



Full wwPDB EM Validation Report ⓘ

Jun 3, 2023 – 02:14 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.dev50
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.33

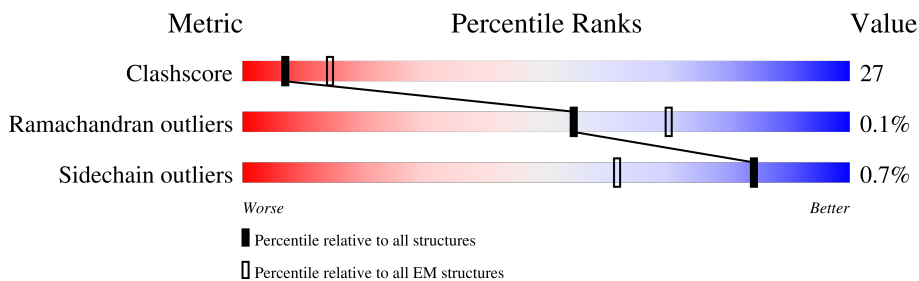
1 Overall quality at a glance i

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		

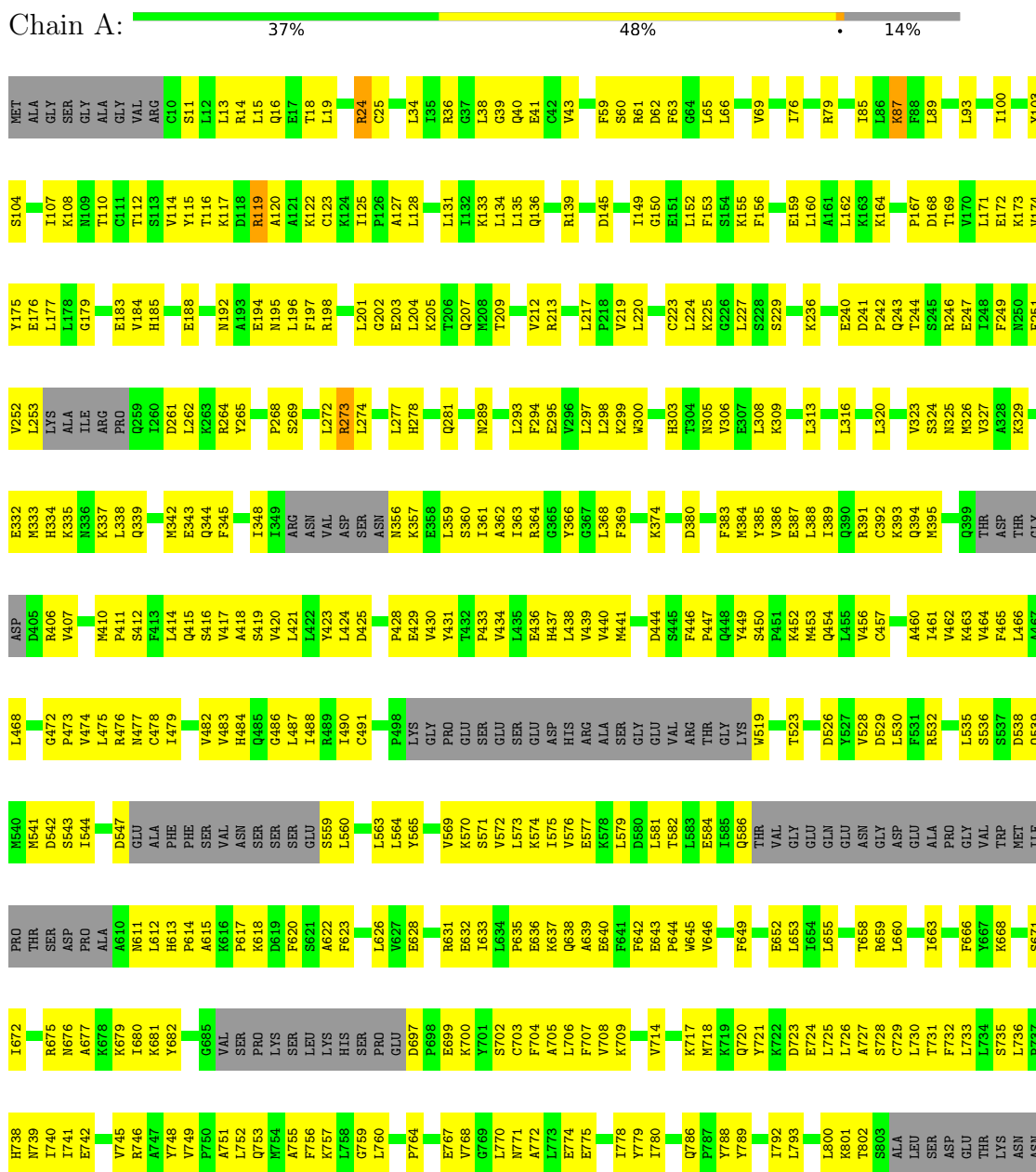
- Molecule 11 is a protein called Non-homologous end-joining factor 1.

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

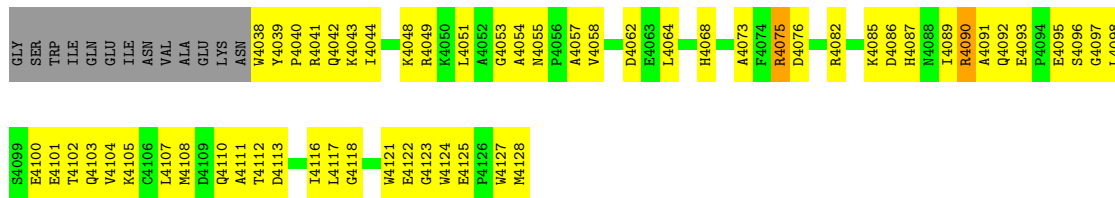
3 Residue-property plots [i](#)

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.

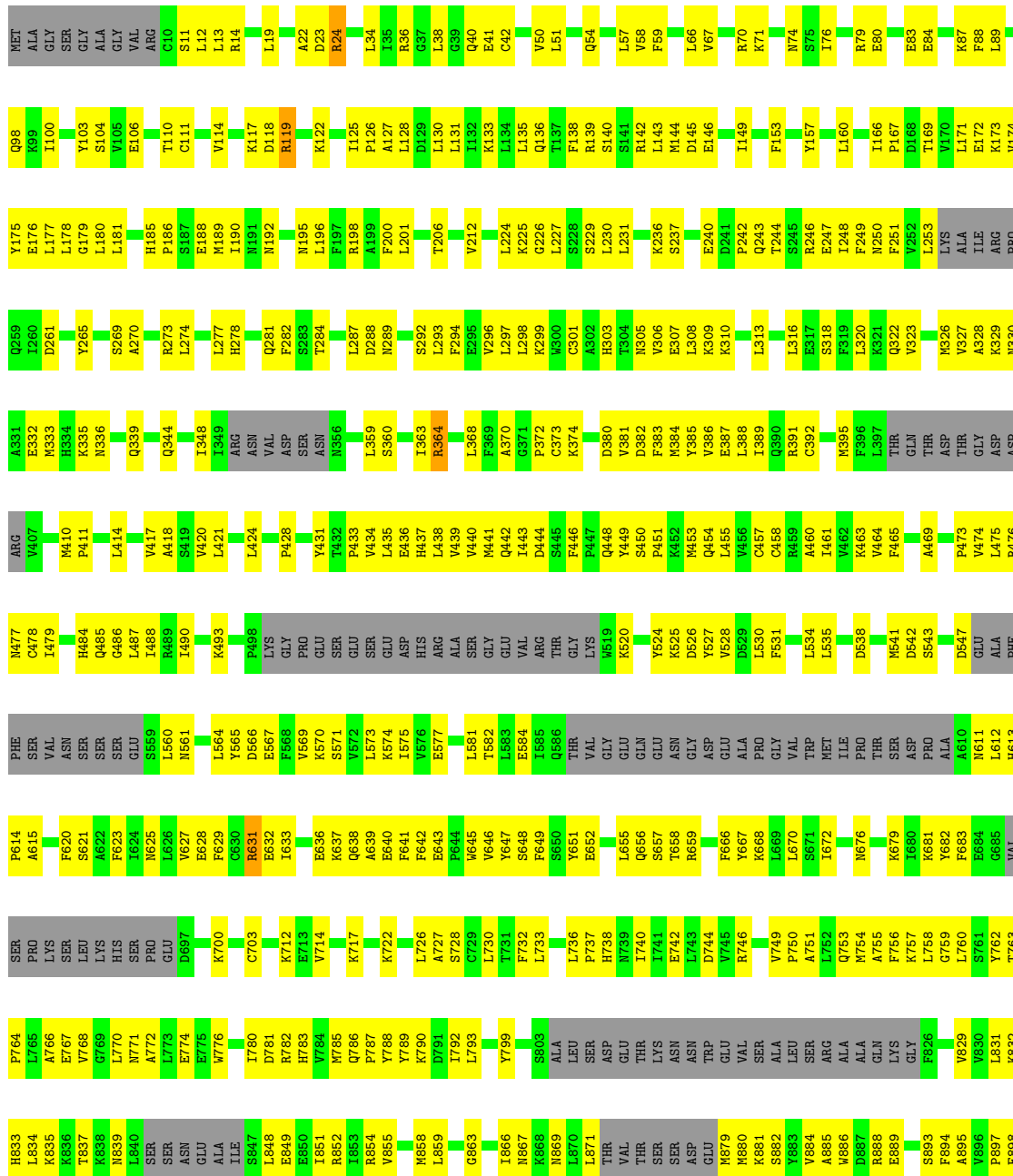
- Molecule 1: DNA-dependent protein kinase catalytic subunit



