



Full wwPDB EM Validation Report ⓘ

Aug 8, 2023 – 03:20 pm BST

PDB ID : 8BOT
EMDB ID : EMD-16145
Title : Cryo-EM structure of NHEJ supercomplex(trimer)
Authors : Hardwick, S.W.; Chaplin, A.K.
Deposited on : 2022-11-15
Resolution : 7.76 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) : 2.35

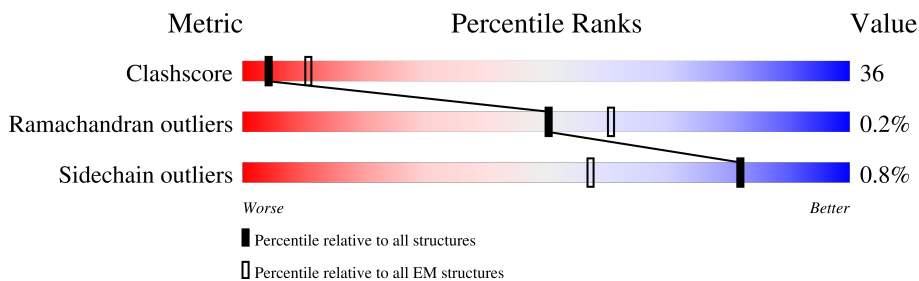
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.76 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.



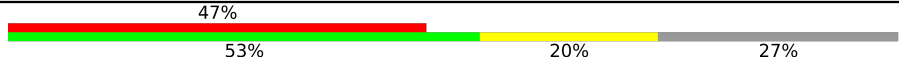

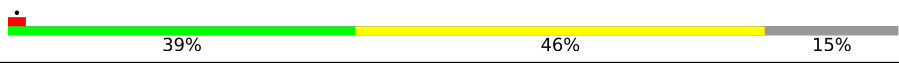
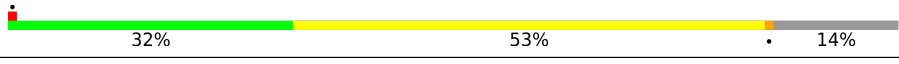
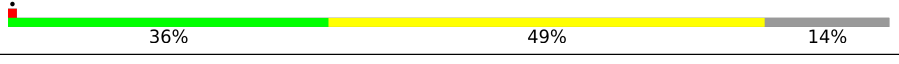
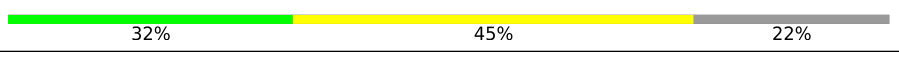
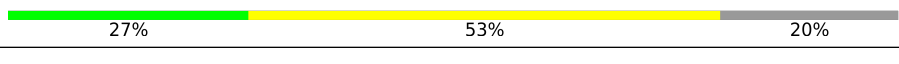
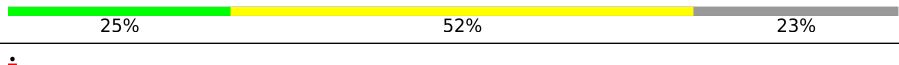
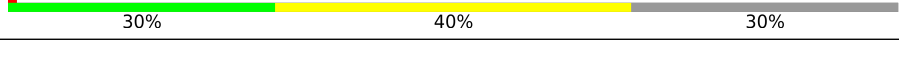
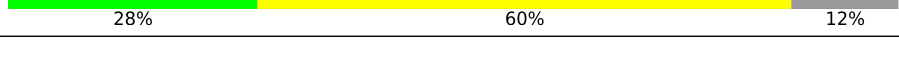

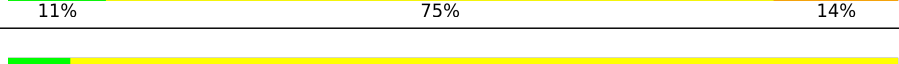
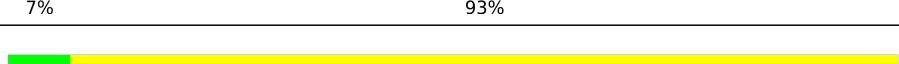
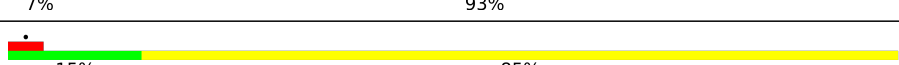
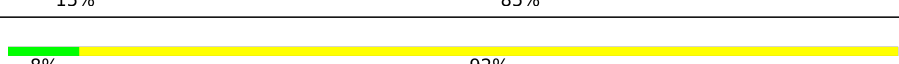
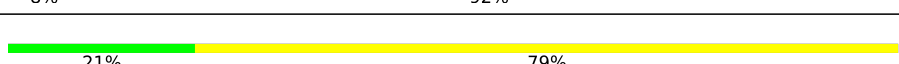
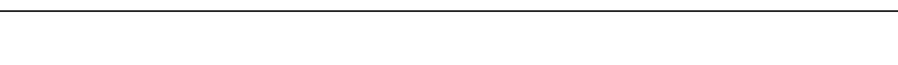
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	K	336	
1	L	336	
1	N	336	
1	O	336	
2	M	911	
2	P	911	
3	Q	299	
3	R	299	

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Mol	Chain	Length	Quality of chain
3	X	299	
3	Y	299	
4	A	4128	
4	F	4128	
4	S	4128	
5	B	609	
5	G	609	
5	T	609	
6	C	732	
6	H	732	
6	U	732	
7	I	28	
7	V	28	
8	J	27	
8	W	27	
9	D	24	
10	E	24	

2 Entry composition [i](#)

There are 10 unique types of molecules in this entry. The entry contains 129197 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 repair protein XRCC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	K	201	Total 1618	C 1025	N 277	O 310	S 6	0	0
1	L	195	Total 1579	C 1001	N 271	O 301	S 6	0	0
1	N	201	Total 1625	C 1028	N 278	O 312	S 7	0	0
1	O	195	Total 1577	C 999	N 269	O 302	S 7	0	0

- Molecule 2 is a protein called DNA ligase 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	M	258	Total 2087	C 1327	N 353	O 394	S 13	0	0
2	P	258	Total 2091	C 1331	N 353	O 394	S 13	0	0

- Molecule 3 is a protein called Non-homologous end-joining factor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	Q	218	Total 1723	C 1099	N 290	O 319	S 15	0	0
3	R	218	Total 1739	C 1113	N 290	O 321	S 15	0	0
3	X	218	Total 1733	C 1108	N 290	O 320	S 15	0	0
3	Y	218	Total 1739	C 1113	N 290	O 321	S 15	0	0

- Molecule 4 is a protein called DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	F	3535	Total	C	N	O	S	0	0
			27665	17763	4658	5065	179		
4	A	3528	Total	C	N	O	S	0	0
			27365	17573	4573	5050	169		
4	S	3536	Total	C	N	O	S	0	0
			27830	17880	4691	5078	181		

- Molecule 5 is a protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	G	489	Total	C	N	O	S	0	0
			3924	2515	667	724	18		
5	B	473	Total	C	N	O	S	0	0
			3646	2346	606	676	18		
5	T	470	Total	C	N	O	S	0	0
			3764	2404	644	698	18		

- Molecule 6 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	H	642	Total	C	N	O	S	0	0
			5128	3285	860	958	25		
6	C	511	Total	C	N	O	S	0	0
			3968	2535	662	750	21		
6	U	642	Total	C	N	O	S	0	0
			5143	3292	864	962	25		

- Molecule 7 is a DNA chain called DNA (28-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
7	I	28	Total	C	N	O	P	0	0
			576	277	107	164	28		
7	V	28	Total	C	N	O	P	0	0
			576	277	107	164	28		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
8	J	27	Total	C	N	O	P	0	0
			557	269	94	167	27		
8	W	27	Total	C	N	O	P	0	0
			557	269	94	167	27		

- Molecule 9 is a DNA chain called DNA (24-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
9	D	24	493	238	92	139	24	0	0

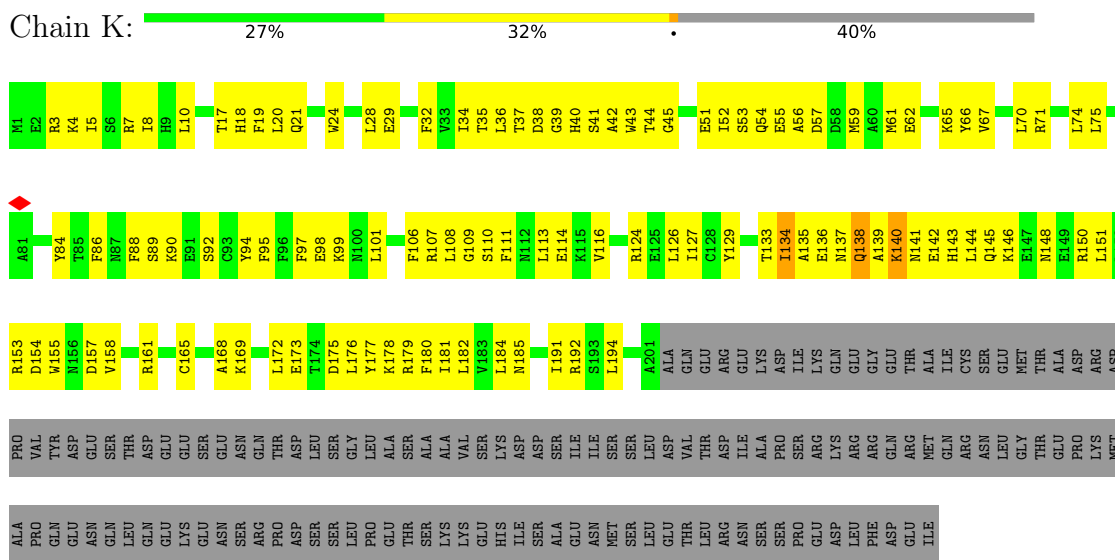
- Molecule 10 is a DNA chain called DNA (24-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
10	E	24	494	240	81	149	24	0	0

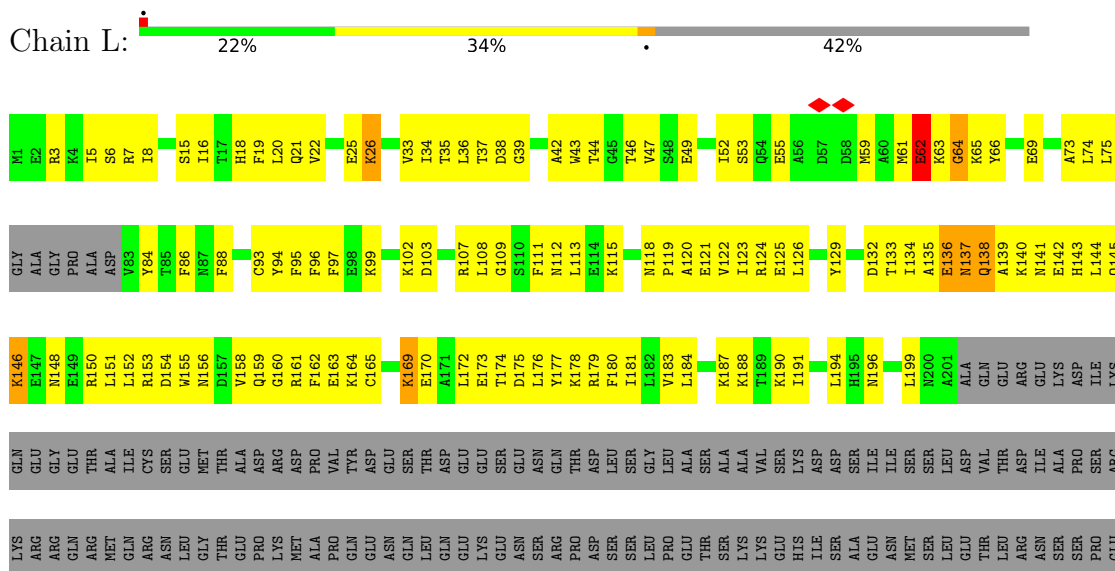
3 Residue-property plots

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

• Molecule 1: DNA repair protein XRCC4



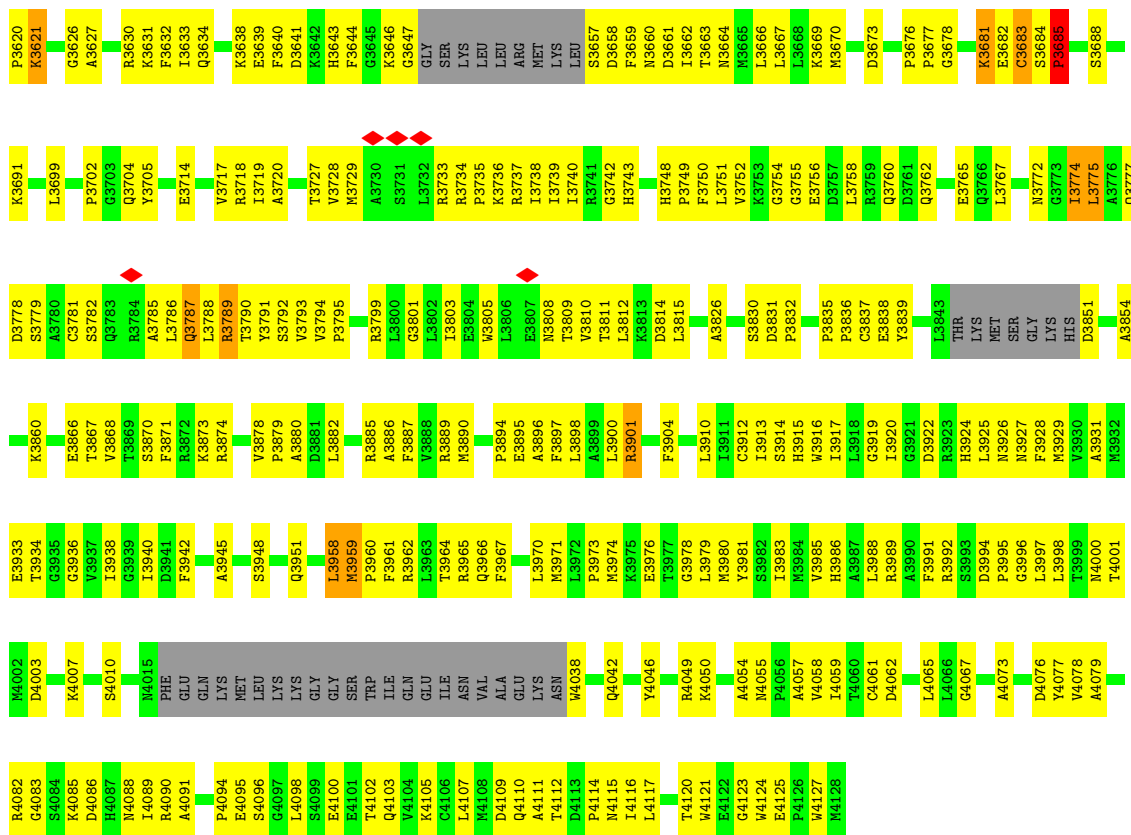
• Molecule 1: DNA repair protein XRCC4



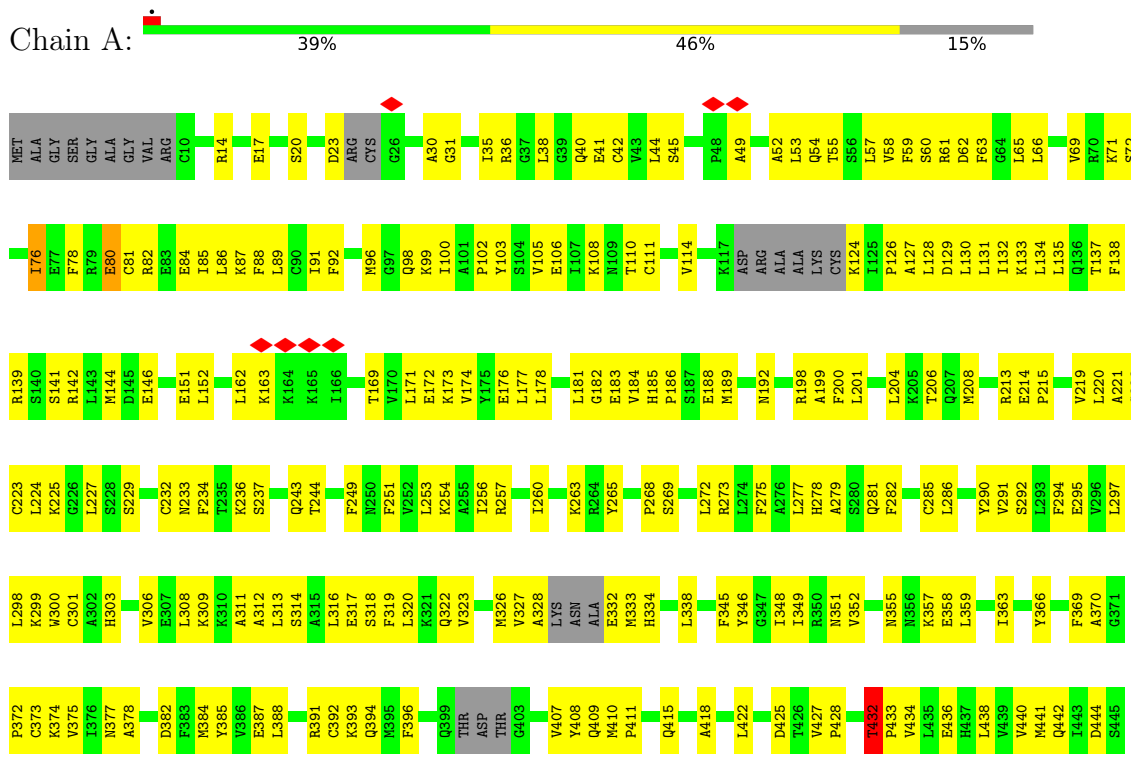
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F1559	Y1560	S1561	L1562	F1563	S1564	T1567	M1568	L1571	L1572	K1573	N1574	L1575	D1576	L1577	A1578	V1579	L1580	E1581	L1582	M1583	T1584	L1585	S1586	L1587	V1588	S1589	S1590	V1591	L1592	V1593	L1594	V1595	L1596	L1597	N1598	G1599	M1600	L1601	L1602	H1603	K1604	H1605	H1606	T1607	I1608	I1609	H1610	L1611	L1612	H1613	L1614	K1615	L1616	K1617	L1618	A1619	T1620	T1621	I1622	L1623	Q1624	H1625	W1626	K1627	I1628	I1629	C1629	F1630	S1631	W1632	W1633	A1634	L1635	L1636	L1637	L1638	L1639	L1640	L1641	L1642	L1643	L1644	L1645	L1646	L1647	L1648	L1649	L1650	L1651	L1652	L1653	L1654	L1655	L1656	L1657	L1658	L1659	L1660	L1661	L1662	L1663	L1664	L1665	L1666	L1667	L1668	L1669	L1670	L1671	L1672	L1673	L1674	L1675	L1676	L1677	L1678	L1679	L1680	L1681	L1682	L1683	L1684	L1685	L1686	L1687	L1688	L1689	L1690	L1691	L1692	L1693	L1694	L1695	L1696	L1697	L1698	L1699	L1700	L1701	L1702	L1703	L1704	L1705	L1706	L1707	L1708	L1709	L1710	L1711	L1712	L1713	L1714	L1715	L1716	L1717	L1718	L1719	L1720	L1721	L1722	L1723	L1724	L1725	L1726	L1727	L1728	L1729	L1730	L1731	L1732	L1733	L1734	L1735	L1736	L1737	L1738	L1739	L1740	L1741	L1742	L1743	L1744	L1745	L1746	L1747	L1748	L1749	L1750	L1751	L1752	L1753	L1754	L1755	L1756	L1757	L1758	L1759	L1760	L1761	L1762	L1763	L1764	L1765	L1766	L1767	L1768	L1769	L1770	L1771	L1772	L1773	L1774	L1775	L1776	L1777	L1778	L1779	L1780	L1781	L1782	L1783	L1784	L1785	L1786	L1787	L1788	L1789	L1790	L1791	L1792	L1793	L1794	L1795	L1796	L1797	L1798	L1799	L1800	L1801	L1802	S803	ALA	LEU	SER	ASP	GLU	THR	LYS	ASN	ASN	TRP	GLU																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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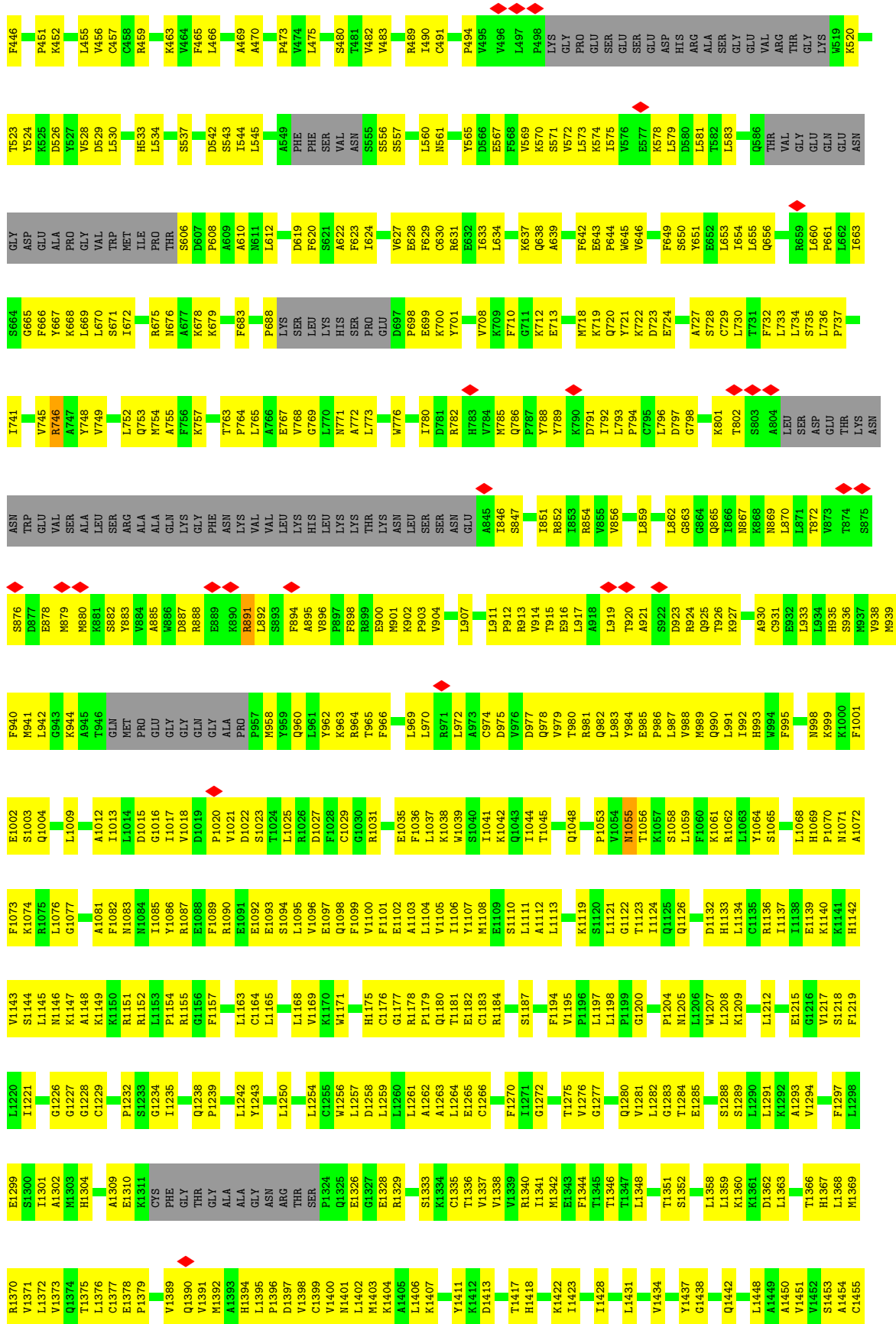
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	VAL	E1838	E1838	GLN		SER	L2149	L2215	T2279	V2345	E2410	Y2474	L2536
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	THR	V1713	F1840	GLY	PHE	THR	L2151	N2217	V2281	K2347	Y2412	I2476	R2538
	GLN	L1714	F1840	LEU	LEU	SER	E2154	F2218	N2283	Q2348	F2413	M2477	A2541
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	GLY	V1838	ALA	GLY	LYS	THR							
	GLY	L1839	ALA	GLY	LYS	THR							
	GLY	H1840	ALA	GLY	LYS	THR							
	GLY	C1831	ALA	GLY	LYS	THR							
	GLY	S1832	ALA	GLY	LYS	THR							
	GLY	D1833	ALA	GLY	LYS	THR							
	GLY	L1834	ALA	GLY	LYS	THR							
	GLY	V1835	ALA	GLY	LYS	THR							
	GLY	L1836	ALA	GLY	LYS	THR							
	GLY	L1837	ALA	GLY	LYS	THR							
	GLY	V1838	ALA	GLY	LYS	THR							
	GLY	L1839	ALA	GLY	LYS	THR							
	GLY	H1840	ALA	GLY	LYS	THR							
	GLY	C1831	ALA	GLY	LYS	THR							
	GLY	S1832	ALA	GLY	LYS	THR							
	GLY	D1833	ALA	GLY	LYS	THR							
	GLY	L1834	ALA	GLY	LYS	THR							
	GLY	V1835	ALA	GLY	LYS	THR							
	GLY	L1836	ALA	GLY	LYS	THR							
	GLY	L1837	ALA	GLY	LYS	THR							
	GLY	V1838	ALA	GLY	LYS	THR							
	GLY	L1839	ALA	GLY	LYS	THR							
	GLY	H1840	ALA	GLY	LYS	THR							
	GLY	C1831	ALA	GLY	LYS	THR							
	GLY	S1832	ALA	GLY	LYS	THR							
	GLY	D1833	ALA	GLY	LYS	THR							
	GLY	L1834	ALA	GLY	LYS	THR							
	GLY	V1835	ALA	GLY	LYS	THR							
	GLY	L1836	ALA	GLY	LYS	THR							
	GLY	L1837	ALA	GLY	LYS	THR							
	GLY	V1838	ALA	GLY	LYS	THR							
	GLY	L1839	ALA	GLY	LYS	THR							
	GLY	H1840	ALA	GLY	LYS	THR							
	GLY	C1831	ALA	GLY	LYS	THR							
	GLY	S1832	ALA	GLY	LYS	THR							
	GLY	D1833	ALA	GLY	LYS	THR							
	GLY	L1834	ALA	GLY	LYS	THR							
	GLY	V1835	ALA	GLY	LYS	THR							
	GLY	L1836	ALA	GLY	LYS	THR							
	GLY	L1837	ALA	GLY	LYS	THR							
	GLY	V1838	ALA	GLY	LYS	THR							
	GLY	L1839	ALA	GLY	LYS	THR							
	GLY	H1840	ALA	GLY	LYS	THR							
	GLY	C1831	ALA	GLY	LYS	THR							
	GLY	S1832	ALA	GLY									

V8555	L3416	A3338	L3273	Q8139	R3074	L3011	D2937	L2868	T9723	SER
A3556	F3419	D3354	V3274	E3140	K3075	E3012	V2936	L2869	L2803	THR
R3557	C3420	K3355	W3276	F3141	L3078	Y3013	L2804	L2870	L2804	ASP
K3558	D3421	A3356	W3277	I3142	E3079	C3014	K2806	L2871	A2805	PRO
S3560	L3424	R3357	Q3278	I3145	E3081	S3018	Q2807	V2876	L2728	LEU
K3561	R3425	I3358	S3279	S3146	H3081	I3019	L2808	R2731	R2731	VAL
L3562	E3428	L3359	Y3280	K3147	Y3082	D3020	L2809	F2732	F2732	ASP
Q3564	E3429	L3360	C3281	Q3148	S3083	S3021	S2810	M2733	M2733	HIS
I3568	ASN	E3361	R3282	Q3149	E3084	ASN	S2811	R2734	R2734	THR
D3570	ALA	S3363	L3283	E3085	E3085	PRO	L2812	D2735	D2735	PRO
R3571	SER	G3364	H3285	N3150	S3087	PRO	F2813	Q2736	Q2736	SER
F3571	SER	C3286	C3286	K3158	L3088	ASP	G2815	E2737	E2737	SER
L3572	VAL	R3287	R3287	L3161	L3089	LEU	L2816	K2738	K2738	ASP
N3573	ILE	S3288	S3288	L3161	Y3090	ASN	L2817	L2739	L2739	SER
A3574	ASP	R3289	R3289	W3164	L3091	K3029	L2818	S2740	S2740	LEU
L3575	SER	G3292	G3292	T3165	L3092	I3030	K2818	K2746	K2746	LEU
R3576	ALA	C3293	C3293	N3166	O3093	W3031	D2821	A2749	A2749	ALA
Q3577	GLU	S3294	S3294	R3167	R3094	E3033	K2824	E2750	E2750	ALA
V3512	LEU	E3295	E3295	Y3168	Y3096	E3033	T2825	R2763	R2763	LYS
Q3515	GLN	Q3296	Q3296	P3169	D3097	F3035	L2826	E2764	E2764	ARG
H3516	A3441	V3297	V3297	D3170	R3098	Y3036	S2827	I2757	I2757	GLU
S3517	P3443	L3298	L3298	A3171	A3099	Q3037	E2828	K2765	K2765	ARG
V3518	A3444	T3299	T3299	M3176	K3100	E3038	K2829	G2768	G2768	LEU
E3519	L3446	T3303	T3303	Y3101	Y3101	S3039	W2830	K2758	K2758	GLN
F3520	V3446	Q3383	Q3383	M3177	Y3102	Y3040	N2831	G2762	G2762	GLN
L3521	V3447	H3384	H3384	R3177	F3110	L3041	L2832	L2769	L2769	VAL
F3522	L3448	L3385	L3385	N3185	N3113	L3042	F2840	R2773	R2773	GLY
K3523	K3449	S3386	S3386	R3186	N3114	L3043	N2841	L2778	L2778	LYS
N3524	A3453	E3387	E3387	I3182	I3107	M3044	F2842	P2781	P2781	ARG
S3525	L3454	A3388	A3388	I3183	F3117	L3045	F2850	D2782	D2782	LEU
P3526	K3455	Q3389	Q3389	T3184	D3118	L3051	F2852	I2783	I2783	LEU
L3527	L3456	R3390	R3390	N3185	V3119	L3052	P2852	G2777	G2777	PRO
A3528	R3457	A3391	A3391	C3187	L3120	L3053	F2854	H2776	H2776	GLY
I3529	N3457	A3392	A3392	F3188	L3121	L3054	V2855	D2779	D2779	LYS
R3530	S3458	E3393	E3393	F3189	H3122	L3055	S2856	L2780	L2780	ARG
N3459	N3459	E3394	E3394	F3189	Q3123	L3056	C2857	P2781	P2781	GLY
F3532	E3460	E3395	E3395	F3189	Q3123	L3057	F2857	I2791	I2791	LEU
F3533	A3461	ALA	ALA	L3190	S3124	A3057	F2858	T2792	T2792	LEU
L3534	R3462	GLN	GLN	S3191	R3125	D3058	L2859	P2793	P2793	LYS
L3535	L3463	PRO	PRO	K3192	L3126	L3059	R2922	Q2795	Q2795	VAL
S3536	K3464	PRO	PRO	L3193	L3127	L3060	F2854	L2794	L2794	LYS
S3537	R3467	PRO	PRO	E3194	T3127	L3061	V2856	Q2795	Q2795	GLY
E3538	I3471	TRP	TRP	E3195	K3128	L3062	C2857	A2796	A2796	ALA
T3539	I3472	GLY	GLY	K3196	L3129	L3063	L2858	V2797	V2797	ALA
SER	ALA	PRO	PRO	L3197	Q3130	F3064	L2859	A2798	A2798	ASP
PHE	ALA	ALA	ALA	THR	Q3130	I3065	L2860	Q2799	Q2799	ASP
LYS	E3476	A3407	A3407	PRO	R3133	I3066	L2861	L2799	L2799	ASP
ASP	T3479	G3408	G3408	GLU	S3131	D3067	L2862	P2799	P2799	ASP
T3545	L3480	G3408	G3408	LEU	S3132	K3067	L2863	L2929	L2929	ASP
H3549	S3481	V3409	V3409	PRO	L3132	A3068	L2864	Y2930	Y2930	ASP
L3550	L3482	I3410	I3410	LEU	Q3133	M3068	L2865	L2930	L2930	ASP
M3551	M3483	D3411	D3411	PRO	Q3134	M3069	L2866	L2930	L2930	ASP
L3552	T3484	A3412	A3412	ASN	L3135	H3070	L2867	L2930	L2930	ASP
L3553	K3485	Y3413	Y3413	VAL	E3071	G3071	L2868	L2930	L2930	ASP
F3554	S3489	I3336	I3336	GLN	E3072	L3073	L2869	L2930	L2930	ASP
		I3337	I3337	ASP						



• Molecule 4: DNA-dependent protein kinase catalytic subunit





E2487	D2419	K2347	ASN	GLY	R2106	ASP	K1885	F1900	A1835	K1689	H1625	LEU	K1456
I2498	F2420	Q2348	SER	ILE	S2107	PHE	R1986	HIS	L1836	G1690	W1626	GLY	Q1457
L2501	V2421	L2349	LYS	THR	L2108	SER	R1986	GLY	R1837	Q1691	W1627	SER	L1458
V2505	V2423	H2352	D2269	THR	PRO	GLY	E1838	CYS	F1839	V1765	K1628	SER	H1469
L2506	M2424	Q2353	N2270	VAL	PRO	VAL	ASN	ILE	F1840	T1694	D1630	GLN	R1460
I2507	R2425	H2354	S2271	GLN	GLN	GLN	PHE	THR	S1841	L1695	L1464	SER	L1464
L2510	R2426	M2356	L2277	SER	GLY	SER	PRO	GLY	T1842	L1696	W1633	VAL	L1468
L2511	R2427	E2357	A2282	TYR	TYR	VAL	MET	GLY	I1843	P1697	D1636	ILE	L1488
D2512	D2428	D2358	T2192	GLU	GLY	SER	GLU	GLU	V1844	F1699	D1637	HIS	P1469
E2513	D2429	K2359	L2193	TYR	TYR	VAL	VAL	E1910	V1845	F1699	S1637	SER	S1470
M2514	E2430	F2360	S2194	SER	SER	SER	VAL	L1911	D1846	T1700	P1638	HIS	Q1471
P2515	Q2432	W2362	S2195	GLN	VAL	GLN	PRO	L1915	E1847	G1704	E1640	SER	S1472
L2517	K2433	C2363	W2196	ARG	PRO	GLN	PRO	L1918	I1848	E1775	E1640	VAL	T1473
Q2518	L2436	N2364	L2199	GLN	ASP	ASP	MET	L1918	D1849	Q1777	T1641	ILE	D1474
R2522	L2439	G2365	A2200	PRO	ASP	PRO	GLU	L1919	V1850	Q1779	K1642	ILE	L1475
N2523	K2440	S2370	A2200	ARG	ARG	ARG	GLY	C1919	L1851	S1780	A1644	HIS	L1476
F2524	M2442	F2371	P2209	THR	ALA	ALA	LYS	L1920	K1852	E1709	E1644	SER	H1477
W2525	M2443	L2374	I2203	ARG	ALA	THR	LYS	F1923	F1855	R1783	V1645	SER	E1482
S2526	F2300	V2210	T2203	ARG	THR	THR	TYR	F1923	F1855	R1783	V1646	SER	E1482
H2527	F2300	V2210	T2203	ARG	THR	THR	TYR	F1923	F1855	R1783	V1646	SER	E1482
E2528	F2300	V2210	T2203	ARG	THR	THR	TYR	F1923	F1855	R1783	V1646	SER	E1482
T2529	F2309	R2214	R2214	ARG	GLU	GLU	GLY	A1943	T1862	H1721	L1653	SER	P1493
R2530	V2310	V2310	V2310	GLN	GLN	GLN	ALA	A1943	T1862	H1721	L1653	SER	P1493
L2531	R2311	M2219	M2219	ARG	ARG	ARG	GLU	L1933	F1863	Q1794	L1654	SER	GLY
P2532	M2220	L2140	L2140	ASP	ASP	ASP	GLY	L1934	D1864	P1722	L1655	SER	ASP
S2533	L2385	K2221	K2221	VAL	VAL	VAL	ALA	L1949	T1865	P1722	L1655	SER	GLU
H2534	L2386	H2222	H2222	LEU	LEU	LEU	ALA	S1950	G1872	M1724	S1657	SER	ARG
R2535	P2387	V2223	V2223	LEU	LEU	LEU	ASN	C1942	Y1874	Q1725	S1658	SER	GLN
F2536	A2320	H2225	H2225	GLU	GLU	GLU	GLY	A1943	K1875	R1727	F1661	SER	CYS
G2537	E2321	P2226	P2226	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
K2538	V2322	F2281	F2281	HIS	HIS	HIS	ASP	A1943	K1875	R1727	F1661	SER	LEU
L2539	L2323	T2240	T2240	ASP	ASP	ASP	ASP	A1943	K1875	R1727	F1661	SER	LEU
A2540	G2524	L2241	L2241	ASP	ASP	ASP	ASP	A1943	K1875	R1727	F1661	SER	LEU
M2541	L2325	C2244	C2244	VAL	VAL	VAL	ASP	A1943	K1875	R1727	F1661	SER	LEU
N2542	R2328	W2245	W2245	VAL	VAL	VAL	ASP	A1943	K1875	R1727	F1661	SER	LEU
D2543	V2329	C2248	C2248	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
L2544	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
W2545	NET	GLU	GLU	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
Y2546	NET	GLU	GLU	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
S2547	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
P2548	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
K2549	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
L2550	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
E2551	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
H2552	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
F2553	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
W2554	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
L2555	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
S2556	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
L2557	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
A2558	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
T2559	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
N2560	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
F2561	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
L2562	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
L2563	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU
E2564	VAL	VAL	VAL	LEU	LEU	LEU	GLY	A1943	K1875	R1727	F1661	SER	LEU

V2565	M2566	M2567	M2568	P2570	D2571	Y2572	P2573	M2574	P2575	M2576	F2577	P2580	L2581	S2583	C2584	E2585	F2586	L2591	D2592	M2595	ARG	
PRO	VAL	ALA	GLY	GLN	LYS	ILE	VAL	GLY	THR	GLN	HIS	ASP	PHE	ARG	THR	GLY	ALA	GLY	GLY	ASP	PHE	ARG
ARG	ALA	PRO	VAL	GLY	THR	GLN	ALA	GLY	THR	GLN	LYS	ASP	PHE	ARG	THR	GLY	ALA	GLY	GLY	ASP	PHE	ARG
GLU	GLN	LYS	ARG	GLU	LYS	ILE	GLU	LYS	MET	V2769	V2770	V2771	V2772	R2773	S2774	V2775	G2778	L2779	Q2780	H2781	D2782	L2783
G2889	L2890	R2891	L2892	L2893	E2894	E2895	A2896	L2897	L2898	R2899	LEU	LEU	PRO	ALA	ARG	VAL	D2839	F2840	M2841	R2842	F2843	L2844
G2948	L2952	A2959	R2962	S2963	E2967	L2968	A2969	K2970	Q2971	L2976	Q2979	D2980	W2981	E2985	P2986	K2991	D2992	W2993	M2994	E2995	L2996	A2997
L3041	M3044	R3046	K3060	Q3064	GLY	GLU	ALA	ASP	Q3069	L3061	L3062	I3065	D3066	M3069	H3070	G3071	E3072	L3073	A3076	I3077	L3078	E3079
I3117	S3124	K3128	V3132	Q3133	L3134	L3135	L3136	E3137	L3138	F3141	L3142	S3143	S3146	K3147	N3150	L3151	S3152	S3153	Q3154	V3155	F3156	L3157
E3194	E3195	K3196	L3197	THR	PRO	LEU	PRO	GLU	ASP	ASN	MET	ASN	VAL	ASP	GLN	ASP	GLY	ASP	PRO	SER	ASP	D3226
L3262	E3265	T3268	R3269	D3270	D3271	W3272	L3273	V3274	S3275	Q3278	F3279	Y3280	L3281	C3282	R3283	L3284	S3285	S3288	R3289	S3290	Q3291	G3292
E3344	C3347	L3348	I3351	E3352	E3353	A3356	I3359	L3360	E3361	L3362	S3363	G3364	S3365	S3366	S3367	K3372	V3373	I3374	A3375	G3376	L3377	Q3378
D3418	F3419	C3420	D3421	Q3422	R3425	F3429	ASN	ALA	SER	VAL	ILE	ASP	SER	ALA	GLY	L3439	L3445	V3446	V3447	F3448	K3449	K3450
V3490	P3491	W3493	Q3494	F3495	L3496	S3497	W3498	L3499	S3500	H3501	M3502	V3503	A3504	L3505	K3508	A3511	V3512	Q3515	V3518	E3519	E3520	N3524
L3562	GLN	G3566	V3567	I3568	R3569	D3570	L3572	I3573	A3574	L3575	D3576	Q3577	P3581	L3584	F3585	W3588	S3589	V3592	E3593	R3594	L3595	L3596
THR	PRO	VAL	K3603	I3606	M3609	Y3610	E3611	R3612	M3613	L3617	A3622	P3623	G3624	L3625	G3626	A3627	F3628	R3629	R3630	K3631	F3632	I3633

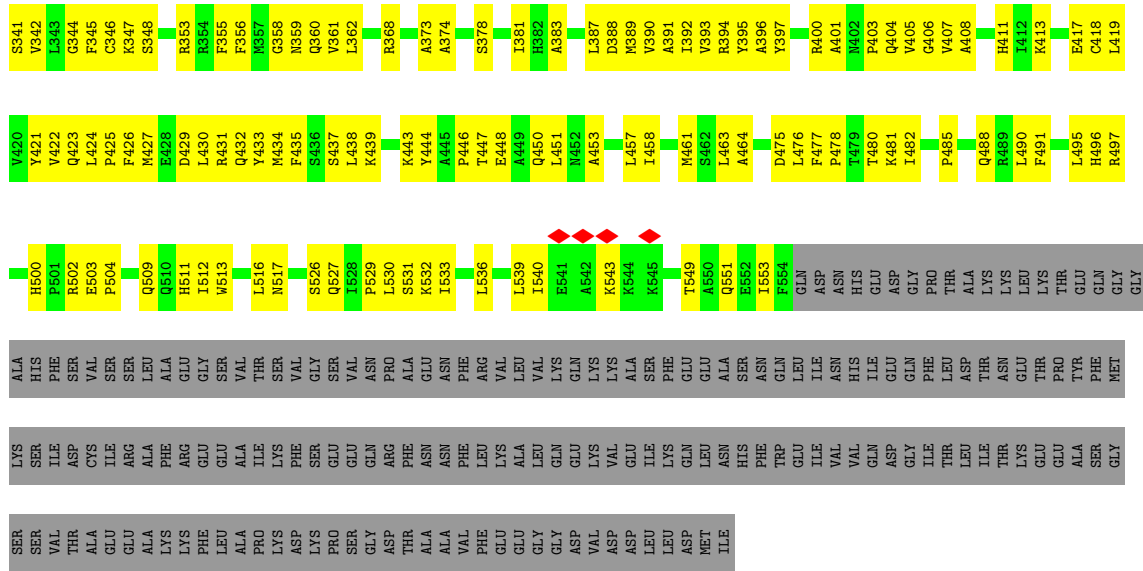
L1279	L1280	V1281	G1282	G1283	V1284	E1285	K1286	L1287	L1288	L1289	L1290	L1291	L1292	L1293	V1294	L1295	L1296	L1297	S1300	I1306	L1307	A1308	A1309	E1310	F1313	G1314	THR	GLY	ALA	GLY	ALA	GLY	L1254	L1255	L1256	L1257	D1258	L1259	L1260	L1261	A1262	A1263	L1264	E1265	C1266	Y1267	F1270	L1271	G1272	E1273	R1274	M1275	E1276	F1344				
L1132	H1133	L1134	L1137	L1138	E1139	K1140	K1141	H1142	L1143	L1144	L1145	L1146	K1147	A1148	K1149	K1150	R1151	L1152	L1153	P1154	G1155	G1156	F1157	P1158	P1159	L1163	C1164	L1165	L1166	D1167	L1168	V1169	K1170	W1171	L1172	L1173	T1181	C1182	L1183	R1184	H1185	K1186	S1187	I1188	E1189	K1190	F1191	F1194	V1195	L1198	P1199	G1200	M1201	C1128	R1202	A1130	I1131	
P1204	M1205	W1206	W1207	L1208	K1209	D1210	V1211	L1212	K1213	L1214	E1215	S1218	G1226	K1227	G1228	C1229	S1233	A1237	Q1238	P1239	T1240	LEU	LEU	TYR	ARG	GLY	PRO	PHE	S1249	L1250	Q1251	L1254	C1255	W1256	L1257	D1258	L1259	L1260	L1261	A1262	A1263	L1264	E1265	C1266	Y1267	F1270	L1271	G1272	E1273	R1274	M1275	V1276						
M858	S861	L862	G863	G864	Q865	Q866	Q867	Q868	Q869	L870	L871	THR	VAL	THR	THR	SER	SER	LYS	ASN	ASP	GLU	M879	M880	K881	S882	Y883	V884	A885	W886	D887	R888	E889	K890	R891	F894	A895	V896	P897	P898	P899	E900	M901	P902	P903	V904	I905	F910	R913	V914	T915	E916	L917	A918	H993	A921	S922	D923	R924
Q925	T926	K927	V928	A929	C931	E932	L933	L934	M937	V938	M939	F940	M941	L1014	L1015	G943	K944	A945	A955	P956	Q960	L961	Y962	K963	T964	R965	F966	P967	L970	R971	L972	A973	C974	D975	V976	D977	Q978	V979	T980	Q982	L983	Y984	E985	V988	N989	Q990	L991	I992	H993	A994	F995	T996	N997					
R988	K999	K1000	F1001	Q1004	L1005	T1006	V1007	A1008	L1009	L1010	L1011	A1012	I1013	M1014	D1015	G943	K944	A945	A955	P956	Q960	L961	Y962	K963	T964	R965	F966	P967	L970	R971	L972	A973	C974	D975	V976	D977	Q978	V979	T980	Q982	L983	Y984	E985	V988	N989	Q990	L991	I992	H993	A994	F995	T996	N997					
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D1132	H1133	L1134	L1137	L1138	E1139	K1140	K1141	H1142	L1143	L1144	L1145	L1146	K1147	A1148	K1149	K1150	R1151	L1152	L1153	P1154	G1155	G1156	F1157	P1158	P1159	L1163	C1164	L1165	L1166	D1167	L1168	V1169	K1170	W1171	L1172	L1173	T1181	C1182	L1183	R1184	H1185	K1186	S1187	I1188	E1189	K1190	F1191	F1194	V1195	L1198	P1199	G1200	M1201	C1128	R1202	A1130	I1131	
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V434	L435	E436	H437	L438	V439	V440	M441	Q442	I443	F446	Y449	M453	D457	I461	V462	K463	V464	F465	L466	A467	L468	A469	S470	D538	K471	C472	A473	V474	L475	A476	N477	C478	I479	S480	V483	H484	Q485	I488	R489	I490	A418	C419	S419	V420	K493	L498	LYS	GLY	PRO	GLU	GLU	GLU	GLU	GLU				
ASP	HIS	ARG	ALA	GLY	GLU	VAL	ARG	THR	GLY	LYS	W519	P522	T523	V524	Y527	V528	F531	R532	H533	L534	L535	S536	S537	D538	K471	C472	A473	V474	L475	A476	N477	C478	I479	S480	V483	H484	Q485	I488	R489	I490	A418	C419	S419	V420	K493	L498	LYS	GLY	PRO	GLU	GLU	GLU	GLU	GLU				
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K719	L726	L730	L731	F732	L733	S735	L736	H737	H738	N739	I740	E742	R746	A747	Y748	V749	P750	A751	L752	Q753	M754	A755	F756	K757	L758	G759	Y762	P764	L765	A766	E767	V768	G769	A772	L773	E774	E775	W776	Y779	I780	D781	R782	H783	L784	M785	Q786	F787	Y788	Y789	K790								
D791	I792	L794	C795	L796	D797	G798	Y799	S803	ALA	LEU	SER	ASP	GLU	THR	LYS	ASN	ASP	TRP	GLU	VAL	SER	VAL	SER	ALA	LEU	SER	ARG	ALA	GLN	LYS	F826	L831	K832	H833	L834	K835	K836	T837	K838	N839	L840	SER	ASN	GLU	ALA	ILE	S847	L848	E849	A818	I851	R852	I853	R854	V855			
M858	S861	L862	G863	G864	Q865	Q866	Q867	Q868	Q869	L870	L871	THR	VAL	THR	THR	SER	SER	LYS	ASN	ASP	GLU	M879	M880	K881	S882	Y883	V884	A885	W886	D887	R888	E889	K890	R891	F894	A895	V896	P897	P898	P899	E900	M901	P902	P903	V904	I905	F910	R913	V914	T915	E916	L917	A918	H993	A921	S922	D923	R924
Q925	T926	K927	V928	A929	C931	E932	L933	L934	M937	V938	M939	F940	M941	L1014	L1015	G943	K944	A945	A955	P956	Q960	L961	Y962	K963	T964	R965	F966	P967	L970	R971	L972	A973	C974	D975	V976	D977	Q978	V979	T980	Q982	L983	Y984	E985	V988	N989	Q990	L991	I992	H993	A994	F995	T996	N997					
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S1065	L1066	H1069	P1070	M1071	R1075	L1076	G1077	A1078	S1079	L1080	A1081	F1082	M1083	M1084	I1085	Y1086	R1087	E1088	F1089	E1092	L1095	V1096	F1099	V1100	F1101	E1102	A1103	L1104	V1105	I1106	Y1107	M1108	L1111	A1112	L1113	A1114	H1115	A1116	D1117	E1118	K1119	S1120	L1121	G1122	T1123	I1124	Q1125	Q1126	C1127	C1128	L1129	A1130	I1131					
D1132	H1133	L1134	L1137	L1138	E1139	K1140	K1141	H1142	L1143	L1144	L1145	L1146	K1147	A1148	K1149	K1150	R1151	L1152	L1153	P1154	G1155	G1156	F1157	P1158	P1159	L1163	C1164	L1165	L1166	D1167	L1168	V1169	K1170	W1171	L1172	L1173	T1181	C1182	L1183	R1184	H1185	K1186	S1187	I1188	E1189	K1190	F1191	F1194	V1195	L1198	P1199	G1200	M1201	C1128	R1202	A1130	I1131	
P1204	M1205	W1206	W1207	L1208	K1209	D1210	V1211	L1212	K1213	L1214	E1215	S1218	G1226	K1227	G1228	C1229	S1233	A1237	Q1238	P1239	T1240	LEU	LEU	TYR	ARG	GLY	PRO	PHE	S1249	L1250	Q1251	L1254	C1255	W1256	L1257	D1258	L1259	L1260	L1261	A1262	A1263	L1264	E1265	C1266	Y1267	F1270	L1271	G1272	E1273	R1274	M1275	V1276						
L1279	L1280	V1281	G1282	G1283	V1284	E1285	K1286	L1287	L1288	L1289	L1290	L1291	L1292	L1293	V1294	L1295	L1296	L1297	S1300	I1306	L1307	A1308	A1309	E1310	F1313	G1314	THR	GLY	ALA	GLY	ALA	GLY	L1254	L1255	L1256	L1257	D1258	L1259	L1260	L1261	A1262	A1263	L1264	E1265	C1266	Y1267	F1270	L1271	G1272	E1273	R1274	M1275	V1276					

K129	D201	L267	F340	R404	Y473	GLY
R130	L202	V268	D341	M405	R474	SER
F131	M203	I269	D342	I406	S475	ARG
Q132	H204	S270	P343	P407	D476	LYS
D133	L205	V271	G344	P408	S477	PRO
M134	K206	G272	L345	Y409	F478	PRO
M135	K207	I273	M346	F410	E479	VAL
G136	F211	Y274	L347	V411	M480	GLU
H137	D212	M275	M348	A412	P481	TYR
G138	I213	L276	G349	L413	V482	TYR
S139	I214	L277	F350	V414	L483	SER
D140	S214	Q278	K351	Q415	Q484	GLU
D141	Y141	L281	P352	Q416	Q485	GLU
S142	R218	L282	L353	E417	H486	LEU
L143	S222	P283	V354	E418	F487	LYS
E145	ILE	K287	L355	E419	R488	THR
E146	ALA	L288	K357	L490	M489	HIS
L147	GLU	Y289	K357	L493	L493	SER
C150	ASP	R290	H360	I425	L493	LYS
L153	GLU	E291	Y361	Q426	M498	GLY
F154	ASP	T292	L362	V427	E499	THR
S155	LEU	N293	R363	T428	E499	GLU
D156	ARG	E294	P364	P429	P500	LEU
V157	VAL	P295	S365	P430	E512	GLY
K160	HIS	V296	L366	Q431	A513	PHE
M161	PHE	K297	F367	F432	A513	THR
S162	SER	T300	V368	Q433	M514	VAL
H163	S237	R301	E372	L434	M515	PRO
K164	K238	R302	L374	V435	K516	MET
R165	L239	F303	V375	P436	R517	LEU
I166	E240	N304	D441	L437	L518	LYS
M167	E241	T305	F376	A440	D523	GLU
L168	D242	T305	G377	D442	E524	ALA
F169	L243	D315	S378	K443	F525	CYS
T170	R244	T316	S378	R444	K526	ALA
M171	K245	K317	T380	K445	E527	TYR
E172	V246	R318	L381	M446	L528	GLY
D173	R247	S319	F382	M453	P531	LYS
M174	A248	R320	A384	A454	P532	LYS
A183	K249	I321	L385	E457	D533	SER
A187	R252	Y322	L386	Q458	Y534	LEU
T188	K253	R325	I387	Q459	ASN	LYS
K189	R254	Q326	K388	V459	PRO	LYS
A190	A255	I327	C389	G460	GLU	GLN
G191	L256	L328	K392	K461	GLY	GLN
D192	S257	E330	E393	M462	VAL	SER
L193	L259	E333	V394	K463	THR	GLU
R194	K260	E333	L397	A464	ALA	ALA
D195	L261	E335	L397	V465	LYS	LYS
T196	K262	E336	C398	I466	THR	THR
G197	L263	E336	R399	E467	LYS	LYS
I198	K264	E336	Y400	K468	HIS	HIS
F199	K265	E337	T401	L469	ASP	ASP
L200	D266	R339	P402	R470	ASN	ASN
			R403	F471	GLU	GLU
				T472	ASP	SER

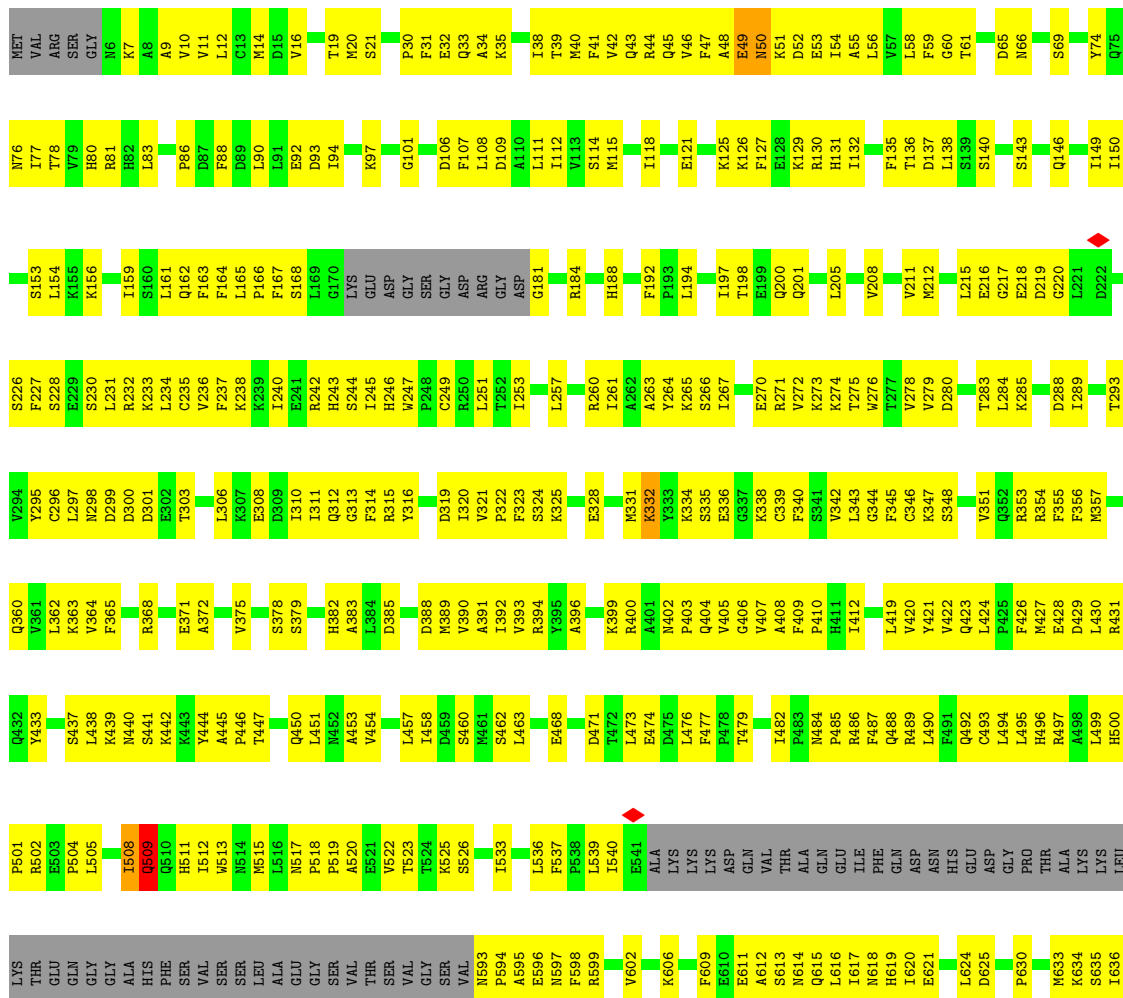
• Molecule 5: X-ray repair cross-complementing protein 6

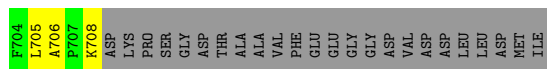


MET	S73	W148	I1E	N293	H360	Q426	E501
SER	K74	S156	ALA	E294	Y361	V427	D505
TRP	I75	D156	GLU	P295	L362	T428	L506
GLU	I76	Q157	ASP	V296	R363	P429	T507
SER	S77	Q158	GLU	K297	P364	P430	L508
TYR	S78	Q159	ASP	T298	S365	Q433	P509
TYR	D79	F159	LEU	K299	L366	Q434	K510
LYS	R80	K160	ARG	T300	F367	L434	V511
THR	R81	M161	VAL	F301	V388	V435	E512
THR	L82	S162	HIS	F303	Y369	F436	
GLU	L83	H163	PHE	N304	P370	L437	
GLY	L84	K164	GLU	N304	E371	P438	
ASP	A84	K165	GLU	T305	E372	F439	
GLU	V85	I166	SER	S396	S373	A440	
GLU	Y88	M167	SER	T307	L374	D442	
ALA	O89	L168	K238	G308	V375	D442	
GLU	N98	F169	L239	G309	I376	K443	
GLU	D93	T170	E240	L310	G377	R444	
GLN	K94	M171	D241	L311	S378	K445	
GLN	N95	E172	L242	L312	L381	M446	
GLU	N98	P175	L243	P313	F382	L452	
GLU	K100	HIS	R247	D315	I387	M453	
ALA	N101	GLY	R252	T316	K388	A454	
GLY	I102	ASN	K253	R318	C389	T455	
SER	Y103	ASP	R254	S319	K392	P456	
TYR	V104	SER	E255	Q320	F393	E457	
TYR	L105	K182	L256	I321	V394	V459	
LEU	Q106	A183	L259	R325	A395	G460	
LYS	E107	S184	K262	Q326	A396	K461	
LYS	L108	R185	K263	L327	L397	K463	
GLU	P111	A186	L263	T328	G398	K468	
ALA	G112	R187	M264	E330	R399	L469	
ALA	L119	K189	D265	E331	Y400	R470	
TYR	D120	I198	D266	E332	F401	Y473	
GLY	F121	F199	L267	E333	P402	R474	
LEU	F122	L200	V268	E334	R403	R474	
LYS	K123	D201	I269	E335	R404	S475	
GLY	A47	L202	S270	E336	M405	D476	
LEU	M48	Q124	V271	E337	I406	S477	
LYS	F49	Q125	G272	L337	P407	F478	
LYS	E50	Q126	T273	D341	P408		
LYS	SER	G127	Y274	D342	V411		
GLN	GLN	Q128	M275	D342	A412		
GLY	GLY	K129	L205	P343	L413		
LEU	SER	R130	LYS	G344	V414		
VAL	VAL	F131	PRO	L345	P415		
THR	THR	G138	GLY	M348	Q416		
ALA	ALA	Y141	GLY	K351	E417		
LYS	LYS	S142	D211	P352	E418		
LYS	THR	F59	D212	E419	F419		
ASP	ASP	F60	S214	L420	L493		
ASN	PHE	I64	R218	V354	SER		
GLU	ASP	V146	D219	K357	D421		
ASP	ASP	L147	R290	K358	D422		
			Y299	K424	R424		
			R339	L425			



• Molecule 6: X-ray repair cross-complementing protein 5

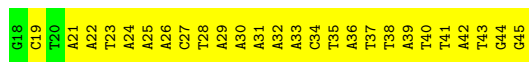




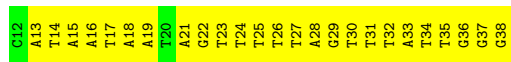
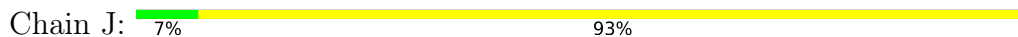
• Molecule 7: DNA (28-MER)



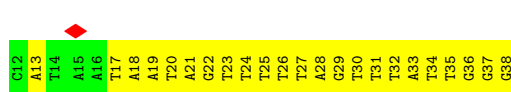
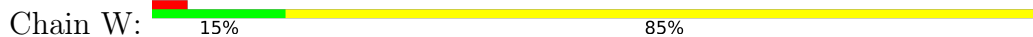
• Molecule 7: DNA (28-MER)



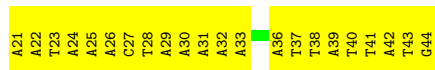
• Molecule 8: DNA (27-MER)



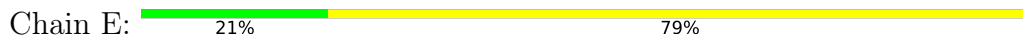
• Molecule 8: DNA (27-MER)



• Molecule 9: DNA (24-MER)



• Molecule 10: DNA (24-MER)



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	9114	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 ($e^-/\text{\AA}^2$)	46.8	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	130000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.338	Depositor
Minimum map value	-0.177	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.018	Depositor
Recommended contour level	0.066	Depositor
Map size (Å)	704.16003, 704.16003, 704.16003	wwPDB
Map dimensions	540, 540, 540	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	K	0.29	0/1647	0.55	0/2215
1	L	0.29	0/1605	0.55	0/2155
1	N	0.27	0/1654	0.51	0/2224
1	O	0.25	0/1603	0.51	0/2154
2	M	0.26	0/2135	0.50	0/2883
2	P	0.30	0/2140	0.50	0/2890
3	Q	0.26	0/1755	0.54	0/2377
3	R	0.26	0/1773	0.53	0/2402
3	X	0.27	0/1766	0.51	0/2392
3	Y	0.24	0/1773	0.49	0/2402
4	A	0.27	0/27902	0.50	0/37795
4	F	0.31	0/28192	0.54	1/38135 (0.0%)
4	S	0.27	0/28373	0.51	1/38372 (0.0%)
5	B	0.28	0/3712	0.52	0/5018
5	G	0.30	0/4000	0.55	0/5388
5	T	0.27	0/3833	0.56	0/5160
6	C	0.26	0/4039	0.50	0/5457
6	H	0.28	0/5232	0.52	0/7057
6	U	0.27	0/5246	0.54	0/7075
7	I	0.69	1/647 (0.2%)	1.06	3/996 (0.3%)
7	V	0.51	0/647	0.95	0/996
8	J	0.68	0/623	1.11	0/961
8	W	0.54	0/623	1.01	0/961
9	D	0.63	0/554	0.94	0/852
10	E	0.57	0/552	1.10	0/851
All	All	0.29	1/132026 (0.0%)	0.54	5/179168 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	I	42	DA	O3'-P	5.67	1.68	1.61

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	I	25	DA	P-O3'-C3'	-8.62	109.36	119.70
7	I	26	DA	P-O3'-C3'	-7.91	110.21	119.70
7	I	24	DA	P-O3'-C3'	-7.13	111.14	119.70
4	S	956	PRO	N-CA-CB	6.08	110.60	103.30
4	F	3685	PRO	N-CA-CB	-5.38	96.68	102.60

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	K	1618	0	1597	156	0
1	L	1579	0	1564	147	0
1	N	1625	0	1611	129	0
1	O	1577	0	1557	109	0
2	M	2087	0	2036	192	0
2	P	2091	0	2042	166	0
3	Q	1723	0	1733	161	0
3	R	1739	0	1754	166	0
3	X	1733	0	1749	58	0
3	Y	1739	0	1754	79	0
4	A	27365	0	26865	1703	0
4	F	27665	0	27584	2153	0
4	S	27830	0	27817	1924	0
5	B	3646	0	3608	304	0
5	G	3924	0	3997	405	0
5	T	3764	0	3852	411	0
6	C	3968	0	3876	296	0
6	H	5128	0	5128	500	0
6	U	5143	0	5166	489	0
7	I	576	0	318	69	0
7	V	576	0	318	67	0
8	J	557	0	311	59	0
8	W	557	0	311	65	0
9	D	493	0	273	46	0
10	E	494	0	278	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	129197	0	127099	9101	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 36.

