



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 12:10 PM UTC

PDB ID : 7K5B / pdb_00007k5b
EMDB ID : EMD-22679
Title : Structure of outer-arm dynein bound to microtubule doublet in microtubule binding state 2 (MTBS-2)
Authors : Rao, Q.; Zhang, K.
Deposited on : 2020-09-16
Resolution : 4.50 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

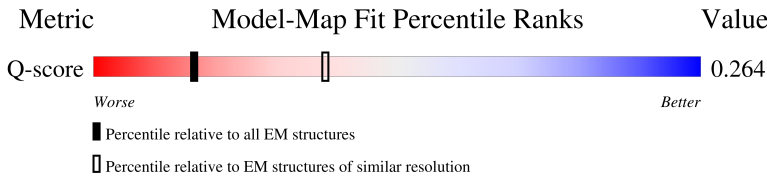
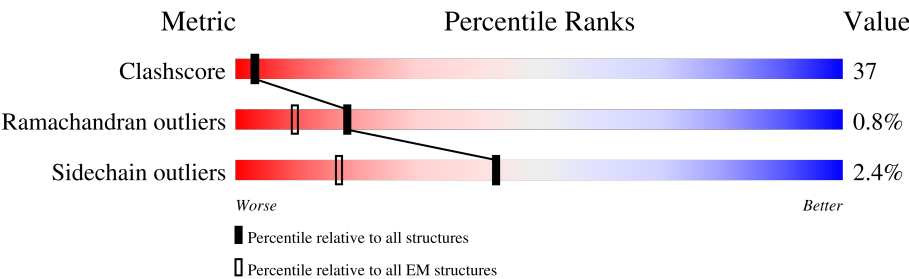
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data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

1 Overall quality at a glance

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

The reported resolution of this entry is 4.50 Å.

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



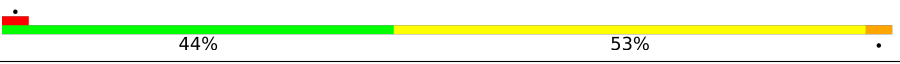
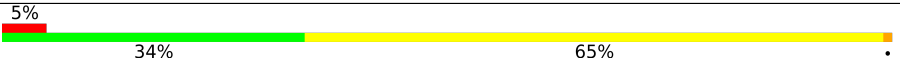
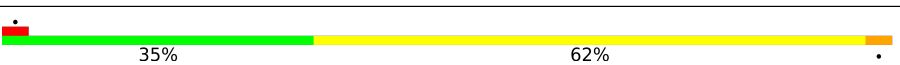
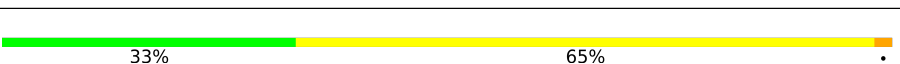
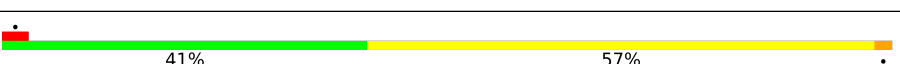
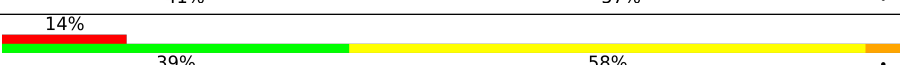
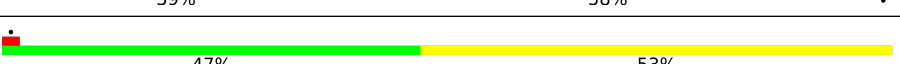
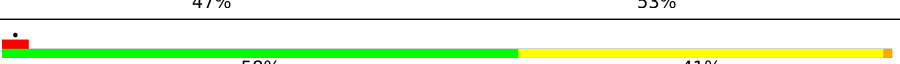
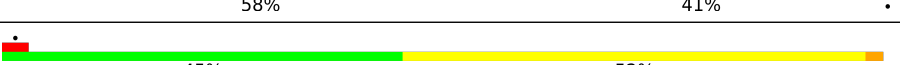
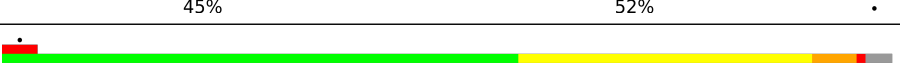
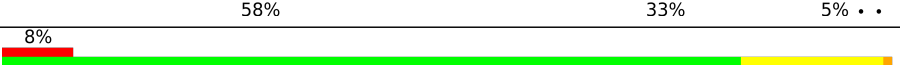
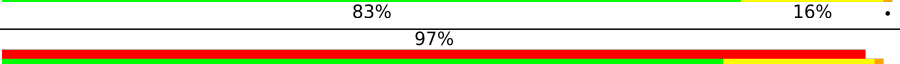
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2937 (4.00 - 5.00)

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

Mol	Chain	Length	Quality of chain
1	A	4615	 6% 71% 24% . .
2	B	4588	 71% 26% . .
3	C	3947	 81% 18% .
4	D	595	 6% 41% 53% . .

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Mol	Chain	Length	Quality of chain
5	E	557	
6	F	128	
7	G	151	
8	H	91	
9	I	106	
10	J	95	
11	K	90	
12	L	111	
13	M	87	
14	N	114	
15	O	120	
16	P	112	
17	Q	192	
18	R	150	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
19	ADP	A	4701	-	-	X	-
19	ADP	A	4901	-	-	X	-
19	ADP	B	5501	-	-	X	-
19	ADP	C	4702	-	-	X	-
20	ATP	A	4801	-	-	X	-
20	ATP	B	5601	-	-	X	-
21	MG	A	5002	-	-	X	-

2 Entry composition [i](#)

There are 21 unique types of molecules in this entry. The entry contains 119573 atoms, of which 156 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 Dynein heavy chain, outer arm protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	4453	Total	C	N	O	S	0	0
			33975	21575	5802	6440	158		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	3238	ASN	ASP	conflict	UNP Q22A67

- Molecule 2 is a protein called Outer arm dynein beta heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	4524	Total	C	N	O	S	0	0
			34751	22080	5950	6571	150		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	36	ALA	GLN	conflict	UNP I7M9J2
B	1287	ALA	LEU	conflict	UNP I7M9J2
B	3977	ALA	SER	conflict	UNP I7M9J2

- Molecule 3 is a protein called gamma heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	3947	Total	C	N	O	S	0	0
			30427	19395	5159	5724	149		

- Molecule 4 is a protein called Dynein intermediate chain 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	579	Total	C	N	O	S	0	0
			4680	2975	791	883	31		

- Molecule 5 is a protein called Flagellar outer dynein arm intermediate protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	555	Total	C	N	O	S	0	0
			4440	2798	762	858	22		

- Molecule 6 is a protein called Dynein light chain roadblock-type 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	128	Total	C	N	O	S	0	0
			996	625	176	193	2		

- Molecule 7 is a protein called Dynein light chain roadblock-type 2 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	151	Total	C	N	O	S	0	0
			1024	636	184	203	1		

- Molecule 8 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	91	Total	C	N	O	S	0	0
			750	483	124	139	4		

- Molecule 9 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	106	Total	C	N	O	S	0	0
			827	526	134	161	6		

- Molecule 10 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	95	Total	C	N	O	S	0	0
			807	527	135	140	5		

- Molecule 11 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	90	Total	C	N	O	S	0	0
			754	489	124	137	4		

- Molecule 12 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	111	Total	C	N	O	S	0	0
			855	555	145	152	3		

- Molecule 13 is a protein called Dynein light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	M	87	Total	C	N	O	S	0	0
			735	477	123	130	5		

- Molecule 14 is a protein called Dynein light chain tctex-type 1 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	N	114	Total	C	N	O	S	0	0
			852	542	142	165	3		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
N	92	ALA	ASN	conflict	UNP A4VEB3

- Molecule 15 is a protein called Dynein light chain 2A.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	O	120	Total	C	N	O	S	0	0
			994	639	173	179	3		

- Molecule 16 is a protein called Thioredoxin.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	P	109	Total	C	N	O	0	0
			541	323	109	109		

- Molecule 17 is a protein called Dynein light chain 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
17	Q	192	Total	C	N	O	0	0
			1006	610	203	193		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Q	2	ALA	SER	conflict	UNP Q1HGH9

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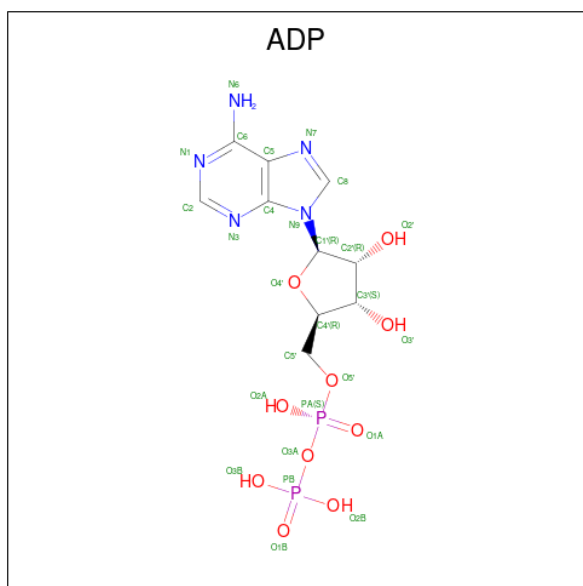
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Chain	Residue	Modelled	Actual	Comment	Reference
Q	179	MET	TYR	conflict	UNP Q1HGH9

- Molecule 18 is a protein called Dynein light chain 4A.

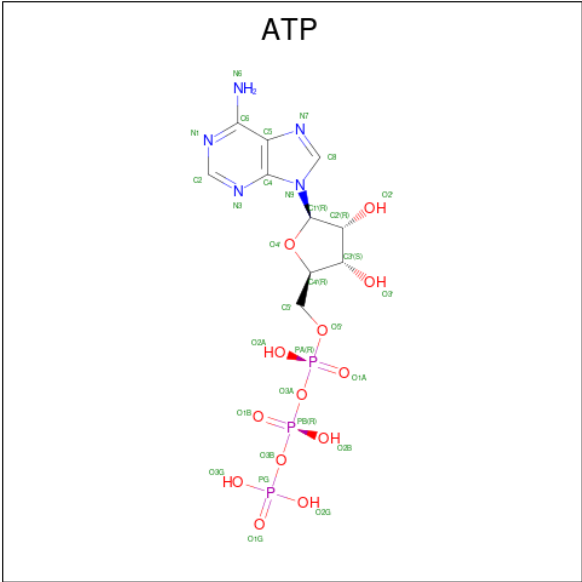
Mol	Chain	Residues	Atoms					AltConf	Trace
18	R	150	Total	C	H	N	O	0	0
			895	439	156	150	150		

- Molecule 19 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms					AltConf
19	A	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	A	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	B	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	B	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	C	1	Total	C	N	O	P	0
			27	10	5	10	2	
19	C	1	Total	C	N	O	P	0
			27	10	5	10	2	

- Molecule 20 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



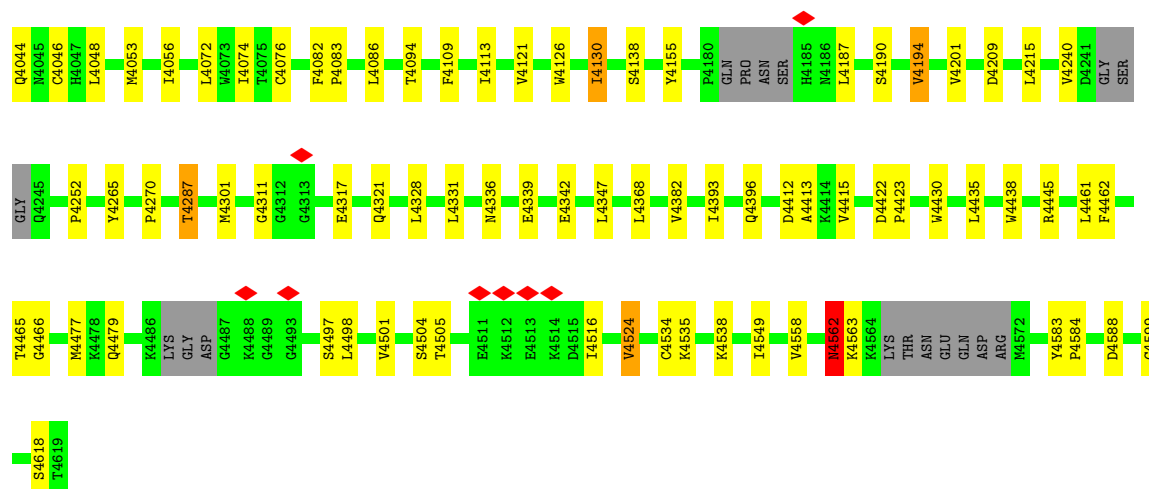
Mol	Chain	Residues	Atoms					AltConf
20	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
20	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
20	C	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 21 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
21	A	3	Total	Mg	0
			3	3	
21	B	3	Total	Mg	0
			3	3	
21	C	3	Total	Mg	0
			3	3	

L1825	K1645	K1580	W1511	D1434	K1342	Y1134	Q1051	LYS	T845	T771
T1828	K1646	L1581	V1512	E1435	D1343	V1135	L1052	ASP	D846	W772
D1829	P1647	E1582	V1513	I1436	L1344	M1136	E1059	THR	F847	T773
W1830	P1648	K1585	K1515	W1440	Q1348	E1137	E1060	GLY	L848	S774
D1831	A1649	K1586	K1516	N1441	M1246	T1138	E1061	ASP	T849	I777
S1832	Q1652	M1587	L1517	D1442	GLY	L1139	I1062	LYS	S850	
F1838	I1653	L1588	W1518	D1443	GLY	E1140	E1063	ALA	K851	Y780
L1839	T1654	E1589	T1519	Q1444	ILE	Q1141	E1064	ASN	N852	L781
L1839	Q1655	A1590	S1520	F1445	SER	I1142	E1065	THR	V853	
K1842	Q1656	L1591	L1521	Q1446	PRO	R1143		LEU	E854	
L1842	Q1657	L1592	E1522	F1447	ALA	Q1146		GLN	G787	
L1845	K1675	K1595	P1523	F1447	GLY			ASN	A858	
C1846	C1676	R1596	V1524	G1448	ALA	I1149		LEU	L788	
I1847	E1677	K1597	F1525	E1247	MET	D1150		LYS	K789	
I1856	G1678	G1528	G1528	Y1280	Y1280	M1151		PRO	K790	
Q1860	N1679	P1600	G1529	Y1263	Y1263	K1152		GLY	L862	
Q1860	I1680	R1601	G1530	Y1264	Y1264	F1153		ALA		
A1861	E1681	F1602	K1452	I1265	I1265	A1074		ASN	K851	
M1862	W1682	Y1603	R1453	P1377	P1377	P1155		THR	N852	
G1868	L1684	V1605	ASP	R1378	R1378	Q1157		LEU	E854	
E1880	L1687	S1606	VAL	K1390	K1390	M1159		GLN	A858	
L1889	L1689	T1608	L1459	L1391	L1391	L1162		ASN	V859	
F1892	L1711	T1609	L1460	N1392	N1392	L1163		LEU	D860	
T1896	S1720	W1548	L1467	Y1393	Y1393	L1167		LYS	D861	
K1909	L1727	K1550	L1471	E1394	E1394	Y1166		PRO	L862	
I1910	N1745	M1551	D1474	K1395	K1395	Q1158		GLY	F930	
L1914	K1758	E1553	L1478	P1396	P1396	E1156		ALA	F931	
V1915	K1758	A1554	F1481	D1397	D1397	Q1157		ASN	Q932	
Q1916	L1764	V1556	N1482	K1398	K1398	E1158		GLY	V932	
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W1920	K1780	K1560	H1486	M1405	M1405	Y1096		LEU	Q936	
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E1925	Q1789	I1562	T1488	A1407	A1407	H1101		ASN	D872	
F1926	H1790	P1563	F1489	LEU	LEU	L1111		GLY	E803	
L1934	Q1791	Q1566	F1490	D1411	D1411	Q1114		LYS	N804	
S1935	T1792	M1567	K1491	E1414	E1414	T1115		THR	R805	
I1962	Q1793	D1568	A1492	E1415	E1415	K1116		LYS	I806	
I1967	T1794	M1569	E1493	S1422	S1422	L1117		LEU	E807	
V1970	F1806	L1570	T1500	Q1426	Q1426	K1121		LEU	N808	
F1973	Q1809	L1573	V1504	L1427	L1427	Q1124		GLN	K811	
	T1814	L1574	N1505	K1428	K1428	P1125		ASP	W812	
		N1578	D1509	L1429	L1429	W1126		THR	V816	
		E1579	P1510	R1430	R1430	K1127		LYS	W817	
				T1431	T1431	D1130		PRO	L818	
				L1433	L1433	E1211		PRO	W819	
						L1212		LEU	H820	
						K1213		LEU	L821	
								ASP	P822	
								GLN	P822	
								ASP	Y883	
								THR	F884	
								LYS	L889	
								PRO	N900	
								LEU	S901	
								SER	T902	
								SER	L830	
								LEU	D831	
								SER	S832	
								LYS	N907	
								LEU	A908	
								THR	L836	
								LEU	Q837	
								LEU	Y840	
								GLN	I841	
								ASN	V913	
								GLN	K844	

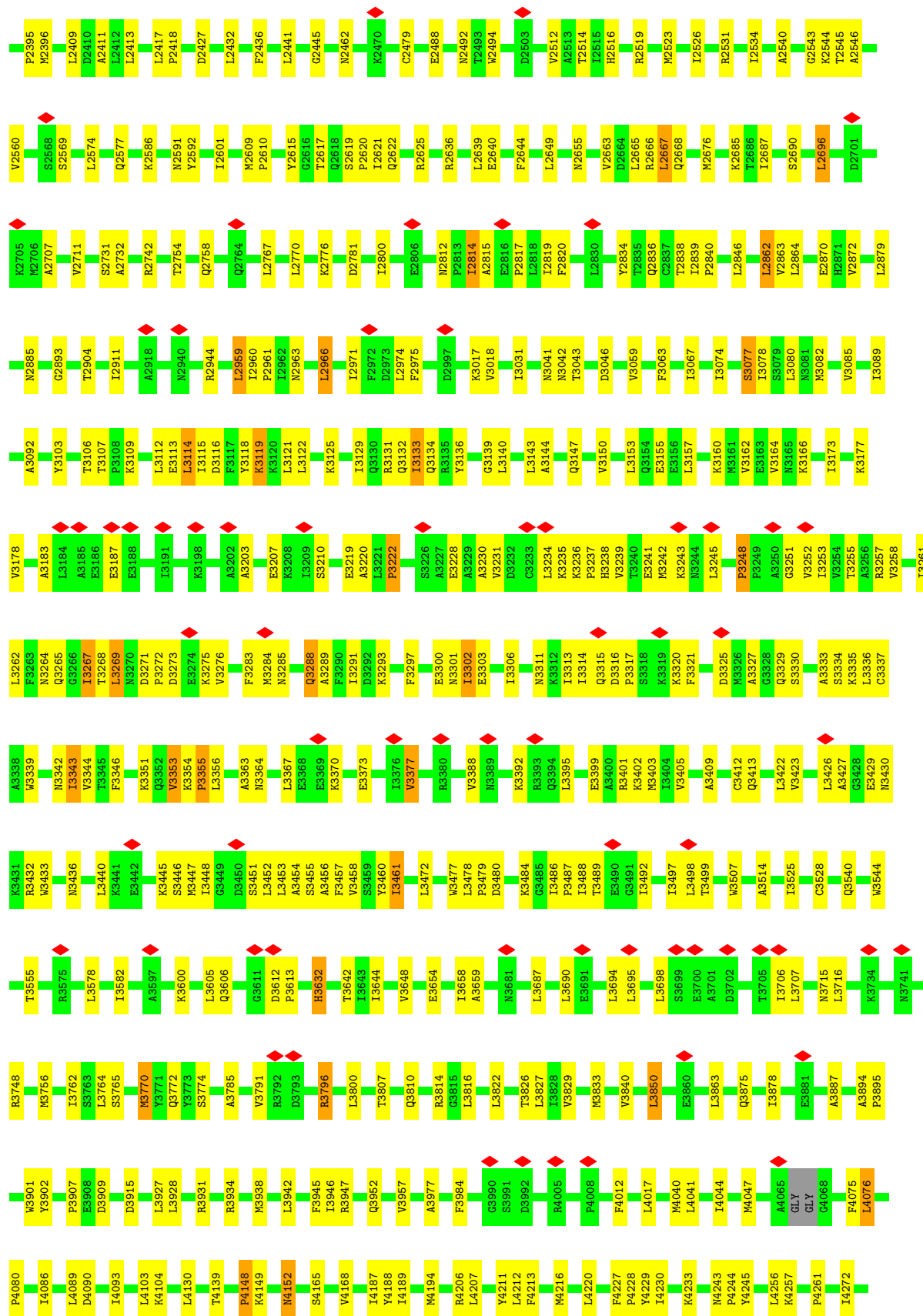
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R3753	D3592	C3457	K3347	Q3279	E3216	R2956	E2772	G2496	Q2341	S2340	G1979
S3754	P3593	C3472	I3348	T3280	S3217	L2960	K2776	T2497	L2155	L2155	G1982
S3755	V3594	R3472	V3349	M3284	X3218	L2963	F2783	K2498	G2162	K2162	R1983
	K3604	M3477	P3351	N3285	D3219	L2966	F2783	T2500	K2499	S2164	R1995
	A3611	T3485	K3352	F3286	V3221	L2963	C2786	D2511	A2498	L2170	V2010
S3765	M3615	L3488	K3353	M3287	E3222	M2972	C2786	K2514	K2499	T2171	K2011
L3803	K3622	F3483	K3354	K3288	L3223	L2976	V2793	M2515	T2175	L2012	L2012
L3824	K3627	L3494	K3355	K3289	K3224	L2976	I2794	K2563	A2013	A2013	I2020
K3833	C3627	I3495	V3356	L3290	A3225	F2987	I2794	M2564	I2183	I2183	I2020
T3837	A3630	D3496	E3360	F3293	N3226	R2992	M2795	F2566	M2196	M2196	K2025
G3853	A3637	T3500	L3377	K3295	D3229	L2999	D2797	F2566	E2202	E2202	K2026
D3854	L3638	L3508	A3378	D3296	L3230	C3000	I2797	V2567	I2203	I2203	F2027
A3855	L3637	L3508	Q3379	S3297	I3231	L3018	I2798	Q2573	S2204	S2204	L2030
A3879	K3641	I3515	I3380	I3298	I3232	C3022	I2799	L2576	D2205	D2205	L2033
E3885	F3647	D3532	Y3383	N3299	Y3235	W3026	I2800	M2602	D2206	D2206	C2034
E3886	T3648	P3533	I3384	E3301	I3236	F3046	E2801	K2418	V2211	V2211	Q2037
P3897	P3648	Q3534	K3385	T3302	I3237	T3041	E2802	Q2419	N2220	N2220	R2042
D3898	Q3551	Q3535	L3387	T3302	N3238	L3049	E2803	P2428	L2224	L2224	I2051
L3899	L3654	Q3536	K3388	Y3309	V3242	L3059	L2839	F2429	T2227	T2227	T2061
I3900	Q3537	Q3536	V3390	Y3309	F3243	M3060	V2840	D2430	L2254	L2254	L2073
	Q3538	Q3537	E3396	L3310	F3244	V3066	V2840	Y2432	G2289	G2289	M2075
	N3539	N3539	E3396	N3311	L3248	H3067	V2866	V2433	M2264	M2264	S2084
	W3540	W3540	N3399	Q3312	L3249	H3067	G2870	Q2435	N2267	N2267	D2089
	I3541	I3541	E3402	E3313	P3259	M3069	G2872	D2436	E2275	E2275	D2090
	K3544	L3545	E3406	D3315	Q3257	K3083	S2875	C2443	N2278	N2278	L2097
	S3546	S3546	E3406	W3316	V3257	F3092	L2876	W2448	N2278	N2278	L2098
	I3549	I3550	K3410	E3317	F3258	Y3095	T2877	V2449	Q2290	Q2290	I2101
	R3553	C3554	S3421	K3324	N3259	K3095	K2907	P2451	S2294	S2294	K2106
	C3554	C3554	L3422	K3324	K3261	Y3099	K2907	Q2452	L2298	L2298	E2117
	H3560	H3560	E3425	A3328	E3255	K3100	S2875	T2463	R2311	R2311	I2120
	P3561	P3561	W3429	A3329	E3255	K3100	L2876	M2471	R2316	R2316	P2121
	K3564	K3564	I3436	A3330	K3261	K3106	T2921	L2476	E2319	E2319	I2130
	L3568	L3568	K3440	I3332	E3262	E3105	F2922	V2746	Y2330	Y2330	I2141
	M3572	E3573	K3441	I3333	K3261	E3105	L2923	V2754	S2488	S2488	K2142
	E3573	E3573	K3442	W3335	L3267	E3105	M2924				
	T3577	T3577	L3443	W3335	L3267	K3106	T2925				
	T3583	T3583	V3444	A3338	L3269	L3110	L2935				
	N3584	N3584	G3445	I3339	K3270	E3207	T2938				
	N3585	N3585	N3446	E3341	S3271	A3208	G2945				
			V3447	E3342	S3272	Q3209					
			L3449	H3344	D3274	E3210					
			S3450	Q3344	E3275	A3211					
			T3451	S3276	S3276	V3212					
						D3213					

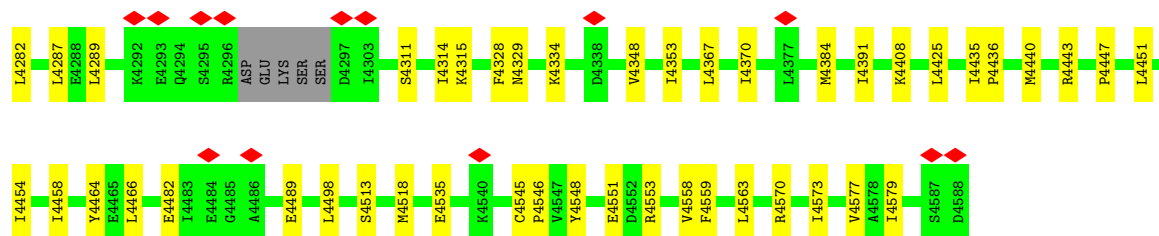


• Molecule 2: Outer arm dynein beta heavy chain

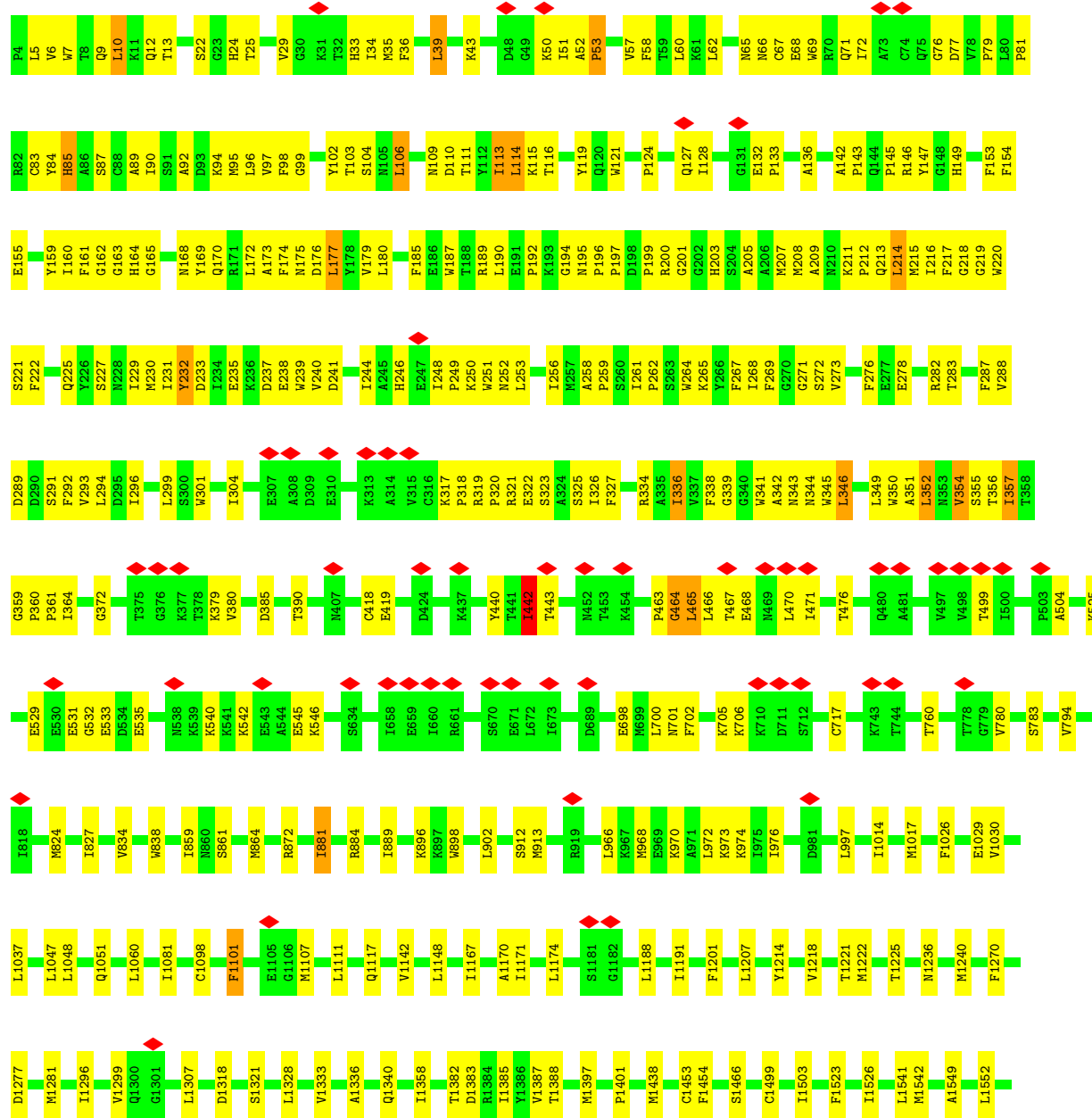
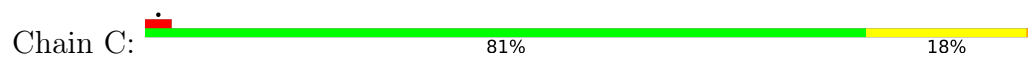


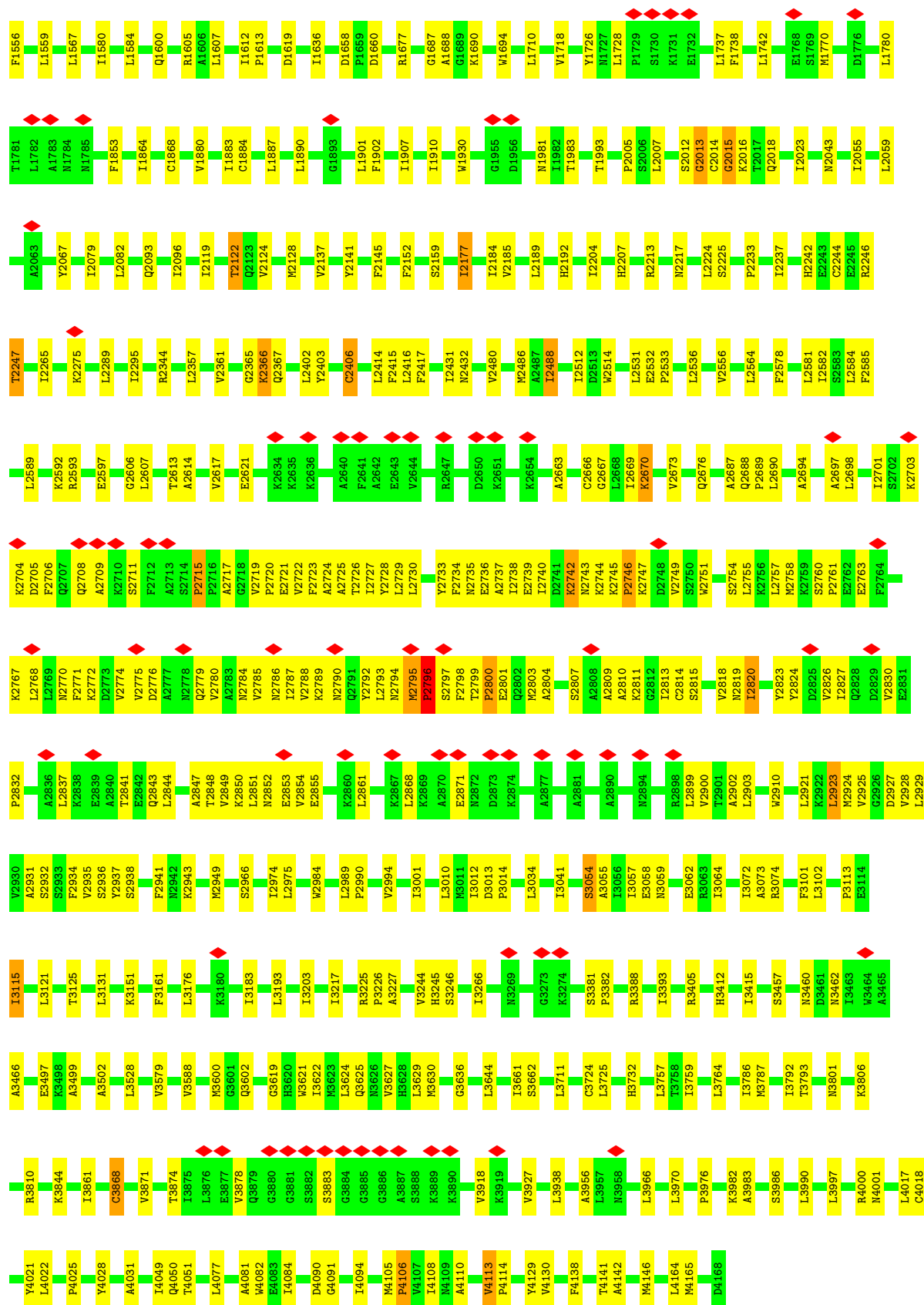




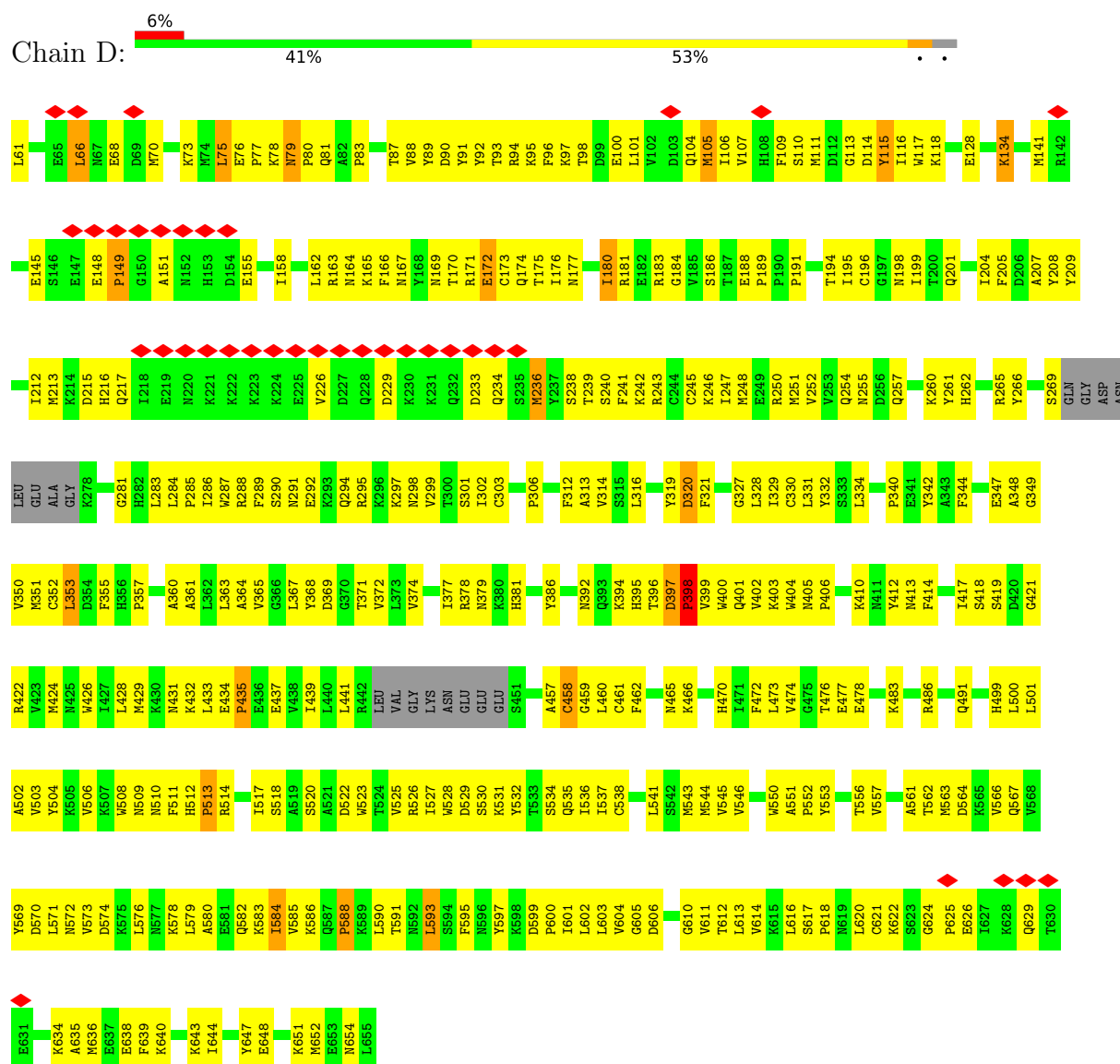


• Molecule 3: gamma heavy chain

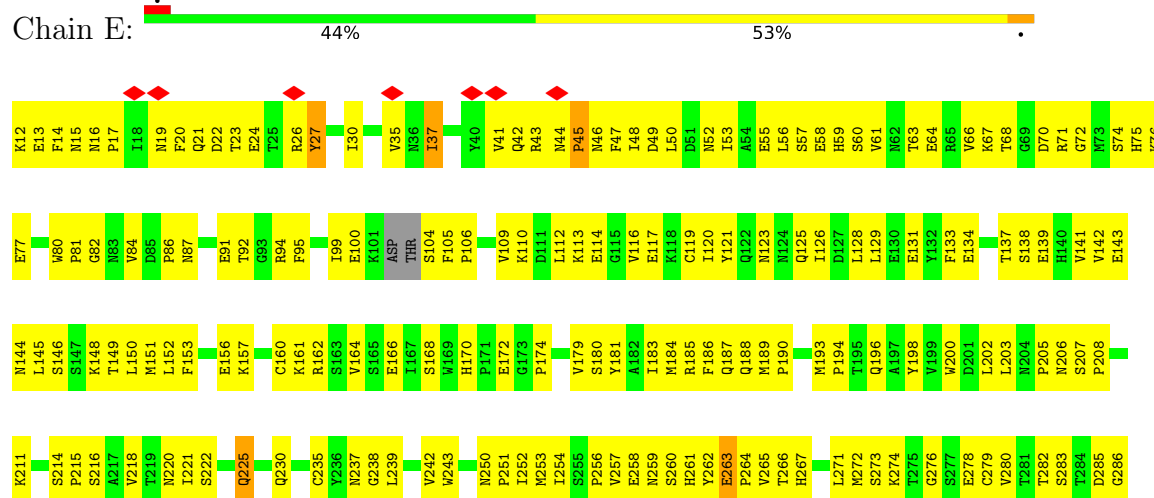


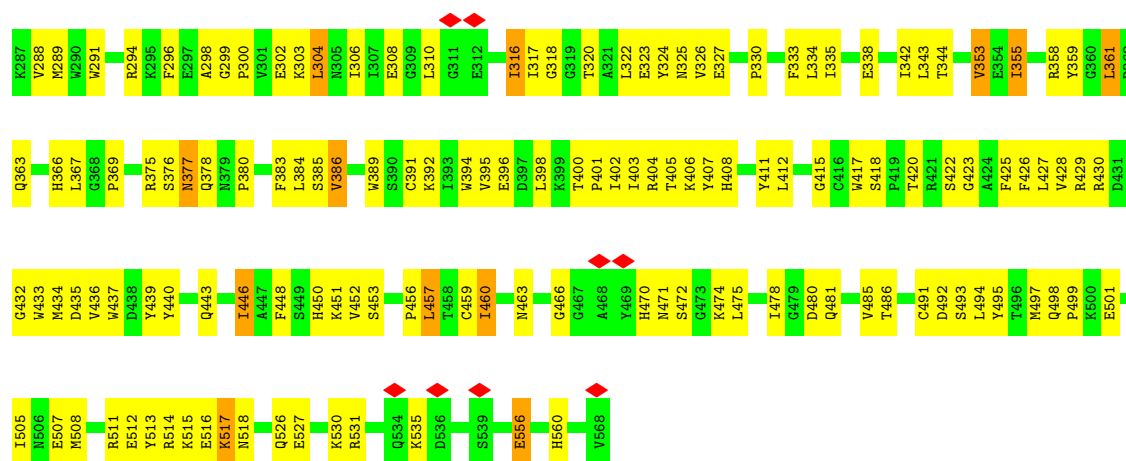


• Molecule 4: Dynein intermediate chain 2

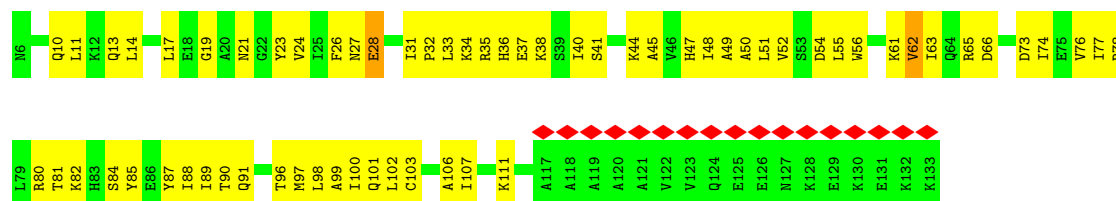


• Molecule 5: Flagellar outer dynein arm intermediate protein, putative

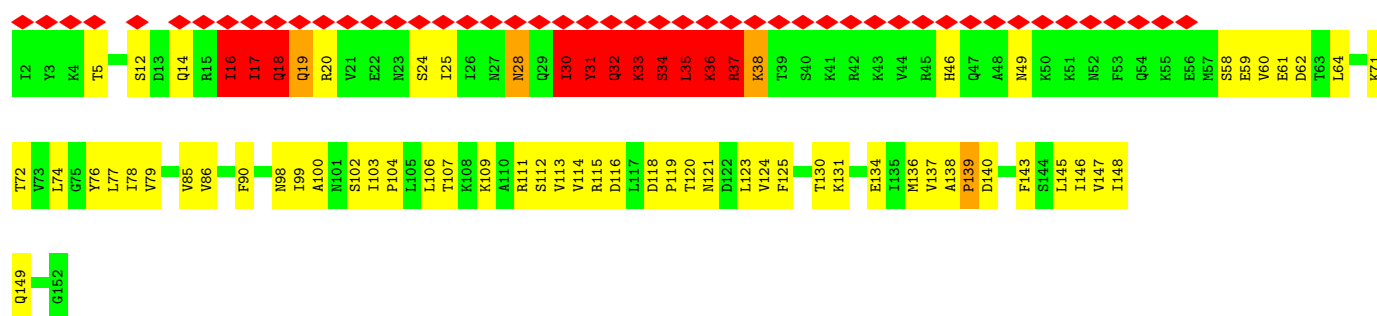




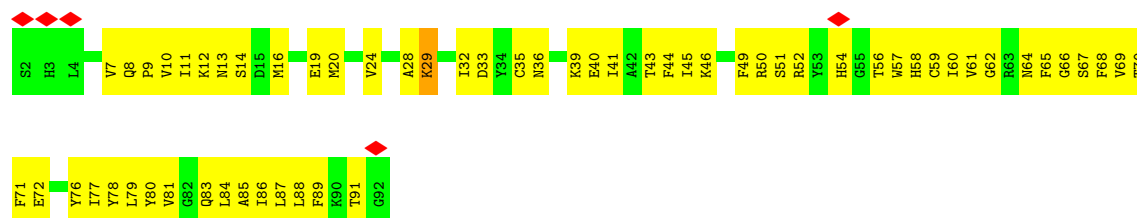
• Molecule 6: Dynein light chain roadblock-type 2 protein



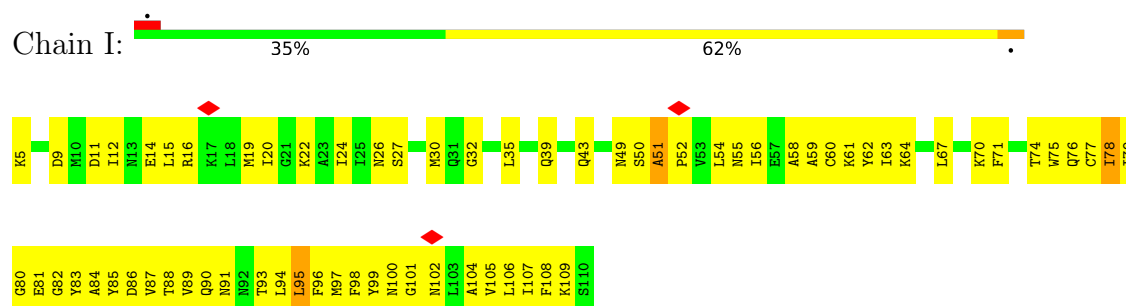
• Molecule 7: Dynein light chain roadblock-type 2 protein



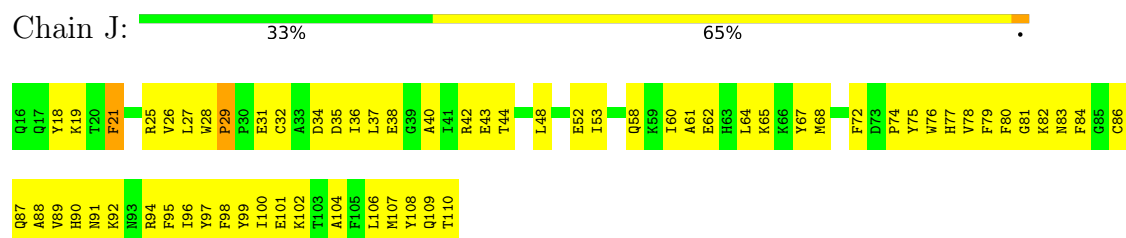
• Molecule 8: Dynein light chain



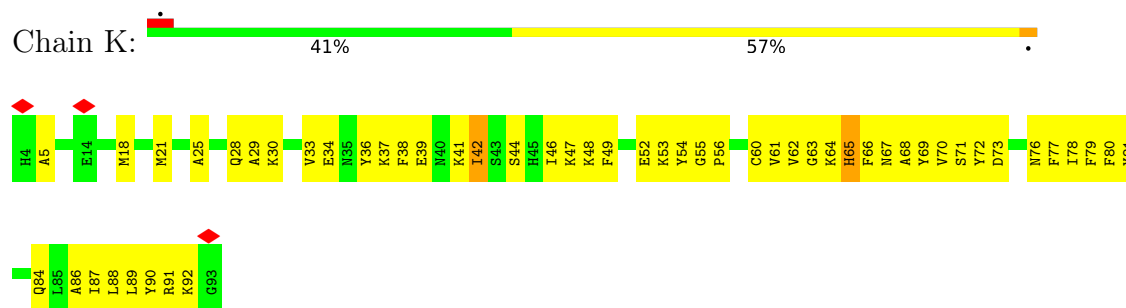
- Molecule 9: Dynein light chain



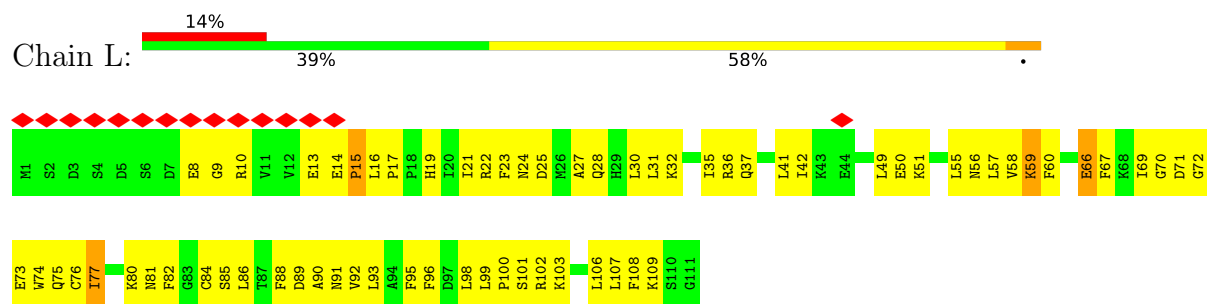
- Molecule 10: Dynein light chain



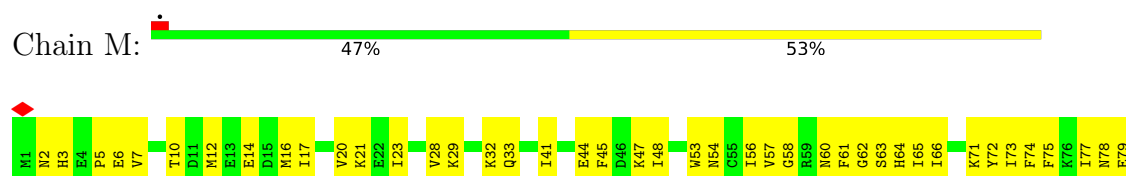
- Molecule 11: Dynein light chain



- Molecule 12: Dynein light chain

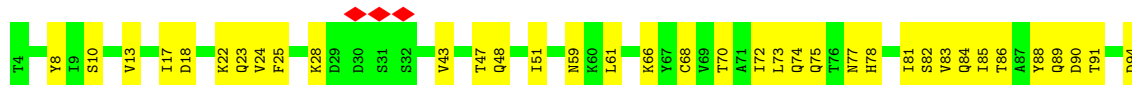


- Molecule 13: Dynein light chain

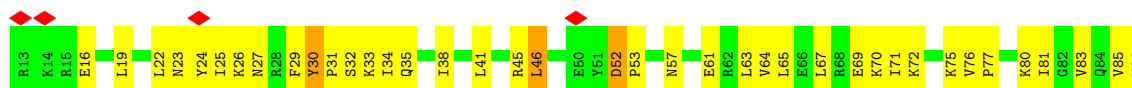




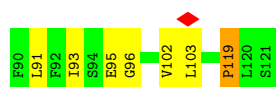
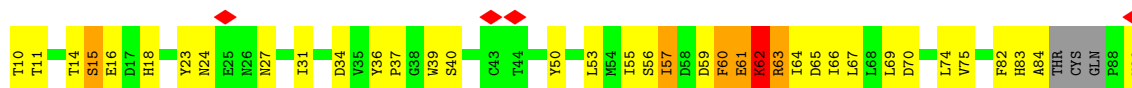
- Molecule 14: Dynein light chain tctex-type 1 protein



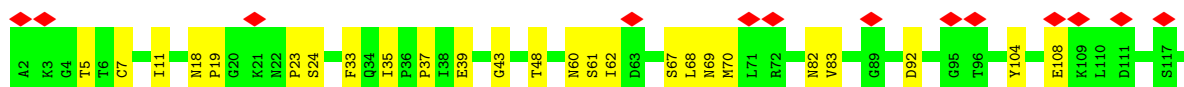
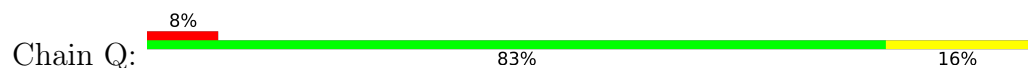
- Molecule 15: Dynein light chain 2A



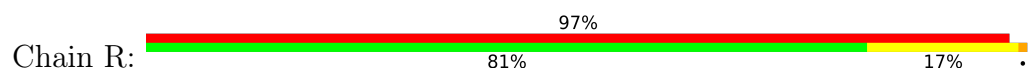
- Molecule 16: Thioredoxin



- Molecule 17: Dynein light chain 1



- Molecule 18: Dynein light chain 4A



[illegible]

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	76936	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	53.3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	8.594	Depositor
Minimum map value	0.000	Depositor
Average map value	0.029	Depositor
Map value standard deviation	0.189	Depositor
Recommended contour level	0.7	Depositor
Map size ($\text{\AA}$)	527.86786, 493.20984, 462.55084	wwPDB
Map dimensions	396, 370, 347	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.3329996, 1.3329996, 1.3329996	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ADP, MG, ATP

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	1.04	14/34544 (0.0%)	1.54	57/46728 (0.1%)
2	B	1.11	18/35358 (0.1%)	1.61	86/47850 (0.2%)
3	C	1.02	2/31033 (0.0%)	1.57	48/42007 (0.1%)
4	D	0.98	1/4789 (0.0%)	1.27	10/6477 (0.2%)
5	E	0.94	0/4540	1.18	3/6136 (0.0%)
6	F	0.87	0/1008	1.06	0/1355
7	G	0.95	0/1030	1.67	14/1403 (1.0%)
8	H	0.98	0/767	1.13	0/1031
9	I	1.00	0/838	1.15	0/1131
10	J	0.93	0/832	1.14	1/1119 (0.1%)
11	K	0.95	0/776	1.08	0/1038
12	L	0.94	0/872	1.18	2/1176 (0.2%)
13	M	0.95	0/752	1.11	0/1006
14	N	1.01	0/864	1.21	0/1175
15	O	0.97	0/1012	1.18	0/1358
16	P	3.15	6/538 (1.1%)	2.40	20/746 (2.7%)
17	Q	0.50	2/1009 (0.2%)	1.24	9/1392 (0.6%)
18	R	1.42	1/738 (0.1%)	1.72	4/1025 (0.4%)
All	All	1.06	44/121300 (0.0%)	1.53	254/164153 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4
2	B	0	11
3	C	0	1
4	D	0	1
7	G	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
16	P	0	2
All	All	0	31

All (44) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	59	THR	C-N	-63.98	0.44	1.33
1	A	1067	PRO	N-CD	51.37	2.19	1.47
16	P	62	LYS	C-N	-49.90	0.63	1.33
16	P	15	SER	C-N	35.27	1.81	1.34
18	R	82	ALA	C-N	30.48	1.71	1.33
1	A	1649	ALA	C-N	-29.64	0.94	1.33
2	B	56	ASP	C-N	-27.87	0.96	1.33
2	B	799	VAL	C-N	27.74	1.72	1.33
1	A	943	THR	C-N	25.54	1.69	1.33
16	P	61	GLU	C-N	19.14	1.60	1.33
2	B	55	GLN	C-N	18.94	1.60	1.33
1	A	3351	PRO	N-CA	18.65	1.71	1.47
2	B	17	ARG	N-CA	17.91	1.69	1.46
1	A	1171	ILE	C-N	16.03	1.56	1.33
2	B	49	PHE	C-N	-10.85	1.18	1.33
3	C	442	ILE	C-N	10.55	1.47	1.33
2	B	99	LEU	C-N	-10.01	1.19	1.33
3	C	364	ILE	C-N	-9.96	1.20	1.33
1	A	620	PRO	N-CD	-9.15	1.34	1.47
4	D	105	MET	C-N	8.89	1.46	1.33
2	B	16	ASN	C-N	8.16	1.45	1.33
17	Q	179	MET	C-O	7.36	1.32	1.23
1	A	1172	THR	C-N	7.32	1.44	1.33
1	A	1206	ALA	C-O	6.79	1.32	1.24
2	B	1203	ARG	C-O	6.66	1.31	1.24
1	A	1210	LYS	C-O	6.19	1.31	1.24
2	B	109	VAL	C-N	-6.02	1.25	1.33
2	B	1210	ASP	C-O	6.00	1.31	1.24
16	P	91	LEU	N-CA	5.85	1.53	1.46
1	A	1199	LYS	C-O	5.71	1.30	1.24
16	P	102	VAL	CA-CB	-5.54	1.46	1.54
1	A	1203	HIS	C-O	5.53	1.30	1.24
2	B	4	HIS	N-CA	5.29	1.49	1.46
2	B	1199	GLU	C-O	5.28	1.30	1.24
2	B	3219	GLU	C-O	5.25	1.30	1.24
2	B	1525	TRP	C-O	-5.24	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	Q	179	MET	CA-C	5.24	1.59	1.52
1	A	3350	LYS	C-N	5.21	1.46	1.33
1	A	44	PHE	C-O	-5.15	1.18	1.24
2	B	57	ASN	CA-C	-5.13	1.46	1.52
2	B	1207	VAL	C-O	5.12	1.30	1.24
1	A	1213	LYS	C-O	5.09	1.29	1.24
2	B	1214	LEU	C-O	5.06	1.29	1.24
16	P	103	LEU	CA-C	-5.05	1.46	1.52