L2794	ALA	L2794	LEU	S2599	R2522	P2444	F2378	V2315	L2249	L2165	ASN	SER	HIS
Q2795	ALA	R2523	THR	T2600	R2524	K2445	M2379	Y2316	S2250	S2166	R2090	ASP	ALA
A2796	R2721	F2524	GLY	V2601	L2446	L2446	M2380	A2317	P2251	P2167	M2094	GLY	LYS
R2800	R2722	W2525	SER	T2602	L2454	A2318	F2383	A2319	P2252	L2168	L2097	SER	GLY
Q2805	D2723	S2526	THR	T2603	L2455	A2320	F2384	A2321	R2253	L2169	L2100	TYR	LYS
L2804	T2724	H2527	ASP	PRO	V2456	V2456	L2385	E2321	R2254	Q2170	L2101	MET	ILE
A2805	R2727	E2528	PRO	PHE	V2458	V2458	L2386	V2322	L2256	A2172	V2101	SER	ASN
L2808	R2731	R2529	LEU	VAL	H2464	H2464	P2387	L2323	F2257	A2173	K2102	SER	GLN
L2809	R2732	R2530	VAL	THR	P2465	P2465	K2388	G2324	E2258	N2176	H2103	LEU	VAL
L2810	R2733	L2531	ASP	GLU	P2466	P2466	L2389	L2325	K2259	N2177	H2104	SER	PHE
R2811	R2734	P2532	HIS	GLN	S2466	S2466	H2390	L2326	F2260	N2178	H2105	LYS	HIS
L2812	R2735	R2533	THR	ALA	T2467	T2467	G2391	L2327	F2261	N2179	H2106	PRO	GLY
F2813	E2737	M2534	SER	SER	T2468	T2468	V2392	L2328	G2262	G2179	R2106	GLU	SER
M2820	R2741	D2537	PRO	GLN	C2469	C2469	L2393	V2329	E2190	E2190	S2107	LYS	CYS
F2823	K2746	L2538	SER	GLY	R2470	R2470	K2394	V2330	E2191	S2033	L2108	LYS	ILE
K2824	G2747	R2539	ASP	THR	Q2471	Q2471	T2395	M2331	S2266	S2034	GLY	LEU	THR
L2826	A2749	L2539	ASP	LEU	Q2472	Q2472	L2396	E2332	S2267	D2044	PRO	LEU	GLU
T2825	R2748	L2540	LEU	GLN	M2473	M2473	L2397	R2333	K2268	G2048	PRO	ILE	GLY
L2827	G2749	A2541	SER	THR	I2476	I2476	L2398	K2334	D2269	Y2049	GLN	PHE	N1909
E2828	V2749	S2544	ARG	ARG	L2477	L2477	E2399	M2335	M2270	G2049	GLY	GLU	T1912
S2829	A2750	L2545	HIS	THR	M2478	M2478	E2400	N2336	S2271	A2200	GLU	LEU	L1915
N2830	Q2751	L2546	LYS	ALA	W2479	W2479	V2401	L2337	G2273	A2201	GLU	LEU	L1916
N2831	K2752	S2547	ARG	GLY	I2480	I2480	C2403	E2338	G2274	V2205	VAL	LEU	K1917
ALA	R2753	P2548	SER	SER	H2481	H2481	R2404	E2339	I2274	V2206	VAL	LEU	L1918
ALA	E2756	K2549	LEU	LEU	D2482	D2482	V2405	S2340	G2275	F2206	PRO	TYR	L1919
ARG	E2760	I2550	GLY	SER	M2483	M2483	F2408	L2342	L2276	K2207	ARG	ARG	C1919
ARG	E2763	H2553	ALA	ALA	R2484	R2484	M2408	E2343	L2277	R2120	ARG	ARG	C1920
ARG	M2763	H2554	GLN	TRP	R2485	R2485	E2410	L2344	G2278	D2121	GLN	ARG	C1921
GLY	D2766	S2556	VAL	VAL	PRD	PRD	E2411	V2345	I2279	D2122	ASP	TYR	D1921
LYS	D2773	L2557	ALA	VAL	GLU	GLU	L2411	A2346	V2280	L2121	PRO	ASP	A1922
LYS	R2774	L2558	ALA	VAL	GLU	GLU	Y2412	K2347	M2281	L2122	ARG	PHE	F1923
LYS	S2774	L2559	ALA	VAL	SER	SER	F2413	Q2348	A2282	L2123	ARG	ARG	F1924
LYS	R2775	L2560	ALA	VAL	GLU	GLU	Q2414	K2350	R2283	L2124	ARG	ARG	T1924
LYS	R2776	L2561	LYS	LYS	GLU	GLU	L2415	L2352	M2284	L2125	ARG	ARG	N1925
LYS	H2777	L2562	LYS	ILE	T2491	T2491	K2418	H2351	G2279	L2126	ARG	ARG	N1926
LYS	G2778	L2563	VAL	ARG	M2493	M2493	D2419	H2352	L2285	L2127	ARG	ARG	MET
LYS	D2779	L2564	GLY	ARG	D2494	D2494	F2420	Q2353	Y2288	L2128	VAL	VAL	ALA
LYS	R2779	L2565	THR	THR	S2495	S2495	M2424	M2356	Q2291	L2129	PRO	PRO	ALA
LYS	S2779	L2566	THR	THR	Q2496	Q2496	M2424	E2357	C2292	V2138	PRO	PRO	GLY
LYS	R2780	L2567	ASP	GLN	E2497	E2497	R2427	E2358	G2293	P2139	ARG	ARG	GLU
LYS	P2781	L2568	PHE	GLN	I2498	I2498	D2428	D2359	L2294	L2140	GLU	GLU	GLN
LYS	G2781	L2569	GLY	GLN	F2499	F2499	E2430	K2366	L2295	N2141	ARG	ARG	LEU
LYS	D2782	L2570	LYS	HIS	K2500	K2500	D2429	V2360	Q2295	L2142	GLN	LYS	L1934
LYS	L2782	L2571	LYS	ASP	K2501	K2501	E2431	F2361	E2298	R2143	ASP	LYS	E1935
LYS	I2783	L2572	THR	PHE	D2503	D2503	R2431	I2361	A2299	F2145	THR	THR	Y1940
LYS	Q2784	L2573	LEU	THR	D2504	D2504	E2432	V2362	A2302	L2146	THR	THR	H1941
LYS	R2785	L2574	LEU	THR	V2505	V2505	Q2432	M2365	L2303	A2147	VAL	VAL	N1946
LYS	L2785	L2575	GLY	THR	L2506	L2506	K2433	K2366	L2304	HIS	THR	THR	C1947
LYS	I2786	L2576	GLY	THR	L2507	L2507	V2434	V2367	F2304	I2151	ASP	ASP	A1948
LYS	C2864	L2577	THR	THR	L2508	L2508	V2435	T2368	E2299	E2154	VAL	VAL	I1949
LYS	E2865	L2578	ASP	ALA	L2510	L2510	C2435	T2369	A2302	E2155	VAL	VAL	A1949
LYS	R2786	L2579	ASP	ALA	L2511	L2511	L2436	K2369	L2303	E2156	VAL	VAL	A1950
LYS	H2787	L2580	VAL	GLY	L2512	L2512	L2437	S2370	L2304	E2157	GLU	GLU	V1951
LYS	S2788	L2581	ASP	GLY	E2513	E2513	K2434	F2371	L2298	F2157	GLU	GLU	V1952
LYS	Q2867	L2582	ASP	THR	E2514	E2514	V2439	F2371	F2309	F2158	GLU	GLU	C1953
LYS	L2786	L2583	LYS	SER	Q2518	Q2518	L2440	L2374	F2310	K2239	GLU	GLU	C1954
LYS	I2791	L2584	VAL	PHE	Q2519	Q2519	K2441	A2375	R2311	T2240	ASP	ASP	V1955
LYS	P2792	L2585	VAL	PHE	R2597	R2597	M2442	D2376	Y2312	L2241	GLY	GLY	A1958
LYS	P2793	L2586	GLY	TRP	R2598	R2598	M2443	R2377	E2314	W2164	LEU	LEU	



● Molecule 1: DNA-dependent protein kinase catalytic subunit

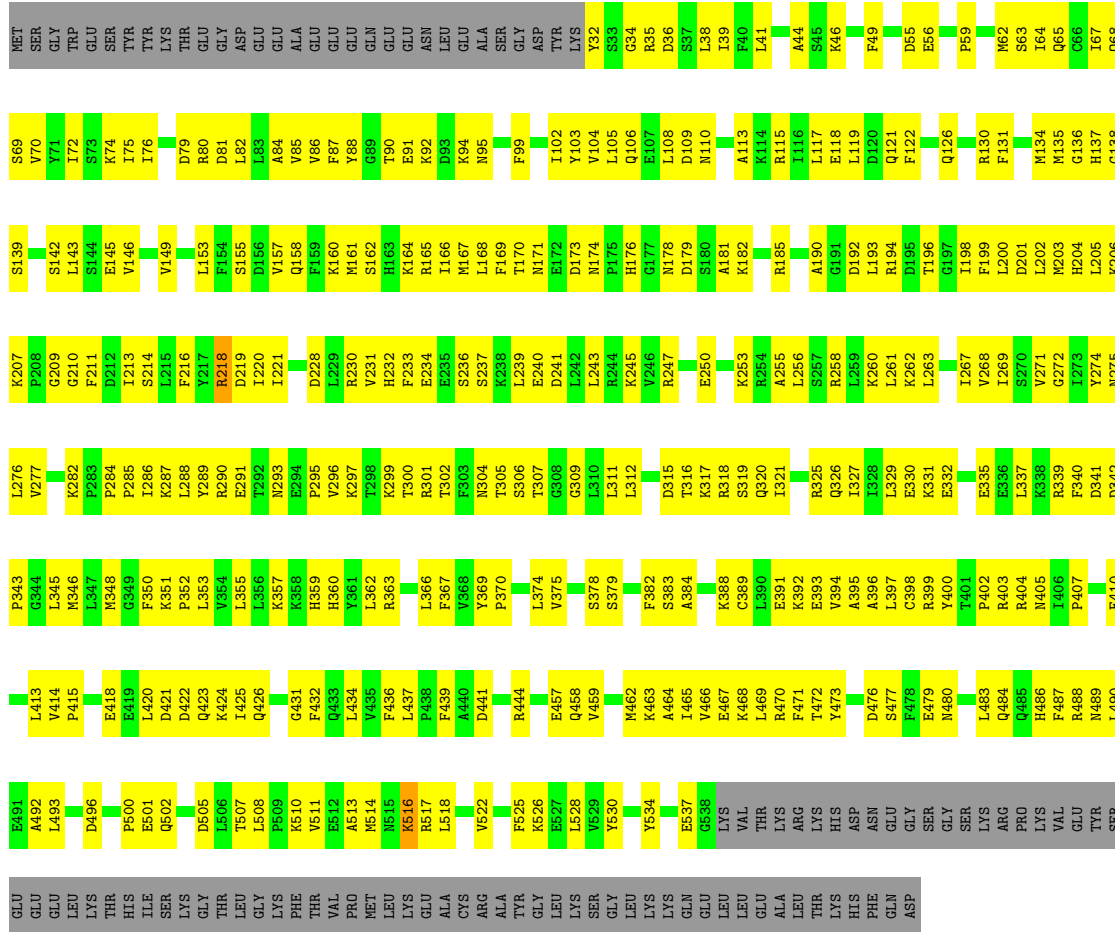


E3038	L2971	G2721	R2522	Y2440	S2308	K2227	L2097	LEU
L3041	L2972	R2722	M2523	K2441	F2309	K2228	L2100	SER
P3042	D2973	T2723	F2524	M2442	F2309	R2228	L2100	TYR
L3043	E2974	D2724	W2525	K2443	V2310	A2229	L2101	LEU
M3044	A2975	L2725	R2530	P2444	K2313	F2231	K2102	ALA
L3045	M2976	L2726	L2531	K2445	E2314	F2231	M2103	ASP
R3046	N2977	K2727	L2531	L2446	V2315	H2233	M2104	S2034
S3047	K2978	L2728	F2532	P2447	Y2316	H2233	H2105	Q2042
R3048	D2979	R2734	S2533	K2448	A2317	L2234	H2105	F2043
L3051	V2980	D2735	M2534	L2451	A2318	E2236	R2106	D2044
L3052	V2981	R2736	T2535	R2452	A2319	I2237	S2107	S2107
D3058	V2982	R2737	R2538	P2457	E2320	I2238	L2108	F2045
L3061	A2983	E2748	L2542	E2460	E2321	K2246	PRO	G2048
F3064	V2984	A2749	L2545	F2461	L2323	D2247	PRO	V2049
D3066	K2985	E2750	L2549	F2462	G2324	C2248	PRO	Q2050
K3067	R2986	K2751	L2549	V2463	G2324	D2249	GLY	SER
Q3074	E2987	R2752	P2549	H2464	L2325	G2254	GLY	TYR
I3077	K2988	E2755	K2549	H2464	L2327	R2254	GLY	TYR
L3078	A2989	E2756	L2550	T2467	R2328	F2257	ASP	SER
S3087	D2990	I2757	V2551	T2468	V2330	F2260	VAL	SER
Y3090	E2991	I2757	V2552	T2468	M2331	S2261	VAL	SER
L3091	R2992	E2760	H2553	C2469	E2332	G2187	PRO	GLN
D3095	L2993	E2761	F2554	R2470	R2333	D2264	D2121	ASP
D3097	C3001	Q2765	L2555	E2471	R2334	P2265	L2122	PRO
R3098	H3004	R2773	S2556	Q2472	M2335	M2266	L2123	ARG
A3099	L3005	S2774	M2560	M2473	L2336	S2267	S2124	ALA
K3100	A3006	S2775	L2563	E2473	L2337	K2268	W2125	THR
R3102	E3007	P2781	E2564	L2477	L2337	D2269	M2126	GLY
I3103	D3007	L2782	M2565	D2486	E2339	N2270	K2127	ARG
Q3104	W3008	P2783	M2569	PRO	S2340	S2271	F2128	PHE
Y3105	W3009	Q2784	S2570	GLU	L2341	I2274	L2129	ARG
G3106	K3009	Q2785	P2571	GLU	C2342	I2274	H2130	ARG
I3107	L3010	L2785	D2572	GLU	E2343	Q2275	G2131	ARG
Q3108	L3011	K2786	Y2572	GLU	L2344	L2276	L2133	GLU
S3109	E3012	R2787	D2577	T2491	V2345	V2280	L2133	GLN
I3110	T3016	H2787	D2577	E2497	A2346	M2281	G2134	ARG
Y3111	E3017	S2788	M2576	I2498	K2347	P2206	M2135	ASP
M3112	S3018	S2789	F2577	F2499	Q2348	D2206	V2138	PRO
N3113	G3022	S2790	P2580	I2498	L2349	K2207	P2139	THR
Y3114	ASN	L2794	L2581	F2499	L2349	D2208	V2138	VAL
K3029	PRO	Q2795	S2582	K2500	K2350	L2285	L2140	VAL
F3110	PRO	A2796	E2583	L2501	Q2351	L2285	L2140	HIS
M3111	ASP	A2796	C2584	M2502	Q2351	Y2288	R2143	ASP
Q3112	LEU	Q2799	E2585	K2503	M2354	Y2288	R2143	ASP
N3113	ASN	R2800	P2586	D2504	T2355	Q2291	L2146	VAL
Y3114	PRO	D2801	F2586	V2505	L2356	C2292	L2146	LEU
I3117	PRO	P2802	E2587	L2506	E2357	G2293	A2147	GLU
M3111	ASP	L2803	E2588	I2507	D2358	I2294	K2148	LEU
Q3112	LEU	I2804	C2584	L2510	K2359	Q2295	L2149	GLU
N3113	ASN	A2885	E2586	L2510	F2360	E2298	V2150	MET
Y3114	ASN	R2806	P2586	I2511	I2361	E2298	E2154	ASP
I3117	K3029	Q2806	Q2587	D2512	V2362	Y2299	E2154	GLU
Y3117	L3030	D2807	E2588	E2513	C2363	F2300	E2155	LEU
I3121	W3031	I2803	Y2589	M2514	M2365	F2303	V2156	LEU
H3122	S3032	I2804	D2894	L2517	K2366	L2303	F2157	ASP
Q3123	E3033	A2885	W2595	Q2518	V2367	V2304	R2158	ASP
S3124	F3034	Q2807	R2596	Q2518	T2368	M2305	P2159	GLU
	Q3037	L2808	F2597	I2521	K2369	M2307	A2161	ASP