All (9101) 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)
4:S:1082:PHE:HB3	4:S:1129:ASP:H	1.09	1.09
4:S:1077:GLY:HA2	4:S:1124:ILE:HA	1.36	1.05
4:F:3574:ALA:H	4:F:3685:PRO:HD3	1.21	1.02
4:F:728:SER:O	4:F:732:PHE:HB2	1.61	1.00
4:F:175:TYR:HB2	4:F:221:ALA:HA	1.44	0.99
4:A:3640:PHE:HA	4:A:3644:PHE:HB3	1.46	0.98
1:K:138:GLN:H	1:L:137:ASN:N	1.61	0.97
5:B:181:ALA:N	5:B:184:SER:HG	1.63	0.96
4:F:3772:ASN:HB3	4:F:3788:LEU:HB3	1.49	0.94
6:U:49:GLU:HB2	6:U:238:LYS:HE3	1.48	0.94
1:K:137:ASN:HA	1:L:139:ALA:H	1.31	0.94
1:K:138:GLN:N	1:L:137:ASN:H	1.65	0.93
4:F:15:LEU:O	4:F:19:LEU:HB2	1.69	0.93
4:F:3575:LEU:H	4:F:3684:SER:N	1.66	0.92
4:F:3575:LEU:H	4:F:3684:SER:H	0.93	0.92
4:S:1288:SER:O	4:S:1292:LYS:HB3	1.70	0.92
2:M:887:LYS:HD2	2:M:906:GLU:HB3	1.53	0.91
4:F:565:TYR:HD2	4:F:641:PHE:HB2	1.36	0.91
4:A:301:CYS:HA	4:A:309:LYS:HA	1.54	0.90
4:A:856:VAL:HG13	4:A:3132:VAL:HG23	1.52	0.90
6:U:161:LEU:H	6:U:211:VAL:HG11	1.36	0.90
4:S:169:THR:HA	4:S:172:GLU:HB2	1.52	0.90
4:F:179:GLY:HA2	4:F:227:LEU:HA	1.51	0.89
6:H:652:GLU:O	6:H:656:ASN:HB2	1.72	0.89
5:B:402:PRO:HD2	5:B:406:ILE:HG21	1.52	0.89
4:S:341:PHE:HB3	4:S:369:PHE:HD1	1.38	0.88
4:F:892:LEU:HB3	4:F:908:ASP:HB2	1.56	0.88
6:H:325:LYS:O	6:H:329:GLU:HB2	1.74	0.88
4:S:3757:ASP:H	4:S:4014:LYS:HE3	1.37	0.87
5:T:258:ARG:HA	7:V:34:DC:H5'	1.55	0.87
4:S:2298:GLU:HA	4:S:2301:GLN:HB3	1.54	0.87
7:I:29:DA:H2'	7:I:30:DA:H2'	1.55	0.87
7:V:21:DA:H3'	7:V:22:DA:H4'	1.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:46:VAL:HA	6:U:237:PHE:HB3	1.57	0.86
6:H:313:GLY:HA2	6:H:322:PRO:HA	1.57	0.86
4:A:432:THR:H	4:A:433:PRO:HD2	1.40	0.86
6:U:334:LYS:HD3	8:W:33:DA:H8	1.39	0.86
4:F:3008:TRP:HB3	4:F:3051:LEU:HD11	1.56	0.86
4:A:438:LEU:O	4:A:442:GLN:HB2	1.75	0.86
4:A:3944:HIS:HD1	4:A:3948:SER:HG	1.23	0.86
4:S:583:LEU:HA	4:S:615:ALA:H	1.41	0.85
5:T:169:PHE:HB3	5:T:205:LEU:HD22	1.58	0.85
4:F:3574:ALA:N	4:F:3685:PRO:HD3	1.90	0.85
1:N:141:ASN:HA	1:N:144:LEU:HD22	1.57	0.85
4:F:3575:LEU:N	4:F:3684:SER:H	1.74	0.85
4:F:925:GLN:HA	4:F:2769:VAL:HG22	1.56	0.85
4:F:3501:HIS:HE2	4:F:4001:THR:HG1	1.24	0.85
6:H:20:MET:HB3	6:H:31:PHE:HB2	1.56	0.85
4:F:1131:ILE:HD13	4:F:1186:LYS:HD2	1.58	0.84
4:F:3575:LEU:N	4:F:3683:CYS:H	1.75	0.84
5:G:173:ASP:HB2	5:G:214:SER:H	1.43	0.84
4:S:430:VAL:HG23	4:S:1643:MET:HG2	1.57	0.84
4:F:919:LEU:HD12	4:F:971:ARG:HH21	1.43	0.84
4:S:272:LEU:HD13	4:S:312:ALA:HB2	1.59	0.84
4:S:3262:LEU:HD13	4:S:3276:TRP:HA	1.58	0.84
4:F:3778:ASP:H	4:F:3781:CYS:HB2	1.42	0.84
3:Q:211:VAL:HA	3:Q:215:GLN:HE21	1.42	0.84
4:S:1082:PHE:HB3	4:S:1129:ASP:N	1.93	0.84
4:F:3255:ALA:HB1	4:F:3258:LEU:HB2	1.58	0.83
5:G:59:PRO:HG2	5:G:171:ASN:HD21	1.41	0.83
6:H:274:LYS:NZ	6:H:275:THR:O	2.11	0.83
4:F:4057:ALA:HB1	4:F:4082:ARG:HA	1.61	0.83
4:S:3767:LEU:HD11	4:S:4001:THR:HG23	1.59	0.83
6:U:599:ARG:HH21	6:U:638:CYS:HA	1.43	0.83
4:F:2809:PHE:HB3	4:F:2813:PHE:HE2	1.44	0.83
4:F:31:GLY:HA3	4:F:77:GLU:HB2	1.61	0.83
4:F:2891:ARG:HH22	4:F:3898:LEU:HB2	1.44	0.82
4:S:3335:ARG:HH11	4:S:3415:THR:HA	1.43	0.82
7:V:31:DA:H3'	8:W:29:DG:H2''	1.61	0.82
4:F:895:ALA:HA	4:F:904:VAL:HA	1.60	0.82
4:F:1172:LEU:HD11	4:F:1187:SER:HB2	1.59	0.82
4:F:3278:GLN:HB3	4:F:3282:ARG:HH12	1.44	0.82
5:G:298:THR:HA	6:H:295:TYR:HA	1.62	0.82
7:I:21:DA:H2'	7:I:22:DA:C4	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3535:ILE:HD13	4:S:3794:VAL:HB	1.59	0.82
4:S:901:MET:HE1	4:S:2816:ILE:HD12	1.61	0.82
4:S:3243:ILE:HD11	4:S:3258:LEU:HG	1.61	0.82
2:M:865:ILE:HD11	2:M:888:ILE:HG22	1.61	0.82
4:F:919:LEU:HG	4:F:920:THR:HG23	1.60	0.82
4:S:3324:ARG:HH12	4:S:3409:VAL:HG22	1.44	0.82
1:L:22:VAL:HG13	1:L:34:ILE:HG12	1.60	0.82
4:A:3773:GLY:HA2	4:A:3788:LEU:HB3	1.62	0.82
4:F:177:LEU:H	4:F:223:CYS:HA	1.44	0.81
4:S:272:LEU:HD11	4:S:300:TRP:HB3	1.60	0.81
6:U:56:LEU:H	6:U:81:ARG:HB2	1.45	0.81
4:F:1867:ILE:HD13	4:F:1936:ARG:HB3	1.62	0.81
1:K:61:MET:HG2	3:R:112:LEU:HB2	1.62	0.81
4:F:865:GLN:HE22	4:F:3171:ALA:H	1.28	0.81
4:F:1572:LEU:HD12	4:F:1618:LEU:HD11	1.61	0.81
7:I:40:DT:H72	8:J:16:DA:H62	1.45	0.81
4:S:3887:PHE:HD1	4:S:3901:ARG:HB2	1.45	0.81
4:S:117:LYS:HA	6:U:300:ASP:HB2	1.61	0.81
5:T:42:VAL:HG12	5:T:169:PHE:HB2	1.62	0.81
5:T:254:ARG:HH21	8:W:25:DT:H1'	1.45	0.81
1:K:138:GLN:H	1:L:137:ASN:H	0.83	0.81
4:A:2462:VAL:HA	4:A:2473:MET:HE1	1.63	0.81
4:A:3365:SER:HB3	4:A:3376:GLY:HA3	1.61	0.81
4:A:3751:LEU:HD23	4:A:3805:TRP:H	1.46	0.81
5:T:490:LEU:HD23	6:U:316:TYR:HB2	1.63	0.81
4:F:1220:LEU:HD11	4:F:1287:GLN:HB2	1.63	0.81
4:A:3950:THR:N	4:A:4068:HIS:H	1.79	0.81
4:S:1264:LEU:HD22	4:S:1341:ILE:HG22	1.63	0.81
4:S:3469:LEU:HD22	4:S:3505:LEU:HB2	1.62	0.81
5:G:132:GLN:HA	5:G:136:GLY:HA2	1.62	0.81
4:S:229:SER:HA	4:S:278:HIS:HE1	1.46	0.81
5:T:214:SER:HB2	5:T:217:TYR:HB2	1.61	0.81
4:A:3819:THR:HG23	4:A:3889:ARG:HH12	1.44	0.80
1:N:16:ILE:HB	1:O:118:ASN:HD21	1.46	0.80
4:F:54:GLN:HG3	4:F:3100:LYS:HD2	1.63	0.80
4:F:3029:LYS:HG2	4:F:3032:SER:HB3	1.61	0.80
4:S:3949:ALA:HB1	4:S:4064:LEU:HD23	1.64	0.80
4:F:901:MET:HG2	4:F:903:PRO:HD3	1.64	0.80
5:G:275:ASN:HB3	6:H:431:ARG:HH22	1.44	0.80
5:G:363:ARG:HA	6:H:359:ASN:HA	1.63	0.80
4:A:789:TYR:HA	4:A:793:LEU:HD13	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:675:ARG:HA	4:F:678:LYS:HE2	1.63	0.80
2:M:682:ILE:HG13	2:M:687:GLY:HA3	1.64	0.80
1:N:98:GLU:HA	1:N:108:LEU:H	1.45	0.80
2:P:716:ASN:HA	2:P:745:HIS:HE1	1.46	0.80
5:G:194:ARG:HE	5:G:199:PHE:HA	1.46	0.80
4:F:3736:LYS:HB2	4:F:3752:VAL:HB	1.63	0.80
4:A:1717:LEU:HD21	4:A:1742:CYS:HB3	1.63	0.80
2:M:838:LEU:HD21	2:M:866:GLY:HA2	1.64	0.80
4:F:2225:HIS:HB2	4:F:2231:PHE:HB2	1.62	0.80
1:K:140:LYS:H	1:L:137:ASN:HA	1.46	0.79
4:A:3534:ILE:HB	4:A:3798:SER:H	1.47	0.79
5:T:77:SER:HA	5:T:249:LYS:HB2	1.63	0.79
4:F:3029:LYS:HB3	4:F:3033:GLU:HG2	1.63	0.79
1:N:168:ALA:HB1	2:P:810:LEU:HD22	1.62	0.79
4:F:2570:PRO:HB2	4:A:902:LYS:HG3	1.65	0.79
4:F:1234:GLY:HA2	4:F:1292:LYS:HE2	1.63	0.79
4:F:627:VAL:HG13	4:F:668:LYS:HE2	1.61	0.79
6:H:646:ALA:HA	6:H:651:GLU:HG3	1.64	0.79
4:A:3950:THR:H	4:A:4068:HIS:H	1.31	0.79
4:S:753:GLN:HA	4:S:795:CYS:HB3	1.65	0.79
5:T:413:LEU:HB3	5:T:432:PHE:HB3	1.64	0.79
6:H:151:ILE:HD11	6:H:211:VAL:HG13	1.64	0.79
4:S:3246:ALA:HA	4:S:3251:ASN:HB2	1.63	0.79
4:F:4102:THR:HA	4:F:4105:LYS:HE2	1.63	0.79
4:F:28:ALA:HA	4:F:77:GLU:HB3	1.63	0.79
5:G:454:ALA:HB3	6:H:379:SER:HB3	1.64	0.79
4:S:332:GLU:HB2	4:S:335:LYS:HB2	1.65	0.79
1:K:62:GLU:HG3	3:R:116:PRO:HA	1.65	0.79
4:A:1264:LEU:HD23	4:A:1340:ARG:HB3	1.64	0.79
4:F:1465:HIS:HA	4:F:1468:LEU:HB3	1.64	0.78
5:B:481:PRO:O	5:B:485:GLN:HB2	1.83	0.78
4:F:3574:ALA:HB3	4:F:3685:PRO:HG3	1.65	0.78
4:F:3962:ARG:HH12	4:F:4125:GLU:HB3	1.45	0.78
4:F:2805:ALA:HA	4:F:2808:LEU:HD12	1.66	0.78
4:A:984:TYR:HA	4:A:987:LEU:HB3	1.63	0.78
4:A:1098:GLN:HG3	4:A:1151:ARG:HB3	1.66	0.78
4:A:2546:TYR:H	4:A:2842:ARG:HH22	1.30	0.78
4:S:31:GLY:HA3	4:S:77:GLU:HB3	1.64	0.78
5:T:67:ILE:HG13	5:T:119:LEU:HD21	1.65	0.78
4:F:561:ASN:HA	4:F:564:LEU:HD12	1.66	0.78
2:P:758:TYR:HA	2:P:764:SER:HA	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2168:LEU:HD21	4:A:2193:ILE:HG12	1.65	0.78
4:F:1300:SER:HA	4:F:1304:HIS:HB3	1.65	0.78
4:F:1766:LEU:HD11	4:F:1775:GLU:HG2	1.65	0.78
4:F:3288:SER:HA	4:F:3292:GLY:HA3	1.66	0.78
6:H:242:ARG:HH12	6:H:273:LYS:HE2	1.49	0.78
5:T:40:PHE:HB2	5:T:85:VAL:HG12	1.66	0.78
6:H:232:ARG:HH22	6:H:514:ASN:HB3	1.49	0.78
4:S:646:VAL:HG11	4:S:680:ILE:HD11	1.66	0.77
6:H:453:ALA:HA	6:H:532:LYS:HZ2	1.49	0.77
4:S:3243:ILE:HG23	4:S:3254:LEU:HD11	1.65	0.77
5:G:193:LEU:HB2	5:G:198:ILE:HB	1.65	0.77
4:A:3757:ASP:HB2	4:A:4022:LYS:HE2	1.66	0.77
4:F:2211:LEU:HB3	4:F:2214:ARG:HH21	1.47	0.77
6:H:342:VAL:HA	6:H:393:VAL:HA	1.65	0.77
5:B:490:LEU:HA	5:B:493:LEU:HD12	1.66	0.77
6:U:391:ALA:H	6:U:408:ALA:HB3	1.48	0.77
2:P:692:ASN:HD22	5:G:290:ARG:HG2	1.49	0.77
4:A:3741:ARG:HB3	4:A:3747:GLU:HG2	1.67	0.77
4:F:1044:ILE:HG21	4:F:1049:GLN:HG3	1.65	0.77
5:G:299:LYS:HB2	6:H:294:VAL:HB	1.65	0.77
4:F:2122:LEU:N	4:F:2126:MET:SD	2.56	0.77
4:A:3868:VAL:HG22	4:A:4114:PRO:HB2	1.66	0.77
4:S:79:ARG:HH12	4:S:119:ARG:HA	1.48	0.77
4:S:796:LEU:HD13	4:S:862:LEU:HD21	1.67	0.77
1:O:145:GLN:O	1:O:149:GLU:HB2	1.85	0.77
6:H:184:ARG:HA	6:H:519:PRO:HA	1.65	0.77
4:F:175:TYR:HA	4:F:225:LYS:H	1.49	0.77
4:F:667:TYR:HA	4:F:670:LEU:HB2	1.67	0.77
5:G:297:LYS:HB3	5:G:299:LYS:HE3	1.67	0.77
2:M:702:ALA:HB1	2:M:709:VAL:HG22	1.65	0.77
2:P:818:VAL:HG23	2:P:862:HIS:HB2	1.66	0.77
4:S:1715:GLU:HB3	6:U:630:PRO:HG2	1.67	0.77
4:S:3494:GLN:HA	4:S:3709:GLY:HA2	1.67	0.77
1:K:176:LEU:HD11	1:L:173:GLU:HG3	1.67	0.76
4:A:4037:ASN:HB2	4:A:4066:LEU:HA	1.67	0.76
5:T:321:ILE:HB	6:U:274:LYS:HG2	1.68	0.76
4:F:3165:THR:HG22	4:F:3241:LYS:HE2	1.67	0.76
5:G:318:ARG:HB2	5:G:329:LEU:HB3	1.67	0.76
4:A:1881:TYR:HB2	4:A:1950:SER:HB2	1.68	0.76
6:U:624:LEU:HA	6:U:671:LEU:HD11	1.67	0.76
4:F:1529:VAL:HG21	4:F:1578:ALA:HB1	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2443:MET:HE3	4:F:2476:ILE:HG12	1.67	0.76
4:S:3162:ASN:HB3	4:S:3186:ARG:HG2	1.68	0.76
4:F:1833:LEU:HG	4:F:1836:LEU:HD23	1.66	0.76
4:S:2965:TYR:HA	4:S:2968:ALA:HB3	1.66	0.76
1:K:37:THR:HG22	1:K:39:GLY:H	1.51	0.76
4:S:3011:LEU:HA	4:S:3014:CYS:HB3	1.67	0.76
4:F:2433:LYS:HG2	4:F:2472:GLN:HE22	1.49	0.76
4:S:2586:PHE:HD1	4:S:2778:GLY:HA3	1.50	0.76
3:R:8:LEU:HD21	3:R:37:LEU:HB2	1.68	0.76
4:A:2349:LEU:HB3	4:A:2360:PHE:HE1	1.50	0.76
4:S:12:LEU:HB2	4:S:56:SER:HB3	1.68	0.76
5:G:87:PHE:HB2	5:G:103:TYR:HB3	1.66	0.76
5:G:363:ARG:HH22	8:J:28:DA:H5'	1.51	0.76
5:G:469:LEU:HD12	5:G:517:ARG:HE	1.51	0.76
4:A:1335:CYS:HB3	4:A:1391:VAL:HG21	1.66	0.76
4:A:3760:GLN:HE22	4:A:4018:GLN:HB2	1.50	0.76
4:A:4094:PRO:HB2	4:A:4098:LEU:HD21	1.68	0.76
4:S:3052:LEU:HD21	4:S:3059:GLN:H	1.48	0.76
6:C:296:CYS:HA	6:C:304:GLU:HA	1.68	0.75
4:S:3347:CYS:HB3	4:S:3350:GLU:HB2	1.65	0.75
1:O:44:THR:HG23	1:O:116:VAL:HG12	1.68	0.75
5:T:350:PHE:HB2	6:U:463:LEU:HB2	1.66	0.75
5:T:488:ARG:HE	5:T:503:ALA:H	1.34	0.75
4:F:3506:LEU:HD21	4:F:3558:ILE:HG13	1.67	0.75
4:S:213:ARG:HG2	5:T:343:PRO:HD2	1.66	0.75
2:P:800:GLU:HA	2:P:805:TRP:HB2	1.69	0.75
6:H:656:ASN:HB3	6:H:688:LYS:HA	1.68	0.75
5:T:241:ASP:OD1	5:T:244:ARG:NH1	2.20	0.75
3:Q:41:LEU:HB3	3:R:137:ARG:HG3	1.69	0.75
4:S:326:MET:HA	4:S:329:LYS:HE3	1.68	0.75
4:S:3288:SER:HA	4:S:3292:GLY:HA3	1.67	0.75
4:A:639:ALA:HB1	4:A:642:PHE:HB3	1.67	0.75
6:U:663:GLN:HB2	6:U:702:LYS:HG3	1.66	0.75
4:S:440:VAL:HG21	4:S:485:GLN:HB3	1.69	0.75
4:F:887:ASP:OD1	4:F:891:ARG:NH2	2.20	0.74
4:F:3778:ASP:O	4:F:3782:SER:N	2.20	0.74
4:F:2120:ARG:HB3	4:F:2160:TYR:HE1	1.50	0.74
4:F:3739:ILE:HA	4:F:3749:PRO:HA	1.68	0.74
5:G:33:SER:HB3	5:G:254:ARG:HH21	1.52	0.74
5:T:33:SER:OG	5:T:35:ARG:NH1	2.20	0.74
5:T:411:VAL:HG22	5:T:436:PHE:HA	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1068:LEU:HD11	4:A:1106:ILE:HD12	1.69	0.74
4:A:3628:PHE:HB2	4:A:3677:PRO:HA	1.66	0.74
4:S:1078:ALA:HA	4:S:1128:CYS:H	1.51	0.74
2:M:658:ILE:HG21	2:M:734:SER:HA	1.68	0.74
4:F:1802:TYR:O	4:F:1806:ARG:NH1	2.21	0.74
4:A:2859:GLN:NE2	4:A:2880:CYS:SG	2.59	0.74
4:S:3701:ILE:HG23	4:S:3740:ILE:HB	1.68	0.74
5:T:483:LEU:HD13	6:U:428:GLU:HG3	1.69	0.74
4:F:1684:LEU:HB3	4:F:1688:LEU:HB2	1.68	0.74
6:H:251:LEU:HD11	6:H:342:VAL:HG23	1.69	0.74
5:T:120:ASP:HA	5:T:123:LYS:HB3	1.69	0.74
2:M:663:GLU:HG3	2:M:688:TYR:HB2	1.68	0.74
4:F:3125:ARG:HA	4:F:3128:LYS:HE3	1.69	0.74
6:C:76:ASN:HB2	6:C:105:ALA:HB2	1.68	0.74
1:K:141:ASN:HB3	1:L:144:LEU:HD22	1.67	0.74
4:F:835:LYS:HA	4:F:838:LYS:HB2	1.69	0.74
4:F:3493:TRP:HD1	4:F:3521:ILE:HA	1.52	0.74
4:F:57:LEU:HD11	4:F:99:LYS:HD3	1.70	0.74
4:F:1572:LEU:HG	4:F:1600:MET:HG3	1.70	0.74
4:A:2426:HIS:O	4:A:2432:GLN:NE2	2.20	0.74
4:S:1279:LEU:HA	4:S:1359:LEU:HD11	1.70	0.74
4:S:1879:VAL:HG22	4:S:1883:ARG:HH12	1.52	0.74
4:S:2295:GLN:HE21	4:S:2298:GLU:HB3	1.51	0.74
4:A:3705:TYR:HA	4:A:3713:PRO:HG2	1.70	0.74
4:S:939:MET:HE1	4:S:2785:ILE:HG23	1.69	0.74
4:S:2575:PRO:HA	4:S:2786:LYS:HA	1.70	0.74
4:S:3141:PHE:HD2	4:S:3185:ASN:HA	1.53	0.74
4:S:3665:MET:HA	4:S:3668:LEU:HG	1.69	0.74
5:T:279:LYS:HA	5:T:364:PRO:HG2	1.68	0.74
5:G:389:CYS:HA	5:G:392:LYS:HB3	1.68	0.74
4:S:16:GLN:HE21	4:S:66:LEU:HD22	1.53	0.74
4:S:734:LEU:HD21	4:S:768:VAL:HG22	1.69	0.74
4:S:759:GLY:HA2	4:S:762:TYR:HB3	1.70	0.74
4:S:2586:PHE:HE1	4:S:2780:LEU:H	1.35	0.74
6:U:636:ILE:HD13	6:U:677:ILE:HG22	1.68	0.74
4:F:1404:LYS:HA	4:F:1407:LYS:HD3	1.69	0.73
4:F:2347:LYS:O	4:F:2351:GLN:N	2.20	0.73
6:H:44:ARG:HB2	6:H:237:PHE:HB2	1.69	0.73
6:H:45:GLN:NE2	6:H:236:VAL:O	2.21	0.73
4:A:4012:ASP:O	4:A:4016:PHE:N	2.21	0.73
5:B:74:LYS:HG3	5:B:111:PRO:HG3	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1848:ILE:O	4:S:1852:LYS:NZ	2.21	0.73
4:S:3863:ASN:H	4:S:3866:GLU:HG2	1.53	0.73
5:T:288:LEU:HA	5:T:295:PRO:HA	1.70	0.73
2:M:707:ILE:HG23	2:M:708:ARG:HE	1.52	0.73
3:R:16:LEU:HD23	3:R:18:LEU:HD11	1.70	0.73
8:J:13:DA:H62	8:J:14:DT:H3	1.34	0.73
4:A:35:ILE:HG21	4:A:80:GLU:HB2	1.69	0.73
4:A:895:ALA:HB1	4:A:902:LYS:HB3	1.69	0.73
3:R:8:LEU:HB3	3:R:130:LEU:HD22	1.71	0.73
4:F:175:TYR:C	4:F:225:LYS:HG2	2.08	0.73
4:A:3511:ALA:O	4:A:3515:GLN:HB2	1.87	0.73
4:A:3913:ILE:HD12	4:A:3984:MET:HG3	1.70	0.73
5:B:396:ALA:HB3	5:B:413:LEU:HB2	1.69	0.73
5:T:340:PHE:HB2	5:T:408:PRO:HD2	1.68	0.73
4:F:1441:ALA:O	4:F:1445:ARG:NE	2.21	0.73
6:H:44:ARG:HD2	6:H:236:VAL:HB	1.71	0.73
4:A:3066:ASP:O	4:A:3070:HIS:ND1	2.21	0.73
4:S:1151:ARG:HB2	4:S:1163:LEU:HD12	1.69	0.73
1:K:161:ARG:HD3	2:M:898:ILE:HB	1.69	0.73
4:F:2891:ARG:NH2	4:F:3894:PRO:O	2.22	0.73
5:T:59:PRO:O	5:T:63:SER:HB3	1.88	0.73
4:F:2353:GLN:HB3	4:F:2360:PHE:HB2	1.69	0.73
5:G:95:ASN:HD22	5:G:102:ILE:HB	1.54	0.73
4:A:128:LEU:HA	4:A:131:LEU:HD12	1.70	0.73
4:A:442:GLN:HG2	4:A:457:CYS:HB2	1.71	0.73
4:A:3633:ILE:HA	4:A:3636:PHE:HB3	1.71	0.73
1:K:61:MET:HA	3:R:112:LEU:H	1.53	0.73
4:F:1622:ILE:HD12	4:F:1625:HIS:HB2	1.69	0.73
5:G:352:PRO:HG2	6:H:473:LEU:HB3	1.68	0.73
6:H:165:LEU:HD11	6:H:201:GLN:HE21	1.53	0.73
4:A:4102:THR:HA	4:A:4105:LYS:HD2	1.70	0.73
6:C:209:LYS:HB2	6:C:221:LEU:HD21	1.70	0.73
4:F:3142:ILE:O	4:F:3147:LYS:NZ	2.21	0.73
5:G:352:PRO:HB2	5:G:354:VAL:HG22	1.68	0.73
6:H:132:ILE:HG13	6:H:161:LEU:HD13	1.70	0.73
4:A:1887:ASP:N	4:A:1954:CYS:HG	1.85	0.73
3:Q:97:CYS:HA	3:Q:107:ARG:H	1.53	0.73
4:F:2202:PRO:HG2	4:F:2245:TRP:HA	1.71	0.73
5:G:50:GLU:HG3	5:G:52:GLN:HB2	1.70	0.73
4:S:1665:HIS:H	4:S:1668:PHE:HB3	1.53	0.73
4:F:3988:LEU:HD23	4:F:4100:GLU:HA	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3493:TRP:HB2	4:A:3711:PRO:HA	1.70	0.73
4:S:734:LEU:HD22	4:S:772:ALA:HB2	1.70	0.73
4:S:1743:MET:HG2	4:S:1773:VAL:HG13	1.70	0.73
7:V:45:DG:H1'	8:W:13:DA:H2'	1.71	0.73
4:F:3118:ASP:HB3	4:F:3121:LEU:HD13	1.71	0.72
6:C:40:MET:HG3	6:C:235:CYS:HA	1.70	0.72
4:F:3597:ALA:HB2	4:F:3657:SER:HA	1.69	0.72
4:A:661:PRO:HA	4:A:666:PHE:HE2	1.54	0.72
4:A:1633:TRP:HA	4:A:1637:SER:HB3	1.70	0.72
4:A:3858:MET:O	4:A:4119:ARG:NH1	2.22	0.72
4:S:3971:MET:HB3	4:S:3973:PRO:HD2	1.71	0.72
7:V:41:DT:N3	7:V:43:DT:O4	2.21	0.72
3:X:163:GLU:HB2	3:Y:164:ILE:HG13	1.69	0.72
4:F:3280:TYR:HB3	4:F:3306:LEU:HD21	1.71	0.72
4:F:4088:ASN:HD22	4:F:4110:GLN:HA	1.53	0.72
5:T:168:LEU:HD22	5:T:202:LEU:HG	1.71	0.72
6:U:154:LEU:HA	6:U:159:ILE:H	1.54	0.72
3:Q:43:GLN:NE2	3:Q:102:ASP:O	2.23	0.72
3:R:27:VAL:HG12	3:R:82:PRO:HG3	1.71	0.72
4:F:1621:THR:O	4:F:1625:HIS:ND1	2.22	0.72
4:F:3588:TRP:HE1	4:F:3610:TYR:HA	1.53	0.72
6:H:701:ALA:HB1	6:H:708:LYS:H	1.54	0.72
4:A:533:HIS:HA	4:A:537:SER:HB2	1.70	0.72
4:F:16:GLN:HG2	4:F:63:PHE:HB2	1.69	0.72
5:G:478:PHE:HB2	6:H:426:PHE:HA	1.71	0.72
6:H:232:ARG:NH2	6:H:511:HIS:O	2.22	0.72
4:S:2486:ASP:HB2	4:S:2491:THR:HA	1.71	0.72
4:S:3786:LEU:HD13	4:S:3910:LEU:HD12	1.70	0.72
6:H:335:SER:HG	6:H:339:CYS:HG	1.37	0.72
6:H:363:LYS:HG2	6:H:420:VAL:HG12	1.72	0.72
4:A:1818:SER:HA	4:A:1821:ASP:HB2	1.70	0.72
4:A:3864:ARG:HD3	4:A:4087:HIS:HB2	1.71	0.72
5:B:444:ARG:HG3	6:C:264:TYR:H	1.53	0.72
4:S:3332:THR:HG23	4:S:3415:THR:HG21	1.70	0.72
5:T:82:LEU:HD11	5:T:157:VAL:HB	1.71	0.72
4:F:2524:PHE:HA	4:F:2530:ARG:HH21	1.54	0.72
6:H:510:GLN:O	6:H:514:ASN:N	2.21	0.72
6:H:686:ILE:H	6:H:702:LYS:HD3	1.55	0.72
4:A:720:GLN:HE22	4:A:1021:VAL:HA	1.55	0.72
5:T:256:LEU:HD22	8:W:26:DT:H4'	1.70	0.72
5:T:329:LEU:HD11	5:T:337:LEU:HD12	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:219:VAL:HA	4:F:222:GLY:HA3	1.72	0.72
4:A:3630:ARG:NH1	4:A:3682:GLU:O	2.23	0.72
4:S:162:LEU:HA	5:T:310:LEU:HD22	1.71	0.72
4:S:3568:ILE:HD11	4:S:3697:ASN:HD22	1.53	0.72
6:U:136:THR:HG22	6:U:138:LEU:H	1.53	0.72
1:N:159:GLN:HA	1:O:158:VAL:HG11	1.70	0.72
3:Q:202:CYS:HB3	3:R:224:GLN:HB3	1.72	0.72
4:F:1882:SER:OG	4:F:1883:ARG:NH1	2.23	0.72
4:F:3620:PRO:O	4:F:3630:ARG:NH1	2.23	0.72
5:G:443:LYS:NZ	6:H:480:THR:O	2.23	0.72
4:A:3298:LEU:HD22	4:A:3333:THR:HA	1.72	0.72
4:A:4064:LEU:HD22	4:A:4074:PHE:HE1	1.55	0.72
4:A:4088:ASN:ND2	4:A:4113:ASP:OD2	2.22	0.72
1:K:157:ASP:OD1	1:K:161:ARG:NH1	2.23	0.71
2:M:797:ALA:HB2	2:M:814:ARG:HB2	1.72	0.71
4:F:666:PHE:HB2	4:F:732:PHE:HZ	1.53	0.71
5:G:206:LYS:HG2	5:G:207:LYS:HG3	1.72	0.71
7:I:27:DC:H1'	8:J:31:DT:H3	1.55	0.71
4:A:1453:SER:O	4:A:1457:GLN:NE2	2.22	0.71
4:A:1646:LEU:HB3	4:A:1688:LEU:HD11	1.72	0.71
4:F:157:TYR:HA	4:F:160:LEU:HB3	1.72	0.71
4:A:667:TYR:HA	4:A:728:SER:HA	1.70	0.71
4:A:627:VAL:HG23	4:A:668:LYS:HE3	1.71	0.71
4:A:2474:TYR:HA	4:A:2477:LEU:HD12	1.72	0.71
6:U:33:GLN:HB2	6:U:227:PHE:HE1	1.53	0.71
4:F:1083:ASN:O	4:F:1087:ARG:NH1	2.22	0.71
6:H:136:THR:HG22	6:H:138:LEU:H	1.53	0.71
4:S:3735:PRO:HB3	4:S:3751:LEU:HG	1.73	0.71
6:U:484:ASN:HB3	6:U:487:PHE:HB2	1.71	0.71
4:F:118:ASP:O	4:F:122:LYS:N	2.24	0.71
4:A:3103:ILE:HD11	4:A:3135:LEU:HA	1.70	0.71
4:A:3243:ILE:HA	4:A:3255:ALA:HA	1.71	0.71
6:C:119:GLN:HG3	6:C:157:CYS:HB3	1.71	0.71
4:S:1108:MET:HA	4:S:1111:LEU:HD12	1.70	0.71
6:U:393:VAL:O	6:U:406:GLY:N	2.22	0.71
1:O:134:ILE:O	1:O:138:GLN:NE2	2.23	0.71
4:F:305:ASN:O	4:F:308:LEU:N	2.22	0.71
4:F:373:CYS:HB2	4:F:423:TYR:CE2	2.25	0.71
4:A:793:LEU:HG	4:A:870:LEU:HD13	1.73	0.71
4:A:1963:GLN:NE2	4:A:2124:SER:OG	2.23	0.71
5:B:48:MET:HA	5:B:59:PRO:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:394:GLN:HB2	4:S:1734:PRO:HB3	1.72	0.71
4:S:2304:VAL:O	4:S:2348:GLN:NE2	2.23	0.71
4:S:3758:LEU:O	4:S:3762:GLN:N	2.20	0.71
6:U:463:LEU:HA	6:U:522:VAL:HG11	1.72	0.71
3:Q:181:THR:HG21	3:R:160:LYS:HG2	1.71	0.71
4:F:3789:ARG:NH1	4:F:3790:THR:O	2.23	0.71
5:G:352:PRO:HA	5:G:394:VAL:HA	1.72	0.71
4:A:2556:SER:HB2	4:A:2799:GLN:HA	1.71	0.71
4:F:2151:ILE:HG12	4:F:2192:THR:HG21	1.72	0.71
4:F:3874:ARG:NH2	4:F:4120:THR:OG1	2.23	0.71
4:F:985:GLU:OE2	4:F:1031:ARG:NH2	2.24	0.71
4:F:1847:ALA:HA	4:F:1850:VAL:HG12	1.72	0.71
4:F:3141:PHE:HZ	4:F:3192:LYS:HB2	1.56	0.71
4:A:888:ARG:NH1	4:A:3890:MET:SD	2.64	0.71
4:A:2942:ILE:HA	4:A:2946:GLU:HG2	1.73	0.71
4:S:928:VAL:HG22	4:S:979:VAL:HG21	1.70	0.71
4:S:3518:VAL:HA	4:S:3521:ILE:HD12	1.72	0.71
6:U:16:VAL:HA	6:U:20:MET:HE2	1.72	0.71
4:F:2427:ARG:HH21	4:F:2465:PRO:HD2	1.56	0.71
5:G:348:MET:SD	5:G:399:ARG:NE	2.64	0.71
4:A:1072:ALA:O	4:A:1076:LEU:HB3	1.91	0.71
5:B:283:PRO:HG3	5:B:490:LEU:HD11	1.72	0.71
4:S:19:LEU:O	4:S:71:LYS:NZ	2.24	0.71
4:S:1775:GLU:HA	4:S:1778:PHE:HB3	1.72	0.71
4:F:1725:GLN:HG3	4:F:1728:GLU:H	1.55	0.70
4:F:2510:LEU:HA	4:F:2521:ILE:HD13	1.73	0.70
4:F:3511:ALA:O	4:F:3515:GLN:NE2	2.24	0.70
6:H:456:ALA:HB3	6:H:532:LYS:HZ1	1.55	0.70
4:A:2367:VAL:O	4:A:2371:PHE:N	2.23	0.70
4:A:3573:ASN:HB3	4:A:3622:ALA:HB1	1.72	0.70
4:S:2244:CYS:SG	4:S:2245:TRP:N	2.63	0.70
6:U:12:LEU:HG	6:U:54:ILE:HD12	1.71	0.70
1:K:7:ARG:HH22	1:L:124:ARG:HB3	1.56	0.70
4:S:790:LYS:HA	4:S:869:ASN:HB3	1.72	0.70
4:S:1031:ARG:HA	4:S:1034:ARG:HG2	1.72	0.70
4:F:340:TYR:O	4:F:343:GLU:HG2	1.92	0.70
4:F:933:LEU:HD21	4:F:2794:LEU:HD23	1.72	0.70
4:F:1576:ASP:O	4:F:1580:LEU:N	2.21	0.70
4:F:1766:LEU:HD12	4:F:1773:VAL:HB	1.72	0.70
4:F:1828:LEU:HB3	4:F:1879:VAL:HG11	1.73	0.70
4:F:3740:ILE:O	4:F:3748:HIS:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3750:PHE:HA	4:F:3805:TRP:H	1.56	0.70
4:S:2122:LEU:N	4:S:2126:MET:SD	2.59	0.70
4:F:2841:ASN:HD21	4:F:2871:LEU:HD11	1.56	0.70
5:G:380:THR:HG22	6:H:444:TYR:HA	1.74	0.70
6:H:613:SER:O	6:H:617:ILE:HG12	1.90	0.70
4:S:766:ALA:HA	4:S:799:TYR:HE1	1.56	0.70
4:S:1403:MET:HG2	4:S:1415:LEU:HD11	1.73	0.70
4:S:3451:LEU:HA	4:S:3454:LEU:HB3	1.73	0.70
4:S:3959:MET:SD	4:S:4124:TRP:NE1	2.60	0.70
6:U:44:ARG:O	6:U:235:CYS:N	2.21	0.70
6:U:342:VAL:HA	6:U:393:VAL:HA	1.72	0.70
1:N:180:PHE:HE2	1:O:176:LEU:HB3	1.56	0.70
4:F:2255:LEU:HB3	4:F:2259:LYS:HE2	1.73	0.70
5:G:214:SER:O	5:G:218:ARG:NE	2.23	0.70
4:A:494:PRO:HG3	4:A:523:THR:HA	1.73	0.70
4:S:1817:GLN:NE2	4:S:1868:THR:O	2.24	0.70
4:S:2965:TYR:H	4:S:3253:SER:HB2	1.55	0.70
4:S:3187:CYS:HA	4:S:3190:LEU:HD12	1.74	0.70
5:T:270:SER:HB3	5:T:373:SER:H	1.55	0.70
4:F:2824:LYS:O	4:F:2829:LYS:NZ	2.24	0.70
4:A:876:SER:O	4:A:880:MET:N	2.23	0.70
4:A:3091:LEU:HD22	4:A:3138:ILE:HG23	1.71	0.70
4:A:3730:ALA:HA	4:A:3734:ARG:HG3	1.73	0.70
4:S:204:LEU:HB3	4:S:249:PHE:HD2	1.56	0.70
4:S:1406:LEU:HA	4:S:1409:SER:HB3	1.74	0.70
4:S:2196:TRP:HB2	4:S:2199:LEU:HB2	1.71	0.70
4:F:1751:GLU:O	4:F:1788:ARG:NH1	2.24	0.70
4:F:1816:ARG:HA	4:F:1819:PHE:HE1	1.56	0.70
4:F:3457:ASN:ND2	4:F:3492:CYS:SG	2.64	0.70
6:H:381:ILE:HG23	6:H:410:PRO:HB2	1.74	0.70
8:J:16:DA:H8	8:J:17:DT:H3	1.40	0.70
4:A:631:ARG:HA	4:A:672:ILE:HG21	1.72	0.70
4:A:1087:ARG:O	4:A:1090:ARG:NH2	2.25	0.70
4:A:1469:PRO:O	4:A:1471:GLN:NE2	2.24	0.70
4:S:3262:LEU:HD11	4:S:3279:SER:HB2	1.74	0.70
2:P:865:ILE:HD11	2:P:888:ILE:HG23	1.73	0.70
4:F:1349:LEU:HB2	4:F:1405:ALA:HB1	1.73	0.70
4:F:2253:TYR:H	4:F:2256:ILE:HD12	1.56	0.70
7:I:21:DA:H5'	8:J:37:DG:H22	1.55	0.70
4:A:727:ALA:HA	4:A:730:LEU:HB2	1.74	0.70
4:A:1765:VAL:O	4:A:1772:HIS:NE2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:397:LEU:HD21	6:C:477:PHE:HD2	1.57	0.70
5:B:444:ARG:HH21	9:D:25:DA:H5'	1.55	0.70
4:S:1458:LEU:HD13	4:S:1467:ILE:HG21	1.73	0.70
4:S:2830:ASN:O	4:S:2834:GLN:NE2	2.24	0.70
5:T:462:MET:HG2	6:U:257:LEU:HD21	1.74	0.70
6:U:479:THR:HA	6:U:482:ILE:HB	1.73	0.70
4:F:1232:PRO:HA	4:F:1236:LEU:HD23	1.74	0.70
4:A:1378:GLU:HA	4:A:1450:ALA:HB1	1.73	0.70
4:S:1881:TYR:HE1	4:S:1953:CYS:HB2	1.56	0.70
5:T:261:LEU:HD23	5:T:345:LEU:HB3	1.74	0.70
6:U:9:ALA:HA	6:U:52:ASP:HA	1.72	0.70
6:U:181:GLY:HA3	6:U:476:LEU:HG	1.72	0.70
6:U:643:ARG:NH1	6:U:656:ASN:OD1	2.24	0.70
6:U:646:ALA:HA	6:U:651:GLU:HG3	1.74	0.70
1:K:28:LEU:HD21	1:K:70:LEU:HD12	1.72	0.70
1:L:174:THR:HG23	2:M:792:MET:HG2	1.72	0.70
1:N:22:VAL:HG12	1:N:34:ILE:HG13	1.73	0.70
4:F:3929:MET:HG3	4:F:3940:ILE:HD11	1.74	0.70
4:A:188:GLU:OE2	4:A:192:ASN:ND2	2.25	0.70
4:A:2290:PRO:HG3	4:A:2298:GLU:H	1.57	0.70
5:B:478:PHE:HB2	6:C:426:PHE:HD1	1.56	0.70
4:S:3958:LEU:HA	4:S:4064:LEU:HD21	1.72	0.70
6:U:496:HIS:HB3	6:U:505:LEU:HD13	1.74	0.70
1:L:111:PHE:HB3	1:L:113:LEU:HD21	1.74	0.69
4:F:1568:ASN:HD21	4:F:1596:VAL:HA	1.57	0.69
4:F:2158:ARG:HH22	4:F:2722:ARG:HE	1.38	0.69
6:C:66:ASN:HD21	6:C:77:ILE:HB	1.55	0.69
4:S:31:GLY:HA2	4:S:34:LEU:HD12	1.74	0.69
5:T:480:ASN:O	5:T:484:GLN:N	2.24	0.69
1:K:98:GLU:HG2	1:K:107:ARG:HA	1.74	0.69
4:F:915:THR:O	4:F:919:LEU:HB3	1.92	0.69
4:F:1420:ARG:NH2	4:F:1466:ASN:O	2.25	0.69
4:F:2099:ALA:HA	4:F:2102:LYS:HE3	1.74	0.69
4:F:2323:LEU:HA	4:F:2326:ILE:HD12	1.74	0.69
5:G:237:SER:OG	5:G:238:LYS:N	2.25	0.69
4:A:644:PRO:HB2	4:A:1505:LEU:HD11	1.73	0.69
4:A:1677:SER:O	4:A:1681:ASP:N	2.23	0.69
4:A:2524:PHE:HA	4:A:2530:ARG:HH21	1.56	0.69
4:A:4021:LEU:HD23	4:A:4028:ILE:HA	1.74	0.69
5:B:296:VAL:HG12	6:C:297:LEU:HD23	1.73	0.69
9:D:21:DA:H1'	10:E:36:DA:H2	1.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2514:ASN:HD22	4:S:2517:LEU:HG	1.56	0.69
5:T:401:THR:HG23	5:T:406:ILE:HG13	1.73	0.69
4:F:1209:LYS:NZ	4:F:1275:THR:O	2.22	0.69
4:F:1452:VAL:HG22	4:F:1517:LEU:HD11	1.72	0.69
4:F:2290:PRO:O	4:F:2292:CYS:N	2.25	0.69
5:G:375:VAL:HG13	6:H:539:LEU:HB3	1.74	0.69
4:A:2387:PRO:HD3	4:A:2418:LYS:HD2	1.75	0.69
4:A:2388:LYS:NZ	5:B:157:VAL:O	2.25	0.69
4:A:3024:PRO:HG2	4:A:3031:TRP:HE1	1.56	0.69
4:A:3034:PRO:HB2	4:A:3037:GLN:HG3	1.72	0.69
4:A:3751:LEU:HB3	4:A:3804:GLU:HA	1.74	0.69
4:S:1816:ARG:NH2	6:U:624:LEU:O	2.22	0.69
4:S:2341:LEU:HD23	4:S:2344:LEU:HD12	1.74	0.69
5:T:352:PRO:HA	5:T:395:ALA:H	1.57	0.69
4:F:666:PHE:HB2	4:F:732:PHE:CZ	2.28	0.69
4:F:1424:THR:HB	4:F:1426:GLN:HE22	1.55	0.69
5:G:258:ARG:HA	5:G:272:GLY:HA2	1.74	0.69
5:G:269:ILE:HA	5:G:375:VAL:HG11	1.73	0.69
6:H:211:VAL:O	6:H:215:LEU:N	2.25	0.69
4:A:1646:LEU:HD21	4:A:1692:ALA:HB2	1.72	0.69
6:C:453:ALA:HB2	6:C:532:LYS:HE2	1.72	0.69
4:S:1623:LEU:HD11	4:S:1671:VAL:HG11	1.74	0.69
4:S:2155:GLU:HA	4:S:2158:ARG:HG2	1.73	0.69
4:S:2213:ASN:ND2	4:S:2248:CYS:O	2.25	0.69
3:Y:36:LEU:HB3	3:Y:47:GLU:HB3	1.72	0.69
4:F:49:ALA:O	4:F:53:LEU:N	2.24	0.69
4:F:389:ILE:HG21	4:F:431:TYR:HD1	1.57	0.69
4:F:978:GLN:NE2	4:F:2594:ASP:OD1	2.26	0.69
4:S:100:ILE:O	4:S:104:SER:N	2.25	0.69
4:S:3974:MET:HG3	4:S:3979:LEU:H	1.56	0.69
5:T:42:VAL:HG11	5:T:63:SER:HB2	1.74	0.69
5:T:86:VAL:HG13	5:T:104:VAL:HG22	1.74	0.69
4:F:143:LEU:HD21	4:F:183:GLU:HA	1.75	0.69
5:B:505:ASP:HB3	6:C:405:VAL:HG13	1.74	0.69
9:D:42:DA:H2'	10:E:15:DA:H4'	1.75	0.69
4:S:1027:ASP:OD2	4:S:1031:ARG:NH2	2.26	0.69
4:S:2290:PRO:O	4:S:2292:CYS:N	2.25	0.69
4:F:1102:GLU:HG3	4:F:1154:PRO:HB3	1.75	0.69
4:F:3733:ARG:HH21	4:F:3758:LEU:HD11	1.58	0.69
5:G:85:VAL:HG22	5:G:106:GLN:HB3	1.73	0.69
4:A:1389:VAL:HG22	4:A:1390:GLN:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:242:ARG:HB3	6:C:265:LYS:HB2	1.74	0.69
6:U:426:PHE:H	6:U:429:ASP:HB2	1.58	0.69
2:M:664:PHE:HB2	2:M:682:ILE:HG12	1.75	0.69
2:M:790:GLU:HA	2:M:851:LYS:HE3	1.75	0.69
3:R:54:VAL:HG22	3:R:72:PHE:HE2	1.57	0.69
4:F:156:PHE:O	4:F:160:LEU:N	2.26	0.69
4:F:297:LEU:HD23	4:F:316:LEU:HG	1.74	0.69
4:F:1169:VAL:HG11	4:F:1198:LEU:HD21	1.73	0.69
4:F:1697:PRO:HB3	4:F:1753:SER:HB3	1.74	0.69
4:F:2883:SER:O	4:F:2885:GLN:NE2	2.23	0.69
4:F:4073:ALA:HB1	4:F:4076:ASP:HB3	1.73	0.69
5:G:194:ARG:HH21	5:G:200:LEU:H	1.41	0.69
6:H:7:LYS:O	6:H:128:GLU:N	2.25	0.69
6:H:199:GLU:HA	6:H:202:LYS:HD3	1.75	0.69
6:H:232:ARG:HH21	6:H:515:MET:HB3	1.56	0.69
4:A:789:TYR:O	4:A:793:LEU:HB2	1.91	0.69
4:A:1813:SER:HB2	4:A:1865:THR:HA	1.73	0.69
6:C:311:ILE:HG13	6:C:324:SER:HB2	1.74	0.69
4:S:1195:VAL:HG13	4:S:1207:TRP:HB3	1.74	0.69
4:S:1300:SER:O	4:S:1334:LYS:NZ	2.25	0.69
4:S:2102:LYS:O	4:S:2106:ARG:NH1	2.26	0.69
4:S:2158:ARG:HE	4:S:2199:LEU:HG	1.57	0.69
4:S:3117:ILE:HG13	4:S:3128:LYS:HG3	1.74	0.69
5:T:52:GLN:HG3	5:T:62:MET:HE2	1.73	0.69
5:T:304:ASN:HB3	6:U:289:ILE:HD13	1.75	0.69
5:T:325:ARG:HH11	6:U:501:PRO:HD3	1.56	0.69
5:T:339:ARG:O	6:U:489:ARG:NH1	2.25	0.69
6:U:238:LYS:HD2	6:U:242:ARG:HA	1.74	0.69
6:U:315:ARG:HH11	6:U:320:ILE:HG23	1.57	0.69
6:U:334:LYS:HD3	8:W:33:DA:C8	2.26	0.69
1:N:181:ILE:HD11	2:P:771:LEU:HB3	1.75	0.69
5:G:412:ALA:HB3	5:G:435:VAL:HG23	1.74	0.69
4:A:36:ARG:NH1	4:A:36:ARG:O	2.25	0.69
4:A:3176:MET:HA	4:A:3179:TRP:HD1	1.57	0.69
4:A:3450:MET:SD	4:A:3468:LEU:HB2	2.32	0.69
5:B:297:LYS:HB2	6:C:296:CYS:HB3	1.75	0.69
5:B:511:VAL:O	5:B:515:ASN:N	2.26	0.69
9:D:22:DA:N6	10:E:37:DG:O3'	2.24	0.69
4:S:2386:LEU:H	4:S:2418:LYS:HZ3	1.41	0.69
3:R:131:VAL:O	3:R:135:LEU:N	2.26	0.69
5:G:47:ALA:HA	5:G:171:ASN:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1888:ASP:HB3	4:A:1895:LYS:HD3	1.75	0.69
4:A:2562:LEU:HA	4:A:2565:MET:HE2	1.75	0.69
4:A:3962:ARG:NH1	4:A:4124:TRP:O	2.26	0.69
6:C:20:MET:HE3	6:C:140:SER:HB2	1.75	0.69
4:S:275:PHE:HD2	4:S:315:ALA:HB1	1.58	0.69
4:S:2723:THR:HA	4:S:2726:LEU:HD13	1.75	0.69
6:U:49:GLU:H	6:U:238:LYS:HB3	1.58	0.69
5:G:338:LYS:HG2	5:G:407:PRO:HD3	1.74	0.68
4:A:720:GLN:NE2	4:A:1020:PRO:O	2.26	0.68
4:A:2169:LEU:HD22	4:A:2208:ASP:HB3	1.75	0.68
4:A:3723:ASP:HB2	4:A:3739:ILE:HB	1.74	0.68
5:B:399:ARG:HD2	5:B:408:PRO:HB2	1.74	0.68
4:S:19:LEU:HD13	4:S:34:LEU:HD22	1.72	0.68
4:S:677:ALA:O	4:S:681:LYS:N	2.25	0.68
4:S:865:GLN:HE22	4:S:3171:ALA:H	1.39	0.68
4:S:1184:ARG:HG3	4:S:1262:ALA:HB1	1.75	0.68
4:S:1436:LEU:HD11	4:S:1486:LEU:HB3	1.75	0.68
4:S:1843:ILE:HA	4:S:1846:ASP:HB3	1.74	0.68
3:X:211:VAL:O	3:X:215:GLN:NE2	2.23	0.68
4:F:304:THR:HG22	4:F:305:ASN:H	1.57	0.68
4:F:894:PHE:N	4:F:905:ILE:O	2.26	0.68
4:F:3988:LEU:HB3	4:F:4100:GLU:HG3	1.75	0.68
5:G:414:VAL:HB	5:G:433:GLN:HB2	1.76	0.68
5:B:259:LEU:HD11	5:B:402:PRO:HA	1.74	0.68
4:S:759:GLY:HA3	4:S:765:LEU:HB2	1.74	0.68
4:S:3252:PHE:O	4:S:3289:ARG:NH2	2.25	0.68
5:T:354:VAL:HG21	6:U:473:LEU:HB2	1.74	0.68
6:U:44:ARG:HA	6:U:234:LEU:HA	1.75	0.68
2:M:819:TYR:HB3	2:M:863:VAL:HG22	1.75	0.68
1:N:137:ASN:OD1	1:O:137:ASN:ND2	2.26	0.68
2:P:856:LEU:HD12	2:P:878:PHE:HD2	1.58	0.68
4:F:83:GLU:HG2	4:F:126:PRO:HD3	1.74	0.68
4:F:2452:ARG:NH2	4:F:2497:GLU:OE1	2.26	0.68
4:F:2526:SER:HA	4:F:2531:LEU:HD12	1.74	0.68
5:G:523:ASP:HB2	6:H:256:ASN:HB3	1.74	0.68
4:A:885:ALA:O	4:A:888:ARG:NH2	2.26	0.68
4:S:775:GLU:O	4:S:779:TYR:HB2	1.92	0.68
1:K:3:ARG:HA	1:K:75:LEU:HD13	1.76	0.68
4:F:1019:ASP:O	4:F:1026:ARG:NH1	2.26	0.68
4:F:2803:ILE:HG23	4:F:2806:LYS:HZ1	1.56	0.68
4:A:1015:ASP:HA	4:A:1018:VAL:HG12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:47:ALA:HB1	5:B:171:ASN:H	1.58	0.68
5:B:93:ASP:O	5:B:98:ASN:ND2	2.23	0.68
6:U:92:GLU:HG2	6:U:499:LEU:HD11	1.74	0.68
6:U:660:LYS:HD3	6:U:702:LYS:HD2	1.76	0.68
4:F:1039:TRP:HA	4:F:1042:LYS:HD3	1.75	0.68
5:G:261:LEU:HB2	5:G:269:ILE:HB	1.74	0.68
4:A:919:LEU:HA	4:A:972:LEU:HD21	1.75	0.68
5:B:443:LYS:HE2	6:C:361:VAL:HB	1.74	0.68
4:S:1441:ALA:H	4:S:1445:ARG:HH21	1.41	0.68
5:T:258:ARG:HB2	7:V:34:DC:H2'	1.75	0.68
1:K:137:ASN:CA	1:L:139:ALA:H	2.05	0.68
4:A:373:CYS:O	4:A:377:ASN:N	2.27	0.68
4:A:3778:ASP:HB2	4:A:3787:GLN:N	2.08	0.68
5:B:34:GLY:O	5:B:253:LYS:NZ	2.27	0.68
4:S:3451:LEU:O	4:S:3455:LYS:N	2.26	0.68
3:X:15:TRP:HB2	3:X:211:VAL:HG21	1.74	0.68
4:F:565:TYR:CD2	4:F:641:PHE:HB2	2.26	0.68
4:F:1419:LEU:HD12	4:F:1422:LYS:HB2	1.75	0.68
4:F:3860:LYS:HA	4:F:4073:ALA:HB2	1.75	0.68
4:A:863:GLY:HA3	4:A:3167:ARG:HB3	1.76	0.68
4:A:876:SER:HB2	4:A:879:MET:HB2	1.75	0.68
4:A:3190:LEU:HA	4:A:3193:ILE:HG22	1.73	0.68
6:C:11:VAL:HG23	6:C:55:ALA:HB3	1.76	0.68
6:C:526:SER:O	6:C:530:LEU:N	2.21	0.68
5:T:327:ILE:HG23	6:U:497:ARG:HD2	1.76	0.68
1:K:127:ILE:HB	1:L:7:ARG:HH21	1.59	0.68
1:N:44:THR:HG22	1:N:45:GLY:H	1.59	0.68
3:R:137:ARG:HB3	3:R:138:PRO:HD3	1.75	0.68
5:G:73:SER:HA	5:G:247:ARG:HB3	1.76	0.68
5:G:321:ILE:H	6:H:274:LYS:HE3	1.59	0.68
6:H:510:GLN:HE22	6:H:514:ASN:HD22	1.39	0.68
4:A:3176:MET:HA	4:A:3179:TRP:CD1	2.28	0.68
5:B:95:ASN:HD21	5:B:99:PHE:H	1.40	0.68
4:S:232:CYS:SG	4:S:246:ARG:NH2	2.67	0.68
4:S:2801:ASP:HB3	4:S:2804:ILE:HG12	1.75	0.68
5:T:245:LYS:O	5:T:247:ARG:NH1	2.26	0.68
3:X:184:PHE:HE2	3:Y:149:GLN:HG3	1.57	0.68
1:N:47:VAL:HG21	1:N:111:PHE:HD1	1.57	0.68
5:G:163:HIS:HE1	5:G:165:ARG:HB2	1.58	0.68
4:A:667:TYR:CE2	4:A:727:ALA:HB3	2.29	0.68
4:A:730:LEU:HD22	4:A:755:ALA:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:4035:GLU:HG3	4:A:4038:TRP:HB3	1.75	0.68
5:B:458:GLN:NE2	5:B:527:GLU:OE2	2.27	0.68
6:C:478:PRO:HG2	6:C:482:ILE:HD12	1.74	0.68
4:S:418:ALA:HB1	4:S:463:LYS:HB3	1.76	0.68
4:S:537:SER:O	4:S:541:MET:N	2.27	0.68
4:S:538:ASP:HA	4:S:541:MET:HB3	1.76	0.68
4:S:1021:VAL:O	4:S:1026:ARG:NH1	2.27	0.68
4:S:1728:GLU:OE1	6:U:615:GLN:NE2	2.26	0.68
4:S:2814:SER:HB2	4:S:2864:GLN:HG2	1.76	0.68
4:S:3151:LEU:HD22	4:S:3196:LYS:HG2	1.74	0.68
4:S:3169:PRO:HA	4:S:3182:ILE:HG13	1.76	0.68
2:M:879:ARG:HB3	2:M:885:LYS:HG2	1.74	0.68
4:F:532:ARG:HH12	4:F:633:ILE:HD13	1.59	0.68
4:F:3931:ALA:HB3	4:F:3936:GLY:H	1.58	0.68
6:H:280:ASP:HB3	6:H:283:THR:HG22	1.75	0.68
4:A:2421:VAL:O	4:A:2425:ARG:NH1	2.27	0.68
6:C:9:ALA:HB3	6:C:130:ARG:HG3	1.76	0.68
4:S:1873:TYR:HA	4:S:1877:LEU:HD13	1.76	0.68
4:S:3878:VAL:HB	4:S:4127:TRP:HB2	1.76	0.68
4:S:3949:ALA:C	4:S:4068:HIS:H	1.97	0.68
2:P:666:VAL:HA	2:P:701:ILE:HB	1.75	0.67
4:F:16:GLN:NE2	4:F:62:ASP:OD2	2.28	0.67
4:F:1442:GLN:OE1	4:F:1445:ARG:NH2	2.25	0.67
4:F:1679:LEU:HB3	4:F:1717:LEU:HD21	1.76	0.67
4:F:3988:LEU:O	4:F:3992:ARG:NH1	2.26	0.67
5:G:325:ARG:HH22	6:H:92:GLU:HG3	1.59	0.67
5:G:412:ALA:HB2	5:G:437:LEU:HD21	1.75	0.67
6:H:11:VAL:HG21	6:H:117:VAL:HG13	1.76	0.67
4:A:763:THR:HB	4:A:846:ILE:H	1.59	0.67
4:A:3536:SER:HA	4:A:3759:ARG:HD3	1.76	0.67
4:A:3951:GLN:O	4:A:4070:LYS:N	2.26	0.67
4:S:992:ILE:HD12	4:S:1036:PHE:HB2	1.75	0.67
4:S:3467:ARG:NH1	4:S:3996:GLY:O	2.27	0.67
5:T:249:LYS:HA	6:U:428:GLU:HA	1.75	0.67
5:T:318:ARG:HB3	6:U:276:TRP:HB3	1.75	0.67
6:U:205:LEU:HA	6:U:208:VAL:HG12	1.76	0.67
6:U:492:GLN:HA	6:U:495:LEU:HD12	1.75	0.67
1:L:22:VAL:HG22	1:L:34:ILE:HG23	1.76	0.67
2:M:787:GLN:HB2	2:M:792:MET:HB2	1.76	0.67
4:F:324:SER:HB3	4:F:368:LEU:HD13	1.76	0.67
4:F:1684:LEU:O	4:F:1689:LYS:NZ	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:192:ASP:O	5:G:196:THR:N	2.26	0.67
6:H:400:ARG:HG2	7:I:25:DA:H1'	1.76	0.67
4:S:2791:ILE:O	4:S:2795:GLN:N	2.23	0.67
4:S:2884:LEU:HG	4:S:3113:ASN:HB3	1.75	0.67
5:T:260:LYS:HG2	5:T:374:LEU:HD22	1.75	0.67
1:N:131:LEU:HD11	1:O:5:ILE:HB	1.74	0.67
4:F:1685:ASP:H	4:F:1688:LEU:HD12	1.59	0.67
4:F:3808:ASN:ND2	4:F:3933:GLU:OE1	2.27	0.67
4:A:1179:PRO:HA	4:A:1262:ALA:HB2	1.76	0.67
4:A:1826:THR:O	4:A:1830:HIS:ND1	2.27	0.67
4:A:3820:MET:HB3	4:A:3882:LEU:HD11	1.76	0.67
5:B:79:ASP:HA	5:B:111:PRO:HD2	1.76	0.67
4:S:524:TYR:HA	4:S:527:TYR:HD2	1.59	0.67
1:L:8:ILE:HG21	1:L:20:LEU:HD12	1.77	0.67
1:N:152:LEU:HA	1:O:151:LEU:HD22	1.76	0.67
1:O:85:THR:HG21	1:O:99:LYS:HA	1.76	0.67
1:O:121:GLU:HA	1:O:124:ARG:HD3	1.74	0.67
6:H:686:ILE:HG12	6:H:702:LYS:HE2	1.76	0.67
4:A:1493:PRO:HG3	4:A:1501:PRO:HD3	1.76	0.67
4:A:2174:SER:HB3	4:A:2214:ARG:HB3	1.76	0.67
4:A:3625:LEU:O	4:A:3630:ARG:NH1	2.27	0.67
5:B:48:MET:HB3	5:B:60:PHE:HB2	1.76	0.67
5:B:84:ALA:HB2	5:B:108:LEU:HG	1.76	0.67
6:C:212:MET:O	6:C:216:GLU:N	2.26	0.67
4:S:2161:ALA:HA	4:S:2164:TRP:HB2	1.74	0.67
4:S:3608:LYS:HG3	4:S:3612:ARG:HE	1.60	0.67
6:U:48:ALA:HB3	6:U:235:CYS:HA	1.75	0.67
4:F:1104:LEU:HD13	4:F:1134:LEU:HD13	1.77	0.67
4:F:1574:ASN:HD21	4:F:1577:LEU:HB2	1.58	0.67
4:A:2550:ILE:HG13	4:A:2554:PHE:HB2	1.77	0.67
4:A:3003:ASN:O	4:A:3046:ARG:NH2	2.25	0.67
5:B:533:ASP:HB3	6:C:257:LEU:HD11	1.75	0.67
4:S:928:VAL:HB	4:S:2769:VAL:HG11	1.77	0.67
4:S:1079:SER:HB3	4:S:1111:LEU:HD23	1.77	0.67
4:F:2295:GLN:HG3	4:F:2298:GLU:HB3	1.76	0.67
4:F:2321:GLU:HB2	4:F:2366:LYS:HE2	1.76	0.67
4:F:3190:LEU:HD13	4:F:3231:ILE:HB	1.76	0.67
5:G:41:LEU:HD23	5:G:166:ILE:HG23	1.77	0.67
4:A:465:PHE:HZ	4:A:482:VAL:HG11	1.60	0.67
4:A:2574:ASN:O	4:A:2787:HIS:ND1	2.28	0.67
4:A:3828:TYR:HA	4:A:3835:PRO:HD2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3951:GLN:C	4:A:4069:GLU:H	1.97	0.67
5:B:275:ASN:O	10:E:26:DT:N3	2.23	0.67
9:D:31:DA:N3	9:D:32:DA:N6	2.42	0.67
4:S:341:PHE:HB3	4:S:369:PHE:CD1	2.26	0.67
4:S:2157:PHE:HB2	4:S:2160:TYR:HB3	1.75	0.67
3:X:213:ASN:HD21	3:Y:151:ARG:HG3	1.59	0.67
4:F:1220:LEU:HA	4:F:1224:PHE:HD2	1.59	0.67
4:F:3613:MET:O	4:F:3617:LEU:N	2.23	0.67
4:F:3729:MET:HB2	4:F:3735:PRO:HB2	1.76	0.67
4:F:4054:ALA:O	4:F:4103:GLN:NE2	2.27	0.67
4:A:1146:ASN:ND2	4:A:1197:LEU:O	2.28	0.67
4:A:2531:LEU:O	4:A:2538:ARG:NH2	2.28	0.67
4:A:2806:LYS:NZ	4:A:2807:GLN:OE1	2.22	0.67
4:S:345:PHE:HB3	4:S:349:ILE:HD12	1.77	0.67
4:S:3166:ASN:ND2	4:S:3182:ILE:O	2.28	0.67
4:S:3594:ALA:HB1	4:S:4011:PHE:HA	1.77	0.67
1:K:137:ASN:HB3	1:L:139:ALA:HB3	1.75	0.67
4:F:891:ARG:NH1	4:F:956:PRO:O	2.28	0.67
4:F:2347:LYS:HA	4:F:2350:LYS:HD2	1.77	0.67
4:F:3121:LEU:HB3	4:F:3124:SER:HB2	1.75	0.67
4:A:1177:GLY:HA2	4:A:1184:ARG:HG3	1.76	0.67
4:A:2260:PHE:HB2	4:A:2270:ASN:HD22	1.60	0.67
4:A:3243:ILE:HD11	4:A:3259:LEU:HB2	1.76	0.67
4:S:2266:ASN:HB2	4:S:2311:ARG:HB2	1.76	0.67
5:T:194:ARG:HE	5:T:199:PHE:HA	1.60	0.67
5:T:298:THR:HA	6:U:295:TYR:HA	1.74	0.67
6:U:388:ASP:HA	6:U:410:PRO:HG3	1.75	0.67
6:U:484:ASN:O	6:U:488:GLN:N	2.27	0.67
4:F:3410:ILE:HG22	4:F:3414:MET:HE1	1.77	0.67
6:H:250:ARG:HH11	6:H:260:ARG:HE	1.42	0.67
4:A:1098:GLN:HG2	4:A:1152:ARG:HG3	1.77	0.67
4:A:3536:SER:O	4:A:3540:TYR:N	2.27	0.67
4:A:4020:MET:HB3	4:A:4027:TRP:HB3	1.76	0.67
5:B:285:PRO:HB2	6:C:312:GLN:HB3	1.77	0.67
4:S:960:GLN:OE1	4:S:964:ARG:NH2	2.28	0.67
4:S:1632:TRP:HA	4:S:1637:SER:HB3	1.76	0.67
4:S:1934:LEU:HD13	4:S:1937:ARG:HH22	1.59	0.67
4:S:3590:ASN:OD1	4:S:3664:ASN:ND2	2.27	0.67
3:Q:43:GLN:NE2	3:Q:102:ASP:OD1	2.28	0.67
3:Q:43:GLN:HE21	3:Q:125:LEU:HD13	1.60	0.67
4:F:374:LYS:HD2	4:F:381:VAL:HG21	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:762:TYR:HD2	4:F:765:LEU:HB2	1.60	0.67
4:F:1949:ILE:HG12	4:F:2100:LEU:HD22	1.75	0.67
4:F:2205:VAL:HG13	4:F:2208:ASP:H	1.59	0.67
4:F:2415:LEU:HB2	4:F:2420:PHE:HB2	1.77	0.67
4:F:3269:ARG:HE	4:F:3271:ASP:HB2	1.60	0.67
5:G:173:ASP:OD2	5:G:207:LYS:NZ	2.28	0.67
6:H:168:SER:H	6:H:192:PHE:HB2	1.60	0.67
4:A:979:VAL:HA	4:A:2591:ILE:HD11	1.76	0.67
4:A:3497:SER:OG	4:A:3708:ARG:NH2	2.27	0.67
5:B:66:CYS:HB2	5:B:239:LEU:HD12	1.76	0.67
6:C:83:LEU:HB3	6:C:121:GLU:HG3	1.77	0.67
4:S:2388:LYS:NZ	5:T:157:VAL:O	2.27	0.67
6:U:643:ARG:HH12	6:U:647:ILE:HG13	1.59	0.67
7:V:37:DT:O2	8:W:22:DG:N2	2.27	0.67
1:L:178:LYS:HZ3	2:M:787:GLN:H	1.40	0.66
4:F:3720:ALA:HB3	4:F:3743:HIS:HA	1.77	0.66
4:A:631:ARG:NH1	4:A:671:SER:OG	2.24	0.66
6:C:271:ARG:HH12	6:C:273:LYS:HD3	1.59	0.66
4:S:183:GLU:HG2	4:S:184:VAL:H	1.60	0.66
3:R:135:LEU:HA	3:R:139:LEU:HD12	1.77	0.66
4:F:2491:THR:HB	4:F:2496:GLN:HE21	1.60	0.66
4:F:3059:GLN:HA	4:F:3062:LEU:HB3	1.77	0.66
4:A:411:PRO:HB3	4:A:457:CYS:HA	1.78	0.66
4:A:1099:PHE:HA	4:A:1102:GLU:HB2	1.75	0.66
4:A:2550:ILE:O	4:A:2554:PHE:N	2.27	0.66
5:B:254:ARG:HB2	9:D:33:DA:H1'	1.77	0.66
4:S:1050:GLU:OE1	4:S:1055:ASN:ND2	2.29	0.66
1:K:59:MET:HE1	1:K:108:LEU:HA	1.78	0.66
2:M:711:ASN:ND2	6:C:327:ASP:OD1	2.29	0.66
3:Q:47:GLU:OE2	3:Q:57:ARG:NH1	2.27	0.66
4:F:3661:ASP:HA	4:F:3664:ASN:HD22	1.59	0.66
6:H:57:VAL:HA	6:H:79:VAL:HA	1.77	0.66
4:A:989:MET:HE1	4:A:2779:ASP:HA	1.76	0.66
4:A:1099:PHE:HE1	4:A:1152:ARG:HH22	1.43	0.66
4:A:1824:LEU:O	4:A:1828:LEU:N	2.20	0.66
4:A:2861:ILE:O	4:A:2865:HIS:ND1	2.27	0.66
4:A:3626:GLY:HA2	4:A:3683:CYS:HA	1.76	0.66
4:S:131:LEU:HD23	4:S:134:LEU:HD12	1.77	0.66
6:U:662:LEU:HA	6:U:665:LYS:HG2	1.76	0.66
1:O:34:ILE:O	1:O:45:GLY:N	2.28	0.66
2:P:739:GLN:H	2:P:742:PHE:HE1	1.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1423:ILE:HD11	4:F:1427:SER:H	1.61	0.66
4:F:1663:THR:O	4:F:1665:HIS:ND1	2.28	0.66
4:A:1821:ASP:HA	4:A:1825:LEU:HG	1.78	0.66
4:A:3839:TYR:O	4:A:3843:LEU:HG	1.94	0.66
6:U:476:LEU:HD13	6:U:519:PRO:HB3	1.76	0.66
4:F:2380:ASN:HD22	5:G:192:ASP:HB3	1.60	0.66
4:F:3704:GLN:NE2	4:F:3717:VAL:O	2.26	0.66
4:F:3928:PHE:HA	4:F:3940:ILE:HD13	1.77	0.66
4:A:253:LEU:O	6:C:551:GLN:NE2	2.29	0.66
4:A:263:LYS:HB3	9:D:40:DT:H5'	1.76	0.66
4:A:1065:SER:O	4:A:3741:ARG:NH1	2.28	0.66
4:A:1121:LEU:HG	4:A:1122:GLY:H	1.59	0.66
4:A:1848:ILE:HG13	4:A:1911:LEU:HD21	1.75	0.66
5:B:481:PRO:O	5:B:485:GLN:CB	2.43	0.66
4:S:2574:ASN:O	4:S:2787:HIS:ND1	2.26	0.66
4:S:4064:LEU:HB3	4:S:4077:TYR:HB3	1.77	0.66
5:T:44:ALA:HA	5:T:48:MET:HG2	1.76	0.66
5:T:261:LEU:HD12	5:T:271:VAL:HG11	1.77	0.66
2:P:826:ILE:HG21	2:P:856:LEU:HG	1.77	0.66
3:R:174:LEU:HD11	3:R:180:LYS:HB3	1.76	0.66
4:F:108:LYS:HZ2	4:F:148:LYS:HB2	1.61	0.66
4:F:676:ASN:HA	4:F:679:LYS:HE2	1.76	0.66
4:A:1372:LEU:HD21	4:A:1399:CYS:HA	1.77	0.66
5:B:182:LYS:HA	5:B:185:ARG:HH21	1.60	0.66
4:S:46:SER:HB2	4:S:91:ILE:HD12	1.77	0.66
4:S:1511:ALA:HA	4:S:1514:LEU:HD12	1.78	0.66
4:S:1825:LEU:HD13	4:S:1828:LEU:HD12	1.78	0.66
4:S:3350:GLU:HG2	4:S:3360:LEU:HD11	1.76	0.66
6:U:630:PRO:HA	6:U:633:MET:HG3	1.78	0.66
2:M:767:ILE:HD13	2:M:773:GLN:HE22	1.60	0.66
4:F:37:GLY:HA2	4:F:40:GLN:HG2	1.78	0.66
4:F:1397:ASP:OD1	4:F:1398:VAL:N	2.29	0.66
6:H:663:GLN:HE21	6:H:667:GLU:HG3	1.60	0.66
4:A:57:LEU:HG	4:A:103:TYR:HE2	1.61	0.66
6:C:328:GLU:HG3	6:C:332:LYS:HB3	1.78	0.66
4:S:1529:VAL:HG21	4:S:1578:ALA:HB1	1.78	0.66
4:S:2254:ARG:HH21	4:S:2292:CYS:HB3	1.60	0.66
4:S:2851:PHE:HB3	4:S:2854:PHE:HB3	1.77	0.66
4:S:3853:GLY:H	4:S:3856:MET:HB2	1.60	0.66
6:U:454:VAL:HA	6:U:457:LEU:HB3	1.77	0.66
4:F:639:ALA:HA	4:F:642:PHE:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1021:VAL:O	4:F:1026:ARG:NH1	2.29	0.66
4:F:1649:LEU:HA	4:F:1652:ILE:HD12	1.77	0.66
5:G:303:PHE:HB3	6:H:290:GLN:HB3	1.77	0.66
4:A:1639:LEU:HD11	4:A:1685:ASP:HB2	1.77	0.66
4:S:3313:SER:HA	4:S:3326:GLN:HG2	1.76	0.66
2:P:706:ASN:HB2	2:P:709:VAL:HG23	1.78	0.66
4:F:667:TYR:HB2	4:F:732:PHE:CG	2.30	0.66
4:F:2930:TYR:O	4:F:2935:GLU:N	2.29	0.66
5:G:76:ILE:HB	5:G:247:ARG:HB2	1.78	0.66
7:I:41:DT:O2	7:I:42:DA:N6	2.27	0.66
4:S:1055:ASN:H	4:S:1058:SER:HG	1.43	0.66
4:S:3482:LEU:HD22	4:S:3514:VAL:HG11	1.77	0.66
5:T:357:LYS:HD3	5:T:359:HIS:HE1	1.61	0.66
2:M:671:ASP:HB2	2:M:723:PRO:HD2	1.78	0.66
4:F:850:GLU:HA	4:F:853:ILE:HD12	1.78	0.66
4:F:2587:GLN:O	4:F:2777:HIS:N	2.28	0.66
4:A:2547:SER:OG	4:A:2549:LYS:NZ	2.28	0.66
4:A:3158:LYS:HG2	4:A:3226:ASP:HB2	1.78	0.66
4:A:3353:GLU:HG2	4:A:3356:ALA:H	1.59	0.66
5:B:299:LYS:HB2	6:C:294:VAL:HB	1.79	0.66
4:S:178:LEU:HB3	4:S:227:LEU:HD12	1.76	0.66
4:S:178:LEU:HB3	4:S:227:LEU:HB2	1.77	0.66
4:S:200:PHE:CZ	4:S:227:LEU:HD22	2.31	0.66
4:S:262:LEU:HA	7:V:41:DT:H4'	1.78	0.66
4:S:381:VAL:HB	4:S:424:LEU:HD13	1.78	0.66
4:S:2470:ARG:HH12	4:S:2514:ASN:H	1.44	0.66
2:P:890:LYS:NZ	2:P:909:TYR:O	2.28	0.65
4:F:228:SER:O	4:F:232:CYS:N	2.24	0.65
4:F:414:LEU:HB2	4:F:460:ALA:HB1	1.78	0.65
4:F:883:TYR:HA	4:F:886:TRP:HE1	1.59	0.65
4:F:1712:ARG:HH21	4:F:1713:VAL:HG13	1.61	0.65
5:B:420:LEU:HB3	5:B:424:LYS:HG3	1.76	0.65
4:S:2772:TYR:OH	4:S:2800:ARG:NH2	2.29	0.65
4:S:3595:GLU:OE2	4:S:4014:LYS:NZ	2.27	0.65
5:G:264:ASN:OD1	5:G:267:ILE:N	2.26	0.65
4:A:273:ARG:NH1	4:A:314:SER:OG	2.29	0.65
4:A:1624:GLN:HG3	4:A:1661:PHE:HZ	1.59	0.65
4:S:1096:VAL:O	4:S:1100:VAL:HG13	1.95	0.65
4:S:2384:PHE:HA	5:T:151:ALA:HB1	1.78	0.65
4:S:2427:ARG:HH21	4:S:2461:PHE:HA	1.61	0.65
4:S:3046:ARG:HE	4:S:3050:LYS:HG2	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:330:GLU:O	5:T:334:THR:N	2.25	0.65
3:Y:6:GLN:NE2	3:Y:222:THR:O	2.29	0.65
1:K:18:HIS:HB3	1:K:36:LEU:HD11	1.77	0.65
1:L:143:HIS:O	1:L:146:LYS:HG3	1.96	0.65
4:F:2441:LYS:O	4:F:2445:LYS:NZ	2.25	0.65
4:F:3595:GLU:HB3	4:F:3601:VAL:HB	1.77	0.65
5:G:211:PHE:O	5:G:218:ARG:NH2	2.30	0.65
5:G:335:GLU:O	5:G:339:ARG:N	2.30	0.65
6:H:626:THR:HG22	6:H:628:GLU:H	1.60	0.65
4:A:663:ILE:HG22	4:A:665:GLY:H	1.61	0.65
4:A:1100:VAL:HG21	4:A:1145:LEU:HD22	1.78	0.65
4:A:1727:ARG:NH2	4:A:1771:GLN:O	2.29	0.65
4:A:1779:GLN:HB3	4:A:1826:THR:HG21	1.77	0.65
6:C:361:VAL:HG13	6:C:421:TYR:H	1.59	0.65
6:U:111:LEU:HB3	6:U:150:ILE:HB	1.76	0.65
3:X:193:PHE:HA	3:X:197:LYS:HB2	1.77	0.65
3:Q:54:VAL:HA	3:Q:57:ARG:HH21	1.60	0.65
4:F:1040:SER:O	4:F:1044:ILE:N	2.26	0.65
4:F:2225:HIS:ND1	4:F:2234:ASN:OD1	2.25	0.65
5:G:454:ALA:HB2	6:H:375:VAL:HG22	1.78	0.65
7:I:26:DA:H2 ^o	7:I:27:DC:C6	2.30	0.65
4:A:1291:LEU:HD12	4:A:1360:LYS:HD3	1.78	0.65
4:A:2436:LEU:HD13	4:A:2473:MET:HB3	1.76	0.65
6:C:42:VAL:HG11	6:C:94:ILE:HD12	1.78	0.65
4:S:443:ILE:HG22	4:S:527:TYR:HE1	1.62	0.65
4:S:910:PHE:HZ	4:S:2808:LEU:HB2	1.61	0.65
4:S:3150:ASN:HB3	4:S:3155:VAL:HG21	1.77	0.65
5:T:358:LYS:HG2	6:U:353:ARG:HE	1.60	0.65
4:F:388:LEU:HD12	4:F:391:ARG:HB2	1.76	0.65
4:F:1881:TYR:OH	4:F:1955:VAL:N	2.28	0.65
4:F:3410:ILE:HG23	4:F:3453:ALA:HB1	1.78	0.65
5:G:95:ASN:ND2	5:G:99:PHE:O	2.30	0.65
4:A:1169:VAL:HG11	4:A:1198:LEU:HD11	1.79	0.65
6:C:496:HIS:CD2	6:C:503:GLU:HB3	2.32	0.65
4:S:142:ARG:NH2	4:S:181:LEU:O	2.24	0.65
4:S:3585:PHE:O	4:S:3589:SER:N	2.29	0.65
5:T:206:LYS:HG2	5:T:207:LYS:HG3	1.79	0.65
6:U:16:VAL:HG11	6:U:61:THR:HB	1.77	0.65
6:U:50:ASN:H	6:U:236:VAL:HA	1.62	0.65
1:N:34:ILE:HG23	1:N:113:LEU:HG	1.78	0.65
4:F:721:TYR:HB2	4:F:726:LEU:HD13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:860:GLY:O	4:F:3133:GLN:NE2	2.29	0.65
6:H:408:ALA:HA	6:H:421:TYR:HA	1.79	0.65
4:A:3562:LEU:HB3	4:A:3568:ILE:HG21	1.76	0.65
4:A:3951:GLN:O	4:A:4070:LYS:HG2	1.96	0.65
4:A:4086:ASP:OD2	4:A:4115:ASN:ND2	2.29	0.65
4:S:431:TYR:HB3	4:S:434:VAL:HB	1.78	0.65
5:T:381:LEU:HD13	6:U:539:LEU:HD11	1.79	0.65
2:M:827:ASN:HA	2:M:855:CYS:HA	1.77	0.65
1:O:158:VAL:HG13	1:O:161:ARG:HH21	1.61	0.65
2:P:868:ASP:HB3	2:P:871:ARG:HE	1.60	0.65
4:F:672:ILE:O	4:F:676:ASN:ND2	2.29	0.65
4:F:785:MET:HA	4:F:788:TYR:CZ	2.31	0.65
4:F:1034:ARG:HB3	4:F:1085:ILE:HG22	1.79	0.65
5:G:262:LYS:NZ	5:G:343:PRO:O	2.29	0.65
4:S:3927:ASN:HA	4:S:3940:ILE:HB	1.79	0.65
5:T:73:SER:HA	5:T:247:ARG:HB3	1.77	0.65
5:T:489:ASN:ND2	6:U:331:MET:O	2.30	0.65
1:O:141:ASN:O	1:O:145:GLN:NE2	2.30	0.65
2:P:890:LYS:HG2	2:P:909:TYR:HB3	1.79	0.65
3:Q:65:LEU:HD22	3:Q:117:PHE:HB2	1.79	0.65
3:Q:193:PHE:HZ	3:R:148:CYS:HB2	1.61	0.65
4:F:729:CYS:O	4:F:732:PHE:HB3	1.97	0.65
4:F:1750:LEU:O	4:F:1754:GLN:N	2.20	0.65
4:F:3925:LEU:HA	4:F:3928:PHE:HD2	1.61	0.65
5:G:338:LYS:HD3	5:G:406:ILE:HG22	1.79	0.65
6:H:39:THR:HG21	6:H:95:GLU:HB2	1.79	0.65
7:I:20:DT:H4'	8:J:36:DG:C4	2.32	0.65
4:A:3581:PRO:O	4:A:3585:PHE:HB2	1.97	0.65
4:A:3813:LYS:HD3	4:A:3925:LEU:HB2	1.79	0.65
4:S:477:ASN:OD1	4:S:478:CYS:N	2.29	0.65
4:S:3837:CYS:SG	4:S:3838:GLU:N	2.70	0.65
1:K:137:ASN:HB2	1:L:135:ALA:HA	1.78	0.65
1:L:187:LYS:NZ	2:M:764:SER:O	2.29	0.65
2:M:701:ILE:HA	2:M:721:VAL:HB	1.77	0.65
4:F:23:ASP:O	4:F:70:ARG:NH2	2.30	0.65
4:F:923:ASP:O	4:F:926:THR:N	2.30	0.65
4:F:2887:PRO:HB3	4:F:3895:GLU:HB3	1.78	0.65
4:F:3117:ILE:O	4:F:3125:ARG:NH2	2.29	0.65
5:G:203:MET:HE1	5:G:239:LEU:HG	1.79	0.65
5:G:484:GLN:O	5:G:488:ARG:HD3	1.96	0.65
4:A:42:CYS:SG	4:A:87:LYS:NZ	2.69	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1526:GLU:HB3	4:A:1577:LEU:HD13	1.78	0.65
4:A:3171:ALA:HA	4:A:3179:TRP:HE1	1.62	0.65
4:A:3772:ASN:O	4:A:3776:ALA:CB	2.44	0.65
4:A:4060:THR:OG1	4:A:4082:ARG:NH1	2.30	0.65
4:S:470:ALA:HA	4:S:1550:VAL:HB	1.79	0.65
4:S:924:ARG:HB3	4:S:2766:ASP:HB3	1.77	0.65
5:T:173:ASP:O	5:T:215:LEU:N	2.28	0.65
5:T:454:ALA:HB3	6:U:379:SER:HB3	1.79	0.65
6:U:249:CYS:O	6:U:260:ARG:NH1	2.29	0.65
2:M:701:ILE:HG21	2:M:726:LEU:HD22	1.79	0.65
4:F:3084:GLN:O	4:F:3088:LEU:HG	1.96	0.65
4:F:3333:THR:O	4:F:3337:ILE:HG12	1.96	0.65
4:F:3493:TRP:CD1	4:F:3521:ILE:HA	2.32	0.65
6:H:184:ARG:NH2	6:H:476:LEU:O	2.29	0.65
4:A:1018:VAL:HA	4:A:1073:PHE:HB3	1.79	0.65
4:A:1348:LEU:O	4:A:1352:SER:N	2.28	0.65
4:S:1049:GLN:HG2	4:S:1055:ASN:HA	1.78	0.65
6:U:390:VAL:HG12	6:U:409:PHE:HA	1.79	0.65
2:P:720:VAL:HG12	2:P:744:ILE:HD12	1.79	0.64
3:Q:21:ASN:ND2	3:Q:99:CYS:SG	2.70	0.64
4:F:828:LYS:O	4:F:832:LYS:NZ	2.29	0.64
4:F:1368:LEU:HB3	4:F:1372:LEU:HD23	1.78	0.64
4:F:2865:HIS:HB2	4:F:2868:LEU:HB2	1.80	0.64
5:G:260:LYS:HD3	5:G:270:SER:HA	1.79	0.64
6:H:660:LYS:HD3	6:H:688:LYS:H	1.61	0.64
4:A:2429:ASP:O	4:A:2433:LYS:CB	2.45	0.64
4:A:3196:LYS:O	4:A:3196:LYS:HD2	1.96	0.64
4:A:3495:PHE:HA	4:A:3498:TRP:HE3	1.62	0.64
6:C:10:VAL:HG22	6:C:131:HIS:HB2	1.79	0.64
2:M:693:PRO:O	5:B:290:ARG:NH2	2.30	0.64
3:Q:24:LEU:HD22	3:R:140:MET:HE1	1.78	0.64
3:Q:62:ASN:ND2	3:Q:118:TYR:O	2.30	0.64
4:F:2308:SER:HB2	4:F:2352:HIS:CE1	2.31	0.64
4:F:2813:PHE:HA	4:F:2816:ILE:HG22	1.77	0.64
6:H:60:GLY:H	6:H:76:ASN:HB3	1.62	0.64
6:H:185:LEU:HG	6:H:514:ASN:OD1	1.97	0.64
6:H:337:GLY:H	6:H:399:LYS:HA	1.62	0.64
4:A:2967:GLU:OE1	4:A:2971:GLN:NE2	2.30	0.64
6:C:261:ILE:HG21	6:C:362:LEU:HD23	1.79	0.64
4:S:1948:ALA:O	4:S:1952:ILE:HG12	1.98	0.64
5:T:339:ARG:HH21	5:T:342:ASP:HA	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:8:LEU:HD21	3:Y:37:LEU:HB2	1.78	0.64
4:F:217:LEU:HD23	4:F:218:PRO:HD3	1.80	0.64
4:F:320:LEU:HA	4:F:323:VAL:HG22	1.78	0.64
4:F:2384:PHE:HE1	5:G:154:PHE:HB3	1.62	0.64
4:F:3810:VAL:HG11	4:F:3815:LEU:HD13	1.79	0.64
5:G:278:GLN:NE2	6:H:428:GLU:O	2.30	0.64
4:A:199:ALA:HA	5:B:314:SER:HB3	1.78	0.64
4:A:792:ILE:O	4:A:796:LEU:N	2.22	0.64
4:A:847:SER:O	4:A:851:ILE:N	2.28	0.64
4:A:2524:PHE:O	4:A:2530:ARG:NE	2.30	0.64
4:A:2548:PRO:HB3	4:A:2846:THR:HB	1.77	0.64
4:S:345:PHE:HE1	4:S:366:TYR:HB3	1.62	0.64
4:S:1611:GLN:HE21	4:S:1614:GLN:HE21	1.43	0.64
4:S:2347:LYS:O	4:S:2351:GLN:N	2.29	0.64
5:T:488:ARG:HH21	5:T:503:ALA:HB3	1.63	0.64
6:U:42:VAL:HB	6:U:94:ILE:HD12	1.77	0.64
2:M:826:ILE:HD11	2:M:871:ARG:HG2	1.78	0.64
2:P:654:LYS:NZ	2:P:683:ALA:O	2.25	0.64
4:F:893:SER:HA	4:F:906:PHE:HA	1.80	0.64
4:F:1092:GLU:OE2	4:F:1095:LEU:N	2.29	0.64
4:F:1136:ARG:HG2	4:F:1140:LYS:NZ	2.13	0.64
4:F:1579:VAL:HA	4:F:1582:LEU:HD12	1.78	0.64
4:F:1593:VAL:O	4:F:1597:LEU:HG	1.97	0.64
4:F:2987:THR:HG23	4:F:2990:GLU:H	1.62	0.64
4:F:3603:LYS:HZ2	4:F:3646:LYS:HA	1.63	0.64
6:H:464:ALA:HA	6:H:476:LEU:HB2	1.80	0.64
6:H:532:LYS:O	6:H:536:LEU:HB2	1.96	0.64
4:A:1840:PHE:HZ	4:A:1877:LEU:HD23	1.61	0.64
4:S:1080:LEU:HD21	4:S:1119:LYS:HB3	1.79	0.64
4:S:2534:ASN:HB3	4:S:2537:ASP:HB2	1.80	0.64
4:S:2924:VAL:HG11	4:S:2989:ALA:HA	1.78	0.64
4:S:3189:PHE:O	4:S:3193:ILE:HG12	1.97	0.64
7:V:21:DA:OP2	8:W:38:DG:N1	2.27	0.64
4:F:3717:VAL:HA	4:F:3743:HIS:CE1	2.33	0.64
4:A:3256:MET:SD	4:A:3283:LEU:HB2	2.36	0.64
5:B:264:ASN:ND2	5:B:266:ASP:OD1	2.30	0.64
4:S:1084:ASN:O	4:S:1087:ARG:NH1	2.30	0.64
4:S:2191:ALA:HB3	4:S:2728:LEU:HD13	1.78	0.64
4:S:3410:ILE:HD11	4:S:3458:SER:HB2	1.79	0.64
4:S:3917:ILE:HG21	4:S:4051:LEU:HD13	1.78	0.64
5:T:476:ASP:HB3	6:U:430:LEU:HD22	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:18:HIS:HA	1:L:38:ASP:HA	1.79	0.64
1:N:192:ARG:NH2	2:P:768:ASP:OD1	2.30	0.64
2:P:694:GLY:O	2:P:718:HIS:NE2	2.30	0.64
4:F:1015:ASP:OD1	4:F:1016:GLY:N	2.31	0.64
5:G:289:TYR:HD1	5:G:292:THR:H	1.45	0.64
5:G:474:ARG:NE	5:G:476:ASP:OD1	2.30	0.64
4:A:1095:LEU:HB3	4:A:1099:PHE:CE2	2.33	0.64
4:S:992:ILE:HG21	4:S:1035:GLU:HG3	1.78	0.64
4:S:3819:THR:HG22	4:S:3889:ARG:HB2	1.78	0.64
4:S:3982:SER:O	4:S:3986:HIS:ND1	2.27	0.64
2:P:741:ARG:NH1	2:P:742:PHE:HB3	2.13	0.64
2:P:813:PHE:H	2:P:848:HIS:HB3	1.62	0.64
4:F:382:ASP:HA	4:F:385:TYR:HB3	1.79	0.64
4:F:1833:LEU:HA	4:F:1836:LEU:HB3	1.79	0.64
4:F:2233:HIS:HB2	4:F:2731:ARG:HE	1.60	0.64
4:F:2233:HIS:CG	4:F:2731:ARG:HG3	2.33	0.64
4:F:3299:THR:OG1	4:F:3303:THR:N	2.30	0.64
5:G:322:TYR:CZ	6:H:274:LYS:HB3	2.33	0.64
4:A:3152:SER:OG	4:A:3197:LEU:N	2.31	0.64
4:A:3723:ASP:N	4:A:3739:ILE:O	2.26	0.64
4:A:3953:LEU:HB2	4:A:4068:HIS:HB3	1.80	0.64
6:C:448:GLU:HA	6:C:451:LEU:HG	1.79	0.64
4:S:528:VAL:O	4:S:532:ARG:HB2	1.98	0.64
1:K:21:GLN:HE22	1:K:126:LEU:HA	1.63	0.64
2:M:821:ASP:HB2	2:M:875:PHE:HZ	1.63	0.64
1:O:61:MET:HB2	1:O:65:LYS:HD2	1.77	0.64
4:F:1476:HIS:H	4:F:1524:LEU:HD21	1.62	0.64
4:F:3324:ARG:HH22	4:F:3409:VAL:HG22	1.63	0.64
6:H:411:HIS:HB2	6:H:420:VAL:HG13	1.80	0.64
4:A:3944:HIS:ND1	4:A:3948:SER:OG	2.23	0.64
5:B:278:GLN:OE1	6:C:431:ARG:NH2	2.31	0.64
5:B:452:ILE:HG21	6:C:374:ALA:HB1	1.80	0.64
6:C:30:PRO:HB3	6:C:166:PRO:HB3	1.80	0.64
4:S:793:LEU:HA	4:S:796:LEU:HB2	1.78	0.64
4:S:2252:PRO:O	4:S:2291:GLN:NE2	2.31	0.64
1:O:33:VAL:HA	1:O:46:THR:HA	1.79	0.64
4:F:78:PHE:HB3	4:F:82:ARG:HH21	1.63	0.64
4:F:1357:LYS:HG3	4:F:1361:LYS:HZ3	1.63	0.64
4:F:2936:TYR:HA	4:F:2939:LEU:HD12	1.80	0.64
8:J:13:DA:N7	8:J:14:DT:N3	2.46	0.64
4:A:89:LEU:O	4:A:133:LYS:NZ	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:719:LYS:O	4:A:720:GLN:NE2	2.29	0.64
4:A:1817:GLN:HE21	4:A:1869:LYS:HD3	1.61	0.64
4:S:1156:GLY:O	4:S:1171:TRP:NE1	2.31	0.64
4:S:3692:VAL:HG11	4:S:3720:ALA:HA	1.80	0.64
3:Q:146:LEU:HD11	3:Q:214:LEU:HD21	1.79	0.64
3:R:79:LEU:HB2	3:R:85:LYS:HB3	1.79	0.64
4:F:108:LYS:NZ	4:F:145:ASP:O	2.31	0.64
4:F:185:HIS:HA	4:F:189:MET:HE3	1.80	0.64
4:F:1107:TYR:HD2	4:F:1134:LEU:HD11	1.62	0.64
4:F:3292:GLY:HA2	4:F:3295:GLU:HB3	1.79	0.64
4:F:3614:TYR:HA	4:F:3618:GLY:HA3	1.80	0.64
4:F:3644:PHE:HZ	4:F:3659:PHE:HB3	1.63	0.64
4:A:4004:VAL:HA	4:A:4007:LYS:HB2	1.79	0.64
5:B:512:GLU:O	5:B:516:LYS:NZ	2.30	0.64
4:S:3324:ARG:HH21	4:S:3389:VAL:HA	1.61	0.64
4:S:3575:LEU:HD23	4:S:3578:LEU:HD12	1.79	0.64
2:P:823:TYR:O	2:P:871:ARG:NH1	2.31	0.63
4:F:1531:LEU:O	4:F:1534:ASN:ND2	2.31	0.63
4:F:3424:LEU:O	4:F:3428:GLU:N	2.29	0.63
4:F:3765:GLU:HG3	4:F:3793:VAL:HG13	1.79	0.63
4:F:3837:CYS:HB2	4:F:3874:ARG:HD2	1.80	0.63
5:G:458:GLN:HA	5:G:461:LYS:HE3	1.80	0.63
4:A:1766:LEU:O	4:A:1822:ARG:NH1	2.31	0.63
4:A:2887:PRO:HB2	4:A:3895:GLU:HB2	1.80	0.63
4:A:3717:VAL:HB	4:A:3748:HIS:NE2	2.13	0.63
5:B:476:ASP:HB2	6:C:427:MET:HA	1.80	0.63
4:S:43:VAL:HG12	4:S:831:LEU:HB2	1.80	0.63
5:T:360:HIS:HD2	6:U:363:LYS:HD2	1.61	0.63
5:T:407:PRO:HB2	6:U:485:PRO:HB2	1.79	0.63
5:T:440:ALA:O	5:T:443:LYS:NZ	2.29	0.63
5:T:480:ASN:HB3	5:T:483:LEU:HB2	1.79	0.63
5:T:480:ASN:HD21	6:U:402:ASN:HB2	1.62	0.63
6:U:280:ASP:HB3	6:U:283:THR:HG22	1.79	0.63
6:U:357:MET:HG2	6:U:431:ARG:HH22	1.62	0.63
4:F:2420:PHE:O	4:F:2424:MET:HG3	1.97	0.63
4:F:3233:SER:HA	4:F:3269:ARG:HH22	1.61	0.63
4:F:3626:GLY:HA2	4:F:3682:GLU:HB2	1.80	0.63
4:F:4086:ASP:HA	4:F:4089:ILE:HG12	1.79	0.63
5:B:369:TYR:CE2	5:B:429:PRO:HB2	2.33	0.63
6:C:161:LEU:N	6:C:216:GLU:OE2	2.31	0.63
4:S:1765:VAL:O	4:S:1772:HIS:NE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3110:PHE:HD2	4:S:3135:LEU:HD11	1.63	0.63
6:U:270:GLU:HB3	6:U:487:PHE:HE2	1.63	0.63
4:F:1136:ARG:HG2	4:F:1140:LYS:HZ3	1.62	0.63
4:F:3145:ILE:H	4:F:3147:LYS:HZ2	1.45	0.63
6:H:653:GLN:OE1	6:H:653:GLN:N	2.30	0.63
4:A:1369:MET:HG3	4:A:1418:HIS:CE1	2.33	0.63
4:A:1726:SER:OG	4:A:1727:ARG:NH1	2.30	0.63
4:A:1734:PRO:HA	4:A:1737:ASN:HD22	1.62	0.63
4:A:3469:LEU:HD13	4:A:3501:HIS:HB3	1.79	0.63
4:A:3894:PRO:O	4:A:3895:GLU:HG3	1.98	0.63
6:C:446:PRO:HB2	6:C:450:GLN:OE1	1.98	0.63
4:S:733:LEU:HD12	4:S:751:ALA:HB2	1.79	0.63
4:S:772:ALA:HB1	4:S:776:TRP:HZ3	1.63	0.63
4:S:1050:GLU:HA	4:S:1055:ASN:HD22	1.64	0.63
4:S:2528:GLU:HG2	4:S:2533:SER:H	1.63	0.63
3:R:18:LEU:HD13	3:R:22:SER:HA	1.79	0.63
4:F:1372:LEU:O	4:F:1376:LEU:HG	1.99	0.63
4:F:1375:THR:HB	4:F:1382:ILE:HG23	1.80	0.63
4:F:3247:ARG:HD2	4:F:3282:ARG:HB3	1.80	0.63
6:H:115:MET:HB2	6:H:159:ILE:HG13	1.81	0.63
4:A:1527:ARG:NH1	4:A:1530:SER:OG	2.32	0.63
4:A:3901:ARG:NH2	4:A:3970:LEU:O	2.31	0.63
4:S:1101:PHE:HB2	4:S:1163:LEU:HD13	1.80	0.63
4:S:2531:LEU:HB3	4:S:2538:ARG:HG2	1.80	0.63
4:S:4006:VAL:HG13	4:S:4040:PRO:HD3	1.80	0.63
6:U:228:SER:HA	6:U:231:LEU:HD12	1.81	0.63
1:N:19:PHE:N	1:N:37:THR:O	2.25	0.63
2:P:668:SER:OG	2:P:704:SER:N	2.30	0.63
2:P:888:ILE:HB	2:P:910:LEU:HA	1.80	0.63
4:F:1310:GLU:HG3	4:F:1312:CYS:H	1.64	0.63
4:F:2956:ALA:HB2	4:F:2971:GLN:HB2	1.80	0.63
6:H:167:PHE:HB3	6:H:192:PHE:HB3	1.81	0.63
4:A:3087:SER:HB2	4:A:3138:ILE:HD13	1.81	0.63
4:S:163:LYS:HB2	5:T:302:THR:HG22	1.81	0.63
4:S:200:PHE:HZ	4:S:227:LEU:HD22	1.61	0.63
4:S:1716:GLN:HG3	4:S:1717:LEU:HD12	1.80	0.63
6:U:659:LEU:HG	6:U:662:LEU:HD12	1.81	0.63
2:M:800:GLU:HA	2:M:805:TRP:HB2	1.81	0.63
1:O:28:LEU:O	1:O:71:ARG:NH1	2.32	0.63
3:Q:13:TRP:HA	3:Q:26:LYS:HA	1.79	0.63
4:F:1675:TYR:HA	4:F:1678:LEU:HD12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2254:ARG:HH21	4:F:2292:CYS:HB3	1.62	0.63
4:A:887:ASP:OD2	4:A:891:ARG:NH2	2.31	0.63
4:A:1857:LYS:H	4:A:1863:PHE:HB2	1.64	0.63
4:A:1949:ILE:HG12	4:A:2100:LEU:HD22	1.80	0.63
4:A:2371:PHE:HD2	4:A:2374:LEU:HG	1.64	0.63
4:S:198:ARG:NH1	5:T:314:SER:OG	2.31	0.63
4:S:3718:ARG:O	4:S:3743:HIS:N	2.30	0.63
4:F:2452:ARG:HD2	4:F:2494:ASP:HB3	1.81	0.63
6:H:402:ASN:O	6:H:404:GLN:NE2	2.30	0.63
6:H:644:GLU:OE1	6:H:648:LYS:NZ	2.31	0.63
4:A:1346:THR:HG21	4:A:1401:ASN:HB3	1.81	0.63
4:A:3335:ARG:HB2	4:A:3422:GLN:NE2	2.14	0.63
5:B:181:ALA:O	5:B:185:ARG:NE	2.29	0.63
4:S:2151:ILE:HD11	4:S:2189:ILE:HG22	1.80	0.63
4:S:2294:ILE:HD12	4:S:2299:TYR:HE2	1.63	0.63
4:S:3327:ASN:O	4:S:3331:GLY:N	2.30	0.63
5:T:514:MET:SD	6:U:253:ILE:HG23	2.39	0.63
6:U:132:ILE:HG12	6:U:159:ILE:HG22	1.80	0.63
1:N:148:ASN:ND2	1:O:147:GLU:OE1	2.28	0.63
2:P:710:LYS:HA	2:P:713:ILE:HD12	1.81	0.63
3:Q:9:LEU:HD21	3:Q:137:ARG:HH12	1.63	0.63
4:F:2335:ASN:OD1	4:F:2336:ILE:N	2.31	0.63
5:G:132:GLN:OE1	5:G:137:HIS:ND1	2.28	0.63
5:G:144:SER:O	5:G:189:LYS:NZ	2.31	0.63
6:H:234:LEU:HB2	6:H:237:PHE:HB3	1.81	0.63
6:H:292:GLU:OE1	6:H:292:GLU:N	2.29	0.63
6:H:463:LEU:HD21	6:H:519:PRO:HG3	1.81	0.63
4:A:2826:LEU:O	4:A:2830:ASN:ND2	2.31	0.63
4:A:2848:PHE:HB2	4:A:3077:ILE:HD11	1.79	0.63
6:C:299:ASP:HB2	6:C:301:ASP:HA	1.80	0.63
6:C:400:ARG:HH22	10:E:33:DA:H3'	1.64	0.63
4:S:207:GLN:NE2	4:S:215:PRO:O	2.32	0.63
4:S:1000:LYS:HE2	4:S:1004:GLN:HE22	1.64	0.63
4:S:1101:PHE:HD2	4:S:1163:LEU:HB3	1.64	0.63
6:U:143:SER:HB3	6:U:146:GLN:HG3	1.81	0.63
6:U:645:GLU:HA	6:U:648:LYS:HD3	1.81	0.63
2:M:879:ARG:HE	2:M:885:LYS:HB3	1.64	0.63
1:N:63:LYS:HD2	3:Q:111:GLU:HB2	1.81	0.63
4:F:1000:LYS:HA	4:F:1004:GLN:HE21	1.64	0.63
4:F:1375:THR:HA	4:F:1381:SER:HB2	1.80	0.63
4:A:1766:LEU:HA	4:A:1773:VAL:HG21	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:34:GLY:H	5:B:35:ARG:HH11	1.46	0.63
4:S:1827:LEU:O	4:S:1831:CYS:N	2.31	0.63
6:U:45:GLN:HA	6:U:236:VAL:HB	1.81	0.63
6:U:272:VAL:HG22	6:U:275:THR:HA	1.79	0.63
3:X:106:LEU:HB3	3:X:108:VAL:HG23	1.79	0.63
3:Y:11:GLN:HE21	3:Y:28:PHE:HD1	1.46	0.63
3:Q:80:LEU:O	3:Q:85:LYS:N	2.30	0.62
4:F:23:ASP:OD2	4:F:71:LYS:NZ	2.32	0.62
4:F:406:ARG:O	4:F:409:GLN:NE2	2.29	0.62
4:F:826:PHE:HD1	4:F:836:LYS:HE2	1.63	0.62
5:G:126:GLN:O	5:G:130:ARG:HG2	1.99	0.62
5:G:317:LYS:NZ	5:G:330:GLU:OE1	2.31	0.62
5:G:329:LEU:HA	6:H:497:ARG:HH21	1.64	0.62
5:G:350:PHE:HB3	5:G:394:VAL:HG12	1.81	0.62
4:A:172:GLU:HB2	4:A:219:VAL:HB	1.81	0.62
4:A:878:GLU:HB3	4:A:3933:GLU:HB3	1.81	0.62
4:A:1400:VAL:HA	4:A:1403:MET:HG2	1.81	0.62
6:C:250:ARG:O	6:C:340:PHE:N	2.27	0.62
4:S:15:LEU:HD21	4:S:41:GLU:HG3	1.81	0.62
4:S:2328:ARG:HA	4:S:2333:ARG:HH21	1.63	0.62
5:T:166:ILE:HB	5:T:200:LEU:HA	1.81	0.62
5:T:396:ALA:HB3	5:T:413:LEU:HB2	1.81	0.62
4:F:1055:ASN:N	4:F:1058:SER:OG	2.21	0.62
4:F:1104:LEU:HD22	4:F:1134:LEU:HD22	1.81	0.62
6:H:70:GLY:HA3	6:H:74:TYR:HD2	1.63	0.62
4:A:995:PHE:HB3	4:A:1036:PHE:HE1	1.64	0.62
4:A:1212:LEU:HA	4:A:1215:GLU:HG2	1.81	0.62
4:A:1829:TRP:HA	4:A:1883:ARG:HH12	1.64	0.62
4:A:1979:GLU:N	4:A:2141:ASN:OD1	2.30	0.62
4:A:3917:ILE:HG12	4:A:4051:LEU:HD21	1.80	0.62
5:B:444:ARG:NH2	9:D:25:DA:OP1	2.32	0.62
4:S:1597:LEU:O	4:S:1601:LEU:HG	1.98	0.62
2:P:691:GLN:NE2	5:G:291:GLU:O	2.24	0.62
3:Q:154:ALA:O	3:Q:158:HIS:ND1	2.32	0.62
4:F:172:GLU:O	4:F:173:LYS:NZ	2.26	0.62
4:F:1756:PRO:HG3	4:F:1797:LEU:HD12	1.81	0.62
4:F:2227:LYS:HB2	4:F:2230:VAL:HG22	1.80	0.62
4:F:2525:TRP:HB2	4:F:2561:PHE:CE2	2.33	0.62
4:F:3472:ILE:HG12	4:F:3479:THR:HB	1.81	0.62
6:H:666:VAL:HG22	6:H:675:TRP:HB3	1.81	0.62
4:A:110:THR:O	4:A:114:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:529:ASP:O	4:A:533:HIS:ND1	2.32	0.62
4:A:3338:ALA:HB1	4:A:3378:TYR:HE1	1.63	0.62
4:A:3531:TYR:HE1	4:A:3801:GLY:HA2	1.63	0.62
4:A:3772:ASN:O	4:A:3776:ALA:HB3	1.99	0.62
4:S:1048:GLN:HA	4:S:1051:LYS:HZ2	1.64	0.62
4:S:3235:LYS:O	4:S:3238:MET:HB2	1.99	0.62
4:S:3681:LYS:HE2	4:S:3724:GLU:HG2	1.81	0.62
4:S:3953:LEU:H	4:S:4068:HIS:HA	1.64	0.62
5:T:39:ILE:HG13	5:T:150:CYS:SG	2.39	0.62
5:T:288:LEU:HD21	6:U:320:ILE:HD12	1.82	0.62
6:U:201:GLN:HE21	6:U:205:LEU:HD13	1.63	0.62
8:W:19:DA:H2"	8:W:20:DT:C5	2.34	0.62
1:O:99:LYS:HG3	1:O:108:LEU:HD22	1.81	0.62
3:Q:179:LEU:HB2	3:R:159:MET:HG2	1.79	0.62
4:F:2325:LEU:O	4:F:2329:TYR:N	2.32	0.62
6:H:77:ILE:HD11	6:H:110:ALA:HA	1.81	0.62
4:A:444:ASP:O	4:A:520:LYS:NZ	2.32	0.62
4:A:3281:CYS:HA	4:A:3301:LEU:HD22	1.81	0.62
4:A:3640:PHE:O	4:A:3645:GLY:N	2.32	0.62
5:B:392:LYS:HB3	6:C:458:ILE:HD13	1.81	0.62
4:S:826:PHE:HA	4:S:832:LYS:HD2	1.81	0.62
4:S:985:GLU:HA	4:S:988:VAL:HG22	1.81	0.62
4:S:3151:LEU:HB2	4:S:3197:LEU:H	1.63	0.62
4:S:3154:GLN:HA	4:S:3227:ILE:HD11	1.80	0.62
6:U:643:ARG:HD3	6:U:659:LEU:HD22	1.80	0.62
1:K:53:SER:HA	3:R:115:LEU:HD12	1.81	0.62
1:O:118:ASN:HB3	1:O:121:GLU:HB2	1.82	0.62
4:F:2357:GLU:HA	4:F:2360:PHE:HB3	1.81	0.62
6:H:496:HIS:CD2	6:H:506:PRO:HD3	2.35	0.62
4:A:391:ARG:NH2	4:A:1732:GLY:O	2.32	0.62
4:A:3083:SER:HA	4:A:3086:LEU:HD12	1.82	0.62
4:A:3088:LEU:HG	4:A:3138:ILE:HD11	1.81	0.62
4:S:117:LYS:HG3	4:S:118:ASP:H	1.65	0.62
4:S:269:SER:HB2	4:S:273:ARG:HH12	1.65	0.62
4:S:441:MET:SD	4:S:489:ARG:NH2	2.72	0.62
6:U:46:VAL:HG21	6:U:88:PHE:CE1	2.35	0.62
6:U:49:GLU:HB2	6:U:238:LYS:HG2	1.81	0.62
4:F:1788:ARG:O	4:F:1794:GLN:NE2	2.32	0.62
4:F:2158:ARG:HE	4:F:2199:LEU:HG	1.65	0.62
4:F:2313:LYS:HA	4:F:2316:TYR:CZ	2.34	0.62
5:G:166:ILE:O	5:G:201:ASP:N	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:262:ALA:H	6:H:368:ARG:HH11	1.48	0.62
4:A:1070:PRO:HB3	4:A:1113:LEU:HB3	1.81	0.62
4:A:1178:ARG:O	4:A:1184:ARG:NH1	2.31	0.62
4:A:1215:GLU:O	4:A:1219:PHE:HB3	1.99	0.62
4:A:3335:ARG:NH1	4:A:3415:THR:O	2.32	0.62
4:S:134:LEU:HD13	4:S:177:LEU:HD13	1.82	0.62
4:S:431:TYR:O	4:S:435:LEU:N	2.31	0.62
4:S:1108:MET:HE2	4:S:1187:SER:HB3	1.80	0.62
4:S:1867:ILE:HA	4:S:1870:LYS:HB2	1.81	0.62
4:S:3583:LEU:HD23	4:S:3586:LYS:HD2	1.81	0.62
5:T:263:LEU:HB2	5:T:269:ILE:HD13	1.82	0.62
5:T:357:LYS:H	5:T:438:PRO:HG2	1.65	0.62
6:U:44:ARG:HH21	6:U:233:LYS:H	1.46	0.62
1:K:89:SER:HG	1:K:92:SER:HG	1.46	0.62
1:L:132:ASP:O	1:L:135:ALA:N	2.32	0.62
1:L:150:ARG:NH2	1:L:154:ASP:OD2	2.33	0.62
3:R:96:SER:OG	3:R:107:ARG:NH1	2.33	0.62
4:F:892:LEU:HG	4:F:907:LEU:HB2	1.82	0.62
4:F:1491:ILE:HD11	4:F:1555:HIS:HE1	1.63	0.62
4:F:3528:ALA:HB2	4:F:3705:TYR:HB2	1.81	0.62
4:A:2161:ALA:HB1	4:A:2200:ALA:HB2	1.81	0.62
4:A:3171:ALA:HB2	4:A:3245:SER:HB2	1.81	0.62
5:B:33:SER:HB2	5:B:160:LYS:HD3	1.81	0.62
6:C:407:VAL:HG12	6:C:422:VAL:H	1.64	0.62
4:S:639:ALA:O	4:S:643:GLU:N	2.32	0.62
4:S:937:MET:O	4:S:941:MET:HG3	1.99	0.62
4:S:1226:GLY:HA2	4:S:1259:LEU:HG	1.80	0.62
4:S:1226:GLY:HA3	4:S:1263:ALA:HB2	1.81	0.62
4:S:2461:PHE:HB3	4:S:2469:CYS:HB3	1.81	0.62
4:S:3700:GLU:HG3	4:S:3718:ARG:HA	1.81	0.62
5:T:481:PRO:HA	5:T:484:GLN:HG3	1.82	0.62
1:N:194:LEU:HA	1:N:197:LYS:HD2	1.82	0.62
4:F:193:ALA:HB1	4:F:231:LEU:HD21	1.81	0.62
4:F:528:VAL:HG11	4:F:632:GLU:HB2	1.81	0.62
4:F:2328:ARG:NE	4:F:2370:SER:O	2.30	0.62
5:G:166:ILE:HB	5:G:200:LEU:HA	1.81	0.62
5:G:289:TYR:N	5:G:294:GLU:O	2.32	0.62
5:G:533:ASP:HA	6:H:250:ARG:HH22	1.63	0.62
4:A:72:SER:HB3	4:A:114:VAL:HA	1.82	0.62
6:C:340:PHE:HA	6:C:395:TYR:HD1	1.64	0.62
4:S:2253:TYR:HB2	4:S:2291:GLN:HE21	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2786:LYS:O	4:S:2790:LEU:N	2.33	0.62
4:S:3107:ILE:HG12	4:S:3135:LEU:HB3	1.82	0.62
4:S:3120:LEU:HD11	4:S:3895:GLU:HB2	1.81	0.62
5:T:412:ALA:H	5:T:437:LEU:HG	1.64	0.62
5:T:451:LYS:HG3	6:U:378:SER:HB2	1.82	0.62
6:U:74:TYR:HB3	6:U:77:ILE:HD13	1.82	0.62
6:U:450:GLN:O	6:U:454:VAL:N	2.27	0.62
3:Q:45:TRP:HB3	3:Q:123:CYS:HB3	1.80	0.62
3:R:75:HIS:HE1	3:R:86:ASP:HA	1.65	0.62
4:F:58:VAL:HG11	4:F:3098:ARG:HD2	1.82	0.62
6:H:74:TYR:CD1	6:H:109:ASP:HB3	2.34	0.62
4:A:1099:PHE:O	4:A:1103:ALA:N	2.32	0.62
4:A:2320:ALA:HB1	4:A:2367:VAL:HB	1.82	0.62
4:A:3232:ARG:HH21	4:A:3265:GLU:HA	1.65	0.62
4:A:3288:SER:OG	4:A:3289:ARG:NH1	2.32	0.62
4:A:3760:GLN:NE2	4:A:4015:ASN:O	2.33	0.62
4:A:4041:ARG:HA	4:A:4044:ILE:HG22	1.82	0.62
4:S:490:ILE:HG21	4:S:524:TYR:HD1	1.64	0.62
4:S:2132:LYS:HD3	4:S:2135:ASN:HD21	1.65	0.62
4:S:3226:ASP:N	4:S:3229:SER:HG	1.98	0.62
1:L:137:ASN:O	1:L:141:ASN:HB2	1.98	0.62
1:O:97:PHE:O	1:O:108:LEU:N	2.32	0.62
4:F:997:ASN:HB3	4:F:1000:LYS:H	1.65	0.62
4:F:1795:VAL:HA	4:F:1798:LEU:HD12	1.82	0.62
6:H:686:ILE:HD11	6:H:706:ALA:HA	1.82	0.62
4:A:3298:LEU:HB3	4:A:3333:THR:HG23	1.80	0.62
5:B:369:TYR:CE1	6:C:435:PHE:HB2	2.35	0.62
4:S:569:VAL:HG11	4:S:645:TRP:CD1	2.35	0.62
4:S:2532:PRO:O	4:S:2538:ARG:HG3	2.00	0.62
4:S:3190:LEU:HB3	4:S:3231:ILE:HB	1.82	0.62
4:S:3874:ARG:NH1	4:S:4117:LEU:O	2.20	0.62
5:T:287:LYS:HD3	6:U:310:ILE:HD11	1.81	0.62
6:U:9:ALA:O	6:U:131:HIS:N	2.33	0.62
6:U:597:ASN:HD22	6:U:615:GLN:HE22	1.45	0.62
1:K:52:ILE:HG23	1:K:66:TYR:HE2	1.65	0.61
4:F:289:ASN:HB3	4:F:292:SER:OG	2.00	0.61
4:F:1190:LEU:HD12	4:F:1193:LYS:HD3	1.79	0.61
4:F:2532:PRO:O	4:F:2538:ARG:HG3	1.99	0.61
5:G:173:ASP:HB2	5:G:214:SER:N	2.14	0.61
5:G:193:LEU:O	5:G:198:ILE:N	2.33	0.61
5:G:348:MET:HB2	5:G:397:LEU:HG	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2582:SER:HB2	4:A:2781:PRO:HD2	1.80	0.61
4:A:3232:ARG:NH1	4:A:3268:THR:OG1	2.32	0.61
4:A:3239:LYS:HE2	4:A:3262:LEU:HD13	1.80	0.61
4:A:3805:TRP:HZ3	4:A:3940:ILE:HG12	1.65	0.61
4:S:1283:GLY:H	4:S:1286:ALA:HB2	1.65	0.61
4:S:2173:ALA:HA	4:S:2215:LEU:HD11	1.81	0.61
5:T:93:ASP:OD1	5:T:101:ASN:N	2.32	0.61
5:T:404:ARG:HG3	7:V:33:DA:N1	2.15	0.61
2:M:785:ASN:ND2	2:M:787:GLN:O	2.33	0.61
1:N:151:LEU:HD13	1:O:152:LEU:HB2	1.80	0.61
4:F:175:TYR:OH	4:F:203:GLU:HB3	2.00	0.61
4:F:896:VAL:HG23	4:F:903:PRO:HG2	1.82	0.61
4:F:2287:PRO:HD2	4:F:2331:MET:HA	1.82	0.61
4:F:2995:GLU:O	4:F:2999:LEU:HG	1.99	0.61
4:A:36:ARG:NH2	4:A:40:GLN:OE1	2.33	0.61
5:B:161:MET:O	5:B:164:LYS:NZ	2.29	0.61
4:S:123:CYS:HB3	4:S:171:LEU:HD12	1.81	0.61
4:S:2133:LEU:O	4:S:2170:GLN:NE2	2.29	0.61
5:T:32:TYR:O	5:T:252:ARG:NH2	2.33	0.61
3:Y:35:ALA:HA	3:Y:48:GLN:HA	1.82	0.61
2:M:798:ASP:OD1	2:M:815:ARG:NH1	2.33	0.61
3:Q:156:LEU:HG	3:Q:160:LYS:HE2	1.81	0.61
4:F:3512:VAL:O	4:F:3516:HIS:ND1	2.23	0.61
5:G:48:MET:O	5:G:60:PHE:N	2.33	0.61
4:A:1373:VAL:HG13	4:A:1376:LEU:HB3	1.81	0.61
4:A:2386:LEU:HD23	4:A:2418:LYS:HG3	1.82	0.61
4:A:3246:ALA:O	4:A:3251:ASN:N	2.33	0.61
4:S:1802:TYR:O	4:S:1806:ARG:NH1	2.33	0.61
4:S:4055:ASN:HB2	4:S:4096:SER:H	1.65	0.61
5:T:249:LYS:HD2	6:U:427:MET:HB2	1.82	0.61
2:M:865:ILE:HG13	2:M:875:PHE:HE2	1.65	0.61
1:N:120:ALA:HB2	1:O:40:HIS:HB2	1.82	0.61
3:Q:147:GLN:HG2	3:R:213:ASN:HB3	1.80	0.61
4:F:1668:PHE:O	4:F:1672:PHE:HB2	2.01	0.61
4:F:2134:GLY:O	4:F:2170:GLN:NE2	2.32	0.61
4:F:2261:SER:O	4:F:2270:ASN:ND2	2.31	0.61
4:F:3295:GLU:HA	4:F:3298:LEU:HD12	1.82	0.61
5:G:275:ASN:O	6:H:431:ARG:NH1	2.33	0.61
6:H:521:GLU:N	6:H:521:GLU:OE1	2.34	0.61
4:A:237:SER:HA	4:A:281:GLN:HA	1.83	0.61
4:A:1860:GLU:HG2	4:A:1862:THR:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1890:HIS:HB3	4:A:1954:CYS:HB3	1.81	0.61
4:S:924:ARG:HH21	4:S:979:VAL:HB	1.65	0.61
4:S:993:HIS:CD2	4:S:2779:ASP:HB3	2.35	0.61
4:S:1756:PRO:HG3	4:S:1797:LEU:HD12	1.82	0.61
4:S:1766:LEU:HA	4:S:1773:VAL:HG21	1.82	0.61
4:S:2477:LEU:HD12	4:S:2502:ALA:HA	1.81	0.61
4:S:3384:HIS:O	4:S:3388:ALA:N	2.33	0.61
5:T:328:ILE:HB	6:U:502:ARG:HH22	1.64	0.61
2:M:730:PHE:O	2:M:733:LYS:NZ	2.29	0.61
1:N:57:ASP:HA	3:Q:112:LEU:HD22	1.82	0.61
1:O:22:VAL:HA	1:O:34:ILE:HG13	1.82	0.61
2:P:876:LYS:HD3	2:P:879:ARG:HD3	1.82	0.61
4:F:82:ARG:HA	4:F:85:ILE:HB	1.82	0.61
4:F:1092:GLU:HG3	4:F:1096:VAL:HG13	1.81	0.61
6:H:218:GLU:HA	6:H:221:LEU:HB2	1.83	0.61
6:H:234:LEU:HD13	6:H:237:PHE:HD2	1.65	0.61
5:B:362:LEU:HD11	6:C:268:LEU:HD21	1.81	0.61
4:S:168:ASP:HB3	4:S:170:VAL:HG22	1.81	0.61
4:S:196:LEU:HD13	4:S:227:LEU:HD11	1.83	0.61
5:T:490:LEU:HD21	6:U:314:PHE:HB2	1.82	0.61
6:U:447:THR:O	6:U:451:LEU:N	2.22	0.61
6:U:616:LEU:HD13	6:U:639:ILE:HG22	1.82	0.61
1:K:59:MET:HB2	1:K:61:MET:HE2	1.81	0.61
1:K:154:ASP:O	1:K:158:VAL:HG23	2.01	0.61
2:M:758:TYR:HA	2:M:764:SER:HA	1.81	0.61
2:P:692:ASN:ND2	5:G:290:ARG:O	2.32	0.61
3:Q:41:LEU:HD22	3:R:137:ARG:HA	1.81	0.61
3:Q:106:LEU:HD22	3:Q:121:PHE:HB2	1.83	0.61
4:F:264:ARG:N	7:I:41:DT:OP1	2.33	0.61
5:G:403:ARG:NH1	7:I:32:DA:OP1	2.34	0.61
6:H:700:GLU:HA	6:H:703:LYS:HE2	1.82	0.61
8:J:33:DA:H3'	8:J:34:DT:N3	2.15	0.61
4:A:407:VAL:HG12	4:A:441:MET:HB2	1.81	0.61
4:A:1375:THR:HA	4:A:1379:PRO:HA	1.83	0.61
4:A:2102:LYS:O	4:A:2106:ARG:HG2	2.00	0.61
4:A:3531:TYR:HB3	4:A:3535:ILE:HD12	1.81	0.61
5:B:274:TYR:HB3	5:B:276:LEU:HD22	1.81	0.61
4:S:1181:THR:OG1	4:S:1184:ARG:NH2	2.34	0.61
4:S:3086:LEU:HD21	4:S:3098:ARG:HH21	1.64	0.61
4:S:3490:VAL:HB	4:S:3517:SER:HA	1.83	0.61
5:T:343:PRO:HA	5:T:401:THR:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:18:LEU:HA	3:Y:96:SER:HA	1.81	0.61
1:K:179:ARG:HH22	2:M:808:SER:HB3	1.65	0.61
1:L:121:GLU:OE2	1:L:124:ARG:NH2	2.33	0.61
3:R:85:LYS:HD3	3:R:108:VAL:HG21	1.83	0.61
4:F:2837:LEU:HB3	4:F:2871:LEU:HD13	1.82	0.61
4:F:3261:GLU:HA	4:F:3264:LYS:HE3	1.83	0.61
4:A:82:ARG:HG2	4:A:126:PRO:HB2	1.83	0.61
4:S:2120:ARG:HB3	4:S:2160:TYR:HE1	1.65	0.61
4:S:2797:VAL:HA	4:S:2804:ILE:HD12	1.83	0.61
4:S:3300:VAL:HG23	4:S:3356:ALA:HB1	1.81	0.61
1:K:40:HIS:HB2	1:L:119:PRO:HG2	1.82	0.61
1:K:137:ASN:HA	1:L:139:ALA:N	2.10	0.61
4:F:1145:LEU:HB3	4:F:1165:LEU:HB2	1.80	0.61
4:F:1575:LEU:HG	4:F:1618:LEU:HD12	1.82	0.61
6:H:164:PHE:CG	6:H:225:TYR:HB2	2.35	0.61
4:A:415:GLN:HG3	4:A:463:LYS:HD3	1.83	0.61
4:A:1691:GLN:OE1	4:A:1745:LYS:NZ	2.32	0.61
4:A:1817:GLN:NE2	4:A:1869:LYS:HD3	2.16	0.61
5:B:124:GLY:O	5:B:128:GLN:N	2.30	0.61
4:S:1105:VAL:HG11	4:S:1157:PHE:HB2	1.81	0.61
4:S:1294:VAL:HG12	4:S:1365:ASN:HD21	1.65	0.61
4:S:1716:GLN:HA	6:U:630:PRO:HB3	1.83	0.61
4:S:2225:HIS:ND1	4:S:2234:ASN:OD1	2.28	0.61
4:S:3287:ARG:HD3	4:S:3296:GLN:HA	1.81	0.61
4:S:3751:LEU:HD22	4:S:3803:ILE:HG12	1.82	0.61
5:T:48:MET:HG3	5:T:60:PHE:HB2	1.82	0.61
1:N:20:LEU:HD13	1:N:36:LEU:HB2	1.83	0.61
1:N:25:GLU:H	1:N:32:PHE:HB2	1.66	0.61
5:G:169:PHE:HB3	5:G:205:LEU:HD22	1.82	0.61
6:H:508:ILE:HG23	6:H:509:GLN:H	1.64	0.61
6:H:652:GLU:O	6:H:656:ASN:CB	2.48	0.61
7:I:36:DA:H2	8:J:23:DT:H3	1.49	0.61
4:A:1369:MET:HG3	4:A:1418:HIS:ND1	2.16	0.61
4:A:2391:GLY:O	4:A:2431:ARG:NH1	2.28	0.61
4:A:3963:LEU:HB3	4:A:4111:ALA:HB1	1.81	0.61
5:B:74:LYS:HD2	5:B:81:ASP:HB2	1.82	0.61
5:B:330:GLU:HG3	5:B:333:GLU:H	1.66	0.61
4:S:1060:PHE:HE2	4:S:1095:LEU:HB3	1.66	0.61
4:S:1764:GLU:HA	4:S:1767:CYS:HB2	1.82	0.61
4:S:4086:ASP:HA	4:S:4089:ILE:HG12	1.83	0.61
5:T:289:TYR:N	5:T:294:GLU:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:328:GLU:HA	6:U:331:MET:HB3	1.82	0.61
6:U:328:GLU:O	6:U:332:LYS:N	2.32	0.61
6:U:441:SER:O	6:U:445:ALA:N	2.32	0.61
4:F:1456:LYS:HE2	4:F:1516:GLU:HB3	1.81	0.61
4:F:1471:GLN:H	4:F:1476:HIS:CD2	2.19	0.61
4:F:2348:GLN:OE1	4:F:2353:GLN:NE2	2.33	0.61
4:F:3018:SER:HA	4:F:3022:GLU:HB3	1.83	0.61
5:G:469:LEU:HD21	5:G:514:MET:HB2	1.82	0.61
4:A:749:VAL:HG13	4:A:753:GLN:HE22	1.63	0.61
4:A:896:VAL:HB	4:A:903:PRO:HG2	1.83	0.61
4:A:3235:LYS:O	4:A:3239:LYS:HG2	2.00	0.61
4:A:3359:ILE:O	4:A:3363:SER:N	2.31	0.61
4:A:4055:ASN:HD21	4:A:4096:SER:HB3	1.66	0.61
6:C:400:ARG:NH1	10:E:32:DT:O3'	2.34	0.61
4:S:382:ASP:HB2	4:S:428:PRO:HG3	1.81	0.61
4:S:1166:LEU:HA	4:S:1198:LEU:HD22	1.83	0.61
4:S:2205:VAL:HG13	4:S:2208:ASP:H	1.65	0.61
4:S:2850:PHE:HD1	4:S:2855:VAL:HG11	1.66	0.61
4:S:3306:LEU:HD13	4:S:3355:LYS:HZ1	1.65	0.61
4:S:3445:LEU:O	4:S:3448:GLU:HG2	2.01	0.61
4:S:3719:ILE:HA	4:S:3742:GLY:HA2	1.83	0.61
4:S:4054:ALA:HB3	4:S:4059:ILE:HD11	1.83	0.61
6:U:34:ALA:O	6:U:38:ILE:HG12	2.01	0.61
1:N:54:GLN:NE2	1:N:55:GLU:OE2	2.33	0.60
4:F:153:PHE:CE2	4:F:189:MET:HG2	2.37	0.60
4:F:649:PHE:O	4:F:653:LEU:HG	2.01	0.60
4:A:723:ASP:O	4:A:724:GLU:HG2	2.01	0.60
4:A:1493:PRO:HG2	4:A:1539:SER:HB3	1.82	0.60
4:A:3087:SER:HB3	4:A:3138:ILE:HG21	1.83	0.60
6:C:513:TRP:O	6:C:517:ASN:ND2	2.34	0.60
4:S:925:GLN:HA	4:S:2769:VAL:HG22	1.83	0.60
4:S:2264:ASP:HB3	4:S:2309:PHE:HZ	1.65	0.60
4:S:2464:HIS:ND1	4:S:2466:SER:OG	2.33	0.60
4:S:2571:ASP:OD2	4:S:2787:HIS:NE2	2.34	0.60
4:S:3535:ILE:HG12	4:S:3796:MET:HA	1.83	0.60
4:S:3913:ILE:HD11	4:S:3988:LEU:HB2	1.82	0.60
5:T:304:ASN:ND2	5:T:307:THR:OG1	2.34	0.60
5:T:488:ARG:HG3	5:T:502:GLN:HA	1.82	0.60
6:U:165:LEU:HD13	6:U:201:GLN:HE22	1.66	0.60
6:U:508:ILE:O	6:U:509:GLN:HB2	2.00	0.60
1:N:102:LYS:HD2	3:Q:74:CYS:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:655:ILE:HD12	2:P:684:GLU:HB3	1.82	0.60
2:P:660:GLU:HA	2:P:687:GLY:HA2	1.83	0.60
3:R:27:VAL:HB	3:R:36:LEU:HD13	1.82	0.60
4:F:716:VAL:O	4:F:719:LYS:NZ	2.23	0.60
4:F:3444:ALA:HB2	4:F:3478:GLU:HG3	1.84	0.60
4:F:3914:SER:HA	4:F:3917:ILE:HD12	1.83	0.60
4:F:3945:ALA:H	4:F:3948:SER:HG	1.49	0.60
6:H:409:PHE:N	6:H:420:VAL:O	2.34	0.60
6:H:491:PHE:HA	6:H:494:LEU:HD12	1.83	0.60
6:H:636:ILE:HA	6:H:639:ILE:HG12	1.83	0.60
6:H:676:GLU:HG3	6:H:677:ILE:HD12	1.83	0.60
4:A:463:LYS:HA	4:A:544:ILE:HD13	1.82	0.60
4:A:571:SER:HA	4:A:574:LYS:HE3	1.82	0.60
4:A:962:TYR:HB3	4:A:966:PHE:CZ	2.36	0.60
4:A:1284:THR:HG22	4:A:1285:GLU:HG2	1.82	0.60
4:A:1438:GLY:N	4:A:1507:CYS:SG	2.74	0.60
4:A:2342:CYS:HB2	4:A:2374:LEU:HD21	1.82	0.60
5:B:272:GLY:N	5:B:369:TYR:O	2.33	0.60
4:S:304:THR:HG22	4:S:305:ASN:H	1.66	0.60
4:S:2139:PRO:O	4:S:2143:ARG:N	2.22	0.60
4:S:2825:THR:HG22	4:S:2828:GLU:HG2	1.82	0.60
4:S:4012:ASP:HB3	4:S:4067:GLY:HA2	1.82	0.60
5:T:399:ARG:HB2	5:T:408:PRO:HB2	1.83	0.60
1:K:84:TYR:HE1	1:K:99:LYS:HD3	1.66	0.60
2:M:700:VAL:HG23	2:M:718:HIS:HB2	1.83	0.60
2:M:746:MET:O	2:M:751:LYS:NZ	2.33	0.60
1:O:21:GLN:HB3	1:O:35:THR:HB	1.81	0.60
4:F:1058:SER:HA	4:F:1061:LYS:HE2	1.82	0.60
4:F:2197:THR:H	4:F:2722:ARG:NH2	1.99	0.60
4:F:2223:VAL:HG22	4:F:2231:PHE:HE1	1.66	0.60
4:F:2223:VAL:HG21	4:F:2238:ILE:HD11	1.83	0.60
4:F:2414:GLN:OE1	4:F:2414:GLN:N	2.32	0.60
4:F:2526:SER:O	4:F:2538:ARG:NH1	2.25	0.60
4:F:2815:GLY:HA2	4:F:2818:LYS:HZ2	1.66	0.60
4:F:2967:GLU:O	4:F:2971:GLN:HG2	2.02	0.60
4:A:1155:ARG:O	4:A:3691:LYS:NZ	2.32	0.60
4:A:2967:GLU:HA	4:A:2970:LYS:HB2	1.83	0.60
4:A:3465:PHE:HD1	4:A:3468:LEU:HD23	1.65	0.60
4:A:3951:GLN:OE1	4:A:4066:LEU:N	2.34	0.60
4:S:287:LEU:H	4:S:326:MET:HE1	1.66	0.60
4:S:387:GLU:O	4:S:391:ARG:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2522:ARG:NH2	4:S:2564:GLU:OE1	2.34	0.60
4:S:3908:HIS:NE2	4:S:3962:ARG:O	2.30	0.60
5:T:365:SER:H	6:U:357:MET:HG3	1.64	0.60
6:U:45:GLN:HG3	6:U:86:PRO:HB2	1.83	0.60
6:U:261:ILE:HB	6:U:364:VAL:HG11	1.83	0.60
4:F:2521:ILE:HG12	4:F:2525:TRP:CD1	2.37	0.60
4:F:3979:LEU:O	4:F:3983:ILE:HG12	2.01	0.60
4:F:4055:ASN:HD22	4:F:4058:VAL:HG23	1.66	0.60
5:G:164:LYS:HZ2	5:G:198:ILE:HG13	1.67	0.60
6:H:348:SER:N	6:H:388:ASP:O	2.30	0.60
6:H:395:TYR:CZ	6:H:397:TYR:HA	2.36	0.60
6:H:456:ALA:HB3	6:H:532:LYS:NZ	2.15	0.60
7:I:38:DT:H2''	7:I:39:DA:C8	2.37	0.60
4:A:1218:SER:HB3	4:A:1283:GLY:N	2.16	0.60
4:A:2439:ILE:O	4:A:2443:MET:N	2.32	0.60
4:A:3239:LYS:O	4:A:3243:ILE:HG13	2.01	0.60
4:S:1603:GLN:O	4:S:1607:GLU:N	2.33	0.60
4:S:2260:PHE:HB3	4:S:2273:GLY:HA3	1.82	0.60
4:S:3998:LEU:HD13	4:S:4047:ALA:HB1	1.82	0.60
5:T:278:GLN:HG3	8:W:27:DT:H5''	1.82	0.60
4:F:296:VAL:HA	4:F:299:LYS:HG2	1.83	0.60
4:F:1101:PHE:HA	4:F:1168:LEU:HD11	1.83	0.60
4:F:3577:GLN:H	4:F:3683:CYS:HB3	1.66	0.60
4:F:3795:PRO:HA	4:F:3801:GLY:HA2	1.84	0.60
5:G:399:ARG:HA	5:G:410:PHE:HA	1.82	0.60
6:H:296:CYS:HB3	6:H:302:GLU:HB2	1.84	0.60
7:I:25:DA:P	7:I:25:DA:H8	2.24	0.60
7:I:29:DA:H1'	7:I:30:DA:C4	2.36	0.60
8:J:18:DA:H2'	8:J:18:DA:N3	2.16	0.60
4:A:41:GLU:O	4:A:45:SER:N	2.35	0.60
4:A:137:THR:O	4:A:141:SER:N	2.32	0.60
4:A:408:TYR:O	4:A:442:GLN:NE2	2.34	0.60
4:A:1769:GLU:HB2	4:A:1772:HIS:CD2	2.36	0.60
4:A:2873:PRO:HG3	4:A:2922:ARG:HG2	1.83	0.60
4:A:3344:GLU:HB3	4:A:3347:CYS:HB3	1.84	0.60
5:B:474:ARG:HB3	5:B:477:SER:HB3	1.82	0.60
6:C:44:ARG:HB3	6:C:238:LYS:HB3	1.84	0.60
4:S:1357:LYS:HG3	4:S:1361:LYS:NZ	2.17	0.60
4:S:1720:ALA:HA	6:U:634:LYS:HZ2	1.66	0.60
4:S:1769:GLU:H	4:S:1772:HIS:CE1	2.20	0.60
4:S:2188:GLU:HA	4:S:2728:LEU:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3916:TRP:HB2	4:S:3961:PHE:HB3	1.83	0.60
4:S:3952:PHE:N	4:S:4069:GLU:H	1.99	0.60
5:T:39:ILE:HD13	5:T:84:ALA:HB3	1.83	0.60
5:T:360:HIS:CD2	5:T:443:LYS:HA	2.37	0.60
5:T:482:VAL:HG22	6:U:332:LYS:HZ3	1.66	0.60
4:F:24:ARG:HG3	4:F:25:CYS:H	1.67	0.60
4:F:272:LEU:HA	4:F:275:PHE:CD2	2.37	0.60
4:F:2298:GLU:HA	4:F:2301:GLN:HB3	1.82	0.60
4:F:2510:LEU:HG	4:F:2557:LEU:HD13	1.83	0.60
4:F:2749:ALA:O	4:F:2753:ARG:HG2	2.02	0.60
4:F:3581:PRO:HG2	4:F:3632:PHE:HD2	1.65	0.60
4:F:3738:ILE:O	4:F:3750:PHE:N	2.26	0.60
5:G:95:ASN:HB2	5:G:97:VAL:HG12	1.82	0.60
6:H:104:GLN:O	6:H:141:ARG:NH2	2.34	0.60
6:H:296:CYS:HA	6:H:304:GLU:HA	1.82	0.60
7:I:26:DA:H1 ⁷	8:J:32:DT:O2	2.01	0.60
4:A:138:PHE:O	4:A:142:ARG:HG2	2.02	0.60
4:A:2931:ARG:HA	4:A:2936:TYR:HE1	1.67	0.60
4:A:3243:ILE:HG12	4:A:3255:ALA:O	2.02	0.60
5:B:297:LYS:HD3	5:B:299:LYS:HZ1	1.67	0.60
5:B:329:LEU:HD22	6:C:276:TRP:HH2	1.67	0.60
6:C:41:PHE:O	6:C:45:GLN:HG2	1.99	0.60
6:C:251:LEU:HD22	6:C:257:LEU:HD23	1.84	0.60
4:S:490:ILE:HG23	4:S:523:THR:HA	1.83	0.60
4:S:645:TRP:HB3	4:S:649:PHE:HB3	1.83	0.60
4:S:1254:LEU:HD21	4:S:1330:TYR:HA	1.83	0.60
4:S:2158:ARG:HH22	4:S:2722:ARG:HE	1.46	0.60
5:T:261:LEU:HA	5:T:345:LEU:HB2	1.82	0.60
5:T:281:LEU:HD22	8:W:28:DA:H62	1.67	0.60
5:T:351:LYS:HG2	5:T:437:LEU:HD21	1.83	0.60
6:U:107:PHE:HB2	6:U:146:GLN:HB3	1.82	0.60
1:L:173:GLU:OE1	2:M:814:ARG:NH2	2.34	0.60
4:F:1528:LEU:O	4:F:1532:LEU:HB2	2.01	0.60
4:F:3313:SER:HB2	4:F:3316:LEU:HA	1.82	0.60
4:F:3781:CYS:O	4:F:3785:ALA:N	2.34	0.60
6:H:36:LYS:HE3	6:H:227:PHE:HE1	1.66	0.60
6:H:423:GLN:NE2	6:H:424:LEU:O	2.34	0.60
4:A:20:SER:HB3	4:A:66:LEU:HD23	1.82	0.60
4:A:1175:HIS:HA	4:A:1229:CYS:HA	1.82	0.60
4:A:2529:THR:OG1	4:A:2530:ARG:NH1	2.35	0.60
5:B:147:LEU:HB2	5:B:189:LYS:HD2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:297:LEU:N	6:C:303:THR:O	2.34	0.60
4:S:1512:SER:HA	4:S:1515:LEU:HD12	1.84	0.60
4:S:1612:LYS:HD3	4:S:1656:ASP:HA	1.83	0.60
4:S:1662:ASN:HB3	4:S:1698:PHE:HB3	1.84	0.60
4:S:1881:TYR:OH	4:S:1955:VAL:N	2.34	0.60
4:S:2271:SER:HA	4:S:2274:ILE:HD12	1.84	0.60
5:T:213:ILE:O	5:T:218:ARG:NH2	2.35	0.60
5:T:469:LEU:HB3	6:U:345:PHE:HB2	1.84	0.60
6:U:666:VAL:HG11	6:U:678:VAL:HG11	1.83	0.60
1:K:175:ASP:OD1	1:K:176:LEU:N	2.35	0.60
1:K:191:ILE:HG21	1:L:190:LYS:HE3	1.83	0.60
1:L:120:ALA:HA	1:L:123:ILE:HD12	1.83	0.60
3:R:106:LEU:HB3	3:R:121:PHE:HB2	1.83	0.60
4:F:885:ALA:O	4:F:888:ARG:NH1	2.34	0.60
4:F:1069:HIS:HB3	4:F:1074:LYS:HE3	1.83	0.60
4:F:1686:LEU:HB3	4:F:1738:ASN:HB3	1.84	0.60
4:F:2121:ASP:O	4:F:2127:LYS:NZ	2.27	0.60
4:F:2776:ARG:HH21	4:F:2782:ASP:HB2	1.67	0.60
4:F:3227:ILE:HG23	4:F:3230:LEU:HD12	1.83	0.60
7:I:19:DC:H1'	7:I:20:DT:C2	2.37	0.60
4:A:1390:GLN:O	4:A:1394:HIS:HB2	2.02	0.60
4:A:1457:GLN:HA	4:A:1460:ARG:HD3	1.82	0.60
4:A:3254:LEU:HA	4:A:3258:LEU:HD13	1.83	0.60
4:A:3285:HIS:O	4:A:3289:ARG:NH1	2.34	0.60
4:A:3880:ALA:HA	4:A:3966:GLN:HE22	1.65	0.60
4:S:181:LEU:HB2	4:S:230:LEU:HD21	1.83	0.60
5:T:173:ASP:HA	5:T:213:ILE:HA	1.83	0.60
5:T:473:TYR:HE2	6:U:348:SER:HA	1.65	0.60
1:N:176:LEU:HD11	1:O:173:GLU:HG3	1.82	0.60
1:O:56:ALA:HA	1:O:63:LYS:HB2	1.84	0.60
3:R:142:MET:HB3	3:R:221:VAL:HG21	1.84	0.60
4:F:174:VAL:C	4:F:224:LEU:H	2.05	0.60
4:F:3126:LEU:O	4:F:3130:GLN:NE2	2.35	0.60
5:G:480:ASN:OD1	5:G:483:LEU:N	2.31	0.60
6:H:59:PHE:HB3	6:H:77:ILE:HG13	1.84	0.60
4:A:1239:PRO:HB3	4:A:1289:SER:HB2	1.83	0.60
4:A:3765:GLU:HG3	4:A:3793:VAL:H	1.67	0.60
4:A:3820:MET:HG2	4:A:3825:LYS:HG3	1.83	0.60
6:C:488:GLN:HB3	6:C:509:GLN:HG2	1.84	0.60
5:T:174:ASN:HB2	5:T:215:LEU:HD12	1.84	0.60
5:T:359:HIS:HB3	6:U:420:VAL:HG12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:106:GLU:O	4:F:110:THR:HG23	2.01	0.60
4:F:712:LYS:HE3	4:F:744:ASP:HB3	1.84	0.60
4:F:1031:ARG:HA	4:F:1034:ARG:HG2	1.84	0.60
4:F:2866:ALA:O	4:F:2899:ARG:NH1	2.35	0.60
4:F:3974:MET:HG3	4:F:3976:GLU:H	1.66	0.60
6:H:663:GLN:HG2	6:H:707:PRO:HD2	1.82	0.60
4:A:204:LEU:O	4:A:208:MET:HB2	2.02	0.60
4:A:269:SER:HB3	4:A:308:LEU:HD23	1.82	0.60
4:A:3194:GLU:HG3	4:A:3195:GLU:HG2	1.83	0.60
4:A:3244:ASP:OD1	4:A:3282:ARG:NH1	2.35	0.60
5:B:440:ALA:HA	6:C:267:ILE:HA	1.83	0.60
4:S:108:LYS:HD2	4:S:149:ILE:HG22	1.83	0.60
5:T:101:ASN:ND2	5:T:140:ASP:O	2.35	0.60
5:T:258:ARG:NH2	7:V:35:DT:OP2	2.34	0.60
7:V:21:DA:N6	8:W:35:DT:O4	2.35	0.60
2:P:654:LYS:N	2:P:660:GLU:OE2	2.35	0.59
4:F:993:HIS:O	4:F:1043:GLN:NE2	2.35	0.59
4:F:1524:LEU:HD12	4:F:1527:ARG:HH11	1.67	0.59
4:F:1776:GLU:O	4:F:1779:GLN:NE2	2.34	0.59
4:F:3355:LYS:HA	4:F:3358:ARG:HD3	1.84	0.59
5:G:300:THR:HA	6:H:292:GLU:O	2.02	0.59
6:H:334:LYS:NZ	6:H:400:ARG:O	2.23	0.59
4:A:86:LEU:HD13	4:A:89:LEU:HD12	1.84	0.59
4:A:1055:ASN:HA	4:A:1062:ARG:HH12	1.65	0.59
5:B:121:GLN:OE1	5:B:130:ARG:NH2	2.35	0.59
4:S:3151:LEU:HG	4:S:3193:ILE:HA	1.83	0.59
6:U:263:ALA:HA	6:U:364:VAL:HA	1.84	0.59
6:U:273:LYS:HG2	7:V:23:DT:C2	2.37	0.59
1:K:185:ASN:ND2	2:M:767:ILE:O	2.31	0.59
4:F:1921:ASP:OD1	4:F:1922:ALA:N	2.35	0.59
4:F:2353:GLN:HA	4:F:2356:MET:HB3	1.83	0.59
4:F:3545:THR:O	4:F:3549:HIS:ND1	2.31	0.59
6:H:343:LEU:N	6:H:392:ILE:O	2.22	0.59
4:A:1604:SER:HA	4:A:1607:GLU:HG2	1.84	0.59
4:A:2429:ASP:O	4:A:2433:LYS:HB2	2.02	0.59
6:C:80:HIS:HD2	6:C:97:LYS:HD2	1.67	0.59
4:S:275:PHE:O	4:S:279:ALA:N	2.35	0.59
4:S:675:ARG:HG3	4:S:735:SER:HB2	1.84	0.59
4:S:3620:PRO:O	4:S:3630:ARG:NH1	2.35	0.59
4:S:3949:ALA:HB3	4:S:4064:LEU:HA	1.84	0.59
1:N:40:HIS:HB2	1:O:119:PRO:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:151:ARG:HH12	3:Q:190:LEU:HD11	1.67	0.59
4:F:421:LEU:HB3	4:F:471:LYS:HZ3	1.66	0.59
4:F:3459:ASN:O	4:F:3463:LEU:N	2.29	0.59
4:F:3831:ASP:HB3	4:F:3832:PRO:HD3	1.84	0.59
4:A:786:GLN:HG3	4:A:789:TYR:CZ	2.37	0.59
4:A:2460:GLU:OE1	4:A:2460:GLU:N	2.30	0.59
4:A:3273:LEU:HB3	4:A:3315:TYR:CG	2.38	0.59
4:A:3626:GLY:O	4:A:3630:ARG:N	2.31	0.59
4:A:3908:HIS:HA	4:A:3911:ILE:HG22	1.84	0.59
5:B:262:LYS:HA	5:B:268:VAL:HG12	1.83	0.59
9:D:40:DT:H1'	10:E:18:DA:H4'	1.83	0.59
4:S:528:VAL:HB	4:S:532:ARG:HD3	1.84	0.59
1:K:181:ILE:HB	2:M:774:LEU:HB2	1.83	0.59
2:M:720:VAL:HB	2:M:745:HIS:HB3	1.84	0.59
4:F:527:TYR:HB2	4:F:629:PHE:CZ	2.37	0.59
4:F:1937:ARG:O	4:F:1941:HIS:ND1	2.33	0.59
4:F:2362:VAL:HA	4:F:2396:LEU:HD11	1.85	0.59
4:F:2534:ASN:HD21	4:F:2536:LEU:HB3	1.67	0.59
4:F:3011:LEU:HD11	4:F:3047:SER:HB3	1.83	0.59
4:F:3809:THR:HA	4:F:3931:ALA:HA	1.83	0.59
6:H:653:GLN:O	6:H:657:ASN:ND2	2.36	0.59
4:A:1151:ARG:HB2	4:A:1163:LEU:HG	1.84	0.59
4:A:1448:LEU:HD23	4:A:1510:LEU:HD13	1.84	0.59
4:A:1751:GLU:HA	4:A:1785:ILE:HD11	1.85	0.59
4:A:2851:PHE:HB3	4:A:2854:PHE:HB3	1.84	0.59
6:C:161:LEU:HD23	6:C:212:MET:HB3	1.84	0.59
4:S:2353:GLN:NE2	4:S:2363:CYS:SG	2.75	0.59
4:S:2443:MET:HE1	4:S:2479:TRP:HB3	1.83	0.59
4:S:3915:HIS:HA	4:S:3918:LEU:HB2	1.83	0.59
4:F:534:LEU:HD13	4:F:564:LEU:HD22	1.83	0.59
4:F:2737:GLU:HB2	4:F:2740:SER:OG	2.02	0.59
6:H:265:LYS:HA	6:H:362:LEU:HD13	1.84	0.59
7:I:42:DA:H2''	7:I:43:DT:OP1	2.03	0.59
4:A:2085:MET:N	4:A:2188:GLU:OE2	2.36	0.59
4:A:2959:ALA:O	4:A:2963:SER:N	2.35	0.59
4:A:3236:PHE:CE1	4:A:3259:LEU:HD11	2.37	0.59
5:B:164:LYS:O	5:B:199:PHE:N	2.32	0.59
4:S:2331:MET:HG2	4:S:2334:LYS:HG2	1.85	0.59
4:F:1771:GLN:HA	4:F:1775:GLU:HG3	1.84	0.59
4:F:2273:GLY:O	4:F:2277:LEU:HG	2.03	0.59
4:F:2732:PHE:HD1	4:F:2734:ARG:HH11	1.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3058:ASP:OD1	4:F:3059:GLN:N	2.35	0.59
4:F:3243:ILE:HG22	4:F:3247:ARG:HE	1.66	0.59
4:F:3270:ASP:HA	4:F:3273:LEU:HD12	1.83	0.59
5:G:444:ARG:NE	6:H:242:ARG:O	2.36	0.59
6:C:49:GLU:O	6:C:51:LYS:NZ	2.33	0.59
4:S:396:PHE:O	4:S:399:GLN:NE2	2.36	0.59
4:S:730:LEU:HD22	4:S:755:ALA:HB2	1.84	0.59
4:S:1419:LEU:HG	4:S:1467:ILE:HD13	1.85	0.59
4:S:3505:LEU:HD12	4:S:3508:LYS:HB2	1.85	0.59
1:O:62:GLU:OE1	1:O:65:LYS:NZ	2.35	0.59
3:Q:92:GLU:HA	3:Q:110:SER:HB2	1.85	0.59
3:R:14:ALA:HB3	3:R:82:PRO:HD2	1.85	0.59
4:F:269:SER:OG	4:F:273:ARG:NH2	2.35	0.59
4:F:341:PHE:HB3	4:F:369:PHE:CE2	2.37	0.59
4:F:1071:ASN:HB3	4:F:1074:LYS:HG3	1.84	0.59
4:F:2464:HIS:O	4:F:2466:SER:N	2.35	0.59
4:F:2964:ASP:HA	4:F:3252:PHE:HB2	1.85	0.59
4:F:3760:GLN:NE2	4:F:3942:PHE:O	2.36	0.59
5:G:47:ALA:HB1	5:G:171:ASN:H	1.68	0.59
4:A:892:LEU:HD22	4:A:940:PHE:HE2	1.68	0.59
4:A:3531:TYR:HD2	4:A:3793:VAL:HG11	1.67	0.59
4:A:3538:GLU:OE2	4:A:3799:ARG:NH1	2.36	0.59
4:A:3603:LYS:N	4:A:3658:ASP:OD2	2.35	0.59
4:A:3740:ILE:O	4:A:3748:HIS:N	2.35	0.59
4:S:305:ASN:O	4:S:308:LEU:N	2.31	0.59
4:S:726:LEU:HD11	4:S:758:LEU:HD13	1.85	0.59
4:S:2170:GLN:HA	4:S:2173:ALA:HB3	1.83	0.59
4:S:2301:GLN:HA	4:S:2304:VAL:HG22	1.84	0.59
4:S:3048:LYS:HA	4:S:3051:LEU:HD12	1.83	0.59
4:S:3091:LEU:HD13	4:S:3142:ILE:HG13	1.84	0.59
6:U:253:ILE:HG12	6:U:345:PHE:HE1	1.66	0.59
6:U:596:GLU:OE2	6:U:599:ARG:NH1	2.35	0.59
1:N:41:SER:HA	1:N:119:PRO:HB3	1.83	0.59
4:F:469:ALA:HA	4:F:475:LEU:HB2	1.84	0.59
4:F:1725:GLN:HE22	4:F:1727:ARG:HH21	1.50	0.59
4:F:2387:PRO:HG2	5:G:155:SER:HB2	1.85	0.59
4:F:2521:ILE:HA	4:F:2524:PHE:HB3	1.85	0.59
4:F:2776:ARG:NH2	4:F:2782:ASP:HB2	2.18	0.59
4:F:3749:PRO:HB2	4:F:3805:TRP:HD1	1.68	0.59
5:G:85:VAL:HG23	5:G:105:LEU:HB3	1.85	0.59
4:A:1820:VAL:O	4:A:1824:LEU:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2087:GLU:HG3	4:A:2088:LEU:HD22	1.85	0.59
4:A:2931:ARG:HH22	4:A:2997:ALA:HA	1.68	0.59
4:A:3240:MET:HA	4:A:3243:ILE:HD12	1.85	0.59
4:A:3554:PHE:O	4:A:3558:ILE:HG12	2.02	0.59
4:A:3662:ILE:HA	4:A:3665:MET:SD	2.43	0.59
4:A:3719:ILE:HG23	4:A:3740:ILE:HG21	1.84	0.59
4:A:3862:ALA:HB2	4:A:4076:ASP:HB3	1.84	0.59
4:S:274:LEU:O	4:S:278:HIS:ND1	2.35	0.59
4:S:672:ILE:HD12	4:S:675:ARG:HE	1.66	0.59
4:S:1357:LYS:HB2	4:S:1410:PRO:HD2	1.85	0.59
4:S:2197:THR:HA	4:S:2245:TRP:HE1	1.68	0.59
4:S:3764:VAL:HG11	4:S:3945:ALA:HB1	1.85	0.59
4:F:534:LEU:HB3	4:F:564:LEU:HD13	1.84	0.59
4:F:579:LEU:HD12	4:F:581:LEU:HD21	1.85	0.59
4:F:890:LYS:NZ	4:F:892:LEU:O	2.36	0.59
4:F:2253:TYR:HD2	4:F:2291:GLN:HE21	1.50	0.59
4:F:2304:VAL:O	4:F:2307:MET:HB2	2.01	0.59
4:F:3243:ILE:HG21	4:F:3279:SER:HB3	1.85	0.59
4:A:2584:CYS:SG	4:A:2779:ASP:N	2.76	0.59
4:S:386:VAL:HG13	4:S:431:TYR:HE2	1.68	0.59
4:S:1795:VAL:HA	4:S:1798:LEU:HD12	1.85	0.59
4:S:2379:MET:HE2	4:S:2404:ARG:HH21	1.68	0.59
5:T:277:VAL:HG11	6:U:431:ARG:HE	1.67	0.59
6:U:74:TYR:HA	6:U:109:ASP:HB3	1.84	0.59
7:V:41:DT:H2"	7:V:42:DA:H5"	1.85	0.59
3:Y:10:MET:HA	3:Y:221:VAL:HG23	1.82	0.59
3:Y:44:VAL:HG21	3:Y:131:VAL:HG13	1.85	0.59
4:F:327:VAL:HA	4:F:330:ASN:OD1	2.03	0.59
4:F:1723:PRO:O	4:F:1768:ARG:NH1	2.36	0.59
4:F:1765:VAL:O	4:F:1768:ARG:NE	2.27	0.59
4:F:1849:ASP:OD1	4:F:1850:VAL:N	2.35	0.59
4:F:2235:LEU:HA	4:F:2238:ILE:HD12	1.83	0.59
4:F:3041:LEU:HA	4:F:3044:MET:HE2	1.84	0.59
6:H:138:LEU:HB2	6:H:201:GLN:HA	1.85	0.59
4:A:393:LYS:HG3	4:A:394:GLN:HG3	1.85	0.59
4:A:2827:SER:HA	4:A:2830:ASN:HD21	1.67	0.59
4:A:3004:HIS:HB3	4:A:3176:MET:HE1	1.84	0.59
4:A:3856:MET:O	4:A:3860:LYS:HG2	2.03	0.59
4:A:3962:ARG:NH2	4:A:4125:GLU:O	2.28	0.59
6:C:512:ILE:O	6:C:516:LEU:N	2.35	0.59
4:S:1872:GLY:O	4:S:1876:ILE:HG12	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2514:ASN:HB3	4:S:2517:LEU:HB2	1.85	0.59
4:S:2931:ARG:HB2	4:S:2939:LEU:HD21	1.85	0.59
4:S:3174:ASP:HB3	4:S:3178:ILE:HD13	1.84	0.59
4:S:3318:LYS:HE2	4:S:3326:GLN:HB2	1.85	0.59
5:T:36:ASP:O	5:T:82:LEU:N	2.32	0.59
5:T:352:PRO:HG3	5:T:394:VAL:HG22	1.83	0.59
1:K:179:ARG:HB3	2:M:805:TRP:CE2	2.37	0.58
2:M:678:LEU:HD23	2:M:681:ARG:HH21	1.68	0.58
2:P:865:ILE:N	2:P:889:LEU:O	2.26	0.58
4:F:681:LYS:NZ	4:F:739:ASN:OD1	2.37	0.58
4:F:1261:LEU:HD21	4:F:1337:VAL:HA	1.85	0.58
4:F:1455:CYS:HA	4:F:1458:LEU:HD12	1.84	0.58
4:F:3324:ARG:NH2	4:F:3389:VAL:O	2.35	0.58
6:H:384:LEU:HA	6:H:389:MET:HB2	1.84	0.58
4:A:1178:ARG:CZ	4:A:1183:CYS:HB3	2.33	0.58
4:A:1218:SER:HB3	4:A:1283:GLY:H	1.68	0.58
4:A:1254:LEU:HG	4:A:1333:SER:HB3	1.85	0.58
4:A:2382:VAL:O	4:A:2386:LEU:N	2.34	0.58
4:A:3576:ASP:OD2	4:A:3577:GLN:NE2	2.36	0.58
5:B:85:VAL:N	5:B:106:GLN:O	2.26	0.58
5:B:443:LYS:HB2	6:C:268:LEU:HB2	1.85	0.58
6:C:406:GLY:HA2	6:C:423:GLN:HA	1.84	0.58
4:S:932:GLU:OE2	4:S:2772:TYR:N	2.34	0.58
4:S:1001:PHE:HE2	4:S:1049:GLN:HA	1.67	0.58
4:S:1082:PHE:CB	4:S:1129:ASP:H	2.00	0.58
4:S:1111:LEU:O	4:S:1115:HIS:ND1	2.34	0.58
4:S:3783:GLN:HB3	4:S:3986:HIS:CD2	2.38	0.58
6:U:65:ASP:HB2	6:U:78:THR:HA	1.84	0.58
1:K:142:GLU:O	1:K:146:LYS:HG2	2.03	0.58
1:L:18:HIS:HB3	1:L:36:LEU:HD11	1.86	0.58
1:N:139:ALA:O	1:N:142:GLU:HG2	2.03	0.58
1:N:187:LYS:HB3	1:O:187:LYS:HB3	1.86	0.58
3:Q:106:LEU:O	3:Q:120:ASN:HA	2.03	0.58
3:R:18:LEU:HB3	3:R:20:GLU:H	1.69	0.58
4:F:890:LYS:NZ	4:F:906:PHE:HB3	2.18	0.58
4:F:1279:LEU:HB3	4:F:1356:TRP:HE1	1.68	0.58
5:G:94:LYS:O	5:G:104:VAL:N	2.26	0.58
7:I:40:DT:H2'	7:I:41:DT:C2	2.38	0.58
4:A:35:ILE:HB	4:A:84:GLU:HG3	1.85	0.58
4:A:345:PHE:O	4:A:349:ILE:HG22	2.02	0.58
4:A:392:CYS:HB2	4:A:434:VAL:HG21	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:579:LEU:HD22	4:A:619:ASP:HB3	1.84	0.58
4:A:1519:PHE:HB3	4:A:1570:GLU:HB2	1.86	0.58
4:A:2531:LEU:HD21	4:A:2545:LEU:HD22	1.85	0.58
4:A:3137:GLU:HA	4:A:3189:PHE:CZ	2.38	0.58
4:A:3454:LEU:HD21	4:A:3462:ARG:N	2.18	0.58
5:B:485:GLN:NE2	5:B:499:GLU:OE2	2.37	0.58
5:B:511:VAL:HG22	5:B:515:ASN:HB3	1.84	0.58
4:S:440:VAL:HG13	4:S:441:MET:SD	2.43	0.58
4:S:674:VAL:HG21	4:S:736:LEU:HD22	1.84	0.58
4:S:1158:PRO:HG2	4:S:1159:PRO:HD3	1.84	0.58
4:S:2395:THR:HA	4:S:2398:LEU:HD12	1.86	0.58
4:S:2569:SER:HB3	4:S:2572:TYR:HB2	1.84	0.58
4:S:3091:LEU:HD11	4:S:3145:ILE:HG13	1.85	0.58
5:T:493:LEU:HB3	6:U:323:PHE:HZ	1.68	0.58
3:Q:1:MET:N	3:Q:50:ASP:OD1	2.30	0.58
3:Q:44:VAL:HG23	3:Q:135:LEU:HG	1.85	0.58
4:F:1407:LYS:NZ	4:F:1461:ALA:O	2.36	0.58
5:G:463:LYS:HG2	6:H:387:LEU:HG	1.84	0.58
6:H:247:TRP:NE1	6:H:397:TYR:O	2.35	0.58
4:A:1087:ARG:HA	4:A:1090:ARG:HH12	1.68	0.58
4:A:1194:PHE:HA	4:A:1197:LEU:HB2	1.85	0.58
4:A:1622:ILE:HA	4:A:1625:HIS:CE1	2.38	0.58
5:B:256:LEU:HD23	9:D:32:DA:C4	2.38	0.58
6:C:221:LEU:HD13	6:C:224:ILE:HD12	1.86	0.58
4:S:624:ILE:O	4:S:628:GLU:HG2	2.03	0.58
4:S:708:VAL:O	4:S:712:LYS:HG2	2.03	0.58
5:T:357:LYS:O	5:T:358:LYS:NZ	2.36	0.58
5:T:481:PRO:HA	5:T:485:GLN:H	1.68	0.58
1:O:166:VAL:HG22	2:P:847:PHE:HD2	1.67	0.58
4:F:1151:ARG:HG3	4:F:1163:LEU:HD12	1.84	0.58
4:F:3386:SER:O	4:F:3390:GLN:NE2	2.36	0.58
4:F:3659:PHE:HA	4:F:3662:ILE:HD12	1.85	0.58
4:A:1328:GLU:HB3	4:A:1329:ARG:HH21	1.68	0.58
4:A:1887:ASP:O	4:A:1890:HIS:NE2	2.37	0.58
4:A:3302:LYS:HG2	4:A:3330:LEU:HD11	1.85	0.58
4:A:3338:ALA:HB1	4:A:3378:TYR:CE1	2.38	0.58
4:A:3525:TYR:HD2	4:A:3712:LEU:HB2	1.68	0.58
4:S:1635:LYS:HD3	4:S:1683:LYS:HG2	1.85	0.58
4:S:2170:GLN:N	4:S:2170:GLN:OE1	2.34	0.58
4:S:2560:ASN:ND2	4:S:2799:GLN:OE1	2.35	0.58
4:S:2816:ILE:HG13	4:S:2820:MET:HE3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3022:GLU:OE1	4:S:3036:TYR:N	2.35	0.58
4:S:3246:ALA:HB3	4:S:3254:LEU:HD12	1.85	0.58
4:S:3462:ARG:HH22	4:S:3497:SER:N	2.01	0.58
4:S:3870:SER:O	4:S:3874:ARG:NE	2.25	0.58
5:T:285:PRO:HA	6:U:314:PHE:HA	1.86	0.58
5:T:481:PRO:HD3	5:T:507:THR:OG1	2.03	0.58
2:M:694:GLY:N	2:M:697:THR:OG1	2.36	0.58
4:F:1532:LEU:HD21	4:F:1560:TYR:HB2	1.84	0.58
4:F:1538:LEU:O	4:F:1552:HIS:ND1	2.26	0.58
4:F:2233:HIS:O	4:F:2236:GLU:HG3	2.03	0.58
4:F:3413:TYR:HB2	4:F:3453:ALA:HB2	1.84	0.58
4:F:3644:PHE:CZ	4:F:3659:PHE:HB3	2.39	0.58
4:A:960:GLN:HG3	4:A:963:LYS:HE3	1.85	0.58
4:A:2209:GLU:HA	4:A:2248:CYS:HB3	1.85	0.58
4:A:2582:SER:HB3	4:A:2780:LEU:HD22	1.83	0.58
4:A:3875:GLU:O	4:A:3965:ARG:NH1	2.36	0.58
4:A:3951:GLN:HB2	4:A:4070:LYS:HE2	1.84	0.58
4:A:4098:LEU:HB3	4:A:4102:THR:OG1	2.02	0.58
5:B:392:LYS:HB2	6:C:458:ILE:HG21	1.85	0.58
4:S:16:GLN:NE2	4:S:66:LEU:HD22	2.19	0.58
4:S:2508:GLN:HA	4:S:2550:ILE:HD11	1.85	0.58
5:T:45:SER:HB2	5:T:141:TYR:HB3	1.85	0.58
5:T:147:LEU:HA	5:T:150:CYS:HB3	1.84	0.58
6:U:442:LYS:O	6:U:450:GLN:NE2	2.35	0.58
4:F:20:SER:HB2	4:F:63:PHE:HE1	1.68	0.58
4:F:323:VAL:HA	4:F:326:MET:HG2	1.84	0.58
4:F:933:LEU:HB2	4:F:2793:PRO:HB2	1.86	0.58
4:F:3276:TRP:CZ2	4:F:3306:LEU:HD12	2.38	0.58
4:F:3791:TYR:HB2	4:F:3938:ILE:HG12	1.86	0.58
5:G:426:GLN:HE21	5:G:429:PRO:HA	1.68	0.58
4:A:3786:LEU:HD22	4:A:3990:ALA:HB2	1.86	0.58
5:B:463:LYS:HG2	6:C:387:LEU:HD11	1.85	0.58
5:B:531:PRO:HB2	5:B:534:TYR:HA	1.84	0.58
6:C:341:SER:O	6:C:394:ARG:N	2.37	0.58
4:S:359:LEU:O	4:S:363:ILE:HG12	2.03	0.58
4:S:489:ARG:O	4:S:493:LYS:NZ	2.33	0.58
4:S:1258:ASP:HA	4:S:1261:LEU:HD12	1.86	0.58
4:S:2328:ARG:NH1	4:S:2329:TYR:OH	2.36	0.58
4:S:2443:MET:SD	4:S:2476:ILE:HG23	2.44	0.58
4:S:3531:TYR:HB2	4:S:3532:PRO:HD3	1.84	0.58
2:M:887:LYS:HG2	2:M:911:ILE:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:3:ARG:HB3	1:N:21:GLN:HB2	1.84	0.58
3:Q:16:LEU:HD22	3:Q:106:LEU:HD23	1.85	0.58
4:F:73:LEU:O	4:F:79:ARG:NH2	2.26	0.58
4:F:142:ARG:NH2	4:F:181:LEU:O	2.37	0.58
4:F:1329:ARG:NH1	4:F:1333:SER:HB3	2.19	0.58
4:F:2358:ASP:OD2	4:F:2359:LYS:NZ	2.31	0.58
4:F:3141:PHE:HE1	4:F:3193:ILE:HG12	1.69	0.58
4:F:3634:GLN:O	4:F:3638:LYS:NZ	2.36	0.58
4:F:4055:ASN:ND2	4:F:4091:ALA:O	2.37	0.58
5:G:442:ASP:HB3	6:H:267:ILE:HG23	1.86	0.58
4:A:251:PHE:HZ	6:C:553:ILE:HD13	1.68	0.58
4:A:3784:ARG:HE	4:A:3786:LEU:HD21	1.69	0.58
5:B:286:ILE:O	6:C:313:GLY:N	2.37	0.58
4:S:3903:HIS:ND1	4:S:3934:THR:O	2.36	0.58
5:T:172:GLU:HB3	5:T:175:PRO:HB3	1.86	0.58
1:K:34:ILE:O	1:K:45:GLY:N	2.35	0.58
1:N:43:TRP:NE1	1:N:90:LYS:O	2.37	0.58
2:P:658:ILE:HD11	2:P:734:SER:HA	1.86	0.58
4:F:214:GLU:O	4:F:216:LYS:NZ	2.36	0.58
4:F:528:VAL:O	4:F:532:ARG:NH1	2.36	0.58
5:G:351:LYS:NZ	6:H:476:LEU:HB3	2.18	0.58
6:H:40:MET:O	6:H:43:GLN:HG3	2.03	0.58
6:H:56:LEU:HB3	6:H:81:ARG:H	1.68	0.58
6:H:134:ILE:HG13	6:H:161:LEU:HD11	1.86	0.58
6:H:362:LEU:HB2	6:H:421:TYR:HB3	1.85	0.58
4:A:990:GLN:HE21	4:A:2781:PRO:HA	1.69	0.58
4:A:2986:PRO:HG2	4:A:2991:LYS:HD3	1.86	0.58
4:A:3024:PRO:HG2	4:A:3031:TRP:NE1	2.18	0.58
6:C:242:ARG:HH21	6:C:243:HIS:HB3	1.69	0.58
4:S:25:CYS:SG	4:S:26:GLY:N	2.77	0.58
4:S:671:SER:OG	4:S:675:ARG:NH2	2.35	0.58
4:S:2224:PHE:HA	4:S:2231:PHE:CE1	2.39	0.58
4:S:2280:VAL:HG13	4:S:2285:LEU:HB2	1.86	0.58
4:S:2589:TYR:N	4:S:2775:TYR:O	2.37	0.58
4:S:3061:LEU:HD12	4:S:3064:PHE:HD2	1.69	0.58
4:S:4115:ASN:OD1	4:S:4116:ILE:N	2.36	0.58
5:T:348:MET:HB3	6:U:518:PRO:HD3	1.85	0.58
6:U:700:GLU:O	6:U:708:LYS:N	2.32	0.58
1:K:98:GLU:HA	1:K:108:LEU:H	1.68	0.58
1:N:155:TRP:CD1	1:O:154:ASP:HB3	2.39	0.58
4:F:86:LEU:HD12	4:F:126:PRO:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:915:THR:O	4:F:919:LEU:CB	2.52	0.58
4:F:1528:LEU:HB2	4:F:1571:LEU:HD11	1.86	0.58
4:F:1769:GLU:H	4:F:1772:HIS:CE1	2.21	0.58
4:F:3960:PRO:HG3	4:F:4111:ALA:HB1	1.85	0.58
6:H:147:LEU:HG	6:H:211:VAL:HG21	1.85	0.58
4:A:921:ALA:HB3	4:A:927:LYS:HB2	1.84	0.58
4:A:1009:LEU:O	4:A:1013:ILE:HG12	2.03	0.58
4:A:4004:VAL:HB	4:A:4008:GLU:HG3	1.86	0.58
4:S:962:TYR:HB3	4:S:966:PHE:CE1	2.39	0.58
4:S:1519:PHE:HE1	4:S:1570:GLU:HB2	1.68	0.58
4:S:1789:GLY:O	4:S:1794:GLN:NE2	2.28	0.58
4:S:3234:CYS:HA	4:S:3237:SER:HB3	1.86	0.58
4:S:3887:PHE:CD1	4:S:3901:ARG:HB2	2.32	0.58
5:T:360:HIS:CD2	6:U:363:LYS:HD2	2.37	0.58
1:L:177:TYR:CD2	2:M:796:ILE:HG12	2.39	0.58
4:F:197:PHE:HA	4:F:200:PHE:CD2	2.39	0.58
4:F:966:PHE:O	4:F:969:LEU:HG	2.04	0.58
4:F:3529:ILE:O	4:F:3533:PHE:N	2.34	0.58
5:G:40:PHE:HE1	5:G:83:LEU:HB3	1.69	0.58
4:A:2880:CYS:HB3	4:A:2886:GLN:HA	1.86	0.58
6:C:36:LYS:NZ	6:C:235:CYS:SG	2.72	0.58
6:C:104:GLN:HB3	6:C:141:ARG:H	1.69	0.58
6:C:359:ASN:ND2	9:D:26:DA:N7	2.52	0.58
4:S:736:LEU:HD12	4:S:740:ILE:HG21	1.85	0.58
4:S:1107:TYR:HE2	4:S:1130:ALA:HB3	1.69	0.58
4:S:1210:ASP:HA	4:S:1213:LYS:HD2	1.85	0.58
4:S:2219:LEU:O	4:S:2223:VAL:N	2.37	0.58
4:S:2234:ASN:HA	4:S:2237:ILE:HD12	1.85	0.58
4:S:2856:SER:HA	4:S:2888:VAL:HG11	1.85	0.58
4:S:3328:ILE:O	4:S:3332:THR:HB	2.04	0.58
4:S:3786:LEU:HG	4:S:3987:ALA:HB2	1.85	0.58
5:T:41:LEU:HD11	5:T:146:VAL:HG11	1.86	0.58
6:U:639:ILE:HG13	6:U:640:ARG:HD2	1.85	0.58
1:K:154:ASP:OD1	1:K:155:TRP:N	2.36	0.57
4:F:678:LYS:HD3	4:F:737:PRO:HB3	1.86	0.57
4:F:1254:LEU:HD23	4:F:1257:LEU:HD12	1.86	0.57
4:F:1913:LYS:HA	4:F:1916:ILE:HD12	1.86	0.57
4:F:3448:GLU:HB3	4:F:3482:LEU:HD13	1.86	0.57
5:G:64:ILE:HG21	5:G:123:LYS:HA	1.85	0.57
5:G:105:LEU:HG	5:G:118:GLU:OE2	2.04	0.57
5:G:320:GLN:HB2	5:G:327:ILE:HB	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:30:PRO:HB3	6:H:166:PRO:HB3	1.86	0.57
6:H:40:MET:SD	6:H:230:SER:OG	2.61	0.57
4:A:542:ASP:OD1	4:A:543:SER:N	2.37	0.57
4:A:2154:GLU:O	4:A:2158:ARG:N	2.37	0.57
4:A:2255:LEU:O	4:A:2259:LYS:N	2.37	0.57
5:B:289:TYR:N	5:B:294:GLU:O	2.36	0.57
5:B:301:ARG:HB3	5:B:310:LEU:HD22	1.85	0.57
5:B:382:PHE:HB3	6:C:438:LEU:HD21	1.86	0.57
4:S:782:ARG:HG2	4:S:3164:TRP:CD2	2.39	0.57
4:S:2218:PHE:O	4:S:2222:HIS:ND1	2.37	0.57
3:X:13:TRP:N	3:X:215:GLN:OE1	2.36	0.57
2:M:697:THR:O	2:M:718:HIS:NE2	2.36	0.57
2:M:875:PHE:HB3	2:M:888:ILE:HD12	1.86	0.57
1:N:19:PHE:HZ	1:O:124:ARG:HA	1.69	0.57
4:F:472:GLY:O	4:F:476:ARG:NE	2.34	0.57
4:F:1347:THR:O	4:F:1351:THR:N	2.36	0.57
4:F:2218:PHE:O	4:F:2222:HIS:ND1	2.37	0.57
4:A:1235:ILE:O	4:A:1289:SER:OG	2.20	0.57
4:A:1581:GLU:O	4:A:1584:GLN:NE2	2.37	0.57
4:A:1718:ILE:HB	4:A:1765:VAL:HG11	1.85	0.57
4:A:3348:LEU:HD23	4:A:3351:ILE:HD11	1.85	0.57
4:A:4021:LEU:HA	4:A:4028:ILE:HG12	1.84	0.57
5:B:286:ILE:HG21	6:C:320:ILE:HD13	1.86	0.57
6:C:348:SER:N	6:C:388:ASP:O	2.38	0.57
4:S:124:LYS:HB3	4:S:126:PRO:HD2	1.86	0.57
4:S:196:LEU:HD13	4:S:227:LEU:HD21	1.86	0.57
4:S:3413:TYR:HE2	4:S:3453:ALA:HB2	1.69	0.57
1:L:19:PHE:N	1:L:37:THR:O	2.37	0.57
3:Q:214:LEU:HD23	3:Q:217:LEU:HD13	1.86	0.57
4:F:31:GLY:HA2	4:F:34:LEU:HD12	1.86	0.57
4:F:1141:LYS:HB3	4:F:1144:SER:HB2	1.85	0.57
4:F:3718:ARG:O	4:F:3743:HIS:N	2.33	0.57
6:H:693:GLY:H	6:H:696:VAL:HG22	1.69	0.57
4:A:642:PHE:O	4:A:646:VAL:N	2.37	0.57
4:A:746:ARG:O	4:A:746:ARG:NH1	2.33	0.57
4:A:1431:LEU:HD22	4:A:1451:VAL:HG21	1.86	0.57
4:A:1607:GLU:O	4:A:1611:GLN:N	2.37	0.57
4:A:1855:PHE:HB2	4:A:1863:PHE:CD1	2.39	0.57
4:A:4025:GLY:HA2	4:A:4028:ILE:HG13	1.87	0.57
4:S:571:SER:O	4:S:574:LYS:HG2	2.03	0.57
4:S:1184:ARG:NH2	4:S:1265:GLU:OE1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1366:THR:HG21	4:S:1411:TYR:HE2	1.70	0.57
5:T:283:PRO:HD3	5:T:483:LEU:HD23	1.85	0.57
5:T:344:GLY:H	5:T:401:THR:HB	1.69	0.57
6:U:19:THR:HG23	6:U:140:SER:HB2	1.85	0.57
6:U:65:ASP:N	6:U:77:ILE:O	2.27	0.57
6:U:319:ASP:OD1	6:U:320:ILE:N	2.37	0.57
6:U:454:VAL:O	6:U:458:ILE:N	2.34	0.57
3:Y:165:GLN:NE2	3:Y:168:GLN:OE1	2.37	0.57
1:L:34:ILE:HB	1:L:113:LEU:HD22	1.85	0.57
2:M:666:VAL:HG11	2:M:678:LEU:HB2	1.85	0.57
1:O:52:ILE:HD11	1:O:71:ARG:HH21	1.69	0.57
3:R:138:PRO:HB2	3:R:218:TYR:CE2	2.40	0.57
4:F:473:PRO:O	4:F:477:ASN:ND2	2.38	0.57
4:F:1394:HIS:CE1	4:F:1398:VAL:HB	2.39	0.57
4:F:2826:LEU:HD13	4:F:2829:LYS:HD2	1.84	0.57
4:F:3110:PHE:CD2	4:F:3135:LEU:HD11	2.40	0.57
7:I:25:DA:C6	8:J:33:DA:H1'	2.40	0.57
4:A:84:GLU:O	4:A:87:LYS:HG2	2.04	0.57
4:A:466:LEU:HD21	4:A:545:LEU:HB3	1.87	0.57
4:A:1920:TYR:HA	4:A:1923:PHE:CE2	2.40	0.57
4:A:2253:TYR:HB2	4:A:2289:ASP:HB2	1.86	0.57
4:A:3034:PRO:HG2	4:A:3037:GLN:HE21	1.69	0.57
4:A:3332:THR:HA	4:A:3335:ARG:HG2	1.85	0.57
4:A:3335:ARG:HH22	4:A:3418:ASP:HB3	1.70	0.57
4:S:28:ALA:O	4:S:32:HIS:ND1	2.37	0.57
4:S:715:ALA:HA	4:S:718:MET:HB2	1.87	0.57
4:S:1240:THR:HA	4:S:1310:GLU:HB3	1.87	0.57
4:S:1413:ASP:OD1	4:S:1414:ILE:N	2.35	0.57
4:S:2220:MET:HA	4:S:2223:VAL:HG12	1.87	0.57
4:S:2462:VAL:HG21	4:S:2508:GLN:HB2	1.86	0.57
4:S:3384:HIS:HA	4:S:3387:GLU:HB2	1.86	0.57
5:T:433:GLN:OE1	6:U:431:ARG:NH1	2.38	0.57
6:U:270:GLU:O	6:U:486:ARG:NH2	2.36	0.57
6:U:643:ARG:NH1	6:U:643:ARG:O	2.37	0.57
1:K:29:GLU:HG2	1:K:67:VAL:HG11	1.86	0.57
4:F:916:GLU:HA	4:F:919:LEU:HD23	1.86	0.57
4:F:1322:THR:O	4:F:1326:GLU:N	2.38	0.57
4:A:912:PRO:O	4:A:915:THR:OG1	2.21	0.57
4:A:1137:ILE:HA	4:A:1140:LYS:HD2	1.87	0.57
4:A:1619:ALA:HB1	4:A:1652:ILE:HG23	1.86	0.57
4:A:1717:LEU:HG	4:A:1721:HIS:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2105:HIS:ND1	4:A:2156:VAL:HA	2.19	0.57
4:A:3752:VAL:HA	4:A:3803:ILE:H	1.70	0.57
6:C:14:MET:HE3	6:C:135:PHE:HD2	1.70	0.57
4:S:457:CYS:O	4:S:461:ILE:HG12	2.04	0.57
4:S:862:LEU:HA	4:S:866:ILE:HD12	1.87	0.57
4:S:1372:LEU:O	4:S:1376:LEU:HG	2.04	0.57
4:S:1471:GLN:HG3	4:S:1477:HIS:H	1.70	0.57
4:S:2205:VAL:HG22	4:S:2207:LYS:H	1.68	0.57
4:S:2388:LYS:HG2	5:T:155:SER:HB2	1.86	0.57
4:S:2415:LEU:HB2	4:S:2420:PHE:HB3	1.85	0.57
4:S:3447:VAL:HG21	4:S:3478:GLU:HG3	1.86	0.57
8:W:25:DT:OP2	8:W:26:DT:N3	2.35	0.57
2:P:869:HIS:CE1	2:P:890:LYS:HD2	2.39	0.57
4:F:418:ALA:HB2	4:F:464:VAL:HG12	1.86	0.57
4:F:677:ALA:O	4:F:681:LYS:N	2.38	0.57
4:F:832:LYS:HG2	4:F:834:LEU:HD22	1.86	0.57
4:F:1791:CYS:HA	4:F:1835:ALA:HB2	1.86	0.57
4:F:2242:VAL:HG11	4:F:2279:ILE:HG23	1.85	0.57
4:F:2491:THR:O	4:F:2496:GLN:NE2	2.37	0.57
4:F:3305:SER:OG	4:F:3309:GLU:OE2	2.22	0.57
4:A:142:ARG:HE	4:A:182:GLY:HA2	1.68	0.57
4:A:926:THR:HG22	4:A:2800:ARG:HH11	1.70	0.57
4:A:1747:LEU:HD21	4:A:1778:PHE:CE1	2.39	0.57
4:A:2408:MET:HB3	4:A:2411:LEU:HB3	1.87	0.57
4:A:3246:ALA:HB1	4:A:3251:ASN:HB3	1.86	0.57
4:A:3627:ALA:HA	4:A:3630:ARG:HB2	1.86	0.57
4:A:3882:LEU:HD22	4:A:3885:ARG:HH12	1.67	0.57
5:B:269:ILE:HG12	5:B:375:VAL:HG21	1.86	0.57
5:B:361:TYR:HA	5:B:436:PHE:HB2	1.87	0.57
6:C:74:TYR:HB3	6:C:77:ILE:HG13	1.85	0.57
6:C:241:GLU:HG2	6:C:266:SER:HA	1.85	0.57
4:S:129:ASP:HA	4:S:132:ILE:HG12	1.86	0.57
4:S:3280:TYR:CZ	4:S:3283:LEU:HD13	2.40	0.57
5:T:72:ILE:HA	5:T:75:ILE:HD12	1.85	0.57
5:T:387:ILE:HA	5:T:417:GLU:HG3	1.86	0.57
5:T:388:LYS:HB3	6:U:458:ILE:HD13	1.87	0.57
6:U:335:SER:OG	6:U:394:ARG:NH2	2.38	0.57
3:Y:45:TRP:HB3	3:Y:123:CYS:HB3	1.86	0.57
1:K:139:ALA:C	1:K:141:ASN:N	2.58	0.57
1:N:178:LYS:HA	1:N:181:ILE:HD12	1.87	0.57
1:O:74:LEU:HD23	1:O:111:PHE:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:46:HIS:CE1	3:Q:133:GLN:HB2	2.40	0.57
4:F:528:VAL:O	4:F:532:ARG:HG2	2.03	0.57
4:F:1445:ARG:HG2	4:F:1510:LEU:HD13	1.87	0.57
4:F:1538:LEU:N	4:F:1553:PHE:O	2.37	0.57
4:F:1553:PHE:HE2	4:F:1558:TYR:HB2	1.69	0.57
4:F:2860:ASP:O	4:F:2864:GLN:HG2	2.03	0.57
4:F:3123:GLN:OE1	4:F:3123:GLN:N	2.31	0.57
4:F:4085:LYS:O	4:F:4089:ILE:N	2.28	0.57
5:G:183:ALA:HB1	5:G:187:ARG:HH12	1.68	0.57
6:H:9:ALA:N	6:H:129:LYS:O	2.37	0.57
6:H:134:ILE:HD11	6:H:161:LEU:HD21	1.85	0.57
4:S:41:GLU:O	4:S:45:SER:N	2.38	0.57
4:S:652:GLU:HA	4:S:655:LEU:HD12	1.87	0.57
4:S:1734:PRO:HA	4:S:1737:ASN:HB2	1.86	0.57
4:S:2307:MET:SD	4:S:2319:ALA:HB3	2.44	0.57
4:S:3444:ALA:HA	4:S:3478:GLU:HB3	1.85	0.57
4:S:3470:GLN:NE2	4:S:3473:GLU:OE1	2.36	0.57
5:T:439:PHE:HA	6:U:479:THR:HG22	1.86	0.57
6:U:50:ASN:O	6:U:236:VAL:HG13	2.05	0.57
6:U:244:SER:HB3	7:V:24:DA:H62	1.69	0.57
6:U:283:THR:HG23	6:U:285:LYS:H	1.69	0.57
6:U:643:ARG:NH1	6:U:647:ILE:HG13	2.20	0.57
6:U:693:GLY:H	6:U:696:VAL:HG22	1.69	0.57
3:X:153:LEU:HD12	3:Y:150:VAL:HG13	1.86	0.57
3:Y:29:ILE:HG13	3:Y:79:LEU:HB3	1.85	0.57
1:K:18:HIS:HE1	1:K:90:LYS:HE3	1.69	0.57
2:P:864:ILE:HA	2:P:889:LEU:HB2	1.86	0.57
3:Q:202:CYS:O	3:R:137:ARG:NH1	2.37	0.57
4:F:15:LEU:HD12	4:F:41:GLU:HG2	1.87	0.57
4:F:1685:ASP:HB3	4:F:1688:LEU:HG	1.85	0.57
4:F:1769:GLU:HB2	4:F:1772:HIS:CG	2.40	0.57
