	R2773	M2565	THR	THR	S2495	M2424	M2424	H2222	C2292	L2140	ARG	PRO	ASN
ALA	S2774	Y2572	THR	GLN	Q2496	R2424	R2424	V2222	G2292	L2140	GLU	GLU	GLN
ALA	R2775	P2573	ASP	GLN	E2497	E2357	E2357	V2223	L2294	N2141	GLU	GLU	LEU
ALA	R2776	M2574	PHE	GLN	I2498	D2358	D2358	F2224	Q2295	L2142	GLN	ARG	LEU
ALA	H2777	P2575	GLY	GLN	F2499	K2359	K2359	H2225	Q2295	R2143	GLN	LYS	L1934
ALA	G2778	R2576	LYS	HIS	K2500	F2360	F2360	F2226	E2298	L2144	ARG	LYS	E1935
ALA	D2779	F2577	ASP	PHE	K2503	D2428	D2428	K2227	Q2298	F2145	ASP	LYS	L1940
ALA	L2780	E2578	ARG	THR	D2504	E2430	E2430	R2228	A2302	L2146	PRO	THR	Y1940
ALA	P2781	L2581	LEU	THR	V2505	R2431	R2431	A2229	L2303	A2147	THR	ILE	H1941
ALA	D2782	L2581	GLY	LEU	L2506	Q2432	Q2432	V2230	L2303	VAL	VAL	GLU	N1946
ALA	I2783	C2584	PRO	GLN	L2507	K2433	K2433	F2231	V2304	I2151	ASP	ILE	C1947
ALA	Q2784	E2585	THR	THR	L2507	V2434	V2434	R2232	M2305	I2151	ASP	ASP	A1948
ALA	I2785	E2585	ASP	ALA	L2510	C2435	C2435	H2233	M2306	E2154	VAL	VAL	A1949
ALA	K2786	F2586	ASP	ALA	L2511	L2436	L2436	R2233	M2306	E2155	VAL	VAL	A1949
ALA	H2787	Q2587	ASP	GLY	L2512	D2437	D2437	N2234	M2307	E2156	VAL	VAL	A1950
ALA	S2788	R2594	VAL	GLY	E2513	L2438	L2438	L2235	F2309	V2156	GLU	GLU	V1951
ALA	S2789	D2594	ASP	ARG	E2513	I2439	I2439	F2239	F2310	F2157	GLU	GLU	A1952
ALA	L2789	R2595	SER	SER	Q2518	V2440	V2440	K2239	R2311	R2158	GLU	GLU	C1953
ALA	I2791	F2596	VAL	PHE	R2518	K2441	K2441	T2240	Y2312	F2159	MET	ALA	C1954
ALA	P2792	R2597	VAL	ASP	L2521	M2442	M2442	L2241	F2313	Y2160	ASP	ASN	V1955
ALA	P2793	R2598	GLY	TRP		M2443	M2443	V2242	E2314	W2164	LEU	ASP	E1958



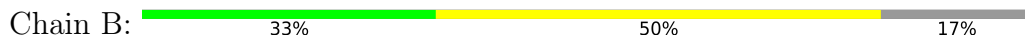
● Molecule 1: DNA-dependent protein kinase catalytic subunit

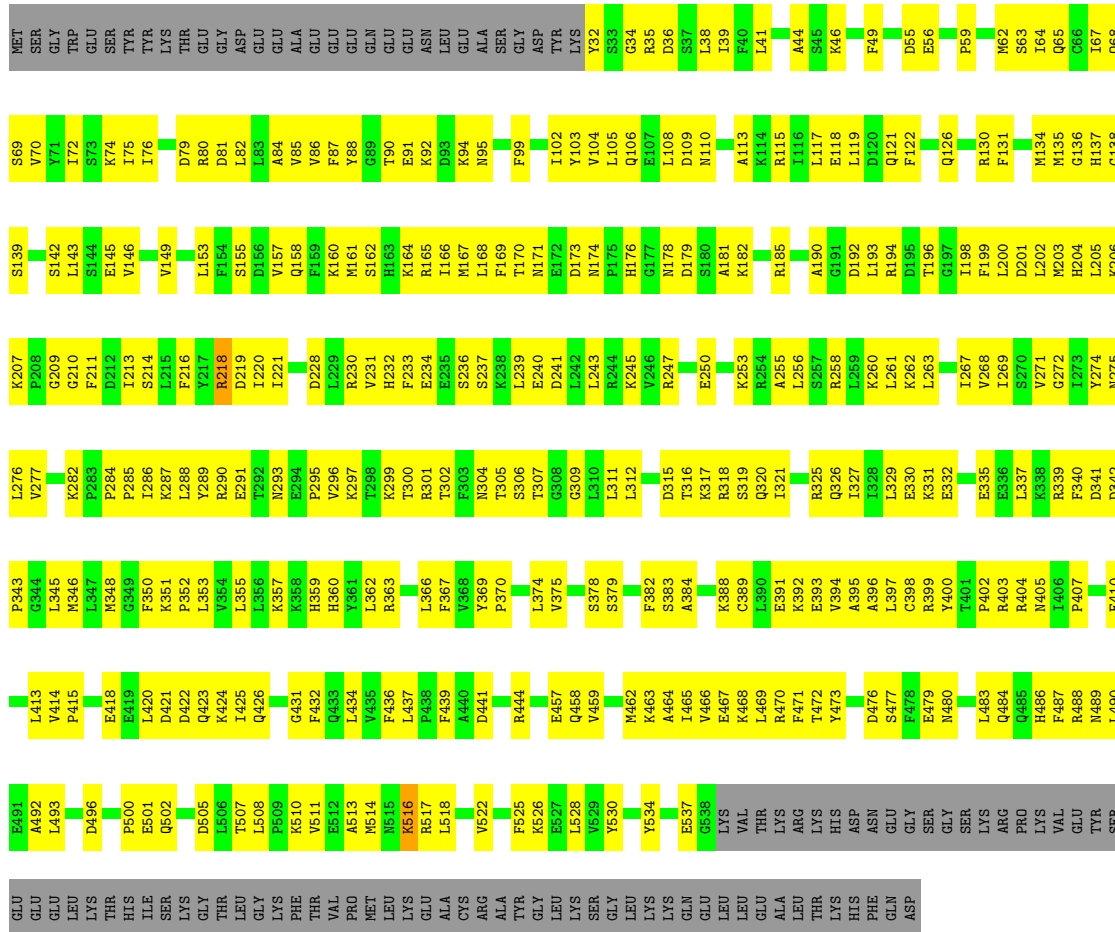


E3038	L2812	G2721	R2522	Y2440	S2308	K2227	L2097	LEU
L3041	I2816	D2723	M2523	K2441	F2309	K2228	L2100	SER
P3042	D2734	T2733	F2524	M2442	F2309	R2228	L2100	TYR
L3043	L2817	D2734	W2525	K2442	P2372	A2229	L2101	LEU
M3044	K2818	L2726	R2530	P2444	P2373	V2230	K2102	ALA
L3045	L2819	R2727	L2531	K2445	L2374	F2231	M2103	ASP
R3046	K2820	L2728	L2532	L2446	D2376	H2233	M2104	S22034
S3047	D2821	R2735	P2533	P2447	R2377	H2234	H2105	Q2042
K3048	K2822	D2734	M2534	K2448	N2380	L2235	H2106	F2043
L3051	F2823	R2735	T2535	L2451	F2383	I2237	S2107	D2044
L3052	K2824	D2735	R2538	R2452	F2384	I2238	L2108	F2045
D3058	L2826	A2749	L2542	P2457	E2321	K2246	GLY	G2048
L3061	S2827	E2750	F2389	E2460	L2323	D2247	PRO	V2049
F3064	K2828	Q2751	L2545	E2461	G2324	C2248	GLN	Q2050
I3065	K2829	R2752	L2548	F2462	L2325	D2249	GLY	SER
I3066	N2830	K2753	P2549	V2463	I2326	R2254	GLU	TYR
K3067	M2831	E2754	K2549	H2464	K2394	F2257	GLU	SER
Q3074	Q2834	E2755	L2550	T2467	V2400	F2260	GLU	TYR
I3077	K2835	I2757	M2551	T2468	E2399	F2261	SER	SER
L3078	L2837	E2760	F2554	C2469	V2400	S2261	GLN	SER
S3087	L2837	E2765	L2555	E2471	R2333	D2264	ASP	ASP
Y3090	F2840	Q2785	S2556	Q2472	R2334	P2265	PRO	ARG
L3091	F2843	R2773	L2557	M2473	M2335	P2266	PRO	ARG
D3095	L2844	S2774	M2560	L2477	L2336	S2267	ALA	ALA
D3097	R2847	R2776	L2563	D2486	R2337	K2268	THR	THR
R3098	F2848	H2777	E2564	PRO	E2339	N2270	GLY	GLY
A3099	S2849	L2780	M2565	GLU	S2340	S2271	ARG	PHE
K3100	F2851	P2781	M2569	GLU	L2341	S2274	ARG	ARG
Y3101	R2854	L2783	S2570	GLU	C2342	I2274	ARG	ARG
Y3102	C2857	Q2784	D2571	THR	E2343	Q2275	GLU	ARG
I3103	K2786	I2785	Y2572	GLN	L2415	L2276	GLN	GLN
Q3104	Q2859	K2787	P2573	GLN	K2416	T2203	ARG	ARG
L3105	Q2864	S2788	L2574	GLN	S2417	G2204	ASP	ASP
G3106	H2865	L2789	M2576	ASP	K2418	V2205	PRO	PRO
I3107	A2866	I2791	F2577	PHE	D2419	P2206	THR	THR
Q3108	L2871	L2794	P2580	LEU	F2420	K2207	VAL	VAL
S3109	L2871	Q2795	L2581	LEU	V2421	D2208	THR	THR
F3110	C2880	A2796	S2582	GLN	Q2422	L2285	HIS	HIS
M3111	L2881	Q2799	C2584	ASP	M2424	M2281	ASP	ASP
Q3112	Q2885	R2800	E2585	GLU	R2430	V2280	ASP	ASP
N3113	Q2886	D2801	F2586	VAL	E2431	M2281	ASP	ASP
Y3114	P2887	P2802	Q2587	THR	R2432	A2212	VAL	VAL
I3117	V2888	L2803	E2588	ASP	K2433	N2213	LEU	LEU
L3121	R2891	I2804	Y2589	ALA	D2428	R2214	GLU	GLU
H3122	S2895	A2895	D2894	GLY	D2429	L2216	LEU	LEU
Q3123	E2967	Q2806	M2595	THR	E2430	M2217	MET	MET
S3124	K2970	Q2807	F2597	ALA	R2430	F2218	ASP	ASP
		L2808			E2298	N2219	ASP	ASP
					C2292	L2219	GLU	GLU
					G2293	M2220	LEU	LEU
					I2294	R2221	ASN	ASN
					Q2295	K2222	H2091	H2091
						H2223	C2092	C2092
						F2224	E2092	E2092
						P2226	M2094	M2094

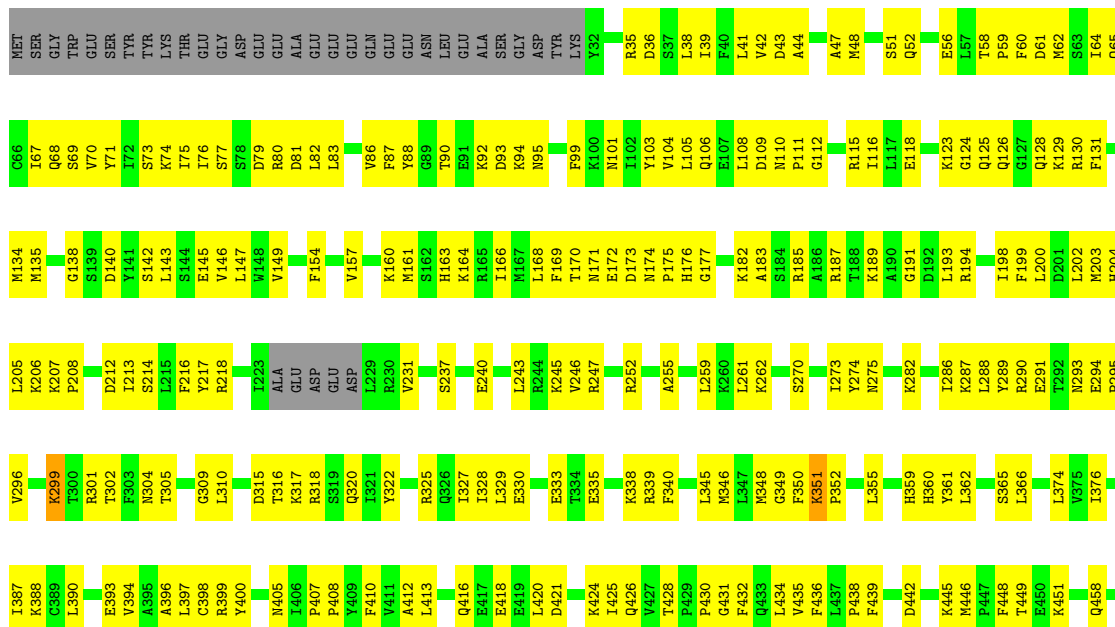
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L3126	I3193	K3267	SER	SER	K3508	D3576	ARG	E3838	H3915	A3987	K4048
T3127	K3196	W3272	GLU	ALA	D3509	Q3577	MET	D3841	H3915	A3987	R4049
K3128	K3196	L3273	LEU	LEU	Q3510	L3578	LYS	W3842	L3918	L3988	A4054
L3129	L3197	L3273	THR	GLN	A3511	S3579	S3657	L3843	G3919	A3990	M4055
Q3130	THR	L3276	PRO	GLN	V3512	E3582	L3851	THR	G3921	ARG	V4058
Q3133	PRO	Q3277	LEU	Y3442	A3513	L3583	M3860	LYS	D3922	SER	D4062
A3134	LEU	Q3277	PRO	P3443	Q3515	L3583	SER	MET	R3923	ASP	E4063
L3135	GLU	V3278	GLU	P3443	H3516	K3586	GLY	GLY	H3924	PRO	L4064
T3136	ASP	C3281	ASN	A3444	S3517	K3586	M3665	LYS	L3925	G3996	L4064
E3137	ASN	R3282	ASN	L3445	V3518	S3589	HIS	HIS	N3926	L3997	H4068
L3138	SER	L3283	SER	V3446	F3519	S3589	L3668	D3851	N3927	L3998	H4068
Q3139	MET	S3284	MET	V3447	E3520	V3582	L3668	D3851	F3928	T3999	H4068
E3140	ASN	S3285	ASN	E3448	E3520	V3582	M3871	Y3855	M3929	M4000	A4071
F3141	VAL	C3286	VAL	K3449	I3521	R3593	M3871	Y3855	M3929	T4001	A4071
A3142	ASP	R3287	ASP	K3450	N3524	E3595	K3675	K3857	M3932	M4002	F4074
S3143	GLN	S3288	GLN	K3452	Y3525	L3596	P3676	K3858	F3933	D4003	F4074
F3144	ASP	R3289	ASP	A3453	L3534	A3597	P3677	Y3859	F3933	V4004	Y4077
L3145	GLY	C3293	GLY	L3454	V3530	LYS	K3681	K3860	G3936	F4005	Y4077
S3146	ASP	Q3296	ASP	R3455	Y3531	THR	K3681	K3860	V3937	V4006	R4082
K3147	PRO	Q3296	PRO	L3456	P3532	PRO	E3682	T3865	I3938	P4009	R4082
L3150	SER	V3300	SER	A3461	F3533	V3601	C3683	T3865	G3939	S4010	S4084
L3151	ARG	L3301	ARG	R3462	I3534	N3602	S3684	F3867	I3940	F4011	K4085
S3152	MET	L3301	MET	L3463	L3535	K3603	S3688	T3869	F3942	D4012	K4085
S3153	GLU	V3304	GLU	K3464	S3639	T3606	S3688	T3869	F3946	W4013	R4090
Q3154	VAL	L3306	VAL	F3465	TYR	Y3610	V3692	S3870	F3946	A4091	Q4092
K3158	GLU	L3306	GLU	P3466	SER	Y3610	L3695	F3871	G3947	Q4092	Q4092
K3158	GLU	L3306	GLU	R3467	PHE	Y3614	R3696	F3872	S3948	E4093	E4093
R3162	GLU	R3311	GLU	L3468	LYS	A3614	M3697	K3873	A3949	P4094	P4094
T3163	GLU	R3311	GLU	L3469	ASP	A3615	M3697	K3874	T3950	E4095	E4095
K3164	GLU	S3314	GLU	Q3470	T3645	A3616	E3875	E3875	Q3951	S4096	S4096
T3165	GLU	Y3315	GLU	T3471	S3546	L3617	E3700	S3876	P3956	G4097	G4097
T3165	GLU	Y3315	GLU	T3472	S3546	G3619	E3700	S3876	L3957	H4098	H4098
R3166	GLU	L3316	GLU	E3473	T3547	D3619	I3701	K3877	E3957	L4100	E4100
R3167	GLU	S3317	GLU	A3474	G3548	P3620	P3702	S3878	E3957	S4099	S4099
F3168	GLU	R3318	GLU	R3474	H3549	K3621	P3702	F3879	M3959	E4101	E4101
F3169	GLU	K3318	GLU	Y3475	K3550	A3622	Y3705	A3880	P3960	T4102	T4102
D3170	M3240	F3323	M3240	E3477	M3551	A3622	E3714	D3881	F3961	K4105	K4105
K3241	K3241	R3324	K3241	E3478	K3552	G3626	E3714	L3882	F3961	C4106	C4106
K3172	M3242	D3325	M3242	T3479	E3553	G3626	V3717	K3883	R3962	D4109	D4109
L3243	L3243	Q3326	L3243	T3415	F3554	R3629	R3718	K3884	L3800	Q4110	Q4110
D3244	D3244	R3327	D3244	L3416	V3555	R3630	I3719	R3885	L3802	G3965	G3965
F3175	S3245	R3327	S3245	A3417	I3558	K3631	A3720	A3886	L3803	Q3966	Q3966
K3176	A3246	I3337	A3246	A3417	K3559	F3632	A3720	K3889	L3817	N3969	N3969
N3177	A3246	A3338	A3246	A3417	K3559	F3632	A3720	M3890	L3817	VAL	VAL
L3178	N3250	R3339	N3250	C3420	L3562	I3633	D3723	M3890	Q3822	L3970	L3970
K3257	N3250	A3340	K3257	D3421	D3563	K3638	E3724	M3890	Q3822	ALA	ALA
L3183	L3254	A3340	L3183	Q3422	L3563	E3639	R3725	E3895	K3825	GLU	GLU
L3184	L3254	E3353	L3184	L3424	G3565	K3642	A3730	L3898	L3825	LYS	LYS
N3185	M3256	R3357	N3185	R3425	G3566	H3642	A3730	L3898	L3825	ASN	ASN
L3259	M3256	R3357	L3259	R3425	G3566	H3642	A3730	L3898	L3825	VAL	VAL
N3185	L3259	R3357	N3185	R3425	G3566	H3642	A3730	L3898	L3825	VAL	VAL
F3188	E3261	E3681	F3188	E3261	F3571	GLY	I3739	A3909	M3974	W4038	W4038
F3189	L3262	E3681	F3189	L3262	H3501	GLY	I3740	A3909	K3975	Y4039	Y4039
S3191	H3263	S3363	S3191	H3263	M3502	LYS	R3741	C3912	E3976	P4040	P4040
		G3364			L3506	LEU	H3743	I3913	T3977	R4041	R4041
									F3904	G3978	G3978
									F3904	L3979	L3979
									A3909	M3980	M3980
									A3909	K4043	K4043
									C3912	I4044	I4044
									C3912	C4045	C4045
									I3913	Y4046	Y4046

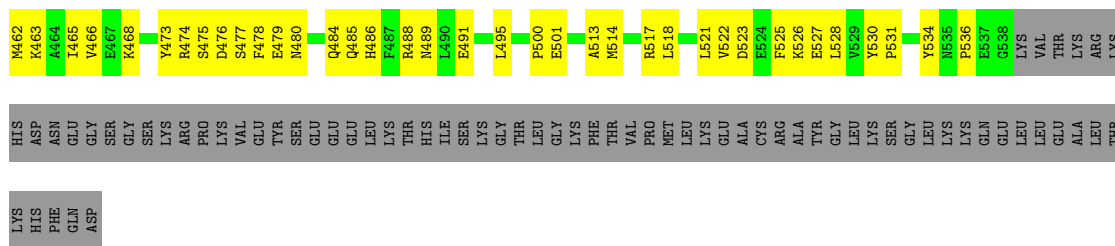
• Molecule 2: X-ray repair cross-complementing protein 6



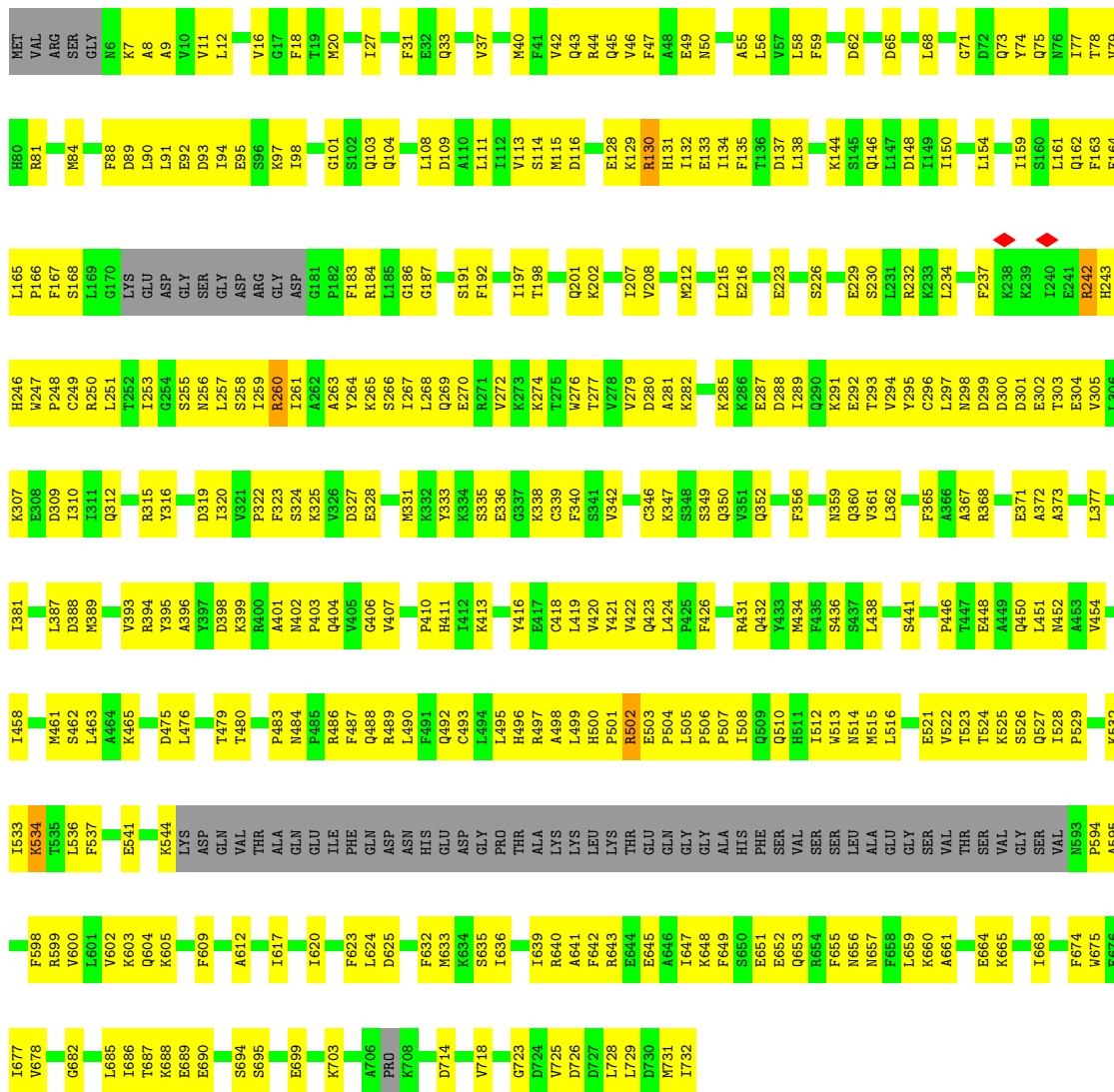


● Molecule 2: X-ray repair cross-complementing protein 6

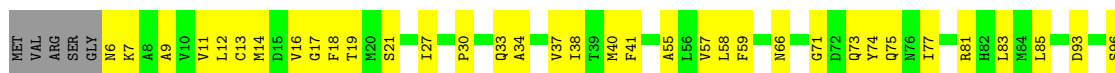




• Molecule 3: X-ray repair cross-complementing protein 5

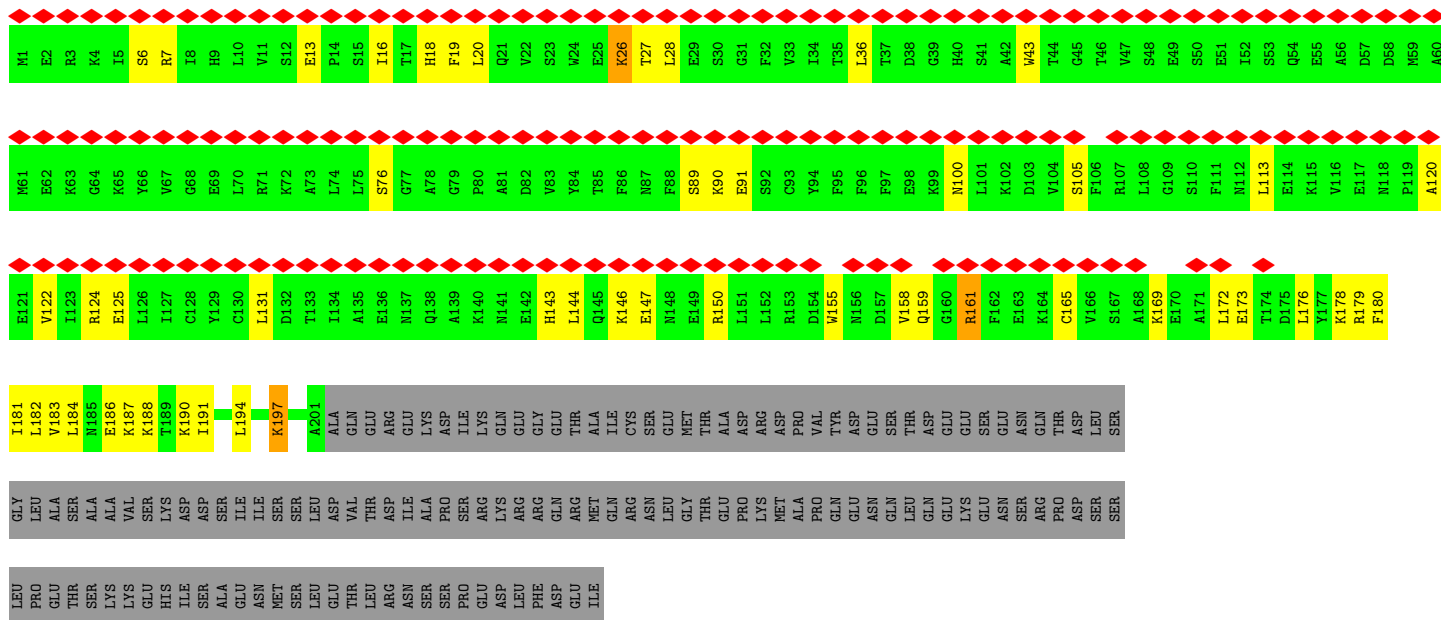


• Molecule 3: X-ray repair cross-complementing protein 5

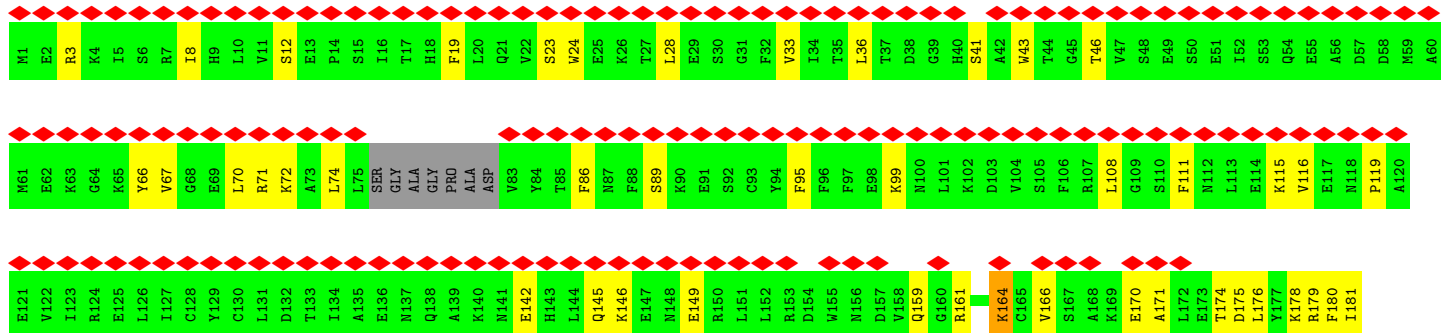
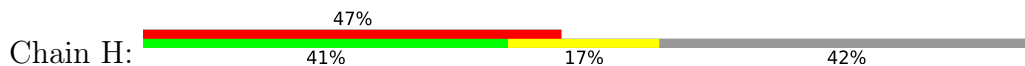


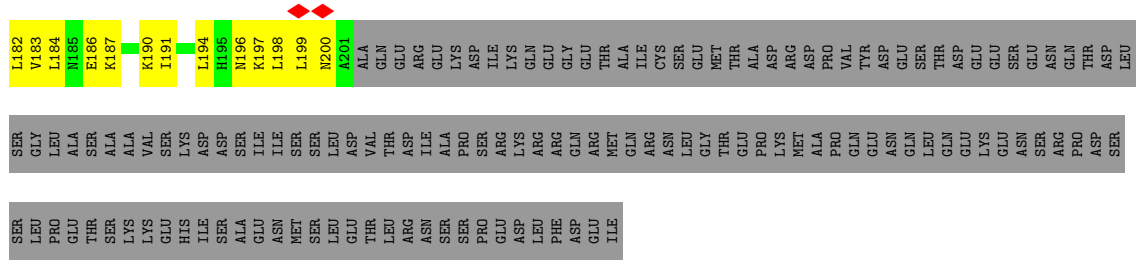


• Molecule 5: DNA repair protein XRCC4

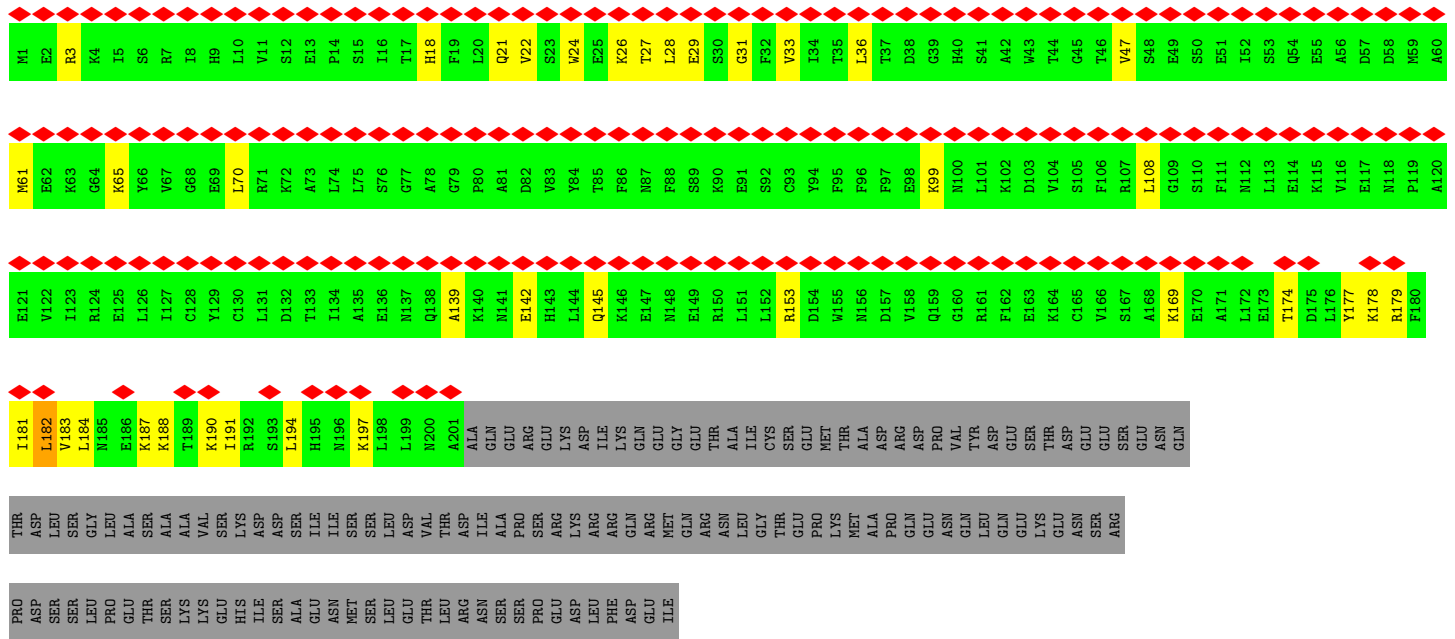


• Molecule 5: DNA repair protein XRCC4

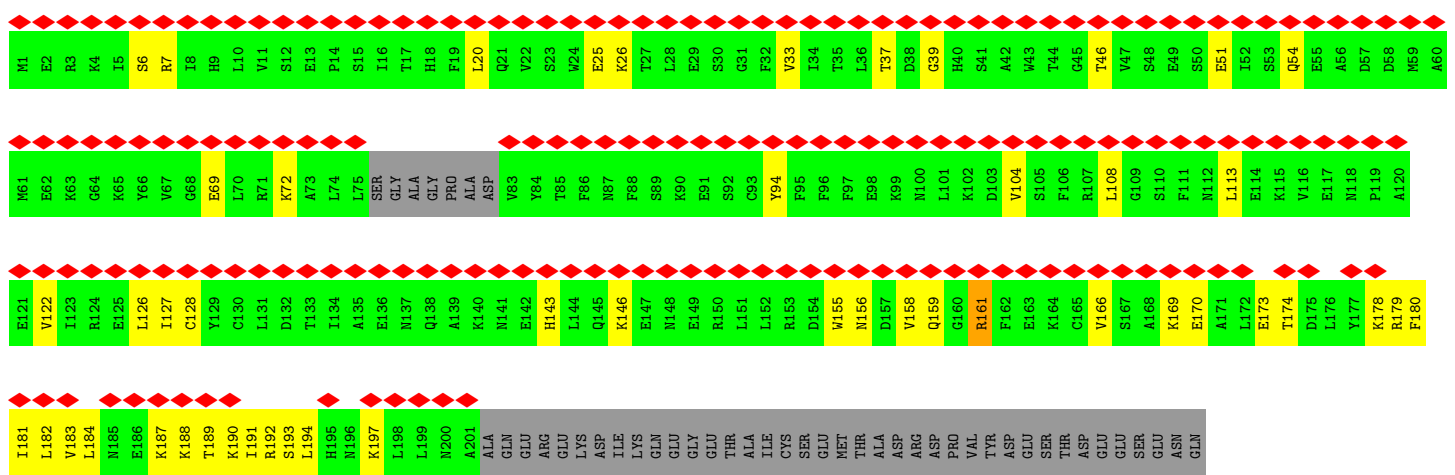
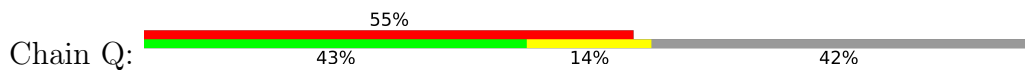




● Molecule 5: DNA repair protein XRCC4



● Molecule 5: DNA repair protein XRCC4



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4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	30390	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 ($e^-/\text{\AA}^2$)	48.03	Depositor
Minimum defocus (nm)	900	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	130000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.544	Depositor
Minimum map value	-0.204	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.016	Depositor
Recommended contour level	0.045	Depositor
Map size (Å)	678.08, 678.08, 678.08	wwPDB
Map dimensions	520, 520, 520	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.304, 1.304, 1.304	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.30	0/28856	0.52	1/38971 (0.0%)
1	S	0.27	0/28899	0.51	0/39012
2	B	0.29	0/4166	0.53	0/5615
2	T	0.27	0/4116	0.51	0/5547
3	C	0.27	0/5419	0.50	0/7303
3	L	0.26	0/5303	0.49	0/7147
4	D	0.26	0/1128	0.52	0/1533
4	M	0.26	0/1247	0.53	0/1695
5	G	0.25	0/1657	0.49	0/2228
5	H	0.25	0/1616	0.48	0/2170
5	P	0.24	0/1651	0.51	1/2221 (0.0%)
5	Q	0.25	0/1607	0.49	0/2159
6	I	0.25	0/2028	0.51	0/2735
6	R	0.26	0/2014	0.54	0/2719
7	d	0.76	0/577	1.20	5/890 (0.6%)
8	e	0.66	0/622	1.06	3/957 (0.3%)
9	i	0.58	0/597	0.98	0/918
10	j	0.59	0/556	1.12	2/858 (0.2%)
11	f	0.33	0/58	0.83	0/74
11	m	0.27	0/58	0.75	0/74
All	All	0.29	0/92175	0.54	12/124826 (0.0%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	j	27	DT	P-O3'-C3'	-10.06	107.62	119.70
7	d	26	DT	P-O3'-C3'	-8.78	109.16	119.70
7	d	21	DA	P-O3'-C3'	-8.30	109.74	119.70
8	e	31	DA	P-O3'-C3'	-7.35	110.88	119.70
8	e	30	DA	P-O3'-C3'	-6.77	111.58	119.70
10	j	26	DT	P-O3'-C3'	-6.75	111.60	119.70
7	d	27	DT	P-O3'-C3'	-6.60	111.78	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	d	20	DT	P-O3'-C3'	-6.31	112.13	119.70
7	d	22	DG	P-O3'-C3'	5.88	126.76	119.70
5	P	182	LEU	CA-CB-CG	5.86	128.78	115.30
8	e	39	DA	O4'-C4'-C3'	-5.47	102.31	104.50
1	A	2808	LEU	CA-CB-CG	5.14	127.11	115.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	28300	0	28587	1746	0
1	S	28342	0	28717	1528	0
2	B	4085	0	4143	334	0
2	T	4037	0	4105	244	0
3	C	5318	0	5327	334	0
3	L	5204	0	5210	260	0
4	D	1102	0	1098	42	0
4	M	1219	0	1197	31	0
5	G	1628	0	1620	37	0
5	H	1589	0	1587	51	0
5	P	1622	0	1609	27	0
5	Q	1580	0	1567	42	0
6	I	1984	0	1940	82	0
6	R	1970	0	1916	64	0
7	d	516	0	288	0	0
8	e	554	0	307	0	0
9	i	532	0	296	0	0
10	j	497	0	277	0	0
11	f	57	0	60	0	0
11	m	57	0	60	0	0
All	All	90193	0	89911	4601	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 27.