R3125	K3192	S3266	SER	ASP	D3507	L3575	LEU	E3838	S3914	H3986	A4047
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	GLU	Q3510	L3578	LYS	W3842	L3918	L3988	A4054
L3129	L3197	L3273	LEU	LEU	A3511	S3579	S3657	L3843	G3919	A3990	M4055
Q3130	THR	L3273	THR	GLN	V3512	E3582	L3851	THR	G3921	ARG	M4055
Q3133	PRO	W3276	PRO	ASP	A3513	L3583	M3860	LYS	D3922	SER	V4068
A3134	LEU	Q3277	LEU	ASP	V3514	L3583	M3860	MET	D3922	ASP	V4068
L3135	PRO	Q3277	PRO	VAL	Q3515	L3583	SER	SER	R3923	PRO	D4062
T3136	GLU	Q3277	GLU	VAL	F3443	K3586	GLY	GLY	H3924	PRO	E4063
T3136	ASP	C3281	ASP	ASP	A3444	K3586	M3664	LYS	L3925	GLY	E4063
E3137	ASN	Y3282	ASN	ASP	L3445	S3575	M3665	HIS	N3926	L3998	L4064
L3138	SER	R3283	SER	ASP	V3446	V3518	L3668	D3951	N3927	L3998	L4064
L3138	MET	R3283	MET	GLY	L3447	F3519	L3668	D3951	N3927	L3998	L4064
Q3139	MET	S3284	MET	GLY	E3448	E3520	L3668	D3951	N3927	L3998	L4064
E3140	ASN	S3284	ASN	GLY	E3448	E3520	L3668	D3951	N3927	L3998	L4064
F3141	ASN	C3286	ASN	GLY	I3521	V3582	M3871	M3855	M3929	M4000	H4068
L3142	VAL	C3286	VAL	GLY	K3449	R3593	M3871	M3855	M3929	M4000	H4068
R3143	ASP	R3287	ASP	ASP	K3450	R3593	M3871	M3855	M3929	M4000	H4068
R3143	GLN	R3288	GLN	ASP	N3524	E3595	K3675	K3857	M3932	T4001	A4071
F3144	ASP	R3289	ASP	ASP	K3452	L3596	P3676	K3858	M3932	M4002	F4074
L3145	ASP	R3289	ASP	ASP	A3453	A3597	P3677	Y3859	E3933	D4003	F4074
L3145	GLY	C3293	GLY	ASP	V3530	LYS	K3681	K3860	G3936	V4004	Y4077
S3146	ASP	C3293	ASP	ASP	Y3531	THR	K3681	K3860	G3936	V4005	Y4077
K3147	PRO	Q3296	PRO	PRO	P3532	PRO	E3682	T3864	V3937	V4006	R4082
L3150	SER	Q3296	SER	ALA	F3533	V3601	C3683	T3865	I3938	P4009	G4083
L3151	ARG	V3300	ARG	ALA	I3534	N3602	S3684	E3866	G3939	S4010	S4084
S3152	MET	L3301	MET	PRO	I3535	K3603	S3684	E3866	D3941	F4011	K4085
S3153	GLU	L3301	GLU	PRO	S3639	K3606	S3688	T3869	F3942	D4012	K4085
Q3154	VAL	V3304	VAL	ALA	TYR	I3606	T3869	T3869	F3946	W4013	R4090
K3158	GLN	S3305	GLN	ALA	PHE	Y3610	V3692	F3871	G3947	A4091	Q4092
K3158	GLU	L3306	GLU	TRP	SER	Y3614	L3695	F3871	S3948	Q4092	Q4092
K3162	GLU	L3306	GLU	TRP	LYS	A3615	R3696	K3873	A3949	GLJ	E4093
T3163	GLU	R3311	GLU	ASP	ASP	A3616	M3697	R3874	T3950	GLN	E4093
K3164	GLU	R3311	GLU	ASP	T3645	A3616	E3875	E3875	Q3951	GLN	E4096
T3165	GLU	S3314	GLU	PRO	S3546	L3617	E3700	S3876	P3956	MET	G4097
T3165	GLU	Y3315	GLU	ALA	S3546	L3617	E3700	S3876	P3956	MET	G4097
R3167	GLU	L3316	GLU	ALA	T3647	G3618	I3701	K3877	S3792	L3979	G4097
R3167	GLU	S3317	GLU	ALA	G3548	D3619	P3702	K3877	S3792	L3979	G4097
F3168	GLU	R3318	GLU	ALA	H3549	P3620	P3702	K3877	S3792	L3979	G4097
F3169	GLU	R3318	GLU	ALA	K3550	K3621	Y3705	A3880	M3959	GLY	E4100
D3170	M3240	F3323	M3240	ALA	M3551	A3622	E3714	D3881	P3960	GLY	E4100
K3241	K3241	R3324	K3241	ALA	K3552	A3622	E3714	D3881	P3960	GLY	E4100
K3172	M3242	R3324	M3242	ALA	K3552	A3622	E3714	D3881	P3960	GLY	E4100
L3243	L3243	F3326	L3243	ALA	E3553	G3626	V3717	L3883	R3962	TRP	K4105
D3244	D3244	Q3327	D3244	ALA	F3554	R3629	R3718	L3883	R3962	TRP	K4105
S3175	S3246	R3327	S3246	ALA	V3555	R3629	R3718	L3883	R3962	TRP	K4105
K3176	A3246	I3337	K3176	ALA	I3558	K3630	A3720	L3803	Q3966	ILE	D4109
N3177	A3246	I3337	N3177	ALA	K3559	K3630	A3720	L3803	Q3966	ILE	D4109
L3178	N3250	A3338	L3178	ALA	K3559	K3630	A3720	L3803	Q3966	ILE	D4109
K3257	N3250	A3338	K3257	ALA	K3559	K3630	A3720	L3803	Q3966	ILE	D4109
L3183	L3254	R3357	L3183	ALA	L3562	F3632	D3723	L3817	N3969	VAL	D4113
L3184	L3254	R3357	L3184	ALA	D3632	F3632	E3724	L3817	N3969	VAL	D4113
N3185	L3254	R3357	N3185	ALA	L3562	F3632	E3724	L3817	N3969	VAL	D4113
F3188	L3254	R3357	F3188	ALA	L3562	F3632	E3724	L3817	N3969	VAL	D4113
F3189	L3254	R3357	F3189	ALA	L3562	F3632	E3724	L3817	N3969	VAL	D4113
L3190	L3262	R3362	L3190	ALA	L3562	F3632	E3724	L3817	N3969	VAL	D4113
S3191	H3263	S3363	S3191	ILE	A3574	L3506	H3743	C3837	C3837	Y4046	P4126

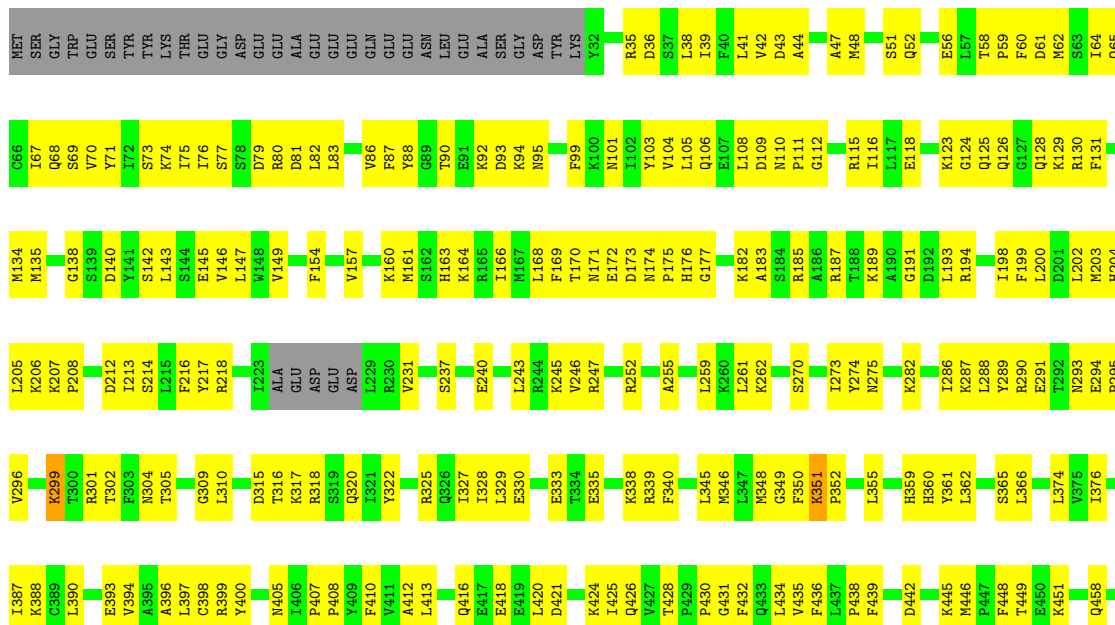
• Molecule 2: X-ray repair cross-complementing protein 6