All (254) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1171	ILE	CA-C-N	-61.26	4.53	121.54
1	A	1171	ILE	C-N-CA	-61.26	4.53	121.54
2	B	59	THR	O-C-N	-50.05	59.78	122.34
2	B	49	PHE	O-C-N	-38.44	78.07	123.04
2	B	137	LEU	N-CA-C	31.89	152.77	113.23
4	D	105	MET	O-C-N	-28.45	90.26	123.27
3	C	467	THR	N-CA-CB	25.71	155.38	110.39
18	R	82	ALA	CA-C-N	-25.43	76.84	121.85
18	R	82	ALA	C-N-CA	-25.43	76.84	121.85
16	P	62	LYS	O-C-N	-22.65	92.47	122.59
2	B	49	PHE	CA-C-N	22.09	163.74	121.54
2	B	49	PHE	C-N-CA	22.09	163.74	121.54
17	Q	18	ASN	CA-C-N	18.54	143.01	119.84
17	Q	18	ASN	C-N-CA	18.54	143.01	119.84
16	P	57	ILE	N-CA-CB	18.22	131.24	110.65
16	P	15	SER	CA-C-N	-17.72	94.77	120.28
16	P	15	SER	C-N-CA	-17.72	94.77	120.28
2	B	55	GLN	O-C-N	17.00	142.22	123.52
1	A	3350	LYS	CA-C-N	16.89	140.95	119.84
1	A	3350	LYS	C-N-CA	16.89	140.95	119.84
2	B	3222	PRO	CA-N-CD	-16.82	88.45	112.00
3	C	467	THR	CB-CA-C	-16.75	76.01	110.17
2	B	59	THR	CA-C-N	-16.73	89.58	121.54
2	B	59	THR	C-N-CA	-16.73	89.58	121.54
2	B	1213	PRO	CA-N-CD	-16.13	89.42	112.00
16	P	57	ILE	CB-CA-C	-15.47	91.91	111.87
1	A	1172	THR	O-C-N	-15.33	102.20	122.59
2	B	799	VAL	CA-C-N	-15.07	101.92	122.72
2	B	799	VAL	C-N-CA	-15.07	101.92	122.72
2	B	799	VAL	O-C-N	14.76	141.02	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	103	ASN	O-C-N	13.89	141.06	122.59
2	B	1186	PRO	CA-N-CD	-13.83	92.63	112.00
3	C	2832	PRO	CA-N-CD	-13.82	92.65	112.00
4	D	105	MET	CA-C-N	13.67	140.15	122.93
4	D	105	MET	C-N-CA	13.67	140.15	122.93
1	A	3203	PRO	CA-N-CD	-13.27	93.42	112.00
2	B	3355	PRO	CA-N-CD	-13.25	93.45	112.00
2	B	138	ASN	N-CA-CB	12.76	132.06	110.49
7	G	17	ILE	O-C-N	-12.50	109.66	121.91
7	G	16	ILE	O-C-N	-12.37	109.79	121.91
3	C	466	LEU	CB-CA-C	-12.26	99.18	116.34
3	C	442	ILE	CB-CA-C	-12.08	91.48	111.29
2	B	103	ASN	CA-C-N	-12.06	107.54	123.10
2	B	103	ASN	C-N-CA	-12.06	107.54	123.10
7	G	33	LYS	O-C-N	-12.04	109.67	122.07
3	C	442	ILE	N-CA-CB	12.00	131.03	111.23
7	G	32	GLN	O-C-N	-11.98	109.73	122.07
7	G	36	LYS	O-C-N	-11.98	109.73	122.07
7	G	37	ARG	O-C-N	-11.98	109.73	122.07
7	G	35	LEU	O-C-N	-11.96	109.75	122.07
7	G	18	GLN	O-C-N	-11.96	109.75	122.07
7	G	34	SER	O-C-N	-11.94	109.77	122.07
7	G	31	TYR	O-C-N	-11.93	109.78	122.07
16	P	56	SER	N-CA-CB	11.84	127.84	110.20
2	B	55	GLN	CA-C-N	-11.70	104.45	122.81
2	B	55	GLN	C-N-CA	-11.70	104.45	122.81
1	A	1528	GLY	N-CA-C	11.69	126.75	112.73
7	G	30	ILE	O-C-N	-11.66	109.78	121.90
2	B	73	PHE	N-CA-C	-11.65	89.92	108.90
2	B	16	ASN	CA-C-N	11.54	143.59	121.54
2	B	16	ASN	C-N-CA	11.54	143.59	121.54
3	C	442	ILE	CA-C-N	-10.99	105.34	121.05
3	C	442	ILE	C-N-CA	-10.99	105.34	121.05
3	C	2746	PRO	CA-N-CD	-9.86	98.19	112.00
4	D	398	PRO	CA-N-CD	-9.86	98.20	112.00
1	A	1171	ILE	O-C-N	-9.76	110.37	122.57
3	C	53	PRO	CA-N-CD	-9.75	98.34	112.00
17	Q	179	MET	N-CA-C	9.63	124.54	110.28
3	C	2800	PRO	CA-N-CD	-9.51	98.69	112.00
2	B	137	LEU	CB-CA-C	-9.47	90.33	109.55
3	C	2796	PRO	CA-N-CD	-9.44	98.78	112.00
1	A	3250	PRO	CA-N-CD	-9.39	98.85	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	121	GLY	O-C-N	-9.07	110.91	122.70
2	B	84	PHE	CA-C-N	9.00	136.44	122.94
2	B	84	PHE	C-N-CA	9.00	136.44	122.94
1	A	3351	PRO	CA-N-CD	-8.98	99.42	112.00
2	B	84	PHE	O-C-N	8.90	132.94	123.42
1	A	1043	PRO	N-CA-C	8.81	125.21	113.40
16	P	60	PHE	CB-CA-C	-8.73	97.18	110.88
3	C	364	ILE	O-C-N	-8.50	109.40	123.00
17	Q	179	MET	CA-C-O	8.43	130.60	121.16
10	J	29	PRO	N-CA-C	-8.33	100.54	110.70
2	B	658	GLN	N-CA-C	-8.23	98.52	111.02
1	A	326	PRO	N-CA-CB	8.22	112.05	103.00
4	D	320	ASP	CB-CA-C	8.17	117.92	109.83
1	A	1599	PHE	CA-C-N	7.80	127.86	119.28
1	A	1599	PHE	C-N-CA	7.80	127.86	119.28
1	A	1573	PHE	N-CA-C	7.69	119.66	111.28
1	A	1067	PRO	N-CD-CG	-7.68	91.68	103.20
16	P	56	SER	CB-CA-C	-7.68	96.65	110.70
16	P	62	LYS	CA-C-N	-7.59	107.05	121.54
16	P	62	LYS	C-N-CA	-7.59	107.05	121.54
2	B	72	THR	N-CA-CB	7.57	122.77	110.97
3	C	372	GLY	CA-C-N	7.49	128.08	119.99
3	C	372	GLY	C-N-CA	7.49	128.08	119.99
16	P	60	PHE	N-CA-CB	7.38	120.70	110.01
2	B	71	CYS	CB-CA-C	7.26	124.87	110.42
17	Q	152	ASN	CA-C-N	7.20	127.04	119.05
17	Q	152	ASN	C-N-CA	7.20	127.04	119.05
2	B	56	ASP	CA-C-N	7.15	133.08	123.00
2	B	56	ASP	C-N-CA	7.15	133.08	123.00
3	C	470	LEU	N-CA-CB	7.12	121.90	110.65
1	A	1067	PRO	CA-N-CD	-7.08	102.08	112.00
1	A	1268	ARG	CB-CA-C	7.06	124.15	110.46
1	A	1067	PRO	N-CA-CB	6.89	109.75	103.20
3	C	464	GLY	O-C-N	-6.84	113.80	122.70
2	B	99	LEU	O-C-N	6.75	131.57	122.59
1	A	1464	VAL	N-CA-C	-6.74	106.92	113.53
3	C	465	LEU	N-CA-CB	6.73	121.88	111.24
1	A	1204	LYS	CA-C-N	6.70	129.26	120.28
1	A	1204	LYS	C-N-CA	6.70	129.26	120.28
3	C	364	ILE	CA-C-N	6.70	135.19	122.60
3	C	364	ILE	C-N-CA	6.70	135.19	122.60
2	B	168	ILE	N-CA-C	-6.69	103.97	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	188	GLU	CA-C-N	6.64	127.22	120.38
4	D	188	GLU	C-N-CA	6.64	127.22	120.38
1	A	1529	ASP	N-CA-C	6.64	118.17	111.07
3	C	2851	LEU	CA-C-N	6.60	129.02	120.44
3	C	2851	LEU	C-N-CA	6.60	129.02	120.44
5	E	144	ASN	CA-C-N	-6.59	111.50	120.87
5	E	144	ASN	C-N-CA	-6.59	111.50	120.87
1	A	100	ASN	CA-C-N	6.58	128.06	119.84
1	A	100	ASN	C-N-CA	6.58	128.06	119.84
3	C	470	LEU	CB-CA-C	-6.57	100.17	110.74
16	P	61	GLU	O-C-N	6.54	131.64	122.36
1	A	1524	VAL	N-CA-C	6.51	116.67	110.42
2	B	56	ASP	O-C-N	-6.50	114.74	123.19
2	B	4	HIS	O-C-N	6.46	126.32	121.47
2	B	22	LEU	CA-C-N	6.44	127.12	119.98
2	B	22	LEU	C-N-CA	6.44	127.12	119.98
1	A	340	PRO	N-CA-CB	6.34	110.02	103.23
1	A	943	THR	CA-C-N	-6.30	111.29	122.07
1	A	943	THR	C-N-CA	-6.30	111.29	122.07
2	B	71	CYS	N-CA-CB	6.30	121.14	110.49
1	A	930	PHE	CA-CB-CG	-6.26	107.54	113.80
1	A	931	PHE	CA-CB-CG	-6.18	107.62	113.80
3	C	542	LYS	N-CA-C	6.16	119.64	111.75
1	A	1568	ASP	N-CA-C	6.15	117.68	110.97
16	P	62	LYS	CB-CA-C	-6.13	98.21	110.42
1	A	1211	GLU	CA-C-N	6.13	128.49	120.28
1	A	1211	GLU	C-N-CA	6.13	128.49	120.28
1	A	1208	TYR	CA-C-O	-5.97	114.22	120.55
1	A	1525	PHE	N-CA-C	5.96	117.86	111.36
2	B	2838	THR	CA-C-N	5.96	125.10	120.33
2	B	2838	THR	C-N-CA	5.96	125.10	120.33
2	B	109	VAL	CA-C-N	-5.93	111.06	120.55
2	B	109	VAL	C-N-CA	-5.93	111.06	120.55
2	B	1423	TYR	N-CA-C	5.90	120.08	112.41
16	P	15	SER	O-C-N	5.89	129.99	123.33
3	C	2851	LEU	O-C-N	5.88	128.13	122.07
3	C	2797	SER	CB-CA-C	-5.84	109.86	116.63
17	Q	179	MET	O-C-N	-5.83	115.78	122.89
1	A	1066	VAL	N-CA-CB	-5.81	103.18	110.33
2	B	287	GLU	CA-C-N	5.81	128.06	120.28
2	B	287	GLU	C-N-CA	5.81	128.06	120.28
1	A	283	PRO	N-CA-CB	5.80	109.67	103.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1523	LYS	O-C-N	5.79	128.04	122.07
2	B	109	VAL	O-C-N	5.74	129.74	122.57
1	A	4311	GLY	CA-C-O	-5.73	118.28	122.23
3	C	476	THR	N-CA-C	5.73	118.81	109.59
1	A	1630	LEU	N-CA-C	5.71	117.31	111.14
2	B	1126	LYS	CB-CA-C	-5.71	110.01	116.63
16	P	59	ASP	CB-CA-C	-5.70	102.32	111.39
16	P	62	LYS	N-CA-CB	5.70	120.13	110.49
1	A	1562	ILE	CA-C-N	5.70	125.37	119.05
1	A	1562	ILE	C-N-CA	5.70	125.37	119.05
2	B	307	PRO	N-CA-C	-5.70	100.74	112.47
3	C	465	LEU	CB-CA-C	-5.70	100.18	111.91
2	B	1376	LEU	CA-C-N	5.68	125.04	118.85
2	B	1376	LEU	C-N-CA	5.68	125.04	118.85
3	C	468	GLU	CB-CA-C	-5.59	100.94	109.89
3	C	3636	GLY	CA-C-O	-5.58	118.43	122.45
3	C	2742	LYS	CA-C-O	-5.58	114.68	120.70
7	G	24	SER	CB-CA-C	-5.55	110.19	116.63
2	B	1208	LYS	CA-C-N	5.53	127.69	120.28
2	B	1208	LYS	C-N-CA	5.53	127.69	120.28
16	P	60	PHE	N-CA-C	5.53	116.99	111.07
18	R	82	ALA	O-C-N	5.52	129.73	123.27
2	B	1525	TRP	N-CA-C	-5.51	105.28	111.28
2	B	515	ASP	CA-CB-CG	5.49	118.09	112.60
3	C	1677	ARG	CA-C-N	5.49	127.63	120.28
3	C	1677	ARG	C-N-CA	5.49	127.63	120.28
2	B	5	SER	CA-C-N	5.47	131.99	121.54
2	B	5	SER	C-N-CA	5.47	131.99	121.54
2	B	1451	TRP	N-CA-C	5.46	118.16	111.82
2	B	1521	VAL	N-CA-C	-5.44	106.50	111.67
7	G	46	HIS	CB-CA-C	-5.44	110.32	116.63
2	B	903	ARG	CA-C-N	-5.44	115.50	123.00
2	B	903	ARG	C-N-CA	-5.44	115.50	123.00
1	A	2090	ASP	CA-C-N	5.43	123.66	120.24
1	A	2090	ASP	C-N-CA	5.43	123.66	120.24
1	A	1207	ILE	CA-C-N	5.42	127.54	120.28
1	A	1207	ILE	C-N-CA	5.42	127.54	120.28
2	B	290	ARG	CA-C-N	5.42	127.54	120.28
2	B	290	ARG	C-N-CA	5.42	127.54	120.28
4	D	229	ASP	CB-CA-C	-5.41	110.35	116.63
2	B	72	THR	N-CA-C	-5.39	101.12	108.24
3	C	2923	LEU	CA-C-N	5.37	127.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2923	LEU	C-N-CA	5.37	127.47	120.28
2	B	3796	ARG	CA-C-N	5.36	124.61	120.33
2	B	3796	ARG	C-N-CA	5.36	124.61	120.33
18	R	80	LYS	CB-CA-C	-5.35	110.42	116.63
5	E	109	VAL	N-CA-C	5.35	116.08	110.62
12	L	8	GLU	CB-CA-C	-5.34	110.40	116.54
1	A	3261	LYS	CB-CA-C	-5.34	110.44	116.63
1	A	332	PRO	N-CA-CB	5.33	109.15	103.39
2	B	864	ASN	CA-CB-CG	5.33	117.93	112.60
3	C	1853	PHE	CA-C-N	5.33	126.01	119.99
3	C	1853	PHE	C-N-CA	5.33	126.01	119.99
16	P	50	TYR	CA-C-N	-5.32	112.74	120.29
16	P	50	TYR	C-N-CA	-5.32	112.74	120.29
16	P	61	GLU	CB-CA-C	-5.32	99.93	109.24
1	A	1329	ASP	N-CA-C	5.31	116.87	111.14
1	A	1401	ILE	N-CA-C	5.31	115.52	110.42
2	B	403	GLY	CA-C-O	-5.29	118.01	122.29
2	B	75	TYR	CB-CA-C	-5.27	110.52	116.63
1	A	1268	ARG	N-CA-C	-5.26	105.01	111.75
3	C	468	GLU	N-CA-CB	5.26	117.69	109.85
2	B	1418	LEU	N-CA-C	-5.25	101.87	109.59
3	C	390	THR	CB-CA-C	-5.24	110.10	117.23
2	B	144	ASP	CB-CA-C	-5.23	110.52	116.54
12	L	10	ARG	N-CA-C	-5.21	105.66	112.23
4	D	226	VAL	N-CA-C	-5.18	105.49	110.72
2	B	4086	ILE	CA-C-N	5.16	125.81	120.03
2	B	4086	ILE	C-N-CA	5.16	125.81	120.03
1	A	1280	TYR	CA-C-N	5.16	124.77	119.05
1	A	1280	TYR	C-N-CA	5.16	124.77	119.05
1	A	1338	SER	N-CA-C	5.14	116.89	111.28
3	C	3883	SER	CA-C-N	5.14	124.99	120.10
3	C	3883	SER	C-N-CA	5.14	124.99	120.10
4	D	236	MET	CB-CA-C	-5.14	110.67	116.63
1	A	1635	THR	N-CA-C	5.13	116.88	111.28
2	B	4261	PRO	CA-C-N	5.13	127.41	120.38
2	B	4261	PRO	C-N-CA	5.13	127.41	120.38
2	B	2959	LEU	CA-C-N	5.11	124.41	120.33
2	B	2959	LEU	C-N-CA	5.11	124.41	120.33
2	B	72	THR	CB-CA-C	5.10	123.89	112.78
17	Q	23	PRO	CA-C-N	-5.10	115.06	122.86
17	Q	23	PRO	C-N-CA	-5.10	115.06	122.86
1	A	3964	GLY	CA-C-O	-5.07	118.73	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	99	LEU	CA-C-N	-5.07	111.86	121.54
2	B	99	LEU	C-N-CA	-5.07	111.86	121.54
2	B	23	GLY	O-C-N	5.06	127.05	122.19
2	B	15	ILE	N-CA-C	5.06	116.52	111.00
3	C	1101	PHE	CA-CB-CG	5.06	118.86	113.80
7	G	28	ASN	CB-CA-C	-5.05	110.73	116.54
2	B	294	THR	CA-C-N	5.04	127.04	120.28
2	B	294	THR	C-N-CA	5.04	127.04	120.28
3	C	2868	LEU	CA-C-N	5.04	127.04	120.28
3	C	2868	LEU	C-N-CA	5.04	127.04	120.28
3	C	2861	LEU	CA-C-N	5.02	127.00	120.28
3	C	2861	LEU	C-N-CA	5.02	127.00	120.28
3	C	2871	GLU	CA-C-N	5.01	127.00	120.28
3	C	2871	GLU	C-N-CA	5.01	127.00	120.28

There are no chirality outliers.

All (31) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1171	ILE	Peptide,Mainchain
1	A	121	GLY	Mainchain
1	A	1649	ALA	Mainchain
2	B	109	VAL	Mainchain
2	B	1166	GLU	Mainchain
2	B	1462	LYS	Peptide
2	B	25	GLN	Peptide
2	B	49	PHE	Peptide,Mainchain
2	B	56	ASP	Mainchain
2	B	59	THR	Mainchain
2	B	84	PHE	Mainchain
2	B	909	SER	Mainchain
2	B	99	LEU	Mainchain
3	C	464	GLY	Mainchain
4	D	233	ASP	Peptide
7	G	16	ILE	Mainchain
7	G	17	ILE	Mainchain
7	G	18	GLN	Mainchain
7	G	28	ASN	Peptide
7	G	30	ILE	Mainchain
7	G	31	TYR	Mainchain
7	G	32	GLN	Mainchain
7	G	33	LYS	Mainchain

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Mol	Chain	Res	Type	Group
7	G	34	SER	Mainchain
7	G	35	LEU	Mainchain
7	G	36	LYS	Mainchain
7	G	37	ARG	Mainchain
16	P	62	LYS	Mainchain
16	P	70	ASP	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	33975	0	32379	2250	0
2	B	34751	0	33289	2401	0
3	C	30427	0	29352	1265	0
4	D	4680	0	4511	1087	0
5	E	4440	0	4311	928	0
6	F	996	0	1019	266	0
7	G	1024	0	883	193	0
8	H	750	0	734	226	0
9	I	827	0	826	297	0
10	J	807	0	772	271	0
11	K	754	0	716	125	0
12	L	855	0	854	214	0
13	M	735	0	738	196	0
14	N	852	0	799	197	0
15	O	994	0	1017	310	0
16	P	541	0	217	58	0
17	Q	1006	0	512	53	0
18	R	739	156	339	46	0
19	A	54	0	23	32	0
19	B	54	0	24	18	0
19	C	54	0	22	32	0
20	A	31	0	12	10	0
20	B	31	0	12	43	0
20	C	31	0	12	2	0
21	A	3	0	0	2	0
21	B	3	0	0	0	0
21	C	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	119417	156	113373	8721	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 37.