4:F:3738:ILE:N	4:F:3750:PHE:O	2.37	0.57
5:G:337:LEU:HD23	6:H:489:ARG:HE	1.69	0.57
5:G:441:ASP:OD1	6:H:270:GLU:N	2.35	0.57
6:H:363:LYS:HE2	6:H:418:CYS:HB2	1.86	0.57
4:S:213:ARG:HB3	5:T:339:ARG:HH22	1.69	0.57
4:S:944:LYS:HA	4:S:2577:PHE:HE2	1.69	0.57
4:S:4088:ASN:HB3	4:S:4110:GLN:HA	1.85	0.57
5:T:92:LYS:NZ	5:T:133:ASP:O	2.37	0.57
6:U:93:ASP:HA	6:U:97:LYS:HB2	1.85	0.57
1:L:25:GLU:O	1:L:26:LYS:HG3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:706:ASN:H	2:P:709:VAL:HB	1.69	0.57
3:R:132:SER:O	3:R:137:ARG:N	2.33	0.57
4:F:440:VAL:HG21	4:F:485:GLN:HG3	1.85	0.57
4:F:1538:LEU:HA	4:F:1555:HIS:NE2	2.20	0.57
4:F:1865:THR:HB	4:F:1869:LYS:HZ1	1.69	0.57
4:F:2806:LYS:NZ	4:F:2807:GLN:OE1	2.31	0.57
4:F:3580:ASN:HD21	4:F:3582:GLU:HB2	1.70	0.57
4:F:3580:ASN:HD22	4:F:3583:LEU:HG	1.68	0.57
4:F:3945:ALA:N	4:F:3948:SER:OG	2.38	0.57
5:G:479:GLU:OE1	5:G:479:GLU:N	2.38	0.57
4:A:670:LEU:HG	4:A:732:PHE:CD1	2.40	0.57
4:A:733:LEU:HD12	4:A:736:LEU:HD12	1.87	0.57
4:A:2486:ASP:OD1	4:A:2486:ASP:N	2.37	0.57
4:A:2773:ARG:HE	4:A:2775:TYR:H	1.52	0.57
4:A:3950:THR:H	4:A:4068:HIS:N	1.98	0.57
6:C:107:PHE:HZ	6:C:208:VAL:HB	1.69	0.57
4:S:1420:ARG:HG2	4:S:1467:ILE:HD12	1.87	0.57
4:S:2862:SER:HA	4:S:2868:LEU:HB3	1.87	0.57
4:S:3297:VAL:HA	4:S:3300:VAL:HG22	1.87	0.57
5:T:398:CYS:SG	5:T:399:ARG:N	2.78	0.57
7:V:26:DA:H5''	8:W:31:DT:H2'	1.87	0.57
2:M:814:ARG:HA	2:M:849:GLY:HA3	1.85	0.57
4:F:642:PHE:HD1	4:F:645:TRP:HB2	1.70	0.57
4:F:1766:LEU:HD13	4:F:1778:PHE:CD2	2.40	0.57
4:F:2227:LYS:O	4:F:2228:ARG:HG2	2.04	0.57
4:F:3130:GLN:HG2	4:F:3178:ILE:HG21	1.86	0.57
4:F:3464:LYS:HD3	4:F:3997:LEU:HD21	1.86	0.57
4:F:3962:ARG:HH21	4:F:3964:THR:HB	1.69	0.57
6:H:491:PHE:O	6:H:495:LEU:HG	2.04	0.57
6:H:633:MET:HA	6:H:636:ILE:HG12	1.87	0.57
4:A:1605:PHE:HA	4:A:1608:ARG:HB3	1.86	0.57
4:S:493:LYS:O	4:S:625:ASN:ND2	2.38	0.57
4:S:1647:ALA:O	4:S:1651:LYS:HG2	2.05	0.57
4:S:1828:LEU:O	4:S:1883:ARG:NH1	2.38	0.57
4:S:2241:LEU:HA	4:S:2244:CYS:HB3	1.87	0.57
4:S:2466:SER:OG	4:S:2469:CYS:SG	2.63	0.57
5:T:37:SER:HB2	5:T:108:LEU:HD13	1.87	0.57
6:U:489:ARG:O	6:U:492:GLN:HG3	2.04	0.57
1:K:150:ARG:HD2	2:M:836:THR:HG22	1.86	0.56
1:L:178:LYS:HZ3	2:M:786:GLU:N	2.02	0.56
1:N:22:VAL:HG11	1:N:74:LEU:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:879:ARG:HG2	2:P:886:PHE:H	1.69	0.56
4:F:176:GLU:H	4:F:223:CYS:N	2.03	0.56
4:F:296:VAL:HG22	4:F:300:TRP:CD1	2.40	0.56
4:F:1009:LEU:O	4:F:1013:ILE:HG12	2.04	0.56
4:F:2398:LEU:HD13	4:F:2434:VAL:HG21	1.87	0.56
4:F:2574:ASN:O	4:F:2787:HIS:N	2.38	0.56
5:G:445:LYS:O	6:H:243:HIS:ND1	2.37	0.56
8:J:13:DA:N6	8:J:14:DT:H3	2.03	0.56
4:A:892:LEU:HB3	4:A:907:LEU:HB2	1.86	0.56
4:A:990:GLN:NE2	4:A:2781:PRO:HA	2.20	0.56
4:A:1076:LEU:HB2	4:A:1123:THR:HA	1.86	0.56
4:A:2395:THR:O	4:A:2399:GLU:HG3	2.05	0.56
4:A:2424:MET:HB3	4:A:2461:PHE:CZ	2.40	0.56
4:A:2470:ARG:HA	4:A:2473:MET:HE3	1.86	0.56
4:A:3061:LEU:O	4:A:3065:ILE:HG12	2.05	0.56
4:A:3385:LEU:HB3	4:A:3416:LEU:HB2	1.87	0.56
4:A:3462:ARG:HA	4:A:3465:PHE:HB2	1.87	0.56
4:S:417:VAL:HA	4:S:420:VAL:HG12	1.87	0.56
4:S:881:LYS:HG3	4:S:883:TYR:CE1	2.40	0.56
4:S:2105:HIS:HA	4:S:2108:LEU:HD23	1.86	0.56
4:S:2745:ARG:HD2	7:V:45:DG:H21	1.69	0.56
5:T:328:ILE:O	6:U:497:ARG:NH1	2.38	0.56
6:U:245:ILE:HD11	7:V:21:DA:H8	1.70	0.56
6:U:265:LYS:O	7:V:24:DA:N6	2.38	0.56
1:L:5:ILE:HA	1:L:21:GLN:HA	1.86	0.56
2:M:764:SER:OG	2:M:765:TYR:N	2.37	0.56
3:Q:16:LEU:HD23	3:Q:18:LEU:HD22	1.87	0.56
4:F:1371:VAL:O	4:F:1375:THR:HG23	2.04	0.56
4:F:1673:THR:HA	4:F:1676:ILE:HD12	1.87	0.56
4:F:2930:TYR:HB3	4:F:2935:GLU:O	2.06	0.56
4:F:3929:MET:SD	4:F:3938:ILE:N	2.78	0.56
4:A:678:LYS:HG2	4:A:737:PRO:HA	1.87	0.56
4:A:688:PRO:HA	4:A:701:TYR:CE1	2.40	0.56
4:A:1370:ARG:HG3	4:A:1418:HIS:CE1	2.38	0.56
4:A:2145:PHE:HA	4:A:2148:LYS:HE3	1.85	0.56
4:A:3010:SER:HA	4:A:3013:TYR:HB3	1.87	0.56
4:A:3965:ARG:HA	4:A:3968:ILE:HD12	1.87	0.56
6:C:127:PHE:O	6:C:130:ARG:NH1	2.38	0.56
4:S:966:PHE:CD1	4:S:1011:GLU:HB2	2.39	0.56
4:S:2856:SER:HB3	4:S:2885:GLN:HG3	1.85	0.56
4:S:2940:ARG:HD3	4:S:2957:LEU:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:29:DA:N3	7:V:29:DA:H5''	2.20	0.56
1:K:140:LYS:N	1:L:137:ASN:HA	2.19	0.56
1:L:133:THR:O	1:L:136:GLU:HB2	2.04	0.56
1:L:174:THR:O	1:L:178:LYS:HG2	2.05	0.56
1:L:179:ARG:O	1:L:183:VAL:HG12	2.04	0.56
2:P:788:THR:HG23	2:P:791:GLU:HB3	1.88	0.56
2:P:872:VAL:HA	2:P:875:PHE:HB2	1.87	0.56
4:F:935:HIS:HE2	4:F:987:LEU:HD13	1.70	0.56
4:F:1137:ILE:HA	4:F:1140:LYS:HE2	1.87	0.56
4:F:1184:ARG:HE	4:F:1262:ALA:HB1	1.70	0.56
4:F:2595:TRP:CE3	4:F:2765:GLN:HB2	2.40	0.56
4:F:2831:ASN:O	4:F:2834:GLN:NE2	2.37	0.56
4:F:3250:ASN:OD1	4:F:3289:ARG:NH2	2.29	0.56
5:G:166:ILE:N	5:G:199:PHE:O	2.34	0.56
5:G:297:LYS:N	6:H:296:CYS:O	2.35	0.56
6:H:241:GLU:HB2	6:H:270:GLU:HB2	1.87	0.56
6:H:412:ILE:HD13	6:H:417:GLU:HG2	1.88	0.56
6:H:499:LEU:HD22	6:H:500:HIS:HD2	1.69	0.56
6:H:657:ASN:O	6:H:660:LYS:HB2	2.04	0.56
4:A:1146:ASN:HA	4:A:1165:LEU:HB2	1.87	0.56
4:A:1805:PHE:HE1	4:A:1817:GLN:HA	1.70	0.56
4:A:2321:GLU:O	4:A:2325:LEU:HG	2.05	0.56
4:A:2385:LEU:O	4:A:2389:PHE:N	2.38	0.56
4:A:3269:ARG:HB2	4:A:3272:TRP:CD2	2.40	0.56
4:A:3471:ILE:HG23	4:A:3475:TYR:HD2	1.71	0.56
4:A:3537:SER:HA	4:A:3540:TYR:HB2	1.87	0.56
4:A:3998:LEU:O	4:A:4002:MET:HG3	2.05	0.56
5:B:372:GLU:HA	5:B:378:SER:HB2	1.87	0.56
6:C:245:ILE:HG13	6:C:246:HIS:H	1.69	0.56
4:S:35:ILE:HD12	4:S:80:GLU:HB3	1.85	0.56
4:S:886:TRP:O	4:S:888:ARG:NH1	2.37	0.56
4:S:1328:GLU:HB3	4:S:1386:ILE:HD13	1.87	0.56
4:S:1437:TYR:N	4:S:1507:CYS:SG	2.68	0.56
4:S:1775:GLU:HA	4:S:1778:PHE:CB	2.35	0.56
4:S:1783:ARG:HH11	4:S:1783:ARG:HA	1.69	0.56
4:S:1937:ARG:O	4:S:1941:HIS:ND1	2.37	0.56
4:S:2306:ASN:HA	4:S:2309:PHE:CD2	2.40	0.56
4:S:2350:LYS:O	4:S:2354:ASN:HB2	2.04	0.56
4:S:2504:ASP:O	4:S:2508:GLN:HG2	2.05	0.56
5:T:43:ASP:OD1	5:T:44:ALA:N	2.39	0.56
5:T:286:ILE:N	6:U:313:GLY:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:400:TYR:CZ	5:T:402:PRO:HB3	2.40	0.56
6:U:132:ILE:HD12	6:U:161:LEU:HD13	1.87	0.56
3:Y:18:LEU:HD21	3:Y:23:LEU:HG	1.88	0.56
3:Y:36:LEU:O	3:Y:47:GLU:N	2.35	0.56
2:M:747:CYS:SG	2:M:749:SER:OG	2.61	0.56
2:M:818:VAL:HB	2:M:850:ALA:HB1	1.86	0.56
1:O:150:ARG:NH2	1:O:154:ASP:OD2	2.39	0.56
3:R:24:LEU:HG	3:R:207:GLY:HA3	1.88	0.56
4:F:49:ALA:H	4:F:52:ALA:HB3	1.71	0.56
4:F:1171:TRP:O	4:F:1175:HIS:ND1	2.33	0.56
4:F:1296:PHE:O	4:F:1299:GLU:HG2	2.06	0.56
4:F:2213:ASN:ND2	4:F:2248:CYS:O	2.31	0.56
5:G:95:ASN:ND2	5:G:102:ILE:HB	2.18	0.56
6:H:529:PRO:O	6:H:533:ILE:HD12	2.05	0.56
4:A:201:LEU:HB2	4:A:249:PHE:HE2	1.69	0.56
4:A:1017:ILE:HG21	4:A:1077:GLY:HA2	1.87	0.56
4:A:3380:ARG:O	4:A:3384:HIS:ND1	2.37	0.56
4:A:3421:ASP:OD2	4:A:3425:ARG:NH2	2.38	0.56
4:S:782:ARG:NH1	4:S:786:GLN:OE1	2.38	0.56
4:S:1711:ARG:NE	4:S:1761:LEU:HD13	2.19	0.56
4:S:1815:THR:N	4:S:1818:SER:HG	2.02	0.56
4:S:3775:LEU:HD23	4:S:3991:PHE:HZ	1.71	0.56
4:S:3865:THR:HA	4:S:4085:LYS:HD3	1.86	0.56
3:Q:43:GLN:HB3	3:Q:45:TRP:CH2	2.41	0.56
3:Q:140:MET:SD	3:R:139:LEU:HD13	2.46	0.56
3:R:29:ILE:HA	3:R:34:TYR:HB3	1.86	0.56
4:F:420:VAL:O	4:F:424:LEU:N	2.37	0.56
4:F:3586:LYS:O	4:F:3590:ASN:ND2	2.38	0.56
5:G:165:ARG:HD2	5:G:201:ASP:HB2	1.87	0.56
5:G:470:ARG:HH22	6:H:347:LYS:HD3	1.70	0.56
6:H:441:SER:HB3	6:H:444:TYR:HB2	1.87	0.56
4:A:913:ARG:NH1	4:A:913:ARG:O	2.36	0.56
4:A:960:GLN:O	4:A:964:ARG:HG2	2.06	0.56
4:A:974:CYS:HB2	4:A:1025:LEU:HD13	1.86	0.56
4:A:1071:ASN:HD22	4:A:1074:LYS:HG3	1.70	0.56
4:A:3775:LEU:HD21	4:A:3913:ILE:HD13	1.86	0.56
4:A:3821:SER:OG	4:A:3822:GLN:OE1	2.24	0.56
5:B:297:LYS:N	6:C:296:CYS:O	2.33	0.56
5:B:439:PHE:HD2	6:C:269:GLN:HA	1.70	0.56
4:S:424:LEU:HD21	4:S:428:PRO:HD3	1.88	0.56
4:S:1343:GLU:HG3	4:S:1398:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2746:LYS:HA	8:W:13:DA:H1'	1.87	0.56
4:S:4056:PRO:HG3	4:S:4103:GLN:O	2.05	0.56
5:T:426:GLN:NE2	5:T:427:VAL:O	2.32	0.56
6:U:513:TRP:O	6:U:517:ASN:ND2	2.37	0.56
2:M:905:GLU:OE1	2:M:908:GLN:NE2	2.39	0.56
1:N:17:THR:H	1:O:124:ARG:HE	1.54	0.56
1:N:137:ASN:HB3	1:O:137:ASN:HB2	1.86	0.56
4:F:38:LEU:HD22	4:F:85:ILE:HG13	1.88	0.56
4:F:1590:THR:HA	4:F:1593:VAL:HG22	1.87	0.56
4:F:1802:TYR:O	4:F:1805:PHE:HB3	2.05	0.56
4:F:1836:LEU:HD21	4:F:1883:ARG:HG3	1.87	0.56
4:F:2410:GLU:O	4:F:2414:GLN:NE2	2.39	0.56
4:F:3719:ILE:HA	4:F:3742:GLY:HA2	1.87	0.56
4:A:62:ASP:O	4:A:65:LEU:HG	2.06	0.56
4:A:631:ARG:HD2	4:A:668:LYS:HG2	1.87	0.56
4:A:637:LYS:NZ	4:A:638:GLN:O	2.37	0.56
4:A:1056:THR:HA	4:A:1059:LEU:HD23	1.86	0.56
4:A:3168:TYR:HD2	4:A:3241:LYS:HG3	1.68	0.56
4:A:3765:GLU:HB3	4:A:3792:SER:HA	1.87	0.56
5:B:367:PHE:HE1	5:B:416:GLN:HB3	1.71	0.56
6:C:165:LEU:HD13	6:C:205:LEU:HD13	1.86	0.56
4:S:1083:ASN:HA	4:S:1133:HIS:CD2	2.40	0.56
4:S:1805:PHE:HE1	4:S:1817:GLN:HA	1.71	0.56
4:S:2227:LYS:O	4:S:2228:ARG:HG2	2.05	0.56
4:S:3531:TYR:O	4:S:3535:ILE:HB	2.05	0.56
5:T:394:VAL:HB	6:U:462:SER:HB3	1.87	0.56
1:K:157:ASP:O	1:K:161:ARG:HG2	2.05	0.56
1:N:18:HIS:HB3	1:N:36:LEU:HD11	1.88	0.56
4:F:630:CYS:HA	4:F:633:ILE:HB	1.87	0.56
4:F:631:ARG:HH11	4:F:668:LYS:HG2	1.71	0.56
4:F:861:SER:N	4:F:3136:THR:HG21	2.21	0.56
4:F:893:SER:HB2	4:F:906:PHE:CD2	2.41	0.56
4:F:1946:ASN:HA	4:F:1949:ILE:HD12	1.86	0.56
4:F:3183:ILE:HD12	4:F:3238:MET:HB3	1.88	0.56
4:F:3962:ARG:NH1	4:F:4124:TRP:O	2.39	0.56
5:G:106:GLN:NE2	5:G:109:ASP:OD1	2.38	0.56
6:H:17:GLY:HA2	6:H:104:GLN:HA	1.88	0.56
6:H:613:SER:O	6:H:616:LEU:HG	2.06	0.56
6:H:652:GLU:HB3	6:H:690:GLU:HA	1.86	0.56
7:I:31:DA:H4'	7:I:32:DA:C8	2.40	0.56
4:A:491:CYS:HB2	4:A:579:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:923:ASP:O	4:A:926:THR:OG1	2.21	0.56
4:A:1400:VAL:HG12	4:A:1404:LYS:NZ	2.20	0.56
4:A:1763:THR:HG23	4:A:1766:LEU:HD23	1.87	0.56
4:A:3763:ARG:NH2	4:A:4010:SER:OG	2.25	0.56
4:A:4056:PRO:HD2	4:A:4098:LEU:HB2	1.88	0.56
5:B:376:ILE:H	6:C:540:ILE:HG12	1.71	0.56
6:C:28:GLU:OE1	6:C:33:GLN:NE2	2.38	0.56
6:C:115:MET:HB2	6:C:153:SER:HB2	1.87	0.56
4:S:993:HIS:HD1	4:S:1039:TRP:HE1	1.53	0.56
4:S:2396:LEU:O	4:S:2400:VAL:HG23	2.05	0.56
4:S:3122:HIS:HA	4:S:3125:ARG:HB3	1.87	0.56
4:S:3254:LEU:HD22	4:S:3283:LEU:N	2.21	0.56
4:S:3758:LEU:H	4:S:3795:PRO:HB3	1.71	0.56
5:T:50:GLU:O	5:T:59:PRO:HD3	2.04	0.56
5:T:328:ILE:HD12	6:U:279:VAL:HG21	1.87	0.56
6:U:247:TRP:NE1	6:U:338:LYS:HG3	2.19	0.56
1:K:165:CYS:SG	2:M:898:ILE:HD13	2.46	0.56
2:M:800:GLU:O	2:M:805:TRP:N	2.38	0.56
4:F:913:ARG:O	4:F:917:LEU:HG	2.06	0.56
4:F:1048:GLN:HA	4:F:1051:LYS:HG2	1.87	0.56
4:F:1082:PHE:HA	4:F:1085:ILE:HG12	1.87	0.56
4:F:2398:LEU:HB3	4:F:2434:VAL:HG21	1.88	0.56
4:F:3246:ALA:O	4:F:3251:ASN:ND2	2.35	0.56
4:F:3277:VAL:HA	4:F:3306:LEU:HG	1.88	0.56
4:A:162:LEU:HA	5:B:301:ARG:HD2	1.88	0.56
4:A:624:ILE:O	4:A:668:LYS:NZ	2.36	0.56
4:A:1372:LEU:HD13	4:A:1402:LEU:HD12	1.88	0.56
4:A:1848:ILE:HG23	4:A:1915:LEU:HD21	1.87	0.56
4:A:2269:ASP:HB2	4:A:2309:PHE:HB3	1.88	0.56
4:A:2477:LEU:HD22	4:A:2505:VAL:HG21	1.88	0.56
5:B:488:ARG:O	5:B:500:PRO:HG3	2.05	0.56
6:C:86:PRO:HA	6:C:90:LEU:HD23	1.87	0.56
4:S:334:HIS:HB3	4:S:376:ILE:HG12	1.88	0.56
4:S:1673:THR:HA	4:S:1676:ILE:HD12	1.88	0.56
4:S:1751:GLU:HG2	4:S:1788:ARG:HH11	1.70	0.56
4:S:1771:GLN:OE1	4:S:1775:GLU:N	2.38	0.56
4:S:3480:LEU:O	4:S:3484:THR:HG23	2.06	0.56
4:S:3604:LYS:NZ	4:S:3605:ASN:OD1	2.39	0.56
4:S:3739:ILE:HG23	4:S:3748:HIS:H	1.70	0.56
5:T:397:LEU:HD12	5:T:398:CYS:H	1.71	0.56
6:U:238:LYS:O	6:U:240:ILE:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:426:PHE:HB2	6:U:428:GLU:HG2	1.88	0.56
1:K:139:ALA:C	1:K:141:ASN:H	2.09	0.56
2:M:666:VAL:HG22	2:M:701:ILE:HB	1.86	0.56
2:M:837:ARG:HB2	2:M:841:LYS:HZ3	1.70	0.56
4:F:731:THR:HG23	4:F:768:VAL:HG21	1.88	0.56
4:F:910:PHE:CE1	4:F:2807:GLN:HB2	2.41	0.56
4:F:2233:HIS:HB2	4:F:2731:ARG:NE	2.21	0.56
4:F:3880:ALA:HB2	4:F:3965:ARG:HH22	1.71	0.56
5:G:318:ARG:O	5:G:329:LEU:N	2.30	0.56
6:H:39:THR:HA	6:H:42:VAL:HG12	1.88	0.56
6:H:531:SER:HA	6:H:534:LYS:HG2	1.87	0.56
6:H:644:GLU:HA	6:H:647:ILE:HD12	1.86	0.56
4:A:200:PHE:CE2	4:A:227:LEU:HD22	2.39	0.56
4:A:243:GLN:HG3	4:A:282:PHE:HA	1.87	0.56
4:A:254:LYS:HD2	4:A:272:LEU:HD23	1.88	0.56
4:A:3154:GLN:HG3	4:A:3157:LEU:HD23	1.88	0.56
4:A:3168:TYR:HE1	4:A:3186:ARG:HD3	1.71	0.56
5:B:48:MET:O	5:B:60:PHE:N	2.35	0.56
5:B:297:LYS:NZ	6:C:301:ASP:OD2	2.26	0.56
4:S:1822:ARG:NH2	6:U:625:ASP:OD2	2.39	0.56
4:S:2253:TYR:HB2	4:S:2291:GLN:NE2	2.21	0.56
4:S:2930:TYR:HE1	4:S:3898:LEU:HD11	1.69	0.56
4:S:3090:TYR:CZ	4:S:3098:ARG:HD3	2.40	0.56
4:S:3230:LEU:O	4:S:3233:SER:OG	2.20	0.56
4:S:3531:TYR:HA	4:S:3535:ILE:HD12	1.88	0.56
8:W:20:DT:H2"	8:W:21:DA:C8	2.41	0.56
2:M:864:ILE:HA	2:M:889:LEU:O	2.06	0.56
4:F:279:ALA:HA	4:F:282:PHE:CD2	2.41	0.56
4:F:1575:LEU:HD21	4:F:1618:LEU:HA	1.87	0.56
4:F:2142:ILE:O	4:F:2146:LEU:HG	2.05	0.56
4:F:3114:TYR:HA	4:F:3128:LYS:HZ3	1.71	0.56
4:F:3361:GLU:HA	4:F:3368:GLU:HG3	1.87	0.56
4:F:3575:LEU:HD12	4:F:3681:LYS:N	2.20	0.56
6:H:57:VAL:HB	6:H:77:ILE:HG23	1.87	0.56
6:H:250:ARG:HG2	6:H:260:ARG:HG2	1.87	0.56
6:H:488:GLN:HG2	6:H:512:ILE:HG12	1.88	0.56
6:H:604:GLN:HG3	6:H:605:LYS:HG3	1.87	0.56
4:A:40:GLN:HE22	4:A:2427:ARG:HD3	1.71	0.56
4:A:1377:CYS:HA	4:A:1454:ALA:HB2	1.88	0.56
4:A:1834:ASP:OD1	4:A:1835:ALA:N	2.39	0.56
4:A:2494:ASP:O	4:A:2498:ILE:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3593:ARG:NH1	4:A:3664:ASN:OD1	2.39	0.56
5:B:168:LEU:HD12	5:B:169:PHE:H	1.71	0.56
4:S:63:PHE:O	4:S:67:VAL:HG22	2.05	0.56
4:S:79:ARG:O	4:S:126:PRO:HG3	2.05	0.56
4:S:1061:LYS:HG2	4:S:1152:ARG:HH11	1.71	0.56
4:S:1373:VAL:HG21	4:S:1419:LEU:HA	1.88	0.56
4:S:2164:TRP:O	4:S:2168:LEU:N	2.37	0.56
4:S:2328:ARG:HA	4:S:2333:ARG:NH2	2.21	0.56
4:S:2436:LEU:HD13	4:S:2472:GLN:HB2	1.88	0.56
4:S:3958:LEU:HB3	4:S:4115:ASN:HB2	1.88	0.56
6:U:52:ASP:OD1	6:U:53:GLU:N	2.39	0.56
6:U:127:PHE:HB2	6:U:130:ARG:HH11	1.71	0.56
6:U:188:HIS:CE1	6:U:232:ARG:HG3	2.41	0.56
3:Q:4:LEU:HA	3:Q:28:PHE:HE2	1.71	0.55
4:F:71:LYS:HB2	4:F:82:ARG:CZ	2.36	0.55
4:F:2950:LYS:HE3	4:F:2984:GLY:HA2	1.88	0.55
4:F:4054:ALA:HA	4:F:4096:SER:HA	1.86	0.55
6:H:30:PRO:HA	6:H:33:GLN:HE21	1.71	0.55
6:H:402:ASN:OD1	6:H:404:GLN:NE2	2.39	0.55
6:H:600:VAL:HA	6:H:603:LYS:HG2	1.88	0.55
4:A:61:ARG:HH22	4:A:106:GLU:HG2	1.70	0.55
4:A:1013:ILE:HA	4:A:1029:CYS:HB3	1.88	0.55
4:A:1786:ALA:HB2	4:A:1827:LEU:HD12	1.87	0.55
4:S:4056:PRO:HA	4:S:4059:ILE:HB	1.88	0.55
5:T:320:GLN:HB2	5:T:327:ILE:HB	1.88	0.55
6:U:460:SER:HB2	6:U:525:LYS:HG3	1.88	0.55
6:U:679:VAL:HA	6:U:705:LEU:HG	1.88	0.55
3:X:211:VAL:HG23	3:X:212:MET:H	1.71	0.55
3:Y:7:GLY:HA2	3:Y:10:MET:HG3	1.87	0.55
4:F:542:ASP:OD1	4:F:543:SER:N	2.38	0.55
4:F:2510:LEU:HD13	4:F:2525:TRP:CD1	2.42	0.55
4:F:3558:ILE:O	4:F:3562:LEU:N	2.37	0.55
5:G:471:PHE:HA	5:G:517:ARG:HH12	1.72	0.55
4:A:1763:THR:HA	4:A:1766:LEU:HB3	1.89	0.55
4:A:3337:ILE:HD13	4:A:3360:LEU:HD13	1.88	0.55
5:B:239:LEU:HD23	5:B:239:LEU:H	1.72	0.55
4:S:79:ARG:HD3	4:S:126:PRO:HG2	1.89	0.55
4:S:198:ARG:HH22	5:T:312:LEU:H	1.55	0.55
4:S:1574:ASN:OD1	4:S:1578:ALA:N	2.34	0.55
4:S:2264:ASP:HB3	4:S:2309:PHE:CZ	2.41	0.55
4:S:2491:THR:O	4:S:2496:GLN:NE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2582:SER:HB3	4:S:2780:LEU:HD13	1.89	0.55
6:U:447:THR:H	6:U:450:GLN:HB2	1.71	0.55
3:X:213:ASN:OD1	3:Y:147:GLN:NE2	2.38	0.55
1:K:158:VAL:HG12	1:L:158:VAL:HG22	1.89	0.55
2:M:821:ASP:OD2	2:M:871:ARG:NH1	2.39	0.55
2:P:819:TYR:N	2:P:862:HIS:O	2.30	0.55
3:Q:45:TRP:CH2	3:Q:104:LEU:HD13	2.41	0.55
4:F:704:PHE:HA	4:F:707:PHE:CD2	2.41	0.55
4:F:1249:SER:OG	4:F:1312:CYS:SG	2.60	0.55
4:F:1365:ASN:O	4:F:1370:ARG:NH2	2.34	0.55
4:F:2504:ASP:OD1	4:F:2508:GLN:NE2	2.38	0.55
4:F:2976:LEU:O	4:F:2979:GLN:NE2	2.26	0.55
6:H:362:LEU:O	6:H:421:TYR:N	2.37	0.55
4:A:206:THR:HG23	5:B:332:GLU:HB2	1.88	0.55
4:A:699:GLU:HB3	4:A:1442:GLN:HG2	1.88	0.55
4:A:998:ASN:HB3	4:A:1044:ILE:HG13	1.87	0.55
4:A:1646:LEU:HD23	4:A:1688:LEU:HG	1.87	0.55
5:B:35:ARG:N	5:B:162:SER:H	2.04	0.55
4:S:1078:ALA:CB	4:S:1128:CYS:HB2	2.37	0.55
4:S:1407:LYS:HA	4:S:1412:LYS:HB3	1.89	0.55
4:S:2164:TRP:O	4:S:2168:LEU:HG	2.07	0.55
4:S:2923:TRP:HB3	4:S:2947:ILE:HG13	1.88	0.55
4:S:3415:THR:O	4:S:3419:PHE:HB2	2.06	0.55
4:S:3462:ARG:NH2	4:S:3498:TRP:H	2.03	0.55
4:S:3638:LYS:O	4:S:3642:LYS:HG2	2.06	0.55
4:S:3866:GLU:O	4:S:3870:SER:OG	2.23	0.55
4:S:3954:PRO:HA	4:S:4071:ALA:N	2.21	0.55
5:T:52:GLN:CD	5:T:59:PRO:HG3	2.27	0.55
5:T:410:PHE:HB3	6:U:477:PHE:HE1	1.71	0.55
6:U:405:VAL:O	6:U:424:LEU:N	2.34	0.55
7:V:21:DA:H1'	8:W:36:DG:H1'	1.88	0.55
1:L:97:PHE:O	1:L:107:ARG:NH1	2.38	0.55
1:N:194:LEU:HB3	1:O:194:LEU:HB3	1.88	0.55
2:P:777:VAL:O	2:P:781:ILE:HG13	2.06	0.55
2:P:848:HIS:HE1	2:P:898:ILE:HD13	1.70	0.55
4:F:175:TYR:HD1	4:F:225:LYS:HB3	1.69	0.55
4:F:345:PHE:HA	4:F:348:ILE:HG12	1.87	0.55
4:F:864:GLY:N	4:F:3168:TYR:O	2.39	0.55
4:F:1424:THR:HB	4:F:1426:GLN:NE2	2.21	0.55
4:F:2196:TRP:CD1	4:F:2200:ALA:HB3	2.42	0.55
4:F:2346:ALA:HA	4:F:2349:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2792:THR:O	4:F:2795:GLN:HG2	2.06	0.55
4:F:2840:PHE:CD2	4:F:2858:ILE:HG23	2.42	0.55
4:F:3621:LYS:HA	4:F:3630:ARG:HD2	1.88	0.55
5:G:262:LYS:NZ	5:G:344:GLY:HA3	2.20	0.55
5:G:412:ALA:N	5:G:435:VAL:O	2.38	0.55
4:A:1818:SER:HB2	4:A:1822:ARG:HG3	1.88	0.55
4:A:2325:LEU:HD23	4:A:2328:ARG:HH12	1.71	0.55
4:A:3151:LEU:HD12	4:A:3193:ILE:HA	1.87	0.55
4:A:3361:GLU:N	4:A:3361:GLU:OE1	2.39	0.55
5:B:443:LYS:NZ	6:C:361:VAL:O	2.29	0.55
6:C:47:PHE:CZ	6:C:495:LEU:HB2	2.41	0.55
4:S:1838:GLU:O	4:S:1841:SER:OG	2.23	0.55
4:S:2898:LEU:HD12	4:S:2901:LEU:HD21	1.88	0.55
5:T:122:PHE:HB3	5:T:131:PHE:HE1	1.71	0.55
6:U:38:ILE:HA	6:U:41:PHE:HB3	1.89	0.55
6:U:198:THR:HG22	6:U:200:GLN:H	1.71	0.55
1:K:18:HIS:HE2	1:K:43:TRP:HE3	1.55	0.55
2:M:767:ILE:HG21	2:M:773:GLN:HE22	1.71	0.55
4:F:977:ASP:OD1	4:F:978:GLN:N	2.40	0.55
4:F:1675:TYR:O	4:F:1679:LEU:HG	2.06	0.55
4:F:2876:VAL:HG11	4:F:2892:LEU:HD23	1.88	0.55
4:F:3188:PHE:O	4:F:3192:LYS:HG2	2.05	0.55
4:F:3571:PHE:HD1	4:F:3685:PRO:O	1.89	0.55
6:H:357:MET:N	6:H:357:MET:SD	2.80	0.55
4:A:1082:PHE:HE2	4:A:1133:HIS:HB2	1.72	0.55
4:A:1724:MET:O	4:A:1772:HIS:ND1	2.39	0.55
4:A:2543:ASN:O	4:A:2842:ARG:NH2	2.25	0.55
4:A:3530:VAL:HG23	4:A:3531:TYR:H	1.71	0.55
4:A:3759:ARG:HD2	4:A:4010:SER:HB2	1.88	0.55
4:S:153:PHE:HE2	4:S:188:GLU:HB3	1.70	0.55
4:S:2138:VAL:HG21	4:S:2146:LEU:HD11	1.87	0.55
4:S:2328:ARG:O	4:S:2333:ARG:NE	2.40	0.55
4:S:3486:GLU:HA	4:S:3514:VAL:HA	1.88	0.55
4:S:3576:ASP:HA	4:S:3800:LEU:HD22	1.88	0.55
5:T:297:LYS:N	6:U:296:CYS:O	2.39	0.55
5:T:387:ILE:HG23	6:U:438:LEU:HD23	1.86	0.55
5:T:500:PRO:HB2	5:T:502:GLN:OE1	2.05	0.55
6:U:46:VAL:HB	6:U:234:LEU:HD23	1.89	0.55
1:K:151:LEU:HD22	1:L:152:LEU:HA	1.88	0.55
1:L:5:ILE:HG23	1:L:19:PHE:HB3	1.88	0.55
2:P:863:VAL:HG23	2:P:888:ILE:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:745:VAL:HG23	4:F:746:ARG:HD2	1.86	0.55
4:F:1264:LEU:HA	4:F:1267:TYR:HD2	1.72	0.55
4:F:1534:ASN:HB2	4:F:1556:GLY:H	1.71	0.55
4:F:1626:TRP:HZ2	4:F:1633:TRP:HD1	1.54	0.55
4:F:1677:SER:O	4:F:1681:ASP:N	2.37	0.55
4:F:2950:LYS:HG3	4:F:2994:TRP:CZ2	2.42	0.55
4:F:3998:LEU:HA	4:F:4001:THR:HG22	1.89	0.55
6:H:340:PHE:HZ	6:H:408:ALA:HB2	1.71	0.55
4:A:913:ARG:HB3	4:A:2804:ILE:HD11	1.89	0.55
4:A:2219:LEU:O	4:A:2223:VAL:N	2.40	0.55
5:B:435:VAL:HA	6:C:353:ARG:HD2	1.89	0.55
4:S:197:PHE:HE2	4:S:243:GLN:HE22	1.53	0.55
4:S:323:VAL:O	4:S:327:VAL:HB	2.05	0.55
4:S:932:GLU:HG3	4:S:2775:TYR:CE2	2.41	0.55
4:S:1564:SER:O	4:S:1568:ASN:ND2	2.40	0.55
5:T:485:GLN:HA	5:T:488:ARG:HG2	1.88	0.55
1:L:160:GLY:O	1:L:164:LYS:HG2	2.06	0.55
1:N:27:THR:HG21	1:N:30:SER:HB3	1.89	0.55
3:Q:167:TYR:CD2	3:R:167:TYR:HB3	2.42	0.55
4:F:32:HIS:HA	4:F:35:ILE:HG22	1.89	0.55
4:F:833:HIS:HB3	4:F:838:LYS:HZ2	1.70	0.55
4:F:847:SER:N	4:F:850:GLU:OE2	2.40	0.55
4:F:1227:GLY:O	4:F:1292:LYS:NZ	2.35	0.55
4:F:3266:SER:HA	4:F:3272:TRP:HB3	1.89	0.55
6:H:9:ALA:HB2	6:H:127:PHE:HB3	1.88	0.55
4:A:243:GLN:HA	4:A:282:PHE:HD1	1.71	0.55
4:A:656:GLN:O	4:A:660:LEU:N	2.32	0.55
4:A:2157:PHE:HB3	4:A:2164:TRP:CD1	2.41	0.55
4:A:2484:TYR:O	4:A:2489:SER:OG	2.24	0.55
4:A:2546:TYR:N	4:A:2842:ARG:HH22	2.03	0.55
5:B:247:ARG:NH1	5:B:491:GLU:OE1	2.35	0.55
9:D:40:DT:H5"	9:D:41:DT:N3	2.20	0.55
4:S:979:VAL:HG22	4:S:983:LEU:HD23	1.88	0.55
4:S:1711:ARG:NH1	4:S:1757:MET:HG2	2.22	0.55
4:S:1797:LEU:O	4:S:1801:VAL:HG22	2.06	0.55
4:S:2815:GLY:HA2	4:S:2818:LYS:HZ2	1.71	0.55
5:T:403:ARG:CZ	5:T:406:ILE:HD13	2.36	0.55
1:O:193:SER:HA	1:O:196:ASN:HD22	1.71	0.55
3:Q:43:GLN:HG3	3:R:128:PRO:HB2	1.87	0.55
3:R:8:LEU:HD22	3:R:35:ALA:HB1	1.89	0.55
3:R:16:LEU:HD13	3:R:25:ALA:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:278:HIS:HB3	4:F:281:GLN:HB2	1.88	0.55
4:F:1760:GLU:HG2	4:F:1761:LEU:N	2.20	0.55
4:F:2506:LEU:HB3	4:F:2525:TRP:CZ2	2.42	0.55
5:G:238:LYS:O	5:G:242:LEU:HG	2.07	0.55
5:G:246:VAL:HB	5:G:249:LYS:HZ1	1.70	0.55
5:G:353:LEU:N	5:G:393:GLU:O	2.40	0.55
6:H:88:PHE:O	6:H:92:GLU:HG2	2.06	0.55
4:A:213:ARG:HH22	9:D:31:DA:P	2.30	0.55
4:A:1270:PHE:HB3	4:A:1276:VAL:HG12	1.89	0.55
4:A:1844:VAL:O	4:A:1848:ILE:HG12	2.07	0.55
4:A:2839:ASP:O	4:A:2842:ARG:HG2	2.07	0.55
4:A:3046:ARG:NH2	4:A:3180:ASP:OD2	2.39	0.55
4:A:3669:LYS:HA	4:A:3672:LYS:HD2	1.88	0.55
5:B:337:LEU:HD21	6:C:490:LEU:HB2	1.87	0.55
5:B:533:ASP:HA	6:C:373:ALA:HB2	1.87	0.55
4:S:865:GLN:HB2	4:S:3168:TYR:HB3	1.89	0.55
4:S:1377:CYS:SG	4:S:1378:GLU:N	2.79	0.55
4:S:2738:LYS:NZ	7:V:44:DG:OP1	2.39	0.55
4:S:3090:TYR:HB2	4:S:3099:ALA:HB2	1.89	0.55
4:S:4055:ASN:HB2	4:S:4095:GLU:HA	1.87	0.55
5:T:489:ASN:HB3	6:U:331:MET:HG3	1.89	0.55
6:U:49:GLU:CB	6:U:238:LYS:HE3	2.30	0.55
1:L:93:CYS:HB3	1:L:113:LEU:O	2.07	0.55
1:L:178:LYS:NZ	2:M:787:GLN:H	2.05	0.55
3:Q:140:MET:HG3	3:R:41:LEU:HD22	1.89	0.55
3:R:153:LEU:HD23	3:R:156:LEU:HD12	1.89	0.55
4:F:93:LEU:HD21	4:F:136:GLN:HB3	1.88	0.55
4:F:1420:ARG:O	4:F:1424:THR:OG1	2.23	0.55
4:F:1597:LEU:O	4:F:1601:LEU:HG	2.07	0.55
4:F:1626:TRP:HZ2	4:F:1633:TRP:CD1	2.25	0.55
4:F:2165:LEU:HD12	4:F:2200:ALA:HB1	1.89	0.55
4:F:2366:LYS:HA	4:F:2369:LYS:HZ3	1.72	0.55
4:F:2562:LEU:HD21	4:F:2812:LEU:HD22	1.89	0.55
5:G:67:ILE:HA	5:G:70:VAL:HG22	1.89	0.55
6:H:87:ASP:H	6:H:90:LEU:HB2	1.71	0.55
4:A:978:GLN:O	4:A:982:GLN:HB2	2.07	0.55
4:A:2480:ILE:O	4:A:2485:ARG:N	2.39	0.55
4:A:3528:ALA:O	4:A:3702:PRO:HA	2.07	0.55
4:S:756:PHE:CE1	4:S:769:GLY:HA3	2.41	0.55
4:S:785:MET:HA	4:S:788:TYR:CE1	2.42	0.55
4:S:1083:ASN:OD1	4:S:1133:HIS:NE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1147:LYS:HZ3	4:S:1149:LYS:HD3	1.72	0.55
4:S:1862:THR:N	4:S:1864:ASP:OD1	2.39	0.55
4:S:3162:ASN:ND2	4:S:3234:CYS:SG	2.80	0.55
1:K:124:ARG:HA	1:K:127:ILE:HG12	1.89	0.55
4:F:246:ARG:HA	4:F:249:PHE:CD2	2.42	0.55
4:F:1709:GLU:HB2	4:F:1712:ARG:HH22	1.72	0.55
4:F:2579:HIS:NE2	4:A:944:LYS:O	2.40	0.55
4:F:2851:PHE:HB3	4:F:2854:PHE:HB3	1.88	0.55
4:A:317:GLU:HA	4:A:320:LEU:HD12	1.89	0.55
4:A:3315:TYR:HB2	4:A:3326:GLN:NE2	2.22	0.55
5:B:271:VAL:HG21	5:B:345:LEU:HD13	1.87	0.55
5:B:442:ASP:HB3	6:C:268:LEU:HD23	1.89	0.55
6:C:527:GLN:O	6:C:531:SER:N	2.36	0.55
4:S:114:VAL:HG13	4:S:119:ARG:HH21	1.72	0.55
4:S:643:GLU:O	4:S:646:VAL:HG22	2.07	0.55
4:S:1267:TYR:O	4:S:1271:ILE:HG12	2.07	0.55
4:S:1423:ILE:HG13	4:S:1425:ALA:H	1.72	0.55
4:S:2311:ARG:HB3	4:S:2315:VAL:HG21	1.88	0.55
4:S:3951:GLN:HB2	4:S:4067:GLY:H	1.70	0.55
5:T:52:GLN:HG3	5:T:62:MET:CE	2.36	0.55
2:M:682:ILE:O	2:M:687:GLY:N	2.40	0.54
2:M:833:ASN:HB3	2:M:836:THR:HG21	1.89	0.54
3:R:37:LEU:HD12	3:R:45:TRP:O	2.07	0.54
4:F:82:ARG:HG2	4:F:85:ILE:HD12	1.89	0.54
4:F:647:TYR:CE1	4:F:703:CYS:HB2	2.43	0.54
4:F:1073:PHE:HA	4:F:1076:LEU:HG	1.89	0.54
4:F:1099:PHE:CE2	4:F:1152:ARG:HD3	2.42	0.54
4:F:1795:VAL:O	4:F:1799:GLU:HG2	2.08	0.54
4:F:2595:TRP:HE3	4:F:2765:GLN:HB2	1.72	0.54
4:F:3265:GLU:C	4:F:3272:TRP:HD1	2.11	0.54
4:F:3523:ASP:HB2	4:F:3561:LYS:HD3	1.89	0.54
4:F:3826:ALA:O	4:F:3830:SER:HB3	2.08	0.54
5:G:92:LYS:HG2	5:G:135:MET:HG2	1.89	0.54
5:G:174:ASN:HA	5:G:217:TYR:HD2	1.71	0.54
4:A:14:ARG:HH21	4:A:17:GLU:HG3	1.72	0.54
4:A:200:PHE:HZ	4:A:227:LEU:HD13	1.72	0.54
4:A:1475:LEU:HD22	4:A:1527:ARG:HG3	1.89	0.54
4:A:1704:GLY:HA2	4:A:1707:LEU:HG	1.89	0.54
5:B:73:SER:HA	5:B:247:ARG:HD2	1.87	0.54
5:B:303:PHE:HA	5:B:310:LEU:HA	1.90	0.54
5:B:321:ILE:HA	5:B:326:GLN:HA	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:215:LEU:HG	6:C:216:GLU:HG3	1.88	0.54
9:D:26:DA:H4'	9:D:27:DC:H5'	1.89	0.54
4:S:468:LEU:HA	4:S:471:LYS:HE2	1.88	0.54
4:S:992:ILE:HG23	4:S:1036:PHE:HA	1.89	0.54
4:S:1359:LEU:HA	4:S:1362:ASP:HB2	1.89	0.54
4:S:1779:GLN:HA	4:S:1782:PHE:HB2	1.89	0.54
4:S:1783:ARG:HA	4:S:1783:ARG:NH1	2.22	0.54
4:S:1881:TYR:CE1	4:S:1953:CYS:HB2	2.41	0.54
4:S:1960:LYS:O	4:S:1962:TYR:N	2.40	0.54
4:S:2101:VAL:HG11	4:S:2153:THR:HG22	1.88	0.54
4:S:2357:GLU:HA	4:S:2360:PHE:HB3	1.87	0.54
5:T:170:THR:O	5:T:205:LEU:HB3	2.06	0.54
5:T:288:LEU:HD12	6:U:322:PRO:HB3	1.88	0.54
3:X:221:VAL:HG13	3:X:222:THR:HG22	1.87	0.54
2:M:725:TRP:O	2:M:728:GLU:HG2	2.08	0.54
1:O:52:ILE:O	1:O:63:LYS:NZ	2.39	0.54
4:F:799:TYR:O	4:F:852:ARG:NH1	2.38	0.54
4:F:863:GLY:HA2	4:F:3167:ARG:O	2.07	0.54
4:F:992:ILE:HG13	4:F:1036:PHE:CD1	2.43	0.54
4:F:1304:HIS:HE1	4:F:1307:ILE:HG22	1.72	0.54
4:F:2154:GLU:HA	4:F:2157:PHE:CZ	2.42	0.54
4:F:2524:PHE:O	4:F:2530:ARG:NE	2.39	0.54
4:F:3413:TYR:HE1	4:F:3449:LYS:HZ2	1.54	0.54
4:F:3913:ILE:HD13	4:F:4107:LEU:HD22	1.90	0.54
6:H:307:LYS:HA	6:H:310:ILE:HB	1.88	0.54
4:A:785:MET:HA	4:A:788:TYR:HB2	1.89	0.54
4:A:2356:MET:CE	4:A:2359:LYS:HB2	2.37	0.54
4:A:2507:ILE:HA	4:A:2510:LEU:HD23	1.88	0.54
4:A:2512:ASP:HB2	4:A:2518:GLN:HB3	1.90	0.54
4:A:3708:ARG:HD2	4:A:3789:ARG:HG3	1.88	0.54
6:C:345:PHE:HB3	6:C:389:MET:HG3	1.89	0.54
4:S:672:ILE:O	4:S:676:ASN:ND2	2.40	0.54
4:S:1167:ASP:OD1	4:S:1170:LYS:NZ	2.38	0.54
4:S:1750:LEU:HD22	4:S:1762:MET:HE3	1.88	0.54
4:S:2260:PHE:CD1	4:S:2303:LEU:HD21	2.43	0.54
4:S:2833:THR:HG21	4:S:2867:ALA:HB1	1.88	0.54
6:U:9:ALA:HB3	6:U:130:ARG:HA	1.87	0.54
8:W:18:DA:H2''	8:W:19:DA:C8	2.43	0.54
1:L:169:LYS:NZ	2:M:847:PHE:O	2.26	0.54
2:M:719:ASP:HA	2:M:746:MET:HA	1.90	0.54
2:M:844:GLU:HA	2:M:898:ILE:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:896:ASP:HB3	2:M:900:LYS:HE2	1.90	0.54
2:P:668:SER:HB3	2:P:702:ALA:HA	1.88	0.54
3:Q:13:TRP:CE2	3:Q:26:LYS:HD3	2.41	0.54
4:F:112:THR:HG21	4:F:152:LEU:HD22	1.89	0.54
4:F:1069:HIS:HB3	4:F:1074:LYS:CE	2.38	0.54
4:F:2723:THR:HA	4:F:2726:LEU:HD13	1.89	0.54
4:F:3036:TYR:O	4:F:3039:THR:OG1	2.21	0.54
6:H:11:VAL:HA	6:H:55:ALA:HB3	1.89	0.54
4:A:1658:SER:H	4:A:1698:PHE:HE2	1.56	0.54
4:A:2253:TYR:HD1	4:A:2256:ILE:HD11	1.72	0.54
4:A:3232:ARG:HB3	4:A:3272:TRP:CH2	2.42	0.54
4:A:3739:ILE:HA	4:A:3749:PRO:HA	1.90	0.54
4:A:3761:ASP:HA	4:A:3764:VAL:HB	1.89	0.54
5:B:418:GLU:HB3	5:B:430:PRO:HD3	1.88	0.54
6:C:197:ILE:HD12	6:C:202:LYS:HA	1.89	0.54
6:C:464:ALA:HA	6:C:476:LEU:H	1.72	0.54
4:S:537:SER:OG	4:S:561:ASN:ND2	2.28	0.54
4:S:864:GLY:N	4:S:3170:ASP:OD1	2.36	0.54
4:S:1349:LEU:HB2	4:S:1405:ALA:HB1	1.88	0.54
4:S:2995:GLU:O	4:S:2999:LEU:HG	2.07	0.54
4:S:3107:ILE:HA	4:S:3135:LEU:HD13	1.89	0.54
4:S:3418:ASP:OD2	4:S:3464:LYS:NZ	2.40	0.54
4:S:3736:LYS:HB2	4:S:3752:VAL:HB	1.89	0.54
4:S:3880:ALA:O	4:S:3885:ARG:NH2	2.40	0.54
5:T:57:LEU:HB2	5:T:62:MET:HB3	1.89	0.54
6:U:238:LYS:O	6:U:238:LYS:HG3	2.07	0.54
3:X:154:ALA:HB1	3:X:185:GLU:HA	1.89	0.54
1:K:21:GLN:O	1:K:35:THR:OG1	2.25	0.54
1:L:55:GLU:O	1:L:59:MET:HG2	2.08	0.54
1:O:183:VAL:O	1:O:187:LYS:HG2	2.06	0.54
3:R:149:GLN:HE22	3:R:217:LEU:HD21	1.71	0.54
4:F:146:GLU:N	4:F:146:GLU:OE1	2.40	0.54
4:F:200:PHE:HE1	4:F:224:LEU:HD23	1.73	0.54
4:F:1157:PHE:HE1	4:F:1171:TRP:HB2	1.71	0.54
4:F:1662:ASN:HB2	4:F:1699:PHE:HA	1.88	0.54
4:F:1805:PHE:HD2	4:F:1806:ARG:HH11	1.55	0.54
4:F:2268:LYS:HG3	4:F:2311:ARG:NH2	2.23	0.54
5:G:485:GLN:NE2	6:H:333:TYR:O	2.29	0.54
4:A:1817:GLN:OE1	4:A:1872:GLY:HA3	2.07	0.54
4:A:2091:HIS:O	4:A:2093:CYS:N	2.40	0.54
4:A:2349:LEU:HB3	4:A:2360:PHE:CE1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2449:VAL:O	4:A:2452:ARG:HD3	2.07	0.54
4:A:2514:ASN:OD1	4:A:2517:LEU:N	2.34	0.54
4:A:2886:GLN:HB3	4:A:2933:ILE:HD11	1.89	0.54
4:A:2933:ILE:HB	4:A:2935:GLU:OE1	2.08	0.54
4:A:3465:PHE:HA	4:A:3468:LEU:HB3	1.89	0.54
6:C:11:VAL:HB	6:C:118:ILE:HD11	1.89	0.54
4:S:2759:SER:O	4:S:2763:MET:HG2	2.07	0.54
4:S:3326:GLN:O	4:S:3330:LEU:N	2.41	0.54
5:T:318:ARG:NH1	5:T:331:LYS:HB2	2.22	0.54
5:T:335:GLU:HB3	5:T:405:ASN:HB2	1.89	0.54
6:U:405:VAL:HG23	6:U:424:LEU:HB2	1.88	0.54
3:Y:107:ARG:HB2	3:Y:109:ARG:HH11	1.73	0.54
1:N:57:ASP:HB3	3:Q:67:ALA:HB2	1.88	0.54
3:R:93:ALA:N	3:R:109:ARG:O	2.40	0.54
4:F:119:ARG:HD2	4:F:126:PRO:HB2	1.89	0.54
4:F:745:VAL:HA	4:F:748:TYR:CD2	2.43	0.54
4:F:894:PHE:HB2	4:F:907:LEU:HD11	1.88	0.54
4:F:898:PHE:HD2	4:F:903:PRO:HD2	1.73	0.54
4:F:1261:LEU:HG	4:F:1340:ARG:HG2	1.88	0.54
4:F:1481:THR:N	4:F:1527:ARG:HH22	2.03	0.54
4:F:1524:LEU:O	4:F:1528:LEU:HG	2.07	0.54
4:F:2986:PRO:O	4:F:2991:LYS:NZ	2.39	0.54
4:F:3034:PRO:O	4:F:3038:GLU:N	2.39	0.54
4:F:3575:LEU:HA	4:F:3681:LYS:O	2.07	0.54
4:F:3749:PRO:HB2	4:F:3805:TRP:CD1	2.43	0.54
5:G:67:ILE:HG13	5:G:119:LEU:HD21	1.90	0.54
5:G:90:THR:O	5:G:100:LYS:NZ	2.41	0.54
5:G:258:ARG:NH2	5:G:371:GLU:OE1	2.40	0.54
6:H:212:MET:HA	6:H:215:LEU:O	2.07	0.54
4:A:440:VAL:HG12	4:A:441:MET:HE3	1.89	0.54
4:A:2432:GLN:O	4:A:2436:LEU:HG	2.07	0.54
4:A:2577:PHE:HB2	4:A:2783:ILE:O	2.08	0.54
4:A:3281:CYS:O	4:A:3285:HIS:ND1	2.41	0.54
4:S:782:ARG:HA	4:S:785:MET:HE2	1.89	0.54
4:S:1130:ALA:O	4:S:1134:LEU:HG	2.07	0.54
4:S:1140:LYS:HD3	4:S:1141:LYS:HZ1	1.71	0.54
4:S:1331:ASN:ND2	4:S:1383:GLY:HA3	2.23	0.54
4:S:1649:LEU:HA	4:S:1652:ILE:HD12	1.89	0.54
4:S:2169:LEU:HD21	4:S:2211:LEU:HD12	1.88	0.54
4:S:2824:LYS:O	4:S:2829:LYS:NZ	2.39	0.54
4:S:3586:LYS:O	4:S:3591:ASP:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:33:GLN:HB2	6:U:227:PHE:CE1	2.41	0.54
6:U:686:ILE:HD12	6:U:702:LYS:HZ2	1.71	0.54
2:M:715:SER:OG	2:M:717:LYS:NZ	2.41	0.54
2:M:876:LYS:HE3	2:M:879:ARG:HH11	1.72	0.54
1:N:162:PHE:CE1	1:O:161:ARG:HB3	2.42	0.54
2:P:740:PRO:HD3	2:P:758:TYR:CE2	2.43	0.54
2:P:746:MET:O	2:P:751:LYS:NZ	2.41	0.54
4:F:389:ILE:HG21	4:F:431:TYR:CD1	2.40	0.54
4:F:410:MET:O	4:F:414:LEU:HG	2.08	0.54
4:F:712:LYS:NZ	4:F:748:TYR:OH	2.40	0.54
4:F:1577:LEU:H	4:F:1577:LEU:HD12	1.73	0.54
4:F:1876:ILE:HG13	4:F:1877:LEU:HG	1.89	0.54
4:F:2160:TYR:HD2	4:F:2164:TRP:NE1	2.06	0.54
4:F:2470:ARG:NH1	4:F:2513:GLU:OE1	2.41	0.54
4:A:895:ALA:HB2	4:A:904:VAL:HG22	1.90	0.54
4:A:1218:SER:O	4:A:1221:ILE:HG22	2.07	0.54
4:A:1579:VAL:HG22	4:A:1625:HIS:CE1	2.42	0.54
4:A:3090:TYR:HA	4:A:3093:GLN:HB2	1.89	0.54
4:A:3520:GLU:O	4:A:3524:ASN:HB2	2.08	0.54
6:C:130:ARG:HB3	6:C:159:ILE:HA	1.89	0.54
4:S:108:LYS:NZ	4:S:145:ASP:O	2.37	0.54
4:S:1153:LEU:HD12	4:S:1154:PRO:HD2	1.90	0.54
4:S:2477:LEU:HG	4:S:2505:VAL:HG11	1.90	0.54
4:S:2880:CYS:O	4:S:2885:GLN:N	2.40	0.54
4:S:3137:GLU:HA	4:S:3140:GLU:HB2	1.89	0.54
4:S:3497:SER:HA	4:S:3706:ASP:HA	1.89	0.54
5:T:319:SER:HA	5:T:327:ILE:O	2.08	0.54
6:U:10:VAL:HA	6:U:131:HIS:HB3	1.90	0.54
1:N:153:ARG:NH2	1:N:154:ASP:OD1	2.39	0.54
2:P:682:ILE:HB	2:P:689:ILE:HD11	1.89	0.54
3:Q:13:TRP:HB2	3:Q:211:VAL:HG12	1.90	0.54
3:R:75:HIS:CD2	3:R:85:LYS:HE2	2.43	0.54
4:F:935:HIS:NE2	4:F:987:LEU:HD13	2.23	0.54
4:F:2840:PHE:HA	4:F:2843:PHE:CD2	2.42	0.54
4:F:2950:LYS:HG3	4:F:2994:TRP:HZ2	1.72	0.54
4:F:3051:LEU:HD23	4:F:3054:GLN:NE2	2.23	0.54
6:H:456:ALA:O	6:H:461:MET:HE1	2.08	0.54
4:A:31:GLY:O	4:A:35:ILE:HG23	2.07	0.54
4:A:111:CYS:HB2	4:A:130:LEU:HD13	1.89	0.54
4:A:1841:SER:HA	4:A:1896:ILE:HG23	1.89	0.54
4:A:3530:VAL:CG2	4:A:3702:PRO:HB3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:344:GLN:HB3	4:S:366:TYR:HD1	1.73	0.54
4:S:562:HIS:NE2	4:S:644:PRO:HG2	2.22	0.54
4:S:1260:LEU:HD12	4:S:1264:LEU:HD13	1.89	0.54
4:S:2263:LYS:HE3	4:S:2265:PRO:HG3	1.90	0.54
4:S:3951:GLN:H	4:S:4068:HIS:N	2.05	0.54
5:T:44:ALA:HB3	5:T:89:GLY:O	2.08	0.54
5:T:327:ILE:HD11	6:U:494:LEU:HD23	1.90	0.54
6:U:38:ILE:HG13	6:U:94:ILE:HG21	1.89	0.54
2:P:800:GLU:HG2	2:P:805:TRP:HB2	1.89	0.54
2:P:896:ASP:O	2:P:902:GLU:N	2.35	0.54
4:F:162:LEU:HG	4:F:164:LYS:H	1.73	0.54
4:F:667:TYR:HH	4:F:710:PHE:HD2	1.55	0.54
4:F:847:SER:O	4:F:851:ILE:HG12	2.06	0.54
4:F:938:VAL:HA	4:F:941:MET:HG3	1.89	0.54
4:F:1264:LEU:O	4:F:1268:ASN:ND2	2.40	0.54
4:F:1457:GLN:HG2	4:F:1460:ARG:NH2	2.23	0.54
4:F:3614:TYR:O	4:F:3619:ASP:N	2.41	0.54
5:G:278:GLN:CD	6:H:431:ARG:HE	2.10	0.54
5:G:281:LEU:HD23	5:G:281:LEU:H	1.73	0.54
6:H:426:PHE:HB3	6:H:428:GLU:HG2	1.90	0.54
6:H:687:THR:HG21	6:H:701:ALA:HB3	1.90	0.54
8:J:17:DT:H2"	8:J:18:DA:N6	2.22	0.54
4:A:103:TYR:O	4:A:106:GLU:HG3	2.08	0.54
4:A:1102:GLU:OE1	4:A:1152:ARG:NH2	2.41	0.54
4:A:1372:LEU:O	4:A:1375:THR:HG22	2.08	0.54
4:A:1394:HIS:O	4:A:1398:VAL:N	2.31	0.54
4:A:3494:GLN:HA	4:A:3709:GLY:HA2	1.90	0.54
6:C:47:PHE:HZ	6:C:495:LEU:HB2	1.73	0.54
6:C:138:LEU:HB3	6:C:201:GLN:HA	1.89	0.54
4:S:1038:LYS:HA	4:S:1041:ILE:HD12	1.89	0.54
4:S:1184:ARG:NE	4:S:1262:ALA:HA	2.23	0.54
4:S:2471:GLU:HG3	4:S:2517:LEU:HD21	1.90	0.54
4:S:3052:LEU:HD11	4:S:3059:GLN:HA	1.90	0.54
4:S:3358:ARG:O	4:S:3362:LEU:N	2.40	0.54
4:S:3410:ILE:HA	4:S:3413:TYR:HB2	1.90	0.54
4:S:3837:CYS:SG	4:S:3874:ARG:HG3	2.48	0.54
5:T:254:ARG:NH2	8:W:25:DT:O2	2.40	0.54
5:T:300:THR:HA	6:U:293:THR:HA	1.90	0.54
5:T:347:LEU:HD13	5:T:398:CYS:HA	1.89	0.54
5:T:376:ILE:N	6:U:540:ILE:O	2.36	0.54
5:T:397:LEU:HD21	6:U:477:PHE:CG	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:711:ASN:HB2	6:C:330:GLN:HE22	1.72	0.54
2:M:865:ILE:HG21	2:M:869:HIS:HA	1.88	0.54
2:M:905:GLU:HB2	2:M:908:GLN:HG3	1.89	0.54
4:F:32:HIS:O	4:F:35:ILE:HG22	2.07	0.54
4:F:936:SER:HB3	4:F:2773:ARG:HD2	1.90	0.54
4:F:1040:SER:OG	4:F:1041:ILE:N	2.41	0.54
4:F:2533:SER:HA	4:F:2538:ARG:HE	1.72	0.54
6:H:135:PHE:HD2	6:H:166:PRO:HA	1.73	0.54
6:H:677:ILE:HA	6:H:680:GLN:HG2	1.89	0.54
4:A:200:PHE:HE2	4:A:227:LEU:HD22	1.73	0.54
4:A:1200:GLY:HA3	4:A:1207:TRP:HE1	1.72	0.54
4:A:2353:GLN:O	4:A:2357:GLU:HB3	2.08	0.54
6:C:114:SER:O	6:C:118:ILE:HG12	2.08	0.54
6:C:485:PRO:HB3	6:C:512:ILE:HB	1.90	0.54
4:S:468:LEU:HB2	4:S:474:VAL:HG12	1.90	0.54
4:S:883:TYR:HB2	4:S:3892:THR:HG21	1.90	0.54
4:S:1619:ALA:HA	4:S:1622:ILE:HG22	1.89	0.54
4:S:1693:VAL:O	4:S:1696:LEU:N	2.40	0.54
4:S:3583:LEU:HD13	4:S:3755:GLY:H	1.71	0.54
4:S:3768:PHE:CE1	4:S:3918:LEU:HB3	2.42	0.54
4:S:3915:HIS:CE1	4:S:3962:ARG:HG2	2.42	0.54
3:Q:97:CYS:SG	3:Q:98:ASP:N	2.81	0.54
4:F:1060:PHE:HZ	4:F:1095:LEU:HD13	1.72	0.54
4:F:1258:ASP:OD1	4:F:1259:LEU:N	2.41	0.54
4:F:2126:MET:HA	4:F:2129:LEU:HG	1.90	0.54
4:F:2786:LYS:NZ	4:F:2788:SER:HB2	2.23	0.54
4:F:3462:ARG:HD3	4:F:3494:GLN:HB2	1.89	0.54
6:H:45:GLN:O	6:H:49:GLU:N	2.41	0.54
6:H:108:LEU:HB2	6:H:146:GLN:HB3	1.90	0.54
6:H:315:ARG:HH11	6:H:320:ILE:HG13	1.72	0.54
6:H:396:ALA:HA	6:H:403:PRO:HA	1.89	0.54
4:A:294:PHE:O	4:A:298:LEU:HG	2.08	0.54
4:A:1277:GLY:H	4:A:1280:GLN:HB3	1.73	0.54
4:A:2161:ALA:HA	4:A:2164:TRP:HB2	1.90	0.54
4:S:82:ARG:HA	4:S:85:ILE:HD12	1.89	0.54
4:S:1058:SER:HA	4:S:1061:LYS:HE2	1.89	0.54
4:S:1787:ARG:HE	4:S:1830:HIS:HE1	1.53	0.54
4:S:2416:LYS:HB3	5:T:97:VAL:HG23	1.89	0.54
4:S:3303:THR:OG1	4:S:3355:LYS:NZ	2.38	0.54
4:S:4055:ASN:HB3	4:S:4058:VAL:HB	1.90	0.54
5:T:428:THR:HG22	6:U:355:PHE:HE2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:433:GLN:HG3	6:U:354:ARG:HB2	1.90	0.54
5:T:484:GLN:HB2	5:T:488:ARG:NH2	2.23	0.54
6:U:184:ARG:NE	6:U:515:MET:O	2.38	0.54
6:U:695:SER:O	6:U:699:GLU:HG2	2.08	0.54
1:K:44:THR:O	1:K:114:GLU:N	2.34	0.53
1:L:16:ILE:HG12	1:L:38:ASP:HB2	1.89	0.53
1:L:47:VAL:HG11	1:L:113:LEU:HD23	1.90	0.53
2:M:887:LYS:HD3	2:M:911:ILE:HG12	1.89	0.53
3:R:25:ALA:HB1	3:R:36:LEU:HD11	1.90	0.53
4:F:409:GLN:NE2	4:F:410:MET:SD	2.81	0.53
4:F:729:CYS:O	4:F:733:LEU:HD23	2.08	0.53
4:F:962:TYR:HA	4:F:965:THR:HB	1.89	0.53
4:F:2090:ARG:HB3	4:F:2094:MET:HE1	1.90	0.53
4:F:2981:TRP:HB3	4:F:2984:GLY:HA3	1.89	0.53
4:F:3240:MET:SD	4:F:3275:SER:HB2	2.48	0.53
4:F:3610:TYR:CE2	4:F:3641:ASP:HB3	2.43	0.53
5:G:480:ASN:HB3	5:G:483:LEU:HD12	1.90	0.53
6:H:61:THR:HG21	6:H:65:ASP:HB2	1.91	0.53
4:A:129:ASP:HA	4:A:132:ILE:HD12	1.89	0.53
4:A:275:PHE:O	4:A:279:ALA:N	2.41	0.53
4:A:322:GLN:O	4:A:326:MET:HG2	2.08	0.53
4:A:1367:HIS:O	4:A:1371:VAL:HG23	2.08	0.53
4:A:2323:LEU:HD13	4:A:2345:VAL:HG21	1.90	0.53
4:A:2426:HIS:CD2	4:A:2431:ARG:HD2	2.43	0.53
4:A:2439:ILE:HG22	4:A:2443:MET:HE2	1.90	0.53
4:A:2815:GLY:HA2	4:A:2818:LYS:HE2	1.90	0.53
4:A:3528:ALA:O	4:A:3530:VAL:HG13	2.09	0.53
4:S:131:LEU:HD22	4:S:174:VAL:HA	1.91	0.53
4:S:559:SER:OG	4:S:560:LEU:N	2.40	0.53
4:S:647:TYR:O	4:S:651:TYR:N	2.41	0.53
4:S:913:ARG:O	4:S:916:GLU:HG3	2.07	0.53
4:S:923:ASP:O	4:S:926:THR:N	2.41	0.53
4:S:2893:LEU:O	4:S:2897:LEU:HB2	2.07	0.53
4:S:3005:LEU:O	4:S:3007:GLU:N	2.40	0.53
4:S:3190:LEU:HD13	4:S:3234:CYS:HB3	1.90	0.53
4:S:3324:ARG:HA	4:S:3388:ALA:HA	1.88	0.53
6:U:161:LEU:HB3	6:U:211:VAL:HG21	1.90	0.53
1:K:20:LEU:HD11	1:K:34:ILE:HD11	1.89	0.53
1:N:161:ARG:HD2	2:P:844:GLU:HG2	1.89	0.53
4:F:67:VAL:HG21	4:F:85:ILE:HD13	1.89	0.53
4:F:566:ASP:O	4:F:570:LYS:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:730:LEU:HD11	4:F:765:LEU:HD11	1.90	0.53
4:F:896:VAL:N	4:F:903:PRO:O	2.41	0.53
4:F:1668:PHE:O	4:F:1672:PHE:CB	2.56	0.53
4:F:2394:LYS:O	4:F:2398:LEU:HG	2.08	0.53
4:F:2749:ALA:O	4:F:2753:ARG:NH1	2.42	0.53
4:F:3030:ILE:O	4:F:3037:GLN:NE2	2.40	0.53
4:F:3575:LEU:HA	4:F:3681:LYS:C	2.29	0.53
5:G:163:HIS:CE1	5:G:165:ARG:HB2	2.41	0.53
5:G:401:THR:HA	5:G:408:PRO:HA	1.91	0.53
5:G:482:VAL:HA	5:G:485:GLN:NE2	2.23	0.53
4:A:141:SER:OG	4:A:144:MET:SD	2.65	0.53
4:A:251:PHE:HE2	6:C:553:ILE:HB	1.72	0.53
4:A:1022:ASP:OD1	4:A:1025:LEU:N	2.40	0.53
4:A:1112:ALA:HB1	4:A:1180:GLN:HE22	1.72	0.53
4:A:1377:CYS:SG	4:A:1378:GLU:N	2.82	0.53
4:A:1406:LEU:HD22	4:A:1411:TYR:HB2	1.88	0.53
4:A:3101:TYR:HA	4:A:3104:GLN:HE21	1.72	0.53
4:A:3544:ASP:OD1	4:A:3548:GLY:N	2.40	0.53
4:A:3572:ILE:HG23	4:A:3799:ARG:HE	1.74	0.53
6:C:80:HIS:CD2	6:C:97:LYS:HD2	2.43	0.53
6:C:355:PHE:HB3	6:C:425:PRO:HD3	1.89	0.53
6:C:426:PHE:H	6:C:429:ASP:HB2	1.73	0.53
4:S:275:PHE:CD2	4:S:315:ALA:HB1	2.42	0.53
4:S:473:PRO:HA	4:S:476:ARG:HH21	1.73	0.53
4:S:573:LEU:HB2	4:S:649:PHE:HE1	1.72	0.53
4:S:831:LEU:HD12	4:S:834:LEU:HD23	1.90	0.53
4:S:1092:GLU:HG3	4:S:1096:VAL:HG13	1.89	0.53
4:S:1115:HIS:HA	4:S:1119:LYS:HD3	1.89	0.53
4:S:1191:PHE:O	4:S:1195:VAL:HG23	2.08	0.53
4:S:1407:LYS:HD2	4:S:1463:LEU:HD22	1.90	0.53
4:S:2532:PRO:HB2	4:S:2537:ASP:HB3	1.90	0.53
4:S:3179:TRP:CD2	4:S:3245:SER:HB2	2.43	0.53
4:S:3255:ALA:HB1	4:S:3258:LEU:HD23	1.90	0.53
4:S:3442:TYR:HB3	4:S:3443:PRO:HD3	1.90	0.53
4:S:3581:PRO:HD3	4:S:3629:ARG:HD2	1.91	0.53
4:S:3704:GLN:HB3	4:S:3750:PHE:HE2	1.72	0.53
4:S:4060:THR:HB	4:S:4081:ALA:HB1	1.91	0.53
1:L:158:VAL:HA	1:L:161:ARG:HG2	1.90	0.53
3:Q:4:LEU:HA	3:Q:28:PHE:CE2	2.44	0.53
3:Q:176:ARG:HG2	3:Q:178:ARG:H	1.73	0.53
4:F:1504:ASP:HB3	4:F:1507:CYS:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1715:GLU:HA	4:F:1718:ILE:HG12	1.89	0.53
4:F:3482:LEU:HD23	4:F:3485:LYS:HE2	1.90	0.53
4:F:3593:ARG:NE	4:F:3661:ASP:OD1	2.39	0.53
6:H:627:ASN:HA	6:H:673:HIS:CD2	2.44	0.53
4:A:38:LEU:HD23	4:A:84:GLU:HB3	1.91	0.53
5:B:362:LEU:HB3	6:C:361:VAL:HG23	1.90	0.53
5:B:370:PRO:HB3	5:B:382:PHE:CD2	2.43	0.53
4:S:1390:GLN:HG2	4:S:1394:HIS:HB2	1.89	0.53
4:S:1839:PHE:O	4:S:1843:ILE:HG12	2.09	0.53
4:S:3137:GLU:HG3	4:S:3182:ILE:HD13	1.88	0.53
4:S:3178:ILE:O	4:S:3182:ILE:HG12	2.09	0.53
4:S:4056:PRO:O	4:S:4060:THR:OG1	2.22	0.53
5:T:94:LYS:NZ	5:T:104:VAL:O	2.31	0.53
5:T:193:LEU:HB2	5:T:198:ILE:HB	1.90	0.53
6:U:270:GLU:HB3	6:U:487:PHE:CE2	2.42	0.53
4:F:67:VAL:HA	4:F:71:LYS:HE2	1.90	0.53
4:F:428:PRO:HB2	4:F:431:TYR:CD2	2.43	0.53
4:F:865:GLN:HE22	4:F:3171:ALA:N	2.01	0.53
4:F:1064:TYR:CD1	4:F:1106:ILE:HG13	2.43	0.53
4:F:1087:ARG:HA	4:F:1090:ARG:CZ	2.37	0.53
4:F:1144:SER:HA	4:F:1147:LYS:HE3	1.90	0.53
4:F:2435:CYS:O	4:F:2439:ILE:HG12	2.08	0.53
4:F:2746:LYS:O	4:F:2750:GLU:HG2	2.09	0.53
4:F:4115:ASN:OD1	4:F:4116:ILE:N	2.42	0.53
5:G:240:GLU:HB3	5:G:244:ARG:HH12	1.74	0.53
6:H:608:SER:HA	6:H:651:GLU:HB3	1.90	0.53
4:A:699:GLU:HG3	4:A:700:LYS:HG3	1.91	0.53
4:A:1464:LEU:O	4:A:1468:LEU:N	2.32	0.53
4:A:1766:LEU:HD21	4:A:1822:ARG:HB2	1.91	0.53
4:A:1831:CYS:SG	4:A:1832:SER:N	2.82	0.53
4:A:2349:LEU:HA	4:A:2352:HIS:CE1	2.43	0.53
4:A:2580:PRO:HB3	4:A:2784:GLN:HE22	1.73	0.53
4:A:2941:GLY:O	4:A:2945:SER:OG	2.26	0.53
6:C:497:ARG:HE	6:C:504:PRO:HA	1.73	0.53
4:S:639:ALA:HA	4:S:642:PHE:HB3	1.90	0.53
4:S:1006:THR:HG21	4:S:1053:PRO:HD2	1.91	0.53
4:S:1163:LEU:HD22	4:S:1168:LEU:HD21	1.91	0.53
4:S:3583:LEU:HD21	4:S:3734:ARG:HD3	1.91	0.53
5:T:257:SER:OG	7:V:32:DA:N6	2.28	0.53
6:U:311:ILE:HG13	6:U:324:SER:HB3	1.91	0.53
1:K:148:ASN:ND2	1:L:151:LEU:HD12	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:721:VAL:HA	2:M:743:MET:HG2	1.90	0.53
3:Q:57:ARG:HD2	3:Q:122:HIS:HB3	1.89	0.53
3:R:26:LYS:HE3	3:R:39:SER:HB2	1.90	0.53
4:F:800:LEU:HD12	4:F:852:ARG:HD2	1.90	0.53
4:F:3082:TYR:O	4:F:3086:LEU:HG	2.09	0.53
4:F:3263:HIS:O	4:F:3267:LYS:NZ	2.30	0.53
4:F:3878:VAL:HB	4:F:4127:TRP:HB2	1.89	0.53
5:G:39:ILE:HB	5:G:166:ILE:HD13	1.89	0.53
5:G:89:GLY:HA2	5:G:141:TYR:HA	1.91	0.53
5:G:289:TYR:CE1	5:G:291:GLU:HB3	2.44	0.53
6:H:185:LEU:O	6:H:515:MET:HA	2.08	0.53
6:H:319:ASP:OD1	6:H:320:ILE:N	2.38	0.53
6:H:397:TYR:HB3	6:H:401:ALA:HB3	1.90	0.53
4:A:1572:LEU:HD22	4:A:1614:GLN:HG2	1.91	0.53
4:A:1804:MET:HA	4:A:1807:LYS:HD3	1.91	0.53
4:A:2952:ILE:HD12	4:A:2981:TRP:HH2	1.74	0.53
4:A:3592:VAL:HG12	4:A:3596:LEU:HD23	1.90	0.53
4:A:3951:GLN:OE1	4:A:4067:GLY:N	2.41	0.53
4:A:4056:PRO:HG3	4:A:4098:LEU:HD12	1.90	0.53
4:A:4074:PHE:HA	4:A:4077:TYR:HD2	1.73	0.53
5:B:352:PRO:HA	5:B:394:VAL:HA	1.89	0.53
4:S:2228:ARG:HH12	7:V:44:DG:H4'	1.72	0.53
4:S:2386:LEU:H	4:S:2418:LYS:NZ	2.07	0.53
4:S:2524:PHE:O	4:S:2530:ARG:NE	2.38	0.53
4:S:3068:ALA:HB1	4:S:3074:GLN:HB3	1.90	0.53
4:S:3428:GLU:OE2	4:S:3474:ARG:NH2	2.41	0.53
4:S:3617:LEU:HA	4:S:3633:ILE:HG22	1.91	0.53
4:S:3775:LEU:HD11	4:S:3914:SER:HB3	1.90	0.53
3:X:44:VAL:HG23	3:Y:132:SER:HB3	1.91	0.53
1:K:18:HIS:HA	1:K:38:ASP:HA	1.90	0.53
1:N:60:ALA:HB1	3:Q:75:HIS:HB2	1.91	0.53
3:R:38:VAL:HB	3:R:45:TRP:HB2	1.90	0.53
3:R:184:PHE:HZ	3:R:189:PHE:HB2	1.74	0.53
4:F:15:LEU:HA	4:F:19:LEU:HD23	1.91	0.53
4:F:1003:SER:HA	4:F:1006:THR:HG23	1.91	0.53
4:F:1870:LYS:HA	4:F:1873:TYR:CD2	2.44	0.53
4:F:2389:PHE:CD1	4:F:2393:LEU:HB3	2.44	0.53
4:F:3179:TRP:HB3	4:F:3242:MET:HE1	1.90	0.53
4:F:3778:ASP:OD1	4:F:3779:SER:N	2.40	0.53
8:J:28:DA:C8	8:J:29:DG:N1	2.77	0.53
4:A:1733:THR:HG23	4:A:1736:PHE:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2952:ILE:HG23	4:A:2971:GLN:HB3	1.90	0.53
6:C:45:GLN:O	6:C:50:ASN:N	2.42	0.53
4:S:1576:ASP:HA	4:S:1579:VAL:HB	1.91	0.53
4:S:1679:LEU:HD13	4:S:1714:LEU:HD11	1.89	0.53
4:S:2227:LYS:HB2	4:S:2230:VAL:HG22	1.90	0.53
4:S:3308:ASP:OD2	4:S:3326:GLN:NE2	2.42	0.53
4:S:3589:SER:HB3	4:S:3661:ASP:HA	1.91	0.53
4:S:3793:VAL:HG12	4:S:3803:ILE:HA	1.89	0.53
5:T:61:ASP:OD2	5:T:125:GLN:NE2	2.40	0.53
5:T:286:ILE:HD12	6:U:320:ILE:HG21	1.90	0.53
5:T:339:ARG:NH2	5:T:343:PRO:HD3	2.23	0.53
5:T:391:GLU:HG3	6:U:458:ILE:HG13	1.91	0.53
1:L:138:GLN:O	1:L:141:ASN:HB3	2.09	0.53
2:M:820:LEU:HD23	2:M:822:SER:HB2	1.89	0.53
1:N:18:HIS:CE1	1:N:38:ASP:HB3	2.44	0.53
4:F:183:GLU:HG2	4:F:184:VAL:H	1.73	0.53
4:F:863:GLY:O	4:F:867:ASN:N	2.26	0.53
5:G:45:SER:HA	5:G:139:SER:H	1.74	0.53
7:I:22:DA:H1'	7:I:23:DT:C4	2.44	0.53
4:A:1258:ASP:HA	4:A:1261:LEU:HD12	1.90	0.53
4:A:1603:GLN:OE1	4:A:1606:ARG:NH2	2.40	0.53
4:A:2151:ILE:HA	4:A:2192:THR:HG21	1.89	0.53
4:A:3361:GLU:HB3	4:A:3366:SER:HA	1.90	0.53
9:D:26:DA:H2'	9:D:26:DA:N3	2.22	0.53
4:S:250:ASN:HB3	4:S:296:VAL:HG21	1.91	0.53
4:S:1086:TYR:CE1	4:S:1089:PHE:HB3	2.44	0.53
4:S:1724:MET:HB2	4:S:1768:ARG:HB3	1.91	0.53
2:M:812:MET:SD	2:M:848:HIS:ND1	2.82	0.53
1:O:41:SER:HA	1:O:119:PRO:HB3	1.90	0.53
2:P:863:VAL:HG13	2:P:886:PHE:HB3	1.90	0.53
4:F:493:LYS:O	4:F:625:ASN:ND2	2.40	0.53
4:F:1731:PRO:HA	4:F:1736:PHE:CD2	2.44	0.53
4:F:2158:ARG:NH1	4:F:2195:SER:O	2.38	0.53
4:F:3356:ALA:O	4:F:3360:LEU:HG	2.08	0.53
4:F:3532:PRO:HA	4:F:3535:ILE:HG22	1.91	0.53
5:G:129:LYS:HA	5:G:132:GLN:HG2	1.90	0.53
5:G:288:LEU:O	6:H:311:ILE:N	2.25	0.53
4:A:480:SER:HA	4:A:483:VAL:HG22	1.89	0.53
4:A:688:PRO:HA	4:A:701:TYR:HE1	1.72	0.53
4:A:936:SER:HB2	4:A:2790:LEU:HD12	1.91	0.53
4:A:2387:PRO:O	5:B:158:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2959:ALA:HB3	4:A:2968:ALA:HB2	1.91	0.53
4:A:3291:GLN:HG3	4:A:3348:LEU:HD11	1.91	0.53
4:A:3756:GLU:HB3	4:A:4023:LYS:HG2	1.90	0.53
9:D:38:DT:H1'	9:D:39:DA:H5'	1.91	0.53
4:S:566:ASP:O	4:S:570:LYS:HG2	2.07	0.53
4:S:1783:ARG:NH2	4:S:1830:HIS:HB2	2.24	0.53
4:S:2260:PHE:HA	4:S:2270:ASN:HB2	1.91	0.53
4:S:2398:LEU:HD11	4:S:2423:VAL:HG21	1.91	0.53
4:S:2446:LEU:HD23	4:S:2451:LEU:HD13	1.90	0.53
5:T:46:LYS:HE2	5:T:138:GLY:HA2	1.89	0.53
5:T:71:TYR:O	5:T:75:ILE:HG13	2.09	0.53
5:T:339:ARG:HH21	5:T:343:PRO:HD3	1.73	0.53
5:T:403:ARG:H	5:T:406:ILE:HD11	1.74	0.53
1:O:8:ILE:HG13	1:O:18:HIS:O	2.08	0.53
2:P:740:PRO:HG2	2:P:762:GLY:HA2	1.90	0.53
4:F:86:LEU:HB3	4:F:129:ASP:HB3	1.91	0.53
4:F:192:ASN:O	4:F:196:LEU:HG	2.09	0.53
4:F:642:PHE:CD1	4:F:645:TRP:HB2	2.44	0.53
4:F:702:SER:O	4:F:706:LEU:HG	2.09	0.53
4:F:919:LEU:HD12	4:F:971:ARG:NH2	2.18	0.53
4:F:1055:ASN:H	4:F:1058:SER:HG	1.49	0.53
4:F:1759:LEU:HD22	4:F:1797:LEU:HG	1.90	0.53
4:F:2349:LEU:O	4:F:2353:GLN:HB2	2.09	0.53
4:F:2452:ARG:HD2	4:F:2494:ASP:CB	2.39	0.53
4:F:2585:GLU:HB2	4:F:2779:ASP:H	1.73	0.53
5:G:71:TYR:HA	5:G:74:LYS:HE2	1.91	0.53
5:G:398:CYS:SG	5:G:399:ARG:N	2.82	0.53
5:G:489:ASN:HD22	5:G:500:PRO:HG2	1.73	0.53
6:H:352:GLN:OE1	6:H:354:ARG:NE	2.42	0.53
6:H:621:GLU:O	6:H:623:PHE:N	2.40	0.53
4:A:299:LYS:O	4:A:303:HIS:ND1	2.41	0.53
4:A:1139:GLU:O	4:A:1142:HIS:ND1	2.42	0.53
4:A:1256:TRP:HA	4:A:1259:LEU:HD12	1.91	0.53
4:A:1625:HIS:HA	4:A:1627:LYS:HG2	1.90	0.53
4:A:1760:GLU:HB2	4:A:1804:MET:HG2	1.90	0.53
4:A:3483:MET:HA	4:A:3486:GLU:HB2	1.91	0.53
4:A:3810:VAL:HG12	4:A:3932:MET:SD	2.49	0.53
5:B:263:LEU:HD11	5:B:267:ILE:HG13	1.90	0.53
5:B:269:ILE:HD12	5:B:381:LEU:HD23	1.91	0.53
4:S:110:THR:O	4:S:114:VAL:HG23	2.09	0.53
4:S:215:PRO:HB2	4:S:217:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1035:GLU:O	4:S:1039:TRP:HB2	2.09	0.53
4:S:1685:ASP:O	4:S:1689:LYS:N	2.32	0.53
4:S:1833:LEU:HD23	4:S:1884:LEU:HG	1.89	0.53
4:S:1935:GLU:HG2	4:S:1939:LEU:HG	1.91	0.53
4:S:1948:ALA:HA	4:S:1951:VAL:HG22	1.91	0.53
4:S:4011:PHE:O	4:S:4015:ASN:N	2.32	0.53
5:T:203:MET:HA	5:T:211:PHE:HE1	1.73	0.53
3:X:149:GLN:HA	3:X:152:GLU:HB2	1.90	0.53
1:K:169:LYS:HB2	1:L:169:LYS:HB2	1.91	0.53
4:F:2366:LYS:HD2	4:F:2369:LYS:NZ	2.23	0.53
4:F:2570:PRO:HG2	4:A:902:LYS:HE2	1.91	0.53
4:F:3811:THR:HG23	4:F:3814:ASP:H	1.74	0.53
5:G:336:GLU:O	6:H:489:ARG:NH2	2.42	0.53
6:H:21:SER:HB3	6:H:100:PRO:HB2	1.90	0.53
4:A:59:PHE:HE2	4:A:66:LEU:HD11	1.73	0.53
4:A:1782:PHE:CE2	4:A:1823:SER:HA	2.44	0.53
4:A:2506:LEU:HB2	4:A:2525:TRP:HZ2	1.74	0.53
4:A:4039:TYR:HB3	4:A:4041:ARG:HD3	1.91	0.53
5:B:301:ARG:HG2	5:B:302:THR:H	1.74	0.53
5:B:334:THR:HG23	6:C:276:TRP:CD2	2.44	0.53
6:C:238:LYS:HD3	6:C:240:ILE:HG21	1.90	0.53
6:C:497:ARG:NE	6:C:504:PRO:HA	2.24	0.53
4:S:571:SER:O	4:S:575:ILE:HG12	2.09	0.53
4:S:970:LEU:HD11	4:S:1015:ASP:HB3	1.91	0.53
4:S:2476:ILE:HG22	4:S:2477:LEU:HD22	1.91	0.53
4:S:2813:PHE:O	4:S:2816:ILE:HG22	2.08	0.53
4:S:3507:ASP:HA	4:S:3551:ASN:HB3	1.90	0.53
6:U:86:PRO:HB3	6:U:90:LEU:HD12	1.91	0.53
6:U:363:LYS:HE3	6:U:365:PHE:HZ	1.73	0.53
1:L:7:ARG:HA	1:L:19:PHE:HA	1.91	0.52
4:F:61:ARG:HD3	4:F:62:ASP:N	2.24	0.52
4:F:789:TYR:HA	4:F:792:ILE:HD12	1.91	0.52
4:F:826:PHE:CD1	4:F:836:LYS:HE2	2.44	0.52
4:F:1442:GLN:HA	4:F:1445:ARG:HE	1.73	0.52
4:F:2140:LEU:O	4:F:2144:LEU:HG	2.09	0.52
4:F:2274:ILE:HD13	4:F:2319:ALA:HB2	1.89	0.52
4:F:2521:ILE:HG12	4:F:2525:TRP:HD1	1.73	0.52
4:F:3165:THR:OG1	4:F:3168:TYR:HA	2.09	0.52
4:F:3311:ASN:HB3	4:F:3315:TYR:CE1	2.45	0.52
5:G:33:SER:H	5:G:254:ARG:HE	1.57	0.52
6:H:131:HIS:HA	6:H:219:ASP:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:652:GLU:HB2	6:H:690:GLU:HG3	1.90	0.52
4:A:2928:LYS:HE3	4:A:2993:PHE:HB2	1.91	0.52
4:A:3268:THR:HB	4:A:3272:TRP:CZ3	2.44	0.52
4:A:3420:CYS:HB3	4:A:3446:VAL:HA	1.90	0.52
5:B:378:SER:O	5:B:382:PHE:HB2	2.09	0.52
9:D:29:DA:H5'	10:E:28:DA:H62	1.74	0.52
4:S:1801:VAL:O	4:S:1804:MET:HG3	2.09	0.52
4:S:2776:ARG:NE	4:S:2782:ASP:OD2	2.42	0.52
4:S:2794:LEU:HA	4:S:2797:VAL:HG12	1.89	0.52
5:T:318:ARG:HE	6:U:278:VAL:HG13	1.72	0.52
5:T:322:TYR:HB3	6:U:494:LEU:HD11	1.89	0.52
6:U:251:LEU:HD22	6:U:261:ILE:H	1.74	0.52
6:U:346:CYS:SG	6:U:347:LYS:N	2.81	0.52
3:R:13:TRP:HB2	3:R:215:GLN:HG3	1.91	0.52
3:R:27:VAL:HG11	3:R:79:LEU:HD23	1.91	0.52
3:R:104:LEU:HB3	3:R:123:CYS:HB2	1.89	0.52
4:F:1538:LEU:HB3	4:F:1553:PHE:H	1.74	0.52
4:F:1837:ARG:HD3	4:F:1884:LEU:HB2	1.91	0.52
4:F:2147:ALA:HB2	4:F:2171:LEU:HD21	1.91	0.52
4:F:2481:HIS:HA	4:F:2499:PHE:HE1	1.74	0.52
4:F:2548:PRO:HB2	4:F:2848:PHE:HE1	1.74	0.52
5:G:43:ASP:OD1	5:G:44:ALA:N	2.38	0.52
5:G:376:ILE:HG12	6:H:541:GLU:HB3	1.91	0.52
5:G:484:GLN:NE2	6:H:428:GLU:OE2	2.42	0.52
6:H:31:PHE:HZ	6:H:98:ILE:HG23	1.73	0.52
6:H:411:HIS:CD2	6:H:417:GLU:HA	2.44	0.52
4:A:1098:GLN:HB3	4:A:1152:ARG:HB2	1.90	0.52
4:A:1372:LEU:HG	4:A:1399:CYS:SG	2.49	0.52
4:A:1626:TRP:HA	4:A:1629:CYS:HB2	1.90	0.52
4:A:1696:LEU:O	4:A:1699:PHE:N	2.28	0.52
4:A:1852:LYS:HD2	4:A:1918:LEU:HD22	1.90	0.52
4:A:2104:MET:O	4:A:2108:LEU:N	2.40	0.52
4:A:2325:LEU:HD22	4:A:2328:ARG:HH22	1.73	0.52
4:A:3274:VAL:HG11	4:A:3322:ALA:HB1	1.90	0.52
4:A:3531:TYR:HB2	4:A:3532:PRO:HD3	1.90	0.52
4:A:3569:GLN:HA	4:A:3572:ILE:HD12	1.91	0.52
4:A:3778:ASP:HB2	4:A:3787:GLN:H	1.73	0.52
4:A:3950:THR:CB	4:A:4067:GLY:H	2.22	0.52
5:B:318:ARG:HA	6:C:278:VAL:HA	1.91	0.52
5:B:454:ALA:HB1	5:B:459:VAL:HG11	1.92	0.52
4:S:198:ARG:HD2	5:T:315:ASP:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:655:LEU:O	4:S:659:ARG:HG2	2.09	0.52
4:S:1080:LEU:HD12	4:S:1124:ILE:HG21	1.89	0.52
4:S:1327:GLY:HA2	4:S:1330:TYR:HB3	1.91	0.52
4:S:1594:SER:HB2	4:S:1648:LEU:HD11	1.90	0.52
4:S:2510:LEU:HD13	4:S:2525:TRP:HD1	1.73	0.52
4:S:2899:ARG:HE	4:S:2900:LEU:HG	1.74	0.52
4:S:3100:LYS:O	4:S:3103:ILE:HG22	2.10	0.52
4:S:4107:LEU:HA	4:S:4111:ALA:HB3	1.91	0.52
5:T:367:PHE:HD1	5:T:433:GLN:HE21	1.55	0.52
6:U:135:PHE:CD2	6:U:164:PHE:HB2	2.44	0.52
6:U:197:ILE:HG13	6:U:198:THR:H	1.74	0.52
6:U:343:LEU:N	6:U:392:ILE:O	2.30	0.52
6:U:663:GLN:HE22	6:U:706:ALA:HA	1.73	0.52
3:X:147:GLN:OE1	3:Y:213:ASN:HB2	2.09	0.52
1:L:141:ASN:O	1:L:145:GLN:CB	2.57	0.52
2:M:825:VAL:HG12	2:M:831:THR:HG22	1.92	0.52
3:Q:79:LEU:HA	3:Q:92:GLU:HB3	1.92	0.52
4:F:643:GLU:O	4:F:646:VAL:HG22	2.08	0.52
4:F:2528:GLU:HG2	4:F:2533:SER:HB3	1.91	0.52
5:G:383:SER:HA	6:H:438:LEU:HD21	1.91	0.52
5:G:485:GLN:NE2	6:H:333:TYR:H	2.07	0.52
6:H:249:CYS:O	6:H:261:ILE:N	2.32	0.52
6:H:280:ASP:HB2	6:H:289:ILE:HD11	1.91	0.52
6:H:667:GLU:O	6:H:670:GLN:NE2	2.42	0.52
4:A:58:VAL:HG11	4:A:3098:ARG:HH11	1.75	0.52
4:A:295:GLU:HB3	4:A:299:LYS:HZ3	1.74	0.52
4:A:387:GLU:O	4:A:391:ARG:NH1	2.42	0.52
4:A:1226:GLY:H	4:A:1263:ALA:HB2	1.74	0.52
4:A:4056:PRO:CD	4:A:4098:LEU:HB2	2.40	0.52
5:B:416:GLN:HG2	5:B:428:THR:HB	1.92	0.52
5:B:490:LEU:HB3	6:C:316:TYR:CD1	2.44	0.52
6:C:280:ASP:HB3	6:C:282:LYS:HG2	1.91	0.52
4:S:108:LYS:O	4:S:112:THR:HG23	2.10	0.52
4:S:208:MET:SD	4:S:209:THR:HG23	2.49	0.52
4:S:1369:MET:HB3	4:S:1418:HIS:NE2	2.24	0.52
4:S:1597:LEU:HD23	4:S:1648:LEU:HD13	1.90	0.52
4:S:2161:ALA:O	4:S:2165:LEU:N	2.42	0.52
4:S:2563:LEU:HD21	4:S:2794:LEU:HB3	1.91	0.52
4:S:3416:LEU:O	4:S:3419:PHE:HB3	2.09	0.52
4:S:3890:MET:HG3	4:S:3931:ALA:HB3	1.92	0.52
6:U:165:LEU:HD12	6:U:166:PRO:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:42:DA:H2''	7:V:43:DT:C5	2.44	0.52
3:X:187:ASN:HA	3:X:190:LEU:HG	1.91	0.52
3:X:207:GLY:O	3:X:211:VAL:HG22	2.08	0.52
1:L:37:THR:HG23	1:L:39:GLY:H	1.74	0.52
2:P:675:LYS:O	2:P:679:GLU:HG3	2.08	0.52
3:R:79:LEU:HD13	3:R:85:LYS:HD2	1.91	0.52
4:F:250:ASN:O	4:F:253:LEU:N	2.43	0.52
4:F:2208:ASP:OD1	4:F:2209:GLU:N	2.43	0.52
4:F:2421:VAL:HG23	4:F:2457:PRO:HG3	1.91	0.52
4:F:2930:TYR:HA	4:F:2933:ILE:HG12	1.91	0.52
4:F:3008:TRP:CZ3	4:F:3009:LYS:HD3	2.44	0.52
4:F:3095:ASP:OD1	4:F:3096:VAL:N	2.41	0.52
4:F:3228:SER:HB2	4:F:3232:ARG:HH12	1.73	0.52
4:F:4114:PRO:HA	4:F:4117:LEU:HB2	1.92	0.52
5:G:461:LYS:NZ	5:G:525:PHE:HB3	2.24	0.52
6:H:12:LEU:N	6:H:55:ALA:O	2.38	0.52
6:H:510:GLN:NE2	6:H:514:ASN:HD22	2.07	0.52
4:A:741:ILE:HG21	4:A:776:TRP:CD2	2.44	0.52
4:A:754:MET:HA	4:A:757:LYS:HG2	1.91	0.52
4:A:912:PRO:O	4:A:916:GLU:HG2	2.08	0.52
4:A:1102:GLU:HA	4:A:1154:PRO:HB3	1.92	0.52
4:A:2995:GLU:OE1	4:A:3040:TYR:OH	2.23	0.52
4:S:86:LEU:HB2	4:S:129:ASP:HB3	1.91	0.52
4:S:746:ARG:HH21	4:S:749:VAL:HG11	1.74	0.52
4:S:826:PHE:N	4:S:832:LYS:HZ3	2.07	0.52
4:S:1034:ARG:HB2	4:S:1088:GLU:HG2	1.90	0.52
4:S:1747:LEU:HD11	4:S:1778:PHE:HA	1.90	0.52
4:S:2833:THR:HG23	4:S:2868:LEU:HD22	1.92	0.52
4:S:3911:ILE:HG22	4:S:3915:HIS:CD2	2.44	0.52
8:W:20:DT:H2''	8:W:21:DA:N7	2.25	0.52
1:O:71:ARG:HD3	1:O:75:LEU:HD12	1.92	0.52
3:Q:23:LEU:HD22	3:Q:104:LEU:HD21	1.92	0.52
3:Q:39:SER:HB2	3:R:136:ILE:HD13	1.91	0.52
3:R:75:HIS:CE1	3:R:86:ASP:HA	2.44	0.52
4:F:410:MET:HB3	4:F:442:GLN:HE22	1.74	0.52
4:F:417:VAL:HA	4:F:420:VAL:HG12	1.91	0.52
4:F:667:TYR:HB2	4:F:732:PHE:CD1	2.45	0.52
4:F:890:LYS:HZ2	4:F:906:PHE:HB3	1.72	0.52
4:F:1711:ARG:O	4:F:1714:LEU:HB2	2.09	0.52
4:F:1771:GLN:HE22	4:F:1774:MET:HA	1.74	0.52
4:F:1824:LEU:O	4:F:1828:LEU:HG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2950:LYS:HE2	4:F:2986:PRO:HB3	1.92	0.52
4:F:3103:ILE:HD13	4:F:3138:ILE:HD11	1.91	0.52
4:F:3103:ILE:HD11	4:F:3135:LEU:HD22	1.92	0.52
4:F:4065:LEU:HB2	4:F:4078:VAL:HG11	1.91	0.52
4:A:229:SER:HA	4:A:278:HIS:HE1	1.74	0.52
4:A:291:VAL:O	4:A:294:PHE:N	2.42	0.52
4:A:369:PHE:HA	4:A:372:PRO:HD2	1.92	0.52
4:A:581:LEU:HD13	4:A:620:PHE:HD1	1.75	0.52
4:A:998:ASN:HA	4:A:1001:PHE:CD2	2.44	0.52
4:A:1337:VAL:O	4:A:1341:ILE:HG12	2.10	0.52
4:A:3589:SER:HB2	4:A:3667:LEU:HD11	1.92	0.52
6:C:431:ARG:HH11	6:C:433:TYR:HE1	1.58	0.52
4:S:427:VAL:HG11	4:S:471:LYS:HE3	1.90	0.52
4:S:471:LYS:HA	4:S:1551:ILE:HD13	1.91	0.52
4:S:528:VAL:HG12	4:S:633:ILE:HD11	1.92	0.52
4:S:1767:CYS:SG	4:S:1822:ARG:NH2	2.82	0.52
5:T:259:LEU:C	5:T:260:LYS:HD3	2.30	0.52
5:T:433:GLN:HE22	6:U:431:ARG:HD2	1.75	0.52
6:U:271:ARG:NH2	8:W:30:DT:H3	2.07	0.52
1:K:59:MET:HG3	1:K:106:PHE:HB2	1.90	0.52
1:K:181:ILE:HD12	2:M:774:LEU:HB2	1.92	0.52
2:P:845:LEU:HB3	2:P:850:ALA:HB3	1.92	0.52
4:F:30:ALA:O	4:F:34:LEU:HG	2.10	0.52
4:F:119:ARG:HA	4:F:123:CYS:HA	1.92	0.52
4:F:774:GLU:O	4:F:778:ILE:HG12	2.10	0.52
4:F:1414:ILE:HG22	4:F:1418:HIS:CE1	2.45	0.52
4:F:1948:ALA:HA	4:F:1951:VAL:HG22	1.92	0.52
4:F:2891:ARG:NH2	4:F:3898:LEU:HB2	2.19	0.52
4:F:3072:GLU:HA	4:F:3075:LYS:HE2	1.90	0.52
4:F:3311:ASN:HB3	4:F:3315:TYR:CZ	2.44	0.52
4:A:745:VAL:HB	4:A:788:TYR:HE2	1.75	0.52
4:A:998:ASN:OD1	4:A:999:LYS:N	2.42	0.52
4:A:2094:MET:HG3	4:A:2149:LEU:HD23	1.92	0.52
4:A:2157:PHE:O	4:A:2161:ALA:N	2.42	0.52
4:A:2196:TRP:HB3	4:A:2199:LEU:HB2	1.92	0.52
4:A:2866:ALA:HA	4:A:2869:LEU:HD12	1.92	0.52
6:C:395:TYR:O	6:C:404:GLN:N	2.37	0.52
4:S:392:CYS:HA	4:S:395:MET:HB3	1.91	0.52
4:S:461:ILE:HA	4:S:464:VAL:HG22	1.92	0.52
4:S:653:LEU:HB3	4:S:670:LEU:HD21	1.91	0.52
4:S:1273:GLU:HB3	4:S:1275:THR:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1287:GLN:HB3	4:S:1290:LEU:H	1.75	0.52
4:S:1711:ARG:HH11	4:S:1757:MET:HG2	1.75	0.52
4:S:2920:VAL:HA	4:S:2923:TRP:HB2	1.90	0.52
4:S:2999:LEU:HB3	4:S:3043:TYR:CG	2.44	0.52
5:T:260:LYS:HG2	5:T:374:LEU:CD2	2.39	0.52
3:X:18:LEU:HA	3:X:95:PHE:H	1.75	0.52
4:F:569:VAL:HG13	4:F:649:PHE:HZ	1.74	0.52
4:F:663:ILE:HB	4:F:666:PHE:CE2	2.45	0.52
4:F:1095:LEU:O	4:F:1099:PHE:N	2.43	0.52
4:F:1190:LEU:HA	4:F:1193:LYS:HD3	1.92	0.52
4:F:1769:GLU:O	4:F:1772:HIS:ND1	2.42	0.52
4:F:2214:ARG:HH11	4:F:2218:PHE:HE2	1.58	0.52
4:F:2254:ARG:CZ	4:F:2294:ILE:HG12	2.40	0.52
4:F:3089:LEU:O	4:F:3093:GLN:NE2	2.41	0.52
4:F:3234:CYS:O	4:F:3238:MET:HG2	2.10	0.52
5:G:383:SER:HB2	6:H:439:LYS:HE3	1.91	0.52
6:H:267:ILE:HG12	6:H:361:VAL:HB	1.92	0.52
6:H:335:SER:HB3	6:H:396:ALA:HB2	1.92	0.52
6:H:454:VAL:HA	6:H:457:LEU:HB3	1.90	0.52
4:A:99:LYS:HG3	4:A:102:PRO:HD3	1.91	0.52
4:A:200:PHE:CD1	4:A:224:LEU:HD22	2.44	0.52
4:A:346:TYR:HE1	4:A:384:MET:HE3	1.73	0.52
4:A:387:GLU:O	4:A:391:ARG:HG2	2.09	0.52
4:A:938:VAL:HA	4:A:941:MET:HG3	1.90	0.52
4:A:1145:LEU:HD23	4:A:1151:ARG:HH12	1.75	0.52
4:A:3382:PHE:CD1	4:A:3445:LEU:HD21	2.45	0.52
4:A:3454:LEU:HG	4:A:3461:ALA:HB3	1.91	0.52
4:A:3529:ILE:CB	4:A:3705:TYR:HB2	2.40	0.52
5:B:352:PRO:HD2	6:C:464:ALA:HB3	1.92	0.52
9:D:29:DA:OP1	10:E:28:DA:N6	2.42	0.52
4:S:332:GLU:O	4:S:336:ASN:N	2.23	0.52
4:S:1260:LEU:HD21	4:S:1297:PHE:HZ	1.75	0.52
1:N:169:LYS:HB2	1:O:169:LYS:HD3	1.92	0.52
4:F:282:PHE:O	4:F:286:LEU:HD13	2.10	0.52
4:F:1771:GLN:NE2	4:F:1774:MET:HA	2.25	0.52
4:F:2188:GLU:HA	4:F:2728:LEU:HD22	1.92	0.52
4:F:2287:PRO:HG3	4:F:2326:ILE:HG23	1.91	0.52
4:F:2410:GLU:HG3	4:F:2414:GLN:HE22	1.75	0.52
4:F:2965:TYR:HB3	4:F:3001:CYS:HB2	1.92	0.52
4:F:3521:ILE:O	4:F:3525:TYR:N	2.42	0.52
4:F:3868:VAL:HG22	4:F:4117:LEU:HD22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:50:GLU:O	5:G:171:ASN:ND2	2.42	0.52
6:H:11:VAL:HG22	6:H:55:ALA:HB3	1.91	0.52
6:H:651:GLU:HB2	6:H:655:PHE:HB2	1.92	0.52
4:A:323:VAL:O	4:A:327:VAL:CB	2.58	0.52
4:A:3860:LYS:HE2	4:A:4073:ALA:HB2	1.92	0.52
4:A:3988:LEU:HD23	4:A:4100:GLU:HB2	1.92	0.52
6:C:295:TYR:HB2	6:C:305:VAL:O	2.10	0.52
4:S:74:ASN:ND2	4:S:122:LYS:HB2	2.25	0.52
4:S:229:SER:HA	4:S:278:HIS:CE1	2.37	0.52
4:S:2150:VAL:HA	4:S:2153:THR:OG1	2.09	0.52
4:S:2421:VAL:HG12	4:S:2454:LEU:HD13	1.91	0.52
6:U:184:ARG:HH21	6:U:515:MET:HB2	1.74	0.52
2:M:802:ARG:NH2	2:M:803:TYR:OH	2.42	0.52
3:R:209:PRO:HA	3:R:212:MET:HG2	1.92	0.52
4:F:737:PRO:O	4:F:741:ILE:HG12	2.10	0.52
4:F:2587:GLN:HE21	4:F:2777:HIS:HD2	1.57	0.52
4:F:2821:ASP:HA	4:F:2829:LYS:HE3	1.92	0.52
4:F:3098:ARG:HG2	4:F:3102:TYR:CZ	2.45	0.52
4:F:3254:LEU:HD21	4:F:3289:ARG:HH22	1.75	0.52
5:G:68:GLN:HB2	5:G:119:LEU:HD23	1.92	0.52
5:G:289:TYR:O	5:G:293:ASN:N	2.37	0.52
6:H:82:HIS:H	6:H:84:MET:HE1	1.74	0.52
4:A:146:GLU:HG3	4:A:184:VAL:HB	1.91	0.52
4:A:286:LEU:HB2	4:A:319:PHE:HE1	1.74	0.52
4:A:913:ARG:NH1	4:A:916:GLU:HB2	2.25	0.52
4:A:924:ARG:HH21	4:A:2769:VAL:HG12	1.74	0.52
4:A:1227:GLY:HA2	4:A:1232:PRO:HG2	1.90	0.52
4:A:1242:LEU:HA	4:A:1310:GLU:HA	1.91	0.52
6:C:10:VAL:O	6:C:54:ILE:HA	2.09	0.52
6:C:12:LEU:HB3	6:C:56:LEU:HD13	1.92	0.52
4:S:569:VAL:HA	4:S:572:VAL:HG12	1.92	0.52
4:S:739:ASN:ND2	4:S:742:GLU:OE2	2.43	0.52
4:S:2138:VAL:O	4:S:2143:ARG:NH2	2.43	0.52
4:S:2211:LEU:HB3	4:S:2214:ARG:HH21	1.74	0.52
4:S:2559:THR:HB	4:S:2798:ALA:HB1	1.91	0.52
4:S:3475:TYR:HB3	4:S:3477:GLU:HG2	1.91	0.52
6:U:194:LEU:HD23	6:U:194:LEU:H	1.73	0.52
8:W:28:DA:H1'	8:W:29:DG:C8	2.45	0.52
1:K:181:ILE:HD12	2:M:774:LEU:H	1.75	0.52
1:L:169:LYS:HZ2	2:M:814:ARG:NH2	2.08	0.52
2:P:792:MET:O	2:P:796:ILE:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:41:LEU:HD11	3:Q:204:ILE:HB	1.92	0.52
3:R:108:VAL:HB	3:R:119:TRP:CD1	2.45	0.52
4:F:114:VAL:HG13	4:F:119:ARG:HE	1.75	0.52
4:F:175:TYR:HE2	4:F:203:GLU:HG3	1.74	0.52
4:F:718:MET:HB2	4:F:726:LEU:HD11	1.91	0.52
4:F:988:VAL:HA	4:F:991:LEU:HD12	1.92	0.52
4:F:1708:GLU:O	4:F:1711:ARG:N	2.43	0.52
4:F:1710:LEU:O	4:F:1714:LEU:HG	2.10	0.52
4:F:2162:LYS:HG3	4:F:2163:HIS:ND1	2.24	0.52
4:F:2231:PHE:HA	4:F:2234:ASN:OD1	2.09	0.52
4:F:2349:LEU:HB3	4:F:2360:PHE:HE1	1.73	0.52
4:F:3879:PRO:O	4:F:3965:ARG:NH1	2.43	0.52
5:G:484:GLN:HA	5:G:487:PHE:CD2	2.45	0.52
4:A:798:GLY:O	4:A:802:THR:OG1	2.28	0.52
4:A:1100:VAL:HG11	4:A:1145:LEU:HD13	1.92	0.52
4:A:1565:GLU:HG2	4:A:1566:THR:HG23	1.92	0.52
4:A:1805:PHE:CE1	4:A:1817:GLN:HA	2.45	0.52
4:A:2225:HIS:ND1	4:A:2226:PRO:O	2.37	0.52
4:A:3756:GLU:HA	4:A:4022:LYS:HB3	1.91	0.52
4:A:3774:ILE:HA	4:A:3786:LEU:O	2.10	0.52
5:B:74:LYS:HG2	5:B:83:LEU:HD21	1.91	0.52
5:B:305:THR:HG23	6:C:290:GLN:HE21	1.75	0.52
4:S:195:ASN:OD1	4:S:198:ARG:NH2	2.39	0.52
4:S:1200:GLY:H	4:S:1202:ARG:HH21	1.57	0.52
4:S:1582:LEU:O	4:S:1586:SER:N	2.42	0.52
4:S:2722:ARG:H	4:S:2722:ARG:HD2	1.74	0.52
4:S:3046:ARG:HA	4:S:3049:LEU:HB3	1.92	0.52
4:S:3100:LYS:HE2	4:S:3142:ILE:HG23	1.91	0.52
4:S:3472:ILE:HG12	4:S:3478:GLU:HG2	1.91	0.52
4:S:3704:GLN:HB3	4:S:3750:PHE:CE2	2.45	0.52
5:T:269:ILE:HG12	5:T:381:LEU:HD22	1.92	0.52
5:T:289:TYR:HD1	5:T:291:GLU:H	1.56	0.52
1:L:88:PHE:HD1	1:L:95:PHE:HB2	1.74	0.51
2:P:796:ILE:HD12	2:P:814:ARG:CZ	2.40	0.51
3:Q:193:PHE:CZ	3:R:148:CYS:HB2	2.45	0.51
3:R:168:GLN:O	3:R:173:THR:OG1	2.28	0.51
4:F:994:TRP:HB2	4:F:2780:LEU:HD22	1.92	0.51
4:F:2586:PHE:HB3	4:F:2776:ARG:HB3	1.91	0.51
4:F:3265:GLU:HB2	4:F:3272:TRP:CD1	2.45	0.51
5:G:81:ASP:N	5:G:81:ASP:OD1	2.43	0.51
4:A:432:THR:N	4:A:433:PRO:HD2	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:734:LEU:HD22	4:A:769:GLY:HA2	1.91	0.51
4:A:982:GLN:HG2	4:A:2591:ILE:HG13	1.92	0.51
4:A:1072:ALA:HA	4:A:1123:THR:HG21	1.92	0.51
4:A:1101:PHE:CE1	4:A:1168:LEU:HB2	2.45	0.51
4:A:1133:HIS:O	4:A:1137:ILE:HG12	2.09	0.51
4:A:2244:CYS:SG	4:A:2245:TRP:N	2.83	0.51
4:A:2451:LEU:HD22	4:A:2498:ILE:HD13	1.92	0.51
4:A:3153:SER:O	4:A:3156:PRO:HD2	2.09	0.51
4:A:3490:VAL:HG11	4:A:3493:TRP:CE3	2.45	0.51
4:A:3741:ARG:HA	4:A:3747:GLU:HA	1.92	0.51
4:A:3788:LEU:O	4:A:3789:ARG:NH1	2.43	0.51
5:B:143:LEU:HB2	5:B:186:ALA:HB2	1.90	0.51
4:S:462:VAL:HG12	4:S:534:LEU:HD23	1.92	0.51
4:S:464:VAL:O	4:S:468:LEU:HG	2.10	0.51
4:S:1154:PRO:HB2	4:S:1157:PHE:HB3	1.93	0.51
4:S:1265:GLU:HG3	4:S:1340:ARG:HH11	1.75	0.51
4:S:1431:LEU:HB3	4:S:1448:LEU:HB2	1.91	0.51
4:S:2474:TYR:O	4:S:2478:MET:HG2	2.10	0.51
4:S:2755:LYS:HA	4:S:2758:LYS:HE2	1.90	0.51
4:S:2973:ASP:HB2	4:S:3002:TYR:OH	2.10	0.51
4:S:3002:TYR:HD1	4:S:3010:SER:HB2	1.73	0.51
4:S:3242:MET:SD	4:S:3255:ALA:HB2	2.50	0.51
4:S:3927:ASN:HB2	4:S:3962:ARG:CZ	2.40	0.51
5:T:357:LYS:HD3	5:T:359:HIS:CE1	2.44	0.51
6:U:652:GLU:O	6:U:656:ASN:ND2	2.43	0.51
3:Y:47:GLU:HG3	3:Y:57:ARG:HH12	1.75	0.51
1:N:154:ASP:HB3	1:O:155:TRP:CD1	2.46	0.51
4:F:88:PHE:HA	4:F:91:ILE:HG12	1.91	0.51
4:F:177:LEU:H	4:F:223:CYS:CA	2.18	0.51
4:F:392:CYS:HB2	4:F:438:LEU:HD13	1.90	0.51
4:F:1516:GLU:HA	4:F:1519:PHE:CD2	2.45	0.51
4:F:1630:ASP:HB3	4:F:1633:TRP:CZ2	2.45	0.51
4:F:1686:LEU:HG	4:F:1742:CYS:SG	2.50	0.51
4:F:1958:GLU:HG2	4:F:1959:LEU:H	1.76	0.51
4:F:3139:GLN:HA	4:F:3142:ILE:HG22	1.93	0.51
4:F:3410:ILE:HD11	4:F:3456:LEU:HD13	1.92	0.51
4:F:3729:MET:N	4:F:3735:PRO:O	2.37	0.51
6:H:364:VAL:HB	6:H:419:LEU:HB2	1.92	0.51
4:A:749:VAL:HG22	4:A:792:ILE:HD11	1.93	0.51
4:A:1257:LEU:HD12	4:A:1333:SER:HB2	1.92	0.51
4:A:2256:ILE:HB	4:A:2277:LEU:HD21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2522:ARG:HG2	4:A:2561:PHE:CZ	2.45	0.51
4:A:2888:VAL:HG22	4:A:3895:GLU:HG2	1.92	0.51
4:A:3160:LEU:HG	4:A:3190:LEU:HD22	1.91	0.51
4:A:3596:LEU:HB3	4:A:3606:ILE:HD13	1.92	0.51
5:B:166:ILE:N	5:B:199:PHE:O	2.43	0.51
5:B:321:ILE:HG22	6:C:277:THR:HG21	1.92	0.51
9:D:32:DA:H2''	9:D:33:DA:C5	2.45	0.51
4:S:1264:LEU:HG	4:S:1267:TYR:HD2	1.75	0.51
4:S:2817:LEU:HA	4:S:2820:MET:HG2	1.92	0.51
4:S:2866:ALA:HA	4:S:2869:LEU:HD12	1.91	0.51
4:S:3161:LEU:HB3	4:S:3186:ARG:CZ	2.39	0.51
4:S:3261:GLU:O	4:S:3272:TRP:NE1	2.38	0.51
4:S:3639:GLU:HG3	4:S:3666:LEU:HD11	1.92	0.51
5:T:452:ILE:O	6:U:378:SER:OG	2.22	0.51
6:U:457:LEU:HD13	6:U:533:ILE:HG21	1.92	0.51
2:M:865:ILE:HG13	2:M:875:PHE:CE2	2.43	0.51
2:P:889:LEU:HD22	2:P:893:TRP:CD1	2.46	0.51
4:F:1102:GLU:HA	4:F:1154:PRO:HB3	1.91	0.51
4:F:1115:HIS:HA	4:F:1119:LYS:HD2	1.92	0.51
4:F:1164:CYS:N	4:F:1167:ASP:OD2	2.43	0.51
4:F:2271:SER:HA	4:F:2274:ILE:HD12	1.92	0.51
4:F:3239:LYS:HB2	4:F:3272:TRP:HH2	1.75	0.51
5:G:32:TYR:OH	5:G:161:MET:O	2.24	0.51
6:H:131:HIS:CE1	6:H:219:ASP:HA	2.45	0.51
4:A:411:PRO:HG2	4:A:456:VAL:HG23	1.93	0.51
4:A:3465:PHE:CD1	4:A:3468:LEU:HD23	2.45	0.51
4:A:3666:LEU:O	4:A:3670:MET:HG2	2.10	0.51
4:A:3891:SER:HB3	4:A:3900:LEU:HD12	1.93	0.51
5:B:353:LEU:HD21	5:B:395:ALA:HB2	1.93	0.51
4:S:115:TYR:HA	4:S:130:LEU:HD11	1.92	0.51
4:S:123:CYS:HB2	4:S:170:VAL:HG23	1.93	0.51
4:S:538:ASP:N	4:S:538:ASP:OD1	2.43	0.51
4:S:1723:PRO:HG3	6:U:594:PRO:HA	1.91	0.51
4:S:1961:PHE:HD2	4:S:2125:TRP:HZ3	1.58	0.51
4:S:2813:PHE:HA	4:S:2816:ILE:HG22	1.91	0.51
4:S:2960:GLU:HB2	4:S:2972:TYR:HE2	1.74	0.51
4:S:3133:GLN:O	4:S:3136:THR:HG22	2.09	0.51
5:T:112:GLY:O	5:T:116:ILE:HG12	2.09	0.51
5:T:410:PHE:CE2	6:U:485:PRO:HD3	2.46	0.51
6:U:162:GLN:NE2	6:U:163:PHE:O	2.38	0.51
6:U:489:ARG:HB2	6:U:508:ILE:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:690:VAL:HG21	5:G:290:ARG:HH21	1.74	0.51
4:F:330:ASN:HB2	4:F:333:MET:HB3	1.91	0.51
4:F:890:LYS:HE2	4:F:909:VAL:N	2.26	0.51
4:F:1065:SER:HB2	4:F:1069:HIS:CE1	2.45	0.51
4:F:3324:ARG:NH1	4:F:3392:ALA:O	2.43	0.51
4:F:3410:ILE:HG12	4:F:3453:ALA:HA	1.91	0.51
4:F:3774:ILE:HA	4:F:3786:LEU:HA	1.91	0.51
5:G:258:ARG:NH2	5:G:270:SER:HB3	2.26	0.51
5:G:403:ARG:HD3	7:I:32:DA:H5'	1.92	0.51
6:H:413:LYS:H	6:H:417:GLU:HG3	1.75	0.51
6:H:522:VAL:HA	6:H:525:LYS:HG2	1.93	0.51
7:I:27:DC:H3'	7:I:28:DT:O4'	2.11	0.51
4:A:387:GLU:HG2	4:A:1734:PRO:HG3	1.93	0.51
4:A:466:LEU:HD23	4:A:544:ILE:HB	1.92	0.51
4:A:1302:ALA:HA	4:A:1371:VAL:HG22	1.92	0.51
4:A:1949:ILE:HG23	4:A:2100:LEU:HD13	1.90	0.51
4:A:2356:MET:HE2	4:A:2359:LYS:HB2	1.93	0.51
4:A:2536:LEU:O	4:A:2540:LEU:HG	2.11	0.51
6:C:44:ARG:HD2	6:C:238:LYS:HB3	1.92	0.51
4:S:73:LEU:O	4:S:82:ARG:NH1	2.43	0.51
4:S:1279:LEU:N	4:S:1356:TRP:HE1	2.08	0.51
4:S:1824:LEU:O	4:S:1828:LEU:HG	2.11	0.51
4:S:2154:GLU:HA	4:S:2157:PHE:CE1	2.46	0.51
4:S:3090:TYR:O	4:S:3095:ASP:N	2.36	0.51
4:S:3132:VAL:HA	4:S:3135:LEU:HD12	1.91	0.51
4:S:3760:GLN:O	4:S:3764:VAL:HG23	2.10	0.51
4:S:4038:TRP:HB2	4:S:4066:LEU:HD21	1.92	0.51
5:T:63:SER:O	5:T:67:ILE:HG12	2.10	0.51
5:T:338:LYS:HD3	6:U:486:ARG:HG3	1.92	0.51
6:U:212:MET:HA	6:U:216:GLU:HB3	1.92	0.51
6:U:342:VAL:HG22	6:U:393:VAL:HB	1.91	0.51
1:K:59:MET:HA	1:K:106:PHE:CD2	2.45	0.51
1:K:141:ASN:O	1:K:145:GLN:N	2.43	0.51
1:L:97:PHE:HE2	1:L:108:LEU:HD23	1.75	0.51
2:P:693:PRO:HB2	2:P:718:HIS:ND1	2.26	0.51
4:F:718:MET:HA	4:F:721:TYR:CD2	2.45	0.51
4:F:893:SER:OG	4:F:894:PHE:N	2.42	0.51
4:F:996:THR:HG21	4:F:1039:TRP:HB3	1.92	0.51
4:F:1184:ARG:NH2	4:F:1262:ALA:HA	2.25	0.51
4:F:2844:LEU:HB3	4:F:2875:ALA:HB1	1.91	0.51
4:F:3035:PHE:HA	4:F:3038:GLU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3171:ALA:HA	4:F:3179:TRP:HE1	1.75	0.51
5:G:109:ASP:CG	5:G:115:ARG:HE	2.14	0.51
5:G:348:MET:N	5:G:397:LEU:O	2.34	0.51
6:H:241:GLU:HG2	6:H:242:ARG:H	1.76	0.51
6:H:658:PHE:O	6:H:662:LEU:HG	2.11	0.51
4:A:1876:ILE:HA	4:A:1879:VAL:HG22	1.92	0.51
4:A:2271:SER:HA	4:A:2315:VAL:HG12	1.91	0.51
4:A:2980:ASP:N	4:A:2980:ASP:OD1	2.42	0.51
4:A:4094:PRO:O	4:A:4098:LEU:HD11	2.11	0.51
5:B:439:PHE:O	6:C:268:LEU:N	2.42	0.51
4:S:75:SER:O	4:S:79:ARG:N	2.43	0.51
4:S:835:LYS:HD3	4:S:838:LYS:HD3	1.91	0.51
4:S:2260:PHE:HD1	4:S:2303:LEU:HD21	1.74	0.51
4:S:2981:TRP:CZ2	4:S:2991:LYS:HG2	2.45	0.51
4:S:3266:SER:HA	4:S:3272:TRP:HB3	1.91	0.51
4:S:3912:CYS:HA	4:S:3915:HIS:CD2	2.46	0.51
5:T:318:ARG:O	5:T:329:LEU:N	2.37	0.51
6:U:16:VAL:O	6:U:16:VAL:HG12	2.10	0.51
7:V:41:DT:H1'	7:V:42:DA:C8	2.45	0.51
1:L:65:LYS:H	3:Y:114:GLY:HA3	1.75	0.51
2:M:707:ILE:HG12	5:B:493:LEU:HD23	1.92	0.51
1:N:147:GLU:OE1	1:N:150:ARG:NH2	2.40	0.51
1:N:157:ASP:HB3	2:P:837:ARG:HD3	1.92	0.51
2:P:879:ARG:NE	2:P:886:PHE:O	2.31	0.51
2:P:889:LEU:HD13	2:P:893:TRP:CE3	2.46	0.51
3:R:146:LEU:HG	3:R:217:LEU:HD23	1.92	0.51
4:F:168:ASP:OD1	8:J:22:DG:H5'	2.10	0.51
4:F:638:GLN:HG3	4:F:679:LYS:HZ2	1.76	0.51
4:F:2219:LEU:O	4:F:2223:VAL:N	2.44	0.51
4:F:2353:GLN:O	4:F:2357:GLU:N	2.41	0.51
4:F:3262:LEU:HA	4:F:3272:TRP:NE1	2.26	0.51
6:H:489:ARG:NH1	6:H:508:ILE:HB	2.26	0.51
4:A:718:MET:HA	4:A:721:TYR:CD2	2.45	0.51
4:A:852:ARG:NH2	4:A:3111:MET:O	2.44	0.51
4:A:1072:ALA:O	4:A:1076:LEU:CB	2.59	0.51
4:A:1144:SER:HA	4:A:1149:LYS:HZ3	1.75	0.51
4:A:1867:ILE:HD13	4:A:1870:LYS:HE2	1.93	0.51
4:A:3385:LEU:HB2	4:A:3416:LEU:HD13	1.93	0.51
5:B:365:SER:N	6:C:356:PHE:O	2.38	0.51
6:C:209:LYS:HA	6:C:212:MET:HG2	1.93	0.51
4:S:631:ARG:HG3	4:S:672:ILE:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:667:TYR:O	4:S:732:PHE:HB2	2.11	0.51
4:S:709:LYS:HZ1	4:S:1386:ILE:HB	1.75	0.51
4:S:788:TYR:O	4:S:792:ILE:HG13	2.11	0.51
4:S:924:ARG:NH1	4:S:2594:ASP:O	2.43	0.51
4:S:2216:LEU:O	4:S:2219:LEU:HG	2.10	0.51
4:S:2999:LEU:HD13	4:S:3043:TYR:HB2	1.93	0.51
4:S:3413:TYR:CD1	4:S:3416:LEU:HD22	2.45	0.51
4:S:3505:LEU:HA	4:S:3508:LYS:HB2	1.92	0.51
4:S:3569:GLN:NE2	4:S:3573:ASN:OD1	2.40	0.51
4:S:3788:LEU:HD12	4:S:3789:ARG:H	1.76	0.51
5:T:66:CYS:SG	5:T:242:LEU:HB2	2.51	0.51
5:T:357:LYS:H	5:T:438:PRO:CG	2.23	0.51
8:W:31:DT:H1'	8:W:32:DT:H3	1.76	0.51
1:N:17:THR:HG22	1:O:124:ARG:NE	2.25	0.51
2:P:821:ASP:HB2	2:P:875:PHE:HZ	1.73	0.51
4:F:697:ASP:OD2	4:F:700:LYS:NZ	2.37	0.51
4:F:1666:GLY:O	4:F:1669:PRO:HD2	2.11	0.51
4:F:2257:PHE:HA	4:F:2260:PHE:CE2	2.46	0.51
4:F:2880:CYS:O	4:F:2885:GLN:N	2.44	0.51
4:F:3293:CYS:O	4:F:3297:VAL:HG23	2.11	0.51
5:G:123:LYS:O	5:G:126:GLN:NE2	2.43	0.51
4:A:1069:HIS:CG	4:A:1074:LYS:HD2	2.46	0.51
4:A:1217:VAL:HG23	4:A:1284:THR:N	2.25	0.51
4:A:1475:LEU:HD22	4:A:1527:ARG:HE	1.76	0.51
4:A:1629:CYS:O	4:A:1633:TRP:NE1	2.44	0.51
4:A:3786:LEU:O	4:A:3787:GLN:NE2	2.43	0.51
5:B:507:THR:OG1	6:C:403:PRO:HB2	2.10	0.51
6:C:315:ARG:NE	6:C:317:GLY:O	2.44	0.51
4:S:181:LEU:HB2	4:S:230:LEU:HD11	1.92	0.51
4:S:883:TYR:CE2	4:S:3900:LEU:HD22	2.45	0.51
4:S:1078:ALA:HB1	4:S:1128:CYS:HB2	1.93	0.51
4:S:1107:TYR:CE1	4:S:1128:CYS:HB3	2.46	0.51
4:S:3037:GLN:HG3	4:S:3044:MET:HG3	1.93	0.51
4:S:3466:PRO:HA	4:S:3469:LEU:HG	1.91	0.51
4:S:3775:LEU:O	4:S:3781:CYS:HB3	2.11	0.51
6:U:43:GLN:HB2	6:U:88:PHE:CE2	2.46	0.51
6:U:184:ARG:HH12	6:U:188:HIS:CD2	2.27	0.51
6:U:328:GLU:O	6:U:332:LYS:HG3	2.09	0.51
6:U:484:ASN:ND2	6:U:486:ARG:HB3	2.26	0.51
3:Y:33:GLY:HA3	3:Y:50:ASP:HA	1.92	0.51
1:N:35:THR:HG21	1:N:122:VAL:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:58:ASP:N	1:O:58:ASP:OD1	2.43	0.51
4:F:645:TRP:HB3	4:F:649:PHE:CE1	2.46	0.51
4:F:1047:GLN:HB3	4:F:1051:LYS:HZ1	1.76	0.51
4:F:1096:VAL:O	4:F:1100:VAL:HG13	2.11	0.51
4:F:1444:ASP:OD1	4:F:1445:ARG:N	2.43	0.51
4:F:1690:GLY:HA3	4:F:1745:LYS:HD3	1.92	0.51
4:F:2938:VAL:HA	4:F:3978:GLY:HA3	1.92	0.51
4:F:3067:LYS:HA	4:F:3070:HIS:ND1	2.25	0.51
4:F:3320:ILE:HD11	4:F:3394:GLU:HB2	1.93	0.51
5:G:381:LEU:O	5:G:385:LEU:HG	2.10	0.51
5:G:386:LEU:HD13	5:G:417:GLU:HA	1.93	0.51
5:G:423:GLN:HG2	5:G:425:ILE:HG12	1.92	0.51
6:H:197:ILE:HG23	6:H:201:GLN:HB3	1.91	0.51
7:I:25:DA:N6	8:J:33:DA:H1'	2.25	0.51
4:A:1086:TYR:CE1	4:A:1133:HIS:HB3	2.46	0.51
4:A:1754:GLN:HB3	4:A:1793:THR:HG21	1.92	0.51
4:A:2085:MET:N	4:A:2184:TYR:HH	2.09	0.51
4:A:3635:THR:HG21	4:A:3675:LYS:HD3	1.93	0.51
4:S:446:PHE:HA	4:S:449:TYR:CD2	2.46	0.51
4:S:945:ALA:HB2	4:S:961:LEU:HD12	1.92	0.51
4:S:1039:TRP:NE1	4:S:1043:GLN:OE1	2.44	0.51
4:S:1307:ILE:HG23	4:S:1309:ALA:H	1.76	0.51
4:S:1491:ILE:HD12	4:S:1538:LEU:HD12	1.93	0.51
4:S:2202:PRO:HB2	4:S:2248:CYS:HB3	1.92	0.51
4:S:2549:LYS:HG2	4:S:2848:PHE:CZ	2.46	0.51
4:S:3771:MET:HA	4:S:3774:ILE:HD12	1.92	0.51
4:S:3961:PHE:CE1	4:S:4107:LEU:HG	2.46	0.51
6:U:594:PRO:HG2	6:U:634:LYS:HD3	1.92	0.51
6:U:606:LYS:HG3	6:U:649:PHE:HD2	1.74	0.51
3:X:178:ARG:CZ	3:X:179:LEU:HD23	2.41	0.51
1:K:127:ILE:HD12	1:L:7:ARG:HE	1.76	0.51
1:K:136:GLU:C	1:L:138:GLN:H	2.13	0.51
1:N:172:LEU:HD13	2:P:810:LEU:HB2	1.92	0.51
4:F:83:GLU:CG	4:F:126:PRO:HD3	2.39	0.51
4:F:124:LYS:HB3	4:F:126:PRO:HD2	1.92	0.51
4:F:183:GLU:HB3	4:F:189:MET:HE2	1.92	0.51
4:F:984:TYR:HA	4:F:987:LEU:HB3	1.92	0.51
4:F:1148:ALA:HA	4:F:1164:CYS:HB2	1.91	0.51
4:F:3924:HIS:CD2	4:F:3926:ASN:HB2	2.46	0.51
7:I:29:DA:H8	7:I:30:DA:C2	2.29	0.51
4:A:124:LYS:HA	4:A:171:LEU:HD21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:667:TYR:CD1	4:A:728:SER:HB3	2.45	0.51
4:A:1027:ASP:HB3	4:A:1031:ARG:HH12	1.76	0.51
4:A:1601:LEU:HD11	4:A:1648:LEU:HG	1.92	0.51
4:A:1713:VAL:HA	4:A:1716:GLN:HG2	1.93	0.51
4:A:2452:ARG:HB3	4:A:2498:ILE:HD11	1.93	0.51
4:A:2959:ALA:HB2	4:A:2967:GLU:OE2	2.11	0.51
4:A:3775:LEU:HD23	4:A:3987:ALA:HB1	1.92	0.51
5:B:418:GLU:OE1	6:C:437:SER:OG	2.24	0.51
4:S:106:GLU:O	4:S:110:THR:HG23	2.11	0.51
4:S:993:HIS:HA	4:S:1039:TRP:NE1	2.26	0.51
4:S:1454:ALA:O	4:S:1458:LEU:HG	2.10	0.51
4:S:1836:LEU:HD23	4:S:1883:ARG:HD2	1.92	0.51
4:S:2420:PHE:O	4:S:2424:MET:HG3	2.11	0.51
4:S:2936:TYR:HB3	4:S:2961:ALA:HA	1.91	0.51
4:S:3016:THR:OG1	4:S:3044:MET:SD	2.69	0.51
4:S:3338:ALA:HB2	4:S:3377:LEU:HB3	1.93	0.51
5:T:275:ASN:HB3	8:W:27:DT:O5'	2.11	0.51
6:U:493:CYS:O	6:U:497:ARG:HB3	2.11	0.51
3:X:150:VAL:HG21	3:Y:146:LEU:HD22	1.93	0.51
2:M:670:THR:H	2:M:703:GLY:HA3	1.76	0.51
2:M:720:VAL:N	2:M:745:HIS:O	2.36	0.51
3:R:218:TYR:HA	3:R:221:VAL:HG22	1.92	0.51
4:F:2969:ALA:HB1	4:F:3002:TYR:CZ	2.46	0.51
4:F:3304:VAL:HB	4:F:3307:LEU:HD23	1.93	0.51
4:F:3502:MET:HG3	4:F:3518:VAL:HG11	1.93	0.51
5:G:327:ILE:HG21	6:H:494:LEU:HD23	1.93	0.51
5:G:364:PRO:HG3	6:H:358:GLY:H	1.76	0.51
4:A:169:THR:HB	10:E:22:DG:H2'	1.93	0.51
4:A:229:SER:HA	4:A:278:HIS:CE1	2.46	0.51
4:A:630:CYS:O	4:A:634:LEU:N	2.25	0.51
4:A:931:CYS:HB3	4:A:983:LEU:HD22	1.91	0.51
4:A:981:ARG:O	4:A:985:GLU:HG3	2.11	0.51
4:A:1184:ARG:NH2	4:A:1261:LEU:HB3	2.26	0.51
4:A:1589:ASN:HB3	4:A:1593:VAL:HG23	1.93	0.51
4:A:2150:VAL:HG23	4:A:2157:PHE:CD2	2.46	0.51
4:A:2429:ASP:O	4:A:2433:LYS:HB3	2.11	0.51
4:A:3918:LEU:O	4:A:3946:PHE:N	2.30	0.51
4:S:128:LEU:O	4:S:132:ILE:HG23	2.11	0.51
4:S:192:ASN:O	4:S:196:LEU:HG	2.11	0.51
4:S:738:HIS:CD2	4:S:779:TYR:HB3	2.46	0.51
4:S:1287:GLN:HG3	4:S:1289:SER:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1455:CYS:HA	4:S:1458:LEU:HD12	1.92	0.51
4:S:1767:CYS:HB3	6:U:625:ASP:O	2.11	0.51
4:S:3252:PHE:HE2	4:S:3989:ARG:HH11	1.58	0.51
4:S:4080:VAL:HG23	4:S:4115:ASN:HB3	1.93	0.51
5:T:77:SER:HB3	5:T:247:ARG:HA	1.93	0.51
5:T:185:ARG:O	5:T:189:LYS:HG2	2.11	0.51
5:T:386:LEU:HD13	5:T:431:GLY:N	2.26	0.51
6:U:385:ASP:HB3	6:U:412:ILE:HD11	1.93	0.51
6:U:646:ALA:HB2	6:U:655:PHE:HD2	1.75	0.51
2:M:663:GLU:HB3	2:M:697:THR:HA	1.93	0.50
1:O:192:ARG:O	1:O:196:ASN:ND2	2.44	0.50
2:P:889:LEU:HD13	2:P:893:TRP:CD2	2.46	0.50
3:Q:57:ARG:O	3:Q:60:GLU:HG2	2.11	0.50
4:F:174:VAL:HA	4:F:224:LEU:HB2	1.92	0.50
4:F:452:LYS:HG3	4:F:453:MET:H	1.76	0.50
4:F:921:ALA:O	4:F:927:LYS:HD2	2.10	0.50
4:F:1594:SER:HA	4:F:1597:LEU:HD12	1.92	0.50
4:F:2140:LEU:HA	4:F:2143:ARG:HB2	1.92	0.50
4:F:2233:HIS:CD2	4:F:2731:ARG:HG3	2.46	0.50
4:F:2939:LEU:HD23	4:F:2942:ILE:HG13	1.92	0.50
4:F:3146:SER:HA	4:F:3150:ASN:HD22	1.76	0.50
5:G:97:VAL:HG13	5:G:99:PHE:H	1.75	0.50
5:G:400:TYR:N	5:G:409:TYR:O	2.44	0.50
6:H:595:ALA:HA	6:H:598:PHE:CE2	2.46	0.50
4:A:1630:ASP:HA	4:A:1633:TRP:CE2	2.46	0.50
4:A:1867:ILE:HG22	4:A:1871:MET:HE1	1.92	0.50
4:A:1927:MET:HG2	4:A:1934:LEU:HD12	1.92	0.50
4:A:2532:PRO:HB2	4:A:2537:ASP:OD1	2.10	0.50
4:A:2976:LEU:HD21	4:A:2995:GLU:HG2	1.94	0.50
4:A:3512:VAL:HG22	4:A:3550:LYS:HD2	1.92	0.50
5:B:325:ARG:HE	6:C:88:PHE:HD2	1.60	0.50
6:C:237:PHE:HB3	6:C:511:HIS:NE2	2.26	0.50
4:S:43:VAL:HA	4:S:831:LEU:HD13	1.92	0.50
4:S:120:ALA:HA	4:S:171:LEU:HD11	1.93	0.50
4:S:719:LYS:HB3	4:S:1021:VAL:HG12	1.92	0.50
4:S:1696:LEU:HG	4:S:1758:LEU:HD21	1.93	0.50
4:S:2375:ALA:HB3	4:S:2404:ARG:CZ	2.42	0.50
4:S:2398:LEU:HD21	4:S:2423:VAL:HG11	1.92	0.50
4:S:3135:LEU:O	4:S:3138:ILE:HG22	2.11	0.50
4:S:3463:LEU:HB3	4:S:3770:VAL:HG13	1.92	0.50
4:S:3904:PHE:CE1	4:S:3930:VAL:HA	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:12:PRO:HB3	3:Y:215:GLN:O	2.11	0.50
3:Y:97:CYS:HB3	3:Y:104:LEU:HD11	1.93	0.50
3:Y:134:HIS:HA	3:Y:138:PRO:HG2	1.93	0.50
3:R:8:LEU:HA	3:R:11:GLN:HB2	1.93	0.50
4:F:642:PHE:O	4:F:646:VAL:HG13	2.12	0.50
4:F:786:GLN:NE2	4:F:786:GLN:O	2.44	0.50
4:F:985:GLU:O	4:F:989:MET:HG2	2.10	0.50
4:F:1065:SER:O	4:F:1069:HIS:ND1	2.45	0.50
4:F:1124:ILE:HG13	4:F:1125:GLN:N	2.26	0.50
4:F:1803:GLU:HA	4:F:1806:ARG:NH2	2.27	0.50
4:F:2430:GLU:HA	4:F:2433:LYS:HE2	1.92	0.50
4:F:2555:LEU:HB3	4:F:2809:PHE:CE2	2.46	0.50
4:F:2738:LYS:HE3	7:I:43:DT:H3'	1.94	0.50
4:F:3192:LYS:O	4:F:3195:GLU:HG2	2.12	0.50
4:F:3737:ARG:HA	4:F:3751:LEU:HA	1.92	0.50
4:F:3894:PRO:O	4:F:3897:PHE:HB3	2.11	0.50
4:A:470:ALA:HA	4:A:556:SER:HB3	1.92	0.50
4:A:3988:LEU:HD11	4:A:4051:LEU:HA	1.93	0.50
5:B:166:ILE:O	5:B:201:ASP:N	2.42	0.50
5:B:456:PRO:HA	5:B:459:VAL:HG22	1.94	0.50
4:S:13:LEU:HB2	4:S:59:PHE:CG	2.46	0.50
4:S:1357:LYS:HD2	4:S:1410:PRO:HD3	1.93	0.50
4:S:2327:LEU:HD23	4:S:2342:CYS:SG	2.52	0.50
4:S:3151:LEU:HD22	4:S:3196:LYS:H	1.75	0.50
4:S:3152:SER:H	4:S:3197:LEU:C	2.15	0.50
5:T:220:ILE:HG13	5:T:221:ILE:HG13	1.93	0.50
5:T:318:ARG:N	5:T:329:LEU:O	2.44	0.50
6:U:132:ILE:HG13	6:U:161:LEU:HA	1.93	0.50
6:U:242:ARG:HE	8:W:38:DG:H21	1.59	0.50
6:U:243:HIS:HA	6:U:266:SER:HB2	1.92	0.50
6:U:335:SER:HB2	6:U:403:PRO:HG3	1.92	0.50
6:U:460:SER:O	6:U:526:SER:OG	2.24	0.50
8:W:33:DA:H5'	8:W:33:DA:N3	2.26	0.50
3:Y:165:GLN:HG3	3:Y:183:PRO:HG3	1.92	0.50
2:P:840:ILE:HA	2:P:843:LEU:HD12	1.93	0.50
4:F:118:ASP:O	4:F:121:ALA:N	2.44	0.50
4:F:486:GLY:O	4:F:490:ILE:HG12	2.10	0.50
4:F:1273:GLU:HG3	4:F:1275:THR:HB	1.92	0.50
4:F:1574:ASN:ND2	4:F:1577:LEU:HB2	2.27	0.50
4:F:1771:GLN:H	4:F:1775:GLU:CD	2.14	0.50
4:F:2232:ARG:HD3	4:F:2235:LEU:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3114:TYR:HA	4:F:3128:LYS:NZ	2.26	0.50
4:F:3663:THR:HA	4:F:3666:LEU:HB2	1.92	0.50
4:F:3728:VAL:HG22	4:F:3736:LYS:HG2	1.92	0.50
4:F:3931:ALA:HB3	4:F:3936:GLY:N	2.26	0.50
5:G:263:LEU:HA	5:G:347:LEU:H	1.76	0.50
6:H:45:GLN:HE21	6:H:236:VAL:HG12	1.76	0.50
6:H:164:PHE:HA	6:H:169:LEU:HD11	1.92	0.50
6:H:219:ASP:OD1	6:H:219:ASP:N	2.43	0.50
4:A:355:ASN:HB3	4:A:358:GLU:HB2	1.92	0.50
4:A:901:MET:HG2	4:A:903:PRO:HD3	1.92	0.50
4:A:1035:GLU:HA	4:A:1038:LYS:HE2	1.93	0.50
4:A:3273:LEU:HD22	4:A:3315:TYR:CZ	2.47	0.50
4:A:3306:LEU:HB2	4:A:3330:LEU:HD13	1.94	0.50
4:A:3956:PRO:HB3	4:A:4069:GLU:HG3	1.92	0.50
4:A:4090:ARG:HA	4:A:4093:GLU:HB2	1.92	0.50
6:C:381:ILE:HD12	6:C:418:CYS:HA	1.94	0.50
4:S:45:SER:HB2	4:S:88:PHE:CE2	2.45	0.50
4:S:217:LEU:HD23	4:S:218:PRO:HD3	1.93	0.50
4:S:733:LEU:HD22	4:S:748:TYR:CD1	2.46	0.50
4:S:904:VAL:HG11	4:S:2818:LYS:HD2	1.94	0.50
4:S:1952:ILE:HG22	4:S:2103:HIS:CE1	2.46	0.50
4:S:2359:LYS:HA	4:S:2362:VAL:HB	1.93	0.50
4:S:3768:PHE:CD1	4:S:3918:LEU:HD22	2.47	0.50
5:T:168:LEU:HD13	5:T:202:LEU:HD12	1.94	0.50
5:T:258:ARG:CA	7:V:34:DC:H5'	2.33	0.50
5:T:334:THR:O	5:T:338:LYS:HB2	2.11	0.50
6:U:47:PHE:HB2	6:U:234:LEU:HB2	1.94	0.50
6:U:246:HIS:HA	6:U:368:ARG:HG3	1.93	0.50
6:U:406:GLY:HA3	6:U:421:TYR:CE1	2.47	0.50
7:V:26:DA:H4'	8:W:34:DT:H3	1.76	0.50
1:L:140:LYS:HG3	1:L:143:HIS:ND1	2.26	0.50
1:N:124:ARG:NH1	1:O:15:SER:O	2.45	0.50
2:P:748:PRO:HA	2:P:751:LYS:HD2	1.93	0.50
2:P:820:LEU:HD11	2:P:841:LYS:HB3	1.92	0.50
3:Q:168:GLN:NE2	3:R:167:TYR:OH	2.43	0.50
4:F:1783:ARG:NH1	4:F:1826:THR:HA	2.25	0.50
4:F:2102:LYS:O	4:F:2106:ARG:HD3	2.11	0.50
4:F:2567:SER:HA	4:F:2572:TYR:CZ	2.46	0.50
4:F:3096:VAL:O	4:F:3100:LYS:N	2.35	0.50
6:H:617:ILE:O	6:H:621:GLU:HG3	2.10	0.50
6:H:662:LEU:HA	6:H:665:LYS:HG2	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:916:GLU:O	4:A:920:THR:N	2.44	0.50
4:A:3165:THR:HG21	4:A:3234:CYS:O	2.11	0.50
4:A:3484:THR:HG22	4:A:3505:LEU:HD21	1.93	0.50
4:A:3596:LEU:HD21	4:A:3660:ASN:HB3	1.94	0.50
4:A:3701:ILE:HD11	4:A:3748:HIS:CD2	2.46	0.50
4:A:3710:LYS:NZ	4:A:3713:PRO:HB3	2.27	0.50
5:B:468:LYS:HB3	5:B:518:LEU:HD13	1.94	0.50
4:S:714:VAL:HG11	4:S:732:PHE:CD2	2.46	0.50
4:S:1952:ILE:HG22	4:S:2103:HIS:HE1	1.77	0.50
4:S:2153:THR:HG1	4:S:2157:PHE:HE2	1.59	0.50
4:S:2773:ARG:HH21	4:S:2775:TYR:HA	1.76	0.50
4:S:3172:LYS:NZ	4:S:3782:SER:O	2.36	0.50
4:S:3924:HIS:NE2	4:S:3927:ASN:OD1	2.44	0.50
5:T:282:LYS:HE3	5:T:482:VAL:HG13	1.93	0.50
5:T:484:GLN:O	5:T:488:ARG:HG2	2.11	0.50
6:U:656:ASN:HB3	6:U:688:LYS:HA	1.92	0.50
1:N:10:LEU:HD11	1:N:88:PHE:HD2	1.77	0.50
1:N:173:GLU:HG3	1:O:169:LYS:HE2	1.92	0.50
2:P:670:THR:HA	2:P:673:GLN:O	2.11	0.50
3:Q:128:PRO:HB2	3:R:43:GLN:HG3	1.92	0.50
4:F:51:LEU:HD22	4:F:3101:TYR:HA	1.93	0.50
4:F:410:MET:HB3	4:F:442:GLN:OE1	2.12	0.50
4:F:483:VAL:HG23	4:F:571:SER:HB3	1.92	0.50
4:F:1206:LEU:HA	4:F:1209:LYS:HG2	1.94	0.50
4:F:1713:VAL:HA	4:F:1716:GLN:CD	2.32	0.50
4:F:1725:GLN:HE22	4:F:1727:ARG:NH2	2.09	0.50
4:F:1816:ARG:HA	4:F:1819:PHE:CE1	2.44	0.50
4:F:1848:ILE:HD11	4:F:1915:LEU:HD11	1.92	0.50
4:F:2090:ARG:NH2	4:F:2094:MET:SD	2.85	0.50
4:F:2382:VAL:HA	4:F:2385:LEU:HG	1.94	0.50
4:F:3584:LEU:HD13	4:F:3616:ALA:HB1	1.92	0.50
5:G:341:ASP:OD1	5:G:341:ASP:N	2.44	0.50
5:G:349:GLY:HA2	6:H:463:LEU:HD13	1.94	0.50
6:H:16:VAL:HG12	6:H:16:VAL:O	2.11	0.50
6:H:489:ARG:HD2	6:H:508:ILE:HG13	1.93	0.50
4:A:1887:ASP:N	4:A:1887:ASP:OD1	2.44	0.50
4:A:2832:ILE:O	4:A:2835:LYS:HG3	2.12	0.50
4:A:3483:MET:O	4:A:3487:ILE:HG12	2.12	0.50
4:A:3588:TRP:HD1	4:A:3609:MET:SD	2.34	0.50
5:B:173:ASP:OD1	5:B:173:ASP:N	2.45	0.50
4:S:491:CYS:O	4:S:622:ALA:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:915:THR:HA	4:S:934:LEU:HD12	1.94	0.50
4:S:932:GLU:CD	4:S:2772:TYR:H	2.15	0.50
4:S:943:GLY:HA3	4:S:2783:ILE:HG23	1.93	0.50
4:S:1280:GLN:O	4:S:1285:GLU:HG2	2.11	0.50
4:S:2532:PRO:HD2	4:S:2541:ALA:HB2	1.93	0.50
4:S:3691:LYS:HE2	4:S:3722:PHE:HE2	1.76	0.50
4:S:3700:GLU:HG2	4:S:3701:ILE:H	1.75	0.50
6:U:299:ASP:OD2	6:U:303:THR:OG1	2.23	0.50
1:K:55:GLU:HB2	1:K:66:TYR:OH	2.11	0.50
1:L:95:PHE:HB3	1:L:111:PHE:HB2	1.93	0.50
1:L:153:ARG:NH2	1:L:156:ASN:OD1	2.44	0.50
2:M:837:ARG:HE	2:M:841:LYS:NZ	2.10	0.50
2:P:713:ILE:O	2:P:745:HIS:NE2	2.45	0.50
2:P:716:ASN:HA	2:P:745:HIS:CE1	2.36	0.50
4:F:847:SER:O	4:F:850:GLU:HG2	2.12	0.50
4:F:1789:GLY:O	4:F:1794:GLN:NE2	2.44	0.50
4:F:2269:ASP:OD1	4:F:2269:ASP:N	2.42	0.50
4:F:3118:ASP:C	4:F:3125:ARG:HH21	2.15	0.50
4:F:3120:LEU:HA	4:F:3122:HIS:NE2	2.27	0.50
4:F:3321:LEU:HD22	4:F:3392:ALA:HB1	1.94	0.50
4:F:3420:CYS:O	4:F:3424:LEU:HG	2.12	0.50
4:F:3459:ASN:HA	4:F:3462:ARG:HB3	1.94	0.50
6:H:56:LEU:O	6:H:80:HIS:N	2.41	0.50
6:H:632:PHE:HE2	6:H:677:ILE:HB	1.76	0.50
8:J:25:DT:H3'	8:J:26:DT:C2	2.47	0.50
4:A:1679:LEU:HD13	4:A:1713:VAL:HG21	1.94	0.50
4:A:4098:LEU:HD13	4:A:4102:THR:HB	1.92	0.50
5:B:283:PRO:HG2	6:C:314:PHE:HD2	1.77	0.50
4:S:436:GLU:O	4:S:440:VAL:HG12	2.11	0.50
4:S:960:GLN:O	4:S:964:ARG:HG2	2.12	0.50
4:S:1044:ILE:HG21	4:S:1049:GLN:HB2	1.93	0.50
4:S:1787:ARG:HB3	4:S:1830:HIS:CE1	2.47	0.50
4:S:2510:LEU:HD13	4:S:2525:TRP:CD1	2.46	0.50
5:T:481:PRO:HD2	6:U:403:PRO:HB2	1.93	0.50
6:U:404:GLN:HB2	6:U:423:GLN:HG3	1.93	0.50
1:K:127:ILE:HG21	1:L:19:PHE:CZ	2.47	0.50
1:L:188:LYS:HA	1:L:191:ILE:HG22	1.94	0.50
2:M:669:GLY:HA2	2:M:703:GLY:HA3	1.93	0.50
1:N:141:ASN:O	1:N:144:LEU:HB2	2.11	0.50
4:F:337:LYS:HA	4:F:341:PHE:CG	2.47	0.50
4:F:637:LYS:NZ	4:F:640:GLU:HB2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:745:VAL:HA	4:F:748:TYR:HD2	1.77	0.50
4:F:1237:ALA:HB3	4:F:1296:PHE:CE2	2.47	0.50
4:F:1958:GLU:OE1	4:F:1958:GLU:N	2.38	0.50
4:F:2575:PRO:HB3	4:F:2784:GLN:O	2.12	0.50
4:F:2809:PHE:HB3	4:F:2813:PHE:CE2	2.35	0.50
4:F:3793:VAL:HB	4:F:3803:ILE:HG22	1.93	0.50
5:G:365:SER:HA	5:G:436:PHE:CE1	2.46	0.50
5:G:383:SER:HB2	6:H:446:PRO:HD3	1.93	0.50
5:G:461:LYS:HZ2	5:G:525:PHE:HB3	1.76	0.50
6:H:133:GLU:HA	6:H:164:PHE:HD2	1.76	0.50
6:H:334:LYS:HB2	6:H:403:PRO:HD3	1.93	0.50
4:A:524:TYR:HD2	4:A:629:PHE:HB2	1.75	0.50
4:A:773:LEU:HD22	4:A:796:LEU:HD11	1.93	0.50
4:A:867:ASN:HD22	4:A:3133:GLN:HE21	1.59	0.50
4:A:1071:ASN:ND2	4:A:1073:PHE:HB2	2.27	0.50
4:A:1431:LEU:HD23	4:A:1434:VAL:HG11	1.93	0.50
4:A:3929:MET:SD	4:A:3930:VAL:N	2.85	0.50
9:D:31:DA:H2''	9:D:32:DA:N7	2.27	0.50
4:S:1107:TYR:CZ	4:S:1128:CYS:HB3	2.47	0.50
4:S:1169:VAL:HB	4:S:1198:LEU:HD21	1.94	0.50
4:S:2459:VAL:HG11	4:S:2501:LEU:HG	1.94	0.50
4:S:2920:VAL:HG12	4:S:2947:ILE:HD12	1.94	0.50
4:S:3717:VAL:HG23	4:S:3743:HIS:CD2	2.46	0.50
3:X:184:PHE:CE2	3:Y:149:GLN:HG3	2.43	0.50
2:M:672:SER:HB2	2:M:727:LEU:HD11	1.94	0.50
1:O:95:PHE:CD2	1:O:111:PHE:HD2	2.30	0.50
3:R:4:LEU:HB3	3:R:35:ALA:HB2	1.94	0.50
4:F:388:LEU:HA	4:F:391:ARG:HG2	1.94	0.50
4:F:738:HIS:N	4:F:775:GLU:OE2	2.45	0.50
4:F:991:LEU:HD23	4:F:2781:PRO:HG2	1.94	0.50
4:F:1164:CYS:SG	4:F:1165:LEU:N	2.85	0.50
4:F:1512:SER:O	4:F:1515:LEU:HB2	2.12	0.50
4:F:1839:PHE:CE2	4:F:1843:ILE:HD13	2.46	0.50
4:F:2586:PHE:HE1	4:F:2782:ASP:HA	1.77	0.50
4:F:3090:TYR:HB3	4:F:3099:ALA:HB2	1.94	0.50
4:F:3559:LYS:HA	4:F:3562:LEU:HD12	1.93	0.50
6:H:246:HIS:NE2	8:J:36:DG:OP2	2.42	0.50
6:H:496:HIS:HA	6:H:500:HIS:CE1	2.47	0.50
6:H:496:HIS:NE2	6:H:504:PRO:O	2.42	0.50
4:A:63:PHE:HA	4:A:66:LEU:HD12	1.93	0.50
4:A:244:THR:HG23	4:A:285:CYS:SG	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1176:CYS:SG	4:A:1187:SER:HB2	2.52	0.50
4:A:2317:ALA:O	4:A:2366:LYS:HG2	2.12	0.50
4:A:2439:ILE:HA	4:A:2442:MET:HG3	1.94	0.50
4:A:3155:VAL:CG1	4:A:3156:PRO:HD3	2.42	0.50
4:A:3186:ARG:HA	4:A:3189:PHE:HD2	1.77	0.50
4:A:3717:VAL:HG11	4:A:3746:ARG:HB2	1.94	0.50
5:B:283:PRO:HG2	6:C:314:PHE:HB3	1.93	0.50
4:S:1238:GLN:HB2	4:S:1239:PRO:HD3	1.93	0.50
4:S:1711:ARG:HE	4:S:1761:LEU:HD13	1.77	0.50
4:S:2478:MET:HE1	4:S:2506:LEU:HD22	1.92	0.50
4:S:3130:GLN:HB3	4:S:3178:ILE:HG21	1.94	0.50
4:S:4104:VAL:HA	4:S:4107:LEU:HB3	1.94	0.50
5:T:168:LEU:HB3	5:T:202:LEU:HA	1.93	0.50
5:T:258:ARG:CZ	7:V:34:DC:H3'	2.42	0.50
6:U:247:TRP:HH2	6:U:340:PHE:CD1	2.29	0.50
7:V:39:DA:H4'	8:W:21:DA:H1'	1.94	0.50
1:N:191:ILE:HG13	1:O:191:ILE:HG13	1.94	0.50
3:R:23:LEU:HB3	3:R:40:ASP:HB3	1.94	0.50
4:F:462:VAL:HG12	4:F:534:LEU:HD23	1.94	0.50
4:F:654:ILE:HG12	4:F:710:PHE:CD1	2.47	0.50
4:F:785:MET:HG3	4:F:789:TYR:CE1	2.47	0.50
4:F:991:LEU:O	4:F:995:PHE:N	2.42	0.50
4:F:1456:LYS:NZ	4:F:1516:GLU:O	2.39	0.50
4:F:1457:GLN:HG2	4:F:1460:ARG:HH21	1.77	0.50
4:F:1560:TYR:CE1	4:F:1564:SER:HA	2.46	0.50
4:F:2233:HIS:NE2	4:F:2727:ARG:HB3	2.27	0.50
4:F:3090:TYR:HA	4:F:3093:GLN:HG2	1.94	0.50
4:F:3595:GLU:HB2	4:F:3606:ILE:HD11	1.92	0.50
4:F:3777:GLN:CB	4:F:3787:GLN:HB3	2.41	0.50
5:G:303:PHE:N	6:H:290:GLN:O	2.44	0.50
6:H:164:PHE:CD1	6:H:225:TYR:HB2	2.47	0.50
4:A:1802:TYR:CZ	4:A:1843:ILE:HB	2.47	0.50
4:A:2773:ARG:NH2	4:A:2774:SER:OG	2.39	0.50
4:A:3835:PRO:HG3	4:A:3877:LYS:HB2	1.94	0.50
6:C:57:VAL:HA	6:C:79:VAL:HA	1.93	0.50
4:S:532:ARG:O	4:S:536:SER:OG	2.29	0.50
4:S:1211:VAL:HA	4:S:1214:GLU:HG2	1.94	0.50
4:S:2510:LEU:O	4:S:2518:GLN:NE2	2.42	0.50
4:S:2972:TYR:HB3	4:S:2998:SER:HA	1.93	0.50
4:S:3809:THR:HB	4:S:3938:ILE:HD13	1.93	0.50
1:K:178:LYS:O	1:K:182:LEU:HG	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:753:HIS:O	2:P:757:GLU:HG2	2.12	0.49
3:R:147:GLN:HE21	3:R:151:ARG:HG2	1.76	0.49
4:F:1294:VAL:O	4:F:1367:HIS:NE2	2.44	0.49
4:F:1401:ASN:HA	4:F:1404:LYS:HE2	1.94	0.49
4:F:2527:HIS:O	4:F:2531:LEU:N	2.44	0.49
4:F:2916:LEU:HD21	4:F:2946:GLU:HG2	1.93	0.49
4:F:3090:TYR:OH	4:F:3095:ASP:OD2	2.30	0.49
4:F:3280:TYR:HD2	4:F:3306:LEU:HD11	1.77	0.49
4:F:3631:LYS:HA	4:F:3634:GLN:HG2	1.94	0.49
4:F:3967:PHE:O	4:F:3970:LEU:HD22	2.12	0.49
5:G:348:MET:HA	6:H:518:PRO:HB3	1.94	0.49
6:H:251:LEU:HD13	6:H:340:PHE:CD2	2.47	0.49
6:H:409:PHE:HB3	6:H:420:VAL:HG23	1.94	0.49
6:H:656:ASN:ND2	6:H:689:GLU:O	2.40	0.49
4:A:357:LYS:HG3	4:A:409:GLN:HG2	1.94	0.49
4:A:1272:GLY:HA2	4:A:1351:THR:HG21	1.94	0.49
4:A:1294:VAL:HG13	4:A:1368:LEU:HD11	1.93	0.49
4:A:2387:PRO:HG2	5:B:155:SER:HB2	1.93	0.49
4:A:2936:TYR:HA	4:A:2939:LEU:HB3	1.94	0.49
4:A:3090:TYR:CG	4:A:3102:TYR:HE2	2.30	0.49
5:B:164:LYS:HB2	5:B:198:ILE:HA	1.94	0.49
6:C:119:GLN:HE22	6:C:153:SER:HA	1.76	0.49
4:S:918:ALA:HB1	4:S:931:CYS:HA	1.94	0.49
4:S:2208:ASP:OD1	4:S:2209:GLU:N	2.45	0.49
4:S:2328:ARG:HE	4:S:2370:SER:C	2.16	0.49
4:S:2782:ASP:OD1	4:S:2782:ASP:N	2.42	0.49
4:S:2937:ASP:OD2	4:S:3982:SER:N	2.45	0.49
4:S:3359:ILE:O	4:S:3363:SER:OG	2.29	0.49
4:S:3420:CYS:O	4:S:3424:LEU:HG	2.12	0.49
4:S:3811:THR:HG23	4:S:3814:ASP:H	1.76	0.49
4:S:3887:PHE:CE2	4:S:3970:LEU:HB2	2.46	0.49
4:S:3890:MET:HB2	4:S:3900:LEU:HD23	1.93	0.49
5:T:33:SER:HB3	5:T:160:LYS:HD3	1.94	0.49
5:T:41:LEU:HD23	5:T:166:ILE:HG23	1.94	0.49
5:T:439:PHE:N	5:T:442:ASP:OD2	2.39	0.49
1:K:177:TYR:HA	2:M:774:LEU:HD23	1.94	0.49
1:L:169:LYS:HE2	2:M:847:PHE:CD1	2.46	0.49
2:M:845:LEU:HG	2:M:894:VAL:HG21	1.94	0.49
2:M:891:GLU:O	2:M:895:THR:HG23	2.12	0.49
1:N:158:VAL:HG12	2:P:840:ILE:HG13	1.95	0.49
4:F:108:LYS:HZ1	4:F:148:LYS:HE2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:642:PHE:CE2	4:F:646:VAL:HG12	2.47	0.49
4:F:770:LEU:HA	4:F:773:LEU:HD12	1.94	0.49
4:F:964:ARG:NH1	4:F:965:THR:OG1	2.45	0.49
4:F:2415:LEU:HA	4:F:2418:LYS:HB2	1.93	0.49
4:F:3574:ALA:C	4:F:3682:GLU:HA	2.32	0.49
4:F:3739:ILE:HG12	4:F:3749:PRO:HB3	1.93	0.49
4:F:4055:ASN:HB2	4:F:4095:GLU:HA	1.94	0.49
4:A:41:GLU:HA	4:A:44:LEU:HB3	1.93	0.49
4:A:278:HIS:HB3	4:A:281:GLN:HB2	1.94	0.49
4:A:733:LEU:HD21	4:A:748:TYR:HB3	1.94	0.49
4:A:1607:GLU:HB2	4:A:1611:GLN:HB2	1.94	0.49
4:A:1696:LEU:O	4:A:1700:THR:N	2.34	0.49
4:A:3951:GLN:HG2	4:A:3952:PHE:N	2.27	0.49
6:C:335:SER:HA	6:C:403:PRO:HD3	1.94	0.49
6:C:447:THR:HG21	6:C:536:LEU:HD22	1.94	0.49
9:D:42:DA:N7	9:D:43:DT:N3	2.61	0.49
4:S:748:TYR:HB2	4:S:776:TRP:HZ2	1.78	0.49
4:S:926:THR:HG23	4:S:2800:ARG:HD2	1.95	0.49
4:S:1651:LYS:O	4:S:1655:ILE:HG13	2.13	0.49
4:S:1651:LYS:HA	4:S:1654:GLN:HB3	1.95	0.49
4:S:2132:LYS:O	4:S:2135:ASN:ND2	2.44	0.49
4:S:3874:ARG:NH1	4:S:4126:PRO:HB2	2.27	0.49
5:T:273:ILE:HG13	5:T:368:VAL:HG22	1.93	0.49
1:K:5:ILE:HD11	1:K:126:LEU:HG	1.94	0.49
1:K:32:PHE:CE2	1:K:74:LEU:HD21	2.48	0.49
1:K:145:GLN:HB2	1:L:144:LEU:HD23	1.94	0.49
3:Q:148:CYS:HB2	3:R:193:PHE:HZ	1.77	0.49
4:F:665:GLY:HA2	4:F:668:LYS:HE3	1.93	0.49
4:F:1017:ILE:HG13	4:F:1029:CYS:SG	2.52	0.49
4:F:2361:ILE:HG13	4:F:2396:LEU:HD22	1.95	0.49
4:F:2920:VAL:HA	4:F:2923:TRP:HB2	1.95	0.49
4:F:3002:TYR:HA	4:F:3005:LEU:HB3	1.94	0.49
4:F:3104:GLN:HA	4:F:3107:ILE:HD12	1.93	0.49
4:F:3559:LYS:HA	4:F:3562:LEU:HB2	1.94	0.49
4:F:3837:CYS:SG	4:F:3838:GLU:N	2.84	0.49
4:F:3882:LEU:HA	4:F:3885:ARG:HG3	1.93	0.49
5:G:143:LEU:O	5:G:147:LEU:HG	2.12	0.49
6:H:181:GLY:N	6:H:463:LEU:HG	2.27	0.49
6:H:311:ILE:HD13	6:H:322:PRO:HB2	1.94	0.49
7:I:30:DA:H1'	8:J:28:DA:C2	2.47	0.49
4:A:127:ALA:HA	4:A:130:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:642:PHE:HA	4:A:645:TRP:HD1	1.78	0.49
4:A:1261:LEU:O	4:A:1265:GLU:HB2	2.12	0.49
4:A:2786:LYS:O	4:A:2789:SER:OG	2.27	0.49
4:A:3000:ASP:O	4:A:3004:HIS:ND1	2.45	0.49
4:A:3784:ARG:HG3	4:A:3786:LEU:HG	1.94	0.49
4:A:3816:LEU:O	4:A:3819:THR:N	2.45	0.49
4:A:4061:CYS:O	4:A:4065:LEU:N	2.44	0.49
6:C:221:LEU:HA	6:C:224:ILE:HD12	1.94	0.49
4:S:79:ARG:HH22	4:S:119:ARG:HD3	1.75	0.49
4:S:2193:ILE:HA	4:S:2196:TRP:CH2	2.47	0.49
4:S:2275:GLN:O	4:S:2279:ILE:HG12	2.11	0.49
4:S:3096:VAL:HA	4:S:3099:ALA:HB3	1.94	0.49
4:S:3571:PHE:HE2	4:S:3686:TRP:HB3	1.77	0.49
3:X:145:ALA:HB1	3:X:217:LEU:HB3	1.94	0.49
2:M:750:THR:HG22	2:M:754:PHE:CZ	2.48	0.49
3:Q:211:VAL:O	3:Q:215:GLN:HG2	2.12	0.49
4:F:149:ILE:HA	4:F:152:LEU:HB2	1.94	0.49
4:F:175:TYR:CE1	4:F:204:LEU:HG	2.48	0.49
4:F:1075:ARG:HD3	4:F:1113:LEU:HD23	1.93	0.49
4:F:2363:CYS:O	4:F:2367:VAL:HG12	2.13	0.49
4:F:2965:TYR:HD2	4:F:3253:SER:HB3	1.76	0.49
4:F:3929:MET:HE3	4:F:3938:ILE:HD12	1.95	0.49
4:F:3981:TYR:O	4:F:3985:VAL:HG23	2.12	0.49
5:G:339:ARG:HG3	5:G:405:ASN:HA	1.94	0.49
5:G:401:THR:OG1	5:G:408:PRO:HB3	2.12	0.49
6:H:447:THR:O	6:H:451:LEU:N	2.42	0.49
7:I:23:DT:H6	7:I:23:DT:H5"	1.78	0.49
7:I:32:DA:C6	8:J:25:DT:C4	3.00	0.49
4:A:332:GLU:O	4:A:334:HIS:N	2.45	0.49
4:A:1184:ARG:NE	4:A:1265:GLU:OE1	2.40	0.49
4:A:1297:PHE:O	4:A:1301:ILE:HG12	2.12	0.49
4:A:1341:ILE:HG13	4:A:1342:MET:SD	2.52	0.49
4:A:2102:LYS:HB2	4:A:2106:ARG:HH12	1.77	0.49
4:A:2979:GLN:HB3	4:A:2985:GLU:OE1	2.13	0.49
4:A:3445:LEU:O	4:A:3449:LYS:HG2	2.13	0.49
4:A:3627:ALA:HB3	4:A:3678:GLY:HA3	1.94	0.49
5:B:352:PRO:HB2	5:B:354:VAL:HG22	1.93	0.49
5:B:490:LEU:HD22	6:C:316:TYR:HB2	1.94	0.49
6:C:342:VAL:HA	6:C:394:ARG:H	1.77	0.49
4:S:1107:TYR:CD2	4:S:1131:ILE:HG23	2.48	0.49
4:S:1783:ARG:O	4:S:1830:HIS:ND1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3150:ASN:HD22	4:S:3155:VAL:HG11	1.77	0.49
4:S:4099:SER:O	4:S:4103:GLN:N	2.38	0.49
4:S:4112:THR:O	4:S:4116:ILE:N	2.43	0.49
6:U:14:MET:HG3	6:U:135:PHE:HB2	1.94	0.49
1:K:184:LEU:HD22	1:L:183:VAL:HG22	1.95	0.49
1:L:22:VAL:HG11	1:L:74:LEU:HD13	1.94	0.49
1:L:170:GLU:HA	2:M:814:ARG:HH22	1.77	0.49
1:N:17:THR:HG22	1:O:124:ARG:HE	1.78	0.49
1:N:20:LEU:HG	1:N:22:VAL:HG13	1.94	0.49
3:Q:149:GLN:HA	3:R:189:PHE:HZ	1.78	0.49
4:F:131:LEU:HD11	4:F:173:LYS:HE3	1.94	0.49
4:F:477:ASN:OD1	4:F:478:CYS:N	2.46	0.49
4:F:1166:LEU:O	4:F:1170:LYS:HG2	2.12	0.49
4:F:1418:HIS:O	4:F:1422:LYS:HG2	2.13	0.49
4:F:1576:ASP:HA	4:F:1579:VAL:HB	1.93	0.49
4:F:2987:THR:HG22	4:F:2990:GLU:HB2	1.94	0.49
4:F:3381:ALA:O	4:F:3385:LEU:HG	2.12	0.49
4:F:4010:SER:H	4:F:4038:TRP:HZ2	1.61	0.49
5:G:97:VAL:HG22	5:G:99:PHE:CD1	2.47	0.49
5:G:368:VAL:HG23	5:G:434:LEU:HD21	1.94	0.49
6:H:132:ILE:HD11	6:H:161:LEU:HB2	1.95	0.49
6:H:148:ASP:N	6:H:148:ASP:OD1	2.44	0.49
6:H:300:ASP:OD1	6:H:300:ASP:N	2.44	0.49
4:A:1663:THR:HB	4:A:1665:HIS:CE1	2.48	0.49
4:A:1933:LEU:HD12	4:A:1934:LEU:HD22	1.95	0.49
9:D:44:DG:H2'	10:E:14:DT:O5'	2.13	0.49
4:S:443:ILE:HG22	4:S:527:TYR:CE1	2.44	0.49
4:S:851:ILE:HD13	4:S:854:ARG:HH21	1.76	0.49
4:S:1064:TYR:OH	4:S:1099:PHE:HB3	2.12	0.49
4:S:1172:LEU:HD21	4:S:1190:LEU:HB3	1.93	0.49
4:S:1322:THR:O	4:S:1327:GLY:N	2.43	0.49
4:S:1375:THR:HA	4:S:1379:PRO:HA	1.94	0.49
4:S:1874:TYR:HB2	4:S:1943:ALA:HB1	1.94	0.49
4:S:2094:MET:O	4:S:2097:LEU:HB2	2.11	0.49
4:S:2509:GLY:C	4:S:2521:ILE:HD13	2.33	0.49
4:S:2943:PHE:O	4:S:2948:GLY:HA3	2.12	0.49
5:T:190:ALA:O	5:T:193:LEU:HG	2.13	0.49
5:T:238:LYS:HB2	5:T:242:LEU:HG	1.94	0.49
5:T:474:ARG:HE	5:T:475:SER:H	1.61	0.49
6:U:44:ARG:NH2	6:U:232:ARG:H	2.11	0.49
6:U:325:LYS:HB3	8:W:33:DA:H5''	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:168:ALA:HB1	2:M:810:LEU:HD22	1.93	0.49
1:K:194:LEU:HB3	1:L:194:LEU:HG	1.93	0.49
1:L:3:ARG:NH2	1:L:44:THR:OG1	2.41	0.49
2:M:665:CYS:HB3	2:M:700:VAL:HA	1.94	0.49
2:M:872:VAL:O	2:M:876:LYS:HG2	2.13	0.49
3:Q:33:GLY:O	3:Q:73:LEU:HD11	2.13	0.49
3:R:190:LEU:O	3:R:194:MET:HG2	2.13	0.49
4:F:388:LEU:HD11	4:F:413:PHE:CG	2.48	0.49
4:F:905:ILE:HG23	4:F:2811:SER:HB2	1.95	0.49
4:F:1431:LEU:HD23	4:F:1448:LEU:HB2	1.93	0.49
4:F:1612:LYS:HE2	4:F:1655:ILE:HG23	1.94	0.49
4:F:1801:VAL:HA	4:F:1804:MET:HG3	1.93	0.49
4:F:2232:ARG:HA	4:F:2235:LEU:HG	1.94	0.49
4:F:2439:ILE:HA	4:F:2442:MET:HG3	1.94	0.49
4:F:2519:LEU:HD12	4:F:2522:ARG:HD3	1.94	0.49
4:F:2809:PHE:O	4:F:2812:LEU:HG	2.13	0.49
4:F:2833:THR:HG21	4:F:2867:ALA:HB1	1.94	0.49
5:G:471:PHE:HB2	6:H:345:PHE:H	1.76	0.49
6:H:397:TYR:CE1	7:I:24:DA:H5"	2.48	0.49
6:H:457:LEU:O	6:H:461:MET:HB2	2.12	0.49
4:A:40:GLN:OE1	4:A:2427:ARG:HB2	2.13	0.49
4:A:1637:SER:OG	4:A:1642:LYS:HG3	2.12	0.49
4:A:1747:LEU:HD21	4:A:1778:PHE:CZ	2.47	0.49
4:A:1780:SER:HB2	4:A:1784:ARG:HH12	1.78	0.49
4:A:3150:ASN:HB3	4:A:3156:PRO:HG3	1.94	0.49
4:S:157:TYR:HD1	4:S:160:LEU:HD23	1.78	0.49
4:S:327:VAL:HA	4:S:330:ASN:OD1	2.13	0.49
4:S:538:ASP:N	4:S:561:ASN:OD1	2.45	0.49
4:S:899:ARG:HH21	4:S:2535:THR:HG23	1.78	0.49
4:S:1173:LEU:HD13	4:S:1191:PHE:CE2	2.47	0.49
4:S:1632:TRP:HB3	4:S:1645:VAL:HG11	1.94	0.49
4:S:2157:PHE:O	4:S:2161:ALA:N	2.45	0.49
4:S:2353:GLN:HB3	4:S:2360:PHE:HB2	1.95	0.49
6:U:153:SER:HA	6:U:156:LYS:HE2	1.94	0.49
6:U:655:PHE:HA	6:U:658:PHE:HB2	1.95	0.49
3:X:39:SER:HA	3:X:44:VAL:HG22	1.94	0.49
3:X:156:LEU:HD23	3:Y:157:LEU:HD11	1.93	0.49
1:O:161:ARG:HA	1:O:164:LYS:HE2	1.93	0.49
2:P:793:ALA:HB2	2:P:814:ARG:HH11	1.77	0.49
3:Q:12:PRO:HB2	3:Q:215:GLN:HG3	1.94	0.49
3:Q:75:HIS:CE1	3:Q:112:LEU:HD11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:25:CYS:SG	4:F:26:GLY:N	2.86	0.49
4:F:638:GLN:HG3	4:F:679:LYS:NZ	2.28	0.49
4:F:1000:LYS:HA	4:F:1004:GLN:NE2	2.27	0.49
4:F:1048:GLN:OE1	4:F:1048:GLN:N	2.46	0.49
4:F:1294:VAL:HA	4:F:1297:PHE:CD2	2.48	0.49
4:F:1323:SER:N	4:F:1328:GLU:OE2	2.46	0.49
4:F:2268:LYS:HD3	4:F:2312:TYR:CD2	2.47	0.49
4:F:2492:ASP:O	4:F:2496:GLN:N	2.39	0.49
4:F:3988:LEU:HD12	4:F:3991:PHE:HB2	1.94	0.49
5:G:125:GLN:O	5:G:129:LYS:HG2	2.13	0.49
6:H:457:LEU:HA	6:H:461:MET:CE	2.42	0.49
6:H:595:ALA:HA	6:H:598:PHE:CZ	2.48	0.49
8:J:37:DG:OP1	8:J:37:DG:H2'	2.12	0.49
4:A:408:TYR:CD1	4:A:441:MET:HB3	2.48	0.49
4:A:1226:GLY:HA2	4:A:1263:ALA:HB2	1.95	0.49
4:A:1281:VAL:HG13	4:A:1282:LEU:HG	1.95	0.49
4:A:1369:MET:O	4:A:1373:VAL:HG23	2.13	0.49
4:A:1370:ARG:HG3	4:A:1418:HIS:NE2	2.28	0.49
4:A:1536:ALA:O	4:A:1555:HIS:N	2.43	0.49
4:A:1801:VAL:O	4:A:1805:PHE:CB	2.61	0.49
4:A:2571:ASP:HA	4:A:2574:ASN:OD1	2.13	0.49
4:A:2937:ASP:O	4:A:3978:GLY:HA2	2.11	0.49
4:A:2995:GLU:HB3	4:A:3019:ILE:HG22	1.95	0.49
4:A:3031:TRP:HD1	4:A:3037:GLN:HE22	1.61	0.49
4:A:3871:PHE:CZ	4:A:4117:LEU:HD13	2.48	0.49
4:S:163:LYS:HE3	5:T:301:ARG:HA	1.95	0.49
4:S:522:PRO:HB2	4:S:527:TYR:HE2	1.78	0.49
4:S:1849:ASP:OD1	4:S:1850:VAL:N	2.45	0.49
4:S:2290:PRO:O	4:S:2293:GLY:N	2.36	0.49
4:S:3713:PRO:HB2	4:S:3716:HIS:HB2	1.95	0.49
4:S:3997:LEU:O	4:S:4001:THR:HG22	2.13	0.49
1:K:51:GLU:O	1:K:55:GLU:HG2	2.13	0.49
1:L:190:LYS:HE2	2:M:765:TYR:CG	2.48	0.49
2:P:747:CYS:O	2:P:751:LYS:HG3	2.12	0.49
4:F:35:ILE:HG13	4:F:38:LEU:HD23	1.95	0.49
4:F:112:THR:O	4:F:116:THR:HG23	2.12	0.49
4:F:209:THR:O	4:F:212:VAL:HG22	2.13	0.49
4:F:781:ASP:OD2	4:F:783:HIS:ND1	2.45	0.49
4:F:1121:LEU:HG	4:F:1123:THR:H	1.77	0.49
4:F:1555:HIS:HB3	4:F:1559:PHE:CZ	2.48	0.49
4:F:3305:SER:OG	4:F:3308:ASP:OD1	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3606:ILE:HG22	4:F:3647:GLY:HA3	1.94	0.49
4:F:3714:GLU:OE1	4:F:3714:GLU:N	2.46	0.49
4:F:3933:GLU:HG3	4:F:3934:THR:HG22	1.94	0.49
6:H:107:PHE:HE2	6:H:142:PHE:HA	1.78	0.49
6:H:194:LEU:HG	6:H:195:LYS:HD2	1.95	0.49
4:A:859:LEU:HB3	4:A:867:ASN:OD1	2.13	0.49
4:A:2585:GLU:O	4:A:2778:GLY:HA3	2.12	0.49
4:A:3374:ILE:HB	4:A:3378:TYR:CZ	2.48	0.49
6:C:340:PHE:CE1	6:C:393:VAL:HG11	2.48	0.49
6:C:453:ALA:HA	6:C:529:PRO:HB3	1.94	0.49
4:S:109:ASN:HA	4:S:112:THR:HG23	1.95	0.49
4:S:865:GLN:NE2	4:S:3171:ALA:H	2.07	0.49
4:S:1066:LEU:HA	4:S:1069:HIS:CD2	2.48	0.49
4:S:1131:ILE:HA	4:S:1134:LEU:HB2	1.95	0.49
4:S:1148:ALA:HB2	4:S:1164:CYS:HB2	1.93	0.49
4:S:1229:CYS:N	4:S:1259:LEU:HD21	2.28	0.49
4:S:1781:SER:O	4:S:1785:ILE:HG23	2.13	0.49
4:S:1878:ASP:HB2	4:S:1950:SER:OG	2.13	0.49
4:S:2121:ASP:HB2	4:S:2126:MET:SD	2.53	0.49
4:S:2971:GLN:O	4:S:2974:GLU:HG2	2.13	0.49
4:S:3050:LYS:HD3	4:S:3053:LEU:HD12	1.95	0.49
4:S:3144:PHE:HA	4:S:3147:LYS:HD3	1.95	0.49
4:S:3255:ALA:CB	4:S:3258:LEU:HD23	2.43	0.49
4:S:3469:LEU:HD13	4:S:3504:ALA:HB3	1.93	0.49
4:S:3835:PRO:HG2	4:S:3836:PRO:HD3	1.95	0.49
5:T:41:LEU:O	5:T:168:LEU:HA	2.12	0.49
5:T:99:PHE:HB3	5:T:145:GLU:HB3	1.95	0.49
5:T:122:PHE:HB3	5:T:131:PHE:CE1	2.47	0.49
3:Y:24:LEU:HB2	3:Y:39:SER:HB2	1.94	0.49
2:M:879:ARG:HD2	2:M:888:ILE:HD11	1.94	0.49
1:N:28:LEU:HD23	1:N:67:VAL:HG13	1.95	0.49
2:P:793:ALA:CB	2:P:814:ARG:HH11	2.25	0.49
3:Q:7:GLY:HA3	3:Q:28:PHE:CZ	2.47	0.49
4:F:174:VAL:HA	4:F:224:LEU:CB	2.43	0.49
4:F:479:ILE:O	4:F:483:VAL:HG22	2.13	0.49
4:F:802:THR:O	4:F:852:ARG:NH2	2.45	0.49
4:F:1082:PHE:HE2	4:F:1130:ALA:HA	1.78	0.49
4:F:1198:LEU:O	4:F:1202:ARG:NH2	2.46	0.49
4:F:2581:LEU:HD23	4:F:2780:LEU:HB3	1.94	0.49
5:G:120:ASP:HA	5:G:123:LYS:HB3	1.94	0.49
5:G:330:GLU:H	5:G:333:GLU:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:349:GLY:HA3	6:H:463:LEU:HD22	1.94	0.49
6:H:70:GLY:HA3	6:H:74:TYR:CD2	2.46	0.49
6:H:666:VAL:O	6:H:669:LYS:HG3	2.13	0.49
6:H:695:SER:O	6:H:699:GLU:HG2	2.13	0.49
4:A:151:GLU:HG2	4:A:152:LEU:N	2.27	0.49
4:A:2328:ARG:NH1	4:A:2370:SER:O	2.44	0.49
5:B:307:THR:HG21	6:C:282:LYS:HE2	1.94	0.49
5:B:357:LYS:HE2	5:B:359:HIS:HE1	1.78	0.49
6:C:413:LYS:H	6:C:417:GLU:HG2	1.77	0.49
4:S:363:ILE:HG22	4:S:416:SER:OG	2.13	0.49
4:S:866:ILE:HD11	4:S:3168:TYR:CE2	2.47	0.49
4:S:921:ALA:HB3	4:S:927:LYS:HG3	1.94	0.49
4:S:1950:SER:OG	4:S:1951:VAL:N	2.45	0.49
4:S:3571:PHE:HA	4:S:3685:PRO:HD2	1.94	0.49
5:T:219:ASP:OD1	5:T:220:ILE:N	2.45	0.49
6:U:216:GLU:HB2	6:U:220:GLY:HA3	1.95	0.49
1:N:21:GLN:O	1:N:21:GLN:HG2	2.13	0.49
1:O:140:LYS:HA	1:O:143:HIS:HB2	1.94	0.49
2:P:707:ILE:HD12	5:G:493:LEU:HD13	1.95	0.49
2:P:841:LYS:HB3	2:P:894:VAL:HG11	1.95	0.49
3:Q:96:SER:O	3:Q:107:ARG:N	2.46	0.49
4:F:68:PHE:CD2	4:F:69:VAL:HG23	2.47	0.49
4:F:274:LEU:HD12	4:F:277:LEU:HB2	1.93	0.49
4:F:526:ASP:OD1	4:F:527:TYR:N	2.46	0.49
4:F:571:SER:HA	4:F:574:LYS:HE3	1.95	0.49
4:F:768:VAL:HA	4:F:771:ASN:OD1	2.13	0.49
4:F:773:LEU:HD23	4:F:776:TRP:CZ3	2.48	0.49
4:F:1101:PHE:CG	4:F:1163:LEU:HD13	2.48	0.49
4:F:1228:GLY:C	4:F:1233:SER:HB2	2.34	0.49
4:F:1638:PRO:O	4:F:1642:LYS:HG3	2.12	0.49
4:F:1747:LEU:HD21	4:F:1778:PHE:HD1	1.78	0.49
4:F:2546:TYR:HB3	4:F:2842:ARG:NH2	2.28	0.49
4:F:2559:THR:HG23	4:F:2809:PHE:CZ	2.47	0.49
4:F:2887:PRO:HA	4:F:2890:ILE:HD12	1.95	0.49
5:G:38:LEU:HD11	5:G:167:MET:HB2	1.94	0.49
5:G:92:LYS:HD2	5:G:134:MET:O	2.12	0.49
5:G:446:MET:HE1	6:H:265:LYS:C	2.33	0.49
6:H:59:PHE:HA	6:H:76:ASN:O	2.13	0.49
7:I:42:DA:H3'	7:I:43:DT:N3	2.27	0.49
4:A:1605:PHE:HE2	4:A:1654:GLN:HB3	1.77	0.49
4:A:2528:GLU:HA	4:A:2531:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:363:ARG:HA	6:C:358:GLY:O	2.11	0.49
6:C:405:VAL:HG23	6:C:424:LEU:H	1.77	0.49
4:S:326:MET:O	4:S:329:LYS:HG2	2.13	0.49
4:S:866:ILE:O	4:S:869:ASN:ND2	2.43	0.49
4:S:1281:VAL:HG21	4:S:1344:PHE:HZ	1.78	0.49
4:S:2507:ILE:HG22	4:S:2550:ILE:HG13	1.94	0.49
4:S:2508:GLN:OE1	4:S:2549:LYS:HB2	2.12	0.49
4:S:3080:LEU:O	4:S:3109:SER:OG	2.22	0.49
4:S:3420:CYS:HB2	4:S:3443:PRO:HB3	1.95	0.49
4:S:3681:LYS:HB2	4:S:3687:MET:HG2	1.94	0.49
4:S:3897:PHE:O	4:S:3901:ARG:HG2	2.13	0.49
5:T:402:PRO:HB2	7:V:33:DA:OP2	2.12	0.49
6:U:59:PHE:HB2	6:U:77:ILE:HG13	1.95	0.49
6:U:211:VAL:O	6:U:215:LEU:N	2.42	0.49