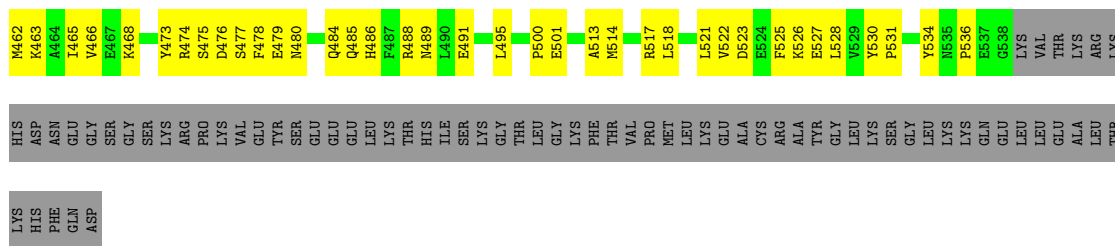




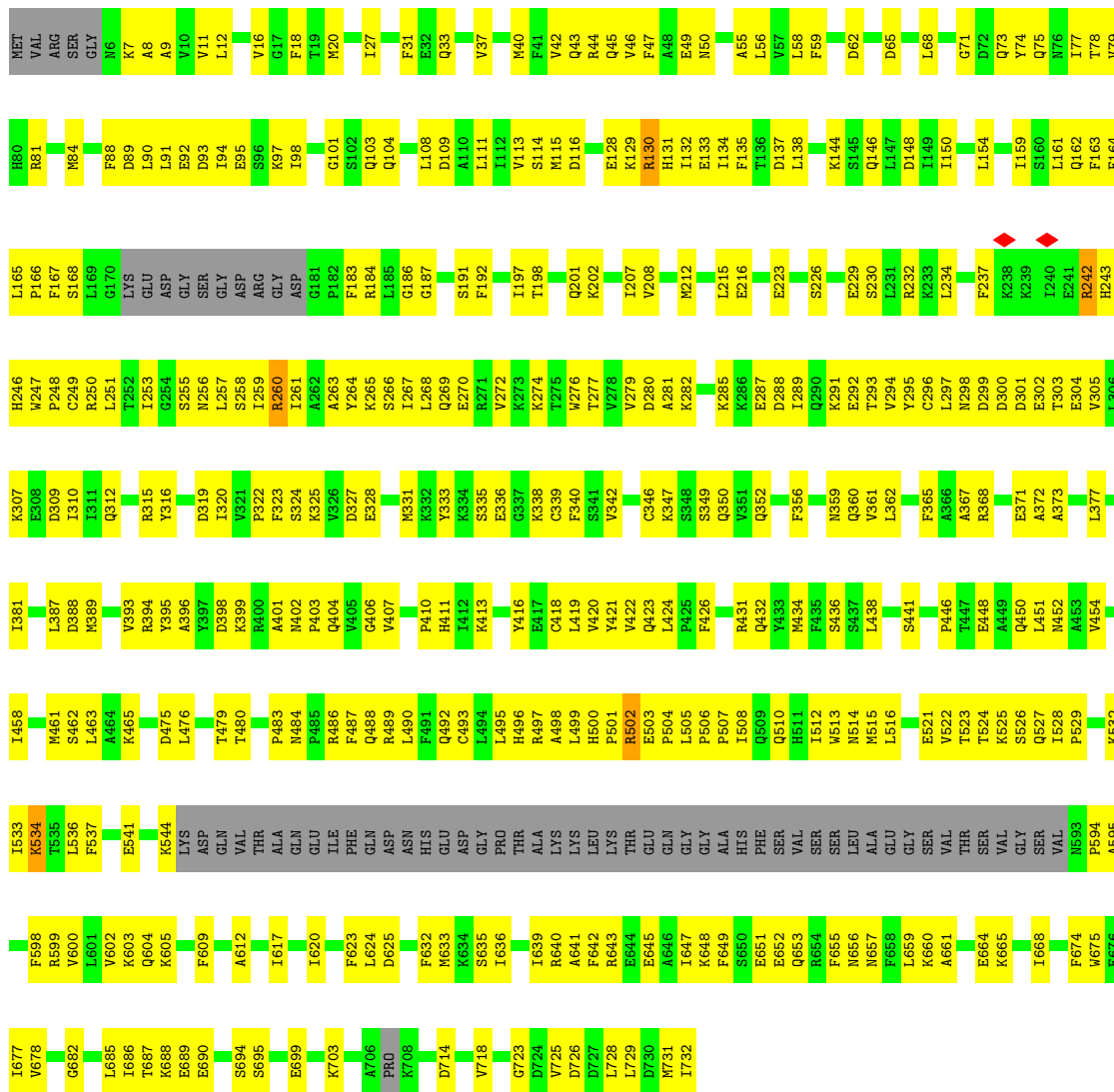
• Molecule 2: X-ray repair cross-complementing protein 6

Chain T: 40% 42% 18%

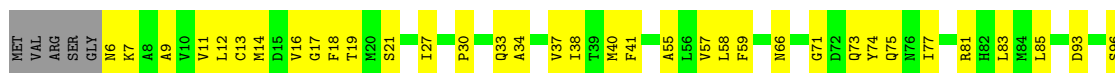


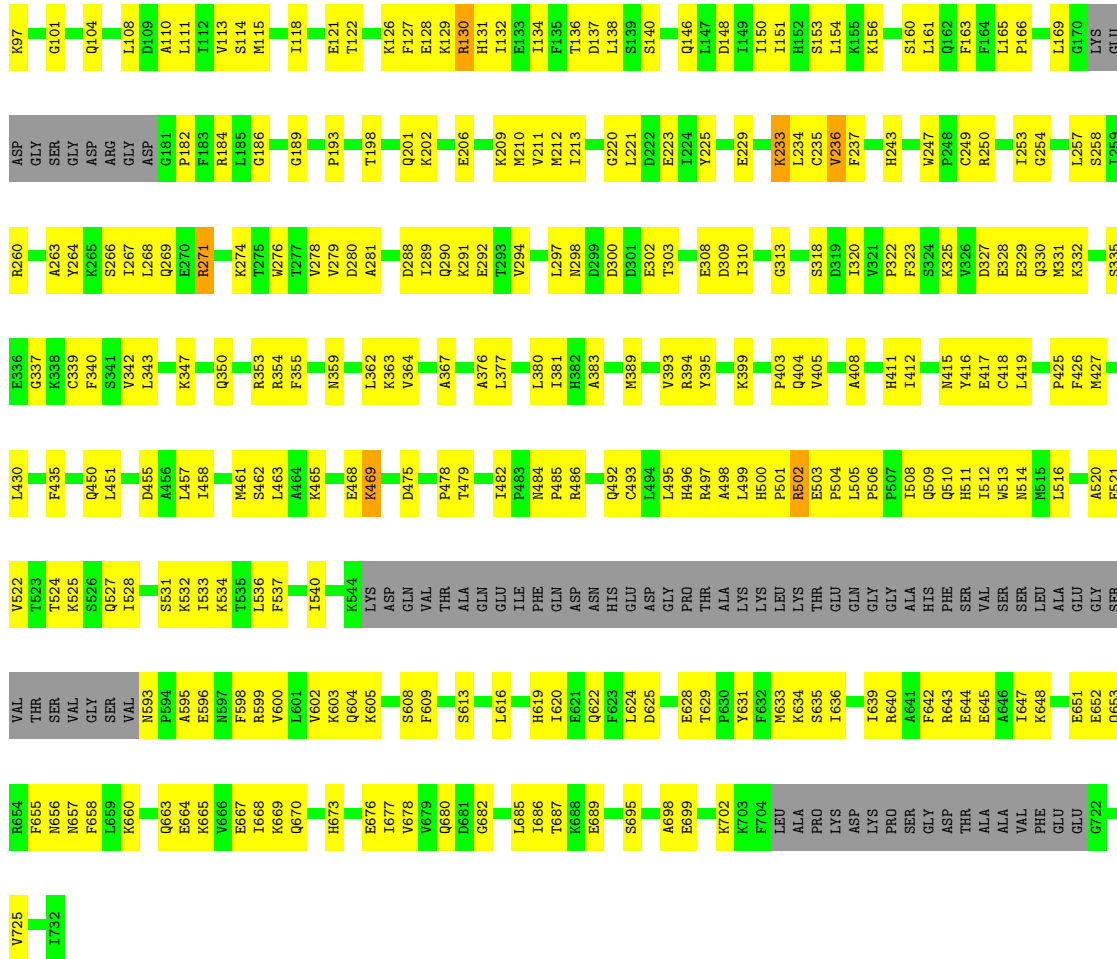


• Molecule 3: X-ray repair cross-complementing protein 5

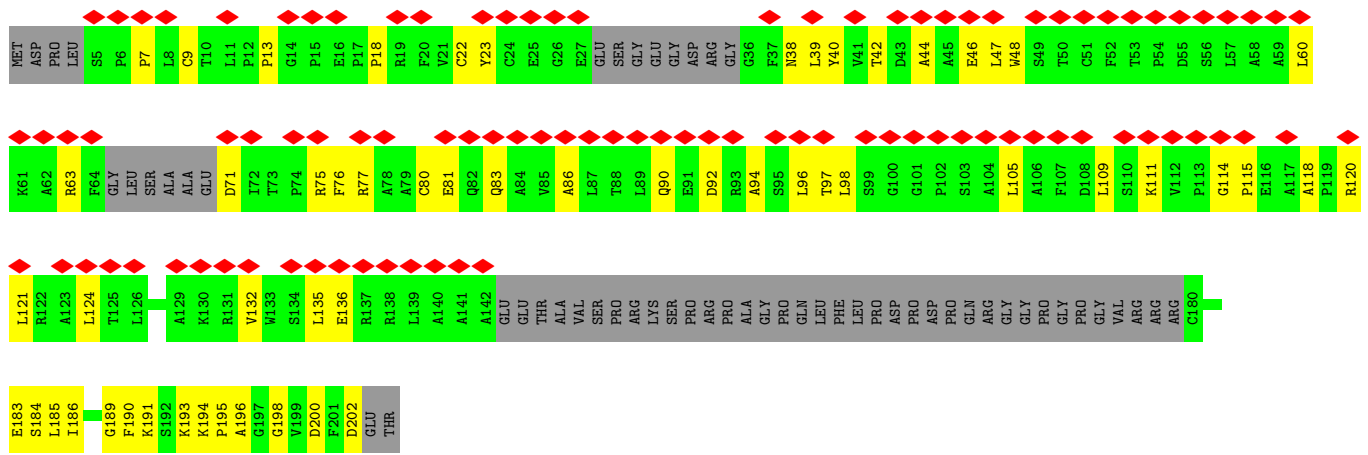
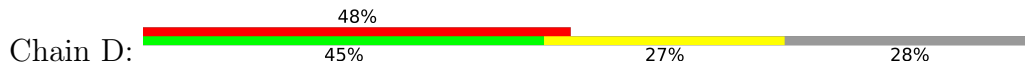