All (8721) 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)
10:J:86:CYS:SG	11:K:61:VAL:HG22	1.24	1.72
1:A:3235:TYR:CE2	1:A:3269:LEU:HD13	1.25	1.71
3:C:196:PRO:HA	3:C:239:TRP:CZ2	1.23	1.67
2:B:3118:TYR:CE2	2:B:3452:LEU:HA	1.25	1.64
4:D:170:THR:CG2	13:M:66:ILE:CG1	1.74	1.64
6:F:56:TRP:CD1	6:F:91:GLN:HE22	0.97	1.64
14:N:25:PHE:CE1	14:N:103:ILE:HG21	1.17	1.64
2:B:582:MET:HE2	2:B:587:GLY:CA	1.18	1.64
2:B:1474:MET:SD	2:B:1515:VAL:HG11	1.32	1.64
1:A:3232:ILE:HG12	1:A:3316:TRP:CZ3	1.14	1.63
1:A:3290:LEU:HD22	1:A:3335:TRP:CZ2	1.09	1.62
2:B:58:SER:HA	2:B:83:LYS:CB	1.26	1.62
2:B:544:HIS:CE1	2:B:609:LEU:HD12	1.32	1.62
4:D:172:GLU:CB	13:M:64:HIS:HB3	1.26	1.62
2:B:957:GLN:HG2	3:C:164:HIS:CE1	1.34	1.62
1:A:935:VAL:HG22	1:A:944:LEU:CD2	1.23	1.62
2:B:3:ASP:CB	2:B:7:LYS:HA	1.19	1.61
2:B:864:ASN:HB2	2:B:947:LEU:CD2	1.15	1.61
2:B:429:LEU:HD12	2:B:489:PHE:CE2	1.32	1.60
2:B:744:MET:SD	2:B:772:ILE:HG13	1.40	1.60
1:A:997:LYS:CD	18:R:149:LEU:HA	1.18	1.60
1:A:1445:PHE:CE2	1:A:1564:CYS:HB3	1.14	1.60
4:D:177:ASN:HD21	13:M:60:ASN:CB	1.02	1.60
1:A:891:PHE:CE1	1:A:972:TRP:CE3	1.88	1.60
2:B:436:PHE:CE1	2:B:499:LEU:CD2	1.77	1.60
3:C:2745:LYS:CD	3:C:2749:VAL:HG21	1.14	1.60
2:B:970:ALA:CB	3:C:345:TRP:CZ3	1.82	1.60
1:A:3121:LEU:HD21	1:A:3429:TRP:CB	1.16	1.60
5:E:20:PHE:CZ	15:O:80:LYS:HG3	1.10	1.60
2:B:1238:LYS:CE	2:B:1308:LEU:HA	1.22	1.59
5:E:61:VAL:CG2	10:J:106:LEU:HD22	1.32	1.59
5:E:117:GLU:HG3	6:F:17:LEU:CD1	1.17	1.59
1:A:1525:PHE:HB2	1:A:1541:PHE:CD2	1.36	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2839:LEU:HD12	19:A:4901:ADP:C2	1.07	1.59
1:A:3232:ILE:CG1	1:A:3316:TRP:CZ3	1.79	1.59
2:B:713:VAL:CG1	5:E:258:GLU:HG3	1.15	1.58
4:D:251:MET:HB3	7:G:136:MET:CE	1.15	1.58
6:F:48:ILE:HD11	6:F:98:LEU:CD2	1.12	1.58
6:F:48:ILE:CD1	6:F:98:LEU:HD23	1.26	1.58
2:B:444:LEU:HA	5:E:515:LYS:CG	1.32	1.58
2:B:1329:PRO:HA	2:B:1412:PHE:CB	1.20	1.58
1:A:3257:VAL:HG21	1:A:3266:VAL:CG1	1.16	1.58
3:C:2711:SER:HB3	3:C:2751:TRP:CZ2	1.30	1.58
3:C:2726:THR:HA	3:C:2729:LEU:CD1	1.15	1.57
5:E:117:GLU:CG	6:F:17:LEU:HD11	1.32	1.57
14:N:72:ILE:HG23	15:O:97:ILE:CG1	1.33	1.57
2:B:1511:VAL:CB	2:B:1570:VAL:HG21	1.17	1.56
2:B:555:LEU:CD2	2:B:625:LEU:CD2	1.79	1.56
1:A:3249:ILE:CG1	1:A:3273:TYR:HA	1.32	1.56
2:B:1447:ILE:CG2	2:B:1504:TRP:HE1	0.97	1.56
5:E:20:PHE:CE2	15:O:80:LYS:HE3	1.36	1.56
2:B:10:PRO:CB	2:B:25:GLN:HA	1.32	1.55
2:B:1058:LYS:CG	2:B:1166:GLU:HB3	1.29	1.55
2:B:501:ARG:NH2	4:D:491:GLN:CG	1.68	1.55
1:A:1132:LEU:C	1:A:1272:LEU:HD11	1.25	1.55
2:B:3:ASP:CB	2:B:7:LYS:CA	1.78	1.55
2:B:1488:LYS:CB	2:B:1501:VAL:HG11	1.35	1.54
5:E:16:ASN:CB	15:O:132:GLU:HG3	1.28	1.54
5:E:20:PHE:CZ	15:O:80:LYS:CG	1.89	1.54
2:B:10:PRO:CA	2:B:25:GLN:CA	1.85	1.54
4:D:207:ALA:CB	9:I:24:ILE:HD11	1.30	1.54
2:B:801:ILE:HD12	2:B:878:ALA:CA	1.26	1.54
2:B:3153:LEU:HD13	2:B:3707:LEU:CD1	1.33	1.54
1:A:1422:SER:HB2	1:A:1486:HIS:CE1	1.41	1.54
2:B:864:ASN:CA	2:B:947:LEU:HG	1.32	1.54
3:C:2669:ILE:HD12	3:C:2847:ALA:CB	1.35	1.54
3:C:2745:LYS:HD2	3:C:2749:VAL:CG2	1.07	1.54
6:F:91:GLN:HG2	6:F:96:THR:CG2	1.35	1.54
2:B:10:PRO:HA	2:B:25:GLN:CA	1.35	1.53
3:C:2738:ILE:HA	3:C:2746:PRO:CG	1.35	1.53
1:A:2839:LEU:CD1	19:A:4901:ADP:N1	1.71	1.53
2:B:864:ASN:CB	2:B:947:LEU:CG	1.81	1.53
3:C:2738:ILE:CA	3:C:2746:PRO:HG3	1.31	1.53
2:B:444:LEU:CA	5:E:515:LYS:HG3	1.36	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:25:PHE:CE1	14:N:103:ILE:CG2	1.85	1.53
2:B:582:MET:CE	2:B:587:GLY:HA2	1.11	1.52
17:Q:68:LEU:C	17:Q:92:ASP:CB	1.79	1.52
2:B:17:ARG:N	2:B:17:ARG:CA	1.69	1.52
3:C:2740:ILE:HG21	3:C:2744:LYS:CB	1.30	1.52
6:F:14:LEU:CD2	6:F:23:TYR:HB3	1.39	1.52
2:B:1607:PRO:CG	2:B:1946:SER:HB3	1.38	1.52
6:F:11:LEU:HD22	6:F:23:TYR:CE1	1.02	1.51
3:C:2720:PRO:HB2	3:C:2798:PHE:CE2	1.46	1.51
2:B:409:SER:CB	2:B:413:PHE:CD1	1.90	1.51
2:B:3118:TYR:HE2	2:B:3452:LEU:CA	1.23	1.51
1:A:3235:TYR:CE2	1:A:3269:LEU:CD1	1.90	1.51
2:B:429:LEU:CD1	2:B:489:PHE:CE2	1.88	1.51
2:B:3153:LEU:CD1	2:B:3707:LEU:HD11	1.07	1.51
2:B:957:GLN:CG	3:C:164:HIS:CE1	1.93	1.50
2:B:3446:SER:CB	2:B:3489:THR:HG23	1.35	1.50
8:H:66:GLY:HA3	9:I:56:ILE:CG2	1.07	1.50
1:A:3232:ILE:HG12	1:A:3316:TRP:CE3	1.45	1.50
1:A:3290:LEU:CD2	1:A:3335:TRP:CZ2	1.91	1.50
2:B:864:ASN:CB	2:B:947:LEU:HG	1.31	1.50
3:C:2740:ILE:CG2	3:C:2744:LYS:HB2	1.40	1.50
4:D:569:TYR:CZ	4:D:578:LYS:HG2	1.43	1.50
6:F:11:LEU:CD2	6:F:23:TYR:CE1	1.94	1.50
2:B:555:LEU:HD23	2:B:625:LEU:CD2	1.39	1.49
2:B:2334:TYR:N	20:B:5601:ATP:H2	1.07	1.49
1:A:2839:LEU:CD1	19:A:4901:ADP:C2	1.95	1.49
2:B:1395:LEU:CB	2:B:1430:ILE:HD13	1.03	1.49
4:D:111:MET:HE1	15:O:90:ILE:CG2	1.42	1.49
5:E:310:LEU:CG	5:E:358:ARG:NH2	1.71	1.49
5:E:20:PHE:CD2	15:O:80:LYS:CE	1.91	1.49
1:A:943:THR:C	1:A:944:LEU:N	1.69	1.49
3:C:165:GLY:O	3:C:174:PHE:CZ	1.65	1.49
2:B:1456:PHE:CZ	2:B:1563:VAL:CG1	1.92	1.49
1:A:3121:LEU:CD2	1:A:3429:TRP:HB3	1.00	1.48
4:D:395:HIS:NE2	4:D:399:VAL:CG1	1.69	1.48
1:A:3257:VAL:CG2	1:A:3266:VAL:CG1	1.90	1.48
18:R:82:ALA:C	18:R:83:ASN:N	1.71	1.48
1:A:3257:VAL:CB	1:A:3266:VAL:HG13	1.41	1.48
1:A:580:LEU:CD2	1:A:640:SER:HB3	1.41	1.47
1:A:3103:TYR:CE2	1:A:3444:VAL:HG22	1.47	1.47
1:A:3232:ILE:CD1	1:A:3316:TRP:HZ3	1.24	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:16:ASN:HB2	15:O:132:GLU:CA	1.41	1.47
4:D:297:LYS:NZ	4:D:328:LEU:HB2	1.22	1.47
5:E:100:GLU:HB3	5:E:105:PHE:CD2	1.49	1.47
8:H:54:HIS:CE1	18:R:62:LYS:HA	1.49	1.47
1:A:1445:PHE:CE2	1:A:1564:CYS:CB	1.95	1.46
2:B:799:VAL:C	2:B:800:LYS:N	1.72	1.46
2:B:544:HIS:HE1	2:B:609:LEU:CD1	1.28	1.46
2:B:1456:PHE:CE1	2:B:1563:VAL:HG12	1.47	1.46
1:A:2839:LEU:HD11	19:A:4901:ADP:C6	1.47	1.46
1:A:3106:LYS:HG2	1:A:3443:LEU:CD1	1.46	1.46
3:C:196:PRO:CA	3:C:239:TRP:HZ2	1.24	1.46
4:D:172:GLU:HB3	13:M:64:HIS:CB	1.43	1.46
8:H:66:GLY:CA	9:I:56:ILE:HG21	1.40	1.46
3:C:60:LEU:HD21	3:C:69:TRP:CZ3	1.47	1.46
2:B:1474:MET:CE	2:B:1515:VAL:HG11	1.47	1.45
2:B:1511:VAL:HA	2:B:1570:VAL:CG2	1.41	1.45
2:B:3264:ASN:HB2	2:B:3306:ILE:CD1	1.43	1.45
3:C:2726:THR:CA	3:C:2729:LEU:HD12	1.45	1.45
3:C:2803:MET:CB	3:C:2814:CYS:SG	2.05	1.45
5:E:20:PHE:CD2	15:O:80:LYS:HE3	0.95	1.45
8:H:51:SER:HB2	18:R:32:LYS:CB	1.44	1.45
2:B:1395:LEU:CB	2:B:1430:ILE:CD1	1.95	1.45
6:F:56:TRP:CE2	6:F:91:GLN:OE1	1.67	1.45
18:R:120:GLU:CB	18:R:124:THR:CB	1.93	1.45
5:E:164:VAL:HG22	5:E:181:TYR:CE1	1.51	1.45
1:A:1009:THR:HB	1:A:1074:MET:SD	1.52	1.44
1:A:3121:LEU:CD2	1:A:3429:TRP:CB	1.76	1.44
3:C:2701:ILE:CD1	3:C:2704:LYS:CD	1.94	1.44
5:E:20:PHE:CE2	15:O:80:LYS:HG3	1.51	1.44
2:B:349:ASN:CB	2:B:416:LEU:HD21	1.46	1.44
3:C:2701:ILE:HD11	3:C:2704:LYS:CD	0.98	1.44
4:D:115:TYR:OH	14:N:78:HIS:CD2	1.69	1.44
6:F:14:LEU:HD23	6:F:23:TYR:CD2	1.51	1.44
2:B:111:VAL:C	2:B:118:LEU:CB	1.91	1.43
1:A:1513:LYS:CE	1:A:1578:ASN:HD21	1.31	1.43
4:D:294:GLN:NE2	4:D:297:LYS:HE2	1.12	1.43
1:A:1030:SER:O	1:A:1092:TRP:CH2	1.70	1.43
5:E:492:ASP:HA	5:E:495:TYR:CE2	1.54	1.43
1:A:3446:ASN:ND2	1:A:3488:LEU:HD13	1.27	1.43
2:B:682:LYS:NZ	5:E:186:PHE:CD1	1.71	1.43
7:G:120:THR:CG2	9:I:12:ILE:HG23	1.45	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1447:ILE:HG21	2:B:1504:TRP:NE1	1.25	1.42
2:B:1511:VAL:CA	2:B:1570:VAL:HG21	1.48	1.42
7:G:119:PRO:HD2	9:I:12:ILE:CD1	1.46	1.42
10:J:38:GLU:CD	15:O:29:PHE:CE2	1.94	1.42
2:B:10:PRO:CA	2:B:25:GLN:HA	0.97	1.42
2:B:1485:MET:CB	2:B:1505:ARG:NE	1.81	1.42
3:C:2709:ALA:HA	3:C:2758:MET:SD	1.56	1.42
4:D:552:PRO:HD2	4:D:595:PHE:CD2	1.53	1.42
8:H:66:GLY:CA	9:I:56:ILE:CG2	1.91	1.42
14:N:25:PHE:CZ	14:N:103:ILE:HG21	1.54	1.42
1:A:3257:VAL:CG1	1:A:3266:VAL:HG13	1.48	1.42
2:B:349:ASN:CA	2:B:416:LEU:HD21	1.43	1.42
2:B:2333:PRO:HB2	20:B:5601:ATP:N1	1.33	1.42
1:A:906:LEU:HD13	1:A:998:VAL:CG1	0.94	1.42
6:F:56:TRP:CD1	6:F:91:GLN:NE2	1.80	1.42
1:A:3232:ILE:CG1	1:A:3316:TRP:HZ3	1.20	1.41
1:A:1012:LYS:NZ	1:A:1072:GLY:N	1.67	1.41
2:B:903:ARG:CB	2:B:914:ASP:OD2	1.68	1.41
1:A:1012:LYS:CE	1:A:1071:ILE:HB	1.47	1.41
2:B:798:ASN:HB3	2:B:874:ALA:CB	1.47	1.41
2:B:3446:SER:HB2	2:B:3489:THR:CG2	1.48	1.41
3:C:132:GLU:CD	3:C:133:PRO:HD2	1.44	1.41
2:B:3178:VAL:CG1	2:B:3395:LEU:HD21	1.47	1.41
3:C:2792:TYR:O	3:C:2796:PRO:CG	1.64	1.41
4:D:251:MET:CB	7:G:136:MET:HE1	0.94	1.41
2:B:444:LEU:HD23	5:E:515:LYS:CE	1.50	1.41
2:B:3150:VAL:HG12	2:B:3423:VAL:CG2	1.50	1.41
1:A:853:VAL:HB	5:E:206:ASN:ND2	1.22	1.40
1:A:3106:LYS:CG	1:A:3443:LEU:HD21	1.47	1.40
2:B:1058:LYS:HG3	2:B:1166:GLU:CB	1.49	1.40
1:A:1133:GLY:CA	1:A:1268:ARG:O	1.67	1.40
6:F:56:TRP:CZ2	6:F:91:GLN:OE1	1.73	1.40
1:A:755:HIS:CE1	1:A:869:TYR:CD2	2.08	1.40
1:A:997:LYS:HD3	18:R:149:LEU:CA	1.49	1.40
1:A:1525:PHE:CB	1:A:1541:PHE:HD2	1.32	1.40
2:B:3:ASP:C	2:B:7:LYS:CB	1.91	1.40
2:B:1447:ILE:CG2	2:B:1504:TRP:NE1	1.70	1.40
5:E:395:VAL:CG2	5:E:402:ILE:CD1	1.99	1.40
6:F:56:TRP:CE2	6:F:91:GLN:CD	1.99	1.40
10:J:61:ALA:HB2	10:J:80:PHE:CE2	1.56	1.40
1:A:723:PHE:HE1	1:A:772:TRP:NE1	1.18	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:963:PHE:HE2	3:C:104:SER:N	1.11	1.40
2:B:1329:PRO:CA	2:B:1412:PHE:CB	1.99	1.40
3:C:2721:GLU:HB2	3:C:2803:MET:CE	1.51	1.40
1:A:576:TYR:CE1	1:A:620:PRO:O	1.75	1.39
2:B:861:ASP:CG	3:C:170:GLN:HB3	1.42	1.39
2:B:1467:PHE:CB	2:B:1470:LEU:HD11	1.52	1.39
3:C:2701:ILE:CD1	3:C:2704:LYS:HD2	1.49	1.39
16:P:11:THR:O	16:P:67:LEU:CB	1.67	1.39
1:A:1020:PHE:CZ	1:A:1069:TYR:CE1	2.09	1.39
1:A:155:GLY:CA	2:B:168:ILE:HA	1.53	1.39
2:B:444:LEU:HD23	5:E:515:LYS:NZ	1.33	1.39
10:J:77:HIS:ND1	11:K:70:VAL:CG2	1.85	1.39
1:A:1273:PHE:CA	4:D:166:PHE:CZ	1.98	1.38
2:B:861:ASP:OD2	3:C:170:GLN:CB	1.68	1.38
2:B:1456:PHE:CD2	2:B:1569:VAL:HG13	1.57	1.38
3:C:2701:ILE:HD11	3:C:2704:LYS:CE	1.52	1.38
3:C:2721:GLU:CB	3:C:2803:MET:HE2	1.53	1.38
1:A:2839:LEU:HD12	19:A:4901:ADP:N1	1.17	1.38
1:A:3257:VAL:CG2	1:A:3266:VAL:HG13	1.46	1.38
2:B:1058:LYS:CE	2:B:1166:GLU:O	1.70	1.38
1:A:1012:LYS:NZ	1:A:1072:GLY:H	0.89	1.38
1:A:1012:LYS:HE2	1:A:1071:ILE:CB	1.54	1.38
2:B:10:PRO:HA	2:B:25:GLN:C	1.47	1.38
16:P:15:SER:C	16:P:16:GLU:N	1.81	1.38
1:A:906:LEU:CD1	1:A:998:VAL:HG11	0.92	1.38
2:B:1511:VAL:CA	2:B:1570:VAL:CG2	1.98	1.38
2:B:1511:VAL:HG22	2:B:1570:VAL:CB	1.55	1.37
1:A:1422:SER:HB2	1:A:1486:HIS:NE2	1.39	1.37
1:A:3106:LYS:HG3	1:A:3443:LEU:CD2	1.53	1.37
2:B:501:ARG:CZ	4:D:491:GLN:HG3	1.54	1.37
2:B:3228:GLU:HG3	2:B:3346:PHE:CE1	1.58	1.37
4:D:105:MET:HE1	14:N:47:THR:C	1.45	1.37
1:A:817:VAL:C	1:A:818:LEU:HD13	1.45	1.36
1:A:972:TRP:CZ3	1:A:985:PHE:HZ	1.42	1.36
2:B:409:SER:HB2	2:B:413:PHE:CD1	1.56	1.36
14:N:72:ILE:CG2	15:O:97:ILE:HD11	1.53	1.36
1:A:972:TRP:CZ3	1:A:985:PHE:CZ	2.12	1.36
1:A:1513:LYS:CD	1:A:1578:ASN:HD21	1.35	1.36
1:A:1274:GLY:HA3	4:D:164:ASN:CB	1.55	1.36
2:B:433:ILE:HG23	2:B:463:PHE:CZ	1.61	1.36
1:A:1157:GLN:CG	1:A:1180:ARG:HH21	1.38	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:ALA:HB2	1:A:471:ASN:CB	1.55	1.35
1:A:3268:PHE:CE1	17:Q:35:ILE:CB	2.08	1.35
14:N:25:PHE:HE1	14:N:103:ILE:CG2	1.28	1.35
5:E:20:PHE:CE2	15:O:80:LYS:CE	2.00	1.35
18:R:82:ALA:C	18:R:83:ASN:CA	2.00	1.35
2:B:2333:PRO:CB	20:B:5601:ATP:N1	1.89	1.35
3:C:2669:ILE:O	3:C:2844:LEU:CB	1.73	1.35
2:B:1456:PHE:CZ	2:B:1563:VAL:HG12	1.55	1.35
3:C:2793:LEU:O	3:C:2796:PRO:CD	1.73	1.35
1:A:891:PHE:CD1	1:A:972:TRP:CE3	2.16	1.34
2:B:2333:PRO:C	20:B:5601:ATP:H2	1.35	1.34
4:D:75:LEU:HB2	15:O:102:LEU:CD1	1.54	1.34
14:N:72:ILE:CG2	15:O:97:ILE:CD1	2.04	1.34
17:Q:69:ASN:N	17:Q:92:ASP:CB	1.91	1.34
1:A:1633:ALA:CB	1:A:1839:LEU:O	1.74	1.34
2:B:1223:LYS:NZ	2:B:1277:ARG:CB	1.91	1.34
4:D:91:TYR:CE2	13:M:80:LEU:HB2	1.61	1.34
10:J:38:GLU:OE1	15:O:29:PHE:CD2	1.78	1.34
10:J:86:CYS:SG	11:K:61:VAL:CG2	2.15	1.34
2:B:3264:ASN:CB	2:B:3306:ILE:HD11	1.56	1.34
2:B:3301:ASN:ND2	2:B:3351:LYS:HZ3	1.22	1.34
3:C:265:LYS:HE2	3:C:356:THR:CG2	1.55	1.34
1:A:801:ILE:CG2	1:A:862:LEU:HD21	1.58	1.33
2:B:864:ASN:CB	2:B:947:LEU:CD2	1.98	1.33
3:C:2720:PRO:CB	3:C:2798:PHE:CE2	2.09	1.33
3:C:2727:ILE:CD1	3:C:2745:LYS:HD3	1.58	1.33
4:D:177:ASN:ND2	13:M:60:ASN:HB2	1.04	1.33
5:E:100:GLU:CB	5:E:105:PHE:HD2	1.39	1.33
1:A:3231:ASP:OD2	1:A:3258:PHE:CD2	1.82	1.33
2:B:3:ASP:CB	2:B:7:LYS:CB	2.03	1.33
2:B:501:ARG:HH12	4:D:491:GLN:CD	1.33	1.33
2:B:81:ILE:O	2:B:110:VAL:HA	1.22	1.33
4:D:174:GLN:CA	13:M:62:GLY:HA2	1.58	1.33
6:F:91:GLN:CG	6:F:96:THR:HG22	1.57	1.33
1:A:737:TYR:CE1	1:A:759:LEU:HD23	1.62	1.33
2:B:3:ASP:O	2:B:7:LYS:CB	1.71	1.33
4:D:174:GLN:HA	13:M:62:GLY:CA	1.58	1.33
5:E:395:VAL:HG23	5:E:402:ILE:CD1	1.55	1.33
1:A:686:VAL:CG2	1:A:731:LEU:HD23	1.57	1.32
1:A:755:HIS:CE1	1:A:869:TYR:HD2	1.44	1.32
1:A:970:TYR:O	1:A:983:ALA:HB1	1.18	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:11:LEU:HD22	6:F:23:TYR:CZ	1.64	1.32
1:A:659:TRP:CZ2	1:A:702:LEU:HD11	1.63	1.32
2:B:970:ALA:CB	3:C:345:TRP:HZ3	1.19	1.32
1:A:40:LEU:CB	1:A:41:LEU:N	1.92	1.32
1:A:1157:GLN:HG2	1:A:1180:ARG:NH2	1.01	1.32
1:A:3235:TYR:HE2	1:A:3269:LEU:CD1	1.32	1.32
2:B:444:LEU:HD11	2:B:527:PHE:CE1	1.61	1.32
1:A:3443:LEU:CD1	1:A:3493:PHE:HZ	1.40	1.32
4:D:90:ASP:OD2	13:M:32:LYS:HG3	1.20	1.32
2:B:801:ILE:CD1	2:B:878:ALA:CA	2.06	1.32
1:A:1632:ASP:HB2	1:A:1892:PHE:CD1	1.62	1.31
1:A:3351:PRO:N	1:A:3351:PRO:CA	1.71	1.31
3:C:2738:ILE:HG22	3:C:2746:PRO:CD	1.60	1.31
1:A:1020:PHE:HZ	1:A:1069:TYR:CE1	1.47	1.31
1:A:3298:ILE:O	1:A:3343:HIS:CE1	1.83	1.31
2:B:3139:GLY:HA3	2:B:3433:TRP:CH2	1.44	1.31
4:D:172:GLU:OE1	12:L:55:LEU:HD12	1.23	1.31
5:E:20:PHE:CE1	14:N:89:GLN:OE1	1.83	1.31
1:A:93:VAL:CB	1:A:125:PRO:CB	2.07	1.31
1:A:3235:TYR:CZ	1:A:3269:LEU:HD13	1.65	1.31
2:B:2333:PRO:C	20:B:5601:ATP:C2	2.08	1.31
8:H:12:LYS:HG2	8:H:80:TYR:CE2	1.64	1.31
1:A:601:PRO:CG	1:A:698:GLU:HG3	1.58	1.31
2:B:555:LEU:CD2	2:B:625:LEU:HD22	0.84	1.31
2:B:733:GLU:OE2	2:B:783:MET:HG3	1.31	1.31
2:B:801:ILE:HD13	2:B:937:PHE:CE1	1.66	1.31
2:B:3271:ASP:OD1	2:B:3272:PRO:HD2	1.24	1.31
3:C:2669:ILE:CD1	3:C:2847:ALA:HB2	1.59	1.31
1:A:601:PRO:HG2	1:A:698:GLU:CG	1.61	1.30
1:A:1126:VAL:HA	1:A:1131:SER:OG	1.29	1.30
1:A:1051:GLN:NE2	1:A:1096:TYR:OH	1.63	1.30
2:B:744:MET:SD	2:B:772:ILE:CG1	2.19	1.30
4:D:90:ASP:CG	13:M:32:LYS:HG3	1.55	1.30
4:D:208:TYR:CE1	9:I:100:ASN:HB3	1.64	1.30
8:H:65:PHE:HA	9:I:80:GLY:CA	1.61	1.30
1:A:935:VAL:CG2	1:A:944:LEU:HD22	1.61	1.30
4:D:517:ILE:CD1	4:D:527:ILE:HG23	1.61	1.30
3:C:2793:LEU:C	3:C:2796:PRO:CD	2.05	1.30
5:E:395:VAL:CG2	5:E:402:ILE:HD11	1.57	1.30
8:H:60:ILE:HG12	9:I:85:TYR:CB	1.60	1.30
14:N:85:ILE:CG2	14:N:98:ILE:CD1	2.09	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:957:GLN:HA	3:C:220:TRP:CH2	1.64	1.29
1:A:1273:PHE:HA	4:D:166:PHE:CZ	1.24	1.29
2:B:1488:LYS:CB	2:B:1501:VAL:CG1	2.09	1.29
2:B:2334:TYR:N	20:B:5601:ATP:C2	1.99	1.29
4:D:170:THR:CG2	13:M:66:ILE:HG12	0.82	1.29
5:E:20:PHE:CE2	15:O:80:LYS:CD	2.14	1.29
4:D:367:LEU:CG	4:D:371:THR:OG1	1.80	1.29
2:B:713:VAL:CG1	5:E:258:GLU:CG	2.09	1.29
4:D:294:GLN:HE21	4:D:297:LYS:CE	1.45	1.29
4:D:569:TYR:CE2	4:D:578:LYS:HG2	1.65	1.29
5:E:16:ASN:CB	15:O:132:GLU:CG	2.07	1.29
1:A:1487:VAL:HG23	1:A:1490:PHE:CE1	1.68	1.29
2:B:1511:VAL:CG1	2:B:1570:VAL:HG21	1.61	1.29
5:E:71:ARG:NH1	8:H:71:PHE:HZ	1.26	1.29
10:J:61:ALA:HB2	10:J:80:PHE:CZ	1.64	1.29
1:A:1638:THR:CG2	1:A:1655:GLN:HE21	1.46	1.28
4:D:207:ALA:CB	9:I:24:ILE:CD1	2.08	1.28
5:E:70:ASP:OD2	9:I:64:LYS:HE3	1.33	1.28
6:F:56:TRP:NE1	6:F:91:GLN:HE22	1.30	1.28
1:A:1638:THR:HG21	1:A:1655:GLN:NE2	1.43	1.28
3:C:2734:PHE:CZ	3:C:2767:LYS:HD2	1.67	1.28
4:D:163:ARG:NH2	12:L:71:ASP:O	1.63	1.28
4:D:196:CYS:SG	9:I:86:ASP:OD1	1.91	1.28
5:E:259:ASN:ND2	5:E:299:GLY:HA3	1.46	1.28
1:A:3232:ILE:CD1	1:A:3316:TRP:CZ3	2.05	1.28
2:B:500:GLU:OE1	2:B:535:ILE:CD1	1.80	1.28
2:B:1456:PHE:CD1	2:B:1467:PHE:HE1	1.52	1.28
10:J:32:CYS:CB	10:J:96:ILE:HG12	1.60	1.28
1:A:409:LEU:CB	1:A:464:PHE:CB	2.09	1.28
1:A:634:ILE:CG2	1:A:638:TYR:CZ	2.16	1.28
2:B:1492:LYS:CE	2:B:3606:GLN:OE1	1.81	1.28
2:B:1492:LYS:HE3	2:B:3606:GLN:CD	1.58	1.28
2:B:1467:PHE:CE2	2:B:1560:MET:SD	2.26	1.28
4:D:174:GLN:OE1	12:L:49:LEU:HD12	1.32	1.28
2:B:973:THR:OG1	3:C:344:ASN:HB2	1.17	1.27
2:B:1238:LYS:CE	2:B:1308:LEU:CA	2.12	1.27
3:C:535:GLU:CB	3:C:701:ASN:CB	2.12	1.27
3:C:2738:ILE:CG2	3:C:2746:PRO:HD3	1.62	1.27
4:D:543:MET:CE	4:D:563:MET:HE2	1.64	1.27
2:B:957:GLN:CG	3:C:164:HIS:HE1	1.31	1.27
2:B:963:PHE:CE2	3:C:104:SER:N	1.89	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:46:ASN:O	12:L:88:PHE:CD1	1.86	1.27
1:A:670:LEU:CB	1:A:692:ILE:HD11	1.65	1.27
1:A:1020:PHE:HA	1:A:1023:PHE:CE2	1.68	1.27
1:A:3106:LYS:CG	1:A:3443:LEU:CD2	2.09	1.27
1:A:3290:LEU:HD22	1:A:3335:TRP:CE2	1.69	1.27
2:B:467:VAL:HG12	2:B:471:THR:OG1	1.29	1.27
2:B:903:ARG:HB3	2:B:914:ASP:CG	1.57	1.27
2:B:1004:SER:OG	2:B:1094:TRP:HH2	1.17	1.27
2:B:1467:PHE:HB3	2:B:1470:LEU:CD1	1.62	1.27
4:D:552:PRO:CD	4:D:595:PHE:CD2	2.17	1.27
2:B:58:SER:CA	2:B:83:LYS:CB	2.09	1.27
3:C:2669:ILE:CD1	3:C:2847:ALA:CB	2.10	1.27
4:D:212:ILE:CD1	9:I:19:MET:HE1	1.62	1.27
9:I:26:ASN:HB2	9:I:98:PHE:CE2	1.68	1.27
1:A:634:ILE:HG22	1:A:638:TYR:CZ	1.69	1.26
1:A:3347:LYS:O	1:A:3351:PRO:HD2	1.29	1.26
2:B:1456:PHE:CD1	2:B:1467:PHE:CE1	2.22	1.26
1:A:891:PHE:CE1	1:A:972:TRP:HE3	1.34	1.26
4:D:255:ASN:ND2	7:G:134:GLU:OE1	1.67	1.26
4:D:367:LEU:CD1	4:D:371:THR:OG1	1.82	1.26
1:A:853:VAL:CB	5:E:206:ASN:ND2	1.97	1.26
2:B:864:ASN:HB3	2:B:947:LEU:CB	1.64	1.26
2:B:1474:MET:SD	2:B:1515:VAL:CG1	2.23	1.26
14:N:85:ILE:CG2	14:N:98:ILE:HD11	1.63	1.26
1:A:686:VAL:HG21	1:A:731:LEU:CD2	1.66	1.26
1:A:723:PHE:CE1	1:A:772:TRP:NE1	2.01	1.26
2:B:57:ASN:HA	2:B:70:LYS:O	1.34	1.26
2:B:582:MET:CE	2:B:587:GLY:CA	1.86	1.26
3:C:143:PRO:HD3	3:C:187:TRP:CD1	1.71	1.26
4:D:75:LEU:CB	15:O:102:LEU:HD11	1.65	1.26
4:D:107:VAL:HG23	15:O:97:ILE:O	1.29	1.26
6:F:50:ALA:CA	8:H:83:GLN:HG3	1.63	1.26
8:H:51:SER:CB	18:R:32:LYS:CB	2.14	1.26
1:A:3235:TYR:OH	1:A:3269:LEU:HD12	1.28	1.26
1:A:3347:LYS:O	1:A:3351:PRO:CD	1.83	1.26
2:B:429:LEU:HG	2:B:489:PHE:CZ	1.71	1.26
2:B:798:ASN:CB	2:B:874:ALA:HB1	1.66	1.26
3:C:60:LEU:CD2	3:C:69:TRP:CZ3	2.18	1.26
4:D:170:THR:HG21	13:M:66:ILE:CG1	1.42	1.26
4:D:398:PRO:CD	4:D:419:SER:HB2	1.66	1.26
1:A:870:PRO:O	1:A:871:LEU:HD13	1.35	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3238:HIS:CE1	2:B:3335:LYS:HG3	1.69	1.25
8:H:52:ARG:HA	18:R:63:ASN:CB	1.65	1.25
2:B:58:SER:C	2:B:68:SER:O	1.78	1.25
3:C:265:LYS:CE	3:C:356:THR:HG22	1.65	1.25
4:D:251:MET:CB	7:G:136:MET:CE	1.81	1.25
4:D:543:MET:HE3	4:D:563:MET:CE	1.64	1.25
5:E:61:VAL:CG2	10:J:106:LEU:CD2	2.14	1.25
14:N:85:ILE:CB	14:N:98:ILE:HD11	1.65	1.25
1:A:3306:LEU:O	1:A:3306:LEU:HD13	1.10	1.25
1:A:688:PHE:HE1	1:A:693:MET:CG	1.49	1.25
1:A:817:VAL:O	1:A:818:LEU:CD1	1.82	1.25
1:A:1513:LYS:HE2	1:A:1578:ASN:ND2	1.51	1.25
2:B:1511:VAL:CB	2:B:1570:VAL:CG2	2.12	1.25
4:D:552:PRO:HD2	4:D:595:PHE:CE2	1.70	1.25
5:E:77:GLU:OE2	5:E:87:ASN:ND2	1.67	1.25
14:N:89:GLN:NE2	14:N:94:ASP:OD2	1.66	1.25
1:A:3257:VAL:HG11	1:A:3266:VAL:CB	1.65	1.25
3:C:2734:PHE:CE2	3:C:2767:LYS:HG3	1.72	1.25
5:E:20:PHE:HE1	14:N:89:GLN:OE1	0.95	1.25
1:A:577:ALA:CB	1:A:636:ARG:HD3	1.67	1.25
1:A:1051:GLN:CD	1:A:1096:TYR:CZ	2.15	1.25
1:A:1114:GLN:O	1:A:1118:LEU:CD2	1.83	1.25
2:B:444:LEU:HD23	2:B:526:ASN:ND2	1.48	1.25
2:B:1234:GLU:OE1	2:B:1305:LEU:HA	1.33	1.25
2:B:1238:LYS:HE3	2:B:1308:LEU:CA	1.65	1.25
3:C:2743:ASN:ND2	3:C:2785:VAL:HG12	1.52	1.24
6:F:56:TRP:NE1	6:F:91:GLN:NE2	1.82	1.24
1:A:971:ASN:HA	1:A:985:PHE:CE2	1.72	1.24
1:A:1143:ARG:NE	4:D:169:ASN:ND2	1.85	1.24
3:C:2720:PRO:CB	3:C:2798:PHE:HE2	1.45	1.24
4:D:266:TYR:OH	5:E:121:TYR:HB3	1.29	1.24
4:D:414:PHE:HD2	4:D:426:TRP:CD1	1.55	1.24
6:F:81:THR:HG21	7:G:114:VAL:CG2	1.67	1.24
10:J:36:ILE:HG12	10:J:72:PHE:CE1	1.72	1.24
2:B:1450:TRP:O	2:B:1454:GLN:HG3	1.09	1.24
3:C:2740:ILE:CG1	3:C:2744:LYS:HB3	1.65	1.24
4:D:174:GLN:CB	13:M:62:GLY:HA3	1.67	1.24
2:B:794:LEU:HA	2:B:797:PHE:CD2	1.71	1.24
18:R:97:ALA:CB	18:R:101:ASN:O	1.84	1.24
2:B:429:LEU:CD1	2:B:489:PHE:CD2	2.20	1.24
10:J:74:PRO:HG3	12:L:102:ARG:CD	1.65	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:75:GLN:HB3	15:O:93:GLN:CG	1.65	1.24
1:A:1632:ASP:HB2	1:A:1892:PHE:CE1	1.71	1.23
2:B:467:VAL:CG1	2:B:471:THR:OG1	1.87	1.23
2:B:794:LEU:HA	2:B:797:PHE:CE2	1.72	1.23
2:B:871:ILE:CG1	2:B:944:ILE:HD11	1.68	1.23
2:B:1109:THR:O	2:B:1113:LEU:HG	1.19	1.23
2:B:1117:ILE:CG1	2:B:1190:ILE:HD11	1.67	1.23
5:E:46:ASN:O	12:L:88:PHE:CG	1.89	1.23
5:E:99:ILE:CD1	6:F:31:ILE:HD11	1.69	1.23
10:J:61:ALA:CB	10:J:80:PHE:CE2	2.20	1.23
2:B:864:ASN:HB3	2:B:947:LEU:CG	1.49	1.23
2:B:970:ALA:HB2	3:C:345:TRP:CZ3	1.50	1.23
2:B:3153:LEU:CD1	2:B:3707:LEU:CD1	1.98	1.23
3:C:2726:THR:CA	3:C:2729:LEU:CD1	2.04	1.23
3:C:2727:ILE:O	3:C:2730:LEU:CD1	1.87	1.23
4:D:175:THR:OG1	13:M:61:PHE:N	1.69	1.23
5:E:261:HIS:CE1	5:E:283:SER:HG	1.57	1.23
14:N:72:ILE:CD1	15:O:97:ILE:HD13	1.68	1.23
1:A:614:PHE:CD1	1:A:644:LEU:HD22	1.72	1.23
1:A:728:ASN:ND2	4:D:396:THR:HG22	1.51	1.23
2:B:2544:LYS:N	19:B:5501:ADP:O1A	1.72	1.23
2:B:2666:ARG:HD2	20:B:5601:ATP:O1G	1.12	1.23
4:D:80:PRO:HG3	15:O:103:TRP:NE1	1.49	1.23
4:D:585:VAL:HG12	4:D:588:PRO:CD	1.69	1.23
5:E:23:THR:CG2	14:N:88:TYR:HD1	1.52	1.23
1:A:403:ALA:CB	1:A:471:ASN:CB	2.17	1.23
1:A:997:LYS:CE	18:R:149:LEU:HA	1.62	1.23
1:A:1133:GLY:HA3	1:A:1268:ARG:C	1.62	1.23
1:A:3255:GLU:OE1	1:A:3269:LEU:O	1.54	1.23
1:A:3443:LEU:HD12	1:A:3493:PHE:CZ	1.72	1.23
2:B:55:GLN:O	2:B:85:LYS:HA	1.32	1.23
1:A:3446:ASN:CG	1:A:3488:LEU:HD13	1.65	1.22
7:G:119:PRO:HG2	9:I:12:ILE:CG2	1.69	1.22
1:A:1012:LYS:HZ1	1:A:1072:GLY:N	1.21	1.22
1:A:3257:VAL:HG11	1:A:3266:VAL:CG1	1.69	1.22
3:C:2727:ILE:O	3:C:2730:LEU:HD11	1.33	1.22
3:C:2727:ILE:HD11	3:C:2745:LYS:CG	1.66	1.22
1:A:634:ILE:HG22	1:A:638:TYR:CE2	1.74	1.22
1:A:1513:LYS:HE2	1:A:1578:ASN:CG	1.64	1.22
2:B:3230:ALA:CB	2:B:3342:ASN:CG	2.06	1.22
5:E:48:ILE:N	12:L:88:PHE:HE2	1.36	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3235:TYR:CZ	1:A:3269:LEU:CD1	2.17	1.22
2:B:3118:TYR:CE2	2:B:3452:LEU:CA	2.05	1.22
4:D:172:GLU:HA	13:M:64:HIS:CA	1.70	1.22
4:D:395:HIS:NE2	4:D:399:VAL:HG12	1.35	1.22
5:E:20:PHE:CE2	15:O:80:LYS:CG	2.12	1.22
10:J:26:VAL:CG2	10:J:97:TYR:O	1.87	1.22
14:N:75:GLN:CB	15:O:93:GLN:HG3	1.70	1.22
1:A:993:LYS:HE2	18:R:131:ILE:CB	1.70	1.22
1:A:1418:ASP:OD1	1:A:3604:LYS:NZ	1.71	1.22
2:B:444:LEU:CA	5:E:515:LYS:CG	1.97	1.22
2:B:733:GLU:OE2	2:B:783:MET:CG	1.88	1.22
2:B:1110:GLN:O	2:B:1114:LEU:HG	1.04	1.22
3:C:99:GLY:HA3	3:C:149:HIS:CE1	1.75	1.22
6:F:14:LEU:CD2	6:F:23:TYR:CB	2.16	1.22
2:B:58:SER:O	2:B:68:SER:C	1.82	1.21
2:B:444:LEU:C	5:E:515:LYS:HG3	1.66	1.21
4:D:208:TYR:CE1	9:I:100:ASN:CB	2.21	1.21
5:E:61:VAL:HG22	10:J:106:LEU:CD2	1.68	1.21
1:A:1030:SER:O	1:A:1092:TRP:HH2	0.87	1.21
2:B:467:VAL:O	2:B:471:THR:OG1	1.58	1.21
2:B:801:ILE:HD13	2:B:937:PHE:CD1	1.73	1.21
2:B:903:ARG:HB3	2:B:914:ASP:OD2	1.03	1.21
2:B:1117:ILE:HG12	2:B:1190:ILE:CD1	1.70	1.21
2:B:3300:GLU:OE2	2:B:3354:LYS:CE	1.87	1.21
3:C:196:PRO:CA	3:C:239:TRP:CZ2	2.04	1.21
5:E:310:LEU:HG	5:E:358:ARG:NH2	1.35	1.21
1:A:398:TRP:CB	1:A:490:LYS:CB	2.18	1.21
1:A:1126:VAL:HB	1:A:1201:TYR:OH	1.09	1.21
2:B:429:LEU:HD12	2:B:489:PHE:CD2	1.75	1.21
2:B:946:ARG:HA	2:B:955:PHE:CE2	1.75	1.21
4:D:252:VAL:HG13	7:G:149:GLN:NE2	1.54	1.21
2:B:443:GLU:OE1	5:E:514:ARG:NH1	1.74	1.21
1:A:8:LYS:CB	1:A:109:SER:HA	1.70	1.21
1:A:813:VAL:O	1:A:816:VAL:HG12	1.08	1.21
1:A:1513:LYS:CE	1:A:1578:ASN:ND2	2.02	1.21
2:B:1223:LYS:HZ3	2:B:1277:ARG:CB	1.51	1.21
3:C:165:GLY:O	3:C:174:PHE:CE2	1.92	1.21
3:C:2745:LYS:CE	3:C:2749:VAL:HG11	1.70	1.21
5:E:310:LEU:CD2	5:E:358:ARG:NH2	2.04	1.21
4:D:90:ASP:OD1	13:M:32:LYS:HA	1.41	1.20
1:A:580:LEU:HD21	1:A:640:SER:CA	1.71	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3303:ILE:HD11	1:A:3340:TYR:CE2	1.76	1.20
2:B:791:HIS:CE1	2:B:866:ILE:HD13	1.75	1.20
3:C:261:ILE:CG1	3:C:360:PRO:HB3	1.70	1.20
3:C:2723:PHE:CE1	3:C:2749:VAL:CG1	2.24	1.20
14:N:72:ILE:HG23	15:O:97:ILE:CD1	1.65	1.20
2:B:1058:LYS:HE2	2:B:1166:GLU:O	1.04	1.20
1:A:1126:VAL:CB	1:A:1201:TYR:OH	1.88	1.20
2:B:3228:GLU:CG	2:B:3346:PHE:CE1	2.23	1.20
5:E:16:ASN:HB2	15:O:132:GLU:CG	1.71	1.20
3:C:2711:SER:CB	3:C:2751:TRP:CZ2	2.24	1.19
3:C:2734:PHE:CE2	3:C:2767:LYS:CD	2.26	1.19
1:A:576:TYR:CD1	1:A:620:PRO:O	1.92	1.19
1:A:801:ILE:CB	1:A:862:LEU:HD21	1.70	1.19
2:B:3178:VAL:HG11	2:B:3395:LEU:CD2	1.71	1.19
6:F:14:LEU:HD23	6:F:23:TYR:CG	1.76	1.19
1:A:935:VAL:HG22	1:A:944:LEU:HD21	1.22	1.19
1:A:3103:TYR:HE2	1:A:3444:VAL:CG2	1.56	1.19
1:A:3443:LEU:CD1	1:A:3493:PHE:CZ	2.23	1.19
2:B:1058:LYS:CB	2:B:1166:GLU:HB3	1.73	1.19
5:E:70:ASP:OD1	8:H:70:THR:OG1	1.56	1.19
16:P:23:TYR:CB	16:P:93:ILE:CB	2.21	1.19
2:B:1447:ILE:HG22	2:B:1504:TRP:CE2	1.75	1.19
5:E:112:LEU:HD21	6:F:97:MET:CG	1.72	1.19
14:N:115:MET:HE2	15:O:129:CYS:SG	1.82	1.19
1:A:1132:LEU:HB3	1:A:1272:LEU:CD1	1.73	1.19
2:B:10:PRO:CB	2:B:25:GLN:CA	2.07	1.19
2:B:60:ASN:CA	2:B:81:ILE:HA	1.73	1.19
2:B:1474:MET:CE	2:B:1515:VAL:CG1	2.19	1.19
4:D:111:MET:HE1	15:O:90:ILE:CB	1.71	1.19
4:D:172:GLU:CA	13:M:64:HIS:CB	2.20	1.19
4:D:512:HIS:CD2	4:D:513:PRO:HD2	1.76	1.19
5:E:16:ASN:HB2	15:O:132:GLU:CB	1.73	1.19
1:A:1445:PHE:CD2	1:A:1564:CYS:CB	2.26	1.18
4:D:294:GLN:NE2	4:D:297:LYS:CE	2.01	1.18
14:N:72:ILE:CG2	15:O:97:ILE:CG1	2.19	1.18
1:A:700:LYS:HE3	1:A:720:GLU:OE1	1.38	1.18
2:B:518:TYR:CG	5:E:404:ARG:NH1	2.09	1.18
2:B:3373:GLU:O	2:B:3377:VAL:HG13	1.42	1.18
4:D:398:PRO:HD2	4:D:419:SER:CB	1.71	1.18
4:D:569:TYR:CZ	4:D:578:LYS:CG	2.25	1.18
6:F:81:THR:CG2	7:G:114:VAL:HG21	1.71	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:54:HIS:CE1	18:R:62:LYS:CA	2.16	1.18
8:H:66:GLY:HA3	9:I:56:ILE:HG23	1.20	1.18
1:A:3251:ILE:HG13	17:Q:82:ASN:CA	1.72	1.18
2:B:467:VAL:O	2:B:471:THR:CB	1.92	1.18
2:B:467:VAL:O	2:B:471:THR:N	1.75	1.18
2:B:871:ILE:HG13	2:B:944:ILE:CD1	1.72	1.18
2:B:979:ILE:O	2:B:983:CYS:SG	2.01	1.18
4:D:172:GLU:CB	13:M:64:HIS:CB	2.09	1.18
1:A:747:ILE:HD11	1:A:889:TYR:CZ	1.79	1.18
1:A:972:TRP:CE3	1:A:985:PHE:HZ	1.61	1.18
2:B:436:PHE:CD1	2:B:499:LEU:HD21	1.77	1.18
2:B:575:ASN:N	5:E:481:GLN:HE22	1.39	1.18
2:B:1110:GLN:O	2:B:1114:LEU:CG	1.92	1.18
3:C:2738:ILE:HD12	3:C:2740:ILE:O	1.40	1.18
4:D:569:TYR:OH	4:D:578:LYS:HD3	1.40	1.18
4:D:105:MET:HE1	14:N:48:GLN:N	1.56	1.18
4:D:107:VAL:HG23	15:O:97:ILE:C	1.69	1.18
1:A:659:TRP:CZ2	1:A:702:LEU:CD1	2.25	1.17
2:B:111:VAL:O	2:B:118:LEU:CB	1.91	1.17
2:B:349:ASN:CB	2:B:416:LEU:CD2	2.21	1.17
2:B:1127:ASN:HB3	2:B:1128:PRO:CD	1.73	1.17
5:E:16:ASN:CB	15:O:132:GLU:HA	1.72	1.17
8:H:51:SER:C	18:R:63:ASN:HA	1.66	1.17
1:A:402:PRO:CB	1:A:485:THR:CB	2.21	1.17
1:A:817:VAL:C	1:A:818:LEU:CD1	2.14	1.17
1:A:906:LEU:CG	1:A:998:VAL:HG11	1.75	1.17
1:A:1012:LYS:HD3	1:A:1071:ILE:HD12	1.22	1.17
2:B:445:GLY:HA2	5:E:511:ARG:NH1	1.59	1.17
2:B:501:ARG:NH1	4:D:491:GLN:CD	2.01	1.17
2:B:1607:PRO:CB	2:B:1946:SER:HB3	1.74	1.17
3:C:2734:PHE:HE2	3:C:2767:LYS:CG	1.57	1.17
3:C:2745:LYS:HE3	3:C:2749:VAL:CG1	1.73	1.17
4:D:238:SER:C	4:D:239:THR:N	2.02	1.17
1:A:3230:LEU:O	1:A:3233:ILE:HG22	1.42	1.17
1:A:3251:ILE:CG1	17:Q:82:ASN:HA	1.72	1.17
1:A:3268:PHE:CD1	17:Q:35:ILE:CB	2.27	1.17
2:B:426:ILE:O	2:B:430:THR:HG23	1.42	1.17
2:B:679:ARG:O	2:B:683:GLU:HG3	1.41	1.17
2:B:1123:GLY:HA2	2:B:1197:PHE:CZ	1.77	1.17
5:E:119:CYS:HB3	6:F:88:ILE:HD13	1.22	1.17
10:J:95:PHE:CZ	10:J:106:LEU:HD11	1.80	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:97:ALA:HB1	18:R:101:ASN:O	0.99	1.17
1:A:801:ILE:HG21	1:A:862:LEU:CD2	1.73	1.17
2:B:3228:GLU:CG	2:B:3346:PHE:HE1	1.55	1.17
5:E:48:ILE:N	12:L:88:PHE:CE2	2.12	1.17
2:B:3300:GLU:OE2	2:B:3354:LYS:NZ	1.76	1.17
5:E:46:ASN:N	12:L:88:PHE:O	1.75	1.17
14:N:72:ILE:HD13	15:O:97:ILE:HD13	1.26	1.17
1:A:906:LEU:HD13	1:A:998:VAL:CB	1.75	1.16
1:A:1157:GLN:CG	1:A:1180:ARG:NH2	1.96	1.16
1:A:1449:ILE:HA	1:A:1459:LEU:CD2	1.73	1.16
2:B:3:ASP:CA	2:B:7:LYS:CB	2.23	1.16
2:B:801:ILE:HD12	2:B:878:ALA:C	1.68	1.16
2:B:1559:MET:CE	2:B:1577:ARG:HH21	1.58	1.16
1:A:1012:LYS:HB2	1:A:1071:ILE:CD1	1.75	1.16
1:A:3248:LEU:HB2	17:Q:104:TYR:CE1	1.80	1.16
2:B:718:ILE:HD11	2:B:773:VAL:HB	1.26	1.16
4:D:236:MET:CB	7:G:143:PHE:CE2	2.28	1.16
1:A:2839:LEU:CD1	19:A:4901:ADP:C6	2.15	1.16
1:A:3235:TYR:OH	1:A:3269:LEU:CD1	1.93	1.16
3:C:2694:ALA:HB2	3:C:2823:TYR:CB	1.75	1.16
3:C:2726:THR:HA	3:C:2729:LEU:CG	1.75	1.16
2:B:60:ASN:HA	2:B:81:ILE:CA	1.73	1.16
2:B:864:ASN:HA	2:B:947:LEU:CG	1.76	1.16
8:H:46:LYS:HE2	9:I:86:ASP:HB2	1.24	1.16
10:J:21:PHE:HZ	10:J:37:LEU:HD22	0.99	1.16
1:A:1051:GLN:CD	1:A:1096:TYR:OH	1.87	1.16
1:A:3252:GLN:O	1:A:3255:GLU:HG2	1.43	1.16
1:A:3349:VAL:O	1:A:3353:ARG:CB	1.93	1.16
2:B:433:ILE:CG2	2:B:463:PHE:HZ	1.58	1.16
2:B:436:PHE:CE1	2:B:499:LEU:HD21	1.55	1.16
2:B:3150:VAL:CG1	2:B:3423:VAL:HG23	1.75	1.16
2:B:3261:ILE:O	2:B:3306:ILE:HG21	1.46	1.16
3:C:2745:LYS:HD2	3:C:2749:VAL:HG22	1.23	1.16
3:C:2803:MET:HB3	3:C:2814:CYS:SG	1.75	1.16
1:A:580:LEU:HD21	1:A:640:SER:CB	1.76	1.15
2:B:3302:ILE:HG22	2:B:3303:GLU:H	1.09	1.15
3:C:2727:ILE:HD13	3:C:2745:LYS:CD	1.73	1.15
4:D:212:ILE:CD1	9:I:19:MET:CE	2.23	1.15
8:H:43:THR:HA	9:I:86:ASP:OD2	1.42	1.15
1:A:21:LEU:O	1:A:25:ASP:CB	1.94	1.15
1:A:1143:ARG:NE	4:D:169:ASN:HD21	1.43	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3257:VAL:HG21	1:A:3266:VAL:HG11	1.20	1.15
2:B:444:LEU:CD2	5:E:515:LYS:HE2	1.76	1.15
5:E:57:SER:N	10:J:90:HIS:O	1.77	1.15
5:E:394:TRP:CD1	5:E:401:PRO:HA	1.80	1.15
7:G:119:PRO:HD2	9:I:12:ILE:HD12	1.18	1.15
10:J:38:GLU:OE1	15:O:29:PHE:CE2	1.96	1.15
1:A:755:HIS:ND1	1:A:869:TYR:CD2	2.15	1.15
1:A:3442:LYS:HB3	1:A:3485:THR:HG23	1.21	1.15
2:B:1456:PHE:CE1	2:B:1563:VAL:CG1	2.22	1.15
2:B:3140:LEU:HB2	2:B:3433:TRP:HE3	0.98	1.15
4:D:107:VAL:CG2	15:O:97:ILE:O	1.95	1.15
4:D:517:ILE:HG12	4:D:550:TRP:CZ2	1.82	1.15
1:A:3236:ILE:HG23	1:A:3333:LEU:HD23	1.17	1.15
2:B:349:ASN:HA	2:B:416:LEU:HD21	1.16	1.15
2:B:467:VAL:C	2:B:471:THR:OG1	1.89	1.15
2:B:660:LEU:HG	2:B:755:ILE:HD13	1.24	1.15
2:B:1485:MET:CB	2:B:1505:ARG:CZ	2.23	1.15
4:D:170:THR:HG22	13:M:66:ILE:CA	1.77	1.15
14:N:25:PHE:HE1	14:N:103:ILE:HG23	1.01	1.15
1:A:600:MET:CE	1:A:697:ARG:HH11	1.60	1.15
4:D:68:GLU:CG	5:E:12:LYS:HA	1.75	1.15
4:D:319:TYR:O	4:D:320:ASP:OD1	1.63	1.15
5:E:71:ARG:NH1	8:H:71:PHE:CZ	2.04	1.15
5:E:261:HIS:CE1	5:E:283:SER:OG	1.99	1.15
8:H:66:GLY:HA3	9:I:56:ILE:HG22	1.29	1.15
1:A:613:LEU:HD21	4:D:523:TRP:CH2	1.82	1.14
1:A:813:VAL:O	1:A:816:VAL:CG1	1.95	1.14
2:B:682:LYS:CE	5:E:186:PHE:CE1	2.30	1.14
2:B:1051:ASP:CG	2:B:1162:THR:HG21	1.72	1.14
5:E:384:LEU:HD23	5:E:417:TRP:CE2	1.82	1.14
1:A:155:GLY:CA	2:B:167:GLN:O	1.95	1.14
3:C:2738:ILE:CD1	3:C:2740:ILE:O	1.95	1.14
5:E:310:LEU:CD1	5:E:358:ARG:NH2	2.09	1.14
6:F:11:LEU:HB3	6:F:23:TYR:OH	1.46	1.14
10:J:21:PHE:CZ	10:J:37:LEU:HD22	1.82	1.14
1:A:14:LYS:CB	2:B:19:SER:O	1.94	1.14
1:A:935:VAL:CG2	1:A:944:LEU:CD2	2.16	1.14
1:A:1133:GLY:HA3	1:A:1268:ARG:O	0.98	1.14
2:B:582:MET:HE2	2:B:587:GLY:HA3	1.30	1.14
2:B:3262:LEU:O	2:B:3297:PHE:HZ	1.29	1.14
14:N:25:PHE:CZ	14:N:103:ILE:HD13	1.82	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:72:ILE:HG12	15:O:97:ILE:CG2	1.77	1.14
1:A:601:PRO:HB2	1:A:698:GLU:CD	1.71	1.14
1:A:871:LEU:HD23	1:A:875:VAL:CG1	1.76	1.14
1:A:1633:ALA:O	1:A:1838:PHE:HE2	1.30	1.14
2:B:409:SER:CA	2:B:413:PHE:HD1	1.60	1.14
3:C:2669:ILE:C	3:C:2844:LEU:CB	2.19	1.14
3:C:2734:PHE:CE2	3:C:2767:LYS:CG	2.30	1.14
4:D:172:GLU:HG3	12:L:51:LYS:HE2	1.29	1.14
4:D:174:GLN:HB2	13:M:62:GLY:HA3	1.16	1.14
11:K:77:PHE:CZ	11:K:88:LEU:HD11	1.82	1.14
16:P:11:THR:O	16:P:67:LEU:CA	1.94	1.14
1:A:580:LEU:CD2	1:A:640:SER:CB	2.25	1.14
2:B:1511:VAL:HA	2:B:1570:VAL:CG1	1.77	1.14
2:B:3301:ASN:ND2	2:B:3351:LYS:NZ	1.96	1.14
4:D:517:ILE:HG12	4:D:550:TRP:CE2	1.83	1.14
5:E:16:ASN:CB	15:O:132:GLU:CA	2.26	1.14
1:A:1051:GLN:OE1	1:A:1096:TYR:CZ	1.98	1.13
1:A:1504:VAL:HG22	1:A:1565:CYS:CB	1.79	1.13
2:B:87:LYS:O	2:B:103:ASN:CB	1.96	1.13
2:B:956:LEU:HD12	2:B:959:ILE:HD11	1.17	1.13
3:C:176:ASP:OD2	3:C:189:ARG:NH1	1.81	1.13
9:I:26:ASN:HB2	9:I:98:PHE:CZ	1.83	1.13
2:B:532:THR:HG22	2:B:536:ILE:HG13	1.27	1.13
2:B:660:LEU:HB2	2:B:755:ILE:HD12	1.30	1.13
2:B:1456:PHE:CE2	2:B:1569:VAL:HG13	1.83	1.13
1:A:936:GLN:HA	1:A:1081:ILE:HG13	1.20	1.13
1:A:1009:THR:CB	1:A:1074:MET:SD	2.35	1.13
1:A:1126:VAL:HG13	1:A:1131:SER:C	1.72	1.13
1:A:3273:TYR:OH	1:A:3277:GLY:CA	1.97	1.13
2:B:904:LEU:HD11	2:B:911:ILE:CG2	1.79	1.13
2:B:1607:PRO:CB	2:B:1946:SER:CB	2.26	1.13
3:C:2727:ILE:CD1	3:C:2745:LYS:CD	2.24	1.13
4:D:595:PHE:HD1	4:D:602:LEU:HD21	1.12	1.13
8:H:46:LYS:NZ	9:I:86:ASP:O	1.79	1.13
8:H:51:SER:O	18:R:63:ASN:HA	1.42	1.13
8:H:60:ILE:HG12	9:I:85:TYR:HB2	1.29	1.13
10:J:48:LEU:CD1	10:J:100:ILE:CD1	2.25	1.13
1:A:1393:TYR:O	1:A:1397:ASP:CB	1.97	1.13
5:E:20:PHE:CG	15:O:80:LYS:HE3	1.84	1.13
5:E:164:VAL:CG2	5:E:181:TYR:CE1	2.30	1.13
1:A:601:PRO:HB2	1:A:698:GLU:OE1	1.48	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:891:PHE:CE1	1:A:972:TRP:CZ3	2.38	1.12
1:A:3446:ASN:ND2	1:A:3488:LEU:CD1	2.11	1.12
3:C:2690:LEU:CB	3:C:2826:VAL:HG21	1.76	1.12
5:E:117:GLU:HG3	6:F:17:LEU:HD13	1.30	1.12
11:K:77:PHE:HD1	11:K:90:TYR:HB3	1.07	1.12
14:N:85:ILE:HG21	14:N:98:ILE:CD1	1.74	1.13
2:B:3238:HIS:ND1	2:B:3335:LYS:HG3	1.64	1.12
1:A:1449:ILE:HA	1:A:1459:LEU:HD23	1.20	1.12
2:B:533:ARG:HB3	2:B:534:PRO:CD	1.79	1.12
3:C:2701:ILE:CD1	3:C:2704:LYS:CE	2.19	1.12
4:D:360:ALA:HB3	5:E:133:PHE:CZ	1.83	1.12
5:E:266:THR:HG21	5:E:320:THR:HA	1.18	1.12
1:A:155:GLY:HA3	2:B:167:GLN:C	1.73	1.12
2:B:531:LEU:CD2	2:B:540:LEU:HD11	1.79	1.12
2:B:555:LEU:CG	2:B:625:LEU:HD22	1.78	1.12
2:B:762:ILE:CG2	2:B:766:ILE:HG13	1.79	1.12
2:B:1119:LYS:HB3	2:B:1138:LYS:NZ	1.64	1.12
2:B:1492:LYS:CE	2:B:3606:GLN:CD	2.20	1.12
2:B:3139:GLY:CA	2:B:3433:TRP:CH2	2.19	1.12
3:C:2673:VAL:O	3:C:2841:THR:HG22	1.49	1.12
3:C:2784:ASN:O	3:C:2787:ILE:HG22	1.47	1.12
4:D:92:TYR:CG	13:M:29:LYS:HB3	1.82	1.12
4:D:398:PRO:CD	4:D:419:SER:CB	2.26	1.12
5:E:99:ILE:HG21	6:F:33:LEU:HD11	1.30	1.12
1:A:155:GLY:CA	2:B:168:ILE:CA	2.28	1.12
1:A:899:LEU:HD13	1:A:992:ASP:OD2	1.49	1.12
1:A:1132:LEU:C	1:A:1272:LEU:CD1	2.21	1.12
1:A:1504:VAL:HG22	1:A:1565:CYS:HB3	1.26	1.12
2:B:409:SER:HB3	2:B:413:PHE:CD1	1.71	1.12
2:B:713:VAL:HG11	5:E:258:GLU:CG	1.76	1.12
2:B:871:ILE:HG13	2:B:944:ILE:HD11	1.20	1.12
3:C:60:LEU:HD21	3:C:69:TRP:CH2	1.82	1.12
3:C:1983:THR:HB	19:C:4702:ADP:HN62	1.14	1.12
4:D:114:ASP:OD1	5:E:43:ARG:CZ	1.96	1.12
4:D:212:ILE:HD13	9:I:19:MET:HE1	1.21	1.12
1:A:807:GLU:HG2	1:A:811:LYS:HE3	1.16	1.12
1:A:1623:ILE:HD11	1:A:1680:ILE:HD13	1.32	1.12
2:B:1456:PHE:HZ	2:B:1563:VAL:HG13	1.05	1.12
1:A:616:LYS:O	1:A:620:PRO:HD2	1.45	1.11
2:B:713:VAL:HG12	5:E:258:GLU:CG	1.74	1.11
2:B:1612:LEU:HD11	2:B:1637:CYS:SG	1.89	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2727:ILE:HD11	3:C:2745:LYS:HG2	1.22	1.11
4:D:517:ILE:CG1	4:D:550:TRP:CZ2	2.33	1.11
4:D:595:PHE:CD1	4:D:602:LEU:HD21	1.84	1.11
8:H:64:ASN:HB2	9:I:81:GLU:HB3	1.14	1.11
10:J:32:CYS:HB2	10:J:96:ILE:HG12	1.28	1.11
14:N:72:ILE:CG2	15:O:97:ILE:HG12	1.78	1.11
3:C:2666:CYS:HB2	3:C:2848:THR:HA	1.26	1.11
3:C:2709:ALA:CA	3:C:2758:MET:SD	2.37	1.11
4:D:111:MET:HE1	15:O:90:ILE:HG21	1.29	1.11
4:D:207:ALA:HB1	9:I:24:ILE:CD1	1.76	1.11
5:E:20:PHE:HA	14:N:90:ASP:OD1	1.51	1.11
6:F:56:TRP:NE1	6:F:91:GLN:OE1	1.81	1.11
12:L:77:ILE:CG1	13:M:65:ILE:HD11	1.80	1.11
1:A:944:LEU:HD11	1:A:1017:LEU:HD11	1.21	1.11
1:A:1132:LEU:O	1:A:1272:LEU:HD11	1.47	1.11
5:E:23:THR:CG2	14:N:88:TYR:CD1	2.32	1.11
8:H:65:PHE:HA	9:I:80:GLY:HA2	1.18	1.11
1:A:3257:VAL:CG1	1:A:3266:VAL:HA	1.80	1.11
1:A:3335:TRP:CZ3	1:A:3339:ILE:HD12	1.85	1.11
4:D:115:TYR:OH	14:N:78:HIS:NE2	1.82	1.11
10:J:34:ASP:CB	15:O:31:PRO:HG3	1.80	1.11
16:P:75:VAL:CB	16:P:89:LYS:CB	2.28	1.11
1:A:3223:LEU:HD11	1:A:3332:ILE:HG12	1.27	1.11
2:B:436:PHE:CE1	2:B:499:LEU:HD22	1.72	1.11
2:B:660:LEU:HB2	2:B:755:ILE:CD1	1.78	1.11
2:B:725:ILE:HD11	2:B:777:PHE:HA	1.11	1.11
2:B:1485:MET:CB	2:B:1505:ARG:CD	2.28	1.11
1:A:402:PRO:CB	1:A:467:ILE:O	1.97	1.10
1:A:688:PHE:CE1	1:A:693:MET:SD	2.43	1.10
1:A:761:LEU:HD21	1:A:874:HIS:CE1	1.85	1.10
2:B:1058:LYS:CD	2:B:1166:GLU:O	1.97	1.10
2:B:2543:GLY:HA2	19:B:5501:ADP:O2A	1.48	1.10
3:C:10:LEU:CD2	3:C:65:ASN:O	1.99	1.10
3:C:261:ILE:HG13	3:C:360:PRO:HB3	1.27	1.10
3:C:2018:GLN:HE21	19:C:4702:ADP:H2'	1.15	1.10
3:C:2719:VAL:HG13	3:C:2720:PRO:HD3	1.25	1.10
3:C:2792:TYR:C	3:C:2796:PRO:HG3	1.75	1.10
3:C:2793:LEU:C	3:C:2796:PRO:HD3	1.76	1.10
14:N:72:ILE:CG1	15:O:97:ILE:HD13	1.79	1.10
1:A:3249:ILE:CG1	1:A:3273:TYR:CA	2.27	1.10
1:A:3257:VAL:HG21	1:A:3266:VAL:HG12	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2585:PHE:CE1	3:C:2929:LEU:HA	1.85	1.10
3:C:2793:LEU:O	3:C:2796:PRO:HD2	0.95	1.10
9:I:78:ILE:HD11	9:I:106:LEU:CD2	1.80	1.10
12:L:16:LEU:HD12	12:L:17:PRO:CD	1.80	1.10
1:A:3298:ILE:C	1:A:3343:HIS:HE1	1.58	1.10
2:B:3314:ILE:HG12	2:B:3321:PHE:HE2	0.96	1.10
5:E:16:ASN:CG	15:O:132:GLU:HA	1.75	1.10
5:E:117:GLU:OE2	6:F:17:LEU:HD21	1.51	1.10
2:B:531:LEU:HD22	2:B:540:LEU:HD11	1.29	1.10
2:B:555:LEU:HD21	2:B:625:LEU:HD22	1.15	1.10
2:B:864:ASN:CB	2:B:947:LEU:HD23	1.67	1.10
2:B:1142:SER:O	2:B:1146:VAL:HG23	1.50	1.10
4:D:251:MET:HB2	7:G:136:MET:HE1	1.16	1.10
4:D:405:ASN:ND2	4:D:406:PRO:HD2	1.66	1.10