All (4601) 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)
6:I:814:ARG:H	6:I:850:ALA:H	1.19	0.91
1:S:2225:HIS:HB2	1:S:2231:PHE:HB2	1.51	0.90
1:S:2461:PHE:HB3	1:S:2464:HIS:HE2	1.37	0.90
1:S:2321:GLU:HG2	1:S:2366:LYS:HE3	1.52	0.89
3:C:461:MET:HE1	3:C:522:VAL:HG12	1.55	0.88
1:S:1300:SER:HA	1:S:1304:HIS:HB2	1.54	0.88
3:C:731:MET:H	1:S:1913:LYS:HG2	1.36	0.88
1:S:2436:LEU:HD22	1:S:2472:GLN:HB3	1.55	0.88
3:C:295:TYR:H	3:C:304:GLU:HG3	1.39	0.86
3:L:310:ILE:HD13	2:T:296:VAL:HB	1.58	0.85
1:S:1452:VAL:HG22	1:S:1517:LEU:HD11	1.59	0.85
3:L:136:THR:HG22	3:L:138:LEU:H	1.41	0.84
6:R:817:THR:H	6:R:851:LYS:HG2	1.41	0.84
1:S:2295:GLN:HE21	1:S:2298:GLU:HG3	1.42	0.83
1:A:1116:ALA:HB2	1:A:1180:GLN:HE22	1.43	0.83
3:L:500:HIS:HB3	3:L:503:GLU:HB2	1.58	0.83
2:B:173:ASP:HB2	2:B:216:PHE:HB3	1.61	0.82
2:B:75:ILE:HA	2:B:79:ASP:HB3	1.63	0.80
1:A:1196:PRO:HG3	1:A:1203:SER:HB2	1.62	0.80
2:B:230:ARG:HG3	2:B:232:HIS:H	1.46	0.80
1:S:4064:LEU:HB3	1:S:4074:PHE:HE1	1.46	0.80
1:A:3692:VAL:HG11	1:A:3719:ILE:HG12	1.64	0.80
1:S:3577:GLN:HE21	1:S:3629:ARG:HB3	1.47	0.80
1:A:898:PHE:H	1:A:902:LYS:HE3	1.47	0.79
5:G:161:ARG:NH1	5:G:165:CYS:SG	2.56	0.79
1:S:3301:LEU:HB2	1:S:3304:VAL:HA	1.63	0.79
3:C:323:PHE:HE2	3:C:328:GLU:HB3	1.47	0.79
1:A:2317:ALA:HA	1:A:2366:LYS:HE3	1.63	0.79
3:L:331:MET:SD	2:T:489:ASN:ND2	2.57	0.78
1:A:1300:SER:HA	1:A:1304:HIS:HB2	1.63	0.78
1:A:2310:VAL:HG21	1:A:2359:LYS:HE2	1.65	0.78
1:A:2415:LEU:HB2	1:A:2420:PHE:HB3	1.64	0.78
1:A:2273:GLY:HA2	1:A:2276:LEU:HD13	1.65	0.78
1:S:2750:GLU:HA	1:S:2753:ARG:HD2	1.64	0.78
1:S:3874:ARG:HD3	1:S:4126:PRO:HB2	1.65	0.78
1:A:3574:ALA:HB2	1:A:3684:SER:HB2	1.64	0.78
1:A:1076:LEU:HB2	1:A:1123:THR:HG22	1.65	0.77
1:A:3829:LEU:HB3	1:A:3833:ARG:HH11	1.49	0.77
3:C:20:MET:HB3	3:C:31:PHE:HB2	1.64	0.77
1:S:225:LYS:HD2	1:S:270:ALA:HB1	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:293:THR:HG21	3:C:307:LYS:HZ1	1.49	0.77
1:A:1574:ASN:HD21	1:A:1578:ALA:H	1.32	0.77
1:A:1820:VAL:HA	1:A:1824:LEU:HD23	1.64	0.77
2:B:204:HIS:HB2	2:B:236:SER:H	1.49	0.77
1:A:3717:VAL:HG21	1:A:3746:ARG:HB3	1.67	0.77
2:B:291:GLU:HA	6:I:691:GLN:H	1.49	0.77
1:A:3613:MET:HE1	1:A:3799:ARG:HH12	1.50	0.76
1:S:139:ARG:HH22	1:S:230:LEU:HD11	1.49	0.76
1:A:3240:MET:HB2	1:A:3272:TRP:HH2	1.49	0.76
2:B:261:LEU:HA	2:B:345:LEU:HB2	1.68	0.76
1:A:4055:ASN:HD22	1:A:4058:VAL:HG23	1.50	0.76
6:I:769:THR:HA	6:I:773:GLN:HE21	1.49	0.76
1:S:380:ASP:O	1:S:383:PHE:HB3	1.86	0.76
2:T:75:ILE:HA	2:T:79:ASP:HB3	1.65	0.76
6:R:812:MET:H	6:R:848:HIS:HB2	1.51	0.76
1:S:301:CYS:HA	1:S:309:LYS:HA	1.68	0.76
1:S:4090:ARG:HH22	1:S:4106:CYS:HA	1.51	0.76
1:S:2937:ASP:HB2	1:S:3979:LEU:HD22	1.68	0.75
3:L:605:LYS:HB2	3:L:609:PHE:HZ	1.51	0.75
2:B:318:ARG:HB2	2:B:329:LEU:O	1.87	0.75
4:D:98:LEU:HB3	4:D:105:LEU:HB2	1.68	0.75
1:A:3069:MET:HA	1:A:3075:LYS:HD3	1.67	0.75
1:S:582:THR:HG23	1:S:615:ALA:HB3	1.69	0.75
1:S:639:ALA:HB2	1:S:676:ASN:HB3	1.69	0.75
1:A:4054:ALA:HA	1:A:4096:SER:HA	1.69	0.75
1:A:131:LEU:HB3	1:A:177:LEU:HD21	1.68	0.75
1:A:3680:LEU:HG	1:A:3688:SER:HA	1.68	0.75
1:S:66:LEU:O	1:S:70:ARG:HB3	1.85	0.75
1:S:2102:LYS:NZ	1:S:2155:GLU:OE2	2.20	0.75
1:A:1368:LEU:HA	1:A:1371:VAL:HG22	1.67	0.74
1:A:1685:ASP:HB3	1:A:1688:LEU:HG	1.68	0.74
2:T:172:GLU:HG3	2:T:175:PRO:HD3	1.69	0.74
1:A:134:LEU:HD11	1:A:177:LEU:HD22	1.70	0.74
1:S:714:VAL:HA	1:S:717:LYS:HG2	1.70	0.74
1:S:1878:ASP:HB3	1:S:1947:CYS:HA	1.69	0.74
2:T:173:ASP:HB2	2:T:216:PHE:HB3	1.70	0.74
1:A:1354:GLU:HB3	1:A:1357:LYS:HD3	1.69	0.74
3:L:620:ILE:HD13	3:L:635:SER:HB3	1.69	0.74
1:S:958:MET:HB3	1:S:961:LEU:HB2	1.67	0.74
1:A:36:ARG:O	1:A:40:GLN:NE2	2.20	0.74
1:S:1172:LEU:HD11	1:S:1187:SER:HB2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2893:LEU:HD11	1:A:2922:ARG:HB2	1.70	0.74
2:B:165:ARG:NH1	4:D:185:LEU:O	2.20	0.74
1:S:3244:ASP:OD1	1:S:3282:ARG:NH2	2.20	0.73
1:A:2367:VAL:O	1:A:2371:PHE:N	2.21	0.73
3:L:602:VAL:HG11	3:L:642:PHE:HE1	1.53	0.73
1:S:919:LEU:HG	1:S:920:THR:HG23	1.70	0.73
3:L:596:GLU:HA	3:L:599:ARG:HD2	1.70	0.73
6:R:810:LEU:HD21	6:R:848:HIS:HD2	1.54	0.73
1:A:956:PRO:HA	1:A:959:TYR:HB2	1.71	0.73
1:A:1365:ASN:HD21	1:A:1370:ARG:HH22	1.36	0.73
2:T:59:PRO:HB3	2:T:205:LEU:HD21	1.71	0.73
1:A:162:LEU:HB2	2:B:301:ARG:HH21	1.53	0.73
1:A:1620:THR:HG22	1:A:1624:GLN:HE22	1.53	0.73
3:C:162:GLN:HG2	3:C:223:GLU:HB3	1.70	0.73
1:S:318:SER:O	1:S:322:GLN:NE2	2.22	0.73
2:T:458:GLN:HE21	2:T:528:LEU:HB3	1.52	0.73
1:A:3613:MET:O	1:A:3617:LEU:N	2.21	0.73
1:A:2254:ARG:HD3	1:A:2294:ILE:HG12	1.70	0.73
1:A:2411:LEU:HA	1:A:2414:GLN:HG2	1.70	0.73
1:A:3755:GLY:HA2	1:A:3799:ARG:HA	1.71	0.73
2:T:42:VAL:HA	2:T:169:PHE:HB2	1.70	0.73
2:B:35:ARG:O	2:B:162:SER:N	2.22	0.73
1:S:3681:LYS:HG3	1:S:3724:GLU:HG2	1.70	0.73
2:B:299:LYS:HD2	2:B:301:ARG:HH22	1.53	0.73
3:L:510:GLN:HA	3:L:513:TRP:HD1	1.54	0.73
3:L:653:GLN:O	3:L:657:ASN:ND2	2.22	0.73
1:S:645:TRP:HB3	1:S:649:PHE:HB2	1.71	0.73
1:A:2441:LYS:O	1:A:2445:LYS:NZ	2.22	0.72
3:C:687:THR:HG22	3:C:688:LYS:H	1.54	0.72
1:A:3945:ALA:HB3	1:A:3948:SER:HB3	1.71	0.72
1:A:4049:ARG:HH21	1:A:4058:VAL:HG12	1.55	0.72
2:B:496:ASP:OD1	6:I:708:ARG:NH2	2.21	0.72
1:S:3018:SER:HB2	1:S:3031:TRP:HE1	1.53	0.72
1:A:3417:ALA:HA	1:A:3446:VAL:HG23	1.69	0.72
2:B:256:LEU:HD13	2:B:274:TYR:HA	1.72	0.72
1:A:2218:PHE:O	1:A:2222:HIS:ND1	2.21	0.72
2:B:389:CYS:HA	2:B:392:LYS:HB2	1.69	0.72
1:S:100:ILE:O	1:S:104:SER:N	2.23	0.72
1:A:236:LYS:NZ	1:A:240:GLU:OE2	2.22	0.72
1:A:960:GLN:HA	1:A:963:LYS:HE2	1.71	0.71
1:A:1095:LEU:O	1:A:1099:PHE:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1296:PHE:HA	1:A:1299:GLU:HG2	1.72	0.71
1:A:1649:LEU:HD13	1:A:1652:ILE:HD11	1.70	0.71
2:B:94:LYS:H	2:B:103:TYR:HA	1.54	0.71
2:B:302:THR:HA	3:C:291:LYS:HA	1.71	0.71
1:S:2383:PHE:HB3	1:S:2418:LYS:HE3	1.72	0.71
1:S:2938:VAL:HG23	1:S:3979:LEU:HD23	1.70	0.71
1:A:392:CYS:HA	1:A:395:MET:HG3	1.72	0.71
2:B:337:LEU:HA	3:C:489:ARG:HE	1.52	0.71
1:S:1851:LEU:HG	1:S:1852:LYS:HE2	1.72	0.71
1:A:3114:TYR:HA	1:A:3117:ILE:HG12	1.71	0.71
1:A:332:GLU:HB2	1:A:335:LYS:HD2	1.72	0.71
6:I:811:SER:HB2	6:I:850:ALA:HB2	1.73	0.71
1:A:3686:TRP:HA	1:A:3690:PHE:HB3	1.72	0.71
1:A:3758:LEU:HB2	1:A:3795:PRO:HB3	1.72	0.71
3:L:253:ILE:HB	3:L:257:LEU:HB3	1.72	0.71
3:L:689:GLU:HA	3:L:695:SER:HB3	1.73	0.71
4:M:75:ARG:NH2	4:M:103:SER:O	2.23	0.71
1:S:1428:ILE:HG13	1:S:1431:LEU:HD12	1.73	0.71
1:S:1635:LYS:HD3	1:S:1683:LYS:HE3	1.71	0.71
1:A:391:ARG:NH1	1:A:391:ARG:O	2.24	0.71
1:S:3864:ARG:HE	1:S:4085:LYS:HA	1.55	0.71
5:P:31:GLY:HA2	5:P:47:VAL:HB	1.72	0.71
1:A:3459:ASN:OD1	1:A:3708:ARG:NH1	2.24	0.71
1:A:3704:GLN:NE2	1:A:3804:GLU:OE1	2.24	0.71
1:A:749:VAL:O	1:A:753:GLN:NE2	2.23	0.70
3:C:407:VAL:HB	3:C:424:LEU:HD11	1.72	0.70
3:L:426:PHE:HB3	2:T:479:GLU:HA	1.73	0.70
1:A:628:GLU:O	1:A:631:ARG:HG3	1.91	0.70
2:B:258:ARG:O	2:B:260:LYS:NZ	2.24	0.70
2:B:396:ALA:HB3	2:B:413:LEU:HB2	1.74	0.70
2:T:74:LYS:NZ	2:T:110:ASN:OD1	2.25	0.70
1:A:61:ARG:HB2	1:A:103:TYR:HE2	1.56	0.70
1:A:2956:ALA:HB2	1:A:2971:GLN:HB2	1.73	0.70
4:D:42:THR:HG22	4:D:44:ALA:H	1.53	0.70
1:A:2528:GLU:HG3	1:A:2532:PRO:HA	1.71	0.70
1:A:2563:LEU:HD13	1:A:2795:GLN:HB3	1.73	0.70
1:A:3311:ASN:HB3	1:A:3314:SER:HA	1.72	0.70
1:A:487:LEU:HD11	1:A:575:ILE:HG21	1.74	0.70
1:A:640:GLU:HA	1:A:643:GLU:HB2	1.73	0.70
2:T:111:PRO:HA	2:T:115:ARG:HD3	1.74	0.70
1:A:38:LEU:HD21	1:A:85:ILE:HG13	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:27:THR:HG22	5:P:29:GLU:H	1.57	0.70
1:S:1397:ASP:OD1	1:S:1398:VAL:N	2.23	0.70
1:S:1651:LYS:NZ	1:S:2045:PHE:O	2.25	0.70
1:A:1684:LEU:O	1:A:1689:LYS:NZ	2.25	0.70
3:C:327:ASP:O	3:C:331:MET:HG2	1.92	0.70
6:I:814:ARG:H	6:I:850:ALA:N	1.88	0.69
3:L:247:TRP:HB3	3:L:263:ALA:HB3	1.74	0.69
1:S:460:ALA:HA	1:S:463:LYS:HD2	1.74	0.69
3:C:657:ASN:HA	3:C:660:LYS:HD2	1.74	0.69
2:T:147:LEU:HD13	2:T:189:LYS:HB3	1.72	0.69
1:A:1646:LEU:HD11	1:A:1692:ALA:HB2	1.75	0.69
1:A:3266:SER:HA	1:A:3272:TRP:HD1	1.57	0.69
1:A:1215:GLU:HG3	1:A:1219:PHE:HB2	1.75	0.69
1:A:3771:MET:HA	1:A:3774:ILE:HD12	1.74	0.69
1:S:1419:LEU:HD21	1:S:1467:ILE:HB	1.74	0.69
1:A:3259:LEU:HD11	1:A:3283:LEU:HD23	1.74	0.69
1:A:3584:LEU:HD22	1:A:3799:ARG:HD3	1.74	0.69
5:P:99:LYS:HE3	5:P:108:LEU:HD11	1.73	0.69
3:L:74:TYR:HD1	3:L:113:VAL:HG23	1.57	0.69
3:L:169:LEU:HD21	3:L:225:TYR:HA	1.75	0.69
5:Q:181:ILE:HG21	6:R:795:LEU:HD11	1.74	0.69
1:S:2349:LEU:HB3	1:S:2360:PHE:HE1	1.56	0.69
1:S:3029:LYS:N	1:S:3074:GLN:OE1	2.25	0.69
1:S:3464:LYS:HG3	1:S:3468:LEU:HG	1.74	0.69
1:A:1420:ARG:NH2	1:A:1466:ASN:O	2.23	0.69
1:A:3880:ALA:HB2	1:A:3965:ARG:HE	1.58	0.69
2:B:214:SER:HA	2:B:218:ARG:HB3	1.74	0.69
2:B:480:ASN:HD22	2:B:483:LEU:HG	1.56	0.69
2:B:441:ASP:O	2:B:444:ARG:NH1	2.26	0.69
1:A:2388:LYS:HE2	2:B:155:SER:HA	1.75	0.69
1:S:1070:PRO:HG3	1:S:3743:HIS:CD2	2.28	0.69
2:B:269:ILE:HG23	2:B:378:SER:HB2	1.74	0.68
1:A:3716:HIS:O	1:A:3718:ARG:NH1	2.26	0.68
6:I:814:ARG:HB3	6:I:849:GLY:HA2	1.74	0.68
3:L:496:HIS:O	3:L:500:HIS:N	2.27	0.68
1:S:1184:ARG:HE	1:S:1262:ALA:HB1	1.57	0.68
1:S:2461:PHE:HB3	1:S:2464:HIS:NE2	2.07	0.68
1:S:3126:LEU:O	1:S:3130:GLN:NE2	2.26	0.68
1:S:3720:ALA:HB3	1:S:3743:HIS:HA	1.75	0.68
1:A:155:LYS:NZ	1:A:159:GLU:OE1	2.25	0.68
1:A:2500:LYS:HA	1:A:2503:LYS:HZ2	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1282:LEU:HD12	1:S:1359:LEU:HD13	1.74	0.68
1:S:2522:ARG:NH2	1:S:2795:GLN:OE1	2.26	0.68
1:A:391:ARG:NH1	1:A:394:GLN:OE1	2.24	0.68
1:A:1270:PHE:HB3	1:A:1276:VAL:HB	1.74	0.68
4:M:47:LEU:HD23	4:M:112:VAL:HG11	1.74	0.68
1:A:188:GLU:O	1:A:192:ASN:ND2	2.26	0.68
1:A:2251:ILE:HD11	1:A:2285:LEU:HD13	1.76	0.68
1:S:3603:LYS:HG2	1:S:3647:GLY:H	1.59	0.68
1:S:4106:CYS:SG	1:S:4110:GLN:NE2	2.66	0.68
1:A:2140:LEU:HD23	1:A:2143:ARG:HD2	1.76	0.68
1:S:22:ALA:HA	1:S:24:ARG:HH11	1.57	0.68
1:S:655:LEU:O	1:S:659:ARG:NH1	2.26	0.68
1:A:1403:MET:HA	1:A:1406:LEU:HD12	1.76	0.68
2:B:500:PRO:O	2:B:502:GLN:NE2	2.27	0.68
2:B:537:GLU:OE1	3:C:250:ARG:NH1	2.27	0.68
1:S:1412:LYS:O	1:S:1416:GLU:N	2.23	0.68
3:C:643:ARG:HE	3:C:685:LEU:HB3	1.59	0.68
1:S:923:ASP:O	1:S:926:THR:N	2.25	0.68
1:A:2760:GLU:HA	1:A:2763:MET:HG3	1.75	0.68
1:A:3482:LEU:O	1:A:3485:LYS:NZ	2.27	0.68
4:D:60:LEU:HD13	4:D:63:ARG:HD3	1.74	0.68
5:G:191:ILE:HG13	5:H:191:ILE:HD11	1.76	0.68
1:S:125:ILE:HA	1:S:128:LEU:HD12	1.76	0.68
1:S:1087:ARG:HG3	1:S:1090:ARG:HH21	1.59	0.68
1:S:3266:SER:HA	1:S:3272:TRP:CD1	2.28	0.68
1:S:4082:ARG:NH2	1:S:4092:GLN:OE1	2.27	0.68
2:T:82:LEU:HB3	2:T:108:LEU:HB3	1.77	0.68
1:A:117:LYS:NZ	3:C:302:GLU:OE1	2.26	0.67
1:A:2102:LYS:HZ3	1:A:2155:GLU:HG2	1.60	0.67
1:A:2229:ALA:O	1:A:2731:ARG:NH2	2.26	0.67
3:C:362:LEU:HB2	3:C:421:TYR:HB3	1.76	0.67
4:D:18:PRO:HG3	4:M:130:LYS:HB3	1.73	0.67
1:S:2442:MET:HG3	1:S:2446:LEU:HD11	1.77	0.67
1:A:19:LEU:HD22	1:A:34:LEU:HA	1.75	0.67
1:A:958:MET:O	1:A:962:TYR:N	2.23	0.67
3:L:11:VAL:HG23	3:L:55:ALA:HB3	1.76	0.67
1:S:1066:LEU:HA	1:S:1069:HIS:CD2	2.29	0.67
1:S:4055:ASN:HB2	1:S:4095:GLU:HA	1.75	0.67
1:A:149:ILE:O	1:A:153:PHE:N	2.24	0.67
1:A:675:ARG:NH2	1:A:735:SER:O	2.26	0.67
1:A:1525:CYS:HB3	1:A:1578:ALA:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3118:ASP:HB3	1:A:3120:LEU:HG	1.75	0.67
1:A:3717:VAL:HA	1:A:3743:HIS:HB3	1.75	0.67
1:S:1117:ASP:OD1	1:S:1118:GLU:N	2.27	0.67
1:A:3737:ARG:NH2	1:A:3807:GLU:OE2	2.28	0.67
1:A:3813:LYS:HZ3	1:A:3925:LEU:HB3	1.58	0.67
1:S:2512:ASP:H	1:S:2518:GLN:HE21	1.42	0.67
1:S:3593:ARG:NH2	1:S:3664:ASN:OD1	2.28	0.67
1:A:708:VAL:HG12	1:A:740:ILE:HG23	1.77	0.67
1:A:3587:ASP:HB2	1:A:3799:ARG:HH21	1.60	0.67
1:S:1220:LEU:HB2	1:S:1285:GLU:HB2	1.75	0.67
2:T:35:ARG:NH1	2:T:80:ARG:O	2.28	0.67
2:T:106:GLN:NE2	2:T:118:GLU:OE2	2.27	0.67
2:B:469:LEU:HD11	2:B:518:LEU:HD11	1.74	0.67
3:C:510:GLN:HA	3:C:513:TRP:HD1	1.59	0.67
1:S:584:GLU:N	1:S:613:HIS:O	2.28	0.67
1:A:1663:THR:HG22	1:A:1664:SER:H	1.59	0.67
1:A:3833:ARG:HH21	1:A:4127:TRP:HE1	1.43	0.67
3:C:162:GLN:HE21	3:C:223:GLU:HA	1.60	0.67
3:C:272:VAL:HG22	3:C:274:LYS:H	1.59	0.67
1:S:382:ASP:HA	1:S:385:TYR:HB3	1.76	0.67
1:S:1512:SER:HA	1:S:1515:LEU:HD12	1.77	0.67
1:S:3172:LYS:H	1:S:3179:TRP:HZ2	1.42	0.67
1:A:892:LEU:HG	1:A:907:LEU:HB2	1.77	0.67
2:B:505:ASP:OD2	3:C:394:ARG:NH1	2.27	0.67
1:S:2335:ASN:HD21	1:S:2337:LEU:HD23	1.58	0.67
1:A:1923:PHE:HD1	1:A:1941:HIS:HB3	1.60	0.67
1:A:3462:ARG:HH12	1:A:3495:PHE:H	1.41	0.67
2:B:289:TYR:HE2	2:B:291:GLU:HG2	1.59	0.67
1:S:2257:PHE:HA	1:S:2260:PHE:CE2	2.30	0.67
1:S:2452:ARG:HB3	1:S:2498:ILE:HG13	1.76	0.67
1:A:174:VAL:O	1:A:177:LEU:HB2	1.95	0.66
1:A:1047:GLN:O	1:A:1051:LYS:HB2	1.94	0.66
2:B:91:GLU:OE1	2:B:137:HIS:N	2.27	0.66
1:S:1417:THR:O	1:S:1421:GLU:N	2.28	0.66
1:S:2190:VAL:HA	1:S:2193:ILE:HD12	1.75	0.66
1:A:1456:LYS:HG3	1:A:1460:ARG:HE	1.60	0.66
1:S:2425:ARG:NH1	1:S:2457:PRO:O	2.28	0.66
1:A:3448:GLU:HG2	1:A:3482:LEU:HD13	1.78	0.66
1:S:1586:SER:HB2	1:S:1632:TRP:HH2	1.60	0.66
1:A:212:VAL:O	2:B:404:ARG:NH1	2.29	0.66
2:B:289:TYR:CE2	2:B:291:GLU:HG2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:260:ARG:HB3	3:C:367:ALA:HB3	1.77	0.66
1:S:3029:LYS:N	1:S:3032:SER:HG	1.93	0.66
1:A:3259:LEU:O	1:A:3276:TRP:NE1	2.29	0.66
3:C:524:THR:HA	3:C:527:GLN:HG2	1.78	0.66
3:L:647:ILE:HA	3:L:652:GLU:HG2	1.77	0.66
1:S:2094:MET:HA	1:S:2097:LEU:HD13	1.77	0.66
1:S:2348:GLN:HA	1:S:2351:GLN:HB2	1.78	0.66
1:A:3737:ARG:HH12	1:A:3749:PRO:HA	1.60	0.66
1:A:3781:CYS:O	1:A:3785:ALA:N	2.28	0.66
3:C:723:GLY:O	3:C:726:ASP:HB3	1.95	0.66
1:A:2577:PHE:HD2	1:A:2783:ILE:HG21	1.61	0.66
1:A:3053:LEU:HD11	1:A:3088:LEU:HB3	1.77	0.66
1:A:3236:PHE:HB3	1:A:3272:TRP:CE2	2.30	0.66
1:S:2208:ASP:OD1	1:S:2209:GLU:N	2.29	0.66
1:A:3735:PRO:HB3	1:A:3751:LEU:HD21	1.78	0.66
1:S:2090:ARG:NH1	1:S:2091:HIS:O	2.29	0.66
1:A:305:ASN:O	1:A:308:LEU:N	2.29	0.66
1:A:1961:PHE:HB2	1:A:1963:GLN:NE2	2.11	0.66
1:A:2920:VAL:O	1:A:2923:TRP:HB2	1.95	0.66
2:B:522:VAL:HG11	3:C:256:ASN:HB3	1.77	0.66
1:S:261:ASP:HB3	1:S:265:TYR:HD1	1.61	0.66
1:S:2402:LEU:HD12	1:S:2438:ILE:HG13	1.78	0.66
1:S:2819:GLU:OE2	1:S:2822:LYS:NZ	2.28	0.66
1:A:76:ILE:HA	1:A:79:ARG:HB3	1.78	0.65
1:A:2357:GLU:HA	1:A:2360:PHE:HB3	1.78	0.65
1:A:3823:GLU:OE1	1:A:3823:GLU:N	2.28	0.65
1:S:4039:TYR:HB3	1:S:4042:GLN:HG2	1.78	0.65
1:A:1322:THR:O	1:A:1326:GLU:N	2.29	0.65
2:B:174:ASN:O	2:B:178:ASN:N	2.29	0.65
2:B:179:ASP:HB3	2:B:182:LYS:HD3	1.78	0.65
1:S:527:TYR:O	1:S:530:LEU:HB3	1.95	0.65
1:A:2313:LYS:HA	1:A:2316:TYR:CZ	2.32	0.65
1:S:895:ALA:HB1	1:S:902:LYS:HB3	1.78	0.65
1:S:2102:LYS:O	1:S:2106:ARG:HG2	1.96	0.65
1:S:3723:ASP:HB2	1:S:3741:ARG:HE	1.61	0.65
1:S:3740:ILE:O	1:S:3748:HIS:N	2.28	0.65
1:A:835:LYS:O	1:A:839:ASN:ND2	2.30	0.65
5:H:43:TRP:HD1	5:H:116:VAL:HG12	1.61	0.65
1:S:1697:PRO:HA	1:S:1753:SER:HB3	1.77	0.65
1:S:1766:LEU:O	1:S:1822:ARG:NH1	2.29	0.65
1:S:2402:LEU:HD11	1:S:2437:ASP:HB2	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:ARG:HA	1:A:249:PHE:CD2	2.32	0.65
1:A:3546:SER:O	1:A:3549:HIS:NE2	2.29	0.65
2:B:304:ASN:ND2	2:B:307:THR:OG1	2.30	0.65
1:S:1910:GLU:O	1:S:1913:LYS:NZ	2.26	0.65
1:A:3691:LYS:NZ	1:A:3692:VAL:O	2.28	0.65
1:A:3760:GLN:HA	1:A:3763:ARG:HD3	1.78	0.65
1:A:3813:LYS:NZ	1:A:4125:GLU:OE2	2.30	0.65
1:S:1271:ILE:O	1:S:1274:ARG:NH1	2.29	0.65
2:T:61:ASP:OD1	2:T:124:GLY:N	2.27	0.65
1:A:174:VAL:HA	1:A:177:LEU:HD12	1.79	0.65
1:A:570:LYS:HA	1:A:573:LEU:HD12	1.79	0.65
1:A:1606:ARG:HA	1:A:1608:ARG:HH21	1.60	0.65
1:A:1711:ARG:HA	1:A:1714:LEU:HD12	1.78	0.65
1:A:1751:GLU:OE2	1:A:1788:ARG:NH1	2.30	0.65
3:L:309:ASP:HB3	2:T:289:TYR:HE1	1.60	0.65
1:S:528:VAL:HB	1:S:633:ILE:HD11	1.77	0.65
5:H:174:THR:HG22	6:I:792:MET:SD	2.37	0.65
3:L:496:HIS:NE2	3:L:504:PRO:O	2.30	0.65
1:S:326:MET:HA	1:S:329:LYS:HG2	1.79	0.65
1:A:1690:GLY:HA2	1:A:1693:VAL:HG22	1.79	0.65
1:A:3353:GLU:OE1	1:A:3358:ARG:NH1	2.27	0.65
3:C:497:ARG:NH1	3:C:500:HIS:O	2.30	0.65
1:S:658:THR:OG1	1:S:659:ARG:NH1	2.30	0.65
1:S:2168:LEU:HA	1:S:2171:LEU:HD12	1.79	0.65
1:S:2512:ASP:HB2	1:S:2518:GLN:HG2	1.78	0.65
1:S:3064:PHE:HA	1:S:3067:LYS:HE3	1.78	0.65
2:B:319:SER:N	3:C:277:THR:O	2.30	0.65
2:B:351:LYS:NZ	3:C:463:LEU:O	2.30	0.65
3:L:198:THR:HG23	3:L:201:GLN:H	1.62	0.65
3:L:209:LYS:HE2	3:L:221:LEU:HD11	1.77	0.65
3:L:418:CYS:SG	3:L:419:LEU:N	2.71	0.65
1:S:3444:ALA:HB2	1:S:3478:GLU:HB3	1.78	0.65
1:A:617:PRO:HA	1:A:620:PHE:HD2	1.62	0.64
1:A:1532:LEU:HD22	1:A:1560:TYR:HB2	1.79	0.64
1:A:1637:SER:O	1:A:1642:LYS:NZ	2.30	0.64
1:S:2589:TYR:N	1:S:2775:TYR:O	2.30	0.64
1:S:4064:LEU:HB3	1:S:4074:PHE:CE1	2.32	0.64
1:A:1307:ILE:HG12	1:A:1311:LYS:HD2	1.79	0.64
2:B:285:PRO:HB3	3:C:312:GLN:HE21	1.61	0.64
3:C:186:GLY:HA2	3:C:232:ARG:HD3	1.78	0.64
3:C:461:MET:CE	3:C:526:SER:HB3	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1220:LEU:HD11	1:S:1287:GLN:HB2	1.79	0.64
1:S:1457:GLN:HG2	1:S:1460:ARG:HH22	1.62	0.64
1:S:2126:MET:O	1:S:2130:HIS:HB2	1.97	0.64
1:S:2211:LEU:HA	1:S:2214:ARG:HH11	1.62	0.64
1:S:2580:PRO:HA	1:S:2783:ILE:H	1.61	0.64
1:A:529:ASP:OD1	1:A:530:LEU:N	2.30	0.64
3:C:492:GLN:HE21	3:C:506:PRO:HG2	1.62	0.64
1:S:770:LEU:HD12	1:S:854:ARG:HH21	1.61	0.64
2:T:36:ASP:HA	2:T:163:HIS:HB2	1.79	0.64
1:A:793:LEU:HB3	1:A:870:LEU:HA	1.79	0.64
1:A:1512:SER:HA	1:A:1515:LEU:HD12	1.79	0.64
1:A:2281:MET:HG2	1:A:2325:LEU:HB3	1.78	0.64
3:L:417:GLU:HG3	2:T:451:LYS:HE2	1.80	0.64
5:Q:189:THR:HG23	5:Q:192:ARG:HH21	1.61	0.64
1:S:392:CYS:HA	1:S:395:MET:HB3	1.78	0.64
2:T:351:LYS:HB2	2:T:355:LEU:HD12	1.77	0.64
2:T:468:LYS:HB3	2:T:517:ARG:HB3	1.79	0.64
1:A:327:VAL:HG13	1:A:333:MET:HB2	1.80	0.64
1:A:978:GLN:NE2	1:A:2594:ASP:OD1	2.31	0.64
1:A:2841:ASN:O	1:A:2845:ASN:ND2	2.31	0.64
1:A:3262:LEU:O	1:A:3266:SER:HB3	1.98	0.64
2:B:418:GLU:OE2	2:B:426:GLN:NE2	2.29	0.64
2:B:477:SER:HB3	4:D:198:GLY:H	1.61	0.64
1:S:571:SER:O	1:S:575:ILE:HG12	1.98	0.64
1:S:4084:SER:H	1:S:4114:PRO:HB2	1.62	0.64
1:A:169:THR:HA	1:A:172:GLU:HG2	1.80	0.64
1:A:897:PRO:HA	1:A:902:LYS:HG3	1.80	0.64
1:A:1673:THR:HA	1:A:1676:ILE:HD12	1.80	0.64
3:L:9:ALA:HB3	3:L:130:ARG:HG3	1.79	0.64
1:S:953:GLN:HG2	1:S:954:GLY:H	1.61	0.64
1:S:2473:MET:O	1:S:2477:LEU:HG	1.96	0.64
1:A:3133:GLN:NE2	1:A:3170:ASP:OD2	2.31	0.64
1:A:3679:ASN:OD1	1:A:3680:LEU:N	2.28	0.64
1:A:3723:ASP:OD1	1:A:3725:ARG:NH2	2.28	0.64
1:S:736:LEU:HB3	1:S:740:ILE:HD11	1.79	0.64
2:B:534:TYR:OH	3:C:260:ARG:NH2	2.31	0.64
1:S:1711:ARG:HA	1:S:1714:LEU:HD12	1.78	0.64
1:A:1953:CYS:HB3	1:A:2100:LEU:HD12	1.80	0.64
1:A:3034:PRO:HD2	1:A:3037:GLN:OE1	1.98	0.64
1:A:3472:ILE:HA	1:A:3479:THR:HG21	1.80	0.64
3:C:656:ASN:HB3	3:C:688:LYS:HA	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:26:LYS:HD2	5:G:27:THR:HG23	1.79	0.64
3:L:455:ASP:HB2	2:T:388:LYS:HD2	1.79	0.64
1:A:658:THR:OG1	1:A:659:ARG:NH1	2.31	0.64
1:A:1795:VAL:HG13	1:A:1839:PHE:HD1	1.62	0.64
1:A:3244:ASP:HB2	1:A:3247:ARG:HH21	1.62	0.64
1:S:790:LYS:HA	1:S:869:ASN:HB3	1.80	0.64
1:S:1679:LEU:HD22	1:S:1693:VAL:HG12	1.79	0.64
1:S:2507:ILE:HA	1:S:2510:LEU:HD12	1.80	0.64
1:S:3675:LYS:NZ	1:S:3676:PRO:O	2.30	0.64
2:T:329:LEU:HD11	2:T:333:GLU:HG3	1.79	0.64
1:A:119:ARG:HG3	1:A:122:LYS:HD3	1.79	0.63
1:A:175:TYR:HB2	1:A:223:CYS:HB3	1.79	0.63
1:A:2044:ASP:O	1:A:2048:GLY:N	2.31	0.63
2:B:288:LEU:HD13	2:B:293:ASN:HA	1.80	0.63
6:I:800:GLU:HA	6:I:805:TRP:HB2	1.80	0.63
3:L:81:ARG:NH2	3:L:85:LEU:O	2.29	0.63
1:S:895:ALA:HA	1:S:904:VAL:HA	1.80	0.63
1:S:1071:ASN:HB3	1:S:1074:LYS:HD2	1.79	0.63
1:A:2227:LYS:O	1:A:2228:ARG:HD3	1.96	0.63
1:A:3040:TYR:HB3	1:A:3044:MET:HE3	1.81	0.63
1:A:3348:LEU:HA	1:A:3351:ILE:HD12	1.79	0.63
1:S:863:GLY:HA3	1:S:3168:TYR:HB2	1.81	0.63
1:A:2863:CYS:HA	1:A:2869:LEU:HD21	1.80	0.63
2:B:34:GLY:HA2	2:B:160:LYS:HG3	1.79	0.63
1:S:976:VAL:HG22	1:S:2598:ARG:HH21	1.62	0.63
1:S:3150:ASN:HD21	1:S:3193:ILE:HG12	1.63	0.63
1:A:582:THR:HG23	1:A:615:ALA:HB3	1.81	0.63
1:A:1139:GLU:HA	1:A:1197:LEU:HD11	1.78	0.63
1:A:2978:LYS:NZ	1:A:2980:ASP:O	2.32	0.63
1:A:3657:SER:N	1:A:3660:ASN:OD1	2.32	0.63
1:A:4125:GLU:HG3	1:A:4128:MET:HB2	1.80	0.63
1:S:1069:HIS:HB2	1:S:1074:LYS:HD3	1.79	0.63
1:S:1121:LEU:HG	1:S:1123:THR:H	1.62	0.63
1:A:960:GLN:O	1:A:964:ARG:HG2	1.97	0.63
1:A:1117:ASP:OD1	1:A:1118:GLU:N	2.27	0.63
1:A:2090:ARG:N	1:A:2180:GLU:OE1	2.31	0.63
1:A:2147:ALA:O	1:A:2151:ILE:HG13	1.98	0.63
1:A:2512:ASP:HB2	1:A:2518:GLN:HG2	1.80	0.63
1:A:2577:PHE:HB2	1:A:2783:ILE:HB	1.80	0.63
2:B:299:LYS:HG3	3:C:294:VAL:HB	1.81	0.63
3:C:497:ARG:HD3	3:C:501:PRO:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3948:SER:HA	1:S:3951:GLN:HB3	1.81	0.63
1:A:755:ALA:O	1:A:759:GLY:N	2.23	0.63
1:A:3245:SER:HA	1:A:3248:LYS:HE2	1.81	0.63
1:A:3960:PRO:HB3	1:A:4107:LEU:HD11	1.81	0.63
1:S:1780:SER:HB2	1:S:1784:ARG:HH12	1.63	0.63
1:A:357:LYS:HA	1:A:406:ARG:HH22	1.63	0.63
2:B:253:LYS:NZ	3:C:434:MET:O	2.32	0.63
1:S:229:SER:HA	1:S:278:HIS:HE1	1.64	0.63
1:S:538:ASP:OD1	1:S:561:ASN:ND2	2.31	0.63
1:S:1624:GLN:O	1:S:1628:LYS:NZ	2.27	0.63
1:A:655:LEU:O	1:A:659:ARG:NH1	2.32	0.63
1:A:1750:LEU:HD13	1:A:1758:LEU:HB2	1.80	0.63
5:G:181:ILE:HG13	6:I:774:LEU:HD22	1.80	0.63
5:P:21:GLN:HB2	5:P:33:VAL:HG23	1.79	0.63
5:Q:20:LEU:HD21	5:Q:37:THR:H	1.64	0.63
1:S:23:ASP:OD2	1:S:71:LYS:NZ	2.27	0.63
1:S:420:VAL:O	1:S:424:LEU:N	2.29	0.63
1:A:652:GLU:HA	1:A:655:LEU:HD12	1.81	0.63
1:S:1231:GLN:HE22	1:S:1292:LYS:HB2	1.63	0.63
1:S:2723:THR:HA	1:S:2726:LEU:HD13	1.81	0.63
1:S:3324:ARG:HB2	1:S:3391:ALA:HB3	1.81	0.63
1:A:385:TYR:O	1:A:389:ILE:HG12	1.99	0.62
1:A:672:ILE:O	1:A:676:ASN:ND2	2.31	0.62
1:A:1751:GLU:O	1:A:1788:ARG:NH1	2.29	0.62
1:S:1803:GLU:OE1	1:S:1806:ARG:NH2	2.32	0.62
1:A:362:ALA:O	1:A:366:TYR:N	2.30	0.62
1:A:3126:LEU:O	1:A:3130:GLN:NE2	2.30	0.62
3:C:600:VAL:O	3:C:604:GLN:HB3	1.99	0.62
3:C:602:VAL:HA	3:C:609:PHE:HD2	1.64	0.62
1:S:1514:LEU:HA	1:S:1517:LEU:HD12	1.80	0.62
2:T:485:GLN:NE2	2:T:489:ASN:OD1	2.31	0.62
1:A:325:ASN:O	1:A:329:LYS:NZ	2.29	0.62
1:A:484:HIS:O	1:A:488:ILE:HG12	1.99	0.62
1:A:635:PRO:HB3	1:A:672:ILE:HD11	1.82	0.62
1:A:1594:SER:O	1:A:1598:ASN:ND2	2.32	0.62
1:A:2212:ALA:O	1:A:2216:LEU:HG	1.99	0.62
1:A:3631:LYS:HA	1:A:3634:GLN:HE21	1.64	0.62
1:A:4127:TRP:CD1	1:A:4128:MET:HG2	2.34	0.62
1:S:631:ARG:NH1	1:S:632:GLU:HB3	2.14	0.62
1:S:3281:CYS:HB2	1:S:3301:LEU:HB3	1.79	0.62
1:S:3833:ARG:HA	1:S:3877:LYS:HE2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1261:LEU:HD21	1:A:1337:VAL:HG22	1.80	0.62
1:A:1576:ASP:HB2	1:A:1625:HIS:CE1	2.35	0.62
6:I:868:ASP:HB2	6:I:871:ARG:HD3	1.81	0.62
1:A:1622:ILE:HA	1:A:1625:HIS:HB2	1.81	0.62
1:A:3728:VAL:HG13	1:A:3736:LYS:HG2	1.81	0.62
1:A:3737:ARG:NH1	1:A:3738:ILE:O	2.31	0.62
3:C:16:VAL:O	3:C:101:GLY:N	2.32	0.62
3:C:94:ILE:HA	3:C:98:ILE:HD13	1.81	0.62
3:L:595:ALA:HA	3:L:598:PHE:CE2	2.35	0.62
1:S:621:SER:O	1:S:625:ASN:ND2	2.32	0.62
1:S:2140:LEU:HA	1:S:2143:ARG:HD3	1.82	0.62
1:S:3256:MET:SD	1:S:3287:ARG:NH1	2.73	0.62
1:S:3714:GLU:HB3	1:S:3718:ARG:NH1	2.15	0.62
1:A:197:PHE:O	1:A:201:LEU:HG	1.99	0.62
1:A:2986:PRO:O	1:A:2991:LYS:NZ	2.32	0.62
2:B:305:THR:HB	3:C:288:ASP:HA	1.80	0.62
3:L:93:ASP:HA	3:L:97:LYS:HG2	1.81	0.62
6:R:872:VAL:HA	6:R:875:PHE:HD2	1.64	0.62
1:S:923:ASP:OD2	1:S:2800:ARG:NH1	2.33	0.62
1:S:1184:ARG:NH2	1:S:1265:GLU:OE1	2.32	0.62
1:S:3592:VAL:HG23	1:S:3606:ILE:HD12	1.80	0.62
1:A:1102:GLU:HA	1:A:1154:PRO:HB3	1.82	0.62
2:B:103:TYR:CD2	2:B:135:MET:HE1	2.35	0.62
4:M:47:LEU:HD22	4:M:120:ARG:HE	1.63	0.62
1:S:1725:GLN:HG3	1:S:1728:GLU:H	1.65	0.62
1:A:1052:SER:O	1:A:1055:ASN:ND2	2.33	0.62
1:A:1413:ASP:OD1	1:A:1414:ILE:N	2.32	0.62
1:A:1771:GLN:HE22	1:A:1774:MET:HA	1.64	0.62
1:A:3824:GLU:HG2	1:A:3828:TYR:HB3	1.80	0.62
6:R:722:LYS:HD3	6:R:724:ALA:H	1.65	0.62
1:S:921:ALA:HB3	1:S:927:LYS:HB3	1.81	0.62
1:A:4049:ARG:NH2	1:A:4058:VAL:HG12	2.15	0.62
2:B:379:SER:HB2	3:C:438:LEU:HD22	1.82	0.62
3:C:492:GLN:NE2	3:C:507:PRO:O	2.33	0.62
1:A:1766:LEU:O	1:A:1822:ARG:NH1	2.33	0.62
1:A:3817:LEU:HA	1:A:3820:MET:HE2	1.81	0.62
2:B:41:LEU:HB3	2:B:88:TYR:HE1	1.64	0.62
2:B:315:ASP:OD1	3:C:282:LYS:NZ	2.33	0.62
6:I:712:ILE:HB	6:I:718:HIS:CE1	2.35	0.62
1:S:179:GLY:HA2	1:S:231:LEU:HG	1.81	0.62
1:S:901:MET:HG2	1:S:903:PRO:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3665:MET:HA	1:S:3668:LEU:HG	1.80	0.62
2:T:105:LEU:HG	2:T:106:GLN:HG3	1.81	0.62
1:A:1017:ILE:HG23	1:A:1077:GLY:HA3	1.82	0.61
1:A:2402:LEU:HD23	1:A:2438:ILE:HG13	1.82	0.61
1:A:3577:GLN:HG3	1:A:3629:ARG:HD3	1.82	0.61
3:C:404:GLN:NE2	3:C:421:TYR:OH	2.32	0.61
1:S:1881:TYR:HE2	1:S:1953:CYS:HB2	1.65	0.61
2:T:59:PRO:HD3	2:T:206:LYS:HZ2	1.64	0.61
1:A:135:LEU:HD21	1:A:177:LEU:HA	1.82	0.61
1:A:476:ARG:HH22	1:A:1562:LEU:HD23	1.64	0.61
1:A:2122:LEU:HG	1:A:2126:MET:HB2	1.81	0.61
2:B:420:LEU:HB3	2:B:424:LYS:HA	1.81	0.61
3:L:522:VAL:HA	3:L:525:LYS:HE2	1.81	0.61
1:S:921:ALA:O	1:S:927:LYS:NZ	2.22	0.61
1:S:2965:TYR:HB3	1:S:3001:CYS:HB2	1.82	0.61
1:A:618:LYS:HD2	1:A:2034:SER:HB2	1.81	0.61
1:A:1284:THR:HG23	1:A:1285:GLU:HG3	1.82	0.61
6:R:800:GLU:HA	6:R:805:TRP:HB2	1.81	0.61
1:S:2322:VAL:O	1:S:2326:ILE:HG12	1.99	0.61
1:S:3359:ILE:HD12	1:S:3362:LEU:HD12	1.81	0.61
2:T:255:ALA:HA	2:T:274:TYR:HE1	1.64	0.61
1:A:348:ILE:HG22	1:A:359:LEU:HD23	1.82	0.61
1:A:418:ALA:HB2	1:A:464:VAL:HG12	1.83	0.61
3:L:339:CYS:SG	3:L:394:ARG:NH1	2.73	0.61
1:S:2866:ALA:HB1	1:S:2899:ARG:HG3	1.83	0.61
1:S:3353:GLU:HA	1:S:3357:ARG:HD3	1.81	0.61
1:A:15:LEU:HD12	1:A:41:GLU:HG3	1.83	0.61
1:A:384:MET:HA	1:A:387:GLU:HG2	1.83	0.61
2:T:44:ALA:O	2:T:138:GLY:N	2.33	0.61
1:A:1017:ILE:HG21	1:A:1066:LEU:HD21	1.80	0.61
1:A:1444:ASP:O	1:A:1448:LEU:HG	2.00	0.61
1:A:2470:ARG:HA	1:A:2473:MET:HE3	1.83	0.61
1:A:3733:ARG:HE	1:A:3754:GLY:HA3	1.66	0.61
1:A:3986:HIS:HA	1:A:3989:ARG:HE	1.65	0.61
1:A:3995:PRO:HA	1:A:3998:LEU:HB3	1.81	0.61
3:C:595:ALA:HA	3:C:598:PHE:CE2	2.36	0.61
4:D:71:ASP:O	4:D:75:ARG:NH1	2.33	0.61
1:S:1709:GLU:HG2	1:S:1710:LEU:HD12	1.83	0.61
1:S:2326:ILE:O	1:S:2330:VAL:N	2.33	0.61
1:A:953:GLN:H	1:A:956:PRO:HD3	1.66	0.61
1:A:1483:LEU:HA	1:A:1514:LEU:HD21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1686:LEU:HD11	1:A:1738:ASN:HB3	1.82	0.61
1:A:3462:ARG:NH2	1:A:3497:SER:OG	2.34	0.61
2:B:399:ARG:NH2	3:C:516:LEU:O	2.34	0.61
1:S:855:VAL:O	1:S:859:LEU:HG	2.01	0.61
1:S:3575:LEU:HD13	1:S:3752:VAL:HG21	1.81	0.61
1:A:473:PRO:O	1:A:477:ASN:ND2	2.33	0.61
1:A:775:GLU:HA	1:A:778:ILE:HD12	1.83	0.61
1:A:895:ALA:HA	1:A:904:VAL:HA	1.82	0.61
1:A:1354:GLU:HA	1:A:1357:LYS:HB3	1.82	0.61
1:A:2383:PHE:HB3	1:A:2418:LYS:HE3	1.82	0.61
1:A:3142:ILE:O	1:A:3147:LYS:NZ	2.23	0.61
5:Q:37:THR:HG22	5:Q:39:GLY:H	1.64	0.61
1:S:1663:THR:O	1:S:1665:HIS:ND1	2.34	0.61
1:S:2233:HIS:CE1	1:S:2237:ILE:HD11	2.36	0.61
2:T:80:ARG:HD3	2:T:252:ARG:HE	1.65	0.61
1:S:1430:GLU:OE1	1:S:1430:GLU:N	2.33	0.61
1:S:1771:GLN:HA	1:S:1775:GLU:HG3	1.83	0.61
1:A:316:LEU:O	1:A:320:LEU:HG	2.01	0.61
1:A:4089:ILE:HB	1:A:4092:GLN:HE22	1.66	0.61
2:B:332:GLU:HA	2:B:335:GLU:HG2	1.82	0.61
3:C:269:GLN:HB3	3:C:359:ASN:OD1	2.00	0.61
5:P:3:ARG:HH21	5:P:21:GLN:HG2	1.66	0.61
1:S:370:ALA:O	1:S:374:LYS:N	2.34	0.61
1:S:935:HIS:HD2	1:S:987:LEU:HD21	1.65	0.61
1:A:87:LYS:NZ	1:A:829:VAL:O	2.24	0.60
1:A:985:GLU:HA	1:A:988:VAL:HG22	1.83	0.60
1:A:1125:GLN:OE1	1:A:1125:GLN:N	2.29	0.60
2:B:288:LEU:HA	2:B:295:PRO:HA	1.83	0.60
2:B:345:LEU:HD13	2:B:400:TYR:HD1	1.66	0.60
6:I:810:LEU:HD12	6:I:848:HIS:HA	1.82	0.60
3:L:250:ARG:NH2	3:L:258:SER:O	2.34	0.60
1:S:2785:ILE:HB	1:S:2790:LEU:HD21	1.83	0.60
1:S:3029:LYS:NZ	1:S:3067:LYS:O	2.34	0.60
1:A:93:LEU:HD23	1:A:136:GLN:HG3	1.83	0.60
2:B:168:LEU:HG	2:B:202:LEU:HD13	1.83	0.60
1:S:670:LEU:HB3	1:S:732:PHE:HE2	1.66	0.60
1:S:2254:ARG:HH22	1:S:2292:CYS:HB3	1.65	0.60
1:S:2987:THR:HG23	1:S:2990:GLU:H	1.66	0.60
1:S:3152:SER:O	1:S:3154:GLN:NE2	2.33	0.60
1:S:3165:THR:HB	1:S:3169:PRO:HG3	1.83	0.60
1:S:3554:PHE:O	1:S:3558:ILE:HG12	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:4085:LYS:HG2	1:S:4114:PRO:HB3	1.82	0.60
1:A:261:ASP:OD1	1:A:262:LEU:N	2.31	0.60
1:A:1877:LEU:HB3	1:A:1881:TYR:CZ	2.36	0.60
1:A:2943:PHE:HA	1:A:2947:ILE:HB	1.81	0.60
2:B:35:ARG:HB3	2:B:161:MET:HE1	1.82	0.60
3:C:699:GLU:O	3:C:703:LYS:HG2	2.00	0.60
3:C:729:LEU:HA	1:S:1913:LYS:HB3	1.83	0.60
3:L:389:MET:HG2	2:T:466:VAL:HG11	1.83	0.60
1:S:1296:PHE:O	1:S:1300:SER:N	2.35	0.60
1:A:559:SER:OG	1:A:560:LEU:N	2.32	0.60
1:A:2410:GLU:O	1:A:2414:GLN:NE2	2.29	0.60
1:A:2587:GLN:HG2	1:A:2777:HIS:HB3	1.84	0.60
1:A:3686:TRP:HE1	1:A:3696:ARG:HH22	1.48	0.60
1:S:3769:GLN:HG3	1:S:3790:THR:HG21	1.83	0.60
1:A:835:LYS:HA	1:A:838:LYS:HB2	1.82	0.60
1:A:923:ASP:O	1:A:926:THR:N	2.33	0.60
1:A:1149:LYS:HB2	1:A:1151:ARG:HH11	1.67	0.60
1:A:1153:LEU:HD22	1:A:1160:SER:HB2	1.83	0.60
1:A:1622:ILE:HD12	1:A:1625:HIS:HB2	1.83	0.60
1:A:1816:ARG:NH2	3:C:624:LEU:O	2.34	0.60
1:A:2274:ILE:HD13	1:A:2319:ALA:HB2	1.83	0.60
1:A:2399:GLU:HA	1:A:2402:LEU:HD12	1.83	0.60
2:B:34:GLY:HA3	2:B:162:SER:HB3	1.82	0.60
2:B:145:GLU:OE1	2:B:145:GLU:N	2.35	0.60
3:L:332:LYS:HG3	2:T:486:HIS:CE1	2.37	0.60
1:S:1909:ASN:OD1	1:S:1910:GLU:N	2.35	0.60
1:A:1296:PHE:O	1:A:1300:SER:N	2.34	0.60
1:A:1620:THR:O	1:A:1624:GLN:NE2	2.35	0.60
1:A:1776:GLU:O	1:A:1779:GLN:NE2	2.34	0.60
1:A:3835:PRO:HA	1:A:3839:TYR:HD2	1.67	0.60
1:A:3842:TRP:O	1:A:3851:ASP:N	2.34	0.60
1:A:3992:ARG:NH1	1:A:4051:LEU:O	2.35	0.60
1:A:4008:GLU:HG3	1:A:4011:PHE:HB2	1.82	0.60
2:B:230:ARG:O	2:B:232:HIS:ND1	2.35	0.60
2:B:288:LEU:HD21	3:C:322:PRO:HA	1.83	0.60
2:B:291:GLU:HB3	6:I:690:VAL:HG23	1.84	0.60
6:R:694:GLY:HA2	2:T:290:ARG:HD3	1.81	0.60
1:S:1153:LEU:HD13	1:S:1160:SER:HA	1.81	0.60
1:S:2510:LEU:O	1:S:2518:GLN:NE2	2.28	0.60
1:A:1915:LEU:HD13	1:A:1918:LEU:HD12	1.83	0.60
1:A:3564:GLN:HG2	1:A:3697:ASN:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:81:ASP:O	2:B:110:ASN:ND2	2.32	0.60
3:L:450:GLN:NE2	3:L:536:LEU:O	2.30	0.60
4:M:37:PHE:HZ	4:M:72:ILE:HB	1.67	0.60
1:S:1369:MET:HG3	1:S:1415:LEU:HD13	1.82	0.60
1:S:1685:ASP:HB3	1:S:1688:LEU:HG	1.81	0.60
1:S:2271:SER:O	1:S:2274:ILE:HB	2.01	0.60
2:T:317:LYS:NZ	2:T:330:GLU:OE2	2.35	0.60
1:A:3497:SER:O	1:A:3766:GLN:NE2	2.34	0.60
1:A:4121:TRP:HD1	1:A:4123:GLY:H	1.49	0.60
3:C:448:GLU:OE2	3:C:452:ASN:ND2	2.34	0.60
1:S:1784:ARG:HG3	1:S:1787:ARG:HH12	1.67	0.60
1:S:2851:PHE:HB3	1:S:2854:PHE:HB3	1.84	0.60
1:S:3762:GLN:HG2	1:S:3766:GLN:HE21	1.66	0.60
2:T:76:ILE:HG21	2:T:247:ARG:HA	1.83	0.60
1:A:2473:MET:HA	1:A:2476:ILE:HD12	1.84	0.60
1:A:3965:ARG:O	1:A:3969:ASN:N	2.32	0.60
2:B:464:ALA:O	2:B:468:LYS:HG2	2.01	0.60
2:B:480:ASN:HB3	2:B:483:LEU:HB2	1.83	0.60
3:C:74:TYR:H	3:C:109:ASP:HB3	1.66	0.60
3:L:320:ILE:HD13	2:T:286:ILE:HG21	1.83	0.60
1:S:175:TYR:HA	1:S:178:LEU:HD12	1.83	0.60
1:S:1570:GLU:HA	1:S:1573:LYS:HE2	1.82	0.60
1:S:2460:GLU:OE1	1:S:2460:GLU:N	2.32	0.60
1:S:3880:ALA:HA	1:S:3966:GLN:HE22	1.67	0.60
1:S:3940:ILE:HG13	1:S:3941:ASP:H	1.66	0.60
1:A:2597:PHE:HE2	1:A:2766:ASP:H	1.50	0.60
1:A:2936:TYR:HA	1:A:2939:LEU:HG	1.83	0.60
1:A:4086:ASP:HA	1:A:4089:ILE:HG12	1.83	0.60
3:C:678:VAL:O	3:C:682:GLY:N	2.35	0.60
3:L:381:ILE:HG13	3:L:417:GLU:HB3	1.83	0.60
1:S:1817:GLN:HB3	1:S:1868:THR:HB	1.83	0.60
1:S:2928:LYS:HG2	1:S:2931:ARG:HH21	1.66	0.60
1:S:4055:ASN:ND2	1:S:4091:ALA:O	2.33	0.60
1:A:152:LEU:HA	1:A:155:LYS:HG2	1.83	0.59
1:A:718:MET:HA	1:A:721:TYR:CD2	2.36	0.59
1:A:888:ARG:HB3	1:A:3889:ARG:HH12	1.67	0.59
1:A:1326:GLU:HG3	1:A:1329:ARG:HG2	1.84	0.59
1:A:1428:ILE:HA	1:A:1431:LEU:HB2	1.83	0.59
1:A:3118:ASP:H	1:A:3121:LEU:HD12	1.67	0.59
4:D:96:LEU:HD13	4:D:109:LEU:HD13	1.84	0.59
3:L:19:THR:HG21	3:L:140:SER:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:183:VAL:HG22	5:P:187:LYS:HE2	1.84	0.59
1:S:3338:ALA:HB2	1:S:3377:LEU:HB2	1.84	0.59
2:T:109:ASP:O	2:T:115:ARG:NH1	2.35	0.59
2:T:213:ILE:HD12	2:T:218:ARG:HE	1.66	0.59
2:T:526:LYS:O	2:T:530:TYR:N	2.35	0.59
1:A:581:LEU:HB3	1:A:660:LEU:HD12	1.83	0.59
1:A:1115:HIS:CE1	1:A:1182:GLU:H	2.19	0.59
1:A:2395:THR:OG1	1:A:2431:ARG:NH1	2.36	0.59
1:A:3258:LEU:O	1:A:3262:LEU:HG	2.03	0.59
3:L:250:ARG:HH21	2:T:536:PRO:HB2	1.67	0.59
1:S:243:GLN:O	1:S:246:ARG:HG2	2.02	0.59
1:S:2266:ASN:OD1	1:S:2267:SER:N	2.35	0.59
1:A:1787:ARG:HB3	1:A:1830:HIS:HE1	1.67	0.59
1:A:3410:ILE:HG23	1:A:3453:ALA:HB1	1.84	0.59
2:B:507:THR:OG1	3:C:394:ARG:NH1	2.35	0.59
6:I:746:MET:O	6:I:751:LYS:NZ	2.35	0.59
3:L:278:VAL:HG13	2:T:316:THR:HB	1.84	0.59
1:S:834:LEU:O	1:S:837:THR:OG1	2.20	0.59
1:S:3714:GLU:HB3	1:S:3718:ARG:HH12	1.67	0.59
1:A:919:LEU:HD12	1:A:968:VAL:HG23	1.83	0.59
2:B:348:MET:HB2	2:B:397:LEU:HG	1.83	0.59
3:C:493:CYS:HB3	3:C:505:LEU:HD13	1.84	0.59
3:L:628:GLU:HB2	3:L:631:TYR:HB3	1.83	0.59
1:S:1210:ASP:HA	1:S:1213:LYS:HD2	1.83	0.59
1:S:1416:GLU:O	1:S:1419:LEU:HB3	2.02	0.59
1:S:2374:LEU:HB2	1:S:2377:ARG:HH22	1.67	0.59
1:S:2555:LEU:HD13	1:S:2806:LYS:HB3	1.83	0.59
1:S:2724:ASP:OD1	1:S:2725:LEU:N	2.36	0.59
1:S:3875:GLU:HG3	1:S:3965:ARG:HE	1.66	0.59
1:A:3462:ARG:NH1	1:A:3495:PHE:H	2.01	0.59
1:A:3588:TRP:HD1	1:A:3609:MET:HG3	1.67	0.59
1:A:4113:ASP:O	1:A:4117:LEU:HG	2.02	0.59
1:S:732:PHE:CE1	1:S:736:LEU:HD21	2.38	0.59
1:S:2371:PHE:HD2	1:S:2374:LEU:HD23	1.67	0.59
1:S:2597:PHE:HA	1:S:2598:ARG:NH1	2.17	0.59
1:S:3700:GLU:HG2	1:S:3718:ARG:HD2	1.84	0.59
2:T:41:LEU:HD13	2:T:86:VAL:HG13	1.85	0.59
1:A:1086:TYR:HA	1:A:1089:PHE:HB3	1.85	0.59
1:A:1871:MET:CE	1:A:1940:TYR:HA	2.32	0.59
1:A:3110:PHE:CD2	1:A:3135:LEU:HD11	2.37	0.59
3:C:197:ILE:O	3:C:202:LYS:NZ	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:529:PRO:HA	3:C:532:LYS:HG2	1.84	0.59
1:S:2344:LEU:HD23	1:S:2347:LYS:HZ1	1.67	0.59
1:A:11:SER:HA	1:A:14:ARG:HD3	1.85	0.59
1:A:2586:PHE:HD1	1:A:2778:GLY:HA3	1.68	0.59
1:A:3679:ASN:HB2	1:A:3725:ARG:HG2	1.84	0.59
3:C:287:GLU:OE1	3:C:287:GLU:N	2.35	0.59
6:I:715:SER:O	6:I:745:HIS:NE2	2.35	0.59
1:S:643:GLU:HA	1:S:646:VAL:HG13	1.84	0.59
2:T:247:ARG:NH2	2:T:491:GLU:OE1	2.36	0.59
2:B:161:MET:O	2:B:164:LYS:NZ	2.33	0.59
2:B:350:PHE:HB2	3:C:462:SER:HA	1.83	0.59
6:R:778:PHE:HA	6:R:781:ILE:HD12	1.84	0.59
1:S:1625:HIS:HA	1:S:1628:LYS:HE2	1.84	0.59
1:S:1747:LEU:HD13	1:S:1777:LEU:HD22	1.85	0.59
1:S:1795:VAL:HG22	1:S:1839:PHE:HB2	1.84	0.59
1:S:2467:THR:HA	1:S:2470:ARG:HE	1.68	0.59
1:S:2804:ILE:HD13	1:S:2807:GLN:HE21	1.68	0.59
1:S:2923:TRP:HE3	1:S:2942:ILE:HG23	1.68	0.59
1:A:2428:ASP:HB2	1:A:2431:ARG:HD3	1.84	0.59
1:A:3778:ASP:HB3	1:A:3781:CYS:HB3	1.84	0.59
2:B:213:ILE:HG12	2:B:231:VAL:HA	1.85	0.59
3:C:253:ILE:HB	3:C:257:LEU:HB2	1.83	0.59
5:H:166:VAL:HG11	6:I:846:ARG:HB3	1.85	0.59
1:S:756:PHE:O	1:S:760:LEU:N	2.36	0.59
1:A:671:SER:HB3	1:A:732:PHE:HA	1.85	0.59
1:A:775:GLU:HB2	1:A:779:TYR:CE2	2.37	0.59
2:B:203:MET:SD	2:B:237:SER:HB2	2.42	0.59
3:C:242:ARG:NH1	3:C:243:HIS:O	2.35	0.59
3:L:486:ARG:HG3	2:T:407:PRO:HB3	1.85	0.59
6:R:814:ARG:H	6:R:849:GLY:CA	2.15	0.59
1:S:714:VAL:HG23	1:S:733:LEU:HD21	1.84	0.59
1:S:2949:THR:N	1:S:2990:GLU:OE2	2.35	0.59
1:A:281:GLN:OE1	1:A:281:GLN:N	2.35	0.58
1:A:2574:ASN:O	1:A:2787:HIS:ND1	2.36	0.58
1:A:3572:ILE:HG23	1:A:3800:LEU:HD23	1.85	0.58
1:A:3835:PRO:HA	1:A:3839:TYR:CD2	2.38	0.58
2:B:282:LYS:HZ1	2:B:483:LEU:HA	1.66	0.58
3:C:510:GLN:NE2	3:C:514:ASN:OD1	2.27	0.58
1:S:240:GLU:HB2	1:S:242:PRO:HD2	1.84	0.58
1:S:1750:LEU:HD21	1:S:1759:LEU:HD23	1.84	0.58
1:S:1840:PHE:CD1	1:S:1880:MET:HG2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2396:LEU:O	1:S:2400:VAL:HG23	2.03	0.58
1:S:3784:ARG:HH21	1:S:3986:HIS:HB3	1.66	0.58
1:A:736:LEU:HD23	1:A:740:ILE:HG21	1.85	0.58
1:A:1430:GLU:OE1	1:A:1430:GLU:N	2.34	0.58
1:A:1925:GLU:HB2	1:A:1941:HIS:CE1	2.39	0.58
1:A:3369:ASP:HB3	1:A:3372:LYS:HE2	1.84	0.58
1:A:3492:CYS:HB2	1:A:3709:GLY:HA2	1.85	0.58
3:C:450:GLN:HB3	3:C:537:PHE:CZ	2.38	0.58
1:S:1710:LEU:O	1:S:1714:LEU:HG	2.02	0.58
1:S:2209:GLU:HB3	1:S:2248:CYS:HB2	1.85	0.58
1:S:2225:HIS:HE1	1:S:2734:ARG:HH11	1.51	0.58
1:A:1112:ALA:HB1	1:A:1180:GLN:HG3	1.85	0.58
1:A:1862:THR:HA	3:C:718:VAL:HG21	1.85	0.58
1:A:3387:GLU:HA	1:A:3390:GLN:HG3	1.84	0.58
3:C:65:ASP:HB3	3:C:79:VAL:H	1.68	0.58
3:C:656:ASN:ND2	3:C:689:GLU:H	1.99	0.58
3:L:184:ARG:NH1	3:L:514:ASN:O	2.36	0.58
1:S:1231:GLN:HE21	1:S:1235:ILE:HD11	1.66	0.58
1:A:1389:VAL:O	1:A:1392:MET:HG2	2.03	0.58
1:A:1416:GLU:HG3	1:A:1420:ARG:HH12	1.68	0.58
1:A:1574:ASN:ND2	1:A:1578:ALA:H	2.00	0.58
1:A:1954:CYS:SG	1:A:1955:VAL:N	2.75	0.58
1:A:4053:GLY:O	1:A:4097:GLY:N	2.30	0.58
3:L:463:LEU:HG	2:T:349:GLY:HA3	1.85	0.58
1:S:1062:ARG:NH1	1:S:1065:SER:OG	2.36	0.58
1:A:3805:TRP:HH2	1:A:3929:MET:HG3	1.68	0.58
1:A:3829:LEU:HD22	1:A:3833:ARG:HD2	1.86	0.58
2:B:282:LYS:HZ3	2:B:483:LEU:HD23	1.68	0.58
3:C:659:LEU:HD22	3:C:686:ILE:HA	1.85	0.58
3:L:415:ASN:HB2	2:T:448:PHE:HE1	1.67	0.58
1:S:2313:LYS:HA	1:S:2316:TYR:CZ	2.39	0.58
1:S:3170:ASP:HB3	1:S:3174:ASP:OD2	2.03	0.58
1:S:3595:GLU:O	1:S:3601:VAL:N	2.36	0.58
1:A:394:GLN:HG3	1:A:1737:ASN:HB3	1.86	0.58
1:A:1066:LEU:HD23	1:A:1078:ALA:HB2	1.84	0.58
1:A:2893:LEU:HB3	1:A:2926:LEU:HD13	1.84	0.58
1:A:3419:PHE:O	1:A:3422:GLN:HG3	2.04	0.58
2:B:426:GLN:H	3:C:434:MET:HE1	1.68	0.58
3:C:501:PRO:HD2	3:C:502:ARG:HH11	1.68	0.58
5:H:184:LEU:HD21	6:I:803:TYR:HE2	1.68	0.58
3:L:297:LEU:O	3:L:302:GLU:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:754:MET:HG2	1:S:758:LEU:HD23	1.85	0.58
1:S:899:ARG:NH2	1:S:2533:SER:O	2.36	0.58
1:S:2847:THR:OG1	1:S:2849:SER:O	2.21	0.58
2:T:60:PHE:O	2:T:64:ILE:HG12	2.04	0.58
1:A:1555:HIS:O	1:A:1559:PHE:N	2.28	0.58
1:A:1582:LEU:HD11	1:A:1593:VAL:HA	1.85	0.58
1:A:2388:LYS:NZ	2:B:157:VAL:O	2.23	0.58
1:A:3812:LEU:HB2	1:A:3925:LEU:HD21	1.86	0.58
2:B:167:MET:HE1	2:B:203:MET:HG2	1.86	0.58
1:S:1413:ASP:OD1	1:S:1414:ILE:N	2.35	0.58
1:S:2231:PHE:O	1:S:2235:LEU:HG	2.03	0.58
5:H:43:TRP:CD1	5:H:116:VAL:HG12	2.38	0.58
6:R:812:MET:H	6:R:848:HIS:CB	2.16	0.58
1:S:754:MET:HA	1:S:757:LYS:HG2	1.84	0.58
1:S:2105:HIS:CG	1:S:2156:VAL:HG23	2.39	0.58
1:A:297:LEU:HD22	1:A:316:LEU:HG	1.85	0.58
1:A:1676:ILE:O	1:A:1680:ALA:N	2.35	0.58
1:A:1793:THR:O	1:A:1797:LEU:HG	2.04	0.58
1:A:3050:LYS:O	1:A:3054:GLN:HB2	2.03	0.58
1:A:3759:ARG:HG3	1:A:3760:GLN:HE21	1.67	0.58
2:B:86:VAL:HG22	2:B:104:VAL:HG23	1.85	0.58
2:B:92:LYS:HE2	2:B:135:MET:HA	1.86	0.58
2:B:346:MET:HB2	2:B:399:ARG:HB3	1.86	0.58
2:B:484:GLN:NE2	2:B:488:ARG:HH22	2.01	0.58
3:C:74:TYR:HD1	3:C:113:VAL:HG23	1.68	0.58
1:S:631:ARG:HB2	1:S:672:ILE:HG13	1.86	0.58
1:S:898:PHE:HB2	1:S:901:MET:O	2.04	0.58
1:S:2120:ARG:N	1:S:2159:PRO:O	2.37	0.58
1:S:2211:LEU:HA	1:S:2214:ARG:HD3	1.86	0.58
1:A:1632:TRP:CD1	1:A:1641:THR:HB	2.38	0.58
1:A:3082:TYR:O	1:A:3086:LEU:HG	2.04	0.58
3:C:45:GLN:NE2	3:C:50:ASN:OD1	2.36	0.58
1:S:1915:LEU:HD13	1:S:1918:LEU:HD12	1.84	0.58
1:A:89:LEU:HB3	1:A:133:LYS:HE3	1.86	0.57
1:A:2349:LEU:HB3	1:A:2360:PHE:HE1	1.69	0.57
1:A:3773:GLY:O	1:A:3777:GLN:NE2	2.28	0.57
1:A:3923:ARG:O	1:A:3962:ARG:NH1	2.37	0.57
3:C:347:LYS:HG3	3:C:349:SER:H	1.68	0.57
1:S:1296:PHE:HA	1:S:1299:GLU:HG2	1.85	0.57
1:S:1949:ILE:HG23	1:S:2100:LEU:HD22	1.85	0.57
1:S:2168:LEU:O	1:S:2172:ALA:N	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1463:LEU:HD12	1:A:1466:ASN:HB2	1.86	0.57
1:A:2167:PRO:HA	1:A:2170:GLN:HE21	1.69	0.57
1:A:3477:GLU:HG2	1:A:3478:GLU:H	1.69	0.57
6:I:810:LEU:HB2	6:I:848:HIS:CG	2.39	0.57
1:S:1629:CYS:SG	1:S:1632:TRP:HZ3	2.27	0.57
1:S:1727:ARG:NH2	1:S:1770:GLN:O	2.37	0.57
1:S:3575:LEU:HD22	1:S:3752:VAL:HG11	1.85	0.57
1:A:981:ARG:O	1:A:984:TYR:N	2.36	0.57
1:A:1949:ILE:HG23	1:A:2100:LEU:HD13	1.86	0.57
1:A:2438:ILE:O	1:A:2442:MET:HG3	2.05	0.57
2:B:275:ASN:OD1	3:C:431:ARG:NH1	2.37	0.57
3:C:62:ASP:HA	3:C:103:GLN:HG2	1.86	0.57
1:S:1261:LEU:HD22	1:S:1336:THR:HG22	1.86	0.57
1:S:2538:ARG:HD2	1:S:2565:MET:SD	2.44	0.57
1:S:3702:PRO:O	1:S:3792:SER:OG	2.23	0.57
2:T:193:LEU:HB3	2:T:198:ILE:HB	1.85	0.57
1:A:125:ILE:H	1:A:125:ILE:HD12	1.69	0.57
1:A:437:HIS:O	1:A:441:MET:HG2	2.05	0.57
1:A:2869:LEU:HD22	1:A:2896:ALA:HB2	1.86	0.57
1:A:3531:TYR:CD2	1:A:3794:VAL:HB	2.39	0.57
2:B:200:LEU:HD11	2:B:221:ILE:HA	1.86	0.57
2:B:457:GLU:HG3	2:B:528:LEU:HD21	1.84	0.57
6:I:769:THR:HA	6:I:773:GLN:NE2	2.19	0.57
3:L:354:ARG:HA	2:T:365:SER:HB3	1.86	0.57
1:S:417:VAL:HA	1:S:420:VAL:HG22	1.87	0.57
1:S:681:LYS:NZ	1:S:683:PHE:O	2.30	0.57
1:S:750:PRO:O	1:S:753:GLN:HB2	2.04	0.57
1:S:785:MET:HA	1:S:788:TYR:CZ	2.40	0.57
1:S:3946:PHE:HB2	1:S:4043:LYS:HD2	1.86	0.57
1:A:1168:LEU:HA	1:A:1171:TRP:HB3	1.86	0.57
1:A:1632:TRP:HD1	1:A:1641:THR:HB	1.69	0.57
1:A:3295:GLU:HA	1:A:3298:LEU:HD12	1.87	0.57
1:A:3533:PHE:O	1:A:3537:SER:OG	2.20	0.57
1:A:3856:MET:HG3	1:A:3860:LYS:NZ	2.19	0.57
3:C:342:VAL:HA	3:C:393:VAL:HG12	1.86	0.57
3:C:656:ASN:ND2	3:C:690:GLU:OE1	2.37	0.57
6:I:721:VAL:HG23	6:I:742:PHE:CD2	2.39	0.57
3:L:220:GLY:O	3:L:223:GLU:HB3	2.04	0.57
3:L:416:TYR:HA	2:T:451:LYS:HB2	1.84	0.57
1:S:612:LEU:HG	1:S:614:PRO:HD3	1.87	0.57
1:S:1614:GLN:HA	1:S:1617:LYS:HE2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1766:LEU:HD13	1:S:1778:PHE:CD1	2.39	0.57
1:S:3278:GLN:OE1	1:S:3326:GLN:NE2	2.34	0.57
2:T:71:TYR:OH	2:T:115:ARG:NH2	2.36	0.57
1:A:127:ALA:O	1:A:131:LEU:HG	2.05	0.57
1:A:417:VAL:HA	1:A:420:VAL:HG12	1.86	0.57
1:A:3254:LEU:HD13	1:A:3283:LEU:HD21	1.86	0.57
3:L:458:ILE:HG21	2:T:394:VAL:HG21	1.87	0.57
1:S:1406:LEU:HA	1:S:1409:SER:HB3	1.86	0.57
1:S:2575:PRO:HA	1:S:2786:LYS:HA	1.86	0.57
1:S:3567:VAL:HG12	1:S:3696:ARG:HH21	1.68	0.57
1:S:3874:ARG:NH2	1:S:4117:LEU:O	2.38	0.57
1:A:2328:ARG:NH1	1:A:2369:LYS:O	2.37	0.57
1:A:3718:ARG:O	1:A:3748:HIS:NE2	2.36	0.57
3:C:347:LYS:HB3	3:C:350:GLN:HG3	1.87	0.57
6:I:658:ILE:HD11	6:I:734:SER:HA	1.87	0.57
6:I:879:ARG:HG3	6:I:886:PHE:HB2	1.86	0.57
1:S:326:MET:O	1:S:330:ASN:N	2.37	0.57
1:S:493:LYS:HD3	1:S:524:TYR:HB3	1.85	0.57
1:S:2261:SER:O	1:S:2270:ASN:ND2	2.34	0.57
1:S:2563:LEU:HD13	1:S:2795:GLN:HB2	1.85	0.57
1:S:3509:ASP:HB2	1:S:3547:THR:HB	1.86	0.57
2:T:47:ALA:HB1	2:T:171:ASN:HD21	1.68	0.57
1:A:261:ASP:HB3	1:A:265:TYR:CD2	2.40	0.57
1:A:1622:ILE:O	1:A:1626:TRP:N	2.38	0.57
1:A:3920:ILE:HG21	1:A:3942:PHE:HB3	1.84	0.57
2:B:286:ILE:HG21	3:C:320:ILE:HD13	1.86	0.57
3:C:270:GLU:HB2	3:C:487:PHE:HZ	1.70	0.57
5:H:196:ASN:O	5:H:200:ASN:ND2	2.37	0.57
1:S:3113:ASN:O	1:S:3117:ILE:HG12	2.05	0.57
2:T:94:LYS:H	2:T:103:TYR:HA	1.69	0.57
2:T:421:ASP:OD1	2:T:425:ILE:N	2.35	0.57
1:A:2365:ASN:ND2	1:A:2399:GLU:OE1	2.37	0.57
1:A:3009:LYS:HD2	1:A:3012:GLU:HB3	1.85	0.57
1:A:3622:ALA:HB2	1:A:3629:ARG:HH22	1.69	0.57
1:A:3762:GLN:NE2	1:A:3795:PRO:HD2	2.19	0.57
2:B:469:LEU:HD21	2:B:518:LEU:HG	1.87	0.57
3:C:11:VAL:HG12	3:C:131:HIS:O	2.05	0.57
5:G:6:SER:HB3	5:G:76:SER:HB2	1.87	0.57
3:L:359:ASN:ND2	2:T:362:LEU:O	2.38	0.57
1:S:114:VAL:HG13	1:S:119:ARG:HE	1.70	0.57
1:S:2887:PRO:O	1:S:2891:ARG:HD3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3796:MET:HG2	1:S:3801:GLY:HA2	1.87	0.57
2:T:247:ARG:HG2	2:T:488:ARG:HH12	1.70	0.57
2:T:333:GLU:OE1	2:T:333:GLU:N	2.32	0.57
1:A:655:LEU:O	1:A:659:ARG:HG2	2.05	0.57
1:A:2239:LYS:HD3	1:A:2279:ILE:HG13	1.86	0.57
1:S:2365:ASN:HD22	1:S:2396:LEU:HG	1.68	0.57
1:A:128:LEU:HD21	1:A:171:LEU:HD23	1.86	0.56
1:A:261:ASP:HB3	1:A:265:TYR:HD2	1.70	0.56
1:A:2323:LEU:HA	1:A:2326:ILE:HD12	1.87	0.56
1:A:2587:GLN:O	1:A:2777:HIS:N	2.38	0.56
1:A:3531:TYR:O	1:A:3535:ILE:HG12	2.05	0.56
1:A:3931:ALA:O	1:A:3935:GLY:N	2.38	0.56
3:L:450:GLN:HB3	3:L:537:PHE:CZ	2.40	0.56
5:P:187:LYS:HD2	5:Q:187:LYS:HG2	1.87	0.56
6:R:810:LEU:HD21	6:R:848:HIS:CD2	2.38	0.56
1:S:2524:PHE:O	1:S:2530:ARG:NE	2.35	0.56
1:S:3417:ALA:HA	1:S:3446:VAL:HB	1.87	0.56
1:S:3767:LEU:HA	1:S:3770:VAL:HG22	1.87	0.56
1:A:756:PHE:O	1:A:760:LEU:N	2.30	0.56
1:A:1253:THR:O	1:A:1257:LEU:HG	2.05	0.56
1:A:2791:ILE:HA	1:A:2794:LEU:HD12	1.86	0.56
1:A:3240:MET:HB2	1:A:3272:TRP:CH2	2.37	0.56
2:B:304:ASN:OD1	2:B:306:SER:OG	2.20	0.56
3:C:461:MET:HE2	3:C:526:SER:HB3	1.86	0.56
3:L:636:ILE:O	3:L:640:ARG:HG2	2.05	0.56
1:S:66:LEU:O	1:S:70:ARG:CB	2.53	0.56
1:S:144:MET:SD	1:S:145:ASP:N	2.79	0.56
1:S:294:PHE:O	1:S:298:LEU:HG	2.06	0.56
1:S:336:ASN:HA	1:S:339:GLN:HB2	1.86	0.56
1:S:2133:LEU:HG	1:S:2171:LEU:HD11	1.87	0.56
1:S:2331:MET:O	1:S:2334:LYS:HG2	2.06	0.56
1:S:2414:GLN:OE1	1:S:2414:GLN:N	2.35	0.56
2:T:420:LEU:HB3	2:T:424:LYS:HA	1.86	0.56
1:A:309:LYS:O	1:A:313:LEU:HG	2.06	0.56
1:A:938:VAL:HA	1:A:941:MET:HG3	1.86	0.56
1:A:1401:ASN:HA	1:A:1404:LYS:HE2	1.87	0.56
1:A:2376:ASP:HB3	1:A:2404:ARG:HH22	1.70	0.56
1:A:3625:LEU:N	1:A:3682:GLU:O	2.38	0.56
2:B:275:ASN:ND2	2:B:277:VAL:O	2.38	0.56
2:B:296:VAL:HA	3:C:298:ASN:HB3	1.87	0.56
2:B:470:ARG:O	4:D:202:ASP:N	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:7:LYS:O	3:C:128:GLU:N	2.33	0.56
3:C:234:LEU:HD12	3:C:483:PRO:HG3	1.86	0.56
5:H:66:TYR:HE1	5:H:108:LEU:HD11	1.70	0.56
6:I:811:SER:N	6:I:848:HIS:HB3	2.20	0.56
3:L:451:LEU:HB3	2:T:388:LYS:HE3	1.88	0.56
3:L:457:LEU:O	3:L:461:MET:N	2.37	0.56
4:M:75:ARG:HD3	4:M:98:LEU:HD23	1.86	0.56
1:S:910:PHE:CE1	1:S:2807:GLN:HG3	2.39	0.56
1:S:1064:TYR:HA	1:S:1106:ILE:HG21	1.86	0.56
1:S:1201:ASN:OD1	1:S:1202:ARG:N	2.39	0.56
1:S:1224:PHE:HE1	1:S:1266:CYS:HB3	1.71	0.56
1:S:1490:GLY:O	1:S:1502:SER:N	2.39	0.56
1:S:2164:TRP:O	1:S:2167:PRO:HD2	2.04	0.56
1:S:2514:ASN:HB3	1:S:2517:LEU:HB2	1.86	0.56
1:S:3857:LEU:HA	1:S:3860:LYS:HE2	1.87	0.56
1:S:3882:LEU:HA	1:S:3885:ARG:HG3	1.87	0.56
2:T:288:LEU:HD13	2:T:293:ASN:HA	1.87	0.56
1:A:420:VAL:O	1:A:424:LEU:N	2.35	0.56
1:A:1946:ASN:HA	1:A:1949:ILE:HD12	1.86	0.56
1:A:2944:THR:HG21	1:A:3977:THR:HG21	1.87	0.56
3:C:347:LYS:NZ	3:C:387:LEU:O	2.38	0.56
5:H:67:VAL:O	5:H:71:ARG:HG3	2.06	0.56
3:L:279:VAL:HG23	2:T:317:LYS:HB2	1.86	0.56
3:L:524:THR:HA	3:L:527:GLN:HG2	1.86	0.56
6:R:832:LYS:HE2	6:R:842:ALA:HB2	1.86	0.56
1:A:721:TYR:HB2	1:A:726:LEU:HB3	1.88	0.56
1:A:2208:ASP:OD1	1:A:2209:GLU:HG3	2.06	0.56
1:A:2390:HIS:HA	1:A:2394:LYS:HE2	1.87	0.56
1:A:3603:LYS:HZ2	1:A:3647:GLY:H	1.53	0.56
2:B:367:PHE:HZ	2:B:369:TYR:HD1	1.54	0.56
1:S:465:PHE:HE1	1:S:479:ILE:HG21	1.71	0.56
1:S:1304:HIS:HD2	1:S:1307:ILE:HG23	1.69	0.56
1:S:1458:LEU:HD11	1:S:1466:ASN:HD21	1.70	0.56
1:S:2234:ASN:O	1:S:2238:ILE:HG12	2.06	0.56
1:S:3267:LYS:HA	1:S:3273:LEU:HD12	1.86	0.56
1:S:3454:LEU:HD22	1:S:3461:ALA:HB1	1.87	0.56
1:S:3718:ARG:O	1:S:3743:HIS:N	2.35	0.56
1:A:960:GLN:O	1:A:964:ARG:NH1	2.38	0.56
1:A:1201:ASN:HB3	1:A:1207:TRP:HB2	1.88	0.56
1:A:1794:GLN:O	1:A:1798:LEU:HG	2.06	0.56
1:A:2584:CYS:SG	1:A:2585:GLU:N	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3564:GLN:HE22	1:A:3699:LEU:HD23	1.70	0.56
1:A:3963:LEU:HA	1:A:3967:PHE:HD2	1.69	0.56
3:C:186:GLY:H	3:C:232:ARG:NH1	2.02	0.56
3:C:500:HIS:HB3	3:C:503:GLU:HB2	1.88	0.56
4:M:198:GLY:H	2:T:477:SER:HB2	1.71	0.56
1:S:50:VAL:O	1:S:54:GLN:NE2	2.28	0.56
1:S:1824:LEU:O	1:S:1828:LEU:HG	2.05	0.56
2:T:488:ARG:HG2	2:T:501:GLU:HB3	1.88	0.56
1:A:306:VAL:HA	1:A:309:LYS:HG3	1.88	0.56
1:A:996:THR:HG23	1:A:1043:GLN:HE21	1.71	0.56
1:A:3114:TYR:HB2	1:A:3128:LYS:HE2	1.87	0.56
1:A:3786:LEU:HB3	1:A:3910:LEU:HD12	1.87	0.56
3:C:229:GLU:OE1	3:C:229:GLU:N	2.38	0.56
3:C:270:GLU:OE1	3:C:270:GLU:N	2.39	0.56
3:L:308:GLU:O	2:T:290:ARG:NH2	2.39	0.56
1:S:538:ASP:HA	1:S:541:MET:HG2	1.87	0.56
1:S:1783:ARG:HH12	1:S:1829:TRP:HB3	1.70	0.56
1:S:3747:GLU:HG3	1:S:3749:PRO:HD3	1.88	0.56
1:A:87:LYS:HG2	1:A:831:LEU:HD13	1.88	0.56
1:A:463:LYS:HZ1	1:A:544:ILE:HD13	1.69	0.56
1:A:535:LEU:HD12	1:A:637:LYS:HG3	1.88	0.56
1:A:1149:LYS:H	1:A:1151:ARG:NH1	2.04	0.56
1:A:1307:ILE:HG23	1:A:1309:ALA:H	1.70	0.56
1:A:1558:TYR:O	1:A:1562:LEU:HG	2.06	0.56
1:A:3138:ILE:O	1:A:3142:ILE:HG23	2.05	0.56
1:A:3923:ARG:HH12	1:A:4121:TRP:HB3	1.70	0.56
2:B:206:LYS:HD2	2:B:234:GLU:HA	1.88	0.56
5:H:194:LEU:HD23	5:H:197:LYS:HD3	1.86	0.56
3:L:497:ARG:HD3	3:L:501:PRO:HA	1.87	0.56
6:R:721:VAL:HA	6:R:742:PHE:HE2	1.70	0.56
1:A:438:LEU:O	1:A:441:MET:HB2	2.06	0.56
1:A:772:ALA:HA	1:A:775:GLU:OE2	2.05	0.56
1:A:2737:GLU:O	1:A:2741:LEU:N	2.37	0.56
1:A:3530:VAL:HG23	1:A:3531:TYR:H	1.71	0.56
3:C:33:GLN:O	3:C:37:VAL:HG23	2.05	0.56
3:C:432:GLN:NE2	4:D:191:LYS:H	2.03	0.56
3:C:653:GLN:HA	3:C:656:ASN:ND2	2.21	0.56
3:L:17:GLY:HA3	3:L:104:GLN:HE22	1.70	0.56
1:S:114:VAL:HA	1:S:119:ARG:HH21	1.71	0.56
1:S:437:HIS:O	1:S:441:MET:HG2	2.06	0.56
1:S:1632:TRP:CD1	1:S:1645:VAL:HG13	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3730:ALA:HA	1:S:3734:ARG:HA	1.87	0.56
1:S:4071:ALA:HB1	1:S:4077:TYR:HE2	1.71	0.56
1:A:1058:SER:HA	1:A:1061:LYS:HE2	1.88	0.56
1:A:2507:ILE:HA	1:A:2510:LEU:HD12	1.86	0.56
1:A:2883:SER:O	1:A:2885:GLN:NE2	2.26	0.56
1:A:3749:PRO:HB2	1:A:3805:TRP:HD1	1.71	0.56
2:B:63:SER:O	2:B:67:ILE:HG12	2.06	0.56
2:B:122:PHE:CG	2:B:131:PHE:HB2	2.41	0.56
2:B:300:THR:HA	3:C:293:THR:HA	1.87	0.56
2:B:301:ARG:O	3:C:292:GLU:N	2.21	0.56
3:C:411:HIS:N	3:C:418:CYS:O	2.23	0.56
5:H:174:THR:O	5:H:178:LYS:HG2	2.06	0.56
6:I:721:VAL:HG23	6:I:742:PHE:HD2	1.69	0.56
4:M:40:TYR:HB3	4:M:47:LEU:HD11	1.88	0.56
5:Q:33:VAL:HG22	5:Q:46:THR:HB	1.88	0.56
6:R:865:ILE:HG13	6:R:889:LEU:H	1.69	0.56
1:S:100:ILE:HA	1:S:103:TYR:HD2	1.71	0.56
1:S:195:ASN:O	1:S:198:ARG:HG2	2.05	0.56
1:S:485:GLN:HA	1:S:488:ILE:HD12	1.88	0.56
1:S:1043:GLN:NE2	1:S:1044:ILE:HG12	2.20	0.56
1:S:2942:ILE:O	1:S:2945:SER:OG	2.20	0.56
1:A:450:SER:O	1:A:454:GLN:HG3	2.05	0.55
1:A:1420:ARG:HB2	1:A:1424:THR:HG22	1.88	0.55
1:A:1444:ASP:OD1	1:A:1445:ARG:N	2.38	0.55
1:A:1671:VAL:O	1:A:1675:TYR:N	2.29	0.55
1:A:3698:GLU:HB2	1:A:3718:ARG:HD3	1.88	0.55
2:B:439:PHE:HB3	3:C:483:PRO:HA	1.86	0.55
3:C:146:GLN:O	3:C:150:ILE:N	2.33	0.55
1:S:3487:ILE:HG12	1:S:3513:ALA:HB1	1.88	0.55
2:T:351:LYS:HD3	2:T:355:LEU:HB2	1.88	0.55
1:A:19:LEU:HB3	1:A:34:LEU:HD23	1.88	0.55
1:A:338:LEU:HA	1:A:342:MET:HE1	1.87	0.55
1:A:723:ASP:O	1:A:724:GLU:HG2	2.06	0.55
1:A:1672:PHE:O	1:A:1675:TYR:HB3	2.06	0.55
1:A:2391:GLY:O	1:A:2431:ARG:NH2	2.39	0.55
1:A:2482:ASP:HA	1:A:2485:ARG:HD2	1.88	0.55
1:A:3029:LYS:HE3	1:A:3074:GLN:HE22	1.71	0.55
1:A:3630:ARG:NH1	1:A:3630:ARG:O	2.39	0.55
2:B:99:PHE:CD2	2:B:145:GLU:HG3	2.42	0.55
2:B:275:ASN:HB3	2:B:366:LEU:HD13	1.88	0.55
3:C:11:VAL:HG13	3:C:132:ILE:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:30:PRO:HG3	3:L:166:PRO:HG3	1.87	0.55
1:S:439:VAL:O	1:S:442:GLN:HG3	2.05	0.55
1:S:1776:GLU:O	1:S:1779:GLN:NE2	2.39	0.55
1:S:1844:VAL:HG23	1:S:1845:VAL:H	1.70	0.55
1:S:2305:ASN:O	1:S:2308:SER:OG	2.24	0.55
1:S:2571:ASP:O	1:S:2787:HIS:ND1	2.39	0.55
1:A:1867:ILE:O	1:A:1871:MET:HG2	2.07	0.55
1:A:3266:SER:HA	1:A:3272:TRP:CD1	2.37	0.55
1:A:3819:THR:HB	1:A:3885:ARG:HG2	1.88	0.55
1:A:3820:MET:HA	1:A:3885:ARG:HH21	1.71	0.55
3:C:360:GLN:HE21	3:C:362:LEU:HD21	1.72	0.55
5:G:180:PHE:O	5:G:184:LEU:HG	2.06	0.55
3:L:249:CYS:SG	3:L:250:ARG:N	2.77	0.55
3:L:600:VAL:O	3:L:604:GLN:HB3	2.05	0.55
1:S:418:ALA:HB2	1:S:464:VAL:HG12	1.87	0.55
1:S:668:LYS:NZ	1:S:728:SER:HB3	2.21	0.55
1:S:1580:LEU:HD13	1:S:1625:HIS:CE1	2.41	0.55
1:S:2427:ARG:HH12	1:S:2429:ASP:HA	1.72	0.55
2:T:396:ALA:HB3	2:T:413:LEU:HB2	1.88	0.55
1:A:1111:LEU:HB3	1:A:1186:LYS:HE2	1.88	0.55
1:A:1824:LEU:O	1:A:1827:LEU:HD23	2.07	0.55
2:B:170:THR:H	2:B:202:LEU:HD11	1.71	0.55
3:C:163:PHE:HE2	3:C:212:MET:HG2	1.72	0.55
3:C:688:LYS:NZ	3:C:694:SER:OG	2.29	0.55
5:H:67:VAL:HA	5:H:70:LEU:HD12	1.88	0.55
6:I:707:ILE:HA	6:I:710:LYS:HG2	1.88	0.55
3:L:253:ILE:HD13	3:L:257:LEU:HG	1.88	0.55
4:M:71:ASP:OD2	4:M:73:THR:OG1	2.23	0.55
5:P:61:MET:SD	5:P:65:LYS:NZ	2.79	0.55
1:S:751:ALA:O	1:S:755:ALA:N	2.35	0.55
1:S:832:LYS:HG2	1:S:834:LEU:HD22	1.89	0.55
2:T:212:ASP:HB2	2:T:231:VAL:HG13	1.88	0.55
1:A:1357:LYS:HE2	1:A:1410:PRO:HG2	1.88	0.55
1:A:2748:VAL:HG12	1:A:2752:LYS:HE2	1.88	0.55
1:A:2887:PRO:HA	1:A:2890:ILE:HD12	1.89	0.55
1:A:3765:GLU:O	1:A:3769:GLN:NE2	2.33	0.55
2:B:487:PHE:O	2:B:490:LEU:N	2.40	0.55
6:R:665:CYS:HB3	6:R:700:VAL:HG22	1.89	0.55
1:S:992:ILE:HG23	1:S:1036:PHE:CD2	2.41	0.55
1:S:1368:LEU:H	1:S:1368:LEU:HD12	1.71	0.55
1:S:2196:TRP:CD1	1:S:2199:LEU:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2791:ILE:HA	1:S:2794:LEU:HD12	1.88	0.55
1:S:3616:ALA:O	1:S:3629:ARG:NH1	2.40	0.55
1:S:3677:PRO:HB2	1:S:3682:GLU:HB2	1.89	0.55
2:T:52:GLN:NE2	2:T:56:GLU:OE1	2.39	0.55
1:A:202:GLY:HA2	1:A:205:LYS:HD2	1.89	0.55