• Molecule 3: X-ray repair cross-complementing protein 5



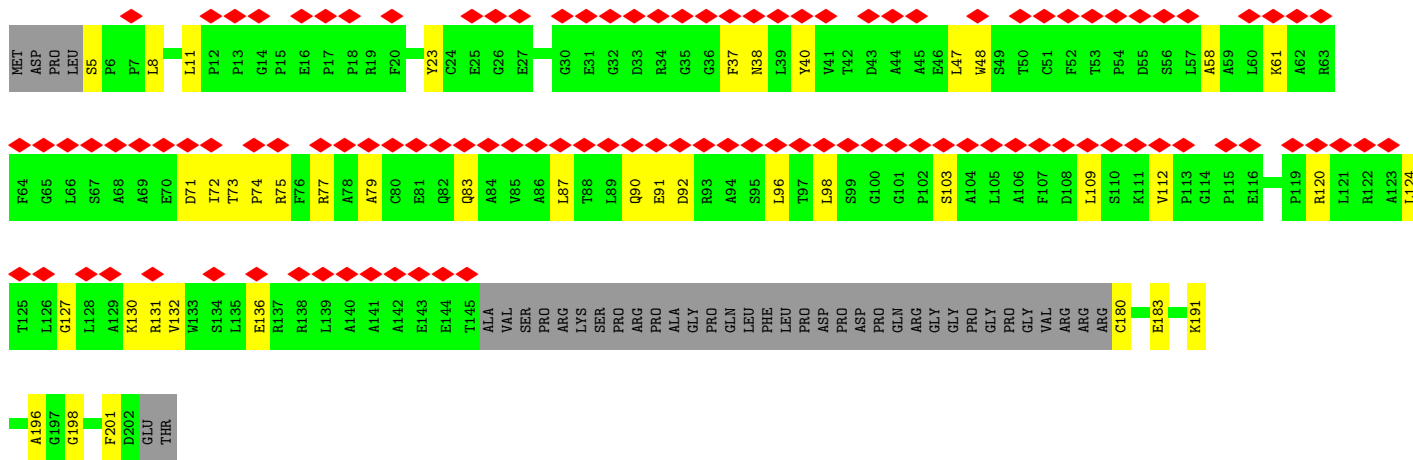


● Molecule 4: Protein PAXX

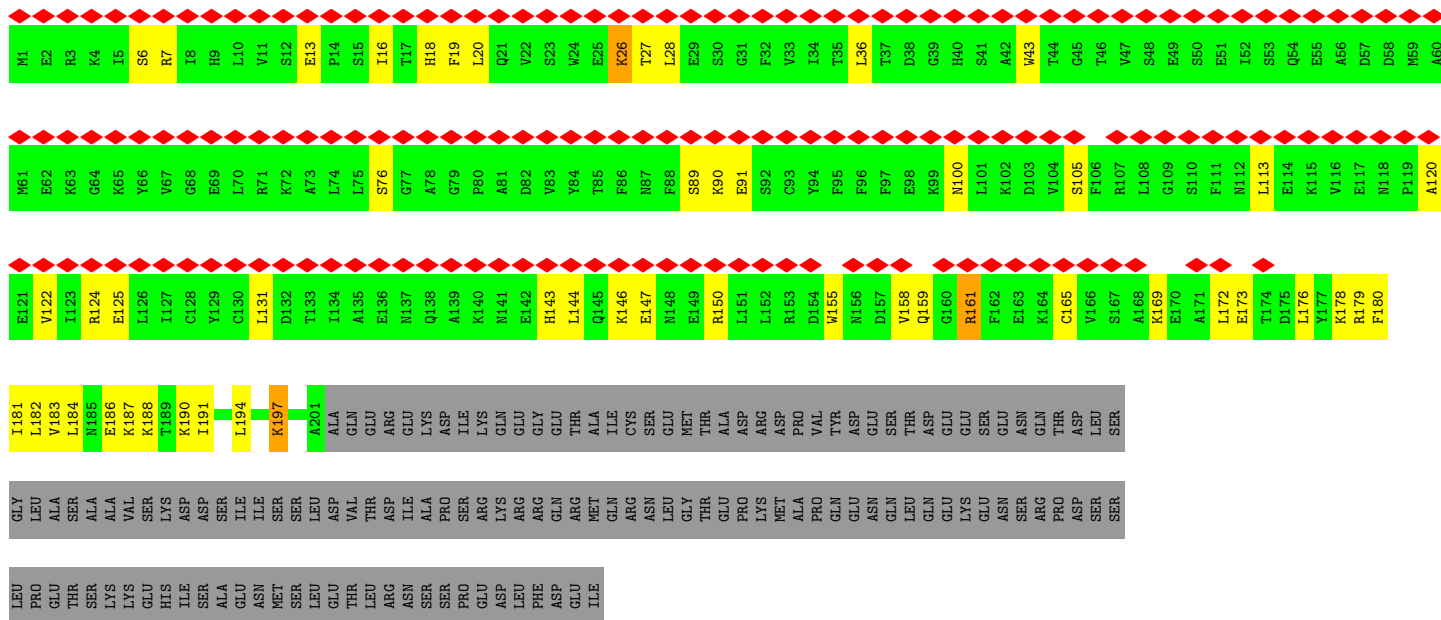


● Molecule 4: Protein PAXX

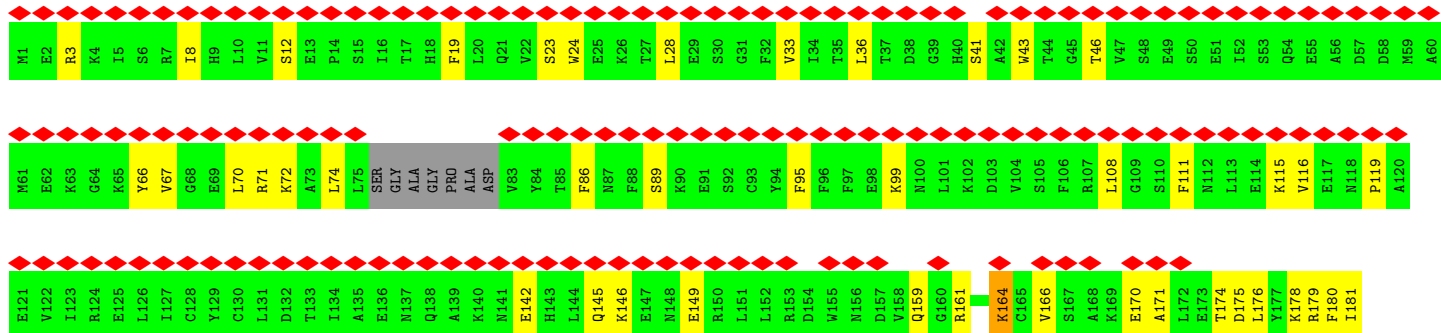
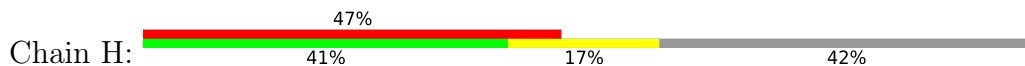


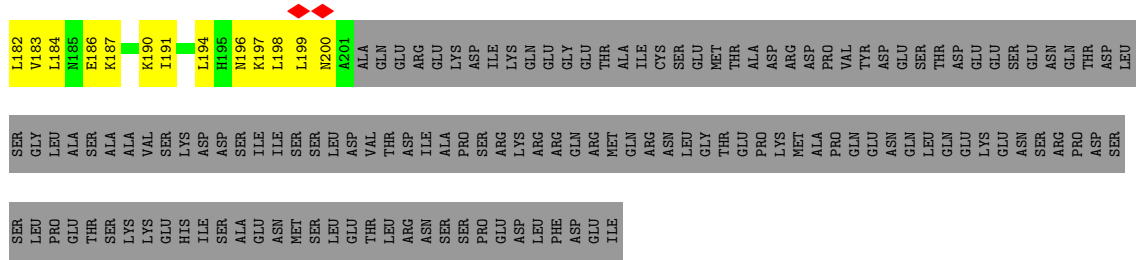


• Molecule 5: DNA repair protein XRCC4

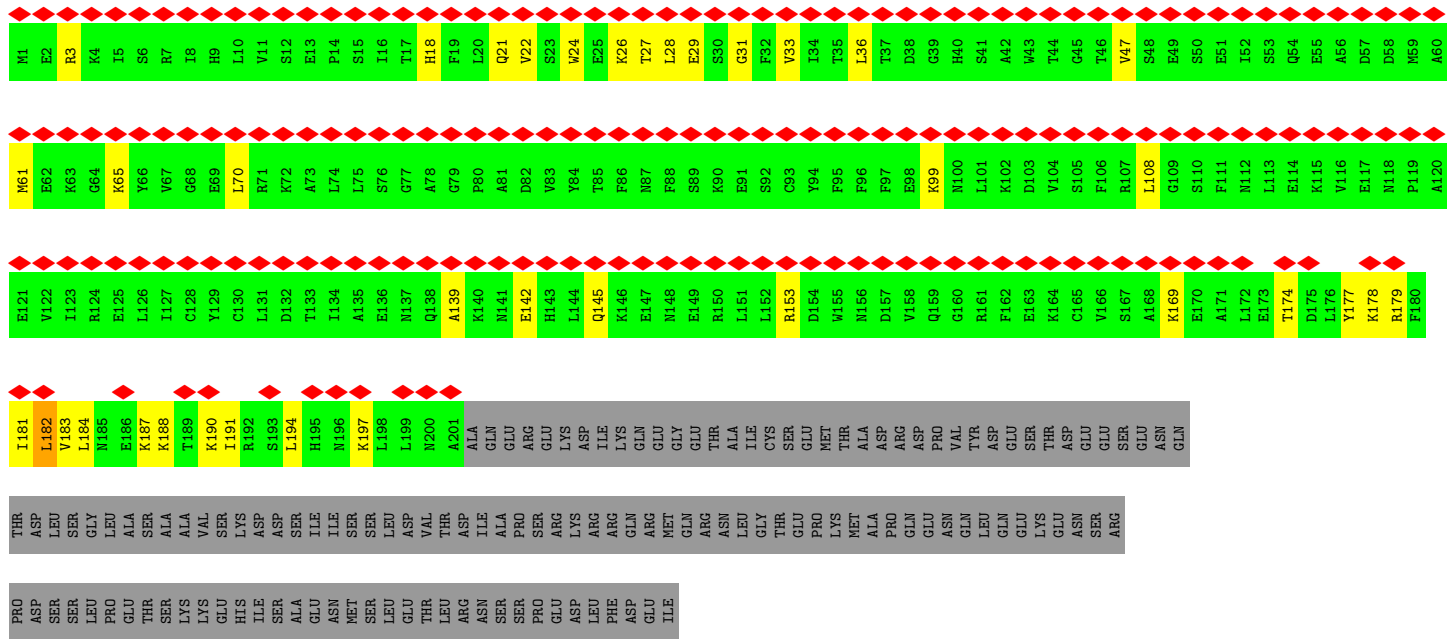


• Molecule 5: DNA repair protein XRCC4

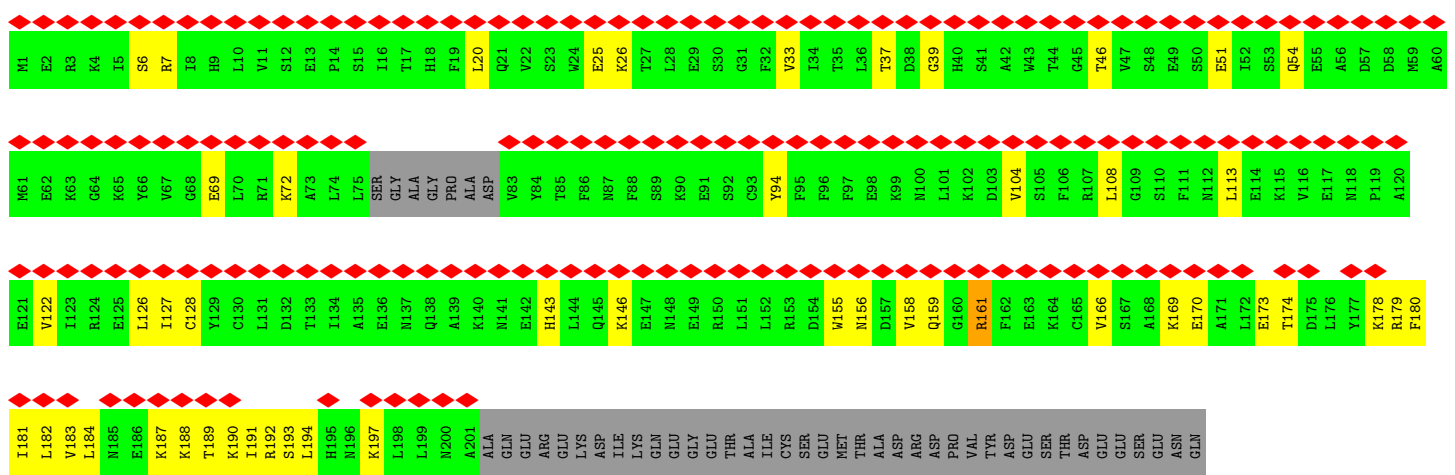
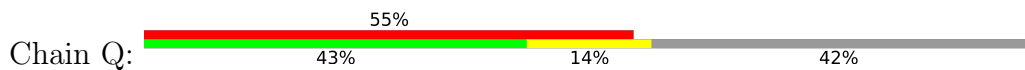




● Molecule 5: DNA repair protein XRCC4



● Molecule 5: DNA repair protein XRCC4



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 GLU CYS
 PRO MET
 LEU LEU
 ALA ALA
 SER SER
 PRO PRO
 SER SER
 VAL VAL
 SER SER
 GLN GLN
 HIS HIS
 LEU LEU
 ILE ILE
 ARG ARG
 PRO PRO
 LEU LEU
 MET MET
 GLY GLY
 SER SER
 MET MET
 LEU LEU
 ALA ALA
 GLY GLY
 ASP ASP
 LEU LEU
 HIS HIS
 MET MET
 LYS LYS
 ASP ASP
 LEU LEU
 THR THR
 HIS HIS
 LEU LEU
 THR THR
 ASP ASP
 ARG ARG
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 F293
 S299

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.

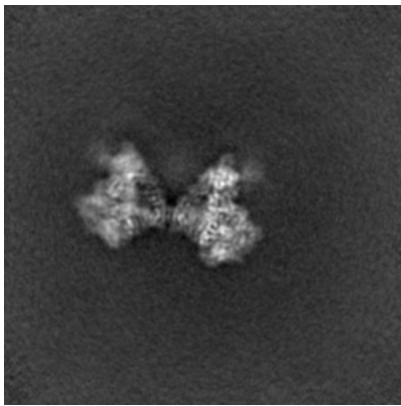
6 Map visualisation [i](#)

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.