10:J:32:CYS:SG	10:J:96:ILE:HD11	1.91	1.10
10:J:48:LEU:HD11	10:J:100:ILE:HD11	1.32	1.10
12:L:74:TRP:NE1	12:L:109:LYS:HD2	1.65	1.10
14:N:85:ILE:HB	14:N:98:ILE:HD11	1.24	1.10
1:A:403:ALA:N	1:A:471:ASN:CB	2.15	1.10
1:A:659:TRP:HZ2	1:A:702:LEU:CD1	1.58	1.10
1:A:837:GLN:HE22	1:A:958:ALA:HB1	1.17	1.10
1:A:1020:PHE:CZ	1:A:1069:TYR:CZ	2.40	1.10
2:B:165:LEU:O	2:B:169:LYS:CB	1.99	1.10
2:B:436:PHE:CZ	2:B:499:LEU:HD22	1.84	1.10
2:B:762:ILE:HG22	2:B:766:ILE:HG13	1.24	1.10
2:B:957:GLN:CA	3:C:220:TRP:CH2	2.34	1.10
4:D:367:LEU:HD11	4:D:371:THR:OG1	1.36	1.10
6:F:50:ALA:CB	8:H:83:GLN:HG3	1.81	1.10
8:H:67:SER:CB	9:I:78:ILE:HG22	1.81	1.10
15:O:45:ARG:HB3	15:O:63:LEU:HD13	1.27	1.10
1:A:3290:LEU:CD2	1:A:3335:TRP:CH2	2.34	1.09
2:B:45:ASN:O	2:B:49:PHE:CB	2.00	1.09
2:B:409:SER:HB2	2:B:413:PHE:CG	1.85	1.09
3:C:205:ALA:HB2	3:C:216:ILE:HG22	1.32	1.09
3:C:2793:LEU:HA	3:C:2796:PRO:HG2	1.33	1.09
3:C:2800:PRO:HD2	3:C:2801:GLU:H	1.13	1.09
3:C:2803:MET:CG	3:C:2814:CYS:SG	2.40	1.09
4:D:543:MET:HE3	4:D:563:MET:HE2	1.12	1.09
6:F:91:GLN:CG	6:F:96:THR:CG2	2.21	1.09
10:J:74:PRO:HG3	12:L:102:ARG:HD3	1.11	1.09
10:J:77:HIS:ND1	11:K:70:VAL:HG21	1.59	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:909:MET:CE	1:A:955:ILE:HD11	1.81	1.09
1:A:1505:ASN:O	1:A:1509:ASP:CG	1.95	1.09
1:A:1638:THR:HB	1:A:1655:GLN:CG	1.83	1.09
2:B:899:LEU:HD12	2:B:900:PHE:N	1.66	1.09
4:D:265:ARG:CG	5:E:125:GLN:HG2	1.80	1.09
8:H:58:HIS:HD2	9:I:87:VAL:HG13	1.18	1.09
2:B:501:ARG:NH2	4:D:491:GLN:HG3	0.76	1.09
2:B:682:LYS:NZ	5:E:186:PHE:CE1	1.96	1.09
4:D:261:TYR:HE1	5:E:126:ILE:HD13	1.11	1.09
4:D:261:TYR:CE1	5:E:126:ILE:HD13	1.86	1.09
4:D:367:LEU:HG	4:D:371:THR:HG1	1.11	1.09
4:D:397:ASP:HB3	4:D:398:PRO:HD3	1.27	1.09
5:E:46:ASN:CG	12:L:88:PHE:CE1	2.30	1.09
5:E:82:GLY:HA2	8:H:12:LYS:HZ3	1.08	1.09
1:A:577:ALA:HB2	1:A:636:ARG:CD	1.82	1.09
1:A:601:PRO:CB	1:A:698:GLU:CG	2.31	1.09
1:A:601:PRO:CB	1:A:698:GLU:HG3	1.81	1.09
2:B:1511:VAL:CG2	2:B:1570:VAL:HG21	1.81	1.09
4:D:195:ILE:HG21	9:I:94:LEU:HD22	1.34	1.09
4:D:201:GLN:NE2	9:I:102:ASN:HB3	1.67	1.09
5:E:22:ASP:O	14:N:89:GLN:O	1.70	1.09
5:E:261:HIS:ND1	5:E:283:SER:OG	1.84	1.09
5:E:395:VAL:CG2	5:E:402:ILE:HD12	1.75	1.09
6:F:56:TRP:NE1	6:F:91:GLN:CD	2.03	1.09
10:J:19:LYS:HE3	15:O:19:LEU:HD13	1.18	1.09
1:A:1540:GLN:O	1:A:1544:ILE:HG13	1.50	1.09
2:B:1492:LYS:NZ	2:B:3606:GLN:OE1	1.85	1.09
4:D:265:ARG:HG2	5:E:125:GLN:HG2	1.14	1.09
6:F:50:ALA:HA	8:H:83:GLN:HG3	1.12	1.09
7:G:119:PRO:CD	9:I:12:ILE:CD1	2.29	1.09
14:N:85:ILE:CG2	14:N:98:ILE:HD12	1.82	1.09
15:O:22:LEU:HD12	15:O:23:ASN:CG	1.77	1.09
17:Q:39:GLU:O	17:Q:62:ILE:HA	1.51	1.09
1:A:3257:VAL:HG11	1:A:3266:VAL:HG13	1.27	1.08
2:B:3140:LEU:HB2	2:B:3433:TRP:CE3	1.88	1.08
2:B:3150:VAL:HG12	2:B:3423:VAL:HG23	1.13	1.08
3:C:2727:ILE:HD12	3:C:2745:LYS:HB3	1.30	1.08
5:E:259:ASN:ND2	5:E:299:GLY:CA	2.15	1.08
2:B:429:LEU:CG	2:B:489:PHE:CZ	2.36	1.08
2:B:1375:VAL:CA	2:B:1420:LEU:CB	2.31	1.08
2:B:1531:ILE:HD13	2:B:1595:LEU:HD11	1.32	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:111:MET:CE	15:O:90:ILE:CG2	2.30	1.08
15:O:22:LEU:CD1	15:O:23:ASN:CG	2.26	1.08
18:R:82:ALA:C	18:R:83:ASN:HA	1.72	1.08
2:B:429:LEU:CD1	2:B:489:PHE:CZ	2.36	1.08
2:B:900:PHE:CE1	2:B:933:TRP:HH2	1.71	1.08
2:B:1511:VAL:HA	2:B:1570:VAL:CB	1.84	1.08
3:C:159:TYR:CD1	3:C:179:VAL:HG22	1.87	1.08
4:D:170:THR:HG22	13:M:66:ILE:CB	1.82	1.08
1:A:804:ASN:HD21	5:E:148:LYS:HG2	0.95	1.08
2:B:655:LYS:HE3	2:B:708:TYR:OH	1.53	1.08
4:D:106:ILE:HD11	15:O:99:SER:OG	1.52	1.08
4:D:195:ILE:HD13	9:I:94:LEU:HD21	1.12	1.08
5:E:112:LEU:HD21	6:F:97:MET:HG2	1.10	1.08
10:J:19:LYS:HE3	15:O:19:LEU:CD1	1.84	1.08
1:A:634:ILE:HG21	1:A:638:TYR:OH	1.53	1.08
1:A:709:ILE:HG22	1:A:710:PRO:HD2	1.13	1.08
1:A:726:TYR:HE1	1:A:777:ILE:HG23	1.18	1.08
1:A:1513:LYS:HE2	1:A:1578:ASN:OD1	1.53	1.08
1:A:3251:ILE:HD13	17:Q:61:SER:CA	1.84	1.08
2:B:520:ARG:NH1	2:B:550:MET:HG3	1.67	1.08
2:B:789:LYS:HG2	2:B:839:LEU:HD11	1.18	1.08
2:B:1051:ASP:CB	2:B:1162:THR:HG21	1.83	1.08
2:B:1456:PHE:CZ	2:B:1563:VAL:HG13	1.74	1.08
2:B:1573:CYS:O	2:B:1577:ARG:HB3	1.54	1.08
4:D:207:ALA:HB3	9:I:24:ILE:CD1	1.81	1.08
4:D:351:MET:HE2	4:D:351:MET:HA	1.31	1.08
4:D:405:ASN:HD22	4:D:406:PRO:HD2	1.10	1.08
4:D:585:VAL:HG12	4:D:588:PRO:HD3	1.32	1.08
7:G:120:THR:CG2	9:I:12:ILE:CG2	2.30	1.08
8:H:46:LYS:HE3	9:I:86:ASP:HB3	1.30	1.08
1:A:3232:ILE:HD11	1:A:3316:TRP:HZ3	1.19	1.07
2:B:349:ASN:HA	2:B:416:LEU:CD2	1.84	1.07
2:B:954:ASP:CG	3:C:222:PHE:O	1.96	1.07
2:B:1511:VAL:HG13	2:B:1570:VAL:CG2	1.84	1.07
3:C:2743:ASN:HD22	3:C:2785:VAL:CG1	1.65	1.07
4:D:105:MET:SD	14:N:48:GLN:HA	1.93	1.07
4:D:170:THR:HG22	13:M:66:ILE:CG1	1.56	1.07
4:D:177:ASN:OD1	13:M:60:ASN:OD1	1.69	1.07
5:E:263:GLU:HB3	5:E:264:PRO:HD2	1.33	1.07
1:A:155:GLY:HA2	2:B:168:ILE:HA	1.18	1.07
1:A:1444:GLN:HG2	1:A:1560:LYS:HA	1.10	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2697:ARG:NH1	19:A:4701:ADP:O3B	1.86	1.07
1:A:3215:ILE:HG21	1:A:3219:ASP:OD2	1.53	1.07
2:B:679:ARG:HB2	5:E:186:PHE:HE2	1.18	1.07
2:B:794:LEU:CA	2:B:797:PHE:CE2	2.36	1.07
2:B:970:ALA:HB3	3:C:345:TRP:HZ3	0.96	1.07
2:B:1004:SER:OG	2:B:1094:TRP:CH2	2.08	1.07
2:B:1238:LYS:HE2	2:B:1308:LEU:HA	1.12	1.07
2:B:1450:TRP:O	2:B:1454:GLN:CG	2.02	1.07
2:B:1511:VAL:CG2	2:B:1570:VAL:CB	2.30	1.07
2:B:3262:LEU:O	2:B:3297:PHE:CZ	2.08	1.07
2:B:3264:ASN:ND2	2:B:3303:GLU:OE1	1.87	1.07
2:B:3314:ILE:HG12	2:B:3321:PHE:CE2	1.89	1.07
3:C:53:PRO:HG2	3:C:81:PRO:CB	1.84	1.07
4:D:109:PHE:CE2	15:O:121:TYR:CD2	2.42	1.07
4:D:148:GLU:HG2	4:D:149:PRO:HD2	1.09	1.07
12:L:16:LEU:CD1	12:L:17:PRO:HD2	1.84	1.07
14:N:25:PHE:HZ	14:N:103:ILE:HD13	0.96	1.07
1:A:1273:PHE:CA	4:D:166:PHE:HZ	1.50	1.07
1:A:3303:ILE:HD11	1:A:3340:TYR:HE2	0.91	1.07
2:B:518:TYR:HE1	5:E:407:TYR:CE2	1.71	1.07
2:B:864:ASN:HA	2:B:947:LEU:HG	1.12	1.07
3:C:2708:GLN:NE2	3:C:2809:ALA:O	1.86	1.07
3:C:2727:ILE:CD1	3:C:2745:LYS:CG	2.30	1.07
3:C:2792:TYR:O	3:C:2796:PRO:HG3	0.91	1.07
3:C:2803:MET:HG3	3:C:2814:CYS:SG	1.95	1.07
5:E:46:ASN:CB	12:L:88:PHE:CE1	2.37	1.07
12:L:77:ILE:HG12	13:M:65:ILE:HD11	1.37	1.07
1:A:3251:ILE:HD13	17:Q:61:SER:C	1.78	1.07
2:B:444:LEU:CD2	5:E:515:LYS:CE	2.31	1.07
4:D:517:ILE:HD13	4:D:527:ILE:HG23	1.33	1.07
6:F:62:VAL:HG21	7:G:106:LEU:HD11	1.22	1.07
1:A:1126:VAL:HG21	1:A:1135:VAL:HG23	1.31	1.07
1:A:1274:GLY:HA3	4:D:164:ASN:HB3	1.09	1.07
1:A:1522:GLU:HG3	1:A:1523:PRO:HD3	1.07	1.07
1:A:3121:LEU:CD2	1:A:3429:TRP:HB2	1.84	1.07
2:B:545:ILE:HD11	2:B:616:ARG:HH11	1.19	1.07
2:B:3150:VAL:CG1	2:B:3423:VAL:CG2	2.33	1.07
3:C:10:LEU:CD2	3:C:65:ASN:C	2.27	1.07
4:D:170:THR:HG23	13:M:66:ILE:HG12	1.29	1.07
5:E:16:ASN:HB2	15:O:132:GLU:HA	1.26	1.07
16:P:16:GLU:HA	16:P:74:LEU:CB	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:601:PRO:HB2	1:A:698:GLU:CG	1.85	1.06
1:A:730:LEU:HD21	1:A:781:LEU:HD21	1.37	1.06
1:A:997:LYS:CD	18:R:149:LEU:CA	2.15	1.06
1:A:1101:HIS:HA	1:A:1163:LEU:CD1	1.85	1.06
1:A:1132:LEU:HB3	1:A:1272:LEU:HD12	1.12	1.06
1:A:1422:SER:CB	1:A:1486:HIS:CE1	2.37	1.06
1:A:1633:ALA:O	1:A:1838:PHE:CE2	2.06	1.06
1:A:3106:LYS:CG	1:A:3443:LEU:HD11	1.84	1.06
1:A:3121:LEU:HD23	1:A:3429:TRP:CB	1.71	1.06
1:A:3257:VAL:HG11	1:A:3266:VAL:CA	1.83	1.06
2:B:345:ARG:CB	2:B:412:LEU:HD11	1.85	1.06
2:B:429:LEU:HD11	2:B:489:PHE:CD2	1.90	1.06
2:B:444:LEU:CD2	5:E:515:LYS:NZ	2.18	1.06
3:C:2701:ILE:CD1	3:C:2704:LYS:HE3	1.83	1.06
3:C:2701:ILE:HD11	3:C:2704:LYS:CG	1.85	1.06
3:C:2720:PRO:HB3	3:C:2798:PHE:HE2	1.17	1.06
3:C:2734:PHE:HE2	3:C:2767:LYS:CD	1.66	1.06
4:D:285:PRO:HG3	4:D:584:ILE:HG22	1.35	1.06
5:E:70:ASP:OD2	9:I:64:LYS:CE	2.03	1.06
6:F:56:TRP:CG	6:F:91:GLN:NE2	2.22	1.06
1:A:613:LEU:HD21	4:D:523:TRP:HH2	1.09	1.06
1:A:804:ASN:ND2	5:E:148:LYS:HB3	1.71	1.06
2:B:409:SER:O	2:B:413:PHE:HB2	1.52	1.06
2:B:511:PHE:HE2	2:B:547:LEU:CD2	1.68	1.06
2:B:741:ILE:HD13	2:B:776:LEU:HD11	1.38	1.06
2:B:1238:LYS:HE3	2:B:1308:LEU:CB	1.85	1.06
2:B:1511:VAL:HG22	2:B:1570:VAL:CG2	1.84	1.06
3:C:2721:GLU:OE1	3:C:2814:CYS:HA	1.54	1.06
3:C:2723:PHE:HE1	3:C:2749:VAL:HG12	1.12	1.06
7:G:120:THR:HG22	9:I:12:ILE:HG23	1.09	1.06
1:A:853:VAL:HB	5:E:206:ASN:CG	1.79	1.06
2:B:10:PRO:CB	2:B:25:GLN:CB	2.32	1.06
2:B:533:ARG:HG2	2:B:534:PRO:HD3	1.34	1.06
2:B:861:ASP:CG	3:C:170:GLN:CB	2.23	1.06
2:B:3118:TYR:HB2	2:B:3455:SER:CB	1.84	1.06
4:D:80:PRO:HD2	15:O:103:TRP:CZ2	1.90	1.06
4:D:91:TYR:CZ	13:M:80:LEU:HD12	1.89	1.06
4:D:297:LYS:NZ	4:D:328:LEU:CB	2.17	1.06
12:L:73:GLU:HB3	13:M:66:ILE:HD12	1.31	1.06
1:A:1396:PRO:CA	1:A:1400:TYR:CB	2.33	1.06
2:B:970:ALA:HB1	3:C:345:TRP:CZ3	1.90	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:90:ASP:OD2	13:M:32:LYS:CG	2.02	1.06
4:D:111:MET:HB3	15:O:95:LEU:H	1.20	1.06
4:D:148:GLU:HG2	4:D:149:PRO:CD	1.85	1.06
7:G:119:PRO:CD	9:I:12:ILE:HD12	1.86	1.06
1:A:403:ALA:H	1:A:471:ASN:CB	1.67	1.06
1:A:598:ARG:HH12	4:D:546:VAL:CG1	1.67	1.06
1:A:801:ILE:HB	1:A:862:LEU:HD21	1.34	1.06
1:A:1012:LYS:HB2	1:A:1071:ILE:HD13	1.07	1.06
1:A:1445:PHE:CD2	1:A:1564:CYS:SG	2.48	1.06
1:A:3215:ILE:CG2	1:A:3219:ASP:OD2	2.04	1.06
2:B:1238:LYS:HE3	2:B:1308:LEU:HA	1.08	1.06
2:B:1607:PRO:CG	2:B:1946:SER:CB	2.33	1.06
3:C:2719:VAL:CG1	3:C:2720:PRO:HD3	1.86	1.06
4:D:567:GLN:OE1	4:D:578:LYS:HD3	1.56	1.06
8:H:46:LYS:CE	9:I:86:ASP:CB	2.34	1.06
1:A:601:PRO:CG	1:A:698:GLU:CG	2.24	1.05
1:A:817:VAL:O	1:A:818:LEU:HD13	0.89	1.05
1:A:1452:LYS:HA	1:A:1458:MET:N	1.68	1.05
5:E:82:GLY:HA2	8:H:12:LYS:NZ	1.69	1.05
8:H:46:LYS:HE2	9:I:86:ASP:CB	1.84	1.05
11:K:77:PHE:CE1	11:K:88:LEU:HD11	1.91	1.05
1:A:804:ASN:ND2	5:E:148:LYS:CB	2.18	1.05
1:A:971:ASN:HA	1:A:985:PHE:HE2	0.91	1.05
1:A:3386:ASN:O	1:A:3390:VAL:HG23	1.55	1.05
2:B:1242:GLN:O	2:B:1252:MET:N	1.88	1.05
3:C:354:VAL:HG11	3:C:357:ILE:CD1	1.87	1.05
4:D:201:GLN:CD	9:I:102:ASN:HB3	1.80	1.05
4:D:517:ILE:HD11	4:D:527:ILE:HG23	1.32	1.05
16:P:10:THR:HA	16:P:65:ASP:CB	1.86	1.05
1:A:3222:GLU:HB3	1:A:3328:ALA:HB2	1.37	1.05
2:B:436:PHE:CE1	2:B:499:LEU:HD23	1.86	1.05
2:B:1566:ASN:CG	3:C:2275:LYS:HD3	1.80	1.05
3:C:2803:MET:HB2	3:C:2814:CYS:SG	1.90	1.05
4:D:414:PHE:CD2	4:D:426:TRP:CD1	2.44	1.05
4:D:517:ILE:HD12	4:D:527:ILE:HG12	1.33	1.05
4:D:528:TRP:NE1	4:D:535:GLN:HB3	1.72	1.05
4:D:590:LEU:HD23	4:D:604:VAL:CG1	1.86	1.05
5:E:61:VAL:HG23	10:J:106:LEU:HD22	1.34	1.05
5:E:239:LEU:HD21	5:E:257:VAL:HG22	1.11	1.05
14:N:72:ILE:HG23	15:O:97:ILE:HG12	1.13	1.05
1:A:659:TRP:HZ2	1:A:702:LEU:HD11	0.93	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:688:PHE:HE1	1:A:693:MET:SD	1.78	1.05
1:A:1114:GLN:O	1:A:1118:LEU:HD22	1.57	1.05
1:A:3306:LEU:O	1:A:3306:LEU:CD1	2.04	1.05
2:B:1106:PHE:CZ	2:B:1160:ILE:HD11	1.92	1.05
2:B:1511:VAL:HA	2:B:1570:VAL:HG22	1.30	1.05
3:C:2746:PRO:HD2	3:C:2747:LYS:H	1.19	1.05
4:D:395:HIS:NE2	4:D:399:VAL:HG11	1.61	1.05
5:E:20:PHE:CE1	14:N:89:GLN:HA	1.91	1.05
5:E:164:VAL:CG2	5:E:181:TYR:HE1	1.66	1.05
7:G:120:THR:HG23	9:I:12:ILE:CG2	1.87	1.05
8:H:58:HIS:CD2	9:I:87:VAL:HG13	1.92	1.05
9:I:26:ASN:CB	9:I:98:PHE:CE2	2.40	1.05
10:J:21:PHE:CZ	10:J:37:LEU:CD2	2.40	1.05
10:J:77:HIS:ND1	11:K:70:VAL:HG22	1.70	1.05
1:A:1422:SER:CB	1:A:1486:HIS:NE2	2.20	1.05
1:A:1505:ASN:O	1:A:1509:ASP:OD2	1.74	1.05
2:B:511:PHE:HE2	2:B:547:LEU:HD21	1.15	1.05
2:B:1492:LYS:HE3	2:B:3606:GLN:NE2	1.72	1.05
4:D:526:ARG:HB2	4:D:528:TRP:CH2	1.92	1.05
5:E:112:LEU:CD2	6:F:97:MET:SD	2.45	1.05
1:A:601:PRO:HG2	1:A:698:GLU:HG3	1.09	1.04
1:A:688:PHE:CE1	1:A:693:MET:CG	2.40	1.04
1:A:1067:PRO:CD	1:A:1067:PRO:N	2.19	1.04
1:A:1513:LYS:CD	1:A:1578:ASN:ND2	2.15	1.04
1:A:3249:ILE:HG12	1:A:3273:TYR:HA	1.36	1.04
2:B:581:ASN:ND2	5:E:184:MET:HE3	1.72	1.04
2:B:946:ARG:CA	2:B:955:PHE:HE2	1.68	1.04
3:C:2606:GLY:C	3:C:2910:TRP:HZ3	1.64	1.04
3:C:2725:ALA:O	3:C:2729:LEU:HG	1.57	1.04
3:C:2726:THR:CB	3:C:2729:LEU:HD12	1.86	1.04
4:D:195:ILE:HD13	9:I:94:LEU:CD2	1.86	1.04
4:D:297:LYS:HE3	4:D:316:LEU:CD2	1.86	1.04
5:E:282:THR:HG23	5:E:322:LEU:HD12	1.38	1.04
5:E:395:VAL:HG21	5:E:402:ILE:HD11	1.06	1.04
8:H:68:PHE:HB2	9:I:60:CYS:HB3	1.39	1.04
1:A:617:ILE:HD12	1:A:647:GLN:HE22	1.16	1.04
1:A:760:ASP:OD2	1:A:764:ARG:CG	2.05	1.04
1:A:1518:TRP:NE1	1:A:1545:ASP:OD1	1.89	1.04
1:A:3229:PRO:HB2	1:A:3233:ILE:CG2	1.87	1.04
1:A:3308:PRO:HB3	17:Q:33:PHE:CB	1.86	1.04
2:B:673:PHE:CE1	2:B:677:LEU:HD13	1.93	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:789:LYS:HE3	2:B:839:LEU:CD2	1.87	1.04
2:B:1511:VAL:CA	2:B:1570:VAL:CG1	2.35	1.04
2:B:1511:VAL:CG2	2:B:1570:VAL:CG2	2.35	1.04
8:H:66:GLY:N	9:I:79:ILE:O	1.90	1.04
9:I:51:ALA:HB1	9:I:52:PRO:CD	1.87	1.04
15:O:30:TYR:OH	15:O:126:VAL:HG12	1.53	1.04
1:A:655:PHE:CE2	1:A:659:TRP:NE1	2.25	1.04
2:B:436:PHE:HD2	2:B:463:PHE:CE1	1.73	1.04
2:B:501:ARG:CZ	4:D:491:GLN:CG	2.19	1.04
2:B:794:LEU:O	2:B:797:PHE:CD2	2.11	1.04
2:B:1051:ASP:HB3	2:B:1162:THR:HG21	1.38	1.04
4:D:91:TYR:CE2	13:M:80:LEU:CB	2.38	1.04
4:D:195:ILE:HG21	9:I:94:LEU:CD2	1.88	1.04
10:J:21:PHE:HZ	10:J:37:LEU:CD2	1.69	1.04
1:A:3446:ASN:OD1	1:A:3488:LEU:HD22	1.55	1.04
2:B:52:PHE:C	2:B:53:ILE:N	2.15	1.04
2:B:598:ARG:HB2	5:E:367:LEU:HD13	1.33	1.04
2:B:801:ILE:CD1	2:B:937:PHE:CE1	2.23	1.04
2:B:861:ASP:OD2	3:C:170:GLN:HB3	0.89	1.04
4:D:106:ILE:HG13	15:O:99:SER:O	1.56	1.04
4:D:172:GLU:HA	13:M:64:HIS:HA	1.31	1.04
10:J:34:ASP:HB2	15:O:31:PRO:CG	1.88	1.04
1:A:804:ASN:ND2	5:E:148:LYS:HG2	1.72	1.04
1:A:1052:LEU:HB3	1:A:1166:TYR:CE2	1.93	1.04
1:A:1121:LYS:HB3	1:A:1138:THR:HG21	1.05	1.04
1:A:3249:ILE:HG13	1:A:3273:TYR:HA	1.07	1.04
2:B:533:ARG:CB	2:B:534:PRO:HD2	1.86	1.04
2:B:718:ILE:HD11	2:B:773:VAL:CB	1.88	1.04
2:B:1559:MET:CG	2:B:1577:ARG:HH22	1.71	1.04
2:B:3118:TYR:HB2	2:B:3455:SER:HB2	1.39	1.04
4:D:297:LYS:HE3	4:D:316:LEU:HD23	1.07	1.04
5:E:46:ASN:HB3	12:L:88:PHE:CE1	1.93	1.04
14:N:89:GLN:HG2	14:N:94:ASP:HB2	1.38	1.04
1:A:597:VAL:HB	1:A:600:MET:HG3	1.39	1.03
2:B:444:LEU:CA	5:E:515:LYS:HG2	1.84	1.03
2:B:528:GLU:CD	5:E:526:GLN:HE21	1.66	1.03
2:B:641:ILE:O	2:B:645:GLU:HG3	1.58	1.03
3:C:2742:LYS:CE	3:C:2785:VAL:HG21	1.88	1.03
4:D:248:MET:HE1	7:G:147:VAL:HB	1.36	1.03
5:E:310:LEU:HD21	5:E:358:ARG:NH2	1.72	1.03
16:P:11:THR:O	16:P:67:LEU:HA	1.55	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1445:PHE:CD2	1:A:1564:CYS:HB3	1.88	1.03
1:A:3106:LYS:CG	1:A:3443:LEU:CD1	2.37	1.03
2:B:436:PHE:CD2	2:B:463:PHE:CD1	2.47	1.03
2:B:882:LEU:O	2:B:886:ILE:HG22	1.56	1.03
2:B:1447:ILE:HG22	2:B:1504:TRP:NE1	1.55	1.03
7:G:119:PRO:HD2	9:I:12:ILE:HD13	1.34	1.03
7:G:119:PRO:HG2	9:I:12:ILE:HG21	1.06	1.03
10:J:26:VAL:HG22	10:J:97:TYR:O	1.50	1.03
1:A:1143:ARG:CZ	4:D:169:ASN:ND2	2.21	1.03
2:B:444:LEU:HD23	5:E:515:LYS:HE2	1.26	1.03
2:B:1607:PRO:CB	2:B:1946:SER:OG	2.06	1.03
2:B:1607:PRO:HB3	2:B:1946:SER:OG	1.57	1.03
2:B:3164:VAL:CG1	2:B:3409:ALA:HB2	1.89	1.03
3:C:354:VAL:CG1	3:C:357:ILE:HD12	1.88	1.03
4:D:170:THR:HG22	13:M:66:ILE:HG12	1.12	1.03
4:D:528:TRP:CD1	4:D:535:GLN:CA	2.41	1.03
5:E:46:ASN:ND2	12:L:25:ASP:OD2	1.90	1.03
12:L:74:TRP:CE2	12:L:109:LYS:HD2	1.92	1.03
14:N:72:ILE:HG21	15:O:97:ILE:HD11	1.04	1.03
16:P:39:TRP:C	16:P:40:SER:N	2.17	1.03
1:A:3298:ILE:C	1:A:3343:HIS:CE1	2.33	1.03
1:A:3449:LEU:HD23	1:A:3488:LEU:HD23	1.39	1.03
2:B:165:LEU:O	2:B:169:LYS:N	1.91	1.03
2:B:500:GLU:OE1	2:B:535:ILE:HD12	0.85	1.03
2:B:789:LYS:HB3	2:B:839:LEU:HD13	1.40	1.03
3:C:205:ALA:CB	3:C:216:ILE:HG22	1.88	1.03
3:C:261:ILE:HG13	3:C:360:PRO:CB	1.89	1.03
4:D:80:PRO:CG	15:O:103:TRP:HE1	1.71	1.03
10:J:26:VAL:HG23	10:J:97:TYR:O	1.58	1.03
1:A:801:ILE:CG2	1:A:862:LEU:CD2	2.31	1.03
1:A:804:ASN:HD21	5:E:148:LYS:CG	1.70	1.03
1:A:1126:VAL:CA	1:A:1131:SER:OG	2.06	1.03
2:B:87:LYS:O	2:B:103:ASN:CA	2.07	1.03
2:B:1002:GLN:HA	2:B:1094:TRP:CZ2	1.94	1.03
3:C:2745:LYS:CG	3:C:2749:VAL:HG21	1.87	1.03
5:E:48:ILE:HG12	12:L:88:PHE:HZ	1.19	1.03
6:F:50:ALA:HA	8:H:83:GLN:CG	1.88	1.03
17:Q:68:LEU:O	17:Q:92:ASP:CB	2.06	1.03
1:A:1445:PHE:HD2	1:A:1564:CYS:SG	1.79	1.02
2:B:801:ILE:CD1	2:B:937:PHE:CD1	2.42	1.02
2:B:897:SER:HB2	2:B:898:PRO:HD2	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1127:ASN:HB3	2:B:1128:PRO:HD3	1.38	1.02
2:B:3153:LEU:HD12	2:B:3707:LEU:HD11	1.04	1.02
3:C:24:HIS:NE2	3:C:325:SER:OG	1.66	1.02
4:D:170:THR:HG22	13:M:66:ILE:HA	1.39	1.02
4:D:177:ASN:ND2	13:M:60:ASN:CB	1.77	1.02
7:G:58:SER:O	7:G:62:ASP:N	1.90	1.02
12:L:73:GLU:CB	13:M:66:ILE:HD12	1.87	1.02
1:A:709:ILE:CG2	1:A:710:PRO:HD2	1.89	1.02
2:B:533:ARG:CB	2:B:534:PRO:CD	2.37	1.02
2:B:1123:GLY:HA2	2:B:1197:PHE:CE1	1.94	1.02
2:B:1607:PRO:HG2	2:B:1946:SER:CB	1.90	1.02
3:C:2673:VAL:CB	3:C:2841:THR:HA	1.89	1.02
3:C:2735:ASN:HB3	3:C:2757:LEU:HA	1.40	1.02
4:D:518:SER:OG	4:D:528:TRP:CZ3	2.11	1.02
4:D:584:ILE:HG21	4:D:614:VAL:CG2	1.88	1.02
5:E:16:ASN:HB3	15:O:132:GLU:CG	1.81	1.02
5:E:492:ASP:CA	5:E:495:TYR:CE2	2.42	1.02
6:F:56:TRP:CE2	6:F:91:GLN:NE2	2.23	1.02
8:H:46:LYS:CE	9:I:86:ASP:HB3	1.88	1.02
1:A:1126:VAL:O	1:A:1208:TYR:OH	1.75	1.02
1:A:3099:TYR:HA	1:A:3451:THR:HG21	1.41	1.02
2:B:444:LEU:HD11	2:B:527:PHE:HE1	0.87	1.02
2:B:829:VAL:HG11	2:B:940:ILE:HG23	1.38	1.02
2:B:1437:GLU:HG2	2:B:1493:TYR:CB	1.89	1.02
2:B:1559:MET:HE2	2:B:1577:ARG:HH21	1.21	1.02
3:C:2721:GLU:OE2	3:C:2798:PHE:HE1	1.41	1.02
4:D:174:GLN:CB	13:M:62:GLY:CA	2.36	1.02
4:D:528:TRP:CD1	4:D:535:GLN:HA	1.93	1.02
8:H:12:LYS:HG2	8:H:80:TYR:CD2	1.95	1.02
1:A:1513:LYS:HD3	1:A:1578:ASN:ND2	1.72	1.02
2:B:679:ARG:CB	5:E:186:PHE:CE2	2.41	1.02
2:B:1531:ILE:HG21	2:B:1595:LEU:HD11	1.42	1.02
15:O:45:ARG:CB	15:O:63:LEU:HD13	1.89	1.02
1:A:580:LEU:HD22	1:A:640:SER:HB3	1.02	1.02
1:A:590:GLN:HB2	1:A:609:TRP:CZ2	1.94	1.02
2:B:349:ASN:CA	2:B:416:LEU:CD2	2.37	1.02
2:B:736:LEU:HD12	2:B:859:TYR:CB	1.90	1.02
2:B:1511:VAL:N	2:B:1570:VAL:HG11	1.74	1.02
3:C:60:LEU:CD2	3:C:69:TRP:CH2	2.42	1.02
4:D:172:GLU:HA	13:M:64:HIS:CB	1.86	1.02
4:D:173:CYS:O	13:M:63:SER:N	1.91	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:251:MET:HB3	7:G:136:MET:HE3	1.41	1.02
5:E:22:ASP:HB3	14:N:91:THR:HG23	1.05	1.02
5:E:394:TRP:CD1	5:E:401:PRO:CA	2.42	1.02
5:E:492:ASP:HA	5:E:495:TYR:CZ	1.93	1.02
1:A:95:PHE:O	1:A:124:THR:N	1.93	1.01
1:A:804:ASN:ND2	5:E:148:LYS:CG	2.23	1.01
1:A:1444:GLN:HB3	1:A:1559:LYS:O	1.60	1.01
2:B:533:ARG:HB3	2:B:534:PRO:HD2	1.01	1.01
2:B:582:MET:HE2	2:B:587:GLY:N	1.74	1.01
2:B:946:ARG:HA	2:B:955:PHE:CZ	1.95	1.01
2:B:1559:MET:HE2	2:B:1577:ARG:HD3	1.42	1.01
2:B:2666:ARG:CD	20:B:5601:ATP:O1G	2.08	1.01
3:C:2669:ILE:HD12	3:C:2847:ALA:HB1	1.42	1.01
4:D:105:MET:CE	14:N:48:GLN:HA	1.88	1.01
4:D:173:CYS:N	13:M:63:SER:O	1.92	1.01
8:H:76:TYR:HE1	8:H:87:LEU:HD11	1.21	1.01
9:I:78:ILE:HD12	9:I:106:LEU:HB3	1.41	1.01
1:A:670:LEU:HB2	1:A:692:ILE:CD1	1.89	1.01
1:A:1012:LYS:HB3	1:A:1071:ILE:HG21	1.35	1.01
1:A:1396:PRO:HA	1:A:1400:TYR:CB	1.90	1.01
1:A:1504:VAL:HG22	1:A:1565:CYS:SG	2.00	1.01
1:A:3446:ASN:CG	1:A:3488:LEU:CD1	2.33	1.01
2:B:883:ASN:HA	2:B:886:ILE:CG2	1.90	1.01
3:C:2585:PHE:HB2	3:C:2932:SER:CB	1.90	1.01
3:C:2723:PHE:CE1	3:C:2749:VAL:HG12	1.87	1.01
4:D:175:THR:N	13:M:61:PHE:O	1.92	1.01
5:E:35:VAL:O	14:N:78:HIS:ND1	1.92	1.01
5:E:70:ASP:CG	9:I:64:LYS:CE	2.33	1.01
1:A:580:LEU:HD21	1:A:640:SER:HB3	1.31	1.01
1:A:970:TYR:O	1:A:983:ALA:CB	2.09	1.01
1:A:1121:LYS:CB	1:A:1138:THR:HG21	1.89	1.01
1:A:3273:TYR:OH	1:A:3277:GLY:HA3	1.13	1.01
2:B:444:LEU:CD1	2:B:527:PHE:HE1	1.74	1.01
2:B:3264:ASN:HB2	2:B:3306:ILE:HD11	1.10	1.01
3:C:165:GLY:C	3:C:174:PHE:CZ	2.37	1.01
3:C:2792:TYR:O	3:C:2796:PRO:CD	2.08	1.01
4:D:567:GLN:HB3	4:D:578:LYS:HD2	1.38	1.01
5:E:23:THR:HG21	14:N:88:TYR:HD1	1.24	1.01
5:E:119:CYS:CB	6:F:88:ILE:HD13	1.91	1.01
10:J:86:CYS:HB2	11:K:61:VAL:HG13	1.38	1.01
1:A:38:LYS:HA	1:A:44:PHE:CB	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:853:VAL:CG1	5:E:206:ASN:CG	2.34	1.01
1:A:2164:SER:OG	20:A:4801:ATP:O1B	1.77	1.01
1:A:3251:ILE:CD1	17:Q:61:SER:HA	1.72	1.01
2:B:3264:ASN:CB	2:B:3306:ILE:CD1	2.24	1.01
2:B:3342:ASN:O	2:B:3346:PHE:CB	2.08	1.01
3:C:2740:ILE:CB	3:C:2744:LYS:HB3	1.88	1.01
7:G:58:SER:C	7:G:59:GLU:N	2.19	1.01
14:N:70:THR:HG22	15:O:99:SER:CB	1.89	1.01
1:A:891:PHE:HE1	1:A:972:TRP:CE3	1.44	1.01
1:A:1121:LYS:HB3	1:A:1138:THR:CG2	1.91	1.01
1:A:3106:LYS:HG2	1:A:3443:LEU:CG	1.90	1.01
1:A:3121:LEU:HD23	1:A:3429:TRP:HB3	1.31	1.01
2:B:409:SER:CB	2:B:413:PHE:HD1	1.45	1.01
2:B:429:LEU:HD11	2:B:489:PHE:CE2	1.92	1.01
2:B:744:MET:HG3	2:B:776:LEU:HD22	1.43	1.01
6:F:35:ARG:CZ	6:F:41:SER:HB2	1.89	1.01
8:H:54:HIS:NE2	18:R:62:LYS:HA	1.75	1.01
8:H:76:TYR:CE1	8:H:87:LEU:HD11	1.96	1.01
1:A:747:ILE:CD1	1:A:889:TYR:CE1	2.44	1.00
1:A:853:VAL:CB	5:E:206:ASN:HD21	1.64	1.00
1:A:3110:LEU:HD11	1:A:3443:LEU:HD22	1.43	1.00
2:B:443:GLU:CD	5:E:514:ARG:NH1	2.18	1.00
2:B:1223:LYS:HZ1	2:B:1277:ARG:CB	1.64	1.00
2:B:3230:ALA:HB3	2:B:3342:ASN:CG	1.77	1.00
3:C:2690:LEU:CB	3:C:2826:VAL:HG11	1.90	1.00
1:A:598:ARG:HH22	4:D:546:VAL:HG11	1.25	1.00
1:A:617:ILE:HD12	1:A:647:GLN:NE2	1.77	1.00
1:A:3298:ILE:CA	1:A:3343:HIS:HE1	1.74	1.00
2:B:87:LYS:O	2:B:103:ASN:HA	1.59	1.00
2:B:1447:ILE:HG22	2:B:1504:TRP:CZ2	1.95	1.00
10:J:61:ALA:CB	10:J:80:PHE:HE2	1.63	1.00
12:L:84:CYS:CB	13:M:56:ILE:HG12	1.92	1.00
1:A:688:PHE:CE1	1:A:693:MET:HG2	1.95	1.00
1:A:971:ASN:CA	1:A:985:PHE:HE2	1.75	1.00
1:A:1051:GLN:OE1	1:A:1096:TYR:CE1	2.14	1.00
1:A:3194:ALA:HB1	1:A:3356:VAL:CG2	1.91	1.00
1:A:3235:TYR:HE2	1:A:3269:LEU:HD11	1.19	1.00
2:B:725:ILE:HG21	2:B:776:LEU:HG	1.42	1.00
2:B:946:ARG:N	2:B:955:PHE:HE2	1.59	1.00
2:B:1511:VAL:CG2	2:B:1570:VAL:HB	1.89	1.00
2:B:3078:ILE:HD12	2:B:3452:LEU:HD22	1.37	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3261:ILE:CG2	2:B:3306:ILE:HG23	1.89	1.00
3:C:2740:ILE:HG13	3:C:2744:LYS:HB3	1.05	1.00
3:C:2798:PHE:CD1	3:C:2803:MET:SD	2.55	1.00
10:J:38:GLU:CD	15:O:29:PHE:CZ	2.38	1.00
1:A:726:TYR:CE1	1:A:777:ILE:HG23	1.95	1.00
1:A:1051:GLN:OE1	1:A:1096:TYR:OH	1.79	1.00
2:B:518:TYR:CE1	5:E:407:TYR:HE2	1.77	1.00
2:B:1456:PHE:HZ	2:B:1563:VAL:CG1	1.48	1.00
2:B:3234:LEU:HD13	2:B:3336:LEU:HD23	1.43	1.00
4:D:75:LEU:HD23	4:D:75:LEU:H	1.24	1.00
5:E:16:ASN:HB2	15:O:132:GLU:C	1.85	1.00
1:A:21:LEU:O	1:A:25:ASP:CA	2.09	1.00
1:A:867:MET:SD	1:A:878:VAL:HG11	2.01	1.00
1:A:3249:ILE:CD1	1:A:3273:TYR:HA	1.92	1.00
2:B:897:SER:CB	2:B:898:PRO:CD	2.40	1.00
4:D:569:TYR:CE2	4:D:578:LYS:CG	2.42	1.00
1:A:634:ILE:CG2	1:A:638:TYR:OH	2.07	1.00
1:A:1031:ILE:HG23	1:A:1034:SER:OG	1.60	1.00
1:A:1638:THR:HB	1:A:1655:GLN:HG3	1.42	1.00
1:A:3223:LEU:HD11	1:A:3332:ILE:CG1	1.55	1.00
1:A:3306:LEU:CD1	1:A:3310:LEU:HG	1.91	1.00
4:D:68:GLU:HG3	5:E:12:LYS:HA	1.40	1.00
5:E:70:ASP:CG	9:I:64:LYS:HE2	1.87	1.00
2:B:433:ILE:HG23	2:B:463:PHE:HZ	0.92	1.00
3:C:159:TYR:CD1	3:C:179:VAL:CG2	2.44	1.00
3:C:2585:PHE:CD1	3:C:2929:LEU:HA	1.96	1.00
4:D:620:LEU:HD12	4:D:620:LEU:O	1.61	1.00
1:A:1274:GLY:CA	4:D:164:ASN:HB3	1.92	0.99
2:B:3446:SER:CB	2:B:3489:THR:CG2	2.17	0.99
3:C:2734:PHE:HE2	3:C:2767:LYS:HG3	1.11	0.99
5:E:14:PHE:HZ	15:O:22:LEU:O	1.43	0.99
1:A:155:GLY:HA2	2:B:168:ILE:CA	1.89	0.99
2:B:660:LEU:CG	2:B:755:ILE:HD13	1.92	0.99
2:B:946:ARG:CA	2:B:955:PHE:CE2	2.43	0.99
2:B:973:THR:OG1	3:C:344:ASN:CB	2.10	0.99
4:D:184:GLY:CA	11:K:69:TYR:HD1	1.75	0.99
5:E:310:LEU:HG	5:E:358:ARG:CZ	1.93	0.99
1:A:1136:MET:HE2	1:A:1136:MET:HA	1.40	0.99
6:F:14:LEU:HD23	6:F:23:TYR:HD2	1.19	0.99
7:G:120:THR:HG23	9:I:12:ILE:HG23	1.36	0.99
1:A:747:ILE:HD11	1:A:889:TYR:CE1	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3300:GLU:OE2	2:B:3354:LYS:CD	2.10	0.99
3:C:2745:LYS:CE	3:C:2749:VAL:HG21	1.91	0.99
4:D:174:GLN:NE2	12:L:51:LYS:H	1.59	0.99
17:Q:69:ASN:CA	17:Q:92:ASP:CB	2.40	0.99
1:A:972:TRP:HZ3	1:A:985:PHE:CE1	1.79	0.99
2:B:3118:TYR:CD2	2:B:3452:LEU:HA	1.97	0.99
3:C:2793:LEU:C	3:C:2796:PRO:HD2	1.80	0.99
5:E:14:PHE:CZ	15:O:22:LEU:O	2.16	0.99
1:A:937:LEU:HD13	1:A:1081:ILE:HG12	1.42	0.99
1:A:3121:LEU:HD21	1:A:3429:TRP:CA	1.91	0.99
14:N:86:THR:OG1	15:O:83:VAL:HG13	1.60	0.99
2:B:679:ARG:HB2	5:E:186:PHE:CE2	1.98	0.99
3:C:143:PRO:HD3	3:C:187:TRP:NE1	1.77	0.99
3:C:2740:ILE:CG2	3:C:2744:LYS:CB	2.11	0.99
4:D:113:GLY:HA3	15:O:92:GLY:O	1.62	0.99
4:D:569:TYR:OH	4:D:578:LYS:CD	2.10	0.99
3:C:354:VAL:HG21	3:C:357:ILE:HG13	1.41	0.99
5:E:59:HIS:HD2	10:J:90:HIS:CE1	1.81	0.99
9:I:51:ALA:HB1	9:I:52:PRO:HD3	1.43	0.99
2:B:59:THR:O	2:B:82:ASP:N	1.93	0.99
2:B:532:THR:HG22	2:B:536:ILE:CG1	1.93	0.99
3:C:180:LEU:HD12	3:C:180:LEU:O	1.63	0.99
5:E:80:TRP:HE3	5:E:81:PRO:HD2	1.27	0.99
8:H:51:SER:O	18:R:63:ASN:CA	2.03	0.99
1:A:616:LYS:O	1:A:620:PRO:CD	2.10	0.99
1:A:1273:PHE:C	4:D:166:PHE:CZ	2.40	0.99
4:D:242:LYS:HG2	7:G:60:VAL:CG2	1.91	0.99
4:D:571:LEU:HD13	4:D:647:TYR:CE2	1.97	0.99
5:E:446:ILE:HD12	5:E:446:ILE:H	1.23	0.99
8:H:89:PHE:CE2	9:I:76:GLN:OE1	2.16	0.99
1:A:577:ALA:HB2	1:A:636:ARG:HD3	0.99	0.98
1:A:3124:ILE:HD12	1:A:3429:TRP:CD1	1.98	0.98
2:B:713:VAL:HG11	5:E:258:GLU:HG3	1.02	0.98
2:B:1511:VAL:HG22	2:B:1570:VAL:HB	1.02	0.98
2:B:1607:PRO:HG2	2:B:1946:SER:HB3	1.01	0.98
2:B:3445:LYS:HB3	2:B:3487:PRO:HB3	1.45	0.98
3:C:2723:PHE:HE1	3:C:2749:VAL:CG1	1.69	0.98
4:D:174:GLN:CA	13:M:62:GLY:CA	2.28	0.98
8:H:89:PHE:HE2	9:I:76:GLN:OE1	1.45	0.98
1:A:870:PRO:C	1:A:871:LEU:HD13	1.88	0.98
1:A:3042:PHE:CZ	1:A:3100:LYS:HE2	1.98	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3232:ILE:HD11	1:A:3316:TRP:CZ3	1.90	0.98
2:B:598:ARG:HB2	5:E:367:LEU:CD1	1.93	0.98
1:A:598:ARG:HH22	4:D:546:VAL:CG1	1.74	0.98
1:A:1140:GLU:OE2	4:D:165:LYS:CE	2.11	0.98
4:D:105:MET:SD	14:N:48:GLN:CA	2.51	0.98
1:A:1114:GLN:O	1:A:1118:LEU:HD23	1.58	0.98
2:B:595:LEU:HD23	5:E:389:TRP:CZ2	1.98	0.98
4:D:529:ASP:OD2	4:D:532:TYR:CD2	2.16	0.98
18:R:82:ALA:CA	18:R:83:ASN:N	2.27	0.98
1:A:670:LEU:HB2	1:A:692:ILE:HD11	1.00	0.98
2:B:555:LEU:HD21	2:B:625:LEU:CD2	1.69	0.98
3:C:2018:GLN:NE2	19:C:4702:ADP:H2'	1.77	0.98
3:C:2725:ALA:HA	3:C:2728:TYR:HE2	1.23	0.98
4:D:70:MET:HE2	5:E:13:GLU:CG	1.93	0.98
16:P:57:ILE:CB	16:P:64:ILE:O	2.12	0.98
1:A:686:VAL:CG2	1:A:731:LEU:CD2	2.34	0.98
2:B:436:PHE:CD2	2:B:463:PHE:CE1	2.52	0.98
3:C:2734:PHE:CE2	3:C:2767:LYS:HD2	1.95	0.98
5:E:61:VAL:HG22	10:J:106:LEU:HD22	1.20	0.98
2:B:724:HIS:CD2	2:B:728:CYS:SG	2.57	0.98
3:C:2669:ILE:HD12	3:C:2847:ALA:HB3	1.44	0.98
3:C:2673:VAL:C	3:C:2841:THR:HG22	1.87	0.98
3:C:2694:ALA:CB	3:C:2823:TYR:CB	2.42	0.98
4:D:174:GLN:HB3	12:L:51:LYS:HB2	1.44	0.98
5:E:61:VAL:HG21	10:J:106:LEU:HD13	1.44	0.98
7:G:111:ARG:O	7:G:114:VAL:HG12	1.63	0.98
10:J:36:ILE:HG12	10:J:72:PHE:HE1	1.11	0.98
14:N:84:GLN:HG3	15:O:61:GLU:HA	1.42	0.98
1:A:760:ASP:OD2	1:A:764:ARG:HG2	1.61	0.98
2:B:532:THR:H	2:B:536:ILE:HD12	1.26	0.98
2:B:957:GLN:HA	3:C:220:TRP:HH2	1.01	0.98
2:B:1507:LYS:HD3	2:B:1571:GLU:OE1	1.64	0.98
1:A:1029:GLU:HA	1:A:1088:TRP:CZ2	1.98	0.98
3:C:165:GLY:CA	3:C:174:PHE:HE2	1.76	0.98
4:D:107:VAL:HA	15:O:98:ALA:HA	1.45	0.98
5:E:61:VAL:CG1	10:J:95:PHE:HZ	1.77	0.98
14:N:84:GLN:NE2	15:O:61:GLU:HB2	1.78	0.98
2:B:575:ASN:CA	5:E:481:GLN:HE22	1.76	0.98
2:B:798:ASN:CB	2:B:874:ALA:CB	2.31	0.98
4:D:114:ASP:OD1	5:E:43:ARG:NH1	1.97	0.98
4:D:262:HIS:HA	5:E:125:GLN:HE22	1.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1468:ALA:O	2:B:1469:SER:OG	1.82	0.97
3:C:2720:PRO:C	3:C:2798:PHE:CZ	2.42	0.97
3:C:2725:ALA:HA	3:C:2728:TYR:CE2	1.98	0.97
4:D:517:ILE:CD1	4:D:527:ILE:CG2	2.41	0.97
6:F:74:ILE:HD12	6:F:77:ILE:HD11	1.44	0.97
11:K:77:PHE:CD1	11:K:90:TYR:HB3	1.98	0.97
1:A:550:HIS:CB	4:D:654:ASN:OD1	2.12	0.97
3:C:2613:THR:HG21	3:C:3176:LEU:HD22	1.46	0.97
6:F:14:LEU:HD21	6:F:23:TYR:HB3	1.00	0.97
9:I:81:GLU:CD	9:I:102:ASN:HB2	1.90	0.97
10:J:38:GLU:OE2	15:O:29:PHE:CE2	2.15	0.97
10:J:48:LEU:HD11	10:J:100:ILE:CD1	1.91	0.97
1:A:686:VAL:HG21	1:A:731:LEU:HD23	1.00	0.97
1:A:1513:LYS:HD3	1:A:1578:ASN:HD21	1.22	0.97
1:A:1522:GLU:CG	1:A:1523:PRO:HD3	1.94	0.97
6:F:14:LEU:CD2	6:F:23:TYR:CD2	2.47	0.97
1:A:40:LEU:CA	1:A:41:LEU:N	2.27	0.97
1:A:1013:VAL:HG13	1:A:1076:LEU:CD1	1.93	0.97
2:B:725:ILE:CD1	2:B:777:PHE:HA	1.93	0.97
2:B:1511:VAL:CA	2:B:1570:VAL:HG11	1.93	0.97
2:B:3300:GLU:OE2	2:B:3354:LYS:HD2	1.64	0.97
3:C:2734:PHE:HZ	3:C:2767:LYS:HD2	1.21	0.97
4:D:89:TYR:CD2	11:K:56:PRO:HG3	1.98	0.97
5:E:420:THR:HG21	5:E:472:SER:O	1.63	0.97
6:F:11:LEU:HD22	6:F:23:TYR:CD1	1.99	0.97
8:H:65:PHE:HA	9:I:80:GLY:HA3	1.41	0.97
9:I:78:ILE:HD11	9:I:106:LEU:HD23	1.00	0.97
14:N:85:ILE:HG22	14:N:98:ILE:HD12	1.46	0.97
1:A:590:GLN:CB	1:A:609:TRP:CZ2	2.47	0.97
1:A:3335:TRP:CH2	1:A:3339:ILE:HD11	1.99	0.97
2:B:409:SER:HA	2:B:413:PHE:HD1	1.25	0.97
2:B:2304:GLU:OE1	20:B:5601:ATP:O3G	1.82	0.97
6:F:35:ARG:NE	6:F:41:SER:HB2	1.79	0.97
1:A:1633:ALA:HB2	1:A:1839:LEU:O	1.58	0.97
2:B:1234:GLU:HB2	2:B:1308:LEU:CB	1.94	0.97
2:B:1456:PHE:CE1	2:B:1467:PHE:CE1	2.53	0.97
2:B:1456:PHE:CD2	2:B:1569:VAL:CG1	2.48	0.97
1:A:14:LYS:C	2:B:19:SER:O	2.08	0.97
1:A:155:GLY:HA3	2:B:168:ILE:N	1.79	0.97
1:A:891:PHE:CD1	1:A:972:TRP:CZ3	2.51	0.97
2:B:3150:VAL:HG12	2:B:3423:VAL:HG22	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:236:MET:CB	7:G:143:PHE:HE2	1.69	0.97
9:I:78:ILE:CD1	9:I:106:LEU:HD23	1.94	0.97
2:B:673:PHE:CZ	2:B:677:LEU:HB3	2.00	0.97
2:B:3118:TYR:CD2	2:B:3455:SER:OG	2.18	0.97
3:C:2711:SER:HB3	3:C:2751:TRP:CH2	1.99	0.97
3:C:2727:ILE:CD1	3:C:2745:LYS:HB3	1.94	0.97
4:D:360:ALA:CB	5:E:133:PHE:HZ	1.77	0.97
1:A:15:THR:HA	2:B:19:SER:HA	1.43	0.97
1:A:871:LEU:HD23	1:A:875:VAL:HG13	1.46	0.97
1:A:3443:LEU:HD12	1:A:3493:PHE:HZ	0.82	0.97
3:C:10:LEU:HD21	3:C:65:ASN:C	1.88	0.97
4:D:297:LYS:HZ3	4:D:328:LEU:CB	1.77	0.97
1:A:971:ASN:HB3	1:A:983:ALA:HA	1.45	0.96
1:A:1433:LEU:CD1	1:A:1490:PHE:CD1	2.47	0.96
2:B:445:GLY:HA2	5:E:511:ARG:CZ	1.93	0.96
2:B:798:ASN:HB3	2:B:874:ALA:HB1	0.99	0.96
1:A:121:GLY:H	2:B:106:LYS:HA	1.27	0.96
1:A:3212:VAL:CG2	1:A:3338:ALA:HB3	1.95	0.96
1:A:3335:TRP:CZ3	1:A:3339:ILE:CD1	2.47	0.96
2:B:511:PHE:CE2	2:B:547:LEU:HD21	1.99	0.96
2:B:1058:LYS:CG	2:B:1166:GLU:CB	2.21	0.96
2:B:1456:PHE:HE1	2:B:1458:PHE:CZ	1.82	0.96
2:B:3153:LEU:HD13	2:B:3707:LEU:HD12	1.42	0.96
2:B:3261:ILE:O	2:B:3306:ILE:CG2	2.13	0.96
3:C:136:ALA:CB	3:C:168:ASN:OD1	2.13	0.96
4:D:208:TYR:CE1	9:I:100:ASN:HB2	1.99	0.96
1:A:156:VAL:N	2:B:167:GLN:O	1.99	0.96
2:B:1317:LEU:CA	16:P:61:GLU:HA	1.95	0.96
3:C:2927:ASP:CG	3:C:2974:ILE:HD13	1.89	0.96
14:N:72:ILE:HD13	15:O:97:ILE:CD1	1.94	0.96
1:A:1536:LEU:H	1:A:1536:LEU:HD12	1.27	0.96
2:B:736:LEU:HA	2:B:855:SER:HB2	1.47	0.96
2:B:794:LEU:CA	2:B:797:PHE:CD2	2.48	0.96
2:B:1174:HIS:O	2:B:1178:ILE:HG13	1.64	0.96
3:C:132:GLU:CD	3:C:133:PRO:CD	2.38	0.96
3:C:2740:ILE:HG13	3:C:2744:LYS:CB	1.96	0.96
4:D:105:MET:CE	14:N:47:THR:C	2.38	0.96
10:J:19:LYS:HB2	10:J:28:TRP:HB2	1.43	0.96
1:A:614:PHE:CD1	1:A:644:LEU:CD2	2.47	0.96
1:A:909:MET:HE1	1:A:955:ILE:HD11	1.46	0.96
2:B:3164:VAL:HG11	2:B:3409:ALA:HB2	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:212:ILE:HD11	9:I:19:MET:CE	1.93	0.96
10:J:75:TYR:CD1	11:K:92:LYS:NZ	2.34	0.96
3:C:2772:LYS:NZ	3:C:2776:ASP:OD2	1.98	0.96
4:D:111:MET:HE1	15:O:90:ILE:HB	1.45	0.96
14:N:89:GLN:CG	14:N:94:ASP:HB2	1.95	0.96
1:A:155:GLY:C	2:B:167:GLN:O	2.09	0.96
2:B:1458:PHE:CD1	2:B:1560:MET:HE3	1.99	0.96
2:B:3234:LEU:CD1	2:B:3336:LEU:HD23	1.95	0.96
3:C:132:GLU:OE1	3:C:133:PRO:HD2	1.63	0.96
1:A:2496:GLY:HA2	19:A:4701:ADP:O3B	1.64	0.96
2:B:579:PHE:CZ	5:E:369:PRO:HG2	2.01	0.96
2:B:679:ARG:CB	5:E:186:PHE:HE2	1.75	0.96
2:B:1559:MET:HG3	2:B:1577:ARG:HH22	1.28	0.96
2:B:3140:LEU:CB	2:B:3433:TRP:HE3	1.72	0.96
4:D:512:HIS:CD2	4:D:513:PRO:CD	2.49	0.96
4:D:563:MET:O	4:D:564:ASP:OD1	1.82	0.96
5:E:395:VAL:HG23	5:E:402:ILE:HD12	1.32	0.96
6:F:56:TRP:CE3	6:F:74:ILE:HD11	2.00	0.96
1:A:807:GLU:CG	1:A:811:LYS:HE3	1.94	0.96
1:A:1012:LYS:CD	1:A:1071:ILE:HD12	1.94	0.96
1:A:1012:LYS:HZ3	1:A:1072:GLY:N	1.53	0.96
2:B:729:LEU:HD23	2:B:734:GLU:HG2	1.46	0.96
2:B:1127:ASN:CB	2:B:1128:PRO:CD	2.43	0.96
3:C:36:PHE:HB3	3:C:57:VAL:HG22	1.48	0.96
3:C:2018:GLN:HE21	19:C:4702:ADP:C2'	1.78	0.96
3:C:2711:SER:O	3:C:2751:TRP:HZ2	1.48	0.96
5:E:310:LEU:HD11	5:E:358:ARG:NH2	1.78	0.96
2:B:1102:LEU:H	2:B:1163:ARG:HH22	1.13	0.96
10:J:74:PRO:CG	12:L:102:ARG:HD3	1.93	0.96
1:A:21:LEU:O	1:A:25:ASP:N	1.99	0.95
1:A:737:TYR:HE1	1:A:759:LEU:HD23	0.94	0.95
1:A:872:ASP:OD1	1:A:873:PRO:HD2	1.64	0.95
1:A:1020:PHE:HA	1:A:1023:PHE:HE2	1.25	0.95
1:A:1028:LYS:O	1:A:1088:TRP:HH2	1.46	0.95
1:A:3106:LYS:HG3	1:A:3443:LEU:HD21	1.06	0.95
1:A:3229:PRO:HB2	1:A:3233:ILE:HG21	1.46	0.95
1:A:3335:TRP:CH2	1:A:3339:ILE:CD1	2.49	0.95
2:B:897:SER:HB3	2:B:898:PRO:CD	1.95	0.95
3:C:2581:LEU:CD1	3:C:2936:SER:OG	2.13	0.95
4:D:552:PRO:CD	4:D:595:PHE:HD2	1.64	0.95
1:A:8:LYS:CB	1:A:109:SER:CA	2.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:533:ARG:CG	2:B:534:PRO:HD3	1.96	0.95
2:B:444:LEU:CD2	2:B:526:ASN:ND2	2.23	0.95
4:D:115:TYR:CZ	14:N:78:HIS:CD2	2.54	0.95
4:D:398:PRO:HD2	4:D:419:SER:HB2	0.97	0.95
1:A:15:THR:CA	2:B:19:SER:HA	1.96	0.95
1:A:972:TRP:HZ3	1:A:985:PHE:CZ	1.60	0.95
1:A:1143:ARG:CD	4:D:169:ASN:HD21	1.79	0.95
1:A:3106:LYS:HG2	1:A:3443:LEU:HD11	0.98	0.95
2:B:5:SER:CB	2:B:47:ASP:CB	2.44	0.95
2:B:794:LEU:CA	2:B:797:PHE:HE2	1.78	0.95
2:B:957:GLN:CD	3:C:164:HIS:CE1	2.43	0.95
2:B:3314:ILE:CG1	2:B:3321:PHE:HE2	1.79	0.95
1:A:1101:HIS:HA	1:A:1163:LEU:HD11	1.48	0.95
1:A:3290:LEU:HD22	1:A:3335:TRP:HZ2	1.29	0.95
2:B:582:MET:HE1	2:B:587:GLY:HA2	0.97	0.95
2:B:713:VAL:HG12	5:E:258:GLU:HG3	0.96	0.95
2:B:3136:TYR:O	2:B:3433:TRP:CZ3	2.19	0.95
4:D:177:ASN:CG	13:M:60:ASN:HB2	1.91	0.95
4:D:199:ILE:HG21	9:I:104:ALA:CB	1.96	0.95
8:H:51:SER:OG	18:R:63:ASN:O	1.84	0.95
3:C:159:TYR:HD1	3:C:179:VAL:CG2	1.80	0.95
4:D:567:GLN:CB	4:D:578:LYS:HD2	1.95	0.95
4:D:569:TYR:HH	4:D:578:LYS:HD3	1.18	0.95
5:E:56:LEU:HA	10:J:91:ASN:HA	1.47	0.95
6:F:84:SER:HB3	6:F:106:ALA:HB2	1.47	0.95
8:H:65:PHE:CB	9:I:80:GLY:HA3	1.96	0.95
14:N:84:GLN:HB2	15:O:64:VAL:HG21	1.46	0.95
2:B:433:ILE:HA	2:B:463:PHE:CZ	2.02	0.95
4:D:517:ILE:HD11	4:D:527:ILE:CG2	1.97	0.95
12:L:77:ILE:HG23	13:M:63:SER:HB3	1.48	0.95
1:A:935:VAL:HG21	1:A:1017:LEU:HD21	1.45	0.95
1:A:1632:ASP:CB	1:A:1892:PHE:CD1	2.50	0.95
1:A:3230:LEU:O	1:A:3233:ILE:CG2	2.15	0.95
1:A:3249:ILE:HG13	1:A:3273:TYR:CA	1.90	0.95
10:J:25:ARG:O	10:J:99:TYR:N	1.99	0.95
1:A:3106:LYS:HG3	1:A:3443:LEU:HD22	1.45	0.95
4:D:212:ILE:HD11	9:I:19:MET:HE3	1.45	0.95
4:D:590:LEU:HD23	4:D:604:VAL:HG11	1.48	0.95
5:E:384:LEU:HG	5:E:417:TRP:NE1	1.81	0.95
1:A:1069:TYR:CD1	1:A:1078:THR:HG21	2.02	0.95
1:A:3251:ILE:HD11	17:Q:83:VAL:N	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:555:LEU:HD23	2:B:625:LEU:CG	1.97	0.95
2:B:891:ILE:HD11	2:B:897:SER:O	1.66	0.95
2:B:1208:LYS:HA	2:B:1208:LYS:HE3	1.45	0.95
4:D:421:GLY:HA3	4:D:441:LEU:HD12	1.45	0.95
5:E:48:ILE:HG12	12:L:88:PHE:CZ	2.02	0.95
1:A:3236:ILE:CG2	1:A:3333:LEU:HD23	1.87	0.94
2:B:897:SER:CB	2:B:898:PRO:HD2	1.95	0.94
3:C:2734:PHE:CZ	3:C:2767:LYS:CD	2.47	0.94
4:D:261:TYR:CE1	5:E:126:ILE:CD1	2.49	0.94
5:E:46:ASN:CG	12:L:88:PHE:HE1	1.71	0.94
5:E:100:GLU:HB3	5:E:105:PHE:HD2	0.84	0.94
6:F:56:TRP:CG	6:F:91:GLN:HE22	1.77	0.94
8:H:43:THR:CA	9:I:86:ASP:OD2	2.15	0.94
2:B:789:LYS:HE3	2:B:839:LEU:HD22	1.45	0.94
2:B:935:ASN:HB3	3:C:283:THR:CG2	1.97	0.94
2:B:1456:PHE:CE2	2:B:1569:VAL:CG1	2.50	0.94
4:D:111:MET:CE	15:O:90:ILE:HG21	1.93	0.94
2:B:581:ASN:ND2	5:E:184:MET:CE	2.28	0.94
2:B:682:LYS:HE2	5:E:186:PHE:CE1	2.00	0.94
2:B:2191:THR:OG1	20:B:5601:ATP:O1A	1.84	0.94
4:D:297:LYS:HZ2	4:D:328:LEU:HB2	1.24	0.94
8:H:64:ASN:O	9:I:81:GLU:N	2.00	0.94
12:L:86:LEU:HD12	13:M:54:ASN:HB3	1.49	0.94
1:A:688:PHE:HE1	1:A:693:MET:HG2	1.28	0.94
1:A:1030:SER:C	1:A:1092:TRP:HH2	1.76	0.94
2:B:871:ILE:CD1	2:B:944:ILE:HD11	1.98	0.94
2:B:3210:SER:HB2	2:B:3364:ASN:OD1	1.67	0.94
2:B:419:PHE:HB2	2:B:480:ILE:HD12	1.49	0.94
5:E:50:LEU:HD13	12:L:95:PHE:CB	1.96	0.94
1:A:913:VAL:HG11	1:A:1005:SER:HB2	1.47	0.94
4:D:90:ASP:OD1	13:M:32:LYS:CA	2.15	0.94
4:D:172:GLU:CD	12:L:55:LEU:HD12	1.92	0.94
12:L:9:GLY:O	12:L:13:GLU:HG3	1.67	0.94
4:D:567:GLN:OE1	4:D:578:LYS:CD	2.15	0.94
1:A:3236:ILE:HG23	1:A:3333:LEU:HA	1.50	0.94
2:B:409:SER:HB3	2:B:413:PHE:CE1	2.03	0.94
3:C:2742:LYS:HE3	3:C:2785:VAL:HG21	1.50	0.94
4:D:564:ASP:CG	4:D:583:LYS:HE2	1.92	0.94
5:E:164:VAL:HG22	5:E:181:TYR:HE1	1.24	0.94
6:F:11:LEU:HD22	6:F:23:TYR:HE1	1.18	0.94
7:G:118:ASP:OD1	9:I:12:ILE:HD13	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:LEU:O	1:A:102:ALA:HB3	1.65	0.94
2:B:528:GLU:OE1	5:E:526:GLN:NE2	2.01	0.94
2:B:575:ASN:H	5:E:481:GLN:HE22	1.15	0.94
2:B:583:PRO:HB3	2:B:683:GLU:HG2	1.49	0.94
2:B:1467:PHE:HE2	2:B:1560:MET:SD	1.81	0.94
2:B:1559:MET:CG	2:B:1577:ARG:NH2	2.29	0.94
5:E:394:TRP:CE2	5:E:401:PRO:HB3	2.03	0.94
8:H:65:PHE:CA	9:I:80:GLY:HA3	1.98	0.94
1:A:2500:THR:HG1	21:A:5002:MG:MG	0.64	0.94
2:B:436:PHE:HE1	2:B:499:LEU:HD23	1.23	0.94
2:B:1531:ILE:CD1	2:B:1595:LEU:HD11	1.96	0.94
3:C:2592:LYS:HD2	3:C:2928:VAL:CG2	1.97	0.94
10:J:38:GLU:OE1	15:O:29:PHE:CG	2.21	0.94
1:A:970:TYR:HA	1:A:983:ALA:O	1.68	0.93
1:A:1020:PHE:HZ	1:A:1069:TYR:CD1	1.86	0.93
1:A:1525:PHE:HB2	1:A:1541:PHE:CE2	2.03	0.93
1:A:3121:LEU:CG	1:A:3429:TRP:HB3	1.97	0.93
4:D:184:GLY:CA	11:K:69:TYR:CD1	2.51	0.93
5:E:22:ASP:CB	14:N:91:THR:HG23	1.95	0.93
5:E:310:LEU:CD1	5:E:358:ARG:CZ	2.46	0.93
8:H:56:THR:HG23	9:I:88:THR:OG1	1.67	0.93