1:A:887:ASP:OD1	1:A:888:ARG:N	2.39	0.55
1:A:2863:CYS:HB3	1:A:2892:LEU:HB3	1.87	0.55
5:H:176:LEU:HA	5:H:179:ARG:HD2	1.88	0.55
3:L:363:LYS:HG2	2:T:446:MET:SD	2.47	0.55
3:L:484:ASN:HD21	3:L:486:ARG:HB2	1.71	0.55
5:Q:166:VAL:HG23	5:Q:169:LYS:NZ	2.21	0.55
1:S:3091:LEU:HG	1:S:3099:ALA:HB1	1.89	0.55
1:S:3525:TYR:CZ	1:S:3705:TYR:HB3	2.42	0.55
1:S:4120:THR:HG21	1:S:4126:PRO:HB3	1.88	0.55
2:T:48:MET:HA	2:T:59:PRO:HB2	1.88	0.55
2:T:183:ALA:HB1	2:T:187:ARG:HH21	1.71	0.55
1:A:294:PHE:O	1:A:298:LEU:HG	2.06	0.55
1:A:584:GLU:HB2	1:A:613:HIS:ND1	2.21	0.55
1:A:1963:GLN:OE1	1:A:2124:SER:HA	2.06	0.55
1:A:3505:LEU:HD21	1:A:3510:GLN:HG2	1.88	0.55
1:A:3518:VAL:O	1:A:3522:THR:HG22	2.07	0.55
1:A:3831:ASP:HB3	1:A:3832:PRO:HD3	1.87	0.55
1:A:3864:ARG:HG3	1:A:4085:LYS:HE3	1.89	0.55
1:A:3875:GLU:O	1:A:3965:ARG:NH1	2.35	0.55
3:C:508:ILE:HG23	3:C:512:ILE:HD12	1.89	0.55
4:D:86:ALA:HB3	4:D:97:THR:HB	1.89	0.55
5:Q:94:TYR:HE1	5:Q:113:LEU:HD13	1.72	0.55
1:S:1437:TYR:HB3	1:S:1502:SER:HB2	1.89	0.55
1:S:2464:HIS:N	1:S:2470:ARG:HD3	2.22	0.55
1:S:2919:ASP:HA	1:S:2922:ARG:HH11	1.72	0.55
2:T:439:PHE:H	2:T:442:ASP:HB2	1.72	0.55
1:A:702:SER:O	1:A:706:LEU:HG	2.06	0.55
1:A:2439:ILE:HD12	1:A:2454:LEU:HD21	1.87	0.55
1:A:3547:THR:HA	1:A:3550:LYS:HZ3	1.71	0.55
1:A:3577:GLN:OE1	1:A:3629:ARG:NH1	2.39	0.55
1:A:3705:TYR:OH	1:A:3713:PRO:O	2.24	0.55
1:A:4055:ASN:HD21	1:A:4057:ALA:HB3	1.71	0.55
2:B:357:LYS:HE2	2:B:359:HIS:HE1	1.72	0.55
3:C:643:ARG:HD3	3:C:655:PHE:CD1	2.42	0.55
3:L:280:ASP:HA	3:L:289:ILE:HD11	1.88	0.55
5:P:194:LEU:HG	5:P:197:LYS:HZ2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:169:THR:HA	1:S:172:GLU:HG2	1.87	0.55
1:S:1611:GLN:HE21	1:S:1614:GLN:HG3	1.71	0.55
1:S:3963:LEU:HB3	1:S:4124:TRP:HH2	1.72	0.55
2:T:82:LEU:HD12	2:T:108:LEU:O	2.06	0.55
1:A:380:ASP:HA	1:A:383:PHE:HB3	1.89	0.55
1:A:430:VAL:HG11	1:A:1643:MET:HG3	1.88	0.55
1:A:1231:GLN:O	1:A:1235:ILE:HG13	2.07	0.55
1:A:1340:ARG:O	1:A:1343:GLU:HG2	2.07	0.55
1:A:2185:MET:O	1:A:2189:ILE:HG12	2.07	0.55
1:A:3348:LEU:O	1:A:3352:GLU:N	2.38	0.55
2:B:121:GLN:O	2:B:130:ARG:NH1	2.40	0.55
2:B:351:LYS:O	2:B:395:ALA:N	2.29	0.55
2:B:444:ARG:N	3:C:266:SER:O	2.39	0.55
3:L:540:ILE:HD11	2:T:376:ILE:HD12	1.89	0.55
6:R:675:LYS:HD2	6:R:678:LEU:HD12	1.88	0.55
6:R:808:SER:OG	6:R:811:SER:OG	2.25	0.55
1:S:225:LYS:HG2	1:S:274:LEU:HB2	1.89	0.55
1:S:652:GLU:O	1:S:655:LEU:HB3	2.07	0.55
1:S:895:ALA:HB2	1:S:904:VAL:HG22	1.89	0.55
1:S:913:ARG:HG3	1:S:2807:GLN:HE22	1.72	0.55
1:S:1766:LEU:HD11	1:S:1775:GLU:HG2	1.88	0.55
1:S:1820:VAL:HA	1:S:1824:LEU:HD23	1.88	0.55
1:S:2986:PRO:O	1:S:2991:LYS:NZ	2.39	0.55
1:S:3506:LEU:HD21	1:S:3554:PHE:HB2	1.88	0.55
1:A:195:ASN:HA	1:A:198:ARG:HE	1.71	0.55
1:A:542:ASP:OD1	1:A:543:SER:N	2.40	0.55
1:A:1948:ALA:O	1:A:1952:ILE:HG12	2.06	0.55
1:A:2919:ASP:O	1:A:2923:TRP:N	2.35	0.55
1:A:3820:MET:O	1:A:3822:GLN:NE2	2.40	0.55
1:A:3980:MET:HE3	1:A:3980:MET:H	1.71	0.55
2:B:41:LEU:HB3	2:B:88:TYR:CE1	2.42	0.55
4:D:39:LEU:HD21	4:D:96:LEU:HD22	1.88	0.55
1:S:174:VAL:O	1:S:178:LEU:N	2.34	0.55
1:S:306:VAL:HA	1:S:309:LYS:HG3	1.88	0.55
1:S:939:MET:HE3	1:S:942:LEU:HD11	1.88	0.55
1:S:1146:ASN:HB3	1:S:1199:PRO:HB3	1.89	0.55
1:S:2321:GLU:HA	1:S:2366:LYS:HG2	1.89	0.55
1:S:3532:PRO:HA	1:S:3535:ILE:HG22	1.89	0.55
1:S:3951:GLN:HA	1:S:4068:HIS:HB2	1.89	0.55
1:A:899:ARG:NH1	1:A:2565:MET:O	2.36	0.54
1:A:1086:TYR:CE1	1:A:1133:HIS:HB3	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1357:LYS:O	1:A:1360:LYS:HB3	2.06	0.54
1:A:3249:GLN:HB2	1:A:3251:ASN:OD1	2.07	0.54
1:A:3760:GLN:O	1:A:3764:VAL:HG23	2.06	0.54
2:B:335:GLU:O	2:B:339:ARG:N	2.40	0.54
2:B:362:LEU:HD23	2:B:436:PHE:HB3	1.89	0.54
3:C:645:GLU:HA	3:C:648:LYS:HE2	1.89	0.54
4:D:7:PRO:HD3	4:D:77:ARG:HH21	1.72	0.54
6:R:739:GLN:HE21	6:R:741:ARG:HG2	1.71	0.54
1:S:672:ILE:O	1:S:676:ASN:ND2	2.39	0.54
1:S:1665:HIS:H	1:S:1668:PHE:HB3	1.71	0.54
1:S:1750:LEU:HD13	1:S:1758:LEU:HB2	1.88	0.54
1:S:3090:TYR:O	1:S:3095:ASP:N	2.40	0.54
1:S:3262:LEU:O	1:S:3266:SER:N	2.39	0.54
1:S:3515:GLN:HA	1:S:3518:VAL:HG12	1.88	0.54
1:A:1128:CYS:HA	1:A:1131:ILE:HG12	1.89	0.54
1:A:1748:ASP:OD1	1:A:1749:ALA:N	2.40	0.54
1:A:2257:PHE:HA	1:A:2260:PHE:CE2	2.41	0.54
1:A:2268:LYS:HB2	1:A:2314:GLU:OE2	2.07	0.54
1:A:2495:SER:HA	1:A:2498:ILE:HD12	1.88	0.54
1:A:3107:ILE:HD13	1:A:3135:LEU:HD13	1.89	0.54
1:A:3358:ARG:O	1:A:3362:LEU:HG	2.07	0.54
1:A:4093:GLU:N	1:A:4093:GLU:OE1	2.40	0.54
2:B:410:PHE:HB3	2:B:437:LEU:HD12	1.88	0.54
3:L:298:ASN:ND2	2:T:294:GLU:OE2	2.38	0.54
1:S:449:TYR:HB2	1:S:454:GLN:HE21	1.72	0.54
1:S:2281:MET:HE1	1:S:2326:ILE:HA	1.90	0.54
1:S:2410:GLU:O	1:S:2414:GLN:NE2	2.40	0.54
1:S:2825:THR:HG23	1:S:2828:GLU:H	1.72	0.54
1:S:3416:LEU:HG	1:S:3446:VAL:HG12	1.89	0.54
1:S:3448:GLU:HG2	1:S:3452:LYS:HE3	1.88	0.54
1:A:939:MET:SD	1:A:2783:ILE:HG23	2.47	0.54
1:A:1614:GLN:O	1:A:1618:LEU:HG	2.07	0.54
1:A:2424:MET:O	1:A:2432:GLN:NE2	2.37	0.54
1:A:3493:TRP:CZ3	1:A:3521:ILE:HA	2.43	0.54
1:A:3888:VAL:HA	1:A:3891:SER:HB3	1.89	0.54
1:A:4011:PHE:CD1	1:A:4014:LYS:HD3	2.42	0.54
2:B:35:ARG:NH1	2:B:80:ARG:O	2.41	0.54
2:B:329:LEU:HD13	3:C:276:TRP:HH2	1.72	0.54
2:B:469:LEU:HD22	2:B:514:MET:HG3	1.90	0.54
3:C:138:LEU:HD12	3:C:167:PHE:HZ	1.73	0.54
3:L:602:VAL:HG12	3:L:609:PHE:HD2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:23:TYR:CE2	4:M:40:TYR:HB2	2.43	0.54
1:S:3011:LEU:HB3	1:S:3047:SER:OG	2.08	0.54
1:S:3579:SER:HB2	1:S:3583:LEU:HD12	1.90	0.54
1:A:575:ILE:O	1:A:579:LEU:HG	2.06	0.54
1:A:639:ALA:HB3	1:A:680:ILE:HG21	1.88	0.54
1:A:1038:LYS:HA	1:A:1041:ILE:HD12	1.88	0.54
1:A:1775:GLU:O	1:A:1778:PHE:HB3	2.07	0.54
2:B:44:ALA:O	2:B:138:GLY:N	2.40	0.54
3:L:347:LYS:HB3	3:L:350:GLN:HG3	1.89	0.54
1:S:111:CYS:SG	1:S:130:LEU:HG	2.46	0.54
1:S:1783:ARG:CZ	1:S:1830:HIS:HB2	2.37	0.54
1:S:3574:ALA:HB2	1:S:3684:SER:HB3	1.89	0.54
2:T:362:LEU:HD13	2:T:438:PRO:HB3	1.88	0.54
1:A:865:GLN:OE1	1:A:3170:ASP:HA	2.08	0.54
1:A:3504:ALA:HA	1:A:3536:SER:HB2	1.88	0.54
1:A:3822:GLN:HA	1:A:3825:LYS:HB3	1.90	0.54
2:B:267:ILE:HD11	3:C:534:LYS:HB3	1.88	0.54
2:B:366:LEU:O	2:B:434:LEU:N	2.36	0.54
5:H:3:ARG:NH1	5:H:23:SER:HB2	2.22	0.54
3:L:354:ARG:HH12	2:T:428:THR:HG23	1.73	0.54
1:S:527:TYR:O	1:S:531:PHE:N	2.39	0.54
1:A:462:VAL:O	1:A:466:LEU:HG	2.08	0.54
1:A:947:GLN:OE1	1:A:948:MET:HG2	2.08	0.54
1:A:2826:LEU:HA	1:A:2829:LYS:HE2	1.90	0.54
1:A:3422:GLN:N	1:A:3425:ARG:HH21	2.05	0.54
1:A:4049:ARG:HH22	1:A:4062:ASP:HB2	1.73	0.54
2:B:339:ARG:HA	2:B:405:ASN:HA	1.89	0.54
2:B:398:CYS:SG	2:B:399:ARG:N	2.81	0.54
5:H:187:LYS:O	5:H:190:LYS:HG2	2.08	0.54
6:R:845:LEU:HD21	6:R:852:VAL:HG13	1.89	0.54
1:S:789:TYR:HD1	1:S:792:ILE:HD12	1.73	0.54
1:S:2203:THR:HB	1:S:2248:CYS:HB3	1.90	0.54
1:S:2319:ALA:O	1:S:2323:LEU:HG	2.08	0.54
1:S:3921:GLY:HA3	1:S:3959:MET:HG2	1.89	0.54
1:A:638:GLN:HG3	1:A:640:GLU:OE1	2.07	0.54
1:A:891:ARG:HH21	1:A:961:LEU:HD23	1.72	0.54
1:A:1257:LEU:HA	1:A:1260:LEU:HD12	1.89	0.54
1:A:1710:LEU:O	1:A:1714:LEU:HG	2.08	0.54
1:A:2125:TRP:O	1:A:2128:PHE:N	2.41	0.54
1:A:3077:ILE:HG23	1:A:3081:HIS:HD2	1.72	0.54
2:B:109:ASP:HB3	2:B:115:ARG:CZ	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:247:TRP:CZ2	3:C:338:LYS:HG3	2.43	0.54
5:G:188:LYS:HA	5:G:191:ILE:HD12	1.89	0.54
3:L:376:ALA:O	3:L:380:LEU:HG	2.08	0.54
1:S:1947:CYS:O	1:S:1950:SER:OG	2.20	0.54
2:T:87:PHE:CE2	2:T:105:LEU:HB2	2.43	0.54
2:T:204:HIS:N	2:T:237:SER:OG	2.30	0.54
2:T:348:MET:HB2	2:T:397:LEU:HG	1.90	0.54
1:A:2303:LEU:HB3	1:A:2323:LEU:HD21	1.88	0.54
1:A:2470:ARG:NH1	1:A:2513:GLU:OE2	2.40	0.54
1:A:2497:GLU:HA	1:A:2500:LYS:HE2	1.90	0.54
1:A:3287:ARG:O	1:A:3289:ARG:NH1	2.41	0.54
3:L:676:GLU:HG3	3:L:677:ILE:H	1.73	0.54
1:S:316:LEU:O	1:S:320:LEU:HG	2.08	0.54
1:S:460:ALA:O	1:S:464:VAL:HG13	2.08	0.54
1:S:584:GLU:O	1:S:613:HIS:N	2.40	0.54
1:S:1128:CYS:HA	1:S:1131:ILE:HG12	1.89	0.54
1:S:1583:MET:HG2	1:S:1625:HIS:HB3	1.90	0.54
1:S:3932:MET:N	1:S:3932:MET:SD	2.81	0.54
2:T:75:ILE:HG13	2:T:111:PRO:HG2	1.89	0.54
2:T:146:VAL:HA	2:T:149:VAL:HG22	1.89	0.54
1:A:461:ILE:O	1:A:464:VAL:HG22	2.07	0.54
1:A:1184:ARG:HD3	1:A:1266:CYS:SG	2.47	0.54
1:A:2524:PHE:HA	1:A:2530:ARG:HH21	1.72	0.54
1:A:2575:PRO:HD3	1:A:2786:LYS:HZ3	1.73	0.54
1:A:2776:ARG:NE	1:A:2782:ASP:OD2	2.39	0.54
1:A:3011:LEU:HA	1:A:3014:CYS:HB3	1.89	0.54
1:A:3049:LEU:HA	1:A:3052:LEU:HB2	1.89	0.54
1:A:3148:GLN:OE1	1:A:3148:GLN:N	2.41	0.54
1:A:3260:LYS:O	1:A:3264:LYS:HG2	2.08	0.54
2:B:68:GLN:HE22	2:B:119:LEU:HB2	1.72	0.54
5:H:171:ALA:O	5:H:174:THR:OG1	2.20	0.54
3:L:655:PHE:HA	3:L:658:PHE:HB2	1.89	0.54
6:R:750:THR:HA	6:R:753:HIS:HB3	1.89	0.54
1:S:542:ASP:OD1	1:S:543:SER:N	2.39	0.54
1:A:2860:ASP:O	1:A:2864:GLN:HG3	2.08	0.54
1:A:2987:THR:HG23	1:A:2990:GLU:H	1.72	0.54
1:A:3169:PRO:HB3	1:A:3182:ILE:HG21	1.90	0.54
1:A:3236:PHE:HA	1:A:3239:LYS:HD2	1.89	0.54
1:A:3748:HIS:HB3	1:A:3750:PHE:CE1	2.43	0.54
2:B:353:LEU:HD23	2:B:395:ALA:HB2	1.90	0.54
3:C:18:PHE:N	3:C:104:GLN:OE1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:9:ALA:N	3:L:129:LYS:O	2.31	0.54
3:L:342:VAL:HA	3:L:393:VAL:HA	1.89	0.54
1:S:941:MET:HB2	1:S:958:MET:HE3	1.90	0.54
1:S:1632:TRP:HB2	1:S:1633:TRP:HD1	1.72	0.54
1:S:1795:VAL:HG13	1:S:1839:PHE:HD1	1.73	0.54
1:S:3162:ASN:OD1	1:S:3163:THR:N	2.40	0.54
1:S:3190:LEU:HB2	1:S:3235:LYS:HE3	1.89	0.54
1:S:4045:CYS:HA	1:S:4048:LYS:HG2	1.88	0.54
1:S:4113:ASP:O	1:S:4117:LEU:HG	2.08	0.54
1:A:100:ILE:HG22	1:A:103:TYR:HB2	1.90	0.53
1:A:359:LEU:O	1:A:363:ILE:HG13	2.07	0.53
1:A:1456:LYS:HE3	1:A:1516:GLU:HG3	1.89	0.53
1:A:2295:GLN:HG3	1:A:2298:GLU:HG3	1.90	0.53
1:A:2319:ALA:O	1:A:2323:LEU:HG	2.07	0.53
1:A:3183:ILE:HG13	1:A:3242:MET:CE	2.38	0.53
2:B:113:ALA:O	2:B:117:LEU:HG	2.08	0.53
1:S:1574:ASN:HD21	1:S:1577:LEU:HB2	1.73	0.53
1:S:2268:LYS:HB3	1:S:2315:VAL:HG22	1.89	0.53
1:S:2586:PHE:HD2	1:S:2776:ARG:HH21	1.56	0.53
1:S:3010:SER:HA	1:S:3013:TYR:CD2	2.43	0.53
2:T:64:ILE:HG22	2:T:123:LYS:HE3	1.89	0.53
1:A:1250:LEU:HB2	1:A:1329:ARG:HH22	1.72	0.53
1:A:2884:LEU:O	1:A:2886:GLN:NE2	2.40	0.53
1:A:2981:TRP:HD1	1:A:2985:GLU:HG2	1.72	0.53
1:A:3269:ARG:HE	1:A:3272:TRP:HB2	1.73	0.53
1:A:3380:ARG:O	1:A:3384:HIS:ND1	2.41	0.53
1:A:3881:ASP:OD1	1:A:3884:LYS:HB2	2.08	0.53
3:C:487:PHE:HA	3:C:490:LEU:HD12	1.89	0.53
5:H:36:LEU:HG	5:H:43:TRP:HE3	1.73	0.53
4:M:90:GLN:HG3	4:M:91:GLU:H	1.74	0.53
1:S:2751:GLN:O	1:S:2755:LYS:HG2	2.09	0.53
1:S:2803:ILE:HA	1:S:2806:LYS:HG2	1.89	0.53
1:S:3780:ALA:HB1	1:S:3784:ARG:HH22	1.72	0.53
1:A:476:ARG:HH12	1:A:1562:LEU:HD23	1.73	0.53
1:A:560:LEU:O	1:A:564:LEU:HG	2.09	0.53
1:A:2587:GLN:N	1:A:2777:HIS:O	2.42	0.53
1:A:2866:ALA:O	1:A:2899:ARG:NH2	2.40	0.53
3:C:598:PHE:HB2	3:C:612:ALA:HB1	1.90	0.53
3:L:96:SER:OG	3:L:97:LYS:NZ	2.35	0.53
3:L:291:LYS:HB3	2:T:302:THR:HG22	1.91	0.53
3:L:327:ASP:O	3:L:330:GLN:NE2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:342:VAL:HG23	3:L:393:VAL:HG22	1.91	0.53
5:P:179:ARG:HA	5:P:182:LEU:CD2	2.38	0.53
1:S:348:ILE:HG22	1:S:359:LEU:HD23	1.90	0.53
1:S:1675:TYR:CE1	1:S:1679:LEU:HD21	2.42	0.53
1:S:2365:ASN:ND2	1:S:2396:LEU:HG	2.22	0.53
1:S:2512:ASP:N	1:S:2518:GLN:HE21	2.05	0.53
1:S:2880:CYS:HA	1:S:2885:GLN:HB2	1.90	0.53
1:S:3915:HIS:CE1	1:S:3921:GLY:HA2	2.43	0.53
2:T:174:ASN:O	2:T:177:GLY:N	2.42	0.53
1:A:1200:GLY:O	1:A:1202:ARG:NH1	2.42	0.53
1:A:1256:TRP:CE2	1:A:1260:LEU:HD11	2.44	0.53
1:A:2810:SER:HB2	1:A:2864:GLN:HE22	1.73	0.53
1:A:3045:ILE:HA	1:A:3048:LYS:HB2	1.90	0.53
1:A:3682:GLU:HA	1:A:3688:SER:HB3	1.89	0.53
2:B:102:ILE:HG13	2:B:145:GLU:HB3	1.90	0.53
2:B:353:LEU:HD22	2:B:414:VAL:HG23	1.91	0.53
2:B:421:ASP:OD1	2:B:425:ILE:N	2.34	0.53
2:B:472:THR:N	4:D:202:ASP:OD2	2.40	0.53
3:C:305:VAL:HG13	3:C:309:ASP:HB2	1.89	0.53
3:L:297:LEU:N	3:L:303:THR:O	2.34	0.53
3:L:695:SER:O	3:L:699:GLU:HG2	2.09	0.53
6:R:728:GLU:OE1	6:R:741:ARG:NH2	2.37	0.53
1:S:1867:ILE:HG22	1:S:1871:MET:SD	2.49	0.53
1:S:2429:ASP:O	1:S:2433:LYS:HG3	2.09	0.53
1:S:3574:ALA:CB	1:S:3684:SER:HB3	2.38	0.53
1:S:4049:ARG:HG2	1:S:4054:ALA:HB2	1.91	0.53
2:T:142:SER:OG	2:T:185:ARG:NH1	2.40	0.53
1:A:209:THR:O	1:A:212:VAL:HG22	2.08	0.53
1:A:1274:ARG:HH11	1:A:1351:THR:HB	1.74	0.53
1:A:2430:GLU:OE1	1:A:2430:GLU:N	2.41	0.53
1:A:2776:ARG:HH21	1:A:2782:ASP:HB2	1.73	0.53
1:A:3274:VAL:HG11	1:A:3311:ASN:HB2	1.89	0.53
1:A:3567:VAL:HG21	1:A:3696:ARG:HD3	1.89	0.53
3:C:496:HIS:CG	3:C:506:PRO:HD3	2.43	0.53
6:I:709:VAL:HA	6:I:712:ILE:HG12	1.91	0.53
6:I:812:MET:O	6:I:850:ALA:HB3	2.08	0.53
5:P:184:LEU:O	5:P:188:LYS:HG2	2.08	0.53
5:P:190:LYS:HZ1	5:Q:191:ILE:HG23	1.74	0.53
1:S:333:MET:HE1	1:S:372:PRO:HB2	1.90	0.53
1:S:935:HIS:CD2	1:S:987:LEU:HD21	2.44	0.53
1:S:2477:LEU:HD13	1:S:2505:VAL:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2574:ASN:O	1:S:2787:HIS:ND1	2.38	0.53
1:A:192:ASN:O	1:A:196:LEU:HG	2.09	0.53
1:A:892:LEU:HA	1:A:944:LYS:HE2	1.89	0.53
1:A:1091:GLU:OE1	1:A:1091:GLU:N	2.42	0.53
1:A:1224:PHE:HE1	1:A:1266:CYS:HB2	1.74	0.53
1:A:2141:ASN:O	1:A:2144:LEU:HG	2.09	0.53
1:A:3953:LEU:HB3	1:A:3955:VAL:HG12	1.89	0.53
2:B:325:ARG:HE	2:B:327:ILE:HG12	1.73	0.53
2:B:493:LEU:HG	6:I:708:ARG:HD2	1.90	0.53
3:L:11:VAL:HG12	3:L:131:HIS:O	2.08	0.53
1:S:2269:ASP:OD1	1:S:2270:ASN:N	2.41	0.53
1:S:2586:PHE:HB2	1:S:2776:ARG:HE	1.72	0.53
1:S:3622:ALA:HB3	1:S:3630:ARG:HE	1.72	0.53
2:T:83:LEU:O	2:T:109:ASP:N	2.38	0.53
1:A:108:LYS:NZ	1:A:145:ASP:O	2.42	0.53
1:A:447:PRO:HB2	1:A:519:TRP:HZ2	1.73	0.53
1:A:460:ALA:O	1:A:464:VAL:HG13	2.09	0.53
1:A:677:ALA:O	1:A:681:LYS:N	2.42	0.53
1:A:1327:GLY:HA2	1:A:1330:TYR:HB3	1.91	0.53
1:A:1418:HIS:O	1:A:1422:LYS:NZ	2.42	0.53
1:A:2869:LEU:HB2	1:A:2899:ARG:HH21	1.74	0.53
2:B:91:GLU:HG3	2:B:139:SER:HB3	1.91	0.53
2:B:142:SER:HA	2:B:176:HIS:CD2	2.44	0.53
2:B:351:LYS:HZ3	3:C:463:LEU:HB2	1.74	0.53
3:C:8:ALA:HA	3:C:129:LYS:H	1.73	0.53
3:C:9:ALA:O	3:C:131:HIS:HB3	2.07	0.53
3:C:251:LEU:HD13	3:C:340:PHE:CD2	2.44	0.53
3:C:297:LEU:HB3	3:C:299:ASP:OD1	2.08	0.53
3:C:732:ILE:HA	1:S:1910:GLU:HA	1.91	0.53
5:G:188:LYS:HZ2	6:I:769:THR:HG23	1.71	0.53
6:I:715:SER:OG	6:I:718:HIS:NE2	2.42	0.53
3:L:250:ARG:HG2	3:L:260:ARG:HA	1.91	0.53
3:L:605:LYS:HB2	3:L:609:PHE:CZ	2.40	0.53
6:R:812:MET:SD	6:R:813:PHE:N	2.82	0.53
1:S:114:VAL:O	1:S:119:ARG:HB2	2.08	0.53
1:S:852:ARG:NH2	1:S:3111:MET:SD	2.82	0.53
1:S:1784:ARG:HG3	1:S:1787:ARG:NH1	2.22	0.53
1:S:2572:TYR:HA	1:S:2787:HIS:HB2	1.90	0.53
1:A:247:GLU:HB3	1:A:251:PHE:CZ	2.44	0.53
1:A:345:PHE:O	1:A:366:TYR:OH	2.23	0.53
1:A:724:GLU:HB2	1:A:2600:THR:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2138:VAL:O	1:A:2143:ARG:NE	2.41	0.53
1:A:2380:ASN:ND2	2:B:192:ASP:OD1	2.42	0.53
1:A:4102:THR:HA	1:A:4105:LYS:HE3	1.90	0.53
3:C:108:LEU:HD11	3:C:144:LYS:HA	1.89	0.53
3:C:496:HIS:NE2	3:C:504:PRO:O	2.42	0.53
1:S:273:ARG:O	1:S:277:LEU:HG	2.09	0.53
1:S:978:GLN:NE2	1:S:2594:ASP:OD1	2.42	0.53
1:S:1632:TRP:CD1	1:S:1641:THR:HG23	2.44	0.53
1:S:1775:GLU:O	1:S:1778:PHE:HB3	2.08	0.53
1:S:2470:ARG:NH2	1:S:2513:GLU:OE2	2.30	0.53
1:S:3100:LYS:HA	1:S:3103:ILE:HG22	1.90	0.53
2:T:261:LEU:HG	2:T:345:LEU:HB2	1.91	0.53
1:A:131:LEU:HD13	1:A:177:LEU:HD11	1.89	0.53
1:A:338:LEU:HD12	1:A:339:GLN:HG3	1.91	0.53
1:A:733:LEU:HA	1:A:736:LEU:HD13	1.90	0.53
1:A:739:ASN:HA	1:A:742:GLU:CD	2.28	0.53
1:A:955:ALA:C	1:A:957:PRO:HD3	2.29	0.53
1:A:1169:VAL:O	1:A:1172:LEU:HG	2.08	0.53
1:A:1229:CYS:HB3	1:A:1233:SER:HB3	1.91	0.53
1:A:1231:GLN:HB3	1:A:1235:ILE:HD11	1.90	0.53
1:A:2393:LEU:HA	1:A:2396:LEU:HB2	1.91	0.53
1:A:3137:GLU:O	1:A:3140:GLU:HG2	2.09	0.53
2:B:105:LEU:HG	2:B:106:GLN:HG3	1.90	0.53
2:B:176:HIS:HA	2:B:182:LYS:HE2	1.91	0.53
3:C:267:ILE:HB	3:C:361:VAL:HB	1.90	0.53
3:L:380:LEU:HA	2:T:462:MET:CE	2.39	0.53
3:L:531:SER:HA	3:L:534:LYS:HE3	1.91	0.53
3:L:667:GLU:O	3:L:670:GLN:NE2	2.40	0.53
5:Q:25:GLU:HG2	5:Q:26:LYS:HD2	1.90	0.53
6:R:872:VAL:HG11	6:R:888:ILE:HD13	1.91	0.53
1:S:287:LEU:HB3	1:S:326:MET:SD	2.49	0.53
1:S:1360:LYS:NZ	1:S:1409:SER:OG	2.41	0.53
1:S:2162:LYS:HA	1:S:2200:ALA:HB2	1.90	0.53
1:S:3369:ASP:HB3	1:S:3372:LYS:HG2	1.91	0.53
1:A:391:ARG:NH2	1:A:395:MET:HB3	2.24	0.53
1:A:628:GLU:O	1:A:632:GLU:OE1	2.27	0.53
1:A:1184:ARG:NH2	1:A:1262:ALA:HA	2.24	0.53
1:A:1935:GLU:OE1	1:A:1935:GLU:N	2.42	0.53
1:A:3572:ILE:HD13	1:A:3575:LEU:HD12	1.90	0.53
1:A:3596:LEU:HD22	1:A:3646:LYS:HE2	1.91	0.53
5:H:33:VAL:HG22	5:H:46:THR:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:380:LEU:HA	2:T:462:MET:HE1	1.90	0.53
1:S:2094:MET:HB2	1:S:2149:LEU:HD12	1.91	0.53
1:S:2125:TRP:HB3	1:S:2128:PHE:HD2	1.74	0.53
1:S:2155:GLU:HA	1:S:2158:ARG:HD3	1.90	0.53
1:A:89:LEU:O	1:A:133:LYS:NZ	2.41	0.52
1:A:1511:ALA:O	1:A:1515:LEU:HG	2.09	0.52
1:A:1763:THR:O	1:A:1767:CYS:N	2.41	0.52
1:A:2121:ASP:HB3	1:A:2127:LYS:HG2	1.90	0.52
1:A:2139:PRO:O	1:A:2143:ARG:N	2.37	0.52
1:A:2556:SER:O	1:A:2560:ASN:ND2	2.42	0.52
1:A:3301:LEU:HD11	1:A:3333:THR:HG21	1.91	0.52
2:B:94:LYS:HB2	2:B:103:TYR:CE2	2.44	0.52
4:D:46:GLU:HB3	4:D:111:LYS:HE3	1.90	0.52
3:L:498:ALA:O	2:T:325:ARG:NH2	2.41	0.52
5:P:177:TYR:O	5:P:181:ILE:HG12	2.09	0.52
1:S:323:VAL:HA	1:S:326:MET:HG2	1.91	0.52
1:S:852:ARG:NH2	1:S:3108:GLN:OE1	2.40	0.52
1:S:1205:ASN:HB3	1:S:1275:THR:HA	1.91	0.52
1:S:1387:GLY:HA2	1:S:1392:MET:HG2	1.90	0.52
1:S:2953:THR:HG23	1:S:2993:PHE:HE2	1.73	0.52
1:S:3753:LYS:O	1:S:3800:LEU:HD12	2.09	0.52
1:A:1155:ARG:HH21	1:A:3691:LYS:HB3	1.72	0.52
1:A:1824:LEU:HD12	1:A:1828:LEU:HD11	1.90	0.52
1:A:2850:PHE:HB3	1:A:2883:SER:HB2	1.91	0.52
1:A:2928:LYS:O	1:A:2931:ARG:HD3	2.08	0.52
1:A:3636:PHE:HA	1:A:3639:GLU:HG2	1.90	0.52
3:C:396:ALA:HB2	3:C:403:PRO:HB3	1.91	0.52
5:H:184:LEU:HD21	6:I:803:TYR:CE2	2.43	0.52
3:L:57:VAL:HG21	3:L:114:SER:HB2	1.89	0.52
3:L:313:GLY:N	2:T:286:ILE:O	2.40	0.52
3:L:499:LEU:O	3:L:502:ARG:NH1	2.42	0.52
1:S:13:LEU:HB2	1:S:59:PHE:CZ	2.43	0.52
1:S:486:GLY:O	1:S:490:ILE:HG12	2.09	0.52
1:S:1095:LEU:O	1:S:1099:PHE:N	2.31	0.52
1:S:2234:ASN:HA	1:S:2237:ILE:HD12	1.91	0.52
1:S:3632:PHE:HE2	1:S:3671:ASN:HB3	1.73	0.52
1:A:152:LEU:HB3	1:A:156:PHE:CZ	2.45	0.52
1:A:965:THR:O	1:A:968:VAL:HG12	2.09	0.52
1:A:1297:PHE:HA	1:A:1301:ILE:HG12	1.92	0.52
2:B:297:LYS:HG2	3:C:298:ASN:HA	1.90	0.52
2:B:507:THR:HG1	3:C:394:ARG:NH1	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:144:LYS:HG2	3:C:207:ILE:HG13	1.90	0.52
3:L:254:GLY:HA3	2:T:514:MET:HG2	1.91	0.52
1:S:451:PRO:O	1:S:455:LEU:HG	2.09	0.52
1:S:2521:ILE:HG13	1:S:2525:TRP:HD1	1.74	0.52
1:S:2569:SER:HB3	1:S:2572:TYR:HB2	1.89	0.52
1:S:3037:GLN:HB3	1:S:3044:MET:HE1	1.91	0.52
1:A:538:ASP:HA	1:A:541:MET:HG3	1.91	0.52
1:A:3768:PHE:O	1:A:3772:ASN:ND2	2.42	0.52
2:B:357:LYS:HB2	2:B:360:HIS:CE1	2.44	0.52
3:C:265:LYS:HD3	3:C:268:LEU:HD21	1.90	0.52
6:I:814:ARG:N	6:I:850:ALA:H	1.99	0.52
3:L:640:ARG:O	3:L:644:GLU:HG2	2.09	0.52
1:S:1072:ALA:HB1	1:S:1121:LEU:HD11	1.91	0.52
1:S:2166:SER:OG	1:S:2167:PRO:HD3	2.09	0.52
1:S:3692:VAL:HG22	1:S:3696:ARG:HD3	1.91	0.52
1:S:3970:LEU:HG	1:S:3971:MET:HG3	1.92	0.52
1:A:345:PHE:HB3	1:A:366:TYR:CE1	2.44	0.52
1:A:1921:ASP:OD1	1:A:1921:ASP:N	2.41	0.52
2:B:476:ASP:OD1	2:B:476:ASP:N	2.40	0.52
6:R:728:GLU:HA	6:R:731:LYS:HE2	1.90	0.52
1:S:469:ALA:HA	1:S:475:LEU:HD13	1.92	0.52
1:S:524:TYR:HA	1:S:527:TYR:HE2	1.74	0.52
1:S:938:VAL:HA	1:S:941:MET:HG3	1.91	0.52
1:S:1475:LEU:HG	1:S:1524:LEU:HD22	1.90	0.52
1:S:1674:THR:O	1:S:1678:LEU:HG	2.09	0.52
1:S:2804:ILE:HD13	1:S:2807:GLN:NE2	2.24	0.52
1:S:2956:ALA:HB2	1:S:2971:GLN:HB2	1.90	0.52
1:S:3867:THR:HA	1:S:4118:GLY:HA2	1.91	0.52
1:A:183:GLU:HG2	1:A:184:VAL:H	1.74	0.52
1:A:323:VAL:HA	1:A:326:MET:HG2	1.91	0.52
1:A:1034:ARG:HB2	1:A:1085:ILE:HG22	1.91	0.52
1:A:1513:GLY:HA2	1:A:1516:GLU:OE2	2.09	0.52
1:A:1802:TYR:O	1:A:1806:ARG:NH1	2.42	0.52
1:A:2338:GLU:HB3	1:A:2341:LEU:HD12	1.92	0.52
1:A:2524:PHE:O	1:A:2530:ARG:NE	2.41	0.52
1:A:2884:LEU:HD12	1:A:2886:GLN:HE22	1.75	0.52
1:A:3457:ASN:HB3	1:A:3491:PRO:HG2	1.92	0.52
1:A:3714:GLU:O	1:A:3718:ARG:NH2	2.39	0.52
1:S:2183:HIS:HA	1:S:2186:VAL:HB	1.92	0.52
1:S:2464:HIS:H	1:S:2470:ARG:HD3	1.74	0.52
1:S:2553:HIS:O	1:S:2557:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:4011:PHE:HA	1:S:4014:LYS:HE2	1.92	0.52
2:T:74:LYS:NZ	2:T:81:ASP:O	2.34	0.52
1:A:484:HIS:ND1	1:A:574:LYS:HE3	2.25	0.52
1:A:1593:VAL:O	1:A:1597:LEU:HG	2.10	0.52
1:A:1750:LEU:HD21	1:A:1759:LEU:HD23	1.91	0.52
1:A:2528:GLU:HA	1:A:2531:LEU:O	2.10	0.52
1:A:3103:ILE:O	1:A:3107:ILE:HG12	2.10	0.52
1:A:3385:LEU:HD13	1:A:3416:LEU:HA	1.91	0.52
1:A:3665:MET:O	1:A:3669:LYS:N	2.33	0.52
2:B:458:GLN:HB3	2:B:525:PHE:HE1	1.75	0.52
5:P:179:ARG:HA	5:P:182:LEU:HD23	1.91	0.52
1:S:525:LYS:O	1:S:528:VAL:HG22	2.09	0.52
1:S:1484:LEU:HD13	1:S:1531:LEU:HD22	1.90	0.52
1:S:2121:ASP:HA	1:S:2127:LYS:HE2	1.92	0.52
1:A:2521:ILE:HG13	1:A:2525:TRP:CD1	2.45	0.52
1:A:2527:HIS:CD2	1:A:2529:THR:H	2.28	0.52
1:A:3011:LEU:O	1:A:3015:SER:N	2.42	0.52
1:A:3263:HIS:HB2	1:A:3276:TRP:CE2	2.45	0.52
2:B:38:LEU:HD11	2:B:167:MET:HB2	1.92	0.52
2:B:247:ARG:HG2	2:B:488:ARG:HH12	1.75	0.52
5:H:115:LYS:NZ	5:H:116:VAL:O	2.39	0.52
6:I:665:CYS:HB2	6:I:700:VAL:HG12	1.91	0.52
3:L:151:ILE:HD11	3:L:211:VAL:HG22	1.92	0.52
6:R:692:ASN:OD1	2:T:293:ASN:ND2	2.38	0.52
1:S:547:ASP:OD1	1:S:547:ASP:N	2.43	0.52
1:S:1196:PRO:HA	1:S:1202:ARG:HA	1.90	0.52
1:S:2254:ARG:NH2	1:S:2292:CYS:HB3	2.24	0.52
1:S:2396:LEU:O	1:S:2399:GLU:HG3	2.10	0.52
1:S:3924:HIS:HA	1:S:3962:ARG:HH21	1.75	0.52
2:T:86:VAL:HB	2:T:104:VAL:HG23	1.92	0.52
2:T:207:LYS:HD3	2:T:208:PRO:HD2	1.91	0.52
1:A:183:GLU:O	1:A:185:HIS:ND1	2.43	0.52
1:A:249:PHE:O	1:A:252:VAL:HG12	2.09	0.52
1:A:668:LYS:NZ	1:A:728:SER:HB3	2.24	0.52
1:A:2267:SER:HA	1:A:2311:ARG:HH21	1.75	0.52
1:A:2347:LYS:O	1:A:2351:GLN:N	2.24	0.52
1:A:3586:LYS:NZ	1:A:3668:LEU:HD22	2.25	0.52
1:A:4105:LYS:HA	1:A:4108:MET:HE3	1.92	0.52
2:B:351:LYS:NZ	3:C:475:ASP:OD1	2.29	0.52
3:L:83:LEU:HB2	3:L:121:GLU:HB3	1.92	0.52
4:M:127:GLY:HA2	4:M:130:LYS:HE2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:178:LEU:HB2	1:S:227:LEU:HD12	1.91	0.52
1:S:236:LYS:O	1:S:243:GLN:NE2	2.42	0.52
1:S:682:TYR:O	1:S:700:LYS:NZ	2.39	0.52
1:S:879:MET:HG3	1:S:881:LYS:H	1.75	0.52
1:S:1651:LYS:HD3	1:S:1654:GLN:NE2	2.24	0.52
1:S:2366:LYS:HA	1:S:2369:LYS:HZ1	1.74	0.52
1:A:586:GLN:HB2	1:A:613:HIS:CD2	2.45	0.52
1:A:1082:PHE:HA	1:A:1085:ILE:HG12	1.92	0.52
1:A:2386:LEU:HD13	1:A:2397:CYS:HB2	1.91	0.52
1:A:3064:PHE:HA	1:A:3067:LYS:HD2	1.92	0.52
3:C:500:HIS:HA	3:C:502:ARG:NH1	2.25	0.52
3:L:516:LEU:HG	2:T:399:ARG:HH11	1.75	0.52
3:L:678:VAL:O	3:L:682:GLY:N	2.37	0.52
1:S:2350:LYS:HG3	1:S:2354:ASN:ND2	2.25	0.52
1:S:3107:ILE:HG12	1:S:3135:LEU:HD11	1.91	0.52
1:S:3311:ASN:HB3	1:S:3315:TYR:CZ	2.45	0.52
1:S:3878:VAL:HG11	1:S:4127:TRP:HB2	1.91	0.52
1:A:932:GLU:OE1	1:A:2775:TYR:OH	2.27	0.51
1:A:1305:ASP:OD1	1:A:1334:LYS:NZ	2.42	0.51
1:A:2158:ARG:NH2	1:A:2196:TRP:HB3	2.25	0.51
2:B:374:LEU:HB3	3:C:541:GLU:HG3	1.92	0.51
3:C:495:LEU:O	3:C:499:LEU:HG	2.09	0.51
4:D:40:TYR:HB3	4:D:47:LEU:HD11	1.92	0.51
1:S:1055:ASN:O	1:S:1058:SER:OG	2.27	0.51
1:S:2327:LEU:HD23	1:S:2371:PHE:CD2	2.45	0.51
2:T:95:ASN:HD21	2:T:99:PHE:HB2	1.76	0.51
1:A:273:ARG:O	1:A:277:LEU:HG	2.10	0.51
1:A:1365:ASN:ND2	1:A:1370:ARG:HH22	2.05	0.51
1:A:1368:LEU:HB3	1:A:1372:LEU:HD23	1.91	0.51
1:A:1912:THR:HA	1:A:1915:LEU:HD23	1.93	0.51
1:A:2379:MET:N	1:A:2379:MET:SD	2.83	0.51
1:A:3247:ARG:HG3	1:A:3286:CYS:HB2	1.93	0.51
1:A:3833:ARG:HA	1:A:3877:LYS:HD3	1.91	0.51
1:A:3985:VAL:HG13	1:A:4100:GLU:HG3	1.92	0.51
3:C:212:MET:HE1	3:C:215:LEU:HD23	1.90	0.51
3:L:276:TRP:CE3	2:T:320:GLN:HG3	2.46	0.51
3:L:318:SER:HB3	2:T:110:ASN:HB3	1.92	0.51
3:L:653:GLN:HA	3:L:656:ASN:HB2	1.91	0.51
3:L:676:GLU:HG3	3:L:677:ILE:N	2.25	0.51
1:S:978:GLN:O	1:S:982:GLN:CB	2.57	0.51
1:S:1139:GLU:HG3	1:S:1197:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1687:HIS:O	1:S:1745:LYS:NZ	2.43	0.51
1:S:1875:LYS:NZ	1:S:1943:ALA:HB2	2.26	0.51
1:S:2254:ARG:HH21	1:S:2291:GLN:NE2	2.08	0.51
1:S:2361:ILE:HD11	1:S:2393:LEU:HD22	1.92	0.51
1:S:3392:ALA:HB1	1:S:3409:VAL:HA	1.93	0.51
2:T:73:SER:HB3	2:T:246:VAL:HG22	1.92	0.51
1:A:928:VAL:HB	1:A:2769:VAL:HG11	1.92	0.51
1:A:1595:ALA:HA	1:A:1598:ASN:HD21	1.76	0.51
1:A:2263:LYS:NZ	1:A:2269:ASP:OD2	2.43	0.51
1:A:2854:PHE:CE2	1:A:2858:ILE:HD11	2.44	0.51
1:A:3625:LEU:O	1:A:3682:GLU:HG3	2.09	0.51
2:B:87:PHE:CE2	2:B:105:LEU:HB2	2.45	0.51
2:B:363:ARG:HB3	3:C:359:ASN:HD22	1.74	0.51
4:D:183:GLU:OE2	4:D:189:GLY:N	2.43	0.51
6:I:669:GLY:N	6:I:675:LYS:HD3	2.25	0.51
3:L:260:ARG:NE	2:T:536:PRO:O	2.38	0.51
6:R:813:PHE:HA	6:R:850:ALA:HB3	1.93	0.51
1:S:528:VAL:HA	1:S:531:PHE:CD2	2.46	0.51
1:S:647:TYR:HD1	1:S:703:CYS:HG	1.57	0.51
1:S:1675:TYR:O	1:S:1679:LEU:HG	2.11	0.51
1:S:3476:PRO:O	1:S:3480:LEU:HB2	2.09	0.51
1:S:3603:LYS:H	1:S:3606:ILE:HB	1.74	0.51
2:T:270:SER:HB3	2:T:374:LEU:HB2	1.92	0.51
1:A:1662:ASN:OD1	1:A:1663:THR:N	2.44	0.51
1:A:1663:THR:O	1:A:1665:HIS:ND1	2.42	0.51
1:A:2398:LEU:HA	1:A:2401:VAL:HG12	1.92	0.51
4:D:184:SER:N	4:D:190:PHE:O	2.32	0.51
3:L:408:ALA:HB1	3:L:419:LEU:HD21	1.91	0.51
1:S:1356:TRP:HD1	1:S:1359:LEU:HD11	1.75	0.51
1:S:2748:VAL:HG12	1:S:2752:LYS:HE2	1.91	0.51
1:A:16:GLN:NE2	1:A:62:ASP:OD2	2.43	0.51
1:A:1603:GLN:HA	1:A:1606:ARG:HH11	1.75	0.51
1:A:1958:GLU:HG2	1:A:1959:LEU:HG	1.92	0.51
1:A:2210:VAL:HG13	1:A:2214:ARG:HH12	1.76	0.51
1:A:3167:ARG:N	1:A:3167:ARG:HD2	2.25	0.51
1:A:3920:ILE:HG23	1:A:3944:HIS:HB2	1.93	0.51
3:C:150:ILE:O	3:C:154:LEU:HB2	2.11	0.51
3:C:602:VAL:HG12	3:C:609:PHE:HB2	1.93	0.51
5:G:43:TRP:HB3	5:G:113:LEU:HD21	1.92	0.51
1:S:1064:TYR:O	1:S:1068:LEU:HG	2.10	0.51
1:S:3550:LYS:O	1:S:3553:GLU:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:4055:ASN:HD22	1:S:4058:VAL:HG23	1.75	0.51
2:T:289:TYR:CE2	2:T:291:GLU:HB2	2.45	0.51
1:A:240:GLU:HB2	1:A:242:PRO:HD2	1.93	0.51
1:A:446:PHE:HA	1:A:449:TYR:CE2	2.45	0.51
1:A:1685:ASP:H	1:A:1688:LEU:HD12	1.76	0.51
1:A:1731:PRO:HA	1:A:1736:PHE:CG	2.46	0.51
1:A:2324:GLY:HA3	1:A:2370:SER:OG	2.11	0.51
1:A:3235:LYS:HB3	1:A:3239:LYS:HZ1	1.76	0.51
1:A:3742:GLY:HA2	1:A:3748:HIS:HE2	1.76	0.51
1:A:3940:ILE:HG22	1:A:3941:ASP:N	2.25	0.51
2:B:325:ARG:CZ	3:C:498:ALA:HA	2.41	0.51
3:L:294:VAL:HB	2:T:299:LYS:HE3	1.92	0.51
5:Q:166:VAL:HG11	6:R:846:ARG:HD3	1.93	0.51
5:Q:188:LYS:HD3	5:Q:191:ILE:HD12	1.92	0.51
1:S:986:PRO:HB3	1:S:2777:HIS:CE1	2.46	0.51
1:S:1425:ALA:HB2	1:S:1467:ILE:HG13	1.93	0.51
1:S:1816:ARG:HA	1:S:1819:PHE:CE2	2.46	0.51
1:S:2514:ASN:HD22	1:S:2517:LEU:HG	1.76	0.51
1:S:2995:GLU:O	1:S:2999:LEU:HG	2.11	0.51
1:S:3962:ARG:NH2	1:S:4124:TRP:O	2.44	0.51
1:A:572:VAL:O	1:A:576:VAL:HG13	2.11	0.51
1:A:1762:MET:HA	1:A:1765:VAL:HG22	1.92	0.51
1:A:1849:ASP:OD1	1:A:1850:VAL:N	2.44	0.51
1:A:3512:VAL:HB	1:A:3516:HIS:HE1	1.76	0.51
2:B:106:GLN:HE22	2:B:115:ARG:HG2	1.76	0.51
3:C:419:LEU:HD23	3:C:419:LEU:H	1.76	0.51
3:L:269:GLN:O	3:L:271:ARG:NH1	2.38	0.51
5:Q:178:LYS:HA	5:Q:181:ILE:HG22	1.93	0.51
6:R:837:ARG:HD3	6:R:867:GLU:HB3	1.93	0.51
1:S:526:ASP:N	1:S:526:ASP:OD1	2.43	0.51
1:S:958:MET:O	1:S:962:TYR:N	2.40	0.51
1:S:1481:THR:HG23	1:S:1527:ARG:HH22	1.76	0.51
1:S:1691:GLN:HB3	1:S:1745:LYS:HZ2	1.75	0.51
1:S:2501:LEU:O	1:S:2505:VAL:HG12	2.11	0.51
1:S:2577:PHE:HB2	1:S:2783:ILE:HG21	1.91	0.51
1:S:3254:LEU:HD13	1:S:3283:LEU:HD21	1.92	0.51
2:T:106:GLN:OE1	2:T:115:ARG:NE	2.35	0.51
1:A:294:PHE:CE2	1:A:298:LEU:HD11	2.45	0.51
1:A:682:TYR:CZ	1:A:700:LYS:HG2	2.46	0.51
1:A:1470:SER:OG	1:A:1473:THR:O	2.23	0.51
1:A:1625:HIS:HA	1:A:1628:LYS:HD3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2233:HIS:CD2	1:A:2731:ARG:HG3	2.46	0.51
1:A:2746:LYS:O	1:A:2750:GLU:HG3	2.11	0.51
1:A:2824:LYS:O	1:A:2829:LYS:NZ	2.40	0.51
1:A:2976:LEU:O	1:A:2979:GLN:NE2	2.44	0.51
1:A:3505:LEU:HD11	1:A:3508:LYS:HZ1	1.76	0.51
1:A:3609:MET:HA	1:A:3612:ARG:HE	1.75	0.51
1:A:3904:PHE:CE1	1:A:3937:VAL:HB	2.46	0.51
2:B:59:PRO:HB3	2:B:205:LEU:HD23	1.93	0.51
2:B:526:LYS:O	2:B:530:TYR:N	2.44	0.51
1:S:12:LEU:HA	1:S:41:GLU:OE2	2.11	0.51
1:S:391:ARG:O	1:S:395:MET:N	2.43	0.51
1:S:849:GLU:HA	1:S:852:ARG:HG2	1.91	0.51
1:S:924:ARG:HA	1:S:927:LYS:HG2	1.92	0.51
1:S:1722:PHE:HE1	1:S:1739:TYR:HB3	1.75	0.51
1:S:2438:ILE:O	1:S:2442:MET:HB2	2.11	0.51
1:S:2560:ASN:HD21	1:S:2799:GLN:HB3	1.76	0.51
1:S:2978:LYS:O	1:S:2981:TRP:NE1	2.38	0.51
1:S:3572:ILE:HG23	1:S:3800:LEU:HD23	1.92	0.51
2:T:74:LYS:HD3	2:T:79:ASP:HA	1.92	0.51
2:T:514:MET:HE3	2:T:518:LEU:HD21	1.93	0.51
1:A:1925:GLU:HB2	1:A:1941:HIS:HE1	1.75	0.51
1:A:2105:HIS:CG	1:A:2156:VAL:HG23	2.46	0.51
1:A:2392:VAL:HA	1:A:2431:ARG:HH12	1.76	0.51
1:A:2995:GLU:O	1:A:2999:LEU:HG	2.10	0.51
1:A:3171:ALA:HA	1:A:3179:TRP:CH2	2.46	0.51
1:A:3472:ILE:HG12	1:A:3479:THR:HB	1.92	0.51
1:A:3940:ILE:HG22	1:A:3941:ASP:H	1.74	0.51
2:B:290:ARG:N	3:C:309:ASP:O	2.43	0.51
2:B:316:THR:O	2:B:318:ARG:NH1	2.44	0.51
2:B:479:GLU:HA	3:C:426:PHE:HB3	1.93	0.51
6:I:816:HIS:H	6:I:850:ALA:HA	1.76	0.51
3:L:377:LEU:O	3:L:381:ILE:HG12	2.11	0.51
1:S:261:ASP:HB3	1:S:265:TYR:HA	1.92	0.51
1:S:627:VAL:O	1:S:631:ARG:HD2	2.11	0.51
1:S:631:ARG:HH11	1:S:632:GLU:HB3	1.76	0.51
1:S:1019:ASP:O	1:S:1026:ARG:NH2	2.39	0.51
1:S:1948:ALA:HA	1:S:1951:VAL:HG22	1.92	0.51
1:S:2167:PRO:O	1:S:2170:GLN:HG2	2.11	0.51
1:S:2168:LEU:HD12	1:S:2169:LEU:N	2.26	0.51
1:S:2830:ASN:OD1	1:S:2834:GLN:NE2	2.44	0.51
1:S:2938:VAL:HG13	1:S:3974:MET:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3546:SER:O	1:S:3549:HIS:NE2	2.44	0.51
2:T:174:ASN:O	2:T:176:HIS:N	2.44	0.51
1:A:1919:CYS:O	1:A:1922:ALA:HB3	2.11	0.51
1:A:2782:ASP:N	1:A:2782:ASP:OD1	2.43	0.51
1:A:3117:ILE:HG13	1:A:3125:ARG:NE	2.25	0.51
1:A:3451:LEU:O	1:A:3455:LYS:N	2.43	0.51
1:A:3687:MET:HB3	1:A:3724:GLU:HG2	1.93	0.51
3:C:512:ILE:O	3:C:516:LEU:HG	2.10	0.51
5:H:170:GLU:O	5:H:174:THR:HG23	2.10	0.51
3:L:622:GLN:NE2	3:L:628:GLU:OE1	2.44	0.51
1:S:389:ILE:HG13	1:S:431:TYR:CE2	2.46	0.51
1:A:2168:LEU:HA	1:A:2171:LEU:HD12	1.92	0.50
1:A:2362:VAL:HG12	1:A:2366:LYS:NZ	2.26	0.50
1:A:2442:MET:O	1:A:2446:LEU:HD23	2.11	0.50
1:A:3264:LYS:HD3	1:A:3267:LYS:HZ1	1.76	0.50
1:A:3465:PHE:HB3	1:A:3466:PRO:HD3	1.93	0.50
1:A:3465:PHE:O	1:A:3469:LEU:HG	2.11	0.50
1:A:3805:TRP:CD1	1:A:3807:GLU:HG3	2.46	0.50
1:A:4039:TYR:HD2	1:A:4042:GLN:HE22	1.60	0.50
2:B:35:ARG:HG2	2:B:36:ASP:H	1.76	0.50
2:B:39:ILE:HG23	2:B:84:ALA:HB3	1.92	0.50
3:C:65:ASP:H	3:C:78:THR:HA	1.77	0.50
3:C:115:MET:SD	3:C:159:ILE:HD12	2.52	0.50
5:G:6:SER:H	5:G:20:LEU:HB3	1.76	0.50
5:G:122:VAL:O	5:G:125:GLU:HG3	2.12	0.50
3:L:233:LYS:NZ	3:L:482:ILE:HG12	2.26	0.50
1:S:960:GLN:O	1:S:964:ARG:HG2	2.11	0.50
1:S:2372:PRO:O	1:S:2374:LEU:N	2.39	0.50
1:S:2597:PHE:HA	1:S:2598:ARG:HH11	1.76	0.50
1:S:3150:ASN:O	1:S:3154:GLN:NE2	2.36	0.50
1:S:3695:LEU:HD23	1:S:3695:LEU:H	1.76	0.50
1:S:3986:HIS:HA	1:S:3989:ARG:HE	1.76	0.50
2:T:335:GLU:HA	2:T:338:LYS:HB2	1.93	0.50
1:A:324:SER:HB3	1:A:368:LEU:HD21	1.93	0.50
1:A:1105:VAL:O	1:A:1109:GLU:OE1	2.29	0.50
1:A:1635:LYS:HZ2	1:A:1683:LYS:HD3	1.76	0.50
1:A:1737:ASN:O	1:A:1740:VAL:HG22	2.12	0.50
1:A:2155:GLU:HA	1:A:2158:ARG:HG2	1.91	0.50
1:A:2271:SER:O	1:A:2274:ILE:HB	2.12	0.50
1:A:2820:MET:HA	1:A:2823:PHE:CZ	2.46	0.50
1:A:3483:MET:HE2	1:A:3486:GLU:OE2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3811:THR:HG23	1:A:3813:LYS:H	1.76	0.50
1:A:3964:THR:H	1:A:3967:PHE:HB2	1.76	0.50
3:C:327:ASP:OD1	3:C:328:GLU:N	2.42	0.50
6:I:900:LYS:HE2	6:I:903:LEU:HA	1.92	0.50
3:L:148:ASP:HA	3:L:151:ILE:HD12	1.94	0.50
3:L:186:GLY:HA3	3:L:511:HIS:HB2	1.93	0.50
3:L:210:MET:HA	3:L:213:ILE:HG12	1.94	0.50
3:L:243:HIS:HB3	2:T:445:LYS:HE3	1.92	0.50
1:S:1374:GLN:O	1:S:1378:GLU:N	2.36	0.50
1:S:1639:LEU:HA	1:S:1642:LYS:HD2	1.93	0.50
1:S:2133:LEU:HD13	1:S:2146:LEU:HD22	1.92	0.50
1:S:2257:PHE:O	1:S:2261:SER:OG	2.27	0.50
1:S:2826:LEU:HA	1:S:2829:LYS:HE2	1.92	0.50
1:S:3150:ASN:ND2	1:S:3196:LYS:HE3	2.26	0.50
1:S:3831:ASP:HB3	1:S:3832:PRO:HD3	1.92	0.50
1:S:3929:MET:SD	1:S:3938:ILE:HB	2.52	0.50
2:T:62:MET:HA	2:T:65:GLN:OE1	2.11	0.50
2:T:164:LYS:O	2:T:199:PHE:HB3	2.11	0.50
1:A:356:ASN:OD1	1:A:406:ARG:NH1	2.44	0.50
1:A:786:GLN:HA	1:A:789:TYR:CD2	2.46	0.50
1:A:963:LYS:HE3	1:A:964:ARG:HH12	1.77	0.50
1:A:2302:ALA:O	1:A:2306:ASN:ND2	2.44	0.50
1:A:2937:ASP:OD2	1:A:3979:LEU:HA	2.12	0.50
1:A:3130:GLN:HA	1:A:3133:GLN:NE2	2.27	0.50
1:A:3780:ALA:HA	1:A:3783:GLN:HG3	1.94	0.50
2:B:302:THR:HB	3:C:291:LYS:HD2	1.92	0.50
5:H:178:LYS:HA	5:H:181:ILE:HG12	1.93	0.50
1:S:374:LYS:HZ2	1:S:424:LEU:HD12	1.76	0.50
1:S:457:CYS:O	1:S:461:ILE:HG13	2.10	0.50
1:S:1782:PHE:HA	1:S:1785:ILE:HG12	1.93	0.50
1:S:2265:PRO:HG3	1:S:2269:ASP:OD1	2.11	0.50
1:S:2461:PHE:O	1:S:2464:HIS:CD2	2.65	0.50
1:S:2928:LYS:O	1:S:2932:SER:N	2.39	0.50
1:S:3793:VAL:HG23	1:S:3803:ILE:HG22	1.93	0.50
1:A:1624:GLN:O	1:A:1628:LYS:NZ	2.32	0.50
1:A:1725:GLN:HG3	1:A:1769:GLU:HG2	1.92	0.50
1:A:1764:GLU:O	1:A:1768:ARG:HG3	2.12	0.50
1:A:2094:MET:O	1:A:2097:LEU:HB2	2.11	0.50
1:A:2572:TYR:HE1	1:A:2791:ILE:HD11	1.76	0.50
1:A:3110:PHE:O	1:A:3128:LYS:NZ	2.23	0.50
1:A:3110:PHE:HD2	1:A:3135:LEU:HD11	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3130:GLN:HA	1:A:3133:GLN:HE21	1.77	0.50
1:A:3584:LEU:HB2	1:A:3617:LEU:HD11	1.93	0.50
2:B:143:LEU:HG	2:B:176:HIS:CD2	2.46	0.50
3:C:295:TYR:HB2	3:C:305:VAL:H	1.76	0.50
3:L:111:LEU:HD21	3:L:134:ILE:HG12	1.93	0.50
3:L:138:LEU:HB2	3:L:201:GLN:HG3	1.93	0.50
3:L:290:GLN:NE2	2:T:305:THR:HA	2.26	0.50
1:S:1751:GLU:O	1:S:1788:ARG:NH1	2.44	0.50
1:S:2218:PHE:HA	1:S:2221:LYS:HE2	1.93	0.50
1:S:2218:PHE:HD1	1:S:2221:LYS:HZ1	1.58	0.50
1:S:2363:CYS:O	1:S:2367:VAL:HG22	2.11	0.50
1:A:849:GLU:HG2	1:A:850:GLU:H	1.77	0.50
1:A:889:GLU:HG3	1:A:891:ARG:HG3	1.93	0.50
1:A:1169:VAL:O	1:A:1173:LEU:HG	2.11	0.50
1:A:1516:GLU:HA	1:A:1519:PHE:CD2	2.46	0.50
1:A:1528:LEU:O	1:A:1532:LEU:HG	2.11	0.50
1:A:1601:LEU:HD21	1:A:1652:ILE:HG22	1.92	0.50
1:A:1687:HIS:O	1:A:1745:LYS:NZ	2.44	0.50
1:A:2166:SER:OG	1:A:2167:PRO:HD3	2.12	0.50
1:A:2167:PRO:O	1:A:2170:GLN:HG3	2.12	0.50
1:A:2827:SER:HA	1:A:2830:ASN:HD21	1.77	0.50
1:A:3077:ILE:HG23	1:A:3081:HIS:CD2	2.46	0.50
1:A:3921:GLY:O	1:A:3944:HIS:ND1	2.45	0.50
2:B:32:TYR:OH	2:B:160:LYS:O	2.24	0.50
3:C:465:LYS:HB2	3:C:476:LEU:HD21	1.92	0.50
1:S:269:SER:O	1:S:273:ARG:HG3	2.11	0.50
1:S:994:TRP:CE2	1:S:2581:LEU:HD21	2.46	0.50
1:S:995:PHE:CE1	1:S:1004:GLN:HG3	2.46	0.50
1:S:1201:ASN:HB3	1:S:1207:TRP:CD1	2.47	0.50
1:S:1574:ASN:HD21	1:S:1578:ALA:H	1.58	0.50
1:S:2295:GLN:N	1:S:2295:GLN:OE1	2.44	0.50
1:S:3110:PHE:HB3	1:S:3128:LYS:HD2	1.94	0.50
1:A:268:PRO:O	1:A:272:LEU:HG	2.12	0.50
1:A:412:SER:O	1:A:415:GLN:HG2	2.10	0.50
1:A:2773:ARG:HG3	1:A:2789:SER:HB2	1.93	0.50
1:A:3603:LYS:NZ	1:A:3645:GLY:O	2.45	0.50
1:A:3793:VAL:HG23	1:A:3803:ILE:HG13	1.93	0.50
2:B:369:TYR:OH	3:C:436:SER:O	2.30	0.50
3:C:259:ILE:HG23	3:C:373:ALA:HB1	1.94	0.50
3:C:523:THR:HG22	3:C:527:GLN:NE2	2.27	0.50
4:D:7:PRO:HG2	4:D:76:PHE:HD2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1176:CYS:HA	1:S:1178:ARG:NH1	2.27	0.50
1:S:1784:ARG:HA	1:S:1787:ARG:CZ	2.41	0.50
1:S:2443:MET:SD	1:S:2444:PRO:HD3	2.52	0.50
1:S:3141:PHE:HB2	1:S:3189:PHE:CD2	2.47	0.50
1:S:3787:GLN:NE2	1:S:3788:LEU:O	2.45	0.50
1:A:62:ASP:O	1:A:66:LEU:HB2	2.11	0.50
1:A:133:LYS:O	1:A:136:GLN:HG2	2.11	0.50
1:A:134:LEU:HD11	1:A:177:LEU:CD2	2.41	0.50
1:A:1876:ILE:HG13	1:A:1877:LEU:HD22	1.92	0.50
1:A:2097:LEU:O	1:A:2101:VAL:HG23	2.11	0.50
1:A:2470:ARG:HA	1:A:2473:MET:CE	2.42	0.50
1:A:2578:GLU:OE1	1:A:2578:GLU:N	2.40	0.50
1:A:2830:ASN:O	1:A:2834:GLN:HG2	2.11	0.50
2:B:479:GLU:OE1	2:B:484:GLN:NE2	2.45	0.50
3:C:324:SER:OG	3:C:325:LYS:N	2.45	0.50
1:S:131:LEU:HB2	1:S:173:LYS:HE2	1.94	0.50
1:S:200:PHE:HB3	1:S:224:LEU:HD13	1.93	0.50
1:S:473:PRO:O	1:S:477:ASN:ND2	2.45	0.50
1:S:1181:THR:OG1	1:S:1265:GLU:OE1	2.26	0.50
1:S:2953:THR:HG23	1:S:2993:PHE:CE2	2.46	0.50
1:S:3739:ILE:HG23	1:S:3747:GLU:HB2	1.94	0.50
2:T:154:PHE:O	2:T:157:VAL:HG12	2.12	0.50
1:A:135:LEU:O	1:A:139:ARG:HD3	2.11	0.50
1:A:486:GLY:O	1:A:490:ILE:HG12	2.11	0.50
1:A:767:GLU:OE1	1:A:854:ARG:NE	2.45	0.50
1:A:1178:ARG:HB2	1:A:1184:ARG:HB2	1.93	0.50
1:A:2225:HIS:CD2	1:A:2230:VAL:HG23	2.46	0.50
1:A:2468:THR:O	1:A:2472:GLN:HG3	2.11	0.50
1:A:3748:HIS:HB3	1:A:3750:PHE:HE1	1.76	0.50
2:B:94:LYS:HD3	2:B:103:TYR:CZ	2.47	0.50
2:B:444:ARG:HE	3:C:268:LEU:HD12	1.75	0.50
3:C:9:ALA:HB3	3:C:130:ARG:HA	1.94	0.50
3:C:132:ILE:HD12	3:C:133:GLU:H	1.77	0.50
3:C:365:PHE:CZ	3:C:418:CYS:HB3	2.47	0.50
3:C:461:MET:HE3	3:C:526:SER:HB3	1.92	0.50
3:L:6:ASN:HB3	3:L:128:GLU:HB3	1.93	0.50
1:S:320:LEU:HA	1:S:323:VAL:HG22	1.93	0.50
1:S:382:ASP:HB3	1:S:424:LEU:HD11	1.94	0.50
1:S:1135:CYS:HB2	1:S:1194:PHE:HE2	1.77	0.50
1:S:1752:LEU:HA	1:S:1788:ARG:HH12	1.77	0.50
1:S:1780:SER:HB2	1:S:1784:ARG:NH1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2212:ALA:O	1:S:2216:LEU:HG	2.10	0.50
1:S:2584:CYS:SG	1:S:2780:LEU:HD12	2.52	0.50
1:S:3001:CYS:O	1:S:3005:LEU:N	2.39	0.50
1:S:3138:ILE:HA	1:S:3189:PHE:CZ	2.46	0.50
1:S:3235:LYS:O	1:S:3239:LYS:HG2	2.12	0.50
1:S:3288:SER:OG	1:S:3296:GLN:NE2	2.44	0.50
1:S:3442:TYR:HB3	1:S:3443:PRO:HD3	1.94	0.50
1:S:3493:TRP:HE3	1:S:3524:ASN:HB2	1.76	0.50
1:S:3530:VAL:O	1:S:3534:ILE:HG12	2.12	0.50
2:T:101:ASN:ND2	2:T:140:ASP:O	2.45	0.50
1:A:2492:ASP:OD2	1:A:2495:SER:N	2.43	0.50
1:A:3300:VAL:HG11	1:A:3360:LEU:HD21	1.94	0.50
3:C:725:VAL:HG22	1:S:1917:LYS:HE3	1.94	0.50
3:L:13:CYS:O	3:L:134:ILE:HA	2.11	0.50
1:S:110:THR:O	1:S:114:VAL:HG23	2.12	0.50
1:S:303:HIS:O	1:S:309:LYS:NZ	2.33	0.50
1:S:305:ASN:HB3	1:S:307:GLU:OE2	2.11	0.50
1:S:570:LYS:HA	1:S:573:LEU:HD12	1.94	0.50
1:S:1082:PHE:HA	1:S:1085:ILE:HG12	1.93	0.50
1:S:1115:HIS:CE1	1:S:1182:GLU:HB3	2.46	0.50
1:S:1453:SER:O	1:S:1457:GLN:HG3	2.12	0.50
1:S:1960:LYS:HD2	1:S:1960:LYS:O	2.12	0.50
1:S:2953:THR:HG1	1:S:2994:TRP:HE1	1.57	0.50
1:S:2959:ALA:HB1	1:S:2967:GLU:HG3	1.94	0.50
1:S:3546:SER:O	1:S:3550:LYS:NZ	2.44	0.50
1:S:3757:ASP:HB2	1:S:3798:SER:HA	1.93	0.50
1:S:3909:ALA:HB2	1:S:3980:MET:SD	2.52	0.50
2:T:262:LYS:NZ	2:T:346:MET:SD	2.75	0.50
1:A:217:LEU:HB2	1:A:220:LEU:HB2	1.94	0.49
1:A:2165:LEU:HD11	1:A:2200:ALA:HB1	1.93	0.49
1:A:2278:GLY:O	1:A:2282:ALA:N	2.40	0.49
1:A:2468:THR:O	1:A:2471:GLU:HG2	2.12	0.49
1:A:2473:MET:O	1:A:2477:LEU:HG	2.12	0.49
3:C:249:CYS:SG	3:C:250:ARG:N	2.84	0.49
3:L:18:PHE:N	3:L:101:GLY:O	2.45	0.49
3:L:458:ILE:HG12	2:T:350:PHE:CE2	2.47	0.49
1:S:1391:VAL:O	1:S:1395:LEU:HG	2.11	0.49
1:S:1708:GLU:HG3	1:S:1712:ARG:HD3	1.94	0.49
1:S:2227:LYS:O	1:S:2229:ALA:N	2.44	0.49
1:S:2306:ASN:HA	1:S:2309:PHE:CD2	2.47	0.49
1:S:2864:GLN:HG3	1:S:2865:HIS:ND1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3467:ARG:HH22	1:S:3474:ARG:HD3	1.77	0.49
1:S:3950:THR:HG21	1:S:3958:LEU:HB3	1.94	0.49
2:T:465:ILE:HG13	2:T:521:LEU:HD13	1.94	0.49
1:A:789:TYR:HD1	1:A:792:ILE:HD12	1.77	0.49
1:A:1189:GLU:OE1	1:A:1193:LYS:NZ	2.35	0.49
1:A:2168:LEU:O	1:A:2172:ALA:N	2.38	0.49
1:A:2786:LYS:O	1:A:2789:SER:OG	2.22	0.49
1:A:2920:VAL:HA	1:A:2923:TRP:HB2	1.94	0.49
1:A:3328:ILE:HD12	1:A:3415:THR:HG21	1.94	0.49
2:B:64:ILE:O	2:B:68:GLN:HG2	2.12	0.49
3:C:294:VAL:HG13	3:C:304:GLU:HB2	1.93	0.49
5:Q:155:TRP:HA	5:Q:158:VAL:HG22	1.94	0.49
6:R:707:ILE:HD11	2:T:500:PRO:HB3	1.94	0.49
1:S:80:GLU:O	1:S:83:GLU:HG2	2.12	0.49
1:S:237:SER:HA	1:S:281:GLN:HG3	1.93	0.49
1:S:1289:SER:HA	1:S:1292:LYS:HB3	1.94	0.49
1:S:1793:THR:O	1:S:1797:LEU:HD13	2.12	0.49
1:S:1878:ASP:OD1	1:S:1879:VAL:N	2.44	0.49
1:S:2757:ILE:O	1:S:2760:GLU:HG3	2.12	0.49
1:S:3277:VAL:HG13	1:S:3306:LEU:HB3	1.94	0.49
1:S:3323:PHE:O	1:S:3327:ASN:ND2	2.45	0.49
1:S:3578:LEU:HD21	1:S:3681:LYS:HE3	1.94	0.49
1:A:440:VAL:O	1:A:444:ASP:N	2.45	0.49
1:A:573:LEU:O	1:A:576:VAL:HG22	2.11	0.49
1:A:1334:LYS:O	1:A:1338:VAL:HG23	2.13	0.49
1:A:1484:LEU:HA	1:A:1487:VAL:HG12	1.94	0.49
1:A:1633:TRP:H	1:A:1642:LYS:HG2	1.76	0.49
1:A:3117:ILE:HG13	1:A:3125:ARG:HE	1.77	0.49
2:B:106:GLN:HB3	2:B:115:ARG:HH21	1.76	0.49
2:B:213:ILE:HD12	2:B:228:ASP:HA	1.94	0.49
6:R:723:PRO:O	6:R:727:LEU:HG	2.12	0.49
1:S:772:ALA:HB1	1:S:776:TRP:CZ2	2.46	0.49
1:S:886:TRP:CE2	1:S:912:PRO:HB3	2.48	0.49
1:S:2389:PHE:HB3	1:S:2393:LEU:HB2	1.95	0.49
1:S:3337:ILE:HD13	1:S:3360:LEU:HD12	1.94	0.49
1:S:3383:GLN:O	1:S:3387:GLU:HG3	2.12	0.49
1:S:4002:MET:SD	1:S:4044:ILE:HG22	2.51	0.49
1:A:434:VAL:O	1:A:438:LEU:HG	2.12	0.49
1:A:724:GLU:OE1	1:A:2600:THR:N	2.43	0.49
1:A:1766:LEU:HD11	1:A:1775:GLU:HG2	1.93	0.49
1:A:1871:MET:HE3	1:A:1940:TYR:HA	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3008:TRP:HA	1:A:3011:LEU:HG	1.94	0.49
1:A:3499:ILE:O	1:A:3503:VAL:HG12	2.12	0.49
1:A:3874:ARG:O	1:A:3878:VAL:HG12	2.11	0.49
2:B:240:GLU:HG2	2:B:241:ASP:H	1.77	0.49
3:C:728:LEU:HG	1:S:1916:ILE:HD12	1.95	0.49
3:C:731:MET:N	1:S:1913:LYS:HG2	2.16	0.49
5:H:159:GLN:HG3	6:I:843:LEU:HD12	1.93	0.49
3:L:479:THR:HG21	2:T:410:PHE:CG	2.48	0.49
3:L:635:SER:O	3:L:639:ILE:HG12	2.12	0.49
1:S:2928:LYS:HA	1:S:2931:ARG:HG2	1.93	0.49
1:S:3047:SER:O	1:S:3051:LEU:HG	2.11	0.49
1:S:3311:ASN:HB2	1:S:3314:SER:HA	1.94	0.49
1:A:658:THR:HG1	1:A:659:ARG:NH1	2.11	0.49
1:A:717:LYS:HZ2	1:A:720:GLN:HG2	1.77	0.49
1:A:1257:LEU:O	1:A:1261:LEU:HG	2.12	0.49
1:A:1368:LEU:HD12	1:A:1372:LEU:HD23	1.94	0.49
1:A:2228:ARG:HA	1:A:2231:PHE:HB3	1.94	0.49
1:A:2346:ALA:HA	1:A:2349:LEU:HD12	1.94	0.49
1:A:2377:ARG:HB2	1:A:2378:PHE:CE2	2.47	0.49
1:A:3239:LYS:HD3	1:A:3262:LEU:HD22	1.95	0.49
1:A:3596:LEU:HA	1:A:3602:ASN:HD21	1.77	0.49
1:A:3759:ARG:HH21	1:A:4005:PHE:HE2	1.61	0.49
2:B:76:ILE:HG21	2:B:247:ARG:HA	1.93	0.49
2:B:299:LYS:HZ3	3:C:296:CYS:HB3	1.77	0.49
6:I:815:ARG:H	6:I:850:ALA:N	2.10	0.49
1:S:172:GLU:HB3	1:S:175:TYR:CE2	2.47	0.49
1:S:185:HIS:HB3	1:S:190:ILE:HD11	1.93	0.49
1:S:410:MET:O	1:S:414:LEU:HG	2.12	0.49
1:S:976:VAL:O	1:S:2598:ARG:NH2	2.45	0.49
1:S:1476:HIS:HD2	1:S:1521:PHE:CD1	2.29	0.49
1:S:1589:ASN:HB3	1:S:1592:MET:SD	2.52	0.49
1:S:1696:LEU:HG	1:S:1697:PRO:HD3	1.94	0.49
1:S:1713:VAL:HA	1:S:1716:GLN:HG2	1.95	0.49
1:S:2324:GLY:HA3	1:S:2367:VAL:HA	1.93	0.49
1:S:2443:MET:HA	1:S:2446:LEU:HD13	1.95	0.49
1:S:2817:LEU:HD12	1:S:2865:HIS:CE1	2.48	0.49
1:S:2880:CYS:O	1:S:2885:GLN:N	2.46	0.49
1:S:3151:LEU:HD23	1:S:3151:LEU:H	1.77	0.49
2:T:345:LEU:HB3	2:T:398:CYS:SG	2.53	0.49
1:A:300:TRP:HE3	1:A:308:LEU:HD21	1.78	0.49
1:A:560:LEU:HD13	1:A:563:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2211:LEU:HA	1:A:2214:ARG:HG2	1.94	0.49
1:A:2386:LEU:HB3	1:A:2387:PRO:HD3	1.94	0.49
1:A:3100:LYS:HA	1:A:3103:ILE:HG22	1.95	0.49
1:A:3177:ASN:OD1	1:A:3178:ILE:N	2.46	0.49
1:A:3864:ARG:CZ	1:A:4085:LYS:HG3	2.42	0.49
2:B:374:LEU:O	3:C:541:GLU:HA	2.13	0.49
2:B:423:GLN:HB2	2:B:425:ILE:HG12	1.94	0.49
3:C:8:ALA:HB2	3:C:129:LYS:HE2	1.93	0.49
3:L:291:LYS:HA	2:T:302:THR:HA	1.94	0.49
3:L:383:ALA:HB3	2:T:462:MET:HE2	1.94	0.49
1:S:560:LEU:O	1:S:564:LEU:HG	2.12	0.49
1:S:762:TYR:CD2	1:S:764:PRO:HD2	2.48	0.49
1:S:1018:VAL:HA	1:S:1073:PHE:HB3	1.94	0.49
1:S:1935:GLU:O	1:S:1939:LEU:HG	2.12	0.49
1:S:2184:TYR:HD1	1:S:2734:ARG:HH21	1.60	0.49
1:S:2347:LYS:O	1:S:2351:GLN:N	2.44	0.49
1:S:2796:ALA:O	1:S:2800:ARG:HG2	2.12	0.49
1:S:3314:SER:HB2	1:S:3318:LYS:HE3	1.94	0.49
1:S:3912:CYS:HA	1:S:3915:HIS:CD2	2.48	0.49
1:A:156:PHE:HA	1:A:159:GLU:HG2	1.93	0.49
1:A:172:GLU:HA	1:A:174:VAL:HG12	1.93	0.49
1:A:253:LEU:HD21	1:A:268:PRO:HA	1.94	0.49
1:A:703:CYS:HB3	1:A:707:PHE:CZ	2.48	0.49
1:A:849:GLU:H	1:A:849:GLU:CD	2.14	0.49
1:A:1868:THR:O	1:A:1871:MET:HB2	2.11	0.49
1:A:2208:ASP:OD1	1:A:2209:GLU:N	2.45	0.49
1:A:2266:ASN:HB2	1:A:2311:ARG:HB2	1.94	0.49
1:A:2332:GLU:OE1	1:A:2334:LYS:NZ	2.44	0.49
1:A:3180:ASP:OD1	1:A:3181:ASP:N	2.46	0.49
1:A:3190:LEU:HB3	1:A:3231:ILE:HD11	1.94	0.49
1:A:3254:LEU:HD23	1:A:3255:ALA:N	2.27	0.49
2:B:165:ARG:NH2	4:D:186:ILE:O	2.46	0.49
6:I:812:MET:C	6:I:850:ALA:HB3	2.33	0.49
1:S:384:MET:O	1:S:387:GLU:HG2	2.12	0.49
1:S:2330:VAL:HG12	1:S:2333:ARG:HH12	1.77	0.49
1:S:3450:MET:HG2	1:S:3464:LYS:HG2	1.95	0.49
1:S:3589:SER:HB3	1:S:3593:ARG:CZ	2.43	0.49
1:S:3762:GLN:HG2	1:S:3766:GLN:NE2	2.27	0.49
1:S:3988:LEU:HB3	1:S:4100:GLU:HB3	1.93	0.49
2:T:523:ASP:O	2:T:527:GLU:HG2	2.12	0.49
1:A:861:SER:N	1:A:3136:THR:HG21	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1343:GLU:O	1:A:1346:THR:OG1	2.26	0.49
1:A:3008:TRP:HB3	1:A:3050:LYS:HE2	1.95	0.49
1:A:3512:VAL:HB	1:A:3516:HIS:CE1	2.47	0.49
1:A:3593:ARG:HG2	1:A:3657:SER:HA	1.95	0.49
1:A:3629:ARG:O	1:A:3633:ILE:HG12	2.12	0.49
1:A:3737:ARG:CZ	1:A:3739:ILE:HG12	2.43	0.49
2:B:59:PRO:HA	2:B:62:MET:HG2	1.94	0.49
3:C:135:PHE:CD1	3:C:164:PHE:HB2	2.48	0.49
3:C:183:PHE:HB2	3:C:192:PHE:HA	1.94	0.49
3:L:108:LEU:HB3	3:L:146:GLN:HB2	1.94	0.49
1:S:1690:GLY:HA2	1:S:1693:VAL:HG22	1.93	0.49
1:S:2138:VAL:HG13	1:S:2143:ARG:HG2	1.95	0.49
1:S:3133:GLN:O	1:S:3136:THR:HG22	2.13	0.49
1:A:764:PRO:O	1:A:768:VAL:HG22	2.13	0.49
1:A:2353:GLN:HB3	1:A:2360:PHE:HB2	1.93	0.49
1:A:2596:ARG:O	1:A:2598:ARG:NH1	2.45	0.49
1:A:3312:VAL:O	1:A:3316:LEU:N	2.38	0.49
1:A:3608:LYS:O	1:A:3611:GLU:HG3	2.13	0.49
1:A:3740:ILE:HB	1:A:3748:HIS:HB2	1.94	0.49
1:A:3749:PRO:HB2	1:A:3805:TRP:CD1	2.47	0.49
1:A:3966:GLN:HA	1:A:3969:ASN:HB2	1.94	0.49
2:B:82:LEU:HD12	2:B:108:LEU:O	2.12	0.49
3:C:191:SER:OG	3:C:192:PHE:N	2.46	0.49
3:C:617:ILE:HD13	3:C:620:ILE:HD11	1.94	0.49
5:G:100:ASN:OD1	5:G:105:SER:OG	2.26	0.49
1:S:176:GLU:HG3	1:S:226:GLY:HA3	1.95	0.49
1:S:1295:ALA:HA	1:S:1298:LEU:HD12	1.95	0.49
1:S:1873:TYR:O	1:S:1877:LEU:HD23	2.12	0.49
1:S:2953:THR:OG1	1:S:2994:TRP:NE1	2.43	0.49
1:S:3353:GLU:HG2	1:S:3357:ARG:HE	1.78	0.49
1:S:3639:GLU:OE2	1:S:3643:HIS:NE2	2.46	0.49
1:A:219:VAL:HG12	1:A:223:CYS:SG	2.53	0.49
1:A:1189:GLU:O	1:A:1193:LYS:HG2	2.13	0.49
1:A:1363:LEU:HD23	1:A:1366:THR:HA	1.95	0.49
1:A:1416:GLU:HA	1:A:1419:LEU:HD12	1.95	0.49
1:A:1469:PRO:O	1:A:1476:HIS:NE2	2.46	0.49
1:A:1878:ASP:HB3	1:A:1947:CYS:HA	1.94	0.49
1:A:2304:VAL:O	1:A:2307:MET:HB2	2.13	0.49
1:A:2402:LEU:HD21	1:A:2434:VAL:HB	1.94	0.49
1:A:2435:CYS:O	1:A:2439:ILE:HG12	2.13	0.49
1:A:2464:HIS:CD2	1:A:2465:PRO:HD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3188:PHE:O	1:A:3192:LYS:HG2	2.13	0.49
1:A:3471:ILE:HA	1:A:3474:ARG:HD3	1.95	0.49
1:A:3768:PHE:HB3	1:A:3790:THR:HG21	1.95	0.49
1:A:3894:PRO:O	1:A:3898:LEU:HG	2.13	0.49
2:B:146:VAL:HA	2:B:149:VAL:HG22	1.95	0.49
1:S:23:ASP:N	1:S:23:ASP:OD1	2.45	0.49
1:S:639:ALA:O	1:S:643:GLU:N	2.46	0.49
1:S:893:SER:H	1:S:944:LYS:HZ3	1.61	0.49
1:S:1524:LEU:O	1:S:1528:LEU:HG	2.12	0.49
1:S:1752:LEU:HA	1:S:1788:ARG:HH22	1.78	0.49
1:S:2300:PHE:HB3	1:S:2303:LEU:HD12	1.94	0.49
1:S:3048:LYS:HD3	1:S:3061:LEU:HB3	1.94	0.49
2:T:531:PRO:HD2	2:T:534:TYR:HD2	1.77	0.49
1:A:771:ASN:HA	1:A:774:GLU:CD	2.33	0.48
1:A:1413:ASP:O	1:A:1416:GLU:HG2	2.13	0.48
1:A:1664:SER:HA	1:A:1668:PHE:CD2	2.48	0.48
1:A:1750:LEU:HD11	1:A:1755:SER:O	2.12	0.48
1:A:3247:ARG:HE	1:A:3282:ARG:NH1	2.11	0.48
1:A:3289:ARG:NH1	1:A:3295:GLU:OE2	2.40	0.48
1:A:3387:GLU:O	1:A:3390:GLN:NE2	2.46	0.48
1:A:4087:HIS:HA	1:A:4090:ARG:HD2	1.95	0.48
2:B:181:ALA:HB1	2:B:185:ARG:NH2	2.28	0.48
2:B:255:ALA:HA	2:B:274:TYR:CE2	2.48	0.48
2:B:422:ASP:N	2:B:422:ASP:OD1	2.45	0.48
3:C:71:GLY:C	3:C:73:GLN:H	2.15	0.48
3:C:633:MET:HA	3:C:636:ILE:HG22	1.95	0.48
3:C:688:LYS:HG3	3:C:695:SER:HA	1.94	0.48
3:L:264:TYR:O	3:L:363:LYS:N	2.45	0.48
3:L:450:GLN:HG2	3:L:536:LEU:HB3	1.95	0.48
6:R:681:ARG:HH22	6:R:726:LEU:HD11	1.77	0.48
1:S:1196:PRO:HD3	1:S:1203:SER:HB2	1.95	0.48
1:S:1803:GLU:HA	1:S:1806:ARG:NH2	2.27	0.48
1:S:2341:LEU:HD13	1:S:2344:LEU:HD12	1.94	0.48
1:S:2824:LYS:O	1:S:2829:LYS:NZ	2.33	0.48
1:S:3287:ARG:O	1:S:3289:ARG:NH2	2.39	0.48
1:S:3482:LEU:HA	1:S:3485:LYS:HZ3	1.78	0.48
2:T:523:ASP:N	2:T:523:ASP:OD1	2.43	0.48
1:A:391:ARG:NH1	1:A:394:GLN:HB3	2.28	0.48
1:A:472:GLY:O	1:A:475:LEU:HG	2.12	0.48
1:A:579:LEU:HD13	1:A:623:PHE:HD1	1.78	0.48
1:A:1046:PRO:O	1:A:1050:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1502:SER:OG	1:A:1503:LEU:N	2.46	0.48
1:A:1505:LEU:HA	1:A:1508:LYS:HD2	1.95	0.48
1:A:1669:PRO:O	1:A:1673:THR:N	2.33	0.48
1:A:1769:GLU:O	1:A:1772:HIS:ND1	2.46	0.48
1:A:2126:MET:HA	1:A:2129:LEU:HD12	1.94	0.48
1:A:2572:TYR:CE1	1:A:2791:ILE:HD11	2.48	0.48
1:A:3302:LYS:O	1:A:3303:THR:OG1	2.20	0.48
1:A:3551:ASN:O	1:A:3555:VAL:HG13	2.13	0.48
1:A:4041:ARG:O	1:A:4044:ILE:HG12	2.13	0.48
2:B:463:LYS:O	2:B:467:GLU:HG2	2.14	0.48
2:B:505:ASP:OD2	2:B:508:LEU:HG	2.13	0.48
3:C:647:ILE:HA	3:C:652:GLU:HG2	1.95	0.48
3:L:150:ILE:O	3:L:154:LEU:HG	2.13	0.48
3:L:665:LYS:O	3:L:669:LYS:HG2	2.13	0.48
6:R:723:PRO:O	6:R:726:LEU:HG	2.13	0.48
1:S:149:ILE:O	1:S:153:PHE:N	2.36	0.48
1:S:186:PRO:O	1:S:190:ILE:HG12	2.12	0.48
1:S:370:ALA:HB1	1:S:381:VAL:HG13	1.95	0.48
1:S:786:GLN:HA	1:S:789:TYR:CD2	2.48	0.48
1:S:996:THR:HG21	1:S:1039:TRP:HD1	1.78	0.48
1:S:2157:PHE:HB2	1:S:2160:TYR:HB3	1.94	0.48
1:S:2371:PHE:CZ	1:S:2373:PRO:HG2	2.48	0.48
1:S:2724:ASP:HA	1:S:2727:ARG:NE	2.27	0.48
1:S:2922:ARG:HA	1:S:2925:GLU:HB2	1.94	0.48
1:S:3547:THR:HG23	1:S:3550:LYS:HD2	1.94	0.48
1:S:3915:HIS:HA	1:S:3918:LEU:HB3	1.95	0.48
1:A:1119:LYS:N	1:A:1119:LYS:HD3	2.27	0.48
1:A:1172:LEU:O	1:A:1176:CYS:N	2.45	0.48
1:A:1256:TRP:O	1:A:1260:LEU:HG	2.13	0.48
1:A:1560:TYR:CE1	1:A:1596:VAL:HG12	2.48	0.48
1:A:1916:ILE:HG13	1:A:1917:LYS:H	1.78	0.48
1:A:3169:PRO:HG3	1:A:3183:ILE:HD11	1.94	0.48
1:A:3867:THR:HG23	1:A:4118:GLY:CA	2.43	0.48
3:L:468:GLU:O	3:L:469:LYS:HG3	2.11	0.48
4:M:5:SER:HA	4:M:131:ARG:HH12	1.77	0.48
1:S:620:PHE:HB3	1:S:2603:THR:HG21	1.95	0.48
1:S:1419:LEU:HG	1:S:1467:ILE:HD13	1.94	0.48
1:S:2090:ARG:HG3	1:S:2092:GLU:OE2	2.12	0.48
1:S:2281:MET:HE3	1:S:2326:ILE:HD13	1.95	0.48
1:S:2288:TYR:OH	1:S:2293:GLY:HA3	2.14	0.48
1:S:2799:GLN:HE22	1:S:2800:ARG:HE	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2834:GLN:HA	1:S:2837:LEU:HD12	1.94	0.48
1:S:3371:GLU:HB2	1:S:3372:LYS:HZ2	1.78	0.48
2:T:340:PHE:HB3	2:T:408:PRO:CD	2.43	0.48
2:T:413:LEU:HD11	2:T:434:LEU:HD12	1.95	0.48
2:T:413:LEU:HB3	2:T:432:PHE:CD2	2.48	0.48
1:A:364:ARG:HB2	1:A:415:GLN:HE21	1.78	0.48
1:A:364:ARG:HB2	1:A:415:GLN:NE2	2.28	0.48
1:A:725:LEU:O	1:A:728:SER:OG	2.27	0.48
1:A:772:ALA:HA	1:A:775:GLU:CD	2.33	0.48
1:A:1760:GLU:O	1:A:1763:THR:N	2.46	0.48
1:A:2965:TYR:HB3	1:A:3001:CYS:HB2	1.93	0.48
1:A:2988:GLU:HA	1:A:2991:LYS:HE2	1.94	0.48
1:A:3262:LEU:HB2	1:A:3276:TRP:CD1	2.47	0.48
1:A:3867:THR:HG23	1:A:4118:GLY:N	2.28	0.48
2:B:46:LYS:NZ	2:B:137:HIS:O	2.41	0.48
2:B:167:MET:CE	2:B:203:MET:HG2	2.43	0.48
3:C:381:ILE:HD12	3:C:410:PRO:HB3	1.95	0.48
3:C:599:ARG:HG2	3:C:603:LYS:HZ1	1.77	0.48
3:C:656:ASN:CG	3:C:689:GLU:H	2.17	0.48
3:L:309:ASP:HB3	2:T:289:TYR:CE1	2.46	0.48
5:Q:181:ILE:HD12	5:Q:184:LEU:HD12	1.94	0.48
1:S:382:ASP:OD1	1:S:383:PHE:N	2.46	0.48
1:S:1027:ASP:O	1:S:1031:ARG:HG2	2.13	0.48
1:S:1307:ILE:HG12	1:S:1311:LYS:HD2	1.95	0.48
1:S:1583:MET:O	1:S:1629:CYS:HB2	2.13	0.48
1:S:2923:TRP:CE3	1:S:2942:ILE:HG23	2.48	0.48
2:T:143:LEU:HG	2:T:176:HIS:CD2	2.48	0.48
1:A:476:ARG:NH2	1:A:1562:LEU:HD23	2.26	0.48
1:A:753:GLN:HA	1:A:756:PHE:CD2	2.49	0.48
1:A:914:VAL:HG13	1:A:934:LEU:HD21	1.94	0.48
1:A:1157:PHE:HB2	1:A:1168:LEU:HD11	1.95	0.48
1:A:1526:GLU:CD	1:A:1526:GLU:H	2.16	0.48
1:A:1780:SER:O	1:A:1784:ARG:HG3	2.14	0.48
1:A:3090:TYR:HB3	1:A:3095:ASP:HB2	1.96	0.48
1:A:3578:LEU:O	1:A:3734:ARG:NH1	2.46	0.48
1:A:3913:ILE:HD13	1:A:3987:ALA:HB3	1.95	0.48
2:B:282:LYS:NZ	2:B:483:LEU:HD23	2.28	0.48
3:C:229:GLU:HG3	3:C:232:ARG:NH2	2.28	0.48
3:C:301:ASP:OD1	3:C:302:GLU:N	2.36	0.48
4:M:37:PHE:HE1	4:M:73:THR:HG23	1.78	0.48
1:S:23:ASP:HB3	1:S:34:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:330:ASN:HB3	1:S:332:GLU:HG3	1.94	0.48
1:S:446:PHE:HA	1:S:449:TYR:CE2	2.49	0.48
1:S:581:LEU:HD12	1:S:620:PHE:CD1	2.49	0.48
1:S:1608:ARG:HB3	1:S:1612:LYS:HE3	1.94	0.48
1:S:2225:HIS:CG	1:S:2230:VAL:HG23	2.49	0.48
1:S:3413:TYR:CD1	1:S:3449:LYS:HB3	2.49	0.48
1:S:3501:HIS:HE1	1:S:4004:VAL:HG21	1.79	0.48
1:S:4055:ASN:HB3	1:S:4058:VAL:HB	1.94	0.48
1:A:385:TYR:HE2	1:A:428:PRO:HG2	1.78	0.48
1:A:1279:LEU:HB3	1:A:1356:TRP:HE1	1.78	0.48