6:U:614:ASN:HA	6:U:617:ILE:HB	1.94	0.49
1:K:10:LEU:HD22	1:K:88:PHE:H	1.78	0.48
1:K:133:THR:O	1:K:135:ALA:N	2.46	0.48
1:K:134:ILE:O	1:L:136:GLU:HB3	2.13	0.48
2:M:813:PHE:CZ	2:M:903:LEU:HB2	2.48	0.48
3:Q:1:MET:HG2	3:Q:3:GLU:H	1.77	0.48
3:Q:137:ARG:HG2	3:R:204:ILE:HG13	1.95	0.48
3:Q:146:LEU:HD22	3:R:147:GLN:HA	1.95	0.48
4:F:782:ARG:HA	4:F:785:MET:HG2	1.95	0.48
4:F:802:THR:H	4:F:852:ARG:HH12	1.60	0.48
4:F:3879:PRO:HB2	4:F:3882:LEU:HD22	1.94	0.48
4:F:3882:LEU:HA	4:F:3885:ARG:HE	1.78	0.48
5:G:94:LYS:NZ	5:G:105:LEU:HA	2.28	0.48
6:H:86:PRO:HA	6:H:90:LEU:HD12	1.94	0.48
6:H:341:SER:C	6:H:393:VAL:HG23	2.33	0.48
4:A:1144:SER:HA	4:A:1149:LYS:NZ	2.28	0.48
4:A:1149:LYS:HB2	4:A:1151:ARG:NH2	2.28	0.48
4:A:2880:CYS:SG	4:A:2889:GLY:HA3	2.53	0.48
4:A:2931:ARG:HD2	4:A:2993:PHE:HE1	1.76	0.48
4:A:4013:TRP:HA	4:A:4016:PHE:HB3	1.95	0.48
5:B:32:TYR:O	5:B:253:LYS:HD2	2.13	0.48
5:B:40:PHE:CE2	5:B:83:LEU:HB3	2.47	0.48
5:B:303:PHE:CD1	6:C:292:GLU:HB3	2.48	0.48
5:B:446:MET:SD	5:B:446:MET:N	2.86	0.48
6:C:397:TYR:HB3	6:C:401:ALA:HB3	1.94	0.48
4:S:468:LEU:HD13	4:S:475:LEU:HA	1.94	0.48
4:S:853:ILE:HG12	4:S:3104:GLN:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1115:HIS:HD1	4:S:1183:CYS:HB2	1.78	0.48
4:S:1237:ALA:HA	4:S:1240:THR:OG1	2.12	0.48
4:S:1288:SER:O	4:S:1292:LYS:CB	2.52	0.48
4:S:1743:MET:HA	4:S:1746:PHE:CD2	2.48	0.48
4:S:1795:VAL:O	4:S:1799:GLU:HG2	2.13	0.48
4:S:2148:LYS:HE3	4:S:2152:ASN:HD21	1.77	0.48
4:S:2362:VAL:O	4:S:2366:LYS:HG2	2.13	0.48
4:S:2485:ARG:HA	4:S:2499:PHE:CG	2.48	0.48
4:S:3121:LEU:HB3	4:S:3124:SER:HB2	1.95	0.48
4:S:3318:LYS:HE3	4:S:3322:ALA:HB1	1.93	0.48
4:S:3764:VAL:HG12	4:S:3768:PHE:CE1	2.48	0.48
4:S:4083:GLY:HA2	4:S:4114:PRO:HG2	1.94	0.48
5:T:75:ILE:HD13	6:U:316:TYR:CZ	2.48	0.48
5:T:260:LYS:O	5:T:345:LEU:HB2	2.12	0.48
5:T:443:LYS:O	6:U:267:ILE:HB	2.13	0.48
3:X:213:ASN:ND2	3:Y:151:ARG:HG3	2.27	0.48
1:L:176:LEU:HD23	1:L:179:ARG:NH1	2.28	0.48
2:P:761:TYR:CZ	2:P:781:ILE:HG23	2.48	0.48
2:P:837:ARG:HH21	2:P:891:GLU:HB3	1.77	0.48
3:Q:14:ALA:HB3	3:Q:27:VAL:HG23	1.95	0.48
3:R:41:LEU:HD11	3:R:210:PHE:HB2	1.94	0.48
4:F:24:ARG:HG3	4:F:25:CYS:N	2.27	0.48
4:F:35:ILE:HD12	4:F:81:CYS:HA	1.94	0.48
4:F:1507:CYS:HA	4:F:1510:LEU:HD12	1.94	0.48
4:F:2522:ARG:HA	4:F:2561:PHE:CE2	2.48	0.48
4:F:2571:ASP:HA	4:F:2574:ASN:OD1	2.13	0.48
4:F:3052:LEU:HA	4:F:3056:GLU:HB3	1.95	0.48
4:F:3287:ARG:HA	4:F:3289:ARG:CZ	2.43	0.48
4:F:3387:GLU:O	4:F:3391:ALA:HB2	2.14	0.48
4:F:3443:PRO:HA	4:F:3446:VAL:HG22	1.94	0.48
4:F:3886:ALA:HA	4:F:3889:ARG:HG2	1.95	0.48
5:G:56:GLU:HG3	5:G:57:LEU:O	2.12	0.48
5:G:364:PRO:HG3	6:H:358:GLY:N	2.29	0.48
5:G:366:LEU:O	5:G:434:LEU:N	2.34	0.48
5:G:462:MET:HB3	6:H:380:LEU:HD13	1.95	0.48
7:I:21:DA:N6	8:J:33:DA:N7	2.52	0.48
4:A:351:ASN:OD1	4:A:352:VAL:N	2.46	0.48
4:A:797:ASP:HB3	4:A:801:LYS:HB3	1.94	0.48
4:A:2584:CYS:SG	4:A:2780:LEU:N	2.66	0.48
4:A:3104:GLN:O	4:A:3108:GLN:HG2	2.13	0.48
4:A:3389:VAL:HG13	4:A:3413:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3530:VAL:HG22	4:A:3702:PRO:HB3	1.95	0.48
5:B:75:ILE:HD13	5:B:112:GLY:HA2	1.94	0.48
5:B:463:LYS:HG3	6:C:383:ALA:HB1	1.94	0.48
6:C:248:PRO:HA	6:C:261:ILE:HG13	1.94	0.48
6:C:314:PHE:HD1	6:C:323:PHE:HB3	1.77	0.48
10:E:35:DT:H2"	10:E:36:DA:C8	2.48	0.48
4:S:79:ARG:HD2	4:S:122:LYS:HG3	1.95	0.48
4:S:414:LEU:HD21	4:S:442:GLN:HG2	1.94	0.48
4:S:443:ILE:HD11	4:S:461:ILE:HD11	1.95	0.48
4:S:635:PRO:HD3	4:S:672:ILE:HG12	1.94	0.48
4:S:1445:ARG:NH1	4:S:1507:CYS:SG	2.85	0.48
4:S:1580:LEU:HD13	4:S:1625:HIS:CG	2.49	0.48
4:S:1601:LEU:HA	4:S:1655:ILE:HD11	1.95	0.48
4:S:2192:THR:HG22	4:S:2725:LEU:HD13	1.95	0.48
4:S:2307:MET:O	4:S:2316:TYR:HB2	2.13	0.48
4:S:2367:VAL:O	4:S:2371:PHE:N	2.31	0.48
4:S:3166:ASN:OD1	4:S:3186:ARG:NH2	2.43	0.48
4:S:3531:TYR:HE1	4:S:3705:TYR:HD2	1.60	0.48
5:T:325:ARG:NH1	6:U:501:PRO:HD3	2.24	0.48
6:U:312:GLN:HG2	6:U:324:SER:HA	1.94	0.48
1:K:62:GLU:HB3	3:R:111:GLU:CB	2.43	0.48
1:K:88:PHE:HB2	1:K:95:PHE:CD1	2.49	0.48
1:N:62:GLU:OE1	3:Q:92:GLU:N	2.45	0.48
3:Q:166:ASP:OD2	3:R:176:ARG:NH2	2.45	0.48
4:F:348:ILE:O	4:F:349:ILE:HG13	2.14	0.48
4:F:472:GLY:C	4:F:476:ARG:HE	2.16	0.48
4:F:576:VAL:HA	4:F:579:LEU:HD23	1.94	0.48
4:F:730:LEU:HD13	4:F:755:ALA:HB2	1.96	0.48
4:F:2097:LEU:HD13	4:F:2149:LEU:HB3	1.93	0.48
4:F:2209:GLU:HA	4:F:2248:CYS:HB2	1.96	0.48
4:F:2448:PRO:O	4:F:2452:ARG:HG3	2.13	0.48
4:F:3075:LYS:O	4:F:3078:LEU:HB2	2.13	0.48
4:F:3131:SER:O	4:F:3135:LEU:HG	2.13	0.48
4:F:3141:PHE:CZ	4:F:3192:LYS:HB2	2.43	0.48
4:F:3239:LYS:O	4:F:3242:MET:HB2	2.12	0.48
4:F:3733:ARG:HB3	4:F:3754:GLY:H	1.78	0.48
4:F:3835:PRO:HA	4:F:3839:TYR:HB2	1.95	0.48
5:G:81:ASP:N	5:G:110:ASN:OD1	2.46	0.48
5:G:526:LYS:HZ2	5:G:531:PRO:HA	1.78	0.48
6:H:44:ARG:HH11	6:H:234:LEU:HA	1.78	0.48
6:H:353:ARG:HD3	6:H:356:PHE:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:398:ASP:OD1	6:H:401:ALA:N	2.46	0.48
6:H:655:PHE:HA	6:H:658:PHE:CD2	2.48	0.48
7:I:32:DA:N6	8:J:25:DT:O4	2.46	0.48
4:A:59:PHE:CE2	4:A:66:LEU:HD11	2.48	0.48
4:A:782:ARG:HA	4:A:785:MET:SD	2.54	0.48
4:A:867:ASN:HD22	4:A:3133:GLN:NE2	2.11	0.48
4:A:1069:HIS:HE1	4:A:3745:GLU:C	2.16	0.48
4:A:1095:LEU:HA	4:A:1098:GLN:OE1	2.14	0.48
4:A:2575:PRO:HB3	4:A:2784:GLN:O	2.12	0.48
4:A:2884:LEU:HB3	4:A:3124:SER:HB2	1.94	0.48
6:C:54:ILE:HD11	6:C:90:LEU:HD21	1.96	0.48
4:S:172:GLU:HA	4:S:174:VAL:HG22	1.96	0.48
4:S:296:VAL:HG13	4:S:297:LEU:HD12	1.95	0.48
4:S:527:TYR:HB3	4:S:531:PHE:CD1	2.49	0.48
4:S:1007:VAL:O	4:S:1010:LEU:HB3	2.14	0.48
4:S:1685:ASP:HB3	4:S:1688:LEU:HG	1.95	0.48
4:S:2193:ILE:HG22	4:S:2245:TRP:HH2	1.78	0.48
4:S:2295:GLN:NE2	4:S:2298:GLU:OE1	2.46	0.48
4:S:2855:VAL:O	4:S:2859:GLN:HG3	2.14	0.48
1:K:38:ASP:OD1	1:K:41:SER:N	2.44	0.48
1:L:52:ILE:O	1:L:55:GLU:HB2	2.14	0.48
2:M:872:VAL:HG13	2:M:888:ILE:HG21	1.95	0.48
1:N:44:THR:HG22	1:N:45:GLY:N	2.28	0.48
1:O:88:PHE:CE2	1:O:90:LYS:HG2	2.48	0.48
3:R:142:MET:HE1	3:R:214:LEU:HD22	1.96	0.48
4:F:173:LYS:O	4:F:224:LEU:HB2	2.14	0.48
4:F:569:VAL:HG11	4:F:645:TRP:CD1	2.49	0.48
4:F:898:PHE:H	4:F:902:LYS:HD3	1.77	0.48
4:F:968:VAL:O	4:F:972:LEU:HD23	2.13	0.48
4:F:1220:LEU:HB2	4:F:1285:GLU:HB2	1.95	0.48
4:F:1360:LYS:HE2	4:F:1366:THR:HG21	1.95	0.48
4:F:1380:ALA:HA	4:F:1384:PHE:HA	1.95	0.48
4:F:1444:ASP:N	4:F:1447:ARG:HH21	2.12	0.48
4:F:2138:VAL:O	4:F:2143:ARG:HG3	2.13	0.48
4:F:2166:SER:OG	4:F:2167:PRO:HD3	2.12	0.48
4:F:2479:TRP:O	4:F:2483:ASN:ND2	2.34	0.48
4:F:2935:GLU:OE2	4:F:2938:VAL:N	2.35	0.48
5:G:59:PRO:HG2	5:G:171:ASN:ND2	2.19	0.48
5:G:67:ILE:HB	5:G:71:TYR:CZ	2.48	0.48
6:H:279:VAL:HB	6:H:284:LEU:HA	1.95	0.48
6:H:346:CYS:O	6:H:390:VAL:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1663:THR:HB	4:A:1665:HIS:HE1	1.78	0.48
4:A:3152:SER:HB2	4:A:3197:LEU:HB2	1.95	0.48
4:A:3771:MET:O	4:A:3775:LEU:HB2	2.13	0.48
5:B:50:GLU:CD	5:B:171:ASN:HD22	2.17	0.48
4:S:111:CYS:HA	4:S:114:VAL:HB	1.95	0.48
4:S:1294:VAL:HG12	4:S:1365:ASN:ND2	2.28	0.48
4:S:1538:LEU:HD13	4:S:1553:PHE:CZ	2.49	0.48
4:S:1588:ASP:OD1	4:S:1588:ASP:N	2.44	0.48
4:S:3254:LEU:HG	4:S:3255:ALA:H	1.78	0.48
4:S:3874:ARG:HB3	4:S:4127:TRP:HA	1.96	0.48
5:T:254:ARG:HD2	5:T:255:ALA:N	2.29	0.48
5:T:259:LEU:HD11	5:T:402:PRO:HA	1.95	0.48
6:U:11:VAL:HG13	6:U:55:ALA:HB3	1.95	0.48
3:X:147:GLN:HG2	3:Y:209:PRO:O	2.13	0.48
2:M:777:VAL:O	2:M:781:ILE:HG13	2.13	0.48
1:N:140:LYS:O	1:N:144:LEU:HD13	2.14	0.48
4:F:293:LEU:O	4:F:296:VAL:HG12	2.13	0.48
4:F:1368:LEU:O	4:F:1372:LEU:HG	2.13	0.48
4:F:1471:GLN:HB2	4:F:1476:HIS:HA	1.95	0.48
4:F:2467:THR:N	4:F:2470:ARG:HH21	2.11	0.48
4:F:2753:ARG:O	4:F:2757:ILE:HG12	2.14	0.48
4:F:2897:LEU:HA	4:F:2900:LEU:HD12	1.95	0.48
4:F:3867:THR:HB	4:F:4117:LEU:O	2.12	0.48
5:G:206:LYS:HE3	5:G:207:LYS:NZ	2.29	0.48
6:H:406:GLY:HA2	6:H:424:LEU:N	2.29	0.48
7:I:21:DA:N6	8:J:34:DT:C4	2.81	0.48
4:A:23:ASP:HA	4:A:30:ALA:HB1	1.94	0.48
4:A:753:GLN:NE2	4:A:792:ILE:HG12	2.28	0.48
4:A:978:GLN:HA	4:A:981:ARG:CZ	2.43	0.48
4:A:2565:MET:O	4:A:2568:MET:HG3	2.13	0.48
4:A:3562:LEU:HD13	4:A:3799:ARG:HB2	1.95	0.48
4:A:4019:LYS:HG3	4:A:4023:LYS:HD3	1.95	0.48
5:B:99:PHE:HB3	5:B:145:GLU:HB3	1.95	0.48
6:C:407:VAL:O	6:C:421:TYR:HA	2.13	0.48
9:D:30:DA:H1'	9:D:31:DA:C5	2.48	0.48
4:S:115:TYR:HD1	4:S:130:LEU:HD21	1.79	0.48
4:S:1009:LEU:O	4:S:1013:ILE:HG12	2.13	0.48
4:S:1604:SER:HA	4:S:1607:GLU:HB3	1.94	0.48
4:S:1686:LEU:HA	4:S:1689:LYS:HD2	1.95	0.48
4:S:2231:PHE:O	4:S:2235:LEU:HG	2.14	0.48
4:S:2467:THR:O	4:S:2471:GLU:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3304:VAL:HG23	4:S:3356:ALA:HA	1.96	0.48
4:S:3612:ARG:NH2	4:S:3798:SER:HB3	2.29	0.48
5:T:341:ASP:N	5:T:341:ASP:OD1	2.46	0.48
5:T:382:PHE:CE2	5:T:431:GLY:HA2	2.49	0.48
6:U:360:GLN:NE2	7:V:25:DA:O5'	2.46	0.48
1:L:66:TYR:HB2	3:Y:114:GLY:HA2	1.96	0.48
1:L:73:ALA:HB1	1:L:97:PHE:CZ	2.49	0.48
3:Q:131:VAL:HG23	3:Q:135:LEU:HB2	1.96	0.48
3:Q:147:GLN:NE2	3:R:213:ASN:O	2.46	0.48
4:F:407:VAL:HA	4:F:410:MET:CE	2.43	0.48
4:F:835:LYS:HD3	4:F:838:LYS:HD2	1.96	0.48
4:F:966:PHE:HB2	4:F:1011:GLU:CD	2.34	0.48
4:F:1047:GLN:HA	4:F:1050:GLU:HG2	1.95	0.48
4:F:1292:LYS:HD3	4:F:1296:PHE:CE2	2.49	0.48
4:F:1358:LEU:HA	4:F:1361:LYS:HB2	1.95	0.48
4:F:1465:HIS:HB3	4:F:1470:SER:OG	2.14	0.48
4:F:1785:ILE:HA	4:F:1788:ARG:HB2	1.96	0.48
4:F:1948:ALA:O	4:F:1952:ILE:HG12	2.13	0.48
4:F:2492:ASP:OD2	4:F:2494:ASP:HB2	2.14	0.48
4:F:2534:ASN:ND2	4:F:2537:ASP:OD1	2.46	0.48
4:F:2732:PHE:HD1	4:F:2734:ARG:NH1	2.12	0.48
4:F:3226:ASP:OD1	4:F:3227:ILE:N	2.47	0.48
4:F:3506:LEU:HD12	4:F:3515:GLN:HG3	1.96	0.48
4:F:3585:PHE:CZ	4:F:3667:LEU:HB2	2.49	0.48
4:F:3619:ASP:N	4:F:3619:ASP:OD1	2.47	0.48
4:F:3733:ARG:HH22	4:F:3756:GLU:N	2.12	0.48
5:G:469:LEU:HD13	5:G:518:LEU:HB2	1.94	0.48
6:H:188:HIS:HA	6:H:232:ARG:HG3	1.96	0.48
6:H:488:GLN:HA	6:H:491:PHE:CD2	2.49	0.48
6:H:598:PHE:O	6:H:602:VAL:HG13	2.13	0.48
7:I:39:DA:H2	8:J:18:DA:N7	2.12	0.48
4:A:54:GLN:OE1	4:A:98:GLN:NE2	2.46	0.48
4:A:524:TYR:CD2	4:A:629:PHE:HB2	2.48	0.48
4:A:534:LEU:O	4:A:561:ASN:ND2	2.41	0.48
4:A:767:GLU:HB2	4:A:846:ILE:HB	1.96	0.48
4:A:898:PHE:CE1	4:A:2566:THR:HG22	2.49	0.48
4:A:1104:LEU:HD12	4:A:1134:LEU:HD13	1.96	0.48
4:A:1717:LEU:HD22	4:A:1746:PHE:CE2	2.49	0.48
5:B:270:SER:HB3	5:B:374:LEU:HB2	1.95	0.48
5:B:297:LYS:HD3	5:B:299:LYS:NZ	2.29	0.48
5:B:452:ILE:HD12	6:C:378:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:492:ALA:O	5:B:496:ASP:N	2.46	0.48
6:C:47:PHE:CD2	6:C:491:PHE:HB3	2.49	0.48
6:C:244:SER:HA	9:D:23:DT:H2"	1.96	0.48
4:S:74:ASN:HD21	4:S:122:LYS:HB2	1.78	0.48
4:S:524:TYR:HB2	4:S:527:TYR:HB2	1.94	0.48
4:S:904:VAL:H	4:S:2819:GLU:HG3	1.78	0.48
4:S:966:PHE:HB2	4:S:967:PRO:HD3	1.96	0.48
4:S:1563:PHE:HB3	4:S:1566:THR:OG1	2.14	0.48
4:S:2254:ARG:CZ	4:S:2294:ILE:HG12	2.43	0.48
4:S:2260:PHE:HB3	4:S:2273:GLY:CA	2.42	0.48
4:S:3145:ILE:HD12	4:S:3192:LYS:HG3	1.95	0.48
4:S:3577:GLN:NE2	4:S:3623:PRO:HD2	2.29	0.48
1:K:88:PHE:CE1	1:K:113:LEU:HD12	2.49	0.48
1:N:98:GLU:HB3	1:N:107:ARG:HA	1.95	0.48
1:N:166:VAL:HA	1:N:169:LYS:HG2	1.96	0.48
1:O:70:LEU:HD12	1:O:109:GLY:HA2	1.95	0.48
2:P:790:GLU:O	2:P:793:ALA:HB3	2.14	0.48
4:F:933:LEU:HD13	4:F:2793:PRO:HG2	1.96	0.48
4:F:1173:LEU:HB2	4:F:1191:PHE:CE1	2.48	0.48
4:F:1179:PRO:HA	4:F:1259:LEU:HD13	1.96	0.48
4:F:1365:ASN:OD1	4:F:1370:ARG:NH1	2.47	0.48
4:F:1406:LEU:O	4:F:1412:LYS:HB3	2.13	0.48
4:F:1831:CYS:SG	4:F:1836:LEU:HB2	2.52	0.48
4:F:1935:GLU:O	4:F:1939:LEU:HG	2.14	0.48
4:F:2181:GLY:HA3	4:F:2184:TYR:HD2	1.78	0.48
4:F:3254:LEU:HD23	4:F:3287:ARG:CZ	2.44	0.48
4:F:3767:LEU:HD21	4:F:4001:THR:HG21	1.95	0.48
4:F:3887:PHE:HB3	4:F:3897:PHE:CZ	2.49	0.48
5:G:338:LYS:HG2	5:G:406:ILE:HA	1.94	0.48
5:G:414:VAL:O	5:G:432:PHE:HA	2.14	0.48
6:H:188:HIS:CE1	6:H:232:ARG:H	2.31	0.48
6:H:250:ARG:NH1	6:H:260:ARG:HE	2.10	0.48
6:H:675:TRP:HD1	6:H:679:VAL:HG23	1.79	0.48
4:A:387:GLU:HB3	4:A:391:ARG:HH12	1.79	0.48
4:A:1894:SER:OG	4:A:1896:ILE:O	2.32	0.48
4:A:3288:SER:HG	4:A:3289:ARG:NH1	2.12	0.48
4:A:3378:TYR:HA	4:A:3419:PHE:HZ	1.78	0.48
4:A:4100:GLU:O	4:A:4104:VAL:HG23	2.14	0.48
6:C:251:LEU:HA	6:C:340:PHE:C	2.34	0.48
6:C:342:VAL:HG12	6:C:393:VAL:HA	1.94	0.48
4:S:438:LEU:O	4:S:442:GLN:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1157:PHE:CZ	4:S:1167:ASP:HB3	2.48	0.48
4:S:1560:TYR:HA	4:S:1567:ILE:HD12	1.95	0.48
4:S:2214:ARG:HG2	4:S:2218:PHE:CZ	2.49	0.48
4:S:2335:ASN:OD1	4:S:2336:ILE:N	2.46	0.48
4:S:3327:ASN:HA	4:S:3330:LEU:HB3	1.96	0.48
4:S:3908:HIS:HD2	4:S:3928:PHE:HE1	1.61	0.48
6:U:314:PHE:O	6:U:320:ILE:HA	2.14	0.48
6:U:520:ALA:O	6:U:523:THR:OG1	2.27	0.48
1:K:57:ASP:HB2	3:R:64:ARG:HB2	1.95	0.48
1:K:173:GLU:HB2	1:L:172:LEU:HD21	1.96	0.48
2:M:713:ILE:HG13	2:M:720:VAL:HG21	1.96	0.48
2:M:793:ALA:O	2:M:814:ARG:HB3	2.14	0.48
2:M:876:LYS:O	2:M:880:ARG:HG2	2.14	0.48
1:O:10:LEU:HD21	1:O:88:PHE:H	1.79	0.48
4:F:31:GLY:O	4:F:34:LEU:HB2	2.14	0.48
4:F:73:LEU:H	4:F:82:ARG:NH2	2.12	0.48
4:F:967:PRO:HA	4:F:970:LEU:HD12	1.95	0.48
4:F:1357:LYS:HD2	4:F:1410:PRO:HG3	1.95	0.48
4:F:1687:HIS:O	4:F:1745:LYS:NZ	2.47	0.48
4:F:1881:TYR:CD1	4:F:1951:VAL:HA	2.49	0.48
4:F:2444:PRO:HB2	4:F:2445:LYS:HZ3	1.79	0.48
4:F:2527:HIS:CE1	4:F:2529:THR:H	2.32	0.48
4:F:3526:PRO:HB3	4:F:3563:ASP:H	1.79	0.48
5:G:73:SER:HB3	5:G:245:LYS:HB2	1.96	0.48
5:G:75:ILE:CG1	5:G:111:PRO:HB2	2.44	0.48
5:G:351:LYS:HZ1	6:H:476:LEU:HB3	1.76	0.48
4:A:545:LEU:HB2	4:A:557:SER:HA	1.96	0.48
4:A:1195:VAL:HG11	4:A:1204:PRO:HA	1.96	0.48
4:A:2255:LEU:HA	4:A:2258:GLU:HG2	1.95	0.48
4:A:2891:ARG:O	4:A:2895:GLU:HG2	2.14	0.48
4:A:3360:LEU:HA	4:A:3363:SER:HB3	1.96	0.48
4:A:4053:GLY:HA2	4:A:4100:GLU:HB3	1.95	0.48
5:B:416:GLN:OE1	5:B:433:GLN:HB3	2.13	0.48
6:C:134:ILE:HB	6:C:163:PHE:HA	1.95	0.48
9:D:39:DA:H2''	9:D:40:DT:C6	2.48	0.48
4:S:105:VAL:HG23	4:S:108:LYS:HZ1	1.79	0.48
4:S:198:ARG:HH22	5:T:312:LEU:N	2.11	0.48
4:S:306:VAL:HA	4:S:309:LYS:HG3	1.95	0.48
4:S:532:ARG:HE	4:S:636:GLU:HG3	1.77	0.48
4:S:627:VAL:HG11	4:S:665:GLY:HA2	1.96	0.48
4:S:1030:GLY:HA2	4:S:1126:GLN:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1697:PRO:HB3	4:S:1752:LEU:HD23	1.95	0.48
4:S:3110:PHE:CD2	4:S:3135:LEU:HD11	2.46	0.48
4:S:3586:LYS:HA	4:S:3590:ASN:H	1.79	0.48
4:S:3733:ARG:NH2	4:S:4015:ASN:HD21	2.12	0.48
4:S:3944:HIS:ND1	4:S:3948:SER:OG	2.37	0.48
6:U:487:PHE:CE1	6:U:490:LEU:HD13	2.48	0.48
1:K:34:ILE:HG21	1:K:111:PHE:HB3	1.95	0.48
2:M:841:LYS:HB3	2:M:894:VAL:HG11	1.95	0.48
1:O:179:ARG:HB3	2:P:781:ILE:HD12	1.96	0.48
3:Q:107:ARG:HD2	3:Q:109:ARG:HH12	1.78	0.48
4:F:63:PHE:HA	4:F:66:LEU:HB2	1.95	0.48
4:F:114:VAL:HG13	4:F:119:ARG:HH21	1.78	0.48
4:F:146:GLU:HB3	4:F:149:ILE:HD13	1.95	0.48
4:F:175:TYR:CA	4:F:225:LYS:HG2	2.44	0.48
4:F:431:TYR:O	4:F:435:LEU:N	2.38	0.48
4:F:530:LEU:O	4:F:534:LEU:HG	2.13	0.48
4:F:741:ILE:HA	4:F:748:TYR:OH	2.14	0.48
4:F:1178:ARG:HB2	4:F:1184:ARG:HB2	1.94	0.48
4:F:1210:ASP:HA	4:F:1213:LYS:HE3	1.94	0.48
4:F:2365:ASN:OD1	4:F:2369:LYS:HG3	2.14	0.48
4:F:3176:MET:CE	4:F:3245:SER:HB3	2.43	0.48
4:F:3182:ILE:O	4:F:3185:ASN:HB2	2.14	0.48
4:F:3916:TRP:HD1	4:F:3960:PRO:HB2	1.78	0.48
5:G:59:PRO:HA	5:G:62:MET:HG3	1.95	0.48
4:A:728:SER:OG	4:A:729:CYS:N	2.47	0.48
4:A:926:THR:HG22	4:A:2800:ARG:NH1	2.29	0.48
4:A:3351:ILE:HG13	4:A:3351:ILE:O	2.14	0.48
4:A:3875:GLU:HA	4:A:3878:VAL:HG12	1.96	0.48
5:B:65:GLN:OE1	5:B:123:LYS:NZ	2.40	0.48
5:B:319:SER:O	6:C:277:THR:N	2.47	0.48
4:S:650:SER:O	4:S:654:ILE:HG13	2.14	0.48
4:S:852:ARG:HA	4:S:855:VAL:HB	1.96	0.48
4:S:889:GLU:H	4:S:891:ARG:HH21	1.62	0.48
4:S:1484:LEU:HD13	4:S:1531:LEU:HD13	1.94	0.48
4:S:1613:HIS:HA	4:S:1616:LEU:HD12	1.94	0.48
4:S:2511:ILE:HD12	4:S:2550:ILE:HD12	1.96	0.48
4:S:2782:ASP:O	4:S:2783:ILE:HD13	2.14	0.48
4:S:2974:GLU:O	4:S:2978:LYS:HB2	2.14	0.48
4:S:3091:LEU:HD21	4:S:3145:ILE:HG13	1.96	0.48
4:S:3870:SER:C	4:S:3874:ARG:HE	2.13	0.48
4:S:4055:ASN:O	4:S:4059:ILE:N	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:168:SER:H	6:U:192:PHE:HD2	1.62	0.48
6:U:618:ASN:HA	6:U:621:GLU:HG3	1.95	0.48
1:L:5:ILE:HG12	1:L:21:GLN:HB2	1.96	0.48
2:P:848:HIS:CE1	2:P:898:ILE:HD13	2.47	0.48
3:Q:153:LEU:HD22	3:R:157:LEU:HG	1.96	0.48
3:Q:161:ASP:HB2	3:R:160:LYS:NZ	2.29	0.48
4:F:173:LYS:HA	4:F:223:CYS:CB	2.44	0.48
4:F:733:LEU:O	4:F:736:LEU:HD23	2.14	0.48
4:F:859:LEU:HA	4:F:862:LEU:HG	1.94	0.48
4:F:1360:LYS:O	4:F:1363:LEU:HB2	2.14	0.48
4:F:1632:TRP:HA	4:F:1637:SER:HB3	1.94	0.48
4:F:3574:ALA:CB	4:F:3685:PRO:HG3	2.40	0.48
5:G:290:ARG:N	6:H:309:ASP:O	2.40	0.48
5:G:410:PHE:HB3	5:G:437:LEU:HB2	1.96	0.48
6:H:44:ARG:NH1	6:H:233:LYS:O	2.47	0.48
6:H:83:LEU:HD13	6:H:121:GLU:HG2	1.95	0.48
4:A:1009:LEU:HD22	4:A:1036:PHE:CD2	2.49	0.48
4:A:1149:LYS:O	4:A:1163:LEU:HB2	2.14	0.48
4:A:1177:GLY:O	4:A:1228:GLY:HA3	2.14	0.48
4:A:3101:TYR:O	4:A:3105:ASN:ND2	2.47	0.48
4:A:3720:ALA:HB3	4:A:3742:GLY:HA2	1.96	0.48
4:S:480:SER:HB3	4:S:567:GLU:HG3	1.96	0.48
4:S:1331:ASN:HA	4:S:1334:LYS:HB2	1.96	0.48
4:S:1749:ALA:O	4:S:1753:SER:N	2.41	0.48
4:S:2094:MET:HE2	4:S:2148:LYS:HB3	1.95	0.48
4:S:2158:ARG:O	4:S:2199:LEU:HD12	2.14	0.48
4:S:2164:TRP:HE3	4:S:2167:PRO:HB2	1.78	0.48
4:S:2559:THR:OG1	4:S:2798:ALA:O	2.27	0.48
4:S:3334:TYR:HD1	4:S:3359:ILE:HD11	1.79	0.48
4:S:3950:THR:N	4:S:4068:HIS:H	2.12	0.48
6:U:242:ARG:HB2	7:V:22:DA:H5'	1.95	0.48
6:U:335:SER:H	6:U:403:PRO:HD3	1.79	0.48
7:V:27:DC:H3'	7:V:28:DT:H2'	1.96	0.48
7:V:45:DG:H2''	8:W:13:DA:C5	2.49	0.48
3:X:128:PRO:HB3	3:Y:125:LEU:HD11	1.96	0.48
1:K:61:MET:HB3	3:R:114:GLY:N	2.28	0.47
1:K:98:GLU:HG2	1:K:107:ARG:HD3	1.96	0.47
2:M:824:ALA:HB3	2:M:831:THR:HG21	1.95	0.47
2:P:866:GLY:HA3	2:P:871:ARG:NH1	2.29	0.47
3:R:36:LEU:HD21	3:R:106:LEU:HD13	1.95	0.47
4:F:115:TYR:OH	4:F:159:GLU:OE1	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:225:LYS:NZ	4:F:274:LEU:HD23	2.28	0.47
4:F:328:ALA:HA	4:F:371:GLY:HA3	1.95	0.47
4:F:332:GLU:HB2	4:F:335:LYS:HD2	1.96	0.47
4:F:367:GLY:HA3	4:F:416:SER:HA	1.96	0.47
4:F:911:LEU:HB3	4:F:912:PRO:HD3	1.96	0.47
4:F:1119:LYS:HG3	4:F:1124:ILE:HG21	1.96	0.47
4:F:1611:GLN:HE21	4:F:1613:HIS:HB3	1.78	0.47
4:F:1958:GLU:HG2	4:F:1959:LEU:HD23	1.96	0.47
4:F:2154:GLU:HA	4:F:2157:PHE:CE1	2.49	0.47
4:F:2865:HIS:O	4:F:2869:LEU:N	2.46	0.47
4:F:3330:LEU:HD23	4:F:3384:HIS:CE1	2.49	0.47
4:F:3382:PHE:HB2	4:F:3419:PHE:CE2	2.49	0.47
4:F:3554:PHE:O	4:F:3558:ILE:HG12	2.14	0.47
5:G:173:ASP:OD1	5:G:174:ASN:N	2.46	0.47
5:G:305:THR:OG1	6:H:287:GLU:O	2.31	0.47
6:H:410:PRO:HA	6:H:419:LEU:HD13	1.95	0.47
6:H:645:GLU:O	6:H:648:LYS:HB2	2.14	0.47
7:I:21:DA:N3	8:J:35:DT:N3	2.59	0.47
8:J:25:DT:H5''	8:J:26:DT:C4	2.49	0.47
4:A:268:PRO:O	4:A:272:LEU:HG	2.13	0.47
4:A:767:GLU:OE2	4:A:854:ARG:NH2	2.47	0.47
5:B:488:ARG:HD2	5:B:501:GLU:OE2	2.13	0.47
6:C:346:CYS:O	6:C:390:VAL:N	2.47	0.47
4:S:203:GLU:O	4:S:207:GLN:HG2	2.14	0.47
4:S:826:PHE:HZ	4:S:836:LYS:HB3	1.78	0.47
4:S:1026:ARG:NH2	4:S:1122:GLY:HA3	2.29	0.47
4:S:1335:CYS:SG	4:S:1385:ASN:ND2	2.87	0.47
4:S:1816:ARG:CZ	6:U:671:LEU:HD22	2.44	0.47
4:S:1821:ASP:HA	4:S:1825:LEU:HD23	1.96	0.47
4:S:2102:LYS:O	4:S:2106:ARG:HG2	2.14	0.47
4:S:2160:TYR:HD2	4:S:2164:TRP:NE1	2.12	0.47
4:S:2742:MET:HE2	7:V:45:DG:H5''	1.95	0.47
4:S:2815:GLY:HA2	4:S:2818:LYS:HG2	1.96	0.47
4:S:2852:PRO:HB2	4:S:2853:PRO:HD3	1.96	0.47
4:S:2966:SER:H	4:S:3253:SER:HB2	1.79	0.47
4:S:3097:ASP:OD1	4:S:3098:ARG:N	2.46	0.47
4:S:3395:GLU:HB3	4:S:3409:VAL:HG21	1.96	0.47
4:S:3986:HIS:HA	4:S:3989:ARG:HH21	1.78	0.47
6:U:247:TRP:CD1	6:U:338:LYS:HE3	2.49	0.47
3:Y:58:ALA:HB1	3:Y:65:LEU:HD23	1.95	0.47
1:K:4:LYS:HA	1:K:129:TYR:OH	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:5:ILE:HD13	1:L:126:LEU:HD12	1.96	0.47
2:M:694:GLY:HA2	5:B:290:ARG:HH12	1.77	0.47
4:F:325:ASN:O	4:F:329:LYS:HG2	2.14	0.47
4:F:1013:ILE:HG22	4:F:1014:LEU:HD22	1.95	0.47
4:F:1334:LYS:O	4:F:1338:VAL:HG23	2.15	0.47
4:F:1389:VAL:O	4:F:1392:MET:HG2	2.13	0.47
4:F:1534:ASN:O	4:F:1554:SER:HB2	2.13	0.47
4:F:1865:THR:O	4:F:1868:THR:OG1	2.27	0.47
4:F:1958:GLU:HG2	4:F:1959:LEU:N	2.29	0.47
4:F:2562:LEU:HA	4:F:2565:MET:HE3	1.96	0.47
4:F:3948:SER:HA	4:F:3951:GLN:HB2	1.97	0.47
6:H:131:HIS:ND1	6:H:219:ASP:HA	2.29	0.47
6:H:147:LEU:O	6:H:151:ILE:HG12	2.14	0.47
6:H:247:TRP:HB3	6:H:263:ALA:HB3	1.96	0.47
6:H:249:CYS:SG	6:H:250:ARG:N	2.87	0.47
6:H:274:LYS:HZ1	6:H:277:THR:HG22	1.79	0.47
6:H:489:ARG:HB2	6:H:508:ILE:HG13	1.96	0.47
7:I:20:DT:H3'	8:J:37:DG:C6	2.49	0.47
7:I:20:DT:H5'	8:J:37:DG:C2	2.49	0.47
4:A:92:PHE:HA	4:A:96:MET:SD	2.55	0.47
4:A:232:CYS:HB3	4:A:278:HIS:NE2	2.29	0.47
4:A:306:VAL:HA	4:A:309:LYS:HE2	1.95	0.47
4:A:1601:LEU:HD13	4:A:1651:LYS:HB3	1.96	0.47
4:A:2862:SER:HA	4:A:2868:LEU:HB3	1.96	0.47
4:A:2934:GLY:HA2	4:A:2936:TYR:CZ	2.49	0.47
4:A:3639:GLU:HA	4:A:3642:LYS:HG2	1.96	0.47
4:A:3776:ALA:HB1	4:A:3777:GLN:NE2	2.29	0.47
4:A:3836:PRO:HB3	4:A:4127:TRP:CZ2	2.49	0.47
4:A:4055:ASN:ND2	4:A:4097:GLY:H	2.12	0.47
5:B:89:GLY:N	5:B:101:ASN:O	2.47	0.47
5:B:534:TYR:CZ	6:C:260:ARG:HD3	2.48	0.47
9:D:23:DT:OP1	10:E:34:DT:H1'	2.15	0.47
4:S:1026:ARG:HA	4:S:1029:CYS:SG	2.54	0.47
4:S:1801:VAL:HG23	4:S:1824:LEU:HD11	1.96	0.47
4:S:2140:LEU:HD23	4:S:2143:ARG:HH11	1.79	0.47
4:S:2295:GLN:N	4:S:2295:GLN:OE1	2.48	0.47
4:S:2376:ASP:HA	4:S:2379:MET:HG2	1.96	0.47
4:S:3003:ASN:HA	4:S:3011:LEU:HD21	1.96	0.47
4:S:3118:ASP:HB3	4:S:3121:LEU:HD13	1.96	0.47
4:S:3235:LYS:HA	4:S:3238:MET:HG2	1.95	0.47
4:S:3389:VAL:HG11	4:S:3413:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:4094:PRO:HG2	4:S:4098:LEU:HD13	1.96	0.47
5:T:67:ILE:HA	5:T:70:VAL:HG22	1.95	0.47
5:T:415:PRO:HA	5:T:432:PHE:CE1	2.49	0.47
5:T:478:PHE:CG	6:U:405:VAL:HG21	2.49	0.47
6:U:60:GLY:N	6:U:76:ASN:O	2.42	0.47
6:U:315:ARG:HA	6:U:315:ARG:HD2	1.58	0.47
3:X:12:PRO:HB2	3:X:215:GLN:OE1	2.13	0.47
1:L:3:ARG:HH21	1:L:122:VAL:HG22	1.79	0.47
2:M:811:SER:HB2	2:M:814:ARG:HE	1.79	0.47
2:M:820:LEU:HD21	2:M:841:LYS:HB2	1.96	0.47
3:Q:218:TYR:HA	3:Q:221:VAL:HG12	1.96	0.47
4:F:85:ILE:O	4:F:89:LEU:HD23	2.15	0.47
4:F:197:PHE:HE1	4:F:232:CYS:HG	1.60	0.47
4:F:710:PHE:O	4:F:714:VAL:HG22	2.14	0.47
4:F:1052:SER:OG	4:F:1054:VAL:O	2.30	0.47
4:F:1307:ILE:HG13	4:F:1308:ALA:H	1.79	0.47
4:F:2173:ALA:HA	4:F:2214:ARG:HH12	1.79	0.47
4:F:2230:VAL:O	4:F:2233:HIS:HB3	2.14	0.47
4:F:2238:ILE:O	4:F:2241:LEU:HG	2.14	0.47
4:F:2301:GLN:HA	4:F:2304:VAL:HG22	1.96	0.47
4:F:2310:VAL:HG13	4:F:2316:TYR:OH	2.14	0.47
4:F:2555:LEU:HB3	4:F:2809:PHE:HE2	1.78	0.47
4:F:2750:GLU:O	4:F:2754:GLU:HG2	2.15	0.47
4:F:2890:ILE:HG23	4:F:2926:LEU:HD11	1.96	0.47
4:F:3087:SER:HB3	4:F:3102:TYR:HB2	1.96	0.47
5:G:352:PRO:HB3	5:G:393:GLU:OE2	2.14	0.47
5:G:362:LEU:HD23	5:G:362:LEU:HA	1.78	0.47
6:H:147:LEU:HD23	6:H:147:LEU:H	1.79	0.47
8:J:18:DA:H2'	8:J:19:DA:C4	2.50	0.47
4:A:650:SER:O	4:A:654:ILE:HG13	2.14	0.47
4:A:1105:VAL:HG11	4:A:1157:PHE:HB2	1.96	0.47
4:A:1181:THR:HA	4:A:1184:ARG:NH2	2.29	0.47
4:A:1394:HIS:HA	4:A:1397:ASP:HB2	1.95	0.47
4:A:2154:GLU:HB2	4:A:2196:TRP:HE1	1.80	0.47
4:A:2490:GLU:HB3	4:A:2496:GLN:HE21	1.79	0.47
4:A:3458:SER:OG	4:A:3460:GLU:OE1	2.23	0.47
4:A:3463:LEU:HA	4:A:3498:TRP:CZ2	2.49	0.47
4:A:3472:ILE:HD11	4:A:3479:THR:O	2.14	0.47
4:A:3839:TYR:OH	4:A:4120:THR:N	2.48	0.47
4:A:3909:ALA:HB2	4:A:3980:MET:SD	2.55	0.47
5:B:271:VAL:HA	5:B:370:PRO:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:166:PRO:HA	6:C:227:PHE:CD2	2.50	0.47
4:S:329:LYS:HB3	4:S:329:LYS:HE2	1.74	0.47
4:S:750:PRO:HA	4:S:753:GLN:HB2	1.97	0.47
4:S:1184:ARG:HE	4:S:1262:ALA:HA	1.79	0.47
4:S:1260:LEU:HD21	4:S:1297:PHE:CZ	2.50	0.47
4:S:1491:ILE:HG21	4:S:1558:TYR:CE2	2.48	0.47
4:S:1560:TYR:O	4:S:1564:SER:N	2.47	0.47
4:S:2436:LEU:HD21	4:S:2461:PHE:HD2	1.79	0.47
4:S:3254:LEU:HB3	4:S:3283:LEU:HD12	1.96	0.47
4:S:3328:ILE:HD11	4:S:3412:ALA:HB2	1.95	0.47
4:S:4060:THR:HG21	4:S:4115:ASN:HD21	1.79	0.47
5:T:328:ILE:HG13	6:U:284:LEU:HD22	1.95	0.47
5:T:354:VAL:HG23	5:T:355:LEU:H	1.78	0.47
5:T:407:PRO:HG3	6:U:486:ARG:HA	1.96	0.47
6:U:46:VAL:O	6:U:238:LYS:N	2.47	0.47
6:U:108:LEU:HD12	6:U:149:ILE:HB	1.95	0.47
6:U:129:LYS:HE3	6:U:217:GLY:HA3	1.96	0.47
3:X:210:PHE:CE1	3:Y:140:MET:HG2	2.49	0.47
3:Y:198:LEU:O	3:Y:202:CYS:N	2.47	0.47
1:N:124:ARG:HA	1:N:127:ILE:HG12	1.96	0.47
1:N:174:THR:HG22	1:N:178:LYS:HZ2	1.78	0.47
2:P:863:VAL:HB	2:P:875:PHE:CE1	2.50	0.47
3:Q:106:LEU:O	3:Q:108:VAL:N	2.45	0.47
4:F:997:ASN:HA	4:F:1043:GLN:HG3	1.96	0.47
4:F:1458:LEU:O	4:F:1463:LEU:N	2.46	0.47
4:F:1505:LEU:HA	4:F:1508:LYS:HB2	1.95	0.47
4:F:1685:ASP:OD1	4:F:1686:LEU:N	2.47	0.47
4:F:1766:LEU:HD13	4:F:1778:PHE:CG	2.50	0.47
4:F:2123:PRO:HA	4:F:2127:LYS:HG2	1.94	0.47
4:F:2224:PHE:HA	4:F:2231:PHE:CE1	2.49	0.47
4:F:3228:SER:HA	4:F:3231:ILE:HG12	1.96	0.47
4:F:3265:GLU:HB2	4:F:3272:TRP:NE1	2.30	0.47
4:F:3338:ALA:HB2	4:F:3377:LEU:HB3	1.95	0.47
4:F:3958:LEU:HD12	4:F:3958:LEU:HA	1.75	0.47
5:G:256:LEU:HD23	5:G:274:TYR:CE2	2.50	0.47
5:G:471:PHE:HB2	6:H:344:GLY:HA3	1.97	0.47
6:H:89:ASP:N	6:H:89:ASP:OD1	2.46	0.47
4:A:297:LEU:HD13	4:A:316:LEU:HA	1.95	0.47
4:A:328:ALA:HB1	4:A:375:VAL:HG21	1.96	0.47
4:A:894:PHE:CE2	4:A:896:VAL:HG22	2.50	0.47
4:A:988:VAL:O	4:A:991:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1151:ARG:H	4:A:1163:LEU:HD23	1.79	0.47
4:A:1366:THR:O	4:A:1418:HIS:NE2	2.47	0.47
4:A:2240:THR:O	4:A:2244:CYS:HB3	2.14	0.47
4:A:3592:VAL:HG13	4:A:3606:ILE:HB	1.96	0.47
4:A:3687:MET:HA	4:A:3690:PHE:HB2	1.97	0.47
6:C:7:LYS:HD2	6:C:53:GLU:HG3	1.95	0.47
6:C:105:ALA:N	6:C:140:SER:OG	2.33	0.47
4:S:718:MET:HE2	4:S:751:ALA:HA	1.96	0.47
4:S:894:PHE:HD2	4:S:905:ILE:HG13	1.79	0.47
4:S:1142:HIS:O	4:S:1146:ASN:N	2.40	0.47
4:S:1203:SER:N	4:S:1204:PRO:HD3	2.30	0.47
4:S:1414:ILE:HD12	4:S:1418:HIS:HE1	1.80	0.47
4:S:1714:LEU:O	4:S:1718:ILE:HG12	2.15	0.47
4:S:2386:LEU:HB3	4:S:2418:LYS:HZ3	1.79	0.47
4:S:2880:CYS:HB2	4:S:2885:GLN:O	2.15	0.47
4:S:3016:THR:O	4:S:3019:ILE:HG23	2.14	0.47
4:S:3033:GLU:HB2	4:S:3034:PRO:HD3	1.97	0.47
4:S:3573:ASN:HB3	4:S:3623:PRO:HG2	1.96	0.47
4:S:3810:VAL:HG12	4:S:3930:VAL:HG11	1.95	0.47
5:T:81:ASP:N	5:T:110:ASN:OD1	2.43	0.47
5:T:131:PHE:O	5:T:136:GLY:N	2.47	0.47
6:U:16:VAL:N	6:U:59:PHE:O	2.31	0.47
6:U:41:PHE:CD1	6:U:44:ARG:HD2	2.49	0.47
6:U:265:LYS:HG2	6:U:362:LEU:HA	1.96	0.47
6:U:306:LEU:HB2	6:U:308:GLU:HG2	1.97	0.47
6:U:339:CYS:HB2	6:U:396:ALA:HB3	1.97	0.47
1:N:155:TRP:NE1	1:O:154:ASP:HB3	2.29	0.47
3:Q:109:ARG:HH21	3:Q:119:TRP:N	2.13	0.47
3:R:5:GLU:HB2	3:R:130:LEU:HD21	1.96	0.47
4:F:18:THR:O	4:F:22:ALA:N	2.39	0.47
4:F:623:PHE:O	4:F:626:LEU:HG	2.14	0.47
4:F:738:HIS:HA	4:F:741:ILE:HG12	1.96	0.47
4:F:802:THR:HG21	4:F:922:SER:OG	2.13	0.47
4:F:950:GLU:H	4:F:955:ALA:HB1	1.80	0.47
4:F:1221:ILE:HD11	4:F:1229:CYS:HA	1.95	0.47
4:F:1773:VAL:O	4:F:1773:VAL:HG12	2.15	0.47
4:F:1878:ASP:N	4:F:1878:ASP:OD1	2.47	0.47
4:F:2161:ALA:HA	4:F:2164:TRP:HB2	1.95	0.47
4:F:2587:GLN:HE21	4:F:2777:HIS:CD2	2.31	0.47
4:F:3866:GLU:OE2	4:F:3867:THR:OG1	2.33	0.47
4:F:3924:HIS:HD2	4:F:3926:ASN:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:259:LEU:HB2	5:G:273:ILE:HD11	1.96	0.47
5:G:444:ARG:HH12	7:I:23:DT:P	2.38	0.47
6:H:28:GLU:HG3	6:H:33:GLN:HB3	1.95	0.47
6:H:345:PHE:HB3	6:H:389:MET:SD	2.54	0.47
6:H:411:HIS:NE2	6:H:416:TYR:O	2.48	0.47
7:I:35:DT:H2'	7:I:36:DA:O4'	2.13	0.47
4:A:385:TYR:HA	4:A:388:LEU:HD12	1.96	0.47
4:A:391:ARG:CZ	4:A:1737:ASN:HD21	2.27	0.47
4:A:392:CYS:HA	4:A:396:PHE:CD2	2.49	0.47
4:A:1017:ILE:HG21	4:A:1077:GLY:CA	2.45	0.47
4:A:1749:ALA:O	4:A:1753:SER:HB3	2.14	0.47
4:A:2203:THR:HA	4:A:2248:CYS:SG	2.54	0.47
4:A:2959:ALA:N	4:A:2962:ARG:HH21	2.13	0.47
4:A:3316:LEU:HB3	4:A:3326:GLN:OE1	2.15	0.47
4:A:3472:ILE:HD13	4:A:3483:MET:HE3	1.97	0.47
4:A:4046:TYR:CZ	4:A:4061:CYS:HB3	2.50	0.47
4:A:4073:ALA:HB1	4:A:4076:ASP:HB2	1.95	0.47
5:B:336:GLU:CD	5:B:405:ASN:HD21	2.17	0.47
6:C:463:LEU:HA	6:C:476:LEU:HD12	1.95	0.47
4:S:1154:PRO:HD3	4:S:1163:LEU:HD21	1.97	0.47
4:S:2223:VAL:CG2	4:S:2234:ASN:HB3	2.44	0.47
4:S:2464:HIS:ND1	4:S:2469:CYS:SG	2.87	0.47
4:S:2773:ARG:NH2	4:S:2775:TYR:HA	2.30	0.47
4:S:2923:TRP:HZ3	4:S:3973:PRO:HA	1.79	0.47
4:S:3262:LEU:HA	4:S:3272:TRP:NE1	2.30	0.47
4:S:3629:ARG:HA	4:S:3632:PHE:HB2	1.96	0.47
5:T:254:ARG:NH1	7:V:35:DT:O4'	2.47	0.47
5:T:351:LYS:HG2	5:T:412:ALA:HB2	1.97	0.47
6:U:129:LYS:HD2	6:U:218:GLU:H	1.80	0.47
6:U:620:ILE:HG21	6:U:662:LEU:HD21	1.96	0.47
6:U:675:TRP:CD1	6:U:679:VAL:HG23	2.48	0.47
1:K:37:THR:HG23	1:K:42:ALA:HB2	1.97	0.47
1:K:135:ALA:HA	1:L:136:GLU:O	2.14	0.47
2:M:822:SER:HA	2:M:838:LEU:HD22	1.96	0.47
1:O:3:ARG:HA	1:O:23:SER:HA	1.96	0.47
1:O:67:VAL:O	1:O:71:ARG:HG2	2.14	0.47
4:F:157:TYR:CD1	4:F:192:ASN:HB3	2.50	0.47
4:F:697:ASP:HB2	4:F:700:LYS:HG2	1.97	0.47
4:F:1580:LEU:HA	4:F:1583:MET:HG3	1.97	0.47
4:F:2499:PHE:CZ	4:F:2503:LYS:HD3	2.50	0.47
4:F:2504:ASP:O	4:F:2508:GLN:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2838:GLN:HA	4:F:2841:ASN:HD22	1.80	0.47
4:F:3243:ILE:O	4:F:3247:ARG:HB3	2.14	0.47
4:F:3549:HIS:HA	4:F:3552:LYS:HG2	1.96	0.47
4:F:3996:GLY:C	4:F:4000:ASN:HD22	2.15	0.47
5:G:338:LYS:CG	5:G:407:PRO:HD3	2.44	0.47
5:G:363:ARG:HG3	5:G:436:PHE:CD1	2.50	0.47
5:G:526:LYS:HZ3	5:G:528:LEU:HB2	1.80	0.47
6:H:316:TYR:HB3	6:H:321:VAL:HG23	1.97	0.47
6:H:395:TYR:O	6:H:404:GLN:N	2.44	0.47
4:A:251:PHE:CE2	6:C:553:ILE:HB	2.48	0.47
4:A:634:LEU:HD23	4:A:672:ILE:HG13	1.95	0.47
4:A:639:ALA:O	4:A:643:GLU:N	2.47	0.47
4:A:911:LEU:HA	4:A:914:VAL:HG22	1.95	0.47
4:A:1055:ASN:HA	4:A:1062:ARG:NH1	2.29	0.47
4:A:1097:GLU:HB2	4:A:1151:ARG:HH11	1.79	0.47
4:A:1985:LYS:HA	4:A:2184:TYR:HB2	1.95	0.47
4:A:2488:GLU:OE1	4:A:2488:GLU:N	2.47	0.47
4:A:3481:SER:HA	4:A:3484:THR:OG1	2.15	0.47
4:A:3728:VAL:HA	4:A:3735:PRO:O	2.14	0.47
4:A:3864:ARG:NH2	4:A:4113:ASP:OD1	2.36	0.47
6:C:68:LEU:HD23	6:C:116:ASP:HB3	1.97	0.47
6:C:264:TYR:O	6:C:265:LYS:HG3	2.15	0.47
4:S:288:ASP:OD1	4:S:288:ASP:N	2.45	0.47
4:S:1037:LEU:HD22	4:S:1059:LEU:HD21	1.97	0.47
4:S:1340:ARG:NH2	4:S:1343:GLU:OE1	2.47	0.47
4:S:2165:LEU:HG	4:S:2200:ALA:HB1	1.97	0.47
4:S:2196:TRP:NE1	4:S:2200:ALA:HB3	2.30	0.47
4:S:2894:GLU:OE1	4:S:3901:ARG:NH2	2.47	0.47
4:S:3233:SER:HB3	4:S:3269:ARG:HH12	1.79	0.47
4:S:3533:PHE:HD1	4:S:3559:LYS:HA	1.80	0.47
5:T:49:PHE:HA	5:T:58:THR:HB	1.95	0.47
5:T:320:GLN:HB3	5:T:322:TYR:HD1	1.79	0.47
5:T:473:TYR:CZ	6:U:351:VAL:HB	2.50	0.47
6:U:59:PHE:HA	6:U:77:ILE:HA	1.95	0.47
3:X:48:GLN:HG3	3:X:135:LEU:HD21	1.97	0.47
1:K:18:HIS:CE1	1:K:90:LYS:HE3	2.48	0.47
1:K:59:MET:HB3	1:K:101:LEU:HD23	1.95	0.47
1:L:3:ARG:HB2	1:L:21:GLN:HG2	1.96	0.47
1:O:154:ASP:O	1:O:158:VAL:HG23	2.15	0.47
2:P:681:ARG:HE	2:P:730:PHE:HD2	1.62	0.47
2:P:891:GLU:O	2:P:895:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:117:PHE:CE2	3:Q:119:TRP:HB2	2.50	0.47
4:F:36:ARG:O	4:F:40:GLN:NE2	2.28	0.47
4:F:153:PHE:HA	4:F:156:PHE:CD2	2.48	0.47
4:F:226:GLY:HA2	4:F:229:SER:OG	2.15	0.47
4:F:527:TYR:HB2	4:F:629:PHE:CE1	2.49	0.47
4:F:736:LEU:HD12	4:F:740:ILE:HD11	1.97	0.47
4:F:1136:ARG:O	4:F:1139:GLU:HG3	2.14	0.47
4:F:1376:LEU:HD22	4:F:1399:CYS:SG	2.55	0.47
4:F:1436:LEU:HD23	4:F:1436:LEU:H	1.80	0.47
4:F:1538:LEU:HD22	4:F:1551:ILE:HG23	1.96	0.47
4:F:1627:LYS:HG2	4:F:1670:GLU:CD	2.35	0.47
4:F:1867:ILE:O	4:F:1871:MET:HG2	2.15	0.47
4:F:2323:LEU:HD23	4:F:2326:ILE:HD12	1.95	0.47
4:F:2412:TYR:CE1	4:F:2450:GLU:HB3	2.50	0.47
4:F:3413:TYR:CB	4:F:3453:ALA:HB2	2.43	0.47
4:F:3571:PHE:CD1	4:F:3699:LEU:HD13	2.50	0.47
4:F:3851:ASP:HB2	4:F:3854:ALA:HB3	1.95	0.47
4:F:4094:PRO:HB2	4:F:4098:LEU:HD13	1.97	0.47
5:G:64:ILE:HD13	5:G:67:ILE:HD11	1.96	0.47
5:G:85:VAL:HG21	5:G:105:LEU:HD23	1.96	0.47
5:G:206:LYS:H	5:G:213:ILE:HD13	1.80	0.47
5:G:271:VAL:HB	5:G:368:VAL:HG13	1.96	0.47
5:G:273:ILE:HA	5:G:367:PHE:O	2.14	0.47
5:G:343:PRO:HD3	5:G:404:ARG:HG3	1.97	0.47
5:G:387:ILE:HG21	6:H:446:PRO:HG3	1.97	0.47
5:G:400:TYR:CZ	5:G:402:PRO:HA	2.49	0.47
6:H:63:GLY:N	6:H:103:GLN:OE1	2.43	0.47
6:H:205:LEU:HA	6:H:208:VAL:HG12	1.97	0.47
6:H:234:LEU:HB3	6:H:488:GLN:OE1	2.15	0.47
6:H:393:VAL:N	6:H:406:GLY:O	2.34	0.47
6:H:499:LEU:HB3	6:H:500:HIS:CD2	2.49	0.47
8:J:35:DT:H2''	8:J:36:DG:O4'	2.15	0.47
4:A:198:ARG:HH21	5:B:312:LEU:HD12	1.79	0.47
4:A:201:LEU:HB2	4:A:249:PHE:CE2	2.48	0.47
4:A:301:CYS:HB2	4:A:313:LEU:HG	1.95	0.47
4:A:708:VAL:O	4:A:712:LYS:HG2	2.15	0.47
4:A:926:THR:HG22	4:A:2800:ARG:HD2	1.95	0.47
4:A:969:LEU:HA	4:A:984:TYR:OH	2.14	0.47
4:A:1110:SER:HA	4:A:1113:LEU:HD12	1.97	0.47
4:A:1235:ILE:HD11	4:A:1293:ALA:HB2	1.96	0.47
4:A:1568:ASN:ND2	4:A:1606:ARG:HH22	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1603:GLN:O	4:A:1603:GLN:NE2	2.47	0.47
4:A:1923:PHE:HB2	4:A:1975:LEU:HD21	1.97	0.47
4:A:2189:ILE:O	4:A:2193:ILE:HG13	2.14	0.47
4:A:2976:LEU:HD13	4:A:2994:TRP:HB2	1.97	0.47
4:A:3269:ARG:HB3	4:A:3271:ASP:OD1	2.15	0.47
4:A:3705:TYR:OH	4:A:3712:LEU:HB3	2.14	0.47
5:B:247:ARG:HH22	5:B:488:ARG:HA	1.80	0.47
5:B:369:TYR:HD1	5:B:370:PRO:O	1.97	0.47
5:B:469:LEU:HD22	5:B:511:VAL:HB	1.95	0.47
6:C:14:MET:SD	6:C:38:ILE:HG21	2.54	0.47
6:C:52:ASP:N	6:C:52:ASP:OD1	2.48	0.47
6:C:203:GLU:O	6:C:206:GLU:HG3	2.15	0.47
4:S:145:ASP:OD1	4:S:145:ASP:N	2.47	0.47
4:S:149:ILE:HD11	4:S:183:GLU:N	2.29	0.47
4:S:178:LEU:CB	4:S:227:LEU:HD12	2.42	0.47
4:S:367:GLY:HA3	4:S:416:SER:HA	1.97	0.47
4:S:488:ILE:HD11	4:S:575:ILE:HD12	1.96	0.47
4:S:670:LEU:HG	4:S:710:PHE:HZ	1.79	0.47
4:S:1377:CYS:HA	4:S:1454:ALA:HB2	1.97	0.47
4:S:1484:LEU:O	4:S:1488:TYR:CB	2.62	0.47
4:S:1775:GLU:O	4:S:1778:PHE:N	2.48	0.47
4:S:1826:THR:OG1	4:S:1827:LEU:N	2.47	0.47
4:S:1841:SER:HA	4:S:1844:VAL:HG23	1.96	0.47
4:S:1864:ASP:OD1	4:S:1864:ASP:N	2.46	0.47
4:S:2380:ASN:O	4:S:2384:PHE:HB2	2.14	0.47
4:S:2576:MET:SD	4:S:2790:LEU:HD22	2.55	0.47
4:S:3300:VAL:HG11	4:S:3359:ILE:HG21	1.96	0.47
4:S:3583:LEU:HB3	4:S:3755:GLY:HA3	1.97	0.47
4:S:3764:VAL:HG22	4:S:4002:MET:HG2	1.95	0.47
5:T:95:ASN:HB2	5:T:149:VAL:HG21	1.97	0.47
5:T:404:ARG:NH2	7:V:32:DA:H5 ⁷	2.30	0.47
5:T:418:GLU:OE1	6:U:438:LEU:HB3	2.15	0.47
6:U:47:PHE:HA	6:U:238:LYS:HA	1.95	0.47
6:U:247:TRP:HD1	6:U:338:LYS:HE3	1.79	0.47
6:U:300:ASP:N	6:U:300:ASP:OD1	2.47	0.47
6:U:508:ILE:HG12	6:U:512:ILE:HG21	1.96	0.47
6:U:636:ILE:HG22	6:U:678:VAL:HG22	1.95	0.47
3:X:144:LEU:HD13	3:Y:204:ILE:HG13	1.95	0.47
2:M:774:LEU:HD12	2:M:774:LEU:HA	1.74	0.47
1:O:174:THR:HA	2:P:792:MET:SD	2.54	0.47
3:Q:136:ILE:HG21	3:R:41:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:146:LEU:HD11	3:Q:214:LEU:HD11	1.97	0.47
3:Q:146:LEU:HB3	3:R:146:LEU:HB3	1.95	0.47
3:R:37:LEU:HA	3:R:45:TRP:O	2.15	0.47
3:R:44:VAL:HG11	3:R:131:VAL:HG22	1.96	0.47
4:F:386:VAL:O	4:F:390:GLN:HG2	2.14	0.47
4:F:584:GLU:O	4:F:613:HIS:N	2.36	0.47
4:F:1251:GLN:OE1	4:F:1251:GLN:N	2.35	0.47
4:F:1255:CYS:HA	4:F:1258:ASP:OD2	2.15	0.47
4:F:1384:PHE:HB2	4:F:1386:ILE:HG12	1.97	0.47
4:F:1613:HIS:HA	4:F:1616:LEU:HB2	1.97	0.47
4:F:1620:THR:O	4:F:1624:GLN:HG2	2.15	0.47
4:F:1623:LEU:HG	4:F:1671:VAL:HG11	1.96	0.47
4:F:1637:SER:O	4:F:1642:LYS:HE2	2.15	0.47
4:F:1797:LEU:O	4:F:1800:SER:OG	2.26	0.47
4:F:2493:ASN:ND2	4:F:2496:GLN:OE1	2.47	0.47
4:F:2533:SER:HA	4:F:2538:ARG:HH21	1.79	0.47
4:F:3009:LYS:HE3	4:F:3013:TYR:CE1	2.50	0.47
4:F:3029:LYS:HE2	4:F:3067:LYS:NZ	2.29	0.47
4:F:3091:LEU:HA	4:F:3095:ASP:O	2.14	0.47
4:F:3337:ILE:HG21	4:F:3360:LEU:HD21	1.96	0.47
5:G:263:LEU:HB2	5:G:267:ILE:HD11	1.96	0.47
5:G:329:LEU:HG	5:G:330:GLU:H	1.78	0.47
6:H:265:LYS:HD3	6:H:268:LEU:HD13	1.97	0.47
4:A:631:ARG:NH1	4:A:668:LYS:HA	2.30	0.47
4:A:1092:GLU:OE2	4:A:1094:SER:OG	2.24	0.47
4:A:1218:SER:OG	4:A:1285:GLU:N	2.33	0.47
4:A:1474:ASP:OD1	4:A:1474:ASP:N	2.47	0.47
4:A:3546:SER:O	4:A:3550:LYS:NZ	2.42	0.47
4:A:3781:CYS:HB2	4:A:3784:ARG:HG2	1.97	0.47
4:S:153:PHE:CE2	4:S:188:GLU:HB3	2.49	0.47
4:S:320:LEU:HA	4:S:323:VAL:HG22	1.97	0.47
4:S:995:PHE:CE1	4:S:1008:ALA:HB1	2.49	0.47
4:S:1403:MET:SD	4:S:1458:LEU:HD23	2.55	0.47
4:S:1879:VAL:HG22	4:S:1883:ARG:NH1	2.23	0.47
4:S:2552:VAL:HA	4:S:2851:PHE:CD2	2.50	0.47
4:S:2773:ARG:HG2	4:S:2774:SER:H	1.80	0.47
4:S:2962:ARG:NH2	4:S:3289:ARG:HB2	2.30	0.47
4:S:3808:ASN:HB3	4:S:3938:ILE:HD11	1.96	0.47
5:T:400:TYR:O	5:T:409:TYR:N	2.41	0.47
5:T:400:TYR:N	5:T:409:TYR:O	2.35	0.47
6:U:666:VAL:HG21	6:U:678:VAL:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:161:ARG:HH22	2:P:837:ARG:HD2	1.79	0.47
1:O:98:GLU:HA	1:O:107:ARG:HA	1.96	0.47
2:P:879:ARG:HD2	2:P:888:ILE:HD11	1.97	0.47
3:Q:54:VAL:HG22	3:Q:57:ARG:HH21	1.78	0.47
3:Q:164:ILE:HG12	3:R:163:GLU:HG2	1.97	0.47
4:F:853:ILE:HG22	4:F:854:ARG:HH22	1.79	0.47
4:F:983:LEU:HB3	4:F:2591:ILE:HG13	1.96	0.47
4:F:1029:CYS:O	4:F:1033:ILE:HG12	2.15	0.47
4:F:1453:SER:O	4:F:1457:GLN:HG3	2.15	0.47
4:F:1879:VAL:O	4:F:1883:ARG:HG2	2.15	0.47
4:F:2166:SER:O	4:F:2169:LEU:N	2.48	0.47
4:F:2375:ALA:HA	4:F:2378:PHE:HD1	1.80	0.47
4:F:2420:PHE:CE1	4:F:2424:MET:HB3	2.50	0.47
4:F:2860:ASP:OD1	4:F:2888:VAL:HG21	2.15	0.47
4:F:3887:PHE:HB3	4:F:3897:PHE:CE1	2.49	0.47
4:F:3913:ILE:HD12	4:F:3916:TRP:HB3	1.97	0.47
4:A:61:ARG:HH12	4:A:106:GLU:CD	2.18	0.47
4:A:174:VAL:O	4:A:178:LEU:HG	2.14	0.47
4:A:334:HIS:O	4:A:338:LEU:N	2.36	0.47
4:A:446:PHE:CZ	4:A:451:PRO:HB3	2.50	0.47
4:A:649:PHE:CE2	4:A:669:LEU:HD21	2.49	0.47
4:A:977:ASP:O	4:A:981:ARG:HG2	2.15	0.47
4:A:1801:VAL:O	4:A:1805:PHE:HB3	2.15	0.47
4:A:1806:ARG:NE	4:A:1846:ASP:OD2	2.48	0.47
4:A:2551:GLU:HB2	4:A:2854:PHE:CG	2.50	0.47
4:A:3038:GLU:HA	4:A:3041:LEU:HG	1.96	0.47
4:A:3767:LEU:HD13	4:A:3918:LEU:HD22	1.96	0.47
5:B:348:MET:SD	5:B:399:ARG:HG3	2.55	0.47
5:B:388:LYS:HD3	6:C:451:LEU:HD13	1.97	0.47
5:B:389:CYS:HA	5:B:392:LYS:HG2	1.96	0.47
6:C:457:LEU:HA	6:C:526:SER:OG	2.15	0.47
4:S:566:ASP:HA	4:S:645:TRP:HZ2	1.80	0.47
4:S:1102:GLU:HG3	4:S:1152:ARG:HB3	1.96	0.47
4:S:1871:MET:HG2	4:S:1875:LYS:HD2	1.97	0.47
4:S:2339:GLU:HA	4:S:2342:CYS:HB2	1.96	0.47
4:S:2432:GLN:HA	4:S:2435:CYS:HB3	1.96	0.47
4:S:2897:LEU:HD11	4:S:2923:TRP:CG	2.50	0.47
4:S:3151:LEU:HB2	4:S:3197:LEU:N	2.29	0.47
4:S:3842:TRP:HA	4:S:3858:MET:HA	1.96	0.47
4:S:4038:TRP:CZ3	4:S:4040:PRO:HA	2.49	0.47
4:S:4047:ALA:HA	4:S:4050:LYS:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:161:LEU:N	6:U:211:VAL:HG11	2.17	0.47
8:W:17:DT:H2'	8:W:18:DA:C4	2.50	0.47
3:Y:216:ASP:N	3:Y:216:ASP:OD1	2.47	0.47
1:K:150:ARG:HG3	1:K:153:ARG:HH21	1.79	0.47
1:L:196:ASN:HA	1:L:199:LEU:HD12	1.96	0.47
2:P:844:GLU:OE1	2:P:895:THR:HA	2.15	0.47
3:Q:45:TRP:CE2	3:Q:104:LEU:HB2	2.49	0.47
3:Q:175:ILE:HD13	3:R:166:ASP:HB3	1.95	0.47
4:F:35:ILE:O	4:F:38:LEU:HB3	2.15	0.47
4:F:135:LEU:HA	4:F:138:PHE:CD2	2.49	0.47
4:F:967:PRO:HD3	4:F:1011:GLU:OE2	2.15	0.47
4:F:987:LEU:O	4:F:991:LEU:HG	2.15	0.47
4:F:1112:ALA:O	4:F:1180:GLN:HG2	2.15	0.47
4:F:1326:GLU:HB3	4:F:1329:ARG:HB3	1.97	0.47
4:F:1783:ARG:HD2	4:F:1830:HIS:CE1	2.50	0.47
4:F:1952:ILE:HG22	4:F:2103:HIS:CE1	2.49	0.47
4:F:2365:ASN:O	4:F:2369:LYS:N	2.42	0.47
4:F:3496:ILE:O	4:F:3499:ILE:HB	2.14	0.47
4:F:3550:LYS:O	4:F:3553:GLU:HG2	2.15	0.47
6:H:186:GLY:HA3	6:H:514:ASN:OD1	2.15	0.47
4:A:741:ILE:HG13	4:A:776:TRP:NE1	2.30	0.47
4:A:1234:GLY:HA2	4:A:1259:LEU:HD13	1.97	0.47
4:A:1927:MET:SD	4:A:1934:LEU:HB3	2.55	0.47
4:A:3953:LEU:HB2	4:A:4068:HIS:CD2	2.50	0.47
5:B:426:GLN:HG3	5:B:429:PRO:HB3	1.96	0.47
5:B:478:PHE:HB2	6:C:426:PHE:CD1	2.45	0.47
6:C:47:PHE:HD2	6:C:238:LYS:HZ1	1.62	0.47
6:C:165:LEU:HB2	6:C:224:ILE:HG23	1.97	0.47
4:S:895:ALA:HB1	4:S:902:LYS:HB3	1.96	0.47
4:S:2279:ILE:O	4:S:2283:ASN:ND2	2.48	0.47
4:S:3385:LEU:HA	4:S:3388:ALA:HB3	1.96	0.47
4:S:3751:LEU:HB3	4:S:3803:ILE:HG12	1.97	0.47
5:T:368:VAL:HG23	5:T:434:LEU:HG	1.96	0.47
6:U:137:ASP:N	6:U:137:ASP:OD1	2.46	0.47
6:U:487:PHE:HA	6:U:490:LEU:HB3	1.96	0.47
3:X:106:LEU:HD13	3:X:120:ASN:HB2	1.95	0.47
3:X:216:ASP:N	3:X:216:ASP:OD1	2.48	0.47
3:Y:12:PRO:HA	3:Y:218:TYR:HD2	1.80	0.47
1:K:62:GLU:HB3	3:R:111:GLU:HB3	1.97	0.46
1:K:95:PHE:O	1:K:111:PHE:N	2.32	0.46
3:R:129:SER:O	3:R:133:GLN:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:99:LYS:HB3	4:F:99:LYS:HE3	1.61	0.46
4:F:145:ASP:OD1	4:F:145:ASP:N	2.46	0.46
4:F:489:ARG:O	4:F:492:SER:OG	2.24	0.46
4:F:638:GLN:HB2	4:F:640:GLU:HG3	1.96	0.46
4:F:665:GLY:HA2	4:F:668:LYS:HB3	1.97	0.46
4:F:784:VAL:O	4:F:787:PRO:HD2	2.15	0.46
4:F:867:ASN:ND2	4:F:3133:GLN:OE1	2.48	0.46
4:F:1065:SER:HB2	4:F:1069:HIS:HE1	1.80	0.46
4:F:1816:ARG:NH1	6:H:625:ASP:O	2.47	0.46
4:F:2331:MET:SD	4:F:2335:ASN:HB3	2.55	0.46
4:F:3288:SER:HA	4:F:3292:GLY:CA	2.42	0.46
4:F:3537:SER:OG	4:F:3538:GLU:OE1	2.28	0.46
5:G:42:VAL:O	5:G:87:PHE:HA	2.14	0.46
5:G:347:LEU:HD21	5:G:350:PHE:HE1	1.80	0.46
6:H:295:TYR:C	6:H:304:GLU:HG2	2.35	0.46
6:H:299:ASP:HB2	6:H:302:GLU:N	2.30	0.46
4:A:473:PRO:HD3	4:A:1553:PHE:CD2	2.50	0.46
4:A:631:ARG:HH22	4:A:675:ARG:HH22	1.62	0.46
4:A:678:LYS:HD2	4:A:735:SER:O	2.14	0.46
4:A:794:PRO:O	4:A:797:ASP:HB2	2.15	0.46
4:A:901:MET:HB2	4:A:2819:GLU:OE1	2.14	0.46
4:A:1360:LYS:O	4:A:1363:LEU:HG	2.15	0.46
4:A:1952:ILE:HA	4:A:1955:VAL:O	2.15	0.46
4:A:2443:MET:HA	4:A:2446:LEU:HB2	1.97	0.46
4:A:3027:LEU:HD21	4:A:3044:MET:SD	2.56	0.46
4:A:3236:PHE:CD1	4:A:3259:LEU:HD11	2.50	0.46
5:B:102:ILE:HG12	5:B:146:VAL:HG12	1.97	0.46
4:S:301:CYS:O	4:S:309:LYS:HG2	2.15	0.46
4:S:782:ARG:NH1	4:S:3168:TYR:OH	2.48	0.46
4:S:1059:LEU:O	4:S:1063:LEU:HD23	2.16	0.46
4:S:1121:LEU:HG	4:S:1122:GLY:H	1.79	0.46
4:S:1134:LEU:HA	4:S:1137:ILE:HG12	1.97	0.46
4:S:1237:ALA:HB1	4:S:1256:TRP:CG	2.50	0.46
4:S:1679:LEU:HD13	4:S:1714:LEU:HD21	1.97	0.46
4:S:2154:GLU:HA	4:S:2157:PHE:CZ	2.50	0.46
4:S:2307:MET:HE2	4:S:2320:ALA:N	2.30	0.46
4:S:2310:VAL:HG13	4:S:2316:TYR:CZ	2.50	0.46
4:S:3806:LEU:HB2	4:S:3938:ILE:HG23	1.97	0.46
4:S:4083:GLY:HA3	4:S:4089:ILE:HG22	1.97	0.46
5:T:420:LEU:HD22	6:U:439:LYS:HE2	1.98	0.46
6:U:41:PHE:HB2	6:U:230:SER:OG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:400:ARG:NH2	8:W:34:DT:OP2	2.34	0.46
6:U:509:GLN:HB3	6:U:512:ILE:HG12	1.96	0.46
8:W:24:DT:H2''	8:W:25:DT:O5'	2.14	0.46
1:N:131:LEU:HD23	1:O:7:ARG:NH2	2.30	0.46
4:F:480:SER:HA	4:F:567:GLU:OE2	2.14	0.46
4:F:923:ASP:HB3	4:F:926:THR:HB	1.97	0.46
4:F:1048:GLN:O	4:F:1052:SER:HB2	2.15	0.46
4:F:1357:LYS:HZ2	4:F:1410:PRO:HG3	1.79	0.46
4:F:1527:ARG:O	4:F:1531:LEU:HG	2.15	0.46
4:F:1763:THR:O	4:F:1767:CYS:N	2.48	0.46
4:F:2886:GLN:HG3	4:F:2929:LEU:HD22	1.97	0.46
4:F:3193:ILE:O	4:F:3196:LYS:HG2	2.14	0.46
4:F:3728:VAL:HG11	4:F:3734:ARG:HH21	1.79	0.46
4:F:3751:LEU:HB3	4:F:3803:ILE:CG1	2.45	0.46
4:F:3901:ARG:HA	4:F:3904:PHE:HB3	1.97	0.46
5:G:93:ASP:OD1	5:G:102:ILE:N	2.32	0.46
5:G:183:ALA:HB1	5:G:187:ARG:NH1	2.30	0.46
5:G:372:GLU:HG2	5:G:378:SER:HB2	1.96	0.46
6:H:203:GLU:O	6:H:207:ILE:HG12	2.15	0.46
7:I:30:DA:N6	8:J:30:DT:C2	2.84	0.46
4:A:1667:SER:O	4:A:1667:SER:OG	2.31	0.46
4:A:2419:ASP:O	4:A:2422:GLN:HG3	2.14	0.46
4:A:3083:SER:OG	4:A:3102:TYR:O	2.33	0.46
4:A:3273:LEU:HD13	4:A:3315:TYR:CD1	2.49	0.46
4:A:3540:TYR:HB3	4:A:3542:PHE:CZ	2.51	0.46
4:A:4013:TRP:HE1	4:A:4034:ALA:H	1.63	0.46
5:B:411:VAL:HG13	5:B:434:LEU:HG	1.96	0.46
5:B:478:PHE:HD1	5:B:506:LEU:HD13	1.80	0.46
6:C:355:PHE:CG	6:C:425:PRO:HG3	2.50	0.46
6:C:408:ALA:HB1	6:C:419:LEU:HD11	1.97	0.46
9:D:30:DA:H2''	9:D:31:DA:N7	2.30	0.46
4:S:63:PHE:HE1	4:S:85:ILE:HG23	1.81	0.46
4:S:203:GLU:HB2	4:S:224:LEU:HD22	1.97	0.46
4:S:583:LEU:HD22	4:S:620:PHE:HZ	1.81	0.46
4:S:897:PRO:HD2	4:S:2571:ASP:OD2	2.14	0.46
4:S:1101:PHE:CD2	4:S:1163:LEU:HB3	2.47	0.46
4:S:1468:LEU:HD21	4:S:1476:HIS:CD2	2.50	0.46
4:S:1689:LYS:O	4:S:1693:VAL:HG23	2.15	0.46
4:S:1825:LEU:HD11	4:S:1876:ILE:HB	1.97	0.46
4:S:2174:SER:H	4:S:2214:ARG:HH12	1.63	0.46
4:S:2980:ASP:OD1	4:S:2980:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3785:ALA:O	4:S:3910:LEU:HD11	2.16	0.46
4:S:3939:GLY:HA3	4:S:3942:PHE:CE2	2.50	0.46
4:S:3967:PHE:O	4:S:3970:LEU:HD22	2.15	0.46
4:S:4088:ASN:ND2	4:S:4109:ASP:O	2.48	0.46
5:T:130:ARG:O	5:T:134:MET:HG3	2.15	0.46
5:T:459:VAL:HA	5:T:462:MET:HE2	1.97	0.46
6:U:49:GLU:HA	6:U:236:VAL:C	2.35	0.46
6:U:111:LEU:HD13	6:U:150:ILE:HG21	1.97	0.46
6:U:118:ILE:HG23	6:U:130:ARG:HG2	1.96	0.46
6:U:356:PHE:HB3	6:U:422:VAL:HG11	1.96	0.46
4:F:73:LEU:HB2	4:F:78:PHE:CE2	2.50	0.46
4:F:169:THR:HA	4:F:172:GLU:HG2	1.97	0.46
4:F:380:ASP:HA	4:F:383:PHE:HB2	1.96	0.46
4:F:902:LYS:HG2	4:A:2570:PRO:HG2	1.97	0.46
4:F:1180:GLN:HB2	4:F:1183:CYS:HB3	1.96	0.46
4:F:2155:GLU:H	4:F:2155:GLU:CD	2.19	0.46
4:F:2397:CYS:O	4:F:2401:VAL:HG23	2.16	0.46
4:F:2738:LYS:NZ	7:I:43:DT:OP2	2.47	0.46
4:F:3011:LEU:HD12	4:F:3048:LYS:HE3	1.97	0.46
4:F:3049:LEU:HA	4:F:3052:LEU:HD12	1.97	0.46
4:F:3331:GLY:HA2	4:F:3381:ALA:HA	1.96	0.46
4:F:3568:ILE:O	4:F:3572:ILE:HG13	2.15	0.46
4:F:3871:PHE:HA	4:F:3874:ARG:HD3	1.96	0.46
5:G:52:GLN:HG2	5:G:171:ASN:HB3	1.97	0.46
5:G:130:ARG:O	5:G:133:ASP:N	2.49	0.46
5:G:325:ARG:NH1	6:H:88:PHE:HB3	2.31	0.46
5:G:387:ILE:HG13	5:G:388:LYS:HG2	1.97	0.46
6:H:307:LYS:HE3	6:H:325:LYS:HD3	1.96	0.46
6:H:392:ILE:O	6:H:392:ILE:HG13	2.14	0.46
6:H:397:TYR:HE1	7:I:24:DA:H5''	1.80	0.46
6:H:466:LYS:HE3	6:H:472:THR:HG22	1.97	0.46
4:A:1475:LEU:HB3	4:A:1527:ARG:HG3	1.96	0.46
4:A:2803:ILE:O	4:A:2807:GLN:HG2	2.15	0.46
4:A:3446:VAL:O	4:A:3450:MET:HG3	2.14	0.46
5:B:65:GLN:O	5:B:65:GLN:NE2	2.48	0.46
5:B:122:PHE:CG	5:B:131:PHE:HB2	2.50	0.46
5:B:334:THR:HG23	6:C:276:TRP:CG	2.51	0.46
5:B:468:LYS:HD2	5:B:518:LEU:HD22	1.97	0.46
6:C:154:LEU:HB3	6:C:215:LEU:HD22	1.98	0.46
4:S:524:TYR:OH	4:S:630:CYS:HB3	2.15	0.46
4:S:1725:GLN:OE1	4:S:1727:ARG:NE	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2225:HIS:HD1	4:S:2234:ASN:CG	2.17	0.46
4:S:3150:ASN:HB2	4:S:3193:ILE:HD12	1.97	0.46
4:S:3151:LEU:HD23	4:S:3195:GLU:H	1.80	0.46
4:S:3690:PHE:HE1	4:S:3695:LEU:HD12	1.81	0.46
4:S:3726:VAL:HG12	4:S:3738:ILE:HG22	1.96	0.46
4:S:3812:LEU:HA	4:S:3815:LEU:HB3	1.97	0.46
5:T:50:GLU:O	5:T:58:THR:HA	2.15	0.46
5:T:367:PHE:HB3	6:U:433:TYR:CE1	2.51	0.46
6:U:7:LYS:HG2	6:U:51:LYS:HG3	1.97	0.46
1:K:62:GLU:HB2	3:R:117:PHE:HB2	1.97	0.46
2:M:694:GLY:HA2	5:B:290:ARG:NH1	2.30	0.46
1:O:8:ILE:HD11	1:O:36:LEU:HD11	1.96	0.46
3:R:59:LYS:HE3	3:R:67:ALA:HB3	1.98	0.46
4:F:172:GLU:HB3	4:F:220:LEU:HA	1.96	0.46
4:F:227:LEU:O	4:F:231:LEU:HB2	2.16	0.46
4:F:407:VAL:HA	4:F:410:MET:HE2	1.98	0.46
4:F:540:MET:O	4:F:544:ILE:HG12	2.15	0.46
4:F:1491:ILE:HD11	4:F:1555:HIS:CE1	2.48	0.46
4:F:1558:TYR:O	4:F:1562:LEU:HG	2.14	0.46
4:F:2223:VAL:HG23	4:F:2234:ASN:HB3	1.98	0.46
4:F:2485:ARG:NH1	4:F:2529:THR:O	2.49	0.46
4:F:2804:ILE:HG13	4:F:2805:ALA:N	2.30	0.46
4:F:3052:LEU:HB3	4:F:3092:LEU:HD21	1.97	0.46
4:F:3447:VAL:HG21	4:F:3479:THR:HG22	1.97	0.46
4:F:3717:VAL:HG23	4:F:3743:HIS:HE1	1.80	0.46
4:F:3895:GLU:HA	4:F:3898:LEU:HB3	1.97	0.46
4:F:3915:HIS:ND1	4:F:3920:ILE:HB	2.29	0.46
5:G:91:GLU:HG3	5:G:139:SER:HA	1.97	0.46
5:G:416:GLN:HB2	5:G:431:GLY:H	1.80	0.46
6:H:485:PRO:HG3	6:H:516:LEU:HD21	1.96	0.46
7:I:25:DA:N1	8:J:32:DT:H2'	2.31	0.46
7:I:42:DA:H3'	7:I:43:DT:C2	2.51	0.46
4:A:273:ARG:O	4:A:277:LEU:HG	2.15	0.46
4:A:628:GLU:HA	4:A:668:LYS:HD2	1.97	0.46
4:A:1071:ASN:HB3	4:A:1074:LYS:HB2	1.97	0.46
4:A:2154:GLU:OE1	4:A:2195:SER:OG	2.33	0.46
4:A:2404:ARG:HD3	4:A:2404:ARG:HA	1.71	0.46
4:A:2421:VAL:O	4:A:2425:ARG:HG2	2.14	0.46
4:A:2931:ARG:HA	4:A:2936:TYR:CE1	2.49	0.46
4:A:3775:LEU:HD23	4:A:3987:ALA:CB	2.45	0.46
4:A:3881:ASP:HA	4:A:3969:ASN:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:254:ARG:HB2	9:D:33:DA:C1'	2.45	0.46
4:S:55:THR:HG22	4:S:59:PHE:HE2	1.80	0.46
4:S:490:ILE:HD12	4:S:523:THR:HA	1.97	0.46
4:S:901:MET:HG2	4:S:903:PRO:HD3	1.96	0.46
4:S:1057:LYS:HG2	4:S:1099:PHE:HE2	1.81	0.46
4:S:1254:LEU:HD23	4:S:1257:LEU:HD12	1.98	0.46
4:S:1782:PHE:HA	4:S:1785:ILE:HG12	1.96	0.46
4:S:2097:LEU:O	4:S:2101:VAL:HG23	2.16	0.46
4:S:2142:ILE:O	4:S:2146:LEU:HG	2.16	0.46
4:S:2284:ASP:OD1	4:S:2284:ASP:N	2.43	0.46
4:S:3527:GLN:NE2	4:S:3705:TYR:OH	2.38	0.46
4:S:3882:LEU:HD21	4:S:3966:GLN:HG3	1.96	0.46
5:T:101:ASN:OD1	5:T:139:SER:HB3	2.15	0.46
5:T:202:LEU:HD22	5:T:214:SER:HB3	1.98	0.46
6:U:261:ILE:HG13	6:U:340:PHE:HE2	1.80	0.46
3:Y:98:ASP:H	3:Y:104:LEU:HG	1.81	0.46
1:K:140:LYS:HD2	1:L:141:ASN:ND2	2.31	0.46
1:L:15:SER:OG	1:L:16:ILE:N	2.49	0.46
1:O:178:LYS:HE2	2:P:787:GLN:HG2	1.98	0.46
3:Q:211:VAL:HG23	3:Q:212:MET:SD	2.56	0.46
3:R:46:HIS:ND1	3:R:48:GLN:OE1	2.48	0.46
3:R:139:LEU:HA	3:R:139:LEU:HD23	1.62	0.46
4:F:50:VAL:O	4:F:54:GLN:HG2	2.15	0.46
4:F:713:GLU:O	4:F:717:LYS:HG2	2.16	0.46
4:F:1086:TYR:CE1	4:F:1133:HIS:HB3	2.51	0.46
4:F:1101:PHE:HZ	4:F:1167:ASP:HB2	1.80	0.46
4:F:2288:TYR:OH	4:F:2294:ILE:N	2.43	0.46
4:F:2546:TYR:HB3	4:F:2842:ARG:CZ	2.46	0.46
4:F:2974:GLU:O	4:F:2978:LYS:N	2.47	0.46
4:F:3481:SER:O	4:F:3484:THR:OG1	2.28	0.46
6:H:91:LEU:HA	6:H:94:ILE:HD12	1.98	0.46
4:A:198:ARG:NH2	5:B:312:LEU:HD12	2.31	0.46
4:A:667:TYR:HD1	4:A:728:SER:HB3	1.79	0.46
4:A:1093:GLU:OE1	4:A:1093:GLU:N	2.46	0.46
4:A:1813:SER:CB	4:A:1865:THR:HA	2.45	0.46
4:A:2269:ASP:HB3	4:A:2311:ARG:HB2	1.96	0.46
4:A:3237:SER:HA	4:A:3240:MET:HE1	1.97	0.46
4:A:3496:ILE:HG21	4:A:3707:GLY:H	1.81	0.46
4:A:3648:GLY:HA2	4:A:3659:PHE:HB3	1.97	0.46
5:B:288:LEU:N	6:C:311:ILE:O	2.49	0.46
5:B:430:PRO:HB2	6:C:438:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:D:36:DA:H4'	9:D:37:DT:OP1	2.16	0.46
4:S:114:VAL:HG22	4:S:119:ARG:HH21	1.81	0.46
4:S:133:LYS:HD2	4:S:136:GLN:HB3	1.97	0.46
4:S:754:MET:HB2	4:S:757:LYS:HE2	1.96	0.46
4:S:2190:VAL:HA	4:S:2193:ILE:HD12	1.98	0.46
4:S:2436:LEU:HD21	4:S:2461:PHE:CD2	2.51	0.46
4:S:2436:LEU:O	4:S:2476:ILE:HD11	2.15	0.46
4:S:3805:TRP:CH2	4:S:3940:ILE:HA	2.50	0.46
5:T:37:SER:HA	5:T:82:LEU:HB2	1.97	0.46
6:U:238:LYS:HE2	6:U:267:ILE:HD11	1.98	0.46
6:U:312:GLN:H	6:U:324:SER:HA	1.81	0.46
6:U:643:ARG:HB2	6:U:659:LEU:HD13	1.97	0.46
7:V:37:DT:H3	8:W:21:DA:N6	2.13	0.46
3:Y:10:MET:HB3	3:Y:222:THR:HA	1.97	0.46
2:M:665:CYS:HB3	2:M:700:VAL:HG22	1.98	0.46
2:M:877:ALA:O	2:M:881:THR:HG23	2.15	0.46
2:M:879:ARG:HH21	2:M:885:LYS:HB3	1.81	0.46
1:N:103:ASP:HB3	3:Q:70:ALA:HB1	1.98	0.46
1:N:188:LYS:HE3	2:P:768:ASP:HA	1.98	0.46
1:O:73:ALA:HB2	1:O:108:LEU:HG	1.97	0.46
3:Q:75:HIS:CD2	3:Q:112:LEU:HD21	2.51	0.46
3:R:4:LEU:O	3:R:8:LEU:HB2	2.15	0.46
4:F:36:ARG:HE	4:F:40:GLN:NE2	2.13	0.46
4:F:317:GLU:O	4:F:320:LEU:HG	2.15	0.46
4:F:538:ASP:OD1	4:F:538:ASP:N	2.49	0.46
4:F:707:PHE:HB3	4:F:740:ILE:HD13	1.98	0.46
4:F:734:LEU:HD21	4:F:768:VAL:HG23	1.98	0.46
4:F:740:ILE:HG13	4:F:741:ILE:HG23	1.97	0.46
4:F:1506:SER:O	4:F:1509:GLN:NE2	2.49	0.46
4:F:2430:GLU:OE1	4:F:2430:GLU:N	2.25	0.46
4:F:2991:LYS:HA	4:F:2994:TRP:CE3	2.49	0.46
4:F:3262:LEU:HD23	4:F:3272:TRP:CE2	2.51	0.46
4:F:3613:MET:HA	4:F:3616:ALA:HB3	1.97	0.46
4:F:3639:GLU:HG3	4:F:3643:HIS:CE1	2.51	0.46
4:F:4121:TRP:HB3	4:F:4124:TRP:HB2	1.96	0.46
5:G:43:ASP:CB	5:G:47:ALA:HB3	2.46	0.46
5:G:93:ASP:OD2	5:G:100:LYS:HA	2.16	0.46
5:G:367:PHE:HB2	6:H:433:TYR:CZ	2.50	0.46
6:H:21:SER:H	6:H:101:GLY:HA3	1.81	0.46
6:H:81:ARG:HD3	6:H:84:MET:SD	2.55	0.46
6:H:316:TYR:N	6:H:319:ASP:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:405:VAL:HG22	6:H:426:PHE:CZ	2.51	0.46
6:H:657:ASN:HA	6:H:660:LYS:CG	2.46	0.46
4:A:213:ARG:HG3	5:B:403:ARG:HH12	1.81	0.46
4:A:215:PRO:O	6:C:549:THR:HA	2.15	0.46
4:A:772:ALA:HB1	4:A:776:TRP:CZ2	2.50	0.46
4:A:958:MET:N	4:A:958:MET:SD	2.89	0.46
4:A:1457:GLN:OE1	4:A:1460:ARG:NH1	2.49	0.46
4:A:2893:LEU:HB3	4:A:2926:LEU:HD13	1.97	0.46
4:A:3762:GLN:O	4:A:3766:GLN:HG2	2.16	0.46
5:B:44:ALA:O	5:B:138:GLY:HA2	2.15	0.46
5:B:252:ARG:O	5:B:276:LEU:HB2	2.16	0.46
5:B:290:ARG:HD2	6:C:308:GLU:O	2.14	0.46
5:B:334:THR:HG23	6:C:276:TRP:CE2	2.50	0.46
6:C:340:PHE:HD1	6:C:395:TYR:CD1	2.33	0.46
9:D:32:DA:H61	10:E:26:DT:H5'	1.80	0.46
4:S:465:PHE:CD2	4:S:534:LEU:HD22	2.51	0.46
4:S:899:ARG:NH2	4:S:2535:THR:HG23	2.30	0.46
4:S:1046:PRO:O	4:S:1050:GLU:HG2	2.15	0.46
4:S:1149:LYS:HB3	4:S:1149:LYS:HE3	1.75	0.46
4:S:1208:LEU:HA	4:S:1211:VAL:HG12	1.96	0.46
4:S:1271:ILE:O	4:S:1274:ARG:HD2	2.16	0.46
4:S:1348:LEU:HG	4:S:1356:TRP:HB3	1.97	0.46
4:S:1783:ARG:HH22	4:S:1830:HIS:HB2	1.81	0.46
4:S:2484:TYR:O	4:S:2499:PHE:HB2	2.16	0.46
4:S:3995:PRO:HA	4:S:4051:LEU:HD23	1.98	0.46
5:T:353:LEU:HG	6:U:353:ARG:HD2	1.97	0.46
6:U:488:GLN:OE1	6:U:512:ILE:HD12	2.15	0.46
3:X:146:LEU:HD13	3:Y:146:LEU:HB2	1.97	0.46
3:Y:187:ASN:OD1	3:Y:188:SER:N	2.49	0.46
1:K:144:LEU:HB3	1:L:148:ASN:ND2	2.30	0.46
2:M:844:GLU:HA	2:M:898:ILE:CD1	2.46	0.46
2:P:761:TYR:CD1	2:P:781:ILE:HG12	2.51	0.46
4:F:101:ALA:H	4:F:102:PRO:HD2	1.80	0.46
4:F:196:LEU:HB3	4:F:200:PHE:CZ	2.50	0.46
4:F:238:MET:HG2	4:F:283:SER:H	1.81	0.46
4:F:979:VAL:HG12	4:F:2591:ILE:HG22	1.98	0.46
4:F:2233:HIS:CE1	4:F:2237:ILE:HD11	2.50	0.46
4:F:3089:LEU:HD13	4:F:3092:LEU:HD23	1.97	0.46
6:H:37:VAL:O	6:H:40:MET:HG3	2.16	0.46
6:H:459:ASP:O	6:H:460:SER:OG	2.33	0.46
6:H:528:ILE:O	6:H:531:SER:OG	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:623:PHE:HB2	6:H:631:TYR:HE2	1.80	0.46
7:I:40:DT:H72	8:J:16:DA:N6	2.22	0.46
8:J:28:DA:O5'	8:J:28:DA:H8	1.98	0.46
4:A:173:LYS:NZ	4:A:219:VAL:HA	2.30	0.46
4:A:1086:TYR:OH	4:A:1137:ILE:HG23	2.15	0.46
4:A:3156:PRO:O	4:A:3160:LEU:HB3	2.15	0.46
4:A:3532:PRO:O	4:A:3536:SER:HB3	2.16	0.46
4:A:4044:ILE:HG13	4:A:4048:LYS:NZ	2.30	0.46
6:C:115:MET:SD	6:C:154:LEU:HD23	2.55	0.46
9:D:31:DA:C4	9:D:32:DA:N6	2.83	0.46
4:S:50:VAL:O	4:S:54:GLN:HG2	2.15	0.46
4:S:382:ASP:OD1	4:S:383:PHE:N	2.48	0.46
4:S:773:LEU:HD23	4:S:858:MET:SD	2.56	0.46
4:S:1602:ASP:HA	4:S:1605:PHE:HB3	1.98	0.46
4:S:3413:TYR:CD2	4:S:3450:MET:HA	2.51	0.46
4:S:3483:MET:HA	4:S:3486:GLU:HG3	1.97	0.46
4:S:3891:SER:OG	4:S:3897:PHE:HB2	2.15	0.46
4:S:3913:ILE:HD11	4:S:3988:LEU:HD13	1.97	0.46
5:T:412:ALA:N	5:T:437:LEU:HG	2.31	0.46
6:U:184:ARG:HE	6:U:515:MET:C	2.18	0.46
6:U:619:HIS:HD1	6:U:635:SER:HA	1.81	0.46
7:V:21:DA:C6	7:V:22:DA:H1'	2.50	0.46
3:Y:107:ARG:HG2	3:Y:120:ASN:HD22	1.81	0.46
1:K:56:ALA:HB2	1:K:66:TYR:CD2	2.50	0.46
1:L:65:LYS:HG3	1:L:69:GLU:HG2	1.98	0.46
1:L:173:GLU:HG2	2:M:796:ILE:HD13	1.98	0.46
1:N:59:MET:HE1	1:N:61:MET:HB2	1.98	0.46
1:N:176:LEU:HD12	1:O:176:LEU:HD12	1.97	0.46
2:P:793:ALA:HA	2:P:814:ARG:HD2	1.97	0.46
4:F:189:MET:O	4:F:193:ALA:HB2	2.15	0.46
4:F:356:ASN:O	4:F:360:SER:N	2.40	0.46
4:F:472:GLY:O	4:F:475:LEU:HB3	2.16	0.46
4:F:899:ARG:CZ	4:F:2568:MET:HB2	2.46	0.46
4:F:1238:GLN:HE21	4:F:1296:PHE:HE1	1.64	0.46
4:F:1301:ILE:HD12	4:F:1334:LYS:HG2	1.97	0.46
4:F:1766:LEU:O	4:F:1772:HIS:HE1	1.98	0.46
4:F:1881:TYR:CG	4:F:1951:VAL:HA	2.51	0.46
4:F:2181:GLY:H	4:F:2185:MET:HE1	1.81	0.46
4:F:2197:THR:OG1	4:F:2722:ARG:NH1	2.48	0.46
4:F:2229:ALA:O	4:F:2233:HIS:N	2.48	0.46
4:F:2347:LYS:HG3	4:F:2348:GLN:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2446:LEU:HD22	4:F:2454:LEU:HD22	1.98	0.46
4:F:2953:THR:HA	4:F:2972:TYR:HE1	1.81	0.46
4:F:3243:ILE:HD13	4:F:3262:LEU:HD11	1.98	0.46
4:A:141:SER:OG	4:A:141:SER:O	2.33	0.46
4:A:1038:LYS:HG2	4:A:1042:LYS:HD3	1.98	0.46
4:A:1372:LEU:HD22	4:A:1402:LEU:HD12	1.97	0.46
4:A:1614:GLN:HA	4:A:1617:LYS:HZ2	1.79	0.46
4:A:1772:HIS:CE1	4:A:1773:VAL:HG13	2.51	0.46
4:A:2871:LEU:HD12	4:A:2892:LEU:HD21	1.98	0.46
4:A:3499:ILE:HA	4:A:3502:MET:HB2	1.98	0.46
4:A:3500:SER:HB2	4:A:3762:GLN:NE2	2.31	0.46
4:A:4080:VAL:HG21	4:A:4119:ARG:HD2	1.98	0.46
5:B:400:TYR:O	5:B:408:PRO:HA	2.15	0.46
9:D:29:DA:H5'	10:E:28:DA:N6	2.30	0.46
4:S:391:ARG:HB3	4:S:1734:PRO:HG2	1.98	0.46
4:S:1104:LEU:HA	4:S:1131:ILE:HG21	1.98	0.46
4:S:1783:ARG:NH2	4:S:1826:THR:O	2.49	0.46
4:S:2094:MET:CE	4:S:2148:LYS:HB3	2.46	0.46
4:S:2526:SER:HA	4:S:2531:LEU:HD12	1.97	0.46
4:S:3331:GLY:HA2	4:S:3334:TYR:CD2	2.51	0.46
4:S:4050:LYS:HG2	4:S:4059:ILE:HG23	1.97	0.46
5:T:106:GLN:HE22	5:T:115:ARG:HB3	1.81	0.46
5:T:358:LYS:HD3	5:T:358:LYS:HA	1.66	0.46
5:T:423:GLN:HG2	5:T:425:ILE:H	1.80	0.46
6:U:7:LYS:HD3	6:U:125:LYS:HE2	1.98	0.46
7:V:44:DG:H3'	7:V:45:DG:H3'	1.98	0.46
1:K:181:ILE:HG12	1:K:185:ASN:OD1	2.16	0.46
1:L:86:PHE:HA	1:L:97:PHE:HB3	1.98	0.46
1:L:94:TYR:CZ	1:L:96:PHE:HB3	2.51	0.46
2:M:818:VAL:HG13	2:M:862:HIS:O	2.16	0.46
1:N:16:ILE:HD13	1:N:90:LYS:HZ2	1.80	0.46
2:P:838:LEU:HD21	2:P:867:GLU:HG2	1.98	0.46
3:Q:18:LEU:HG	3:Q:20:GLU:H	1.81	0.46
3:R:11:GLN:HB3	3:R:134:HIS:CE1	2.51	0.46
4:F:54:GLN:HB3	4:F:3097:ASP:HB2	1.98	0.46
4:F:902:LYS:HE3	4:A:2570:PRO:HG2	1.97	0.46
4:F:1450:ALA:O	4:F:1453:SER:OG	2.26	0.46
4:F:1713:VAL:HA	4:F:1716:GLN:HG2	1.97	0.46
4:F:1769:GLU:HB2	4:F:1772:HIS:HB3	1.98	0.46
4:F:1794:GLN:O	4:F:1798:LEU:HG	2.15	0.46
4:F:2589:TYR:CB	4:F:2777:HIS:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2855:VAL:O	4:F:2859:GLN:HG3	2.16	0.46
4:F:2894:GLU:HG3	4:F:3973:PRO:HG2	1.97	0.46
4:F:2980:ASP:N	4:F:2980:ASP:OD1	2.47	0.46
5:G:83:LEU:N	5:G:109:ASP:O	2.46	0.46
5:G:407:PRO:HG3	6:H:486:ARG:HD3	1.97	0.46
5:G:482:VAL:O	5:G:485:GLN:HG2	2.15	0.46
5:G:533:ASP:HA	6:H:250:ARG:NH2	2.29	0.46
6:H:387:LEU:HB2	6:H:389:MET:HG2	1.98	0.46
6:H:515:MET:SD	6:H:516:LEU:HD12	2.56	0.46
6:H:519:PRO:O	6:H:523:THR:HG23	2.16	0.46
4:A:221:ALA:O	4:A:225:LYS:HG2	2.16	0.46
4:A:736:LEU:HB2	4:A:741:ILE:HD11	1.98	0.46
4:A:2094:MET:SD	4:A:2148:LYS:HD2	2.56	0.46
4:A:2515:PRO:HA	4:A:2518:GLN:HE21	1.80	0.46
4:A:2522:ARG:NH1	4:A:2564:GLU:HG3	2.31	0.46
4:A:2556:SER:O	4:A:2559:THR:OG1	2.32	0.46
4:A:3609:MET:HA	4:A:3612:ARG:HG3	1.98	0.46
4:A:3867:THR:HG21	4:A:4119:ARG:HG2	1.98	0.46
4:A:3951:GLN:HB3	4:A:4064:LEU:C	2.37	0.46
5:B:88:TYR:HA	5:B:102:ILE:HA	1.98	0.46
5:B:89:GLY:HA2	5:B:141:TYR:CE1	2.51	0.46
5:B:187:ARG:NH1	5:B:219:ASP:OD2	2.48	0.46
6:C:42:VAL:O	6:C:46:VAL:HG13	2.15	0.46
4:S:76:ILE:HA	4:S:79:ARG:HB2	1.96	0.46
4:S:179:GLY:HA3	4:S:230:LEU:HD13	1.98	0.46
4:S:754:MET:HA	4:S:757:LYS:HB3	1.98	0.46
4:S:756:PHE:HD2	4:S:795:CYS:HB2	1.79	0.46
4:S:1474:ASP:N	4:S:1474:ASP:OD1	2.48	0.46
4:S:1731:PRO:HA	4:S:1736:PHE:CD2	2.51	0.46
4:S:2508:GLN:CD	4:S:2549:LYS:HE2	2.36	0.46
4:S:3000:ASP:O	4:S:3004:HIS:ND1	2.49	0.46
4:S:3335:ARG:HE	4:S:3339:ASN:HD21	1.64	0.46
4:S:3701:ILE:HD13	4:S:3748:HIS:CG	2.51	0.46
4:S:4046:TYR:O	4:S:4050:LYS:HG3	2.15	0.46
5:T:398:CYS:N	5:T:411:VAL:O	2.48	0.46
6:U:598:PHE:HZ	6:U:616:LEU:HG	1.81	0.46
7:V:19:DC:H4'	8:W:37:DG:C2	2.51	0.46
1:K:21:GLN:NE2	1:K:126:LEU:HA	2.30	0.46
1:K:150:ARG:HA	1:K:153:ARG:HE	1.81	0.46
2:P:654:LYS:HZ1	2:P:686:GLY:HA2	1.81	0.46
2:P:840:ILE:O	2:P:844:GLU:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:153:LEU:HB3	3:R:157:LEU:HD21	1.98	0.46
3:Q:176:ARG:HH21	3:Q:179:LEU:HD12	1.81	0.46
3:R:139:LEU:HA	3:R:142:MET:HG3	1.98	0.46
4:F:73:LEU:H	4:F:82:ARG:HH22	1.62	0.46
4:F:148:LYS:O	4:F:152:LEU:HG	2.16	0.46
4:F:186:PRO:O	4:F:190:ILE:HG12	2.16	0.46
4:F:380:ASP:O	4:F:384:MET:HE2	2.16	0.46
4:F:447:PRO:HD3	4:F:527:TYR:HE1	1.80	0.46
4:F:723:ASP:C	4:F:725:LEU:H	2.20	0.46
4:F:725:LEU:O	4:F:729:CYS:N	2.47	0.46
4:F:1456:LYS:HZ2	4:F:1520:ALA:HB2	1.81	0.46
4:F:1747:LEU:HD21	4:F:1778:PHE:CD1	2.51	0.46
4:F:1782:PHE:HA	4:F:1785:ILE:HG12	1.97	0.46
4:F:2091:HIS:HB2	4:F:2094:MET:HG3	1.98	0.46
4:F:2216:LEU:O	4:F:2219:LEU:HG	2.15	0.46
4:F:2231:PHE:O	4:F:2235:LEU:HG	2.15	0.46
4:F:2260:PHE:O	4:F:2270:ASN:HB2	2.15	0.46
4:F:2263:LYS:HE2	4:F:2263:LYS:HB2	1.41	0.46
4:F:2319:ALA:HA	4:F:2322:VAL:HG22	1.98	0.46
4:F:2383:PHE:O	4:F:2418:LYS:HE3	2.16	0.46
4:F:3045:ILE:HG13	4:F:3046:ARG:N	2.30	0.46
5:G:41:LEU:O	5:G:168:LEU:HA	2.16	0.46
5:G:69:SER:HA	5:G:72:ILE:HD12	1.97	0.46
5:G:74:LYS:HB3	5:G:111:PRO:HG3	1.98	0.46
5:G:261:LEU:HA	5:G:345:LEU:HB2	1.98	0.46
5:G:318:ARG:HE	6:H:278:VAL:HG13	1.81	0.46
6:H:46:VAL:O	6:H:49:GLU:HG2	2.16	0.46
6:H:234:LEU:HD23	6:H:488:GLN:HB2	1.97	0.46
6:H:270:GLU:HG3	6:H:273:LYS:NZ	2.31	0.46
6:H:366:ALA:HA	6:H:377:LEU:HD23	1.97	0.46
8:J:26:DT:H1'	8:J:27:DT:C6	2.51	0.46
4:A:1016:GLY:HA3	4:A:1029:CYS:SG	2.55	0.46
4:A:1579:VAL:HG13	4:A:1625:HIS:NE2	2.31	0.46
4:A:1828:LEU:O	4:A:1883:ARG:NH1	2.49	0.46
4:A:1851:LEU:HD23	4:A:1870:LYS:HG2	1.97	0.46
4:A:2798:ALA:O	4:A:2805:ALA:HB2	2.16	0.46
4:A:2931:ARG:NH2	4:A:2997:ALA:HA	2.29	0.46
4:A:3079:GLU:OE2	4:A:3083:SER:OG	2.29	0.46
4:A:3293:CYS:O	4:A:3297:VAL:HG22	2.16	0.46
4:A:3772:ASN:O	4:A:3776:ALA:HB2	2.16	0.46
5:B:269:ILE:HA	5:B:375:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:329:LEU:HG	6:C:497:ARG:CZ	2.46	0.46
4:S:259:GLN:O	4:S:305:ASN:ND2	2.49	0.46
4:S:262:LEU:O	7:V:40:DT:H4'	2.16	0.46
4:S:540:MET:O	4:S:544:ILE:HG12	2.16	0.46
4:S:932:GLU:HG3	4:S:2775:TYR:HE2	1.79	0.46
4:S:1818:SER:O	4:S:1822:ARG:NE	2.42	0.46
4:S:2233:HIS:ND1	4:S:2731:ARG:HG3	2.31	0.46
4:S:2532:PRO:HG2	4:S:2537:ASP:HB3	1.99	0.46
4:S:2873:PRO:HG3	4:S:2922:ARG:CZ	2.46	0.46
4:S:3786:LEU:HD11	4:S:3983:ILE:O	2.16	0.46
5:T:166:ILE:HG12	5:T:198:ILE:HG21	1.98	0.46
5:T:179:ASP:OD2	5:T:182:LYS:N	2.49	0.46
5:T:383:SER:HB2	6:U:438:LEU:HD11	1.97	0.46
5:T:462:MET:HG2	6:U:257:LEU:HD11	1.98	0.46
6:U:33:GLN:NE2	6:U:164:PHE:O	2.38	0.46
6:U:332:LYS:HZ2	6:U:334:LYS:HB3	1.81	0.46
6:U:345:PHE:HB3	6:U:389:MET:CE	2.46	0.46
6:U:409:PHE:HB3	6:U:420:VAL:HG21	1.97	0.46
6:U:440:ASN:OD1	6:U:441:SER:N	2.49	0.46
1:K:45:GLY:HA2	1:K:114:GLU:OE1	2.17	0.45
2:M:660:GLU:HG3	2:M:686:GLY:HA3	1.97	0.45
2:M:720:VAL:HG23	2:M:745:HIS:HD2	1.80	0.45
2:M:767:ILE:HG21	2:M:773:GLN:NE2	2.31	0.45
1:O:29:GLU:HB3	1:O:52:ILE:HG21	1.97	0.45
1:O:121:GLU:HA	1:O:124:ARG:HH11	1.81	0.45
1:O:144:LEU:O	1:O:148:ASN:HB3	2.16	0.45
2:P:752:GLU:HG3	2:P:756:ARG:NH2	2.31	0.45
4:F:98:GLN:HE21	4:F:101:ALA:HB2	1.80	0.45
4:F:332:GLU:HA	4:F:334:HIS:CE1	2.51	0.45
4:F:528:VAL:HG11	4:F:632:GLU:CB	2.47	0.45
4:F:681:LYS:NZ	4:F:683:PHE:HB2	2.31	0.45
4:F:1157:PHE:CZ	4:F:1167:ASP:HB3	2.50	0.45
4:F:1400:VAL:HA	4:F:1403:MET:HE2	1.97	0.45
4:F:1936:ARG:HD3	4:F:1939:LEU:HD12	1.98	0.45
4:F:2291:GLN:CD	4:F:2292:CYS:H	2.20	0.45
4:F:2415:LEU:HB2	4:F:2420:PHE:CB	2.44	0.45
4:F:2754:GLU:O	4:F:2758:LYS:NZ	2.41	0.45
4:F:3319:ASN:ND2	4:F:3321:LEU:HB2	2.31	0.45
5:G:194:ARG:NH2	5:G:200:LEU:H	2.11	0.45
4:A:139:ARG:HH21	4:A:182:GLY:H	1.64	0.45
4:A:184:VAL:HG13	4:A:186:PRO:HD3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:469:ALA:HA	4:A:475:LEU:HA	1.98	0.45
4:A:569:VAL:O	4:A:573:LEU:HG	2.16	0.45
4:A:583:LEU:HD12	4:A:612:LEU:HB3	1.97	0.45
4:A:628:GLU:HB2	4:A:668:LYS:HZ3	1.82	0.45
4:A:865:GLN:N	4:A:3169:PRO:HG3	2.31	0.45
4:A:898:PHE:HB2	4:A:901:MET:O	2.15	0.45
4:A:923:ASP:OD2	4:A:925:GLN:HB2	2.16	0.45
4:A:1437:TYR:OH	4:A:1485:SER:O	2.33	0.45
4:A:1876:ILE:O	4:A:1880:MET:HG2	2.16	0.45
4:A:2510:LEU:O	4:A:2518:GLN:HB2	2.17	0.45
4:A:2840:PHE:HA	4:A:2843:PHE:CD2	2.51	0.45
4:A:3571:PHE:CE2	4:A:3800:LEU:HD12	2.51	0.45
4:A:3999:THR:O	4:A:4003:ASP:HB2	2.15	0.45
5:B:214:SER:O	5:B:218:ARG:HG2	2.16	0.45
5:B:427:VAL:HG12	5:B:428:THR:HG23	1.98	0.45
6:C:340:PHE:CD1	6:C:362:LEU:HD22	2.50	0.45
4:S:881:LYS:HG3	4:S:883:TYR:HE1	1.80	0.45
4:S:994:TRP:HA	4:S:997:ASN:HB2	1.97	0.45
4:S:996:THR:HA	4:S:1001:PHE:CE1	2.51	0.45
4:S:1026:ARG:NE	4:S:1122:GLY:O	2.49	0.45
4:S:1049:GLN:O	4:S:1055:ASN:HB3	2.16	0.45
4:S:1075:ARG:HD2	4:S:1113:LEU:HB3	1.98	0.45
4:S:1748:ASP:OD1	4:S:1749:ALA:N	2.49	0.45
4:S:2933:ILE:HD12	4:S:3123:GLN:HE21	1.80	0.45
4:S:3052:LEU:HD21	4:S:3059:GLN:N	2.23	0.45
4:S:3239:LYS:HD3	4:S:3261:GLU:OE2	2.16	0.45
4:S:3831:ASP:HB3	4:S:3832:PRO:HD3	1.98	0.45
5:T:41:LEU:HB2	5:T:167:MET:O	2.15	0.45
5:T:482:VAL:HG22	6:U:332:LYS:NZ	2.29	0.45
6:U:115:MET:HA	6:U:118:ILE:HD12	1.97	0.45
6:U:297:LEU:N	6:U:303:THR:O	2.43	0.45
7:V:30:DA:H4'	8:W:30:DT:H4'	1.98	0.45
3:X:139:LEU:O	3:X:142:MET:HG2	2.16	0.45
2:M:818:VAL:HG13	2:M:862:HIS:HB2	1.98	0.45
1:O:5:ILE:HG13	1:O:21:GLN:HG3	1.98	0.45
4:F:93:LEU:HA	4:F:96:MET:HE3	1.98	0.45
4:F:175:TYR:OH	4:F:200:PHE:HA	2.16	0.45
4:F:424:LEU:HD11	4:F:427:VAL:HA	1.98	0.45
4:F:652:GLU:O	4:F:656:GLN:HG2	2.17	0.45
4:F:667:TYR:O	4:F:671:SER:HB3	2.17	0.45
4:F:1465:HIS:NE2	4:F:1521:PHE:HA	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1468:LEU:HD21	4:F:1476:HIS:CD2	2.51	0.45
4:F:1690:GLY:O	4:F:1694:THR:HG23	2.16	0.45
4:F:1779:GLN:O	4:F:1783:ARG:HG2	2.15	0.45
4:F:1862:THR:N	4:F:1864:ASP:OD1	2.49	0.45
4:F:2497:GLU:HA	4:F:2500:LYS:HE2	1.99	0.45
4:F:3602:ASN:HA	4:F:3606:ILE:HB	1.98	0.45
4:F:3717:VAL:HG23	4:F:3743:HIS:CE1	2.52	0.45
5:G:115:ARG:NH1	6:H:318:SER:OG	2.49	0.45
6:H:262:ALA:H	6:H:368:ARG:NH1	2.12	0.45
6:H:406:GLY:HA3	6:H:421:TYR:CZ	2.51	0.45
4:A:214:GLU:O	6:C:549:THR:OG1	2.29	0.45
4:A:1604:SER:O	4:A:1608:ARG:N	2.49	0.45
4:A:1805:PHE:HD1	4:A:1819:PHE:HB2	1.82	0.45
4:A:1900:PHE:HB3	4:A:1909:ASN:HB3	1.98	0.45
4:A:2813:PHE:O	4:A:2817:LEU:HG	2.16	0.45
4:A:2921:LEU:HA	4:A:2924:VAL:HG12	1.97	0.45
4:A:3117:ILE:HD12	4:A:3128:LYS:HZ3	1.80	0.45
4:A:3884:LYS:HZ2	4:A:3972:LEU:HB3	1.81	0.45
5:B:414:VAL:HB	5:B:433:GLN:HG3	1.98	0.45
5:B:438:PRO:HD2	6:C:480:THR:HG22	1.97	0.45
5:B:445:LYS:HB2	6:C:266:SER:HB2	1.98	0.45
9:D:31:DA:H1'	9:D:32:DA:H62	1.81	0.45
9:D:40:DT:H2'	10:E:16:DA:N1	2.31	0.45
4:S:670:LEU:HB3	4:S:732:PHE:CD1	2.51	0.45
4:S:756:PHE:HD1	4:S:765:LEU:HG	1.82	0.45
4:S:1115:HIS:ND1	4:S:1183:CYS:HB2	2.31	0.45
4:S:2307:MET:HA	4:S:2316:TYR:HA	1.98	0.45
4:S:2425:ARG:HD3	4:S:2457:PRO:HB3	1.98	0.45
4:S:2745:ARG:O	8:W:13:DA:H2''	2.16	0.45
4:S:3037:GLN:CG	4:S:3044:MET:HG3	2.46	0.45
4:S:3137:GLU:HB3	4:S:3185:ASN:HD22	1.81	0.45
4:S:4055:ASN:HD22	4:S:4058:VAL:HG23	1.81	0.45
5:T:144:SER:O	5:T:189:LYS:NZ	2.43	0.45
5:T:317:LYS:HZ2	5:T:330:GLU:HB2	1.80	0.45
5:T:358:LYS:HG2	6:U:353:ARG:NE	2.29	0.45
6:U:40:MET:HB3	6:U:231:LEU:HD23	1.98	0.45
6:U:645:GLU:O	6:U:648:LYS:HB2	2.16	0.45
1:K:28:LEU:HB2	1:K:71:ARG:CZ	2.45	0.45
1:L:88:PHE:HA	1:L:95:PHE:HA	1.99	0.45
1:L:99:LYS:HE3	1:L:108:LEU:HB2	1.97	0.45
2:M:702:ALA:O	2:M:723:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:33:VAL:HG13	1:O:46:THR:HB	1.98	0.45
4:F:127:ALA:O	4:F:130:LEU:HB3	2.16	0.45
4:F:458:CYS:O	4:F:462:VAL:HG13	2.16	0.45
4:F:701:TYR:HA	4:F:704:PHE:CD2	2.51	0.45
4:F:1013:ILE:O	4:F:1017:ILE:HB	2.17	0.45
4:F:1635:LYS:HD2	4:F:1635:LYS:HA	1.66	0.45
4:F:1816:ARG:HA	4:F:1816:ARG:HD3	1.81	0.45
4:F:1878:ASP:HB3	4:F:1947:CYS:HA	1.99	0.45
4:F:2216:LEU:HD12	4:F:2219:LEU:HD11	1.98	0.45
4:F:2357:GLU:HA	4:F:2360:PHE:CD2	2.52	0.45
4:F:2404:ARG:NH1	4:F:2406:GLU:OE2	2.49	0.45
4:F:2549:LYS:HA	4:F:2848:PHE:HZ	1.81	0.45
4:F:2792:THR:N	4:F:2793:PRO:HD2	2.31	0.45
4:F:3457:ASN:N	4:F:3457:ASN:OD1	2.49	0.45
4:F:3499:ILE:HD11	4:F:3529:ILE:HG13	1.97	0.45
4:F:3669:LYS:HG3	4:F:3670:MET:N	2.31	0.45
4:F:3738:ILE:HG13	4:F:3750:PHE:HB2	1.98	0.45
5:G:259:LEU:HD23	5:G:259:LEU:HA	1.81	0.45
5:G:318:ARG:HH21	6:H:278:VAL:HG13	1.81	0.45
4:A:935:HIS:O	4:A:938:VAL:HG12	2.17	0.45
4:A:1572:LEU:HD23	4:A:1575:LEU:HD21	1.98	0.45
4:A:2358:ASP:N	4:A:2358:ASP:OD1	2.44	0.45
4:A:2791:ILE:O	4:A:2795:GLN:N	2.38	0.45
4:A:3100:LYS:O	4:A:3103:ILE:HG22	2.16	0.45
4:A:3584:LEU:HD12	4:A:3617:LEU:HD21	1.98	0.45
4:A:3923:ARG:HG3	4:A:3961:PHE:HA	1.97	0.45
5:B:458:GLN:HB3	5:B:462:MET:HE1	1.98	0.45
4:S:56:SER:HA	4:S:59:PHE:CD2	2.51	0.45
4:S:304:THR:HG22	4:S:305:ASN:N	2.30	0.45
4:S:628:GLU:OE2	4:S:668:LYS:HD2	2.16	0.45
4:S:1204:PRO:HG2	4:S:1206:LEU:HB2	1.98	0.45
4:S:1337:VAL:O	4:S:1341:ILE:HG23	2.16	0.45
4:S:1342:MET:O	4:S:1346:THR:HG23	2.16	0.45
4:S:2580:PRO:HG2	4:S:2582:SER:O	2.16	0.45
4:S:2738:LYS:HE2	4:S:2742:MET:HE3	1.99	0.45
4:S:3145:ILE:HG12	4:S:3189:PHE:HE1	1.82	0.45
4:S:3457:ASN:HB2	4:S:3709:GLY:HA3	1.99	0.45
4:S:3931:ALA:HA	4:S:3935:GLY:HA2	1.99	0.45
4:S:3950:THR:H	4:S:4066:LEU:C	2.19	0.45
5:T:261:LEU:H	5:T:271:VAL:HG22	1.80	0.45
6:U:621:GLU:O	6:U:669:LYS:NZ	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:43:TRP:HA	1:L:115:LYS:HA	1.97	0.45
1:L:66:TYR:HB2	3:Y:113:SER:O	2.17	0.45
1:L:169:LYS:HE3	1:L:169:LYS:HB3	1.78	0.45
2:P:654:LYS:HB2	2:P:684:GLU:O	2.16	0.45
2:P:721:VAL:HB	2:P:742:PHE:HD2	1.81	0.45
3:Q:166:ASP:O	3:Q:169:GLU:HG2	2.17	0.45
3:R:8:LEU:HG	3:R:37:LEU:HD22	1.98	0.45
3:R:34:TYR:HE1	3:R:54:VAL:HG21	1.82	0.45
3:R:78:ASN:HB3	3:R:85:LYS:HA	1.98	0.45
3:R:139:LEU:HD21	3:R:210:PHE:CE2	2.52	0.45
4:F:70:ARG:HD3	4:F:71:LYS:HD3	1.98	0.45
4:F:295:GLU:OE1	4:F:295:GLU:N	2.49	0.45
4:F:297:LEU:HD21	4:F:319:PHE:CD2	2.52	0.45
4:F:894:PHE:HB3	4:F:907:LEU:HD21	1.98	0.45
4:F:2471:GLU:HA	4:F:2474:TYR:CD2	2.51	0.45
4:F:2965:TYR:CD2	4:F:3253:SER:HB3	2.52	0.45
4:F:3606:ILE:HA	4:F:3609:MET:HG3	1.97	0.45
4:F:3870:SER:HA	4:F:3873:LYS:HE2	1.99	0.45
6:H:27:ILE:HD11	6:H:227:PHE:HE2	1.80	0.45
6:H:162:GLN:N	6:H:219:ASP:OD2	2.46	0.45
8:J:25:DT:H3'	8:J:26:DT:N3	2.32	0.45
4:A:651:TYR:O	4:A:655:LEU:HG	2.17	0.45
4:A:771:ASN:HD21	4:A:854:ARG:NH2	2.13	0.45
4:A:776:TRP:HB3	4:A:780:ILE:HD12	1.97	0.45
4:A:993:HIS:CD2	4:A:1039:TRP:CE2	3.04	0.45
4:A:1038:LYS:HE3	4:A:1039:TRP:CD1	2.51	0.45
4:A:1181:THR:HG22	4:A:1261:LEU:HD13	1.98	0.45
4:A:2572:TYR:O	4:A:2787:HIS:HB2	2.16	0.45
4:A:3236:PHE:HE2	4:A:3275:SER:HB3	1.81	0.45
4:A:3775:LEU:HD22	4:A:3913:ILE:HG21	1.97	0.45
5:B:65:GLN:HG3	5:B:243:LEU:HD22	1.99	0.45
5:B:285:PRO:HB3	6:C:314:PHE:CZ	2.51	0.45
4:S:125:ILE:H	4:S:125:ILE:HD12	1.81	0.45
4:S:131:LEU:HD21	4:S:174:VAL:HG12	1.99	0.45
4:S:373:CYS:HB3	4:S:381:VAL:HG22	1.99	0.45
4:S:983:LEU:HA	4:S:2591:ILE:HD12	1.98	0.45
4:S:1458:LEU:HB3	4:S:1463:LEU:HB2	1.99	0.45
4:S:2132:LYS:HD3	4:S:2135:ASN:ND2	2.32	0.45
4:S:2253:TYR:O	4:S:2299:TYR:OH	2.20	0.45
4:S:2571:ASP:O	4:S:2787:HIS:ND1	2.50	0.45
4:S:3107:ILE:O	4:S:3111:MET:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3128:LYS:O	4:S:3132:VAL:HG23	2.16	0.45
4:S:3465:PHE:O	4:S:3469:LEU:HG	2.16	0.45
5:T:492:ALA:HB2	5:T:500:PRO:HA	1.99	0.45
1:K:36:LEU:HD23	1:K:113:LEU:HD11	1.99	0.45
1:K:137:ASN:HB2	1:L:134:ILE:O	2.15	0.45
1:K:180:PHE:HE2	1:L:176:LEU:HB3	1.81	0.45
2:M:875:PHE:O	2:M:879:ARG:HG3	2.16	0.45
1:N:28:LEU:HD21	1:N:70:LEU:HB2	1.98	0.45
1:N:100:ASN:OD1	1:N:106:PHE:N	2.48	0.45
2:P:865:ILE:HG12	2:P:889:LEU:O	2.16	0.45
3:R:43:GLN:HB3	3:R:45:TRP:CH2	2.51	0.45
3:R:197:LYS:HA	3:R:200:GLU:HG2	1.99	0.45
4:F:993:HIS:CE1	4:F:1035:GLU:HG3	2.52	0.45
4:F:1342:MET:SD	4:F:1402:LEU:HD22	2.56	0.45
4:F:2346:ALA:O	4:F:2349:LEU:HB2	2.16	0.45
4:F:2422:GLN:O	4:F:2425:ARG:HB3	2.15	0.45
4:F:2825:THR:HG22	4:F:2828:GLU:HG2	1.98	0.45
4:F:2959:ALA:HB1	4:F:2964:ASP:HB3	1.99	0.45
4:F:3515:GLN:HB3	4:F:3554:PHE:CE2	2.51	0.45
4:F:3571:PHE:CG	4:F:3699:LEU:HD13	2.52	0.45
4:F:3988:LEU:HA	4:F:3991:PHE:CD2	2.52	0.45
5:G:75:ILE:HG13	5:G:111:PRO:HB2	1.99	0.45
5:G:514:MET:N	5:G:514:MET:SD	2.83	0.45
6:H:594:PRO:O	6:H:597:ASN:HB3	2.17	0.45
7:I:41:DT:HI'	7:I:42:DA:N7	2.30	0.45
4:A:55:THR:HA	4:A:58:VAL:HG22	1.98	0.45
4:A:896:VAL:HG23	4:A:903:PRO:O	2.16	0.45
4:A:1143:VAL:O	4:A:1147:LYS:HD3	2.17	0.45
4:A:1527:ARG:HA	4:A:1527:ARG:HD2	1.77	0.45
4:A:2824:LYS:HB3	4:A:2829:LYS:HE3	1.99	0.45
4:A:3959:MET:HG2	4:A:4124:TRP:CE2	2.52	0.45
5:B:142:SER:HB3	5:B:145:GLU:HG2	1.98	0.45
6:C:43:GLN:HA	6:C:46:VAL:HG22	1.98	0.45
4:S:356:ASN:HA	4:S:359:LEU:HB2	1.97	0.45
4:S:1064:TYR:HD2	4:S:1152:ARG:NH1	2.15	0.45
4:S:1338:VAL:O	4:S:1341:ILE:HG12	2.17	0.45
4:S:1515:LEU:HD13	4:S:1566:THR:OG1	2.16	0.45
4:S:1672:PHE:CZ	4:S:1676:ILE:HD11	2.51	0.45
4:S:2443:MET:HE3	4:S:2479:TRP:CE3	2.52	0.45
4:S:2541:ALA:O	4:S:2545:LEU:N	2.39	0.45
4:S:3458:SER:O	4:S:3462:ARG:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:254:ARG:O	8:W:26:DT:H5'	2.17	0.45
5:T:358:LYS:HG3	6:U:356:PHE:HD2	1.82	0.45
6:U:132:ILE:HD11	6:U:161:LEU:HB2	1.99	0.45
7:V:27:DC:N4	8:W:31:DT:H3	2.15	0.45
3:X:214:LEU:HD21	3:Y:147:GLN:HB2	1.99	0.45
1:K:136:GLU:N	1:L:137:ASN:CB	2.79	0.45
1:K:137:ASN:H	1:L:136:GLU:H	1.65	0.45
2:P:730:PHE:O	2:P:733:LYS:NZ	2.32	0.45
4:F:73:LEU:HB2	4:F:78:PHE:CD2	2.52	0.45
4:F:1742:CYS:HB3	4:F:1746:PHE:CZ	2.52	0.45
4:F:2425:ARG:HH12	4:F:2457:PRO:HA	1.82	0.45
4:F:3001:CYS:HA	4:F:3004:HIS:ND1	2.32	0.45
4:F:3262:LEU:HD13	4:F:3276:TRP:HA	1.98	0.45
4:F:3327:ASN:O	4:F:3384:HIS:HB3	2.16	0.45
4:F:3618:GLY:O	4:F:3638:LYS:HG2	2.17	0.45
4:F:3627:ALA:H	4:F:3677:PRO:HB3	1.82	0.45
5:G:287:LYS:O	5:G:295:PRO:HA	2.16	0.45
5:G:320:GLN:HB3	5:G:322:TYR:CD2	2.51	0.45
5:G:413:LEU:HB3	5:G:432:PHE:CD1	2.52	0.45
5:G:465:ILE:HD11	5:G:525:PHE:HD2	1.82	0.45
5:G:467:GLU:HB2	6:H:387:LEU:HD13	1.99	0.45
6:H:168:SER:HB2	6:H:192:PHE:H	1.81	0.45
4:A:126:PRO:HA	4:A:129:ASP:HB2	1.98	0.45
4:A:466:LEU:HD13	4:A:560:LEU:HG	1.99	0.45
4:A:749:VAL:HG13	4:A:792:ILE:HG12	1.98	0.45
4:A:913:ARG:HH12	4:A:917:LEU:HB2	1.81	0.45
4:A:992:ILE:HD12	4:A:1036:PHE:HB2	1.98	0.45
4:A:1104:LEU:HB2	4:A:1134:LEU:HD22	1.98	0.45
4:A:1119:LYS:HG2	4:A:1124:ILE:HG13	1.99	0.45
4:A:1238:GLN:OE1	4:A:1243:TYR:HB2	2.16	0.45
4:A:1627:LYS:HA	4:A:1670:GLU:OE1	2.16	0.45
4:A:2501:LEU:O	4:A:2505:VAL:HG22	2.16	0.45
4:A:3161:LEU:HA	4:A:3164:TRP:CD1	2.51	0.45
4:A:3330:LEU:HD23	4:A:3384:HIS:CD2	2.51	0.45
4:A:3535:ILE:HG13	4:A:3798:SER:HB2	1.98	0.45
4:A:3951:GLN:OE1	4:A:3951:GLN:N	2.50	0.45
4:A:3962:ARG:HD2	4:A:4124:TRP:CZ2	2.52	0.45
4:A:4086:ASP:N	4:A:4086:ASP:OD1	2.49	0.45
5:B:166:ILE:HB	5:B:200:LEU:HD13	1.99	0.45
5:B:214:SER:H	5:B:218:ARG:HH21	1.64	0.45
5:B:304:ASN:N	5:B:309:GLY:O	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:376:ILE:HB	6:C:539:LEU:HA	1.99	0.45
5:B:377:GLY:HA3	6:C:539:LEU:HB3	1.98	0.45
10:E:22:DG:H1'	10:E:23:DT:O4	2.17	0.45
4:S:623:PHE:O	4:S:626:LEU:HG	2.17	0.45
4:S:1107:TYR:HD2	4:S:1131:ILE:HG23	1.81	0.45
4:S:1942:CYS:O	4:S:1945:TYR:HB3	2.16	0.45
4:S:3676:PRO:O	4:S:3678:GLY:N	2.50	0.45
5:T:387:ILE:HD11	6:U:446:PRO:HD3	1.99	0.45
6:U:35:LYS:O	6:U:39:THR:HG23	2.16	0.45
7:V:45:DG:H2''	8:W:13:DA:C4	2.52	0.45
1:K:36:LEU:HD12	1:K:37:THR:H	1.81	0.45
1:N:10:LEU:HA	1:N:86:PHE:HB2	1.98	0.45
1:N:179:ARG:HB3	2:P:805:TRP:CE2	2.52	0.45
2:P:694:GLY:N	2:P:697:THR:OG1	2.49	0.45
2:P:799:LEU:HA	2:P:802:ARG:HG2	1.99	0.45
3:R:139:LEU:HD21	3:R:210:PHE:CZ	2.52	0.45
4:F:881:LYS:HD3	4:F:3900:LEU:HD22	1.99	0.45
4:F:890:LYS:NZ	4:F:908:ASP:H	2.15	0.45
4:F:1289:SER:HA	4:F:1292:LYS:HB3	1.98	0.45
4:F:1693:VAL:HG11	4:F:1746:PHE:HD1	1.80	0.45
4:F:1881:TYR:HH	4:F:1955:VAL:H	1.63	0.45
4:F:2120:ARG:NH1	4:F:2159:PRO:O	2.50	0.45
4:F:2386:LEU:HD23	4:F:2418:LYS:HE2	1.98	0.45
4:F:2388:LYS:NZ	5:G:157:VAL:O	2.45	0.45
4:F:2573:PRO:HA	4:F:2786:LYS:NZ	2.31	0.45
4:F:3356:ALA:O	4:F:3359:ILE:HG22	2.16	0.45
4:F:3777:GLN:N	4:F:3786:LEU:O	2.50	0.45
4:F:3971:MET:HE1	4:F:3973:PRO:HD2	1.98	0.45
4:F:3986:HIS:N	4:F:3989:ARG:HH21	2.14	0.45
4:F:4086:ASP:N	4:F:4086:ASP:OD1	2.49	0.45
4:F:4109:ASP:O	4:F:4114:PRO:HD3	2.16	0.45
5:G:301:ARG:O	6:H:291:LYS:HD2	2.16	0.45
6:H:184:ARG:HH22	6:H:476:LEU:HG	1.80	0.45
6:H:496:HIS:CD2	6:H:500:HIS:CE1	3.05	0.45
6:H:663:GLN:HA	6:H:666:VAL:HG12	1.98	0.45
4:A:132:ILE:HA	4:A:177:LEU:HD11	1.99	0.45
4:A:183:GLU:HG3	4:A:185:HIS:H	1.80	0.45
4:A:225:LYS:HE2	4:A:253:LEU:HD22	1.99	0.45
4:A:260:ILE:O	4:A:265:TYR:HB2	2.17	0.45
4:A:434:VAL:HG12	4:A:438:LEU:HD23	1.99	0.45
4:A:671:SER:O	4:A:675:ARG:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:782:ARG:HH12	4:A:862:LEU:HD22	1.80	0.45
4:A:1148:ALA:HA	4:A:1164:CYS:HB3	1.98	0.45
4:A:1282:LEU:HD21	4:A:1288:SER:HB3	1.99	0.45
4:A:2321:GLU:O	4:A:2370:SER:OG	2.20	0.45
4:A:2526:SER:HB3	4:A:2561:PHE:CD1	2.52	0.45
4:A:2773:ARG:HG3	4:A:2775:TYR:CD1	2.51	0.45
4:A:3631:LYS:HB3	4:A:3675:LYS:HE2	1.99	0.45
4:A:3975:LYS:HD3	4:A:3975:LYS:HA	1.62	0.45
6:C:509:GLN:HG3	6:C:511:HIS:HB3	1.99	0.45
4:S:1011:GLU:O	4:S:1014:LEU:HG	2.17	0.45
4:S:1419:LEU:HD21	4:S:1458:LEU:HD22	1.99	0.45
4:S:2968:ALA:O	4:S:2972:TYR:HB2	2.17	0.45
4:S:3490:VAL:HG13	4:S:3490:VAL:O	2.17	0.45
4:S:3751:LEU:HD13	4:S:3803:ILE:HD11	1.98	0.45
4:S:3775:LEU:HD21	4:S:3914:SER:HB3	1.98	0.45
5:T:259:LEU:HG	7:V:33:DA:H8	1.82	0.45
6:U:16:VAL:HA	6:U:20:MET:CE	2.43	0.45
6:U:497:ARG:HG3	6:U:501:PRO:HA	1.98	0.45
3:Y:68:PRO:HA	3:Y:69:PRO:HD3	1.90	0.45
1:N:157:ASP:OD2	2:P:837:ARG:NH1	2.50	0.45
3:Q:54:VAL:HA	3:Q:57:ARG:NH2	2.30	0.45
3:R:13:TRP:CE2	3:R:134:HIS:HD2	2.34	0.45
4:F:368:LEU:O	4:F:370:ALA:N	2.50	0.45
4:F:682:TYR:CE1	4:F:700:LYS:HD3	2.51	0.45
4:F:849:GLU:O	4:F:853:ILE:HG13	2.17	0.45
4:F:1382:ILE:HD11	4:F:1385:ASN:HB2	1.98	0.45
4:F:1625:HIS:HA	4:F:1628:LYS:CE	2.47	0.45
4:F:2157:PHE:HB2	4:F:2164:TRP:HE1	1.81	0.45
4:F:2304:VAL:HB	4:F:2348:GLN:HE21	1.82	0.45
4:F:2318:ALA:HA	4:F:2366:LYS:HZ3	1.82	0.45
4:F:2397:CYS:HA	4:F:2400:VAL:HG22	1.98	0.45
4:F:2584:CYS:SG	4:F:2780:LEU:HB2	2.57	0.45
4:F:2788:SER:HA	4:F:2791:ILE:HG12	1.99	0.45
4:F:3467:ARG:HH21	4:F:3471:ILE:HB	1.82	0.45
4:F:3522:THR:HG21	4:F:3558:ILE:HG23	1.99	0.45
4:F:4061:CYS:HB2	4:F:4078:VAL:HB	1.98	0.45
6:H:194:LEU:HD12	6:H:205:LEU:HD21	1.97	0.45
7:I:29:DA:H1'	7:I:30:DA:C2	2.52	0.45
4:A:300:TRP:HA	4:A:303:HIS:HD1	1.82	0.45
4:A:392:CYS:HA	4:A:396:PHE:HD2	1.81	0.45
4:A:1816:ARG:HA	4:A:1819:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1880:MET:O	4:A:1883:ARG:HG2	2.17	0.45
4:A:2426:HIS:NE2	4:A:2428:ASP:HB2	2.31	0.45
4:A:4104:VAL:O	4:A:4108:MET:HG2	2.17	0.45
5:B:357:LYS:HB3	5:B:359:HIS:CE1	2.52	0.45
5:B:461:LYS:HD3	5:B:522:VAL:HA	1.99	0.45
6:C:220:GLY:O	6:C:224:ILE:HG13	2.17	0.45
6:C:246:HIS:HA	6:C:262:ALA:HA	1.98	0.45
6:C:488:GLN:HA	6:C:491:PHE:CD2	2.52	0.45
4:S:542:ASP:OD1	4:S:543:SER:N	2.48	0.45
4:S:654:ILE:HG12	4:S:710:PHE:CD2	2.51	0.45
4:S:2133:LEU:HD22	4:S:2164:TRP:CZ3	2.51	0.45
4:S:2143:ARG:HA	4:S:2146:LEU:HG	1.99	0.45
4:S:3533:PHE:CD2	4:S:3534:ILE:HG12	2.51	0.45
4:S:3909:ALA:HA	4:S:3912:CYS:HB2	1.98	0.45
4:S:3988:LEU:HD22	4:S:4104:VAL:HG13	1.99	0.45
5:T:250:GLU:HG2	6:U:428:GLU:O	2.16	0.45
5:T:397:LEU:HA	5:T:412:ALA:HA	1.98	0.45
6:U:45:GLN:CA	6:U:236:VAL:HB	2.47	0.45
6:U:251:LEU:HD22	6:U:261:ILE:N	2.32	0.45
6:U:368:ARG:HA	6:U:368:ARG:CZ	2.46	0.45
3:X:204:ILE:HG21	3:Y:140:MET:SD	2.57	0.45
1:K:24:TRP:CE3	1:K:75:LEU:HD12	2.52	0.45
3:Q:31:LYS:HZ1	3:Q:73:LEU:HD23	1.81	0.45
3:Q:136:ILE:HG23	3:Q:140:MET:HG2	1.99	0.45
4:F:73:LEU:N	4:F:82:ARG:HH22	2.15	0.45
4:F:273:ARG:O	4:F:276:ALA:HB3	2.16	0.45
4:F:483:VAL:HG21	4:F:567:GLU:HG3	1.97	0.45
4:F:1419:LEU:HD23	4:F:1467:ILE:HG12	1.99	0.45
4:F:2139:PRO:O	4:F:2143:ARG:N	2.38	0.45
4:F:2183:HIS:O	4:F:2187:VAL:HG23	2.16	0.45
4:F:2257:PHE:HB2	4:F:2299:TYR:HE1	1.81	0.45
4:F:2556:SER:OG	4:F:2799:GLN:HA	2.17	0.45
4:F:3531:TYR:HB2	4:F:3532:PRO:HD3	1.99	0.45
4:F:3603:LYS:HG2	4:F:3647:GLY:N	2.32	0.45
4:F:3765:GLU:HB3	4:F:3792:SER:HA	1.97	0.45
4:F:3980:MET:N	4:F:3980:MET:SD	2.90	0.45
5:G:325:ARG:HH11	6:H:88:PHE:HB3	1.81	0.45
5:G:343:PRO:HA	5:G:401:THR:HB	1.99	0.45
5:G:476:ASP:OD1	5:G:476:ASP:N	2.39	0.45
5:G:486:HIS:HA	6:H:331:MET:HE1	1.98	0.45
6:H:41:PHE:HA	6:H:236:VAL:HG11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:397:TYR:CZ	7:I:24:DA:H3'	2.52	0.45
6:H:679:VAL:HG13	6:H:705:LEU:HB3	1.99	0.45
4:A:52:ALA:HA	4:A:55:THR:HG22	1.99	0.45
4:A:76:ILE:HD12	4:A:76:ILE:HA	1.74	0.45
4:A:720:GLN:OE1	4:A:1023:SER:N	2.50	0.45
4:A:863:GLY:N	4:A:3167:ARG:HD3	2.32	0.45
4:A:1783:ARG:HG3	4:A:1826:THR:HB	1.99	0.45
4:A:1789:GLY:O	4:A:1794:GLN:NE2	2.50	0.45
4:A:3719:ILE:HG12	4:A:3740:ILE:HG21	1.99	0.45
4:A:4069:GLU:O	4:A:4071:ALA:N	2.50	0.45
5:B:361:TYR:HA	5:B:436:PHE:HD2	1.82	0.45
5:B:444:ARG:HD3	6:C:360:GLN:HB3	1.97	0.45
6:C:12:LEU:HD23	6:C:54:ILE:HB	1.98	0.45
6:C:57:VAL:HG22	6:C:79:VAL:HG23	1.99	0.45
6:C:210:MET:HA	6:C:213:ILE:HG12	1.98	0.45
6:C:321:VAL:HG13	6:C:323:PHE:HB2	1.99	0.45
4:S:490:ILE:HG21	4:S:524:TYR:H	1.82	0.45
4:S:861:SER:N	4:S:3136:THR:HG21	2.32	0.45
4:S:1215:GLU:HB3	4:S:1218:SER:HB3	1.98	0.45
4:S:1249:SER:HB2	4:S:1251:GLN:NE2	2.31	0.45
4:S:1282:LEU:HB2	4:S:1359:LEU:HD22	1.99	0.45
4:S:1396:PRO:O	4:S:1400:VAL:HG23	2.17	0.45
4:S:1787:ARG:NE	4:S:1830:HIS:HE1	2.15	0.45
4:S:1840:PHE:HZ	4:S:1912:THR:HG22	1.82	0.45
4:S:1876:ILE:O	4:S:1879:VAL:HG12	2.17	0.45
4:S:2806:LYS:HD2	4:S:2807:GLN:NE2	2.32	0.45
4:S:3580:ASN:HB2	4:S:3583:LEU:HD12	1.99	0.45
5:T:67:ILE:HD11	5:T:119:LEU:HD11	1.99	0.45
5:T:148:TRP:N	5:T:189:LYS:HZ1	2.14	0.45
5:T:350:PHE:HA	5:T:397:LEU:HB3	1.98	0.45
6:U:74:TYR:CD1	6:U:109:ASP:HB3	2.52	0.45
7:V:25:DA:H2'	7:V:26:DA:C4	2.52	0.45
1:L:21:GLN:NE2	1:L:125:GLU:OE1	2.40	0.45
2:M:757:GLU:HG3	2:M:758:TYR:CE2	2.52	0.45
2:P:826:ILE:HD11	2:P:875:PHE:CE2	2.52	0.45
3:Q:10:MET:HG3	3:Q:222:THR:HG21	1.98	0.45
3:Q:53:VAL:HA	3:Q:56:GLN:HG3	1.98	0.45
3:R:55:SER:O	3:R:59:LYS:HG2	2.16	0.45
3:R:164:ILE:O	3:R:168:GLN:HG3	2.16	0.45
4:F:10:CYS:O	4:F:14:ARG:N	2.30	0.45
4:F:156:PHE:HA	4:F:159:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:418:ALA:HB3	4:F:463:LYS:HZ3	1.82	0.45
4:F:770:LEU:HD23	4:F:773:LEU:HD12	1.99	0.45
4:F:1915:LEU:HD12	4:F:1918:LEU:HD12	1.99	0.45
4:F:2090:ARG:HH12	4:F:2148:LYS:HZ1	1.64	0.45
4:F:2122:LEU:O	4:F:2127:LYS:HG2	2.16	0.45
4:F:2184:TYR:O	4:F:2188:GLU:HG3	2.17	0.45
4:F:2328:ARG:HE	4:F:2370:SER:C	2.19	0.45
4:F:3075:LYS:O	4:F:3079:GLU:OE1	2.35	0.45
4:F:3702:PRO:HB2	4:F:3794:VAL:HG21	1.99	0.45
5:G:193:LEU:O	5:G:197:GLY:N	2.50	0.45
5:G:363:ARG:NH1	8:J:28:DA:OP1	2.45	0.45
5:G:463:LYS:HG3	6:H:383:ALA:HB1	1.98	0.45
6:H:182:PRO:HA	6:H:184:ARG:NH2	2.32	0.45
6:H:489:ARG:O	6:H:492:GLN:HG3	2.17	0.45
7:I:20:DT:H4'	8:J:36:DG:C5	2.51	0.45
4:A:85:ILE:HG13	4:A:86:LEU:HD22	1.99	0.45
4:A:939:MET:HE3	4:A:2785:ILE:HD13	1.99	0.45
4:A:1001:PHE:N	4:A:1002:GLU:OE1	2.50	0.45
4:A:1089:PHE:CZ	4:A:1096:VAL:HG22	2.52	0.45
4:A:2290:PRO:HG3	4:A:2298:GLU:N	2.27	0.45
4:A:2825:THR:O	4:A:2829:LYS:HG2	2.17	0.45
4:A:3490:VAL:HB	4:A:3493:TRP:H	1.82	0.45
4:A:3530:VAL:HG23	4:A:3531:TYR:N	2.31	0.45
4:A:4054:ALA:O	4:A:4103:GLN:NE2	2.50	0.45
5:B:439:PHE:CD2	6:C:269:GLN:HA	2.51	0.45
5:B:521:LEU:HA	5:B:524:GLU:HB3	2.00	0.45
6:C:11:VAL:HG21	6:C:114:SER:HB2	1.99	0.45
6:C:56:LEU:HD23	6:C:80:HIS:ND1	2.32	0.45
6:C:109:ASP:OD1	6:C:146:GLN:NE2	2.45	0.45
4:S:13:LEU:HB2	4:S:59:PHE:CD2	2.52	0.45
4:S:425:ASP:OD1	4:S:425:ASP:N	2.49	0.45
4:S:2133:LEU:HD23	4:S:2167:PRO:O	2.17	0.45
4:S:2428:ASP:O	4:S:2432:GLN:N	2.50	0.45
4:S:2798:ALA:HB2	4:S:2808:LEU:HD13	1.99	0.45
4:S:3529:ILE:HB	4:S:3562:LEU:HD21	1.99	0.45
4:S:3874:ARG:HH11	4:S:4126:PRO:HB2	1.81	0.45
4:S:3984:MET:O	4:S:4104:VAL:HG11	2.17	0.45
4:S:4076:ASP:O	4:S:4080:VAL:HG22	2.17	0.45
5:T:297:LYS:HG3	6:U:298:ASN:OD1	2.16	0.45
6:U:439:LYS:HA	6:U:445:ALA:HB2	1.99	0.45
1:L:129:TYR:HA	1:L:132:ASP:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:729:CYS:HA	2:M:736:VAL:HG23	1.98	0.44
1:N:21:GLN:HE21	1:N:122:VAL:HG22	1.82	0.44
4:F:289:ASN:O	4:F:293:LEU:HD13	2.16	0.44
4:F:385:TYR:O	4:F:389:ILE:HG12	2.17	0.44
4:F:469:ALA:HA	4:F:475:LEU:HD13	1.99	0.44
4:F:621:SER:O	4:F:625:ASN:ND2	2.50	0.44
4:F:738:HIS:O	4:F:742:GLU:HG3	2.17	0.44
4:F:1816:ARG:NH2	6:H:624:LEU:O	2.50	0.44
4:F:2219:LEU:HA	4:F:2222:HIS:HB2	1.98	0.44
4:F:3311:ASN:HB2	4:F:3315:TYR:N	2.33	0.44
4:F:3575:LEU:HD12	4:F:3681:LYS:H	1.82	0.44
5:G:261:LEU:N	5:G:269:ILE:O	2.49	0.44
5:G:388:LYS:HZ1	6:H:451:LEU:HG	1.82	0.44
6:H:16:VAL:O	6:H:101:GLY:HA2	2.18	0.44
6:H:245:ILE:HG13	7:I:22:DA:H5"	1.99	0.44
4:A:36:ARG:HE	4:A:2425:ARG:C	2.21	0.44
4:A:436:GLU:HB3	4:A:489:ARG:NH2	2.32	0.44
4:A:465:PHE:CZ	4:A:482:VAL:HG11	2.46	0.44
4:A:732:PHE:O	4:A:736:LEU:HG	2.17	0.44
4:A:900:GLU:OE1	4:A:900:GLU:N	2.50	0.44
4:A:1111:LEU:HG	4:A:1183:CYS:SG	2.57	0.44
4:A:1250:LEU:HD13	4:A:1326:GLU:HB3	1.98	0.44
4:A:1731:PRO:HA	4:A:1736:PHE:CD2	2.53	0.44
4:A:1773:VAL:HB	4:A:1778:PHE:HE1	1.82	0.44
4:A:1802:TYR:HA	4:A:1805:PHE:HB3	1.98	0.44
4:A:1986:ARG:HB3	4:A:2184:TYR:CE1	2.51	0.44
4:A:2161:ALA:HB3	4:A:2199:LEU:HB3	1.98	0.44
4:A:3100:LYS:HB2	4:A:3142:ILE:HD13	1.99	0.44
5:B:345:LEU:HA	5:B:399:ARG:O	2.17	0.44
6:C:119:GLN:NE2	6:C:153:SER:HA	2.32	0.44
4:S:12:LEU:HD21	4:S:88:PHE:HE1	1.82	0.44
4:S:32:HIS:HA	4:S:35:ILE:HG22	1.98	0.44
4:S:332:GLU:HG3	4:S:336:ASN:OD1	2.17	0.44
4:S:344:GLN:HB3	4:S:366:TYR:CD1	2.51	0.44
4:S:970:LEU:HD13	4:S:1014:LEU:HD12	1.99	0.44
4:S:996:THR:HA	4:S:1001:PHE:HE1	1.83	0.44
4:S:1249:SER:HB3	4:S:1313:PHE:HA	1.99	0.44
4:S:1475:LEU:HG	4:S:1527:ARG:HB2	1.99	0.44
4:S:2171:LEU:HD12	4:S:2172:ALA:N	2.32	0.44
4:S:2257:PHE:CE1	4:S:2299:TYR:HA	2.52	0.44
4:S:2854:PHE:O	4:S:2858:ILE:HG12	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2930:TYR:CE1	4:S:3898:LEU:HD11	2.52	0.44
4:S:3004:HIS:O	4:S:3176:MET:HG3	2.16	0.44
4:S:3424:LEU:HD13	4:S:3475:TYR:CD1	2.52	0.44
4:S:3753:LYS:H	4:S:3802:LEU:HA	1.81	0.44
5:T:418:GLU:OE2	5:T:420:LEU:HD13	2.17	0.44
6:U:595:ALA:HB1	6:U:599:ARG:NH2	2.31	0.44
6:U:640:ARG:HH2	6:U:678:VAL:HG12	1.82	0.44
3:X:211:VAL:HG23	3:X:212:MET:SD	2.57	0.44
1:K:37:THR:HA	1:K:42:ALA:HA	1.98	0.44
2:M:738:TRP:CD2	2:M:750:THR:HG23	2.52	0.44
1:N:43:TRP:HB3	1:N:93:CYS:SG	2.57	0.44
1:N:56:ALA:HA	1:N:59:MET:HG3	1.99	0.44
1:N:144:LEU:HG	1:O:144:LEU:CG	2.48	0.44
2:P:856:LEU:HA	2:P:860:VAL:HG21	1.99	0.44
3:R:133:GLN:HE22	3:R:137:ARG:HD2	1.82	0.44
3:R:153:LEU:O	3:R:157:LEU:HD23	2.18	0.44
4:F:114:VAL:CG1	4:F:119:ARG:HE	2.30	0.44
4:F:153:PHE:HE2	4:F:192:ASN:HD22	1.63	0.44
4:F:1101:PHE:CE1	4:F:1163:LEU:HB3	2.52	0.44
4:F:1877:LEU:HD23	4:F:1880:MET:SD	2.57	0.44
4:F:2254:ARG:NH2	4:F:2292:CYS:HB3	2.31	0.44
4:F:2475:ASN:O	4:F:2478:MET:HG3	2.17	0.44
4:F:3515:GLN:HA	4:F:3518:VAL:HG22	1.99	0.44
4:F:3603:LYS:NZ	4:F:3647:GLY:H	2.16	0.44
4:F:3640:PHE:HA	4:F:3643:HIS:ND1	2.32	0.44
4:F:3778:ASP:N	4:F:3781:CYS:HB2	2.22	0.44
4:F:3961:PHE:HE2	4:F:4107:LEU:HG	1.82	0.44
5:G:206:LYS:HE3	5:G:207:LYS:HZ3	1.82	0.44
5:G:353:LEU:O	5:G:353:LEU:HD23	2.18	0.44
6:H:468:GLU:HB3	6:H:471:ASP:OD1	2.17	0.44
4:A:162:LEU:HG	4:A:163:LYS:H	1.81	0.44
4:A:225:LYS:HA	4:A:225:LYS:HD3	1.84	0.44
4:A:887:ASP:N	4:A:887:ASP:OD1	2.50	0.44
4:A:925:GLN:HA	4:A:2769:VAL:HG23	2.00	0.44
4:A:1375:THR:HG21	4:A:1395:LEU:CB	2.47	0.44
4:A:1389:VAL:O	4:A:1392:MET:N	2.50	0.44
4:A:2122:LEU:HG	4:A:2160:TYR:CE1	2.52	0.44
4:A:2222:HIS:ND1	4:A:2222:HIS:O	2.50	0.44
4:A:2890:ILE:HD11	4:A:2929:LEU:CB	2.47	0.44
4:A:3472:ILE:CD1	4:A:3483:MET:HE3	2.47	0.44
5:B:357:LYS:C	5:B:359:HIS:H	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:346:CYS:SG	6:C:347:LYS:N	2.90	0.44
9:D:31:DA:H8	10:E:25:DT:C5	2.35	0.44
4:S:188:GLU:HA	4:S:191:ASN:HB2	1.99	0.44
4:S:902:LYS:H	4:S:2822:LYS:HG3	1.82	0.44
4:S:1360:LYS:O	4:S:1360:LYS:NZ	2.37	0.44
4:S:1437:TYR:HA	4:S:1504:ASP:HB3	1.99	0.44
4:S:1481:THR:HA	4:S:1527:ARG:NH2	2.33	0.44
4:S:1755:SER:HB3	4:S:1758:LEU:HD13	1.99	0.44
4:S:1945:TYR:CE2	4:S:2097:LEU:HG	2.52	0.44
4:S:2569:SER:OG	4:S:2571:ASP:OD1	2.34	0.44
4:S:3087:SER:HA	4:S:3099:ALA:HB1	1.98	0.44
4:S:3738:ILE:HD12	4:S:3740:ILE:HD11	1.99	0.44
6:U:283:THR:O	6:U:285:LYS:HG2	2.17	0.44
6:U:405:VAL:HG22	6:U:426:PHE:CE1	2.52	0.44
6:U:595:ALA:O	6:U:599:ARG:HG3	2.17	0.44
8:W:21:DA:N7	8:W:22:DG:N1	2.65	0.44
1:L:175:ASP:O	1:L:179:ARG:HG3	2.18	0.44
1:N:59:MET:HE3	1:N:69:GLU:OE1	2.18	0.44
1:N:161:ARG:HA	2:P:899:ASP:OD1	2.17	0.44
3:Q:215:GLN:O	3:Q:219:MET:HG2	2.18	0.44
4:F:364:ARG:NH1	4:F:415:GLN:HB3	2.32	0.44
4:F:1184:ARG:NH2	4:F:1265:GLU:OE1	2.31	0.44
4:F:1203:SER:N	4:F:1204:PRO:HD3	2.33	0.44
4:F:1282:LEU:HB2	4:F:1359:LEU:HD13	1.98	0.44
4:F:1866:GLN:O	4:F:1870:LYS:HG3	2.18	0.44
4:F:1923:PHE:O	4:F:1925:GLU:N	2.51	0.44
4:F:1947:CYS:O	4:F:1951:VAL:HG13	2.17	0.44
4:F:2138:VAL:HG13	4:F:2143:ARG:HG3	2.00	0.44
4:F:2341:LEU:HA	4:F:2344:LEU:HG	2.00	0.44
4:F:2546:TYR:HB3	4:F:2842:ARG:NH1	2.31	0.44
4:F:2841:ASN:ND2	4:F:2871:LEU:HD11	2.28	0.44
4:F:3100:LYS:HA	4:F:3103:ILE:HG22	1.99	0.44
4:F:3266:SER:N	4:F:3272:TRP:HD1	2.14	0.44
4:F:3372:LYS:HD3	4:F:3372:LYS:HA	1.77	0.44
4:F:3658:ASP:OD1	4:F:3658:ASP:N	2.50	0.44
5:G:46:LYS:O	5:G:50:GLU:N	2.42	0.44
5:G:276:LEU:HB2	6:H:431:ARG:C	2.38	0.44
5:G:319:SER:O	6:H:277:THR:N	2.50	0.44
6:H:307:LYS:NZ	6:H:312:GLN:HE21	2.14	0.44
4:A:879:MET:O	4:A:882:SER:HB3	2.17	0.44
4:A:1362:ASP:OD1	4:A:1362:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1577:LEU:HD12	4:A:1578:ALA:N	2.32	0.44
4:A:1709:GLU:HG3	4:A:1712:ARG:HH21	1.83	0.44
4:A:2338:GLU:CD	4:A:2340:SER:H	2.20	0.44
4:A:2575:PRO:HA	4:A:2785:ILE:O	2.18	0.44
4:A:3015:SER:HB2	4:A:3044:MET:SD	2.58	0.44
4:A:3243:ILE:HG23	4:A:3255:ALA:HB1	1.98	0.44
4:A:3455:LYS:O	4:A:3491:PRO:HB3	2.17	0.44
5:B:126:GLN:HA	5:B:129:LYS:HG2	1.97	0.44
5:B:219:ASP:OD1	5:B:219:ASP:N	2.48	0.44
5:B:290:ARG:HD2	6:C:309:ASP:HA	1.98	0.44
6:C:260:ARG:HB3	6:C:368:ARG:HH11	1.81	0.44
6:C:342:VAL:HG12	6:C:393:VAL:HG22	2.00	0.44
4:S:125:ILE:HG23	4:S:128:LEU:HD23	1.98	0.44
4:S:379:LYS:O	4:S:379:LYS:NZ	2.31	0.44
4:S:977:ASP:HB3	4:S:980:THR:OG1	2.16	0.44
4:S:1185:HIS:HA	4:S:1188:ILE:HG12	1.99	0.44
4:S:1471:GLN:HG3	4:S:1477:HIS:N	2.32	0.44
4:S:2158:ARG:CZ	4:S:2196:TRP:HB3	2.47	0.44
4:S:2331:MET:SD	4:S:2335:ASN:HB3	2.56	0.44
4:S:2418:LYS:HA	4:S:2418:LYS:HD3	1.74	0.44
4:S:2869:LEU:HD22	4:S:2896:ALA:HB2	1.99	0.44
5:T:366:LEU:HB2	5:T:434:LEU:HD12	2.00	0.44
6:U:41:PHE:O	6:U:44:ARG:HB3	2.17	0.44
6:U:616:LEU:HB2	6:U:638:CYS:SG	2.57	0.44
7:V:34:DC:H2''	7:V:35:DT:O5'	2.17	0.44
1:K:54:GLN:HA	3:R:64:ARG:HD2	1.99	0.44
2:M:721:VAL:HG13	2:M:743:MET:HG2	1.97	0.44
2:M:845:LEU:HD11	2:M:864:ILE:HD13	1.98	0.44
1:N:40:HIS:O	1:O:40:HIS:ND1	2.51	0.44
1:N:150:ARG:HH12	2:P:835:GLY:HA3	1.81	0.44
2:P:708:ARG:HG3	5:G:493:LEU:HD21	1.98	0.44
2:P:792:MET:SD	2:P:796:ILE:HD11	2.57	0.44
4:F:341:PHE:N	4:F:341:PHE:CD1	2.83	0.44
4:F:429:GLU:O	4:F:433:PRO:HD3	2.17	0.44
4:F:571:SER:O	4:F:574:LYS:HG2	2.18	0.44
4:F:1104:LEU:HG	4:F:1168:LEU:HD13	1.99	0.44
4:F:1282:LEU:HB3	4:F:1359:LEU:HD22	2.00	0.44
4:F:2401:VAL:HA	4:F:2404:ARG:HG2	1.99	0.44
4:F:3011:LEU:HD22	4:F:3044:MET:HA	1.99	0.44
4:F:3179:TRP:HB3	4:F:3242:MET:CE	2.47	0.44
5:G:203:MET:CE	5:G:239:LEU:HG	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:419:GLU:N	5:G:426:GLN:HE22	2.16	0.44
6:H:56:LEU:N	6:H:81:ARG:HB2	2.33	0.44
6:H:324:SER:O	6:H:328:GLU:HG2	2.18	0.44
4:A:374:LYS:HA	4:A:378:ALA:HB2	1.97	0.44
4:A:734:LEU:HB3	4:A:772:ALA:HB2	1.99	0.44
4:A:1725:GLN:NE2	4:A:1769:GLU:OE1	2.50	0.44
4:A:3237:SER:HA	4:A:3240:MET:CE	2.48	0.44
5:B:34:GLY:C	5:B:35:ARG:HD3	2.37	0.44
5:B:473:TYR:CE1	6:C:424:LEU:HD13	2.51	0.44
9:D:32:DA:C5	10:E:25:DT:H2''	2.52	0.44
4:S:465:PHE:CE1	4:S:479:ILE:HG22	2.52	0.44
4:S:990:GLN:HG2	4:S:2780:LEU:C	2.38	0.44
4:S:1169:VAL:HG21	4:S:1194:PHE:HB3	1.98	0.44
4:S:2216:LEU:O	4:S:2220:MET:HG3	2.17	0.44
4:S:2269:ASP:OD1	4:S:2270:ASN:N	2.50	0.44
4:S:2374:LEU:HD12	4:S:2377:ARG:HD2	1.99	0.44
4:S:2536:LEU:HB2	4:S:2823:PHE:CE2	2.53	0.44
4:S:3737:ARG:HA	4:S:3750:PHE:O	2.17	0.44
4:S:3778:ASP:O	4:S:3782:SER:OG	2.27	0.44
4:S:3866:GLU:O	4:S:3870:SER:CB	2.65	0.44
4:S:3915:HIS:CE1	4:S:3961:PHE:HA	2.52	0.44
4:S:3995:PRO:O	4:S:3999:THR:HG23	2.17	0.44
4:S:4098:LEU:HD12	4:S:4102:THR:HB	1.98	0.44
5:T:256:LEU:HG	7:V:32:DA:C8	2.53	0.44
5:T:399:ARG:CB	5:T:408:PRO:HB2	2.48	0.44
6:U:58:LEU:O	6:U:78:THR:OG1	2.31	0.44
6:U:652:GLU:HB3	6:U:690:GLU:HA	1.99	0.44
3:Y:44:VAL:HB	3:Y:131:VAL:HG22	1.99	0.44
1:K:97:PHE:O	1:K:109:GLY:N	2.47	0.44
2:M:660:GLU:CG	2:M:686:GLY:HA3	2.48	0.44
2:P:818:VAL:HG21	2:P:893:TRP:CZ3	2.52	0.44
2:P:856:LEU:HD12	2:P:878:PHE:CD2	2.47	0.44
4:F:631:ARG:NH2	4:F:634:LEU:HB2	2.32	0.44
4:F:993:HIS:O	4:F:996:THR:HG22	2.17	0.44
4:F:994:TRP:NE1	4:F:2581:LEU:HD11	2.32	0.44
4:F:1437:TYR:CD2	4:F:1490:GLY:HA3	2.52	0.44
4:F:2534:ASN:HB3	4:F:2537:ASP:CG	2.37	0.44
4:F:3887:PHE:CD1	4:F:3897:PHE:HE1	2.35	0.44
5:G:93:ASP:OD1	5:G:101:ASN:N	2.51	0.44
5:G:240:GLU:O	5:G:244:ARG:HB2	2.18	0.44
5:G:325:ARG:HH11	6:H:498:ALA:HB1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:470:ARG:O	5:G:517:ARG:NH1	2.50	0.44
6:H:362:LEU:CB	6:H:421:TYR:HB3	2.48	0.44
6:H:462:SER:O	6:H:465:LYS:NZ	2.32	0.44
4:A:243:GLN:O	4:A:282:PHE:HB3	2.17	0.44
4:A:898:PHE:HA	4:A:2569:SER:OG	2.18	0.44
4:A:1650:ALA:HB1	4:A:1695:LEU:HD13	1.99	0.44
4:A:1678:LEU:HA	4:A:1684:LEU:CB	2.47	0.44
4:A:1771:GLN:HA	4:A:1775:GLU:HG3	1.99	0.44
4:A:1780:SER:HB2	4:A:1784:ARG:NH1	2.33	0.44
4:A:3527:GLN:HA	4:A:3530:VAL:CG1	2.48	0.44
4:A:3758:LEU:HG	4:A:3761:ASP:OD2	2.17	0.44
4:A:3767:LEU:O	4:A:3771:MET:HB3	2.18	0.44
4:A:3878:VAL:HG11	4:A:4128:MET:HA	1.99	0.44
6:C:267:ILE:HG21	6:C:481:LYS:NZ	2.32	0.44
6:C:529:PRO:O	6:C:533:ILE:HG12	2.18	0.44
4:S:112:THR:HG22	4:S:152:LEU:HG	1.99	0.44
4:S:114:VAL:HG22	4:S:119:ARG:NH2	2.33	0.44
4:S:407:VAL:HB	4:S:449:TYR:HE1	1.83	0.44
4:S:479:ILE:HD11	4:S:567:GLU:HB3	1.99	0.44
4:S:738:HIS:O	4:S:742:GLU:N	2.51	0.44
4:S:1107:TYR:CE2	4:S:1130:ALA:HB3	2.52	0.44
4:S:1369:MET:HG2	4:S:1414:ILE:HG23	1.99	0.44
4:S:1756:PRO:HB3	4:S:1797:LEU:HA	2.00	0.44
4:S:1779:GLN:O	4:S:1783:ARG:HG2	2.17	0.44
4:S:1786:ALA:HB3	4:S:1830:HIS:HB3	1.99	0.44
4:S:3040:TYR:O	4:S:3044:MET:HG2	2.18	0.44
4:S:3048:LYS:HG3	4:S:3058:ASP:OD2	2.18	0.44
4:S:3499:ILE:HD12	4:S:3502:MET:HG3	1.99	0.44
5:T:204:HIS:HA	5:T:213:ILE:HB	2.00	0.44
5:T:247:ARG:NH2	5:T:501:GLU:O	2.49	0.44
5:T:469:LEU:HD23	6:U:345:PHE:HB2	2.00	0.44
5:T:479:GLU:HA	6:U:426:PHE:HB3	1.98	0.44
5:T:482:VAL:HG11	8:W:33:DA:H62	1.83	0.44
1:L:22:VAL:HG21	1:L:74:LEU:HD13	2.00	0.44
1:N:43:TRP:CZ2	1:N:90:LYS:HB3	2.53	0.44
2:P:682:ILE:HG22	2:P:687:GLY:HA3	1.99	0.44
3:Q:51:THR:HB	3:Q:73:LEU:HD22	1.99	0.44
3:Q:80:LEU:HD22	3:Q:84:LEU:HD12	2.00	0.44
3:Q:176:ARG:HE	3:Q:179:LEU:HG	1.82	0.44
4:F:270:ALA:HA	4:F:273:ARG:HE	1.83	0.44
4:F:364:ARG:HH22	4:F:419:SER:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:412:SER:HA	4:F:415:GLN:OE1	2.17	0.44
4:F:670:LEU:HA	4:F:673:THR:HB	2.00	0.44
4:F:1375:THR:CA	4:F:1381:SER:HB2	2.47	0.44
4:F:1413:ASP:N	4:F:1413:ASP:OD1	2.50	0.44
4:F:1512:SER:HA	4:F:1515:LEU:HD12	1.99	0.44
4:F:1555:HIS:HB3	4:F:1559:PHE:CE2	2.51	0.44
4:F:1752:LEU:HA	4:F:1788:ARG:HH12	1.82	0.44
4:F:1782:PHE:HB3	4:F:1826:THR:OG1	2.18	0.44
4:F:2473:MET:O	4:F:2477:LEU:HD23	2.16	0.44
4:F:2732:PHE:CG	4:F:2732:PHE:O	2.71	0.44
4:F:2996:LEU:HD21	4:F:3040:TYR:CD1	2.53	0.44
4:F:3459:ASN:OD1	4:F:3460:GLU:N	2.51	0.44
4:F:3994:ASP:OD1	4:F:3995:PRO:HD3	2.17	0.44
5:G:153:LEU:HA	5:G:156:ASP:OD2	2.18	0.44
5:G:350:PHE:HB2	6:H:462:SER:HA	1.99	0.44
5:G:418:GLU:HA	5:G:430:PRO:HD3	1.99	0.44
6:H:269:GLN:HB3	6:H:271:ARG:HD2	1.99	0.44
6:H:530:LEU:HD23	6:H:534:LYS:HD2	1.99	0.44
6:H:596:GLU:N	6:H:599:ARG:HH21	2.15	0.44
8:J:25:DT:H5 ^{''}	8:J:26:DT:C5	2.53	0.44
4:A:176:GLU:CB	4:A:223:CYS:HA	2.47	0.44
4:A:306:VAL:HA	4:A:309:LYS:HG3	2.00	0.44
4:A:938:VAL:O	4:A:942:LEU:HD23	2.18	0.44
4:A:1473:THR:OG1	4:A:1475:LEU:O	2.23	0.44
4:A:1717:LEU:HD22	4:A:1746:PHE:CD2	2.53	0.44
4:A:2486:ASP:OD1	4:A:2489:SER:OG	2.31	0.44
4:A:2860:ASP:OD1	4:A:2861:ILE:N	2.50	0.44
6:C:391:ALA:HB3	6:C:408:ALA:HB3	1.99	0.44
10:E:23:DT:H4 [']	10:E:24:DT:OP1	2.18	0.44
4:S:730:LEU:O	4:S:734:LEU:HG	2.17	0.44
4:S:917:LEU:HB3	4:S:930:ALA:HB1	1.99	0.44
4:S:1347:THR:HA	4:S:1351:THR:HG23	1.99	0.44
4:S:1415:LEU:O	4:S:1419:LEU:HB2	2.18	0.44
4:S:1725:GLN:HG3	4:S:1727:ARG:HB2	2.00	0.44
4:S:2183:HIS:CG	4:S:2184:TYR:N	2.86	0.44
4:S:2186:VAL:HA	4:S:2189:ILE:HG12	1.99	0.44
4:S:2195:SER:N	4:S:2724:ASP:OD2	2.51	0.44
4:S:2273:GLY:HA2	4:S:2276:LEU:HD12	1.99	0.44
4:S:2524:PHE:HA	4:S:2530:ARG:HH21	1.81	0.44
4:S:2541:ALA:O	4:S:2545:LEU:HG	2.18	0.44
4:S:2735:ASP:OD1	4:S:2735:ASP:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3193:ILE:HG22	4:S:3193:ILE:O	2.17	0.44
4:S:3243:ILE:CG2	4:S:3282:ARG:HE	2.31	0.44
4:S:3572:ILE:HA	4:S:3575:LEU:HD12	2.00	0.44
4:S:4090:ARG:NH1	4:S:4091:ALA:HB2	2.33	0.44
5:T:50:GLU:H	5:T:59:PRO:HD2	1.82	0.44
5:T:72:ILE:HG22	5:T:247:ARG:HD3	2.00	0.44
5:T:178:ASN:ND2	5:T:182:LYS:HD2	2.33	0.44
5:T:492:ALA:HA	5:T:497:LEU:HB3	1.99	0.44
6:U:271:ARG:HH21	8:W:30:DT:H3	1.64	0.44
6:U:594:PRO:HG2	6:U:634:LYS:HZ2	1.83	0.44
7:V:44:DG:N7	7:V:45:DG:H8	2.14	0.44
3:Y:24:LEU:N	3:Y:39:SER:O	2.39	0.44
1:K:165:CYS:SG	1:L:162:PHE:HE1	2.41	0.44
1:N:190:LYS:HE2	1:N:194:LEU:HD11	1.99	0.44
2:P:668:SER:O	2:P:703:GLY:N	2.30	0.44
3:Q:37:LEU:HD13	3:Q:134:HIS:HB2	1.99	0.44
3:Q:167:TYR:CE2	3:R:173:THR:HA	2.53	0.44
3:R:103:ALA:HA	3:R:123:CYS:O	2.18	0.44
4:F:332:GLU:O	4:F:335:LYS:N	2.50	0.44
4:F:527:TYR:HB2	4:F:629:PHE:HZ	1.81	0.44
4:F:828:LYS:C	4:F:832:LYS:HZ1	2.21	0.44
4:F:1052:SER:HB3	4:F:1055:ASN:HB3	1.98	0.44
4:F:1066:LEU:HB3	4:F:1078:ALA:HB2	1.99	0.44
4:F:1725:GLN:OE1	4:F:1726:SER:N	2.50	0.44
4:F:1865:THR:HB	4:F:1869:LYS:NZ	2.32	0.44
4:F:3132:VAL:HA	4:F:3135:LEU:HG	1.99	0.44
4:F:3591:ASP:O	4:F:3595:GLU:HG2	2.17	0.44
4:F:3736:LYS:O	4:F:3752:VAL:N	2.51	0.44
4:F:4055:ASN:HB3	4:F:4058:VAL:HB	1.99	0.44
6:H:663:GLN:HG2	6:H:686:ILE:HD12	1.99	0.44
4:A:529:ASP:OD1	4:A:529:ASP:N	2.49	0.44
4:A:764:PRO:O	4:A:768:VAL:HG23	2.17	0.44
4:A:2257:PHE:HD1	4:A:2299:TYR:HA	1.83	0.44
4:A:2443:MET:HE3	4:A:2476:ILE:HG12	2.00	0.44
4:A:2558:ALA:O	4:A:2562:LEU:HG	2.18	0.44
4:A:3031:TRP:O	4:A:3034:PRO:HD2	2.18	0.44
4:A:3811:THR:O	4:A:3815:LEU:N	2.39	0.44
4:A:3820:MET:HB2	4:A:3824:GLU:HB2	1.99	0.44
5:B:366:LEU:HD22	6:C:431:ARG:HE	1.82	0.44
6:C:30:PRO:HB2	6:C:137:ASP:HB2	1.99	0.44
6:C:543:LYS:HD3	6:C:543:LYS:HA	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:718:MET:HE1	4:S:730:LEU:N	2.32	0.44
4:S:1125:GLN:O	4:S:1126:GLN:HB2	2.17	0.44
4:S:1693:VAL:HG11	4:S:1746:PHE:HE1	1.82	0.44
4:S:1963:GLN:HG3	4:S:2123:PRO:O	2.18	0.44
4:S:3011:LEU:O	4:S:3047:SER:HB2	2.18	0.44
4:S:3617:LEU:HD23	4:S:3633:ILE:HG22	1.99	0.44
4:S:3689:ASP:OD1	4:S:3689:ASP:N	2.49	0.44
4:S:3765:GLU:O	4:S:3768:PHE:HB2	2.18	0.44
4:S:3944:HIS:HA	4:S:4015:ASN:HA	2.00	0.44
5:T:82:LEU:HB3	5:T:108:LEU:HB3	2.00	0.44
5:T:112:GLY:H	5:T:115:ARG:HB2	1.81	0.44
5:T:260:LYS:HG3	5:T:373:SER:HB2	2.00	0.44
1:K:180:PHE:HB2	2:M:774:LEU:HD21	2.00	0.44
1:K:184:LEU:HD21	1:L:183:VAL:HG13	1.99	0.44
1:L:107:ARG:NH2	1:L:109:GLY:O	2.43	0.44
1:L:156:ASN:HA	1:L:159:GLN:HG2	1.99	0.44
2:M:865:ILE:HG22	2:M:866:GLY:N	2.32	0.44
1:N:97:PHE:O	1:N:109:GLY:N	2.42	0.44
1:O:26:LYS:NZ	1:O:32:PHE:HA	2.33	0.44
4:F:357:LYS:HE2	4:F:408:TYR:CZ	2.52	0.44
4:F:1149:LYS:O	4:F:1163:LEU:N	2.51	0.44
4:F:1560:TYR:O	4:F:1567:ILE:HD12	2.18	0.44
4:F:1956:PHE:CZ	4:F:1962:TYR:HB2	2.53	0.44
4:F:2481:HIS:HA	4:F:2499:PHE:CE1	2.52	0.44
4:F:3079:GLU:HG2	4:F:3080:LEU:N	2.33	0.44
5:G:40:PHE:HB2	5:G:85:VAL:HG12	2.00	0.44
5:G:299:LYS:HB3	5:G:301:ARG:NH1	2.33	0.44
5:G:418:GLU:OE2	6:H:437:SER:HB3	2.17	0.44
5:G:425:ILE:HG22	5:G:427:VAL:HG13	1.99	0.44
5:G:490:LEU:HD22	6:H:323:PHE:HE2	1.83	0.44
6:H:58:LEU:O	6:H:78:THR:OG1	2.32	0.44
6:H:471:ASP:OD1	6:H:471:ASP:N	2.49	0.44
6:H:630:PRO:HA	6:H:633:MET:HG3	2.00	0.44
6:H:640:ARG:HA	6:H:640:ARG:HD3	1.81	0.44
7:I:29:DA:C8	7:I:30:DA:C2	3.06	0.44
4:A:88:PHE:O	4:A:91:ILE:HB	2.18	0.44
4:A:181:LEU:HD13	4:A:233:ASN:HD22	1.83	0.44
4:A:290:TYR:CE2	4:A:291:VAL:HG13	2.53	0.44
4:A:328:ALA:HA	4:A:372:PRO:HA	2.00	0.44
4:A:565:TYR:O	4:A:569:VAL:HG23	2.17	0.44
4:A:628:GLU:HB2	4:A:668:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:631:ARG:NH1	4:A:675:ARG:HH12	2.15	0.44
4:A:878:GLU:HG2	4:A:3934:THR:HB	1.99	0.44
4:A:896:VAL:O	4:A:902:LYS:HA	2.18	0.44
4:A:917:LEU:HD22	4:A:930:ALA:HB2	2.00	0.44
4:A:1177:GLY:HA3	4:A:1266:CYS:SG	2.58	0.44
4:A:1805:PHE:HA	4:A:1819:PHE:CD2	2.52	0.44
4:A:2394:LYS:O	4:A:2398:LEU:HG	2.17	0.44
4:A:2844:LEU:HA	4:A:2847:THR:HG22	2.00	0.44
4:A:3572:ILE:HA	4:A:3575:LEU:HD12	1.99	0.44
4:A:3921:GLY:H	4:A:3944:HIS:HB2	1.83	0.44
4:S:28:ALA:HA	4:S:77:GLU:HG3	1.99	0.44
4:S:975:ASP:N	4:S:975:ASP:OD1	2.49	0.44
4:S:1076:LEU:HA	4:S:1114:ALA:HB1	2.00	0.44
4:S:1191:PHE:CZ	4:S:1208:LEU:HD13	2.52	0.44
4:S:1297:PHE:HD2	4:S:1367:HIS:NE2	2.16	0.44
4:S:1368:LEU:HA	4:S:1371:VAL:HG22	2.00	0.44
4:S:1871:MET:SD	4:S:1939:LEU:HB3	2.58	0.44
4:S:2256:ILE:HG12	4:S:2260:PHE:CE2	2.53	0.44
4:S:2319:ALA:HA	4:S:2322:VAL:HG22	1.99	0.44
4:S:2328:ARG:HH21	4:S:2370:SER:HA	1.82	0.44
4:S:2555:LEU:HD13	4:S:2806:LYS:HB2	2.00	0.44
4:S:3283:LEU:O	4:S:3287:ARG:HG3	2.18	0.44
4:S:3928:PHE:CZ	4:S:3962:ARG:HB3	2.53	0.44
5:T:340:PHE:HB2	5:T:408:PRO:CD	2.42	0.44
6:U:165:LEU:HD23	6:U:167:PHE:HB2	1.99	0.44
1:O:8:ILE:HG22	1:O:86:PHE:CE2	2.53	0.44
3:Q:167:TYR:HE1	3:R:174:LEU:HD23	1.83	0.44
3:Q:178:ARG:CZ	3:Q:179:LEU:HD23	2.48	0.44
4:F:1477:HIS:O	4:F:1481:THR:HG22	2.18	0.44
4:F:1511:ALA:O	4:F:1514:LEU:HG	2.18	0.44
4:F:1657:SER:O	4:F:1660:SER:OG	2.26	0.44
4:F:1864:ASP:OD1	4:F:1864:ASP:N	2.50	0.44
4:F:2194:LEU:HD22	4:F:2244:CYS:SG	2.58	0.44
4:F:2295:GLN:OE1	4:F:2295:GLN:N	2.51	0.44
4:F:2371:PHE:CD1	4:F:2373:PRO:HD2	2.53	0.44
4:F:2429:ASP:OD1	4:F:2464:HIS:NE2	2.40	0.44
4:F:3959:MET:HB3	4:F:4124:TRP:HE1	1.82	0.44
4:F:3998:LEU:O	4:F:4001:THR:HG22	2.18	0.44
5:G:47:ALA:HB1	5:G:171:ASN:N	2.31	0.44
5:G:101:ASN:ND2	5:G:142:SER:OG	2.42	0.44
5:G:317:LYS:HZ1	5:G:330:GLU:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:60:GLY:H	6:H:76:ASN:CB	2.31	0.44
6:H:413:LYS:NZ	6:H:415:ASN:HB2	2.33	0.44
6:H:438:LEU:HD23	6:H:439:LYS:HZ2	1.83	0.44
6:H:450:GLN:O	6:H:454:VAL:HG12	2.18	0.44
6:H:453:ALA:HA	6:H:532:LYS:NZ	2.27	0.44
8:J:27:DT:H1'	8:J:28:DA:C4	2.52	0.44
4:A:528:VAL:HG13	4:A:629:PHE:CE2	2.53	0.44
4:A:620:PHE:HE1	4:A:663:ILE:HG23	1.83	0.44
4:A:683:PHE:HB2	4:A:737:PRO:HG2	2.00	0.44
4:A:1342:MET:CG	4:A:1402:LEU:HD11	2.48	0.44
4:A:1482:GLU:OE2	4:A:1486:LEU:HD22	2.18	0.44
4:A:1630:ASP:HA	4:A:1633:TRP:CD2	2.52	0.44
4:A:1783:ARG:HG2	4:A:1830:HIS:CE1	2.53	0.44
4:A:1978:PHE:CZ	4:A:2139:PRO:HG2	2.53	0.44
4:A:2865:HIS:ND1	4:A:2868:LEU:HD12	2.33	0.44
4:A:3040:TYR:O	4:A:3044:MET:HG2	2.18	0.44
4:A:3066:ASP:C	4:A:3070:HIS:HD1	2.17	0.44
4:A:3409:VAL:HG22	4:A:3413:TYR:CE2	2.53	0.44
4:A:3731:SER:OG	4:A:3735:PRO:HD3	2.18	0.44
4:A:3918:LEU:HD12	4:A:3920:ILE:HD11	1.99	0.44
5:B:85:VAL:HG12	5:B:105:LEU:HD13	1.99	0.44
5:B:95:ASN:ND2	5:B:99:PHE:H	2.10	0.44
6:C:59:PHE:HE2	6:C:140:SER:HB3	1.83	0.44
4:S:386:VAL:HG13	4:S:431:TYR:CE2	2.51	0.44
4:S:738:HIS:HB2	4:S:780:ILE:HB	1.99	0.44
4:S:1134:LEU:O	4:S:1138:ILE:HG13	2.17	0.44
4:S:1489:LYS:HD2	4:S:1489:LYS:HA	1.81	0.44
4:S:1576:ASP:N	4:S:1576:ASP:OD1	2.51	0.44
4:S:2255:LEU:O	4:S:2258:GLU:HG2	2.18	0.44
4:S:2272:VAL:O	4:S:2276:LEU:HG	2.17	0.44
4:S:3900:LEU:HD12	4:S:3900:LEU:HA	1.79	0.44
5:T:82:LEU:HB2	5:T:108:LEU:HD22	1.99	0.44
5:T:261:LEU:HA	5:T:345:LEU:CB	2.48	0.44
5:T:295:PRO:HB2	6:U:298:ASN:HB2	2.00	0.44
5:T:418:GLU:OE2	6:U:437:SER:HB3	2.18	0.44
2:M:824:ALA:HA	2:M:871:ARG:NH2	2.33	0.43
2:M:838:LEU:HD23	2:M:838:LEU:HA	1.71	0.43
1:N:179:ARG:HB3	2:P:805:TRP:CZ2	2.53	0.43
1:O:140:LYS:O	1:O:143:HIS:HB2	2.18	0.43
1:O:192:ARG:NH2	1:O:196:ASN:OD1	2.47	0.43
3:Q:7:GLY:HA3	3:Q:28:PHE:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:210:PHE:O	3:R:215:GLN:N	2.49	0.43
4:F:217:LEU:HD23	4:F:217:LEU:H	1.82	0.43