1:A:1069:TYR:CE1	1:A:1078:THR:HG21	2.02	0.93
3:C:53:PRO:HG2	3:C:81:PRO:HB2	1.47	0.93
6:F:14:LEU:HD23	6:F:23:TYR:CB	1.90	0.93
1:A:960:THR:HG21	18:R:117:VAL:CB	1.99	0.93
1:A:3261:LYS:HG2	1:A:3262:GLU:H	1.33	0.93
1:A:3442:LYS:HB3	1:A:3485:THR:CG2	1.97	0.93
3:C:2701:ILE:CG1	3:C:2704:LYS:HD2	1.98	0.93
3:C:2740:ILE:HB	3:C:2744:LYS:O	1.68	0.93
9:I:77:CYS:HB2	9:I:107:ILE:HG22	1.50	0.93
1:A:505:THR:O	1:A:509:LYS:CB	2.16	0.93
1:A:913:VAL:C	1:A:1073:ALA:CB	2.42	0.93
1:A:1012:LYS:CB	1:A:1071:ILE:HD13	1.98	0.93
1:A:1500:THR:HG23	1:A:1566:GLN:HE22	1.31	0.93
1:A:3222:GLU:CB	1:A:3328:ALA:HB2	1.98	0.93
1:A:3297:SER:O	1:A:3343:HIS:ND1	2.01	0.93
2:B:1531:ILE:CD1	2:B:1618:LEU:HD22	1.98	0.93
1:A:755:HIS:HE1	1:A:869:TYR:CD2	1.68	0.93
1:A:1525:PHE:CB	1:A:1541:PHE:CD2	2.21	0.93
1:A:3236:ILE:HG23	1:A:3333:LEU:CD2	1.96	0.93
2:B:789:LYS:CG	2:B:839:LEU:HD11	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1458:PHE:HB3	2:B:1465:LYS:HB3	1.50	0.93
2:B:3231:VAL:HG23	2:B:3342:ASN:HB3	1.50	0.93
3:C:2740:ILE:HD12	3:C:2744:LYS:HD3	1.50	0.93
4:D:91:TYR:HE2	13:M:80:LEU:HB2	1.17	0.93
4:D:172:GLU:CA	13:M:64:HIS:HB2	1.97	0.93
4:D:367:LEU:CG	4:D:371:THR:HG1	1.68	0.93
5:E:99:ILE:HD11	6:F:31:ILE:HD11	1.49	0.93
8:H:64:ASN:CB	9:I:81:GLU:HB3	1.98	0.93
1:A:1444:GLN:HE21	1:A:1560:LYS:HG2	1.33	0.93
3:C:2673:VAL:CA	3:C:2841:THR:HG22	1.98	0.93
9:I:81:GLU:OE2	9:I:102:ASN:HB2	1.66	0.93
10:J:95:PHE:CE2	10:J:106:LEU:HD11	2.02	0.93
1:A:596:LEU:CD2	1:A:602:PRO:HA	1.99	0.93
1:A:766:GLY:HA3	1:A:780:TYR:CE1	2.03	0.93
2:B:900:PHE:CE1	2:B:933:TRP:CH2	2.56	0.93
2:B:1456:PHE:CE1	2:B:1467:PHE:HE1	1.85	0.93
3:C:136:ALA:HB1	3:C:168:ASN:OD1	1.69	0.93
5:E:26:ARG:NH2	14:N:96:SER:O	2.00	0.93
3:C:143:PRO:CD	3:C:187:TRP:CD1	2.52	0.93
3:C:2592:LYS:HB3	3:C:2924:MET:SD	2.08	0.93
5:E:99:ILE:CG2	6:F:33:LEU:HD11	1.98	0.93
5:E:259:ASN:HD21	5:E:299:GLY:HA3	1.27	0.93
9:I:81:GLU:OE1	9:I:102:ASN:ND2	2.00	0.93
13:M:7:VAL:HG12	13:M:75:PHE:HB3	1.50	0.93
17:Q:43:GLY:CA	17:Q:67:SER:CB	2.45	0.93
1:A:1444:GLN:CG	1:A:1560:LYS:HA	1.99	0.93
1:A:3269:LEU:HD21	1:A:3312:GLN:OE1	1.69	0.93
3:C:2589:LEU:HB2	3:C:2928:VAL:HG11	1.50	0.93
4:D:207:ALA:C	9:I:24:ILE:HD12	1.94	0.93
4:D:543:MET:SD	4:D:563:MET:HG3	2.09	0.93
5:E:100:GLU:HB3	5:E:105:PHE:CE2	2.04	0.93
6:F:81:THR:HG21	7:G:114:VAL:HG21	1.30	0.93
1:A:3257:VAL:CG1	1:A:3266:VAL:CG1	2.26	0.93
3:C:2581:LEU:HD12	3:C:2936:SER:OG	1.69	0.93
3:C:2581:LEU:HD12	3:C:2936:SER:CB	1.98	0.93
1:A:3293:PHE:HE1	1:A:3335:TRP:CZ2	1.87	0.92
2:B:59:THR:O	2:B:81:ILE:HA	1.69	0.92
2:B:637:GLU:O	2:B:641:ILE:HG22	1.67	0.92
7:G:119:PRO:CG	9:I:12:ILE:HG21	1.97	0.92
1:A:737:TYR:CE1	1:A:759:LEU:CD2	2.51	0.92
1:A:1487:VAL:CG2	1:A:1490:PHE:CE1	2.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1474:MET:HE2	2:B:1515:VAL:CG1	1.99	0.92
3:C:2585:PHE:HE1	3:C:2929:LEU:CA	1.82	0.92
3:C:2673:VAL:O	3:C:2841:THR:CG2	2.18	0.92
5:E:43:ARG:O	12:L:90:ALA:HB2	1.70	0.92
2:B:3118:TYR:HD2	2:B:3455:SER:HG	0.93	0.92
3:C:2585:PHE:CE1	3:C:2929:LEU:CA	2.52	0.92
8:H:67:SER:CA	9:I:78:ILE:HG22	1.99	0.92
10:J:26:VAL:CG2	10:J:98:PHE:HB3	1.98	0.92
10:J:26:VAL:HG23	10:J:98:PHE:CA	2.00	0.92
16:P:23:TYR:HA	16:P:31:ILE:CB	1.98	0.92
1:A:5:LYS:CB	1:A:48:GLU:CB	2.46	0.92
1:A:1126:VAL:HB	1:A:1201:TYR:HH	1.23	0.92
2:B:10:PRO:C	2:B:25:GLN:HA	1.93	0.92
2:B:575:ASN:N	5:E:481:GLN:NE2	2.17	0.92
3:C:222:PHE:O	3:C:282:ARG:NH1	2.01	0.92
4:D:212:ILE:HD13	9:I:19:MET:CE	1.90	0.92
6:F:81:THR:HG22	7:G:114:VAL:HG21	1.51	0.92
8:H:66:GLY:HA2	9:I:56:ILE:HG21	1.51	0.92
1:A:598:ARG:HH12	4:D:546:VAL:HG12	1.32	0.92
2:B:1528:LEU:HD21	2:B:1591:CYS:CB	2.00	0.92
3:C:2723:PHE:CZ	3:C:2749:VAL:CG1	2.53	0.92
3:C:2739:GLU:H	3:C:2746:PRO:HB3	1.33	0.92
5:E:61:VAL:HG13	10:J:95:PHE:CZ	2.04	0.92
5:E:22:ASP:HB3	14:N:91:THR:CG2	1.99	0.92
1:A:1458:MET:HE1	1:A:1548:TRP:CD1	2.04	0.92
2:B:1456:PHE:HE1	2:B:1563:VAL:HG12	1.20	0.92
2:B:2333:PRO:HB2	20:B:5601:ATP:C2	2.05	0.92
4:D:174:GLN:HE21	12:L:51:LYS:H	1.04	0.92
5:E:61:VAL:HG13	10:J:95:PHE:HZ	1.32	0.92
16:P:15:SER:C	16:P:16:GLU:CA	2.42	0.92
2:B:3301:ASN:HD22	2:B:3351:LYS:HZ3	1.06	0.92
4:D:172:GLU:OE1	12:L:55:LEU:CD1	2.16	0.92
18:R:105:THR:O	18:R:107:SER:N	2.02	0.92
1:A:755:HIS:HE1	1:A:869:TYR:HD2	1.02	0.92
1:A:872:ASP:O	1:A:875:VAL:HG12	1.68	0.92
1:A:3117:PHE:CD2	1:A:3429:TRP:CZ3	2.57	0.92
2:B:1004:SER:HG	2:B:1094:TRP:HH2	0.95	0.92
2:B:2333:PRO:HB2	20:B:5601:ATP:C6	2.04	0.92
10:J:32:CYS:CB	10:J:96:ILE:CG1	2.47	0.92
10:J:48:LEU:CD1	10:J:100:ILE:HD12	1.97	0.92
14:N:25:PHE:HZ	14:N:103:ILE:CD1	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1511:TRP:HA	1:A:1574:LEU:HD13	1.52	0.92
2:B:1559:MET:HE2	2:B:1577:ARG:NH2	1.85	0.92
2:B:3228:GLU:HG3	2:B:3346:PHE:HE1	0.77	0.92
4:D:360:ALA:HB3	5:E:133:PHE:HZ	1.19	0.92
1:A:1143:ARG:CZ	4:D:169:ASN:HD21	1.83	0.91
1:A:1445:PHE:HD2	1:A:1564:CYS:HG	1.09	0.91
2:B:861:ASP:HA	2:B:864:ASN:ND2	1.84	0.91
4:D:207:ALA:HB3	9:I:24:ILE:HD13	1.50	0.91
4:D:241:PHE:HZ	7:G:78:ILE:HD12	1.32	0.91
8:H:57:TRP:HZ3	8:H:88:LEU:HD13	1.35	0.91
1:A:600:MET:CE	1:A:697:ARG:NH1	2.33	0.91
2:B:532:THR:N	2:B:536:ILE:HD12	1.85	0.91
1:A:723:PHE:HD1	1:A:772:TRP:CZ2	1.88	0.91
2:B:861:ASP:O	2:B:864:ASN:OD1	1.86	0.91
2:B:970:ALA:HA	3:C:343:ASN:O	1.70	0.91
4:D:266:TYR:HH	5:E:121:TYR:HB3	1.26	0.91
5:E:48:ILE:H	12:L:88:PHE:HE2	1.15	0.91
7:G:120:THR:HG22	9:I:12:ILE:CG2	1.97	0.91
2:B:59:THR:CB	2:B:82:ASP:O	2.19	0.91
3:C:2774:VAL:HG12	3:C:2780:VAL:CG2	2.00	0.91
5:E:48:ILE:HG21	12:L:23:PHE:CD2	2.05	0.91
1:A:670:LEU:CA	1:A:692:ILE:HD11	2.00	0.91
1:A:1027:CYS:SG	1:A:1027:CYS:O	2.29	0.91
1:A:3110:LEU:HD11	1:A:3443:LEU:CD2	2.01	0.91
1:A:3317:PHE:HD1	1:A:3333:LEU:HD22	1.34	0.91
2:B:789:LYS:HG2	2:B:839:LEU:CD1	2.00	0.91
4:D:248:MET:CE	7:G:147:VAL:HB	2.01	0.91
14:N:66:LYS:HB2	14:N:115:MET:HB2	1.52	0.91
2:B:436:PHE:HE1	2:B:499:LEU:CD2	1.57	0.91
2:B:518:TYR:HE1	5:E:407:TYR:HE2	0.93	0.91
3:C:214:LEU:CD1	3:C:232:TYR:O	2.19	0.91
14:N:70:THR:HG22	15:O:99:SER:HB2	1.50	0.91
1:A:670:LEU:CB	1:A:692:ILE:CD1	2.49	0.91
2:B:736:LEU:O	2:B:855:SER:OG	1.89	0.91
5:E:261:HIS:HD1	5:E:283:SER:HG	1.12	0.91
2:B:3302:ILE:HG22	2:B:3303:GLU:N	1.80	0.91
7:G:119:PRO:CD	9:I:12:ILE:HD13	1.97	0.91
10:J:32:CYS:HB2	10:J:96:ILE:CG1	1.99	0.91
1:A:1273:PHE:C	4:D:166:PHE:CE1	2.41	0.91
1:A:1638:THR:CB	1:A:1655:GLN:CG	2.48	0.91
5:E:20:PHE:CZ	15:O:80:LYS:HG2	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:19:MET:HB2	9:I:22:LYS:HG2	1.52	0.91
14:N:72:ILE:HG12	15:O:97:ILE:HG23	1.51	0.91
1:A:590:GLN:HB2	1:A:609:TRP:HZ2	1.30	0.91
1:A:614:PHE:CE1	1:A:644:LEU:HD22	2.05	0.91
1:A:3110:LEU:HD12	1:A:3443:LEU:HD23	1.53	0.91
1:A:3251:ILE:HD11	17:Q:83:VAL:H	1.30	0.91
2:B:1237:ARG:HD3	2:B:1260:ALA:HA	1.51	0.91
2:B:1381:ALA:HB1	2:B:1431:VAL:HG21	1.50	0.91
3:C:2701:ILE:CD1	3:C:2704:LYS:CG	2.46	0.91
5:E:23:THR:HG22	14:N:88:TYR:HA	1.53	0.91
5:E:112:LEU:CD2	6:F:97:MET:HG2	2.01	0.91
8:H:65:PHE:CA	9:I:80:GLY:CA	2.48	0.91
1:A:1157:GLN:HG2	1:A:1180:ARG:HH22	1.34	0.90
2:B:444:LEU:HA	5:E:515:LYS:HG2	1.43	0.90
2:B:1127:ASN:CB	2:B:1128:PRO:HD2	2.02	0.90
2:B:3301:ASN:CB	2:B:3351:LYS:HZ1	1.84	0.90
3:C:143:PRO:HG3	3:C:187:TRP:CE2	2.06	0.90
4:D:70:MET:HE2	5:E:13:GLU:CB	2.02	0.90
4:D:172:GLU:HG3	12:L:51:LYS:CE	2.01	0.90
5:E:112:LEU:HD22	6:F:97:MET:SD	2.11	0.90
1:A:1012:LYS:CB	1:A:1071:ILE:HG21	2.00	0.90
2:B:1567:PRO:CD	3:C:2275:LYS:HE3	2.00	0.90
2:B:2191:THR:OG1	20:B:5601:ATP:PA	2.28	0.90
4:D:75:LEU:HD12	15:O:102:LEU:HD12	1.52	0.90
4:D:248:MET:HE2	7:G:147:VAL:CG2	2.00	0.90
5:E:385:SER:OG	5:E:394:TRP:HZ3	1.55	0.90
6:F:19:GLY:O	6:F:101:GLN:HB2	1.72	0.90
1:A:728:ASN:HD21	4:D:396:THR:HG22	1.17	0.90
1:A:1540:GLN:O	1:A:1544:ILE:CG1	2.18	0.90
2:B:798:ASN:HB3	2:B:874:ALA:HB2	1.53	0.90
2:B:970:ALA:CB	3:C:345:TRP:CE3	2.54	0.90
3:C:268:ILE:HD13	3:C:301:TRP:CZ2	2.07	0.90
6:F:14:LEU:CD2	6:F:23:TYR:CG	2.53	0.90
10:J:34:ASP:HB2	15:O:31:PRO:HG3	0.91	0.90
1:A:332:PRO:HA	1:A:380:ARG:CB	2.01	0.90
1:A:806:ILE:HD13	1:A:890:TYR:CE2	2.07	0.90
2:B:762:ILE:HA	2:B:765:PHE:HB3	1.54	0.90
2:B:888:PRO:O	2:B:891:ILE:HG22	1.72	0.90
2:B:3139:GLY:CA	2:B:3433:TRP:HH2	1.68	0.90
2:B:3264:ASN:CG	2:B:3306:ILE:HD11	1.96	0.90
15:O:45:ARG:CB	15:O:63:LEU:CD1	2.49	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:760:ASP:O	1:A:764:ARG:HG2	1.70	0.90
1:A:1642:ALA:CB	1:A:1652:GLN:HB2	2.00	0.90
1:A:3251:ILE:HD13	17:Q:61:SER:HA	1.37	0.90
2:B:1109:THR:O	2:B:1113:LEU:CG	2.15	0.90
3:C:24:HIS:NE2	3:C:325:SER:CB	2.34	0.90
3:C:2730:LEU:HD23	3:C:2738:ILE:HD13	1.52	0.90
5:E:384:LEU:HD12	5:E:384:LEU:O	1.70	0.90
8:H:60:ILE:HG12	9:I:85:TYR:HB3	1.51	0.90
8:H:76:TYR:CE1	8:H:87:LEU:CD1	2.55	0.90
12:L:76:CYS:HB2	12:L:107:LEU:HD13	1.54	0.90
2:B:518:TYR:CD2	5:E:404:ARG:NH1	2.36	0.90
2:B:3251:GLY:HA3	2:B:3329:GLN:OE1	1.71	0.90
1:A:3194:ALA:CB	1:A:3356:VAL:HG22	2.01	0.90
2:B:682:LYS:NZ	5:E:186:PHE:HD1	1.41	0.90
2:B:935:ASN:HB3	3:C:283:THR:HG21	1.50	0.90
3:C:99:GLY:HA3	3:C:149:HIS:HE1	1.33	0.90
5:E:58:GLU:CB	10:J:89:VAL:HA	2.01	0.90
6:F:51:LEU:HD21	7:G:116:ASP:CB	2.02	0.90
2:B:1467:PHE:HZ	2:B:1563:VAL:HG11	1.34	0.90
2:B:1511:VAL:CG1	2:B:1570:VAL:CG2	2.35	0.90
2:B:1567:PRO:HD2	3:C:2275:LYS:HE3	1.54	0.90
5:E:112:LEU:HD21	6:F:97:MET:SD	2.09	0.90
1:A:1020:PHE:HZ	1:A:1069:TYR:CZ	1.81	0.90
1:A:1274:GLY:N	4:D:166:PHE:CE1	2.39	0.90
2:B:89:ILE:H	2:B:100:THR:CB	1.84	0.90
2:B:467:VAL:O	2:B:471:THR:CA	2.20	0.90
2:B:3261:ILE:HG22	2:B:3306:ILE:HG23	1.52	0.90
3:C:2669:ILE:HD13	3:C:2847:ALA:HB2	1.50	0.90
4:D:367:LEU:CD2	4:D:371:THR:OG1	2.20	0.90
4:D:518:SER:OG	4:D:528:TRP:HZ3	1.47	0.90
4:D:567:GLN:CD	4:D:578:LYS:HE3	1.97	0.90
6:F:21:ASN:HD21	6:F:102:LEU:HD11	1.36	0.90
16:P:16:GLU:CB	16:P:74:LEU:HA	2.01	0.90
1:A:403:ALA:CA	1:A:471:ASN:CB	2.50	0.90
2:B:1116:PHE:HA	2:B:1119:LYS:NZ	1.87	0.90
2:B:3162:VAL:O	2:B:3166:LYS:HG3	1.71	0.90
6:F:56:TRP:CH2	6:F:74:ILE:HG13	2.06	0.90
1:A:604:ALA:N	1:A:698:GLU:OE1	2.03	0.89
2:B:725:ILE:HG21	2:B:776:LEU:CG	2.01	0.89
3:C:33:HIS:HB2	3:C:60:LEU:HB2	1.52	0.89
3:C:165:GLY:C	3:C:174:PHE:CE2	2.49	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2745:LYS:CD	3:C:2749:VAL:CG2	1.96	0.89
6:F:91:GLN:HG2	6:F:96:THR:HG22	0.90	0.89
1:A:600:MET:HE2	1:A:697:ARG:NH1	1.87	0.89
1:A:670:LEU:CD2	1:A:772:TRP:CD1	2.54	0.89
1:A:763:LEU:HD13	1:A:763:LEU:C	1.97	0.89
1:A:1132:LEU:CB	1:A:1272:LEU:CD1	2.50	0.89
1:A:1418:ASP:CG	1:A:3604:LYS:NZ	2.30	0.89
1:A:3443:LEU:HD13	1:A:3493:PHE:CZ	2.04	0.89
2:B:794:LEU:O	2:B:797:PHE:CE2	2.25	0.89
2:B:864:ASN:HB3	2:B:947:LEU:HB2	1.50	0.89
2:B:1058:LYS:HG3	2:B:1166:GLU:CA	2.01	0.89
2:B:1123:GLY:HA2	2:B:1197:PHE:HZ	1.33	0.89
3:C:261:ILE:HG21	3:C:385:ASP:CB	2.01	0.89
5:E:110:LYS:HG2	6:F:10:GLN:CD	1.96	0.89
10:J:26:VAL:HG23	10:J:98:PHE:HB3	1.51	0.89
1:A:907:ASN:O	1:A:911:TYR:CD2	2.25	0.89
1:A:3232:ILE:CG1	1:A:3316:TRP:CE3	2.25	0.89
2:B:1395:LEU:CA	2:B:1430:ILE:HD13	2.01	0.89
2:B:1528:LEU:HD21	2:B:1591:CYS:HB2	1.53	0.89
3:C:359:GLY:O	3:C:440:TYR:CB	2.20	0.89
2:B:1531:ILE:CD1	2:B:1595:LEU:CD1	2.51	0.89
3:C:175:ASN:HB2	3:C:199:PRO:HG3	1.50	0.89
4:D:602:LEU:HD12	4:D:616:LEU:HD21	1.54	0.89
5:E:239:LEU:CD2	5:E:257:VAL:HG22	2.01	0.89
17:Q:43:GLY:HA3	17:Q:67:SER:CB	2.02	0.89
1:A:580:LEU:HD21	1:A:640:SER:HA	1.52	0.89
2:B:501:ARG:HH21	4:D:491:GLN:HG3	1.33	0.89
2:B:904:LEU:HD11	2:B:911:ILE:HG23	1.54	0.89
2:B:3342:ASN:O	2:B:3346:PHE:HB3	1.70	0.89
4:D:80:PRO:CG	15:O:103:TRP:NE1	2.31	0.89
5:E:48:ILE:HG13	12:L:23:PHE:CE2	2.07	0.89
5:E:60:SER:HB3	10:J:87:GLN:HG3	1.54	0.89
2:B:970:ALA:HB1	3:C:345:TRP:CE3	2.08	0.89
2:B:1485:MET:HA	2:B:1505:ARG:HD2	1.54	0.89
3:C:2666:CYS:HB2	3:C:2848:THR:CA	2.03	0.89
4:D:80:PRO:CD	15:O:103:TRP:CZ2	2.56	0.89
4:D:585:VAL:CG1	4:D:588:PRO:CD	2.50	0.89
5:E:310:LEU:HD11	5:E:358:ARG:HH12	1.38	0.89
8:H:60:ILE:CG1	9:I:85:TYR:CB	2.50	0.89
1:A:598:ARG:NH1	4:D:546:VAL:CG1	2.36	0.89
1:A:598:ARG:NH2	4:D:591:THR:O	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1030:SER:C	1:A:1092:TRP:CH2	2.49	0.89
2:B:900:PHE:HE1	2:B:933:TRP:HH2	1.17	0.89
2:B:1420:LEU:O	2:B:1424:GLU:HG3	1.73	0.89
2:B:3264:ASN:HB2	2:B:3306:ILE:HD12	1.53	0.89
3:C:165:GLY:N	3:C:174:PHE:HE2	1.71	0.89
5:E:117:GLU:CD	6:F:17:LEU:HD11	1.98	0.89
10:J:77:HIS:HE2	11:K:92:LYS:HG2	1.35	0.89
1:A:565:LEU:O	1:A:569:TYR:HD2	1.56	0.89
1:A:722:LYS:O	1:A:726:TYR:HD2	1.54	0.89
1:A:871:LEU:HD22	1:A:872:ASP:N	1.88	0.89
1:A:1562:ILE:HB	1:A:1563:PRO:HD3	1.55	0.89
2:B:956:LEU:CD1	2:B:959:ILE:HD11	2.01	0.89
2:B:1566:ASN:HB3	3:C:2275:LYS:CE	2.03	0.89
3:C:180:LEU:HD22	3:C:187:TRP:CZ3	2.08	0.89
4:D:68:GLU:HG3	5:E:12:LYS:CA	2.03	0.89
4:D:285:PRO:CG	4:D:584:ILE:HG22	2.03	0.89
1:A:95:PHE:O	1:A:124:THR:CB	2.21	0.89
1:A:972:TRP:CZ3	1:A:985:PHE:CE1	2.57	0.89
1:A:1504:VAL:CG2	1:A:1565:CYS:SG	2.61	0.89
2:B:59:THR:N	2:B:82:ASP:O	2.04	0.89
2:B:3162:VAL:CG1	2:B:3166:LYS:HE3	2.02	0.89
3:C:12:GLN:NE2	3:C:349:LEU:CB	2.35	0.89
5:E:42:GLN:HE22	12:L:91:ASN:HD21	1.17	0.89
5:E:59:HIS:NE2	10:J:31:GLU:OE1	2.05	0.89
10:J:38:GLU:HB2	15:O:29:PHE:CE1	2.08	0.89
1:A:59:VAL:O	1:A:100:ASN:O	1.91	0.89
1:A:470:PHE:CB	1:A:485:THR:CB	2.51	0.89
1:A:3242:VAL:HA	1:A:3248:LEU:HD11	1.53	0.89
6:F:51:LEU:HD21	7:G:116:ASP:HB2	1.54	0.89
9:I:78:ILE:CD1	9:I:106:LEU:HB3	2.02	0.89
11:K:55:GLY:HA3	13:M:79:GLU:HG3	1.55	0.89
1:A:1638:THR:HB	1:A:1655:GLN:HG2	1.53	0.88
1:A:3303:ILE:CD1	1:A:3340:TYR:HE2	1.83	0.88
1:A:3446:ASN:HD21	1:A:3488:LEU:HD13	1.37	0.88
2:B:409:SER:O	2:B:413:PHE:N	2.06	0.88
2:B:897:SER:HB3	2:B:898:PRO:HD3	1.55	0.88
3:C:2617:VAL:CG2	3:C:3183:ILE:HD13	2.02	0.88
3:C:2727:ILE:CD1	3:C:2745:LYS:CB	2.51	0.88
4:D:517:ILE:CG1	4:D:550:TRP:CE2	2.53	0.88
5:E:16:ASN:HB3	15:O:132:GLU:HG3	0.89	0.88
5:E:46:ASN:CB	12:L:88:PHE:HE1	1.82	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:61:VAL:CG1	10:J:95:PHE:CZ	2.56	0.88
5:E:99:ILE:CD1	6:F:31:ILE:CD1	2.51	0.88
2:B:429:LEU:CG	2:B:489:PHE:CE2	2.54	0.88
14:N:70:THR:HG22	15:O:99:SER:HB3	1.56	0.88
14:N:72:ILE:CB	15:O:97:ILE:HG12	2.02	0.88
1:A:854:GLU:HG2	5:E:205:PRO:HG2	1.54	0.88
1:A:1028:LYS:C	1:A:1088:TRP:HH2	1.81	0.88
2:B:436:PHE:CZ	2:B:499:LEU:CD2	2.45	0.88
2:B:1330:TRP:O	2:B:1409:SER:O	1.90	0.88
3:C:196:PRO:N	3:C:239:TRP:HZ2	1.71	0.88
3:C:2734:PHE:CE2	3:C:2767:LYS:HE3	2.07	0.88
5:E:61:VAL:HG22	10:J:106:LEU:HD21	1.55	0.88
5:E:261:HIS:HE1	5:E:283:SER:CB	1.86	0.88
1:A:576:TYR:HE1	1:A:620:PRO:O	1.28	0.88
1:A:598:ARG:HD3	4:D:319:TYR:CE1	2.08	0.88
1:A:3110:LEU:CD1	1:A:3443:LEU:CD2	2.51	0.88
2:B:56:ASP:O	2:B:71:CYS:CB	2.22	0.88
2:B:957:GLN:CB	3:C:220:TRP:CH2	2.56	0.88
3:C:36:PHE:CB	3:C:57:VAL:HG22	2.03	0.88
4:D:92:TYR:CG	13:M:29:LYS:CB	2.56	0.88
4:D:174:GLN:OE1	12:L:49:LEU:CD1	2.19	0.88
6:F:91:GLN:CB	6:F:96:THR:HG22	2.03	0.88
8:H:7:VAL:HG23	8:H:9:PRO:HD3	1.56	0.88
8:H:12:LYS:CG	8:H:80:TYR:CE2	2.56	0.88
1:A:723:PHE:CD1	1:A:772:TRP:CZ2	2.61	0.88
1:A:3236:ILE:HA	1:A:3333:LEU:HD21	1.54	0.88
2:B:717:MET:SD	5:E:258:GLU:OE2	2.31	0.88
5:E:266:THR:OG1	5:E:283:SER:HA	1.74	0.88
5:E:386:VAL:HG13	5:E:391:CYS:HB3	1.54	0.88
10:J:32:CYS:SG	10:J:96:ILE:CD1	2.60	0.88
1:A:1430:ARG:HG2	1:A:1490:PHE:CD2	2.09	0.88
1:A:1433:LEU:HD11	1:A:1490:PHE:CE1	2.08	0.88
3:C:12:GLN:NE2	3:C:349:LEU:HB3	1.89	0.88
3:C:2720:PRO:HB2	3:C:2798:PHE:CD2	2.07	0.88
4:D:109:PHE:CD2	15:O:121:TYR:CE2	2.61	0.88
4:D:172:GLU:N	13:M:64:HIS:HB2	1.88	0.88
4:D:584:ILE:CG2	4:D:614:VAL:CG2	2.52	0.88
8:H:62:GLY:CA	9:I:83:TYR:HA	2.02	0.88
1:A:3249:ILE:HD11	1:A:3274:ASP:N	1.88	0.88
4:D:94:ARG:CZ	13:M:78:ASN:ND2	2.36	0.88
4:D:266:TYR:OH	5:E:121:TYR:CB	2.19	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:528:TRP:CE2	4:D:535:GLN:HB3	2.07	0.88
5:E:50:LEU:HD13	12:L:95:PHE:CG	2.07	0.88
7:G:58:SER:O	7:G:62:ASP:CB	2.21	0.88
15:O:30:TYR:N	15:O:31:PRO:HD2	1.89	0.88
17:Q:69:ASN:HA	17:Q:92:ASP:CB	2.03	0.88
3:C:2606:GLY:C	3:C:2910:TRP:CZ3	2.52	0.88
3:C:2711:SER:HB3	3:C:2751:TRP:HZ2	1.30	0.88
4:D:105:MET:CE	14:N:48:GLN:CA	2.51	0.88
14:N:72:ILE:CG1	15:O:97:ILE:CD1	2.52	0.88
1:A:972:TRP:CE3	1:A:985:PHE:CZ	2.51	0.88
1:A:3248:LEU:HB2	17:Q:104:TYR:HE1	1.37	0.88
2:B:903:ARG:HB2	2:B:914:ASP:OD2	1.72	0.88
4:D:207:ALA:C	9:I:24:ILE:CD1	2.46	0.88
4:D:212:ILE:HD13	9:I:15:LEU:HD22	1.55	0.88
4:D:397:ASP:HB3	4:D:398:PRO:CD	2.02	0.88
4:D:398:PRO:HD3	4:D:419:SER:HB3	1.54	0.88
5:E:53:ILE:HD13	12:L:81:ASN:ND2	1.67	0.88
1:A:614:PHE:CE1	1:A:644:LEU:HB3	2.09	0.88
1:A:944:LEU:CD1	1:A:1013:VAL:HG11	2.04	0.88
2:B:87:LYS:CB	2:B:104:VAL:H	1.86	0.88
5:E:282:THR:CG2	5:E:322:LEU:HD12	2.04	0.88
1:A:1101:HIS:CA	1:A:1163:LEU:HD11	2.03	0.87
1:A:3249:ILE:HD11	1:A:3274:ASP:H	1.36	0.87
2:B:658:GLN:HE21	2:B:672:ASN:CG	1.82	0.87
2:B:679:ARG:HA	5:E:186:PHE:CZ	2.10	0.87
3:C:2740:ILE:CB	3:C:2744:LYS:CB	2.48	0.87
4:D:172:GLU:CA	13:M:64:HIS:HB3	1.91	0.87
1:A:942:VAL:HG21	1:A:1021:THR:HG22	1.56	0.87
2:B:3118:TYR:HE2	2:B:3452:LEU:N	1.71	0.87
2:B:3230:ALA:HB1	2:B:3342:ASN:CG	1.67	0.87
3:C:354:VAL:CG2	3:C:357:ILE:HG13	2.03	0.87
3:C:2018:GLN:HG3	19:C:4702:ADP:H2'	1.56	0.87
1:A:604:ALA:HB3	1:A:698:GLU:HG2	1.56	0.87
1:A:1638:THR:CB	1:A:1655:GLN:HG3	2.04	0.87
1:A:3236:ILE:HA	1:A:3333:LEU:CD2	2.05	0.87
2:B:1395:LEU:CA	2:B:1430:ILE:CD1	2.52	0.87
3:C:2617:VAL:HG22	3:C:3183:ILE:HD13	1.56	0.87
3:C:2742:LYS:HE2	3:C:2785:VAL:HG21	1.57	0.87
5:E:24:GLU:OE2	14:N:91:THR:HG22	1.73	0.87
5:E:50:LEU:CD1	12:L:95:PHE:HB2	2.04	0.87
9:I:93:THR:HB	9:I:109:LYS:HB3	1.53	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1458:MET:CE	1:A:1518:TRP:CH2	2.58	0.87
1:A:3236:ILE:HG22	1:A:3332:ILE:HG22	1.56	0.87
2:B:946:ARG:N	2:B:955:PHE:CE2	2.40	0.87
3:C:2734:PHE:CE2	3:C:2767:LYS:CE	2.57	0.87
4:D:172:GLU:CG	12:L:51:LYS:HE2	2.03	0.87
4:D:195:ILE:CD1	9:I:94:LEU:HD21	2.03	0.87
4:D:201:GLN:OE1	9:I:102:ASN:CB	2.23	0.87
4:D:395:HIS:CE1	4:D:399:VAL:HG12	2.09	0.87
6:F:91:GLN:NE2	6:F:96:THR:HG21	1.89	0.87
1:A:891:PHE:CE1	1:A:985:PHE:HZ	1.92	0.87
1:A:1274:GLY:C	4:D:164:ASN:OD1	2.18	0.87
1:A:1444:GLN:NE2	1:A:1560:LYS:HG2	1.87	0.87
2:B:1119:LYS:HB3	2:B:1138:LYS:CE	2.04	0.87
2:B:1467:PHE:HB3	2:B:1470:LEU:HD11	0.87	0.87
5:E:61:VAL:HG21	10:J:106:LEU:HD22	1.51	0.87
5:E:117:GLU:CG	6:F:17:LEU:CD1	2.09	0.87
5:E:310:LEU:HD11	5:E:358:ARG:NH1	1.88	0.87
6:F:87:TYR:HB3	6:F:98:LEU:HD11	1.55	0.87
9:I:20:ILE:O	9:I:99:TYR:OH	1.92	0.87
10:J:36:ILE:HG23	10:J:72:PHE:CZ	2.09	0.87
1:A:1633:ALA:HB1	1:A:1839:LEU:O	1.72	0.87
1:A:3124:ILE:CD1	1:A:3429:TRP:CD1	2.58	0.87
1:A:3235:TYR:CZ	1:A:3269:LEU:HD12	1.96	0.87
1:A:3293:PHE:CE1	1:A:3335:TRP:CH2	2.63	0.87
2:B:1395:LEU:HA	2:B:1430:ILE:HD11	1.54	0.87
2:B:1492:LYS:NZ	2:B:3606:GLN:CD	2.32	0.87
6:F:61:LYS:HE2	8:H:33:ASP:O	1.74	0.87
7:G:118:ASP:OD1	9:I:12:ILE:CD1	2.22	0.87
10:J:26:VAL:HG23	10:J:98:PHE:CB	2.05	0.87
12:L:84:CYS:HB2	13:M:56:ILE:HG12	1.57	0.87
17:Q:43:GLY:HA2	17:Q:67:SER:CB	2.04	0.87
1:A:95:PHE:CB	1:A:124:THR:CB	2.51	0.87
1:A:3215:ILE:CG2	1:A:3219:ASP:CG	2.48	0.87
2:B:1145:LYS:O	2:B:1149:ASP:HB2	1.75	0.87
2:B:1531:ILE:HD13	2:B:1618:LEU:HD22	1.57	0.87
2:B:4227:PHE:HB2	2:B:4230:ILE:HD11	1.54	0.87
3:C:2735:ASN:OD1	3:C:2736:GLU:N	2.06	0.87
10:J:75:TYR:HB3	11:K:92:LYS:HE2	1.57	0.87
1:A:40:LEU:N	1:A:41:LEU:N	2.23	0.87
1:A:1044:THR:OG1	1:A:1047:ASN:HB2	1.75	0.87
2:B:444:LEU:O	5:E:515:LYS:HG3	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:829:VAL:HG11	2:B:940:ILE:CG2	2.04	0.87
2:B:864:ASN:HB2	2:B:947:LEU:HD21	1.50	0.87
4:D:543:MET:HE1	4:D:563:MET:HE2	1.56	0.87
5:E:46:ASN:O	12:L:88:PHE:CE1	2.27	0.87
1:A:600:MET:HE2	1:A:697:ARG:HH11	1.38	0.86
1:A:600:MET:HE1	1:A:697:ARG:HH11	1.40	0.86
1:A:763:LEU:HD13	1:A:763:LEU:O	1.75	0.86
1:A:3124:ILE:HD13	1:A:3425:GLU:HG3	1.56	0.86
2:B:511:PHE:CE2	2:B:547:LEU:CD2	2.56	0.86
2:B:660:LEU:HD11	2:B:715:LEU:HD21	1.57	0.86
2:B:973:THR:HG21	3:C:343:ASN:CB	2.05	0.86
2:B:3401:ARG:O	2:B:3405:VAL:HG23	1.75	0.86
3:C:2018:GLN:CG	19:C:4702:ADP:H2'	2.04	0.86
2:B:3268:THR:HG22	2:B:3269:LEU:H	1.40	0.86
2:B:3301:ASN:CG	2:B:3351:LYS:NZ	2.32	0.86
3:C:12:GLN:HE21	3:C:349:LEU:CB	1.87	0.86
14:N:72:ILE:HG12	15:O:97:ILE:HD13	1.56	0.86
1:A:3298:ILE:O	1:A:3343:HIS:NE2	2.08	0.86
2:B:957:GLN:CA	3:C:220:TRP:HH2	1.81	0.86
3:C:12:GLN:HE21	3:C:349:LEU:HB2	1.37	0.86
4:D:523:TRP:HB3	4:D:544:MET:HA	1.57	0.86
5:E:16:ASN:CA	15:O:132:GLU:HG3	2.06	0.86
8:H:67:SER:CB	9:I:78:ILE:CG2	2.53	0.86
14:N:89:GLN:HE22	14:N:116:ALA:H	1.23	0.86
16:P:39:TRP:CB	16:P:40:SER:N	2.39	0.86
17:Q:24:SER:CB	17:Q:48:THR:O	2.23	0.86
1:A:723:PHE:HE1	1:A:772:TRP:CE2	1.93	0.86
1:A:1028:LYS:O	1:A:1088:TRP:CH2	2.29	0.86
1:A:1459:LEU:O	1:A:1552:MET:SD	2.33	0.86
3:C:504:ALA:HB1	3:C:525:LYS:CB	2.04	0.86
3:C:2774:VAL:HG12	3:C:2780:VAL:HG21	1.56	0.86
4:D:248:MET:HE2	7:G:147:VAL:HG23	1.56	0.86
4:D:252:VAL:HG13	7:G:149:GLN:HE22	1.35	0.86
6:F:61:LYS:CE	8:H:33:ASP:O	2.24	0.86
1:A:709:ILE:HG22	1:A:710:PRO:CD	2.03	0.86
1:A:871:LEU:HD22	1:A:872:ASP:H	1.40	0.86
1:A:3251:ILE:CD1	17:Q:61:SER:C	2.48	0.86
2:B:57:ASN:HA	2:B:71:CYS:CB	2.05	0.86
2:B:503:LEU:O	2:B:507:ILE:HG13	1.75	0.86
2:B:658:GLN:CG	2:B:672:ASN:O	2.24	0.86
2:B:733:GLU:CD	2:B:783:MET:HG2	1.99	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3255:THR:OG1	2:B:3337:CYS:SG	2.32	0.86
4:D:585:VAL:HG12	4:D:588:PRO:HD2	1.57	0.86
5:E:129:LEU:HD11	6:F:80:ARG:HD3	1.55	0.86
5:E:428:VAL:HG12	5:E:434:MET:HG3	1.57	0.86
1:A:3128:THR:HG22	1:A:3422:LEU:HB3	1.56	0.86
1:A:3306:LEU:HD13	1:A:3306:LEU:C	2.00	0.86
2:B:679:ARG:HD3	5:E:187:GLN:OE1	1.76	0.86
2:B:1374:THR:O	2:B:1424:GLU:OE2	1.91	0.86
4:D:75:LEU:HB2	15:O:102:LEU:HD11	0.86	0.86
4:D:111:MET:HE1	15:O:90:ILE:HG22	1.55	0.86
4:D:207:ALA:CA	9:I:24:ILE:HD11	2.06	0.86
14:N:116:ALA:O	15:O:131:PHE:CD1	2.28	0.86
2:B:429:LEU:HD12	2:B:489:PHE:HE2	1.36	0.86
2:B:660:LEU:CB	2:B:755:ILE:CD1	2.53	0.86
3:C:2708:GLN:CD	3:C:2813:ILE:HD11	2.01	0.86
4:D:90:ASP:CG	13:M:32:LYS:CG	2.47	0.86
4:D:543:MET:HE3	4:D:563:MET:HE3	1.55	0.86
5:E:100:GLU:CB	5:E:105:PHE:CD2	2.27	0.86
6:F:91:GLN:HG2	6:F:96:THR:CB	2.04	0.86
1:A:1597:LYS:NZ	1:A:1962:ILE:HD11	1.90	0.86
1:A:3257:VAL:CG1	1:A:3266:VAL:CA	2.46	0.86
2:B:81:ILE:O	2:B:110:VAL:CA	2.18	0.86
2:B:724:HIS:CG	2:B:728:CYS:SG	2.69	0.86
2:B:957:GLN:HB2	3:C:220:TRP:CH2	2.10	0.86
2:B:1559:MET:CE	2:B:1577:ARG:NH2	2.36	0.86
4:D:584:ILE:CG2	4:D:614:VAL:HG21	2.05	0.86
4:D:595:PHE:CD1	4:D:602:LEU:CD2	2.58	0.86
1:A:565:LEU:O	1:A:569:TYR:CD2	2.28	0.86
1:A:686:VAL:HG23	1:A:731:LEU:HD23	1.58	0.86
1:A:1445:PHE:CE2	1:A:1564:CYS:HB2	2.11	0.86
2:B:799:VAL:CB	2:B:800:LYS:N	2.38	0.86
2:B:1175:ASN:O	2:B:1179:THR:HG23	1.74	0.86
2:B:1485:MET:CB	2:B:1505:ARG:HD2	2.05	0.86
4:D:297:LYS:HZ3	4:D:328:LEU:HB2	1.07	0.86
4:D:398:PRO:HD3	4:D:419:SER:CB	2.03	0.86
4:D:529:ASP:OD2	4:D:532:TYR:HD2	1.58	0.86
5:E:391:CYS:SG	5:E:427:LEU:HD11	2.15	0.86
14:N:75:GLN:H	15:O:93:GLN:HE21	1.23	0.86
1:A:807:GLU:HG2	1:A:811:LYS:CE	2.05	0.86
1:A:1013:VAL:HG12	1:A:1017:LEU:HD11	1.56	0.86
2:B:679:ARG:HB3	5:E:186:PHE:CE2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:913:PHE:HE2	2:B:1078:ILE:CD1	1.89	0.86
4:D:269:SER:OG	4:D:617:SER:HA	1.75	0.86
8:H:67:SER:HB2	9:I:78:ILE:CG2	2.05	0.86
8:H:70:THR:OG1	9:I:64:LYS:NZ	2.07	0.86
8:H:71:PHE:HB3	8:H:89:PHE:HB2	1.57	0.86
1:A:121:GLY:CA	2:B:105:ALA:O	2.24	0.85
1:A:1426:GLN:CB	1:A:1486:HIS:HB3	2.05	0.85
2:B:162:TYR:CB	2:B:176:LEU:CB	2.53	0.85
2:B:595:LEU:CD2	5:E:389:TRP:HZ2	1.89	0.85
2:B:1317:LEU:CB	16:P:61:GLU:HA	2.05	0.85
2:B:3139:GLY:HA3	2:B:3433:TRP:HH2	0.76	0.85
2:B:3230:ALA:HB1	2:B:3342:ASN:OD1	1.76	0.85
3:C:2721:GLU:N	3:C:2798:PHE:CZ	2.44	0.85
5:E:310:LEU:HG	5:E:358:ARG:HH21	1.38	0.85
5:E:395:VAL:HG23	5:E:402:ILE:CG1	2.05	0.85
1:A:744:ILE:HD13	1:A:752:LEU:HD23	1.56	0.85
1:A:1433:LEU:HD12	1:A:1490:PHE:CD1	2.11	0.85
1:A:3194:ALA:CB	1:A:3356:VAL:CG2	2.54	0.85
2:B:660:LEU:HD22	2:B:671:VAL:HA	1.57	0.85
2:B:1139:LEU:HD21	2:B:1198:ILE:CG1	2.06	0.85
5:E:46:ASN:O	12:L:88:PHE:CD2	2.29	0.85
5:E:53:ILE:HD13	12:L:81:ASN:HD21	1.41	0.85
5:E:64:GLU:OE2	10:J:18:TYR:HE2	1.59	0.85
1:A:3212:VAL:HG22	1:A:3338:ALA:HB3	1.58	0.85
2:B:1123:GLY:CA	2:B:1197:PHE:CZ	2.59	0.85
2:B:1470:LEU:O	2:B:1474:MET:HG2	1.76	0.85
2:B:3445:LYS:HB3	2:B:3487:PRO:CB	2.05	0.85
3:C:2213:ARG:NH2	19:C:4702:ADP:O3A	2.09	0.85
6:F:56:TRP:CD2	6:F:91:GLN:NE2	2.44	0.85
1:A:3251:ILE:CD1	17:Q:83:VAL:N	2.39	0.85
4:D:115:TYR:CZ	14:N:78:HIS:HD2	1.92	0.85
4:D:175:THR:OG1	13:M:60:ASN:HA	1.76	0.85
4:D:414:PHE:HB3	4:D:426:TRP:HB2	1.58	0.85
5:E:16:ASN:ND2	15:O:132:GLU:HA	1.92	0.85
5:E:239:LEU:HD21	5:E:257:VAL:CG2	2.03	0.85
8:H:67:SER:HB2	9:I:78:ILE:HG22	1.57	0.85
11:K:18:MET:HE2	11:K:21:MET:HE3	1.55	0.85
1:A:1487:VAL:HG23	1:A:1490:PHE:CZ	2.10	0.85
2:B:973:THR:HG21	3:C:343:ASN:HB3	1.58	0.85
4:D:70:MET:CE	5:E:13:GLU:HB3	2.07	0.85
4:D:626:GLU:OE1	4:D:629:GLN:HG2	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:72:ILE:HG23	15:O:97:ILE:HG13	1.54	0.85
1:A:948:LEU:HG	1:A:1010:LYS:HG2	1.57	0.85
3:C:165:GLY:CA	3:C:174:PHE:CE2	2.60	0.85
4:D:617:SER:OG	4:D:618:PRO:HD2	1.75	0.85
1:A:3257:VAL:HG11	1:A:3266:VAL:CG2	2.06	0.85
2:B:741:ILE:CD1	2:B:776:LEU:HD11	2.05	0.85
2:B:3143:LEU:HD23	2:B:3698:LEU:CD1	2.06	0.85
3:C:165:GLY:O	3:C:174:PHE:HZ	1.53	0.85
8:H:67:SER:HA	9:I:78:ILE:HG22	1.57	0.85
9:I:30:MET:HE2	9:I:35:LEU:HD23	1.59	0.85
1:A:1263:TYR:HE2	1:A:1280:TYR:O	1.60	0.85
1:A:3303:ILE:CD1	1:A:3340:TYR:CE2	2.58	0.85
2:B:58:SER:H	2:B:70:LYS:C	1.85	0.85
2:B:957:GLN:HG3	3:C:164:HIS:CE1	2.06	0.85
2:B:957:GLN:HG3	3:C:164:HIS:HE1	1.39	0.85
2:B:1069:THR:HB	2:B:1070:PRO:HD2	1.56	0.85
4:D:105:MET:HE3	14:N:51:ILE:HD12	1.55	0.85
4:D:196:CYS:SG	9:I:86:ASP:CG	2.59	0.85
14:N:116:ALA:HB3	15:O:131:PHE:CE1	2.11	0.85
1:A:155:GLY:N	2:B:168:ILE:HA	1.91	0.85
1:A:601:PRO:HG2	1:A:698:GLU:HG2	1.58	0.85
1:A:837:GLN:HE22	1:A:958:ALA:CB	1.89	0.85
1:A:970:TYR:C	1:A:983:ALA:HB1	2.00	0.85
1:A:1525:PHE:CG	1:A:1541:PHE:HD2	1.95	0.85
1:A:1633:ALA:HB3	1:A:1839:LEU:O	1.76	0.85
1:A:3299:ASN:HB3	1:A:3302:THR:OG1	1.77	0.85
2:B:1559:MET:HG3	2:B:1577:ARG:NH2	1.90	0.85
3:C:2701:ILE:HD11	3:C:2704:LYS:HD2	0.85	0.85
3:C:2800:PRO:HD2	3:C:2801:GLU:N	1.90	0.85
10:J:26:VAL:HG23	10:J:97:TYR:C	2.01	0.85
13:M:12:MET:HG3	13:M:73:ILE:HB	1.58	0.85
15:O:22:LEU:CD1	15:O:23:ASN:OD1	2.24	0.85
1:A:3117:PHE:CD2	1:A:3429:TRP:HZ3	1.94	0.85
1:A:3240:VAL:HG12	1:A:3244:PHE:CE1	2.12	0.85
2:B:682:LYS:CE	5:E:186:PHE:CD1	2.55	0.85
2:B:736:LEU:HD12	2:B:859:TYR:HB2	1.59	0.85
2:B:799:VAL:C	2:B:800:LYS:CA	2.49	0.85
2:B:957:GLN:CB	3:C:220:TRP:CZ3	2.59	0.85
2:B:1447:ILE:CD1	2:B:1484:LEU:CB	2.55	0.85
3:C:2727:ILE:HD13	3:C:2745:LYS:HD3	0.86	0.85
3:C:2793:LEU:CA	3:C:2796:PRO:HG2	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:107:VAL:HG21	15:O:96:ARG:HG2	1.55	0.85
7:G:58:SER:C	7:G:59:GLU:CA	2.49	0.85
9:I:95:LEU:HD23	9:I:107:ILE:HD11	1.57	0.85
1:A:935:VAL:HG22	1:A:944:LEU:HD22	0.85	0.84
1:A:1140:GLU:OE2	4:D:165:LYS:HE2	1.77	0.84
1:A:1429:ILE:CG2	1:A:1490:PHE:CZ	2.59	0.84
2:B:10:PRO:O	2:B:25:GLN:N	2.10	0.84
2:B:1230:MET:HE2	2:B:1267:TYR:HA	1.58	0.84
2:B:2333:PRO:C	20:B:5601:ATP:N1	2.35	0.84
2:B:2543:GLY:HA2	19:B:5501:ADP:PA	2.16	0.84
2:B:3136:TYR:O	2:B:3433:TRP:CE3	2.30	0.84
8:H:46:LYS:HE3	9:I:86:ASP:CB	2.04	0.84
14:N:85:ILE:HG22	14:N:98:ILE:CD1	1.96	0.84
1:A:891:PHE:CE1	1:A:985:PHE:CZ	2.64	0.84
1:A:1031:ILE:CG2	1:A:1034:SER:OG	2.24	0.84
2:B:799:VAL:CA	2:B:800:LYS:N	2.40	0.84
2:B:3228:GLU:HG2	2:B:3346:PHE:CE1	2.12	0.84
4:D:105:MET:SD	14:N:48:GLN:CB	2.64	0.84
4:D:208:TYR:HE1	9:I:100:ASN:HB3	1.09	0.84
1:A:505:THR:O	1:A:509:LYS:N	2.10	0.84
1:A:853:VAL:CG2	5:E:206:ASN:ND2	2.40	0.84
2:B:1058:LYS:CG	2:B:1166:GLU:O	2.25	0.84
5:E:44:ASN:O	12:L:89:ASP:OD1	1.96	0.84
14:N:72:ILE:HG21	15:O:97:ILE:CD1	1.84	0.84
1:A:761:LEU:C	1:A:761:LEU:HD13	2.02	0.84
1:A:841:ILE:HD13	1:A:961:ALA:HB1	1.59	0.84
2:B:651:SER:OG	2:B:680:LEU:HD22	1.75	0.84
2:B:714:ALA:HA	2:B:717:MET:HE2	1.57	0.84
2:B:864:ASN:CA	2:B:947:LEU:CG	2.21	0.84
2:B:2190:LYS:CE	20:B:5601:ATP:O1B	2.25	0.84
4:D:80:PRO:CG	15:O:103:TRP:CZ2	2.60	0.84
4:D:252:VAL:CG1	7:G:149:GLN:NE2	2.40	0.84
4:D:517:ILE:HG12	4:D:550:TRP:NE1	1.91	0.84
4:D:528:TRP:CD1	4:D:535:GLN:N	2.44	0.84
15:O:22:LEU:HD12	15:O:23:ASN:N	1.92	0.84
1:A:1585:GLN:NE2	1:A:1585:GLN:O	2.11	0.84
2:B:520:ARG:HH12	2:B:550:MET:CG	1.91	0.84
2:B:815:ASP:O	2:B:819:LYS:HG3	1.77	0.84
2:B:3162:VAL:HG13	2:B:3166:LYS:HE3	1.59	0.84
1:A:801:ILE:CD1	1:A:862:LEU:HD23	2.06	0.84
1:A:1133:GLY:HA2	1:A:1268:ARG:O	1.72	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3232:ILE:HG23	1:A:3316:TRP:HE3	1.40	0.84
2:B:603:ILE:HD11	2:B:626:TYR:CE1	2.12	0.84
2:B:861:ASP:OD2	3:C:170:GLN:OE1	1.96	0.84
2:B:2190:LYS:HE2	20:B:5601:ATP:O1B	1.76	0.84
3:C:2723:PHE:CZ	3:C:2749:VAL:HG11	2.13	0.84
1:A:723:PHE:CE1	1:A:772:TRP:CE2	2.65	0.84
1:A:1396:PRO:O	1:A:1400:TYR:N	2.11	0.84
2:B:1447:ILE:CG2	2:B:1504:TRP:CE2	2.47	0.84
2:B:3261:ILE:HG23	2:B:3306:ILE:HG23	1.59	0.84
1:A:155:GLY:HA3	2:B:168:ILE:CA	2.05	0.84
1:A:1012:LYS:HB3	1:A:1071:ILE:CG2	2.08	0.84
1:A:1598:LYS:HD3	1:A:1681:GLU:OE2	1.77	0.84
2:B:1051:ASP:HB3	2:B:1162:THR:CG2	2.08	0.84
2:B:1447:ILE:HG21	2:B:1504:TRP:CD1	2.13	0.84
3:C:1983:THR:HG22	19:C:4702:ADP:N1	1.92	0.84
4:D:70:MET:HE2	5:E:13:GLU:HB3	1.58	0.84
5:E:261:HIS:CE1	5:E:283:SER:CB	2.61	0.84
5:E:323:GLU:HB3	5:E:334:LEU:HB3	1.59	0.84
1:A:1121:LYS:HD3	1:A:1138:THR:CG2	2.07	0.84
2:B:429:LEU:HD11	2:B:489:PHE:CG	2.12	0.84
2:B:443:GLU:CD	5:E:514:ARG:HH12	1.79	0.84
2:B:1511:VAL:N	2:B:1570:VAL:CG1	2.41	0.84
4:D:398:PRO:CD	4:D:419:SER:HB3	2.06	0.84
8:H:28:ALA:HB1	8:H:86:ILE:HD12	1.60	0.84
1:A:794:LEU:C	1:A:794:LEU:HD13	2.03	0.84
1:A:1013:VAL:HG12	1:A:1017:LEU:CD1	2.07	0.84
1:A:598:ARG:HH12	4:D:546:VAL:HG13	1.40	0.83
1:A:700:LYS:HE3	1:A:720:GLU:CD	2.02	0.83
1:A:935:VAL:CG2	1:A:1017:LEU:HD21	2.07	0.83
1:A:1126:VAL:HA	1:A:1131:SER:CB	2.07	0.83
2:B:409:SER:O	2:B:413:PHE:CB	2.26	0.83
2:B:1058:LYS:HG3	2:B:1166:GLU:HB3	0.84	0.83
2:B:1511:VAL:HG13	2:B:1570:VAL:HG23	1.58	0.83
2:B:2334:TYR:CA	20:B:5601:ATP:H2	1.90	0.83
3:C:2708:GLN:OE1	3:C:2813:ILE:HD11	1.78	0.83
5:E:61:VAL:HG21	10:J:106:LEU:CD1	2.08	0.83
10:J:48:LEU:CD1	10:J:100:ILE:HD11	1.95	0.83
12:L:74:TRP:CD1	12:L:109:LYS:HD2	2.12	0.83
1:A:3442:LYS:CB	1:A:3485:THR:HG23	2.04	0.83
2:B:500:GLU:CG	2:B:532:THR:HG21	2.07	0.83
2:B:744:MET:CE	2:B:772:ILE:HG13	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:794:LEU:HA	2:B:797:PHE:HD2	1.41	0.83
2:B:900:PHE:CZ	2:B:933:TRP:CH2	2.66	0.83
2:B:2543:GLY:CA	19:B:5501:ADP:O2A	2.25	0.83
2:B:3268:THR:HG22	2:B:3269:LEU:HD12	1.60	0.83
2:B:3271:ASP:OD1	2:B:3272:PRO:CD	2.19	0.83
4:D:90:ASP:OD1	13:M:32:LYS:HG3	1.79	0.83
5:E:64:GLU:OE2	10:J:18:TYR:CE2	2.30	0.83
1:A:871:LEU:CD2	1:A:872:ASP:H	1.90	0.83
2:B:733:GLU:OE2	2:B:783:MET:HG2	1.73	0.83
2:B:910:GLY:HA2	2:B:995:TYR:CD1	2.13	0.83
4:D:208:TYR:N	9:I:24:ILE:HD12	1.93	0.83
4:D:265:ARG:CB	5:E:125:GLN:HG2	2.08	0.83
4:D:545:VAL:HA	4:D:562:THR:HG22	1.58	0.83
1:A:598:ARG:NH2	4:D:546:VAL:CG1	2.41	0.83
2:B:479:ASN:ND2	2:B:482:GLU:OE2	2.10	0.83
2:B:888:PRO:HA	2:B:891:ILE:HG22	1.60	0.83
2:B:3133:ILE:HG12	2:B:3440:LEU:CD1	2.09	0.83
3:C:2724:ALA:HB1	3:C:2793:LEU:HD13	1.59	0.83
3:C:2807:SER:OG	3:C:2810:ALA:HB2	1.77	0.83
4:D:441:LEU:HD12	4:D:457:ALA:O	1.76	0.83
4:D:552:PRO:HD3	4:D:595:PHE:CD2	2.13	0.83
5:E:99:ILE:HD12	6:F:31:ILE:HD11	1.59	0.83
6:F:48:ILE:CD1	6:F:98:LEU:CD2	2.08	0.83
1:A:659:TRP:CZ2	1:A:702:LEU:HD12	2.12	0.83
1:A:670:LEU:HD23	1:A:772:TRP:CD1	2.13	0.83
1:A:760:ASP:OD2	1:A:764:ARG:HD3	1.79	0.83
1:A:1121:LYS:HD3	1:A:1138:THR:HG22	1.59	0.83
3:C:1983:THR:HB	19:C:4702:ADP:N6	1.93	0.83
5:E:23:THR:HG21	14:N:88:TYR:CD1	2.07	0.83
1:A:1051:GLN:NE2	1:A:1096:TYR:CZ	2.36	0.83
2:B:489:PHE:CE1	2:B:493:ARG:HD3	2.13	0.83
2:B:1485:MET:CA	2:B:1505:ARG:HD2	2.08	0.83
2:B:1602:LYS:NZ	2:B:1683:GLU:OE1	2.03	0.83
4:D:68:GLU:CG	5:E:12:LYS:CA	2.57	0.83
4:D:207:ALA:HB1	9:I:24:ILE:HD11	0.85	0.83
4:D:266:TYR:HH	5:E:121:TYR:CB	1.90	0.83
4:D:543:MET:SD	4:D:563:MET:CB	2.67	0.83
6:F:56:TRP:CZ3	6:F:74:ILE:CD1	2.62	0.83
1:A:3231:ASP:OD2	1:A:3258:PHE:CE2	2.31	0.83
2:B:13:PHE:CB	2:B:25:GLN:O	2.27	0.83
2:B:345:ARG:CB	2:B:412:LEU:CD1	2.56	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1230:MET:HE1	2:B:1267:TYR:N	1.94	0.83
2:B:3178:VAL:CG1	2:B:3395:LEU:CD2	2.42	0.83
5:E:310:LEU:CD1	5:E:358:ARG:NH1	2.41	0.83
8:H:60:ILE:HD12	9:I:78:ILE:HG12	1.57	0.83
2:B:533:ARG:CG	2:B:534:PRO:CD	2.57	0.83
2:B:799:VAL:HG12	2:B:800:LYS:N	1.93	0.83
3:C:354:VAL:HG11	3:C:357:ILE:HD12	0.93	0.83
4:D:294:GLN:CD	4:D:297:LYS:HE2	2.04	0.83
5:E:432:GLY:HA2	5:E:457:LEU:HD13	1.61	0.83
10:J:32:CYS:HB3	10:J:96:ILE:HG12	1.56	0.83
10:J:79:PHE:CD2	11:K:68:ALA:CB	2.62	0.83
15:O:22:LEU:HD11	15:O:23:ASN:OD1	1.79	0.83
1:A:3194:ALA:HB1	1:A:3356:VAL:HG21	1.61	0.83
2:B:589:LEU:HD12	2:B:687:PHE:CZ	2.13	0.83
2:B:1531:ILE:HD13	2:B:1595:LEU:CD1	2.07	0.83
4:D:265:ARG:HG2	5:E:125:GLN:CG	2.02	0.83
1:A:1274:GLY:HA3	4:D:164:ASN:CG	2.04	0.83
1:A:3110:LEU:CD1	1:A:3443:LEU:HD23	2.08	0.83
2:B:349:ASN:CB	2:B:416:LEU:CG	2.57	0.83
2:B:861:ASP:HA	2:B:864:ASN:HD21	1.42	0.83
2:B:973:THR:CG2	3:C:343:ASN:HB3	2.08	0.83
3:C:2738:ILE:CB	3:C:2746:PRO:HG3	2.09	0.83
6:F:56:TRP:CZ3	6:F:74:ILE:HG13	2.14	0.83
1:A:891:PHE:HD1	1:A:972:TRP:CE3	1.97	0.82
1:A:1020:PHE:CZ	1:A:1069:TYR:CD1	2.64	0.82
2:B:762:ILE:O	2:B:766:ILE:N	2.11	0.82
3:C:2730:LEU:HD21	3:C:2744:LYS:H	1.43	0.82
4:D:569:TYR:OH	4:D:578:LYS:CG	2.27	0.82
5:E:384:LEU:HG	5:E:417:TRP:HE1	1.42	0.82
6:F:78:ARG:HD2	6:F:88:ILE:HG12	1.60	0.82
1:A:871:LEU:CD2	1:A:875:VAL:CG1	2.56	0.82
1:A:3421:SER:HB3	1:A:3716:LEU:HG	1.58	0.82
2:B:1123:GLY:CA	2:B:1197:PHE:HZ	1.91	0.82
4:D:177:ASN:HD21	13:M:60:ASN:HB3	1.41	0.82
5:E:420:THR:HG22	5:E:472:SER:HB2	1.58	0.82
14:N:89:GLN:NE2	14:N:116:ALA:H	1.76	0.82
14:N:116:ALA:CB	15:O:131:PHE:CE1	2.62	0.82
1:A:601:PRO:CB	1:A:698:GLU:CD	2.53	0.82
2:B:165:LEU:O	2:B:169:LYS:CA	2.26	0.82
2:B:888:PRO:HA	2:B:891:ILE:CG2	2.09	0.82
3:C:2723:PHE:CE1	3:C:2749:VAL:HG13	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:208:TYR:OH	9:I:19:MET:HG3	1.79	0.82
8:H:51:SER:OG	18:R:32:LYS:CB	2.27	0.82
1:A:761:LEU:HD21	1:A:874:HIS:HE1	1.41	0.82
1:A:801:ILE:HG21	1:A:862:LEU:CG	2.09	0.82
2:B:3078:ILE:CD1	2:B:3452:LEU:HD22	2.08	0.82
2:B:3230:ALA:CB	2:B:3342:ASN:OD1	2.27	0.82
3:C:95:MET:HE2	3:C:116:THR:HG22	1.60	0.82
3:C:360:PRO:HG2	3:C:361:PRO:HD3	1.61	0.82
4:D:174:GLN:HB2	13:M:62:GLY:CA	2.01	0.82
4:D:252:VAL:CG1	7:G:149:GLN:HE22	1.92	0.82
5:E:16:ASN:N	15:O:132:GLU:HG2	1.95	0.82
1:A:853:VAL:HG12	5:E:206:ASN:OD1	1.78	0.82
1:A:3106:LYS:CB	1:A:3443:LEU:HD21	2.09	0.82
2:B:445:GLY:CA	5:E:511:ARG:NH1	2.41	0.82
4:D:583:LYS:HD3	4:D:586:LYS:HA	1.61	0.82
5:E:46:ASN:HB3	12:L:88:PHE:HE1	1.40	0.82
5:E:310:LEU:CG	5:E:358:ARG:CZ	2.54	0.82
14:N:116:ALA:C	15:O:131:PHE:HE1	1.86	0.82
1:A:614:PHE:CG	1:A:644:LEU:HD22	2.15	0.82
2:B:1559:MET:CE	2:B:1577:ARG:HD3	2.10	0.82
3:C:10:LEU:HD22	3:C:65:ASN:O	1.76	0.82
3:C:2800:PRO:CB	3:C:2818:VAL:HG21	2.10	0.82
4:D:265:ARG:NE	5:E:125:GLN:HA	1.93	0.82
5:E:402:ILE:HG22	5:E:403:ILE:HG13	1.61	0.82
10:J:36:ILE:CG1	10:J:72:PHE:CE1	2.58	0.82
14:N:84:GLN:HE21	15:O:61:GLU:HB2	1.39	0.82
1:A:730:LEU:CD2	1:A:781:LEU:HD21	2.08	0.82
1:A:879:LEU:HD12	1:A:882:GLU:OE2	1.79	0.82
2:B:900:PHE:HE1	2:B:933:TRP:CH2	1.97	0.82
2:B:1139:LEU:HD21	2:B:1198:ILE:HG12	1.61	0.82
2:B:1242:GLN:O	2:B:1251:SER:N	2.13	0.82
3:C:504:ALA:CB	3:C:525:LYS:CB	2.58	0.82
7:G:119:PRO:HG2	9:I:12:ILE:CB	2.09	0.82
1:A:1396:PRO:C	1:A:1400:TYR:CB	2.53	0.82
1:A:1522:GLU:HG3	1:A:1523:PRO:CD	2.02	0.82
3:C:60:LEU:HD21	3:C:69:TRP:HZ3	1.40	0.82
3:C:99:GLY:CA	3:C:149:HIS:CE1	2.61	0.82
4:D:175:THR:HG1	13:M:61:PHE:N	1.75	0.82
1:A:5:LYS:CB	1:A:48:GLU:CA	2.57	0.82
1:A:853:VAL:CB	5:E:206:ASN:CG	2.41	0.82
1:A:3229:PRO:HB2	1:A:3233:ILE:HG23	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:655:LYS:HB2	2:B:677:LEU:HD21	1.62	0.82
2:B:1058:LYS:HG3	2:B:1166:GLU:C	2.04	0.82
2:B:1450:TRP:C	2:B:1454:GLN:HG3	2.05	0.82
3:C:132:GLU:OE2	3:C:133:PRO:HD2	1.80	0.82
4:D:367:LEU:HD11	4:D:371:THR:CB	2.09	0.82
5:E:384:LEU:CD2	5:E:417:TRP:CE2	2.63	0.82
1:A:907:ASN:O	1:A:911:TYR:HD2	1.61	0.82
1:A:3249:ILE:CD1	1:A:3274:ASP:H	1.92	0.82
1:A:3252:GLN:O	1:A:3255:GLU:CG	2.26	0.82
2:B:864:ASN:HA	2:B:947:LEU:CD1	2.09	0.82
2:B:3268:THR:HG22	2:B:3269:LEU:CD1	2.10	0.82
3:C:2793:LEU:CA	3:C:2796:PRO:CG	2.58	0.82
4:D:180:ILE:HG21	10:J:75:TYR:CE1	2.15	0.82
1:A:576:TYR:HD1	1:A:620:PRO:O	1.63	0.81
2:B:579:PHE:CE1	5:E:369:PRO:HG2	2.14	0.81
2:B:789:LYS:HB3	2:B:839:LEU:CD1	2.10	0.81
2:B:3153:LEU:HD13	2:B:3707:LEU:HD11	0.84	0.81
3:C:165:GLY:C	3:C:174:PHE:HZ	1.87	0.81
3:C:2720:PRO:C	3:C:2798:PHE:HZ	1.87	0.81
4:D:92:TYR:CD1	13:M:29:LYS:HB3	2.14	0.81
14:N:89:GLN:HE21	14:N:94:ASP:CG	1.88	0.81
1:A:3212:VAL:HG23	1:A:3338:ALA:CB	2.11	0.81
2:B:444:LEU:HA	5:E:515:LYS:HG3	0.85	0.81
2:B:520:ARG:NH1	2:B:550:MET:CG	2.43	0.81
2:B:762:ILE:HG22	2:B:766:ILE:CG1	2.09	0.81
2:B:899:LEU:CD1	2:B:900:PHE:HD1	1.93	0.81
2:B:1612:LEU:CD1	2:B:1637:CYS:SG	2.67	0.81
4:D:81:GLN:OE1	15:O:110:TYR:CE2	2.31	0.81
5:E:68:THR:HB	8:H:70:THR:CG2	2.08	0.81