1:A:2328:ARG:HB2	1:A:2370:SER:O	2.14	0.48
1:A:3156:PRO:HA	1:A:3159:ARG:NE	2.29	0.48
1:A:3188:PHE:O	1:A:3191:SER:OG	2.26	0.48
2:B:55:ASP:OD1	2:B:56:GLU:N	2.46	0.48
2:B:207:LYS:HG2	2:B:209:GLY:H	1.79	0.48
2:B:384:ALA:HB2	3:C:446:PRO:HG3	1.96	0.48
5:G:197:LYS:HZ3	5:H:198:LEU:HD13	1.78	0.48
3:L:405:VAL:HG22	3:L:426:PHE:CE1	2.49	0.48
1:S:34:LEU:O	1:S:38:LEU:HG	2.14	0.48
1:S:296:VAL:HA	1:S:299:LYS:HG2	1.96	0.48
1:S:985:GLU:HA	1:S:988:VAL:HG22	1.95	0.48
1:S:1220:LEU:N	1:S:1285:GLU:OE1	2.47	0.48
1:S:1592:MET:SD	1:S:1592:MET:N	2.86	0.48
1:S:2507:ILE:HG23	1:S:2550:ILE:HD13	1.95	0.48
1:S:2983:ASP:OD1	1:S:2983:ASP:N	2.43	0.48
1:S:3369:ASP:O	1:S:3373:VAL:HG23	2.13	0.48
1:S:3946:PHE:HZ	1:S:4047:ALA:HB2	1.78	0.48
1:S:3962:ARG:HH22	1:S:4125:GLU:HB3	1.78	0.48
2:T:130:ARG:O	2:T:134:MET:HG3	2.14	0.48
1:A:623:PHE:O	1:A:626:LEU:HG	2.14	0.48
1:A:916:GLU:O	1:A:920:THR:N	2.43	0.48
1:A:1271:ILE:HG13	1:A:1272:GLY:N	2.28	0.48
1:A:2494:ASP:HA	1:A:2497:GLU:OE1	2.14	0.48
1:A:3244:ASP:O	1:A:3248:LYS:HG3	2.13	0.48
1:A:3349:ALA:HA	1:A:3352:GLU:HB3	1.95	0.48
1:A:3733:ARG:NE	1:A:3755:GLY:H	2.12	0.48
2:B:131:PHE:O	2:B:135:MET:N	2.47	0.48
5:H:142:GLU:O	5:H:145:GLN:HG3	2.14	0.48
3:L:111:LEU:HD21	3:L:134:ILE:CG1	2.42	0.48
3:L:660:LYS:HE2	3:L:687:THR:HB	1.95	0.48
1:S:192:ASN:O	1:S:196:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2281:MET:SD	1:S:2325:LEU:HB3	2.54	0.48
1:S:2330:VAL:HG13	1:S:2333:ARG:HH22	1.78	0.48
1:S:2572:TYR:HE1	1:S:2791:ILE:HD11	1.79	0.48
1:S:3236:PHE:HB3	1:S:3272:TRP:CE3	2.48	0.48
1:A:416:SER:O	1:A:419:SER:OG	2.29	0.48
1:A:3173:MET:SD	1:A:3783:GLN:HG2	2.54	0.48
1:A:3464:LYS:O	1:A:3468:LEU:HG	2.14	0.48
1:A:4039:TYR:N	1:A:4042:GLN:OE1	2.42	0.48
5:G:143:HIS:O	5:G:146:LYS:HG2	2.14	0.48
6:I:727:LEU:O	6:I:731:LYS:HG2	2.14	0.48
3:L:643:ARG:HG2	3:L:685:LEU:HD13	1.95	0.48
6:R:879:ARG:NH2	6:R:886:PHE:O	2.35	0.48
1:S:67:VAL:HG12	1:S:71:LYS:HZ3	1.79	0.48
1:S:250:ASN:HA	1:S:253:LEU:HD13	1.94	0.48
1:S:269:SER:OG	1:S:273:ARG:NH1	2.46	0.48
1:S:344:GLN:O	1:S:348:ILE:HG12	2.14	0.48
1:S:668:LYS:O	1:S:672:ILE:HG12	2.14	0.48
1:S:1224:PHE:CE1	1:S:1266:CYS:HB3	2.47	0.48
1:S:1250:LEU:O	1:S:1254:LEU:HG	2.14	0.48
1:S:1560:TYR:CE1	1:S:1596:VAL:HG12	2.49	0.48
1:S:1727:ARG:NH1	1:S:1771:GLN:O	2.47	0.48
1:S:1848:ILE:HG12	1:S:1915:LEU:HD11	1.95	0.48
1:S:3293:CYS:SG	1:S:3340:ALA:HB1	2.54	0.48
2:T:173:ASP:HB3	2:T:217:TYR:CE2	2.49	0.48
1:A:194:GLU:O	1:A:198:ARG:HG3	2.14	0.48
1:A:434:VAL:O	1:A:438:LEU:N	2.45	0.48
1:A:1740:VAL:HA	1:A:1743:MET:HG2	1.95	0.48
1:A:3864:ARG:NE	1:A:4085:LYS:HG3	2.28	0.48
2:B:466:VAL:HG11	3:C:389:MET:HG3	1.96	0.48
3:C:416:TYR:HE2	3:C:418:CYS:HG	1.61	0.48
3:C:523:THR:O	3:C:527:GLN:NE2	2.34	0.48
5:G:155:TRP:O	5:G:159:GLN:HG2	2.14	0.48
3:L:260:ARG:HB2	3:L:367:ALA:HB2	1.96	0.48
3:L:644:GLU:O	3:L:648:LYS:HG3	2.14	0.48
1:S:894:PHE:HZ	1:S:2787:HIS:CD2	2.31	0.48
1:S:1708:GLU:OE2	1:S:1712:ARG:HB3	2.14	0.48
1:S:2187:VAL:HA	1:S:2190:VAL:HG22	1.96	0.48
1:S:2281:MET:CE	1:S:2326:ILE:HD13	2.43	0.48
1:S:2433:LYS:HE3	1:S:2468:THR:OG1	2.14	0.48
1:S:2859:GLN:NE2	1:S:2888:VAL:HG13	2.28	0.48
1:S:3052:LEU:HD11	1:S:3061:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:4054:ALA:HA	1:S:4096:SER:HA	1.96	0.48
1:A:384:MET:O	1:A:387:GLU:HG2	2.14	0.48
1:A:449:TYR:HB3	1:A:453:MET:SD	2.54	0.48
1:A:741:ILE:HA	1:A:748:TYR:CZ	2.48	0.48
1:A:947:GLN:HG2	1:A:2577:PHE:CE1	2.48	0.48
1:A:1008:ALA:O	1:A:1011:GLU:HG2	2.14	0.48
1:A:1645:VAL:O	1:A:1649:LEU:HD23	2.14	0.48
1:A:1920:TYR:OH	1:A:1962:TYR:O	2.29	0.48
1:A:2389:PHE:O	1:A:2394:LYS:HE2	2.13	0.48
1:A:2527:HIS:O	1:A:2531:LEU:N	2.46	0.48
1:A:2919:ASP:O	1:A:2922:ARG:HG2	2.14	0.48
1:A:3015:SER:HA	1:A:3044:MET:HE2	1.96	0.48
1:A:3241:LYS:HA	1:A:3244:ASP:OD2	2.14	0.48
3:C:295:TYR:OH	3:C:307:LYS:NZ	2.32	0.48
3:L:323:PHE:CZ	3:L:328:GLU:HB2	2.49	0.48
3:L:497:ARG:NH1	3:L:503:GLU:O	2.47	0.48
3:L:608:SER:HA	3:L:651:GLU:HG2	1.96	0.48
6:R:814:ARG:H	6:R:849:GLY:HA2	1.77	0.48
6:R:837:ARG:NH1	6:R:867:GLU:OE1	2.47	0.48
1:S:139:ARG:NH2	1:S:230:LEU:HD11	2.26	0.48
1:S:176:GLU:OE1	1:S:176:GLU:N	2.35	0.48
1:S:1039:TRP:NE1	1:S:1043:GLN:HG2	2.28	0.48
1:S:1167:ASP:HA	1:S:1170:LYS:NZ	2.28	0.48
1:S:1258:ASP:HA	1:S:1261:LEU:HD12	1.95	0.48
1:S:1357:LYS:HG3	1:S:1361:LYS:HZ3	1.77	0.48
1:S:2427:ARG:HH21	1:S:2464:HIS:HB3	1.79	0.48
1:S:3182:ILE:HG13	1:S:3183:ILE:HG12	1.96	0.48
1:S:3493:TRP:CD1	1:S:3520:GLU:HB3	2.49	0.48
1:S:3563:ASP:HB2	1:S:3697:ASN:HD22	1.78	0.48
1:S:3855:TYR:HB3	1:S:3859:TYR:CZ	2.49	0.48
1:A:532:ARG:O	1:A:536:SER:N	2.47	0.47
1:A:2356:MET:SD	1:A:2357:GLU:N	2.87	0.47
1:A:2428:ASP:CB	1:A:2431:ARG:HD3	2.44	0.47
1:A:3852:VAL:HA	1:A:3855:TYR:CZ	2.49	0.47
2:B:166:ILE:N	2:B:199:PHE:O	2.47	0.47
3:C:247:TRP:HB3	3:C:263:ALA:HB3	1.96	0.47
5:H:180:PHE:HE2	6:I:799:LEU:HD11	1.78	0.47
3:L:430:LEU:HD11	2:T:475:SER:HB3	1.96	0.47
3:L:508:ILE:HD13	2:T:340:PHE:CE1	2.49	0.47
1:S:293:LEU:HA	1:S:296:VAL:HG22	1.96	0.47
1:S:1048:GLN:OE1	1:S:1051:LYS:NZ	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1191:PHE:O	1:S:1195:VAL:HG23	2.14	0.47
1:S:1642:LYS:O	1:S:1646:LEU:HG	2.14	0.47
1:S:1773:VAL:HG12	1:S:1773:VAL:O	2.14	0.47
1:S:3644:PHE:HZ	1:S:3660:ASN:HA	1.79	0.47
1:A:65:LEU:O	1:A:69:VAL:HG22	2.14	0.47
1:A:738:HIS:O	1:A:742:GLU:N	2.47	0.47
1:A:850:GLU:HG2	1:A:854:ARG:HH22	1.77	0.47
1:A:1784:ARG:HA	1:A:1787:ARG:HH11	1.79	0.47
1:A:1962:TYR:HB2	3:L:725:VAL:HG21	1.95	0.47
1:A:3389:VAL:HG11	1:A:3449:LYS:HZ2	1.79	0.47
1:A:3529:ILE:O	1:A:3533:PHE:N	2.26	0.47
1:A:3586:LYS:HZ1	1:A:3668:LEU:HD22	1.79	0.47
1:A:3750:PHE:CZ	1:A:3804:GLU:HG2	2.50	0.47
1:A:4085:LYS:O	1:A:4089:ILE:HG23	2.14	0.47
2:B:68:GLN:O	2:B:72:ILE:HG12	2.13	0.47
2:B:285:PRO:HB3	3:C:312:GLN:HG3	1.96	0.47
3:C:349:SER:O	3:C:352:GLN:NE2	2.43	0.47
3:L:16:VAL:HG21	3:L:58:LEU:HB3	1.96	0.47
3:L:153:SER:HA	3:L:156:LYS:HG2	1.94	0.47
5:Q:179:ARG:O	5:Q:182:LEU:HG	2.14	0.47
1:S:246:ARG:HG3	1:S:282:PHE:HZ	1.78	0.47
1:S:309:LYS:O	1:S:313:LEU:HG	2.14	0.47
1:S:1086:TYR:CZ	1:S:1090:ARG:HD3	2.48	0.47
1:S:1118:GLU:HG3	1:S:1121:LEU:HB2	1.95	0.47
1:S:1322:THR:O	1:S:1326:GLU:N	2.48	0.47
1:S:1732:GLY:HA2	1:S:1737:ASN:HD21	1.79	0.47
1:S:1868:THR:HA	1:S:1871:MET:HE2	1.96	0.47
1:S:2169:LEU:HD21	1:S:2208:ASP:HA	1.95	0.47
1:S:2304:VAL:HG11	1:S:2345:VAL:HG12	1.97	0.47
1:A:14:ARG:O	1:A:18:THR:HG23	2.15	0.47
1:A:1589:ASN:CG	1:A:1592:MET:HG3	2.34	0.47
1:A:1878:ASP:HA	1:A:1881:TYR:CD2	2.49	0.47
1:A:2805:ALA:HA	1:A:2808:LEU:HD12	1.97	0.47
1:A:3324:ARG:HH11	1:A:3412:ALA:HB2	1.78	0.47
1:A:3414:MET:CE	1:A:3460:GLU:HG3	2.44	0.47
1:A:3444:ALA:HB1	1:A:3482:LEU:HD11	1.95	0.47
1:A:3740:ILE:HB	1:A:3748:HIS:O	2.14	0.47
3:C:280:ASP:HB2	3:C:289:ILE:HD11	1.96	0.47
3:L:600:VAL:HA	3:L:603:LYS:HG2	1.97	0.47
6:R:721:VAL:HA	6:R:742:PHE:CE2	2.47	0.47
1:S:125:ILE:H	1:S:125:ILE:HD12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:448:GLN:HG2	1:S:520:LYS:HB2	1.95	0.47
1:S:484:HIS:O	1:S:487:LEU:HG	2.14	0.47
1:S:996:THR:OG1	1:S:1040:SER:HB3	2.14	0.47
1:S:2380:ASN:O	1:S:2384:PHE:N	2.43	0.47
1:S:3101:TYR:O	1:S:3104:GLN:HG3	2.15	0.47
1:S:3123:GLN:OE1	1:S:3123:GLN:N	2.42	0.47
1:A:343:GLU:HG2	1:A:344:GLN:H	1.78	0.47
1:A:1111:LEU:HD12	1:A:1127:CYS:HB2	1.95	0.47
1:A:1205:ASN:HA	1:A:1208:LEU:HD13	1.96	0.47
1:A:1391:VAL:O	1:A:1395:LEU:HG	2.15	0.47
1:A:1574:ASN:HD21	1:A:1577:LEU:HB2	1.80	0.47
1:A:3063:THR:O	1:A:3067:LYS:HG3	2.14	0.47
1:A:3588:TRP:CD1	1:A:3609:MET:HG3	2.49	0.47
1:A:3856:MET:HA	1:A:3859:TYR:CD2	2.49	0.47
1:A:4044:ILE:O	1:A:4048:LYS:HG3	2.13	0.47
2:B:109:ASP:O	2:B:115:ARG:NH1	2.46	0.47
2:B:134:MET:SD	2:B:135:MET:HB2	2.54	0.47
3:C:488:GLN:OE1	3:C:488:GLN:N	2.48	0.47
3:L:416:TYR:HB3	2:T:449:THR:O	2.15	0.47
5:Q:180:PHE:HA	5:Q:183:VAL:HG12	1.95	0.47
6:R:868:ASP:N	6:R:868:ASP:OD1	2.43	0.47
1:S:323:VAL:O	1:S:327:VAL:HG22	2.13	0.47
1:S:639:ALA:HA	1:S:642:PHE:HB3	1.95	0.47
1:S:722:LYS:O	1:S:726:LEU:N	2.30	0.47
1:S:1058:SER:HA	1:S:1061:LYS:HE2	1.95	0.47
1:S:1593:VAL:O	1:S:1597:LEU:HG	2.15	0.47
1:S:2185:MET:O	1:S:2189:ILE:HG12	2.15	0.47
1:S:3567:VAL:HG11	1:S:3696:ARG:HE	1.80	0.47
2:T:142:SER:HB3	2:T:145:GLU:HG3	1.95	0.47
1:A:2211:LEU:HA	1:A:2214:ARG:HH11	1.79	0.47
1:A:2233:HIS:HD2	1:A:2731:ARG:HG3	1.79	0.47
1:A:2831:ASN:O	1:A:2835:LYS:HG3	2.14	0.47
1:A:3236:PHE:HB3	1:A:3272:TRP:CZ2	2.49	0.47
2:B:46:LYS:NZ	2:B:138:GLY:HA3	2.30	0.47
6:I:675:LYS:HE3	6:I:679:GLU:OE2	2.13	0.47
3:L:118:ILE:O	3:L:122:THR:N	2.42	0.47
1:S:524:TYR:HB2	1:S:629:PHE:CZ	2.49	0.47
1:S:737:PRO:HD2	1:S:740:ILE:HD11	1.96	0.47
1:S:977:ASP:HB3	1:S:980:THR:OG1	2.15	0.47
1:S:1626:TRP:CZ2	1:S:1674:THR:HG21	2.50	0.47
1:S:1787:ARG:HB3	1:S:1830:HIS:HE1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2090:ARG:HD2	1:S:2090:ARG:HA	1.72	0.47
1:S:2881:LEU:HA	1:S:2886:GLN:HG2	1.97	0.47
1:S:3904:PHE:CE1	1:S:3937:VAL:HB	2.49	0.47
2:T:51:SER:OG	2:T:206:LYS:NZ	2.43	0.47
1:A:246:ARG:HA	1:A:249:PHE:HD2	1.80	0.47
1:A:295:GLU:O	1:A:299:LYS:NZ	2.46	0.47
1:A:725:LEU:HD21	1:A:2602:LEU:HD11	1.96	0.47
1:A:745:VAL:HA	1:A:748:TYR:HD2	1.80	0.47
1:A:1071:ASN:HB3	1:A:1074:LYS:HD3	1.97	0.47
1:A:1264:LEU:O	1:A:1268:ASN:ND2	2.47	0.47
1:A:1370:ARG:O	1:A:1374:GLN:NE2	2.42	0.47
1:A:1513:GLY:HA2	1:A:1516:GLU:CD	2.35	0.47
1:A:1948:ALA:HA	1:A:1951:VAL:HG22	1.96	0.47
1:A:2231:PHE:O	1:A:2235:LEU:HG	2.15	0.47
1:A:2443:MET:SD	1:A:2476:ILE:HG23	2.54	0.47
1:A:2897:LEU:HD21	1:A:2923:TRP:CE2	2.49	0.47
1:A:3127:THR:HA	1:A:3130:GLN:HG2	1.97	0.47
1:A:3154:GLN:HE22	1:A:3197:LEU:HD21	1.78	0.47
1:A:3986:HIS:HB2	1:A:3989:ARG:HH21	1.79	0.47
5:H:41:SER:HB2	5:H:43:TRP:CZ2	2.50	0.47
3:L:33:GLN:O	3:L:37:VAL:HG23	2.14	0.47
4:M:48:TRP:NE1	4:M:92:ASP:O	2.48	0.47
5:Q:170:GLU:HG3	6:R:847:PHE:HD1	1.79	0.47
1:S:1643:MET:HA	1:S:1646:LEU:HD12	1.96	0.47
1:S:1743:MET:O	1:S:1747:LEU:HG	2.14	0.47
1:S:1881:TYR:OH	1:S:1954:CYS:N	2.40	0.47
1:S:2486:ASP:N	1:S:2486:ASP:OD1	2.47	0.47
1:S:3614:TYR:O	1:S:3619:ASP:N	2.37	0.47
2:T:171:ASN:HB3	2:T:205:LEU:HG	1.97	0.47
2:T:191:GLY:HA2	2:T:194:ARG:NE	2.29	0.47
1:A:176:GLU:CD	1:A:223:CYS:HA	2.35	0.47
1:A:212:VAL:HG12	2:B:335:GLU:OE2	2.15	0.47
1:A:741:ILE:HA	1:A:748:TYR:CE2	2.49	0.47
1:A:1087:ARG:HA	1:A:1090:ARG:NH1	2.30	0.47
1:A:1142:HIS:HA	1:A:1145:LEU:HD13	1.96	0.47
1:A:1682:THR:O	1:A:1689:LYS:NZ	2.39	0.47
1:A:1751:GLU:OE1	1:A:1785:ILE:HG13	2.14	0.47
1:A:2481:HIS:O	1:A:2485:ARG:HG3	2.15	0.47
1:A:2503:LYS:O	1:A:2507:ILE:HG12	2.15	0.47
1:A:3049:LEU:HD22	1:A:3085:GLU:HB2	1.97	0.47
1:A:3052:LEU:HD13	1:A:3057:ALA:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3090:TYR:CE2	1:A:3098:ARG:HB3	2.50	0.47
1:A:3587:ASP:HB2	1:A:3799:ARG:NH2	2.28	0.47
2:B:250:GLU:O	2:B:250:GLU:HG2	2.15	0.47
2:B:339:ARG:NH1	2:B:341:ASP:O	2.48	0.47
2:B:340:PHE:HZ	3:C:486:ARG:HA	1.78	0.47
3:C:137:ASP:HA	3:C:166:PRO:HD3	1.97	0.47
3:C:297:LEU:HG	3:C:303:THR:HB	1.96	0.47
3:C:333:TYR:OH	3:C:394:ARG:NH2	2.45	0.47
3:C:356:PHE:CD2	3:C:422:VAL:HG11	2.50	0.47
3:C:528:ILE:HG22	3:C:532:LYS:NZ	2.29	0.47
3:C:602:VAL:HA	3:C:609:PHE:CD2	2.47	0.47
5:G:18:HIS:ND1	5:G:36:LEU:HD13	2.30	0.47
3:L:362:LEU:HB3	3:L:364:VAL:HG13	1.97	0.47
4:M:132:VAL:O	4:M:136:GLU:HG2	2.15	0.47
1:S:289:ASN:O	1:S:293:LEU:HG	2.15	0.47
1:S:530:LEU:O	1:S:534:LEU:HG	2.14	0.47
1:S:623:PHE:O	1:S:627:VAL:HG23	2.14	0.47
1:S:652:GLU:O	1:S:656:GLN:N	2.39	0.47
1:S:978:GLN:O	1:S:982:GLN:HB3	2.15	0.47
1:S:1043:GLN:O	1:S:1044:ILE:HD13	2.15	0.47
1:S:1513:GLY:O	1:S:1517:LEU:HG	2.15	0.47
1:S:1611:GLN:HG3	1:S:1613:HIS:H	1.79	0.47
1:S:1626:TRP:CD1	1:S:1627:LYS:HE3	2.49	0.47
1:S:1651:LYS:HD3	1:S:1654:GLN:HE21	1.79	0.47
1:S:2361:ILE:HG21	1:S:2389:PHE:HE2	1.80	0.47
1:S:2840:PHE:HB2	1:S:2871:LEU:HD11	1.97	0.47
1:S:3022:GLU:HB3	1:S:3034:PRO:HG3	1.97	0.47
1:S:3117:ILE:HG22	1:S:3125:ARG:HE	1.79	0.47
1:S:3143:SER:HA	1:S:3147:LYS:HG3	1.97	0.47
1:S:3176:MET:HA	1:S:3179:TRP:HB2	1.96	0.47
1:S:3606:ILE:O	1:S:3610:TYR:HB2	2.15	0.47
1:S:3682:GLU:HA	1:S:3688:SER:OG	2.14	0.47
1:S:3701:ILE:HG23	1:S:3750:PHE:HZ	1.80	0.47
1:A:849:GLU:O	1:A:853:ILE:HG13	2.14	0.47
1:A:1205:ASN:ND2	1:A:1275:THR:HA	2.30	0.47
1:A:1576:ASP:O	1:A:1580:LEU:N	2.39	0.47
1:A:1872:GLY:O	1:A:1876:ILE:HG12	2.14	0.47
1:A:1958:GLU:O	1:A:1959:LEU:HB2	2.15	0.47
1:A:3446:VAL:HG22	1:A:3450:MET:HE2	1.96	0.47
1:A:3466:PRO:HG2	1:A:4001:THR:HG22	1.97	0.47
1:A:3620:PRO:HB3	1:A:3638:LYS:NZ	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:69:SER:HB2	2:B:245:LYS:HD2	1.97	0.47
2:B:470:ARG:CZ	3:C:346:CYS:HA	2.44	0.47
3:C:89:ASP:O	3:C:92:GLU:HG2	2.15	0.47
3:C:315:ARG:NH2	3:C:320:ILE:HG13	2.30	0.47
3:C:316:TYR:N	3:C:319:ASP:O	2.43	0.47
6:I:677:ASP:O	6:I:681:ARG:HG2	2.14	0.47
4:M:11:LEU:HD22	4:M:87:LEU:HG	1.96	0.47
5:P:187:LYS:O	5:P:191:ILE:HG12	2.15	0.47
1:S:139:ARG:HA	1:S:142:ARG:HH21	1.79	0.47
1:S:1219:PHE:O	1:S:1223:THR:OG1	2.32	0.47
1:S:1428:ILE:HA	1:S:1431:LEU:HG	1.97	0.47
1:S:1689:LYS:O	1:S:1693:VAL:HG13	2.15	0.47
1:S:1727:ARG:NH2	1:S:1769:GLU:OE1	2.48	0.47
1:S:2366:LYS:HD2	1:S:2369:LYS:HE2	1.97	0.47
1:S:3005:LEU:HG	1:S:3007:GLU:H	1.79	0.47
1:S:3467:ARG:HD2	1:S:4000:ASN:ND2	2.30	0.47
2:T:491:GLU:O	2:T:495:LEU:N	2.37	0.47
1:A:539:GLN:OE1	1:A:539:GLN:N	2.45	0.47
1:A:771:ASN:HA	1:A:774:GLU:OE2	2.15	0.47
1:A:1416:GLU:HG3	1:A:1420:ARG:NH1	2.29	0.47
1:A:1648:LEU:HD12	1:A:1649:LEU:HD22	1.97	0.47
1:A:1916:ILE:HG13	1:A:1917:LYS:N	2.30	0.47
1:A:2859:GLN:HB3	1:A:2892:LEU:CD2	2.44	0.47
2:B:413:LEU:HD12	2:B:432:PHE:HB3	1.96	0.47
3:C:602:VAL:HG11	3:C:642:PHE:CE1	2.50	0.47
4:D:48:TRP:HB3	4:D:109:LEU:HB3	1.97	0.47
4:D:94:ALA:HB3	4:D:109:LEU:HB2	1.96	0.47
5:G:197:LYS:HZ3	5:H:198:LEU:HD22	1.80	0.47
6:I:865:ILE:HD12	6:I:875:PHE:CD2	2.50	0.47
3:L:493:CYS:HB3	3:L:505:LEU:HD22	1.97	0.47
1:S:414:LEU:HB2	1:S:460:ALA:HB1	1.97	0.47
1:S:449:TYR:HB3	1:S:454:GLN:HG3	1.97	0.47
1:S:939:MET:HE1	1:S:2782:ASP:N	2.30	0.47
1:S:1389:VAL:O	1:S:1392:MET:HG3	2.15	0.47
1:S:2120:ARG:HG3	1:S:2121:ASP:H	1.79	0.47
1:S:2831:ASN:O	1:S:2835:LYS:HG2	2.15	0.47
1:S:3263:HIS:HB2	1:S:3276:TRP:CZ2	2.50	0.47
1:S:3410:ILE:HD11	1:S:3456:LEU:HB2	1.97	0.47
1:S:3467:ARG:HD2	1:S:4000:ASN:HD21	1.80	0.47
1:S:3525:TYR:CE1	1:S:3705:TYR:HB3	2.50	0.47
1:S:3923:ARG:CZ	1:S:3957:GLU:HG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:GLN:HA	1:A:246:ARG:NH1	2.29	0.47
1:A:342:MET:N	1:A:342:MET:SD	2.83	0.47
1:A:729:CYS:O	1:A:733:LEU:HG	2.15	0.47
1:A:788:TYR:O	1:A:792:ILE:HG13	2.15	0.47
1:A:889:GLU:OE1	1:A:3889:ARG:NH2	2.47	0.47
1:A:1357:LYS:HG3	1:A:1411:TYR:OH	2.15	0.47
1:A:1576:ASP:HA	1:A:1579:VAL:HB	1.96	0.47
1:A:2094:MET:HA	1:A:2097:LEU:HD13	1.96	0.47
1:A:2344:LEU:HD23	1:A:2347:LYS:HZ1	1.81	0.47
1:A:2810:SER:HB2	1:A:2864:GLN:NE2	2.30	0.47
1:A:3465:PHE:HA	1:A:3468:LEU:HD12	1.96	0.47
1:A:3761:ASP:O	1:A:3765:GLU:HG2	2.15	0.47
1:A:4108:MET:HA	1:A:4112:THR:OG1	2.15	0.47
2:B:86:VAL:HG13	2:B:104:VAL:HA	1.96	0.47
2:B:484:GLN:O	2:B:488:ARG:HG2	2.15	0.47
3:C:163:PHE:CD2	3:C:208:VAL:HB	2.49	0.47
3:L:292:GLU:HG2	2:T:301:ARG:HG3	1.96	0.47
3:L:309:ASP:HA	2:T:290:ARG:NE	2.29	0.47
3:L:624:LEU:HD12	3:L:625:ASP:N	2.29	0.47
6:R:816:HIS:ND1	6:R:849:GLY:HA3	2.30	0.47
1:S:172:GLU:HA	1:S:174:VAL:HG22	1.96	0.47
1:S:567:GLU:HA	1:S:570:LYS:HE2	1.95	0.47
1:S:1622:ILE:HA	1:S:1625:HIS:HB2	1.96	0.47
1:S:1852:LYS:HE3	1:S:1918:LEU:HD22	1.96	0.47
1:S:2321:GLU:HA	1:S:2366:LYS:CG	2.44	0.47
1:S:2420:PHE:O	1:S:2424:MET:HG3	2.14	0.47
1:S:2940:ARG:NH2	1:S:3978:GLY:O	2.49	0.47
1:S:3031:TRP:O	1:S:3037:GLN:HB2	2.15	0.47
1:S:3041:LEU:HB2	1:S:3042:PRO:HD3	1.97	0.47
1:S:3971:MET:SD	1:S:3974:MET:HB3	2.55	0.47
1:S:4040:PRO:O	1:S:4044:ILE:HG23	2.14	0.47
2:T:93:ASP:HB3	2:T:101:ASN:N	2.30	0.47
2:T:418:GLU:HB2	2:T:430:PRO:HB3	1.95	0.47
1:A:380:ASP:O	1:A:384:MET:HE2	2.16	0.46
1:A:414:LEU:HB2	1:A:460:ALA:HB1	1.96	0.46
1:A:474:VAL:HA	1:A:477:ASN:HD21	1.79	0.46
1:A:2402:LEU:O	1:A:2441:LYS:NZ	2.44	0.46
1:A:3045:ILE:HD12	1:A:3085:GLU:HG3	1.97	0.46
1:A:3090:TYR:O	1:A:3094:ASP:N	2.48	0.46
1:A:3828:TYR:O	1:A:3832:PRO:HD2	2.14	0.46
1:A:3834:ALA:HB3	1:A:3835:PRO:HD3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4040:PRO:HA	1:A:4043:LYS:HD3	1.97	0.46
2:B:413:LEU:HB3	2:B:432:PHE:CD2	2.50	0.46
2:B:480:ASN:HB3	2:B:483:LEU:HD12	1.96	0.46
3:C:404:GLN:OE1	3:C:423:GLN:HG3	2.14	0.46
3:C:632:PHE:CZ	3:C:677:ILE:HG23	2.50	0.46
5:H:175:ASP:OD2	5:H:179:ARG:NH2	2.48	0.46
3:L:267:ILE:HD11	2:T:360:HIS:HD2	1.80	0.46
3:L:310:ILE:HD11	2:T:287:LYS:HB3	1.97	0.46
1:S:939:MET:O	1:S:942:LEU:HG	2.15	0.46
1:S:1415:LEU:HA	1:S:1418:HIS:HB2	1.97	0.46
1:S:2132:LYS:O	1:S:2135:ASN:ND2	2.48	0.46
1:S:2276:LEU:O	1:S:2280:VAL:HG23	2.15	0.46
1:S:2346:ALA:HA	1:S:2349:LEU:HD12	1.97	0.46
1:S:3923:ARG:HG3	1:S:4124:TRP:CD1	2.50	0.46
1:A:788:TYR:CE2	1:A:792:ILE:HD11	2.50	0.46
1:A:1407:LYS:HA	1:A:1412:LYS:HD2	1.98	0.46
1:A:1723:PRO:HG3	3:C:594:PRO:HD2	1.96	0.46
1:A:2227:LYS:O	1:A:2229:ALA:N	2.47	0.46
1:A:2351:GLN:O	1:A:2352:HIS:ND1	2.48	0.46
1:A:2384:PHE:HD2	1:A:2385:LEU:HD22	1.81	0.46
1:A:2937:ASP:OD2	1:A:3979:LEU:HD13	2.15	0.46
1:A:3516:HIS:O	1:A:3519:GLU:HB3	2.16	0.46
2:B:287:LYS:HB3	3:C:310:ILE:HD11	1.98	0.46
5:H:161:ARG:O	5:H:164:LYS:HG3	2.14	0.46
3:L:521:GLU:O	3:L:525:LYS:HG3	2.15	0.46
1:S:1711:ARG:O	1:S:1714:LEU:HB2	2.15	0.46
1:S:1718:ILE:HA	1:S:1721:HIS:ND1	2.29	0.46
1:S:2389:PHE:O	1:S:2394:LYS:HE2	2.16	0.46
1:S:3512:VAL:HG12	1:S:3554:PHE:HZ	1.80	0.46
2:T:182:LYS:HA	2:T:185:ARG:NE	2.30	0.46
2:T:468:LYS:HE2	2:T:517:ARG:HD3	1.97	0.46
1:A:528:VAL:HA	1:A:633:ILE:HD11	1.98	0.46
1:A:575:ILE:HG13	1:A:576:VAL:N	2.30	0.46
1:A:644:PRO:HD2	1:A:645:TRP:CZ3	2.50	0.46
1:A:936:SER:HB3	1:A:2773:ARG:HD2	1.97	0.46
1:A:1166:LEU:HA	1:A:1169:VAL:HB	1.97	0.46
1:A:2510:LEU:HD21	1:A:2525:TRP:CD1	2.50	0.46
1:A:2575:PRO:HA	1:A:2785:ILE:O	2.16	0.46
1:A:2724:ASP:N	1:A:2724:ASP:OD1	2.48	0.46
1:A:3369:ASP:O	1:A:3373:VAL:HG23	2.16	0.46
1:A:3531:TYR:HD2	1:A:3794:VAL:HB	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:94:LYS:HE3	2:B:104:VAL:O	2.15	0.46
3:C:40:MET:HG2	3:C:44:ARG:NH1	2.31	0.46
3:C:111:LEU:HD13	3:C:134:ILE:HB	1.96	0.46
5:G:16:ILE:HG22	5:G:36:LEU:HD11	1.96	0.46
6:I:666:VAL:HG21	6:I:689:ILE:HG23	1.97	0.46
3:L:132:ILE:O	3:L:161:LEU:HA	2.16	0.46
3:L:184:ARG:HD2	3:L:514:ASN:HB3	1.96	0.46
3:L:233:LYS:HZ1	3:L:482:ILE:HG12	1.80	0.46
3:L:458:ILE:O	3:L:462:SER:N	2.48	0.46
3:L:485:PRO:HB2	3:L:486:ARG:NH2	2.30	0.46
3:L:528:ILE:H	3:L:528:ILE:HD12	1.81	0.46
4:M:201:PHE:HB2	2:T:517:ARG:NH1	2.30	0.46
1:S:359:LEU:O	1:S:363:ILE:HG13	2.15	0.46
1:S:851:ILE:HD12	1:S:854:ARG:HH22	1.79	0.46
1:S:1013:ILE:HG13	1:S:1014:LEU:N	2.31	0.46
1:S:2042:GLN:O	1:S:2045:PHE:HB3	2.15	0.46
1:S:2346:ALA:O	1:S:2349:LEU:HB2	2.15	0.46
1:S:2462:VAL:HA	1:S:2473:MET:HE3	1.97	0.46
1:S:3130:GLN:HB3	1:S:3178:ILE:HG21	1.96	0.46
1:S:3324:ARG:HD2	1:S:3392:ALA:HB2	1.97	0.46
1:S:3842:TRP:HB3	1:S:3855:TYR:CD1	2.50	0.46
1:S:3865:THR:O	1:S:3869:THR:OG1	2.27	0.46
2:T:346:MET:HB2	2:T:399:ARG:HB3	1.98	0.46
1:A:269:SER:O	1:A:273:ARG:NE	2.42	0.46
1:A:1611:GLN:HG3	1:A:1613:HIS:ND1	2.30	0.46
1:A:1670:GLU:O	1:A:1674:THR:N	2.35	0.46
1:A:2335:ASN:OD1	1:A:2336:ILE:N	2.48	0.46
1:A:2464:HIS:O	1:A:2470:ARG:NE	2.49	0.46
1:A:3114:TYR:HA	1:A:3117:ILE:CG1	2.44	0.46
1:A:3151:LEU:HA	1:A:3197:LEU:HD22	1.97	0.46
1:A:3666:LEU:HA	1:A:3669:LYS:HG2	1.98	0.46
1:A:3789:ARG:H	1:A:3789:ARG:HD3	1.81	0.46
2:B:193:LEU:HB2	2:B:198:ILE:HB	1.97	0.46
2:B:462:MET:HE2	2:B:465:ILE:HD12	1.98	0.46
2:B:468:LYS:HE3	2:B:517:ARG:O	2.15	0.46
3:C:246:HIS:CD2	3:C:248:PRO:HD3	2.51	0.46
5:G:144:LEU:O	5:G:147:GLU:HG2	2.15	0.46
5:H:166:VAL:O	5:H:170:GLU:HG2	2.15	0.46
3:L:160:SER:C	3:L:161:LEU:HD12	2.35	0.46
3:L:269:GLN:HA	2:T:442:ASP:HB3	1.97	0.46
1:S:127:ALA:O	1:S:131:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:384:MET:O	1:S:388:LEU:HG	2.15	0.46
1:S:668:LYS:HZ3	1:S:728:SER:HB3	1.79	0.46
1:S:793:LEU:HD21	1:S:866:ILE:HG22	1.96	0.46
1:S:1215:GLU:O	1:S:1219:PHE:HB2	2.15	0.46
1:S:1358:LEU:HA	1:S:1361:LYS:HD3	1.97	0.46
1:S:2333:ARG:CZ	1:S:2333:ARG:HA	2.46	0.46
1:S:2418:LYS:HD3	1:S:2418:LYS:HA	1.75	0.46
1:S:3263:HIS:HB2	1:S:3276:TRP:CH2	2.50	0.46
1:A:153:PHE:HZ	1:A:192:ASN:HB2	1.81	0.46
1:A:738:HIS:HB2	1:A:780:ILE:HD11	1.97	0.46
1:A:1072:ALA:HB1	1:A:1121:LEU:HD21	1.98	0.46
1:A:1081:ALA:O	1:A:1085:ILE:HG23	2.15	0.46
1:A:1754:GLN:HG2	1:A:1785:ILE:HG23	1.97	0.46
1:A:2365:ASN:HD21	1:A:2399:GLU:HB2	1.78	0.46
1:A:3078:LEU:HA	1:A:3082:TYR:HD2	1.80	0.46
1:A:3323:PHE:O	1:A:3327:ASN:ND2	2.48	0.46
2:B:62:MET:O	2:B:65:GLN:NE2	2.48	0.46
4:D:80:CYS:O	4:D:83:GLN:NE2	2.48	0.46
5:H:182:LEU:O	5:H:186:GLU:HG3	2.15	0.46
1:S:265:TYR:HB3	1:S:308:LEU:HD21	1.97	0.46
1:S:764:PRO:O	1:S:768:VAL:HG22	2.16	0.46
1:S:793:LEU:HD11	1:S:867:ASN:HA	1.98	0.46
1:S:888:ARG:NH1	1:S:889:GLU:OE2	2.49	0.46
1:S:1560:TYR:CZ	1:S:1596:VAL:HG12	2.50	0.46
1:S:1758:LEU:HA	1:S:1761:LEU:HD12	1.98	0.46
1:S:2223:VAL:HG22	1:S:2231:PHE:CE1	2.51	0.46
1:S:2891:ARG:HH22	1:S:3895:GLU:HA	1.80	0.46
1:S:3165:THR:HG21	1:S:3241:LYS:HD3	1.96	0.46
1:S:3424:LEU:O	1:S:3428:GLU:N	2.38	0.46
1:S:3638:LYS:O	1:S:3642:LYS:HG2	2.15	0.46
2:T:170:THR:C	2:T:205:LEU:HD23	2.36	0.46
2:T:412:ALA:N	2:T:435:VAL:O	2.33	0.46
2:T:514:MET:O	2:T:518:LEU:HG	2.15	0.46
1:A:93:LEU:HB3	1:A:136:GLN:NE2	2.30	0.46
1:A:1018:VAL:HG12	1:A:1074:LYS:HG3	1.97	0.46
1:A:1220:LEU:HD21	1:A:1287:GLN:HB2	1.98	0.46
1:A:3994:ASP:O	1:A:3997:LEU:N	2.44	0.46
3:C:165:LEU:HD13	3:C:167:PHE:CZ	2.51	0.46
5:G:155:TRP:HA	5:G:158:VAL:HG12	1.96	0.46
3:L:235:CYS:C	3:L:237:PHE:H	2.19	0.46
5:P:184:LEU:HD23	5:P:187:LYS:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1456:LYS:HD2	1:S:1516:GLU:HG3	1.97	0.46
1:S:1626:TRP:HZ2	1:S:1674:THR:HG21	1.81	0.46
1:S:1632:TRP:CD1	1:S:1641:THR:CG2	2.99	0.46
1:S:1803:GLU:HA	1:S:1806:ARG:HH21	1.80	0.46
1:S:1875:LYS:HZ2	1:S:1943:ALA:HB2	1.81	0.46
1:S:2161:ALA:HA	1:S:2164:TRP:HB2	1.96	0.46
1:S:2355:THR:OG1	1:S:2356:MET:N	2.49	0.46
1:S:2464:HIS:HD2	1:S:2470:ARG:HG2	1.81	0.46
1:S:2587:GLN:N	1:S:2777:HIS:O	2.41	0.46
1:S:3185:ASN:OD1	1:S:3189:PHE:CZ	2.68	0.46
1:S:3266:SER:HB2	1:S:3273:LEU:HA	1.98	0.46
1:S:3753:LYS:N	1:S:3801:GLY:O	2.32	0.46
1:S:3877:LYS:HE3	1:S:4127:TRP:CE2	2.51	0.46
2:T:61:ASP:O	2:T:65:GLN:OE1	2.34	0.46
2:T:352:PRO:HA	2:T:393:GLU:O	2.16	0.46
1:A:547:ASP:OD1	1:A:547:ASP:N	2.49	0.46
1:A:1323:SER:HA	1:A:1326:GLU:HA	1.97	0.46
1:A:1663:THR:HG22	1:A:1664:SER:N	2.29	0.46
1:A:2455:LEU:HD21	1:A:2498:ILE:HG23	1.97	0.46
1:A:2479:TRP:O	1:A:2483:ASN:HB2	2.16	0.46
1:A:2732:PHE:HE1	1:A:2734:ARG:HH11	1.64	0.46
1:A:2981:TRP:CD1	1:A:2985:GLU:HG2	2.51	0.46
1:A:3531:TYR:CZ	1:A:3796:MET:HG3	2.51	0.46
2:B:49:PHE:HE2	2:B:137:HIS:HB2	1.81	0.46
2:B:290:ARG:HA	6:I:692:ASN:OD1	2.16	0.46
2:B:418:GLU:HG3	2:B:426:GLN:HG2	1.98	0.46
3:C:43:GLN:HE21	3:C:495:LEU:HB2	1.79	0.46
3:C:44:ARG:HB3	3:C:237:PHE:CE2	2.51	0.46
3:C:91:LEU:O	3:C:95:GLU:HG3	2.16	0.46
3:C:521:GLU:O	3:C:525:LYS:HG3	2.16	0.46
3:L:276:TRP:HB3	2:T:318:ARG:HB3	1.96	0.46
5:Q:193:SER:O	5:Q:197:LYS:HG2	2.16	0.46
1:S:54:GLN:HA	1:S:57:LEU:HD12	1.98	0.46
1:S:244:THR:O	1:S:248:ILE:HG12	2.16	0.46
1:S:2321:GLU:O	1:S:2325:LEU:HG	2.15	0.46
1:S:2365:ASN:OD1	1:S:2369:LYS:NZ	2.36	0.46
1:S:3364:GLY:HA3	1:S:3373:VAL:HA	1.97	0.46
1:S:3733:ARG:O	1:S:3754:GLY:N	2.49	0.46
1:S:3833:ARG:HH21	1:S:4125:GLU:HG3	1.81	0.46
1:S:4121:TRP:HB3	1:S:4124:TRP:HB2	1.98	0.46
2:T:39:ILE:HB	2:T:166:ILE:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:304:ASN:ND2	2:T:309:GLY:O	2.42	0.46
2:T:387:ILE:HA	2:T:390:LEU:HD12	1.98	0.46
1:A:103:TYR:HB3	1:A:107:ILE:HG23	1.98	0.46
1:A:751:ALA:O	1:A:755:ALA:N	2.29	0.46
1:A:1208:LEU:HD22	1:A:1275:THR:OG1	2.16	0.46
1:A:1220:LEU:HD11	1:A:1287:GLN:HB2	1.98	0.46
1:A:1611:GLN:HE21	1:A:1613:HIS:HB2	1.80	0.46
1:A:2229:ALA:O	1:A:2233:HIS:N	2.44	0.46
1:A:2445:LYS:HD2	1:A:2445:LYS:H	1.80	0.46
1:A:2723:THR:O	1:A:2727:ARG:HG2	2.16	0.46
1:A:2855:VAL:HA	1:A:2858:ILE:HD12	1.98	0.46
1:A:3113:ASN:HB2	1:A:3128:LYS:NZ	2.31	0.46
2:B:459:VAL:O	2:B:463:LYS:HG3	2.16	0.46
3:C:111:LEU:O	3:C:115:MET:HG2	2.16	0.46
5:H:183:VAL:O	5:H:187:LYS:HG2	2.16	0.46
3:L:528:ILE:O	3:L:531:SER:OG	2.24	0.46
1:S:648:SER:O	1:S:651:TYR:HB3	2.16	0.46
1:S:799:TYR:HB3	1:S:852:ARG:HB3	1.97	0.46
1:S:966:PHE:HB2	1:S:1011:GLU:OE1	2.16	0.46
1:S:2133:LEU:HD22	1:S:2146:LEU:HB3	1.98	0.46
1:S:2154:GLU:HA	1:S:2157:PHE:CZ	2.51	0.46
1:S:2973:ASP:O	1:S:2977:ASN:HB2	2.15	0.46
1:A:983:LEU:HD12	1:A:984:TYR:HD1	1.80	0.46
1:A:1133:HIS:O	1:A:1137:ILE:HG12	2.15	0.46
1:A:1723:PRO:HB2	1:A:1724:MET:SD	2.56	0.46
1:A:2750:GLU:HA	1:A:2753:ARG:NE	2.31	0.46
1:A:2943:PHE:HD1	1:A:2947:ILE:HB	1.81	0.46
1:A:3532:PRO:O	1:A:3536:SER:HB3	2.16	0.46
1:A:3718:ARG:O	1:A:3742:GLY:HA2	2.16	0.46
2:B:276:LEU:HD12	3:C:432:GLN:HA	1.98	0.46
3:C:406:GLY:HA2	3:C:424:LEU:HG	1.98	0.46
3:L:395:TYR:HB3	3:L:404:GLN:HG2	1.96	0.46
5:P:194:LEU:HA	5:P:197:LYS:HG2	1.98	0.46
6:R:816:HIS:H	6:R:851:LYS:N	2.13	0.46
1:S:142:ARG:HB2	1:S:143:LEU:HD12	1.96	0.46
1:S:738:HIS:HB2	1:S:780:ILE:HD11	1.97	0.46
1:S:767:GLU:HA	1:S:854:ARG:NH2	2.31	0.46
1:S:781:ASP:OD2	1:S:783:HIS:ND1	2.48	0.46
1:S:1039:TRP:O	1:S:1043:GLN:HG3	2.16	0.46
1:S:1166:LEU:HD13	1:S:1198:LEU:HD13	1.97	0.46
1:S:2303:LEU:HB3	1:S:2323:LEU:HD21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3090:TYR:HB2	1:S:3099:ALA:HB2	1.98	0.46
1:S:3410:ILE:HG23	1:S:3453:ALA:HB1	1.98	0.46
1:S:3466:PRO:O	1:S:3470:GLN:HG2	2.16	0.46
1:S:3565:GLY:O	1:S:3569:GLN:HG2	2.16	0.46
1:S:3923:ARG:HG3	1:S:4124:TRP:HD1	1.81	0.46
2:T:94:LYS:HE3	2:T:103:TYR:CE1	2.51	0.46
1:A:114:VAL:O	1:A:119:ARG:HB2	2.15	0.46
1:A:167:PRO:HA	1:A:171:LEU:HD12	1.98	0.46
1:A:770:LEU:HD11	1:A:858:MET:HG2	1.97	0.46
1:A:953:GLN:NE2	1:A:1003:SER:O	2.38	0.46
1:A:1294:VAL:HG13	1:A:1367:HIS:NE2	2.31	0.46
1:A:1598:ASN:HA	1:A:1601:LEU:HD12	1.97	0.46
1:A:1671:VAL:HA	1:A:1674:THR:HB	1.97	0.46
1:A:1885:PRO:HB3	1:A:1955:VAL:HG21	1.98	0.46
1:A:2169:LEU:O	1:A:2173:ALA:N	2.48	0.46
1:A:2553:HIS:O	1:A:2557:LEU:HG	2.15	0.46
1:A:2756:GLU:O	1:A:2760:GLU:OE1	2.34	0.46
1:A:3031:TRP:HA	1:A:3037:GLN:CD	2.37	0.46
1:A:3145:ILE:HB	1:A:3147:LYS:HZ2	1.81	0.46
1:A:3166:ASN:OD1	1:A:3186:ARG:NH1	2.49	0.46
1:A:4082:ARG:HG3	1:A:4089:ILE:HG22	1.98	0.46
2:B:522:VAL:HG13	3:C:257:LEU:HG	1.96	0.46
3:C:335:SER:OG	3:C:399:LYS:O	2.29	0.46
4:D:183:GLU:OE2	4:D:190:PHE:N	2.34	0.46
6:R:710:LYS:O	6:R:714:LEU:HG	2.16	0.46
1:S:180:LEU:O	1:S:185:HIS:NE2	2.47	0.46
1:S:200:PHE:CG	1:S:224:LEU:HD22	2.51	0.46
1:S:327:VAL:HB	1:S:333:MET:SD	2.56	0.46
1:S:328:ALA:HB2	1:S:372:PRO:HG3	1.97	0.46
1:S:360:SER:O	1:S:364:ARG:NE	2.40	0.46
1:S:374:LYS:NZ	1:S:424:LEU:HD12	2.31	0.46
1:S:524:TYR:CD1	1:S:629:PHE:HZ	2.34	0.46
1:S:749:VAL:O	1:S:753:GLN:HG2	2.16	0.46
1:S:1019:ASP:OD1	1:S:1026:ARG:NE	2.49	0.46
1:S:1418:HIS:HA	1:S:1421:GLU:HB2	1.98	0.46
1:S:1536:ALA:O	1:S:1555:HIS:ND1	2.44	0.46
1:S:3836:PRO:O	1:S:3873:LYS:HD2	2.16	0.46
2:T:191:GLY:HA2	2:T:194:ARG:HE	1.80	0.46
1:A:901:MET:N	1:A:901:MET:SD	2.89	0.45
1:A:1173:LEU:HD21	1:A:1191:PHE:CG	2.50	0.45
1:A:1653:LEU:HG	1:A:1695:LEU:HD11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2260:PHE:HE1	1:A:2302:ALA:HB3	1.81	0.45
1:A:2750:GLU:O	1:A:2753:ARG:HG2	2.16	0.45
1:A:2785:ILE:HG22	1:A:2789:SER:OG	2.16	0.45
1:A:3090:TYR:CB	1:A:3095:ASP:HB2	2.46	0.45
1:A:3619:ASP:OD1	1:A:3619:ASP:N	2.49	0.45
1:A:3856:MET:HG3	1:A:3860:LYS:HZ3	1.80	0.45
1:A:3867:THR:HG21	1:A:4085:LYS:NZ	2.31	0.45
1:A:4009:PRO:HA	1:A:4038:TRP:HH2	1.81	0.45
3:C:297:LEU:N	3:C:303:THR:O	2.49	0.45
3:C:689:GLU:HA	3:C:695:SER:HB3	1.98	0.45
5:G:150:ARG:HH21	6:I:837:ARG:HD2	1.80	0.45
1:S:888:ARG:HG3	1:S:889:GLU:OE2	2.16	0.45
1:S:1844:VAL:O	1:S:1848:ILE:HG13	2.16	0.45
1:S:2754:GLU:HA	1:S:2757:ILE:HD12	1.98	0.45
1:S:2806:LYS:HB2	1:S:2857:CYS:HB2	1.98	0.45
1:S:3508:LYS:HE2	1:S:3510:GLN:HE21	1.80	0.45
2:T:67:ILE:HA	2:T:70:VAL:HG22	1.98	0.45
1:A:195:ASN:HA	1:A:198:ARG:NE	2.31	0.45
1:A:447:PRO:HB3	1:A:523:THR:HG22	1.99	0.45
1:A:475:LEU:O	1:A:479:ILE:HG12	2.15	0.45
1:A:717:LYS:NZ	1:A:1120:SER:O	2.41	0.45
1:A:886:TRP:CZ3	1:A:911:LEU:HB2	2.51	0.45
1:A:2531:LEU:HB3	1:A:2538:ARG:NE	2.31	0.45
1:A:3534:ILE:O	1:A:3537:SER:N	2.48	0.45
1:A:3931:ALA:N	1:A:3936:GLY:O	2.39	0.45
2:B:115:ARG:O	2:B:119:LEU:HG	2.17	0.45
2:B:201:ASP:OD1	2:B:202:LEU:N	2.49	0.45
2:B:240:GLU:HA	2:B:243:LEU:HG	1.97	0.45
2:B:400:TYR:CE2	2:B:402:PRO:HG3	2.51	0.45
2:B:473:TYR:H	3:C:350:GLN:HE22	1.63	0.45
3:C:599:ARG:HH21	3:C:641:ALA:HB3	1.79	0.45
4:M:73:THR:OG1	4:M:74:PRO:HD3	2.16	0.45
1:S:67:VAL:HA	1:S:71:LYS:HD3	1.98	0.45
1:S:3114:TYR:CE2	1:S:3125:ARG:HD2	2.52	0.45
1:S:3829:LEU:HD13	1:S:3833:ARG:HG3	1.98	0.45
1:A:264:ARG:HG2	1:A:305:ASN:ND2	2.31	0.45
1:A:337:LYS:HG2	1:A:369:PHE:CZ	2.51	0.45
1:A:571:SER:O	1:A:575:ILE:HG12	2.17	0.45
1:A:1238:GLN:O	1:A:1310:GLU:HA	2.16	0.45
1:A:1303:MET:N	1:A:1303:MET:SD	2.90	0.45
1:A:1539:SER:HA	1:A:1552:HIS:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1696:LEU:HA	1:A:1699:PHE:HD2	1.81	0.45
1:A:2269:ASP:N	1:A:2269:ASP:OD1	2.47	0.45
1:A:2835:LYS:O	1:A:2838:GLN:HG2	2.17	0.45
1:A:2876:VAL:HG11	1:A:2892:LEU:HD11	1.98	0.45
1:A:3184:THR:HA	1:A:3187:CYS:SG	2.57	0.45
1:A:3923:ARG:HH11	1:A:4124:TRP:HB2	1.81	0.45
2:B:325:ARG:HH22	3:C:501:PRO:HB3	1.80	0.45
3:C:184:ARG:NE	3:C:187:GLY:HA3	2.31	0.45
3:C:361:VAL:HG13	3:C:420:VAL:HG13	1.97	0.45
3:C:438:LEU:HA	3:C:441:SER:HB3	1.97	0.45
4:M:180:CYS:HB3	4:M:183:GLU:HB2	1.97	0.45
1:S:637:LYS:HA	1:S:637:LYS:HD2	1.71	0.45
1:S:1949:ILE:O	1:S:1952:ILE:HG22	2.16	0.45
1:S:2416:LYS:HA	1:S:2420:PHE:HD1	1.80	0.45
1:S:2429:ASP:OD1	1:S:2430:GLU:N	2.49	0.45
1:S:2436:LEU:O	1:S:2436:LEU:HD23	2.16	0.45
1:S:2588:GLU:HA	1:S:2776:ARG:HA	1.98	0.45
1:S:3976:GLU:HG2	1:S:3980:MET:HG3	1.99	0.45
1:A:40:GLN:HA	1:A:43:VAL:HG22	1.98	0.45
1:A:110:THR:O	1:A:114:VAL:HG23	2.17	0.45
1:A:801:LYS:HE2	1:A:3125:ARG:NH2	2.31	0.45
1:A:959:TYR:HB3	1:A:960:GLN:NE2	2.31	0.45
1:A:967:PRO:C	1:A:971:ARG:HE	2.18	0.45
1:A:1039:TRP:HA	1:A:1042:LYS:HD3	1.99	0.45
1:A:1077:GLY:HA2	1:A:1080:LEU:HG	1.98	0.45
1:A:1458:LEU:HG	1:A:1463:LEU:O	2.17	0.45
1:A:3031:TRP:H	1:A:3064:PHE:HE2	1.63	0.45
1:A:3577:GLN:HE21	1:A:3683:CYS:HB3	1.81	0.45
1:A:3766:GLN:O	1:A:3770:VAL:HG23	2.16	0.45
2:B:486:HIS:HA	2:B:489:ASN:HD22	1.81	0.45
2:B:488:ARG:HD2	2:B:501:GLU:HB3	1.98	0.45
3:C:251:LEU:O	3:C:258:SER:HA	2.17	0.45
3:C:604:GLN:HE21	3:C:605:LYS:NZ	2.14	0.45
3:C:642:PHE:HD2	3:C:655:PHE:CE2	2.35	0.45
4:D:77:ARG:O	4:D:81:GLU:HG2	2.16	0.45
6:I:879:ARG:NH2	6:I:885:LYS:HB2	2.31	0.45
3:L:163:PHE:HB2	3:L:212:MET:HE1	1.98	0.45
3:L:335:SER:HB3	3:L:403:PRO:HD3	1.98	0.45
3:L:457:LEU:HD22	3:L:533:ILE:HG13	1.98	0.45
3:L:465:LYS:HZ3	3:L:468:GLU:H	1.64	0.45
6:R:692:ASN:HB2	2:T:290:ARG:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:699:CYS:SG	6:R:719:ASP:HB2	2.57	0.45
1:S:240:GLU:HG3	1:S:243:GLN:HG2	1.98	0.45
1:S:953:GLN:HG2	1:S:1003:SER:HB2	1.98	0.45
1:S:1220:LEU:O	1:S:1224:PHE:HB2	2.16	0.45
1:S:1637:SER:O	1:S:1642:LYS:HE3	2.16	0.45
1:S:1708:GLU:HA	1:S:1711:ARG:NH1	2.31	0.45
1:S:1763:THR:O	1:S:1767:CYS:N	2.41	0.45
1:S:2102:LYS:O	1:S:2106:ARG:NH1	2.50	0.45
1:S:3100:LYS:NZ	1:S:3104:GLN:HB3	2.31	0.45
1:S:3113:ASN:O	1:S:3117:ILE:N	2.48	0.45
1:S:3257:LYS:HA	1:S:3257:LYS:HD2	1.70	0.45
1:S:3276:TRP:HZ3	1:S:3306:LEU:HD22	1.81	0.45
1:S:3817:LEU:HG	1:S:3825:LYS:HE3	1.98	0.45
1:S:3915:HIS:HE1	1:S:3961:PHE:HA	1.81	0.45
2:T:518:LEU:HB3	2:T:522:VAL:HG23	1.99	0.45
1:A:343:GLU:HG2	1:A:344:GLN:N	2.32	0.45
1:A:2164:TRP:O	1:A:2167:PRO:HD2	2.16	0.45
1:A:2253:TYR:H	1:A:2256:ILE:HD12	1.81	0.45
1:A:2827:SER:HA	1:A:2830:ASN:ND2	2.32	0.45
1:A:3493:TRP:H	1:A:3709:GLY:HA2	1.81	0.45
3:C:295:TYR:O	3:C:305:VAL:N	2.49	0.45
3:C:315:ARG:HA	3:C:320:ILE:HG12	1.97	0.45
3:C:656:ASN:CB	3:C:688:LYS:HA	2.46	0.45
4:D:132:VAL:HG11	4:M:8:LEU:HD21	1.99	0.45
3:L:280:ASP:HB2	3:L:288:ASP:HB3	1.98	0.45
3:L:677:ILE:HA	3:L:680:GLN:CD	2.37	0.45
4:M:38:ASN:HB3	4:M:40:TYR:CE1	2.52	0.45
1:S:535:LEU:HB3	1:S:637:LYS:HZ3	1.82	0.45
1:S:962:TYR:HB3	1:S:966:PHE:CE2	2.51	0.45
1:S:1071:ASN:HB3	1:S:1074:LYS:CD	2.44	0.45
1:S:1691:GLN:N	1:S:1745:LYS:HZ2	2.14	0.45
1:S:1798:LEU:HD21	1:S:1827:LEU:HB3	1.99	0.45
1:S:2328:ARG:HA	1:S:2333:ARG:HD2	1.97	0.45
1:A:194:GLU:N	1:A:194:GLU:OE1	2.49	0.45
1:A:421:LEU:HA	1:A:424:LEU:HB3	1.99	0.45
1:A:934:LEU:HA	1:A:937:MET:HG2	1.98	0.45
1:A:1045:THR:O	1:A:1049:GLN:HG3	2.16	0.45
1:A:1184:ARG:HH21	1:A:1262:ALA:HA	1.82	0.45
1:A:1475:LEU:H	1:A:1475:LEU:HD12	1.81	0.45
1:A:1565:GLU:HG2	1:A:1566:THR:N	2.32	0.45
1:A:1645:VAL:HA	1:A:1648:LEU:HG	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1783:ARG:NH1	1:A:1830:HIS:HB2	2.31	0.45
1:A:1870:LYS:HA	1:A:1873:TYR:CD2	2.52	0.45
1:A:2339:GLU:HA	1:A:2342:CYS:SG	2.56	0.45
1:A:2454:LEU:O	1:A:2458:VAL:HG23	2.17	0.45
1:A:3448:GLU:OE2	1:A:3482:LEU:HB3	2.16	0.45
1:A:3547:THR:HA	1:A:3550:LYS:NZ	2.31	0.45
1:A:3557:ARG:O	1:A:3561:LYS:HG2	2.17	0.45
1:A:3964:THR:O	1:A:3968:ILE:HG12	2.17	0.45
2:B:299:LYS:N	3:C:294:VAL:O	2.41	0.45
2:B:352:PRO:HA	2:B:394:VAL:HA	1.98	0.45
2:B:366:LEU:HD23	2:B:436:PHE:HE2	1.82	0.45
2:B:487:PHE:HB2	2:B:488:ARG:HH11	1.81	0.45
3:C:186:GLY:O	3:C:515:MET:N	2.49	0.45
3:C:250:ARG:HG2	3:C:260:ARG:HG3	1.99	0.45
1:S:133:LYS:O	1:S:136:GLN:HG2	2.17	0.45
1:S:186:PRO:HB2	1:S:188:GLU:HG2	1.98	0.45
1:S:935:HIS:HE1	1:S:2773:ARG:NH2	2.15	0.45
1:S:1238:GLN:HB2	1:S:1239:PRO:HD3	1.99	0.45
1:S:1456:LYS:NZ	1:S:1516:GLU:O	2.49	0.45
1:S:2233:HIS:CE1	1:S:2728:LEU:HA	2.52	0.45
1:S:2535:THR:HG22	1:S:2565:MET:HE3	1.99	0.45
1:S:3877:LYS:HE3	1:S:4127:TRP:CD2	2.52	0.45
1:S:3886:ALA:O	1:S:3890:MET:HG2	2.16	0.45
1:S:4041:ARG:HG3	1:S:4044:ILE:HD11	1.98	0.45
2:T:58:THR:H	2:T:125:GLN:NE2	2.13	0.45
1:A:384:MET:O	1:A:388:LEU:HG	2.17	0.45
1:A:793:LEU:HD21	1:A:866:ILE:HG12	1.99	0.45
1:A:1185:HIS:HA	1:A:1188:ILE:HG12	1.98	0.45
1:A:1572:LEU:HD11	1:A:1603:GLN:HG3	1.99	0.45
1:A:1576:ASP:HB2	1:A:1625:HIS:HE1	1.81	0.45
1:A:2281:MET:HE3	1:A:2329:TYR:HB2	1.98	0.45
1:A:3159:ARG:HD3	1:A:3159:ARG:N	2.32	0.45
1:A:3247:ARG:HE	1:A:3282:ARG:HH12	1.63	0.45
1:A:3971:MET:CE	1:A:3974:MET:HB2	2.47	0.45
2:B:211:PHE:CE1	2:B:232:HIS:HB2	2.52	0.45
2:B:362:LEU:HG	2:B:363:ARG:H	1.81	0.45
6:I:663:GLU:HA	6:I:688:TYR:HB3	1.98	0.45
6:I:816:HIS:O	6:I:851:LYS:N	2.50	0.45
6:R:729:CYS:SG	6:R:736:VAL:HG22	2.57	0.45
6:R:810:LEU:CD2	6:R:848:HIS:HD2	2.23	0.45
1:S:179:GLY:HA3	1:S:230:LEU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:440:VAL:HA	1:S:443:ILE:HD13	1.97	0.45
1:S:905:ILE:HD12	1:S:2812:LEU:HA	1.98	0.45
1:S:1936:ARG:HA	1:S:1939:LEU:HD12	1.98	0.45
1:S:2385:LEU:HD13	1:S:2389:PHE:CE2	2.52	0.45
1:S:2423:VAL:HA	1:S:2426:HIS:HB3	1.99	0.45
1:S:2748:VAL:HA	1:S:2751:GLN:HG2	1.98	0.45
1:S:3263:HIS:HA	1:S:3266:SER:HB3	1.98	0.45
1:S:3480:LEU:HA	1:S:3483:MET:HB2	1.99	0.45
1:S:3999:THR:HA	1:S:4002:MET:HG3	1.99	0.45
2:T:58:THR:H	2:T:125:GLN:HE22	1.62	0.45
1:A:1000:LYS:HA	1:A:1000:LYS:HE3	1.99	0.45
1:A:1538:LEU:O	1:A:1552:HIS:N	2.50	0.45
1:A:1756:PRO:O	1:A:1759:LEU:N	2.50	0.45
1:A:2507:ILE:HD11	1:A:2545:LEU:HD23	1.98	0.45
1:A:2522:ARG:HA	1:A:2561:PHE:CZ	2.52	0.45
1:A:2924:VAL:O	1:A:2928:LYS:HG3	2.16	0.45
1:A:3164:TRP:HA	1:A:3168:TYR:CZ	2.52	0.45
1:A:3189:PHE:O	1:A:3193:ILE:HG12	2.17	0.45
1:A:3390:GLN:HA	1:A:3393:GLU:CD	2.37	0.45
1:A:3871:PHE:CG	1:A:4117:LEU:HA	2.52	0.45
5:Q:51:GLU:HA	5:Q:54:GLN:HE22	1.81	0.45
5:Q:187:LYS:O	5:Q:191:ILE:HG13	2.17	0.45
1:S:945:ALA:HB1	1:S:957:PRO:HG3	1.99	0.45
1:S:1756:PRO:O	1:S:1760:GLU:HG2	2.16	0.45
1:S:2342:CYS:O	1:S:2345:VAL:HG22	2.16	0.45
2:T:147:LEU:HD22	2:T:193:LEU:HD12	1.99	0.45
2:T:288:LEU:HA	2:T:295:PRO:HA	1.99	0.45
1:A:149:ILE:HG13	1:A:150:GLY:N	2.31	0.45
1:A:360:SER:O	1:A:363:ILE:HB	2.17	0.45
1:A:1153:LEU:HD13	1:A:1160:SER:HA	1.98	0.45
1:A:1452:VAL:HA	1:A:1517:LEU:HD11	1.99	0.45
1:A:1743:MET:HA	1:A:1746:PHE:CD2	2.52	0.45
1:A:2380:ASN:N	1:A:2380:ASN:OD1	2.50	0.45
1:A:2395:THR:O	1:A:2399:GLU:HG3	2.16	0.45
1:A:2776:ARG:HH22	1:A:2785:ILE:HG13	1.82	0.45
1:A:2925:GLU:HA	1:A:2928:LYS:HD2	1.98	0.45
1:A:2930:TYR:HB3	1:A:2935:GLU:HB3	1.98	0.45
1:A:2973:ASP:O	1:A:2976:LEU:HG	2.17	0.45
1:A:3151:LEU:HD23	1:A:3151:LEU:H	1.81	0.45
1:A:3593:ARG:HD3	1:A:3661:ASP:HB2	1.99	0.45
1:A:3628:PHE:HE1	1:A:3671:ASN:HB3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:271:VAL:HG12	2:B:370:PRO:HA	1.99	0.45
4:D:23:TYR:CD2	4:D:124:LEU:HD11	2.52	0.45
5:H:146:LYS:O	5:H:149:GLU:HG3	2.16	0.45
3:L:297:LEU:HB2	3:L:303:THR:HB	1.98	0.45
5:P:187:LYS:HB3	5:Q:187:LYS:NZ	2.32	0.45
1:S:565:TYR:O	1:S:569:VAL:HG23	2.17	0.45
1:S:667:TYR:HB2	1:S:728:SER:HB2	1.98	0.45
1:S:770:LEU:HD22	1:S:858:MET:HE3	1.98	0.45
1:S:1017:ILE:HG23	1:S:1077:GLY:HA3	1.99	0.45
1:S:1323:SER:N	1:S:1328:GLU:OE2	2.49	0.45
1:S:2825:THR:O	1:S:2829:LYS:HG3	2.17	0.45
1:S:3639:GLU:HG3	1:S:3643:HIS:CE1	2.52	0.45
1:S:3920:ILE:HG21	1:S:3942:PHE:HA	1.99	0.45
2:T:166:ILE:O	2:T:200:LEU:HD12	2.17	0.45
1:A:179:GLY:HA3	1:A:227:LEU:HA	1.99	0.45
1:A:523:THR:HG23	1:A:526:ASP:OD1	2.16	0.45
1:A:565:TYR:O	1:A:569:VAL:HG23	2.17	0.45
1:A:727:ALA:O	1:A:731:THR:OG1	2.23	0.45
1:A:745:VAL:HA	1:A:748:TYR:CD2	2.51	0.45
1:A:1038:LYS:HZ2	1:A:1039:TRP:HE3	1.63	0.45
1:A:1452:VAL:HG22	1:A:1517:LEU:HD11	1.98	0.45
1:A:2980:ASP:N	1:A:2980:ASP:OD1	2.50	0.45
1:A:4073:ALA:HB1	1:A:4076:ASP:HB3	1.99	0.45
3:C:212:MET:O	3:C:216:GLU:N	2.46	0.45
3:C:323:PHE:CE2	3:C:328:GLU:HB3	2.37	0.45
4:D:120:ARG:O	4:D:124:LEU:HD23	2.16	0.45
5:G:173:GLU:O	5:G:176:LEU:HG	2.16	0.45
5:G:178:LYS:O	5:G:182:LEU:HG	2.16	0.45
5:G:188:LYS:NZ	6:I:769:THR:HG23	2.31	0.45
3:L:18:PHE:HA	3:L:21:SER:HB2	1.98	0.45
3:L:137:ASP:OD1	3:L:137:ASP:N	2.49	0.45
5:Q:189:THR:HA	5:Q:192:ARG:HE	1.82	0.45
1:S:897:PRO:HA	1:S:902:LYS:HE3	1.98	0.45
1:S:2306:ASN:HA	1:S:2309:PHE:CE2	2.52	0.45
1:S:2448:PRO:O	1:S:2452:ARG:HG2	2.17	0.45
1:S:2597:PHE:CD2	1:S:2765:GLN:HG2	2.52	0.45
1:S:3420:CYS:CB	1:S:3446:VAL:HG11	2.47	0.45
2:T:90:THR:O	2:T:101:ASN:HA	2.17	0.45
1:A:207:GLN:HG3	1:A:217:LEU:HD13	1.98	0.44
1:A:611:ASN:OD1	1:A:612:LEU:N	2.44	0.44
1:A:723:ASP:C	1:A:725:LEU:H	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:933:LEU:HD21	1:A:2794:LEU:HD23	1.98	0.44
1:A:1118:GLU:HB3	1:A:1121:LEU:HB2	2.00	0.44
1:A:1188:ILE:HG13	1:A:1189:GLU:N	2.32	0.44
1:A:1458:LEU:HD11	1:A:1463:LEU:HB2	1.98	0.44
1:A:1610:ASN:OD1	1:A:1610:ASN:N	2.48	0.44
1:A:1664:SER:HA	1:A:1668:PHE:HD2	1.82	0.44
1:A:2106:ARG:NH1	1:A:2107:SER:HB3	2.31	0.44
1:A:2418:LYS:HA	1:A:2418:LYS:HD3	1.73	0.44
1:A:3428:GLU:OE1	1:A:3474:ARG:NH1	2.50	0.44
1:A:3880:ALA:HB2	1:A:3965:ARG:NE	2.27	0.44
2:B:115:ARG:HA	2:B:118:GLU:OE1	2.17	0.44
2:B:366:LEU:HD23	2:B:436:PHE:CE2	2.52	0.44
2:B:511:VAL:HB	3:C:255:SER:OG	2.17	0.44
3:C:674:PHE:HB2	3:C:675:TRP:CE3	2.52	0.44
3:L:11:VAL:HG23	3:L:55:ALA:CB	2.46	0.44
6:R:815:ARG:HA	6:R:851:LYS:HA	1.99	0.44
1:S:41:GLU:OE1	1:S:41:GLU:HA	2.16	0.44
1:S:461:ILE:O	1:S:464:VAL:HG22	2.17	0.44
1:S:524:TYR:HA	1:S:527:TYR:CE2	2.51	0.44
1:S:535:LEU:HD12	1:S:637:LYS:HZ3	1.82	0.44
1:S:1034:ARG:HG3	1:S:1085:ILE:HA	1.99	0.44
1:S:1076:LEU:HB3	1:S:1123:THR:OG1	2.17	0.44
1:S:1713:VAL:HA	1:S:1716:GLN:CD	2.37	0.44
1:S:2925:GLU:HA	1:S:2928:LYS:HE2	2.00	0.44
1:S:3104:GLN:NE2	1:S:3105:ASN:OD1	2.50	0.44
1:S:3324:ARG:HH12	1:S:3411:ASP:HB2	1.82	0.44
1:S:3383:GLN:O	1:S:3386:SER:OG	2.30	0.44
1:S:3448:GLU:O	1:S:3452:LYS:HG3	2.18	0.44
1:S:4006:VAL:HG11	1:S:4009:PRO:HG3	1.98	0.44
1:S:4093:GLU:HB3	1:S:4094:PRO:HD3	1.99	0.44
2:T:68:GLN:HE22	2:T:116:ILE:HA	1.82	0.44
1:A:850:GLU:O	1:A:854:ARG:HG2	2.17	0.44
1:A:1365:ASN:HD21	1:A:1367:HIS:HB3	1.83	0.44
1:A:2477:LEU:HD13	1:A:2505:VAL:HG13	1.98	0.44
1:A:2581:LEU:HB2	1:A:2781:PRO:HB2	2.00	0.44
1:A:2916:LEU:HD12	1:A:2917:PRO:HD2	1.99	0.44
1:A:3325:ASP:HA	1:A:3328:ILE:HB	1.99	0.44
1:A:3613:MET:HE1	1:A:3799:ARG:NH1	2.25	0.44
1:A:3679:ASN:O	1:A:3724:GLU:HG3	2.17	0.44
1:A:4085:LYS:HG2	1:A:4087:HIS:NE2	2.32	0.44
2:B:75:ILE:HG21	3:C:316:TYR:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:343:PRO:HG3	2:B:403:ARG:C	2.38	0.44
2:B:413:LEU:HB3	2:B:432:PHE:HD2	1.83	0.44
2:B:493:LEU:O	6:I:708:ARG:NH1	2.51	0.44
3:C:90:LEU:O	3:C:94:ILE:HG13	2.18	0.44
4:D:98:LEU:HD23	4:D:105:LEU:HD13	2.00	0.44
5:H:187:LYS:O	5:H:191:ILE:HG12	2.17	0.44
6:I:743:MET:N	6:I:743:MET:SD	2.90	0.44
6:I:758:TYR:CD1	6:I:764:SER:HB3	2.53	0.44
6:I:819:TYR:HB3	6:I:862:HIS:HB2	2.00	0.44
3:L:12:LEU:HB3	3:L:14:MET:HE3	1.99	0.44
3:L:427:MET:N	2:T:478:PHE:O	2.48	0.44
4:M:58:ALA:HA	4:M:61:LYS:HE3	1.99	0.44
1:S:51:LEU:HD23	1:S:51:LEU:H	1.82	0.44
1:S:180:LEU:C	1:S:185:HIS:HE2	2.20	0.44
1:S:229:SER:HA	1:S:278:HIS:CE1	2.50	0.44
1:S:473:PRO:HG3	1:S:1558:TYR:CD1	2.52	0.44
1:S:571:SER:HA	1:S:574:LYS:NZ	2.32	0.44
1:S:584:GLU:C	1:S:613:HIS:HB3	2.37	0.44
1:S:1096:VAL:O	1:S:1100:VAL:HG13	2.16	0.44
1:S:1333:SER:O	1:S:1337:VAL:HG23	2.16	0.44
1:S:1423:ILE:HG13	1:S:1425:ALA:H	1.82	0.44
1:S:1513:GLY:HA2	1:S:1516:GLU:OE2	2.17	0.44
1:S:1725:GLN:OE1	1:S:1727:ARG:N	2.45	0.44
1:S:2215:LEU:HA	1:S:2218:PHE:CD2	2.52	0.44
1:S:2586:PHE:CZ	1:S:2782:ASP:HB3	2.51	0.44
1:S:2735:ASP:OD1	1:S:2735:ASP:N	2.50	0.44
1:S:2979:GLN:HE21	1:S:2985:GLU:HB2	1.82	0.44
1:S:3617:LEU:HD22	1:S:3633:ILE:HG22	1.98	0.44
1:S:3718:ARG:H	1:S:3743:HIS:HB3	1.82	0.44
1:A:361:ILE:HD12	1:A:361:ILE:H	1.82	0.44
1:A:394:GLN:CG	1:A:1737:ASN:HB3	2.48	0.44
1:A:962:TYR:HB3	1:A:966:PHE:CE2	2.52	0.44
1:A:1415:LEU:O	1:A:1419:LEU:HG	2.17	0.44
1:A:1488:TYR:HA	1:A:1559:PHE:CE1	2.53	0.44
1:A:2430:GLU:HA	1:A:2433:LYS:HE2	1.98	0.44
1:A:2835:LYS:HA	1:A:2838:GLN:NE2	2.33	0.44
1:A:3630:ARG:HA	1:A:3630:ARG:HD2	1.81	0.44
1:A:3868:VAL:O	1:A:3872:ARG:HD3	2.18	0.44
2:B:161:MET:HB2	2:B:164:LYS:HE3	1.99	0.44
3:C:198:THR:HG23	3:C:201:GLN:H	1.81	0.44
6:I:841:LYS:NZ	6:I:868:ASP:OD2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:266:SER:HB3	3:L:363:LYS:HB2	1.99	0.44
6:R:658:ILE:HD12	6:R:735:PHE:H	1.82	0.44
1:S:22:ALA:HA	1:S:24:ARG:NH1	2.29	0.44
1:S:2264:ASP:HB3	1:S:2309:PHE:CZ	2.52	0.44
1:S:2542:LEU:HA	1:S:2545:LEU:HD23	1.99	0.44
1:S:2571:ASP:HB2	1:S:2787:HIS:CE1	2.52	0.44
1:S:2854:PHE:CZ	1:S:2858:ILE:HD11	2.52	0.44
1:S:3058:ASP:OD1	1:S:3058:ASP:N	2.50	0.44
1:S:3137:GLU:O	1:S:3140:GLU:HG2	2.18	0.44
1:S:3416:LEU:HD23	1:S:3449:LYS:HD2	1.99	0.44
1:S:3509:ASP:N	1:S:3509:ASP:OD1	2.51	0.44
2:T:35:ARG:HA	2:T:252:ARG:HH12	1.82	0.44
2:T:275:ASN:HB3	2:T:366:LEU:HD13	1.99	0.44
1:A:229:SER:HA	1:A:278:HIS:CE1	2.52	0.44
1:A:1101:PHE:O	1:A:1105:VAL:HG13	2.18	0.44
1:A:1206:LEU:HA	1:A:1209:LYS:HG2	1.99	0.44
1:A:1255:CYS:HA	1:A:1258:ASP:OD2	2.18	0.44
1:A:1427:SER:O	1:A:1431:LEU:HG	2.18	0.44
1:A:1458:LEU:HA	1:A:1461:ALA:HB3	1.97	0.44
1:A:2295:GLN:NE2	1:A:2298:GLU:OE2	2.50	0.44
1:A:2428:ASP:O	1:A:2432:GLN:HG2	2.17	0.44
1:A:2541:ALA:O	1:A:2544:SER:OG	2.33	0.44
1:A:2925:GLU:O	1:A:2928:LYS:HB2	2.17	0.44
1:A:3714:GLU:OE1	1:A:3718:ARG:NH2	2.48	0.44
1:A:4064:LEU:O	1:A:4068:HIS:HB3	2.17	0.44
2:B:350:PHE:CZ	3:C:458:ILE:HG12	2.52	0.44
2:B:375:VAL:HG12	2:B:378:SER:HB3	1.99	0.44
3:C:43:GLN:HG2	3:C:47:PHE:CE2	2.52	0.44
3:C:636:ILE:O	3:C:640:ARG:HG2	2.18	0.44
3:L:435:PHE:O	2:T:426:GLN:NE2	2.51	0.44
3:L:603:LYS:NZ	3:L:645:GLU:OE2	2.46	0.44
3:L:643:ARG:HB2	3:L:655:PHE:CE2	2.53	0.44
3:L:673:HIS:ND1	3:L:673:HIS:O	2.49	0.44
6:R:810:LEU:HD23	6:R:848:HIS:HB3	1.98	0.44
1:S:19:LEU:HD22	1:S:34:LEU:HA	1.99	0.44
1:S:297:LEU:HB3	1:S:316:LEU:HD12	1.99	0.44
1:S:640:GLU:HA	1:S:643:GLU:CD	2.37	0.44
1:S:746:ARG:O	1:S:750:PRO:HD3	2.16	0.44
1:S:1198:LEU:O	1:S:1202:ARG:NH2	2.50	0.44
1:S:2820:MET:O	1:S:2824:LYS:HG2	2.18	0.44
1:S:3154:GLN:HB3	1:S:3158:LYS:HZ1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3358:ARG:O	1:S:3362:LEU:HG	2.18	0.44
1:A:204:LEU:HD21	1:A:224:LEU:HD21	1.98	0.44
1:A:748:TYR:O	1:A:752:LEU:HD23	2.17	0.44
1:A:1049:GLN:O	1:A:1055:ASN:HB3	2.18	0.44
1:A:1251:GLN:HG2	1:A:1252:ALA:N	2.32	0.44
1:A:3584:LEU:O	1:A:3799:ARG:NH2	2.50	0.44
1:A:3723:ASP:HA	1:A:3741:ARG:HH21	1.82	0.44
2:B:291:GLU:C	6:I:691:GLN:HG2	2.38	0.44
2:B:318:ARG:HH21	2:B:331:LYS:H	1.65	0.44
2:B:480:ASN:O	2:B:484:GLN:HG2	2.18	0.44
3:C:620:ILE:HG22	3:C:635:SER:HB3	2.00	0.44
6:I:758:TYR:HD1	6:I:764:SER:HB3	1.83	0.44
3:L:496:HIS:CG	3:L:506:PRO:HD3	2.52	0.44
1:S:181:LEU:HA	1:S:185:HIS:HE1	1.82	0.44
1:S:335:LYS:HD2	1:S:339:GLN:NE2	2.32	0.44
1:S:655:LEU:O	1:S:659:ARG:HG2	2.18	0.44
1:S:2468:THR:O	1:S:2472:GLN:HG3	2.18	0.44
1:S:3796:MET:HG2	1:S:3802:LEU:N	2.32	0.44
1:S:3962:ARG:NH2	1:S:4125:GLU:HB3	2.32	0.44
1:S:4012:ASP:HB2	1:S:4038:TRP:CD2	2.52	0.44
1:S:4041:ARG:O	1:S:4044:ILE:HG12	2.17	0.44
1:A:363:ILE:HA	1:A:366:TYR:HD2	1.82	0.44
1:A:392:CYS:HA	1:A:395:MET:CG	2.44	0.44
1:A:528:VAL:HG23	1:A:532:ARG:HH12	1.82	0.44
1:A:921:ALA:HB3	1:A:927:LYS:HE2	1.99	0.44
1:A:1134:LEU:O	1:A:1138:ILE:HG12	2.18	0.44
1:A:2102:LYS:NZ	1:A:2155:GLU:HG2	2.29	0.44
1:A:2271:SER:HA	1:A:2274:ILE:HD12	1.98	0.44
1:A:2340:SER:O	1:A:2344:LEU:HG	2.18	0.44
1:A:3158:LYS:HA	1:A:3161:LEU:HD21	1.99	0.44
1:A:3239:LYS:O	1:A:3243:ILE:HG12	2.18	0.44
1:A:3450:MET:HE3	1:A:3468:LEU:HD23	1.98	0.44
1:A:3532:PRO:O	1:A:3536:SER:CB	2.66	0.44
1:A:3559:LYS:HA	1:A:3562:LEU:HD23	1.99	0.44
1:A:3571:PHE:CZ	1:A:3575:LEU:HD11	2.53	0.44
2:B:70:VAL:O	2:B:74:LYS:HG2	2.18	0.44
2:B:190:ALA:O	2:B:193:LEU:HG	2.18	0.44
2:B:484:GLN:HE21	2:B:488:ARG:HH22	1.66	0.44
3:C:454:VAL:O	3:C:458:ILE:HG13	2.18	0.44
3:C:674:PHE:HB2	3:C:675:TRP:HE3	1.82	0.44
3:L:34:ALA:O	3:L:38:ILE:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:297:LEU:HD23	2:T:296:VAL:HG22	1.98	0.44
3:L:300:ASP:H	1:S:117:LYS:HZ2	1.65	0.44
1:S:1226:GLY:HA2	1:S:1259:LEU:HG	1.98	0.44
1:S:1464:LEU:HD12	1:S:1521:PHE:HD1	1.82	0.44
1:S:1711:ARG:O	1:S:1715:GLU:OE1	2.36	0.44
1:S:2102:LYS:HE2	1:S:2102:LYS:HA	1.99	0.44
1:S:2329:TYR:HA	1:S:2332:GLU:HA	2.00	0.44
1:S:2331:MET:HB2	1:S:2335:ASN:O	2.18	0.44
1:S:3008:TRP:O	1:S:3011:LEU:HB2	2.18	0.44
1:S:3134:ALA:HB2	1:S:3182:ILE:HG22	1.99	0.44
1:S:3493:TRP:CE3	1:S:3524:ASN:HB2	2.52	0.44
2:T:73:SER:O	2:T:77:SER:OG	2.25	0.44
2:T:169:PHE:CD1	2:T:203:MET:HE3	2.53	0.44
1:A:213:ARG:HB3	2:B:404:ARG:NH1	2.32	0.44
1:A:989:MET:HE1	1:A:2779:ASP:OD1	2.18	0.44
1:A:1299:GLU:O	1:A:1304:HIS:ND1	2.51	0.44
1:A:1630:ASP:HB3	1:A:1633:TRP:HE1	1.82	0.44
1:A:2361:ILE:HD11	1:A:2393:LEU:HD22	1.98	0.44
1:A:2371:PHE:CE2	1:A:2374:LEU:HB2	2.53	0.44
1:A:2532:PRO:HB2	1:A:2537:ASP:HB3	1.98	0.44
1:A:2574:ASN:N	1:A:2786:LYS:HD2	2.33	0.44
1:A:2889:GLY:O	1:A:2892:LEU:HG	2.18	0.44
1:A:3733:ARG:HB3	1:A:3754:GLY:CA	2.48	0.44
2:B:304:ASN:N	2:B:309:GLY:O	2.50	0.44
2:B:312:LEU:N	2:B:315:ASP:OD2	2.50	0.44
3:C:45:GLN:O	3:C:49:GLU:N	2.50	0.44
3:L:281:ALA:N	2:T:315:ASP:O	2.50	0.44
5:P:194:LEU:HD22	5:Q:194:LEU:HG	2.00	0.44
1:S:307:GLU:HA	1:S:310:LYS:HE2	1.99	0.44
1:S:474:VAL:HA	1:S:477:ASN:HD21	1.83	0.44
1:S:1142:HIS:CE1	1:S:1146:ASN:HD21	2.35	0.44
1:S:1565:GLU:H	1:S:1565:GLU:CD	2.20	0.44
1:S:1849:ASP:OD1	1:S:1850:VAL:N	2.51	0.44
1:S:2295:GLN:HG3	1:S:2298:GLU:HG2	1.99	0.44
1:S:2344:LEU:HA	1:S:2347:LYS:HZ1	1.83	0.44
1:S:2368:THR:HA	1:S:2371:PHE:O	2.17	0.44
1:S:2788:SER:HA	1:S:2791:ILE:HG12	1.99	0.44
1:S:2941:GLY:O	1:S:2944:THR:OG1	2.36	0.44
1:S:3061:LEU:O	1:S:3065:ILE:HG12	2.18	0.44
1:S:4064:LEU:O	1:S:4068:HIS:HB3	2.18	0.44
2:T:317:LYS:HB3	2:T:328:ILE:HG23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:ARG:HB2	1:A:103:TYR:CE2	2.45	0.44
1:A:476:ARG:NH1	1:A:1562:LEU:HD23	2.33	0.44
1:A:1172:LEU:HA	1:A:1175:HIS:HB2	2.00	0.44
1:A:1779:GLN:HA	1:A:1782:PHE:HD2	1.82	0.44
1:A:1779:GLN:O	1:A:1783:ARG:HG2	2.17	0.44
1:A:2404:ARG:C	1:A:2441:LYS:HZ1	2.20	0.44
1:A:2427:ARG:NH2	1:A:2428:ASP:HA	2.32	0.44
1:A:3033:GLU:HB2	1:A:3034:PRO:HD3	2.00	0.44
1:A:4092:GLN:O	1:A:4095:GLU:HG2	2.18	0.44
1:A:4113:ASP:O	1:A:4116:ILE:HG22	2.18	0.44
2:B:69:SER:OG	2:B:243:LEU:HA	2.18	0.44
2:B:103:TYR:CG	2:B:135:MET:HE1	2.53	0.44
4:M:196:ALA:HA	2:T:477:SER:HA	2.00	0.44
1:S:417:VAL:O	1:S:421:LEU:HD23	2.18	0.44
1:S:435:LEU:HA	1:S:438:LEU:HD12	1.99	0.44
1:S:672:ILE:HG22	1:S:676:ASN:HD21	1.81	0.44
1:S:831:LEU:HD12	1:S:833:HIS:H	1.83	0.44
1:S:849:GLU:HA	1:S:852:ARG:HD3	1.98	0.44
1:S:2229:ALA:O	1:S:2233:HIS:N	2.45	0.44
1:S:2230:VAL:HA	1:S:2233:HIS:HB3	2.00	0.44
1:S:2284:ASP:N	1:S:2284:ASP:OD1	2.45	0.44
1:S:2331:MET:CE	1:S:2337:LEU:H	2.30	0.44
1:S:2340:SER:O	1:S:2344:LEU:HG	2.18	0.44
1:S:2840:PHE:HA	1:S:2843:PHE:CD2	2.53	0.44
1:S:3422:GLN:N	1:S:3425:ARG:HH21	2.15	0.44
1:S:4102:THR:O	1:S:4105:LYS:HG3	2.17	0.44
2:T:79:ASP:OD1	2:T:79:ASP:N	2.50	0.44
2:T:345:LEU:HG	2:T:400:TYR:HD1	1.83	0.44
1:A:410:MET:N	1:A:411:PRO:HD2	2.33	0.44
1:A:574:LYS:HA	1:A:577:GLU:OE2	2.18	0.44
1:A:655:LEU:O	1:A:658:THR:OG1	2.26	0.44
1:A:745:VAL:O	1:A:749:VAL:HG23	2.17	0.44
1:A:757:LYS:O	1:A:760:LEU:HB2	2.17	0.44
1:A:800:LEU:HB3	1:A:3114:TYR:CE2	2.52	0.44
1:A:944:LYS:O	1:A:947:GLN:HG3	2.18	0.44
1:A:1524:LEU:H	1:A:1524:LEU:HD23	1.83	0.44
1:A:1608:ARG:HB3	1:A:1612:LYS:CE	2.48	0.44
1:A:2224:PHE:HA	1:A:2231:PHE:CD1	2.53	0.44
1:A:2393:LEU:O	1:A:2396:LEU:HB2	2.18	0.44
1:A:2437:ASP:O	1:A:2441:LYS:HG2	2.18	0.44
1:A:2948:GLY:HA3	1:A:2954:GLN:HE22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3177:ASN:OD1	1:A:3178:ILE:HG13	2.18	0.44
1:A:3483:MET:HE1	1:A:3513:ALA:H	1.83	0.44
1:A:3531:TYR:CE2	1:A:3794:VAL:HB	2.52	0.44
2:B:276:LEU:C	3:C:431:ARG:HG2	2.38	0.44
2:B:299:LYS:NZ	3:C:296:CYS:HB3	2.33	0.44
3:L:521:GLU:O	3:L:524:THR:OG1	2.28	0.44
4:M:120:ARG:HH11	4:M:124:LEU:HD13	1.82	0.44
1:S:98:GLN:NE2	1:S:140:SER:O	2.45	0.44
1:S:181:LEU:HA	1:S:185:HIS:CE1	2.53	0.44
1:S:475:LEU:O	1:S:479:ILE:HG12	2.18	0.44
1:S:848:LEU:HA	1:S:851:ILE:HG12	2.00	0.44
1:S:1279:LEU:HD23	1:S:1279:LEU:H	1.82	0.44
1:S:1470:SER:HA	1:S:1476:HIS:HE1	1.82	0.44
1:S:1536:ALA:HB3	1:S:1555:HIS:HB2	1.99	0.44
1:S:2371:PHE:CE2	1:S:2373:PRO:HG2	2.53	0.44
1:S:2427:ARG:HH12	1:S:2429:ASP:CA	2.29	0.44
1:S:2773:ARG:HE	1:S:2775:TYR:HE1	1.66	0.44
1:A:13:LEU:HB2	1:A:59:PHE:CZ	2.53	0.43
1:A:446:PHE:CZ	1:A:530:LEU:HD13	2.53	0.43
1:A:1481:THR:O	1:A:1484:LEU:HG	2.17	0.43
1:A:1580:LEU:O	1:A:1584:GLN:HG2	2.18	0.43
1:A:2331:MET:SD	1:A:2335:ASN:HB3	2.58	0.43
1:A:3838:GLU:CD	1:A:4122:GLU:HB3	2.39	0.43
1:A:3928:PHE:CE2	1:A:3962:ARG:HG3	2.53	0.43
1:A:4127:TRP:HD1	1:A:4128:MET:HG2	1.82	0.43
3:C:246:HIS:HB3	3:C:264:TYR:CE2	2.52	0.43
5:H:41:SER:HB3	5:H:119:PRO:HB3	2.00	0.43
6:I:655:ILE:HD12	6:I:684:GLU:HB3	1.99	0.43
6:I:666:VAL:HB	6:I:679:GLU:OE2	2.18	0.43
3:L:322:PRO:HB2	6:R:692:ASN:HD21	1.83	0.43
3:L:426:PHE:CE2	2:T:480:ASN:HB2	2.53	0.43
5:Q:178:LYS:O	5:Q:181:ILE:HG22	2.17	0.43
1:S:441:MET:O	1:S:444:ASP:HB3	2.18	0.43
1:S:771:ASN:O	1:S:774:GLU:HG2	2.18	0.43
1:S:880:MET:SD	1:S:882:SER:N	2.89	0.43
1:S:1253:THR:O	1:S:1257:LEU:HG	2.18	0.43
1:S:1769:GLU:OE1	1:S:1772:HIS:HB3	2.18	0.43
1:S:1852:LYS:HD3	1:S:1852:LYS:HA	1.74	0.43
1:S:2138:VAL:O	1:S:2143:ARG:HD2	2.17	0.43
1:S:2260:PHE:O	1:S:2306:ASN:ND2	2.51	0.43
1:S:2395:THR:HG23	1:S:2434:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2404:ARG:HE	1:S:2406:GLU:HG3	1.83	0.43
1:S:3164:TRP:HE3	1:S:3167:ARG:NH1	2.16	0.43
1:S:3454:LEU:HD11	1:S:3462:ARG:HA	2.00	0.43
2:T:418:GLU:HA	2:T:428:THR:O	2.17	0.43
1:A:60:SER:HA	1:A:63:PHE:HB2	1.99	0.43
1:A:103:TYR:O	1:A:107:ILE:HG12	2.18	0.43
1:A:115:TYR:HE1	1:A:123:CYS:HG	1.64	0.43
1:A:461:ILE:O	1:A:465:PHE:CD2	2.72	0.43
1:A:945:ALA:HB2	1:A:958:MET:HE1	1.98	0.43
1:A:966:PHE:HA	1:A:969:LEU:HD12	1.99	0.43
1:A:1195:VAL:HA	1:A:1198:LEU:HG	1.99	0.43
1:A:2121:ASP:HA	1:A:2126:MET:HB3	2.01	0.43
1:A:2227:LYS:C	1:A:2228:ARG:HD3	2.39	0.43
1:A:2331:MET:O	1:A:2334:LYS:HG2	2.19	0.43
1:A:2376:ASP:HA	1:A:2379:MET:SD	2.58	0.43
1:A:2399:GLU:O	1:A:2402:LEU:HB2	2.18	0.43
1:A:3477:GLU:H	1:A:3477:GLU:CD	2.21	0.43
1:A:3580:ASN:OD1	1:A:3674:SER:HB2	2.18	0.43
1:A:3718:ARG:H	1:A:3743:HIS:CB	2.32	0.43
2:B:317:LYS:O	3:C:279:VAL:N	2.50	0.43