4:F:891:ARG:HH11	4:F:957:PRO:HA	1.83	0.43
4:F:935:HIS:HD2	4:F:987:LEU:HD22	1.81	0.43
4:F:1065:SER:O	4:F:1069:HIS:N	2.40	0.43
4:F:1771:GLN:NE2	4:F:1776:GLU:OE1	2.51	0.43
4:F:2254:ARG:NE	4:F:2294:ILE:HG12	2.32	0.43
4:F:2511:ILE:HD11	4:F:2550:ILE:HG23	2.00	0.43
4:F:2549:LYS:HA	4:F:2848:PHE:CZ	2.53	0.43
4:F:2850:PHE:HB3	4:F:2883:SER:HB3	2.00	0.43
4:F:2974:GLU:O	4:F:2978:LYS:HB2	2.18	0.43
4:F:3176:MET:HE1	4:F:3245:SER:HB3	2.00	0.43
4:F:3311:ASN:HB2	4:F:3315:TYR:H	1.82	0.43
4:F:3327:ASN:ND2	4:F:3387:GLU:HB3	2.33	0.43
4:F:3643:HIS:CG	4:F:3663:THR:HG21	2.53	0.43
4:F:3826:ALA:O	4:F:3830:SER:CB	2.65	0.43
4:F:3912:CYS:HB3	4:F:3961:PHE:CG	2.53	0.43
5:G:289:TYR:HE1	5:G:291:GLU:HB3	1.81	0.43
5:G:303:PHE:HB3	6:H:290:GLN:CB	2.47	0.43
6:H:109:ASP:HA	6:H:112:ILE:HB	1.99	0.43
6:H:370:ASP:HB3	6:H:373:ALA:HB3	1.99	0.43
4:A:71:LYS:HE2	4:A:78:PHE:CE2	2.53	0.43
4:A:89:LEU:HB3	4:A:133:LYS:HE2	1.98	0.43
4:A:130:LEU:O	4:A:134:LEU:HG	2.18	0.43
4:A:144:MET:SD	4:A:144:MET:N	2.86	0.43
4:A:425:ASP:OD1	4:A:425:ASP:N	2.51	0.43
4:A:791:ASP:OD1	4:A:792:ILE:HG13	2.18	0.43
4:A:962:TYR:O	4:A:965:THR:HG22	2.17	0.43
4:A:1476:HIS:ND1	4:A:1521:PHE:HB3	2.33	0.43
4:A:2190:VAL:HG21	4:A:2241:LEU:HD21	2.00	0.43
4:A:3027:LEU:HA	4:A:3031:TRP:CD2	2.53	0.43
4:A:3280:TYR:CE1	4:A:3283:LEU:HD23	2.52	0.43
4:A:3574:ALA:HA	4:A:3624:GLY:O	2.17	0.43
4:A:3784:ARG:HB2	4:A:3986:HIS:CB	2.48	0.43
4:A:3883:LEU:HD23	4:A:3970:LEU:HD22	2.00	0.43
5:B:33:SER:HA	5:B:80:ARG:HH22	1.82	0.43
4:S:30:ALA:O	4:S:34:LEU:HG	2.18	0.43
4:S:83:GLU:HG3	4:S:125:ILE:HG22	1.99	0.43
4:S:169:THR:HB	4:S:219:VAL:HG11	1.98	0.43
4:S:411:PRO:HD2	4:S:453:MET:HE2	2.00	0.43
4:S:430:VAL:HG13	4:S:431:TYR:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1149:LYS:HB2	4:S:1151:ARG:NH1	2.33	0.43
4:S:1166:LEU:HB2	4:S:1199:PRO:HG2	1.99	0.43
4:S:1329:ARG:HA	4:S:1332:TYR:HB3	2.00	0.43
4:S:2331:MET:O	4:S:2334:LYS:NZ	2.34	0.43
4:S:2851:PHE:O	4:S:2855:VAL:HG22	2.17	0.43
4:S:3236:PHE:O	4:S:3240:MET:HG2	2.17	0.43
4:S:3300:VAL:HG21	4:S:3359:ILE:HG21	1.99	0.43
4:S:3385:LEU:HB3	4:S:3416:LEU:HD12	2.00	0.43
4:S:3531:TYR:HD2	4:S:3794:VAL:HG11	1.82	0.43
4:S:3887:PHE:HZ	4:S:3970:LEU:HD12	1.83	0.43
4:S:3904:PHE:HE1	4:S:3930:VAL:HA	1.82	0.43
4:S:3949:ALA:N	4:S:4067:GLY:HA3	2.33	0.43
5:T:356:LEU:HD22	5:T:412:ALA:HB3	2.01	0.43
6:U:53:GLU:HB3	6:U:83:LEU:HD12	2.00	0.43
6:U:593:ASN:HA	6:U:597:ASN:HB2	2.00	0.43
3:X:18:LEU:HG	3:X:20:GLU:H	1.83	0.43
3:Y:14:ALA:H	3:Y:26:LYS:HB3	1.82	0.43
2:M:761:TYR:CD1	2:M:781:ILE:HG12	2.53	0.43
2:M:876:LYS:HE3	2:M:879:ARG:NH1	2.33	0.43
2:P:722:LYS:HE2	2:P:742:PHE:C	2.38	0.43
2:P:797:ALA:HB1	2:P:815:ARG:HH21	1.83	0.43
2:P:820:LEU:HD11	2:P:841:LYS:CB	2.48	0.43
2:P:878:PHE:HA	2:P:881:THR:OG1	2.18	0.43
3:R:8:LEU:HA	3:R:8:LEU:HD12	1.76	0.43
3:R:23:LEU:HD11	3:R:99:CYS:HB3	1.99	0.43
3:R:53:VAL:O	3:R:56:GLN:HG2	2.18	0.43
3:R:138:PRO:HB2	3:R:218:TYR:CZ	2.52	0.43
4:F:356:ASN:OD1	4:F:357:LYS:N	2.51	0.43
4:F:478:CYS:O	4:F:482:VAL:HG22	2.18	0.43
4:F:1643:MET:HG2	4:F:1688:LEU:HD22	2.00	0.43
4:F:2253:TYR:HE2	4:F:2289:ASP:HB3	1.82	0.43
4:F:2410:GLU:OE2	4:F:2413:PHE:N	2.31	0.43
4:F:2514:ASN:HB3	4:F:2517:LEU:HB2	2.00	0.43
4:F:2534:ASN:OD1	4:F:2535:THR:N	2.51	0.43
4:F:2575:PRO:HA	4:F:2786:LYS:HA	2.00	0.43
4:F:3120:LEU:HD22	4:F:3896:ALA:HB2	2.00	0.43
4:F:3320:ILE:HD12	4:F:3392:ALA:HA	2.00	0.43
4:F:3503:VAL:HG13	4:F:3536:SER:HB3	2.01	0.43
5:G:112:GLY:HA3	6:H:318:SER:OG	2.18	0.43
5:G:278:GLN:N	5:G:278:GLN:OE1	2.51	0.43
5:G:483:LEU:HB3	5:G:487:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:512:GLU:O	5:G:516:LYS:N	2.51	0.43
6:H:239:LYS:NZ	6:H:484:ASN:H	2.16	0.43
6:H:457:LEU:HA	6:H:461:MET:HE2	2.00	0.43
6:H:496:HIS:CG	6:H:505:LEU:HD13	2.53	0.43
7:I:42:DA:H8	7:I:42:DA:H5''	1.83	0.43
4:A:865:GLN:HB3	4:A:3169:PRO:HA	2.00	0.43
4:A:1037:LEU:O	4:A:1041:ILE:HG12	2.18	0.43
4:A:1181:THR:OG1	4:A:1182:GLU:N	2.51	0.43
4:A:1487:VAL:HG23	4:A:1488:TYR:CD1	2.53	0.43
4:A:1690:GLY:HA2	4:A:1693:VAL:HG12	2.00	0.43
4:A:1817:GLN:NE2	4:A:1869:LYS:HA	2.34	0.43
4:A:2919:ASP:OD1	4:A:2920:VAL:N	2.51	0.43
4:A:3339:ASN:HD21	4:A:3422:GLN:CD	2.22	0.43
4:A:4064:LEU:HD22	4:A:4074:PHE:CE1	2.45	0.43
6:C:107:PHE:CZ	6:C:208:VAL:HB	2.51	0.43
4:S:53:LEU:HD22	4:S:96:MET:SD	2.58	0.43
4:S:74:ASN:OD1	4:S:118:ASP:HB3	2.17	0.43
4:S:310:LYS:HB3	4:S:357:LYS:NZ	2.33	0.43
4:S:345:PHE:CE1	4:S:366:TYR:HB3	2.48	0.43
4:S:756:PHE:HB2	4:S:795:CYS:HB2	2.01	0.43
4:S:888:ARG:HH12	4:S:964:ARG:HD2	1.83	0.43
4:S:3238:MET:O	4:S:3242:MET:HG3	2.17	0.43
4:S:3468:LEU:HA	4:S:3471:ILE:HG22	2.00	0.43
4:S:3512:VAL:HG12	4:S:3551:ASN:ND2	2.33	0.43
4:S:3556:ALA:HA	4:S:3559:LYS:HG2	2.00	0.43
4:S:3812:LEU:HD22	4:S:3925:LEU:HG	1.99	0.43
4:S:3911:ILE:HD11	4:S:3937:VAL:HB	1.99	0.43
5:T:399:ARG:HA	5:T:410:PHE:HA	2.00	0.43
5:T:439:PHE:CZ	6:U:485:PRO:HD2	2.52	0.43
6:U:21:SER:HB3	6:U:101:GLY:H	1.82	0.43
6:U:118:ILE:O	6:U:121:GLU:HB2	2.18	0.43
6:U:441:SER:HB3	6:U:444:TYR:HB2	2.00	0.43
1:L:141:ASN:O	1:L:145:GLN:HB3	2.18	0.43
2:M:895:THR:O	2:M:899:ASP:HB2	2.19	0.43
1:N:66:TYR:CZ	1:N:70:LEU:HD11	2.54	0.43
1:N:187:LYS:HD2	1:O:188:LYS:HD3	2.01	0.43
1:O:20:LEU:HD13	1:O:95:PHE:HE2	1.83	0.43
1:O:174:THR:CG2	2:P:785:ASN:HA	2.49	0.43
2:P:895:THR:O	2:P:899:ASP:HB2	2.18	0.43
3:R:46:HIS:CE1	3:R:48:GLN:HB3	2.53	0.43
3:R:50:ASP:O	3:R:54:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:177:LEU:N	4:F:223:CYS:O	2.51	0.43
4:F:374:LYS:HG2	4:F:423:TYR:CD1	2.53	0.43
4:F:616:LYS:HB3	4:F:619:ASP:HB2	2.00	0.43
4:F:649:PHE:O	4:F:652:GLU:HG2	2.18	0.43
4:F:1231:GLN:HG2	4:F:1235:ILE:HD12	2.00	0.43
4:F:1303:MET:N	4:F:1303:MET:SD	2.91	0.43
4:F:1458:LEU:HD22	4:F:1467:ILE:HG21	1.99	0.43
4:F:1476:HIS:ND1	4:F:1521:PHE:HB3	2.33	0.43
4:F:1737:ASN:HA	4:F:1740:VAL:HG22	2.01	0.43
4:F:2280:VAL:HG13	4:F:2285:LEU:HB2	1.99	0.43
4:F:2331:MET:O	4:F:2334:LYS:NZ	2.44	0.43
4:F:2342:CYS:O	4:F:2345:VAL:HG22	2.19	0.43
4:F:2381:ALA:O	4:F:2385:LEU:HG	2.19	0.43
4:F:2486:ASP:O	4:F:2491:THR:OG1	2.25	0.43
4:F:2541:ALA:O	4:F:2545:LEU:HG	2.18	0.43
4:F:2597:PHE:HE1	4:F:2768:GLN:HE22	1.66	0.43
4:F:2963:SER:OG	4:F:3251:ASN:HA	2.17	0.43
4:F:3042:PRO:HA	4:F:3045:ILE:HG12	2.00	0.43
4:F:3056:GLU:HG2	4:F:3057:ALA:N	2.33	0.43
4:F:3130:GLN:CG	4:F:3178:ILE:HG21	2.48	0.43
4:F:3878:VAL:HG11	4:F:4127:TRP:O	2.18	0.43
5:G:35:ARG:N	5:G:160:LYS:O	2.46	0.43
6:H:138:LEU:HD13	6:H:204:GLY:HA3	2.01	0.43
6:H:533:ILE:HG23	6:H:537:PHE:CE2	2.54	0.43
4:A:178:LEU:HB2	4:A:227:LEU:HD12	2.01	0.43
4:A:382:ASP:O	4:A:385:TYR:HB3	2.18	0.43
4:A:466:LEU:HA	4:A:469:ALA:HB3	2.01	0.43
4:A:1338:VAL:HG13	4:A:1342:MET:HE2	2.00	0.43
4:A:1527:ARG:NH1	4:A:1530:SER:HG	2.14	0.43
4:A:1714:LEU:HD23	4:A:1746:PHE:CE2	2.54	0.43
4:A:2890:ILE:HD11	4:A:2929:LEU:HB3	2.00	0.43
4:A:4044:ILE:HG13	4:A:4048:LYS:HZ3	1.81	0.43
5:B:168:LEU:HG	5:B:202:LEU:HD12	2.01	0.43
5:B:301:ARG:NH1	5:B:311:LEU:O	2.51	0.43
5:B:515:ASN:HA	5:B:518:LEU:HG	2.00	0.43
6:C:35:LYS:NZ	6:C:98:ILE:O	2.47	0.43
6:C:81:ARG:NH2	6:C:84:MET:HG2	2.32	0.43
4:S:38:LEU:HD21	4:S:85:ILE:N	2.34	0.43
4:S:67:VAL:HB	4:S:85:ILE:HD13	2.00	0.43
4:S:198:ARG:NH2	5:T:312:LEU:HB2	2.33	0.43
4:S:1001:PHE:CE2	4:S:1049:GLN:HA	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1229:CYS:HB2	4:S:1259:LEU:HD21	2.00	0.43
4:S:2859:GLN:CG	4:S:2876:VAL:HG13	2.48	0.43
4:S:3312:VAL:HG12	4:S:3330:LEU:HD21	2.00	0.43
4:S:3380:ARG:O	4:S:3384:HIS:ND1	2.38	0.43
4:S:3482:LEU:HB3	4:S:3514:VAL:HB	2.01	0.43
4:S:3856:MET:O	4:S:4072:PRO:HD2	2.19	0.43
4:S:3887:PHE:HE1	4:S:3905:ALA:HB2	1.84	0.43
6:U:643:ARG:HG2	6:U:685:LEU:O	2.18	0.43
3:Y:29:ILE:HA	3:Y:34:TYR:HB3	2.00	0.43
1:K:150:ARG:NE	2:M:835:GLY:O	2.50	0.43
1:L:42:ALA:HB1	1:L:122:VAL:HG23	2.00	0.43
1:O:192:ARG:HE	1:O:196:ASN:ND2	2.16	0.43
2:P:692:ASN:HB2	5:G:290:ARG:HE	1.83	0.43
2:P:706:ASN:O	2:P:710:LYS:HG3	2.17	0.43
3:Q:75:HIS:HE1	3:Q:117:PHE:CE2	2.36	0.43
3:Q:109:ARG:HE	3:Q:118:TYR:HA	1.82	0.43
3:Q:167:TYR:CE1	3:R:174:LEU:HD23	2.53	0.43
3:Q:176:ARG:HH22	3:R:163:GLU:CD	2.21	0.43
4:F:41:GLU:OE1	4:F:44:LEU:HD22	2.18	0.43
4:F:143:LEU:H	4:F:146:GLU:HB2	1.81	0.43
4:F:455:LEU:HB3	4:F:459:ARG:NH2	2.33	0.43
4:F:1560:TYR:CZ	4:F:1596:VAL:HG12	2.53	0.43
4:F:3110:PHE:HA	4:F:3113:ASN:ND2	2.33	0.43
4:F:3532:PRO:O	4:F:3535:ILE:HG22	2.19	0.43
4:F:3591:ASP:HB3	4:F:3609:MET:HE3	2.00	0.43
4:F:3676:PRO:O	4:F:3678:GLY:N	2.51	0.43
5:G:33:SER:H	5:G:254:ARG:NE	2.16	0.43
5:G:45:SER:HA	5:G:139:SER:N	2.33	0.43
5:G:121:GLN:HE22	5:G:130:ARG:HB3	1.83	0.43
5:G:336:GLU:HA	5:G:339:ARG:HB3	2.01	0.43
5:G:340:PHE:CD2	5:G:408:PRO:HD2	2.53	0.43
5:G:442:ASP:OD1	6:H:269:GLN:HG3	2.17	0.43
6:H:147:LEU:O	6:H:150:ILE:HG22	2.18	0.43
6:H:409:PHE:CD1	6:H:410:PRO:HD2	2.54	0.43
6:H:669:LYS:NZ	6:H:674:PHE:HA	2.33	0.43
6:H:674:PHE:CE2	6:H:676:GLU:HB3	2.54	0.43
4:A:99:LYS:HG3	4:A:102:PRO:CD	2.49	0.43
4:A:256:ILE:HG22	4:A:257:ARG:N	2.33	0.43
4:A:610:ALA:HB2	4:A:722:LYS:HB2	2.00	0.43
4:A:733:LEU:HD11	4:A:748:TYR:CD1	2.53	0.43
4:A:1152:ARG:O	4:A:1163:LEU:HD21	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3759:ARG:O	4:A:3763:ARG:NH1	2.52	0.43
4:A:3760:GLN:NE2	4:A:4018:GLN:HB2	2.26	0.43
4:A:3864:ARG:HG3	4:A:4115:ASN:HB2	2.00	0.43
4:A:3984:MET:SD	4:A:4104:VAL:HG13	2.58	0.43
4:A:4112:THR:HA	4:A:4117:LEU:HD11	1.99	0.43
5:B:425:ILE:H	5:B:425:ILE:HD12	1.83	0.43
6:C:64:THR:HG22	6:C:75:GLN:HA	2.01	0.43
4:S:127:ALA:O	4:S:130:LEU:HB3	2.18	0.43
4:S:200:PHE:HD1	4:S:224:LEU:HD23	1.83	0.43
4:S:762:TYR:CZ	4:S:764:PRO:HG2	2.52	0.43
4:S:775:GLU:HA	4:S:779:TYR:HD2	1.82	0.43
4:S:973:ALA:HB1	4:S:988:VAL:HG12	2.00	0.43
4:S:4074:PHE:HA	4:S:4077:TYR:CD2	2.54	0.43
4:S:4103:GLN:O	4:S:4107:LEU:HB2	2.18	0.43
5:T:58:THR:O	5:T:62:MET:HG2	2.19	0.43
5:T:143:LEU:HD11	5:T:168:LEU:HD11	1.99	0.43
6:U:38:ILE:HG13	6:U:94:ILE:CG2	2.48	0.43
7:V:21:DA:N7	8:W:35:DT:N3	2.65	0.43
7:V:31:DA:H5''	8:W:29:DG:N3	2.33	0.43
7:V:35:DT:H1'	7:V:36:DA:H2'	1.98	0.43
8:W:32:DT:H6	8:W:33:DA:N1	2.15	0.43
3:X:178:ARG:NH1	3:X:179:LEU:HD23	2.33	0.43
3:Y:8:LEU:HD13	3:Y:35:ALA:O	2.18	0.43
1:L:43:TRP:HD1	1:L:115:LYS:HB2	1.82	0.43
1:N:153:ARG:NH1	1:N:157:ASP:OD2	2.39	0.43
1:O:166:VAL:HG22	2:P:847:PHE:CD2	2.51	0.43
2:P:708:ARG:O	2:P:712:ILE:HG12	2.18	0.43
2:P:711:ASN:HB2	6:H:330:GLN:NE2	2.33	0.43
2:P:819:TYR:CD1	2:P:863:VAL:HG12	2.54	0.43
3:Q:17:GLN:HB2	3:Q:83:LEU:HD21	2.01	0.43
3:Q:47:GLU:HB2	3:Q:123:CYS:SG	2.59	0.43
3:Q:141:GLY:HA2	3:R:202:CYS:HA	1.99	0.43
3:R:151:ARG:HD3	3:R:151:ARG:HA	1.70	0.43
4:F:86:LEU:HB3	4:F:129:ASP:CB	2.48	0.43
4:F:359:LEU:O	4:F:363:ILE:HG12	2.18	0.43
4:F:364:ARG:HH12	4:F:463:LYS:HZ1	1.65	0.43
4:F:418:ALA:HB3	4:F:463:LYS:NZ	2.32	0.43
4:F:559:SER:OG	4:F:560:LEU:N	2.52	0.43
4:F:766:ALA:O	4:F:770:LEU:HG	2.18	0.43
4:F:978:GLN:HG2	4:F:2597:PHE:HA	2.00	0.43
4:F:1034:ARG:HD2	4:F:1085:ILE:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1059:LEU:O	4:F:1063:LEU:HD23	2.18	0.43
4:F:1863:PHE:HA	4:F:1866:GLN:CD	2.39	0.43
4:F:1881:TYR:CD1	4:F:1881:TYR:C	2.91	0.43
4:F:1909:ASN:HB2	4:F:1910:GLU:H	1.70	0.43
4:F:2586:PHE:HB3	4:F:2776:ARG:HD2	2.00	0.43
4:F:3411:ASP:O	4:F:3415:THR:HG23	2.18	0.43
4:F:3467:ARG:HD2	4:F:4000:ASN:ND2	2.34	0.43
4:F:3531:TYR:HA	4:F:3534:ILE:HG22	2.00	0.43
4:F:3727:THR:OG1	4:F:3737:ARG:O	2.35	0.43
4:F:3774:ILE:HG23	4:F:3786:LEU:HD13	2.01	0.43
4:F:3971:MET:SD	4:F:3974:MET:HB2	2.58	0.43
5:G:44:ALA:HB1	5:G:131:PHE:HZ	1.82	0.43
5:G:433:GLN:HG3	6:H:354:ARG:HB2	1.99	0.43
6:H:290:GLN:HE21	6:H:292:GLU:HB3	1.83	0.43
8:J:31:DT:H2''	8:J:32:DT:OP2	2.17	0.43
4:A:572:VAL:HA	4:A:575:ILE:HD12	1.99	0.43
4:A:894:PHE:O	4:A:904:VAL:HA	2.18	0.43
4:A:970:LEU:HD21	4:A:1012:ALA:HB1	1.99	0.43
4:A:1358:LEU:HD23	4:A:1360:LYS:H	1.84	0.43
4:A:1413:ASP:O	4:A:1417:THR:HG23	2.18	0.43
4:A:1576:ASP:HA	4:A:1579:VAL:HG12	2.01	0.43
4:A:1633:TRP:CD2	4:A:1645:VAL:HG21	2.53	0.43
4:A:1837:ARG:NH1	4:A:1838:GLU:HG3	2.33	0.43
4:A:2224:PHE:HA	4:A:2231:PHE:CE1	2.53	0.43
4:A:2344:LEU:HA	4:A:2347:LYS:HE2	2.00	0.43
4:A:2538:ARG:O	4:A:2542:LEU:HG	2.18	0.43
4:A:2582:SER:HB3	4:A:2780:LEU:HB3	2.01	0.43
4:A:3467:ARG:O	4:A:3470:GLN:HG2	2.18	0.43
4:A:3733:ARG:HH21	4:A:3755:GLY:H	1.65	0.43
4:A:3805:TRP:CG	4:A:3806:LEU:N	2.86	0.43
4:A:4043:LYS:NZ	4:A:4066:LEU:HD22	2.34	0.43
6:C:40:MET:HG3	6:C:235:CYS:CA	2.45	0.43
6:C:339:CYS:O	6:C:396:ALA:N	2.40	0.43
6:C:341:SER:OG	6:C:394:ARG:O	2.24	0.43
6:C:345:PHE:CE2	6:C:391:ALA:HB2	2.53	0.43
6:C:443:LYS:HG3	6:C:444:TYR:CD2	2.54	0.43
4:S:292:SER:O	4:S:295:GLU:HG2	2.19	0.43
4:S:631:ARG:NH2	4:S:668:LYS:HD3	2.33	0.43
4:S:918:ALA:HB3	4:S:934:LEU:HD12	2.00	0.43
4:S:943:GLY:HA3	4:S:2783:ILE:HD12	2.00	0.43
4:S:979:VAL:HG23	4:S:982:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:994:TRP:HE3	4:S:2780:LEU:HD22	1.83	0.43
4:S:1436:LEU:HD12	4:S:1507:CYS:HB3	2.00	0.43
4:S:2372:PRO:O	4:S:2404:ARG:NH1	2.43	0.43
4:S:2444:PRO:HA	4:S:2479:TRP:CH2	2.53	0.43
4:S:3789:ARG:HH11	4:S:3806:LEU:HD22	1.84	0.43
4:S:4125:GLU:HG3	4:S:4127:TRP:NE1	2.34	0.43
5:T:283:PRO:HA	5:T:284:PRO:HD3	1.94	0.43
6:U:129:LYS:NZ	6:U:131:HIS:HB2	2.34	0.43
6:U:219:ASP:OD1	6:U:220:GLY:N	2.51	0.43
6:U:360:GLN:CD	6:U:404:GLN:HE22	2.20	0.43
6:U:394:ARG:HE	6:U:403:PRO:HB3	1.83	0.43
1:K:42:ALA:HB3	1:K:116:VAL:HG11	2.01	0.43
1:K:75:LEU:HA	1:K:75:LEU:HD23	1.69	0.43
1:K:107:ARG:HA	1:K:107:ARG:HD3	1.88	0.43
1:K:181:ILE:HG21	2:M:770:ASP:O	2.18	0.43
1:L:138:GLN:O	1:L:142:GLU:HG2	2.19	0.43
2:M:738:TRP:HB2	2:M:753:HIS:CD2	2.54	0.43
1:N:63:LYS:N	3:Q:111:GLU:O	2.52	0.43
2:P:700:VAL:HB	2:P:720:VAL:HA	2.00	0.43
2:P:893:TRP:HA	2:P:904:GLN:HB2	2.00	0.43
3:Q:37:LEU:HD21	3:Q:135:LEU:HD21	2.01	0.43
4:F:410:MET:HB3	4:F:442:GLN:NE2	2.34	0.43
4:F:538:ASP:HA	4:F:541:MET:SD	2.59	0.43
4:F:634:LEU:N	4:F:635:PRO:HD2	2.34	0.43
4:F:668:LYS:HD2	4:F:669:LEU:N	2.33	0.43
4:F:772:ALA:HB1	4:F:776:TRP:CZ2	2.53	0.43
4:F:1136:ARG:HA	4:F:1139:GLU:HG3	1.99	0.43
4:F:1754:GLN:HE22	4:F:1788:ARG:HB3	1.83	0.43
4:F:3254:LEU:HB2	4:F:3287:ARG:NH2	2.32	0.43
4:F:3256:MET:O	4:F:3260:LYS:HG3	2.19	0.43
4:F:3284:SER:O	4:F:3288:SER:N	2.51	0.43
4:F:3443:PRO:HB3	4:F:3471:ILE:HD11	2.01	0.43
4:F:3585:PHE:CE2	4:F:3664:ASN:HA	2.53	0.43
4:F:3812:LEU:HD22	4:F:3925:LEU:HD11	2.00	0.43
4:F:3924:HIS:HB2	4:F:4125:GLU:OE1	2.17	0.43
4:F:3925:LEU:HA	4:F:3928:PHE:CD2	2.48	0.43
4:F:4073:ALA:O	4:F:4077:TYR:N	2.40	0.43
5:G:276:LEU:O	6:H:431:ARG:N	2.51	0.43
5:G:278:GLN:HB3	6:H:431:ARG:HH21	1.84	0.43
5:G:363:ARG:HG3	5:G:436:PHE:CE1	2.53	0.43
6:H:343:LEU:HD21	6:H:394:ARG:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:I:39:DA:C2	8:J:18:DA:N7	2.86	0.43
4:A:189:MET:HG2	4:A:234:PHE:HZ	1.83	0.43
4:A:220:LEU:O	4:A:224:LEU:HG	2.19	0.43
4:A:306:VAL:HG23	4:A:309:LYS:HE2	2.00	0.43
4:A:1071:ASN:ND2	4:A:1074:LYS:HG3	2.33	0.43
4:A:1132:ASP:HB3	4:A:1136:ARG:HH21	1.83	0.43
4:A:1734:PRO:HB2	4:A:1735:ARG:NH1	2.33	0.43
4:A:2094:MET:O	4:A:2098:THR:N	2.37	0.43
4:A:2417:SER:HG	5:B:148:TRP:HZ2	1.64	0.43
4:A:2510:LEU:HD21	4:A:2525:TRP:CD1	2.53	0.43
4:A:2552:VAL:HA	4:A:2851:PHE:CE2	2.54	0.43
4:A:3315:TYR:HB2	4:A:3326:GLN:HE22	1.84	0.43
4:A:3658:ASP:N	4:A:3658:ASP:OD1	2.47	0.43
4:A:3737:ARG:HH21	4:A:3739:ILE:HD11	1.84	0.43
6:C:299:ASP:N	6:C:301:ASP:OD1	2.51	0.43
4:S:249:PHE:HA	4:S:252:VAL:HG12	2.00	0.43
4:S:335:LYS:HA	4:S:338:LEU:HG	2.00	0.43
4:S:776:TRP:O	4:S:780:ILE:HG22	2.18	0.43
4:S:990:GLN:NE2	4:S:2776:ARG:O	2.52	0.43
4:S:1945:TYR:HE2	4:S:2097:LEU:HG	1.84	0.43
4:S:2268:LYS:HD2	4:S:2315:VAL:HG22	1.99	0.43
4:S:2572:TYR:O	4:S:2787:HIS:HB2	2.18	0.43
4:S:3032:SER:OG	4:S:3038:GLU:OE2	2.26	0.43
4:S:3853:GLY:N	4:S:3856:MET:HB2	2.31	0.43
4:S:3908:HIS:HD2	4:S:3928:PHE:CE1	2.35	0.43
4:S:4086:ASP:OD1	4:S:4086:ASP:N	2.49	0.43
5:T:428:THR:O	5:T:428:THR:OG1	2.35	0.43
5:T:437:LEU:HD13	6:U:479:THR:OG1	2.18	0.43
6:U:453:ALA:HB2	6:U:536:LEU:HD23	2.00	0.43
6:U:609:PHE:HB3	6:U:612:ALA:HB3	1.99	0.43
3:X:184:PHE:O	3:Y:153:LEU:HD21	2.19	0.43
1:K:137:ASN:N	1:L:134:ILE:O	2.51	0.43
1:K:141:ASN:O	1:K:142:GLU:C	2.57	0.43
1:K:157:ASP:OD2	2:M:841:LYS:NZ	2.51	0.43
1:L:84:TYR:CZ	1:L:99:LYS:HG3	2.53	0.43
2:M:815:ARG:HD2	2:M:815:ARG:HA	1.81	0.43
1:O:169:LYS:O	1:O:173:GLU:HB2	2.19	0.43
1:O:188:LYS:HA	1:O:188:LYS:HD2	1.75	0.43
3:Q:31:LYS:NZ	3:Q:73:LEU:HD23	2.33	0.43
3:R:127:SER:O	3:R:131:VAL:HG23	2.19	0.43
3:R:218:TYR:O	3:R:222:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:71:LYS:HB3	4:F:78:PHE:CG	2.54	0.43
4:F:175:TYR:HA	4:F:225:LYS:N	2.25	0.43
4:F:276:ALA:HB2	4:F:315:ALA:HA	2.00	0.43
4:F:975:ASP:O	4:F:981:ARG:HB2	2.19	0.43
4:F:1060:PHE:HE2	4:F:1095:LEU:HD22	1.83	0.43
4:F:1306:ILE:HG13	4:F:1307:ILE:N	2.34	0.43
4:F:2307:MET:SD	4:F:2320:ALA:HB2	2.59	0.43
4:F:2365:ASN:HB2	4:F:2396:LEU:HD21	2.01	0.43
4:F:2375:ALA:HB3	4:F:2404:ARG:HH11	1.84	0.43
4:F:2470:ARG:HB3	4:F:2474:TYR:CZ	2.54	0.43
4:F:2863:CYS:HA	4:F:2869:LEU:HD23	2.00	0.43
4:F:3442:TYR:O	4:F:3446:VAL:HG13	2.19	0.43
4:F:3480:LEU:HA	4:F:3483:MET:HE3	2.00	0.43
4:F:3880:ALA:HA	4:F:3966:GLN:OE1	2.18	0.43
5:G:147:LEU:HA	5:G:150:CYS:SG	2.59	0.43
5:G:470:ARG:HH12	6:H:347:LYS:NZ	2.17	0.43
5:G:473:TYR:HB2	6:H:346:CYS:SG	2.58	0.43
6:H:129:LYS:HZ1	6:H:218:GLU:HG3	1.84	0.43
6:H:131:HIS:HE1	6:H:222:ASP:HB2	1.82	0.43
6:H:184:ARG:HG2	6:H:519:PRO:HD3	2.00	0.43
6:H:335:SER:HB2	6:H:394:ARG:NH2	2.34	0.43
8:J:16:DA:H3'	8:J:17:DT:N3	2.33	0.43
4:A:574:LYS:HB3	4:A:578:LYS:NZ	2.34	0.43
4:A:1157:PHE:HE1	4:A:1171:TRP:CD2	2.36	0.43
4:A:1396:PRO:O	4:A:1399:CYS:HB2	2.18	0.43
4:A:1676:ILE:HD13	4:A:1679:LEU:HD12	2.00	0.43
4:A:2384:PHE:CE1	5:B:198:ILE:HD11	2.54	0.43
4:A:2547:SER:O	4:A:2550:ILE:HG12	2.19	0.43
4:A:3175:PRO:HG2	4:A:3178:ILE:HG12	2.00	0.43
4:A:3733:ARG:NE	4:A:3754:GLY:HA2	2.32	0.43
5:B:82:LEU:HB2	5:B:108:LEU:HD22	2.00	0.43
5:B:392:LYS:CB	6:C:458:ILE:HD13	2.49	0.43
5:B:399:ARG:HH11	5:B:408:PRO:HG2	1.82	0.43
6:C:361:VAL:HG22	6:C:421:TYR:O	2.19	0.43
4:S:46:SER:HB3	4:S:834:LEU:HG	2.01	0.43
4:S:411:PRO:HG2	4:S:453:MET:HG3	2.00	0.43
4:S:784:VAL:O	4:S:787:PRO:HD2	2.18	0.43
4:S:924:ARG:HA	4:S:927:LYS:HB3	2.00	0.43
4:S:988:VAL:O	4:S:992:ILE:HG12	2.19	0.43
4:S:1228:GLY:HA2	4:S:1233:SER:HB2	2.01	0.43
4:S:1331:ASN:HB3	4:S:1384:PHE:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1394:HIS:O	4:S:1398:VAL:HG12	2.19	0.43
4:S:1436:LEU:HB2	4:S:1507:CYS:SG	2.59	0.43
4:S:1485:SER:HA	4:S:1488:TYR:HB3	2.01	0.43
4:S:1487:VAL:HG21	4:S:1563:PHE:HE2	1.84	0.43
4:S:3589:SER:HB2	4:S:3664:ASN:HB2	2.00	0.43
4:S:3838:GLU:OE1	4:S:3874:ARG:HD2	2.17	0.43
5:T:123:LYS:O	5:T:126:GLN:NE2	2.51	0.43
5:T:340:PHE:CE1	6:U:508:ILE:HG21	2.54	0.43
5:T:349:GLY:HA2	6:U:463:LEU:HD22	2.01	0.43
6:U:496:HIS:CG	6:U:500:HIS:HE1	2.36	0.43
6:U:606:LYS:HG3	6:U:649:PHE:CD2	2.52	0.43
6:U:687:THR:HG21	6:U:698:ALA:C	2.39	0.43
1:K:181:ILE:HD12	2:M:774:LEU:N	2.33	0.43
2:M:725:TRP:HB2	2:M:742:PHE:HB2	2.00	0.43
1:N:39:GLY:C	1:N:123:ILE:HD13	2.39	0.43
1:O:150:ARG:HG3	1:O:151:LEU:N	2.32	0.43
3:Q:75:HIS:NE2	3:Q:112:LEU:HD21	2.33	0.43
3:Q:164:ILE:HG23	3:R:167:TYR:HE2	1.84	0.43
4:F:50:VAL:O	4:F:53:LEU:HB3	2.18	0.43
4:F:108:LYS:NZ	4:F:148:LYS:HB2	2.32	0.43
4:F:301:CYS:HB3	4:F:316:LEU:HD13	1.99	0.43
4:F:459:ARG:O	4:F:462:VAL:HG22	2.19	0.43
4:F:528:VAL:HG12	4:F:633:ILE:HG12	2.01	0.43
4:F:583:LEU:HA	4:F:615:ALA:H	1.84	0.43
4:F:786:GLN:HA	4:F:789:TYR:CZ	2.54	0.43
4:F:826:PHE:HB3	4:F:828:LYS:NZ	2.34	0.43
4:F:890:LYS:HG3	4:F:906:PHE:HD2	1.83	0.43
4:F:973:ALA:HB1	4:F:985:GLU:HA	1.99	0.43
4:F:976:VAL:HA	4:F:981:ARG:NH2	2.33	0.43
4:F:1002:GLU:OE1	4:F:1002:GLU:N	2.47	0.43
4:F:1505:LEU:HA	4:F:1508:LYS:HD2	2.00	0.43
4:F:1709:GLU:OE1	4:F:1709:GLU:N	2.42	0.43
4:F:2184:TYR:HE1	4:F:2734:ARG:HD2	1.82	0.43
4:F:3324:ARG:NE	4:F:3388:ALA:O	2.42	0.43
4:F:3632:PHE:HZ	4:F:3673:ASP:N	2.17	0.43
4:F:3985:VAL:HG13	4:F:4100:GLU:HB3	2.01	0.43
4:F:4085:LYS:O	4:F:4089:ILE:HG23	2.18	0.43
5:G:47:ALA:O	5:G:171:ASN:ND2	2.52	0.43
5:G:350:PHE:H	6:H:463:LEU:HB2	1.84	0.43
6:H:10:VAL:HG13	6:H:132:ILE:HG22	2.00	0.43
6:H:161:LEU:HD12	6:H:162:GLN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:163:PHE:CZ	6:H:165:LEU:HA	2.54	0.43
6:H:266:SER:HB3	6:H:363:LYS:HG3	2.00	0.43
6:H:406:GLY:HA3	6:H:421:TYR:CE1	2.54	0.43
4:A:105:VAL:O	4:A:108:LYS:HG2	2.18	0.43
4:A:865:GLN:O	4:A:869:ASN:ND2	2.24	0.43
4:A:1058:SER:O	4:A:1061:LYS:HG2	2.19	0.43
4:A:1889:VAL:HA	4:A:1894:SER:HB2	2.01	0.43
4:A:2414:GLN:O	4:A:2418:LYS:N	2.23	0.43
4:A:3271:ASP:HA	4:A:3274:VAL:HG22	2.01	0.43
4:A:3527:GLN:HA	4:A:3530:VAL:HG12	2.00	0.43
4:A:3733:ARG:NH2	4:A:3755:GLY:H	2.15	0.43
4:A:4063:GLU:O	4:A:4064:LEU:HD23	2.19	0.43
5:B:294:GLU:OE2	6:C:297:LEU:HD22	2.19	0.43
5:B:369:TYR:HB2	6:C:433:TYR:HD2	1.84	0.43
5:B:509:PRO:HB2	5:B:512:GLU:HG2	1.99	0.43
9:D:30:DA:H2	10:E:28:DA:C2	2.37	0.43
9:D:33:DA:N7	10:E:23:DT:C2	2.87	0.43
4:S:250:ASN:OD1	4:S:300:TRP:NE1	2.52	0.43
4:S:374:LYS:HD3	4:S:423:TYR:C	2.39	0.43
4:S:468:LEU:CD1	4:S:475:LEU:HA	2.49	0.43
4:S:578:LYS:HE3	4:S:578:LYS:HB3	1.87	0.43
4:S:583:LEU:HB3	4:S:620:PHE:CE2	2.53	0.43
4:S:733:LEU:HD22	4:S:748:TYR:CE1	2.53	0.43
4:S:1331:ASN:OD1	4:S:1385:ASN:N	2.51	0.43
4:S:1785:ILE:HA	4:S:1788:ARG:HB2	1.99	0.43
4:S:2201:THR:HA	4:S:2202:PRO:HD3	1.91	0.43
4:S:2526:SER:O	4:S:2538:ARG:NH1	2.52	0.43
5:T:347:LEU:HD11	5:T:349:GLY:O	2.18	0.43
6:U:245:ILE:HD12	8:W:36:DG:H4'	2.00	0.43
6:U:313:GLY:HA2	6:U:321:VAL:O	2.18	0.43
6:U:602:VAL:HG21	6:U:642:PHE:CE1	2.54	0.43
3:Y:15:TRP:NE1	3:Y:18:LEU:HB2	2.33	0.43
2:M:723:PRO:O	2:M:727:LEU:HG	2.19	0.43
2:M:740:PRO:HB3	2:M:754:PHE:CD2	2.53	0.43
2:P:793:ALA:HA	2:P:814:ARG:HH11	1.84	0.43
3:Q:26:LYS:O	3:Q:36:LEU:HA	2.18	0.43
4:F:740:ILE:HG13	4:F:741:ILE:N	2.34	0.43
4:F:797:ASP:O	4:F:801:LYS:NZ	2.38	0.43
4:F:835:LYS:HA	4:F:835:LYS:HD3	1.88	0.43
4:F:888:ARG:HD2	4:F:3890:MET:HA	2.01	0.43
4:F:1249:SER:OG	4:F:1310:GLU:OE1	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1730:PRO:HD2	4:F:1733:THR:HG21	2.00	0.43
4:F:2507:ILE:O	4:F:2510:LEU:HB3	2.19	0.43
4:F:2815:GLY:HA2	4:F:2818:LYS:HG2	2.01	0.43
4:F:2833:THR:HG23	4:F:2868:LEU:HD22	2.01	0.43
4:F:2852:PRO:O	4:F:2856:SER:OG	2.28	0.43
4:F:3041:LEU:O	4:F:3045:ILE:HG12	2.19	0.43
4:F:3235:LYS:O	4:F:3239:LYS:HG3	2.19	0.43
6:H:251:LEU:HD13	6:H:340:PHE:HD2	1.84	0.43
6:H:446:PRO:HA	6:H:450:GLN:OE1	2.19	0.43
4:A:675:ARG:O	4:A:679:LYS:HG3	2.19	0.43
4:A:1069:HIS:CE1	4:A:1071:ASN:HB2	2.53	0.43
4:A:2424:MET:HB3	4:A:2461:PHE:HZ	1.83	0.43
4:A:2796:ALA:O	4:A:2799:GLN:HG2	2.19	0.43
4:A:3259:LEU:HA	4:A:3259:LEU:HD12	1.53	0.43
4:A:3260:LYS:HA	4:A:3260:LYS:HD3	1.71	0.43
4:A:3710:LYS:HD2	4:A:3711:PRO:O	2.18	0.43
4:A:3860:LYS:NZ	4:A:4072:PRO:HB2	2.34	0.43
6:C:12:LEU:HD13	6:C:133:GLU:O	2.19	0.43
6:C:76:ASN:ND2	6:C:103:GLN:HG2	2.34	0.43
6:C:84:MET:SD	6:C:90:LEU:HD22	2.59	0.43
10:E:24:DT:H5''	10:E:25:DT:H5''	2.01	0.43
10:E:31:DT:H6	10:E:31:DT:H2'	1.59	0.43
4:S:1019:ASP:OD1	4:S:1026:ARG:HD3	2.19	0.43
4:S:1078:ALA:HA	4:S:1127:CYS:HB3	2.01	0.43
4:S:1122:GLY:C	4:S:1124:ILE:H	2.22	0.43
4:S:1131:ILE:HG13	4:S:1132:ASP:N	2.34	0.43
4:S:3451:LEU:HD12	4:S:3454:LEU:HB3	2.00	0.43
5:T:74:LYS:HB2	5:T:111:PRO:HG3	2.00	0.43
5:T:351:LYS:HB2	5:T:397:LEU:HD22	2.00	0.43
5:T:353:LEU:O	5:T:353:LEU:HD23	2.19	0.43
5:T:474:ARG:NE	5:T:475:SER:H	2.16	0.43
6:U:88:PHE:CD1	6:U:494:LEU:HB3	2.54	0.43
6:U:107:PHE:CE1	6:U:136:THR:HG21	2.53	0.43
6:U:509:GLN:HG3	6:U:511:HIS:ND1	2.34	0.43
3:X:193:PHE:HB3	3:Y:220:ALA:HB3	2.01	0.43
1:L:35:THR:HB	1:L:44:THR:HA	2.01	0.43
2:M:669:GLY:H	2:M:675:LYS:HB2	1.84	0.43
2:M:776:GLU:O	2:M:779:SER:OG	2.25	0.43
1:N:198:LEU:HD13	1:O:197:LYS:HB3	2.00	0.43
2:P:715:SER:O	2:P:715:SER:OG	2.36	0.43
2:P:889:LEU:HD21	2:P:906:GLU:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:893:TRP:HB2	2:P:909:TYR:CE2	2.54	0.43
3:R:217:LEU:HD12	3:R:220:ALA:HB3	2.00	0.43
4:F:212:VAL:HB	5:G:339:ARG:NH1	2.34	0.43
4:F:425:ASP:OD1	4:F:425:ASP:N	2.45	0.43
4:F:833:HIS:HB3	4:F:838:LYS:NZ	2.32	0.43
4:F:1406:LEU:HA	4:F:1409:SER:HB3	2.00	0.43
4:F:1457:GLN:HA	4:F:1460:ARG:HE	1.84	0.43
4:F:1843:ILE:HB	4:F:1846:ASP:HB3	2.01	0.43
4:F:2133:LEU:HG	4:F:2167:PRO:HB3	2.01	0.43
4:F:3614:TYR:HA	4:F:3618:GLY:CA	2.47	0.43
4:F:3640:PHE:HB2	4:F:3667:LEU:HD12	2.00	0.43
4:F:3851:ASP:OD1	4:F:3851:ASP:N	2.50	0.43
4:F:3920:ILE:HD12	4:F:3942:PHE:HA	2.01	0.43
5:G:356:LEU:HG	6:H:353:ARG:NH1	2.33	0.43
5:G:371:GLU:OE2	5:G:373:SER:OG	2.29	0.43
5:G:532:PRO:HB2	6:H:259:ILE:HA	2.01	0.43
6:H:662:LEU:HA	6:H:665:LYS:HZ2	1.84	0.43
4:A:133:LYS:O	4:A:137:THR:HG23	2.18	0.43
4:A:213:ARG:HB2	5:B:405:ASN:HD22	1.84	0.43
4:A:793:LEU:HD23	4:A:869:ASN:C	2.40	0.43
4:A:1169:VAL:HB	4:A:1198:LEU:HD21	2.01	0.43
4:A:2401:VAL:O	4:A:2405:VAL:N	2.51	0.43
4:A:3334:TYR:CB	4:A:3381:ALA:HB2	2.49	0.43
4:A:3959:MET:HE1	4:A:4111:ALA:HA	2.01	0.43
5:B:389:CYS:SG	5:B:392:LYS:HE2	2.59	0.43
5:B:406:ILE:O	5:B:408:PRO:HD3	2.19	0.43
5:B:442:ASP:HB2	6:C:268:LEU:HB3	2.01	0.43
6:C:336:GLU:HB2	6:C:339:CYS:SG	2.58	0.43
9:D:25:DA:H1'	10:E:32:DT:H5''	2.00	0.43
4:S:63:PHE:CE2	4:S:67:VAL:HG11	2.53	0.43
4:S:100:ILE:HG23	4:S:104:SER:HB3	2.01	0.43
4:S:204:LEU:HB3	4:S:249:PHE:CD2	2.46	0.43
4:S:272:LEU:HD12	4:S:308:LEU:CD1	2.49	0.43
4:S:1270:PHE:HB3	4:S:1276:VAL:CG1	2.49	0.43
4:S:2228:ARG:NH1	7:V:44:DG:OP1	2.51	0.43
4:S:2326:ILE:HG22	4:S:2327:LEU:HD12	2.01	0.43
4:S:2467:THR:O	4:S:2471:GLU:HB3	2.18	0.43
4:S:2563:LEU:HD23	4:S:2795:GLN:HB3	2.00	0.43
4:S:3137:GLU:CB	4:S:3185:ASN:HD22	2.32	0.43
4:S:3189:PHE:O	4:S:3192:LYS:N	2.51	0.43
4:S:3451:LEU:HB2	4:S:3468:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3680:LEU:HD23	4:S:3688:SER:OG	2.19	0.43
4:S:3781:CYS:SG	4:S:3990:ALA:HB3	2.59	0.43
4:S:3913:ILE:HG12	4:S:3987:ALA:HB3	2.01	0.43
4:S:3951:GLN:H	4:S:4067:GLY:C	2.22	0.43
5:T:88:TYR:CD2	5:T:141:TYR:HB2	2.54	0.43
5:T:204:HIS:HB2	5:T:207:LYS:O	2.19	0.43
5:T:270:SER:OG	5:T:374:LEU:HD23	2.19	0.43
5:T:363:ARG:CZ	8:W:28:DA:H3'	2.49	0.43
6:U:30:PRO:HA	6:U:33:GLN:HE21	1.84	0.43
6:U:66:ASN:HB2	6:U:69:SER:HA	2.01	0.43
6:U:263:ALA:HB1	6:U:362:LEU:HB3	2.01	0.43
6:U:496:HIS:ND1	6:U:504:PRO:O	2.50	0.43
7:V:38:DT:H1'	8:W:21:DA:H2	1.84	0.43
1:K:18:HIS:CD2	1:K:36:LEU:HG	2.54	0.42
2:M:657:ASN:O	2:M:660:GLU:HB2	2.19	0.42
2:M:710:LYS:HD3	2:M:713:ILE:HD12	1.99	0.42
2:M:740:PRO:HB3	2:M:754:PHE:CG	2.54	0.42
1:O:22:VAL:HG12	1:O:24:TRP:HE3	1.84	0.42
3:Q:117:PHE:CZ	3:Q:119:TRP:HB2	2.54	0.42
3:Q:137:ARG:HA	3:R:204:ILE:HD11	2.01	0.42
3:Q:157:LEU:HB3	3:R:160:LYS:HZ2	1.84	0.42
4:F:857:GLN:HE22	4:F:3139:GLN:HB2	1.83	0.42
4:F:956:PRO:N	4:F:957:PRO:HD3	2.34	0.42
4:F:1221:ILE:HD12	4:F:1221:ILE:HA	1.94	0.42
4:F:1538:LEU:HD13	4:F:1553:PHE:CE1	2.54	0.42
4:F:1538:LEU:CB	4:F:1553:PHE:H	2.32	0.42
4:F:2386:LEU:HB2	4:F:2397:CYS:SG	2.59	0.42
4:F:2525:TRP:HA	4:F:2530:ARG:HB3	2.01	0.42
4:F:3020:ASP:O	4:F:3030:ILE:HG21	2.19	0.42
4:F:3254:LEU:HB2	4:F:3287:ARG:HH21	1.84	0.42
4:F:3363:SER:HA	4:F:3380:ARG:NE	2.34	0.42
5:G:191:GLY:O	5:G:195:ASP:HB2	2.18	0.42
6:H:335:SER:HB2	6:H:403:PRO:HG3	2.01	0.42
6:H:340:PHE:CZ	6:H:393:VAL:HG11	2.54	0.42
6:H:500:HIS:HB2	6:H:503:GLU:HG3	2.00	0.42
8:J:15:DA:C4	8:J:16:DA:H5'	2.54	0.42
8:J:22:DG:H3'	8:J:23:DT:C5	2.54	0.42
8:J:37:DG:H1'	8:J:38:DG:H4'	2.00	0.42
4:A:960:GLN:HA	4:A:963:LYS:HG2	2.01	0.42
4:A:1217:VAL:N	4:A:1284:THR:OG1	2.52	0.42
4:A:1455:CYS:O	4:A:1464:LEU:HD22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2426:HIS:CD2	4:A:2428:ASP:HB2	2.53	0.42
4:A:2526:SER:O	4:A:2538:ARG:NH2	2.52	0.42
4:A:3103:ILE:HD12	4:A:3103:ILE:HA	1.84	0.42
4:A:3141:PHE:CZ	4:A:3192:LYS:HB3	2.53	0.42
4:A:3884:LYS:O	4:A:3888:VAL:HG23	2.18	0.42
4:A:4108:MET:O	4:A:4112:THR:HG22	2.19	0.42
5:B:168:LEU:HD12	5:B:169:PHE:N	2.33	0.42
5:B:303:PHE:N	6:C:290:GLN:O	2.45	0.42
5:B:311:LEU:HD12	5:B:311:LEU:HA	1.91	0.42
6:C:67:PRO:HD3	6:C:79:VAL:HG11	1.99	0.42
6:C:76:ASN:ND2	6:C:104:GLN:O	2.51	0.42
6:C:212:MET:SD	6:C:220:GLY:HA3	2.59	0.42
6:C:342:VAL:HA	6:C:393:VAL:HA	2.00	0.42
4:S:904:VAL:N	4:S:2819:GLU:HG3	2.34	0.42
4:S:999:LYS:HZ3	4:S:2780:LEU:HD11	1.83	0.42
4:S:1864:ASP:HA	4:S:1867:ILE:HG22	2.00	0.42
4:S:2223:VAL:HG22	4:S:2234:ASN:HB3	2.01	0.42
4:S:2366:LYS:HA	4:S:2366:LYS:HD2	1.87	0.42
4:S:2410:GLU:OE2	4:S:2413:PHE:N	2.52	0.42
4:S:2503:LYS:HD2	4:S:2545:LEU:HD23	2.01	0.42
4:S:2842:ARG:O	4:S:2846:THR:N	2.45	0.42
4:S:3577:GLN:O	4:S:3629:ARG:HD3	2.19	0.42
4:S:3888:VAL:HG12	4:S:3897:PHE:CE1	2.54	0.42
5:T:34:GLY:HA3	5:T:162:SER:HB3	2.01	0.42
5:T:70:VAL:CG1	5:T:242:LEU:HB3	2.49	0.42
5:T:453:MET:SD	6:U:382:HIS:ND1	2.92	0.42
6:U:274:LYS:HD2	6:U:274:LYS:HA	1.71	0.42
6:U:457:LEU:HB2	6:U:533:ILE:HG12	2.00	0.42
6:U:636:ILE:HA	6:U:639:ILE:HG12	2.01	0.42
6:U:642:PHE:HA	6:U:645:GLU:HB2	2.00	0.42
3:X:160:LYS:O	3:Y:164:ILE:HB	2.19	0.42
3:Y:44:VAL:HG22	3:Y:135:LEU:HG	1.99	0.42
1:L:7:ARG:O	1:L:76:SER:OG	2.31	0.42
1:L:180:PHE:CZ	1:L:184:LEU:HD22	2.54	0.42
2:M:757:GLU:HG3	2:M:758:TYR:CD2	2.54	0.42
1:N:93:CYS:SG	1:N:115:LYS:N	2.92	0.42
4:F:105:VAL:HA	4:F:108:LYS:HE2	2.00	0.42
4:F:144:MET:N	4:F:146:GLU:OE1	2.50	0.42
4:F:727:ALA:O	4:F:730:LEU:HG	2.19	0.42
4:F:1060:PHE:HB3	4:F:1064:TYR:CZ	2.54	0.42
4:F:1089:PHE:CZ	4:F:1096:VAL:HG12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1366:THR:HB	4:F:1369:MET:CE	2.49	0.42
4:F:1626:TRP:CD1	4:F:1627:LYS:HD3	2.54	0.42
4:F:2097:LEU:HD13	4:F:2149:LEU:HD23	2.01	0.42
4:F:2331:MET:HG2	4:F:2334:LYS:HG2	2.01	0.42
4:F:2450:GLU:HA	4:F:2453:GLU:OE2	2.19	0.42
4:F:2534:ASN:ND2	4:F:2536:LEU:HB3	2.33	0.42
4:F:2972:TYR:CE2	4:F:2997:ALA:HB3	2.54	0.42
4:F:3235:LYS:HB3	4:F:3239:LYS:HZ2	1.83	0.42
4:F:3335:ARG:NH2	4:F:3419:PHE:HA	2.34	0.42
4:F:3360:LEU:HD22	4:F:3377:LEU:HD11	2.01	0.42
4:F:3910:LEU:HA	4:F:3913:ILE:HG22	2.01	0.42
5:G:100:LYS:HA	5:G:100:LYS:HD2	1.87	0.42
5:G:440:ALA:H	6:H:483:PRO:HA	1.84	0.42
4:A:631:ARG:HH11	4:A:668:LYS:HA	1.83	0.42
4:A:752:LEU:HD21	4:A:773:LEU:HD13	2.01	0.42
4:A:763:THR:O	4:A:846:ILE:HG22	2.19	0.42
4:A:933:LEU:HG	4:A:2793:PRO:HB2	2.01	0.42
4:A:1413:ASP:N	4:A:1413:ASP:OD1	2.51	0.42
4:A:1874:TYR:HB2	4:A:1943:ALA:HB1	2.00	0.42
4:A:2282:ALA:HA	4:A:2325:LEU:HD13	2.01	0.42
4:A:2472:GLN:HE21	4:A:2476:ILE:HG13	1.84	0.42
4:A:3269:ARG:HB2	4:A:3272:TRP:CE2	2.55	0.42
4:A:4013:TRP:HB2	4:A:4038:TRP:CD1	2.54	0.42
5:B:64:ILE:HG23	5:B:119:LEU:HB3	2.00	0.42
5:B:275:ASN:HA	6:C:431:ARG:HH12	1.84	0.42
6:C:147:LEU:HA	6:C:150:ILE:HG12	2.01	0.42
4:S:301:CYS:HB3	4:S:312:ALA:CB	2.49	0.42
4:S:407:VAL:HB	4:S:449:TYR:CE1	2.54	0.42
4:S:1138:ILE:HG12	4:S:1145:LEU:HD22	2.00	0.42
4:S:1747:LEU:HD21	4:S:1778:PHE:CD1	2.54	0.42
4:S:1920:TYR:HH	4:S:2125:TRP:HE1	1.60	0.42
4:S:2227:LYS:HB3	4:S:2227:LYS:HE3	1.84	0.42
4:S:2253:TYR:CE2	4:S:2289:ASP:HB3	2.54	0.42
4:S:2375:ALA:HA	4:S:2378:PHE:HD1	1.84	0.42
4:S:2438:ILE:HA	4:S:2441:LYS:HD3	2.01	0.42
4:S:2512:ASP:N	4:S:2518:GLN:OE1	2.37	0.42
4:S:3424:LEU:HD22	4:S:3475:TYR:CZ	2.54	0.42
4:S:3626:GLY:HA2	4:S:3682:GLU:HB2	2.00	0.42
5:T:287:LYS:O	5:T:296:VAL:N	2.43	0.42
1:K:57:ASP:OD2	3:R:64:ARG:NE	2.41	0.42
1:K:140:LYS:HG2	1:K:143:HIS:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:PHE:HB2	1:L:37:THR:HG22	1.99	0.42
1:L:181:ILE:HD11	2:M:799:LEU:HD11	2.02	0.42
1:N:172:LEU:HB3	1:O:169:LYS:HE3	2.01	0.42
1:N:178:LYS:O	1:N:182:LEU:HG	2.18	0.42
1:O:42:ALA:HB3	1:O:116:VAL:HG21	2.02	0.42
2:P:654:LYS:NZ	2:P:686:GLY:HA2	2.34	0.42
3:Q:15:TRP:O	3:Q:17:GLN:NE2	2.44	0.42
4:F:90:CYS:O	4:F:93:LEU:HB3	2.19	0.42
4:F:294:PHE:N	4:F:294:PHE:CD1	2.82	0.42
4:F:357:LYS:O	4:F:361:ILE:HG12	2.19	0.42
4:F:364:ARG:NH2	4:F:416:SER:HA	2.34	0.42
4:F:385:TYR:CE2	4:F:428:PRO:HG2	2.54	0.42
4:F:396:PHE:CD2	4:F:397:LEU:HG	2.54	0.42
4:F:722:LYS:O	4:F:726:LEU:N	2.32	0.42
4:F:726:LEU:HD12	4:F:729:CYS:HB2	2.01	0.42
4:F:1625:HIS:HA	4:F:1628:LYS:NZ	2.34	0.42
4:F:1725:GLN:OE1	4:F:1727:ARG:N	2.36	0.42
4:F:2384:PHE:CE1	5:G:154:PHE:HB3	2.47	0.42
4:F:2397:CYS:O	4:F:2400:VAL:HG22	2.18	0.42
4:F:2466:SER:HB2	4:F:2469:CYS:SG	2.59	0.42
4:F:3169:PRO:HB3	4:F:3182:ILE:HG13	2.02	0.42
4:F:3325:ASP:HA	4:F:3328:ILE:HG22	2.00	0.42
4:F:3985:VAL:HG12	4:F:3989:ARG:CZ	2.50	0.42
5:G:165:ARG:NH1	5:G:200:LEU:O	2.53	0.42
5:G:204:HIS:CE1	5:G:239:LEU:HD12	2.54	0.42
5:G:300:THR:HA	6:H:293:THR:HA	2.01	0.42
5:G:453:MET:HE1	6:H:382:HIS:HB2	2.01	0.42
6:H:602:VAL:HG12	6:H:609:PHE:CD2	2.54	0.42
7:I:37:DT:H6	7:I:37:DT:H2'	1.69	0.42
4:A:60:SER:O	4:A:63:PHE:HB3	2.18	0.42
4:A:345:PHE:HA	4:A:348:ILE:HG12	2.02	0.42
4:A:1735:ARG:H	4:A:1735:ARG:HG2	1.61	0.42
4:A:2287:PRO:HB2	4:A:2300:PHE:CZ	2.54	0.42
4:A:2816:ILE:HG22	4:A:2820:MET:CE	2.49	0.42
4:A:2818:LYS:HA	4:A:2821:ASP:OD2	2.19	0.42
4:A:3065:ILE:HG22	4:A:3069:MET:HE1	2.01	0.42
4:A:3113:ASN:HB3	4:A:3128:LYS:HZ3	1.83	0.42
4:A:3176:MET:O	4:A:3179:TRP:HB2	2.20	0.42
4:A:3414:MET:HG3	4:A:3460:GLU:OE1	2.19	0.42
4:A:3487:ILE:HG21	4:A:3502:MET:SD	2.59	0.42
5:B:47:ALA:O	5:B:171:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:204:HIS:CG	5:B:214:SER:HB3	2.53	0.42
5:B:403:ARG:NE	9:D:32:DA:OP1	2.39	0.42
4:S:146:GLU:O	4:S:149:ILE:HG12	2.20	0.42
4:S:280:SER:HA	4:S:322:GLN:NE2	2.34	0.42
4:S:532:ARG:NE	4:S:636:GLU:HG3	2.34	0.42
4:S:637:LYS:HA	4:S:637:LYS:HD2	1.85	0.42
4:S:710:PHE:O	4:S:713:GLU:HG3	2.19	0.42
4:S:1070:PRO:HA	4:S:1075:ARG:HH11	1.84	0.42
4:S:1126:GLN:O	4:S:1127:CYS:HB2	2.19	0.42
4:S:1516:GLU:HA	4:S:1519:PHE:CD2	2.54	0.42
4:S:1715:GLU:HB3	6:U:630:PRO:CG	2.44	0.42
4:S:1754:GLN:HG3	4:S:1793:THR:HG21	2.00	0.42
4:S:2221:LYS:HZ3	4:S:2255:LEU:HD13	1.84	0.42
4:S:2548:PRO:O	4:S:2847:THR:OG1	2.29	0.42
4:S:3008:TRP:O	4:S:3012:GLU:HG3	2.19	0.42
4:S:3078:LEU:HA	4:S:3082:TYR:O	2.19	0.42
4:S:3503:VAL:HA	4:S:3506:LEU:HB3	2.00	0.42
4:S:3805:TRP:HH2	4:S:3940:ILE:HG23	1.83	0.42
4:S:3812:LEU:HD11	4:S:3928:PHE:HB2	2.01	0.42
4:S:4043:LYS:HD3	4:S:4043:LYS:HA	1.93	0.42
4:S:4071:ALA:HB3	4:S:4077:TYR:OH	2.18	0.42
5:T:359:HIS:HD2	6:U:363:LYS:NZ	2.18	0.42
5:T:444:ARG:HH22	6:U:368:ARG:NE	2.18	0.42
6:U:168:SER:HB3	6:U:226:SER:HB2	2.00	0.42
6:U:597:ASN:HD22	6:U:615:GLN:NE2	2.12	0.42
6:U:674:PHE:HB2	6:U:675:TRP:CE3	2.54	0.42
1:K:62:GLU:HA	3:R:115:LEU:O	2.20	0.42
1:L:34:ILE:HD12	1:L:111:PHE:CD1	2.55	0.42
1:L:177:TYR:HH	2:M:805:TRP:HE3	1.67	0.42
2:M:751:LYS:HA	2:M:754:PHE:CD2	2.54	0.42
2:M:898:ILE:C	2:M:901:CYS:H	2.23	0.42
1:N:100:ASN:HA	1:N:106:PHE:HB2	2.01	0.42
1:N:191:ILE:HG23	1:O:194:LEU:HD11	2.01	0.42
2:P:741:ARG:HH12	2:P:742:PHE:HB3	1.84	0.42
3:Q:56:GLN:NE2	3:Q:57:ARG:HG3	2.34	0.42
3:Q:106:LEU:HB2	3:Q:121:PHE:H	1.84	0.42
4:F:305:ASN:HB3	4:F:307:GLU:OE2	2.19	0.42
4:F:614:PRO:HB3	4:F:620:PHE:CE2	2.54	0.42
4:F:672:ILE:HG13	4:F:676:ASN:HD21	1.84	0.42
4:F:924:ARG:O	4:F:928:VAL:HB	2.19	0.42
4:F:1081:ALA:O	4:F:1085:ILE:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1297:PHE:HA	4:F:1301:ILE:HB	2.01	0.42
4:F:1536:ALA:O	4:F:1554:SER:HA	2.20	0.42
4:F:1783:ARG:HB3	4:F:1787:ARG:HH21	1.83	0.42
4:F:2120:ARG:HB3	4:F:2160:TYR:CE1	2.41	0.42
4:F:2339:GLU:HA	4:F:2342:CYS:SG	2.59	0.42
4:F:2587:GLN:HG2	4:F:2777:HIS:O	2.19	0.42
4:F:3029:LYS:HD3	4:F:3033:GLU:OE2	2.19	0.42
4:F:3048:LYS:HA	4:F:3048:LYS:HD3	1.87	0.42
4:F:3238:MET:HE2	4:F:3241:LYS:HZ3	1.83	0.42
4:F:3640:PHE:HE1	4:F:3663:THR:HG1	1.65	0.42
5:G:327:ILE:HG23	6:H:497:ARG:HB3	2.02	0.42
6:H:667:GLU:HA	6:H:675:TRP:CE2	2.54	0.42
6:H:675:TRP:HE3	6:H:675:TRP:H	1.68	0.42
4:A:36:ARG:HE	4:A:2426:HIS:HA	1.85	0.42
4:A:710:PHE:O	4:A:713:GLU:HG3	2.18	0.42
4:A:1805:PHE:CE1	4:A:1820:VAL:HG22	2.54	0.42
4:A:1846:ASP:HA	4:A:1849:ASP:OD2	2.19	0.42
4:A:2477:LEU:HD13	4:A:2505:VAL:HG21	2.01	0.42
4:A:3302:LYS:HB3	4:A:3302:LYS:HE3	1.80	0.42
4:A:3330:LEU:HG	4:A:3334:TYR:CZ	2.55	0.42
4:A:3535:ILE:HG13	4:A:3798:SER:CB	2.49	0.42
4:A:4082:ARG:NE	4:A:4095:GLU:OE2	2.48	0.42
6:C:295:TYR:HE2	6:C:307:LYS:HA	1.83	0.42
9:D:42:DA:C2	10:E:15:DA:H1'	2.54	0.42
4:S:363:ILE:HA	4:S:366:TYR:CD2	2.54	0.42
4:S:1711:ARG:NH2	4:S:1715:GLU:OE2	2.52	0.42
4:S:1803:GLU:HA	4:S:1806:ARG:CZ	2.49	0.42
4:S:2105:HIS:O	4:S:2108:LEU:HB2	2.20	0.42
4:S:2106:ARG:HD3	4:S:2106:ARG:HA	1.75	0.42
4:S:2122:LEU:C	4:S:2127:LYS:HE3	2.39	0.42
4:S:2572:TYR:HA	4:S:2787:HIS:HB2	2.01	0.42
4:S:2972:TYR:HB3	4:S:2998:SER:CB	2.48	0.42
4:S:3012:GLU:HA	4:S:3047:SER:HB2	2.01	0.42
4:S:3887:PHE:CE1	4:S:3905:ALA:HB2	2.55	0.42
4:S:4090:ARG:NH1	4:S:4109:ASP:OD2	2.52	0.42
5:T:203:MET:HG2	5:T:238:LYS:HG2	2.01	0.42
5:T:407:PRO:HG3	6:U:486:ARG:CA	2.49	0.42
5:T:487:PHE:HA	5:T:490:LEU:HB2	2.01	0.42
6:U:20:MET:SD	6:U:31:PHE:HB2	2.59	0.42
6:U:106:ASP:HB3	6:U:109:ASP:HB2	2.00	0.42
6:U:595:ALA:HB1	6:U:599:ARG:CZ	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:619:HIS:HE1	6:U:634:LYS:HB3	1.85	0.42
6:U:621:GLU:HB3	6:U:665:LYS:NZ	2.34	0.42
1:K:18:HIS:CG	1:K:38:ASP:HB3	2.54	0.42
1:L:64:GLY:HA3	3:Y:116:PRO:CG	2.50	0.42
1:L:155:TRP:HA	1:L:158:VAL:HG12	2.00	0.42
2:M:706:ASN:H	2:M:709:VAL:HB	1.84	0.42
2:M:738:TRP:CE3	2:M:750:THR:HA	2.54	0.42
2:M:753:HIS:HA	2:M:756:ARG:HB2	2.00	0.42
1:N:161:ARG:HE	2:P:899:ASP:CG	2.18	0.42
2:P:663:GLU:OE1	2:P:697:THR:OG1	2.26	0.42
4:F:738:HIS:HA	4:F:741:ILE:CG1	2.50	0.42
4:F:1345:THR:O	4:F:1349:LEU:HG	2.20	0.42
4:F:1670:GLU:HG3	4:F:1671:VAL:N	2.33	0.42
4:F:1942:CYS:SG	4:F:1943:ALA:N	2.92	0.42
4:F:2097:LEU:HD22	4:F:2149:LEU:HB3	2.01	0.42
4:F:2225:HIS:HB2	4:F:2231:PHE:CB	2.41	0.42
4:F:2288:TYR:HB3	4:F:2300:PHE:CZ	2.55	0.42
4:F:2361:ILE:HD12	4:F:2361:ILE:HA	1.90	0.42
4:F:2757:ILE:HD13	4:F:2757:ILE:HA	1.92	0.42
4:F:3912:CYS:HB3	4:F:3961:PHE:CD1	2.55	0.42
5:G:35:ARG:HH21	5:G:80:ARG:HB3	1.85	0.42
5:G:83:LEU:O	5:G:106:GLN:NE2	2.52	0.42
5:G:264:ASN:OD1	5:G:267:ILE:HG12	2.19	0.42
5:G:384:ALA:HB2	6:H:450:GLN:HB3	2.02	0.42
5:G:469:LEU:HD11	5:G:514:MET:HB2	2.01	0.42
5:G:470:ARG:HD3	6:H:345:PHE:O	2.19	0.42
6:H:207:ILE:O	6:H:210:MET:HG3	2.19	0.42
6:H:252:THR:HA	6:H:257:LEU:O	2.19	0.42
4:A:135:LEU:HD22	4:A:177:LEU:HD13	2.01	0.42
4:A:146:GLU:HB2	4:A:184:VAL:N	2.33	0.42
4:A:623:PHE:O	4:A:627:VAL:HG22	2.19	0.42
4:A:869:ASN:O	4:A:872:THR:OG1	2.23	0.42
4:A:883:TYR:HB3	4:A:3893:SER:HB3	2.02	0.42
4:A:1101:PHE:C	4:A:1154:PRO:HG3	2.39	0.42
4:A:3034:PRO:HB3	4:A:3036:TYR:CZ	2.54	0.42
4:A:3046:ARG:O	4:A:3050:LYS:HG2	2.19	0.42
4:A:4020:MET:CB	4:A:4027:TRP:HB3	2.46	0.42
5:B:141:TYR:HE2	5:B:143:LEU:HD23	1.85	0.42
5:B:316:THR:O	5:B:331:LYS:NZ	2.34	0.42
9:D:40:DT:H5"	9:D:41:DT:C2	2.55	0.42
4:S:338:LEU:HD12	4:S:339:GLN:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:561:ASN:HD22	4:S:564:LEU:HD12	1.84	0.42
4:S:791:ASP:C	4:S:794:PRO:HD2	2.40	0.42
4:S:792:ILE:HG22	4:S:796:LEU:HG	2.01	0.42
4:S:1440:ASP:H	4:S:1445:ARG:NH2	2.16	0.42
4:S:2120:ARG:HH11	4:S:2160:TYR:HD1	1.66	0.42
4:S:2379:MET:CE	4:S:2404:ARG:HE	2.31	0.42
4:S:3059:GLN:HB3	4:S:3062:LEU:HB2	2.02	0.42
4:S:3335:ARG:NH1	4:S:3415:THR:HA	2.22	0.42
4:S:3682:GLU:HA	4:S:3688:SER:HB2	2.01	0.42
4:S:4057:ALA:HB1	4:S:4082:ARG:HA	2.02	0.42
5:T:80:ARG:NH1	8:W:26:DT:OP2	2.52	0.42
5:T:142:SER:HB3	5:T:145:GLU:OE1	2.19	0.42
5:T:253:LYS:HE2	8:W:25:DT:H4'	2.02	0.42
5:T:259:LEU:CD1	7:V:33:DA:H2'	2.48	0.42
5:T:351:LYS:H	5:T:397:LEU:HB2	1.83	0.42
5:T:359:HIS:O	6:U:363:LYS:HG3	2.20	0.42
8:W:27:DT:H6	8:W:27:DT:H2'	1.67	0.42
3:X:220:ALA:HB1	3:Y:195:ILE:HG23	2.02	0.42
1:K:51:GLU:O	1:K:54:GLN:HG2	2.19	0.42
1:O:5:ILE:HG12	1:O:126:LEU:HG	2.01	0.42
2:P:863:VAL:O	2:P:889:LEU:N	2.52	0.42
3:Q:44:VAL:HG22	3:Q:126:ALA:HB3	2.02	0.42
3:Q:176:ARG:NH2	3:Q:180:LYS:HA	2.34	0.42
3:Q:220:ALA:HB3	3:R:198:LEU:HD23	2.01	0.42
4:F:175:TYR:O	4:F:225:LYS:HG2	2.20	0.42
4:F:429:GLU:OE1	4:F:429:GLU:N	2.50	0.42
4:F:759:GLY:HA2	4:F:765:LEU:HD23	2.01	0.42
4:F:1271:ILE:O	4:F:1274:ARG:HD2	2.20	0.42
4:F:1504:ASP:O	4:F:1508:LYS:N	2.48	0.42
4:F:1567:ILE:O	4:F:1571:LEU:HD23	2.19	0.42
4:F:1824:LEU:HG	4:F:1825:LEU:N	2.34	0.42
4:F:2414:GLN:O	4:F:2418:LYS:HG2	2.19	0.42
4:F:2522:ARG:NH2	4:F:2564:GLU:OE2	2.46	0.42
4:F:2840:PHE:O	4:F:2844:LEU:HD23	2.19	0.42
4:F:3499:ILE:HD12	4:F:3499:ILE:HA	1.88	0.42
4:F:3506:LEU:HG	4:F:3555:VAL:HG12	2.02	0.42
4:F:3661:ASP:O	4:F:3664:ASN:HB2	2.20	0.42
4:F:3979:LEU:HD12	4:F:3980:MET:N	2.35	0.42
4:F:4107:LEU:O	4:F:4112:THR:N	2.51	0.42
5:G:283:PRO:HG2	5:G:486:HIS:NE2	2.34	0.42
5:G:349:GLY:C	5:G:397:LEU:HB3	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:444:ARG:O	6:H:266:SER:HA	2.19	0.42
4:A:753:GLN:HE22	4:A:792:ILE:HG12	1.83	0.42
4:A:863:GLY:H	4:A:3167:ARG:HD3	1.85	0.42
4:A:1242:LEU:HD13	4:A:1309:ALA:O	2.20	0.42
4:A:1400:VAL:HG12	4:A:1404:LYS:HZ3	1.84	0.42
4:A:1605:PHE:O	4:A:1608:ARG:HG2	2.19	0.42
4:A:1948:ALA:O	4:A:1952:ILE:HG12	2.20	0.42
4:A:2102:LYS:HB2	4:A:2106:ARG:NH1	2.34	0.42
4:A:2160:TYR:HB2	4:A:2164:TRP:CD1	2.55	0.42
4:A:2352:HIS:HB2	4:A:2356:MET:SD	2.60	0.42
4:A:3141:PHE:CE2	4:A:3192:LYS:HB3	2.54	0.42
4:A:3162:ASN:O	4:A:3166:ASN:ND2	2.53	0.42
4:A:3504:ALA:O	4:A:3508:LYS:HG2	2.18	0.42
4:A:3531:TYR:CE1	4:A:3801:GLY:HA2	2.51	0.42
5:B:94:LYS:N	5:B:102:ILE:O	2.52	0.42
5:B:122:PHE:HE1	5:B:130:ARG:HE	1.67	0.42
5:B:241:ASP:OD1	5:B:242:LEU:N	2.51	0.42
5:B:329:LEU:HA	6:C:497:ARG:NH1	2.34	0.42
5:B:360:HIS:HA	5:B:362:LEU:HD23	2.01	0.42
5:B:375:VAL:HA	6:C:540:ILE:HG13	2.01	0.42
5:B:530:TYR:CD1	5:B:531:PRO:HD2	2.54	0.42
4:S:15:LEU:HB3	4:S:63:PHE:CE2	2.55	0.42
4:S:107:ILE:O	4:S:110:THR:OG1	2.28	0.42
4:S:479:ILE:O	4:S:483:VAL:HG22	2.20	0.42
4:S:756:PHE:CD2	4:S:795:CYS:HB2	2.54	0.42
4:S:931:CYS:SG	4:S:980:THR:HG22	2.60	0.42
4:S:993:HIS:HA	4:S:1039:TRP:CD1	2.54	0.42
4:S:1037:LEU:HD11	4:S:1088:GLU:OE2	2.19	0.42
4:S:1100:VAL:HG23	4:S:1101:PHE:N	2.34	0.42
4:S:1101:PHE:HB3	4:S:1168:LEU:HG	2.01	0.42
4:S:1863:PHE:HA	4:S:1866:GLN:CD	2.40	0.42
4:S:2238:ILE:O	4:S:2241:LEU:HG	2.19	0.42
4:S:3459:ASN:O	4:S:3463:LEU:HG	2.19	0.42
4:S:4043:LYS:HG2	4:S:4066:LEU:HD23	2.02	0.42
6:U:364:VAL:HG11	6:U:419:LEU:HD22	2.01	0.42
6:U:468:GLU:HB2	6:U:474:GLU:OE2	2.20	0.42
1:K:185:ASN:HB2	2:M:769:THR:HG22	2.01	0.42
1:L:36:LEU:HD23	1:L:88:PHE:CD1	2.55	0.42
1:L:162:PHE:HA	1:L:165:CYS:SG	2.60	0.42
2:M:675:LYS:HE2	2:M:675:LYS:HB3	1.82	0.42
2:M:707:ILE:HG22	5:B:496:ASP:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:166:VAL:HG11	2:P:846:ARG:HB3	2.01	0.42
2:P:710:LYS:HE3	5:G:498:MET:O	2.19	0.42
3:Q:45:TRP:CE3	3:Q:104:LEU:HD22	2.54	0.42
3:Q:72:PHE:O	3:Q:76:LEU:HG	2.19	0.42
3:Q:176:ARG:H	3:Q:176:ARG:HD3	1.84	0.42
4:F:384:MET:HA	4:F:387:GLU:HB3	2.00	0.42
4:F:637:LYS:HZ1	4:F:640:GLU:HB2	1.84	0.42
4:F:830:VAL:O	4:F:832:LYS:NZ	2.51	0.42
4:F:966:PHE:HB2	4:F:1011:GLU:OE2	2.20	0.42
4:F:1057:LYS:HA	4:F:1060:PHE:CD2	2.55	0.42
4:F:1342:MET:O	4:F:1346:THR:HG23	2.19	0.42
4:F:1711:ARG:HG2	4:F:1715:GLU:OE2	2.19	0.42
4:F:2242:VAL:HG22	4:F:2283:ASN:HD21	1.83	0.42
4:F:2322:VAL:HA	4:F:2325:LEU:HD12	2.02	0.42
4:F:2324:GLY:CA	4:F:2367:VAL:HG23	2.49	0.42
4:F:2335:ASN:ND2	4:F:2337:LEU:HD23	2.34	0.42
4:F:3008:TRP:O	4:F:3011:LEU:N	2.44	0.42
4:F:3161:LEU:O	4:F:3166:ASN:HA	2.19	0.42
4:F:3421:ASP:HB3	4:F:3425:ARG:HH21	1.84	0.42
4:F:3505:LEU:HA	4:F:3508:LYS:HD2	2.00	0.42
4:F:3519:GLU:HB2	4:F:3558:ILE:HD11	2.01	0.42
4:F:3910:LEU:HD12	4:F:3913:ILE:CG2	2.49	0.42
5:G:48:MET:HB2	5:G:49:PHE:CE2	2.55	0.42
5:G:193:LEU:HD13	5:G:198:ILE:HG22	2.00	0.42
5:G:532:PRO:HG3	6:H:259:ILE:HG12	2.02	0.42
6:H:686:ILE:HG13	6:H:707:PRO:HD3	2.01	0.42
4:A:256:ILE:O	6:C:551:GLN:HG2	2.20	0.42
4:A:410:MET:N	4:A:411:PRO:HD3	2.35	0.42
4:A:730:LEU:O	4:A:734:LEU:HG	2.19	0.42
4:A:895:ALA:HA	4:A:904:VAL:HA	2.01	0.42
4:A:1165:LEU:HD21	4:A:1194:PHE:HB3	2.02	0.42
4:A:1636:ASP:HA	4:A:1683:LYS:NZ	2.34	0.42
4:A:1669:PRO:O	4:A:1673:THR:HG23	2.19	0.42
4:A:2095:ALA:O	4:A:2099:ALA:CB	2.67	0.42
4:A:2770:VAL:HG23	4:A:2772:TYR:CE1	2.55	0.42
4:A:3273:LEU:HB3	4:A:3315:TYR:CD2	2.55	0.42
4:A:3518:VAL:HG12	4:A:3558:ILE:HD11	2.02	0.42
4:A:3859:TYR:CE1	4:A:4077:TYR:HA	2.55	0.42
5:B:294:GLU:HA	5:B:295:PRO:HD3	1.92	0.42
5:B:351:LYS:HE2	5:B:397:LEU:HD13	2.01	0.42
5:B:428:THR:O	5:B:428:THR:OG1	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:475:ASP:O	6:C:478:PRO:HD3	2.20	0.42
4:S:145:ASP:HA	4:S:148:LYS:NZ	2.34	0.42
4:S:324:SER:HB3	4:S:368:LEU:HB3	2.02	0.42
4:S:1064:TYR:HB3	4:S:1106:ILE:HG21	2.01	0.42
4:S:1719:VAL:O	6:U:594:PRO:HG3	2.19	0.42
4:S:2361:ILE:HD12	4:S:2389:PHE:CE2	2.55	0.42
4:S:2417:SER:HB3	5:T:148:TRP:CD1	2.55	0.42
4:S:2887:PRO:HG3	4:S:3121:LEU:HD11	2.01	0.42
4:S:3319:ASN:O	4:S:3323:PHE:N	2.39	0.42
4:S:3511:ALA:O	4:S:3514:VAL:HG12	2.20	0.42
4:S:3550:LYS:O	4:S:3553:GLU:HG2	2.19	0.42
4:S:4055:ASN:HB2	4:S:4096:SER:N	2.32	0.42
5:T:259:LEU:HB3	5:T:345:LEU:HD23	2.01	0.42
5:T:285:PRO:HB3	6:U:314:PHE:CD2	2.55	0.42
5:T:306:SER:HB3	6:U:288:ASP:HA	2.02	0.42
6:U:80:HIS:CD2	6:U:81:ARG:HH21	2.37	0.42
8:W:32:DT:H2'	8:W:33:DA:C2	2.54	0.42
3:X:140:MET:O	3:X:144:LEU:HG	2.19	0.42
3:Y:57:ARG:O	3:Y:60:GLU:HG2	2.20	0.42
1:K:17:THR:HG23	1:K:19:PHE:CE1	2.54	0.42
1:K:61:MET:HA	3:R:112:LEU:N	2.29	0.42
1:K:101:LEU:HG	3:R:112:LEU:HD13	2.02	0.42
1:L:102:LYS:HD3	1:L:103:ASP:HB2	2.02	0.42
1:O:10:LEU:HD21	1:O:88:PHE:N	2.35	0.42
1:O:69:GLU:O	1:O:72:LYS:HG2	2.20	0.42
1:O:138:GLN:O	1:O:142:GLU:HG2	2.20	0.42
1:O:179:ARG:HD3	2:P:778:PHE:HB3	2.01	0.42
2:P:700:VAL:O	2:P:721:VAL:HG22	2.20	0.42
4:F:110:THR:O	4:F:114:VAL:HG23	2.19	0.42
4:F:645:TRP:H	4:F:645:TRP:HE3	1.68	0.42
4:F:664:SER:HB2	4:F:728:SER:HB2	2.02	0.42
4:F:960:GLN:HE21	4:F:960:GLN:HB2	1.70	0.42
4:F:983:LEU:C	4:F:986:PRO:HD2	2.40	0.42
4:F:1195:VAL:HA	4:F:1198:LEU:HG	2.01	0.42
4:F:1633:TRP:HB2	4:F:1678:LEU:HD21	2.02	0.42
4:F:2413:PHE:HA	4:F:2416:LYS:HB3	2.02	0.42
4:F:3041:LEU:N	4:F:3042:PRO:HD2	2.35	0.42
4:F:3049:LEU:O	4:F:3053:LEU:HG	2.19	0.42
4:F:3235:LYS:HB3	4:F:3239:LYS:NZ	2.35	0.42
4:F:3762:GLN:HB2	4:F:3795:PRO:HD2	2.01	0.42
5:G:164:LYS:NZ	5:G:198:ILE:HG13	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:367:PHE:HB2	6:H:433:TYR:CE2	2.55	0.42
5:G:416:GLN:HB2	5:G:431:GLY:N	2.35	0.42
5:G:512:GLU:HA	5:G:515:ASN:HB3	2.01	0.42
6:H:342:VAL:HG22	6:H:393:VAL:HB	2.02	0.42
8:J:23:DT:H2'	8:J:24:DT:N3	2.35	0.42
4:A:23:ASP:HB2	4:A:69:VAL:HB	2.01	0.42
4:A:1068:LEU:HG	4:A:1106:ILE:HG23	2.02	0.42
4:A:1257:LEU:HD23	4:A:1257:LEU:HA	1.78	0.42
4:A:1301:ILE:HG21	4:A:1337:VAL:HG11	2.02	0.42
4:A:1423:ILE:HG13	4:A:1458:LEU:HD11	2.02	0.42
4:A:1661:PHE:HA	4:A:1665:HIS:HB2	2.01	0.42
4:A:1694:THR:C	4:A:1697:PRO:HD2	2.40	0.42
4:A:1798:LEU:HB3	4:A:1839:PHE:CD1	2.55	0.42
4:A:1868:THR:HA	4:A:1871:MET:CE	2.50	0.42
4:A:2364:LEU:HA	4:A:2367:VAL:HG12	2.01	0.42
4:A:2424:MET:HB2	4:A:2425:ARG:HH12	1.85	0.42
4:A:2586:PHE:HE1	4:A:2780:LEU:O	2.03	0.42
4:A:2851:PHE:HD2	4:A:2854:PHE:HB2	1.84	0.42
4:A:3171:ALA:HA	4:A:3174:ASP:O	2.19	0.42
4:A:3756:GLU:HG2	4:A:4023:LYS:HA	2.01	0.42
4:A:3771:MET:HG2	4:A:3775:LEU:HD12	2.01	0.42
4:A:3881:ASP:OD1	4:A:3969:ASN:HB3	2.19	0.42
4:A:3953:LEU:N	4:A:4068:HIS:HA	2.34	0.42
5:B:48:MET:HB3	5:B:60:PHE:CB	2.49	0.42
5:B:99:PHE:HB2	5:B:102:ILE:HD12	2.01	0.42
5:B:286:ILE:HG22	6:C:313:GLY:O	2.19	0.42
5:B:357:LYS:O	5:B:358:LYS:HG2	2.19	0.42
5:B:516:LYS:HA	5:B:520:SER:H	1.85	0.42
4:S:160:LEU:HD21	4:S:196:LEU:HD21	2.00	0.42
4:S:943:GLY:CA	4:S:2783:ILE:HD12	2.50	0.42
4:S:1064:TYR:HD1	4:S:1107:TYR:CE1	2.38	0.42
4:S:1264:LEU:HA	4:S:1267:TYR:HB2	2.01	0.42
4:S:1289:SER:O	4:S:1293:ALA:HB3	2.19	0.42
4:S:1723:PRO:HG3	6:U:594:PRO:CA	2.49	0.42
4:S:1753:SER:O	4:S:1754:GLN:HG2	2.20	0.42
4:S:2257:PHE:HA	4:S:2260:PHE:CE2	2.55	0.42
4:S:3053:LEU:O	4:S:3188:PHE:HB2	2.19	0.42
4:S:3137:GLU:O	4:S:3185:ASN:HB3	2.20	0.42
4:S:3311:ASN:HB3	4:S:3315:TYR:CE1	2.55	0.42
4:S:3413:TYR:HA	4:S:3416:LEU:HB3	2.01	0.42
4:S:3765:GLU:HB2	4:S:3793:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3828:TYR:HD2	4:S:3879:PRO:HD3	1.84	0.42
4:S:3863:ASN:H	4:S:3866:GLU:CG	2.28	0.42
4:S:3885:ARG:O	4:S:3888:VAL:HG22	2.19	0.42
4:S:3924:HIS:CD2	4:S:3926:ASN:HB2	2.55	0.42
5:T:60:PHE:HD2	5:T:131:PHE:CE2	2.38	0.42
6:U:312:GLN:HB2	6:U:323:PHE:O	2.20	0.42
7:V:43:DT:O5'	7:V:44:DG:N2	2.53	0.42
3:X:211:VAL:HG23	3:X:212:MET:N	2.35	0.42
1:K:180:PHE:HB2	2:M:774:LEU:CD2	2.49	0.42
1:L:49:GLU:O	1:L:53:SER:OG	2.22	0.42
3:Q:76:LEU:HD13	3:Q:119:TRP:CZ2	2.54	0.42
3:Q:163:GLU:O	3:Q:167:TYR:HD1	2.02	0.42
3:R:37:LEU:HD21	3:R:134:HIS:HB2	2.01	0.42
3:R:79:LEU:HD12	3:R:95:PHE:CZ	2.55	0.42
4:F:84:GLU:HA	4:F:87:LYS:HB3	2.00	0.42
4:F:250:ASN:HA	4:F:275:PHE:CZ	2.54	0.42
4:F:279:ALA:O	4:F:322:GLN:NE2	2.33	0.42
4:F:320:LEU:HD13	4:F:368:LEU:CD2	2.50	0.42
4:F:344:GLN:O	4:F:348:ILE:HG12	2.20	0.42
4:F:364:ARG:HB2	4:F:415:GLN:OE1	2.20	0.42
4:F:890:LYS:HE2	4:F:909:VAL:H	1.84	0.42
4:F:993:HIS:CE1	4:F:1038:LYS:HZ2	2.38	0.42
4:F:1034:ARG:HB3	4:F:1085:ILE:HA	2.01	0.42
4:F:1099:PHE:CZ	4:F:1152:ARG:HD3	2.55	0.42
4:F:1343:GLU:O	4:F:1347:THR:HG23	2.20	0.42
4:F:1385:ASN:ND2	4:F:1392:MET:HB3	2.35	0.42
4:F:1670:GLU:HG3	4:F:1671:VAL:HG13	2.02	0.42
4:F:1778:PHE:O	4:F:1781:SER:OG	2.33	0.42
4:F:2136:PRO:HD3	4:F:2170:GLN:HG3	2.02	0.42
4:F:2421:VAL:O	4:F:2425:ARG:HB2	2.20	0.42
4:F:2803:ILE:O	4:F:2807:GLN:HG2	2.20	0.42
4:F:3011:LEU:HA	4:F:3014:CYS:HB3	2.02	0.42
4:F:4098:LEU:HD12	4:F:4102:THR:HB	2.02	0.42
5:G:47:ALA:HB1	5:G:170:THR:HA	2.02	0.42
6:H:660:LYS:HD3	6:H:688:LYS:N	2.31	0.42
6:H:704:PHE:CD2	6:H:708:LYS:HB3	2.54	0.42
7:I:24:DA:H4'	7:I:25:DA:N7	2.34	0.42
8:J:21:DA:C4	8:J:22:DG:N7	2.88	0.42
4:A:100:ILE:HD12	4:A:141:SER:HB2	2.02	0.42
4:A:318:SER:O	4:A:322:GLN:HG2	2.20	0.42
4:A:630:CYS:HA	4:A:633:ILE:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:745:VAL:HA	4:A:748:TYR:CD2	2.55	0.42
4:A:1157:PHE:HE1	4:A:1171:TRP:CG	2.38	0.42
4:A:1528:LEU:HD11	4:A:1571:LEU:HD21	2.02	0.42
4:A:1637:SER:HB2	4:A:1641:THR:OG1	2.20	0.42
4:A:1643:MET:HA	4:A:1688:LEU:HD13	2.01	0.42
4:A:2254:ARG:HA	4:A:2257:PHE:HB3	2.02	0.42
4:A:2413:PHE:HD1	4:A:2416:LYS:HG3	1.85	0.42
4:A:2435:CYS:O	4:A:2439:ILE:HG13	2.20	0.42
4:A:3760:GLN:CD	4:A:3760:GLN:H	2.24	0.42
4:A:3874:ARG:HD2	4:A:4127:TRP:HB3	2.02	0.42
5:B:418:GLU:HB3	5:B:430:PRO:CD	2.49	0.42
6:C:430:LEU:HD23	6:C:430:LEU:HA	1.89	0.42
4:S:698:PRO:HG2	4:S:1443:VAL:HG11	2.02	0.42
4:S:718:MET:HE2	4:S:730:LEU:HB3	2.02	0.42
4:S:1071:ASN:H	4:S:1075:ARG:NH1	2.18	0.42
4:S:1457:GLN:N	4:S:1460:ARG:HH21	2.18	0.42
4:S:1625:HIS:O	4:S:1628:LYS:HG2	2.19	0.42
4:S:1963:GLN:HG2	4:S:2125:TRP:CD2	2.54	0.42
4:S:2149:LEU:O	4:S:2153:THR:HG23	2.20	0.42
4:S:2165:LEU:HD11	4:S:2201:THR:H	1.83	0.42
4:S:2531:LEU:HD22	4:S:2538:ARG:O	2.20	0.42
4:S:2542:LEU:HA	4:S:2545:LEU:HB2	2.01	0.42
4:S:2722:ARG:HD2	4:S:2722:ARG:N	2.35	0.42
4:S:3123:GLN:HG2	4:S:3124:SER:N	2.35	0.42
4:S:3974:MET:HG3	4:S:3979:LEU:N	2.30	0.42
5:T:360:HIS:C	5:T:438:PRO:HB3	2.40	0.42
5:T:433:GLN:HB3	5:T:435:VAL:HG13	2.02	0.42
6:U:42:VAL:HG21	6:U:90:LEU:HB2	2.02	0.42
6:U:181:GLY:N	6:U:476:LEU:HA	2.35	0.42
6:U:656:ASN:ND2	6:U:689:GLU:O	2.53	0.42
7:V:44:DG:C8	7:V:45:DG:C8	3.08	0.42
1:K:32:PHE:CZ	1:K:70:LEU:HD13	2.54	0.42
1:N:56:ALA:HB2	1:N:66:TYR:CG	2.54	0.42
2:P:693:PRO:HB2	2:P:718:HIS:CE1	2.54	0.42
2:P:713:ILE:HG23	2:P:745:HIS:CD2	2.55	0.42
2:P:729:CYS:HA	2:P:736:VAL:HG23	2.01	0.42
3:Q:144:LEU:HG	3:R:214:LEU:HD11	2.01	0.42
4:F:93:LEU:HA	4:F:96:MET:CE	2.50	0.42
4:F:125:ILE:HD12	4:F:125:ILE:H	1.85	0.42
4:F:414:LEU:O	4:F:417:VAL:HG12	2.20	0.42
4:F:977:ASP:OD2	4:F:980:THR:OG1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:1282:LEU:HD23	4:F:1282:LEU:HA	1.84	0.42
4:F:1304:HIS:CE1	4:F:1307:ILE:HG22	2.53	0.42
4:F:1525:CYS:HA	4:F:1528:LEU:HD12	2.02	0.42
4:F:2553:HIS:O	4:F:2557:LEU:HG	2.20	0.42
4:F:2919:ASP:OD1	4:F:2919:ASP:N	2.47	0.42
4:F:2953:THR:HA	4:F:2972:TYR:CE1	2.55	0.42
4:F:3380:ARG:HA	4:F:3383:GLN:HB3	2.00	0.42
4:F:3414:MET:HG2	4:F:3460:GLU:HG2	2.02	0.42
4:F:3455:LYS:HD2	4:F:3489:SER:HA	2.02	0.42
4:F:3496:ILE:HG23	4:F:3499:ILE:HD13	2.00	0.42
4:F:3727:THR:OG1	4:F:3727:THR:O	2.38	0.42
4:F:3762:GLN:HB2	4:F:3795:PRO:CD	2.49	0.42
5:G:128:GLN:O	5:G:132:GLN:HG2	2.19	0.42
5:G:254:ARG:HG2	7:I:34:DC:H4'	2.01	0.42
5:G:289:TYR:HA	6:H:310:ILE:HD13	2.00	0.42
5:G:410:PHE:HB3	5:G:437:LEU:HD12	2.02	0.42
6:H:599:ARG:O	6:H:603:LYS:HG2	2.20	0.42
6:H:620:ILE:HA	6:H:635:SER:HB2	2.01	0.42
6:H:664:GLU:O	6:H:668:ILE:HG23	2.20	0.42
7:I:30:DA:H4'	7:I:31:DA:OP2	2.20	0.42
8:J:27:DT:C5	8:J:28:DA:N6	2.88	0.42
4:A:49:ALA:O	4:A:53:LEU:HG	2.20	0.42
4:A:234:PHE:O	4:A:236:LYS:NZ	2.49	0.42
4:A:286:LEU:O	4:A:290:TYR:HB3	2.19	0.42
4:A:986:PRO:HA	4:A:989:MET:HG3	2.02	0.42
4:A:1100:VAL:O	4:A:1104:LEU:HB3	2.19	0.42
4:A:1264:LEU:HD11	4:A:1344:PHE:CD2	2.54	0.42
4:A:1370:ARG:HG3	4:A:1418:HIS:HE2	1.85	0.42
4:A:1516:GLU:O	4:A:1520:ALA:N	2.53	0.42
4:A:2206:PRO:O	4:A:2210:VAL:HG23	2.20	0.42
4:A:2325:LEU:HA	4:A:2328:ARG:NH1	2.35	0.42
4:A:3176:MET:HA	4:A:3179:TRP:HB2	2.02	0.42
4:A:3577:GLN:HB3	4:A:3625:LEU:HD13	2.02	0.42
5:B:293:ASN:CG	6:C:322:PRO:HB3	2.40	0.42
6:C:29:SER:O	6:C:32:GLU:HG2	2.20	0.42
6:C:111:LEU:O	6:C:115:MET:HG2	2.20	0.42
9:D:28:DT:H2'	9:D:29:DA:C5	2.55	0.42
10:E:21:DA:H3'	10:E:21:DA:N3	2.35	0.42
4:S:583:LEU:HB2	4:S:614:PRO:HA	2.02	0.42
4:S:670:LEU:HB3	4:S:732:PHE:CE1	2.55	0.42
4:S:997:ASN:HA	4:S:1043:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:1173:LEU:HB2	4:S:1191:PHE:CD1	2.54	0.42
4:S:1773:VAL:HG12	4:S:1773:VAL:O	2.20	0.42
4:S:2992:ASP:HB3	4:S:2996:LEU:HD12	2.02	0.42
4:S:3629:ARG:O	4:S:3633:ILE:HG23	2.20	0.42
4:S:3988:LEU:HD12	4:S:3991:PHE:CD2	2.55	0.42
5:T:488:ARG:O	5:T:491:GLU:HG2	2.20	0.42
6:U:641:ALA:O	6:U:644:GLU:HG3	2.20	0.42
3:X:18:LEU:HB2	3:X:95:PHE:O	2.19	0.42
3:Y:106:LEU:HD22	3:Y:121:PHE:HB2	2.01	0.42
1:K:4:LYS:HB3	1:K:75:LEU:O	2.20	0.41
1:L:93:CYS:O	1:L:113:LEU:N	2.52	0.41
1:N:4:LYS:O	1:N:21:GLN:HA	2.19	0.41
2:P:868:ASP:H	2:P:871:ARG:HH21	1.68	0.41
3:Q:179:LEU:HD13	3:R:159:MET:HA	2.02	0.41
3:R:185:GLU:HG2	3:R:188:SER:H	1.85	0.41
4:F:584:GLU:HB2	4:F:613:HIS:HB3	2.02	0.41
4:F:714:VAL:CG2	4:F:733:LEU:HD11	2.50	0.41
4:F:1504:ASP:CG	4:F:1507:CYS:H	2.23	0.41
4:F:2184:TYR:CE1	4:F:2734:ARG:HD2	2.55	0.41
4:F:2295:GLN:NE2	4:F:2298:GLU:OE1	2.52	0.41
4:F:2357:GLU:HA	4:F:2360:PHE:HD2	1.85	0.41
4:F:2508:GLN:HE22	4:F:2547:SER:HB2	1.83	0.41
4:F:2735:ASP:N	4:F:2735:ASP:OD1	2.48	0.41
4:F:2999:LEU:HB2	4:F:3043:TYR:CZ	2.55	0.41
4:F:3922:ASP:HB3	4:F:3928:PHE:CZ	2.54	0.41
5:G:35:ARG:HE	5:G:80:ARG:HB3	1.84	0.41
5:G:93:ASP:HB3	5:G:95:ASN:OD1	2.20	0.41
5:G:416:GLN:OE1	6:H:354:ARG:HD2	2.20	0.41
5:G:440:ALA:HA	5:G:443:LYS:HZ2	1.85	0.41
5:G:459:VAL:HG11	6:H:382:HIS:ND1	2.35	0.41
6:H:182:PRO:HD3	6:H:476:LEU:HD11	2.02	0.41
6:H:619:HIS:O	6:H:631:TYR:OH	2.26	0.41
4:A:273:ARG:NH1	4:A:311:ALA:HA	2.35	0.41
4:A:1003:SER:OG	4:A:1004:GLN:OE1	2.33	0.41
4:A:1875:LYS:O	4:A:1879:VAL:HG13	2.20	0.41
4:A:3195:GLU:O	4:A:3196:LYS:HG3	2.20	0.41
4:A:3335:ARG:HB2	4:A:3422:GLN:HE22	1.83	0.41
4:A:3447:VAL:HG11	4:A:3472:ILE:HD12	2.01	0.41
4:A:3885:ARG:O	4:A:3889:ARG:HG2	2.20	0.41
5:B:74:LYS:HA	5:B:77:SER:OG	2.20	0.41
5:B:387:ILE:HG22	5:B:388:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B:455:THR:OG1	5:B:458:GLN:HB2	2.19	0.41
6:C:122:THR:HA	6:C:127:PHE:CD2	2.54	0.41
4:S:146:GLU:HA	4:S:149:ILE:HG23	2.01	0.41
4:S:293:LEU:HA	4:S:296:VAL:HG12	2.02	0.41
4:S:491:CYS:SG	4:S:622:ALA:HB1	2.60	0.41
4:S:799:TYR:O	4:S:803:SER:HB3	2.19	0.41
4:S:1137:ILE:HD12	4:S:1141:LYS:HZ3	1.84	0.41
4:S:1154:PRO:HG3	4:S:1157:PHE:HD2	1.85	0.41
4:S:1336:THR:O	4:S:1340:ARG:HG2	2.20	0.41
4:S:1751:GLU:O	4:S:1788:ARG:NH1	2.54	0.41
4:S:2202:PRO:O	4:S:2209:GLU:HG2	2.20	0.41
4:S:2468:THR:OG1	4:S:2469:CYS:N	2.53	0.41
4:S:2745:ARG:HA	4:S:2749:ALA:HB2	2.02	0.41
4:S:2942:ILE:O	4:S:2947:ILE:HB	2.19	0.41
4:S:3186:ARG:O	4:S:3189:PHE:HB2	2.20	0.41
4:S:3265:GLU:HB2	4:S:3272:TRP:CD1	2.55	0.41
4:S:3454:LEU:HD11	4:S:3462:ARG:HG2	2.02	0.41
4:S:3533:PHE:HD2	4:S:3572:ILE:HD12	1.84	0.41
5:T:42:VAL:HB	5:T:48:MET:HE1	2.02	0.41
5:T:58:THR:OG1	5:T:61:ASP:OD2	2.37	0.41
5:T:62:MET:HE3	5:T:205:LEU:HD11	2.02	0.41
5:T:392:LYS:HB2	6:U:458:ILE:HD12	2.01	0.41
5:T:435:VAL:HG11	6:U:353:ARG:O	2.20	0.41
5:T:444:ARG:HH12	6:U:368:ARG:CZ	2.33	0.41
6:U:602:VAL:HG11	6:U:642:PHE:CE1	2.56	0.41
7:V:39:DA:H2''	7:V:40:DT:O4'	2.20	0.41
3:X:210:PHE:HB2	3:Y:144:LEU:HD13	2.02	0.41
3:Y:137:ARG:HB3	3:Y:138:PRO:HD3	2.02	0.41
1:L:118:ASN:ND2	1:L:121:GLU:HG2	2.35	0.41
2:M:864:ILE:HD11	2:M:893:TRP:CZ3	2.56	0.41
2:M:889:LEU:HD13	2:M:893:TRP:CE2	2.54	0.41
1:N:162:PHE:O	1:N:166:VAL:HG22	2.20	0.41
3:Q:146:LEU:CB	3:R:146:LEU:HB3	2.50	0.41
3:Q:216:ASP:OD1	3:Q:216:ASP:N	2.52	0.41
3:R:93:ALA:HB2	3:R:111:GLU:HG2	2.02	0.41
4:F:74:ASN:HA	4:F:79:ARG:NE	2.35	0.41
4:F:307:GLU:O	4:F:310:LYS:HG3	2.20	0.41
4:F:1051:LYS:HE3	4:F:1051:LYS:HB3	1.83	0.41
4:F:1394:HIS:O	4:F:1398:VAL:HG12	2.20	0.41
4:F:1419:LEU:HD21	4:F:1458:LEU:HD11	2.02	0.41
4:F:1430:GLU:OE1	4:F:1430:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2253:TYR:HA	4:F:2256:ILE:HB	2.02	0.41
4:F:2311:ARG:HD2	4:F:2312:TYR:HB2	2.02	0.41
4:F:2428:ASP:HB2	4:F:2431:ARG:HG3	2.01	0.41
4:F:3324:ARG:NH2	4:F:3409:VAL:HG22	2.32	0.41
4:F:3575:LEU:HB3	4:F:3685:PRO:CA	2.50	0.41
4:F:3809:THR:OG1	4:F:3810:VAL:N	2.53	0.41
4:F:4003:ASP:HA	4:F:4007:LYS:HA	2.02	0.41
4:F:4059:ILE:HA	4:F:4062:ASP:OD2	2.18	0.41
5:G:69:SER:HA	5:G:245:LYS:HD3	2.01	0.41
5:G:90:THR:HG21	5:G:93:ASP:HA	2.01	0.41
5:G:264:ASN:HD21	5:G:266:ASP:HB2	1.85	0.41
5:G:303:PHE:C	6:H:290:GLN:H	2.23	0.41
5:G:453:MET:CE	6:H:382:HIS:HB2	2.50	0.41
6:H:43:GLN:OE1	6:H:495:LEU:HD21	2.20	0.41
6:H:400:ARG:NH1	8:J:34:DT:O5'	2.53	0.41
6:H:450:GLN:HA	6:H:537:PHE:HZ	1.86	0.41
6:H:607:ALA:HB3	6:H:609:PHE:CE2	2.55	0.41
7:I:23:DT:OP2	7:I:24:DA:N6	2.52	0.41
8:J:13:DA:H5''	8:J:13:DA:C8	2.54	0.41
4:A:359:LEU:O	4:A:363:ILE:HG12	2.20	0.41
4:A:653:LEU:HD11	4:A:669:LEU:HG	2.01	0.41
4:A:898:PHE:CZ	4:A:2566:THR:HG22	2.55	0.41
4:A:1027:ASP:HB3	4:A:1031:ARG:NH1	2.34	0.41
4:A:1359:LEU:O	4:A:1360:LYS:HB2	2.20	0.41
4:A:1723:PRO:HB2	4:A:1724:MET:H	1.74	0.41
4:A:2190:VAL:HA	4:A:2193:ILE:HD12	2.02	0.41
4:A:2220:MET:HE3	4:A:2255:LEU:HD12	2.02	0.41
4:A:2452:ARG:HD2	4:A:2494:ASP:OD1	2.20	0.41
4:A:2865:HIS:HD1	4:A:2868:LEU:HD12	1.85	0.41
4:A:3617:LEU:HB2	4:A:3629:ARG:HH22	1.85	0.41
4:A:3863:ASN:HB3	4:A:3866:GLU:HG2	2.01	0.41
4:A:3884:LYS:NZ	4:A:3973:PRO:HD3	2.35	0.41
5:B:523:ASP:HA	5:B:526:LYS:HE2	2.01	0.41
6:C:500:HIS:ND1	6:C:503:GLU:HG3	2.36	0.41
10:E:32:DT:H4'	10:E:33:DA:H2'	2.01	0.41
4:S:115:TYR:HB3	4:S:155:LYS:NZ	2.35	0.41
4:S:883:TYR:HE2	4:S:3900:LEU:HD22	1.85	0.41
4:S:932:GLU:OE2	4:S:2773:ARG:N	2.52	0.41
4:S:1021:VAL:N	4:S:1026:ARG:HH12	2.18	0.41
4:S:1191:PHE:HZ	4:S:1208:LEU:HD13	1.85	0.41
4:S:1328:GLU:HB3	4:S:1386:ILE:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2168:LEU:HA	4:S:2171:LEU:HD21	2.02	0.41
4:S:2402:LEU:HD22	4:S:2434:VAL:HA	2.02	0.41
4:S:3065:ILE:HG23	4:S:3078:LEU:HD11	2.02	0.41
4:S:3090:TYR:HD2	4:S:3095:ASP:HB3	1.84	0.41
4:S:3269:ARG:HE	4:S:3271:ASP:HB2	1.83	0.41
4:S:3562:LEU:HD13	4:S:3568:ILE:HD12	2.01	0.41
4:S:3783:GLN:HB3	4:S:3986:HIS:HD2	1.85	0.41
4:S:3795:PRO:HA	4:S:3801:GLY:HA2	2.01	0.41
5:T:143:LEU:HD23	5:T:143:LEU:HA	1.95	0.41
5:T:171:ASN:HA	5:T:206:LYS:HB2	2.02	0.41
5:T:428:THR:HG21	6:U:354:ARG:CZ	2.50	0.41
6:U:247:TRP:CH2	6:U:340:PHE:HB2	2.55	0.41
6:U:484:ASN:O	6:U:488:GLN:HG2	2.20	0.41
6:U:611:GLU:OE1	6:U:611:GLU:N	2.42	0.41
8:W:22:DG:H1'	8:W:23:DT:C5	2.55	0.41
3:Y:146:LEU:O	3:Y:150:VAL:HG23	2.19	0.41
1:N:6:SER:OG	1:N:20:LEU:O	2.38	0.41
1:N:51:GLU:HB3	1:N:110:SER:OG	2.21	0.41
1:N:66:TYR:CE2	1:N:70:LEU:HD11	2.55	0.41
2:P:707:ILE:HA	2:P:710:LYS:HE2	2.02	0.41
4:F:155:LYS:HZ2	4:F:156:PHE:HE1	1.67	0.41
4:F:160:LEU:HD21	4:F:224:LEU:HD11	2.03	0.41
4:F:224:LEU:O	4:F:227:LEU:HB3	2.21	0.41
4:F:419:SER:O	4:F:422:LEU:HB3	2.19	0.41
4:F:475:LEU:O	4:F:479:ILE:HG12	2.19	0.41
4:F:569:VAL:HG13	4:F:649:PHE:CZ	2.54	0.41
4:F:853:ILE:HG22	4:F:854:ARG:NH2	2.35	0.41
4:F:908:ASP:O	4:F:912:PRO:HD3	2.20	0.41
4:F:1041:ILE:HG13	4:F:1049:GLN:HE22	1.85	0.41
4:F:1151:ARG:HG2	4:F:1163:LEU:HB2	2.02	0.41
4:F:2220:MET:HA	4:F:2223:VAL:HG12	2.02	0.41
4:F:2324:GLY:HA2	4:F:2367:VAL:HG23	2.02	0.41
4:F:2865:HIS:HB2	4:F:2868:LEU:HD23	2.02	0.41
4:F:2925:GLU:O	4:F:2929:LEU:HG	2.19	0.41
4:F:3239:LYS:HD2	4:F:3272:TRP:CH2	2.55	0.41
4:F:3324:ARG:HD2	4:F:3392:ALA:HB3	2.02	0.41
4:F:3639:GLU:HB3	4:F:3667:LEU:HD11	2.02	0.41
5:G:430:PRO:HG3	6:H:438:LEU:HB2	2.03	0.41
6:H:50:ASN:OD1	6:H:50:ASN:N	2.53	0.41
4:A:394:GLN:HE21	4:A:1741:ASP:CG	2.24	0.41
4:A:730:LEU:HD23	4:A:730:LEU:HA	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1299:GLU:HB3	4:A:1304:HIS:CE1	2.55	0.41
4:A:1428:ILE:H	4:A:1428:ILE:HG13	1.70	0.41
4:A:1633:TRP:HH2	4:A:1671:VAL:HG22	1.85	0.41
4:A:1640:GLU:HG2	4:A:1641:THR:N	2.35	0.41
4:A:2220:MET:HA	4:A:2223:VAL:HG12	2.01	0.41
4:A:2796:ALA:HA	4:A:2799:GLN:NE2	2.35	0.41
4:A:3232:ARG:NH2	4:A:3265:GLU:HA	2.33	0.41
5:B:94:LYS:HB3	5:B:103:TYR:HA	2.02	0.41
5:B:94:LYS:HG3	5:B:104:VAL:H	1.85	0.41
5:B:400:TYR:CE2	5:B:402:PRO:HD3	2.54	0.41
5:B:474:ARG:HA	5:B:474:ARG:HD2	1.86	0.41
6:C:10:VAL:HB	6:C:54:ILE:HG22	2.02	0.41
6:C:57:VAL:HG11	6:C:113:VAL:HB	2.02	0.41
6:C:208:VAL:HA	6:C:211:VAL:HG12	2.02	0.41
6:C:245:ILE:HG21	10:E:35:DT:H5'	2.03	0.41
6:C:404:GLN:OE1	6:C:421:TYR:OH	2.38	0.41
9:D:23:DT:O2	9:D:23:DT:H5''	2.20	0.41
4:S:116:THR:HB	6:U:301:ASP:HB3	2.02	0.41
4:S:346:TYR:HA	4:S:349:ILE:HB	2.01	0.41
4:S:406:ARG:O	4:S:410:MET:HG2	2.19	0.41
4:S:1491:ILE:HD13	4:S:1558:TYR:CD2	2.55	0.41
4:S:1949:ILE:HG23	4:S:2100:LEU:HB2	2.03	0.41
4:S:2328:ARG:HD3	4:S:2371:PHE:HA	2.02	0.41
4:S:2427:ARG:HH12	4:S:2464:HIS:CD2	2.38	0.41
4:S:3583:LEU:HD11	4:S:3734:ARG:HD3	2.01	0.41
4:S:3911:ILE:HG22	4:S:3915:HIS:HD2	1.85	0.41
5:T:478:PHE:CZ	6:U:392:ILE:HD12	2.55	0.41
5:T:490:LEU:HG	6:U:321:VAL:HB	2.01	0.41
6:U:10:VAL:HG13	6:U:131:HIS:HD2	1.85	0.41
6:U:20:MET:HG3	6:U:21:SER:N	2.35	0.41
6:U:111:LEU:HA	6:U:114:SER:HB2	2.02	0.41
3:X:204:ILE:HG13	3:Y:140:MET:HE1	2.02	0.41
1:K:145:GLN:HA	1:K:148:ASN:HB3	2.02	0.41
1:K:172:LEU:HD21	1:L:173:GLU:CD	2.40	0.41
2:M:664:PHE:CD1	2:M:682:ILE:HD11	2.55	0.41
2:M:682:ILE:HD12	2:M:682:ILE:HA	1.94	0.41
2:M:682:ILE:HG23	2:M:687:GLY:O	2.20	0.41
2:M:865:ILE:HB	2:M:869:HIS:HD2	1.84	0.41
1:N:131:LEU:HD22	1:O:130:CYS:SG	2.60	0.41
2:P:796:ILE:O	2:P:797:ALA:C	2.58	0.41
3:Q:4:LEU:HD23	3:Q:28:PHE:CE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:133:GLN:O	3:R:218:TYR:OH	2.38	0.41
4:F:108:LYS:NZ	4:F:148:LYS:HE2	2.35	0.41
4:F:364:ARG:HG3	4:F:368:LEU:HD23	2.02	0.41
4:F:370:ALA:HA	4:F:423:TYR:CZ	2.55	0.41
4:F:1010:LEU:HA	4:F:1013:ILE:HG12	2.02	0.41
4:F:1367:HIS:O	4:F:1371:VAL:HG22	2.20	0.41
4:F:1403:MET:HA	4:F:1406:LEU:HD12	2.03	0.41
4:F:2223:VAL:HG13	4:F:2223:VAL:O	2.19	0.41
4:F:2389:PHE:CE2	4:F:2397:CYS:HB2	2.54	0.41
4:F:2420:PHE:HA	4:F:2423:VAL:HG12	2.02	0.41
4:F:3066:ASP:HA	4:F:3069:MET:CE	2.50	0.41
5:G:262:LYS:O	5:G:346:MET:HA	2.21	0.41
6:H:315:ARG:HD2	6:H:319:ASP:O	2.20	0.41
6:H:390:VAL:HG23	6:H:392:ILE:HG23	2.02	0.41
6:H:665:LYS:HA	6:H:668:ILE:HG12	2.02	0.41
6:H:677:ILE:HG13	6:H:680:GLN:NE2	2.35	0.41
7:I:21:DA:H2''	7:I:22:DA:O5'	2.18	0.41
7:I:40:DT:C6	7:I:41:DT:N3	2.88	0.41
4:A:649:PHE:HE2	4:A:669:LEU:HD21	1.85	0.41
4:A:698:PRO:HB2	4:A:1442:GLN:HB2	2.01	0.41
4:A:941:MET:SD	4:A:942:LEU:HD22	2.61	0.41
4:A:1482:GLU:O	4:A:1486:LEU:HB2	2.21	0.41
4:A:2135:ASN:O	4:A:2138:VAL:HG22	2.20	0.41
4:A:2472:GLN:NE2	4:A:2472:GLN:O	2.53	0.41
4:A:3381:ALA:HB3	4:A:3419:PHE:CZ	2.55	0.41
4:A:3490:VAL:HG21	4:A:3493:TRP:CE2	2.54	0.41
4:A:3512:VAL:H	4:A:3550:LYS:HD2	1.85	0.41
4:A:3530:VAL:HG21	4:A:3702:PRO:HB3	2.02	0.41
4:A:3610:TYR:HA	4:A:3613:MET:HE1	2.01	0.41
4:A:3778:ASP:OD1	4:A:3787:GLN:HB2	2.20	0.41
4:A:3784:ARG:HB2	4:A:3986:HIS:HB3	2.02	0.41
4:A:4075:ARG:NH2	4:A:4078:VAL:HG21	2.36	0.41
5:B:327:ILE:HD11	6:C:88:PHE:CE2	2.56	0.41
5:B:417:GLU:HB3	6:C:439:LYS:NZ	2.35	0.41
6:C:345:PHE:HA	6:C:391:ALA:HA	2.01	0.41
6:C:500:HIS:CE1	6:C:502:ARG:HB2	2.56	0.41
10:E:22:DG:H1'	10:E:23:DT:C4	2.55	0.41
10:E:28:DA:N6	10:E:30:DT:O5'	2.54	0.41
4:S:231:LEU:HA	4:S:234:PHE:CE1	2.56	0.41
4:S:524:TYR:HA	4:S:527:TYR:CD2	2.46	0.41
4:S:684:GLU:HA	4:S:739:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:781:ASP:O	4:S:784:VAL:HG12	2.21	0.41
4:S:832:LYS:C	4:S:834:LEU:H	2.24	0.41
4:S:897:PRO:HB2	4:S:2570:PRO:HG2	2.03	0.41
4:S:1366:THR:HG22	4:S:1369:MET:H	1.85	0.41
4:S:1576:ASP:HB2	4:S:1625:HIS:NE2	2.35	0.41
4:S:2303:LEU:HB2	4:S:2323:LEU:HD21	2.02	0.41
4:S:2587:GLN:O	4:S:2776:ARG:HA	2.21	0.41
4:S:2897:LEU:HD11	4:S:2923:TRP:CD2	2.54	0.41
4:S:3238:MET:HE2	4:S:3238:MET:HB3	1.87	0.41
4:S:3334:TYR:CD1	4:S:3359:ILE:HD11	2.55	0.41
4:S:3884:LYS:HA	4:S:3887:PHE:CD2	2.55	0.41
5:T:100:LYS:HA	5:T:100:LYS:HD2	1.87	0.41
5:T:194:ARG:NH2	5:T:200:LEU:HD23	2.36	0.41
5:T:268:VAL:HG23	5:T:375:VAL:HG21	2.01	0.41
5:T:300:THR:HB	6:U:293:THR:HG22	2.03	0.41
6:U:10:VAL:HG13	6:U:131:HIS:CD2	2.55	0.41
6:U:279:VAL:HA	6:U:289:ILE:HB	2.01	0.41
6:U:616:LEU:HD21	6:U:642:PHE:CB	2.50	0.41
8:W:21:DA:C5	8:W:22:DG:N1	2.88	0.41
8:W:24:DT:H6	8:W:24:DT:H2'	1.62	0.41
3:X:44:VAL:HG21	3:Y:136:ILE:HG21	2.03	0.41
1:K:8:ILE:HG12	1:K:86:PHE:HB2	2.02	0.41
1:K:55:GLU:OE1	1:K:107:ARG:HG3	2.21	0.41
1:K:192:ARG:HG3	2:M:766:PHE:CD1	2.55	0.41
1:L:42:ALA:H	1:L:119:PRO:HA	1.85	0.41
2:M:809:PRO:HB2	2:M:901:CYS:O	2.19	0.41
2:M:820:LEU:CD2	2:M:822:SER:HB2	2.50	0.41
2:P:681:ARG:HA	2:P:684:GLU:OE1	2.20	0.41
2:P:841:LYS:NZ	2:P:891:GLU:HG3	2.36	0.41
3:Q:33:GLY:HA3	3:Q:50:ASP:HA	2.02	0.41
3:Q:179:LEU:O	3:R:159:MET:HB3	2.20	0.41
3:R:38:VAL:HG11	3:R:104:LEU:HD13	2.02	0.41
4:F:79:ARG:HB3	4:F:124:LYS:NZ	2.35	0.41
4:F:116:THR:HB	6:H:300:ASP:O	2.19	0.41
4:F:452:LYS:O	4:F:456:VAL:HG23	2.21	0.41
4:F:865:GLN:NE2	4:F:3171:ALA:H	2.06	0.41
4:F:1636:ASP:N	4:F:1636:ASP:OD1	2.53	0.41
4:F:1840:PHE:O	4:F:1844:VAL:HG23	2.20	0.41
4:F:1954:CYS:SG	4:F:1955:VAL:HG23	2.59	0.41
4:F:2150:VAL:O	4:F:2154:GLU:N	2.53	0.41
4:F:2253:TYR:HD2	4:F:2291:GLN:NE2	2.14	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2821:ASP:N	4:F:2821:ASP:OD1	2.52	0.41
4:F:3051:LEU:O	4:F:3054:GLN:HG2	2.20	0.41
4:F:3478:GLU:O	4:F:3482:LEU:HG	2.21	0.41
4:F:3811:THR:HA	4:F:3929:MET:HA	2.01	0.41
4:F:3837:CYS:SG	4:F:3874:ARG:HD2	2.61	0.41
6:H:189:GLY:C	6:H:228:SER:HB3	2.41	0.41
6:H:484:ASN:HD21	6:H:486:ARG:HB3	1.85	0.41
4:A:146:GLU:HB2	4:A:183:GLU:HA	2.03	0.41
4:A:232:CYS:HB3	4:A:278:HIS:CD2	2.56	0.41
4:A:295:GLU:HB3	4:A:299:LYS:NZ	2.35	0.41
4:A:567:GLU:HA	4:A:570:LYS:HG2	2.03	0.41
4:A:975:ASP:HB3	4:A:980:THR:HB	2.02	0.41
4:A:1097:GLU:OE2	4:A:1098:GLN:NE2	2.53	0.41
4:A:1147:LYS:HB2	4:A:1149:LYS:NZ	2.34	0.41
4:A:1395:LEU:HA	4:A:1398:VAL:HG22	2.02	0.41
4:A:1568:ASN:OD1	4:A:1569:THR:N	2.53	0.41
4:A:1747:LEU:HD23	4:A:1747:LEU:HA	1.89	0.41
4:A:1851:LEU:HA	4:A:1870:LYS:HG2	2.02	0.41
4:A:1852:LYS:HD2	4:A:1852:LYS:HA	1.80	0.41
4:A:2126:MET:HA	4:A:2129:LEU:HD12	2.03	0.41
4:A:2208:ASP:OD1	4:A:2209:GLU:N	2.54	0.41
4:A:2309:PHE:O	4:A:2315:VAL:HG21	2.20	0.41
4:A:2379:MET:N	4:A:2379:MET:SD	2.94	0.41
4:A:2893:LEU:O	4:A:2897:LEU:HD23	2.21	0.41
4:A:3274:VAL:O	4:A:3278:GLN:HG2	2.21	0.41
4:A:3487:ILE:HG21	4:A:3502:MET:HE1	2.03	0.41
4:A:3699:LEU:HD12	4:A:3699:LEU:HA	1.92	0.41
5:B:255:ALA:HB3	5:B:274:TYR:CD1	2.55	0.41
5:B:279:LYS:HB2	6:C:429:ASP:OD1	2.20	0.41
5:B:363:ARG:HH11	6:C:268:LEU:HG	1.86	0.41
5:B:367:PHE:CE1	5:B:416:GLN:HB3	2.54	0.41
6:C:293:THR:HG21	6:C:307:LYS:HE3	2.02	0.41
10:E:14:DT:H1'	10:E:15:DA:N1	2.35	0.41
4:S:217:LEU:HA	4:S:221:ALA:HB3	2.03	0.41
4:S:301:CYS:HB3	4:S:312:ALA:HB3	2.01	0.41
4:S:1138:ILE:O	4:S:1142:HIS:HB3	2.21	0.41
4:S:1293:ALA:HB1	4:S:1297:PHE:CZ	2.55	0.41
4:S:1376:LEU:HD23	4:S:1399:CYS:HB3	2.01	0.41
4:S:1626:TRP:CE2	4:S:1671:VAL:HG23	2.55	0.41
4:S:2525:TRP:CE3	4:S:2545:LEU:HD13	2.55	0.41
4:S:3963:LEU:HD22	4:S:4108:MET:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:36:ASP:OD1	5:T:37:SER:N	2.52	0.41
5:T:131:PHE:HB3	5:T:135:MET:HE3	2.03	0.41
6:U:342:VAL:HG12	6:U:344:GLY:H	1.86	0.41
7:V:40:DT:O4'	8:W:19:DA:H2	2.03	0.41
3:Y:43:GLN:HE21	3:Y:125:LEU:HD13	1.85	0.41
1:K:94:TYR:CE2	1:K:110:SER:HB2	2.56	0.41
2:M:739:GLN:HB3	2:M:741:ARG:NH1	2.35	0.41
1:N:4:LYS:HG2	1:N:75:LEU:HD22	2.03	0.41
1:N:140:LYS:HZ3	1:N:144:LEU:HD21	1.86	0.41
1:N:161:ARG:HG2	2:P:840:ILE:HG22	2.01	0.41
1:N:169:LYS:HB3	2:P:847:PHE:HZ	1.86	0.41
2:P:757:GLU:HG3	2:P:758:TYR:CD2	2.55	0.41
2:P:787:GLN:HB3	2:P:791:GLU:OE2	2.20	0.41
2:P:814:ARG:NE	2:P:849:GLY:HA3	2.35	0.41
3:R:46:HIS:HB3	3:R:126:ALA:HA	2.02	0.41
4:F:241:ASP:O	4:F:244:THR:HG22	2.21	0.41
4:F:531:PHE:HA	4:F:534:LEU:HD12	2.02	0.41
4:F:537:SER:OG	4:F:560:LEU:HD21	2.20	0.41
4:F:782:ARG:HB3	4:F:3164:TRP:CZ3	2.55	0.41
4:F:919:LEU:HB2	4:F:968:VAL:HG21	2.01	0.41
4:F:1039:TRP:O	4:F:1043:GLN:HG2	2.20	0.41
4:F:1407:LYS:O	4:F:1412:LYS:HD2	2.20	0.41
4:F:2142:ILE:HD13	4:F:2145:PHE:CD2	2.56	0.41
4:F:3113:ASN:O	4:F:3117:ILE:N	2.45	0.41
4:F:3133:GLN:O	4:F:3137:GLU:HG2	2.20	0.41
4:F:3281:CYS:HB3	4:F:3329:LEU:HD13	2.03	0.41
4:F:3481:SER:O	4:F:3485:LYS:HG2	2.21	0.41
4:F:3556:ALA:O	4:F:3559:LYS:HG2	2.19	0.41
4:F:3660:ASN:O	4:F:3664:ASN:ND2	2.53	0.41
4:F:3886:ALA:O	4:F:3890:MET:HG3	2.19	0.41
4:F:4079:ALA:O	4:F:4083:GLY:N	2.54	0.41
5:G:40:PHE:CZ	5:G:71:TYR:HE1	2.38	0.41
5:G:50:GLU:HG2	5:G:171:ASN:HD22	1.85	0.41
5:G:114:LYS:HG3	5:G:115:ARG:N	2.34	0.41
5:G:190:ALA:HA	5:G:193:LEU:HG	2.02	0.41
5:G:288:LEU:N	6:H:311:ILE:O	2.35	0.41
5:G:340:PHE:HB2	5:G:408:PRO:HD3	2.03	0.41
5:G:380:THR:O	5:G:383:SER:OG	2.25	0.41
6:H:346:CYS:SG	6:H:347:LYS:N	2.94	0.41
6:H:413:LYS:HZ3	6:H:415:ASN:HB2	1.85	0.41
6:H:488:GLN:CG	6:H:512:ILE:HG12	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:300:TRP:HB3	4:A:312:ALA:HB2	2.02	0.41
4:A:440:VAL:HG12	4:A:441:MET:CE	2.50	0.41
4:A:913:ARG:HA	4:A:913:ARG:HD2	1.80	0.41
4:A:1104:LEU:O	4:A:1108:MET:HG2	2.19	0.41
4:A:1112:ALA:HB1	4:A:1180:GLN:NE2	2.35	0.41
4:A:1205:ASN:HA	4:A:1275:THR:HA	2.03	0.41
4:A:1468:LEU:HG	4:A:1477:HIS:HE1	1.85	0.41
4:A:2844:LEU:HD22	4:A:2875:ALA:HB1	2.03	0.41
4:A:3470:GLN:HG3	4:A:3474:ARG:NH2	2.35	0.41
4:A:3571:PHE:HE2	4:A:3801:GLY:H	1.67	0.41
4:A:3820:MET:O	4:A:3825:LYS:HE2	2.21	0.41
4:A:3838:GLU:HB3	4:A:3874:ARG:HG2	2.03	0.41
4:A:3907:SER:HB2	4:A:3937:VAL:H	1.85	0.41
6:C:146:GLN:HB2	6:C:149:ILE:HD11	2.03	0.41
6:C:432:GLN:HG3	6:C:434:MET:SD	2.61	0.41
4:S:12:LEU:HA	4:S:15:LEU:HB2	2.01	0.41
4:S:175:TYR:HA	4:S:223:CYS:HA	2.02	0.41
4:S:861:SER:HB2	4:S:3167:ARG:HG3	2.02	0.41
4:S:1100:VAL:O	4:S:1104:LEU:N	2.48	0.41
4:S:1636:ASP:OD1	4:S:1636:ASP:N	2.52	0.41
4:S:1820:VAL:HG11	4:S:1876:ILE:HD13	2.01	0.41
4:S:1877:LEU:O	4:S:1880:MET:HE2	2.21	0.41
4:S:1963:GLN:HG2	4:S:2125:TRP:CE3	2.56	0.41
4:S:2362:VAL:HG22	4:S:2396:LEU:HD11	2.02	0.41
4:S:2538:ARG:HE	4:S:2565:MET:CE	2.33	0.41
4:S:3617:LEU:O	4:S:3637:GLY:HA3	2.20	0.41
4:S:3686:TRP:CZ3	4:S:3719:ILE:HB	2.56	0.41
4:S:3772:ASN:O	4:S:3775:LEU:HB2	2.20	0.41
4:S:3949:ALA:CB	4:S:4064:LEU:HA	2.48	0.41
5:T:88:TYR:HD2	5:T:141:TYR:HB2	1.84	0.41
5:T:355:LEU:O	5:T:357:LYS:HG3	2.20	0.41
5:T:370:PRO:HD3	5:T:382:PHE:HE2	1.86	0.41
5:T:449:THR:HG22	6:U:371:GLU:HG3	2.02	0.41
5:T:480:ASN:N	6:U:428:GLU:OE2	2.43	0.41
6:U:39:THR:O	6:U:42:VAL:HG12	2.21	0.41
6:U:353:ARG:HA	6:U:356:PHE:CD2	2.55	0.41
6:U:617:ILE:HG23	6:U:665:LYS:HE3	2.03	0.41
8:W:19:DA:H2''	8:W:20:DT:C6	2.54	0.41
3:X:8:LEU:HA	3:X:10:MET:HE3	2.03	0.41
1:K:28:LEU:HD12	1:K:71:ARG:NH1	2.36	0.41
1:K:70:LEU:O	1:K:74:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:847:PHE:CD2	2:M:898:ILE:HG12	2.56	0.41
1:N:28:LEU:HB2	1:N:71:ARG:CZ	2.51	0.41
3:Q:38:VAL:HB	3:Q:104:LEU:HD23	2.02	0.41
4:F:243:GLN:OE1	4:F:246:ARG:NH1	2.53	0.41
4:F:428:PRO:HB2	4:F:431:TYR:HD2	1.83	0.41
4:F:623:PHE:CZ	4:F:663:ILE:HG23	2.56	0.41
4:F:933:LEU:HD23	4:F:2797:VAL:HG11	2.02	0.41
4:F:1181:THR:HB	4:F:1258:ASP:O	2.21	0.41
4:F:1837:ARG:HD2	4:F:1837:ARG:HA	1.90	0.41
4:F:2412:TYR:CZ	4:F:2450:GLU:HB3	2.55	0.41
4:F:2544:SER:O	4:F:2842:ARG:NH2	2.54	0.41
4:F:2585:GLU:HB2	4:F:2778:GLY:HA3	2.02	0.41
4:F:2930:TYR:HD1	4:F:2933:ILE:HD11	1.85	0.41
4:F:3121:LEU:O	4:F:3125:ARG:HG3	2.21	0.41
4:F:3755:GLY:HA2	4:F:3799:ARG:HA	2.03	0.41
4:F:3962:ARG:NH1	4:F:4125:GLU:HB3	2.24	0.41
4:F:4046:TYR:O	4:F:4050:LYS:HG3	2.20	0.41
5:G:62:MET:SD	5:G:63:SER:N	2.93	0.41
5:G:91:GLU:N	5:G:135:MET:SD	2.91	0.41
6:H:524:THR:O	6:H:527:GLN:HG2	2.20	0.41
6:H:623:PHE:HB2	6:H:631:TYR:CE2	2.54	0.41
7:I:29:DA:N3	7:I:29:DA:H2'	2.36	0.41
4:A:36:ARG:NE	4:A:2426:HIS:HA	2.35	0.41
4:A:291:VAL:HG23	4:A:292:SER:H	1.85	0.41
4:A:727:ALA:HB2	4:A:765:LEU:HD11	2.03	0.41
4:A:741:ILE:HA	4:A:748:TYR:CE2	2.56	0.41
4:A:859:LEU:HB3	4:A:867:ASN:CG	2.41	0.41
4:A:931:CYS:HB3	4:A:983:LEU:CD2	2.50	0.41
4:A:1642:LYS:HA	4:A:1645:VAL:HG12	2.03	0.41
4:A:3107:ILE:HD13	4:A:3135:LEU:HD13	2.03	0.41
5:B:204:HIS:HD2	5:B:213:ILE:H	1.69	0.41
5:B:343:PRO:HG3	5:B:404:ARG:CA	2.50	0.41
5:B:443:LYS:HG2	5:B:445:LYS:HG2	2.02	0.41
5:B:499:GLU:OE1	6:C:331:MET:HA	2.21	0.41
4:S:23:ASP:OD1	4:S:70:ARG:NH1	2.54	0.41
4:S:748:TYR:HB2	4:S:776:TRP:CZ2	2.56	0.41
4:S:915:THR:HG22	4:S:934:LEU:HD11	2.03	0.41
4:S:1331:ASN:HD22	4:S:1334:LYS:HE3	1.85	0.41
4:S:1611:GLN:HB2	4:S:1613:HIS:ND1	2.36	0.41
4:S:2277:LEU:HD23	4:S:2277:LEU:HA	1.86	0.41
4:S:2294:ILE:HD12	4:S:2299:TYR:CE2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:2973:ASP:O	4:S:2976:LEU:HG	2.21	0.41
4:S:3041:LEU:HD11	4:S:3064:PHE:HE1	1.86	0.41
4:S:3257:LYS:HG3	4:S:3258:LEU:HD22	2.03	0.41
4:S:3772:ASN:HA	4:S:3775:LEU:HG	2.03	0.41
4:S:3778:ASP:OD1	4:S:3779:SER:N	2.52	0.41
4:S:3920:ILE:HG22	4:S:3922:ASP:H	1.86	0.41
5:T:163:HIS:CE1	5:T:165:ARG:HH21	2.38	0.41
5:T:287:LYS:HB2	5:T:296:VAL:O	2.21	0.41
5:T:403:ARG:CZ	8:W:29:DG:H5'	2.51	0.41
5:T:463:LYS:HG2	6:U:383:ALA:HB1	2.02	0.41
5:T:479:GLU:OE1	6:U:427:MET:HE3	2.21	0.41
6:U:372:ALA:O	6:U:375:VAL:HG12	2.21	0.41
6:U:689:GLU:HA	6:U:695:SER:OG	2.21	0.41
3:Y:7:GLY:HA3	3:Y:28:PHE:CE2	2.56	0.41
3:Y:168:GLN:HG2	3:Y:174:LEU:HD23	2.03	0.41
1:K:158:VAL:HG22	2:M:840:ILE:CG2	2.51	0.41
2:P:713:ILE:HA	2:P:745:HIS:CG	2.55	0.41
3:R:134:HIS:HA	3:R:218:TYR:OH	2.21	0.41
4:F:224:LEU:CD1	4:F:227:LEU:HD13	2.51	0.41
4:F:527:TYR:O	4:F:530:LEU:HB3	2.21	0.41
4:F:565:TYR:CD1	4:F:637:LYS:HG2	2.56	0.41
4:F:898:PHE:CE1	4:F:2566:THR:HG23	2.55	0.41
4:F:1101:PHE:HB3	4:F:1154:PRO:HG3	2.03	0.41
4:F:1136:ARG:C	4:F:1140:LYS:HZ3	2.23	0.41
4:F:1184:ARG:HH21	4:F:1262:ALA:HA	1.84	0.41
4:F:1417:THR:O	4:F:1421:GLU:OE1	2.38	0.41
4:F:1551:ILE:HG13	4:F:1552:HIS:N	2.36	0.41
4:F:1616:LEU:HD22	4:F:1656:ASP:HA	2.03	0.41
4:F:1915:LEU:HA	4:F:1918:LEU:HD12	2.03	0.41
4:F:2234:ASN:HA	4:F:2237:ILE:HD12	2.02	0.41
4:F:2246:LYS:HA	4:F:2249:LEU:HD11	2.03	0.41
4:F:2428:ASP:O	4:F:2431:ARG:N	2.54	0.41
4:F:2445:LYS:HB2	4:F:2445:LYS:HE2	1.88	0.41
4:F:2486:ASP:N	4:F:2486:ASP:OD1	2.54	0.41
4:F:2884:LEU:HA	4:F:2886:GLN:OE1	2.21	0.41
4:F:3178:ILE:O	4:F:3182:ILE:HG12	2.20	0.41
4:F:3254:LEU:HB3	4:F:3283:LEU:HD11	2.02	0.41
4:F:3758:LEU:O	4:F:3795:PRO:HG3	2.21	0.41
4:F:4042:GLN:HB3	4:F:4046:TYR:CZ	2.56	0.41
6:H:389:MET:HE2	6:H:389:MET:HA	2.03	0.41
6:H:400:ARG:HH12	8:J:34:DT:C5'	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:35:ILE:HG22	4:A:81:CYS:HA	2.03	0.41
4:A:452:LYS:O	4:A:456:VAL:HG22	2.21	0.41
4:A:1124:ILE:HD12	4:A:1182:GLU:OE2	2.21	0.41
4:A:1226:GLY:N	4:A:1263:ALA:HB2	2.36	0.41
4:A:1261:LEU:HD21	4:A:1336:THR:HG23	2.02	0.41
4:A:1400:VAL:HG12	4:A:1404:LYS:HZ2	1.84	0.41
4:A:1568:ASN:ND2	4:A:1603:GLN:HB2	2.36	0.41
4:A:2169:LEU:HD21	4:A:2207:LYS:HZ1	1.86	0.41
4:A:2253:TYR:HA	4:A:2256:ILE:HD11	2.01	0.41
4:A:2443:MET:HA	4:A:2446:LEU:CB	2.49	0.41
4:A:2537:ASP:OD1	4:A:2538:ARG:N	2.54	0.41
4:A:3027:LEU:HA	4:A:3031:TRP:CG	2.56	0.41
5:B:36:ASP:HA	5:B:163:HIS:O	2.20	0.41
5:B:470:ARG:HA	6:C:389:MET:SD	2.60	0.41
4:S:627:VAL:HG22	4:S:669:LEU:HD11	2.03	0.41
4:S:670:LEU:O	4:S:674:VAL:HG22	2.21	0.41
4:S:879:MET:N	4:S:3934:THR:HG1	2.19	0.41
4:S:889:GLU:H	4:S:891:ARG:NH2	2.19	0.41
4:S:1078:ALA:HA	4:S:1128:CYS:N	2.28	0.41
4:S:1184:ARG:O	4:S:1188:ILE:HG23	2.21	0.41
4:S:1342:MET:HB3	4:S:1402:LEU:HD22	2.01	0.41
4:S:1360:LYS:HA	4:S:1363:LEU:HD23	2.02	0.41
4:S:1480:GLY:O	4:S:1527:ARG:NH1	2.54	0.41
4:S:1960:LYS:HA	4:S:1963:GLN:O	2.21	0.41
4:S:2217:ASN:O	4:S:2221:LYS:HD3	2.21	0.41
4:S:2920:VAL:HB	4:S:2947:ILE:HG23	2.02	0.41
4:S:3096:VAL:HB	4:S:3100:LYS:HE3	2.03	0.41
4:S:3410:ILE:O	4:S:3414:MET:HG2	2.21	0.41
4:S:3574:ALA:HA	4:S:3577:GLN:OE1	2.20	0.41
4:S:3692:VAL:HG23	4:S:3722:PHE:CZ	2.56	0.41
4:S:3810:VAL:HG22	4:S:3814:ASP:HB2	2.03	0.41
5:T:39:ILE:CD1	5:T:84:ALA:HB3	2.49	0.41
5:T:59:PRO:HA	5:T:62:MET:CE	2.50	0.41
5:T:166:ILE:O	5:T:201:ASP:N	2.41	0.41
6:U:32:GLU:HA	6:U:35:LYS:HE3	2.03	0.41
6:U:44:ARG:HH21	6:U:232:ARG:H	1.67	0.41
6:U:230:SER:OG	6:U:230:SER:O	2.35	0.41
6:U:400:ARG:HA	8:W:33:DA:H2'	2.02	0.41
6:U:594:PRO:HG2	6:U:634:LYS:NZ	2.36	0.41
7:V:27:DC:H42	8:W:31:DT:H3	1.69	0.41
3:X:10:MET:HG2	3:X:11:GLN:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:73:LEU:HD23	3:X:73:LEU:HA	1.71	0.41
3:Y:81:ARG:O	3:Y:83:LEU:N	2.53	0.41
1:L:94:TYR:HA	1:L:112:ASN:HA	2.02	0.41
1:L:163:GLU:HG2	2:M:843:LEU:HD21	2.03	0.41
1:N:20:LEU:HD23	1:N:73:ALA:O	2.21	0.41
1:N:169:LYS:HB3	2:P:847:PHE:CZ	2.56	0.41
1:O:162:PHE:CE2	2:P:843:LEU:HB2	2.55	0.41
3:Q:24:LEU:HD22	3:R:140:MET:CE	2.46	0.41
3:Q:25:ALA:HA	3:Q:37:LEU:O	2.21	0.41
3:Q:31:LYS:HD2	3:Q:31:LYS:HA	1.79	0.41
3:R:46:HIS:CB	3:R:126:ALA:HA	2.51	0.41
3:R:219:MET:HA	3:R:222:THR:HG23	2.03	0.41
4:F:67:VAL:HA	4:F:71:LYS:HG2	2.02	0.41
4:F:379:LYS:HD3	4:F:383:PHE:CE2	2.55	0.41
4:F:487:LEU:HB2	4:F:575:ILE:HD13	2.03	0.41
4:F:651:TYR:CE1	4:F:1392:MET:HE1	2.56	0.41
4:F:675:ARG:HH21	4:F:679:LYS:HB2	1.86	0.41
4:F:968:VAL:O	4:F:971:ARG:HG3	2.21	0.41
4:F:974:CYS:SG	4:F:1025:LEU:HA	2.61	0.41
4:F:1256:TRP:CH2	4:F:1296:PHE:HD2	2.39	0.41
4:F:1414:ILE:HG22	4:F:1418:HIS:HE1	1.85	0.41
4:F:1452:VAL:HG22	4:F:1517:LEU:CD1	2.48	0.41
4:F:1621:THR:C	4:F:1625:HIS:HD1	2.24	0.41
4:F:1740:VAL:HA	4:F:1743:MET:HE3	2.03	0.41
4:F:1771:GLN:N	4:F:1775:GLU:OE2	2.42	0.41
4:F:1817:GLN:HB2	4:F:1868:THR:HB	2.03	0.41
4:F:1871:MET:HA	4:F:1874:TYR:HD2	1.84	0.41
4:F:1881:TYR:HE1	4:F:1953:CYS:HB2	1.86	0.41
4:F:2146:LEU:O	4:F:2150:VAL:HG22	2.21	0.41
4:F:2225:HIS:CG	4:F:2230:VAL:HG23	2.56	0.41
4:F:2287:PRO:HB3	4:F:2326:ILE:HG12	2.02	0.41
4:F:2326:ILE:O	4:F:2330:VAL:N	2.53	0.41
4:F:2335:ASN:O	4:F:2336:ILE:HD13	2.21	0.41
4:F:2350:LYS:HA	4:F:2354:ASN:CG	2.40	0.41
4:F:2406:GLU:OE1	4:F:2406:GLU:N	2.42	0.41
4:F:2552:VAL:HG22	4:F:2851:PHE:CG	2.56	0.41
4:F:2834:GLN:O	4:F:2838:GLN:HG3	2.20	0.41
4:F:3064:PHE:O	4:F:3067:LYS:HG3	2.20	0.41
4:F:3082:TYR:HB3	4:F:3085:GLU:HB2	2.02	0.41
4:F:3169:PRO:HD2	4:F:3179:TRP:CH2	2.56	0.41
4:F:3178:ILE:H	4:F:3178:ILE:HD12	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:3250:ASN:OD1	4:F:3286:CYS:HB3	2.21	0.41
4:F:3259:LEU:HD13	4:F:3280:TYR:HB2	2.03	0.41
4:F:3467:ARG:HH11	4:F:4000:ASN:HD21	1.68	0.41
4:F:3563:ASP:C	4:F:3564:GLN:HG3	2.41	0.41
4:F:3570:ASP:HA	4:F:3573:ASN:HB2	2.03	0.41
4:F:3606:ILE:HA	4:F:3606:ILE:HD13	1.89	0.41
4:F:3835:PRO:HG2	4:F:3836:PRO:HD3	2.03	0.41
4:F:3837:CYS:CB	4:F:3874:ARG:HD2	2.48	0.41
4:F:3922:ASP:OD1	4:F:3927:ASN:HB3	2.20	0.41
4:F:4049:ARG:O	4:F:4054:ALA:HB2	2.21	0.41
4:F:4085:LYS:H	4:F:4088:ASN:HB2	1.86	0.41
4:F:4091:ALA:O	4:F:4094:PRO:HD2	2.21	0.41
5:G:89:GLY:HA2	5:G:140:ASP:O	2.21	0.41
5:G:384:ALA:HA	5:G:387:ILE:HG12	2.02	0.41
5:G:399:ARG:NH2	6:H:517:ASN:HA	2.36	0.41
5:G:426:GLN:NE2	5:G:429:PRO:HA	2.35	0.41
6:H:184:ARG:HA	6:H:519:PRO:CA	2.44	0.41
6:H:239:LYS:HE3	6:H:239:LYS:HB2	1.91	0.41
6:H:340:PHE:HD1	6:H:395:TYR:CD1	2.38	0.41
6:H:426:PHE:HB2	6:H:429:ASP:HB2	2.02	0.41
6:H:527:GLN:HA	6:H:530:LEU:HB3	2.02	0.41
6:H:660:LYS:HE3	6:H:707:PRO:HB3	2.03	0.41
6:H:677:ILE:HG23	6:H:681:ASP:OD2	2.21	0.41
7:I:24:DA:O3'	7:I:26:DA:C6	2.74	0.41
7:I:32:DA:H2	8:J:27:DT:H3	1.68	0.41
4:A:82:ARG:CZ	4:A:114:VAL:HG12	2.51	0.41
4:A:256:ILE:HG22	4:A:257:ARG:H	1.86	0.41
4:A:370:ALA:HA	4:A:373:CYS:SG	2.61	0.41
4:A:606:SER:O	4:A:608:PRO:HD3	2.21	0.41
4:A:610:ALA:HA	4:A:723:ASP:O	2.20	0.41
4:A:620:PHE:CE1	4:A:663:ILE:HG23	2.56	0.41
4:A:846:ILE:HG12	4:A:851:ILE:HG13	2.02	0.41
4:A:1221:ILE:HB	4:A:1281:VAL:HG22	2.03	0.41
4:A:1276:VAL:HG22	4:A:1280:GLN:HB3	2.03	0.41
4:A:1527:ARG:NH1	4:A:1527:ARG:O	2.54	0.41
4:A:1649:LEU:O	4:A:1653:LEU:HG	2.20	0.41
4:A:1693:VAL:HG22	4:A:1749:ALA:HB1	2.02	0.41
4:A:1757:MET:O	4:A:1760:GLU:HG2	2.21	0.41
4:A:1862:THR:HG22	4:A:1866:GLN:OE1	2.21	0.41
4:A:1939:LEU:HD12	4:A:1942:CYS:SG	2.61	0.41
4:A:2362:VAL:HA	4:A:2396:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:2559:THR:HG23	4:A:2809:PHE:HD1	1.86	0.41
4:A:2836:LEU:HD23	4:A:2836:LEU:HA	1.88	0.41
4:A:2839:ASP:HB3	4:A:2843:PHE:CZ	2.56	0.41
4:A:2952:ILE:HD12	4:A:2981:TRP:CH2	2.53	0.41
4:A:3027:LEU:HD11	4:A:3044:MET:HG3	2.03	0.41
4:A:3335:ARG:HE	4:A:3422:GLN:HE22	1.68	0.41
4:A:3389:VAL:HG13	4:A:3413:TYR:HE1	1.86	0.41
4:A:3568:ILE:O	4:A:3572:ILE:HG13	2.21	0.41
4:A:3894:PRO:C	4:A:3896:ALA:H	2.24	0.41
4:A:3952:PHE:N	4:A:4067:GLY:O	2.37	0.41
4:A:4074:PHE:HA	4:A:4077:TYR:CD2	2.56	0.41
5:B:366:LEU:HD22	6:C:431:ARG:NE	2.36	0.41
5:B:439:PHE:HD2	6:C:270:GLU:H	1.67	0.41
6:C:108:LEU:HD23	6:C:111:LEU:HD12	2.02	0.41
6:C:236:VAL:HG22	6:C:511:HIS:HD2	1.86	0.41
6:C:411:HIS:O	6:C:417:GLU:HA	2.21	0.41
4:S:267:VAL:HB	4:S:268:PRO:HD3	2.02	0.41
4:S:268:PRO:HB2	4:S:308:LEU:HD22	2.02	0.41
4:S:484:HIS:ND1	4:S:575:ILE:HD11	2.36	0.41
4:S:944:LYS:HA	4:S:2577:PHE:CE2	2.53	0.41
4:S:1040:SER:O	4:S:1044:ILE:HB	2.21	0.41
4:S:1078:ALA:O	4:S:1129:ASP:HB2	2.21	0.41
4:S:1377:CYS:HA	4:S:1454:ALA:CB	2.51	0.41
4:S:1389:VAL:HG23	4:S:1391:VAL:HG22	2.03	0.41
4:S:1723:PRO:HB2	4:S:1724:MET:SD	2.61	0.41
4:S:1728:GLU:HB2	6:U:597:ASN:ND2	2.35	0.41
4:S:1787:ARG:HE	4:S:1830:HIS:CE1	2.37	0.41
4:S:2215:LEU:HA	4:S:2218:PHE:CD2	2.56	0.41
4:S:2379:MET:HE2	4:S:2404:ARG:HE	1.86	0.41
4:S:2386:LEU:HD23	4:S:2418:LYS:HB3	2.02	0.41
4:S:3145:ILE:HD13	4:S:3189:PHE:HD1	1.85	0.41
4:S:3183:ILE:HG22	4:S:3238:MET:SD	2.61	0.41
4:S:3335:ARG:NE	4:S:3339:ASN:HD21	2.19	0.41
4:S:3382:PHE:HE1	4:S:3445:LEU:HD11	1.84	0.41
4:S:3421:ASP:CG	4:S:3425:ARG:HE	2.24	0.41
4:S:3577:GLN:HA	4:S:3629:ARG:NH1	2.35	0.41
4:S:3644:PHE:CE2	4:S:3662:ILE:HB	2.55	0.41
4:S:4042:GLN:HB3	4:S:4066:LEU:HD22	2.02	0.41
5:T:69:SER:HB3	5:T:245:LYS:HB3	2.03	0.41
5:T:102:ILE:HD11	5:T:145:GLU:HB2	2.03	0.41
5:T:398:CYS:HB3	5:T:413:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:403:ARG:HB3	7:V:32:DA:OP2	2.20	0.41
6:U:197:ILE:HG12	6:U:201:GLN:OE1	2.20	0.41
6:U:314:PHE:O	6:U:316:TYR:N	2.53	0.41
6:U:446:PRO:HA	6:U:450:GLN:HB2	2.03	0.41
6:U:645:GLU:HG2	6:U:648:LYS:NZ	2.36	0.41
8:W:19:DA:H1'	8:W:20:DT:C2	2.56	0.41
3:X:23:LEU:HD22	3:X:40:ASP:HA	2.02	0.41
1:K:127:ILE:HD13	1:L:19:PHE:HZ	1.86	0.41
3:R:27:VAL:HG23	3:R:35:ALA:C	2.41	0.41
3:R:45:TRP:HB3	3:R:123:CYS:HB3	2.03	0.41
3:R:81:ARG:O	3:R:83:LEU:N	2.53	0.41
4:F:250:ASN:HA	4:F:275:PHE:CE2	2.56	0.41
4:F:531:PHE:O	4:F:534:LEU:HB2	2.21	0.41
4:F:966:PHE:O	4:F:970:LEU:HG	2.21	0.41
4:F:1392:MET:O	4:F:1395:LEU:HB2	2.21	0.41
4:F:1518:ALA:HA	4:F:1521:PHE:CD2	2.56	0.41
4:F:1598:ASN:HA	4:F:1601:LEU:HD12	2.02	0.41
4:F:1711:ARG:O	4:F:1715:GLU:OE1	2.39	0.41
4:F:2470:ARG:O	4:F:2473:MET:HB2	2.21	0.41
4:F:2531:LEU:HB3	4:F:2538:ARG:HG2	2.03	0.41
4:F:2787:HIS:O	4:F:2791:ILE:HG12	2.21	0.41
4:F:2919:ASP:C	4:F:2923:TRP:HD1	2.24	0.41
4:F:3192:LYS:HD3	4:F:3195:GLU:OE2	2.21	0.41
4:F:3369:ASP:O	4:F:3373:VAL:HG23	2.21	0.41
4:F:3416:LEU:HD22	4:F:3449:LYS:HD2	2.03	0.41
4:F:3557:ARG:O	4:F:3560:SER:OG	2.24	0.41
4:F:3617:LEU:HA	4:F:3633:ILE:HB	2.03	0.41
4:F:3924:HIS:HB3	4:F:4123:GLY:O	2.21	0.41
5:G:49:PHE:HA	5:G:58:THR:CB	2.50	0.41
5:G:145:GLU:OE1	5:G:145:GLU:N	2.47	0.41
5:G:300:THR:OG1	6:H:293:THR:HG22	2.20	0.41
6:H:501:PRO:HB2	6:H:502:ARG:NH2	2.36	0.41
7:I:43:DT:H1'	7:I:44:DG:N2	2.36	0.41
4:A:189:MET:HG2	4:A:234:PHE:CZ	2.55	0.41
4:A:366:TYR:O	4:A:370:ALA:N	2.54	0.41
4:A:970:LEU:HD11	4:A:1012:ALA:HA	2.03	0.41
4:A:988:VAL:O	4:A:992:ILE:HG12	2.20	0.41
4:A:1069:HIS:HE2	4:A:3747:GLU:HG3	1.85	0.41
4:A:1096:VAL:HA	4:A:1099:PHE:HB2	2.03	0.41
4:A:2300:PHE:CG	4:A:2341:LEU:HD11	2.55	0.41
4:A:3365:SER:HB2	4:A:3372:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3822:GLN:HA	4:A:3825:LYS:HE3	2.02	0.41
5:B:259:LEU:O	5:B:270:SER:HA	2.21	0.41
5:B:289:TYR:H	5:B:294:GLU:N	2.19	0.41
5:B:411:VAL:HG12	5:B:413:LEU:HD12	2.02	0.41
6:C:245:ILE:HG22	9:D:24:DA:P	2.60	0.41
4:S:306:VAL:HG12	4:S:309:LYS:HD3	2.02	0.41
4:S:1055:ASN:O	4:S:1059:LEU:N	2.42	0.41
4:S:1099:PHE:HA	4:S:1102:GLU:OE2	2.20	0.41
4:S:1163:LEU:HD23	4:S:1163:LEU:HA	1.81	0.41
4:S:1685:ASP:OD1	4:S:1686:LEU:N	2.53	0.41
4:S:1730:PRO:HG2	4:S:1735:ARG:NH2	2.35	0.41
4:S:1762:MET:HG3	4:S:1778:PHE:CZ	2.56	0.41
4:S:1919:CYS:SG	4:S:1920:TYR:N	2.94	0.41
4:S:2246:LYS:HA	4:S:2249:LEU:HD12	2.01	0.41
4:S:2539:LEU:HD13	4:S:2562:LEU:HD13	2.03	0.41
4:S:3015:SER:HB3	4:S:3047:SER:HB2	2.03	0.41
4:S:3413:TYR:CE1	4:S:3416:LEU:HD22	2.56	0.41
4:S:3787:GLN:H	4:S:3910:LEU:HG	1.87	0.41
4:S:3817:LEU:HA	4:S:3822:GLN:HA	2.03	0.41
4:S:4038:TRP:HZ3	4:S:4040:PRO:HA	1.86	0.41
6:U:112:ILE:O	6:U:115:MET:HG2	2.21	0.41
6:U:247:TRP:H	6:U:264:TYR:HE2	1.69	0.41
6:U:265:LYS:HG2	6:U:362:LEU:HG	2.03	0.41
6:U:285:LYS:HA	6:U:285:LYS:HD3	1.90	0.41
6:U:351:VAL:HG11	6:U:424:LEU:HD22	2.03	0.41
6:U:476:LEU:HB2	6:U:519:PRO:HD3	2.03	0.41
6:U:611:GLU:HG2	6:U:612:ALA:N	2.36	0.41
3:X:183:PRO:O	3:X:185:GLU:HG2	2.21	0.41
3:X:210:PHE:CD2	3:X:211:VAL:HG13	2.55	0.41
1:L:33:VAL:HG13	1:L:46:THR:HA	2.03	0.40
1:L:178:LYS:HD2	2:M:786:GLU:HB2	2.02	0.40
2:M:668:SER:O	2:M:703:GLY:N	2.54	0.40
1:N:99:LYS:O	1:N:106:PHE:HB2	2.21	0.40
1:N:191:ILE:HG21	2:P:765:TYR:HB3	2.03	0.40
1:O:22:VAL:HG12	1:O:24:TRP:CE3	2.56	0.40
3:Q:50:ASP:O	3:Q:54:VAL:HG23	2.21	0.40
3:Q:208:LYS:HA	3:Q:211:VAL:HG22	2.03	0.40
3:R:10:MET:HA	3:R:222:THR:HB	2.02	0.40
3:R:24:LEU:HD23	3:R:24:LEU:HA	1.93	0.40
4:F:172:GLU:CB	4:F:220:LEU:HA	2.51	0.40
4:F:364:ARG:HH12	4:F:463:LYS:NZ	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:440:VAL:O	4:F:443:ILE:HG12	2.21	0.40
4:F:642:PHE:O	4:F:645:TRP:N	2.54	0.40
4:F:713:GLU:OE2	4:F:714:VAL:HG13	2.21	0.40
4:F:747:ALA:O	4:F:750:PRO:HD2	2.21	0.40
4:F:997:ASN:O	4:F:1001:PHE:HB2	2.21	0.40
4:F:1512:SER:O	4:F:1516:GLU:OE1	2.38	0.40
4:F:2158:ARG:O	4:F:2199:LEU:HD12	2.21	0.40
4:F:2211:LEU:O	4:F:2215:LEU:HG	2.20	0.40
4:F:2307:MET:HA	4:F:2316:TYR:HB2	2.03	0.40
4:F:2350:LYS:HA	4:F:2354:ASN:OD1	2.21	0.40
4:F:2366:LYS:HD2	4:F:2369:LYS:HZ3	1.86	0.40
4:F:3158:LYS:HZ3	4:F:3186:ARG:NH1	2.19	0.40
4:F:3354:ASP:OD1	4:F:3354:ASP:N	2.44	0.40
4:F:3775:LEU:HA	4:F:3775:LEU:HD23	1.74	0.40
5:G:457:GLU:OE2	5:G:458:GLN:NE2	2.32	0.40
5:G:493:LEU:HB3	6:H:323:PHE:CZ	2.56	0.40
6:H:340:PHE:CE2	6:H:393:VAL:HG21	2.56	0.40
4:A:102:PRO:HG2	4:A:103:TYR:CD2	2.56	0.40
4:A:173:LYS:NZ	4:A:222:GLY:HA3	2.35	0.40
4:A:408:TYR:CE1	4:A:441:MET:HB3	2.55	0.40
4:A:455:LEU:O	4:A:459:ARG:HG3	2.21	0.40
4:A:936:SER:HA	4:A:939:MET:HE2	2.02	0.40
4:A:978:GLN:HA	4:A:981:ARG:NE	2.36	0.40
4:A:1045:THR:OG1	4:A:1048:GLN:HG2	2.21	0.40
4:A:1456:LYS:HD2	4:A:1456:LYS:HA	1.79	0.40
4:A:2440:TYR:HD1	4:A:2476:ILE:HG12	1.86	0.40
4:A:2803:ILE:HA	4:A:2806:LYS:HE3	2.02	0.40
4:A:2814:SER:HB2	4:A:2818:LYS:NZ	2.37	0.40
4:A:3014:CYS:HA	4:A:3018:SER:HB2	2.04	0.40
4:A:3168:TYR:HA	4:A:3169:PRO:HD3	1.87	0.40
4:A:4074:PHE:O	4:A:4078:VAL:HG23	2.21	0.40
4:S:156:PHE:O	4:S:159:GLU:HG3	2.21	0.40
4:S:172:GLU:C	4:S:174:VAL:H	2.24	0.40
4:S:237:SER:OG	4:S:238:MET:N	2.54	0.40
4:S:1061:LYS:HG2	4:S:1152:ARG:NH1	2.33	0.40
4:S:1083:ASN:HA	4:S:1133:HIS:HD2	1.86	0.40
4:S:1326:GLU:HB3	4:S:1329:ARG:HG2	2.03	0.40
4:S:1395:LEU:N	4:S:1396:PRO:HD2	2.37	0.40
4:S:1733:THR:O	4:S:1736:PHE:HB3	2.21	0.40
4:S:2415:LEU:HB2	4:S:2420:PHE:CB	2.51	0.40
4:S:2884:LEU:HD12	4:S:3117:ILE:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3140:GLU:OE1	4:S:3186:ARG:NH2	2.53	0.40
4:S:3729:MET:N	4:S:3729:MET:SD	2.83	0.40
5:T:59:PRO:HA	5:T:62:MET:HE2	2.03	0.40
5:T:255:ALA:HB3	7:V:34:DC:H4'	2.02	0.40
5:T:340:PHE:HE2	6:U:485:PRO:HB3	1.85	0.40
5:T:365:SER:O	6:U:431:ARG:NH2	2.54	0.40
5:T:381:LEU:HD12	6:U:537:PHE:CD2	2.56	0.40
5:T:403:ARG:NH1	8:W:29:DG:H4'	2.36	0.40
7:V:44:DG:C8	7:V:45:DG:H8	2.38	0.40
3:X:146:LEU:O	3:X:150:VAL:N	2.45	0.40
3:Y:115:LEU:N	3:Y:116:PRO:HD3	2.36	0.40
3:Y:153:LEU:O	3:Y:157:LEU:HB2	2.21	0.40
1:K:181:ILE:HD13	2:M:770:ASP:O	2.21	0.40
1:L:6:SER:HB2	1:L:75:LEU:HD13	2.02	0.40
1:N:28:LEU:O	1:N:52:ILE:HG21	2.21	0.40
1:N:130:CYS:O	1:N:133:THR:HG22	2.21	0.40
1:N:188:LYS:HA	1:N:191:ILE:HD12	2.02	0.40
3:Q:11:GLN:HG3	3:Q:28:PHE:HD1	1.85	0.40
3:Q:42:GLN:O	3:R:129:SER:HA	2.21	0.40
3:Q:167:TYR:HE2	3:R:173:THR:HA	1.86	0.40
3:R:25:ALA:HA	3:R:38:VAL:HA	2.02	0.40
4:F:14:ARG:O	4:F:18:THR:OG1	2.36	0.40
4:F:38:LEU:HD21	4:F:84:GLU:C	2.41	0.40
4:F:83:GLU:HA	4:F:126:PRO:HG3	2.03	0.40
4:F:153:PHE:CD2	4:F:189:MET:HG2	2.56	0.40
4:F:164:LYS:HD3	5:G:300:THR:O	2.21	0.40
4:F:189:MET:O	4:F:193:ALA:CB	2.69	0.40
4:F:681:LYS:HD2	4:F:681:LYS:HA	1.77	0.40
4:F:990:GLN:NE2	4:F:2778:GLY:O	2.53	0.40
4:F:993:HIS:HE1	4:F:1038:LYS:HZ2	1.67	0.40
4:F:1073:PHE:HD1	4:F:1076:LEU:HD21	1.86	0.40
4:F:1123:THR:HA	4:F:1126:GLN:HB2	2.02	0.40
4:F:1229:CYS:O	4:F:1232:PRO:HD2	2.22	0.40
4:F:2201:THR:HA	4:F:2202:PRO:HD3	1.83	0.40
4:F:2325:LEU:HD23	4:F:2370:SER:HB2	2.03	0.40
4:F:2541:ALA:O	4:F:2544:SER:OG	2.24	0.40
4:F:2869:LEU:C	4:F:2899:ARG:HH22	2.24	0.40
4:F:2991:LYS:HG2	4:F:2994:TRP:CZ3	2.56	0.40
4:F:3237:SER:O	4:F:3240:MET:HB2	2.21	0.40
4:F:3324:ARG:HA	4:F:3388:ALA:HA	2.02	0.40
4:F:3915:HIS:O	4:F:3919:GLY:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:315:ASP:OD1	5:G:315:ASP:N	2.53	0.40
6:H:7:LYS:HA	6:H:51:LYS:O	2.21	0.40
6:H:44:ARG:O	6:H:237:PHE:HD1	2.04	0.40
4:A:427:VAL:HA	4:A:428:PRO:HD3	1.94	0.40
4:A:1064:TYR:HD1	4:A:1107:TYR:HE1	1.69	0.40
4:A:1069:HIS:CD2	4:A:3741:ARG:HD2	2.56	0.40
4:A:1081:ALA:O	4:A:1085:ILE:HG12	2.21	0.40
4:A:1208:LEU:HD12	4:A:1208:LEU:HA	1.87	0.40
4:A:1569:THR:HA	4:A:1572:LEU:HD12	2.02	0.40
4:A:1951:VAL:O	4:A:1955:VAL:N	2.43	0.40
4:A:2126:MET:HE1	4:A:2127:LYS:HE3	2.04	0.40
4:A:2571:ASP:O	4:A:2787:HIS:ND1	2.54	0.40
4:A:2865:HIS:HB2	4:A:2868:LEU:HB2	2.03	0.40
4:A:2976:LEU:HD12	4:A:2991:LYS:HE3	2.03	0.40
4:A:3367:SER:HB3	4:A:3372:LYS:HD2	2.04	0.40
5:B:45:SER:OG	5:B:174:ASN:OD1	2.39	0.40
6:C:251:LEU:HD12	6:C:340:PHE:CD2	2.56	0.40
6:C:344:GLY:O	6:C:392:ILE:N	2.35	0.40
4:S:995:PHE:CD1	4:S:1008:ALA:HB1	2.56	0.40
4:S:1306:ILE:HA	4:S:1322:THR:N	2.36	0.40
4:S:2555:LEU:HD11	4:S:2853:PRO:C	2.42	0.40
4:S:2559:THR:HG23	4:S:2809:PHE:HB2	2.03	0.40
4:S:2935:GLU:CD	4:S:2938:VAL:H	2.24	0.40
4:S:2953:THR:HG23	4:S:2993:PHE:CD2	2.56	0.40
4:S:2965:TYR:O	4:S:2969:ALA:N	2.53	0.40
4:S:3354:ASP:OD1	4:S:3354:ASP:N	2.54	0.40
5:T:62:MET:CE	5:T:205:LEU:HD11	2.52	0.40
5:T:358:LYS:HG3	6:U:356:PHE:CD2	2.56	0.40
5:T:363:ARG:NH1	8:W:28:DA:H3'	2.36	0.40
6:U:356:PHE:CZ	6:U:407:VAL:HG21	2.56	0.40
6:U:406:GLY:HA2	6:U:423:GLN:HA	2.01	0.40
6:U:668:ILE:HG22	6:U:668:ILE:O	2.22	0.40
8:W:25:DT:H5''	8:W:26:DT:C2	2.56	0.40
1:K:137:ASN:H	1:L:136:GLU:N	2.19	0.40
1:L:126:LEU:HD23	1:L:126:LEU:O	2.21	0.40
2:M:679:GLU:O	2:M:682:ILE:HG22	2.21	0.40
2:M:721:VAL:HG22	2:M:743:MET:HG2	2.03	0.40
2:M:759:ASP:OD2	2:M:763:ASP:HB3	2.21	0.40
2:M:814:ARG:HD3	2:M:849:GLY:HA3	2.03	0.40
2:M:821:ASP:HB3	2:M:865:ILE:HA	2.04	0.40
1:N:43:TRP:HD1	1:N:115:LYS:HB2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:22:VAL:HG22	1:O:34:ILE:HD11	2.03	0.40
1:O:115:LYS:HA	1:O:115:LYS:HD2	1.83	0.40
1:O:159:GLN:O	1:O:163:GLU:HG3	2.21	0.40
2:P:752:GLU:HG3	2:P:756:ARG:HH22	1.85	0.40
2:P:825:VAL:HG12	2:P:831:THR:HG21	2.04	0.40
3:Q:46:HIS:NE2	3:Q:130:LEU:O	2.54	0.40
3:R:13:TRP:O	3:R:215:GLN:NE2	2.54	0.40
3:R:115:LEU:HD23	3:R:115:LEU:HA	1.87	0.40
4:F:148:LYS:O	4:F:151:GLU:HG3	2.21	0.40
4:F:357:LYS:HG3	4:F:408:TYR:CE2	2.57	0.40
4:F:921:ALA:HB3	4:F:927:LYS:HG3	2.03	0.40
4:F:1577:LEU:O	4:F:1581:GLU:HG3	2.21	0.40
4:F:1630:ASP:C	4:F:1632:TRP:H	2.24	0.40
4:F:1864:ASP:O	4:F:1868:THR:HG23	2.21	0.40
4:F:2389:PHE:CD2	4:F:2397:CYS:HB2	2.57	0.40
4:F:2402:LEU:HD21	4:F:2434:VAL:HB	2.03	0.40
4:F:2433:LYS:HA	4:F:2472:GLN:OE1	2.21	0.40
4:F:2458:VAL:HA	4:F:2461:PHE:CD2	2.55	0.40
4:F:2555:LEU:HD11	4:F:2854:PHE:HA	2.02	0.40
4:F:2921:LEU:O	4:F:2924:VAL:HG12	2.21	0.40
4:F:3097:ASP:OD1	4:F:3098:ARG:N	2.51	0.40
4:F:3164:TRP:CD1	4:F:3164:TRP:N	2.88	0.40
4:F:3495:PHE:HD1	4:F:3498:TRP:CZ3	2.39	0.40
4:F:3617:LEU:HD22	4:F:3633:ILE:HG22	2.04	0.40
5:G:262:LYS:HZ2	5:G:344:GLY:HA3	1.84	0.40
5:G:263:LEU:HD22	5:G:347:LEU:HB2	2.03	0.40
5:G:318:ARG:N	5:G:329:LEU:O	2.55	0.40
5:G:348:MET:HG3	5:G:410:PHE:CE1	2.56	0.40
5:G:357:LYS:H	5:G:360:HIS:HB2	1.87	0.40
5:G:364:PRO:HG3	6:H:357:MET:HA	2.03	0.40
7:I:30:DA:H2 [?]	8:J:28:DA:N1	2.36	0.40
4:A:523:THR:OG1	4:A:526:ASP:OD1	2.38	0.40
4:A:530:LEU:O	4:A:534:LEU:HG	2.21	0.40
4:A:741:ILE:HG21	4:A:776:TRP:CE2	2.56	0.40
4:A:752:LEU:HD13	4:A:776:TRP:CZ3	2.57	0.40
4:A:923:ASP:OD2	4:A:926:THR:HG23	2.21	0.40
4:A:1083:ASN:ND2	4:A:1126:GLN:OE1	2.49	0.40
4:A:1205:ASN:O	4:A:1209:LYS:HG2	2.21	0.40
4:A:1373:VAL:HG11	4:A:1422:LYS:HG2	2.04	0.40
4:A:1403:MET:O	4:A:1407:LYS:HB2	2.21	0.40
4:A:1560:TYR:HA	4:A:1567:ILE:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:1564:SER:HA	4:A:1567:ILE:HB	2.03	0.40
4:A:1568:ASN:HD21	4:A:1606:ARG:HH22	1.69	0.40
4:A:1670:GLU:O	4:A:1673:THR:OG1	2.31	0.40
4:A:1769:GLU:O	4:A:1822:ARG:NH1	2.39	0.40
4:A:2943:PHE:HA	4:A:2948:GLY:HA3	2.02	0.40
4:A:3470:GLN:HG3	4:A:3474:ARG:HH21	1.87	0.40
4:A:3472:ILE:HG13	4:A:3478:GLU:O	2.21	0.40
4:A:3496:ILE:HD11	4:A:3712:LEU:HD23	2.03	0.40
4:A:4090:ARG:HG3	4:A:4095:GLU:OE1	2.21	0.40
5:B:46:LYS:HE3	5:B:46:LYS:HB3	1.85	0.40
5:B:247:ARG:NH1	5:B:488:ARG:HG2	2.36	0.40
5:B:399:ARG:HB3	5:B:408:PRO:HB3	2.03	0.40
4:S:12:LEU:HD21	4:S:88:PHE:CE1	2.57	0.40
4:S:68:PHE:HE1	4:S:114:VAL:HA	1.86	0.40
4:S:266:ALA:HB3	7:V:40:DT:H2''	2.04	0.40
4:S:366:TYR:O	4:S:369:PHE:HB3	2.22	0.40
4:S:410:MET:HB3	4:S:442:GLN:NE2	2.36	0.40
4:S:571:SER:HA	4:S:574:LYS:HE2	2.04	0.40
4:S:710:PHE:O	4:S:714:VAL:HG23	2.21	0.40
4:S:979:VAL:O	4:S:982:GLN:HG2	2.21	0.40
4:S:994:TRP:CE3	4:S:2780:LEU:HD22	2.57	0.40
4:S:1580:LEU:O	4:S:1584:GLN:HG2	2.22	0.40
4:S:2169:LEU:O	4:S:2173:ALA:N	2.42	0.40
4:S:2185:MET:SD	4:S:2186:VAL:HG23	2.61	0.40
4:S:2185:MET:O	4:S:2189:ILE:HG23	2.22	0.40
4:S:2774:SER:HB2	4:S:2776:ARG:NH2	2.37	0.40
4:S:2885:GLN:O	4:S:2888:VAL:HG12	2.21	0.40
4:S:3087:SER:HB3	4:S:3103:ILE:HD13	2.03	0.40
4:S:3414:MET:O	4:S:3418:ASP:HB2	2.22	0.40
4:S:3421:ASP:CG	4:S:3467:ARG:HD3	2.42	0.40
4:S:3529:ILE:O	4:S:3532:PRO:HD2	2.22	0.40
4:S:3699:LEU:HD23	4:S:3699:LEU:HA	1.96	0.40
4:S:3744:ASP:N	4:S:3744:ASP:OD1	2.55	0.40
4:S:3815:LEU:HD13	4:S:3930:VAL:HG21	2.02	0.40
5:T:173:ASP:N	5:T:173:ASP:OD1	2.52	0.40
6:U:111:LEU:HD13	6:U:150:ILE:CG2	2.50	0.40
6:U:272:VAL:O	6:U:272:VAL:HG13	2.21	0.40
6:U:484:ASN:HD21	6:U:486:ARG:HB3	1.85	0.40
6:U:699:GLU:HB3	6:U:703:LYS:HD2	2.04	0.40
1:K:19:PHE:N	1:K:37:THR:O	2.47	0.40
1:L:62:GLU:HB2	3:Y:116:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:204:ILE:HG21	3:R:140:MET:HE2	2.03	0.40
3:Q:210:PHE:O	3:Q:214:LEU:HB2	2.21	0.40
3:R:151:ARG:O	3:R:154:ALA:HB3	2.22	0.40
4:F:179:GLY:C	4:F:230:LEU:HD23	2.41	0.40
4:F:195:ASN:O	4:F:198:ARG:HG2	2.20	0.40
4:F:340:TYR:HA	4:F:343:GLU:HG2	2.03	0.40
4:F:1369:MET:HG2	4:F:1415:LEU:HD21	2.03	0.40
4:F:2258:GLU:O	4:F:2262:GLY:N	2.54	0.40
4:F:2410:GLU:HG3	4:F:2414:GLN:OE1	2.21	0.40
4:F:2432:GLN:O	4:F:2436:LEU:HG	2.21	0.40
4:F:2528:GLU:HA	4:F:2531:LEU:O	2.21	0.40
4:F:2533:SER:HA	4:F:2538:ARG:NE	2.36	0.40
4:F:2559:THR:O	4:F:2563:LEU:HD13	2.21	0.40
4:F:2762:LYS:HA	4:F:2765:GLN:NE2	2.37	0.40
4:F:2797:VAL:HG13	4:F:2804:ILE:HD12	2.03	0.40
4:F:2809:PHE:HA	4:F:2812:LEU:HG	2.03	0.40
4:F:2996:LEU:HD21	4:F:3040:TYR:CE1	2.57	0.40
4:F:3000:ASP:O	4:F:3004:HIS:ND1	2.55	0.40
4:F:3009:LYS:HA	4:F:3009:LYS:HD2	1.77	0.40
4:F:3048:LYS:HD3	4:F:3051:LEU:HD12	2.03	0.40
4:F:3089:LEU:O	4:F:3092:LEU:HB3	2.21	0.40
4:F:3266:SER:CB	4:F:3273:LEU:HD23	2.52	0.40
4:F:3572:ILE:HA	4:F:3684:SER:CB	2.51	0.40
4:F:3588:TRP:HE3	4:F:3640:PHE:CE2	2.39	0.40
4:F:3951:GLN:O	4:F:4067:GLY:HA3	2.21	0.40
5:G:207:LYS:HB2	5:G:207:LYS:HE2	1.94	0.40
6:H:118:ILE:HD11	6:H:132:ILE:HD13	2.02	0.40
6:H:253:ILE:HG12	6:H:342:VAL:HB	2.03	0.40
6:H:259:ILE:HG22	6:H:261:ILE:HG23	2.03	0.40
6:H:632:PHE:O	6:H:636:ILE:HG23	2.21	0.40
8:J:34:DT:H6	8:J:34:DT:H2'	1.54	0.40
4:A:763:THR:OG1	4:A:764:PRO:HD3	2.21	0.40
4:A:865:GLN:HE21	4:A:3167:ARG:HA	1.86	0.40
4:A:1178:ARG:O	4:A:1184:ARG:HB2	2.21	0.40
4:A:1623:LEU:HB2	4:A:1661:PHE:CE2	2.56	0.40
4:A:1652:ILE:O	4:A:1656:ASP:N	2.48	0.40
4:A:1691:GLN:N	4:A:1745:LYS:HZ3	2.19	0.40
4:A:1717:LEU:HD13	4:A:1746:PHE:CZ	2.56	0.40
4:A:2223:VAL:O	4:A:2223:VAL:HG13	2.22	0.40
4:A:2571:ASP:O	4:A:2574:ASN:HB2	2.22	0.40
4:A:2592:ASP:OD1	4:A:2592:ASP:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:3511:ALA:HB3	4:A:3550:LYS:CB	2.51	0.40
4:A:3644:PHE:HD1	4:A:3666:LEU:HD13	1.86	0.40
4:A:3839:TYR:HD1	4:A:3874:ARG:NE	2.19	0.40
5:B:343:PRO:HG3	5:B:404:ARG:N	2.37	0.40
5:B:422:ASP:N	5:B:422:ASP:OD1	2.53	0.40
4:S:148:LYS:HE2	4:S:148:LYS:HB2	1.90	0.40
4:S:1063:LEU:HD12	4:S:1128:CYS:SG	2.62	0.40
4:S:1082:PHE:O	4:S:1082:PHE:CG	2.74	0.40
4:S:1448:LEU:O	4:S:1452:VAL:HG23	2.21	0.40
4:S:1767:CYS:HA	4:S:1822:ARG:HH12	1.86	0.40
4:S:1831:CYS:SG	4:S:1836:LEU:HB2	2.61	0.40
4:S:2094:MET:HE3	4:S:2145:PHE:O	2.22	0.40
4:S:2348:GLN:O	4:S:2353:GLN:HB2	2.21	0.40
4:S:2580:PRO:HA	4:S:2783:ILE:CG1	2.51	0.40
4:S:3090:TYR:CE2	4:S:3098:ARG:HD3	2.57	0.40
4:S:3233:SER:HB3	4:S:3269:ARG:NH1	2.36	0.40
4:S:3729:MET:SD	4:S:3735:PRO:HB2	2.62	0.40
4:S:3887:PHE:CZ	4:S:3970:LEU:HD12	2.56	0.40
4:S:4050:LYS:HG2	4:S:4059:ILE:CG2	2.52	0.40
4:S:4106:CYS:HA	4:S:4109:ASP:HB3	2.02	0.40
5:T:72:ILE:HD13	5:T:501:GLU:OE2	2.22	0.40
5:T:154:PHE:HE2	5:T:166:ILE:HD11	1.86	0.40
5:T:355:LEU:CD2	6:U:474:GLU:HA	2.51	0.40
5:T:356:LEU:HD12	5:T:438:PRO:HD3	2.04	0.40
5:T:488:ARG:HD2	5:T:501:GLU:O	2.22	0.40
6:U:238:LYS:HD2	6:U:242:ARG:HG3	2.04	0.40
6:U:471:ASP:OD1	6:U:471:ASP:N	2.54	0.40
1:K:158:VAL:HG22	2:M:840:ILE:HG21	2.03	0.40
1:L:138:GLN:HA	1:L:141:ASN:HB3	2.04	0.40
2:M:856:LEU:HD11	2:M:875:PHE:CD1	2.57	0.40
3:Q:50:ASP:H	3:Q:53:VAL:HG12	1.87	0.40
3:Q:106:LEU:HB2	3:Q:121:PHE:HB2	2.04	0.40
4:F:217:LEU:CD2	4:F:218:PRO:HD3	2.49	0.40
4:F:770:LEU:O	4:F:774:GLU:HG3	2.21	0.40
4:F:892:LEU:HD23	4:F:908:ASP:HA	2.04	0.40
4:F:954:GLY:HA3	4:F:959:TYR:CD1	2.57	0.40
4:F:1220:LEU:O	4:F:1224:PHE:HB2	2.21	0.40
4:F:1431:LEU:O	4:F:1434:VAL:HG13	2.22	0.40
4:F:1627:LYS:HD3	4:F:1627:LYS:HA	1.87	0.40
4:F:1727:ARG:NH2	4:F:1770:GLN:O	2.53	0.40
4:F:2158:ARG:NH2	4:F:2722:ARG:HH21	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:2213:ASN:O	4:F:2216:LEU:HB3	2.22	0.40
4:F:2382:VAL:O	4:F:2386:LEU:N	2.47	0.40
4:F:2517:LEU:O	4:F:2520:ILE:HG22	2.22	0.40
4:F:3135:LEU:O	4:F:3139:GLN:HG2	2.22	0.40
4:F:3480:LEU:O	4:F:3484:THR:HG23	2.22	0.40
5:G:261:LEU:O	5:G:268:VAL:HA	2.21	0.40
5:G:262:LYS:HA	5:G:267:ILE:O	2.22	0.40
6:H:283:THR:O	6:H:285:LYS:HG2	2.22	0.40
6:H:366:ALA:O	6:H:368:ARG:NH1	2.55	0.40
6:H:401:ALA:HB2	7:I:25:DA:OP1	2.21	0.40
7:I:27:DC:H1'	8:J:31:DT:N3	2.29	0.40
4:A:393:LYS:HD3	4:A:1687:HIS:CG	2.56	0.40
4:A:418:ALA:O	4:A:422:LEU:HG	2.22	0.40
4:A:490:ILE:O	4:A:622:ALA:HB1	2.21	0.40
4:A:634:LEU:HG	4:A:676:ASN:OD1	2.22	0.40
4:A:1082:PHE:HE1	4:A:1089:PHE:CE2	2.40	0.40
4:A:1852:LYS:HA	4:A:1918:LEU:HD22	2.04	0.40
4:A:1863:PHE:CD2	4:A:1933:LEU:HD13	2.56	0.40
4:A:2257:PHE:CD1	4:A:2299:TYR:HA	2.56	0.40
4:A:2461:PHE:O	4:A:2464:HIS:ND1	2.27	0.40
4:A:2528:GLU:OE1	4:A:2528:GLU:N	2.50	0.40
4:A:2873:PRO:CG	4:A:2922:ARG:HG2	2.50	0.40
4:A:3903:HIS:O	4:A:3906:SER:OG	2.34	0.40
4:A:4061:CYS:SG	4:A:4065:LEU:HD12	2.61	0.40
5:B:259:LEU:HD23	5:B:259:LEU:HA	1.84	0.40
9:D:27:DC:OP1	10:E:32:DT:H3'	2.21	0.40
4:S:19:LEU:HB3	4:S:67:VAL:HG12	2.03	0.40
4:S:131:LEU:HD13	4:S:173:LYS:C	2.42	0.40
4:S:466:LEU:HD23	4:S:544:ILE:HG22	2.03	0.40
4:S:738:HIS:HB3	4:S:779:TYR:HB3	2.03	0.40
4:S:798:GLY:O	4:S:799:TYR:HB2	2.21	0.40
4:S:903:PRO:HA	4:S:2819:GLU:HG3	2.03	0.40
4:S:993:HIS:HA	4:S:1039:TRP:HE1	1.86	0.40
4:S:1070:PRO:HD2	4:S:3743:HIS:CB	2.52	0.40
4:S:1882:SER:OG	4:S:1883:ARG:NH2	2.55	0.40
4:S:2485:ARG:HA	4:S:2499:PHE:CD1	2.56	0.40
4:S:2511:ILE:HD11	4:S:2553:HIS:HB2	2.02	0.40
4:S:3997:LEU:HD22	4:S:4001:THR:HG21	2.03	0.40
5:T:55:ASP:N	5:T:55:ASP:OD1	2.54	0.40
5:T:493:LEU:HD22	6:U:331:MET:SD	2.62	0.40
6:U:44:ARG:NH1	6:U:230:SER:HA	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:126:LYS:HE3	6:U:126:LYS:HB3	1.95	0.40
6:U:336:GLU:HA	6:U:399:LYS:HA	2.03	0.40
6:U:602:VAL:HG11	6:U:642:PHE:CZ	2.56	0.40
6:U:613:SER:HB3	6:U:655:PHE:CE1	2.57	0.40
6:U:636:ILE:HB	6:U:640:ARG:HH11	1.87	0.40
7:V:44:DG:C5	7:V:45:DG:H2'	2.57	0.40
3:Y:13:TRP:CZ3	3:Y:24:LEU:HB3	2.57	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	K	199/336 (59%)	178 (89%)	19 (10%)	2 (1%)	15	55
1	L	191/336 (57%)	169 (88%)	19 (10%)	3 (2%)	9	44
1	N	199/336 (59%)	179 (90%)	20 (10%)	0	100	100
1	O	191/336 (57%)	171 (90%)	20 (10%)	0	100	100
2	M	256/911 (28%)	234 (91%)	22 (9%)	0	100	100
2	P	256/911 (28%)	233 (91%)	22 (9%)	1 (0%)	34	72
3	Q	214/299 (72%)	191 (89%)	23 (11%)	0	100	100
3	R	214/299 (72%)	196 (92%)	18 (8%)	0	100	100
3	X	214/299 (72%)	190 (89%)	24 (11%)	0	100	100
3	Y	214/299 (72%)	198 (92%)	16 (8%)	0	100	100
4	A	3448/4128 (84%)	3149 (91%)	294 (8%)	5 (0%)	51	86
4	F	3463/4128 (84%)	3030 (88%)	419 (12%)	14 (0%)	34	72
4	S	3464/4128 (84%)	3094 (89%)	361 (10%)	9 (0%)	41	77
5	B	463/609 (76%)	403 (87%)	59 (13%)	1 (0%)	47	81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	G	485/609 (80%)	436 (90%)	49 (10%)	0	100	100
5	T	466/609 (76%)	412 (88%)	54 (12%)	0	100	100
6	C	499/732 (68%)	443 (89%)	54 (11%)	2 (0%)	34	72
6	H	636/732 (87%)	549 (86%)	87 (14%)	0	100	100
6	U	636/732 (87%)	552 (87%)	82 (13%)	2 (0%)	41	77
All	All	15708/20769 (76%)	14007 (89%)	1662 (11%)	39 (0%)	50	81