12:L:84:CYS:HB3	13:M:56:ILE:HA	1.62	0.81
14:N:8:TYR:CE1	14:N:13:VAL:HG21	2.15	0.81
1:A:1263:TYR:CE2	1:A:1280:TYR:O	2.34	0.81
1:A:3260:LYS:NZ	1:A:3315:ASP:HB3	1.94	0.81
1:A:3345:LYS:N	1:A:3345:LYS:HE3	1.94	0.81
2:B:1514:VAL:HG11	2:B:1570:VAL:HA	1.63	0.81
3:C:196:PRO:N	3:C:239:TRP:CZ2	2.46	0.81
3:C:2365:GLY:HA2	19:C:4703:ADP:H3'	1.62	0.81
3:C:2721:GLU:CG	3:C:2803:MET:HE2	2.10	0.81
3:C:2743:ASN:HD22	3:C:2785:VAL:HG12	0.74	0.81
5:E:112:LEU:CD2	6:F:97:MET:CG	2.57	0.81
5:E:310:LEU:HD11	5:E:358:ARG:CZ	2.08	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:60:ILE:CG1	9:I:85:TYR:HB2	2.08	0.81
10:J:94:ARG:HB3	10:J:109:GLN:HB3	1.59	0.81
2:B:913:PHE:HE2	2:B:1078:ILE:HD13	1.44	0.81
3:C:261:ILE:CG2	3:C:385:ASP:CB	2.58	0.81
1:A:760:ASP:OD2	1:A:764:ARG:CD	2.28	0.81
1:A:853:VAL:CG1	5:E:206:ASN:OD1	2.27	0.81
4:D:595:PHE:HD1	4:D:602:LEU:CD2	1.92	0.81
6:F:35:ARG:NH2	6:F:41:SER:HB2	1.94	0.81
6:F:81:THR:CG2	7:G:114:VAL:CG2	2.42	0.81
14:N:72:ILE:HA	15:O:97:ILE:HG12	1.62	0.81
1:A:841:ILE:CD1	1:A:961:ALA:HB1	2.11	0.81
1:A:1101:HIS:HB2	1:A:1163:LEU:HD11	1.62	0.81
2:B:551:TYR:HD2	2:B:622:VAL:HG11	1.43	0.81
2:B:679:ARG:CB	5:E:186:PHE:CZ	2.64	0.81
2:B:1102:LEU:HA	2:B:1105:GLN:HB2	1.63	0.81
2:B:3264:ASN:CG	2:B:3303:GLU:OE1	2.24	0.81
4:D:283:LEU:HB2	4:D:582:GLN:HG3	1.60	0.81
6:F:56:TRP:CZ3	6:F:74:ILE:HD11	2.15	0.81
1:A:1101:HIS:CB	1:A:1163:LEU:HD11	2.10	0.81
1:A:3236:ILE:HG23	1:A:3333:LEU:CA	2.10	0.81
2:B:57:ASN:CA	2:B:70:LYS:O	2.25	0.81
2:B:864:ASN:HB2	2:B:947:LEU:HD23	0.83	0.81
2:B:1528:LEU:CD2	2:B:1591:CYS:HB2	2.10	0.81
5:E:145:LEU:HD22	5:E:494:LEU:HG	1.63	0.81
5:E:420:THR:CG2	5:E:472:SER:HB2	2.09	0.81
1:A:594:PRO:HB3	1:A:609:TRP:CE3	2.16	0.81
2:B:744:MET:HE1	2:B:772:ILE:HG23	1.62	0.81
2:B:993:TYR:OH	2:B:1067:ILE:CG2	2.28	0.81
2:B:3301:ASN:CG	2:B:3351:LYS:HZ1	1.89	0.81
3:C:2585:PHE:HB2	3:C:2932:SER:HB2	1.62	0.81
4:D:105:MET:SD	14:N:48:GLN:HB2	2.21	0.81
5:E:174:PRO:HD3	5:E:466:GLY:HA2	1.62	0.81
10:J:95:PHE:CZ	10:J:106:LEU:CD1	2.63	0.81
15:O:30:TYR:H	15:O:31:PRO:CD	1.94	0.81
1:A:801:ILE:HD12	1:A:862:LEU:HD23	1.63	0.81
1:A:1013:VAL:HA	1:A:1016:PHE:HE1	1.45	0.81
1:A:1132:LEU:CA	1:A:1272:LEU:HD11	2.10	0.81
3:C:2719:VAL:HG13	3:C:2720:PRO:CD	2.08	0.81
1:A:473:LEU:C	1:A:478:LEU:CB	2.54	0.81
1:A:688:PHE:CZ	1:A:693:MET:SD	2.74	0.81
1:A:944:LEU:HD11	1:A:1013:VAL:CG1	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:91:TYR:CZ	13:M:80:LEU:HB2	2.16	0.81
4:D:105:MET:CE	14:N:48:GLN:N	2.41	0.81
5:E:46:ASN:C	12:L:88:PHE:CE1	2.59	0.81
8:H:62:GLY:HA3	9:I:83:TYR:HA	1.61	0.81
8:H:64:ASN:HB2	9:I:81:GLU:CB	2.06	0.81
1:A:155:GLY:CA	2:B:167:GLN:C	2.45	0.80
1:A:1013:VAL:HG13	1:A:1076:LEU:HD13	1.62	0.80
1:A:1396:PRO:O	1:A:1400:TYR:CB	2.30	0.80
1:A:3313:SER:HA	1:A:3317:PHE:HD2	1.46	0.80
2:B:591:TRP:CD1	5:E:411:TYR:HH	1.98	0.80
2:B:3136:TYR:HE1	2:B:3436:ASN:HD22	1.27	0.80
3:C:143:PRO:CD	3:C:187:TRP:NE1	2.44	0.80
3:C:261:ILE:HG12	3:C:360:PRO:HB3	1.62	0.80
3:C:321:ARG:HA	3:C:342:ALA:HB2	1.61	0.80
3:C:2592:LYS:HD2	3:C:2928:VAL:HG22	1.62	0.80
4:D:148:GLU:CG	4:D:149:PRO:HD2	2.04	0.80
4:D:184:GLY:HA3	11:K:69:TYR:CD1	2.15	0.80
2:B:718:ILE:HD13	2:B:770:LYS:HA	1.64	0.80
4:D:212:ILE:CG1	9:I:19:MET:HE1	2.11	0.80
5:E:392:LYS:HB2	5:E:394:TRP:CH2	2.17	0.80
1:A:1020:PHE:CA	1:A:1023:PHE:CE2	2.60	0.80
1:A:3106:LYS:HG2	1:A:3443:LEU:CD2	1.91	0.80
2:B:448:LYS:HE2	2:B:513:ASP:OD2	1.81	0.80
4:D:80:PRO:HB3	15:O:105:VAL:HG13	1.62	0.80
4:D:195:ILE:CD1	9:I:94:LEU:CD2	2.59	0.80
4:D:613:LEU:O	4:D:613:LEU:HD12	1.81	0.80
1:A:121:GLY:HA3	2:B:105:ALA:O	1.82	0.80
1:A:1429:ILE:HG22	1:A:1490:PHE:CZ	2.16	0.80
2:B:598:ARG:CB	5:E:367:LEU:HD13	2.12	0.80
2:B:794:LEU:CB	2:B:797:PHE:HE2	1.94	0.80
2:B:1378:LEU:CB	2:B:1424:GLU:HG2	2.11	0.80
3:C:2793:LEU:HA	3:C:2796:PRO:CG	2.11	0.80
4:D:201:GLN:HE22	9:I:102:ASN:N	1.77	0.80
4:D:208:TYR:CE1	9:I:22:LYS:HB2	2.17	0.80
5:E:288:VAL:HG21	5:E:335:ILE:HD13	1.64	0.80
14:N:72:ILE:HG12	15:O:97:ILE:HG21	1.60	0.80
15:O:30:TYR:OH	15:O:126:VAL:CG1	2.29	0.80
1:A:1012:LYS:NZ	1:A:1072:GLY:CA	2.44	0.80
1:A:1012:LYS:CB	1:A:1071:ILE:CD1	2.58	0.80
1:A:1126:VAL:HG13	1:A:1131:SER:O	1.81	0.80
1:A:3103:TYR:CE2	1:A:3444:VAL:CG2	2.42	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:409:SER:HA	2:B:413:PHE:CD1	2.12	0.80
3:C:2807:SER:OG	3:C:2810:ALA:CB	2.29	0.80
4:D:80:PRO:HG3	15:O:103:TRP:HE1	0.76	0.80
4:D:111:MET:CE	15:O:90:ILE:HB	2.10	0.80
4:D:528:TRP:NE1	4:D:535:GLN:CB	2.45	0.80
5:E:310:LEU:CD2	5:E:358:ARG:HH21	1.88	0.80
6:F:26:PHE:CD1	6:F:49:ALA:HB2	2.16	0.80
6:F:26:PHE:CE1	6:F:49:ALA:HA	2.16	0.80
1:A:397:ILE:O	1:A:489:LYS:CB	2.30	0.80
1:A:611:ARG:NH2	1:A:705:GLN:HB2	1.96	0.80
1:A:853:VAL:HG11	5:E:206:ASN:CG	2.04	0.80
2:B:861:ASP:CB	3:C:170:GLN:HB3	2.11	0.80
2:B:963:PHE:CE2	3:C:103:THR:C	2.59	0.80
4:D:91:TYR:CZ	13:M:80:LEU:CD1	2.63	0.80
4:D:285:PRO:HG3	4:D:584:ILE:CG2	2.12	0.80
5:E:22:ASP:HB2	14:N:91:THR:H	1.46	0.80
10:J:61:ALA:CA	10:J:80:PHE:HE2	1.93	0.80
1:A:723:PHE:HD1	1:A:772:TRP:HZ2	1.29	0.80
4:D:367:LEU:HD11	4:D:371:THR:CG2	2.11	0.80
8:H:60:ILE:CD1	9:I:78:ILE:HG12	2.11	0.80
3:C:29:VAL:HG22	3:C:92:ALA:O	1.81	0.80
3:C:2795:MET:N	3:C:2796:PRO:HD3	1.97	0.80
3:C:2799:THR:O	3:C:2803:MET:HG2	1.81	0.80
4:D:184:GLY:HA3	11:K:69:TYR:HD1	1.44	0.80
4:D:208:TYR:CZ	9:I:100:ASN:HB2	2.16	0.80
1:A:3046:PHE:CE2	1:A:3104:ILE:HD11	2.17	0.80
2:B:861:ASP:OD2	3:C:170:GLN:CG	2.30	0.80
2:B:963:PHE:HE2	3:C:103:THR:C	1.90	0.80
2:B:1466:THR:HB	2:B:1522:GLN:OE1	1.82	0.80
3:C:2721:GLU:OE2	3:C:2798:PHE:CE1	2.33	0.80
4:D:113:GLY:CA	15:O:92:GLY:O	2.29	0.80
5:E:16:ASN:N	15:O:132:GLU:CG	2.44	0.80
14:N:116:ALA:C	15:O:131:PHE:CE1	2.59	0.80
2:B:603:ILE:HD11	2:B:626:TYR:CD1	2.18	0.80
2:B:794:LEU:HD11	2:B:867:VAL:HA	1.63	0.80
3:C:176:ASP:CG	3:C:189:ARG:HH11	1.90	0.80
3:C:2726:THR:HA	3:C:2729:LEU:HD11	1.57	0.80
4:D:265:ARG:CD	5:E:125:GLN:HA	2.12	0.80
5:E:80:TRP:CE3	5:E:81:PRO:HD2	2.16	0.80
6:F:81:THR:HG21	7:G:114:VAL:HG23	1.61	0.80
1:A:1126:VAL:HG21	1:A:1135:VAL:CG2	2.10	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:791:HIS:HE1	2:B:866:ILE:HD13	1.42	0.79
2:B:963:PHE:HE1	3:C:83:CYS:HG	1.30	0.79
2:B:1119:LYS:HB3	2:B:1138:LYS:HZ2	1.43	0.79
2:B:1467:PHE:CZ	2:B:1563:VAL:HG11	2.17	0.79
3:C:2698:LEU:HD21	3:C:2768:LEU:HB3	1.64	0.79
4:D:378:ARG:HD3	5:E:137:THR:O	1.81	0.79
5:E:20:PHE:CZ	14:N:89:GLN:HA	2.16	0.79
6:F:91:GLN:HG2	6:F:96:THR:HG21	1.55	0.79
12:L:42:ILE:HD12	12:L:98:LEU:HD12	1.64	0.79
2:B:1458:PHE:HD1	2:B:1560:MET:HE3	1.41	0.79
3:C:2607:LEU:N	3:C:2910:TRP:HZ3	1.78	0.79
6:F:50:ALA:CB	8:H:83:GLN:CG	2.60	0.79
1:A:1430:ARG:CG	1:A:1490:PHE:CD2	2.65	0.79
2:B:10:PRO:HA	2:B:25:GLN:O	1.81	0.79
2:B:1127:ASN:HB3	2:B:1128:PRO:HD2	1.57	0.79
2:B:1456:PHE:CE1	2:B:1458:PHE:CZ	2.70	0.79
3:C:2676:GLN:CB	3:C:2841:THR:HG23	2.12	0.79
5:E:517:LYS:NZ	5:E:517:LYS:HB3	1.96	0.79
6:F:51:LEU:CD2	7:G:116:ASP:HB2	2.11	0.79
15:O:22:LEU:CD1	15:O:23:ASN:ND2	2.45	0.79
1:A:728:ASN:HD22	4:D:396:THR:HG22	1.47	0.79
3:C:2711:SER:HB2	3:C:2755:LEU:HD21	1.64	0.79
3:C:2745:LYS:HD2	3:C:2749:VAL:CB	2.10	0.79
4:D:367:LEU:HD12	4:D:368:TYR:O	1.82	0.79
8:H:61:VAL:O	9:I:84:ALA:N	2.15	0.79
1:A:1013:VAL:HA	1:A:1016:PHE:CE1	2.18	0.79
1:A:3347:LYS:O	1:A:3351:PRO:HD3	1.82	0.79
2:B:801:ILE:CG1	2:B:878:ALA:CA	2.60	0.79
2:B:957:GLN:HA	3:C:220:TRP:CZ3	2.16	0.79
2:B:2334:TYR:CA	20:B:5601:ATP:C2	2.66	0.79
3:C:10:LEU:HD23	3:C:65:ASN:C	2.06	0.79
3:C:99:GLY:HA3	3:C:149:HIS:NE2	1.97	0.79
4:D:105:MET:HE1	14:N:48:GLN:CA	2.12	0.79
5:E:164:VAL:HG22	5:E:181:TYR:CD1	2.15	0.79
1:A:598:ARG:NH1	4:D:546:VAL:HG13	1.97	0.79
1:A:937:LEU:CD1	1:A:1081:ILE:HG12	2.12	0.79
2:B:1208:LYS:HE3	2:B:1208:LYS:CA	2.12	0.79
3:C:2673:VAL:CA	3:C:2841:THR:HA	2.11	0.79
6:F:40:ILE:HB	6:F:44:LYS:HB2	1.64	0.79
2:B:444:LEU:HD22	5:E:515:LYS:HE2	1.62	0.79
2:B:595:LEU:CD2	5:E:389:TRP:CZ2	2.66	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:353:LEU:HG	4:D:363:LEU:HD21	1.64	0.79
4:D:414:PHE:HD2	4:D:426:TRP:HD1	1.23	0.79
4:D:567:GLN:CD	4:D:578:LYS:CD	2.55	0.79
4:D:590:LEU:CD2	4:D:604:VAL:HG11	2.12	0.79
5:E:48:ILE:HG13	12:L:23:PHE:HE2	1.44	0.79
5:E:385:SER:OG	5:E:394:TRP:CZ3	2.30	0.79
14:N:18:ASP:OD1	14:N:101:TYR:OH	2.00	0.79
1:A:1504:VAL:HG13	1:A:1565:CYS:SG	2.23	0.79
1:A:1642:ALA:HB2	1:A:1652:GLN:HB2	1.61	0.79
1:A:3345:LYS:HE3	1:A:3345:LYS:CA	2.12	0.79
2:B:429:LEU:HG	2:B:489:PHE:HZ	1.43	0.79
2:B:1212:ILE:HG22	2:B:1213:PRO:CD	2.13	0.79
4:D:567:GLN:CG	4:D:578:LYS:HD2	2.12	0.79
5:E:112:LEU:O	5:E:116:VAL:HG23	1.83	0.79
2:B:60:ASN:CB	2:B:81:ILE:CB	2.61	0.79
2:B:791:HIS:CE1	2:B:866:ILE:CD1	2.64	0.79
2:B:899:LEU:HD11	2:B:900:PHE:HD1	1.48	0.79
2:B:1238:LYS:NZ	2:B:1308:LEU:HA	1.98	0.79
5:E:266:THR:CG2	5:E:320:THR:HA	2.09	0.79
12:L:86:LEU:HD12	13:M:54:ASN:CB	2.13	0.79
15:O:38:ILE:HG22	15:O:67:LEU:HD11	1.63	0.79
1:A:997:LYS:HD3	18:R:149:LEU:CB	2.12	0.79
1:A:1597:LYS:NZ	1:A:1962:ILE:CD1	2.45	0.79
1:A:3298:ILE:HA	1:A:3343:HIS:HE1	1.46	0.79
1:A:3446:ASN:HA	1:A:3488:LEU:CD2	2.13	0.79
2:B:429:LEU:HD11	2:B:489:PHE:CZ	2.14	0.79
2:B:679:ARG:HA	5:E:186:PHE:HZ	1.48	0.79
2:B:1107:ARG:HH21	2:B:1172:LYS:HE2	1.47	0.79
2:B:3178:VAL:HG11	2:B:3395:LEU:HD21	0.80	0.79
4:D:417:ILE:HD12	4:D:474:VAL:HG23	1.64	0.79
8:H:56:THR:CG2	9:I:88:THR:OG1	2.29	0.79
1:A:944:LEU:CD1	1:A:1017:LEU:HD11	2.11	0.78
1:A:1121:LYS:CD	1:A:1138:THR:HG22	2.12	0.78
2:B:444:LEU:HA	5:E:515:LYS:CD	2.13	0.78
2:B:518:TYR:CE1	5:E:407:TYR:CE2	2.60	0.78
2:B:3139:GLY:HA2	2:B:3695:LEU:HD22	1.66	0.78
3:C:99:GLY:CA	3:C:149:HIS:HE1	1.95	0.78
3:C:2708:GLN:CD	3:C:2813:ILE:CD1	2.57	0.78
4:D:83:PRO:HG3	10:J:92:LYS:HD2	1.64	0.78
2:B:794:LEU:C	2:B:797:PHE:CD2	2.61	0.78
2:B:957:GLN:CD	3:C:164:HIS:NE2	2.40	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1237:ARG:CD	2:B:1260:ALA:HA	2.12	0.78
2:B:1573:CYS:HA	2:B:1577:ARG:HD2	1.64	0.78
3:C:2721:GLU:HB2	3:C:2803:MET:HE2	0.79	0.78
1:A:670:LEU:HD21	1:A:772:TRP:CD1	2.17	0.78
1:A:1088:TRP:O	1:A:1092:TRP:HD1	1.66	0.78
2:B:555:LEU:HD21	2:B:625:LEU:HD23	1.64	0.78
2:B:1058:LYS:CB	2:B:1166:GLU:CB	2.59	0.78
3:C:2673:VAL:HA	3:C:2841:THR:HA	1.63	0.78
4:D:262:HIS:HA	5:E:125:GLN:NE2	1.99	0.78
5:E:117:GLU:CB	6:F:17:LEU:HD11	2.13	0.78
6:F:84:SER:CB	6:F:106:ALA:HB2	2.13	0.78
12:L:9:GLY:O	12:L:13:GLU:CG	2.31	0.78
1:A:3257:VAL:HG11	1:A:3266:VAL:HA	1.45	0.78
2:B:555:LEU:CG	2:B:625:LEU:CD2	2.50	0.78
3:C:354:VAL:HG22	3:C:357:ILE:H	1.49	0.78
4:D:201:GLN:NE2	9:I:102:ASN:CB	2.46	0.78
4:D:585:VAL:CG1	4:D:588:PRO:HD3	2.11	0.78
6:F:50:ALA:HB2	8:H:83:GLN:HG3	1.65	0.78
7:G:64:LEU:HB3	7:G:76:TYR:CE2	2.18	0.78
9:I:51:ALA:CB	9:I:52:PRO:CD	2.62	0.78
15:O:30:TYR:N	15:O:31:PRO:CD	2.45	0.78
1:A:590:GLN:HB3	1:A:609:TRP:CZ2	2.17	0.78
1:A:670:LEU:CA	1:A:692:ILE:CD1	2.60	0.78
1:A:1126:VAL:CB	1:A:1131:SER:OG	2.31	0.78
1:A:3297:SER:O	1:A:3343:HIS:CE1	2.36	0.78
2:B:1378:LEU:CA	2:B:1424:GLU:HG2	2.12	0.78
2:B:1492:LYS:HE2	2:B:3606:GLN:OE1	1.79	0.78
3:C:62:LEU:HD12	3:C:62:LEU:O	1.83	0.78
3:C:208:MET:HB2	3:C:296:ILE:HD13	1.65	0.78
3:C:2734:PHE:HE2	3:C:2767:LYS:CE	1.96	0.78
4:D:386:TYR:CD1	4:D:433:LEU:HD11	2.18	0.78
4:D:395:HIS:CD2	4:D:399:VAL:CG1	2.65	0.78
7:G:107:THR:HG21	7:G:137:VAL:HG11	1.65	0.78
11:K:18:MET:HE3	11:K:18:MET:HA	1.66	0.78
1:A:751:LEU:HD22	1:A:866:ILE:HD13	1.64	0.78
1:A:1396:PRO:CB	1:A:1400:TYR:CB	2.62	0.78
2:B:875:ILE:HG23	2:B:937:PHE:HB3	1.64	0.78
2:B:957:GLN:HG2	3:C:164:HIS:NE2	1.94	0.78
3:C:253:LEU:HD12	3:C:253:LEU:O	1.83	0.78
5:E:59:HIS:CD2	10:J:90:HIS:NE2	2.51	0.78
5:E:80:TRP:O	8:H:80:TYR:CE1	2.36	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:58:SER:OG	7:G:62:ASP:HB2	1.82	0.78
10:J:77:HIS:CG	11:K:70:VAL:CG2	2.67	0.78
1:A:3446:ASN:HA	1:A:3488:LEU:HD21	1.64	0.78
3:C:2721:GLU:HA	3:C:2798:PHE:CE1	2.18	0.78
4:D:517:ILE:HD12	4:D:527:ILE:CG1	2.12	0.78
16:P:63:ARG:CB	16:P:119:PRO:CB	2.61	0.78
1:A:113:GLY:O	1:A:116:ASN:N	2.17	0.78
1:A:601:PRO:CG	1:A:698:GLU:HG2	2.12	0.78
1:A:3117:PHE:CD2	1:A:3429:TRP:CE3	2.72	0.78
2:B:99:LEU:O	2:B:101:ASN:N	2.17	0.78
2:B:409:SER:C	2:B:413:PHE:HB2	2.09	0.78
2:B:730:LEU:CD1	2:B:787:LEU:HD12	2.13	0.78
2:B:736:LEU:HA	2:B:855:SER:CB	2.14	0.78
3:C:2701:ILE:CD1	3:C:2704:LYS:HG3	2.13	0.78
5:E:259:ASN:HD22	5:E:299:GLY:N	1.81	0.78
1:A:3215:ILE:HG23	1:A:3219:ASP:OD2	1.83	0.78
1:A:3251:ILE:HG12	17:Q:62:ILE:H	1.49	0.78
2:B:533:ARG:HG2	2:B:534:PRO:CD	2.14	0.78
2:B:1081:GLN:HB3	2:B:1082:PRO:HD3	1.66	0.78
2:B:1234:GLU:OE1	2:B:1305:LEU:CA	2.26	0.78
3:C:225:GLN:OE1	3:C:225:GLN:N	2.14	0.78
4:D:175:THR:OG1	13:M:60:ASN:C	2.27	0.78
5:E:527:GLU:HA	5:E:530:LYS:HE3	1.63	0.78
12:L:77:ILE:HA	13:M:63:SER:CB	2.13	0.78
18:R:82:ALA:HA	18:R:83:ASN:N	1.98	0.78
1:A:613:LEU:CD2	4:D:523:TRP:CH2	2.66	0.78
1:A:737:TYR:CD1	1:A:759:LEU:HD23	2.19	0.78
1:A:1031:ILE:HA	1:A:1092:TRP:CZ3	2.18	0.78
1:A:1274:GLY:HA3	4:D:164:ASN:CA	2.14	0.78
1:A:3293:PHE:CZ	1:A:3335:TRP:HH2	2.02	0.78
2:B:888:PRO:O	2:B:891:ILE:CG2	2.32	0.78
2:B:1139:LEU:HD21	2:B:1198:ILE:CD1	2.13	0.78
2:B:3203:ALA:HB2	2:B:3370:LYS:CB	2.12	0.78
2:B:3301:ASN:HB3	2:B:3351:LYS:HZ1	1.47	0.78
4:D:68:GLU:HG2	5:E:12:LYS:HA	1.66	0.78
4:D:364:ALA:HB1	4:D:414:PHE:HE1	1.47	0.78
5:E:20:PHE:HE2	15:O:80:LYS:CD	1.95	0.78
10:J:19:LYS:HG2	10:J:28:TRP:CE3	2.18	0.78
1:A:751:LEU:CD2	1:A:866:ILE:HD13	2.14	0.77
1:A:936:GLN:HA	1:A:1081:ILE:CG1	2.08	0.77
1:A:993:LYS:CE	18:R:131:ILE:CB	2.60	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:679:ARG:O	2:B:683:GLU:CG	2.30	0.77
2:B:679:ARG:HB3	5:E:186:PHE:CZ	2.20	0.77
2:B:1117:ILE:O	2:B:1120:THR:OG1	2.00	0.77
2:B:1237:ARG:HD3	2:B:1260:ALA:CA	2.13	0.77
3:C:2666:CYS:CB	3:C:2848:THR:HA	2.11	0.77
4:D:66:LEU:HD22	4:D:66:LEU:H	1.48	0.77
4:D:297:LYS:HZ1	4:D:328:LEU:HB2	1.44	0.77
4:D:386:TYR:CG	4:D:433:LEU:HD11	2.18	0.77
2:B:741:ILE:HG22	2:B:745:GLU:OE2	1.84	0.77
2:B:1139:LEU:CD2	2:B:1198:ILE:CG1	2.61	0.77
2:B:1139:LEU:CD2	2:B:1198:ILE:HG12	2.14	0.77
2:B:2190:LYS:HE3	20:B:5601:ATP:O3G	1.83	0.77
2:B:3261:ILE:HG22	2:B:3306:ILE:CG2	2.13	0.77
3:C:25:THR:HG21	3:C:87:SER:HB2	1.65	0.77
3:C:159:TYR:HB3	3:C:177:LEU:HD11	1.66	0.77
4:D:299:VAL:HG11	4:D:605:GLY:HA3	1.67	0.77
5:E:48:ILE:HB	12:L:88:PHE:CE2	2.19	0.77
6:F:26:PHE:CE1	6:F:49:ALA:CA	2.67	0.77
8:H:66:GLY:N	9:I:56:ILE:HG21	1.99	0.77
1:A:1140:GLU:OE2	4:D:165:LYS:HE3	1.83	0.77
2:B:1531:ILE:HD12	2:B:1595:LEU:CD1	2.13	0.77
3:C:29:VAL:CG1	3:C:95:MET:SD	2.72	0.77
3:C:2690:LEU:CB	3:C:2826:VAL:CG2	2.60	0.77
4:D:640:LYS:HE2	4:D:640:LYS:HA	1.66	0.77
5:E:23:THR:HG22	14:N:88:TYR:HD1	1.48	0.77
5:E:517:LYS:HB3	5:E:517:LYS:HZ2	1.48	0.77
2:B:1444:LEU:O	2:B:1448:GLU:HG3	1.85	0.77
4:D:201:GLN:CD	9:I:102:ASN:CB	2.56	0.77
4:D:553:TYR:HE1	4:D:595:PHE:CZ	2.02	0.77
8:H:88:LEU:O	8:H:88:LEU:HD12	1.82	0.77
1:A:1132:LEU:O	1:A:1272:LEU:CD1	2.29	0.77
2:B:1129:ALA:HA	2:B:1132:GLU:CD	2.09	0.77
2:B:1607:PRO:HB2	2:B:1946:SER:OG	1.83	0.77
2:B:2333:PRO:CB	20:B:5601:ATP:C6	2.66	0.77
2:B:3118:TYR:OH	2:B:3452:LEU:HB2	1.85	0.77
2:B:3133:ILE:HG12	2:B:3440:LEU:HD12	1.64	0.77
3:C:53:PRO:HG2	3:C:81:PRO:HB3	1.65	0.77
1:A:1013:VAL:HG13	1:A:1076:LEU:HD11	1.65	0.77
1:A:1048:TYR:HD1	1:A:1100:LEU:HD12	1.50	0.77
1:A:2872:GLY:HA2	19:A:4901:ADP:O2A	1.85	0.77
2:B:356:GLN:CB	2:B:419:PHE:CE1	2.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:581:ASN:OD1	2:B:581:ASN:O	2.01	0.77
2:B:745:GLU:O	2:B:749:LYS:HG3	1.85	0.77
2:B:1109:THR:C	2:B:1113:LEU:HG	2.08	0.77
2:B:3118:TYR:HD2	2:B:3455:SER:OG	1.57	0.77
3:C:218:GLY:HA3	3:C:253:LEU:HD21	1.66	0.77
3:C:2725:ALA:O	3:C:2729:LEU:CG	2.31	0.77
5:E:42:GLN:HE22	12:L:91:ASN:ND2	1.82	0.77
10:J:38:GLU:CG	15:O:29:PHE:CZ	2.67	0.77
2:B:578:LEU:H	2:B:578:LEU:HD12	1.48	0.77
2:B:1068:LYS:CB	2:B:1084:LYS:HE2	2.15	0.77
2:B:1455:VAL:HG12	2:B:1456:PHE:N	2.00	0.77
2:B:3119:LYS:NZ	2:B:3119:LYS:HB3	1.99	0.77
2:B:3300:GLU:CD	2:B:3354:LYS:NZ	2.42	0.77
3:C:53:PRO:CG	3:C:81:PRO:CB	2.62	0.77
3:C:111:THR:HG21	3:C:187:TRP:CZ3	2.19	0.77
3:C:2745:LYS:HE3	3:C:2749:VAL:HG11	0.84	0.77
1:A:552:PHE:HA	1:A:568:ARG:HH12	1.47	0.77
1:A:847:PHE:HZ	1:A:851:LYS:NZ	1.82	0.77
2:B:1058:LYS:HG3	2:B:1166:GLU:O	1.83	0.77
3:C:113:ILE:HD13	3:C:185:PHE:CZ	2.20	0.77
4:D:426:TRP:CZ3	4:D:435:PRO:HB3	2.19	0.77
6:F:48:ILE:HD11	6:F:98:LEU:HD22	1.56	0.77
8:H:12:LYS:HG2	8:H:80:TYR:HE2	1.45	0.77
1:A:1458:MET:SD	1:A:1548:TRP:CD1	2.78	0.77
2:B:1604:LYS:O	2:B:1945:GLN:OE1	2.02	0.77
3:C:85:HIS:H	3:C:85:HIS:CD2	2.02	0.77
3:C:3970:LEU:HD23	3:C:3990:LEU:HD21	1.66	0.77
6:F:26:PHE:CD1	6:F:49:ALA:CB	2.67	0.77
1:A:3251:ILE:N	17:Q:60:ASN:H	1.83	0.77
2:B:718:ILE:CD1	2:B:773:VAL:HB	2.12	0.77
2:B:1531:ILE:HG21	2:B:1595:LEU:CD1	2.14	0.77
3:C:180:LEU:HD22	3:C:187:TRP:CE3	2.20	0.77
3:C:2721:GLU:HA	3:C:2798:PHE:CZ	2.20	0.77
4:D:116:ILE:HD11	5:E:43:ARG:NH1	2.00	0.77
4:D:236:MET:CB	7:G:143:PHE:CZ	2.68	0.77
4:D:251:MET:CG	7:G:136:MET:CE	2.63	0.77
1:A:598:ARG:NH1	4:D:546:VAL:HG12	2.00	0.76
1:A:971:ASN:CB	1:A:983:ALA:HA	2.15	0.76
2:B:53:ILE:CB	2:B:90:ALA:HB2	2.16	0.76
2:B:81:ILE:C	2:B:110:VAL:HA	2.09	0.76
2:B:501:ARG:NH2	4:D:491:GLN:CD	2.43	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:165:GLY:N	3:C:174:PHE:CE2	2.50	0.76
4:D:81:GLN:OE1	15:O:110:TYR:CZ	2.37	0.76
4:D:184:GLY:HA2	11:K:69:TYR:HD1	1.48	0.76
10:J:35:ASP:HB2	15:O:32:SER:HB3	1.65	0.76
1:A:332:PRO:CA	1:A:380:ARG:CB	2.62	0.76
1:A:550:HIS:CB	4:D:654:ASN:O	2.33	0.76
1:A:933:VAL:HG22	1:A:951:ILE:HD11	1.68	0.76
1:A:1031:ILE:HA	1:A:1092:TRP:CH2	2.21	0.76
1:A:1126:VAL:HG22	1:A:1131:SER:OG	1.83	0.76
1:A:1136:MET:HE2	1:A:1136:MET:CA	2.14	0.76
1:A:3099:TYR:CD1	1:A:3447:VAL:HG12	2.21	0.76
1:A:3236:ILE:HG21	1:A:3333:LEU:N	2.00	0.76
1:A:3257:VAL:CG2	1:A:3266:VAL:HG12	1.90	0.76
2:B:676:SER:O	2:B:679:ARG:HG2	1.84	0.76
2:B:993:TYR:OH	2:B:1067:ILE:HG23	1.84	0.76
3:C:2800:PRO:HA	3:C:2814:CYS:HB3	1.65	0.76
5:E:43:ARG:O	12:L:90:ALA:CB	2.31	0.76
5:E:263:GLU:HB3	5:E:264:PRO:CD	2.12	0.76
8:H:46:LYS:HZ1	9:I:86:ASP:C	1.88	0.76
15:O:22:LEU:HD11	15:O:23:ASN:CG	2.10	0.76
1:A:674:LEU:HD12	1:A:675:ILE:HG23	1.65	0.76
1:A:801:ILE:CB	1:A:862:LEU:CD2	2.58	0.76
2:B:1139:LEU:HD21	2:B:1198:ILE:HD11	1.68	0.76
3:C:250:LYS:HG3	3:C:273:VAL:CG1	2.15	0.76
3:C:1014:ILE:HD11	3:C:1037:LEU:HD12	1.67	0.76
5:E:15:ASN:C	15:O:132:GLU:HG2	2.10	0.76
5:E:366:HIS:HE1	5:E:394:TRP:HH2	1.32	0.76
11:K:77:PHE:HD1	11:K:90:TYR:CB	1.95	0.76
1:A:723:PHE:CD1	1:A:772:TRP:HZ2	2.01	0.76
2:B:444:LEU:CD1	2:B:527:PHE:CE1	2.56	0.76
2:B:1607:PRO:HB3	2:B:1946:SER:CB	2.06	0.76
2:B:3231:VAL:CG2	2:B:3342:ASN:HB3	2.15	0.76
3:C:2013:GLY:HA2	19:C:4702:ADP:O2A	1.86	0.76
3:C:2735:ASN:HB3	3:C:2757:LEU:CA	2.10	0.76
4:D:70:MET:HE2	5:E:13:GLU:HG2	1.66	0.76
1:A:53:ILE:HA	1:A:54:PHE:N	2.00	0.76
1:A:806:ILE:HD11	1:A:890:TYR:CD2	2.20	0.76
4:D:238:SER:O	4:D:239:THR:N	2.17	0.76
4:D:248:MET:CE	7:G:147:VAL:CG2	2.62	0.76
4:D:367:LEU:HD21	4:D:371:THR:OG1	1.84	0.76
8:H:57:TRP:CZ3	8:H:88:LEU:HD13	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:75:GLN:HB3	15:O:93:GLN:HG3	0.81	0.76
1:A:1030:SER:O	1:A:1092:TRP:CZ2	2.38	0.76
1:A:1433:LEU:HD11	1:A:1490:PHE:CD1	2.19	0.76
1:A:1595:LYS:HD2	1:A:1681:GLU:OE1	1.86	0.76
2:B:900:PHE:CZ	2:B:933:TRP:HH2	2.03	0.76
2:B:1395:LEU:HA	2:B:1430:ILE:CD1	2.16	0.76
2:B:1511:VAL:CG2	2:B:1570:VAL:CG1	2.64	0.76
2:B:1610:TYR:CD2	2:B:1942:GLY:HA2	2.20	0.76
3:C:379:LYS:HA	3:C:419:GLU:HA	1.66	0.76
3:C:1333:VAL:HG12	3:C:1340:GLN:HE21	1.51	0.76
4:D:177:ASN:ND2	13:M:60:ASN:HB3	1.95	0.76
4:D:247:ILE:HD13	5:E:129:LEU:HD22	1.67	0.76
5:E:50:LEU:HD21	12:L:23:PHE:CB	2.16	0.76
6:F:11:LEU:CD2	6:F:23:TYR:CD1	2.63	0.76
1:A:3120:GLY:HA2	1:A:3696:LEU:HD13	1.67	0.76
1:A:3215:ILE:HG23	1:A:3219:ASP:CG	2.11	0.76
1:A:3261:LYS:HG2	1:A:3262:GLU:N	2.01	0.76
2:B:970:ALA:HB2	3:C:345:TRP:CH2	2.19	0.76
2:B:2333:PRO:HB3	20:B:5601:ATP:N1	1.96	0.76
3:C:2727:ILE:HD11	3:C:2745:LYS:CB	2.14	0.76
6:F:62:VAL:CG2	7:G:106:LEU:HD11	2.10	0.76
8:H:32:ILE:HD11	8:H:81:VAL:HG11	1.67	0.76
14:N:25:PHE:CE1	14:N:103:ILE:HG23	1.87	0.76
1:A:607:ILE:HD11	1:A:655:PHE:HA	1.66	0.76
1:A:801:ILE:HB	1:A:862:LEU:CD2	2.15	0.76
2:B:762:ILE:CG2	2:B:766:ILE:CG1	2.61	0.76
2:B:1566:ASN:HB3	3:C:2275:LYS:HE2	1.66	0.76
3:C:1983:THR:CB	19:C:4702:ADP:HN62	1.96	0.76
4:D:76:GLU:N	15:O:102:LEU:HD21	2.00	0.76
5:E:59:HIS:CD2	10:J:90:HIS:CE1	2.70	0.76
5:E:391:CYS:SG	5:E:427:LEU:CD1	2.74	0.76
5:E:394:TRP:NE1	5:E:401:PRO:HB3	2.00	0.76
6:F:14:LEU:HD21	6:F:23:TYR:CB	1.97	0.76
13:M:7:VAL:HG12	13:M:75:PHE:CB	2.16	0.76
1:A:1041:ASN:HA	1:A:1047:ASN:HD21	1.51	0.76
1:A:3261:LYS:HG3	1:A:3324:LYS:HE3	1.67	0.76
2:B:1465:LYS:HD2	2:B:1561:SER:HA	1.68	0.76
2:B:3445:LYS:CB	2:B:3487:PRO:HB3	2.14	0.76
3:C:217:PHE:CE1	3:C:246:HIS:HB2	2.21	0.76
3:C:2740:ILE:HG21	3:C:2744:LYS:CG	2.14	0.76
11:K:30:LYS:C	11:K:30:LYS:HD3	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1536:LEU:HD12	1:A:1536:LEU:N	2.01	0.76
2:B:1317:LEU:HA	16:P:61:GLU:HA	1.55	0.76
2:B:1467:PHE:HB3	2:B:1470:LEU:CG	2.15	0.76
4:D:80:PRO:CG	15:O:103:TRP:CE2	2.68	0.76
4:D:584:ILE:HG21	4:D:614:VAL:HG21	1.61	0.76
5:E:57:SER:O	10:J:90:HIS:CG	2.39	0.76
5:E:261:HIS:HE1	5:E:283:SER:HB3	1.50	0.76
5:E:355:ILE:HD12	5:E:355:ILE:N	2.01	0.76
1:A:1429:ILE:CG2	1:A:1490:PHE:HZ	1.98	0.75
1:A:1634:ILE:HD13	1:A:1656:ILE:CG2	2.17	0.75
1:A:3232:ILE:CG2	1:A:3316:TRP:HE3	1.98	0.75
1:A:3442:LYS:HD2	1:A:3485:THR:CA	2.16	0.75
2:B:467:VAL:C	2:B:471:THR:HG1	1.83	0.75
3:C:39:LEU:H	3:C:53:PRO:HA	1.51	0.75
4:D:360:ALA:CB	5:E:133:PHE:CZ	2.57	0.75
4:D:543:MET:SD	4:D:563:MET:CG	2.74	0.75
5:E:259:ASN:ND2	5:E:299:GLY:N	2.34	0.75
1:A:872:ASP:OD1	1:A:873:PRO:CD	2.33	0.75
1:A:971:ASN:HB3	1:A:983:ALA:CA	2.14	0.75
1:A:3251:ILE:N	17:Q:60:ASN:N	2.26	0.75
2:B:501:ARG:CZ	4:D:491:GLN:CD	2.53	0.75
2:B:531:LEU:HD22	2:B:540:LEU:CD1	2.14	0.75
4:D:92:TYR:CD2	13:M:29:LYS:HB2	2.21	0.75
1:A:57:TYR:HA	1:A:103:ASP:HA	1.68	0.75
1:A:119:ILE:O	2:B:107:ASP:O	2.03	0.75
1:A:1026:LEU:HD23	1:A:1026:LEU:O	1.86	0.75
1:A:3237:MET:SD	1:A:3332:ILE:HD13	2.26	0.75
2:B:544:HIS:CE1	2:B:609:LEU:CD1	2.19	0.75
2:B:888:PRO:C	2:B:891:ILE:HG22	2.11	0.75
2:B:1237:ARG:NH2	2:B:1262:ASP:CB	2.49	0.75
2:B:1458:PHE:CE1	2:B:1560:MET:HE3	2.21	0.75
2:B:1466:THR:HA	2:B:1560:MET:HE2	1.67	0.75
4:D:75:LEU:H	4:D:75:LEU:CD2	1.99	0.75
4:D:105:MET:CE	14:N:51:ILE:HD12	2.16	0.75
8:H:46:LYS:CE	9:I:86:ASP:HB2	2.03	0.75
12:L:21:ILE:HG21	12:L:24:ASN:HB2	1.68	0.75
2:B:603:ILE:CD1	2:B:626:TYR:CZ	2.70	0.75
2:B:3164:VAL:HG12	2:B:3409:ALA:HB2	1.67	0.75
4:D:175:THR:OG1	13:M:60:ASN:CA	2.34	0.75
5:E:129:LEU:HD11	6:F:80:ARG:CD	2.16	0.75
6:F:84:SER:CB	6:F:106:ALA:CB	2.65	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:956:LEU:HD12	2:B:959:ILE:CD1	2.09	0.75
2:B:1329:PRO:CB	2:B:1412:PHE:CB	2.64	0.75
2:B:3264:ASN:HB2	2:B:3306:ILE:HD13	1.67	0.75
3:C:180:LEU:HD23	3:C:187:TRP:CZ2	2.21	0.75
4:D:163:ARG:HD3	12:L:73:GLU:OE2	1.86	0.75
4:D:367:LEU:HG	4:D:371:THR:OG1	1.60	0.75
5:E:20:PHE:HA	14:N:90:ASP:CG	2.10	0.75
5:E:384:LEU:CG	5:E:417:TRP:NE1	2.49	0.75
7:G:111:ARG:O	7:G:114:VAL:CG1	2.34	0.75
1:A:1598:LYS:CD	1:A:1681:GLU:OE2	2.35	0.75
1:A:3350:LYS:CB	1:A:3351:PRO:HD3	2.15	0.75
2:B:422:ARG:NH1	2:B:422:ARG:HB2	2.02	0.75
2:B:882:LEU:C	2:B:886:ILE:HG22	2.11	0.75
2:B:1160:ILE:HG21	2:B:1180:GLU:OE2	1.85	0.75
2:B:1374:THR:O	2:B:1420:LEU:CB	2.35	0.75
2:B:3301:ASN:HB3	2:B:3351:LYS:NZ	2.01	0.75
3:C:289:ASP:OD2	3:C:317:LYS:HE3	1.86	0.75
1:A:397:ILE:CB	1:A:489:LYS:O	2.33	0.75
1:A:1429:ILE:HG21	1:A:1490:PHE:HZ	1.51	0.75
14:N:73:LEU:O	15:O:95:LEU:HB2	1.86	0.75
1:A:5:LYS:CB	1:A:48:GLU:HA	2.17	0.75
1:A:763:LEU:HD22	1:A:780:TYR:OH	1.86	0.75
1:A:1013:VAL:O	1:A:1016:PHE:CD1	2.40	0.75
1:A:1511:TRP:CA	1:A:1574:LEU:HD13	2.17	0.75
1:A:3236:ILE:CA	1:A:3333:LEU:HD21	2.03	0.75
2:B:731:PRO:O	2:B:735:PRO:CD	2.34	0.75
2:B:1610:TYR:CD2	2:B:1942:GLY:CA	2.70	0.75
2:B:3238:HIS:CE1	2:B:3335:LYS:CG	2.63	0.75
3:C:195:ASN:C	3:C:239:TRP:CZ2	2.65	0.75
3:C:2708:GLN:HE21	3:C:2809:ALA:C	1.95	0.75
4:D:80:PRO:HG2	15:O:103:TRP:HZ2	1.52	0.75
4:D:517:ILE:CD1	4:D:527:ILE:HG12	2.14	0.75
7:G:114:VAL:HG11	7:G:123:LEU:HG	1.68	0.75
8:H:60:ILE:HG12	9:I:85:TYR:CG	2.21	0.75
9:I:81:GLU:OE1	9:I:102:ASN:HB2	1.86	0.75
10:J:32:CYS:SG	10:J:96:ILE:CG1	2.75	0.75
16:P:16:GLU:CA	16:P:74:LEU:CB	2.64	0.75
1:A:889:TYR:OH	7:G:16:ILE:CB	2.34	0.75
1:A:1458:MET:CE	1:A:1518:TRP:CZ2	2.70	0.75
2:B:881:HIS:NE2	2:B:885:GLN:NE2	2.35	0.75
3:C:261:ILE:CG1	3:C:360:PRO:CB	2.54	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2800:PRO:CG	3:C:2818:VAL:HG21	2.17	0.75
4:D:91:TYR:HB2	13:M:28:VAL:CG1	2.17	0.75
5:E:259:ASN:ND2	5:E:298:ALA:C	2.44	0.75
14:N:72:ILE:CA	15:O:97:ILE:HG12	2.17	0.75
1:A:15:THR:CB	2:B:19:SER:HA	2.16	0.74
1:A:939:GLY:O	1:A:940:ASP:HB2	1.87	0.74
2:B:444:LEU:C	5:E:515:LYS:CG	2.46	0.74
2:B:501:ARG:NH1	4:D:491:GLN:CG	2.45	0.74
3:C:2711:SER:HB3	3:C:2751:TRP:CE2	2.16	0.74
6:F:19:GLY:O	6:F:101:GLN:CA	2.35	0.74
6:F:19:GLY:O	6:F:101:GLN:HA	1.86	0.74
1:A:3298:ILE:CA	1:A:3343:HIS:CE1	2.67	0.74
2:B:545:ILE:HD11	2:B:616:ARG:NH1	2.01	0.74
2:B:726:LYS:C	2:B:726:LYS:HD3	2.11	0.74
2:B:1559:MET:HG2	2:B:1577:ARG:HH22	1.51	0.74
4:D:94:ARG:NH2	13:M:78:ASN:ND2	2.35	0.74
6:F:81:THR:C	7:G:124:VAL:HG23	2.11	0.74
2:B:690:LEU:C	2:B:690:LEU:HD12	2.12	0.74
2:B:762:ILE:HG23	2:B:766:ILE:HG13	1.69	0.74
3:C:163:GLY:HA2	3:C:174:PHE:HD2	1.52	0.74
5:E:61:VAL:HG21	10:J:106:LEU:CD2	2.13	0.74
8:H:16:MET:SD	8:H:77:ILE:HB	2.27	0.74
1:A:1020:PHE:CE1	1:A:1069:TYR:CZ	2.75	0.74
2:B:797:PHE:CE1	2:B:871:ILE:HD13	2.22	0.74
2:B:966:LYS:HE2	3:C:84:TYR:OH	1.87	0.74
4:D:174:GLN:HE22	12:L:50:GLU:N	1.86	0.74
1:A:817:VAL:C	1:A:818:LEU:HD12	2.11	0.74
1:A:935:VAL:HG12	1:A:1081:ILE:HD12	1.69	0.74
1:A:1560:LYS:HB2	1:A:1563:PRO:HG2	1.69	0.74
1:A:3229:PRO:CB	1:A:3233:ILE:HG21	2.17	0.74
1:A:3230:LEU:C	1:A:3233:ILE:HG22	2.12	0.74
2:B:938:PHE:CD2	2:B:956:LEU:HD11	2.22	0.74
2:B:1447:ILE:HD11	2:B:1484:LEU:CB	2.18	0.74
2:B:1511:VAL:CG2	2:B:1570:VAL:HG11	2.17	0.74
4:D:66:LEU:HD22	4:D:66:LEU:N	2.03	0.74
4:D:115:TYR:HH	14:N:78:HIS:CD2	1.93	0.74
1:A:246:TRP:CB	1:A:317:LEU:CB	2.65	0.74
1:A:1637:VAL:CG1	1:A:1653:ILE:HG23	2.18	0.74
1:A:3212:VAL:HG23	1:A:3338:ALA:HB3	1.69	0.74
1:A:3298:ILE:HA	1:A:3343:HIS:CE1	2.23	0.74
2:B:679:ARG:CA	5:E:186:PHE:HZ	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:871:ILE:CG1	2:B:944:ILE:CD1	2.47	0.74
3:C:2746:PRO:HD2	3:C:2747:LYS:N	1.95	0.74
4:D:294:GLN:NE2	4:D:294:GLN:HA	2.02	0.74
4:D:543:MET:CE	4:D:563:MET:CE	2.41	0.74
7:G:137:VAL:HG22	7:G:146:ILE:HG12	1.70	0.74
9:I:27:SER:HB2	9:I:96:PHE:HB3	1.69	0.74
1:A:53:ILE:C	1:A:54:PHE:N	2.45	0.74
2:B:410:ASN:O	2:B:414:VAL:CG2	2.35	0.74
2:B:3271:ASP:CG	2:B:3272:PRO:HD2	2.11	0.74
3:C:214:LEU:HD12	3:C:232:TYR:O	1.86	0.74
3:C:2730:LEU:HD23	3:C:2738:ILE:CD1	2.17	0.74
4:D:106:ILE:CG1	15:O:99:SER:O	2.36	0.74
5:E:334:LEU:HD22	5:E:375:ARG:HH21	1.52	0.74
10:J:77:HIS:CE1	11:K:70:VAL:HG22	2.23	0.74
1:A:704:ARG:HD2	4:D:478:GLU:HG2	1.70	0.74
1:A:1133:GLY:N	1:A:1272:LEU:HD11	2.01	0.74
3:C:29:VAL:HG11	3:C:95:MET:SD	2.27	0.74
3:C:180:LEU:CD2	3:C:187:TRP:CH2	2.71	0.74
3:C:180:LEU:CD2	3:C:187:TRP:CZ3	2.70	0.74
4:D:251:MET:HB2	7:G:136:MET:CE	1.86	0.74
5:E:110:LYS:HA	6:F:10:GLN:HG2	1.69	0.74
1:A:852:ASN:ND2	1:A:969:LEU:HA	2.03	0.74
1:A:1066:VAL:CG1	1:A:1068:THR:O	2.36	0.74
2:B:660:LEU:CB	2:B:755:ILE:HD12	2.14	0.74
2:B:667:ASP:H	2:B:726:LYS:HE3	1.50	0.74
3:C:2711:SER:O	3:C:2751:TRP:CZ2	2.37	0.74
4:D:89:TYR:CE2	11:K:56:PRO:HD3	2.23	0.74
4:D:636:MET:HA	4:D:636:MET:HE3	1.70	0.74
10:J:74:PRO:HD3	12:L:102:ARG:CZ	2.18	0.74
1:A:3121:LEU:HD21	1:A:3429:TRP:C	2.12	0.74
2:B:410:ASN:O	2:B:414:VAL:HG23	1.86	0.74
2:B:528:GLU:CD	5:E:526:GLN:NE2	2.42	0.74
2:B:583:PRO:CB	2:B:683:GLU:HG2	2.17	0.74
2:B:1080:LEU:HD12	2:B:1080:LEU:N	2.03	0.74
3:C:222:PHE:C	3:C:282:ARG:HH12	1.95	0.74
4:D:243:ARG:HG3	5:E:131:GLU:OE2	1.88	0.74
1:A:751:LEU:O	1:A:751:LEU:HD23	1.88	0.73
2:B:425:ASP:O	2:B:489:PHE:CZ	2.41	0.73
2:B:660:LEU:CG	2:B:755:ILE:CD1	2.66	0.73
2:B:1488:LYS:CB	2:B:1501:VAL:CB	2.65	0.73
3:C:96:LEU:HD12	3:C:96:LEU:O	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:294:LEU:HD23	3:C:294:LEU:C	2.13	0.73
3:C:2927:ASP:HB3	3:C:2974:ILE:HG21	1.70	0.73
4:D:241:PHE:CZ	7:G:78:ILE:HD12	2.19	0.73
4:D:297:LYS:CE	4:D:316:LEU:HD23	2.02	0.73
5:E:99:ILE:HD12	6:F:31:ILE:CD1	2.17	0.73
5:E:100:GLU:OE1	6:F:34:LYS:NZ	2.15	0.73
5:E:225:GLN:H	5:E:225:GLN:CD	1.96	0.73
5:E:282:THR:HG22	5:E:288:VAL:HG22	1.68	0.73
13:M:84:LEU:C	13:M:84:LEU:HD12	2.12	0.73
1:A:943:THR:C	1:A:944:LEU:CA	2.60	0.73
1:A:1458:MET:HE1	1:A:1518:TRP:CZ2	2.23	0.73
1:A:3141:GLU:O	1:A:3145:LEU:HG	1.87	0.73
2:B:589:LEU:CD1	2:B:687:PHE:CZ	2.71	0.73
2:B:1002:GLN:HA	2:B:1094:TRP:CE2	2.23	0.73
3:C:220:TRP:HB2	3:C:251:TRP:HB2	1.69	0.73
6:F:19:GLY:O	6:F:101:GLN:CB	2.37	0.73
12:L:16:LEU:HD12	12:L:17:PRO:HD2	0.87	0.73
1:A:1066:VAL:HB	1:A:1069:TYR:CZ	2.23	0.73
1:A:1458:MET:CE	1:A:1548:TRP:CD1	2.70	0.73
2:B:794:LEU:C	2:B:797:PHE:CE2	2.66	0.73
2:B:1116:PHE:CA	2:B:1119:LYS:NZ	2.52	0.73
2:B:3067:ILE:HD11	2:B:3119:LYS:HD2	1.68	0.73
2:B:3342:ASN:O	2:B:3346:PHE:HB2	1.88	0.73
3:C:2740:ILE:CD1	3:C:2744:LYS:HD3	2.17	0.73
4:D:105:MET:HE1	14:N:47:THR:O	1.87	0.73
5:E:45:PRO:HA	12:L:89:ASP:HA	1.68	0.73
5:E:59:HIS:HD2	10:J:90:HIS:NE2	1.85	0.73
5:E:355:ILE:HD12	5:E:355:ILE:H	1.53	0.73
5:E:394:TRP:NE1	5:E:401:PRO:CA	2.51	0.73
1:A:997:LYS:HD3	18:R:149:LEU:HA	0.74	0.73
1:A:1416:ILE:O	1:A:1420:THR:HG23	1.88	0.73
1:A:1433:LEU:HD21	1:A:1481:PHE:HD2	1.54	0.73
2:B:356:GLN:CB	2:B:419:PHE:CZ	2.71	0.73
2:B:1511:VAL:HA	2:B:1570:VAL:HG13	1.70	0.73
2:B:1511:VAL:HG23	2:B:1570:VAL:HG11	1.70	0.73
3:C:159:TYR:CD1	3:C:179:VAL:HG21	2.23	0.73
3:C:2581:LEU:HD12	3:C:2936:SER:HB2	1.69	0.73
4:D:593:LEU:C	4:D:593:LEU:HD12	2.12	0.73
5:E:42:GLN:NE2	12:L:91:ASN:HD21	1.86	0.73
5:E:55:GLU:OE1	10:J:92:LYS:HD3	1.88	0.73
15:O:72:LYS:C	15:O:72:LYS:HD3	2.12	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1031:ILE:HG22	1:A:1031:ILE:O	1.88	0.73
2:B:1566:ASN:CG	3:C:2275:LYS:CD	2.61	0.73
2:B:1566:ASN:HB3	3:C:2275:LYS:HE3	1.68	0.73
2:B:3301:ASN:HD21	2:B:3351:LYS:HG2	1.54	0.73
5:E:72:GLY:HA3	8:H:68:PHE:CD2	2.23	0.73
1:A:1450:TRP:CD1	1:A:1518:TRP:CZ3	2.77	0.73
1:A:1632:ASP:CB	1:A:1892:PHE:CE1	2.63	0.73
2:B:957:GLN:OE1	3:C:164:HIS:CE1	2.40	0.73
2:B:2188:SER:O	20:B:5601:ATP:O3A	2.06	0.73
4:D:353:LEU:HD23	4:D:353:LEU:C	2.13	0.73
1:A:8:LYS:CB	1:A:109:SER:CB	2.66	0.73
1:A:594:PRO:HB3	1:A:609:TRP:CZ3	2.24	0.73
1:A:598:ARG:HB2	4:D:504:TYR:HE1	1.52	0.73
1:A:3257:VAL:CB	1:A:3266:VAL:CG1	2.35	0.73
2:B:3143:LEU:CD2	2:B:3698:LEU:CD1	2.67	0.73
3:C:114:LEU:HD13	3:C:114:LEU:C	2.13	0.73
3:C:159:TYR:HD1	3:C:179:VAL:HG22	1.36	0.73
3:C:265:LYS:CE	3:C:356:THR:CG2	2.42	0.73
4:D:501:LEU:HB2	4:D:522:ASP:HB2	1.69	0.73
1:A:1007:GLN:HA	1:A:1010:LYS:HE2	1.70	0.73
1:A:3042:PHE:CE2	1:A:3100:LYS:HE2	2.22	0.73
4:D:180:ILE:HD12	4:D:180:ILE:C	2.14	0.73
5:E:110:LYS:O	5:E:114:GLU:HG3	1.88	0.73
8:H:66:GLY:HA2	9:I:56:ILE:CG2	2.13	0.73
10:J:48:LEU:HD12	10:J:100:ILE:CD1	2.18	0.73
1:A:1163:LEU:C	1:A:1163:LEU:HD23	2.13	0.73
1:A:1638:THR:HG21	1:A:1655:GLN:HE21	0.61	0.73
1:A:3046:PHE:HE2	1:A:3104:ILE:HD11	1.52	0.73
2:B:59:THR:O	2:B:81:ILE:CA	2.36	0.73
2:B:444:LEU:N	5:E:515:LYS:HG2	1.71	0.73
2:B:532:THR:CG2	2:B:536:ILE:HG13	2.13	0.73
2:B:3125:LYS:HE2	2:B:3447:MET:HB3	1.71	0.73
4:D:526:ARG:HB2	4:D:528:TRP:CZ2	2.24	0.73
6:F:19:GLY:HA2	6:F:107:ILE:HD11	1.71	0.73
1:A:1601:ARG:HE	1:A:1688:GLU:CD	1.92	0.73
2:B:603:ILE:HD12	2:B:626:TYR:CZ	2.24	0.73
2:B:715:LEU:O	2:B:719:VAL:HG23	1.89	0.73
2:B:963:PHE:CE2	3:C:103:THR:CA	2.72	0.73
2:B:1444:LEU:HD21	2:B:1501:VAL:HG22	1.69	0.73
2:B:1467:PHE:CD2	2:B:1560:MET:SD	2.82	0.73
2:B:3269:LEU:C	2:B:3269:LEU:HD22	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2726:THR:HA	3:C:2729:LEU:HD12	0.73	0.73
4:D:75:LEU:HD12	15:O:102:LEU:CD1	2.18	0.73
15:O:90:ILE:HD12	15:O:90:ILE:O	1.89	0.73
1:A:635:ARG:HA	1:A:638:TYR:CD2	2.24	0.72
1:A:695:LEU:C	1:A:695:LEU:HD23	2.14	0.72
1:A:899:LEU:CD1	1:A:992:ASP:OD2	2.35	0.72
1:A:935:VAL:CG2	1:A:944:LEU:HD21	2.01	0.72
1:A:1045:LEU:HD13	1:A:1045:LEU:C	2.14	0.72
2:B:521:PHE:CE2	2:B:605:LYS:HB3	2.24	0.72
2:B:725:ILE:HG23	2:B:780:VAL:HG21	1.69	0.72
2:B:1567:PRO:HD3	3:C:2275:LYS:HE3	1.71	0.72
3:C:2726:THR:CA	3:C:2729:LEU:HD11	2.14	0.72
4:D:162:LEU:C	4:D:162:LEU:HD23	2.14	0.72
4:D:367:LEU:CD1	4:D:368:TYR:O	2.36	0.72
7:G:77:LEU:HD23	7:G:77:LEU:C	2.14	0.72
9:I:81:GLU:OE1	9:I:102:ASN:CG	2.30	0.72
10:J:37:LEU:C	10:J:37:LEU:HD23	2.14	0.72
12:L:21:ILE:HD13	12:L:96:PHE:HB3	1.68	0.72
1:A:1596:ARG:HG2	1:A:1603:TYR:CE2	2.23	0.72
2:B:603:ILE:CD1	2:B:626:TYR:CE1	2.72	0.72
2:B:861:ASP:HB3	3:C:170:GLN:CA	2.19	0.72
2:B:1119:LYS:CB	2:B:1138:LYS:NZ	2.50	0.72
2:B:1456:PHE:CD1	2:B:1456:PHE:O	2.42	0.72
3:C:214:LEU:H	3:C:214:LEU:HD13	1.54	0.72
3:C:2794:ASN:N	3:C:2796:PRO:HD3	2.05	0.72
4:D:216:HIS:HA	4:D:217:GLN:N	2.04	0.72
6:F:26:PHE:CE1	6:F:49:ALA:HB2	2.24	0.72
8:H:62:GLY:HA3	9:I:82:GLY:O	1.89	0.72
8:H:79:LEU:C	8:H:79:LEU:HD12	2.13	0.72
14:N:116:ALA:O	15:O:131:PHE:CE1	2.41	0.72
1:A:853:VAL:HB	5:E:206:ASN:HD21	0.79	0.72
1:A:1130:ASP:HB3	1:A:1265:ILE:CB	2.19	0.72
2:B:583:PRO:HB2	2:B:586:ALA:HB3	1.72	0.72
2:B:871:ILE:HD11	2:B:944:ILE:HD11	1.71	0.72
2:B:1374:THR:C	2:B:1420:LEU:CB	2.62	0.72
3:C:360:PRO:HG2	3:C:361:PRO:CD	2.18	0.72
3:C:2581:LEU:HD23	3:C:2581:LEU:C	2.14	0.72
3:C:2606:GLY:HA3	3:C:2910:TRP:CZ3	2.25	0.72
5:E:50:LEU:HD13	12:L:95:PHE:HB2	1.69	0.72
1:A:63:ALA:O	1:A:95:PHE:CB	2.37	0.72
1:A:597:VAL:HB	1:A:600:MET:CG	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:730:LEU:HD21	1:A:781:LEU:CD2	2.17	0.72
1:A:737:TYR:CD1	1:A:759:LEU:CD2	2.72	0.72
1:A:936:GLN:CA	1:A:1081:ILE:HG13	2.11	0.72
1:A:1126:VAL:CG1	1:A:1201:TYR:OH	2.37	0.72
1:A:1427:LEU:O	1:A:1431:THR:HG23	1.88	0.72
1:A:1487:VAL:HG23	1:A:1490:PHE:HE1	1.51	0.72
1:A:1634:ILE:HD13	1:A:1656:ILE:HG23	1.71	0.72
2:B:575:ASN:HB2	5:E:481:GLN:NE2	2.04	0.72
2:B:1116:PHE:HA	2:B:1119:LYS:HZ2	1.51	0.72
2:B:1567:PRO:HD2	3:C:2275:LYS:CE	2.20	0.72
2:B:3119:LYS:HB3	2:B:3119:LYS:HZ3	1.54	0.72
2:B:3454:ALA:HB2	2:B:3497:ILE:HG21	1.71	0.72
3:C:143:PRO:HG3	3:C:187:TRP:CZ2	2.24	0.72
4:D:90:ASP:OD1	13:M:32:LYS:CB	2.38	0.72
4:D:109:PHE:CE2	15:O:121:TYR:CE2	2.76	0.72
4:D:351:MET:HE2	4:D:351:MET:CA	2.13	0.72
5:E:259:ASN:HD22	5:E:298:ALA:C	1.97	0.72
9:I:90:GLN:HB2	9:I:93:THR:HG21	1.71	0.72
1:A:97:ARG:O	1:A:121:GLY:HA2	1.90	0.72
2:B:433:ILE:CB	2:B:463:PHE:HZ	2.01	0.72
2:B:1139:LEU:HD13	2:B:1139:LEU:C	2.15	0.72
3:C:2711:SER:CB	3:C:2751:TRP:CH2	2.68	0.72
7:G:58:SER:O	7:G:62:ASP:HB3	1.87	0.72
8:H:13:ASN:O	8:H:78:TYR:HB3	1.89	0.72
12:L:93:LEU:HD13	12:L:108:PHE:HB3	1.71	0.72
13:M:14:GLU:OE1	13:M:14:GLU:N	2.20	0.72
1:A:1066:VAL:HG12	1:A:1068:THR:O	1.89	0.72
1:A:1111:LEU:O	1:A:1115:THR:HG23	1.89	0.72
1:A:1212:LEU:HD23	1:A:1212:LEU:C	2.14	0.72
2:B:886:ILE:HD13	2:B:972:ILE:HG23	1.72	0.72
3:C:200:ARG:HB2	3:C:219:GLY:HA3	1.71	0.72
3:C:2366:LYS:HE2	19:C:4703:ADP:O3B	1.88	0.72
4:D:473:LEU:HD23	4:D:483:LYS:HA	1.71	0.72
4:D:567:GLN:CD	4:D:578:LYS:CE	2.62	0.72
6:F:28:GLU:N	6:F:28:GLU:OE1	2.18	0.72
1:A:1482:ASN:HA	1:A:1487:VAL:HG11	1.70	0.72
1:A:3222:GLU:HB3	1:A:3328:ALA:CB	2.17	0.72
3:C:53:PRO:CG	3:C:81:PRO:HB3	2.20	0.72
3:C:293:VAL:HG21	3:C:304:ILE:HD12	1.70	0.72
3:C:2581:LEU:CD1	3:C:2937:TYR:CE2	2.73	0.72
3:C:2899:LEU:HD23	3:C:2899:LEU:C	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:386:TYR:CE1	5:E:142:VAL:CG1	2.72	0.72
4:D:514:ARG:HB2	4:D:530:SER:HB2	1.71	0.72
6:F:81:THR:HB	7:G:121:ASN:OD1	1.89	0.72
10:J:61:ALA:CA	10:J:80:PHE:CE2	2.69	0.72
13:M:2:ASN:HD21	13:M:77:ILE:HD11	1.53	0.72
1:A:1263:TYR:CD2	1:A:1283:LEU:CB	2.73	0.72
1:A:1433:LEU:CD1	1:A:1490:PHE:CE1	2.72	0.72
2:B:726:LYS:HD3	2:B:726:LYS:O	1.90	0.72
2:B:1208:LYS:HA	2:B:1208:LYS:CE	2.20	0.72
3:C:5:LEU:HD12	3:C:355:SER:H	1.54	0.72
5:E:26:ARG:O	14:N:85:ILE:HG22	1.90	0.72
14:N:115:MET:HE2	15:O:129:CYS:CB	2.19	0.72
1:A:3306:LEU:HD13	1:A:3310:LEU:HG	1.71	0.72
2:B:412:LEU:HD13	2:B:412:LEU:C	2.15	0.72
5:E:117:GLU:HG3	6:F:17:LEU:HD11	0.72	0.72
6:F:28:GLU:CD	6:F:28:GLU:H	1.97	0.72
9:I:35:LEU:HD22	9:I:95:LEU:HD13	1.72	0.72
11:K:89:LEU:HD12	11:K:89:LEU:O	1.90	0.72
1:A:818:LEU:HA	1:A:844:LYS:HE3	1.71	0.72
1:A:3257:VAL:HG13	1:A:3266:VAL:HA	1.72	0.72
2:B:682:LYS:HZ2	5:E:186:PHE:HE1	1.27	0.72
2:B:1559:MET:HE3	2:B:1577:ARG:HH21	1.50	0.72
2:B:2396:MET:HE1	2:B:2668:GLN:HB3	1.71	0.72
2:B:3231:VAL:O	2:B:3339:TRP:HD1	1.73	0.72
3:C:111:THR:HG21	3:C:187:TRP:HZ3	1.54	0.72
3:C:217:PHE:CZ	3:C:246:HIS:HB2	2.25	0.72
3:C:2721:GLU:CA	3:C:2798:PHE:CZ	2.73	0.72
4:D:110:SER:CB	15:O:96:ARG:HG3	2.20	0.72
4:D:254:GLN:OE1	5:E:126:ILE:HD11	1.90	0.72
5:E:100:GLU:CA	5:E:105:PHE:HD2	2.03	0.72
5:E:446:ILE:HD12	5:E:446:ILE:N	2.01	0.72
6:F:54:ASP:CG	7:G:109:LYS:HE2	2.15	0.72
8:H:79:LEU:HD12	8:H:79:LEU:O	1.89	0.72
9:I:24:ILE:HD13	9:I:98:PHE:HE1	1.53	0.72
1:A:761:LEU:HD13	1:A:761:LEU:O	1.90	0.71
2:B:524:LEU:HD23	2:B:524:LEU:C	2.14	0.71
2:B:3257:ARG:NH2	2:B:3273:ASP:OD1	2.23	0.71
2:B:3301:ASN:HD22	2:B:3351:LYS:NZ	1.74	0.71