2:B:465:ILE:HG12	2:B:518:LEU:HD22	1.99	0.43
3:L:362:LEU:HD23	3:L:362:LEU:HA	1.93	0.43
4:M:120:ARG:NH1	4:M:124:LEU:HD13	2.33	0.43
5:Q:166:VAL:HA	5:Q:169:LYS:HG2	2.00	0.43
1:S:38:LEU:HB3	1:S:84:GLU:OE1	2.18	0.43
1:S:1476:HIS:HB2	1:S:1521:PHE:CE2	2.53	0.43
1:S:1484:LEU:HA	1:S:1487:VAL:HG12	2.00	0.43
1:S:1847:ALA:HA	1:S:1850:VAL:HG12	2.00	0.43
1:S:2105:HIS:HB3	1:S:2106:ARG:NH1	2.33	0.43
1:S:2799:GLN:HE22	1:S:2800:ARG:NE	2.17	0.43
1:A:614:PRO:HB2	1:A:617:PRO:HG3	2.00	0.43
1:A:649:PHE:CE2	1:A:653:LEU:HD11	2.53	0.43
1:A:802:THR:OG1	1:A:852:ARG:NH2	2.51	0.43
1:A:978:GLN:HG2	1:A:979:VAL:N	2.33	0.43
1:A:1219:PHE:HA	1:A:1222:ASN:HB3	2.00	0.43
1:A:1685:ASP:OD1	1:A:1686:LEU:N	2.51	0.43
1:A:2103:HIS:HD1	1:A:2106:ARG:NH2	2.16	0.43
1:A:2978:LYS:O	1:A:2981:TRP:NE1	2.51	0.43
1:A:3011:LEU:HD13	1:A:3046:ARG:HB3	1.99	0.43
1:A:3278:GLN:HG2	1:A:3329:LEU:HD21	2.01	0.43
1:A:3508:LYS:NZ	1:A:3510:GLN:OE1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:85:VAL:HB	2:B:105:LEU:HD23	2.00	0.43
2:B:262:LYS:HA	2:B:268:VAL:HG22	2.00	0.43
2:B:420:LEU:HA	2:B:425:ILE:O	2.18	0.43
2:B:510:LYS:H	2:B:510:LYS:HD2	1.83	0.43
3:C:42:VAL:HG11	3:C:94:ILE:HD12	2.01	0.43
3:L:322:PRO:HB3	2:T:288:LEU:HD11	1.99	0.43
3:L:604:GLN:HG3	3:L:605:LYS:HG3	2.00	0.43
1:S:247:GLU:HG2	1:S:251:PHE:CE1	2.53	0.43
1:S:477:ASN:OD1	1:S:478:CYS:N	2.51	0.43
1:S:1392:MET:SD	1:S:1393:ALA:N	2.92	0.43
1:S:1414:ILE:O	1:S:1417:THR:HB	2.18	0.43
1:S:2548:PRO:HB2	1:S:2848:PHE:CE1	2.54	0.43
1:S:3113:ASN:HB3	1:S:3128:LYS:NZ	2.34	0.43
1:S:3472:ILE:HG12	1:S:3479:THR:HB	2.01	0.43
1:S:3582:GLU:HB3	1:S:3586:LYS:HE2	2.00	0.43
1:S:3822:GLN:HA	1:S:3825:LYS:HG2	2.00	0.43
1:S:3884:LYS:NZ	1:S:3969:ASN:O	2.51	0.43
2:T:112:GLY:O	2:T:116:ILE:HG12	2.19	0.43
1:A:183:GLU:HG2	1:A:184:VAL:N	2.32	0.43
1:A:412:SER:HA	1:A:415:GLN:NE2	2.34	0.43
1:A:992:ILE:HG22	1:A:993:HIS:HD2	1.83	0.43
1:A:1333:SER:O	1:A:1337:VAL:HG23	2.17	0.43
1:A:2154:GLU:OE1	1:A:2154:GLU:N	2.51	0.43
1:A:2335:ASN:O	1:A:2336:ILE:HD13	2.18	0.43
2:B:263:LEU:HD11	2:B:269:ILE:HD12	2.01	0.43
3:C:377:LEU:O	3:C:381:ILE:HG12	2.19	0.43
3:C:486:ARG:O	3:C:490:LEU:HG	2.19	0.43
4:D:90:GLN:O	4:D:92:ASP:N	2.50	0.43
3:L:154:LEU:HD13	3:L:161:LEU:HD13	2.00	0.43
3:L:531:SER:HA	3:L:534:LYS:HG2	2.00	0.43
6:R:798:ASP:O	6:R:802:ARG:HG2	2.18	0.43
1:S:884:VAL:HG21	1:S:3933:GLU:HA	2.01	0.43
1:S:897:PRO:HG3	1:S:2787:HIS:HB3	1.99	0.43
1:S:1066:LEU:CD1	1:S:1078:ALA:HB2	2.48	0.43
1:S:2147:ALA:HA	1:S:2150:VAL:HG12	2.01	0.43
1:S:2191:ALA:HB3	1:S:2725:LEU:HD13	2.01	0.43
1:S:2358:ASP:OD1	1:S:2359:LYS:N	2.47	0.43
1:S:2782:ASP:N	1:S:2782:ASP:OD1	2.45	0.43
1:S:2821:ASP:HA	1:S:2829:LYS:HD3	1.99	0.43
1:S:3104:GLN:HA	1:S:3107:ILE:HD12	1.99	0.43
1:S:3370:SER:O	1:S:3374:ILE:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3487:ILE:HG13	1:S:3516:HIS:HB2	2.00	0.43
2:T:513:ALA:HB1	2:T:517:ARG:NH1	2.32	0.43
1:A:676:ASN:O	1:A:679:LYS:HB3	2.17	0.43
1:A:700:LYS:HB3	1:A:704:PHE:CZ	2.53	0.43
1:A:771:ASN:O	1:A:775:GLU:OE1	2.36	0.43
1:A:1201:ASN:CB	1:A:1207:TRP:HB2	2.46	0.43
1:A:1386:ILE:HD12	1:A:1386:ILE:HA	1.92	0.43
1:A:2291:GLN:HG2	1:A:2292:CYS:N	2.33	0.43
1:A:3048:LYS:O	1:A:3052:LEU:HD23	2.18	0.43
1:A:3270:ASP:OD1	1:A:3271:ASP:N	2.51	0.43
1:A:3589:SER:HA	1:A:3592:VAL:HG12	2.01	0.43
1:A:4124:TRP:O	1:A:4125:GLU:HG2	2.18	0.43
2:B:168:LEU:HD21	2:B:202:LEU:HB2	2.01	0.43
3:C:479:THR:HG23	3:C:480:THR:HG23	2.00	0.43
5:G:176:LEU:HA	5:G:179:ARG:HG2	2.00	0.43
6:I:663:GLU:HB3	6:I:697:THR:HA	2.01	0.43
3:L:458:ILE:HG23	2:T:350:PHE:CG	2.53	0.43
3:L:599:ARG:C	3:L:603:LYS:HZ2	2.22	0.43
5:Q:6:SER:O	5:Q:6:SER:OG	2.36	0.43
5:Q:122:VAL:O	5:Q:126:LEU:HG	2.18	0.43
5:Q:143:HIS:ND1	5:Q:146:LYS:HE3	2.34	0.43
1:S:128:LEU:HD23	1:S:173:LYS:HZ1	1.83	0.43
1:S:885:ALA:HB2	1:S:3890:MET:O	2.19	0.43
1:S:910:PHE:O	1:S:914:VAL:HG12	2.18	0.43
1:S:1046:PRO:O	1:S:1050:GLU:HG2	2.18	0.43
1:S:1086:TYR:CE1	1:S:1133:HIS:HB3	2.54	0.43
1:S:1479:VAL:HG21	1:S:1518:ALA:HA	2.00	0.43
1:S:1869:LYS:HB3	1:S:1873:TYR:CZ	2.53	0.43
1:S:3087:SER:OG	1:S:3099:ALA:O	2.24	0.43
1:S:3796:MET:HB2	1:S:3800:LEU:O	2.18	0.43
2:T:43:ASP:O	2:T:48:MET:HG3	2.18	0.43
2:T:339:ARG:HB2	2:T:405:ASN:HA	1.99	0.43
1:A:938:VAL:HA	1:A:941:MET:CG	2.48	0.43
1:A:1086:TYR:CZ	1:A:1133:HIS:HB3	2.54	0.43
1:A:2205:VAL:HG22	1:A:2207:LYS:H	1.83	0.43
1:A:2547:SER:O	1:A:2550:ILE:HG12	2.18	0.43
1:A:2776:ARG:HH21	1:A:2782:ASP:CB	2.31	0.43
1:A:2788:SER:HA	1:A:2791:ILE:HG12	2.01	0.43
1:A:3795:PRO:HA	1:A:3801:GLY:HA2	2.00	0.43
1:A:3818:ASN:O	1:A:3822:GLN:NE2	2.48	0.43
2:B:92:LYS:HB2	2:B:135:MET:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:240:GLU:HG2	2:B:241:ASP:N	2.33	0.43
2:B:290:ARG:HA	6:I:692:ASN:HB2	2.00	0.43
3:C:410:PRO:HA	3:C:419:LEU:HA	2.00	0.43
5:G:194:LEU:HB3	5:H:194:LEU:HD13	2.01	0.43
5:Q:158:VAL:HA	5:Q:161:ARG:CD	2.48	0.43
1:S:76:ILE:O	1:S:80:GLU:HG2	2.18	0.43
1:S:297:LEU:HD22	1:S:316:LEU:HB2	2.00	0.43
1:S:683:PHE:CE1	1:S:737:PRO:HG3	2.54	0.43
1:S:1672:PHE:CZ	1:S:1676:ILE:HD11	2.54	0.43
1:S:2376:ASP:OD1	1:S:2376:ASP:N	2.51	0.43
1:S:2525:TRP:O	1:S:2531:LEU:HB2	2.19	0.43
1:S:3572:ILE:HG23	1:S:3800:LEU:CD2	2.48	0.43
2:T:191:GLY:O	2:T:194:ARG:HG2	2.18	0.43
1:A:131:LEU:HD22	1:A:177:LEU:HD11	2.00	0.43
1:A:363:ILE:O	1:A:366:TYR:HB2	2.19	0.43
1:A:429:GLU:N	1:A:1640:GLU:OE2	2.52	0.43
1:A:571:SER:HA	1:A:574:LYS:HE2	2.00	0.43
1:A:618:LYS:CD	1:A:2034:SER:HB2	2.49	0.43
1:A:638:GLN:OE1	1:A:679:LYS:HE3	2.19	0.43
1:A:1353:PRO:HD2	1:A:1356:TRP:CZ3	2.53	0.43
1:A:1392:MET:HA	1:A:1395:LEU:HG	2.00	0.43
1:A:1797:LEU:O	1:A:1801:VAL:HG22	2.19	0.43
1:A:1923:PHE:CD1	1:A:1941:HIS:HB3	2.46	0.43
1:A:2142:ILE:O	1:A:2146:LEU:HG	2.19	0.43
1:A:3274:VAL:HG11	1:A:3311:ASN:CB	2.47	0.43
1:A:3779:SER:O	1:A:3783:GLN:HG3	2.18	0.43
2:B:171:ASN:ND2	2:B:207:LYS:HB2	2.32	0.43
2:B:239:LEU:O	2:B:243:LEU:N	2.44	0.43
3:C:68:LEU:HD21	3:C:116:ASP:OD2	2.18	0.43
4:D:38:ASN:HB2	4:D:40:TYR:CZ	2.54	0.43
5:H:8:ILE:HB	5:H:86:PHE:CD2	2.53	0.43
3:L:75:GLN:O	3:L:77:ILE:HG13	2.19	0.43
3:L:340:PHE:CE2	3:L:393:VAL:HG11	2.54	0.43
3:L:500:HIS:HA	3:L:502:ARG:NH1	2.33	0.43
6:R:826:ILE:HG22	6:R:827:ASN:H	1.84	0.43
1:S:196:LEU:HB3	1:S:200:PHE:CE2	2.53	0.43
1:S:465:PHE:CE1	1:S:479:ILE:HG21	2.52	0.43
1:S:636:GLU:OE2	1:S:637:LYS:HG2	2.18	0.43
1:S:835:LYS:O	1:S:839:ASN:N	2.49	0.43
1:S:2439:ILE:O	1:S:2442:MET:HB3	2.18	0.43
1:S:2796:ALA:HA	1:S:2799:GLN:HE21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3240:MET:HE1	1:S:3243:ILE:HD12	1.99	0.43
1:S:3841:ASP:HB2	1:S:3873:LYS:HE3	2.01	0.43
1:S:3966:GLN:HA	1:S:3969:ASN:HB2	1.99	0.43
1:S:3998:LEU:O	1:S:4002:MET:HG3	2.19	0.43
2:T:259:LEU:HB2	2:T:273:ILE:HD11	2.01	0.43
1:A:160:LEU:HD21	1:A:174:VAL:HG11	2.01	0.43
1:A:1525:CYS:O	1:A:1528:LEU:HG	2.19	0.43
1:A:2349:LEU:HA	1:A:2353:GLN:OE1	2.19	0.43
1:A:3578:LEU:HB2	1:A:3736:LYS:HE2	2.01	0.43
1:A:3702:PRO:O	1:A:3792:SER:OG	2.35	0.43
1:A:3758:LEU:HD13	1:A:3795:PRO:HB3	2.01	0.43
2:B:67:ILE:HD11	2:B:169:PHE:CE2	2.54	0.43
2:B:352:PRO:HD2	2:B:355:LEU:HD12	2.00	0.43
2:B:537:GLU:HB2	3:C:250:ARG:HH12	1.83	0.43
5:G:7:ARG:HD2	5:G:19:PHE:HE1	1.83	0.43
4:M:96:LEU:HD23	4:M:109:LEU:HD21	2.00	0.43
5:P:190:LYS:NZ	5:Q:191:ILE:HG23	2.33	0.43
1:S:188:GLU:HG3	1:S:189:MET:H	1.83	0.43
1:S:789:TYR:CD1	1:S:792:ILE:HD12	2.53	0.43
1:S:1710:LEU:O	1:S:1713:VAL:HG22	2.19	0.43
1:S:2122:LEU:HD12	1:S:2126:MET:HE1	2.00	0.43
1:S:2891:ARG:HH21	1:S:3898:LEU:CB	2.31	0.43
1:S:2920:VAL:HA	1:S:2923:TRP:HB2	2.01	0.43
1:S:2940:ARG:HH21	1:S:3982:SER:HB3	1.84	0.43
1:S:3074:GLN:HA	1:S:3077:ILE:HG12	2.01	0.43
1:S:3192:LYS:O	1:S:3196:LYS:HG2	2.19	0.43
1:S:3723:ASP:HB2	1:S:3741:ARG:HB2	2.01	0.43
2:T:65:GLN:CG	2:T:243:LEU:HD11	2.49	0.43
1:A:203:GLU:O	1:A:207:GLN:HG2	2.19	0.43
1:A:417:VAL:O	1:A:421:LEU:HD23	2.19	0.43
1:A:436:GLU:O	1:A:439:VAL:HG22	2.19	0.43
1:A:955:ALA:O	1:A:957:PRO:HD3	2.19	0.43
1:A:988:VAL:O	1:A:991:LEU:HG	2.19	0.43
1:A:1034:ARG:HH12	1:A:1087:ARG:HD2	1.84	0.43
1:A:1304:HIS:O	1:A:1330:TYR:OH	2.21	0.43
1:A:1373:VAL:HG21	1:A:1422:LYS:HE2	2.00	0.43
1:A:1632:TRP:CG	1:A:1645:VAL:HG11	2.53	0.43
1:A:2305:ASN:HB3	1:A:2309:PHE:CZ	2.53	0.43
1:A:4049:ARG:NH2	1:A:4062:ASP:HB2	2.34	0.43
2:B:219:ASP:OD1	2:B:219:ASP:N	2.46	0.43
2:B:388:LYS:HA	2:B:391:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:12:LEU:HB3	3:C:56:LEU:HD13	2.00	0.43
5:H:99:LYS:HD3	5:H:99:LYS:HA	1.85	0.43
3:L:412:ILE:HG23	3:L:417:GLU:HG2	2.01	0.43
3:L:664:GLU:O	3:L:668:ILE:HG23	2.19	0.43
3:L:667:GLU:OE2	3:L:702:LYS:HD3	2.19	0.43
1:S:74:ASN:OD1	1:S:118:ASP:HB3	2.19	0.43
1:S:284:THR:HA	1:S:287:LEU:HD23	2.01	0.43
1:S:289:ASN:HB3	1:S:292:SER:OG	2.19	0.43
1:S:442:GLN:NE2	1:S:461:ILE:HD11	2.34	0.43
1:S:746:ARG:NH2	1:S:788:TYR:HB3	2.34	0.43
1:S:998:ASN:HA	1:S:1001:PHE:CD1	2.53	0.43
1:S:1558:TYR:CE2	1:S:1562:LEU:HD11	2.54	0.43
1:S:1786:ALA:HB2	1:S:1827:LEU:HD13	2.01	0.43
1:S:2094:MET:O	1:S:2097:LEU:HB2	2.18	0.43
1:S:2422:GLN:O	1:S:2426:HIS:N	2.51	0.43
1:S:2840:PHE:O	1:S:2844:LEU:HG	2.18	0.43
1:S:3145:ILE:O	1:S:3150:ASN:HB3	2.19	0.43
1:S:3913:ILE:HD13	1:S:3987:ALA:HB3	2.01	0.43
1:S:3924:HIS:N	1:S:3927:ASN:OD1	2.48	0.43
2:T:62:MET:HA	2:T:65:GLN:CD	2.39	0.43
1:A:389:ILE:HG22	1:A:393:LYS:NZ	2.34	0.43
1:A:933:LEU:HD13	1:A:2793:PRO:HG2	2.00	0.43
1:A:991:LEU:O	1:A:995:PHE:N	2.26	0.43
1:A:1201:ASN:CG	1:A:1207:TRP:HB2	2.39	0.43
1:A:1346:THR:O	1:A:1350:ASN:ND2	2.52	0.43
1:A:2254:ARG:HD3	1:A:2294:ILE:CG1	2.46	0.43
1:A:3008:TRP:H	1:A:3008:TRP:HE3	1.63	0.43
1:A:3132:VAL:HA	1:A:3135:LEU:HD12	2.00	0.43
1:A:3235:LYS:HB3	1:A:3239:LYS:NZ	2.33	0.43
1:A:3586:LYS:HE2	1:A:3668:LEU:HD13	2.01	0.43
1:A:3629:ARG:NH1	1:A:3633:ILE:HD13	2.34	0.43
1:A:4008:GLU:HG3	1:A:4011:PHE:CB	2.48	0.43
2:B:320:GLN:HG2	3:C:274:LYS:HE2	2.01	0.43
2:B:325:ARG:NH2	3:C:497:ARG:O	2.51	0.43
2:B:370:PRO:HB3	2:B:382:PHE:CG	2.54	0.43
3:C:81:ARG:HG3	3:C:84:MET:HE2	2.00	0.43
3:C:168:SER:HB3	3:C:229:GLU:OE2	2.19	0.43
3:C:450:GLN:HG2	3:C:536:LEU:HB3	2.00	0.43
6:I:872:VAL:O	6:I:876:LYS:HG2	2.18	0.43
3:L:278:VAL:HG22	2:T:318:ARG:HH21	1.83	0.43
3:L:343:LEU:HD21	3:L:394:ARG:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:458:ILE:O	3:L:462:SER:OG	2.27	0.43
6:R:728:GLU:CD	6:R:741:ARG:HH22	2.20	0.43
1:S:1092:GLU:OE2	1:S:1094:SER:N	2.43	0.43
1:S:1190:LEU:HA	1:S:1193:LYS:HG2	2.01	0.43
1:S:1254:LEU:HD11	1:S:1329:ARG:NH2	2.34	0.43
1:S:1474:ASP:N	1:S:1474:ASP:OD1	2.52	0.43
1:S:1506:SER:O	1:S:1509:GLN:NE2	2.52	0.43
1:S:2291:GLN:OE1	1:S:2291:GLN:N	2.52	0.43
1:S:3472:ILE:HA	1:S:3479:THR:HG21	2.00	0.43
1:S:3487:ILE:HD11	1:S:3517:SER:OG	2.19	0.43
1:S:3531:TYR:HB2	1:S:3532:PRO:HD3	2.00	0.43
1:S:3533:PHE:CE2	1:S:3559:LYS:HB3	2.54	0.43
1:S:3717:VAL:HG21	1:S:3746:ARG:HE	1.84	0.43
1:S:3766:GLN:O	1:S:3770:VAL:HG13	2.19	0.43
1:S:4091:ALA:HA	1:S:4094:PRO:HD2	2.00	0.43
2:T:126:GLN:HA	2:T:129:LYS:HE2	2.01	0.43
1:A:457:CYS:O	1:A:461:ILE:HG12	2.19	0.42
1:A:477:ASN:OD1	1:A:478:CYS:N	2.52	0.42
1:A:849:GLU:OE1	1:A:849:GLU:N	2.34	0.42
1:A:1060:PHE:HB3	1:A:1064:TYR:CZ	2.54	0.42
1:A:1147:LYS:HE3	1:A:1147:LYS:HB3	1.89	0.42
1:A:1758:LEU:O	1:A:1762:MET:HG3	2.19	0.42
1:A:2318:ALA:O	1:A:2321:GLU:HG2	2.19	0.42
1:A:2747:GLY:O	1:A:2751:GLN:HG2	2.19	0.42
1:A:2785:ILE:HG22	1:A:2786:LYS:H	1.84	0.42
1:A:3364:GLY:HA2	1:A:3376:GLY:HA3	2.01	0.42
1:A:3380:ARG:HD3	1:A:3384:HIS:CE1	2.54	0.42
1:A:3423:GLN:O	1:A:3426:LYS:HG3	2.19	0.42
1:A:4107:LEU:HD12	1:A:4111:ALA:HB3	2.00	0.42
2:B:167:MET:HE3	2:B:168:LEU:O	2.19	0.42
2:B:282:LYS:NZ	2:B:483:LEU:HA	2.32	0.42
2:B:291:GLU:OE1	6:I:688:TYR:OH	2.23	0.42
3:C:16:VAL:HB	3:C:58:LEU:HD22	2.01	0.42
3:C:484:ASN:HB3	3:C:487:PHE:CE2	2.54	0.42
5:H:24:TRP:HA	5:H:33:VAL:HB	2.01	0.42
3:L:235:CYS:C	3:L:237:PHE:N	2.70	0.42
3:L:613:SER:O	3:L:616:LEU:HG	2.18	0.42
3:L:689:GLU:HA	3:L:695:SER:CB	2.45	0.42
5:P:169:LYS:NZ	5:Q:173:GLU:HG2	2.34	0.42
5:Q:166:VAL:HG23	5:Q:169:LYS:HZ2	1.83	0.42
1:S:782:ARG:HG2	1:S:789:TYR:OH	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1748:ASP:OD1	1:S:1749:ALA:N	2.52	0.42
1:S:1916:ILE:H	1:S:1916:ILE:HG13	1.64	0.42
1:S:2205:VAL:O	1:S:2207:LYS:N	2.52	0.42
1:S:2436:LEU:HD11	1:S:2473:MET:HB3	2.00	0.42
1:S:3121:LEU:O	1:S:3125:ARG:HG2	2.19	0.42
1:S:3947:GLY:HA3	1:S:4063:GLU:CD	2.39	0.42
2:T:346:MET:O	2:T:399:ARG:N	2.46	0.42
1:A:104:SER:O	1:A:108:LYS:CB	2.67	0.42
1:A:112:THR:O	1:A:116:THR:OG1	2.24	0.42
1:A:243:GLN:O	1:A:247:GLU:HG3	2.19	0.42
1:A:384:MET:O	1:A:385:TYR:C	2.57	0.42
1:A:895:ALA:HB2	1:A:904:VAL:HG22	2.01	0.42
1:A:1013:ILE:HD12	1:A:1062:ARG:HH21	1.83	0.42
1:A:1115:HIS:HE1	1:A:1181:THR:N	2.18	0.42
1:A:1194:PHE:HA	1:A:1197:LEU:HD23	2.01	0.42
1:A:1428:ILE:HD11	1:A:1448:LEU:HD23	2.02	0.42
1:A:2270:ASN:OD1	1:A:2270:ASN:N	2.52	0.42
1:A:2356:MET:HE1	1:A:2359:LYS:H	1.83	0.42
1:A:2369:LYS:HB2	1:A:2369:LYS:HE2	1.86	0.42
1:A:2962:ARG:NH2	1:A:4101:GLU:OE1	2.52	0.42
1:A:3493:TRP:HZ3	1:A:3521:ILE:HA	1.83	0.42
1:A:3518:VAL:HA	1:A:3521:ILE:HB	2.00	0.42
1:A:3786:LEU:HB3	1:A:3910:LEU:CD1	2.49	0.42
1:A:3928:PHE:HE2	1:A:3962:ARG:HG3	1.84	0.42
1:A:3970:LEU:HD23	1:A:3971:MET:H	1.83	0.42
1:A:4089:ILE:O	1:A:4091:ALA:N	2.52	0.42
2:B:108:LEU:HG	2:B:153:LEU:HD21	1.99	0.42
2:B:415:PRO:HB3	2:B:432:PHE:CZ	2.54	0.42
3:C:285:LYS:HB3	3:C:287:GLU:OE1	2.18	0.42
3:C:413:LYS:HD2	3:C:416:TYR:CE1	2.54	0.42
3:C:502:ARG:H	3:C:502:ARG:HD3	1.83	0.42
3:C:649:PHE:HB2	3:C:651:GLU:HG2	2.00	0.42
5:G:89:SER:HB3	5:G:91:GLU:OE1	2.19	0.42
5:H:12:SER:HB3	5:H:89:SER:HA	2.00	0.42
1:S:76:ILE:HA	1:S:79:ARG:HB3	2.01	0.42
1:S:144:MET:HG3	1:S:146:GLU:OE1	2.19	0.42
1:S:420:VAL:HG23	1:S:421:LEU:HD22	2.02	0.42
1:S:442:GLN:O	1:S:446:PHE:N	2.52	0.42
1:S:476:ARG:HH22	1:S:1558:TYR:HE1	1.65	0.42
1:S:574:LYS:HA	1:S:577:GLU:HG3	2.00	0.42
1:S:1580:LEU:O	1:S:1584:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1741:ASP:O	1:S:1745:LYS:HG3	2.18	0.42
1:S:2440:TYR:HA	1:S:2443:MET:CE	2.48	0.42
2:T:214:SER:HB3	2:T:218:ARG:HD2	2.01	0.42
2:T:288:LEU:HD13	2:T:293:ASN:HD22	1.84	0.42
1:A:117:LYS:HB3	3:C:300:ASP:HA	2.00	0.42
1:A:173:LYS:HA	1:A:223:CYS:SG	2.59	0.42
1:A:374:LYS:HD3	1:A:423:TYR:HB3	2.02	0.42
1:A:1034:ARG:HG3	1:A:1088:GLU:HG2	2.00	0.42
1:A:1096:VAL:O	1:A:1100:VAL:HG13	2.19	0.42
1:A:1326:GLU:O	1:A:1329:ARG:HG2	2.18	0.42
1:A:1505:LEU:O	1:A:1508:LYS:N	2.52	0.42
1:A:1608:ARG:HB3	1:A:1612:LYS:HE2	2.01	0.42
1:A:1873:TYR:O	1:A:1877:LEU:HD23	2.19	0.42
1:A:2310:VAL:HA	1:A:2316:TYR:HE1	1.84	0.42
1:A:2825:THR:O	1:A:2829:LYS:HG3	2.19	0.42
1:A:3252:PHE:HD1	1:A:3287:ARG:HD3	1.84	0.42
1:A:3530:VAL:HG23	1:A:3531:TYR:N	2.34	0.42
1:A:3814:ASP:OD1	1:A:3814:ASP:N	2.52	0.42
1:A:3878:VAL:HG13	1:A:3965:ARG:HH11	1.84	0.42
2:B:513:ALA:O	2:B:516:LYS:HG3	2.19	0.42
3:C:75:GLN:O	3:C:77:ILE:HG13	2.18	0.42
3:C:226:SER:O	3:C:230:SER:N	2.48	0.42
3:C:499:LEU:O	3:C:502:ARG:NH1	2.51	0.42
4:D:118:ALA:O	4:D:121:LEU:HG	2.20	0.42
3:L:313:GLY:HA2	3:L:323:PHE:H	1.84	0.42
3:L:337:GLY:HA2	3:L:399:LYS:N	2.35	0.42
5:Q:174:THR:HG23	6:R:792:MET:SD	2.59	0.42
6:R:706:ASN:HB2	6:R:709:VAL:HG23	2.01	0.42
6:R:841:LYS:O	6:R:845:LEU:HB2	2.19	0.42
1:S:138:PHE:HE1	1:S:149:ILE:HG21	1.84	0.42
1:S:638:GLN:HB2	1:S:641:PHE:CE2	2.54	0.42
1:S:866:ILE:HG12	1:S:3168:TYR:CE2	2.53	0.42
1:S:1415:LEU:O	1:S:1419:LEU:N	2.37	0.42
1:S:1602:ASP:HB3	1:S:1606:ARG:HH12	1.83	0.42
1:S:1627:LYS:HG2	1:S:1670:GLU:HG3	2.01	0.42
1:S:2310:VAL:HG13	1:S:2316:TYR:HE2	1.85	0.42
1:S:2376:ASP:H	1:S:2404:ARG:NH1	2.17	0.42
1:S:2497:GLU:HA	1:S:2500:LYS:HE2	2.01	0.42
1:S:3410:ILE:O	1:S:3414:MET:HG2	2.19	0.42
1:S:3571:PHE:CZ	1:S:3575:LEU:HD11	2.54	0.42
1:S:3871:PHE:HD1	1:S:4117:LEU:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:4041:ARG:HA	1:S:4044:ILE:HG12	2.02	0.42
2:T:93:ASP:HB3	2:T:101:ASN:H	1.83	0.42
2:T:290:ARG:HG3	2:T:291:GLU:HG3	2.02	0.42
2:T:322:TYR:HD2	2:T:327:ILE:HD12	1.83	0.42
1:A:159:GLU:O	1:A:162:LEU:HB3	2.19	0.42
1:A:1236:LEU:HD12	1:A:1239:PRO:HG2	2.01	0.42
1:A:1267:TYR:HB3	1:A:1344:PHE:CE1	2.54	0.42
1:A:1611:GLN:NE2	1:A:1613:HIS:HB2	2.34	0.42
1:A:2215:LEU:HD13	1:A:2218:PHE:HD2	1.83	0.42
1:A:3462:ARG:HB3	1:A:3498:TRP:HH2	1.85	0.42
1:A:3480:LEU:HD22	1:A:3483:MET:SD	2.59	0.42
1:A:4073:ALA:H	1:A:4075:ARG:NH1	2.17	0.42
2:B:388:LYS:HE3	3:C:451:LEU:HB3	2.01	0.42
3:C:368:ARG:NH2	3:C:371:GLU:OE2	2.49	0.42
5:G:194:LEU:HD23	5:G:197:LYS:HE2	2.02	0.42
6:I:861:SER:O	6:I:861:SER:OG	2.35	0.42
5:P:142:GLU:O	5:P:145:GLN:HG3	2.19	0.42
1:S:581:LEU:HD12	1:S:620:PHE:CE1	2.54	0.42
1:S:1221:ILE:HA	1:S:1224:PHE:O	2.19	0.42
1:S:1729:PHE:HD1	1:S:1735:ARG:HE	1.66	0.42
1:S:1783:ARG:NH1	1:S:1830:HIS:HB2	2.34	0.42
1:S:2451:LEU:HD23	1:S:2498:ILE:HD13	2.00	0.42
1:S:2946:GLU:O	1:S:2949:THR:OG1	2.30	0.42
1:S:3465:PHE:O	1:S:3469:LEU:HG	2.19	0.42
1:S:3834:ALA:HB3	1:S:3835:PRO:HD3	2.01	0.42
1:A:39:GLY:O	1:A:43:VAL:HG13	2.19	0.42
1:A:313:LEU:HA	1:A:316:LEU:HD12	2.01	0.42
1:A:487:LEU:HD13	1:A:575:ILE:HD13	2.02	0.42
1:A:1070:PRO:CG	1:A:3744:ASP:HA	2.49	0.42
1:A:1425:ALA:O	1:A:1428:ILE:HG22	2.19	0.42
1:A:1565:GLU:OE1	1:A:1565:GLU:N	2.30	0.42
1:A:1580:LEU:HD13	1:A:1625:HIS:CD2	2.54	0.42
1:A:1961:PHE:HB2	1:A:1963:GLN:HE22	1.82	0.42
1:A:2223:VAL:HG23	1:A:2234:ASN:HB2	2.02	0.42
1:A:2260:PHE:HA	1:A:2270:ASN:O	2.20	0.42
1:A:2534:ASN:HB3	1:A:2537:ASP:HB2	2.01	0.42
1:A:3050:LYS:O	1:A:3054:GLN:CB	2.68	0.42
1:A:3123:GLN:OE1	1:A:3123:GLN:N	2.39	0.42
1:A:3295:GLU:O	1:A:3299:THR:HG22	2.18	0.42
1:A:3301:LEU:O	1:A:3306:LEU:HD22	2.19	0.42
1:A:3462:ARG:NH1	1:A:3494:GLN:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3490:VAL:HA	1:A:3495:PHE:CE2	2.54	0.42
1:A:3753:LYS:O	1:A:3800:LEU:HD12	2.20	0.42
2:B:339:ARG:HH22	2:B:342:ASP:HA	1.84	0.42
3:C:248:PRO:HA	3:C:261:ILE:O	2.18	0.42
3:C:398:ASP:OD1	3:C:401:ALA:N	2.53	0.42
3:C:522:VAL:HA	3:C:525:LYS:HE2	2.01	0.42
6:I:815:ARG:H	6:I:849:GLY:C	2.22	0.42
3:L:383:ALA:HB1	2:T:463:LYS:HG3	2.00	0.42
3:L:509:GLN:HB2	3:L:512:ILE:HG13	2.01	0.42
5:Q:104:VAL:O	5:Q:104:VAL:HG13	2.20	0.42
6:R:668:SER:O	6:R:703:GLY:N	2.52	0.42
1:S:135:LEU:HB2	1:S:177:LEU:HD21	2.01	0.42
1:S:450:SER:OG	1:S:453:MET:HG3	2.20	0.42
1:S:458:CYS:HA	1:S:461:ILE:HD12	2.01	0.42
1:S:788:TYR:O	1:S:792:ILE:HG13	2.19	0.42
1:S:1400:VAL:HG12	1:S:1404:LYS:NZ	2.34	0.42
1:S:1565:GLU:HG2	1:S:1566:THR:H	1.85	0.42
1:S:1844:VAL:HG23	1:S:1845:VAL:N	2.33	0.42
1:S:2595:TRP:CE3	1:S:2765:GLN:HB3	2.54	0.42
1:S:3314:SER:O	1:S:3317:SER:OG	2.26	0.42
2:T:458:GLN:HB3	2:T:525:PHE:CE2	2.54	0.42
1:A:300:TRP:CE3	1:A:308:LEU:HD21	2.54	0.42
1:A:344:GLN:O	1:A:348:ILE:HG12	2.20	0.42
1:A:571:SER:O	1:A:574:LYS:HG2	2.19	0.42
1:A:705:ALA:O	1:A:709:LYS:HD3	2.19	0.42
1:A:786:GLN:O	1:A:788:TYR:N	2.52	0.42
1:A:910:PHE:O	1:A:914:VAL:HG12	2.20	0.42
1:A:1015:ASP:OD1	1:A:1015:ASP:N	2.49	0.42
1:A:1208:LEU:HA	1:A:1211:VAL:HG12	2.00	0.42
1:A:1597:LEU:O	1:A:1601:LEU:HG	2.20	0.42
1:A:1675:TYR:HA	1:A:1678:LEU:HD12	2.00	0.42
1:A:1803:GLU:HA	1:A:1806:ARG:NH1	2.34	0.42
1:A:2241:LEU:HD12	1:A:2242:VAL:N	2.35	0.42
1:A:2412:TYR:O	1:A:2415:LEU:HG	2.20	0.42
1:A:3448:GLU:OE1	1:A:3485:LYS:HD2	2.20	0.42
1:A:3574:ALA:CB	1:A:3684:SER:HB2	2.42	0.42
1:A:3959:MET:SD	1:A:4124:TRP:NE1	2.92	0.42
3:C:93:ASP:HA	3:C:97:LYS:HG2	2.00	0.42
3:C:114:SER:OG	3:C:132:ILE:HD13	2.19	0.42
3:C:623:PHE:CE1	3:C:632:PHE:HB2	2.55	0.42
3:L:66:ASN:HD21	3:L:74:TYR:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:229:GLU:O	3:L:233:LYS:HG3	2.19	0.42
3:L:599:ARG:O	3:L:603:LYS:NZ	2.46	0.42
5:P:22:VAL:HG22	5:P:24:TRP:HE3	1.85	0.42
1:S:738:HIS:O	1:S:742:GLU:HG3	2.20	0.42
1:S:1597:LEU:O	1:S:1601:LEU:HG	2.19	0.42
1:S:1755:SER:HB2	1:S:1758:LEU:HD12	2.01	0.42
1:S:1950:SER:OG	1:S:1951:VAL:N	2.52	0.42
1:S:2580:PRO:HG2	1:S:2583:GLU:HB2	2.02	0.42
1:S:3877:LYS:HZ2	1:S:3878:VAL:HB	1.84	0.42
1:S:3898:LEU:HA	1:S:3901:ARG:NH2	2.34	0.42
2:T:93:ASP:HA	2:T:103:TYR:HB2	2.02	0.42
1:A:225:LYS:HG2	1:A:274:LEU:HB2	2.01	0.42
1:A:461:ILE:HA	1:A:464:VAL:HG22	2.01	0.42
1:A:1556:GLY:HA2	1:A:1559:PHE:CD2	2.54	0.42
1:A:1632:TRP:C	1:A:1633:TRP:CD1	2.93	0.42
1:A:1756:PRO:O	1:A:1759:LEU:HB2	2.20	0.42
1:A:2258:GLU:HA	1:A:2261:SER:OG	2.20	0.42
1:A:2464:HIS:CE1	1:A:2466:SER:H	2.38	0.42
1:A:2539:LEU:HD11	1:A:2813:PHE:HD1	1.84	0.42
1:A:3359:ILE:HD12	1:A:3362:LEU:HD12	2.02	0.42
1:A:3549:HIS:HA	1:A:3552:LYS:HG2	2.02	0.42
1:A:3568:ILE:O	1:A:3572:ILE:HG12	2.20	0.42
2:B:41:LEU:HD12	2:B:88:TYR:HD1	1.85	0.42
2:B:90:THR:OG1	2:B:136:GLY:O	2.34	0.42
2:B:382:PHE:CE1	2:B:431:GLY:HA2	2.55	0.42
2:B:486:HIS:HA	2:B:489:ASN:ND2	2.35	0.42
2:B:534:TYR:HH	3:C:260:ARG:HH21	1.67	0.42
3:C:20:MET:CB	3:C:31:PHE:HB2	2.44	0.42
4:D:136:GLU:CD	4:M:77:ARG:HH12	2.22	0.42
5:G:169:LYS:O	5:G:172:LEU:HG	2.19	0.42
5:H:28:LEU:HD12	5:H:71:ARG:HA	2.01	0.42
5:H:196:ASN:O	5:H:199:LEU:HG	2.20	0.42
6:I:900:LYS:HE2	6:I:903:LEU:HD23	2.02	0.42
3:L:7:LYS:HB2	3:L:126:LYS:O	2.19	0.42
3:L:182:PRO:HG2	3:L:520:ALA:H	1.84	0.42
3:L:212:MET:HG2	3:L:223:GLU:HG2	2.01	0.42
4:M:191:LYS:HB2	4:M:191:LYS:HE2	1.82	0.42
5:P:28:LEU:HG	5:P:70:LEU:HD23	2.02	0.42
5:P:139:ALA:O	5:P:142:GLU:HG3	2.20	0.42
5:Q:127:ILE:HG13	5:Q:128:CYS:N	2.35	0.42
5:Q:156:ASN:O	5:Q:159:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:876:LYS:HA	6:R:876:LYS:HD3	1.88	0.42
6:R:902:GLU:HG2	6:R:903:LEU:N	2.35	0.42
1:S:118:ASP:O	1:S:122:LYS:HG2	2.20	0.42
1:S:225:LYS:HA	1:S:274:LEU:HD22	2.02	0.42
1:S:898:PHE:H	1:S:902:LYS:HE3	1.84	0.42
1:S:1512:SER:O	1:S:1516:GLU:OE1	2.37	0.42
1:S:1653:LEU:HB3	1:S:1698:PHE:CE2	2.55	0.42
1:S:2120:ARG:HG3	1:S:2121:ASP:N	2.34	0.42
1:S:2219:LEU:O	1:S:2223:VAL:N	2.53	0.42
1:S:2918:PRO:O	1:S:2921:LEU:HB3	2.19	0.42
1:S:3337:ILE:HG21	1:S:3360:LEU:HG	2.02	0.42
1:S:3447:VAL:HG23	1:S:3482:LEU:HD12	2.01	0.42
1:S:4071:ALA:HB1	1:S:4077:TYR:CE2	2.53	0.42
2:T:282:LYS:HE3	2:T:486:HIS:HB3	2.02	0.42
2:T:484:GLN:O	2:T:488:ARG:NH1	2.52	0.42
1:A:582:THR:H	1:A:620:PHE:HZ	1.67	0.42
1:A:1360:LYS:HD2	1:A:1411:TYR:CE2	2.54	0.42
1:A:1784:ARG:HA	1:A:1787:ARG:HG2	2.00	0.42
1:A:2494:ASP:O	1:A:2498:ILE:HG13	2.19	0.42
1:A:2967:GLU:O	1:A:2971:GLN:HG2	2.19	0.42
1:A:3173:MET:HG3	1:A:3174:ASP:N	2.35	0.42
1:A:3486:GLU:HA	1:A:3489:SER:OG	2.19	0.42
1:A:3588:TRP:CZ3	1:A:3592:VAL:HG11	2.55	0.42
1:A:3723:ASP:HB2	1:A:3741:ARG:HB2	2.02	0.42
1:A:3909:ALA:O	1:A:3913:ILE:HG22	2.20	0.42
1:A:3912:CYS:HA	1:A:3915:HIS:CD2	2.55	0.42
1:A:3980:MET:N	1:A:3980:MET:SD	2.92	0.42
2:B:468:LYS:O	2:B:517:ARG:NH1	2.52	0.42
3:C:138:LEU:HB2	3:C:201:GLN:HA	2.02	0.42
3:C:246:HIS:HB3	3:C:264:TYR:CZ	2.54	0.42
3:C:347:LYS:NZ	3:C:388:ASP:HB3	2.35	0.42
3:C:635:SER:O	3:C:639:ILE:HG12	2.19	0.42
5:G:120:ALA:O	5:G:124:ARG:HD3	2.19	0.42
5:G:183:VAL:HG21	5:H:180:PHE:HZ	1.85	0.42
5:H:28:LEU:HD13	5:H:74:LEU:HD12	2.02	0.42
5:H:86:PHE:HE1	5:H:95:PHE:HE1	1.68	0.42
6:I:708:ARG:O	6:I:712:ILE:HG23	2.19	0.42
3:L:268:LEU:HG	3:L:271:ARG:HH12	1.85	0.42
5:Q:108:LEU:H	5:Q:108:LEU:HD23	1.83	0.42
1:S:58:VAL:HG13	1:S:59:PHE:CD1	2.55	0.42
1:S:438:LEU:O	1:S:441:MET:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:528:VAL:HA	1:S:531:PHE:HB2	2.02	0.42
1:S:712:LYS:HE2	1:S:744:ASP:HB3	2.02	0.42
1:S:1142:HIS:O	1:S:1146:ASN:N	2.48	0.42
1:S:1741:ASP:O	1:S:1744:LYS:HG2	2.19	0.42
1:S:1769:GLU:H	1:S:1772:HIS:CE1	2.37	0.42
1:S:2552:VAL:HG13	1:S:2851:PHE:CE1	2.54	0.42
1:S:2597:PHE:HD2	1:S:2765:GLN:HG2	1.83	0.42
1:S:3004:HIS:CD2	1:S:3177:ASN:HD21	2.38	0.42
1:S:3097:ASP:OD1	1:S:3097:ASP:N	2.53	0.42
1:S:3171:ALA:HA	1:S:3179:TRP:CZ2	2.55	0.42
1:S:3300:VAL:HB	1:S:3337:ILE:HD11	2.02	0.42
1:S:4091:ALA:HB2	1:S:4110:GLN:HG2	2.02	0.42
2:T:83:LEU:HB2	2:T:115:ARG:HH12	1.85	0.42
2:T:86:VAL:HA	2:T:104:VAL:HA	2.00	0.42
1:A:152:LEU:O	1:A:156:PHE:CD2	2.73	0.42
1:A:289:ASN:O	1:A:293:LEU:HG	2.20	0.42
1:A:425:ASP:OD1	1:A:425:ASP:N	2.53	0.42
1:A:633:ILE:O	1:A:636:GLU:HG2	2.19	0.42
1:A:643:GLU:O	1:A:646:VAL:HB	2.18	0.42
1:A:660:LEU:HD23	1:A:660:LEU:HA	1.82	0.42
1:A:989:MET:SD	1:A:990:GLN:HG3	2.60	0.42
1:A:1343:GLU:O	1:A:1347:THR:HG23	2.20	0.42
1:A:1801:VAL:HG23	1:A:1824:LEU:HD11	2.02	0.42
1:A:2492:ASP:CG	1:A:2495:SER:H	2.21	0.42
1:A:2510:LEU:HD21	1:A:2525:TRP:HD1	1.85	0.42
1:A:3043:TYR:HA	1:A:3046:ARG:HB2	2.01	0.42
1:A:3334:TYR:CD2	1:A:3380:ARG:HB3	2.55	0.42
1:A:4041:ARG:HD2	1:A:4044:ILE:HD11	2.01	0.42
1:A:4075:ARG:HG2	1:A:4076:ASP:N	2.34	0.42
2:B:126:GLN:O	2:B:130:ARG:HG3	2.20	0.42
2:B:194:ARG:HH12	2:B:220:ILE:C	2.23	0.42
2:B:196:THR:OG1	2:B:198:ILE:HG12	2.20	0.42
2:B:352:PRO:HB2	2:B:355:LEU:HG	2.02	0.42
3:C:20:MET:HB3	3:C:31:PHE:CB	2.44	0.42
3:C:342:VAL:HG23	3:C:393:VAL:HG12	2.01	0.42
3:C:423:GLN:HG2	3:C:424:LEU:N	2.33	0.42
3:C:661:ALA:O	3:C:664:GLU:HG3	2.20	0.42
3:C:665:LYS:O	3:C:668:ILE:HG12	2.20	0.42
4:D:9:CYS:SG	4:D:22:CYS:HB3	2.60	0.42
5:G:28:LEU:HD12	5:G:28:LEU:HA	1.92	0.42
5:G:186:GLU:O	5:G:190:LYS:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:593:ASN:N	3:L:634:LYS:HZ3	2.18	0.42
1:S:243:GLN:O	1:S:282:PHE:HE1	2.02	0.42
1:S:446:PHE:HB3	1:S:527:TYR:CE1	2.54	0.42
1:S:849:GLU:OE1	1:S:849:GLU:N	2.46	0.42
1:S:910:PHE:CZ	1:S:2808:LEU:HD23	2.55	0.42
1:S:2371:PHE:CD2	1:S:2374:LEU:HD23	2.51	0.42
1:S:2970:LYS:NZ	1:S:2974:GLU:HB2	2.35	0.42
1:A:174:VAL:HA	1:A:177:LEU:CD1	2.48	0.42
1:A:1675:TYR:O	1:A:1678:LEU:HB2	2.20	0.42
1:A:2223:VAL:O	1:A:2223:VAL:HG13	2.19	0.42
1:A:2774:SER:OG	1:A:2785:ILE:HG23	2.20	0.42
1:A:2865:HIS:HB2	1:A:2868:LEU:HG	2.01	0.42
1:A:2880:CYS:HB2	1:A:2885:GLN:O	2.20	0.42
1:A:3263:HIS:HB2	1:A:3276:TRP:CZ2	2.55	0.42
1:A:3459:ASN:HA	1:A:3462:ARG:HB2	2.01	0.42
1:A:3515:GLN:HA	1:A:3518:VAL:HG22	2.00	0.42
1:A:4082:ARG:HD2	1:A:4092:GLN:NE2	2.34	0.42
2:B:325:ARG:HB3	3:C:88:PHE:CZ	2.55	0.42
3:C:365:PHE:HZ	3:C:416:TYR:CD2	2.38	0.42
3:C:714:ASP:OD1	3:C:714:ASP:N	2.53	0.42
6:I:731:LYS:HA	6:I:731:LYS:HD3	1.87	0.42
3:L:625:ASP:OD1	1:S:1816:ARG:NH2	2.46	0.42
5:Q:187:LYS:HE2	5:Q:190:LYS:HE3	2.01	0.42
6:R:664:PHE:CD1	6:R:699:CYS:HB2	2.55	0.42
1:S:1006:THR:O	1:S:1009:LEU:HG	2.20	0.42
1:S:1086:TYR:CD1	1:S:1133:HIS:HB3	2.55	0.42
1:S:1708:GLU:HA	1:S:1711:ARG:HH11	1.85	0.42
1:S:1802:TYR:O	1:S:1805:PHE:HB3	2.20	0.42
1:S:1862:THR:OG1	1:S:1863:PHE:N	2.52	0.42
1:S:2803:ILE:O	1:S:2807:GLN:HG2	2.19	0.42
1:S:2938:VAL:O	1:S:2942:ILE:HG12	2.19	0.42
1:S:3048:LYS:HB3	1:S:3061:LEU:HD13	2.00	0.42
1:S:3789:ARG:HH11	1:S:3936:GLY:HA3	1.85	0.42
2:T:413:LEU:HD12	2:T:432:PHE:HB3	2.01	0.42
1:A:851:ILE:HD13	1:A:854:ARG:HH21	1.85	0.41
1:A:912:PRO:O	1:A:915:THR:HB	2.20	0.41
1:A:1365:ASN:HD21	1:A:1370:ARG:NH2	2.12	0.41
1:A:1574:ASN:OD1	1:A:1575:LEU:N	2.52	0.41
1:A:1661:PHE:HE2	1:A:1667:SER:H	1.68	0.41
1:A:1878:ASP:N	1:A:1878:ASP:OD1	2.52	0.41
1:A:3563:ASP:C	1:A:3564:GLN:HG3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3758:LEU:HD13	1:A:3801:GLY:HA3	2.02	0.41
2:B:158:GLN:OE1	2:B:158:GLN:N	2.29	0.41
2:B:339:ARG:HH11	2:B:405:ASN:H	1.66	0.41
2:B:530:TYR:CD1	3:C:372:ALA:HB1	2.56	0.41
3:C:280:ASP:OD1	3:C:281:ALA:N	2.53	0.41
4:D:39:LEU:HD23	4:D:109:LEU:HD11	2.02	0.41
6:I:801:TYR:HB3	6:I:802:ARG:HH21	1.85	0.41
3:L:40:MET:SD	3:L:41:PHE:N	2.93	0.41
3:L:502:ARG:H	3:L:502:ARG:HD3	1.85	0.41
1:S:988:VAL:O	1:S:992:ILE:HG13	2.20	0.41
1:S:2173:ALA:HB1	1:S:2214:ARG:HH22	1.84	0.41
1:S:2212:ALA:O	1:S:2215:LEU:HG	2.20	0.41
1:S:2500:LYS:HA	1:S:2503:LYS:NZ	2.35	0.41
1:S:2507:ILE:O	1:S:2510:LEU:HB2	2.20	0.41
1:S:3180:ASP:O	1:S:3184:THR:HG22	2.20	0.41
1:S:3838:GLU:HG2	1:S:4122:GLU:HB2	2.02	0.41
1:S:4049:ARG:NH2	1:S:4055:ASN:H	2.18	0.41
2:T:74:LYS:HZ1	2:T:81:ASP:C	2.20	0.41
1:A:334:HIS:CE1	1:A:335:LYS:HZ2	2.38	0.41
1:A:479:ILE:O	1:A:483:VAL:HG22	2.21	0.41
1:A:849:GLU:HG2	1:A:850:GLU:N	2.34	0.41
1:A:855:VAL:O	1:A:859:LEU:HG	2.20	0.41
1:A:1459:HIS:ND1	1:A:1464:LEU:HD21	2.35	0.41
1:A:1619:ALA:HA	1:A:1622:ILE:HG22	2.01	0.41
1:A:2295:GLN:HE21	1:A:2298:GLU:CD	2.23	0.41
1:A:2804:ILE:O	1:A:2808:LEU:HG	2.20	0.41
1:A:3257:LYS:HD2	1:A:3257:LYS:HA	1.88	0.41
1:A:3373:VAL:O	1:A:3377:LEU:HG	2.20	0.41
2:B:261:LEU:HD12	2:B:345:LEU:HB3	2.02	0.41
2:B:272:GLY:N	2:B:369:TYR:O	2.50	0.41
2:B:318:ARG:HH21	2:B:330:GLU:CA	2.33	0.41
3:C:132:ILE:HG23	3:C:161:LEU:HB2	2.00	0.41
3:C:281:ALA:HB3	3:C:282:LYS:NZ	2.35	0.41
3:C:620:ILE:HD13	3:C:639:ILE:HD11	2.02	0.41
3:C:665:LYS:HD2	3:C:668:ILE:HD11	2.02	0.41
6:I:786:GLU:H	6:I:787:GLN:NE2	2.19	0.41
3:L:71:GLY:C	3:L:73:GLN:H	2.23	0.41
3:L:660:LYS:NZ	3:L:698:ALA:HB1	2.35	0.41
1:S:103:TYR:HA	1:S:106:GLU:HG2	2.02	0.41
1:S:386:VAL:HG13	1:S:431:TYR:OH	2.20	0.41
1:S:1066:LEU:HD11	1:S:1078:ALA:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1075:ARG:HH21	1:S:1113:LEU:HD21	1.84	0.41
1:S:1195:VAL:HB	1:S:1203:SER:HB2	2.02	0.41
1:S:1275:THR:HG23	1:S:1276:VAL:HG23	2.02	0.41
1:S:1418:HIS:O	1:S:1422:LYS:HG2	2.21	0.41
1:S:2138:VAL:HG13	1:S:2143:ARG:CG	2.51	0.41
1:S:2345:VAL:O	1:S:2349:LEU:HG	2.21	0.41
1:S:2835:LYS:HA	1:S:2835:LYS:HD3	1.79	0.41
1:S:3114:TYR:HD2	1:S:3128:LYS:HG2	1.86	0.41
1:S:3257:LYS:O	1:S:3261:GLU:HG2	2.20	0.41
1:S:3767:LEU:HD21	1:S:4001:THR:OG1	2.20	0.41
2:T:41:LEU:HD11	2:T:88:TYR:CD2	2.55	0.41
2:T:64:ILE:O	2:T:68:GLN:HG2	2.20	0.41
2:T:168:LEU:HD21	2:T:202:LEU:HA	2.01	0.41
2:T:240:GLU:H	2:T:240:GLU:CD	2.24	0.41
2:T:275:ASN:HB3	2:T:366:LEU:CD1	2.50	0.41
1:A:168:ASP:H	1:A:171:LEU:HD12	1.84	0.41
1:A:1718:ILE:HA	1:A:1721:HIS:ND1	2.34	0.41
1:A:1801:VAL:O	1:A:1804:MET:HG3	2.20	0.41
1:A:2225:HIS:HB2	1:A:2231:PHE:HB2	2.01	0.41
1:A:2405:VAL:O	1:A:2408:MET:HG2	2.20	0.41
1:A:2481:HIS:CD2	1:A:2524:PHE:HZ	2.37	0.41
1:A:2531:LEU:HD23	1:A:2531:LEU:HA	1.89	0.41
1:A:2897:LEU:HD21	1:A:2923:TRP:CD2	2.55	0.41
1:A:3135:LEU:O	1:A:3138:ILE:HG12	2.20	0.41
1:A:3384:HIS:HA	1:A:3387:GLU:HG2	2.02	0.41
1:A:3483:MET:SD	1:A:3511:ALA:HB3	2.60	0.41
1:A:3829:LEU:O	1:A:3833:ARG:HB3	2.20	0.41
1:A:3980:MET:SD	1:A:3981:TYR:N	2.93	0.41
2:B:95:ASN:HD21	2:B:99:PHE:H	1.67	0.41
3:C:27:ILE:HG12	3:C:183:PHE:CD2	2.55	0.41
3:C:497:ARG:NH2	3:C:503:GLU:O	2.53	0.41
6:I:749:SER:O	6:I:752:GLU:HG3	2.20	0.41
3:L:115:MET:SD	3:L:153:SER:HB3	2.61	0.41
3:L:619:HIS:CD2	3:L:635:SER:HA	2.55	0.41
3:L:629:THR:O	3:L:633:MET:HG2	2.20	0.41
6:R:753:HIS:HA	6:R:756:ARG:NE	2.35	0.41
1:S:89:LEU:C	1:S:133:LYS:HZ1	2.24	0.41
1:S:643:GLU:O	1:S:646:VAL:HG22	2.19	0.41
1:S:786:GLN:N	1:S:787:PRO:HD2	2.35	0.41
1:S:955:ALA:N	1:S:1003:SER:OG	2.53	0.41
1:S:976:VAL:HG22	1:S:2598:ARG:NH2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1849:ASP:OD1	1:S:1849:ASP:N	2.54	0.41
1:S:2158:ARG:HA	1:S:2158:ARG:HD2	1.90	0.41
1:S:2318:ALA:O	1:S:2321:GLU:HB2	2.19	0.41
1:S:2339:GLU:O	1:S:2343:GLU:HG2	2.20	0.41
1:S:3548:GLY:O	1:S:3552:LYS:HG2	2.19	0.41
1:S:3946:PHE:CD1	1:S:4043:LYS:HB3	2.55	0.41
2:T:62:MET:HA	2:T:65:GLN:NE2	2.35	0.41
2:T:109:ASP:OD2	2:T:115:ARG:HD2	2.20	0.41
2:T:142:SER:HA	2:T:182:LYS:HD2	2.02	0.41
1:A:217:LEU:HG	1:A:217:LEU:O	2.20	0.41
1:A:241:ASP:O	1:A:244:THR:N	2.54	0.41
1:A:386:VAL:HG13	1:A:431:TYR:OH	2.19	0.41
1:A:491:CYS:HB2	1:A:622:ALA:HB1	2.02	0.41
1:A:697:ASP:CG	1:A:699:GLU:HG2	2.40	0.41
1:A:888:ARG:HH21	1:A:3889:ARG:HB3	1.85	0.41
1:A:959:TYR:O	1:A:962:TYR:HB2	2.20	0.41
1:A:1121:LEU:HG	1:A:1123:THR:H	1.84	0.41
1:A:1389:VAL:HG22	1:A:1392:MET:HE3	2.02	0.41
1:A:1781:SER:HA	1:A:1784:ARG:CZ	2.50	0.41
1:A:1816:ARG:HD3	1:A:1819:PHE:CE2	2.55	0.41
1:A:2276:LEU:HA	1:A:2279:ILE:HD13	2.01	0.41
1:A:2356:MET:SD	1:A:2359:LYS:HG2	2.60	0.41
1:A:2771:LEU:HD23	1:A:2771:LEU:H	1.85	0.41
1:A:2840:PHE:HA	1:A:2843:PHE:CD2	2.55	0.41
1:A:3003:ASN:HD22	1:A:3011:LEU:HD22	1.86	0.41
1:A:3680:LEU:HD12	1:A:3724:GLU:HB3	2.02	0.41
1:A:3813:LYS:HG2	1:A:3925:LEU:HD23	2.02	0.41
2:B:325:ARG:HD3	3:C:88:PHE:CE2	2.55	0.41
3:C:59:PHE:HB3	3:C:77:ILE:HG12	2.02	0.41
3:C:492:GLN:HE22	3:C:507:PRO:C	2.22	0.41
5:G:13:GLU:OE2	5:G:90:LYS:NZ	2.40	0.41
5:H:115:LYS:HD2	5:H:115:LYS:HA	1.79	0.41
6:I:773:GLN:HA	6:I:776:GLU:HG3	2.01	0.41
3:L:663:GLN:CG	3:L:702:LYS:HG2	2.50	0.41
5:P:174:THR:O	5:P:178:LYS:HG2	2.20	0.41
5:Q:184:LEU:O	5:Q:188:LYS:HG2	2.19	0.41
1:S:74:ASN:HA	1:S:122:LYS:HD3	2.01	0.41
1:S:87:LYS:NZ	1:S:829:VAL:O	2.54	0.41
1:S:418:ALA:HB2	1:S:464:VAL:CG1	2.50	0.41
1:S:525:LYS:HE2	1:S:525:LYS:HB2	1.79	0.41
1:S:879:MET:HG3	1:S:881:LYS:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:1443:VAL:O	1:S:1447:ARG:HG2	2.20	0.41
1:S:1513:GLY:HA2	1:S:1516:GLU:CD	2.40	0.41
1:S:1867:ILE:HG22	1:S:1871:MET:HE1	2.02	0.41
1:S:2587:GLN:HG3	1:S:2777:HIS:O	2.20	0.41
1:S:2916:LEU:HA	1:S:2917:PRO:HD3	1.93	0.41
1:S:3077:ILE:HG13	1:S:3078:LEU:N	2.35	0.41
1:S:3090:TYR:HB3	1:S:3095:ASP:HB2	2.02	0.41
1:S:3188:PHE:CZ	1:S:3192:LYS:HE3	2.55	0.41
1:S:3243:ILE:HG23	1:S:3283:LEU:HD22	2.02	0.41
1:S:3420:CYS:SG	1:S:3446:VAL:HG21	2.60	0.41
1:S:3626:GLY:H	1:S:3630:ARG:HH22	1.67	0.41
1:S:3886:ALA:HA	1:S:3889:ARG:HG2	2.02	0.41
1:A:313:LEU:O	1:A:316:LEU:HB2	2.21	0.41
1:A:348:ILE:HG21	1:A:362:ALA:HB2	2.02	0.41
1:A:407:VAL:HB	1:A:410:MET:HE1	2.02	0.41
1:A:414:LEU:HA	1:A:417:VAL:HG22	2.03	0.41
1:A:789:TYR:HA	1:A:792:ILE:HD12	2.02	0.41
1:A:917:LEU:CD1	1:A:2804:ILE:HD11	2.50	0.41
1:A:983:LEU:C	1:A:986:PRO:HD2	2.41	0.41
1:A:1011:GLU:HA	1:A:1014:LEU:HG	2.03	0.41
1:A:1102:GLU:CD	1:A:1102:GLU:H	2.24	0.41
1:A:1264:LEU:HD23	1:A:1340:ARG:HB3	2.02	0.41
1:A:1358:LEU:O	1:A:1361:LYS:HB3	2.21	0.41
1:A:1605:PHE:HB2	1:A:1655:ILE:HD11	2.02	0.41
1:A:1674:THR:O	1:A:1678:LEU:HG	2.19	0.41
1:A:1713:VAL:HA	1:A:1716:GLN:OE1	2.19	0.41
1:A:2346:ALA:O	1:A:2350:LYS:HG2	2.20	0.41
1:A:2928:LYS:HA	1:A:2931:ARG:NE	2.36	0.41
1:A:2959:ALA:HB1	1:A:2964:ASP:HB3	2.01	0.41
1:A:3049:LEU:HD21	1:A:3088:LEU:HB2	2.03	0.41
1:A:3161:LEU:HB2	1:A:3186:ARG:HH12	1.86	0.41
1:A:3507:ASP:OD1	1:A:3539:SER:HB2	2.20	0.41
1:A:3923:ARG:NH1	1:A:4124:TRP:HB2	2.36	0.41
1:A:4104:VAL:O	1:A:4108:MET:HE2	2.20	0.41
2:B:41:LEU:O	2:B:169:PHE:N	2.54	0.41
2:B:106:GLN:OE1	2:B:115:ARG:HB3	2.20	0.41
2:B:284:PRO:O	2:B:286:ILE:HD12	2.21	0.41
2:B:353:LEU:HD12	2:B:393:GLU:HG2	2.02	0.41
2:B:362:LEU:HD12	2:B:362:LEU:HA	1.92	0.41
3:C:234:LEU:HD11	3:C:488:GLN:HE22	1.85	0.41
3:L:57:VAL:CG2	3:L:114:SER:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:182:PRO:O	3:L:189:GLY:HA3	2.20	0.41
5:Q:51:GLU:HA	5:Q:54:GLN:NE2	2.36	0.41
1:S:87:LYS:HD3	1:S:831:LEU:HB2	2.01	0.41
1:S:244:THR:HA	1:S:247:GLU:HB2	2.01	0.41
1:S:428:PRO:HG2	1:S:431:TYR:CE2	2.55	0.41
1:S:435:LEU:HD12	1:S:436:GLU:N	2.35	0.41
1:S:535:LEU:HB3	1:S:637:LYS:NZ	2.35	0.41
1:S:611:ASN:OD1	1:S:612:LEU:N	2.54	0.41
1:S:786:GLN:O	1:S:786:GLN:NE2	2.54	0.41
1:S:1649:LEU:HA	1:S:1652:ILE:HD12	2.03	0.41
1:S:1736:PHE:O	1:S:1740:VAL:HG13	2.20	0.41
1:S:1737:ASN:O	1:S:1740:VAL:HG22	2.20	0.41
1:S:1750:LEU:HA	1:S:1753:SER:OG	2.20	0.41
1:S:1959:LEU:HD23	1:S:1959:LEU:H	1.85	0.41
1:S:2044:ASP:O	1:S:2048:GLY:N	2.54	0.41
1:S:2206:PRO:O	1:S:2210:VAL:HG23	2.19	0.41
1:A:300:TRP:HA	1:A:303:HIS:ND1	2.36	0.41
1:A:306:VAL:HG12	1:A:309:LYS:HZ3	1.84	0.41
1:A:611:ASN:CG	1:A:612:LEU:H	2.22	0.41
1:A:1003:SER:H	1:A:1006:THR:HG23	1.86	0.41
1:A:1008:ALA:HA	1:A:1011:GLU:OE2	2.20	0.41
1:A:1093:GLU:OE1	1:A:1093:GLU:N	2.50	0.41
1:A:1323:SER:N	1:A:1328:GLU:OE2	2.53	0.41
1:A:2279:ILE:O	1:A:2283:ASN:ND2	2.54	0.41
1:A:3631:LYS:HA	1:A:3634:GLN:NE2	2.32	0.41
1:A:4102:THR:HA	1:A:4105:LYS:CE	2.50	0.41
2:B:207:LYS:O	2:B:233:PHE:HB2	2.21	0.41
2:B:366:LEU:N	2:B:434:LEU:O	2.44	0.41
3:C:42:VAL:O	3:C:46:VAL:HG23	2.21	0.41
4:D:135:LEU:HD22	4:M:132:VAL:HG23	2.02	0.41
3:L:475:ASP:O	3:L:478:PRO:HD3	2.20	0.41
1:S:83:GLU:OE1	1:S:126:PRO:HD3	2.21	0.41
1:S:1480:GLY:HA3	1:S:1527:ARG:NH1	2.35	0.41
1:S:1506:SER:HA	1:S:1509:GLN:HE21	1.85	0.41
1:S:1779:GLN:O	1:S:1783:ARG:HG2	2.20	0.41
1:S:1959:LEU:HD12	1:S:2123:PRO:HG2	2.02	0.41
1:S:2101:VAL:O	1:S:2104:MET:HG3	2.20	0.41
1:S:2986:PRO:HG2	1:S:2991:LYS:HZ2	1.85	0.41
1:S:3246:ALA:O	1:S:3250:ASN:N	2.54	0.41
2:T:38:LEU:HB2	2:T:83:LEU:HD22	2.02	0.41
1:A:164:LYS:NZ	2:B:300:THR:O	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1695:LEU:HD12	1:A:1698:PHE:CD1	2.54	0.41
1:A:1751:GLU:HG2	1:A:1784:ARG:HE	1.84	0.41
1:A:1754:GLN:OE1	1:A:1788:ARG:HB2	2.20	0.41
1:A:1769:GLU:HB2	1:A:1772:HIS:CG	2.56	0.41
1:A:2140:LEU:HA	1:A:2143:ARG:HB2	2.03	0.41
1:A:2154:GLU:HA	1:A:2157:PHE:CZ	2.55	0.41
1:A:2253:TYR:CE1	1:A:2288:TYR:HA	2.56	0.41
1:A:3041:LEU:N	1:A:3042:PRO:HD2	2.36	0.41
1:A:3589:SER:OG	1:A:3593:ARG:NH2	2.53	0.41
1:A:3730:ALA:HA	1:A:3734:ARG:HA	2.01	0.41
1:A:3742:GLY:HA2	1:A:3748:HIS:NE2	2.34	0.41
1:A:3901:ARG:HD2	1:A:3970:LEU:O	2.21	0.41
2:B:363:ARG:HB3	3:C:359:ASN:ND2	2.35	0.41
2:B:471:PHE:HD1	4:D:200:ASP:OD1	2.04	0.41
6:I:883:LYS:HE2	6:I:883:LYS:HB2	1.86	0.41
3:L:325:LYS:HZ3	3:L:329:GLU:HB3	1.85	0.41
3:L:411:HIS:CD2	2:T:359:HIS:HB3	2.56	0.41
4:M:79:ALA:O	4:M:83:GLN:N	2.54	0.41
6:R:831:THR:O	6:R:831:THR:HG23	2.21	0.41
1:S:80:GLU:HA	1:S:83:GLU:CD	2.41	0.41
1:S:128:LEU:HD23	1:S:171:LEU:HD23	2.03	0.41
1:S:206:THR:HG22	1:S:212:VAL:HG11	2.03	0.41
1:S:1468:LEU:HD11	1:S:1471:GLN:HE21	1.86	0.41
1:S:1633:TRP:CE3	1:S:1674:THR:HG23	2.55	0.41
1:S:1714:LEU:O	1:S:1718:ILE:HG12	2.21	0.41
1:S:1816:ARG:HD3	1:S:1819:PHE:CE2	2.56	0.41
1:S:2786:LYS:O	1:S:2790:LEU:HG	2.20	0.41
1:S:2926:LEU:O	1:S:2930:TYR:N	2.42	0.41
1:S:2978:LYS:NZ	1:S:2980:ASP:O	2.46	0.41
1:S:3125:ARG:O	1:S:3129:LEU:HG	2.20	0.41
1:S:3239:LYS:O	1:S:3243:ILE:HG13	2.21	0.41
1:S:3371:GLU:HB2	1:S:3372:LYS:NZ	2.35	0.41
1:S:3411:ASP:O	1:S:3415:THR:HG23	2.21	0.41
1:S:4095:GLU:O	1:S:4098:LEU:HB3	2.20	0.41
2:T:365:SER:HA	2:T:436:PHE:HE1	1.85	0.41
1:A:104:SER:O	1:A:108:LYS:HB3	2.21	0.41
1:A:204:LEU:HD21	1:A:224:LEU:CD2	2.50	0.41
1:A:333:MET:O	1:A:337:LYS:HB2	2.20	0.41
1:A:663:ILE:HB	1:A:666:PHE:CD2	2.54	0.41
1:A:697:ASP:HB3	1:A:700:LYS:HG3	2.02	0.41
1:A:746:ARG:O	1:A:749:VAL:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:950:GLU:O	1:A:956:PRO:HD2	2.21	0.41
1:A:963:LYS:HG2	1:A:1007:VAL:HG13	2.02	0.41
1:A:1871:MET:HE1	1:A:1940:TYR:HA	2.03	0.41
1:A:2295:GLN:OE1	1:A:2295:GLN:N	2.54	0.41
1:A:2392:VAL:HA	1:A:2431:ARG:HH22	1.86	0.41
1:A:2398:LEU:O	1:A:2402:LEU:N	2.48	0.41
1:A:2986:PRO:HG3	1:A:2994:TRP:CH2	2.56	0.41
1:A:3247:ARG:HH12	1:A:3248:LYS:HG2	1.86	0.41
1:A:3677:PRO:HB2	1:A:3682:GLU:HG2	2.02	0.41
1:A:3692:VAL:HB	1:A:3721:GLY:H	1.86	0.41
1:A:3821:SER:OG	1:A:3824:GLU:HB3	2.20	0.41
1:A:4039:TYR:HB2	1:A:4042:GLN:HE22	1.85	0.41
3:C:533:ILE:HG23	3:C:537:PHE:CD2	2.56	0.41
3:C:642:PHE:HD2	3:C:655:PHE:HE2	1.67	0.41
5:G:187:LYS:HD2	5:G:190:LYS:HE2	2.02	0.41
6:I:841:LYS:HZ3	6:I:866:GLY:HA3	1.85	0.41
3:L:59:PHE:HB3	3:L:110:ALA:HB2	2.02	0.41
6:R:884:ARG:HD3	6:R:884:ARG:HA	1.95	0.41
1:S:410:MET:N	1:S:411:PRO:HD2	2.36	0.41
1:S:1096:VAL:HG21	1:S:1141:LYS:HE3	2.03	0.41
1:S:1184:ARG:NH2	1:S:1265:GLU:HB3	2.35	0.41
1:S:1762:MET:HA	1:S:1765:VAL:HG12	2.02	0.41
1:S:1783:ARG:HA	1:S:1783:ARG:HD2	1.87	0.41
1:S:2574:ASN:HA	1:S:2575:PRO:HD3	1.96	0.41
1:S:3034:PRO:O	1:S:3038:GLU:HG3	2.20	0.41
2:T:259:LEU:HD13	2:T:273:ILE:HD13	2.03	0.41
1:A:152:LEU:O	1:A:155:LYS:HG2	2.20	0.41
1:A:183:GLU:C	1:A:185:HIS:HD1	2.24	0.41
1:A:411:PRO:HB2	1:A:456:VAL:HG12	2.03	0.41
1:A:479:ILE:HA	1:A:482:VAL:HG22	2.03	0.41
1:A:730:LEU:HA	1:A:733:LEU:HB2	2.02	0.41
1:A:767:GLU:OE2	1:A:771:ASN:ND2	2.39	0.41
1:A:1183:CYS:O	1:A:1186:LYS:HG2	2.20	0.41
1:A:1570:GLU:HA	1:A:1573:LYS:HE2	2.02	0.41
1:A:2225:HIS:N	1:A:2231:PHE:HB2	2.36	0.41
1:A:2229:ALA:C	1:A:2731:ARG:HH21	2.21	0.41
1:A:2259:LYS:C	1:A:2273:GLY:HA3	2.41	0.41
1:A:2399:GLU:HA	1:A:2402:LEU:CD1	2.49	0.41
1:A:2796:ALA:O	1:A:2800:ARG:HG2	2.20	0.41
1:A:2886:GLN:O	1:A:2890:ILE:HG13	2.21	0.41
1:A:3326:GLN:O	1:A:3329:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3692:VAL:HA	1:A:3696:ARG:HH22	1.86	0.41
1:A:4095:GLU:O	1:A:4098:LEU:HB3	2.20	0.41
2:B:106:GLN:NE2	2:B:118:GLU:OE1	2.54	0.41
2:B:260:LYS:HB2	2:B:262:LYS:HZ1	1.85	0.41
2:B:299:LYS:O	3:C:294:VAL:N	2.44	0.41
2:B:325:ARG:NE	3:C:498:ALA:HA	2.36	0.41
2:B:383:SER:HB3	3:C:438:LEU:HD11	2.02	0.41
2:B:426:GLN:HB2	3:C:434:MET:CE	2.51	0.41
2:B:477:SER:HB3	4:D:198:GLY:N	2.30	0.41
2:B:477:SER:HA	4:D:196:ALA:HA	2.02	0.41
2:B:492:ALA:O	2:B:496:ASP:N	2.54	0.41
3:C:12:LEU:N	3:C:55:ALA:O	2.52	0.41
3:C:247:TRP:CE2	3:C:338:LYS:HE3	2.56	0.41
3:C:340:PHE:HD1	3:C:395:TYR:HA	1.86	0.41
4:D:114:GLY:N	4:D:115:PRO:HD2	2.36	0.41
5:G:131:LEU:HD11	5:H:19:PHE:CE1	2.56	0.41
3:L:202:LYS:O	3:L:206:GLU:HG2	2.20	0.41
3:L:291:LYS:HB3	3:L:291:LYS:HE3	1.93	0.41
3:L:353:ARG:NH2	2:T:361:TYR:HB2	2.36	0.41
3:L:492:GLN:O	3:L:495:LEU:HG	2.21	0.41
3:L:599:ARG:O	3:L:603:LYS:HG2	2.21	0.41
5:Q:69:GLU:HA	5:Q:72:LYS:HG2	2.03	0.41
1:S:36:ARG:HE	1:S:40:GLN:HG2	1.86	0.41
1:S:166:ILE:N	1:S:167:PRO:HD3	2.35	0.41
1:S:484:HIS:O	1:S:488:ILE:HG13	2.21	0.41
1:S:625:ASN:HA	1:S:628:GLU:HG2	2.03	0.41
1:S:727:ALA:O	1:S:730:LEU:HG	2.21	0.41
1:S:1020:PRO:HA	1:S:1073:PHE:CZ	2.55	0.41
1:S:1137:ILE:HA	1:S:1140:LYS:HE2	2.03	0.41
1:S:1630:ASP:HA	1:S:1633:TRP:HE1	1.85	0.41
1:S:1630:ASP:HA	1:S:1633:TRP:NE1	2.35	0.41
1:S:1682:THR:HA	1:S:1689:LYS:NZ	2.36	0.41
1:S:1751:GLU:HG3	1:S:1785:ILE:HG23	2.03	0.41
1:S:1935:GLU:OE1	1:S:1935:GLU:N	2.54	0.41
1:S:2143:ARG:HH22	1:S:2175:GLU:CD	2.22	0.41
1:S:2246:LYS:HD3	1:S:2285:LEU:HD21	2.03	0.41
1:S:2531:LEU:HD23	1:S:2531:LEU:HA	1.92	0.41
1:S:2931:ARG:HH22	1:S:2996:LEU:HD13	1.86	0.41
1:S:2943:PHE:CE2	1:S:2947:ILE:HG22	2.55	0.41
1:S:3012:GLU:O	1:S:3016:THR:HG23	2.21	0.41
1:S:3013:TYR:HA	1:S:3016:THR:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3091:LEU:HD21	1:S:3142:ILE:HG12	2.03	0.41
1:S:3259:LEU:HD21	1:S:3283:LEU:HD23	2.03	0.41
1:S:3266:SER:CB	1:S:3273:LEU:HA	2.50	0.41
1:S:3371:GLU:O	1:S:3374:ILE:HG12	2.21	0.41
1:S:3462:ARG:NE	1:S:3494:GLN:HB2	2.36	0.41
1:S:3551:ASN:O	1:S:3555:VAL:HG22	2.21	0.41
1:S:3741:ARG:CZ	1:S:3747:GLU:HB3	2.51	0.41
1:S:3772:ASN:HB3	1:S:3787:GLN:HE22	1.86	0.41
1:S:4055:ASN:ND2	1:S:4058:VAL:HG23	2.36	0.41
1:S:4062:ASP:OD1	1:S:4063:GLU:N	2.53	0.41
1:S:4109:ASP:O	1:S:4114:PRO:HD3	2.20	0.41
2:T:69:SER:HB2	2:T:245:LYS:HD2	2.03	0.41
2:T:92:LYS:HD2	2:T:135:MET:HA	2.01	0.41
2:T:160:LYS:HD2	2:T:161:MET:H	1.86	0.41
1:A:24:ARG:NH1	1:A:25:CYS:HB3	2.36	0.41
1:A:85:ILE:O	1:A:89:LEU:HG	2.20	0.41
1:A:194:GLU:HA	1:A:197:PHE:CD2	2.55	0.41
1:A:452:LYS:O	1:A:456:VAL:HG23	2.20	0.41
1:A:699:GLU:O	1:A:702:SER:OG	2.30	0.41
1:A:943:GLY:HA3	1:A:2783:ILE:HD13	2.03	0.41
1:A:1465:HIS:HA	1:A:1468:LEU:O	2.20	0.41
1:A:1563:PHE:HB3	1:A:1566:THR:OG1	2.21	0.41
1:A:1766:LEU:O	1:A:1772:HIS:HE1	2.04	0.41
1:A:1829:TRP:CE3	1:A:1829:TRP:HA	2.55	0.41
1:A:2809:PHE:HA	1:A:2812:LEU:HG	2.03	0.41
1:A:3466:PRO:O	1:A:3470:GLN:HG2	2.21	0.41
1:A:3502:MET:HA	1:A:3505:LEU:HB2	2.02	0.41
1:A:3962:ARG:HE	1:A:3962:ARG:HB3	1.63	0.41
1:A:4082:ARG:O	1:A:4110:GLN:HB2	2.21	0.41
2:B:318:ARG:HD3	2:B:318:ARG:N	2.36	0.41
2:B:480:ASN:ND2	3:C:402:ASN:HD21	2.18	0.41
2:B:487:PHE:O	2:B:488:ARG:C	2.60	0.41
6:I:700:VAL:O	6:I:721:VAL:HG12	2.21	0.41
1:S:42:CYS:HA	1:S:88:PHE:CE1	2.56	0.41
1:S:566:ASP:O	1:S:570:LYS:HG3	2.20	0.41
1:S:657:SER:HA	1:S:666:PHE:CD2	2.56	0.41
1:S:759:GLY:HA3	1:S:766:ALA:HB2	2.02	0.41
1:S:1057:LYS:HG2	1:S:1099:PHE:CE2	2.56	0.41
1:S:1921:ASP:OD1	1:S:1922:ALA:N	2.53	0.41
1:S:2436:LEU:CD2	1:S:2472:GLN:HB3	2.39	0.41
1:S:3240:MET:HG2	1:S:3272:TRP:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:3364:GLY:HA2	1:S:3376:GLY:HA3	2.02	0.41
1:S:3530:VAL:HG12	1:S:3562:LEU:HB3	2.03	0.41
1:S:3923:ARG:O	1:S:3962:ARG:NE	2.54	0.41
1:S:3956:PRO:HD2	1:S:4121:TRP:CE3	2.56	0.41
1:S:4098:LEU:HD23	1:S:4098:LEU:H	1.86	0.41
1:A:117:LYS:O	1:A:120:ALA:N	2.38	0.40
1:A:475:LEU:HD12	1:A:476:ARG:N	2.35	0.40
1:A:714:VAL:HG23	1:A:733:LEU:HD11	2.04	0.40
1:A:1388:ASP:N	1:A:1392:MET:HE1	2.36	0.40
1:A:1416:GLU:HG3	1:A:1420:ARG:HH22	1.84	0.40
1:A:1538:LEU:HB3	1:A:1553:PHE:CE2	2.56	0.40
1:A:1769:GLU:O	1:A:1822:ARG:NH1	2.50	0.40
1:A:2158:ARG:C	1:A:2160:TYR:H	2.24	0.40
1:A:3141:PHE:HA	1:A:3144:PHE:CZ	2.56	0.40
1:A:3582:GLU:HG2	1:A:3668:LEU:HD12	2.03	0.40
1:A:3583:LEU:HB3	1:A:3733:ARG:CZ	2.51	0.40
1:A:3733:ARG:HB3	1:A:3754:GLY:HA3	2.01	0.40
1:A:3736:LYS:O	1:A:3751:LEU:HA	2.21	0.40
1:A:3812:LEU:CB	1:A:3925:LEU:HD21	2.49	0.40
1:A:3870:SER:HA	1:A:3873:LYS:HE2	2.03	0.40
1:A:4040:PRO:O	1:A:4044:ILE:HG23	2.21	0.40
2:B:118:GLU:O	2:B:121:GLN:HG2	2.21	0.40
3:C:336:GLU:HB2	3:C:339:CYS:SG	2.61	0.40
4:D:194:LYS:HE3	4:D:195:PRO:O	2.21	0.40
5:H:197:LYS:HA	5:H:200:ASN:HD21	1.86	0.40
6:R:801:TYR:HB2	6:R:802:ARG:HH11	1.87	0.40
1:S:434:VAL:O	1:S:438:LEU:N	2.49	0.40
1:S:943:GLY:O	1:S:947:GLN:HB2	2.21	0.40
1:S:1334:LYS:NZ	1:S:1382:ILE:O	2.41	0.40
1:S:1923:PHE:HD1	1:S:1941:HIS:HB3	1.86	0.40
1:S:2404:ARG:HB3	1:S:2407:GLY:HA3	2.02	0.40
1:S:2928:LYS:HA	1:S:2931:ARG:HE	1.85	0.40
1:S:2950:LYS:NZ	1:S:2983:ASP:OD2	2.49	0.40
1:S:3107:ILE:CG1	1:S:3135:LEU:HD11	2.51	0.40
1:S:3644:PHE:CZ	1:S:3660:ASN:HA	2.56	0.40
1:S:3763:ARG:O	1:S:3767:LEU:HG	2.21	0.40
1:S:3946:PHE:CZ	1:S:4047:ALA:HB2	2.56	0.40
1:A:1819:PHE:HZ	3:C:625:ASP:HB3	1.86	0.40
1:A:1881:TYR:HB2	1:A:1950:SER:HB2	2.03	0.40
1:A:2376:ASP:HB3	1:A:2404:ARG:NH2	2.35	0.40
1:A:3492:CYS:HB2	1:A:3709:GLY:CA	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3967:PHE:O	1:A:3970:LEU:HD22	2.22	0.40
1:A:4006:VAL:HB	1:A:4009:PRO:HD3	2.03	0.40
1:A:4055:ASN:ND2	1:A:4057:ALA:HB3	2.36	0.40
2:B:207:LYS:NZ	2:B:210:GLY:O	2.52	0.40
2:B:304:ASN:N	2:B:311:LEU:HG	2.36	0.40
2:B:346:MET:O	2:B:399:ARG:N	2.32	0.40
2:B:363:ARG:HA	3:C:359:ASN:HA	2.03	0.40
3:C:88:PHE:HA	3:C:91:LEU:HD12	2.03	0.40
3:C:510:GLN:NE2	3:C:513:TRP:HB2	2.36	0.40
3:C:653:GLN:CD	3:C:653:GLN:H	2.25	0.40
5:H:72:LYS:HD3	5:H:72:LYS:HA	1.79	0.40
6:I:864:ILE:HA	6:I:889:LEU:HD13	2.03	0.40
3:L:122:THR:HA	3:L:127:PHE:CE2	2.56	0.40
3:L:234:LEU:C	3:L:236:VAL:N	2.73	0.40
3:L:274:LYS:O	2:T:320:GLN:NE2	2.55	0.40
3:L:383:ALA:HB3	2:T:462:MET:CE	2.51	0.40
1:S:201:LEU:HD22	1:S:249:PHE:CE2	2.56	0.40
1:S:288:ASP:OD1	1:S:288:ASP:N	2.49	0.40
1:S:370:ALA:HA	1:S:373:CYS:HB3	2.03	0.40
1:S:433:PRO:O	1:S:436:GLU:HB3	2.21	0.40
1:S:614:PRO:HB3	1:S:620:PHE:CE1	2.56	0.40
1:S:763:THR:OG1	1:S:764:PRO:HD3	2.20	0.40
1:S:936:SER:HB3	1:S:2773:ARG:HD2	2.02	0.40
1:S:1092:GLU:HG3	1:S:1095:LEU:H	1.86	0.40
1:S:1279:LEU:HB3	1:S:1356:TRP:HE1	1.87	0.40
1:S:1341:ILE:O	1:S:1345:THR:HG23	2.20	0.40
1:S:1372:LEU:O	1:S:1375:THR:HB	2.21	0.40
1:S:1448:LEU:O	1:S:1452:VAL:HG23	2.21	0.40
1:S:1634:ALA:C	1:S:1636:ASP:H	2.25	0.40
1:S:1744:LYS:HE2	1:S:1744:LYS:HB3	1.88	0.40
1:S:2440:TYR:HA	1:S:2443:MET:HE1	2.03	0.40
1:S:2595:TRP:HE3	1:S:2765:GLN:HB3	1.86	0.40
1:S:3285:HIS:HB2	1:S:3301:LEU:HD23	2.03	0.40
1:S:3924:HIS:CD2	1:S:3926:ASN:HB2	2.56	0.40
1:S:4115:ASN:OD1	1:S:4116:ILE:N	2.53	0.40
2:T:329:LEU:HG	2:T:330:GLU:H	1.86	0.40
2:T:458:GLN:HG3	2:T:528:LEU:HD13	2.03	0.40
2:T:484:GLN:HB3	2:T:488:ARG:CZ	2.51	0.40
1:A:637:LYS:HA	1:A:637:LYS:HD2	1.80	0.40
1:A:935:HIS:HD2	1:A:2773:ARG:HE	1.68	0.40
1:A:1092:GLU:OE2	1:A:1094:SER:OG	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1256:TRP:HE1	1:A:1260:LEU:HD21	1.87	0.40
1:A:1474:ASP:OD1	1:A:1474:ASP:N	2.52	0.40
1:A:1665:HIS:O	1:A:1668:PHE:HB3	2.22	0.40
1:A:1833:LEU:O	1:A:1836:LEU:HB3	2.21	0.40
1:A:2219:LEU:HA	1:A:2222:HIS:HB2	2.03	0.40
1:A:3327:ASN:HB2	1:A:3388:ALA:HB2	2.03	0.40
1:A:4044:ILE:HG13	1:A:4048:LYS:NZ	2.35	0.40
2:B:321:ILE:HA	2:B:326:GLN:HA	2.03	0.40
2:B:389:CYS:O	2:B:393:GLU:N	2.53	0.40
2:B:407:PRO:HG2	3:C:486:ARG:NE	2.36	0.40
2:B:459:VAL:HG12	2:B:463:LYS:HE3	2.03	0.40
4:D:13:PRO:HG3	4:D:83:GLN:HB3	2.03	0.40
6:I:659:PHE:HB2	6:I:685:PHE:O	2.22	0.40
6:I:706:ASN:H	6:I:709:VAL:CG2	2.34	0.40
6:I:774:LEU:HA	6:I:777:VAL:HG12	2.03	0.40
3:L:350:GLN:OE1	2:T:473:TYR:N	2.55	0.40
3:L:686:ILE:HD12	3:L:702:LYS:HG3	2.04	0.40
5:P:18:HIS:CE1	5:P:36:LEU:HD22	2.57	0.40
1:S:157:TYR:O	1:S:160:LEU:HG	2.21	0.40
1:S:320:LEU:HB3	1:S:368:LEU:HD11	2.03	0.40
1:S:446:PHE:HB3	1:S:527:TYR:HE1	1.86	0.40
1:S:871:LEU:HD21	1:S:3125:ARG:HG3	2.02	0.40
1:S:934:LEU:O	1:S:938:VAL:HG22	2.22	0.40
1:S:1057:LYS:HG2	1:S:1099:PHE:HE2	1.87	0.40
1:S:1582:LEU:HD11	1:S:1593:VAL:HA	2.02	0.40
1:S:2750:GLU:O	1:S:2754:GLU:HG3	2.21	0.40
1:S:3177:ASN:HA	1:S:3180:ASP:OD2	2.21	0.40
1:S:3285:HIS:HA	1:S:3296:GLN:HE22	1.87	0.40
1:S:3924:HIS:HD2	1:S:3926:ASN:N	2.20	0.40
1:A:565:TYR:OH	1:A:642:PHE:HB2	2.22	0.40
1:A:935:HIS:CE1	1:A:987:LEU:HD22	2.56	0.40
1:A:1750:LEU:HD13	1:A:1758:LEU:HD12	2.03	0.40
1:A:1840:PHE:O	1:A:1844:VAL:HG23	2.21	0.40
1:A:2429:ASP:OD1	1:A:2430:GLU:N	2.52	0.40
1:A:2548:PRO:HB2	1:A:2848:PHE:CD1	2.56	0.40
1:A:2935:GLU:HG3	1:A:2938:VAL:HG22	2.03	0.40
1:A:3519:GLU:OE2	1:A:3561:LYS:NZ	2.42	0.40
1:A:3929:MET:HB2	1:A:3938:ILE:HD11	2.03	0.40
1:A:4098:LEU:HD11	1:A:4103:GLN:HA	2.02	0.40
2:B:290:ARG:O	6:I:691:GLN:HB2	2.22	0.40
2:B:318:ARG:HH21	2:B:330:GLU:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:639:ILE:HD13	3:C:639:ILE:HA	1.88	0.40
3:L:27:ILE:HG12	3:L:193:PRO:HD3	2.04	0.40
3:L:165:LEU:HD23	3:L:201:GLN:HE21	1.86	0.40
3:L:280:ASP:OD1	3:L:281:ALA:N	2.54	0.40
1:S:655:LEU:O	1:S:658:THR:OG1	2.28	0.40
1:S:670:LEU:CB	1:S:732:PHE:HE2	2.33	0.40
1:S:2428:ASP:O	1:S:2432:GLN:HG2	2.22	0.40
1:S:3300:VAL:O	1:S:3300:VAL:HG13	2.21	0.40
1:S:3499:ILE:HD13	1:S:3521:ILE:HG21	2.04	0.40
1:S:3869:THR:HG22	1:S:3873:LYS:NZ	2.36	0.40
2:T:212:ASP:OD1	2:T:213:ILE:N	2.55	0.40
2:T:476:ASP:OD1	2:T:476:ASP:N	2.54	0.40
1:A:421:LEU:HD13	1:A:424:LEU:HD23	2.02	0.40
1:A:433:PRO:O	1:A:436:GLU:HG3	2.21	0.40
1:A:465:PHE:HA	1:A:468:LEU:HG	2.03	0.40
1:A:893:SER:H	1:A:944:LYS:NZ	2.19	0.40
1:A:1191:PHE:HA	1:A:1194:PHE:CD2	2.57	0.40
1:A:1389:VAL:HG23	1:A:1391:VAL:HG12	2.03	0.40
1:A:1952:ILE:HD12	1:A:1961:PHE:CE1	2.56	0.40
1:A:2216:LEU:HD11	1:A:2249:LEU:HD22	2.04	0.40
1:A:2597:PHE:HE2	1:A:2766:ASP:N	2.17	0.40
1:A:3149:GLY:O	1:A:3153:SER:HB2	2.21	0.40
1:A:3252:PHE:HA	1:A:3287:ARG:CZ	2.51	0.40
1:A:3818:ASN:OD1	1:A:3819:THR:N	2.55	0.40
3:C:148:ASP:N	3:C:148:ASP:OD1	2.54	0.40
3:C:406:GLY:HA3	3:C:421:TYR:CZ	2.56	0.40
5:H:95:PHE:HE2	5:H:111:PHE:HD2	1.69	0.40
3:L:134:ILE:HG22	3:L:136:THR:OG1	2.21	0.40
3:L:355:PHE:O	3:L:425:PRO:HD3	2.22	0.40
3:L:528:ILE:HG22	3:L:532:LYS:NZ	2.36	0.40
1:S:11:SER:HA	1:S:14:ARG:HG3	2.04	0.40
1:S:174:VAL:HA	1:S:177:LEU:HD12	2.03	0.40
1:S:637:LYS:O	1:S:679:LYS:NZ	2.54	0.40
1:S:913:ARG:NH1	1:S:2801:ASP:OD2	2.47	0.40
1:S:994:TRP:NE1	1:S:2581:LEU:HD21	2.37	0.40
1:S:1207:TRP:O	1:S:1211:VAL:HG23	2.21	0.40
1:S:1301:ILE:HG21	1:S:1371:VAL:HG21	2.03	0.40
1:S:1457:GLN:HA	1:S:1460:ARG:CZ	2.51	0.40
1:S:2569:SER:OG	1:S:2571:ASP:OD1	2.40	0.40
1:S:2571:ASP:OD1	1:S:2571:ASP:N	2.51	0.40
1:S:2816:ILE:HD12	1:S:2816:ILE:HA	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:2938:VAL:HG23	1:S:3979:LEU:CD2	2.47	0.40
1:S:2950:LYS:HB3	1:S:2952:ILE:HG22	2.03	0.40
1:S:2975:ALA:HA	1:S:2981:TRP:CZ2	2.56	0.40
1:S:3410:ILE:HD11	1:S:3456:LEU:HD13	2.03	0.40
1:S:3502:MET:O	1:S:3506:LEU:N	2.54	0.40
1:S:4048:LYS:HB3	1:S:4048:LYS:HE3	1.95	0.40
2:T:125:GLN:OE1	2:T:128:GLN:NE2	2.55	0.40
2:T:131:PHE:O	2:T:135:MET:N	2.54	0.40
2:T:301:ARG:HB2	2:T:310:LEU:HD11	2.03	0.40
2:T:416:GLN:O	2:T:431:GLY:N	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	3473/4128 (84%)	3140 (90%)	330 (10%)	3 (0%)	51	85
1	S	3462/4128 (84%)	3180 (92%)	280 (8%)	2 (0%)	51	85
2	B	505/609 (83%)	468 (93%)	37 (7%)	0	100	100
2	T	498/609 (82%)	468 (94%)	30 (6%)	0	100	100
3	C	660/732 (90%)	619 (94%)	41 (6%)	0	100	100
3	L	644/732 (88%)	608 (94%)	35 (5%)	1 (0%)	47	81
4	D	139/204 (68%)	132 (95%)	7 (5%)	0	100	100
4	M	160/204 (78%)	156 (98%)	4 (2%)	0	100	100
5	G	199/336 (59%)	195 (98%)	4 (2%)	0	100	100
5	H	190/336 (56%)	188 (99%)	2 (1%)	0	100	100
5	P	199/336 (59%)	196 (98%)	3 (2%)	0	100	100
5	Q	190/336 (56%)	184 (97%)	6 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	I	242/911 (27%)	213 (88%)	29 (12%)	0	100	100
6	R	242/911 (27%)	215 (89%)	27 (11%)	0	100	100
11	f	5/299 (2%)	3 (60%)	2 (40%)	0	100	100
11	m	5/299 (2%)	4 (80%)	1 (20%)	0	100	100
All	All	10813/15110 (72%)	9969 (92%)	838 (8%)	6 (0%)	54	85