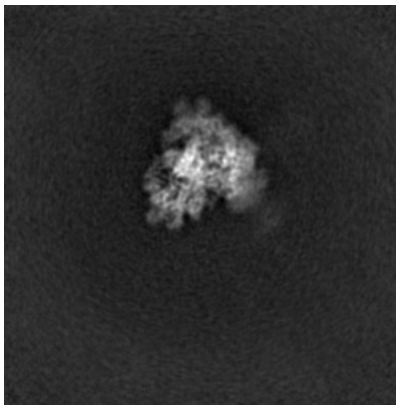
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

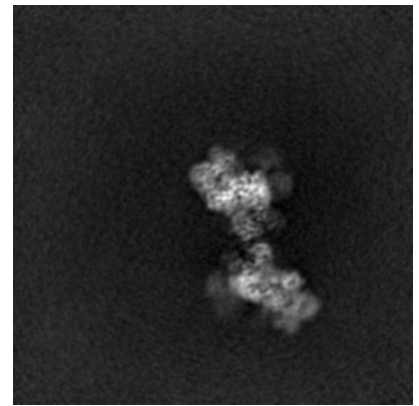
6.1.1 Primary map



X

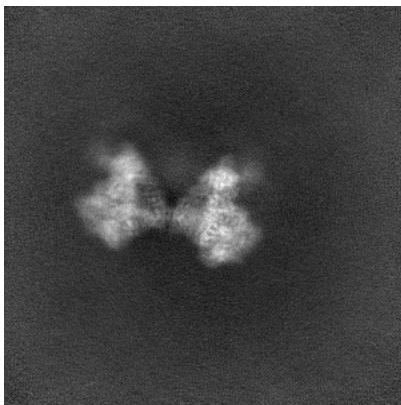


Y



Z

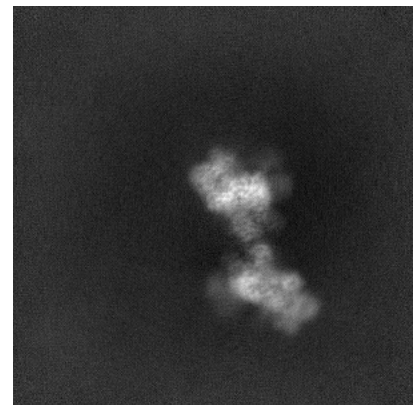
6.1.2 Raw map



X



Y

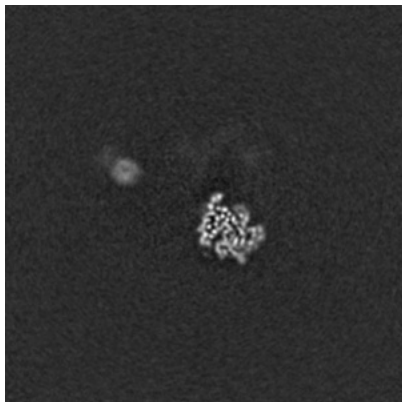


Z

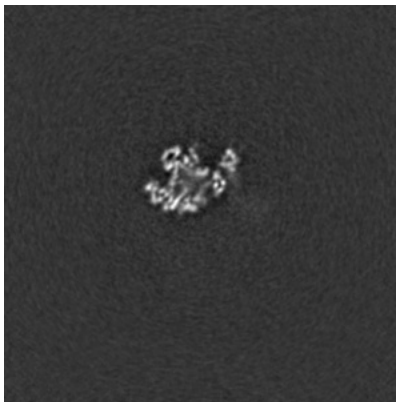
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

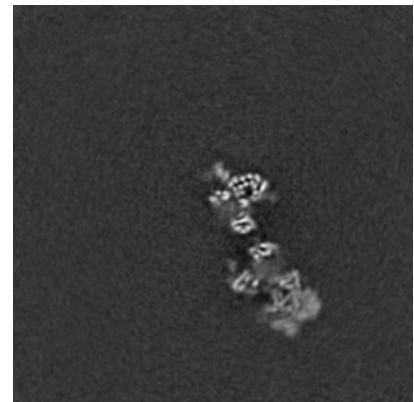
6.2.1 Primary map



X Index: 260

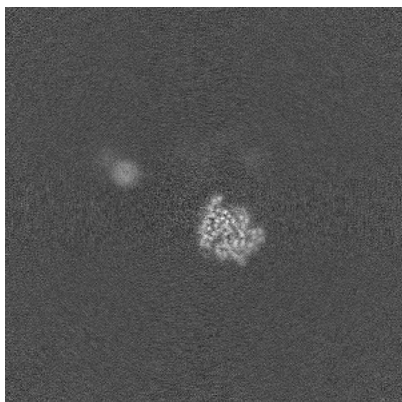


Y Index: 260



Z Index: 260

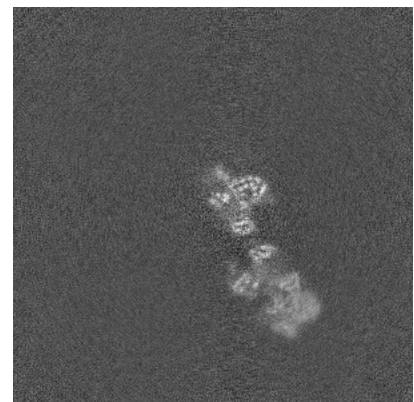
6.2.2 Raw map



X Index: 260



Y Index: 260

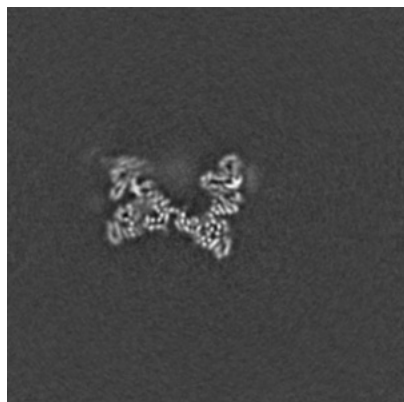


Z Index: 260

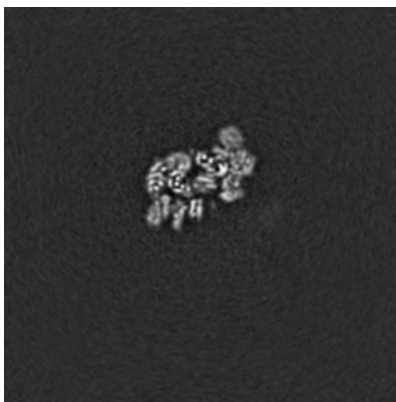
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

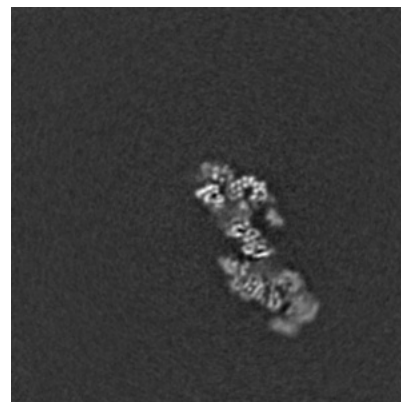
6.3.1 Primary map



X Index: 316

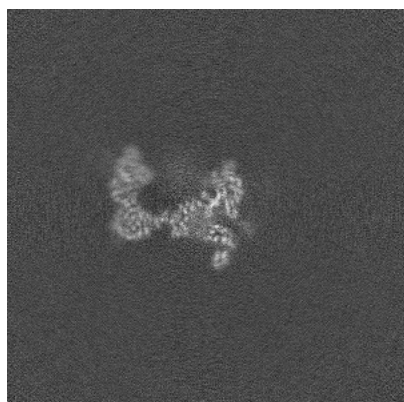


Y Index: 283

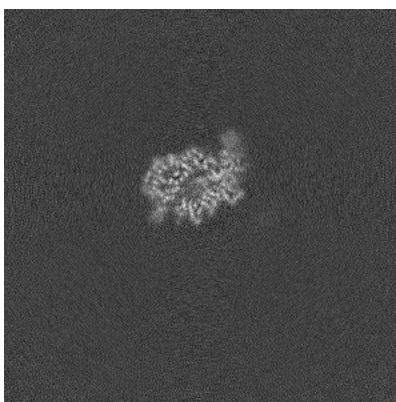


Z Index: 253

6.3.2 Raw map



X Index: 302



Y Index: 275

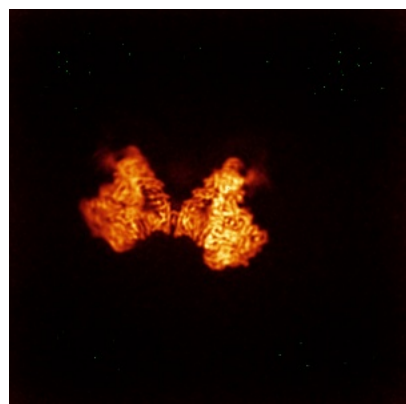


Z Index: 242

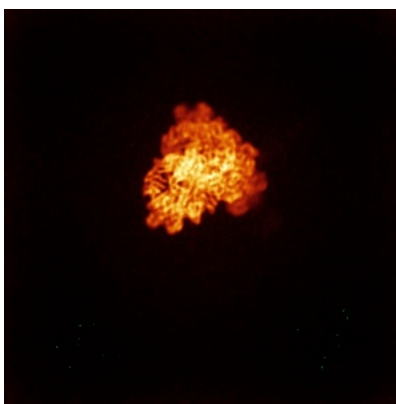
The images above show the largest variance slices of the map in three orthogonal directions.

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

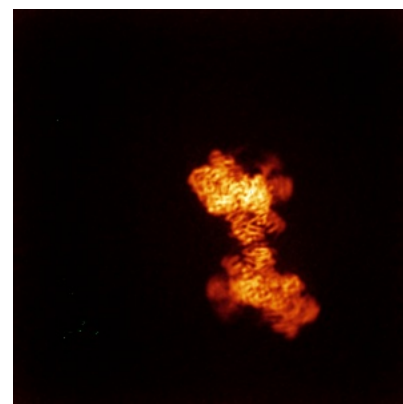
6.4.1 Primary map



X

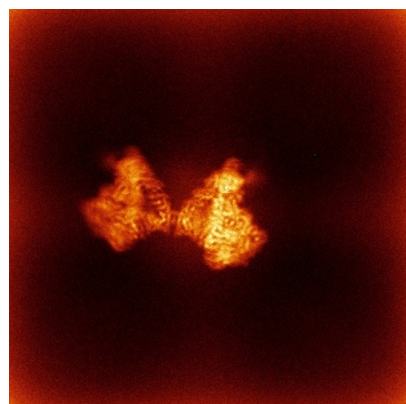


Y

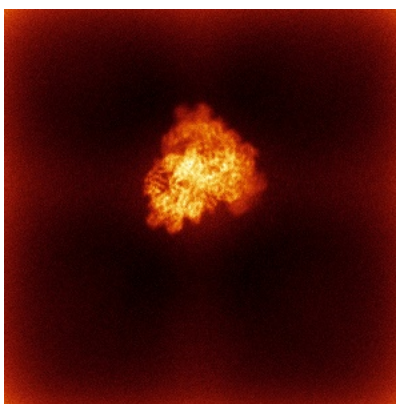


Z

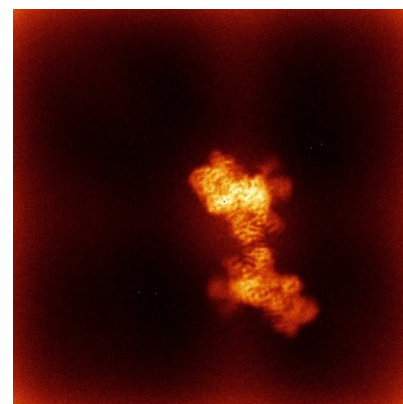
6.4.2 Raw map



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



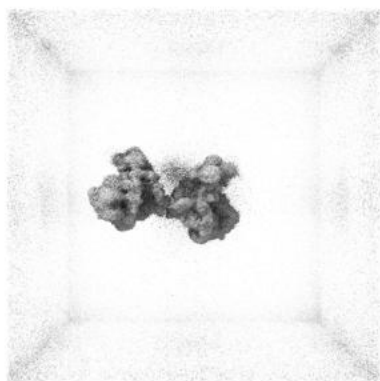
Y



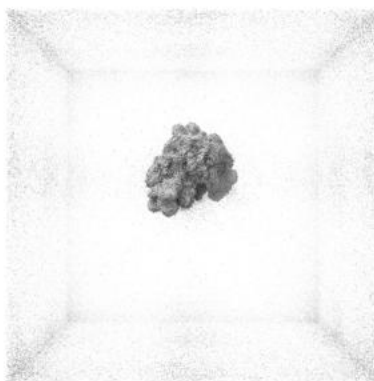
Z

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.

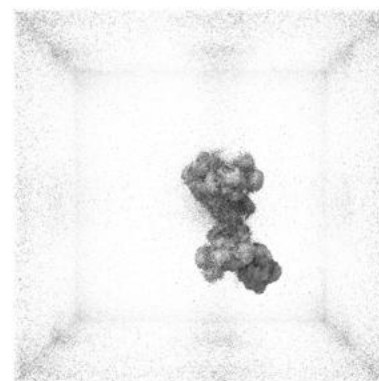
6.5.2 Raw map



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.