6:F:21:ASN:ND2	6:F:102:LEU:HD11	2.05	0.71
14:N:86:THR:OG1	15:O:83:VAL:CG1	2.37	0.71
16:P:39:TRP:C	16:P:40:SER:CA	2.62	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1511:TRP:HA	1:A:1574:LEU:CD1	2.19	0.71
2:B:446:GLY:HA2	5:E:512:GLU:OE2	1.89	0.71
2:B:679:ARG:CA	5:E:186:PHE:CZ	2.73	0.71
2:B:713:VAL:HG11	5:E:258:GLU:CB	2.18	0.71
2:B:963:PHE:CD2	3:C:104:SER:N	2.58	0.71
2:B:3301:ASN:ND2	2:B:3351:LYS:HG2	2.05	0.71
3:C:106:LEU:N	3:C:106:LEU:HD12	2.04	0.71
3:C:2673:VAL:HA	3:C:2841:THR:HG22	1.70	0.71
4:D:66:LEU:HD11	4:D:73:LYS:HE2	1.71	0.71
4:D:260:LYS:HB3	4:D:287:TRP:CZ2	2.25	0.71
4:D:269:SER:HB2	4:D:618:PRO:HD3	1.71	0.71
8:H:58:HIS:HD2	9:I:87:VAL:CG1	2.00	0.71
15:O:45:ARG:HG3	15:O:63:LEU:CD1	2.20	0.71
1:A:1609:THR:HG21	1:A:1629:LYS:HE3	1.72	0.71
2:B:789:LYS:HE3	2:B:839:LEU:HD21	1.71	0.71
2:B:799:VAL:CG1	2:B:800:LYS:N	2.52	0.71
2:B:1511:VAL:CA	2:B:1570:VAL:HG22	1.95	0.71
5:E:75:HIS:CE1	8:H:85:ALA:HB2	2.26	0.71
5:E:394:TRP:NE1	5:E:401:PRO:CB	2.54	0.71
5:E:446:ILE:H	5:E:446:ILE:CD1	1.99	0.71
9:I:78:ILE:HD12	9:I:78:ILE:O	1.91	0.71
16:P:10:THR:CB	16:P:66:ILE:O	2.39	0.71
1:A:804:ASN:HD22	5:E:148:LYS:CB	2.01	0.71
1:A:944:LEU:HD11	1:A:1013:VAL:HG11	1.69	0.71
1:A:1012:LYS:NZ	1:A:1071:ILE:HB	2.05	0.71
1:A:1100:LEU:HG	1:A:1159:MET:HE1	1.72	0.71
1:A:3255:GLU:OE1	1:A:3269:LEU:C	2.34	0.71
1:A:3583:ILE:HG22	1:A:3627:CYS:HA	1.71	0.71
2:B:718:ILE:HD12	2:B:773:VAL:HG11	1.71	0.71
2:B:861:ASP:HB3	3:C:170:GLN:N	2.04	0.71
2:B:969:LEU:HD13	3:C:341:TRP:HZ2	1.56	0.71
2:B:3301:ASN:CB	2:B:3351:LYS:NZ	2.53	0.71
3:C:2365:GLY:HA2	19:C:4703:ADP:C3'	2.21	0.71
3:C:2676:GLN:CB	3:C:2837:LEU:O	2.37	0.71
3:C:2698:LEU:CD2	3:C:2768:LEU:HB3	2.19	0.71
4:D:198:ASN:HB3	8:H:39:LYS:HE3	1.72	0.71
5:E:20:PHE:HZ	15:O:80:LYS:HG3	0.90	0.71
12:L:59:LYS:HB2	12:L:59:LYS:NZ	2.06	0.71
1:A:891:PHE:CZ	1:A:985:PHE:CZ	2.78	0.71
1:A:1504:VAL:CG1	1:A:1565:CYS:SG	2.78	0.71
3:C:256:ILE:HB	3:C:326:ILE:HG23	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:46:ASN:CG	12:L:88:PHE:CZ	2.68	0.71
10:J:61:ALA:CB	10:J:80:PHE:CZ	2.56	0.71
1:A:841:ILE:O	1:A:845:THR:HG23	1.89	0.71
2:B:409:SER:CA	2:B:413:PHE:CD1	2.48	0.71
2:B:984:ASN:HA	2:B:987:ARG:HG2	1.71	0.71
2:B:1607:PRO:HB2	2:B:1946:SER:CB	2.19	0.71
2:B:3252:VAL:HG22	2:B:3333:ALA:HB2	1.72	0.71
3:C:34:ILE:HB	3:C:95:MET:HE1	1.71	0.71
3:C:346:LEU:O	3:C:346:LEU:HD22	1.88	0.71
4:D:170:THR:HG21	13:M:66:ILE:HG12	0.71	0.71
4:D:429:MET:HB2	4:D:432:LYS:O	1.90	0.71
4:D:535:GLN:N	4:D:535:GLN:OE1	2.24	0.71
8:H:28:ALA:HB1	8:H:86:ILE:CD1	2.20	0.71
14:N:85:ILE:HG21	14:N:98:ILE:HD12	1.54	0.71
1:A:1623:ILE:HD11	1:A:1680:ILE:CD1	2.17	0.71
1:A:3110:LEU:CD1	1:A:3443:LEU:HD22	2.14	0.71
2:B:575:ASN:CA	5:E:481:GLN:NE2	2.52	0.71
2:B:744:MET:SD	2:B:772:ILE:HG12	2.28	0.71
2:B:797:PHE:CZ	2:B:871:ILE:HD13	2.26	0.71
2:B:3118:TYR:CE2	2:B:3452:LEU:CB	2.74	0.71
2:B:3248:PRO:HB2	2:B:3253:ILE:HD11	1.73	0.71
5:E:19:ASN:O	14:N:90:ASP:OD2	2.09	0.71
5:E:366:HIS:CE1	5:E:394:TRP:HH2	2.09	0.71
5:E:394:TRP:CD1	5:E:401:PRO:N	2.59	0.71
10:J:48:LEU:HD23	10:J:60:ILE:CD1	2.20	0.71
13:M:57:VAL:HG22	13:M:82:LEU:HG	1.72	0.71
1:A:1143:ARG:CD	4:D:169:ASN:ND2	2.47	0.71
2:B:575:ASN:H	5:E:481:GLN:NE2	1.82	0.71
2:B:729:LEU:HD13	2:B:780:VAL:HG22	1.73	0.71
2:B:1378:LEU:HA	2:B:1424:GLU:HG2	1.72	0.71
2:B:3150:VAL:CG1	2:B:3423:VAL:HG22	2.14	0.71
2:B:3303:GLU:OE1	2:B:3306:ILE:CD1	2.39	0.71
3:C:233:ASP:OD1	3:C:235:GLU:O	2.09	0.71
3:C:2581:LEU:CD1	3:C:2936:SER:CB	2.68	0.71
4:D:424:MET:SD	4:D:437:GLU:HG2	2.31	0.71
10:J:48:LEU:HD22	10:J:53:ILE:HG13	1.72	0.71
10:J:87:GLN:OE1	11:K:44:SER:HB3	1.89	0.71
12:L:77:ILE:HG23	13:M:63:SER:CB	2.20	0.71
1:A:888:ARG:HH22	7:G:5:THR:CB	2.04	0.71
1:A:1418:ASP:CG	1:A:3604:LYS:HZ1	1.95	0.71
1:A:1444:GLN:HA	1:A:1561:VAL:N	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:523:LEU:HD23	2:B:523:LEU:C	2.16	0.71
3:C:2606:GLY:CA	3:C:2910:TRP:HZ3	2.04	0.71
4:D:91:TYR:CE1	13:M:80:LEU:HD12	2.25	0.71
6:F:84:SER:HB3	6:F:106:ALA:CB	2.17	0.71
1:A:906:LEU:CD1	1:A:998:VAL:HG21	2.21	0.71
1:A:942:VAL:HG21	1:A:1021:THR:CG2	2.21	0.71
1:A:1126:VAL:HA	1:A:1131:SER:HG	1.50	0.71
2:B:1467:PHE:HB2	2:B:1470:LEU:HD11	1.69	0.71
2:B:3342:ASN:O	2:B:3346:PHE:N	2.22	0.71
3:C:53:PRO:CG	3:C:81:PRO:HB2	2.21	0.71
3:C:244:ILE:HG12	3:C:299:LEU:O	1.90	0.71
5:E:66:VAL:HG11	8:H:72:GLU:CD	2.16	0.71
5:E:112:LEU:HD23	5:E:112:LEU:C	2.16	0.71
5:E:203:LEU:HD23	5:E:203:LEU:C	2.16	0.71
5:E:384:LEU:HD23	5:E:417:TRP:CZ2	2.26	0.71
1:A:806:ILE:CD1	1:A:890:TYR:CD2	2.75	0.70
2:B:477:ILE:O	2:B:477:ILE:HG22	1.91	0.70
2:B:957:GLN:CG	3:C:164:HIS:NE2	2.53	0.70
2:B:3121:LEU:HD13	2:B:3121:LEU:C	2.16	0.70
2:B:3140:LEU:HD23	2:B:3140:LEU:C	2.16	0.70
5:E:50:LEU:CD1	12:L:95:PHE:CB	2.64	0.70
5:E:58:GLU:HB3	10:J:89:VAL:HA	1.71	0.70
5:E:272:MET:SD	5:E:326:VAL:HG22	2.30	0.70
14:N:10:SER:HB2	14:N:97:LEU:HD11	1.73	0.70
14:N:72:ILE:HG12	15:O:97:ILE:CG1	2.20	0.70
1:A:852:ASN:HD22	1:A:969:LEU:HA	1.55	0.70
1:A:913:VAL:C	1:A:1073:ALA:HB1	2.15	0.70
1:A:1100:LEU:HD23	1:A:1100:LEU:C	2.16	0.70
1:A:3251:ILE:HG13	17:Q:82:ASN:HA	0.82	0.70
1:A:3306:LEU:HD22	1:A:3309:TYR:HB2	1.73	0.70
2:B:655:LYS:HA	2:B:677:LEU:HD11	1.71	0.70
2:B:904:LEU:HD11	2:B:911:ILE:HG22	1.71	0.70
2:B:3238:HIS:ND1	2:B:3335:LYS:CG	2.51	0.70
3:C:360:PRO:CD	3:C:361:PRO:HD2	2.22	0.70
4:D:177:ASN:CG	13:M:60:ASN:CB	2.58	0.70
4:D:180:ILE:HD12	4:D:180:ILE:O	1.91	0.70
4:D:201:GLN:OE1	9:I:102:ASN:HB3	1.89	0.70
4:D:201:GLN:HE22	9:I:102:ASN:CB	2.03	0.70
5:E:82:GLY:CA	8:H:12:LYS:NZ	2.51	0.70
1:A:700:LYS:CE	1:A:720:GLU:OE1	2.30	0.70
1:A:2418:ILE:HG22	1:A:2419:PRO:HD2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3293:PHE:HE1	1:A:3335:TRP:CH2	2.04	0.70
2:B:673:PHE:CZ	2:B:677:LEU:CB	2.74	0.70
2:B:864:ASN:HB3	2:B:947:LEU:HG	1.21	0.70
2:B:883:ASN:HA	2:B:886:ILE:HG22	1.73	0.70
2:B:1058:LYS:HB2	2:B:1166:GLU:HB3	1.68	0.70
2:B:2192:CYS:SG	20:B:5601:ATP:H8	2.12	0.70
3:C:2701:ILE:HD12	3:C:2704:LYS:HE3	1.72	0.70
4:D:201:GLN:HE22	9:I:102:ASN:CA	2.03	0.70
5:E:16:ASN:CB	15:O:132:GLU:C	2.62	0.70
5:E:20:PHE:CA	14:N:90:ASP:OD1	2.35	0.70
5:E:363:GLN:HG2	5:E:363:GLN:O	1.91	0.70
14:N:85:ILE:HB	14:N:98:ILE:CD1	2.14	0.70
1:A:1443:MET:HG3	1:A:1561:VAL:HG21	1.73	0.70
1:A:1521:LEU:O	1:A:1541:PHE:CE2	2.45	0.70
1:A:3223:LEU:CD1	1:A:3332:ILE:CG1	2.47	0.70
2:B:899:LEU:CD1	2:B:900:PHE:N	2.52	0.70
2:B:1439:LYS:O	2:B:1443:LYS:HG3	1.91	0.70
3:C:2589:LEU:CB	3:C:2928:VAL:HG11	2.22	0.70
3:C:2721:GLU:CB	3:C:2803:MET:CE	2.34	0.70
8:H:11:ILE:HA	8:H:79:LEU:HA	1.73	0.70
12:L:77:ILE:HA	13:M:63:SER:HB2	1.72	0.70
1:A:3212:VAL:HG21	1:A:3339:ILE:HG13	1.73	0.70
2:B:783:MET:HE1	2:B:847:VAL:HG21	1.72	0.70
2:B:1115:ASP:C	2:B:1119:LYS:NZ	2.49	0.70
3:C:2701:ILE:HG13	3:C:2704:LYS:HB2	1.73	0.70
3:C:2721:GLU:HB2	3:C:2803:MET:HE1	1.69	0.70
3:C:2793:LEU:C	3:C:2796:PRO:CG	2.64	0.70
4:D:172:GLU:HB3	13:M:64:HIS:CG	2.25	0.70
4:D:248:MET:CE	7:G:147:VAL:CB	2.69	0.70
4:D:367:LEU:CD1	4:D:371:THR:HG1	1.95	0.70
5:E:47:PHE:C	12:L:88:PHE:CE2	2.70	0.70
5:E:100:GLU:HA	5:E:105:PHE:CB	2.22	0.70
5:E:261:HIS:HB3	5:E:289:MET:SD	2.31	0.70
1:A:730:LEU:CD2	1:A:781:LEU:CD2	2.70	0.70
1:A:1450:TRP:CZ2	1:A:1519:THR:HG23	2.27	0.70
1:A:1634:ILE:C	1:A:1634:ILE:HD12	2.14	0.70
1:A:3230:LEU:N	1:A:3233:ILE:CG2	2.54	0.70
1:A:3251:ILE:HG12	17:Q:62:ILE:N	2.07	0.70
2:B:57:ASN:CA	2:B:71:CYS:CB	2.69	0.70
2:B:1566:ASN:OD1	3:C:2275:LYS:HD3	1.92	0.70
3:C:221:SER:O	3:C:282:ARG:NH2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2014:CYS:SG	3:C:2015:GLY:N	2.64	0.70
3:C:2670:LYS:HD2	3:C:2670:LYS:C	2.17	0.70
3:C:2800:PRO:CD	3:C:2801:GLU:H	1.98	0.70
1:A:801:ILE:HG21	1:A:862:LEU:HG	1.73	0.70
1:A:1183:LEU:HD23	1:A:1183:LEU:C	2.17	0.70
1:A:1449:ILE:CA	1:A:1459:LEU:CD2	2.62	0.70
1:A:1511:TRP:CG	1:A:1574:LEU:HD11	2.27	0.70
1:A:2839:LEU:CD1	19:A:4901:ADP:C5	2.74	0.70
1:A:2872:GLY:CA	19:A:4901:ADP:O2A	2.40	0.70
1:A:3587:VAL:HG11	1:A:3638:LEU:HD13	1.74	0.70
2:B:489:PHE:O	2:B:493:ARG:HG2	1.92	0.70
2:B:1329:PRO:C	2:B:1412:PHE:CB	2.65	0.70
2:B:1456:PHE:CG	2:B:1467:PHE:HE1	2.08	0.70
3:C:136:ALA:HB2	3:C:168:ASN:HA	1.74	0.70
4:D:590:LEU:HD23	4:D:604:VAL:HG13	1.71	0.70
5:E:23:THR:HG22	14:N:88:TYR:CD1	2.23	0.70
1:A:1190:LEU:HD23	1:A:1190:LEU:C	2.17	0.70
1:A:3273:TYR:CD1	1:A:3276:SER:N	2.60	0.70
2:B:520:ARG:HH11	2:B:550:MET:HG3	1.55	0.70
4:D:61:LEU:N	14:N:59:ASN:ND2	2.40	0.70
4:D:576:LEU:HD13	4:D:576:LEU:C	2.16	0.70
5:E:162:ARG:HD3	5:E:194:PRO:HG2	1.72	0.70
1:A:3702:SER:CB	1:A:3712:LEU:HD11	2.22	0.70
2:B:3446:SER:HA	2:B:3488:ILE:HA	1.72	0.70
3:C:2607:LEU:N	3:C:2910:TRP:CZ3	2.58	0.70
3:C:2772:LYS:HD3	3:C:2772:LYS:C	2.16	0.70
4:D:111:MET:CE	15:O:90:ILE:CB	2.62	0.70
6:F:48:ILE:HD11	6:F:98:LEU:HD21	1.58	0.70
7:G:79:VAL:CG2	7:G:146:ILE:HD12	2.22	0.70
15:O:71:ILE:HG21	15:O:81:ILE:HG21	1.72	0.70
1:A:40:LEU:H	1:A:41:LEU:N	1.90	0.70
1:A:1026:LEU:HD23	1:A:1026:LEU:C	2.17	0.70
1:A:1274:GLY:O	4:D:164:ASN:OD1	2.10	0.70
1:A:1926:PHE:HB3	1:A:1974:ILE:HG23	1.74	0.70
2:B:545:ILE:CD1	2:B:616:ARG:HH11	1.99	0.70
2:B:957:GLN:OE1	3:C:164:HIS:NE2	2.25	0.70
2:B:1242:GLN:C	2:B:1251:SER:N	2.50	0.70
2:B:1566:ASN:ND2	3:C:2275:LYS:HD3	2.06	0.70
3:C:196:PRO:CA	3:C:239:TRP:CH2	2.72	0.70
3:C:2365:GLY:O	19:C:4703:ADP:H5'2	1.92	0.70
4:D:80:PRO:HG2	15:O:103:TRP:CZ2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:92:TYR:CD2	13:M:29:LYS:CB	2.74	0.70
4:D:109:PHE:CD2	15:O:121:TYR:CD2	2.80	0.70
4:D:517:ILE:CD1	4:D:550:TRP:CZ2	2.73	0.70
5:E:272:MET:SD	5:E:326:VAL:CG2	2.80	0.70
11:K:39:GLU:N	11:K:39:GLU:OE1	2.24	0.70
1:A:819:VAL:HG21	1:A:905:SER:HB2	1.74	0.69
1:A:1100:LEU:HD22	1:A:1163:LEU:HB2	1.74	0.69
1:A:1597:LYS:CE	1:A:1962:ILE:HD11	2.22	0.69
2:B:500:GLU:HG2	2:B:532:THR:HG21	1.73	0.69
2:B:935:ASN:CB	3:C:283:THR:CG2	2.70	0.69
2:B:1471:ASP:OD1	2:B:1472:ASN:N	2.24	0.69
2:B:3143:LEU:HD23	2:B:3698:LEU:HD13	1.73	0.69
2:B:3402:LYS:C	2:B:3402:LYS:HD3	2.16	0.69
3:C:2669:ILE:HD12	3:C:2847:ALA:HB2	1.25	0.69
3:C:2792:TYR:O	3:C:2796:PRO:HD3	1.91	0.69
4:D:569:TYR:CZ	4:D:578:LYS:CD	2.74	0.69
7:G:119:PRO:CG	9:I:12:ILE:CD1	2.69	0.69
10:J:79:PHE:CG	11:K:68:ALA:CB	2.74	0.69
14:N:116:ALA:O	15:O:131:PHE:HD1	1.75	0.69
1:A:1142:ILE:HD13	1:A:1190:LEU:HD21	1.74	0.69
1:A:3317:PHE:HA	1:A:3333:LEU:HD13	1.74	0.69
2:B:741:ILE:HD13	2:B:776:LEU:CD1	2.20	0.69
2:B:789:LYS:CB	2:B:839:LEU:HD13	2.21	0.69
2:B:1115:ASP:C	2:B:1119:LYS:HZ2	1.99	0.69
2:B:3297:PHE:CE2	2:B:3302:ILE:HD13	2.27	0.69
3:C:2365:GLY:HA2	19:C:4703:ADP:H5'2	1.74	0.69
3:C:2784:ASN:O	3:C:2787:ILE:CG2	2.33	0.69
5:E:112:LEU:CD2	6:F:97:MET:HE2	2.22	0.69
5:E:251:PRO:HG2	5:E:254:ILE:HD11	1.73	0.69
5:E:531:ARG:O	5:E:535:LYS:HG3	1.91	0.69
6:F:91:GLN:HE21	6:F:96:THR:HG21	1.55	0.69
10:J:19:LYS:HB2	10:J:28:TRP:CB	2.20	0.69
10:J:62:GLU:HG3	11:K:69:TYR:CE2	2.26	0.69
16:P:10:THR:CB	16:P:66:ILE:H	2.05	0.69
1:A:398:TRP:CB	1:A:490:LYS:CA	2.69	0.69
1:A:580:LEU:HD22	1:A:640:SER:CB	1.99	0.69
1:A:604:ALA:H	1:A:698:GLU:CD	1.98	0.69
1:A:870:PRO:C	1:A:871:LEU:CD1	2.64	0.69
1:A:960:THR:CG2	18:R:117:VAL:CB	2.70	0.69
1:A:1452:LYS:CA	1:A:1458:MET:N	2.52	0.69
1:A:3194:ALA:HB1	1:A:3356:VAL:HG22	1.69	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1051:ASP:OD2	2:B:1162:THR:HG21	1.90	0.69
2:B:1447:ILE:HG21	2:B:1504:TRP:HE1	0.53	0.69
2:B:1474:MET:HE2	2:B:1515:VAL:HG12	1.74	0.69
2:B:3234:LEU:CD1	2:B:3336:LEU:CD2	2.69	0.69
3:C:2690:LEU:CB	3:C:2826:VAL:CG1	2.70	0.69
3:C:2850:LYS:O	3:C:2854:VAL:HG23	1.93	0.69
4:D:61:LEU:N	14:N:59:ASN:HD21	1.89	0.69
4:D:177:ASN:ND2	13:M:60:ASN:CG	2.51	0.69
5:E:378:GLN:HB2	5:E:422:SER:HB3	1.72	0.69
6:F:91:GLN:CD	6:F:96:THR:HG21	2.17	0.69
1:A:819:VAL:CA	1:A:840:TYR:HE2	2.05	0.69
1:A:3709:ASP:HB3	1:A:3712:LEU:HD12	1.74	0.69
2:B:58:SER:N	2:B:71:CYS:CB	2.56	0.69
2:B:582:MET:O	5:E:186:PHE:HB3	1.93	0.69
2:B:674:ASP:OD1	2:B:675:PRO:HD2	1.91	0.69
2:B:721:ASN:OD1	2:B:777:PHE:HB2	1.92	0.69
2:B:1477:LEU:HD13	2:B:1511:VAL:HG11	1.73	0.69
4:D:70:MET:CE	5:E:13:GLU:CB	2.68	0.69
4:D:90:ASP:OD1	13:M:32:LYS:CG	2.40	0.69
4:D:441:LEU:CD1	4:D:457:ALA:O	2.40	0.69
4:D:529:ASP:OD2	4:D:532:TYR:CE2	2.45	0.69
4:D:553:TYR:HE1	4:D:595:PHE:HZ	1.40	0.69
5:E:361:LEU:O	5:E:361:LEU:HD13	1.90	0.69
6:F:51:LEU:HB3	7:G:113:VAL:HG13	1.74	0.69
6:F:56:TRP:CZ3	6:F:74:ILE:CG1	2.74	0.69
1:A:970:TYR:CA	1:A:983:ALA:O	2.40	0.69
1:A:1544:ILE:HG12	1:A:1580:LYS:HG2	1.75	0.69
1:A:1637:VAL:CG1	1:A:1653:ILE:CG2	2.70	0.69
2:B:429:LEU:HD13	2:B:492:PHE:HD2	1.56	0.69
2:B:844:LEU:O	2:B:844:LEU:HD23	1.92	0.69
5:E:46:ASN:HB3	12:L:88:PHE:CD1	2.28	0.69
5:E:116:VAL:HG11	6:F:99:ALA:HB2	1.74	0.69
1:A:576:TYR:CE1	1:A:620:PRO:C	2.66	0.69
1:A:3236:ILE:CG2	1:A:3333:LEU:N	2.56	0.69
2:B:433:ILE:CA	2:B:463:PHE:CZ	2.74	0.69
2:B:699:LYS:O	2:B:703:THR:HG23	1.92	0.69
3:C:12:GLN:NE2	3:C:349:LEU:HB2	2.00	0.69
3:C:2673:VAL:HA	3:C:2841:THR:CG2	2.23	0.69
3:C:2726:THR:O	3:C:2729:LEU:HB2	1.93	0.69
5:E:145:LEU:HD13	5:E:494:LEU:HD11	1.73	0.69
14:N:72:ILE:HG12	15:O:97:ILE:CD1	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:670:LEU:HD21	1:A:772:TRP:HD1	1.55	0.69
1:A:726:TYR:CE1	1:A:777:ILE:CG2	2.74	0.69
1:A:1536:LEU:H	1:A:1536:LEU:CD1	2.02	0.69
1:A:1623:ILE:CD1	1:A:1680:ILE:HD13	2.19	0.69
1:A:3293:PHE:CE1	1:A:3335:TRP:HH2	2.11	0.69
2:B:1058:LYS:NZ	2:B:1167:MET:SD	2.60	0.69
2:B:2540:ALA:O	19:B:5501:ADP:O3B	2.10	0.69
2:B:3433:TRP:CH2	2:B:3695:LEU:HD21	2.27	0.69
3:C:2708:GLN:OE1	3:C:2813:ILE:CG1	2.41	0.69
4:D:329:ILE:HD11	4:D:350:VAL:HG21	1.73	0.69
6:F:48:ILE:HD13	6:F:98:LEU:HD23	1.63	0.69
1:A:398:TRP:HA	1:A:486:ASN:O	1.92	0.69
1:A:596:LEU:HD21	1:A:602:PRO:HA	1.72	0.69
1:A:761:LEU:CD1	1:A:872:ASP:OD2	2.41	0.69
1:A:1088:TRP:O	1:A:1092:TRP:CD1	2.46	0.69
1:A:1101:HIS:CA	1:A:1163:LEU:CD1	2.62	0.69
1:A:1596:ARG:HD3	1:A:1603:TYR:CD1	2.28	0.69
1:A:2839:LEU:CD1	19:A:4901:ADP:N3	2.55	0.69
1:A:3290:LEU:HD23	1:A:3335:TRP:CZ2	2.17	0.69
1:A:3322:ALA:HB2	1:A:3333:LEU:HD12	1.74	0.69
1:A:4056:ILE:HD11	1:A:4072:LEU:HD21	1.72	0.69
2:B:436:PHE:HD2	2:B:463:PHE:CZ	2.11	0.69
2:B:669:ILE:HD13	2:B:752:ILE:HD11	1.74	0.69
2:B:744:MET:HE1	2:B:772:ILE:C	2.17	0.69
2:B:871:ILE:HG13	2:B:944:ILE:HD12	1.69	0.69
2:B:1467:PHE:CG	2:B:1470:LEU:HD11	2.28	0.69
2:B:3264:ASN:CA	2:B:3306:ILE:HD11	2.23	0.69
3:C:2903:LEU:HD23	3:C:2903:LEU:C	2.17	0.69
4:D:90:ASP:OD2	13:M:32:LYS:HE3	1.93	0.69
4:D:110:SER:HA	15:O:96:ARG:HG3	1.74	0.69
4:D:174:GLN:HA	13:M:62:GLY:HA2	0.75	0.69
4:D:297:LYS:HZ3	4:D:328:LEU:CD1	2.05	0.69
5:E:100:GLU:HA	5:E:105:PHE:HB3	1.75	0.69
10:J:79:PHE:HA	11:K:68:ALA:CB	2.23	0.69
1:A:598:ARG:NH2	4:D:546:VAL:HG11	2.02	0.69
2:B:957:GLN:HG2	3:C:164:HIS:HE1	0.75	0.69
3:C:352:LEU:O	3:C:352:LEU:HD22	1.93	0.69
5:E:24:GLU:OE2	14:N:91:THR:CG2	2.41	0.69
6:F:73:ASP:OD1	6:F:73:ASP:O	2.11	0.69
10:J:19:LYS:CE	15:O:19:LEU:CD1	2.66	0.69
14:N:8:TYR:CZ	14:N:13:VAL:HG21	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:766:GLY:HA3	1:A:780:TYR:HE1	1.55	0.69
1:A:944:LEU:HD21	1:A:1017:LEU:CD2	2.23	0.69
1:A:1487:VAL:HA	1:A:1490:PHE:CZ	2.27	0.69
1:A:3222:GLU:CB	1:A:3328:ALA:CB	2.70	0.69
1:A:3249:ILE:HG12	1:A:3273:TYR:CA	2.05	0.69
1:A:3273:TYR:CG	1:A:3276:SER:HB3	2.28	0.69
1:A:3293:PHE:CE1	1:A:3335:TRP:CZ2	2.76	0.69
2:B:520:ARG:HH12	2:B:550:MET:HG3	1.44	0.69
2:B:783:MET:CE	2:B:847:VAL:CG2	2.71	0.69
3:C:60:LEU:HD23	3:C:69:TRP:CZ3	2.23	0.69
4:D:517:ILE:HD11	4:D:550:TRP:CZ2	2.28	0.69
7:G:61:GLU:OE1	7:G:61:GLU:N	2.26	0.69
8:H:60:ILE:CG1	9:I:85:TYR:HB3	2.19	0.69
1:A:155:GLY:HA3	2:B:167:GLN:O	1.70	0.68
1:A:933:VAL:CG2	1:A:951:ILE:HD11	2.24	0.68
2:B:309:ASP:O	2:B:313:LEU:N	2.22	0.68
3:C:192:PRO:HG2	3:C:232:TYR:HE2	1.57	0.68
4:D:174:GLN:HB3	12:L:51:LYS:CB	2.22	0.68
4:D:590:LEU:CD2	4:D:604:VAL:CG1	2.68	0.68
6:F:62:VAL:HG21	7:G:106:LEU:CD1	2.13	0.68
12:L:55:LEU:C	12:L:55:LEU:HD23	2.18	0.68
1:A:1126:VAL:CG2	1:A:1131:SER:OG	2.42	0.68
1:A:1433:LEU:HD21	1:A:1481:PHE:CD2	2.28	0.68
1:A:2042:ARG:HG3	1:A:2278:ASN:HA	1.76	0.68
1:A:3702:SER:HB3	1:A:3712:LEU:HD11	1.73	0.68
2:B:408:THR:O	2:B:412:LEU:HB3	1.94	0.68
2:B:501:ARG:HH12	4:D:491:GLN:NE2	1.90	0.68
2:B:669:ILE:O	2:B:719:VAL:HG13	1.93	0.68
2:B:681:LEU:HD11	2:B:705:ALA:HB2	1.73	0.68
2:B:963:PHE:HE1	3:C:83:CYS:SG	2.16	0.68
2:B:1458:PHE:CE1	2:B:1560:MET:O	2.46	0.68
2:B:2333:PRO:CA	20:B:5601:ATP:N1	2.55	0.68
3:C:113:ILE:CD1	3:C:185:PHE:CZ	2.75	0.68
3:C:352:LEU:O	3:C:352:LEU:HD13	1.93	0.68
5:E:20:PHE:CG	15:O:80:LYS:CE	2.61	0.68
5:E:113:LYS:HE2	6:F:10:GLN:HA	1.74	0.68
15:O:19:LEU:HD23	15:O:19:LEU:O	1.94	0.68
1:A:1067:PRO:C	1:A:1078:THR:OG1	2.36	0.68
1:A:3257:VAL:HG11	1:A:3266:VAL:HG22	1.75	0.68
2:B:3:ASP:CB	2:B:7:LYS:N	2.57	0.68
2:B:872:SER:HB2	2:B:965:ILE:HD11	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2013:GLY:CA	19:C:4702:ADP:O2A	2.41	0.68
4:D:89:TYR:CD2	11:K:56:PRO:CG	2.75	0.68
4:D:570:ASP:H	4:D:579:LEU:HD13	1.58	0.68
6:F:54:ASP:OD2	7:G:109:LYS:NZ	2.24	0.68
6:F:56:TRP:CH2	6:F:74:ILE:CG1	2.75	0.68
10:J:21:PHE:CZ	10:J:37:LEU:HD21	2.29	0.68
1:A:670:LEU:HD23	1:A:670:LEU:O	1.94	0.68
1:A:1551:ILE:HA	1:A:1554:LYS:HE2	1.75	0.68
2:B:927:ARG:NH1	2:B:976:LEU:HB3	2.07	0.68
2:B:1132:GLU:O	2:B:1136:ASP:CG	2.36	0.68
3:C:2698:LEU:HD23	3:C:2698:LEU:C	2.18	0.68
3:C:2726:THR:CA	3:C:2729:LEU:HG	2.23	0.68
5:E:110:LYS:CG	6:F:10:GLN:CD	2.67	0.68
11:K:36:TYR:HD2	11:K:41:LYS:HB3	1.58	0.68
1:A:1101:HIS:HA	1:A:1163:LEU:HD12	1.75	0.68
1:A:1458:MET:SD	1:A:1548:TRP:HD1	2.16	0.68
1:A:1517:LEU:HD11	1:A:1582:GLU:HG2	1.74	0.68
1:A:1639:PHE:CE1	1:A:1653:ILE:HG12	2.27	0.68
1:A:3230:LEU:N	1:A:3233:ILE:HG21	2.07	0.68
1:A:3285:ASN:O	1:A:3289:LYS:HG3	1.93	0.68
1:A:3421:SER:HB2	1:A:3716:LEU:HD21	1.76	0.68
3:C:354:VAL:HG21	3:C:357:ILE:CG1	2.21	0.68
3:C:834:VAL:HG22	3:C:881:ILE:HD11	1.75	0.68
4:D:174:GLN:HE21	12:L:51:LYS:N	1.86	0.68
5:E:61:VAL:HG11	10:J:95:PHE:CZ	2.27	0.68
9:I:26:ASN:CB	9:I:98:PHE:HE2	2.04	0.68
1:A:670:LEU:HA	1:A:692:ILE:CD1	2.23	0.68
1:A:821:LEU:O	1:A:912:ARG:HD3	1.94	0.68
1:A:1020:PHE:CE2	1:A:1069:TYR:CE1	2.78	0.68
1:A:3442:LYS:HD2	1:A:3485:THR:N	2.08	0.68
2:B:555:LEU:HD23	2:B:625:LEU:HD22	0.68	0.68
2:B:581:ASN:ND2	5:E:184:MET:HE1	2.08	0.68
2:B:1467:PHE:CB	2:B:1470:LEU:CD1	2.40	0.68
2:B:2192:CYS:SG	20:B:5601:ATP:C8	2.87	0.68
3:C:24:HIS:CD2	3:C:325:SER:OG	2.45	0.68
3:C:250:LYS:HG3	3:C:273:VAL:HG12	1.75	0.68
3:C:336:ILE:HD12	3:C:336:ILE:N	2.08	0.68
1:A:791:LEU:O	1:A:795:ILE:HG13	1.94	0.68
1:A:818:LEU:HB2	1:A:844:LYS:HG3	1.76	0.68
1:A:871:LEU:HD23	1:A:875:VAL:HG11	1.72	0.68
1:A:3191:LYS:HE2	1:A:3360:GLU:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:899:LEU:HD12	2:B:900:PHE:H	1.57	0.68
3:C:113:ILE:HD11	3:C:185:PHE:CE1	2.29	0.68
3:C:2796:PRO:HD2	3:C:2796:PRO:O	1.93	0.68
4:D:499:HIS:CD2	4:D:528:TRP:HH2	2.11	0.68
5:E:456:PRO:HD2	5:E:481:GLN:HB3	1.74	0.68
6:F:81:THR:HG22	7:G:123:LEU:HD23	1.76	0.68
8:H:11:ILE:HG22	8:H:79:LEU:HB3	1.74	0.68
9:I:20:ILE:C	9:I:100:ASN:HD21	2.02	0.68
12:L:28:GLN:HA	12:L:28:GLN:NE2	2.07	0.68
1:A:722:LYS:O	1:A:726:TYR:CD2	2.43	0.68
1:A:755:HIS:CE1	1:A:869:TYR:CG	2.81	0.68
1:A:805:ARG:HH12	5:E:152:LEU:HD11	1.59	0.68
2:B:551:TYR:HD2	2:B:622:VAL:CG1	2.06	0.68
2:B:883:ASN:CA	2:B:886:ILE:HG22	2.24	0.68
2:B:963:PHE:CD2	3:C:103:THR:HA	2.29	0.68
2:B:1529:TYR:HB2	2:B:1549:PHE:HZ	1.58	0.68
4:D:401:GLN:HB3	4:D:417:ILE:CG2	2.23	0.68
4:D:517:ILE:CD1	4:D:527:ILE:CG1	2.71	0.68
5:E:423:GLY:HA2	5:E:505:ILE:HD12	1.74	0.68
7:G:58:SER:C	7:G:59:GLU:HA	2.18	0.68
1:A:837:GLN:NE2	1:A:958:ALA:HB1	2.01	0.68
1:A:1100:LEU:HD22	1:A:1163:LEU:HD12	1.76	0.68
1:A:1596:ARG:HH21	1:A:1610:LEU:HD23	1.58	0.68
1:A:3317:PHE:HD1	1:A:3333:LEU:CD2	2.06	0.68
2:B:58:SER:N	2:B:70:LYS:C	2.51	0.68
2:B:746:GLU:O	2:B:750:PRO:HD3	1.93	0.68
2:B:1531:ILE:HD13	2:B:1618:LEU:CD2	2.24	0.68
2:B:3067:ILE:HD11	2:B:3119:LYS:CD	2.22	0.68
5:E:30:ILE:HD12	5:E:30:ILE:O	1.94	0.68
1:A:1597:LYS:HZ2	1:A:1962:ILE:CD1	2.05	0.68
1:A:1632:ASP:OD1	1:A:1842:LYS:NZ	2.27	0.68
2:B:1447:ILE:HG12	2:B:1480:HIS:ND1	2.09	0.68
3:C:2018:GLN:HG3	19:C:4702:ADP:C2'	2.24	0.68
4:D:77:PRO:HA	15:O:102:LEU:HD23	1.76	0.68
4:D:170:THR:CG2	13:M:66:ILE:CB	2.53	0.68
4:D:177:ASN:OD1	13:M:60:ASN:CG	2.36	0.68
5:E:50:LEU:CD2	12:L:23:PHE:HB2	2.24	0.68
6:F:19:GLY:CA	6:F:107:ILE:HD11	2.23	0.68
15:O:31:PRO:HB3	15:O:109:ASN:HD21	1.59	0.68
1:A:607:ILE:HD13	1:A:655:PHE:HD2	1.59	0.67
1:A:3124:ILE:HD13	1:A:3425:GLU:CG	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:888:PRO:CA	2:B:891:ILE:HG22	2.24	0.67
2:B:969:LEU:O	2:B:969:LEU:HD23	1.93	0.67
2:B:1058:LYS:HB2	2:B:1166:GLU:CG	2.24	0.67
2:B:1238:LYS:NZ	2:B:1308:LEU:CA	2.57	0.67
2:B:3178:VAL:HG12	2:B:3395:LEU:HD11	1.75	0.67
5:E:48:ILE:CG1	12:L:88:PHE:CZ	2.77	0.67
12:L:59:LYS:HB2	12:L:59:LYS:HZ2	1.59	0.67
14:N:70:THR:OG1	14:N:111:SER:OG	2.12	0.67
1:A:670:LEU:HD23	1:A:670:LEU:C	2.19	0.67
1:A:794:LEU:HD13	1:A:794:LEU:O	1.95	0.67
1:A:1100:LEU:HD21	1:A:1159:MET:HE3	1.75	0.67
1:A:1504:VAL:CG2	1:A:1565:CYS:HB3	2.16	0.67
1:A:1642:ALA:HB3	1:A:1652:GLN:HB2	1.76	0.67
1:A:3124:ILE:CD1	1:A:3425:GLU:HG3	2.24	0.67
1:A:3273:TYR:HD1	1:A:3276:SER:N	1.90	0.67
2:B:658:GLN:CD	2:B:672:ASN:O	2.37	0.67
2:B:658:GLN:NE2	2:B:672:ASN:OD1	2.24	0.67
2:B:899:LEU:CD1	2:B:900:PHE:CD1	2.77	0.67
3:C:359:GLY:CA	3:C:440:TYR:CB	2.72	0.67
10:J:38:GLU:OE2	15:O:29:PHE:HE2	1.71	0.67
10:J:82:LYS:HG3	11:K:65:HIS:HE2	1.59	0.67
1:A:307:LEU:O	1:A:311:LYS:CB	2.42	0.67
2:B:99:LEU:O	2:B:100:THR:C	2.35	0.67
2:B:861:ASP:OD2	3:C:170:GLN:CD	2.36	0.67
2:B:973:THR:HG21	3:C:343:ASN:C	2.19	0.67
2:B:4314:ILE:HD12	2:B:4391:ILE:HG23	1.76	0.67
4:D:177:ASN:CG	13:M:60:ASN:CG	2.62	0.67
6:F:37:GLU:OE1	6:F:37:GLU:HA	1.94	0.67
9:I:24:ILE:HG23	9:I:98:PHE:CD1	2.29	0.67
10:J:52:GLU:OE1	10:J:52:GLU:N	2.18	0.67
12:L:77:ILE:HA	13:M:63:SER:OG	1.95	0.67
12:L:77:ILE:HG13	13:M:65:ILE:HD11	1.73	0.67
13:M:71:LYS:HG3	13:M:86:LYS:HD3	1.74	0.67
1:A:1458:MET:HE3	1:A:1518:TRP:CH2	2.28	0.67
1:A:1515:GLN:O	1:A:1519:THR:OG1	2.10	0.67
2:B:409:SER:O	2:B:413:PHE:CA	2.43	0.67
2:B:783:MET:CE	2:B:847:VAL:HG21	2.25	0.67
3:C:10:LEU:HD21	3:C:66:ASN:N	2.08	0.67
3:C:52:ALA:HB1	3:C:53:PRO:HD3	1.75	0.67
3:C:346:LEU:H	3:C:346:LEU:HD13	1.60	0.67
3:C:2902:ALA:HB1	3:C:3193:LEU:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:97:LYS:HE3	13:M:32:LYS:HE2	1.75	0.67
10:J:61:ALA:HA	10:J:80:PHE:HE2	1.57	0.67
1:A:596:LEU:HD23	1:A:602:PRO:HA	1.74	0.67
1:A:841:ILE:HD13	1:A:961:ALA:CB	2.23	0.67
1:A:943:THR:CA	1:A:944:LEU:N	2.57	0.67
1:A:1511:TRP:CA	1:A:1574:LEU:CD1	2.73	0.67
2:B:555:LEU:HG	2:B:625:LEU:CD2	2.24	0.67
2:B:736:LEU:HD12	2:B:859:TYR:CG	2.29	0.67
4:D:109:PHE:CE2	15:O:121:TYR:HD2	2.12	0.67
10:J:48:LEU:HD12	10:J:100:ILE:HD12	1.74	0.67
12:L:75:GLN:HB2	13:M:65:ILE:HG23	1.76	0.67
1:A:1448:GLY:N	1:A:1460:ASN:O	2.27	0.67
1:A:3236:ILE:CG2	1:A:3333:LEU:CA	2.72	0.67
2:B:3289:ALA:O	2:B:3293:LYS:HG3	1.95	0.67
2:B:3764:LEU:HD11	2:B:3816:LEU:HD21	1.77	0.67
3:C:163:GLY:HA2	3:C:174:PHE:CD2	2.30	0.67
3:C:2708:GLN:NE2	3:C:2813:ILE:HG13	2.09	0.67
5:E:46:ASN:OD1	12:L:88:PHE:CZ	2.47	0.67
6:F:81:THR:OG1	7:G:121:ASN:ND2	2.28	0.67
2:B:36:ALA:H	2:B:39:ASP:CB	2.06	0.67
2:B:3267:ILE:CG2	2:B:3271:ASP:HB2	2.24	0.67
3:C:29:VAL:CG2	3:C:92:ALA:O	2.42	0.67
3:C:85:HIS:HA	3:C:99:GLY:O	1.95	0.67
3:C:2804:ALA:HA	3:C:2811:LYS:HB2	1.75	0.67
4:D:201:GLN:OE1	9:I:102:ASN:HA	1.93	0.67
5:E:21:GLN:HG2	5:E:21:GLN:O	1.95	0.67
5:E:23:THR:HG23	14:N:88:TYR:CD1	2.29	0.67
15:O:34:ILE:HG23	15:O:71:ILE:HD12	1.76	0.67
1:A:604:ALA:HB3	1:A:698:GLU:CG	2.24	0.67
2:B:669:ILE:CD1	2:B:752:ILE:HD11	2.25	0.67
2:B:3938:MET:HA	2:B:3938:MET:HE2	1.76	0.67
4:D:395:HIS:CG	4:D:418:SER:HB3	2.30	0.67
1:A:670:LEU:CD2	1:A:772:TRP:HD1	2.01	0.67
1:A:871:LEU:CD2	1:A:875:VAL:HG13	2.19	0.67
1:A:1445:PHE:HE2	1:A:1564:CYS:CB	1.68	0.67
2:B:429:LEU:HD11	2:B:489:PHE:CD1	2.30	0.67
2:B:804:ARG:NH1	2:B:898:PRO:O	2.28	0.67
2:B:957:GLN:HB2	3:C:220:TRP:CZ3	2.26	0.67
2:B:1119:LYS:HB3	2:B:1138:LYS:HZ3	1.59	0.67
3:C:258:ALA:HB1	3:C:357:ILE:HD13	1.77	0.67
3:C:2708:GLN:OE1	3:C:2813:ILE:CD1	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:288:ARG:NH1	4:D:585:VAL:HG11	2.10	0.67
4:D:532:TYR:CZ	4:D:652:MET:HE2	2.30	0.67
8:H:60:ILE:HA	9:I:85:TYR:HB3	1.75	0.67
10:J:32:CYS:SG	10:J:96:ILE:HG12	2.33	0.67
13:M:84:LEU:HD12	13:M:84:LEU:O	1.95	0.67
14:N:72:ILE:CB	15:O:97:ILE:CD1	2.73	0.67
1:A:1418:ASP:CG	1:A:3604:LYS:HZ2	1.98	0.67
1:A:2037:GLN:HE22	1:A:4479:GLN:HE22	1.42	0.67
2:B:10:PRO:C	2:B:25:GLN:CA	2.60	0.67
2:B:531:LEU:HD21	2:B:540:LEU:HD11	1.71	0.67
2:B:789:LYS:CG	2:B:839:LEU:CD1	2.66	0.67
2:B:1531:ILE:HD12	2:B:1595:LEU:HD13	1.75	0.67
2:B:2189:GLY:HA2	20:B:5601:ATP:C5'	2.25	0.67
2:B:3302:ILE:CG2	2:B:3303:GLU:N	2.53	0.67
2:B:3829:VAL:HG11	2:B:3946:ILE:CD1	2.25	0.67
6:F:11:LEU:CB	6:F:23:TYR:OH	2.34	0.67
11:K:89:LEU:HD12	11:K:89:LEU:C	2.21	0.67
1:A:7:SER:C	1:A:9:ARG:H	2.02	0.66
1:A:57:TYR:CA	1:A:103:ASP:HA	2.24	0.66
1:A:659:TRP:CE2	1:A:702:LEU:HD11	2.29	0.66
1:A:818:LEU:O	1:A:818:LEU:HD22	1.95	0.66
1:A:935:VAL:HG11	1:A:1017:LEU:CD2	2.25	0.66
1:A:1100:LEU:CD2	1:A:1163:LEU:HD12	2.25	0.66
1:A:3117:PHE:CE2	1:A:3429:TRP:CZ3	2.83	0.66
1:A:3335:TRP:CZ2	1:A:3339:ILE:HD11	2.29	0.66
2:B:583:PRO:HB3	2:B:683:GLU:CG	2.23	0.66
2:B:3173:ILE:HG22	2:B:3177:LYS:HE3	1.76	0.66
3:C:2018:GLN:CD	19:C:4702:ADP:H2'	2.19	0.66
4:D:285:PRO:CB	4:D:584:ILE:HG22	2.25	0.66
5:E:48:ILE:CG1	12:L:88:PHE:HZ	2.04	0.66
7:G:111:ARG:HH21	7:G:139:PRO:HB2	1.60	0.66
8:H:70:THR:O	9:I:76:GLN:NE2	2.27	0.66
9:I:19:MET:HB2	9:I:22:LYS:CG	2.25	0.66
1:A:806:ILE:CD1	1:A:890:TYR:CE2	2.78	0.66
1:A:886:ILE:O	1:A:890:TYR:HD1	1.78	0.66
1:A:944:LEU:HD21	1:A:1017:LEU:HD21	1.76	0.66
1:A:1570:LEU:H	1:A:1570:LEU:HD12	1.60	0.66
2:B:673:PHE:CE1	2:B:677:LEU:CD1	2.76	0.66
2:B:792:LYS:HE3	2:B:796:ASN:ND2	2.10	0.66
2:B:1127:ASN:HB2	2:B:1128:PRO:HD2	1.77	0.66
2:B:1238:LYS:HE2	2:B:1308:LEU:CA	2.06	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:36:PHE:CE2	3:C:97:VAL:HG11	2.30	0.66
3:C:2740:ILE:CG1	3:C:2744:LYS:CB	2.58	0.66
5:E:68:THR:HB	8:H:70:THR:HG22	1.77	0.66
15:O:52:ASP:N	15:O:53:PRO:CD	2.58	0.66
1:A:3220:ILE:HG22	1:A:3224:LYS:HE3	1.75	0.66
2:B:794:LEU:HB3	2:B:797:PHE:HE2	1.59	0.66
2:B:837:GLN:OE1	2:B:837:GLN:HA	1.95	0.66
2:B:1429:GLU:O	2:B:1433:VAL:HG23	1.95	0.66
2:B:2863:VAL:HG21	2:B:3059:VAL:HG22	1.77	0.66
3:C:2581:LEU:CD1	3:C:2937:TYR:CZ	2.79	0.66
7:G:119:PRO:HG3	9:I:16:ARG:NH2	2.10	0.66
1:A:634:ILE:HG23	1:A:638:TYR:CZ	2.25	0.66
1:A:1134:TYR:HD2	1:A:1268:ARG:NE	1.93	0.66
1:A:1143:ARG:HD3	4:D:171:ARG:HE	1.61	0.66
1:A:1500:THR:HG23	1:A:1566:GLN:NE2	2.07	0.66
3:C:143:PRO:HG3	3:C:187:TRP:NE1	2.10	0.66
3:C:2726:THR:HA	3:C:2729:LEU:HG	1.74	0.66
4:D:175:THR:CB	13:M:61:PHE:H	2.08	0.66
9:I:51:ALA:HB1	9:I:52:PRO:HD2	1.78	0.66
10:J:43:GLU:OE2	10:J:43:GLU:HA	1.96	0.66
1:A:669:ALA:HB1	1:A:689:ASP:OD2	1.95	0.66
1:A:1450:TRP:CD1	1:A:1518:TRP:HZ3	2.14	0.66
1:A:3099:TYR:CE1	1:A:3447:VAL:HG12	2.31	0.66
1:A:3290:LEU:HD21	1:A:3335:TRP:CH2	2.29	0.66
2:B:700:ASP:O	2:B:703:THR:OG1	2.14	0.66
2:B:762:ILE:O	2:B:766:ILE:HG13	1.95	0.66
3:C:39:LEU:O	3:C:39:LEU:HD13	1.95	0.66
5:E:16:ASN:CB	15:O:132:GLU:CB	2.52	0.66
5:E:80:TRP:O	8:H:80:TYR:CZ	2.48	0.66
5:E:112:LEU:CD2	6:F:97:MET:CE	2.74	0.66
14:N:89:GLN:HG2	14:N:94:ASP:CB	2.20	0.66
15:O:30:TYR:H	15:O:31:PRO:HD2	1.53	0.66
1:A:617:ILE:CD1	1:A:647:GLN:HE22	2.02	0.66
1:A:739:ARG:HH11	1:A:743:LYS:NZ	1.92	0.66
1:A:761:LEU:HD21	1:A:874:HIS:NE2	2.11	0.66
1:A:763:LEU:C	1:A:763:LEU:CD1	2.67	0.66
1:A:1143:ARG:CZ	4:D:169:ASN:HD22	2.03	0.66
2:B:682:LYS:HZ3	5:E:186:PHE:HD1	1.21	0.66
2:B:1119:LYS:HB3	2:B:1138:LYS:HD3	1.77	0.66
2:B:1507:LYS:CD	2:B:1571:GLU:OE1	2.41	0.66
2:B:3453:LEU:HD22	2:B:3492:ILE:HD12	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:398:PRO:HD2	4:D:398:PRO:O	1.93	0.66
5:E:112:LEU:HD23	6:F:97:MET:HE2	1.77	0.66
6:F:45:ALA:HA	6:F:48:ILE:HG22	1.77	0.66
9:I:77:CYS:CB	9:I:107:ILE:HG22	2.24	0.66
1:A:753:LEU:HD23	1:A:753:LEU:C	2.20	0.66
1:A:2298:LEU:HD11	20:A:4801:ATP:C6	2.30	0.66
2:B:713:VAL:HG11	5:E:258:GLU:CA	2.26	0.66
2:B:718:ILE:CD1	2:B:773:VAL:CB	2.72	0.66
2:B:1069:THR:HB	2:B:1070:PRO:CD	2.25	0.66
2:B:1608:ARG:HG3	2:B:1638:PHE:HE1	1.58	0.66
3:C:2746:PRO:CD	3:C:2747:LYS:H	2.03	0.66
4:D:170:THR:HG21	13:M:66:ILE:CD1	2.23	0.66
6:F:91:GLN:CG	6:F:96:THR:HG21	2.17	0.66
1:A:613:LEU:HD21	4:D:523:TRP:CZ2	2.31	0.66
1:A:755:HIS:ND1	1:A:869:TYR:CE2	2.44	0.66
2:B:938:PHE:HD2	2:B:956:LEU:HD11	1.59	0.66
2:B:1595:LEU:HD23	2:B:1595:LEU:O	1.96	0.66
2:B:3234:LEU:HD11	2:B:3336:LEU:CD2	2.26	0.66
4:D:109:PHE:CD2	15:O:121:TYR:HE2	2.13	0.66
4:D:571:LEU:HD13	4:D:647:TYR:CD2	2.31	0.66
5:E:492:ASP:HA	5:E:495:TYR:CD2	2.28	0.66
18:R:98:MET:C	18:R:100:GLY:H	2.03	0.66
1:A:1029:GLU:HA	1:A:1088:TRP:HZ2	1.60	0.66
2:B:1116:PHE:N	2:B:1119:LYS:NZ	2.44	0.66
3:C:192:PRO:CG	3:C:232:TYR:HE2	2.09	0.66
5:E:435:ASP:HB2	5:E:446:ILE:HG21	1.75	0.66
6:F:50:ALA:HB2	8:H:83:GLN:CG	2.26	0.66
10:J:101:GLU:OE1	10:J:101:GLU:HA	1.95	0.66
15:O:95:LEU:HD12	15:O:95:LEU:C	2.20	0.66
1:A:791:LEU:HD11	1:A:795:ILE:HD11	1.77	0.66
1:A:1126:VAL:O	1:A:1126:VAL:HG12	1.95	0.66
1:A:2298:LEU:HD21	20:A:4801:ATP:C8	2.31	0.66
1:A:3307:GLU:N	1:A:3308:PRO:HD2	2.11	0.66
1:A:3345:LYS:HE3	1:A:3345:LYS:HA	1.77	0.66
2:B:492:PHE:HA	2:B:495:LYS:HD2	1.77	0.66
2:B:1470:LEU:C	2:B:1474:MET:HG2	2.21	0.66
2:B:1474:MET:HE1	2:B:1515:VAL:CG1	2.23	0.66
3:C:34:ILE:HG23	3:C:57:VAL:CG1	2.26	0.66
4:D:397:ASP:HB3	4:D:419:SER:HB3	1.78	0.66
5:E:58:GLU:HB3	10:J:89:VAL:HG22	1.78	0.66
5:E:82:GLY:CA	8:H:12:LYS:HZ3	1.98	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:420:THR:CG2	5:E:472:SER:O	2.42	0.66
1:A:1088:TRP:CE2	1:A:1092:TRP:NE1	2.59	0.65
1:A:1596:ARG:NH1	1:A:1909:LYS:HE3	2.11	0.65
1:A:3267:LEU:N	1:A:3267:LEU:HD12	2.12	0.65
2:B:411:ALA:HA	2:B:414:VAL:HG23	1.78	0.65
2:B:429:LEU:HD11	2:B:489:PHE:CE1	2.31	0.65
2:B:794:LEU:CA	2:B:797:PHE:HD2	2.02	0.65
2:B:799:VAL:HB	2:B:800:LYS:N	2.09	0.65
2:B:1423:TYR:O	2:B:1427:VAL:HG23	1.96	0.65
3:C:360:PRO:N	3:C:361:PRO:HD2	2.10	0.65
3:C:2774:VAL:HG12	3:C:2780:VAL:HG22	1.78	0.65
4:D:106:ILE:CD1	15:O:99:SER:OG	2.39	0.65
4:D:417:ILE:CD1	4:D:474:VAL:HG23	2.26	0.65
7:G:125:PHE:CZ	7:G:136:MET:HE2	2.31	0.65
8:H:12:LYS:HE2	8:H:80:TYR:CZ	2.30	0.65
9:I:81:GLU:OE1	9:I:102:ASN:CB	2.44	0.65
10:J:77:HIS:ND1	11:K:70:VAL:HG23	2.05	0.65
1:A:121:GLY:N	2:B:106:LYS:HA	2.06	0.65
1:A:332:PRO:N	1:A:380:ARG:CB	2.59	0.65
1:A:970:TYR:C	1:A:983:ALA:O	2.39	0.65
1:A:3651:GLN:HE22	1:A:3837:THR:HG22	1.60	0.65
2:B:655:LYS:CE	2:B:708:TYR:OH	2.38	0.65
2:B:732:VAL:O	2:B:735:PRO:HG2	1.95	0.65
2:B:1377:PRO:CB	2:B:1424:GLU:OE2	2.44	0.65
3:C:1738:PHE:CE2	3:C:1770:MET:HE1	2.31	0.65
5:E:99:ILE:HD11	6:F:31:ILE:CD1	2.19	0.65
5:E:117:GLU:HG3	6:F:17:LEU:CG	2.21	0.65
8:H:16:MET:HE2	8:H:77:ILE:HD12	1.78	0.65
15:O:45:ARG:CG	15:O:63:LEU:CD1	2.74	0.65
2:B:731:PRO:O	2:B:735:PRO:HD3	1.96	0.65
2:B:910:GLY:HA2	2:B:995:TYR:HD1	1.59	0.65
2:B:1119:LYS:HB3	2:B:1138:LYS:CD	2.25	0.65
2:B:1242:GLN:O	2:B:1251:SER:CA	2.44	0.65
2:B:1705:LYS:HG2	2:B:1825:TRP:CD1	2.32	0.65
3:C:287:PHE:HB3	3:C:320:PRO:HB2	1.78	0.65
4:D:134:LYS:HB2	4:D:134:LYS:NZ	2.11	0.65
4:D:170:THR:CG2	13:M:66:ILE:HA	2.21	0.65
4:D:421:GLY:HA3	4:D:441:LEU:CD1	2.22	0.65
5:E:258:GLU:H	5:E:258:GLU:CD	2.03	0.65
1:A:614:PHE:CE1	1:A:648:LEU:HG	2.31	0.65
1:A:728:ASN:ND2	4:D:396:THR:CG2	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:883:ASN:HA	2:B:886:ILE:HG23	1.76	0.65
2:B:1116:PHE:CA	2:B:1119:LYS:HZ2	2.07	0.65
4:D:175:THR:HG1	13:M:61:PHE:H	1.37	0.65
4:D:590:LEU:N	4:D:590:LEU:HD12	2.11	0.65
5:E:24:GLU:CD	14:N:91:THR:HG22	2.21	0.65
5:E:48:ILE:CA	12:L:88:PHE:HE2	2.08	0.65
6:F:56:TRP:HZ2	6:F:91:GLN:OE1	1.65	0.65
12:L:77:ILE:N	12:L:77:ILE:HD12	2.11	0.65
1:A:906:LEU:CD1	1:A:998:VAL:CG1	1.85	0.65
1:A:3215:ILE:HG21	1:A:3219:ASP:CG	2.19	0.65
1:A:3442:LYS:HD2	1:A:3485:THR:HA	1.77	0.65
2:B:3826:THR:HG22	2:B:3942:LEU:HD21	1.77	0.65
4:D:572:ASN:HD21	4:D:643:LYS:HD2	1.61	0.65
5:E:258:GLU:OE1	5:E:258:GLU:N	2.19	0.65
8:H:52:ARG:HA	18:R:63:ASN:CA	2.26	0.65
15:O:22:LEU:HD12	15:O:23:ASN:OD1	1.93	0.65
1:A:580:LEU:HD21	1:A:640:SER:N	2.12	0.65
1:A:666:SER:CB	1:A:695:LEU:HD13	2.27	0.65
1:A:906:LEU:HB3	1:A:998:VAL:CG1	2.26	0.65
1:A:1862:MET:HE1	1:A:1920:TRP:CH2	2.31	0.65
1:A:3212:VAL:HG23	1:A:3338:ALA:HB1	1.79	0.65
1:A:3236:ILE:CA	1:A:3333:LEU:CD2	2.59	0.65
1:A:3446:ASN:OD1	1:A:3488:LEU:CD2	2.40	0.65
2:B:501:ARG:NH1	4:D:491:GLN:OE1	2.19	0.65
2:B:736:LEU:CD1	2:B:859:TYR:CB	2.72	0.65
2:B:1116:PHE:HA	2:B:1119:LYS:HZ3	1.62	0.65
2:B:1329:PRO:CB	2:B:1413:GLU:N	2.59	0.65
2:B:3235:LYS:HB3	2:B:3237:PRO:HD2	1.77	0.65
2:B:3445:LYS:CG	2:B:3487:PRO:HB3	2.27	0.65
3:C:972:LEU:HD21	3:C:1017:MET:CE	2.27	0.65
3:C:2720:PRO:HB3	3:C:2798:PHE:CE2	2.04	0.65
4:D:331:LEU:HD12	4:D:331:LEU:N	2.11	0.65
5:E:394:TRP:HE1	5:E:401:PRO:CD	2.10	0.65
12:L:75:GLN:CB	13:M:65:ILE:HG23	2.19	0.65
1:A:50:LEU:O	1:A:102:ALA:CB	2.40	0.65
1:A:598:ARG:CZ	4:D:546:VAL:CG1	2.74	0.65
1:A:847:PHE:HZ	1:A:851:LYS:HZ2	1.45	0.65
1:A:1013:VAL:CA	1:A:1016:PHE:HE1	2.09	0.65
1:A:1205:GLN:HE21	1:A:1272:LEU:HB3	1.61	0.65
3:C:2698:LEU:HD11	3:C:2768:LEU:O	1.97	0.65
4:D:148:GLU:CG	4:D:149:PRO:CD	2.68	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:170:THR:CG2	13:M:66:ILE:HG13	2.16	0.65
6:F:56:TRP:CD2	6:F:91:GLN:CD	2.72	0.65
1:A:1642:ALA:HB2	1:A:1652:GLN:CB	2.26	0.65
2:B:441:LYS:O	5:E:518:ASN:ND2	2.30	0.65
2:B:927:ARG:HH12	2:B:976:LEU:CB	2.10	0.65
2:B:1058:LYS:HD3	2:B:1167:MET:SD	2.37	0.65
2:B:1559:MET:HG2	2:B:1577:ARG:NH2	2.07	0.65
2:B:3300:GLU:OE2	2:B:3354:LYS:HE3	1.91	0.65
3:C:268:ILE:HD13	3:C:301:TRP:CH2	2.32	0.65
3:C:3732:HIS:CG	3:C:3757:LEU:HD12	2.32	0.65
4:D:292:GLU:H	4:D:292:GLU:CD	2.04	0.65
5:E:377:ASN:HD22	5:E:377:ASN:N	1.94	0.65
15:O:95:LEU:HD12	15:O:95:LEU:O	1.96	0.65
1:A:596:LEU:HD12	1:A:596:LEU:N	2.12	0.65
1:A:948:LEU:CG	1:A:1010:LYS:HG2	2.26	0.65
1:A:1596:ARG:HG2	1:A:1603:TYR:CZ	2.32	0.65
1:A:2696:MET:HE2	19:A:4701:ADP:C8	2.32	0.65
2:B:724:HIS:CE1	2:B:728:CYS:SG	2.90	0.65
3:C:114:LEU:HD13	3:C:114:LEU:O	1.97	0.65
4:D:297:LYS:HB3	4:D:316:LEU:HB3	1.77	0.65
11:K:84:GLN:OE1	11:K:84:GLN:N	2.27	0.65
1:A:952:GLN:HG2	1:A:1006:ILE:HG21	1.79	0.65
1:A:1031:ILE:CG2	1:A:1034:SER:HG	2.10	0.65
1:A:1162:LEU:HD23	1:A:1162:LEU:C	2.22	0.65
2:B:973:THR:CB	3:C:344:ASN:HB2	2.27	0.65
2:B:3118:TYR:CB	2:B:3455:SER:CB	2.70	0.65
3:C:2730:LEU:HD12	3:C:2730:LEU:N	2.12	0.65
4:D:93:THR:HG22	4:D:95:LYS:HG2	1.78	0.65
4:D:265:ARG:HB2	5:E:125:GLN:CG	2.27	0.65
4:D:569:TYR:HH	4:D:578:LYS:CD	1.99	0.65
6:F:74:ILE:HA	7:G:130:THR:HA	1.79	0.65
10:J:29:PRO:HB3	15:O:106:GLN:HE22	1.62	0.65
10:J:48:LEU:HD23	10:J:60:ILE:HD13	1.77	0.65
10:J:97:TYR:HB2	10:J:106:LEU:HD13	1.79	0.65
1:A:95:PHE:C	1:A:124:THR:CB	2.70	0.64
1:A:95:PHE:CA	1:A:124:THR:CB	2.75	0.64
1:A:690:LEU:N	1:A:690:LEU:HD12	2.12	0.64
1:A:1162:LEU:HD23	1:A:1162:LEU:O	1.97	0.64
2:B:433:ILE:CG2	2:B:463:PHE:CZ	2.45	0.64
2:B:954:ASP:OD2	3:C:282:ARG:HD3	1.97	0.64
2:B:1237:ARG:HH21	2:B:1262:ASP:CB	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1612:LEU:HD21	2:B:1637:CYS:SG	2.36	0.64
2:B:3453:LEU:HD22	2:B:3492:ILE:CD1	2.27	0.64
3:C:180:LEU:HD23	3:C:187:TRP:CE2	2.32	0.64
3:C:2771:PHE:O	3:C:2775:VAL:HG23	1.97	0.64
3:C:4049:ILE:HD11	3:C:4110:ALA:HB1	1.80	0.64
5:E:72:GLY:HA2	8:H:68:PHE:HA	1.79	0.64
8:H:35:CYS:HB3	8:H:40:GLU:HB3	1.79	0.64
10:J:77:HIS:CG	11:K:70:VAL:HG23	2.32	0.64
10:J:79:PHE:CG	11:K:68:ALA:HB1	2.32	0.64
1:A:1069:TYR:CD1	1:A:1078:THR:CG2	2.80	0.64
1:A:3312:GLN:HG2	1:A:3312:GLN:O	1.97	0.64
2:B:3231:VAL:O	2:B:3339:TRP:CD1	2.50	0.64
3:C:269:PHE:HB2	3:C:291:SER:HB3	1.77	0.64
3:C:272:SER:OG	3:C:322:GLU:HG3	1.96	0.64
5:E:395:VAL:HG22	5:E:402:ILE:HD12	1.75	0.64
9:I:67:LEU:HD12	9:I:75:TRP:CE2	2.32	0.64
10:J:79:PHE:CE2	11:K:88:LEU:HD23	2.32	0.64
17:Q:175:ASN:HA	17:Q:179:MET:O	1.98	0.64
1:A:761:LEU:C	1:A:761:LEU:CD1	2.70	0.64
1:A:992:ASP:OD2	1:A:995:ILE:HG12	1.97	0.64
1:A:1201:TYR:HA	1:A:1204:LYS:HB2	1.79	0.64
1:A:3121:LEU:HD23	1:A:3429:TRP:HB2	1.64	0.64
2:B:595:LEU:HD23	5:E:389:TRP:CH2	2.33	0.64
2:B:844:LEU:HD23	2:B:844:LEU:C	2.22	0.64
2:B:963:PHE:CE2	3:C:103:THR:N	2.66	0.64
2:B:970:ALA:HB3	3:C:345:TRP:CZ3	1.86	0.64
3:C:2431:ILE:HG23	3:C:2486:MET:HE1	1.78	0.64
3:C:2606:GLY:CA	3:C:2910:TRP:CZ3	2.80	0.64
4:D:543:MET:SD	4:D:563:MET:HB3	2.36	0.64
7:G:79:VAL:HG23	7:G:146:ILE:HD12	1.79	0.64
1:A:14:LYS:CA	2:B:19:SER:O	2.45	0.64
1:A:598:ARG:HD3	4:D:319:TYR:HE1	1.60	0.64
1:A:694:GLN:HA	4:D:321:PHE:CZ	2.33	0.64
1:A:791:LEU:CD1	1:A:795:ILE:HD11	2.28	0.64
1:A:906:LEU:CD1	1:A:998:VAL:CG2	2.75	0.64
1:A:948:LEU:HD22	1:A:948:LEU:N	2.13	0.64
2:B:59:THR:H	2:B:82:ASP:C	2.06	0.64
2:B:446:GLY:CA	5:E:512:GLU:OE2	2.43	0.64
2:B:642:LEU:C	2:B:642:LEU:HD13	2.21	0.64
2:B:3231:VAL:HG13	2:B:3339:TRP:CD1	2.32	0.64
3:C:159:TYR:HD1	3:C:179:VAL:HG21	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:510:ASN:HD22	4:D:552:PRO:HA	1.61	0.64
5:E:190:PRO:HD2	5:E:193:MET:HE2	1.77	0.64
5:E:271:LEU:N	5:E:271:LEU:HD12	2.13	0.64
10:J:19:LYS:HG2	10:J:28:TRP:CD2	2.33	0.64
14:N:81:ILE:HA	15:O:87:PHE:O	1.98	0.64