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3304	VAL
1	S	3304	VAL
1	A	1960	LYS
3	L	236	VAL
1	S	956	PRO
1	A	956	PRO

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3123/3671 (85%)	3100 (99%)	23 (1%)	84	90
1	S	3142/3671 (86%)	3125 (100%)	17 (0%)	88	93
2	B	455/548 (83%)	453 (100%)	2 (0%)	91	94
2	T	452/548 (82%)	449 (99%)	3 (1%)	84	90
3	C	589/649 (91%)	583 (99%)	6 (1%)	76	86
3	L	576/649 (89%)	571 (99%)	5 (1%)	78	88
4	D	116/160 (72%)	115 (99%)	1 (1%)	78	88
4	M	127/160 (79%)	127 (100%)	0	100	100
5	G	180/303 (59%)	177 (98%)	3 (2%)	60	78
5	H	177/303 (58%)	176 (99%)	1 (1%)	86	91
5	P	179/303 (59%)	177 (99%)	2 (1%)	73	84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	Q	175/303 (58%)	173 (99%)	2 (1%)	73	84
6	I	220/808 (27%)	217 (99%)	3 (1%)	67	81
6	R	217/808 (27%)	216 (100%)	1 (0%)	88	93
11	f	6/262 (2%)	6 (100%)	0	100	100
11	m	6/262 (2%)	6 (100%)	0	100	100
All	All	9740/13408 (73%)	9671 (99%)	69 (1%)	84	90