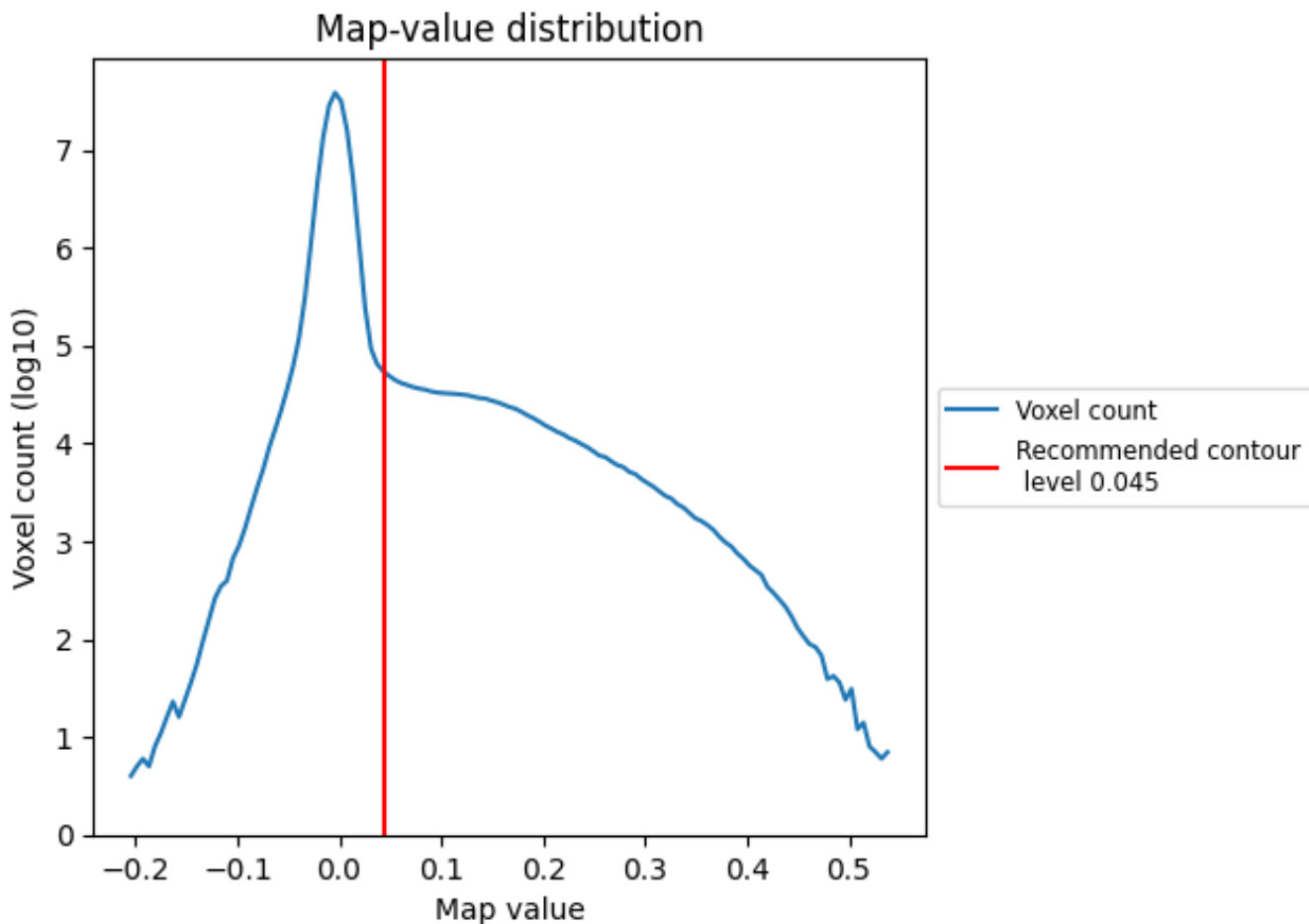
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

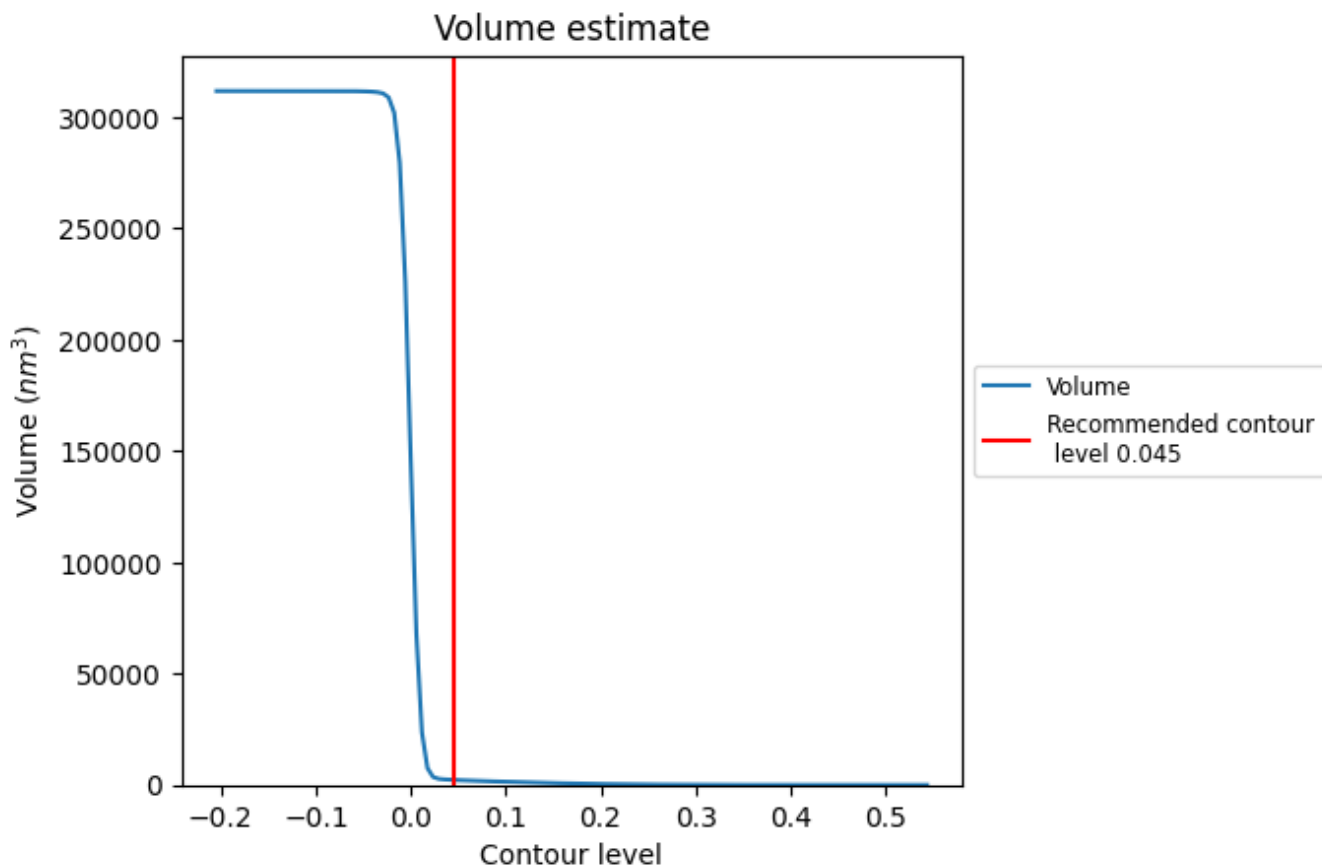
This section contains the results of statistical analysis of the map.

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.

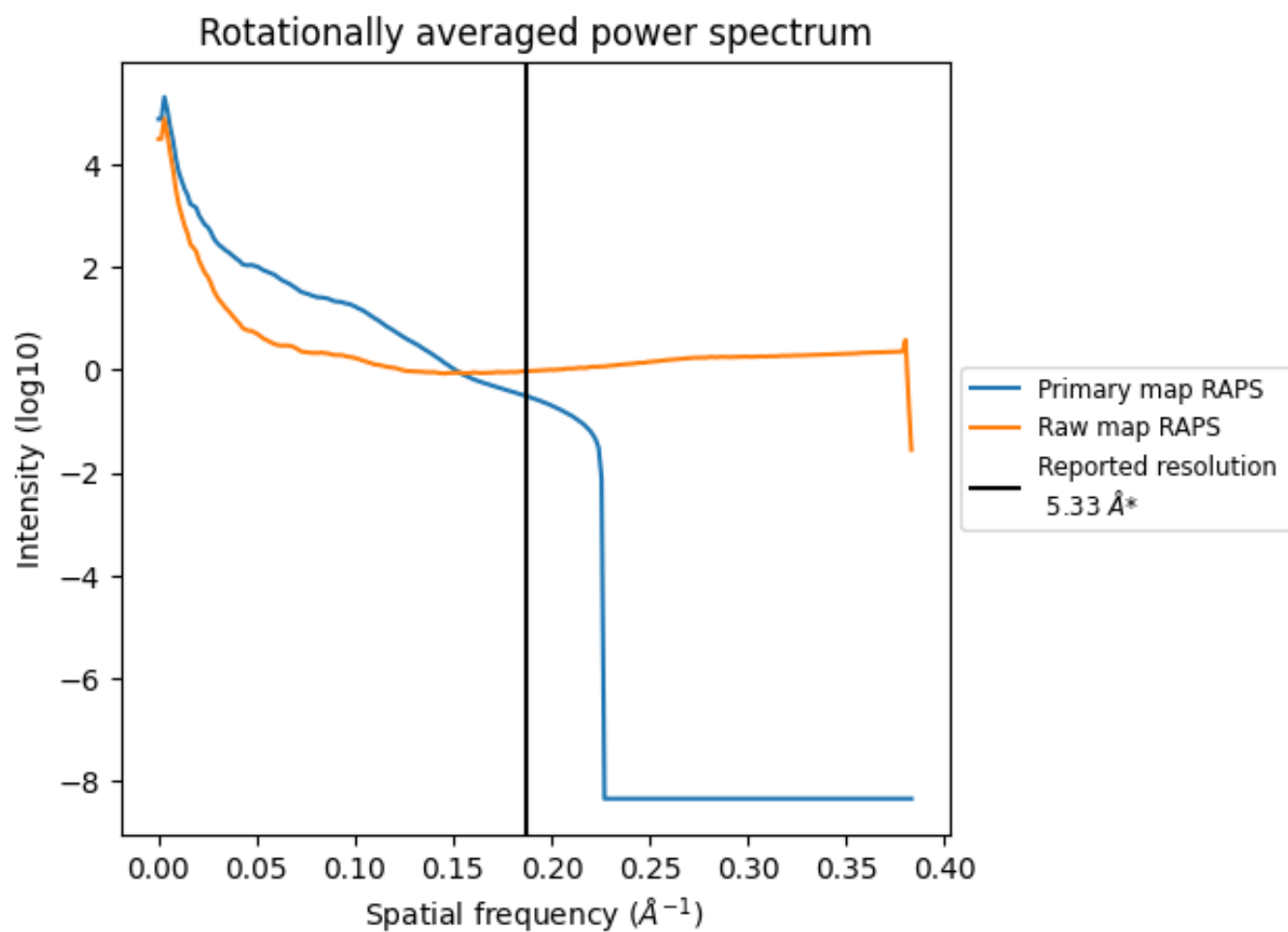
7.2 Volume estimate [i](#)



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 [\(i\)](#)