All (39) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	K	138	GLN
4	F	218	PRO
4	F	955	ALA
4	F	956	PRO
4	F	2291	GLN
4	S	956	PRO
4	S	1126	GLN
4	S	1127	CYS
4	S	2291	GLN
6	U	509	GLN
1	L	137	ASN
4	F	3681	LYS
4	F	3683	CYS
4	F	3688	SER
4	A	333	MET
4	S	955	ALA
4	F	178	LEU
4	F	3170	ASP
4	F	3578	LEU
4	F	3685	PRO
4	A	1055	ASN
4	S	266	ALA
6	U	49	GLU
4	F	2265	PRO
5	B	341	ASP
6	C	229	GLU
4	S	263	LYS
1	L	62	GLU
4	F	101	ALA
4	A	432	THR

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Mol	Chain	Res	Type
4	A	1723	PRO
4	S	98	GLN
1	L	64	GLY
4	F	3787	GLN
6	C	461	MET
4	S	1723	PRO
2	P	796	ILE
1	K	134	ILE
4	A	1053	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	K	176/303 (58%)	174 (99%)	2 (1%)	73	84
1	L	173/303 (57%)	165 (95%)	8 (5%)	27	52
1	N	179/303 (59%)	176 (98%)	3 (2%)	60	78
1	O	173/303 (57%)	173 (100%)	0	100	100
2	M	232/808 (29%)	231 (100%)	1 (0%)	91	94
2	P	233/808 (29%)	226 (97%)	7 (3%)	41	63
3	Q	191/262 (73%)	190 (100%)	1 (0%)	88	93
3	R	194/262 (74%)	193 (100%)	1 (0%)	88	93
3	X	193/262 (74%)	189 (98%)	4 (2%)	53	72
3	Y	194/262 (74%)	193 (100%)	1 (0%)	88	93
4	A	2916/3671 (79%)	2899 (99%)	17 (1%)	86	92
4	F	2987/3671 (81%)	2949 (99%)	38 (1%)	69	81
4	S	3020/3671 (82%)	3001 (99%)	19 (1%)	86	92
5	B	387/548 (71%)	386 (100%)	1 (0%)	92	95
5	G	436/548 (80%)	435 (100%)	1 (0%)	93	96
5	T	422/548 (77%)	422 (100%)	0	100	100
6	C	426/649 (66%)	423 (99%)	3 (1%)	84	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	H	567/649 (87%)	562 (99%)	5 (1%)	78	87
6	U	573/649 (88%)	569 (99%)	4 (1%)	84	90
All	All	13672/18480 (74%)	13556 (99%)	116 (1%)	82	89