All (69) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	24	ARG
1	A	87	LYS
1	A	119	ARG
1	A	273	ARG
1	A	971	ARG
1	A	1038	LYS
1	A	1136	ARG
1	A	1222	ASN
1	A	1727	ARG
1	A	1735	ARG
1	A	1806	ARG
1	A	1958	GLU
1	A	2106	ARG
1	A	2228	ARG
1	A	2931	ARG
1	A	3098	ARG
1	A	3159	ARG
1	A	3161	LEU
1	A	3426	LYS
1	A	3737	ARG
1	A	3789	ARG
1	A	4075	ARG
1	A	4090	ARG
2	B	218	ARG
2	B	516	LYS
3	C	130	ARG
3	C	242	ARG
3	C	260	ARG
3	C	502	ARG
3	C	534	LYS

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Mol	Chain	Res	Type
3	C	544	LYS
4	D	193	LYS
5	G	26	LYS
5	G	161	ARG
5	G	197	LYS
5	H	164	LYS
6	I	708	ARG
6	I	741	ARG
6	I	814	ARG
3	L	130	ARG
3	L	233	LYS
3	L	271	ARG
3	L	469	LYS
3	L	502	ARG
5	P	26	LYS
5	P	153	ARG
5	Q	7	ARG
5	Q	161	ARG
6	R	782	LYS
1	S	24	ARG
1	S	119	ARG
1	S	364	ARG
1	S	631	ARG
1	S	899	ARG
1	S	1329	ARG
1	S	1331	ASN
1	S	1735	ARG
1	S	2228	ARG
1	S	2598	ARG
1	S	2891	ARG
1	S	3046	ARG
1	S	3621	LYS
1	S	3725	ARG
1	S	3799	ARG
1	S	4090	ARG
1	S	4105	LYS
2	T	299	LYS
2	T	351	LYS
2	T	474	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (94) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	40	GLN
1	A	192	ASN
1	A	676	ASN
1	A	753	GLN
1	A	839	ASN
1	A	1115	HIS
1	A	1222	ASN
1	A	1442	GLN
1	A	1598	ASN
1	A	1611	GLN
1	A	1614	GLN
1	A	1624	GLN
1	A	1941	HIS
1	A	2105	HIS
1	A	2170	GLN
1	A	2225	HIS
1	A	2306	ASN
1	A	2845	ASN
1	A	3081	HIS
1	A	3105	ASN
1	A	3564	GLN
1	A	3634	GLN
1	A	3660	ASN
1	A	3766	GLN
1	A	4055	ASN
1	A	4088	ASN
1	A	4092	GLN
1	A	4110	GLN
2	B	293	ASN
2	B	304	ASN
2	B	359	HIS
2	B	484	GLN
2	B	502	GLN
3	C	43	GLN
3	C	162	GLN
3	C	312	GLN
3	C	404	GLN
3	C	432	GLN
3	C	492	GLN
3	C	604	GLN
5	G	21	GLN
5	H	200	ASN