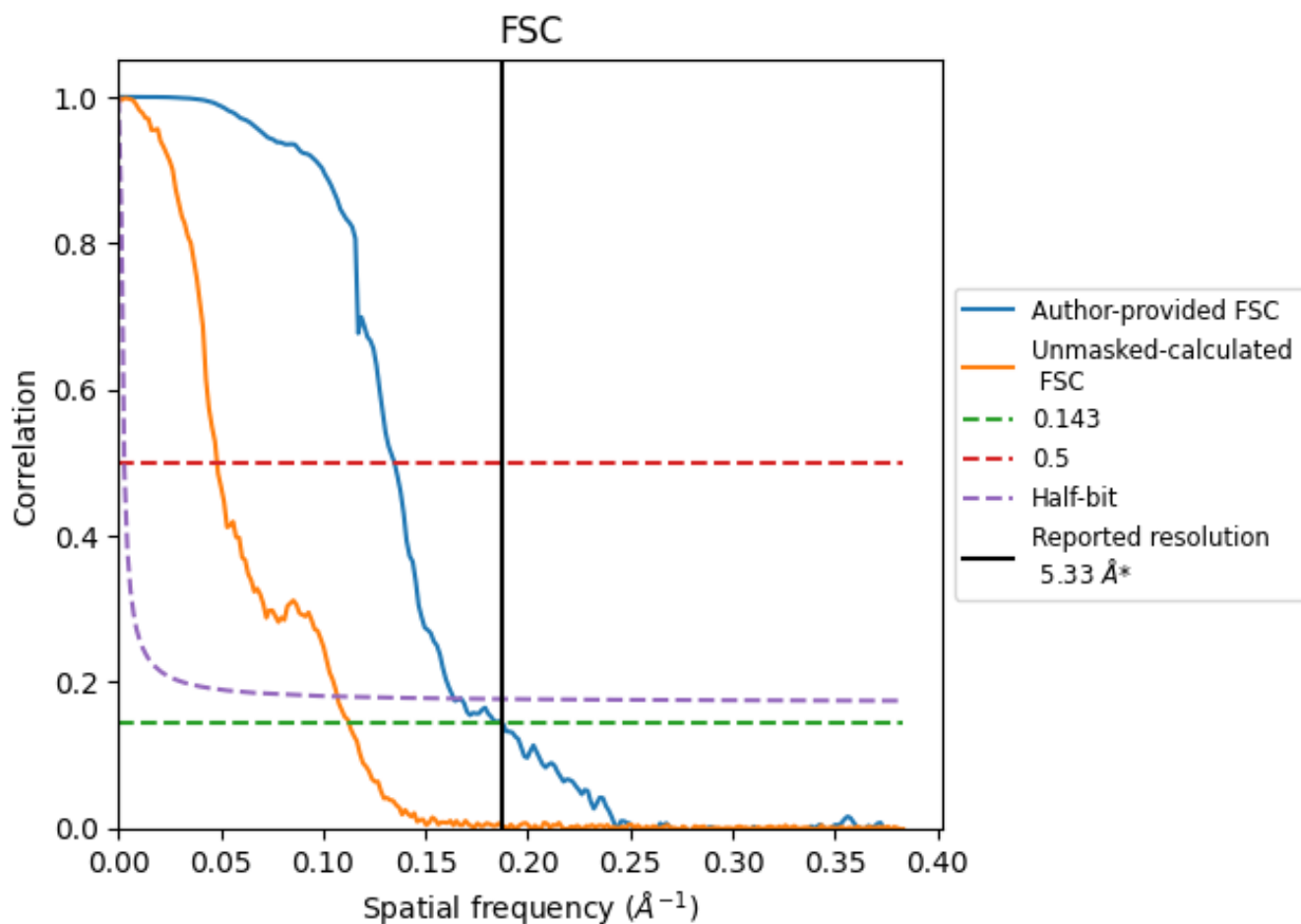


*Reported resolution corresponds to spatial frequency of 0.188 Å⁻¹

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](#)

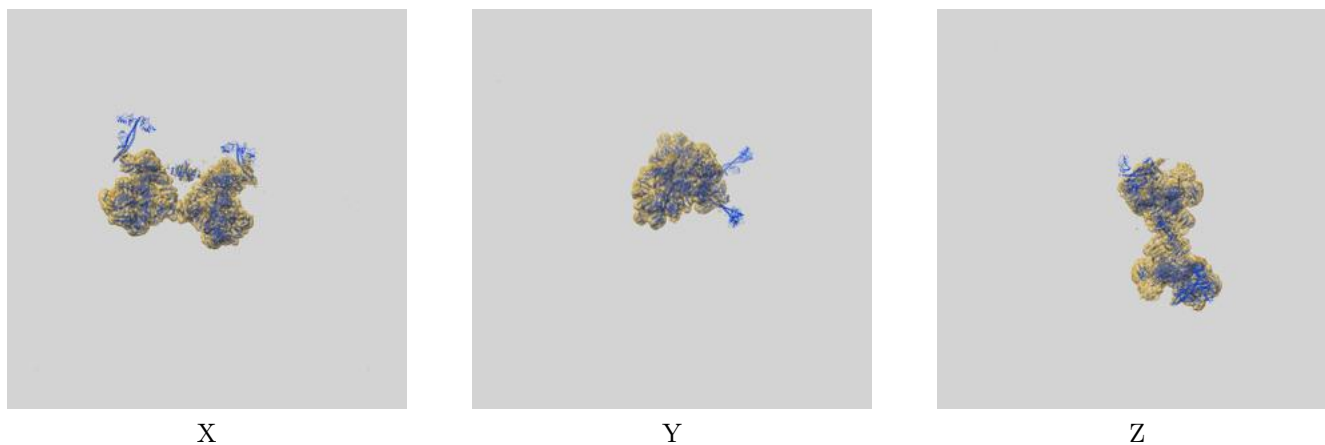
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	5.33	-	-
Author-provided FSC curve	5.33	7.42	6.10
Unmasked-calculated*	8.88	20.79	9.35

*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](#)

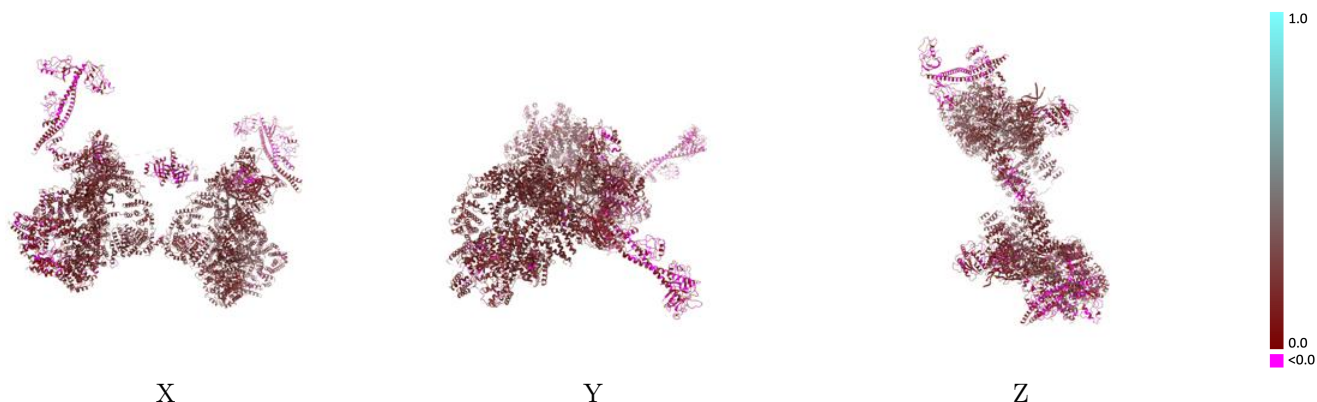
This section contains information regarding the fit between EMDB map EMD-16074 and PDB model 8BHY. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



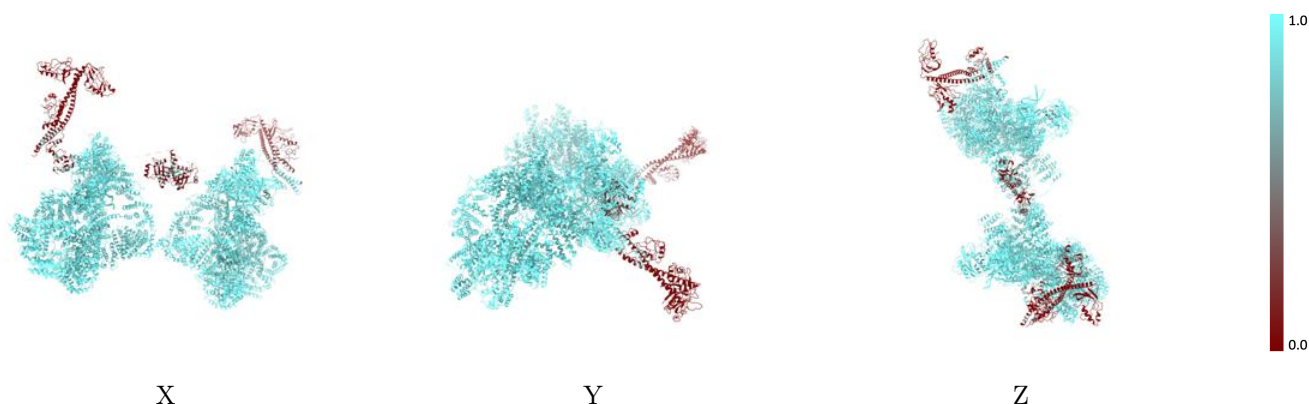
The images above show the 3D surface view of the map at the recommended contour level 0.045 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



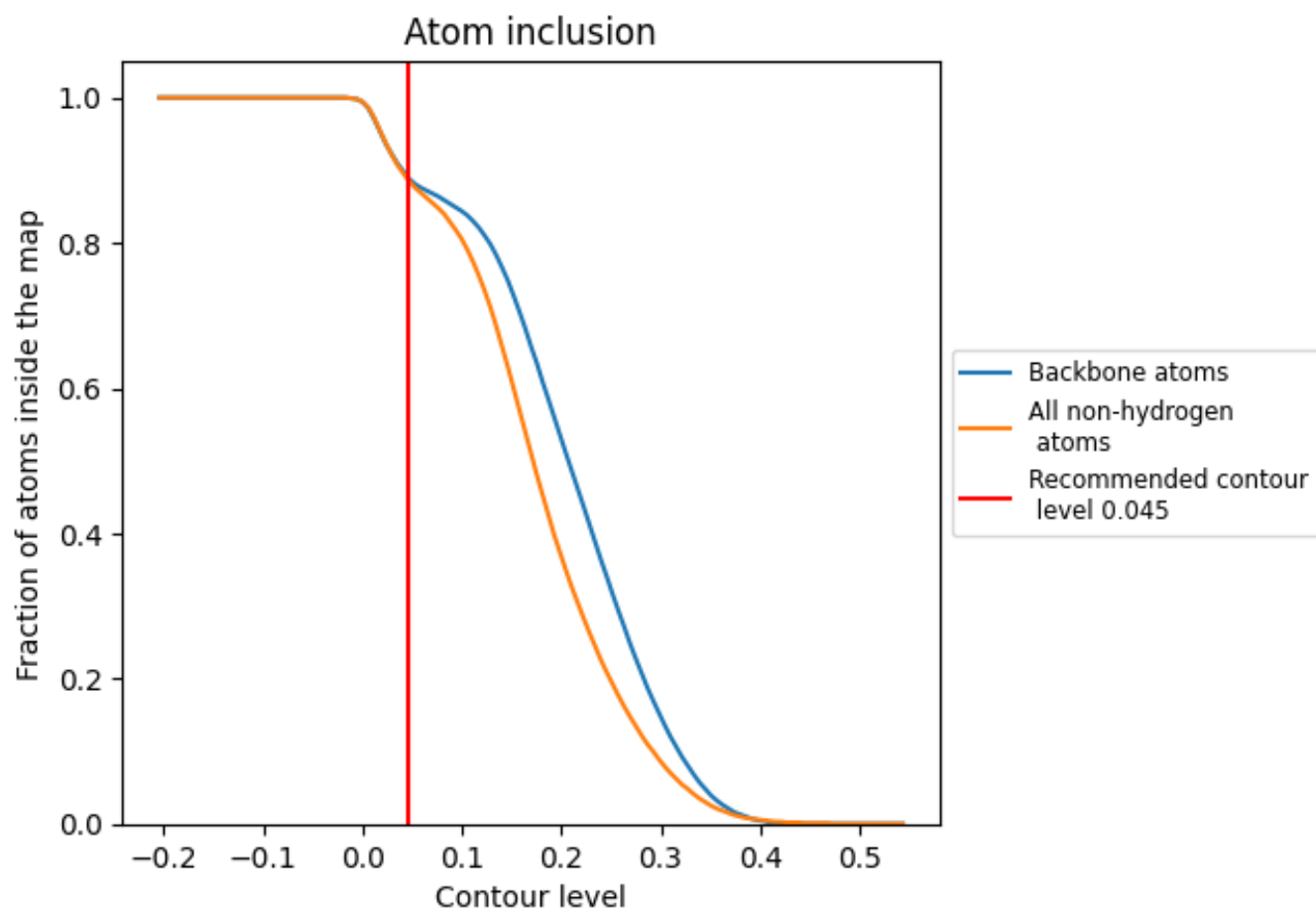
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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	 0.0910
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