All (116) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	K	65	LYS
1	K	140	LYS
1	L	26	LYS
1	L	61	MET
1	L	62	GLU
1	L	63	LYS
1	L	136	GLU
1	L	138	GLN
1	L	146	LYS
1	L	169	LYS
2	M	782	LYS
1	N	144	LEU
1	N	145	GLN
1	N	146	LYS
2	P	711	ASN
2	P	741	ARG
2	P	788	THR
2	P	791	GLU
2	P	792	MET
2	P	795	LEU
2	P	883	LYS
3	Q	176	ARG
3	R	178	ARG
4	F	61	ARG
4	F	70	ARG
4	F	87	LYS
4	F	99	LYS
4	F	119	ARG
4	F	310	LYS
4	F	379	LYS
4	F	668	LYS
4	F	960	GLN
4	F	963	LYS
4	F	1038	LYS

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Mol	Chain	Res	Type
4	F	1143	VAL
4	F	1329	ARG
4	F	1445	ARG
4	F	1727	ARG
4	F	1759	LEU
4	F	1760	GLU
4	F	1768	ARG
4	F	1820	VAL
4	F	1822	ARG
4	F	2263	LYS
4	F	2266	ASN
4	F	2308	SER
4	F	3067	LYS
4	F	3167	ARG
4	F	3573	ASN
4	F	3575	LEU
4	F	3577	GLN
4	F	3621	LYS
4	F	3685	PRO
4	F	3691	LYS
4	F	3774	ILE
4	F	3775	LEU
4	F	3789	ARG
4	F	3901	ARG
4	F	3958	LEU
4	F	3959	MET
4	F	4090	ARG
5	G	252	ARG
6	H	156	LYS
6	H	286	LYS
6	H	332	LYS
6	H	399	LYS
6	H	669	LYS
4	A	76	ILE
4	A	80	GLU
4	A	432	THR
4	A	746	ARG
4	A	891	ARG
4	A	1741	ASP
4	A	1806	ARG
4	A	2221	LYS
4	A	2452	ARG