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Mol	Chain	Res	Type
6	I	773	GLN
3	L	162	GLN
3	L	653	GLN
3	L	657	ASN
6	R	716	ASN
6	R	773	GLN
6	R	848	HIS
1	S	322	GLN
1	S	442	GLN
1	S	454	GLN
1	S	676	ASN
1	S	739	ASN
1	S	935	HIS
1	S	997	ASN
1	S	1043	GLN
1	S	1115	HIS
1	S	1146	ASN
1	S	1476	HIS
1	S	1509	GLN
1	S	1574	ASN
1	S	1611	GLN
1	S	1613	HIS
1	S	1625	HIS
1	S	1654	GLN
1	S	2225	HIS
1	S	2233	HIS
1	S	2234	ASN
1	S	2335	ASN
1	S	2518	GLN
1	S	2799	GLN
1	S	2807	GLN
1	S	2979	GLN
1	S	3004	HIS
1	S	3059	GLN
1	S	3150	ASN
1	S	3510	GLN
1	S	3577	GLN
1	S	3822	GLN
1	S	3924	HIS
1	S	4000	ASN
1	S	4110	GLN
2	T	52	GLN

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Mol	Chain	Res	Type
2	T	95	ASN
2	T	125	GLN
2	T	128	GLN
2	T	137	HIS
2	T	176	HIS
2	T	293	ASN
2	T	359	HIS
2	T	360	HIS
2	T	426	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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.

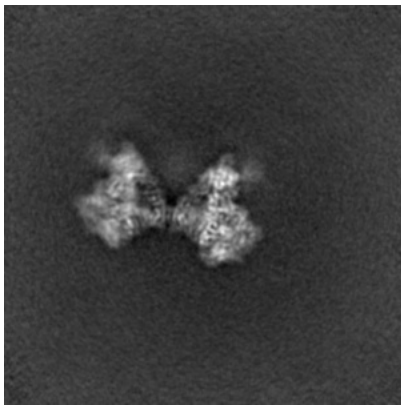
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-16074. These allow visual inspection of the internal detail of the map and identification of artifacts.

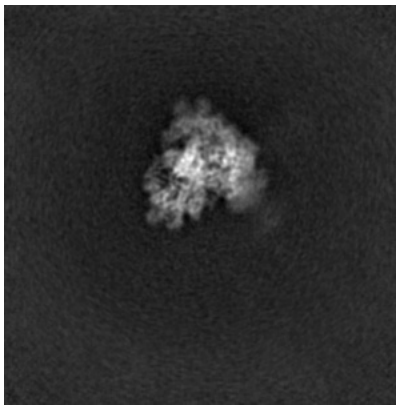
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

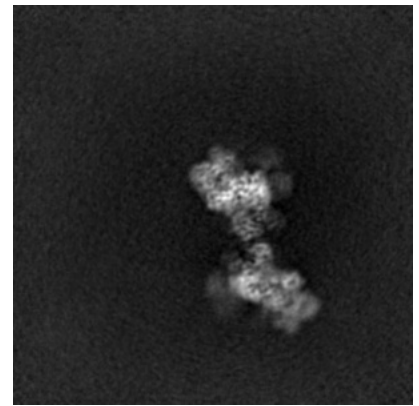
6.1.1 Primary map



X

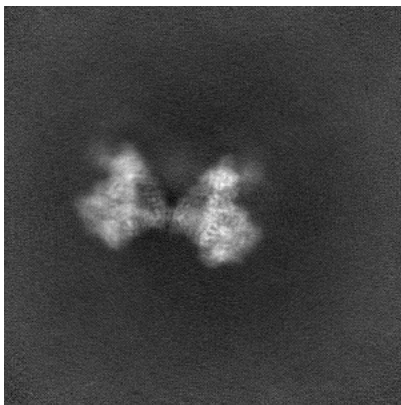


Y

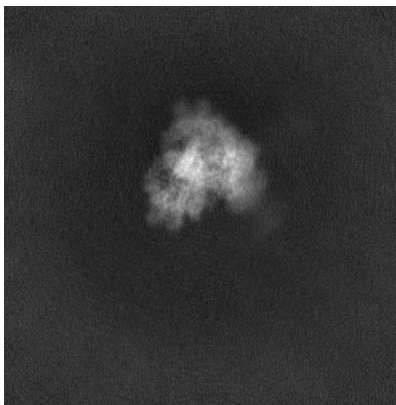


Z

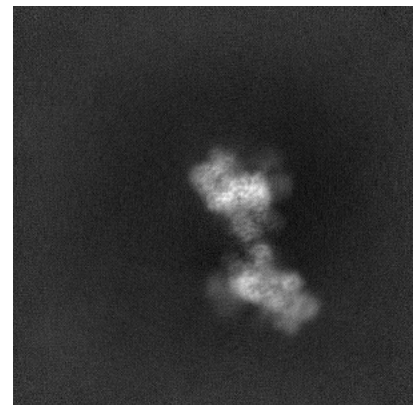
6.1.2 Raw map



X



Y

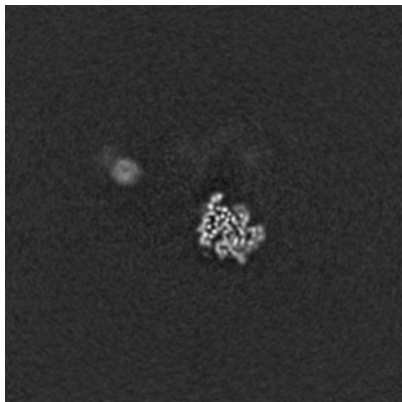


Z

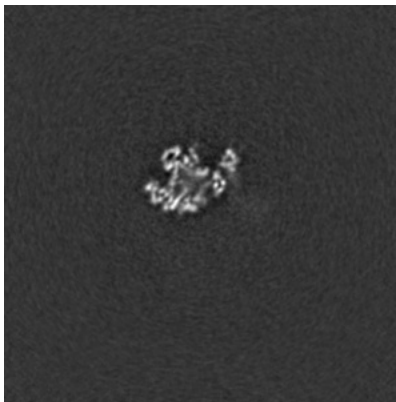
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

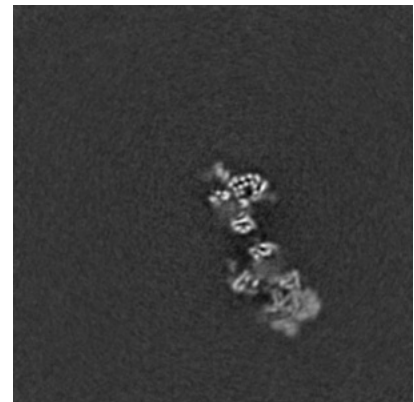
6.2.1 Primary map



X Index: 260

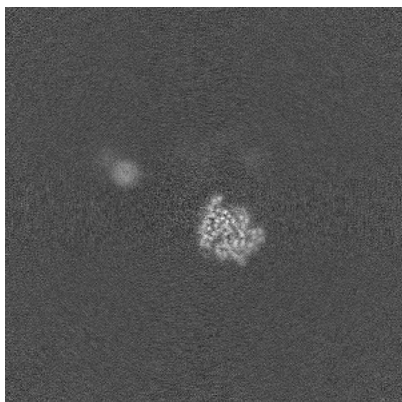


Y Index: 260



Z Index: 260

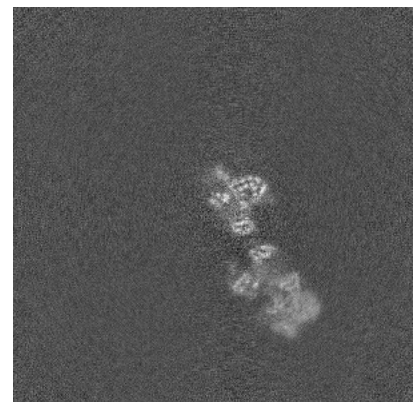
6.2.2 Raw map



X Index: 260



Y Index: 260

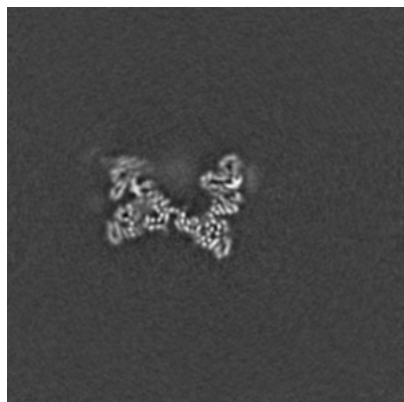


Z Index: 260

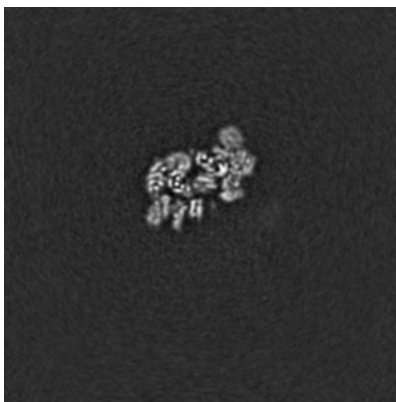
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 316

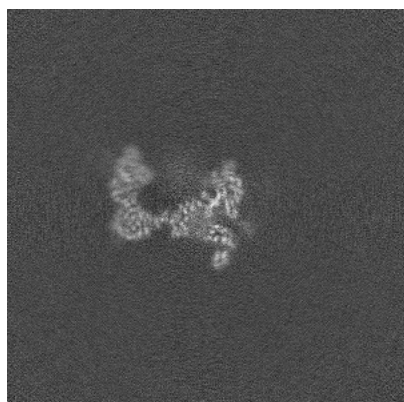


Y Index: 283

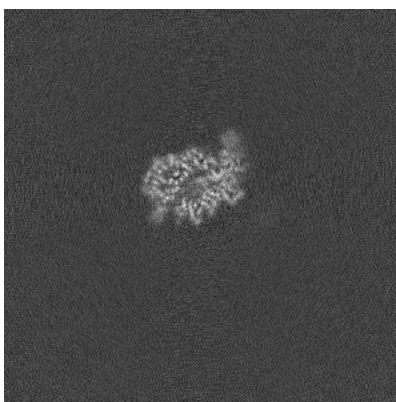


Z Index: 253

6.3.2 Raw map



X Index: 302



Y Index: 275

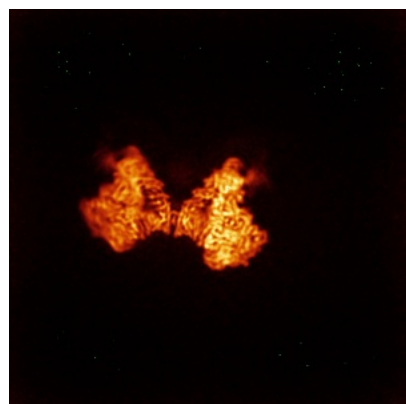


Z Index: 242

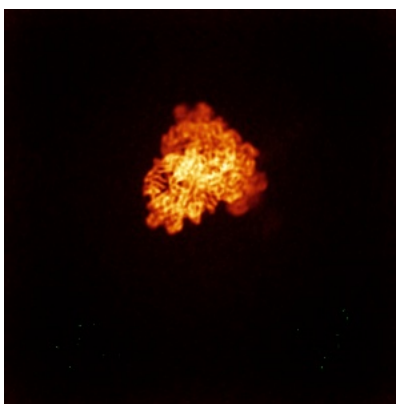
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X

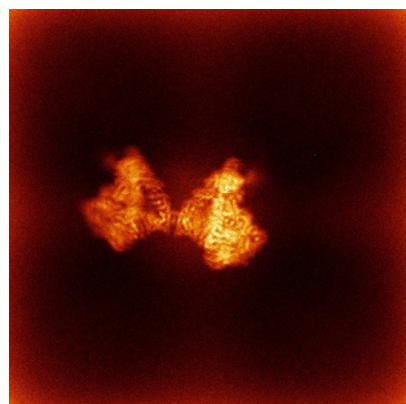


Y

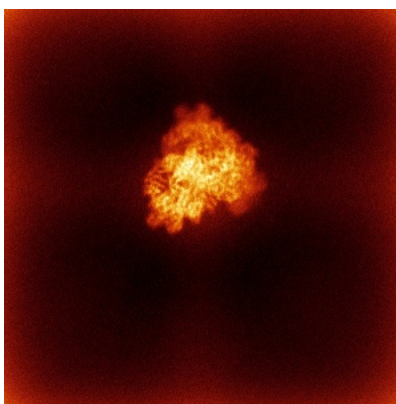


Z

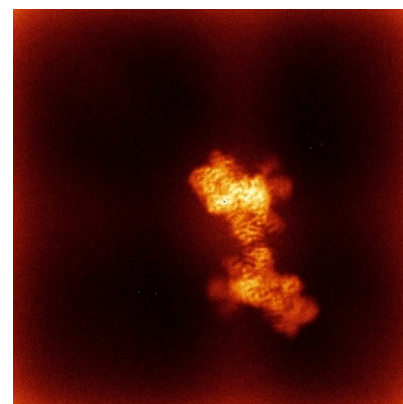
6.4.2 Raw map



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



X



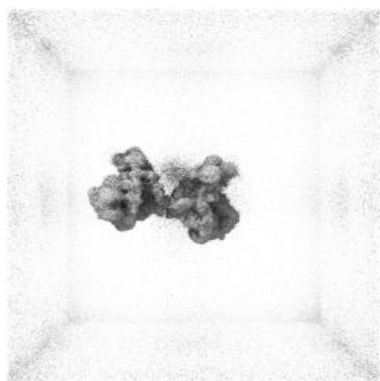
Y



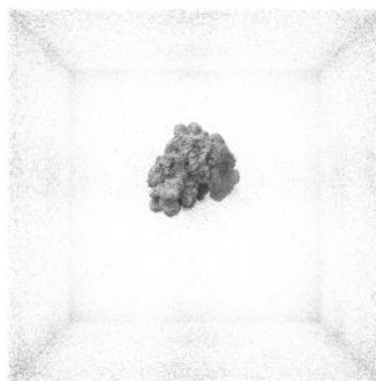
Z

The images above show the 3D surface view of the map at the recommended contour level 0.045. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

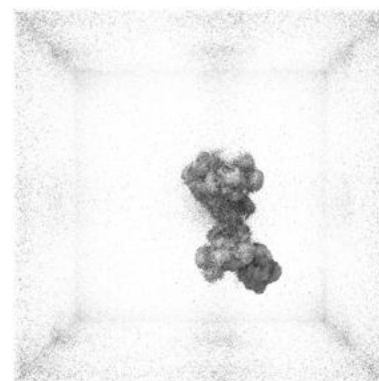
6.5.2 Raw map



X



Y



Z

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.

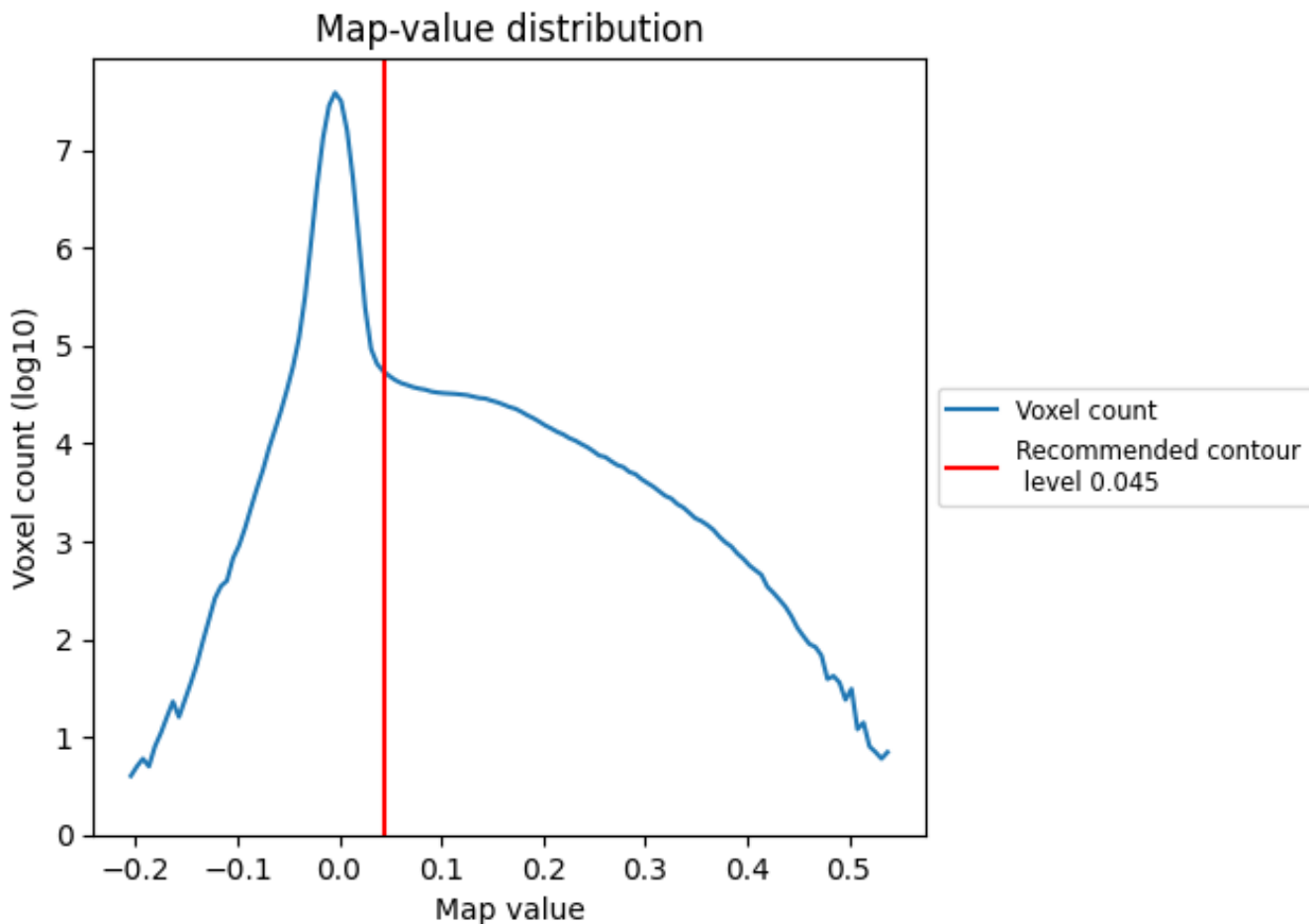
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

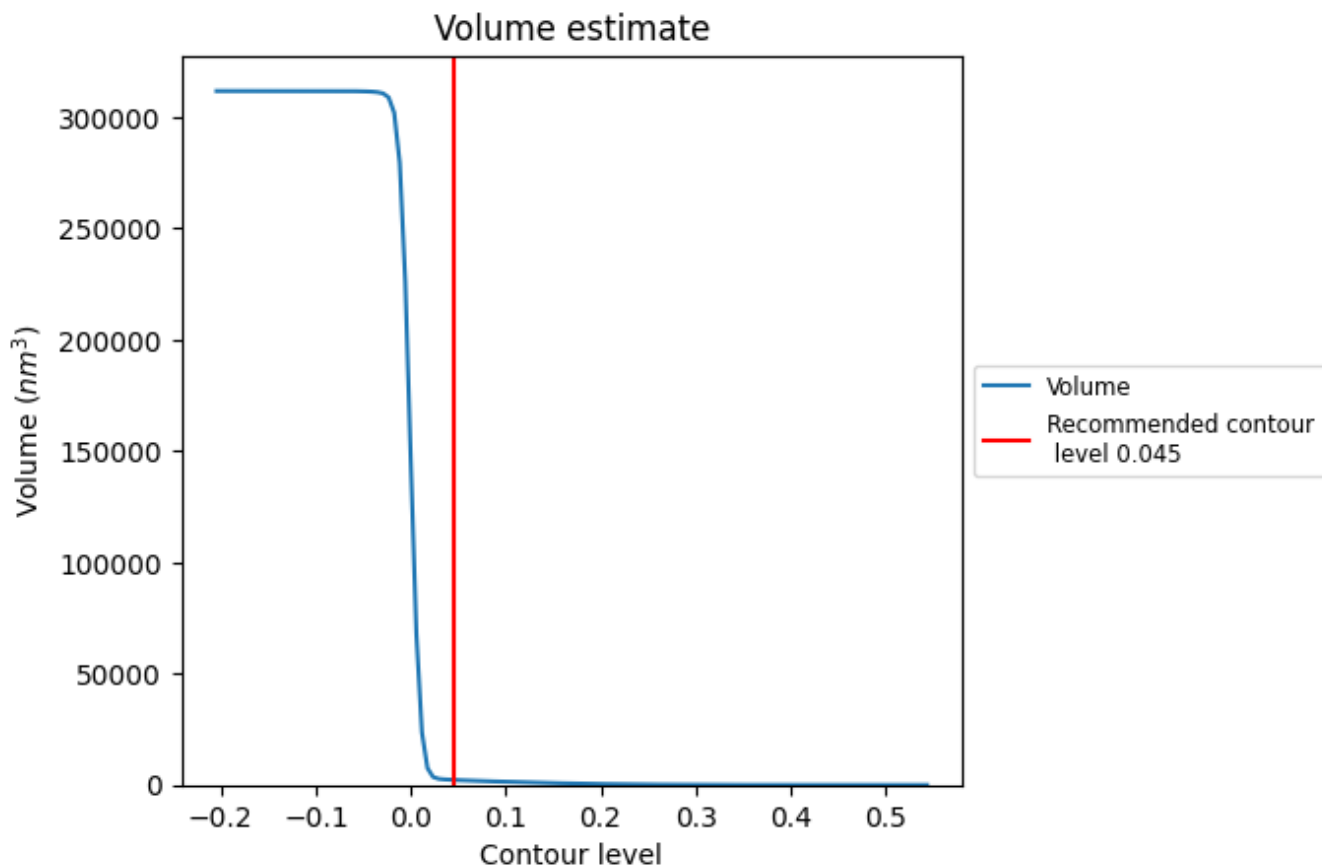
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

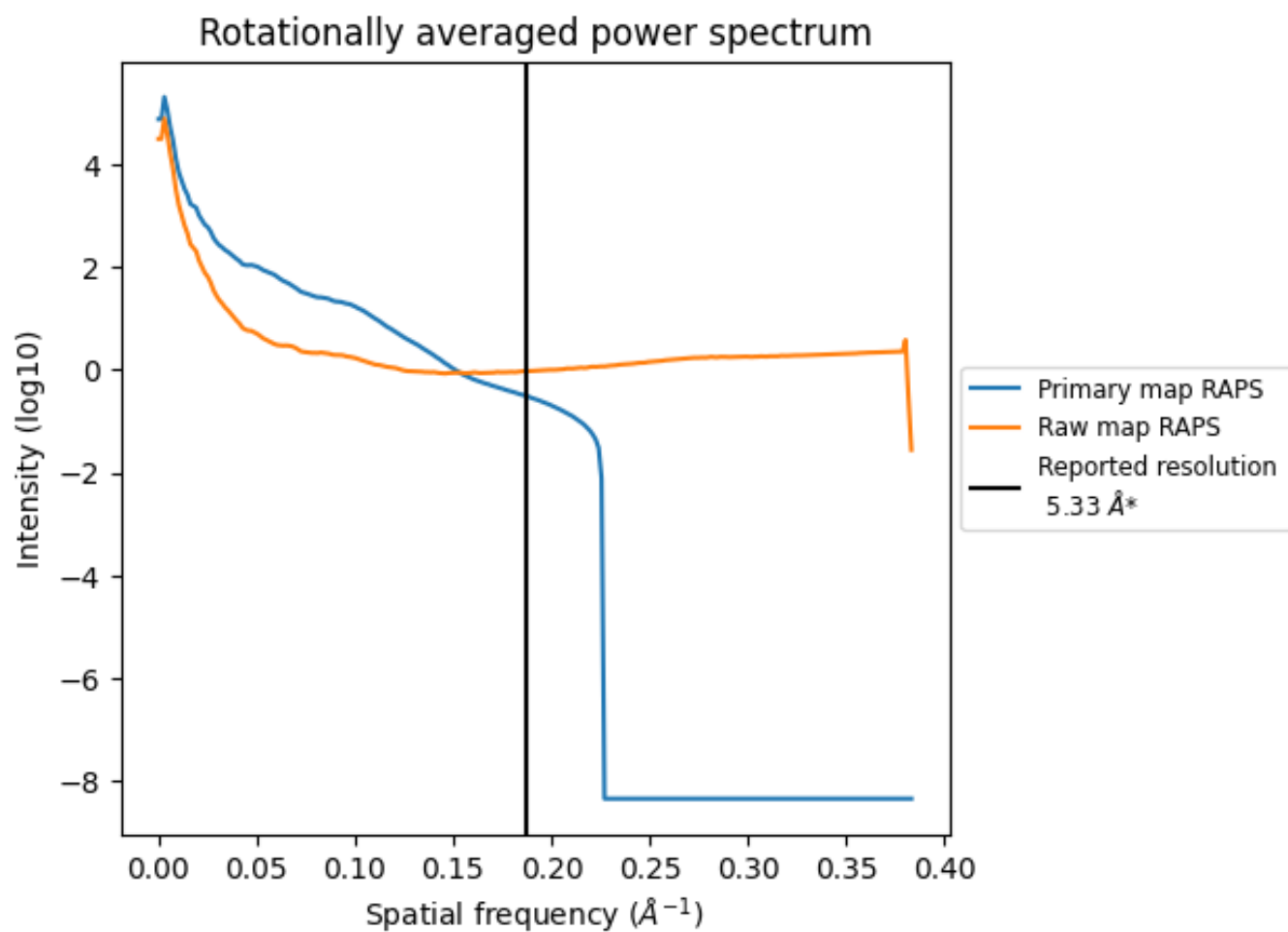
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 2267 nm^3 ; this corresponds to an approximate mass of 2048 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 [\(i\)](#)

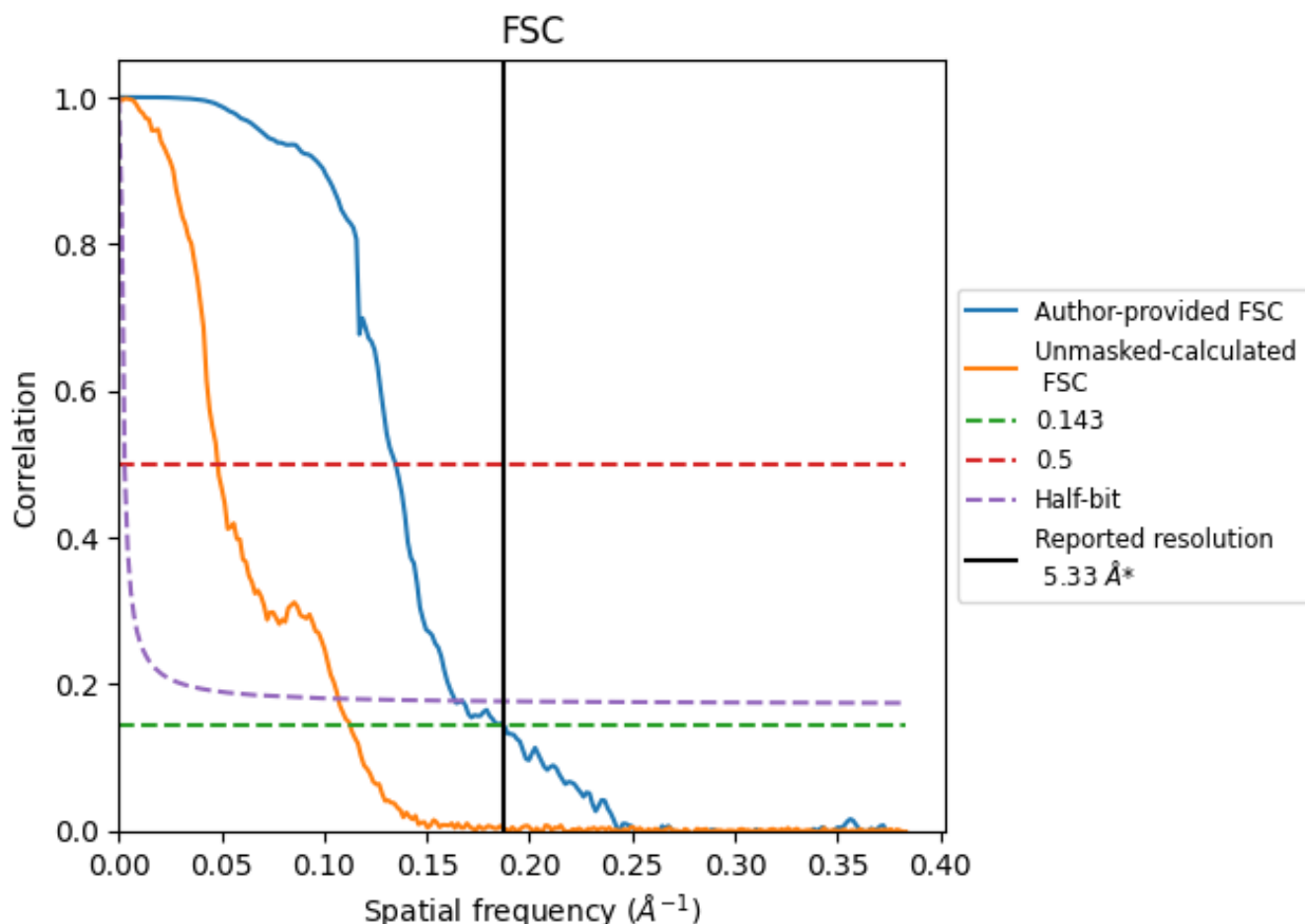


*Reported resolution corresponds to spatial frequency of 0.188 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.188 Å⁻¹

8.2 Resolution estimates [i](#)

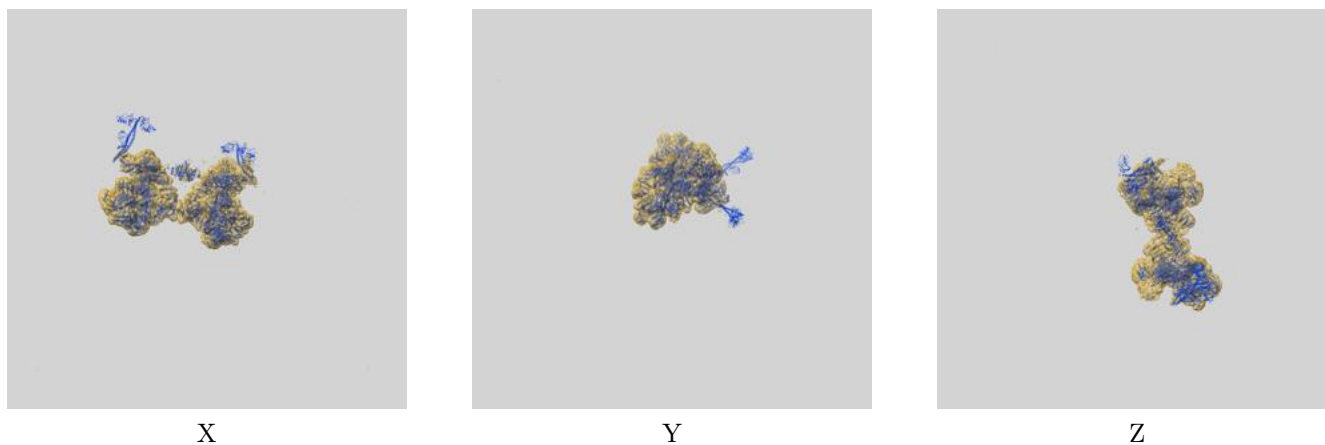
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	5.33	-	-
Author-provided FSC curve	5.33	7.42	6.10
Unmasked-calculated*	8.88	20.79	9.35

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.88 differs from the reported value 5.33 by more than 10 %

9 Map-model fit [i](#)

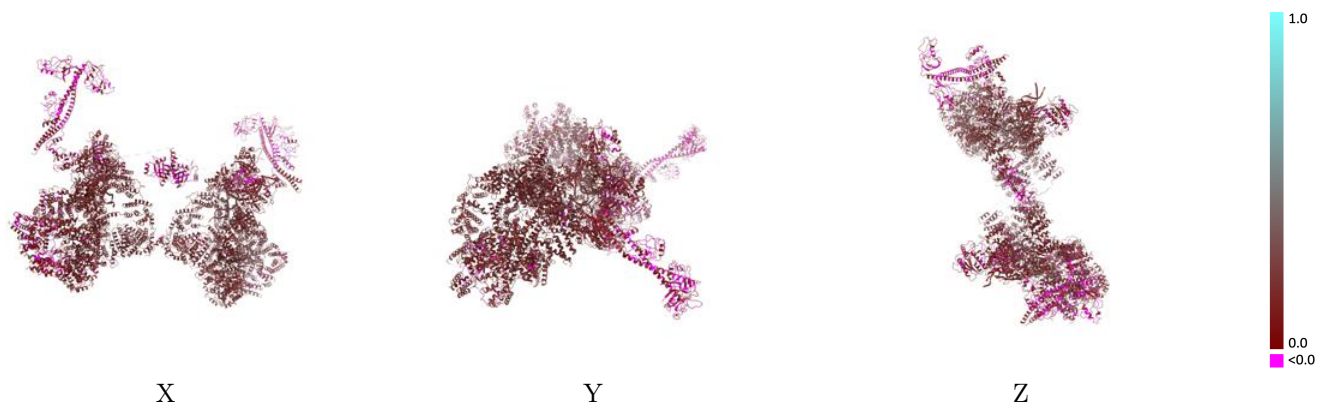
This section contains information regarding the fit between EMDB map EMD-16074 and PDB model 8BHY. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



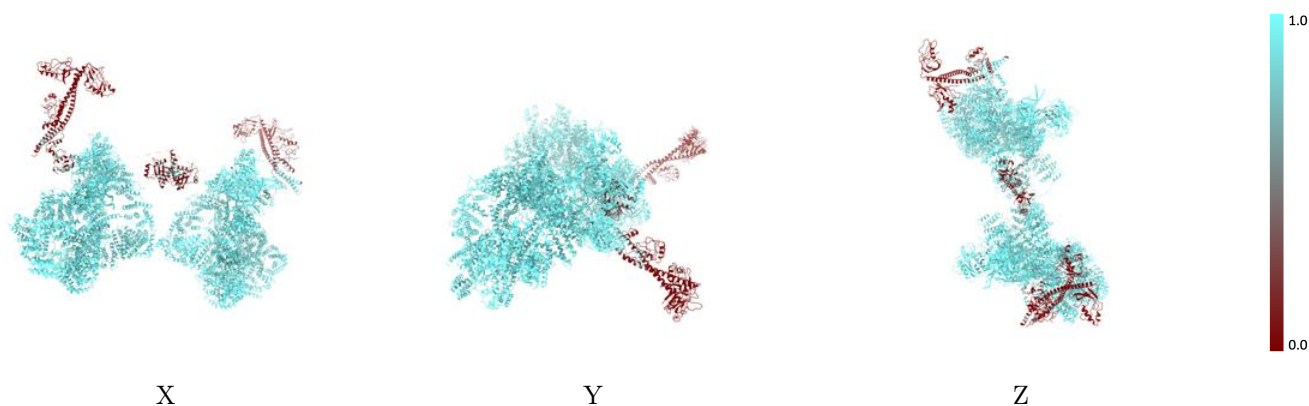
The images above show the 3D surface view of the map at the recommended contour level 0.045 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



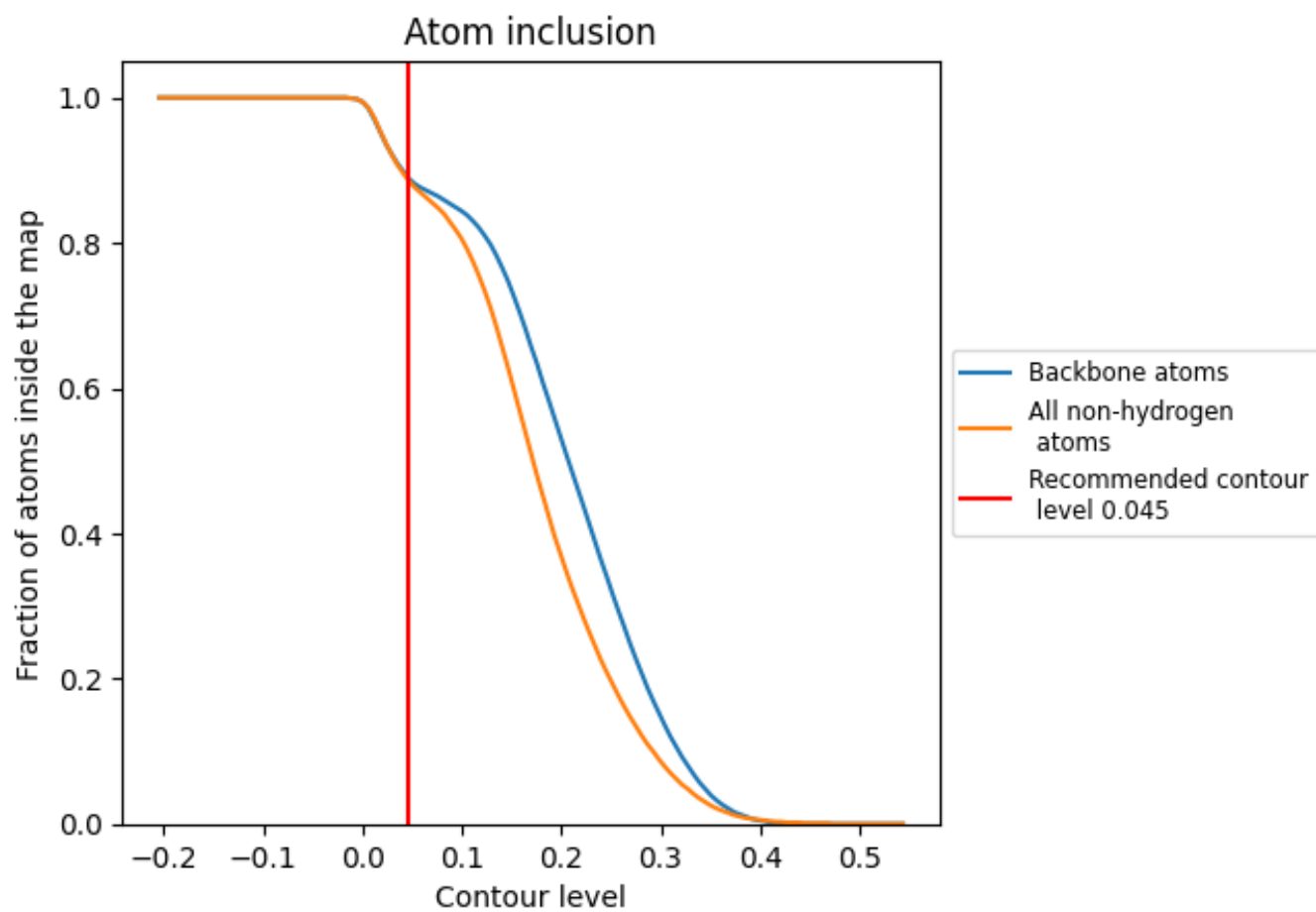
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.045).











































9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 89% 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 (0.045) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8880	 0.1660
A	 0.9940	 0.1980
B	 0.9970	 0.2050
C	 0.9930	 0.1680
D	 0.3220	 0.0840
G	 0.1640	 0.0630
H	 0.1830	 0.0900
I	 0.5710	 0.1120
L	 0.9970	 0.1310
M	 0.3140	 0.0980
P	 0.0650	 0.0810
Q	 0.0430	 0.0600
R	 0.1750	 0.0790
S	 0.9950	 0.1680
T	 0.9970	 0.1550
d	 1.0000	 0.2620
e	 1.0000	 0.2710
f	 0.9820	 0.0580
i	 1.0000	 0.2200
j	 1.0000	 0.2340
m	 1.0000	 0.0260