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Mol	Chain	Res	Type
4	A	2484	TYR
4	A	2835	LYS
4	A	3009	LYS
4	A	3196	LYS
4	A	3696	ARG
4	A	3710	LYS
4	A	3845	LYS
4	A	4041	ARG
5	B	35	ARG
6	C	233	LYS
6	C	239	LYS
6	C	271	ARG
4	S	94	GLU
4	S	95	LYS
4	S	96	MET
4	S	476	ARG
4	S	1124	ILE
4	S	1125	GLN
4	S	1727	ARG
4	S	1768	ARG
4	S	1960	LYS
4	S	2311	ARG
4	S	2347	LYS
4	S	2369	LYS
4	S	2384	PHE
4	S	2385	LEU
4	S	3390	GLN
4	S	3621	LYS
4	S	3874	ARG
4	S	4068	HIS
4	S	4090	ARG
6	U	50	ASN
6	U	332	LYS
6	U	508	ILE
6	U	509	GLN
3	X	56	GLN
3	X	64	ARG
3	X	72	PHE
3	X	73	LEU
3	Y	178	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (100) such sidechains are listed below:

Mol	Chain	Res	Type
1	K	148	ASN
2	M	773	GLN
1	O	138	GLN
1	O	145	GLN
2	P	692	ASN
2	P	745	HIS
3	Q	21	ASN
3	Q	46	HIS
3	Q	56	GLN
3	Q	75	HIS
3	Q	133	GLN
3	R	75	HIS
3	R	133	GLN
3	R	147	GLN
4	F	16	GLN
4	F	865	GLN
4	F	960	GLN
4	F	978	GLN
4	F	993	HIS
4	F	1043	GLN
4	F	1049	GLN
4	F	1083	ASN
4	F	1509	GLN
4	F	1534	ASN
4	F	1611	GLN
4	F	1613	HIS
4	F	2348	GLN
4	F	2352	HIS
4	F	2353	GLN
4	F	2493	ASN
4	F	2496	GLN
4	F	2777	HIS
4	F	2841	ASN
4	F	3130	GLN
4	F	3148	GLN
4	F	3150	ASN
4	F	3326	GLN
4	F	3457	ASN
4	F	3573	ASN
4	F	3580	ASN
4	F	3664	ASN
4	F	3697	ASN
4	F	3716	HIS

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Mol	Chain	Res	Type
4	F	3927	ASN
4	F	4088	ASN
5	G	163	HIS
5	G	171	ASN
5	G	176	HIS
5	G	426	GLN
5	G	433	GLN
5	G	502	GLN
6	H	33	GLN
6	H	201	GLN
6	H	312	GLN
6	H	450	GLN
6	H	500	HIS
6	H	509	GLN
6	H	510	GLN
4	A	278	HIS
4	A	753	GLN
4	A	771	ASN
4	A	1476	HIS
4	A	1737	ASN
4	A	2527	HIS
4	A	2830	ASN
4	A	2859	GLN
4	A	3037	GLN
4	A	3104	GLN
4	A	3133	GLN
4	A	3166	ASN
4	A	3339	ASN
4	A	3422	GLN
6	C	119	GLN
4	S	16	GLN
4	S	625	ASN
4	S	982	GLN
4	S	1390	GLN
4	S	1614	GLN
4	S	2291	GLN
4	S	2514	ASN
4	S	2834	GLN
4	S	3185	ASN
4	S	3590	ASN
4	S	3664	ASN
4	S	3697	ASN

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Mol	Chain	Res	Type
4	S	3915	HIS
4	S	4015	ASN
4	S	4068	HIS
5	T	275	ASN
5	T	304	ASN
5	T	359	HIS
5	T	360	HIS
5	T	458	GLN
5	T	489	ASN
6	U	188	HIS
6	U	201	GLN
6	U	404	GLN
6	U	500	HIS
6	U	597	ASN
3	Y	11	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.

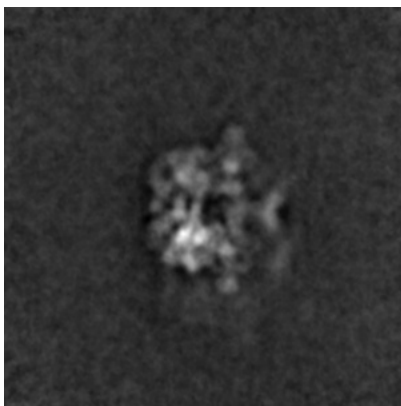
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-16145. These allow visual inspection of the internal detail of the map and identification of artifacts.

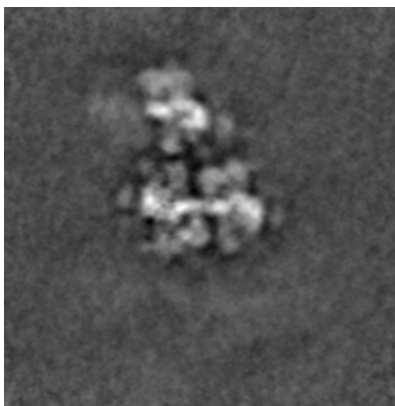
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

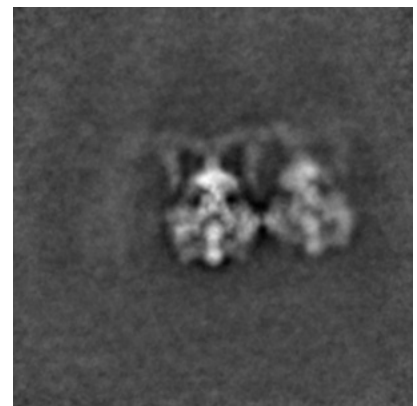
6.1.1 Primary map



X

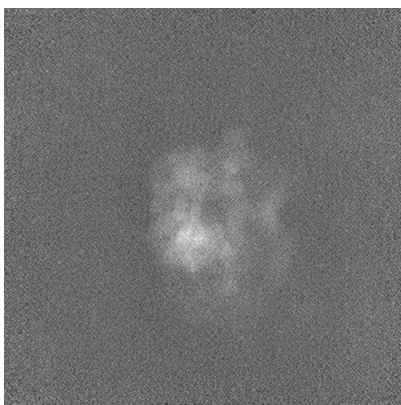


Y

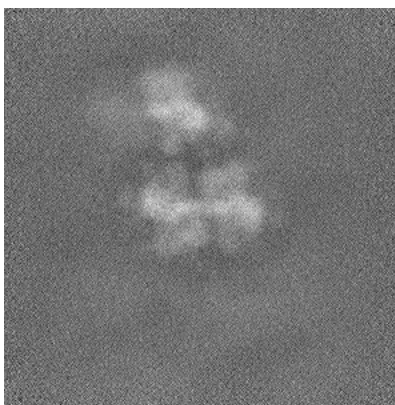


Z

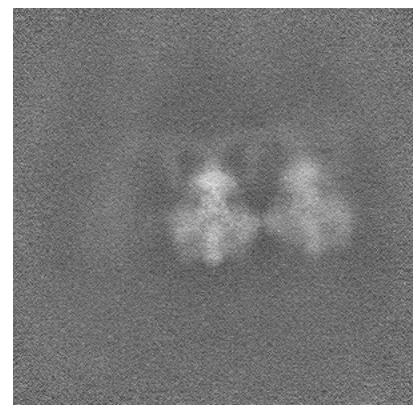
6.1.2 Raw map



X



Y

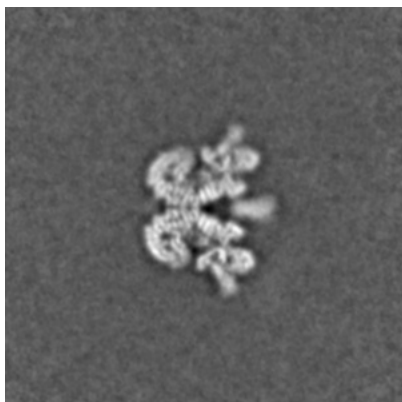


Z

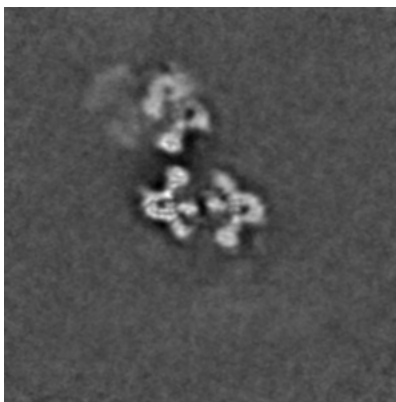
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

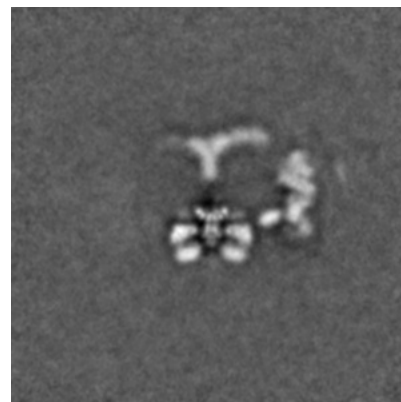
6.2.1 Primary map



X Index: 270

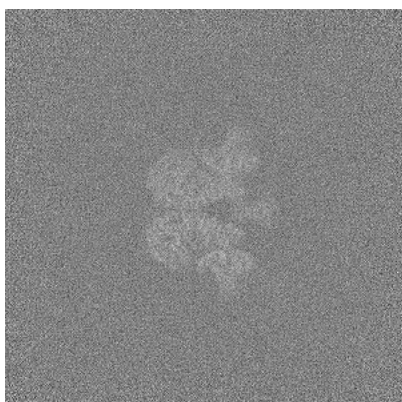


Y Index: 270

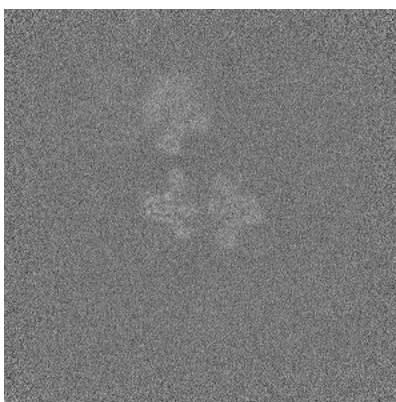


Z Index: 270

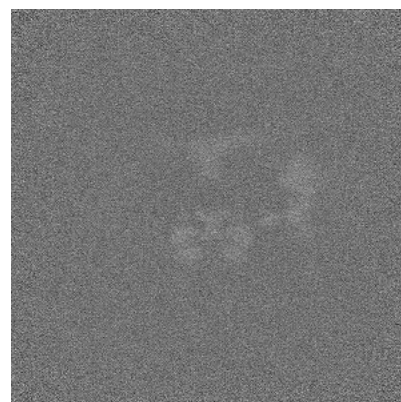
6.2.2 Raw map



X Index: 270



Y Index: 270

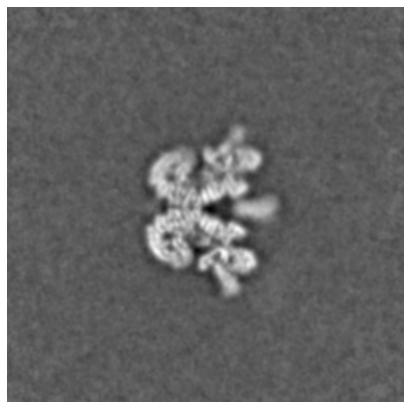


Z Index: 270

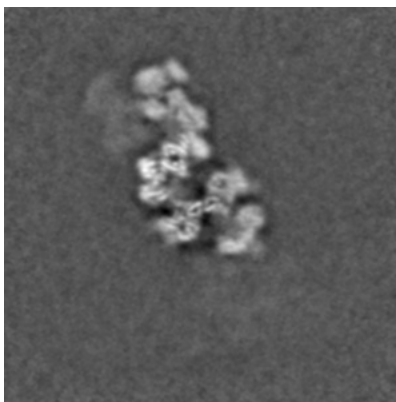
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

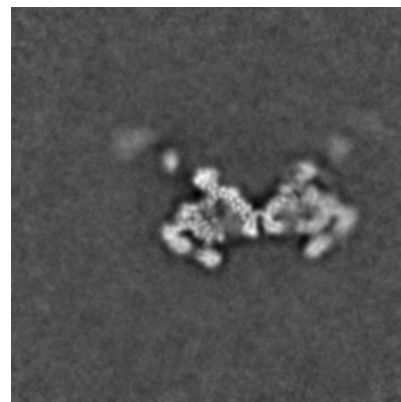
6.3.1 Primary map



X Index: 271

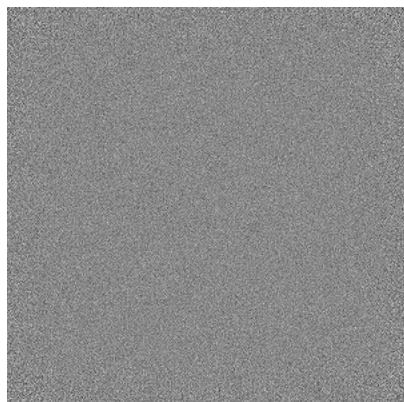


Y Index: 251

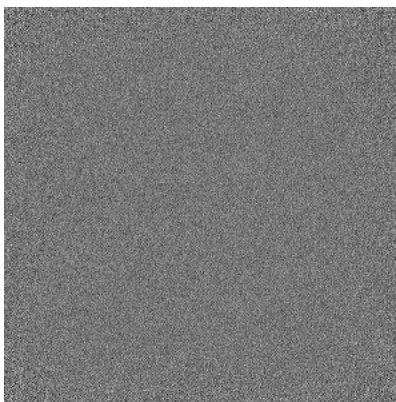


Z Index: 233

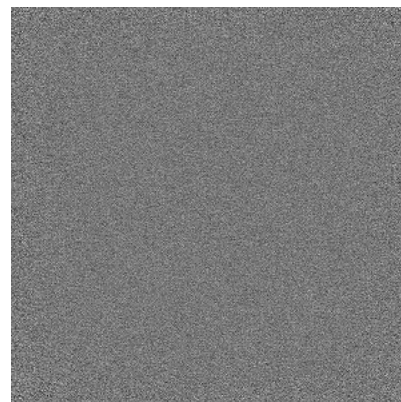
6.3.2 Raw map



X Index: 0



Y Index: 0

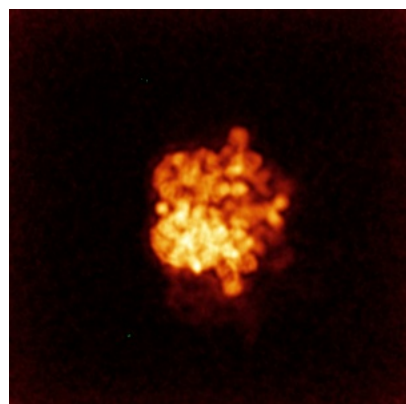


Z Index: 0

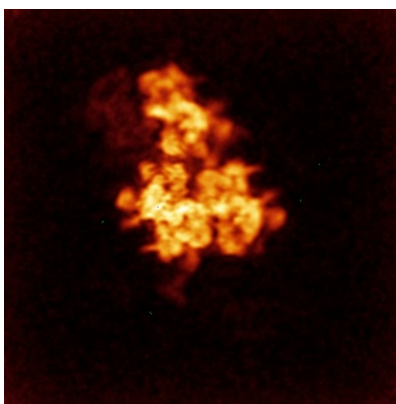
The images above show the largest variance slices of the map in three orthogonal directions.

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

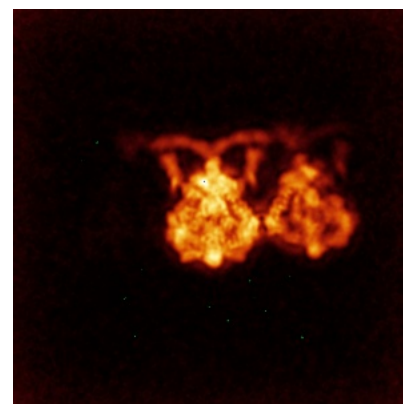
6.4.1 Primary map



X

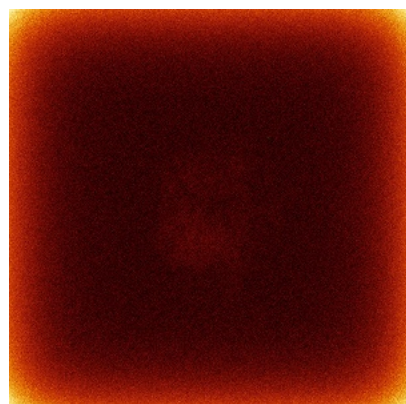


Y

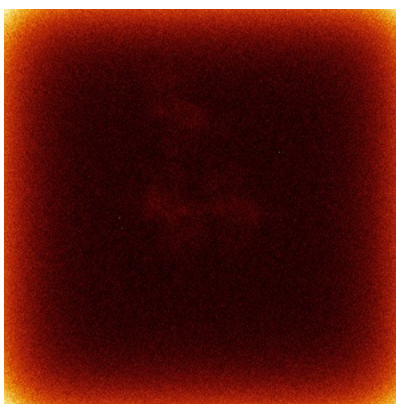


Z

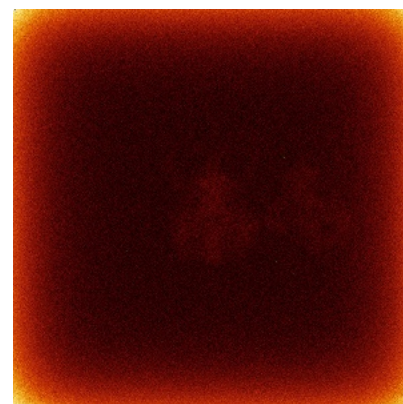
6.4.2 Raw map



X



Y

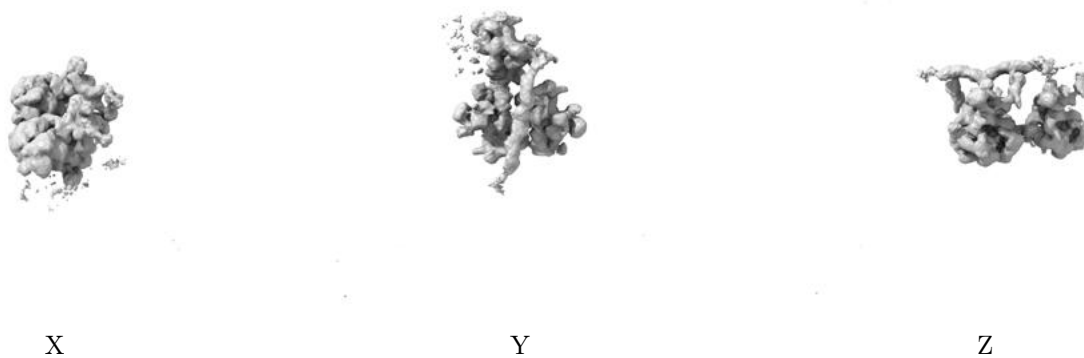


Z

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

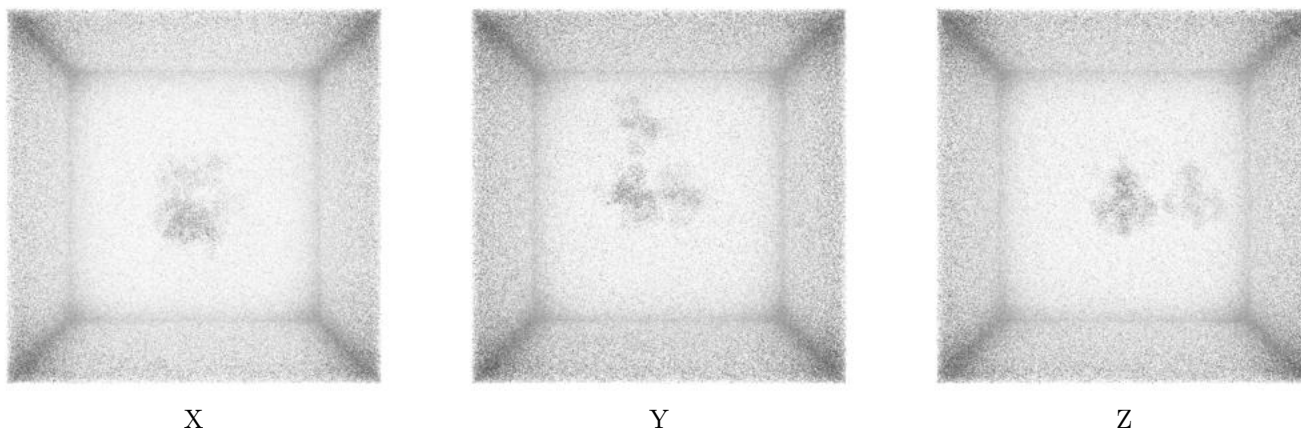
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.066. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

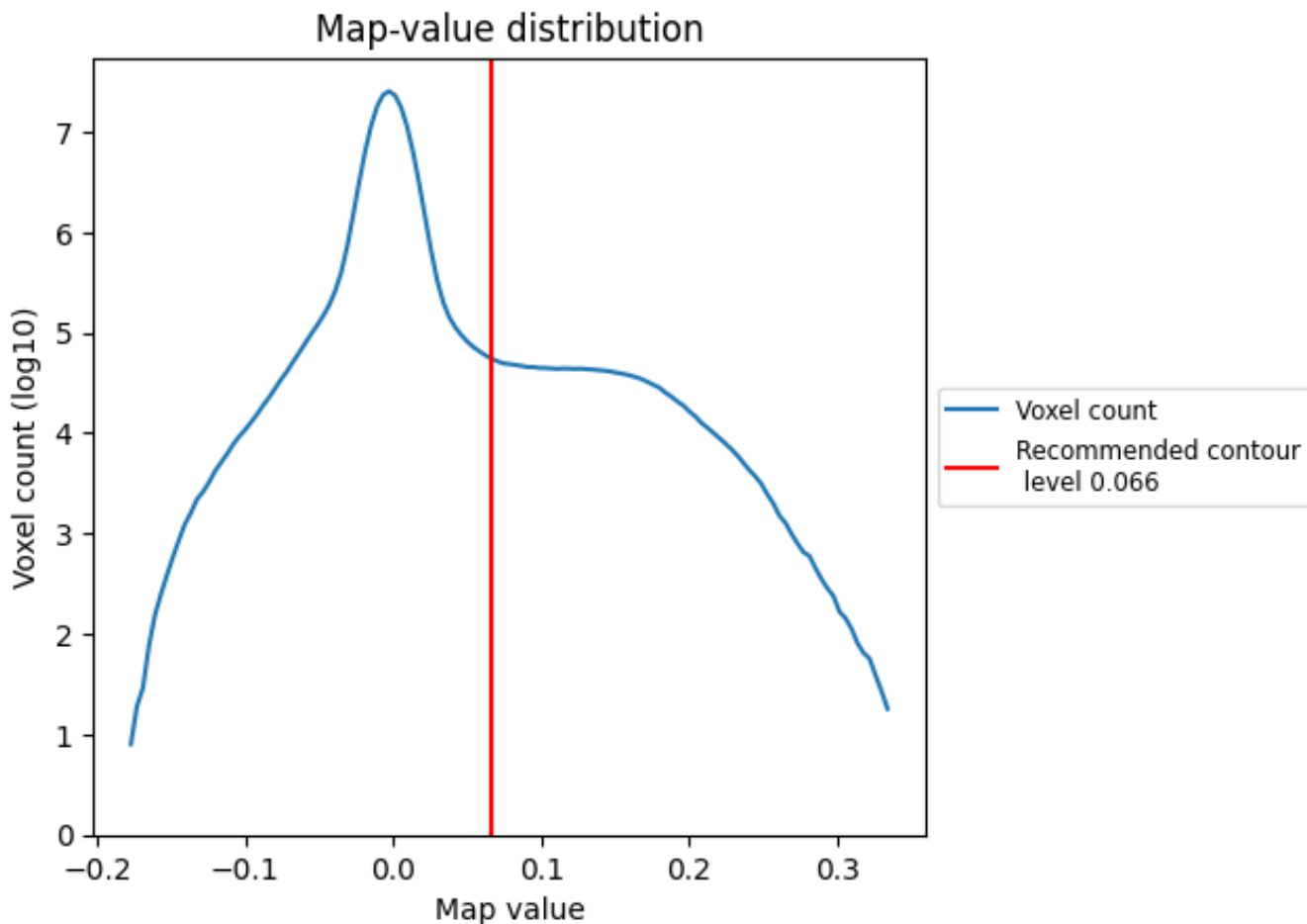
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

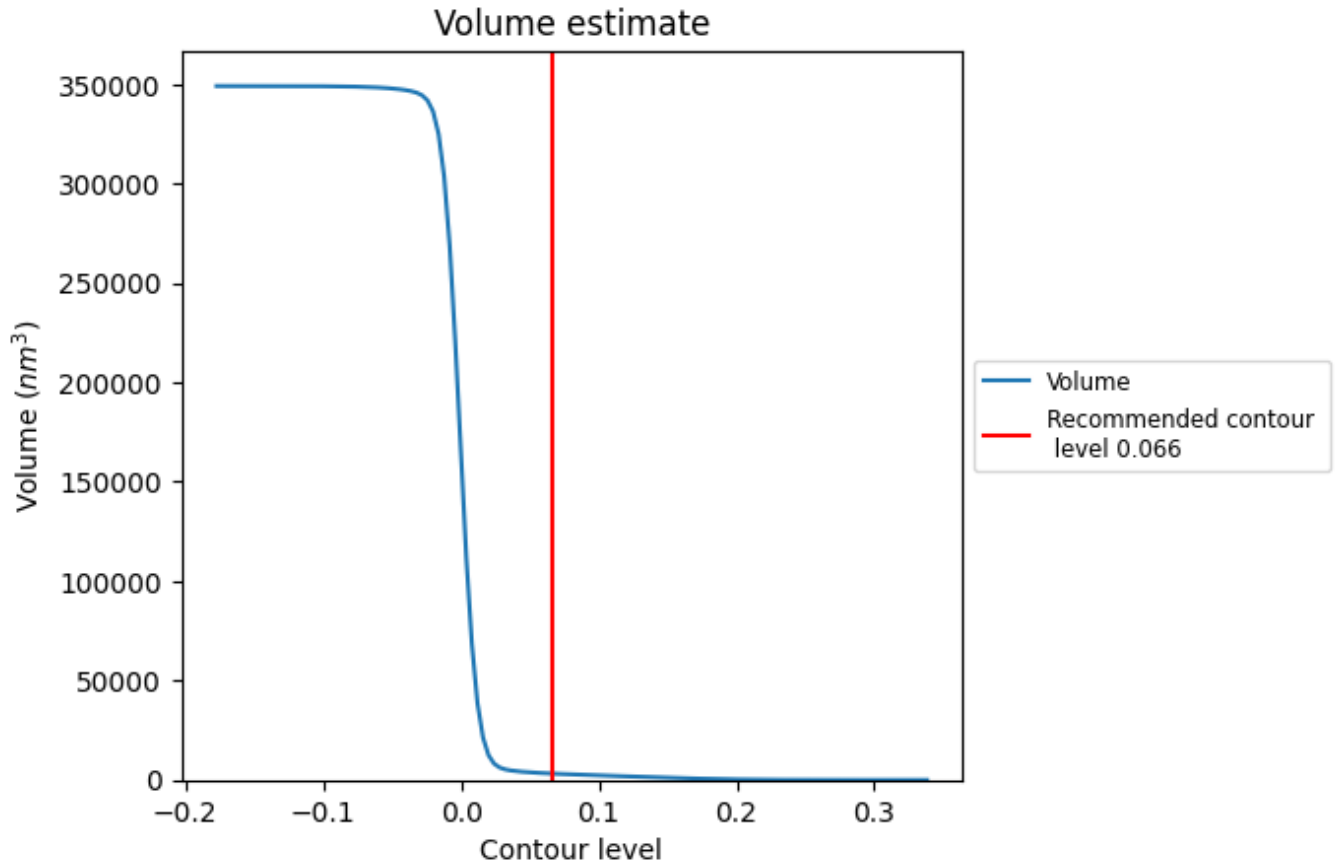
This section contains the results of statistical analysis of the map.

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.

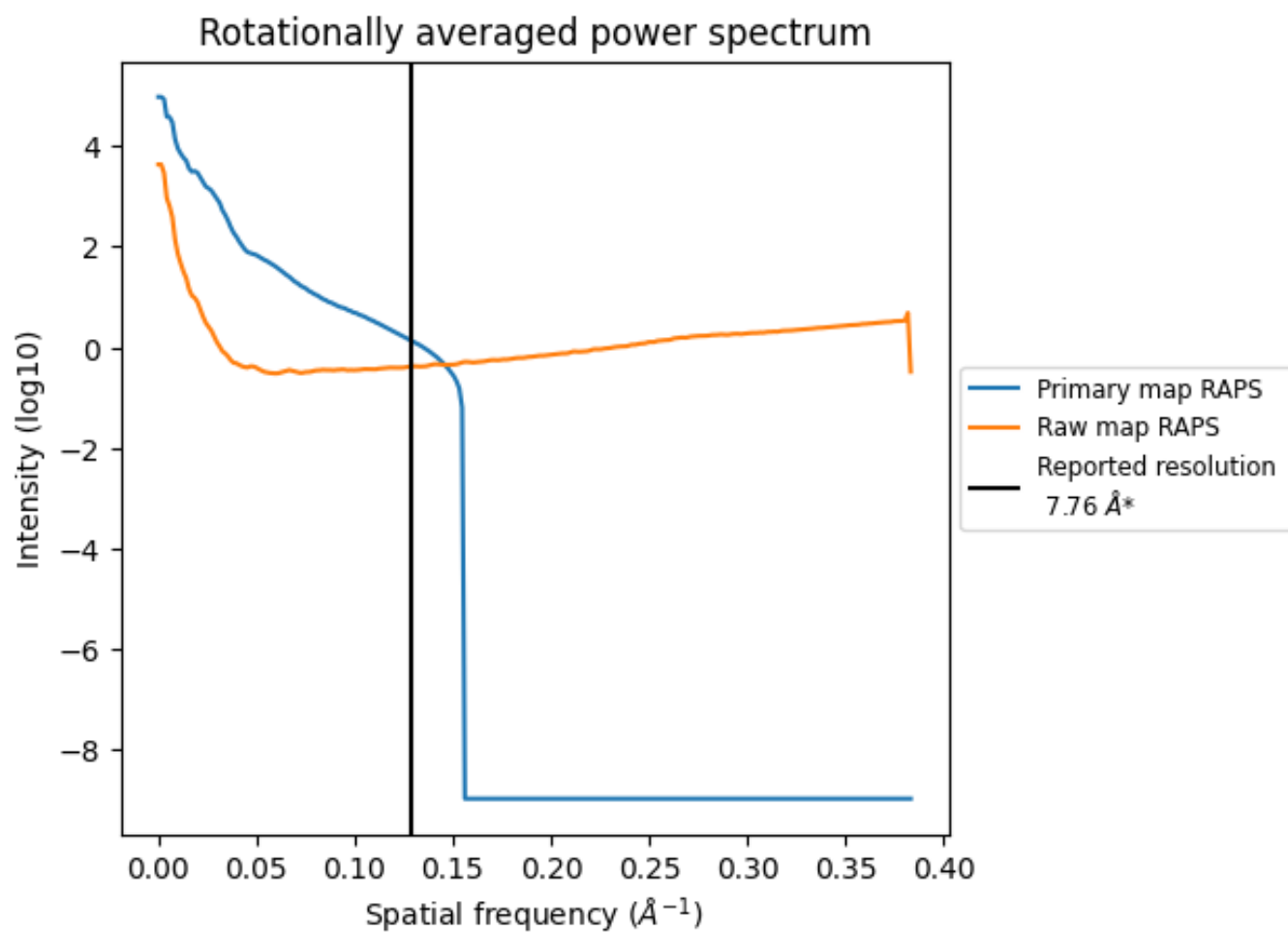
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3218 nm³; this corresponds to an approximate mass of 2907 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](#)

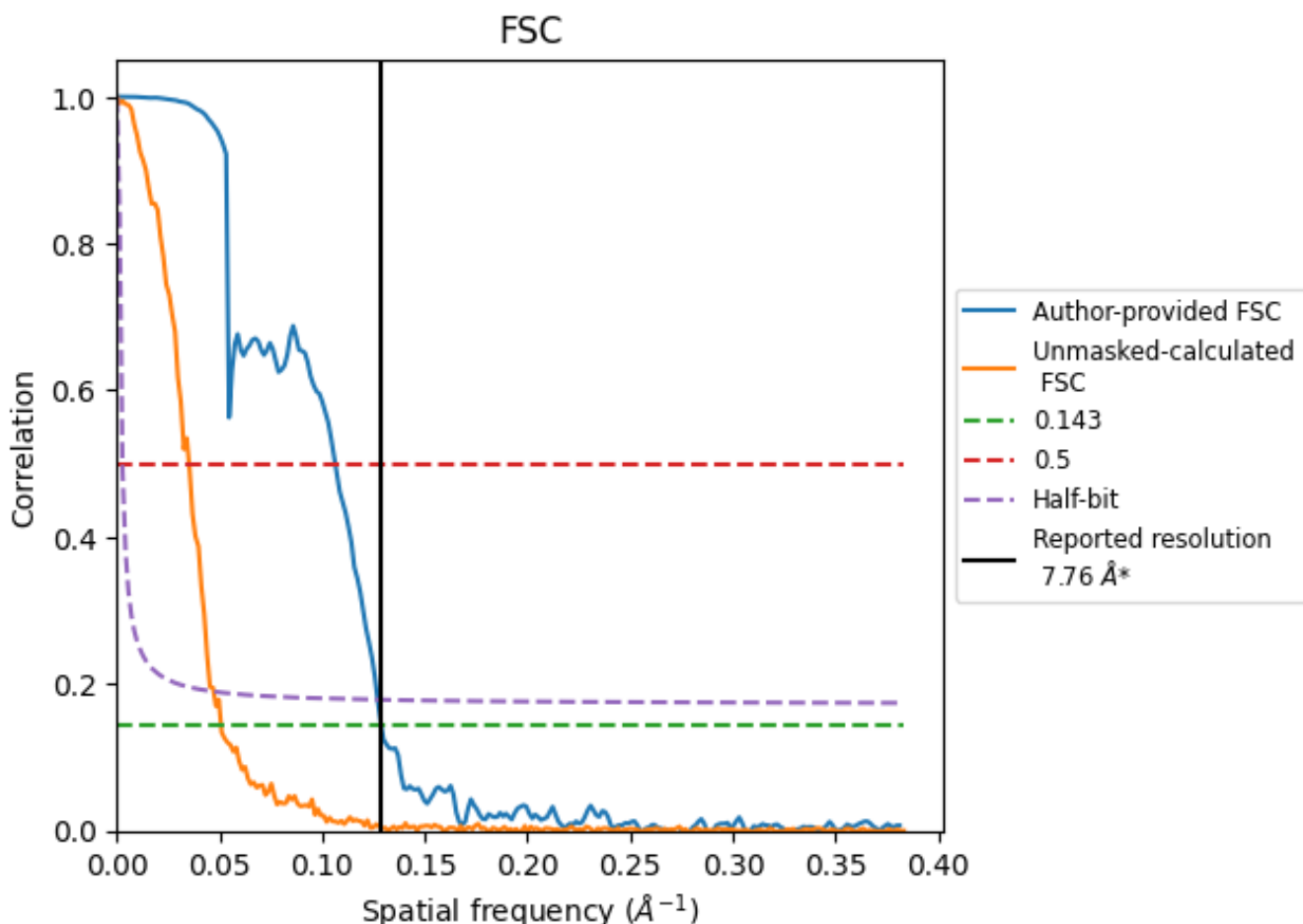


*Reported resolution corresponds to spatial frequency of 0.129 Å⁻¹

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 0.129 Å⁻¹

8.2 Resolution estimates [i](#)

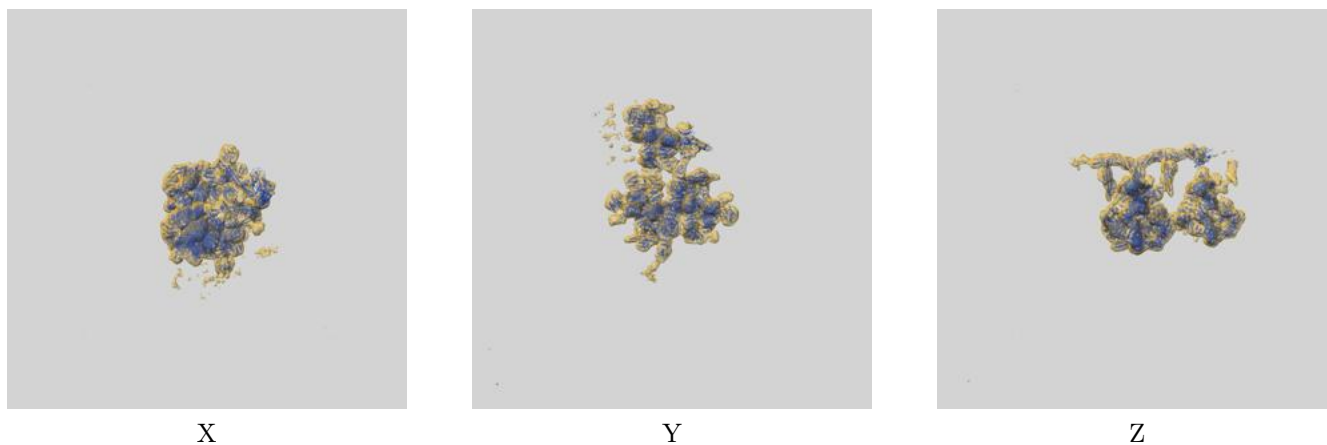
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.76	-	-
Author-provided FSC curve	7.76	9.40	7.87
Unmasked-calculated*	19.69	28.41	21.19

*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 19.69 differs from the reported value 7.76 by more than 10 %

9 Map-model fit [i](#)

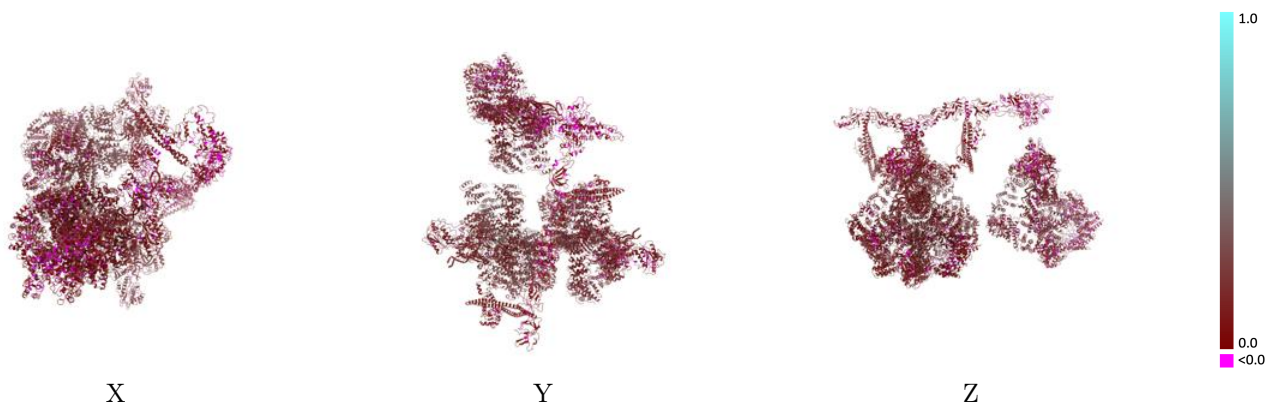
This section contains information regarding the fit between EMDB map EMD-16145 and PDB model 8BOT. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



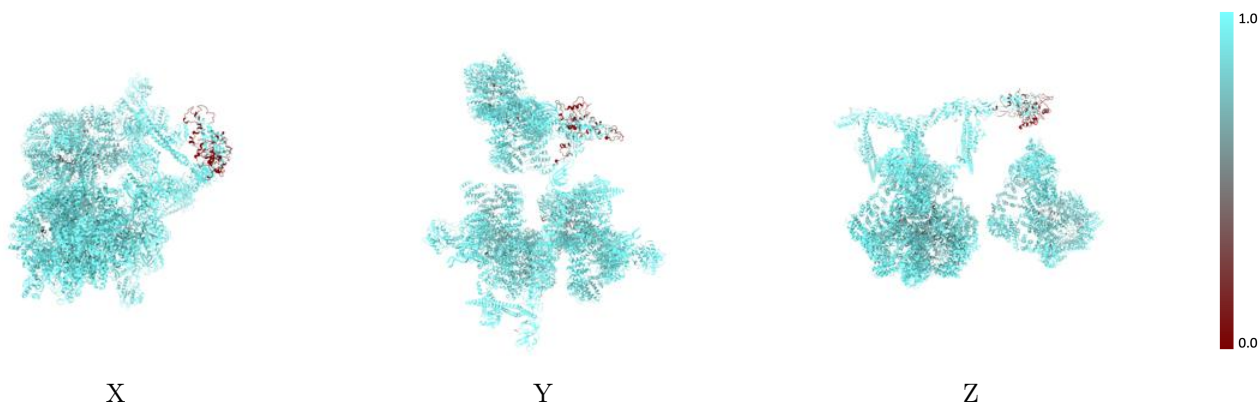
The images above show the 3D surface view of the map at the recommended contour level 0.066 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



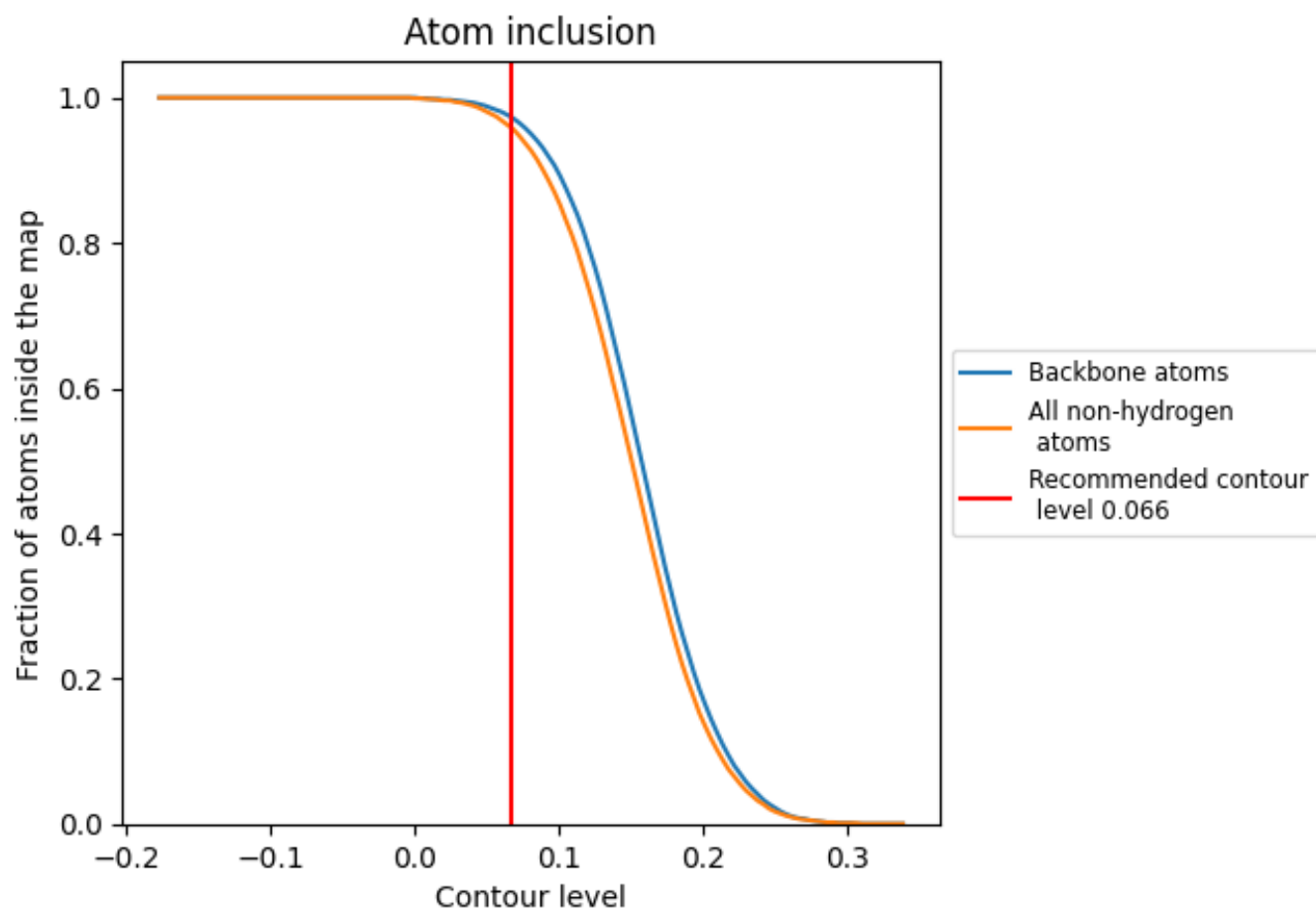
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.066).





















































9.4 Atom inclusion [i](#)



At the recommended contour level, 97% of all backbone atoms, 96% 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 (0.066) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9600	 0.1280
A	 0.9590	 0.1310
B	 0.9880	 0.1210
C	 0.9700	 0.1010
D	 0.9960	 0.1890
E	 0.9840	 0.1540
F	 0.9720	 0.1730
G	 0.9840	 0.1610
H	 0.9910	 0.1450
I	 0.9950	 0.1790
J	 1.0000	 0.1930
K	 0.9820	 0.1000
L	 0.9670	 0.1010
M	 0.9960	 0.1020
N	 0.9790	 0.1060
O	 0.9830	 0.1110
P	 1.0000	 0.1230
Q	 0.9930	 0.0770
R	 0.9700	 0.0840
S	 0.9730	 0.1100
T	 0.9880	 0.0830
U	 0.9900	 0.0810
V	 1.0000	 0.1270
W	 0.9770	 0.1250
X	 0.3270	 0.0590
Y	 0.5760	 0.0680