1:A:576:TYR:CE1	1:A:624:PHE:N	2.65	0.64
1:A:597:VAL:O	1:A:600:MET:HB2	1.98	0.64
1:A:1066:VAL:HG12	1:A:1068:THR:H	1.61	0.64
1:A:1487:VAL:HA	1:A:1490:PHE:CE2	2.32	0.64
2:B:1212:ILE:HG22	2:B:1213:PRO:HD2	1.78	0.64
4:D:91:TYR:HE2	13:M:80:LEU:CB	1.94	0.64
4:D:532:TYR:OH	4:D:652:MET:HE2	1.96	0.64
5:E:252:ILE:HG13	5:E:253:MET:HG2	1.79	0.64
5:E:384:LEU:CD2	5:E:417:TRP:NE1	2.61	0.64
8:H:62:GLY:HA2	9:I:83:TYR:HA	1.79	0.64
9:I:5:LYS:HA	9:I:9:ASP:HB2	1.78	0.64
1:A:644:LEU:HA	1:A:647:GLN:HG3	1.79	0.64
1:A:1118:LEU:HD22	1:A:1118:LEU:H	1.61	0.64
1:A:3249:ILE:HD11	1:A:3273:TYR:CA	2.27	0.64
2:B:730:LEU:HD12	2:B:787:LEU:HD12	1.80	0.64
2:B:969:LEU:HD22	3:C:343:ASN:HA	1.80	0.64
3:C:2669:ILE:CD1	3:C:2847:ALA:HB3	2.09	0.64
4:D:172:GLU:HB2	12:L:51:LYS:HG2	1.80	0.64
4:D:348:ALA:HB1	4:D:368:TYR:HB2	1.80	0.64
5:E:22:ASP:HB2	14:N:91:THR:N	2.12	0.64
8:H:70:THR:H	9:I:76:GLN:HG2	1.62	0.64
2:B:58:SER:H	2:B:71:CYS:CB	2.05	0.64
2:B:552:LYS:HG3	2:B:622:VAL:HG22	1.79	0.64
2:B:3133:ILE:HG12	2:B:3440:LEU:HD13	1.80	0.64
3:C:29:VAL:HG23	3:C:92:ALA:HA	1.80	0.64
3:C:268:ILE:CD1	3:C:301:TRP:CZ2	2.80	0.64
3:C:1397:MET:HE3	3:C:3759:ILE:HD12	1.80	0.64
3:C:2730:LEU:CD1	3:C:2730:LEU:H	2.11	0.64
4:D:105:MET:CE	14:N:47:THR:O	2.45	0.64
8:H:84:LEU:HD12	8:H:84:LEU:N	2.12	0.64
14:N:24:VAL:HG13	14:N:25:PHE:CD2	2.31	0.64
15:O:31:PRO:HD3	15:O:109:ASN:HD22	1.62	0.64
1:A:1140:GLU:OE2	4:D:165:LYS:CG	2.46	0.64
2:B:958:GLU:OE1	2:B:958:GLU:N	2.31	0.64
3:C:98:PHE:CD1	3:C:111:THR:HG22	2.32	0.64
3:C:195:ASN:O	3:C:239:TRP:CZ2	2.50	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:114:ASP:OD2	5:E:43:ARG:N	2.30	0.64
1:A:95:PHE:O	1:A:124:THR:CA	2.45	0.64
1:A:3128:THR:CG2	1:A:3422:LEU:HB3	2.28	0.64
1:A:3449:LEU:CD2	1:A:3488:LEU:HD23	2.24	0.64
2:B:224:ASP:HA	2:B:347:ILE:CB	2.28	0.64
2:B:521:PHE:CZ	2:B:605:LYS:HB3	2.32	0.64
2:B:578:LEU:HD23	2:B:587:GLY:HA3	1.78	0.64
2:B:595:LEU:HD21	5:E:389:TRP:HZ2	1.62	0.64
2:B:734:GLU:N	2:B:735:PRO:HD2	2.12	0.64
2:B:935:ASN:HB3	3:C:283:THR:HG22	1.79	0.64
2:B:1145:LYS:O	2:B:1149:ASP:CB	2.46	0.64
2:B:1455:VAL:CG1	2:B:1456:PHE:N	2.61	0.64
2:B:3155:GLU:HA	2:B:3155:GLU:OE2	1.98	0.64
2:B:3257:ARG:HG2	2:B:3276:VAL:HG11	1.79	0.64
3:C:208:MET:HG3	3:C:208:MET:O	1.97	0.64
4:D:75:LEU:CG	15:O:102:LEU:HD11	2.25	0.64
5:E:126:ILE:HG13	5:E:128:LEU:HG	1.78	0.64
7:G:125:PHE:HZ	7:G:136:MET:HE2	1.62	0.64
8:H:62:GLY:HA3	9:I:83:TYR:CA	2.28	0.64
14:N:8:TYR:CE1	14:N:13:VAL:CG2	2.80	0.64
16:P:24:ASN:HA	16:P:96:GLY:CA	2.28	0.64
16:P:53:LEU:O	16:P:57:ILE:N	2.25	0.64
1:A:753:LEU:HD23	1:A:753:LEU:O	1.97	0.64
1:A:3124:ILE:HD12	1:A:3429:TRP:HD1	1.61	0.64
2:B:1129:ALA:HA	2:B:1132:GLU:OE2	1.98	0.64
2:B:1566:ASN:CB	3:C:2275:LYS:CE	2.76	0.64
3:C:214:LEU:HD13	3:C:232:TYR:O	1.97	0.64
3:C:217:PHE:HB2	3:C:229:ILE:HG12	1.80	0.64
4:D:106:ILE:HD12	4:D:106:ILE:O	1.97	0.64
4:D:208:TYR:CZ	9:I:100:ASN:CB	2.76	0.64
4:D:414:PHE:CD2	4:D:426:TRP:HD1	2.03	0.64
5:E:189:MET:HB2	5:E:193:MET:HE3	1.80	0.64
8:H:29:LYS:HB2	8:H:29:LYS:HZ2	1.63	0.64
10:J:26:VAL:HA	10:J:98:PHE:HA	1.80	0.64
1:A:841:ILE:CD1	1:A:961:ALA:CB	2.76	0.63
1:A:3191:LYS:HG2	1:A:3360:GLU:HG3	1.79	0.63
1:A:3212:VAL:CG2	1:A:3338:ALA:CB	2.69	0.63
1:A:3421:SER:HB2	1:A:3716:LEU:CD2	2.28	0.63
1:A:4301:MET:HE1	1:A:4412:ASP:HB2	1.78	0.63
2:B:1051:ASP:CG	2:B:1162:THR:CG2	2.62	0.63
2:B:2190:LYS:HE3	20:B:5601:ATP:O1B	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2606:GLY:HA3	3:C:2910:TRP:CH2	2.32	0.63
3:C:2613:THR:HG21	3:C:3176:LEU:CD2	2.23	0.63
3:C:2745:LYS:CE	3:C:2749:VAL:CB	2.76	0.63
4:D:252:VAL:CA	7:G:149:GLN:HE22	2.10	0.63
5:E:267:HIS:CD2	5:E:322:LEU:HB3	2.33	0.63
5:E:366:HIS:HE1	5:E:394:TRP:CH2	2.16	0.63
6:F:56:TRP:CZ2	6:F:91:GLN:CD	2.51	0.63
6:F:74:ILE:HD12	6:F:77:ILE:CD1	2.23	0.63
11:K:42:ILE:HG22	11:K:62:VAL:HG21	1.79	0.63
1:A:837:GLN:NE2	1:A:958:ALA:CB	2.59	0.63
1:A:1126:VAL:HG12	1:A:1132:LEU:HD12	1.79	0.63
2:B:89:ILE:N	2:B:100:THR:CB	2.60	0.63
2:B:2758:GLN:HE22	2:B:2834:TYR:H	1.47	0.63
2:B:2904:THR:HG21	2:B:2911:ILE:HB	1.80	0.63
2:B:3085:VAL:HG23	2:B:3477:TRP:CE2	2.33	0.63
3:C:96:LEU:HD12	3:C:96:LEU:C	2.22	0.63
3:C:354:VAL:HG13	3:C:357:ILE:HB	1.78	0.63
3:C:2720:PRO:O	3:C:2798:PHE:HZ	1.79	0.63
3:C:2730:LEU:HD12	3:C:2730:LEU:H	1.63	0.63
10:J:26:VAL:HG23	10:J:98:PHE:HA	1.79	0.63
10:J:38:GLU:CD	15:O:29:PHE:CD2	2.49	0.63
10:J:86:CYS:CB	11:K:61:VAL:HG22	2.26	0.63
1:A:576:TYR:HE1	1:A:620:PRO:C	2.06	0.63
1:A:3306:LEU:CD1	1:A:3310:LEU:CG	2.72	0.63
2:B:902:ILE:HG21	2:B:1076:LEU:HD11	1.79	0.63
2:B:3164:VAL:HG11	2:B:3409:ALA:CB	2.23	0.63
2:B:3239:VAL:CG1	2:B:3291:ILE:HD11	2.28	0.63
2:B:3422:LEU:HD21	2:B:3706:ILE:HG22	1.80	0.63
5:E:166:GLU:HA	5:E:166:GLU:OE2	1.98	0.63
16:P:15:SER:C	16:P:16:GLU:C	2.66	0.63
1:A:326:PRO:CB	1:A:372:GLN:O	2.47	0.63
1:A:397:ILE:C	1:A:489:LYS:CB	2.71	0.63
1:A:598:ARG:CD	4:D:319:TYR:CE1	2.80	0.63
1:A:614:PHE:CE1	1:A:644:LEU:CB	2.81	0.63
1:A:1029:GLU:HA	1:A:1088:TRP:CH2	2.34	0.63
2:B:439:LEU:HD23	2:B:439:LEU:C	2.23	0.63
2:B:444:LEU:HD21	2:B:526:ASN:HB2	1.80	0.63
2:B:555:LEU:HD23	2:B:625:LEU:CD1	2.29	0.63
2:B:787:LEU:O	2:B:791:HIS:HD2	1.81	0.63
2:B:900:PHE:HZ	2:B:933:TRP:CH2	2.16	0.63
2:B:1458:PHE:CD1	2:B:1560:MET:CE	2.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:12:GLN:CG	3:C:69:TRP:HE1	2.12	0.63
4:D:172:GLU:CB	13:M:64:HIS:HB2	2.21	0.63
8:H:60:ILE:HA	9:I:85:TYR:CB	2.28	0.63
1:A:669:ALA:CB	1:A:689:ASP:OD2	2.47	0.63
1:A:804:ASN:HD22	5:E:148:LYS:HB3	1.56	0.63
1:A:1028:LYS:C	1:A:1088:TRP:CH2	2.72	0.63
1:A:1619:GLU:HA	1:A:1619:GLU:OE1	1.99	0.63
2:B:718:ILE:HD11	2:B:773:VAL:CG2	2.28	0.63
2:B:798:ASN:CB	2:B:874:ALA:CA	2.76	0.63
2:B:1375:VAL:N	2:B:1420:LEU:CB	2.61	0.63
3:C:2726:THR:CA	3:C:2729:LEU:CG	2.57	0.63
4:D:564:ASP:HA	4:D:590:LEU:HD13	1.80	0.63
5:E:60:SER:HB3	10:J:87:GLN:CG	2.27	0.63
6:F:26:PHE:CE2	6:F:52:VAL:HG11	2.34	0.63
8:H:66:GLY:CA	9:I:56:ILE:HG22	1.99	0.63
1:A:1634:ILE:CD1	1:A:1656:ILE:HG23	2.28	0.63
2:B:467:VAL:HG13	2:B:471:THR:OG1	1.91	0.63
2:B:721:ASN:CG	2:B:773:VAL:HG12	2.23	0.63
2:B:1058:LYS:HB2	2:B:1166:GLU:CB	2.28	0.63
2:B:1330:TRP:HA	2:B:1410:PHE:HA	1.79	0.63
4:D:205:PHE:CZ	9:I:12:ILE:HG22	2.33	0.63
4:D:265:ARG:HB2	5:E:125:GLN:CD	2.23	0.63
5:E:198:TYR:HB3	5:E:208:PRO:HB3	1.80	0.63
6:F:52:VAL:HG23	6:F:89:ILE:HD13	1.79	0.63
7:G:119:PRO:CG	9:I:12:ILE:CG2	2.63	0.63
10:J:87:GLN:OE1	11:K:44:SER:CB	2.45	0.63
1:A:1522:GLU:HA	1:A:1541:PHE:HZ	1.64	0.63
2:B:724:HIS:NE2	2:B:728:CYS:SG	2.71	0.63
2:B:1176:VAL:O	2:B:1179:THR:OG1	2.17	0.63
2:B:2237:VAL:HG22	2:B:2639:LEU:HD22	1.80	0.63
2:B:3162:VAL:HG12	2:B:3166:LYS:HE3	1.81	0.63
3:C:1207:LEU:HD13	3:C:1214:TYR:CE1	2.34	0.63
4:D:395:HIS:NE2	4:D:399:VAL:HG13	2.00	0.63
5:E:266:THR:HG21	5:E:320:THR:CA	2.11	0.63
1:A:326:PRO:O	1:A:376:ASN:CB	2.46	0.63
1:A:608:ILE:HD11	1:A:701:CYS:HB3	1.79	0.63
1:A:2496:GLY:HA2	19:A:4701:ADP:PB	2.38	0.63
2:B:1107:ARG:HH21	2:B:1172:LYS:CE	2.12	0.63
2:B:1464:THR:O	2:B:1466:THR:HG23	1.98	0.63
2:B:3139:GLY:HA2	2:B:3695:LEU:CD2	2.29	0.63
3:C:2745:LYS:CE	3:C:2749:VAL:CG2	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:392:ASN:O	4:D:435:PRO:HG3	1.98	0.63
4:D:499:HIS:NE2	4:D:528:TRP:HH2	1.97	0.63
4:D:503:VAL:HA	4:D:520:SER:HA	1.81	0.63
4:D:528:TRP:CE2	4:D:535:GLN:CB	2.80	0.63
5:E:46:ASN:C	12:L:88:PHE:CD1	2.72	0.63
5:E:48:ILE:CB	12:L:88:PHE:CE2	2.81	0.63
5:E:343:LEU:CD2	5:E:358:ARG:HG2	2.28	0.63
5:E:394:TRP:NE1	5:E:401:PRO:N	2.47	0.63
6:F:35:ARG:HG3	6:F:41:SER:HA	1.80	0.63
12:L:80:LYS:HG2	12:L:103:LYS:HG2	1.81	0.63
17:Q:7:CYS:O	17:Q:11:ILE:N	2.27	0.63
1:A:53:ILE:CA	1:A:54:PHE:N	2.62	0.63
1:A:794:LEU:C	1:A:794:LEU:CD1	2.71	0.63
1:A:819:VAL:CA	1:A:840:TYR:CE2	2.82	0.63
2:B:660:LEU:HG	2:B:755:ILE:CD1	2.14	0.63
2:B:721:ASN:OD1	2:B:777:PHE:CD2	2.52	0.63
2:B:1447:ILE:HD13	2:B:1484:LEU:CB	2.29	0.63
2:B:2188:SER:O	20:B:5601:ATP:H5'2	1.99	0.63
2:B:3121:LEU:HD12	2:B:3451:SER:OG	1.99	0.63
2:B:3445:LYS:CB	2:B:3487:PRO:CB	2.76	0.63
3:C:1983:THR:HG22	19:C:4702:ADP:C6	2.34	0.63
3:C:2780:VAL:HG12	3:C:2786:ASN:ND2	2.13	0.63
3:C:3227:ALA:HA	3:C:3393:ILE:HG22	1.81	0.63
4:D:174:GLN:NE2	12:L:50:GLU:N	2.46	0.63
4:D:242:LYS:HG2	7:G:60:VAL:HG23	1.79	0.63
4:D:564:ASP:HA	4:D:590:LEU:CD1	2.28	0.63
1:A:155:GLY:HA2	2:B:167:GLN:O	1.96	0.62
1:A:971:ASN:CA	1:A:985:PHE:CE2	2.61	0.62
2:B:500:GLU:CD	2:B:532:THR:CG2	2.72	0.62
3:C:1983:THR:CG2	19:C:4702:ADP:N1	2.61	0.62
3:C:2721:GLU:OE1	3:C:2814:CYS:CA	2.42	0.62
4:D:242:LYS:HG2	7:G:60:VAL:HG22	1.81	0.62
5:E:156:GLU:OE1	5:E:156:GLU:HA	1.98	0.62
5:E:310:LEU:CD1	5:E:358:ARG:HH12	2.03	0.62
10:J:79:PHE:HA	11:K:68:ALA:HB2	1.81	0.62
1:A:1052:LEU:HD13	1:A:1166:TYR:CG	2.33	0.62
1:A:1100:LEU:HD23	1:A:1100:LEU:O	1.99	0.62
1:A:1638:THR:CB	1:A:1655:GLN:HG2	2.23	0.62
1:A:3212:VAL:HG13	1:A:3335:TRP:CD1	2.33	0.62
2:B:1458:PHE:HZ	2:B:1563:VAL:HG12	1.64	0.62
2:B:2192:CYS:SG	20:B:5601:ATP:H2'	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:898:TRP:O	3:C:902:LEU:HD13	1.99	0.62
3:C:2799:THR:HB	3:C:2800:PRO:HD3	1.80	0.62
4:D:77:PRO:CA	15:O:102:LEU:HD23	2.27	0.62
4:D:170:THR:HG21	13:M:66:ILE:HG13	1.68	0.62
4:D:180:ILE:CB	10:J:75:TYR:HE1	2.12	0.62
4:D:351:MET:HA	4:D:351:MET:CE	2.17	0.62
4:D:567:GLN:NE2	4:D:578:LYS:HE3	2.13	0.62
5:E:58:GLU:CA	10:J:89:VAL:HA	2.29	0.62
1:A:854:GLU:CG	5:E:205:PRO:HG2	2.19	0.62
1:A:1505:ASN:C	1:A:1509:ASP:OD2	2.42	0.62
1:A:3099:TYR:HA	1:A:3451:THR:CG2	2.25	0.62
1:A:3255:GLU:OE1	1:A:3270:LYS:HA	1.99	0.62
1:A:3322:ALA:HB1	1:A:3330:ALA:HA	1.82	0.62
1:A:3446:ASN:CG	1:A:3488:LEU:HD22	2.24	0.62
2:B:60:ASN:HA	2:B:81:ILE:HA	0.80	0.62
2:B:1438:ALA:O	2:B:1442:LYS:HG3	1.98	0.62
2:B:3114:LEU:HD22	2:B:3460:TYR:CE2	2.34	0.62
2:B:3822:LEU:HD12	2:B:4282:LEU:HD13	1.81	0.62
4:D:66:LEU:HB2	4:D:70:MET:HB2	1.80	0.62
4:D:96:PHE:CD2	11:K:47:LYS:NZ	2.68	0.62
5:E:20:PHE:CE2	15:O:80:LYS:HD2	2.25	0.62
5:E:52:ASN:OD1	12:L:22:ARG:NH2	2.33	0.62
6:F:26:PHE:CE1	6:F:49:ALA:CB	2.82	0.62
8:H:29:LYS:HB2	8:H:29:LYS:NZ	2.14	0.62
8:H:60:ILE:CB	9:I:85:TYR:HB3	2.28	0.62
1:A:830:LEU:HD12	1:A:830:LEU:N	2.14	0.62
1:A:906:LEU:CB	1:A:998:VAL:CG1	2.77	0.62
1:A:3273:TYR:HD1	1:A:3276:SER:H	1.47	0.62
2:B:53:ILE:O	2:B:87:LYS:HA	1.98	0.62
2:B:625:LEU:HD23	2:B:625:LEU:C	2.23	0.62
2:B:1487:MET:HA	2:B:3612:ASP:OD2	1.99	0.62
2:B:2666:ARG:HD2	20:B:5601:ATP:PG	2.35	0.62
2:B:3252:VAL:CG2	2:B:3330:SER:OG	2.47	0.62
3:C:136:ALA:HB2	3:C:168:ASN:OD1	1.98	0.62
3:C:2795:MET:N	3:C:2796:PRO:CD	2.61	0.62
4:D:89:TYR:CE2	11:K:56:PRO:HG3	2.33	0.62
16:P:24:ASN:N	16:P:96:GLY:HA2	2.14	0.62
16:P:57:ILE:O	16:P:62:LYS:HA	1.99	0.62
1:A:617:ILE:HG21	1:A:644:LEU:HG	1.82	0.62
1:A:3194:ALA:HB3	1:A:3356:VAL:HG22	1.77	0.62
2:B:532:THR:HG22	2:B:536:ILE:CD1	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:789:LYS:CB	2:B:839:LEU:CD1	2.76	0.62
2:B:1468:ALA:C	2:B:1469:SER:HG	1.97	0.62
2:B:1474:MET:HE1	2:B:1515:VAL:HB	1.81	0.62
2:B:3261:ILE:O	2:B:3306:ILE:HD13	1.99	0.62
3:C:13:THR:O	3:C:68:GLU:HA	2.00	0.62
3:C:24:HIS:CE1	3:C:325:SER:HG	2.00	0.62
3:C:190:LEU:HD23	3:C:232:TYR:OH	1.99	0.62
3:C:278:GLU:HA	3:C:278:GLU:OE1	1.98	0.62
5:E:30:ILE:HD12	5:E:30:ILE:C	2.24	0.62
11:K:77:PHE:CZ	11:K:88:LEU:CD1	2.73	0.62
1:A:861:ASP:OD2	5:E:152:LEU:HD12	2.00	0.62
1:A:935:VAL:HG21	1:A:1017:LEU:CD2	2.26	0.62
2:B:429:LEU:HD22	2:B:492:PHE:CD2	2.35	0.62
2:B:500:GLU:CD	2:B:532:THR:HG21	2.24	0.62
2:B:1054:ILE:HG12	2:B:1098:TYR:HB3	1.82	0.62
2:B:1458:PHE:CZ	2:B:1563:VAL:HG12	2.34	0.62
2:B:2264:ASP:O	2:B:2625:ARG:NH2	2.32	0.62
3:C:2584:LEU:HD21	3:C:2935:VAL:HG11	1.80	0.62
3:C:2794:ASN:C	3:C:2796:PRO:CD	2.72	0.62
4:D:171:ARG:C	13:M:64:HIS:HB2	2.24	0.62
4:D:327:GLY:HA3	4:D:349:GLY:HA2	1.81	0.62
5:E:50:LEU:CD2	12:L:23:PHE:CB	2.78	0.62
5:E:91:GLU:N	5:E:91:GLU:OE1	2.33	0.62
1:A:728:ASN:HD21	4:D:396:THR:CG2	2.03	0.62
1:A:3191:LYS:HB2	1:A:3191:LYS:HZ2	1.65	0.62
2:B:583:PRO:HA	5:E:186:PHE:CD2	2.34	0.62
2:B:2544:LYS:H	19:B:5501:ADP:PA	2.18	0.62
3:C:2581:LEU:HD11	3:C:2936:SER:OG	1.99	0.62
3:C:2694:ALA:HA	3:C:2819:ASN:HB3	1.81	0.62
5:E:304:LEU:HD13	5:E:353:VAL:HG11	1.80	0.62
7:G:99:ILE:HG23	7:G:103:ILE:HD12	1.81	0.62
1:A:603:GLU:HA	1:A:603:GLU:OE2	1.99	0.62
1:A:892:TRP:CH2	7:G:14:GLN:N	2.68	0.62
1:A:3251:ILE:CD1	17:Q:61:SER:CA	2.42	0.62
2:B:501:ARG:CZ	4:D:491:GLN:CB	2.78	0.62
2:B:532:THR:H	2:B:536:ILE:CD1	2.06	0.62
3:C:10:LEU:HD13	3:C:10:LEU:C	2.24	0.62
3:C:2800:PRO:HB3	3:C:2818:VAL:HG21	1.81	0.62
4:D:80:PRO:CD	15:O:103:TRP:CE2	2.83	0.62
5:E:20:PHE:CZ	15:O:80:LYS:CE	2.73	0.62
16:P:34:ASP:O	16:P:69:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:635:ARG:HA	1:A:638:TYR:HD2	1.62	0.62
1:A:1567:ASN:HB3	1:A:1570:LEU:HD13	1.82	0.62
2:B:598:ARG:NH1	5:E:389:TRP:CD1	2.68	0.62
2:B:3269:LEU:H	2:B:3269:LEU:HD13	1.63	0.62
3:C:540:LYS:CB	3:C:705:LYS:H	2.12	0.62
4:D:292:GLU:OE1	4:D:292:GLU:N	2.19	0.62
8:H:11:ILE:HG22	8:H:79:LEU:CB	2.30	0.62
1:A:906:LEU:HD12	1:A:998:VAL:HG21	1.82	0.62
1:A:967:LYS:O	1:A:967:LYS:HG2	1.99	0.62
1:A:2839:LEU:HD11	19:A:4901:ADP:C5	2.28	0.62
1:A:3306:LEU:HD11	1:A:3310:LEU:HG	1.81	0.62
2:B:17:ARG:CB	2:B:21:ALA:HB3	2.30	0.62
2:B:518:TYR:CD1	5:E:404:ARG:NH1	2.55	0.62
2:B:730:LEU:CD1	2:B:787:LEU:CD1	2.78	0.62
2:B:962:PHE:HA	3:C:104:SER:HB2	1.81	0.62
2:B:1792:THR:HG22	2:B:2038:ASN:ND2	2.15	0.62
2:B:3118:TYR:HD2	2:B:3455:SER:CB	2.13	0.62
3:C:783:SER:CB	3:C:838:TRP:CZ2	2.83	0.62
5:E:395:VAL:HG23	5:E:402:ILE:HG13	1.80	0.62
1:A:655:PHE:CZ	1:A:659:TRP:NE1	2.67	0.61
1:A:868:LEU:N	1:A:868:LEU:HD12	2.14	0.61
1:A:1436:ILE:HG23	1:A:1474:ASP:OD2	1.99	0.61
1:A:1597:LYS:HE3	1:A:1962:ILE:HD11	1.82	0.61
2:B:409:SER:HB2	2:B:413:PHE:CB	2.29	0.61
2:B:913:PHE:CE2	2:B:1078:ILE:CD1	2.79	0.61
2:B:1474:MET:HE1	2:B:1515:VAL:CB	2.30	0.61
2:B:1492:LYS:HZ1	2:B:3606:GLN:CD	2.04	0.61
3:C:2792:TYR:C	3:C:2796:PRO:CG	2.53	0.61
4:D:361:ALA:N	5:E:133:PHE:CZ	2.68	0.61
8:H:8:GLN:HA	8:H:8:GLN:OE1	2.00	0.61
1:A:52:LYS:O	1:A:105:LYS:HA	2.00	0.61
1:A:1126:VAL:CG1	1:A:1131:SER:O	2.47	0.61
2:B:429:LEU:HB3	2:B:492:PHE:HE2	1.65	0.61
2:B:721:ASN:OD1	2:B:777:PHE:HD2	1.83	0.61
2:B:790:ILE:HG12	2:B:836:ILE:HG23	1.81	0.61
2:B:1611:PHE:CE1	2:B:1923:MET:HG3	2.35	0.61
3:C:12:GLN:OE1	3:C:12:GLN:N	2.33	0.61
3:C:24:HIS:NE2	3:C:325:SER:HB3	2.14	0.61
3:C:2720:PRO:C	3:C:2798:PHE:CE2	2.78	0.61
3:C:2794:ASN:C	3:C:2796:PRO:HD3	2.25	0.61
4:D:75:LEU:CB	15:O:102:LEU:CD1	2.45	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:80:PRO:CG	15:O:103:TRP:HZ2	2.05	0.61
4:D:184:GLY:HA2	11:K:69:TYR:CD1	2.28	0.61
4:D:541:LEU:HD12	4:D:545:VAL:HG22	1.82	0.61
5:E:16:ASN:N	15:O:132:GLU:HG3	2.14	0.61
5:E:20:PHE:HZ	15:O:80:LYS:CG	1.64	0.61
5:E:112:LEU:O	5:E:112:LEU:HD23	2.00	0.61
14:N:25:PHE:CZ	14:N:103:ILE:CG2	2.47	0.61
1:A:1143:ARG:HD2	4:D:169:ASN:HD21	1.65	0.61
1:A:3306:LEU:HA	1:A:3309:TYR:HD2	1.65	0.61
2:B:945:GLN:O	2:B:945:GLN:HG2	2.00	0.61
2:B:2512:VAL:HG11	2:B:2687:ILE:HA	1.83	0.61
2:B:3109:LYS:HE2	2:B:3113:GLU:OE2	1.99	0.61
3:C:2585:PHE:HB2	3:C:2932:SER:OG	2.00	0.61
3:C:4025:PRO:HG3	3:C:4165:MET:HE1	1.82	0.61
5:E:188:GLN:OE1	5:E:188:GLN:HA	1.99	0.61
6:F:35:ARG:HE	6:F:41:SER:HB2	1.62	0.61
14:N:84:GLN:HG3	15:O:61:GLU:CA	2.23	0.61
14:N:115:MET:CE	15:O:129:CYS:HB2	2.30	0.61
1:A:888:ARG:NH2	7:G:5:THR:CB	2.63	0.61
1:A:948:LEU:CB	1:A:1010:LYS:CD	2.79	0.61
1:A:3386:ASN:O	1:A:3390:VAL:CG2	2.40	0.61
2:B:690:LEU:HD12	2:B:690:LEU:O	2.00	0.61
2:B:3236:LYS:N	2:B:3237:PRO:HD2	2.14	0.61
3:C:2745:LYS:CE	3:C:2749:VAL:CG1	2.51	0.61
3:C:2800:PRO:HB3	3:C:2818:VAL:CG2	2.29	0.61
4:D:91:TYR:HB2	13:M:28:VAL:HG11	1.82	0.61
4:D:648:GLU:HA	4:D:651:LYS:HE2	1.81	0.61
14:N:72:ILE:CB	15:O:97:ILE:CG1	2.73	0.61
14:N:84:GLN:CB	15:O:64:VAL:HG21	2.24	0.61
1:A:552:PHE:CA	1:A:568:ARG:HH12	2.13	0.61
1:A:590:GLN:OE1	1:A:590:GLN:HA	2.00	0.61
1:A:677:ARG:HH21	1:A:684:LEU:HD21	1.65	0.61
1:A:753:LEU:N	1:A:754:PRO:HD2	2.16	0.61
1:A:1458:MET:SD	1:A:1552:MET:HG3	2.40	0.61
1:A:1636:LYS:O	1:A:1657:GLN:HB2	2.01	0.61
2:B:551:TYR:CD2	2:B:622:VAL:CG1	2.83	0.61
2:B:681:LEU:HD13	2:B:701:ILE:HG22	1.82	0.61
2:B:792:LYS:HE3	2:B:796:ASN:HD21	1.65	0.61
2:B:914:ASP:N	2:B:915:PRO:HD2	2.14	0.61
3:C:142:ALA:N	3:C:143:PRO:HD2	2.16	0.61
4:D:106:ILE:O	15:O:99:SER:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:186:SER:HB3	10:J:58:GLN:HB2	1.83	0.61
4:D:386:TYR:HE1	5:E:142:VAL:CG1	2.13	0.61
4:D:395:HIS:CE1	4:D:399:VAL:CG1	2.71	0.61
4:D:517:ILE:HG13	4:D:550:TRP:CZ2	2.29	0.61
5:E:120:ILE:HA	6:F:101:GLN:OE1	2.01	0.61
5:E:343:LEU:HD22	5:E:358:ARG:HG2	1.82	0.61
1:A:819:VAL:N	1:A:840:TYR:HE2	1.99	0.61
1:A:906:LEU:CG	1:A:998:VAL:CG1	2.56	0.61
1:A:1616:GLN:OE1	1:A:1616:GLN:HA	1.99	0.61
1:A:3271:GLU:CD	1:A:3272:SER:N	2.59	0.61
2:B:638:ASP:HA	2:B:641:ILE:CG2	2.31	0.61
2:B:969:LEU:HD23	2:B:969:LEU:C	2.25	0.61
2:B:984:ASN:HA	2:B:987:ARG:CG	2.30	0.61
3:C:29:VAL:HG12	3:C:95:MET:SD	2.40	0.61
3:C:213:GLN:HG2	3:C:233:ASP:HB3	1.82	0.61
12:L:28:GLN:HA	12:L:28:GLN:HE21	1.65	0.61
1:A:604:ALA:CB	1:A:698:GLU:CG	2.78	0.61
1:A:2075:MET:HE2	1:A:2098:LEU:HD22	1.83	0.61
1:A:2676:TRP:CE2	1:A:2699:LEU:HD21	2.36	0.61
1:A:3042:PHE:CZ	1:A:3100:LYS:CE	2.80	0.61
1:A:3121:LEU:HD23	1:A:3429:TRP:CG	2.32	0.61
2:B:578:LEU:HD12	2:B:578:LEU:N	2.15	0.61
2:B:876:GLN:O	2:B:880:LEU:HG	2.00	0.61
2:B:1106:PHE:CZ	2:B:1160:ILE:CD1	2.76	0.61
2:B:1172:LYS:HB2	2:B:1176:VAL:HG23	1.83	0.61
2:B:1641:LEU:HD13	2:B:1662:MET:HB2	1.82	0.61
3:C:143:PRO:CG	3:C:187:TRP:NE1	2.63	0.61
3:C:213:GLN:NE2	3:C:231:ILE:HD12	2.16	0.61
4:D:208:TYR:CE2	9:I:19:MET:HE3	2.36	0.61
5:E:37:ILE:HG23	5:E:37:ILE:O	2.01	0.61
5:E:361:LEU:HD13	5:E:361:LEU:C	2.25	0.61
8:H:52:ARG:N	18:R:63:ASN:HA	2.13	0.61
1:A:576:TYR:CE1	1:A:620:PRO:HA	2.36	0.61
1:A:1524:VAL:CG2	1:A:1611:LEU:HD22	2.30	0.61
1:A:3260:LYS:HZ2	1:A:3315:ASP:HB3	1.66	0.61
2:B:408:THR:O	2:B:412:LEU:CB	2.49	0.61
2:B:658:GLN:OE1	2:B:674:ASP:HB2	2.01	0.61
2:B:721:ASN:CG	2:B:773:VAL:CG1	2.74	0.61
2:B:886:ILE:CD1	2:B:972:ILE:HG23	2.29	0.61
2:B:954:ASP:H	3:C:222:PHE:HB2	1.66	0.61
2:B:1511:VAL:C	2:B:1570:VAL:CG2	2.74	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1595:LEU:HD23	2:B:1595:LEU:C	2.26	0.61
2:B:2070:LYS:HD2	2:B:2309:ARG:HA	1.83	0.61
2:B:3131:ARG:HD2	2:B:3131:ARG:C	2.25	0.61
2:B:3694:LEU:HD21	2:B:3715:ASN:HB3	1.81	0.61
3:C:268:ILE:CD1	3:C:301:TRP:CH2	2.84	0.61
3:C:2617:VAL:HG23	3:C:3183:ILE:HD13	1.83	0.61
4:D:90:ASP:OD2	13:M:32:LYS:CD	2.49	0.61
4:D:517:ILE:HD13	4:D:527:ILE:CG2	2.17	0.61
13:M:82:LEU:C	13:M:82:LEU:HD23	2.26	0.61
1:A:770:LEU:HD22	1:A:774:SER:CB	2.30	0.61
1:A:1142:ILE:CD1	1:A:1190:LEU:HD21	2.30	0.61
1:A:1600:PRO:HB2	1:A:1917:SER:HB3	1.81	0.61
1:A:1603:TYR:O	1:A:1909:LYS:HE2	2.01	0.61
1:A:3442:LYS:HG3	1:A:3485:THR:HG22	1.81	0.61
2:B:467:VAL:CA	2:B:471:THR:OG1	2.49	0.61
2:B:581:ASN:CG	5:E:184:MET:HE3	2.26	0.61
2:B:584:PRO:HD3	5:E:186:PHE:HD2	1.66	0.61
2:B:1055:THR:HG22	2:B:1166:GLU:OE1	2.01	0.61
2:B:3251:GLY:HA3	2:B:3329:GLN:CD	2.26	0.61
3:C:2581:LEU:HG	3:C:2936:SER:HB3	1.83	0.61
3:C:2614:ALA:HB2	3:C:2903:LEU:HD11	1.82	0.61
3:C:2790:ASN:HA	3:C:2793:LEU:HD12	1.81	0.61
4:D:184:GLY:N	11:K:69:TYR:CE1	2.68	0.61
4:D:201:GLN:OE1	9:I:102:ASN:CA	2.48	0.61
4:D:252:VAL:HA	7:G:149:GLN:HE22	1.66	0.61
4:D:499:HIS:CD2	4:D:528:TRP:CH2	2.88	0.61
4:D:588:PRO:HG2	4:D:606:ASP:CG	2.25	0.61
5:E:395:VAL:HG21	5:E:402:ILE:CD1	1.88	0.61
10:J:98:PHE:HE1	10:J:107:MET:HE2	1.64	0.61
12:L:92:VAL:HG11	12:L:109:LYS:HD3	1.83	0.61
15:O:81:ILE:HD12	15:O:81:ILE:N	2.16	0.61
15:O:91:LYS:HB2	15:O:91:LYS:NZ	2.15	0.61
1:A:3211:ALA:O	1:A:3215:ILE:HG13	2.01	0.61
1:A:3232:ILE:HD13	1:A:3316:TRP:CZ3	2.25	0.61
2:B:453:THR:HG21	5:E:511:ARG:HD2	1.83	0.61
2:B:648:VAL:HG22	2:B:680:LEU:HD11	1.82	0.61
2:B:783:MET:HE2	2:B:847:VAL:CG2	2.30	0.61
2:B:791:HIS:NE2	2:B:866:ILE:HD13	2.15	0.61
2:B:956:LEU:HD11	2:B:960:ARG:HE	1.66	0.61
2:B:2191:THR:OG1	20:B:5601:ATP:O2A	2.18	0.61
2:B:3129:ILE:HD11	2:B:3447:MET:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:205:ALA:HB1	3:C:216:ILE:HG22	1.80	0.61
4:D:174:GLN:HB3	13:M:62:GLY:HA3	1.79	0.61
4:D:552:PRO:CG	4:D:595:PHE:HD2	2.13	0.61
16:P:82:PHE:O	16:P:84:ALA:N	2.28	0.61
1:A:948:LEU:HB2	1:A:1010:LYS:HD2	1.83	0.60
1:A:3306:LEU:CD1	1:A:3306:LEU:C	2.69	0.60
1:A:3384:ILE:O	1:A:3388:LYS:HG3	2.01	0.60
2:B:3314:ILE:HD12	2:B:3344:VAL:HG11	1.83	0.60
3:C:1983:THR:CB	19:C:4702:ADP:N6	2.59	0.60
3:C:2621:GLU:OE2	3:C:2900:VAL:CG2	2.49	0.60
4:D:208:TYR:HE1	9:I:22:LYS:HB2	1.65	0.60
4:D:405:ASN:HD22	4:D:406:PRO:CD	2.00	0.60
4:D:585:VAL:CG1	4:D:588:PRO:CG	2.79	0.60
5:E:418:SER:HB2	5:E:426:PHE:HE1	1.66	0.60
9:I:87:VAL:HG12	9:I:89:VAL:HG13	1.82	0.60
13:M:80:LEU:C	13:M:80:LEU:HD23	2.26	0.60
14:N:116:ALA:HB3	15:O:131:PHE:CZ	2.35	0.60
15:O:16:GLU:HA	15:O:16:GLU:OE2	2.01	0.60
1:A:590:GLN:O	1:A:609:TRP:CH2	2.54	0.60
1:A:747:ILE:CD1	1:A:889:TYR:CZ	2.66	0.60
1:A:1013:VAL:HG13	1:A:1016:PHE:CE1	2.35	0.60
1:A:1134:TYR:CD2	1:A:1268:ARG:NE	2.51	0.60
1:A:1449:ILE:CA	1:A:1459:LEU:HD23	2.12	0.60
1:A:4287:THR:HG22	1:A:4549:ILE:HD12	1.84	0.60
2:B:1485:MET:CB	2:B:1505:ARG:HE	2.05	0.60
2:B:2663:VAL:HG23	2:B:2668:GLN:HG3	1.83	0.60
2:B:3269:LEU:HD22	2:B:3269:LEU:O	2.01	0.60
4:D:399:VAL:HG23	4:D:399:VAL:O	2.00	0.60
6:F:11:LEU:CD2	6:F:23:TYR:CZ	2.50	0.60
7:G:120:THR:HG23	9:I:12:ILE:HG21	1.80	0.60
10:J:27:LEU:HG	10:J:29:PRO:HD2	1.82	0.60
14:N:75:GLN:HA	14:N:75:GLN:OE1	2.00	0.60
16:P:27:ASN:CB	16:P:95:GLU:HA	2.32	0.60
1:A:696:ILE:HD13	1:A:720:GLU:HG3	1.83	0.60
1:A:899:LEU:HD22	1:A:995:ILE:HD11	1.83	0.60
1:A:1126:VAL:CG1	1:A:1131:SER:C	2.62	0.60
1:A:3250:PRO:O	1:A:3250:PRO:HD2	2.01	0.60
2:B:810:SER:HB2	2:B:813:ASP:CG	2.26	0.60
2:B:957:GLN:CA	3:C:220:TRP:CZ3	2.78	0.60
3:C:163:GLY:HA2	3:C:174:PHE:HB2	1.84	0.60
3:C:2581:LEU:HD13	3:C:2937:TYR:CZ	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:405:ASN:HB3	4:D:413:ASN:HB2	1.83	0.60
5:E:57:SER:O	10:J:90:HIS:O	2.18	0.60
5:E:60:SER:CB	10:J:87:GLN:HA	2.32	0.60
5:E:394:TRP:HE1	5:E:401:PRO:HD3	1.66	0.60
9:I:89:VAL:HG11	9:I:108:PHE:HB2	1.83	0.60
14:N:8:TYR:OH	14:N:13:VAL:HG21	2.01	0.60
1:A:1013:VAL:O	1:A:1016:PHE:CE1	2.54	0.60
3:C:2703:LYS:HD2	3:C:2703:LYS:N	2.16	0.60
3:C:3938:LEU:HD12	3:C:3982:LYS:HD3	1.81	0.60
4:D:174:GLN:HE22	12:L:49:LEU:C	2.09	0.60
4:D:242:LYS:CG	7:G:60:VAL:CG2	2.75	0.60
4:D:528:TRP:CD1	4:D:535:GLN:CB	2.85	0.60
4:D:556:THR:HG22	4:D:644:ILE:HD12	1.84	0.60
1:A:651:TYR:HA	1:A:654:TRP:HB3	1.83	0.60
1:A:3249:ILE:HD11	1:A:3273:TYR:HA	1.78	0.60
2:B:473:VAL:HG22	2:B:476:ASP:HB2	1.83	0.60
2:B:805:LYS:HG3	2:B:805:LYS:O	2.01	0.60
2:B:953:GLY:HA2	3:C:222:PHE:HD1	1.65	0.60
2:B:1142:SER:O	2:B:1146:VAL:CG2	2.39	0.60
2:B:1467:PHE:CE1	2:B:1569:VAL:HG11	2.36	0.60
2:B:1467:PHE:CD2	2:B:1560:MET:HE1	2.37	0.60
2:B:1531:ILE:CD1	2:B:1595:LEU:HD13	2.30	0.60
2:B:1612:LEU:CG	2:B:1637:CYS:SG	2.89	0.60
2:B:3231:VAL:CG2	2:B:3342:ASN:CB	2.78	0.60
3:C:504:ALA:HB3	3:C:525:LYS:CB	2.31	0.60
3:C:2734:PHE:CZ	3:C:2767:LYS:CG	2.83	0.60
4:D:66:LEU:H	4:D:66:LEU:CD2	2.13	0.60
4:D:92:TYR:HB3	13:M:29:LYS:HA	1.83	0.60
4:D:529:ASP:CG	4:D:532:TYR:HD2	2.09	0.60
6:F:11:LEU:HB3	6:F:23:TYR:CZ	2.35	0.60
7:G:58:SER:O	7:G:62:ASP:CA	2.50	0.60
11:K:62:VAL:HG22	11:K:87:ILE:HG23	1.84	0.60
13:M:79:GLU:OE1	13:M:79:GLU:HA	2.01	0.60
18:R:42:ASN:O	18:R:43:ILE:CB	2.49	0.60
1:A:1048:TYR:HE1	1:A:1100:LEU:CA	2.15	0.60
2:B:473:VAL:HG13	2:B:473:VAL:O	2.02	0.60
2:B:794:LEU:CD1	2:B:867:VAL:HA	2.31	0.60
2:B:1456:PHE:CD1	2:B:1467:PHE:CD1	2.86	0.60
3:C:258:ALA:HB1	3:C:357:ILE:CD1	2.31	0.60
3:C:2018:GLN:OE1	19:C:4702:ADP:C2	2.53	0.60
3:C:2177:ILE:HG22	3:C:2233:PRO:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2725:ALA:O	3:C:2728:TYR:CD2	2.54	0.60
3:C:2848:THR:O	3:C:2852:ASN:CG	2.45	0.60
5:E:57:SER:O	10:J:90:HIS:ND1	2.35	0.60
12:L:99:LEU:O	12:L:102:ARG:HG3	2.02	0.60
16:P:10:THR:CA	16:P:65:ASP:CB	2.74	0.60
1:A:801:ILE:CD1	1:A:862:LEU:CD2	2.78	0.60
2:B:567:GLN:HA	2:B:567:GLN:OE1	2.01	0.60
2:B:902:ILE:HG12	2:B:915:PRO:HG3	1.82	0.60
3:C:230:MET:SD	3:C:241:ASP:CG	2.84	0.60
3:C:2721:GLU:OE2	3:C:2721:GLU:HA	2.01	0.60
4:D:297:LYS:CE	4:D:316:LEU:CD2	2.71	0.60
4:D:364:ALA:HB1	4:D:414:PHE:CE1	2.34	0.60
5:E:384:LEU:HD12	5:E:384:LEU:C	2.27	0.60
6:F:76:VAL:HG22	6:F:90:THR:HG22	1.84	0.60
1:A:3442:LYS:CB	1:A:3485:THR:CG2	2.74	0.60
2:B:425:ASP:O	2:B:489:PHE:HZ	1.83	0.60
2:B:3125:LYS:HE2	2:B:3447:MET:CB	2.31	0.60
3:C:2800:PRO:CD	3:C:2801:GLU:N	2.60	0.60
4:D:128:GLU:OE1	4:D:128:GLU:HA	2.01	0.60
4:D:261:TYR:CE1	5:E:126:ILE:HD11	2.37	0.60
4:D:269:SER:CB	4:D:618:PRO:HD3	2.31	0.60
5:E:48:ILE:CG1	12:L:23:PHE:CE2	2.84	0.60
6:F:11:LEU:CD2	6:F:23:TYR:HE1	1.85	0.60
12:L:77:ILE:CG1	13:M:65:ILE:CD1	2.70	0.60
15:O:76:VAL:O	15:O:76:VAL:HG12	2.01	0.60
16:P:39:TRP:CA	16:P:40:SER:N	2.64	0.60
1:A:761:LEU:HD11	1:A:872:ASP:OD2	2.00	0.60
1:A:1012:LYS:HB2	1:A:1071:ILE:HD12	1.79	0.60
1:A:1445:PHE:CD2	1:A:1564:CYS:HB2	2.30	0.60
2:B:177:PRO:CB	2:B:200:ILE:CB	2.79	0.60
2:B:558:VAL:HG11	2:B:599:ILE:HD11	1.84	0.60
2:B:910:GLY:HA2	2:B:995:TYR:CE1	2.36	0.60
2:B:1230:MET:HE2	2:B:1267:TYR:CA	2.32	0.60
2:B:1458:PHE:CE1	2:B:1560:MET:CE	2.84	0.60
2:B:1467:PHE:CE2	2:B:1560:MET:CE	2.85	0.60
2:B:3143:LEU:CD2	2:B:3698:LEU:HD11	2.32	0.60
2:B:3433:TRP:HH2	2:B:3695:LEU:HD21	1.66	0.60
3:C:128:ILE:HG22	3:C:128:ILE:O	2.01	0.60
7:G:64:LEU:HB3	7:G:76:TYR:CZ	2.36	0.60
16:P:27:ASN:HA	16:P:95:GLU:HA	1.83	0.60
1:A:607:ILE:HD13	1:A:655:PHE:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1146:GLN:HA	1:A:1187:TRP:HZ2	1.67	0.60
1:A:1634:ILE:HG23	1:A:1634:ILE:O	2.02	0.60
1:A:2839:LEU:HD13	19:A:4901:ADP:C2	2.26	0.60
2:B:805:LYS:HD3	2:B:809:MET:HE2	1.84	0.60
2:B:902:ILE:HG23	2:B:915:PRO:CG	2.32	0.60
2:B:1471:ASP:HA	2:B:1474:MET:HB2	1.83	0.60
2:B:1474:MET:HE2	2:B:1515:VAL:HG11	1.56	0.60
3:C:346:LEU:H	3:C:346:LEU:CD1	2.15	0.60
3:C:540:LYS:CB	3:C:701:ASN:O	2.50	0.60
3:C:2673:VAL:HA	3:C:2841:THR:CA	2.29	0.60
4:D:107:VAL:HG11	15:O:96:ARG:HH21	1.67	0.60
4:D:107:VAL:HG22	15:O:97:ILE:O	1.99	0.60
5:E:81:PRO:C	8:H:12:LYS:HZ1	2.10	0.60
5:E:323:GLU:OE1	5:E:323:GLU:HA	2.02	0.60
15:O:45:ARG:HB2	15:O:63:LEU:CD1	2.32	0.60
1:A:694:GLN:HA	4:D:321:PHE:CE2	2.36	0.59
1:A:763:LEU:CD2	1:A:780:TYR:OH	2.49	0.59
1:A:818:LEU:C	1:A:840:TYR:HE2	2.10	0.59
1:A:847:PHE:CZ	1:A:851:LYS:NZ	2.66	0.59
1:A:1460:ASN:HA	1:A:1552:MET:HE1	1.84	0.59
1:A:1513:LYS:CE	1:A:1578:ASN:CG	2.53	0.59
2:B:512:ASP:O	2:B:515:ASP:OD1	2.18	0.59
2:B:1110:GLN:O	2:B:1114:LEU:CD2	2.49	0.59
2:B:2237:VAL:CG2	2:B:2639:LEU:HD22	2.32	0.59
2:B:3153:LEU:HD12	2:B:3707:LEU:CD1	1.94	0.59
3:C:2708:GLN:CG	3:C:2809:ALA:HB1	2.32	0.59
8:H:77:ILE:HG22	8:H:88:LEU:HD11	1.84	0.59
18:R:82:ALA:C	18:R:83:ASN:CB	2.73	0.59
1:A:2839:LEU:HA	19:A:4901:ADP:C2	2.37	0.59
2:B:409:SER:C	2:B:413:PHE:H	2.09	0.59
2:B:737:VAL:O	2:B:737:VAL:HG13	2.01	0.59
2:B:913:PHE:HE2	2:B:1078:ILE:HD11	1.66	0.59
2:B:1492:LYS:HZ1	2:B:3606:GLN:HB2	1.67	0.59
2:B:1531:ILE:CD1	2:B:1618:LEU:CD2	2.79	0.59
2:B:1559:MET:HE2	2:B:1577:ARG:CD	2.25	0.59
2:B:2462:ASN:ND2	2:B:2479:CYS:SG	2.75	0.59
3:C:2698:LEU:HD23	3:C:2698:LEU:O	2.02	0.59
3:C:3412:HIS:HA	3:C:3415:ILE:HD12	1.84	0.59
5:E:71:ARG:NH1	8:H:71:PHE:CE2	2.67	0.59
5:E:119:CYS:CB	6:F:88:ILE:CD1	2.74	0.59
6:F:56:TRP:CE3	6:F:74:ILE:CD1	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:935:VAL:CB	1:A:944:LEU:CD2	2.79	0.59
1:A:1012:LYS:HE2	1:A:1071:ILE:HB	0.67	0.59
1:A:1613:ILE:HD11	1:A:1626:ASP:CB	2.31	0.59
1:A:2697:ARG:HH11	19:A:4701:ADP:PB	2.22	0.59
2:B:532:THR:HG23	2:B:532:THR:O	2.02	0.59
2:B:572:MET:O	2:B:572:MET:HG2	2.00	0.59
2:B:657:LYS:O	2:B:657:LYS:HG3	2.02	0.59
3:C:53:PRO:HD2	3:C:53:PRO:O	2.01	0.59
5:E:61:VAL:HG21	10:J:106:LEU:CG	2.32	0.59
8:H:76:TYR:HD1	8:H:89:PHE:HB3	1.67	0.59
10:J:52:GLU:H	10:J:52:GLU:CD	2.06	0.59
13:M:21:LYS:HB3	13:M:21:LYS:HZ3	1.68	0.59
1:A:1644:ASP:N	1:A:1644:ASP:OD1	2.33	0.59
1:A:1862:MET:HE2	1:A:1973:PHE:HZ	1.67	0.59
1:A:3271:GLU:OE1	1:A:3272:SER:O	2.19	0.59
2:B:467:VAL:O	2:B:471:THR:HB	1.99	0.59
2:B:3210:SER:HB3	2:B:3363:ALA:HB1	1.85	0.59
4:D:75:LEU:CD1	15:O:102:LEU:HD12	2.29	0.59
4:D:174:GLN:NE2	12:L:49:LEU:HB3	2.16	0.59
4:D:584:ILE:HG23	4:D:614:VAL:HG21	1.84	0.59
5:E:123:ASN:HB2	6:F:101:GLN:HE22	1.67	0.59
8:H:11:ILE:O	8:H:11:ILE:HG13	2.01	0.59
16:P:82:PHE:C	16:P:84:ALA:H	2.10	0.59
1:A:1048:TYR:HE1	1:A:1100:LEU:HA	1.67	0.59
1:A:1270:GLU:CB	1:A:1277:ASN:OD1	2.50	0.59
1:A:1422:SER:HB2	1:A:1486:HIS:HE1	1.49	0.59
3:C:265:LYS:HE2	3:C:356:THR:HG22	0.68	0.59
3:C:3528:LEU:HB3	3:C:3868:CYS:SG	2.42	0.59
5:E:58:GLU:HB2	10:J:88:ALA:O	2.03	0.59
5:E:143:GLU:OE2	5:E:491:CYS:SG	2.61	0.59
17:Q:68:LEU:CB	17:Q:92:ASP:CB	2.79	0.59
1:A:600:MET:SD	1:A:701:CYS:SG	3.00	0.59
1:A:1134:TYR:HB2	1:A:1268:ARG:NE	2.15	0.59
1:A:3124:ILE:CD1	1:A:3429:TRP:HD1	2.11	0.59
1:A:3210:GLU:O	1:A:3214:SER:HB3	2.02	0.59
2:B:585:ILE:CD1	2:B:647:GLU:OE1	2.50	0.59
2:B:736:LEU:O	2:B:736:LEU:HD23	2.02	0.59
2:B:962:PHE:HB3	2:B:965:ILE:HD13	1.85	0.59
2:B:3125:LYS:HE2	2:B:3447:MET:CG	2.32	0.59
2:B:3231:VAL:HG13	2:B:3343:ILE:HG13	1.84	0.59
3:C:160:ILE:O	3:C:160:ILE:HG13	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:357:ILE:O	3:C:357:ILE:HG22	2.02	0.59
3:C:2698:LEU:CD1	3:C:2772:LYS:HB2	2.32	0.59
3:C:4077:LEU:HD13	3:C:4105:MET:HG2	1.82	0.59
4:D:199:ILE:HG12	9:I:104:ALA:HB2	1.84	0.59
10:J:61:ALA:HA	10:J:80:PHE:CE2	2.34	0.59
14:N:72:ILE:CG1	15:O:97:ILE:CG1	2.81	0.59
1:A:1013:VAL:CG2	1:A:1076:LEU:HD21	2.32	0.59
1:A:3046:PHE:HE2	1:A:3104:ILE:CD1	2.16	0.59
2:B:909:SER:O	2:B:995:TYR:HE1	1.86	0.59
3:C:2706:PHE:CD1	3:C:2761:PRO:HG3	2.37	0.59
3:C:2743:ASN:CG	3:C:2789:LYS:HG3	2.28	0.59
3:C:2754:SER:HA	3:C:2757:LEU:HD12	1.85	0.59
4:D:61:LEU:O	4:D:61:LEU:HD13	2.03	0.59
5:E:20:PHE:CD2	15:O:80:LYS:NZ	2.69	0.59
5:E:403:ILE:HD11	5:E:512:GLU:HG3	1.85	0.59
6:F:74:ILE:CD1	6:F:77:ILE:HD11	2.28	0.59
1:A:596:LEU:N	1:A:596:LEU:CD1	2.66	0.59
1:A:760:ASP:O	1:A:764:ARG:CG	2.47	0.59
1:A:1013:VAL:HG22	1:A:1076:LEU:HD11	1.83	0.59
1:A:1121:LYS:CB	1:A:1138:THR:CG2	2.66	0.59
1:A:3194:ALA:CB	1:A:3356:VAL:HG21	2.30	0.59
1:A:4599:CYS:O	1:A:4599:CYS:SG	2.60	0.59
2:B:954:ASP:OD1	3:C:222:PHE:O	2.19	0.59
2:B:1079:ASN:HD21	2:B:1081:GLN:HB2	1.68	0.59
2:B:1119:LYS:CB	2:B:1138:LYS:HD3	2.33	0.59
2:B:1205:PHE:HA	2:B:1208:LYS:HB2	1.84	0.59
2:B:2609:MET:N	2:B:2610:PRO:HD2	2.18	0.59
4:D:194:THR:HB	9:I:88:THR:HG22	1.85	0.59
4:D:194:THR:HA	9:I:88:THR:HA	1.85	0.59
6:F:24:VAL:O	6:F:97:MET:HB2	2.01	0.59
9:I:85:TYR:CE2	9:I:106:LEU:HD22	2.37	0.59
10:J:35:ASP:CB	15:O:32:SER:HB3	2.33	0.59
10:J:77:HIS:HA	11:K:70:VAL:HG23	1.84	0.59
1:A:598:ARG:HB2	4:D:504:TYR:CE1	2.36	0.59
1:A:1100:LEU:HD21	1:A:1159:MET:CE	2.32	0.59
1:A:1133:GLY:HA2	1:A:1272:LEU:HG	1.84	0.59
1:A:1154:ASN:HB3	1:A:1155:PRO:HD3	1.83	0.59
1:A:2162:GLY:HA2	20:A:4801:ATP:O1A	2.03	0.59
1:A:3043:ILE:HD12	1:A:3060:MET:HG3	1.85	0.59
1:A:3110:LEU:HD12	1:A:3443:LEU:CD2	2.22	0.59
2:B:429:LEU:HD13	2:B:492:PHE:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:725:ILE:HG21	2:B:776:LEU:CD2	2.33	0.59
2:B:903:ARG:CB	2:B:914:ASP:CG	2.47	0.59
2:B:1387:MET:HA	2:B:1434:ALA:HB1	1.85	0.59
2:B:3150:VAL:HG22	2:B:3707:LEU:CD2	2.33	0.59
4:D:330:CYS:HB3	4:D:340:PRO:HB3	1.85	0.59
4:D:518:SER:OG	4:D:528:TRP:CH2	2.53	0.59
14:N:115:MET:HE2	15:O:129:CYS:HB2	1.85	0.59
1:A:1012:LYS:HE2	1:A:1071:ILE:CG2	2.30	0.59
1:A:1069:TYR:HD1	1:A:1078:THR:CG2	2.15	0.59
2:B:448:LYS:HE3	2:B:452:LEU:HD21	1.84	0.59
2:B:642:LEU:HD11	2:B:646:LYS:HE3	1.85	0.59
2:B:1242:GLN:CB	2:B:1252:MET:O	2.51	0.59
2:B:1511:VAL:C	2:B:1570:VAL:HG22	2.27	0.59
2:B:1511:VAL:O	2:B:1570:VAL:HG22	2.03	0.59
2:B:3264:ASN:CA	2:B:3306:ILE:CD1	2.80	0.59
3:C:352:LEU:HD22	3:C:352:LEU:C	2.28	0.59
3:C:1541:LEU:HD13	3:C:1584:LEU:HD22	1.84	0.59
3:C:2585:PHE:CB	3:C:2932:SER:CB	2.74	0.59
3:C:2711:SER:C	3:C:2751:TRP:HZ2	2.11	0.59
3:C:2746:PRO:CD	3:C:2747:LYS:N	2.64	0.59
5:E:58:GLU:O	5:E:58:GLU:HG3	2.02	0.59
5:E:119:CYS:SG	6:F:88:ILE:HG21	2.42	0.59
12:L:28:GLN:HE21	12:L:28:GLN:CA	2.16	0.59
15:O:25:ILE:HG22	15:O:27:ASN:HB2	1.85	0.59
1:A:594:PRO:CG	1:A:606:LYS:HG2	2.32	0.58
2:B:450:LYS:HD3	5:E:507:GLU:OE2	2.03	0.58
2:B:3178:VAL:HG12	2:B:3395:LEU:HD21	1.69	0.58
3:C:1081:ILE:HD11	3:C:1117:GLN:HB3	1.85	0.58
3:C:2798:PHE:CG	3:C:2803:MET:SD	2.96	0.58
4:D:601:ILE:HD11	4:D:613:LEU:HD13	1.84	0.58
5:E:452:VAL:HG21	5:E:478:ILE:HD12	1.84	0.58
6:F:81:THR:CB	7:G:121:ASN:OD1	2.50	0.58
12:L:49:LEU:HD22	12:L:49:LEU:N	2.18	0.58
1:A:203:SER:O	1:A:207:GLN:CB	2.51	0.58
1:A:473:LEU:O	1:A:478:LEU:CB	2.51	0.58
1:A:761:LEU:CD2	1:A:874:HIS:CE1	2.76	0.58
1:A:1525:PHE:CG	1:A:1541:PHE:CD2	2.80	0.58
1:A:3210:GLU:O	1:A:3214:SER:CB	2.52	0.58
1:A:3268:PHE:HE1	17:Q:35:ILE:CB	2.02	0.58
2:B:984:ASN:CA	2:B:987:ARG:HG2	2.33	0.58
2:B:1140:LEU:HD13	2:B:1285:GLU:CB	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2745:LYS:CD	3:C:2749:VAL:HG11	2.31	0.58
4:D:89:TYR:CE2	11:K:56:PRO:CG	2.86	0.58
4:D:531:LYS:NZ	4:D:532:TYR:CE2	2.71	0.58
11:K:77:PHE:HZ	11:K:88:LEU:HD11	1.63	0.58
1:A:613:LEU:CD2	4:D:523:TRP:CZ2	2.86	0.58
1:A:1013:VAL:CG1	1:A:1017:LEU:HD11	2.30	0.58
1:A:3117:PHE:CG	1:A:3429:TRP:HZ3	2.21	0.58
1:A:3421:SER:HB3	1:A:3716:LEU:CG	2.30	0.58
2:B:439:LEU:CD1	2:B:503:LEU:HD21	2.33	0.58
3:C:2708:GLN:HE22	3:C:2813:ILE:HG13	1.68	0.58
4:D:164:ASN:H	4:D:167:ASN:HB3	1.69	0.58
4:D:175:THR:HG23	13:M:61:PHE:O	2.03	0.58
4:D:412:TYR:HB2	4:D:428:LEU:HD22	1.84	0.58
14:N:116:ALA:CB	15:O:131:PHE:CZ	2.86	0.58
1:A:615:GLN:OE1	4:D:500:LEU:HD21	2.03	0.58
1:A:1013:VAL:HA	1:A:1076:LEU:HD11	1.84	0.58
1:A:3255:GLU:CD	1:A:3269:LEU:O	2.43	0.58
2:B:508:THR:HG22	2:B:539:GLU:CD	2.28	0.58
2:B:1329:PRO:O	2:B:1412:PHE:CB	2.51	0.58
2:B:1604:LYS:HA	2:B:1945:GLN:HE22	1.68	0.58
3:C:2578:PHE:O	3:C:2582:ILE:HG13	2.02	0.58
3:C:2742:LYS:HE3	3:C:2785:VAL:CG2	2.29	0.58
4:D:255:ASN:ND2	7:G:134:GLU:CD	2.57	0.58
4:D:404:TRP:HZ3	4:D:412:TYR:HB3	1.68	0.58
5:E:104:SER:HB3	5:E:106:PRO:HD2	1.86	0.58
8:H:10:VAL:HB	8:H:80:TYR:CZ	2.38	0.58
1:A:690:LEU:N	1:A:690:LEU:CD1	2.67	0.58
1:A:944:LEU:HD11	1:A:1013:VAL:HG12	1.85	0.58
1:A:1135:VAL:HG12	1:A:1136:MET:HE3	1.86	0.58
2:B:516:THR:HG21	5:E:406:LYS:HA	1.83	0.58
2:B:578:LEU:H	2:B:578:LEU:CD1	2.16	0.58
2:B:927:ARG:HH12	2:B:976:LEU:HB3	1.67	0.58
2:B:1584:TRP:HA	2:B:1584:TRP:CE3	2.39	0.58
3:C:1559:LEU:HD23	3:C:1607:LEU:HD21	1.84	0.58
3:C:2119:ILE:HG21	3:C:2122:THR:HG23	1.86	0.58
3:C:2726:THR:N	3:C:2729:LEU:HD11	2.18	0.58
3:C:2793:LEU:O	3:C:2796:PRO:CG	2.48	0.58
5:E:70:ASP:HA	8:H:69:VAL:O	2.04	0.58
1:A:53:ILE:C	1:A:54:PHE:CA	2.77	0.58
1:A:670:LEU:HA	1:A:692:ILE:HD12	1.86	0.58
2:B:582:MET:O	5:E:186:PHE:CB	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:867:VAL:HG12	2:B:944:ILE:HD13	1.85	0.58
2:B:1002:GLN:HG2	2:B:1094:TRP:NE1	2.19	0.58
2:B:3231:VAL:HG22	2:B:3343:ILE:N	2.18	0.58
3:C:288:VAL:O	3:C:320:PRO:HB3	2.03	0.58
3:C:2708:GLN:CD	3:C:2813:ILE:HG13	2.28	0.58
4:D:313:ALA:HB2	4:D:331:LEU:HG	1.84	0.58
5:E:145:LEU:CD2	5:E:494:LEU:HG	2.33	0.58
12:L:55:LEU:HD23	12:L:55:LEU:O	2.04	0.58
15:O:52:ASP:H	15:O:53:PRO:HD3	1.69	0.58
1:A:755:HIS:HE1	1:A:869:TYR:HB3	1.69	0.58
1:A:807:GLU:O	1:A:811:LYS:HG3	2.04	0.58
1:A:906:LEU:HB3	1:A:998:VAL:HG13	1.85	0.58
1:A:1429:ILE:HG22	1:A:1490:PHE:CE1	2.37	0.58
1:A:3251:ILE:CD1	17:Q:82:ASN:C	2.77	0.58
2:B:59:THR:CA	2:B:82:ASP:O	2.51	0.58
2:B:1230:MET:CE	2:B:1267:TYR:N	2.64	0.58
2:B:3109:LYS:HG2	2:B:3113:GLU:OE2	2.03	0.58
2:B:3210:SER:HB3	2:B:3363:ALA:CB	2.33	0.58
2:B:3253:ILE:HG21	2:B:3273:ASP:HB3	1.84	0.58
4:D:556:THR:HB	4:D:571:LEU:HG	1.84	0.58
5:E:253:MET:HB2	5:E:296:PHE:HE2	1.67	0.58
8:H:65:PHE:HB3	9:I:80:GLY:HA3	1.83	0.58
10:J:38:GLU:OE1	15:O:29:PHE:CZ	2.49	0.58
13:M:77:ILE:HG22	13:M:80:LEU:HB3	1.86	0.58
14:N:25:PHE:CZ	14:N:103:ILE:CD1	2.70	0.58
1:A:1051:GLN:CD	1:A:1096:TYR:HH	1.90	0.58
1:A:1459:LEU:O	1:A:1552:MET:CE	2.52	0.58
2:B:544:HIS:HE1	2:B:609:LEU:HD12	0.51	0.58
2:B:582:MET:HE1	2:B:587:GLY:CA	1.94	0.58
2:B:762:ILE:O	2:B:766:ILE:CB	2.52	0.58
2:B:1464:THR:HG22	2:B:1557:LYS:HB2	1.86	0.58
2:B:3239:VAL:HG11	2:B:3291:ILE:HD11	1.86	0.58
3:C:217:PHE:CE2	3:C:268:ILE:HD12	2.39	0.58
4:D:265:ARG:HB2	5:E:125:GLN:HG2	1.84	0.58
4:D:288:ARG:HE	4:D:610:GLY:HA3	1.69	0.58
13:M:44:GLU:OE1	13:M:44:GLU:HA	2.03	0.58
1:A:97:ARG:O	1:A:121:GLY:CA	2.51	0.58
1:A:473:LEU:CB	1:A:481:MET:CB	2.82	0.58
1:A:611:ARG:HH22	1:A:705:GLN:HB2	1.69	0.58
1:A:1118:LEU:HD22	1:A:1118:LEU:N	2.17	0.58
1:A:1121:LYS:CD	1:A:1138:THR:CG2	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1772:ILE:HG23	2:B:2044:GLY:HA2	1.85	0.58
2:B:2545:THR:N	19:B:5501:ADP:O1A	2.36	0.58
2:B:3267:ILE:HG23	2:B:3271:ASP:HB2	1.84	0.58
3:C:9:GLN:HB2	3:C:350:TRP:CE2	2.38	0.58
3:C:533:GLU:CB	3:C:545:GLU:CB	2.82	0.58
3:C:2213:ARG:HH21	19:C:4702:ADP:PB	2.26	0.58
12:L:70:GLY:O	12:L:109:LYS:HE2	2.03	0.58
1:A:867:MET:SD	1:A:878:VAL:CG1	2.86	0.58
1:A:997:LYS:NZ	18:R:149:LEU:C	2.53	0.58
1:A:1100:LEU:CG	1:A:1159:MET:HE1	2.34	0.58
1:A:1443:MET:HE2	1:A:1467:ILE:HG12	1.86	0.58
2:B:736:LEU:HD12	2:B:859:TYR:HB3	1.80	0.58
2:B:2569:SER:HA	2:B:2610:PRO:HA	1.85	0.58
2:B:2800:ILE:HD12	2:B:2814:ILE:HD11	1.85	0.58
2:B:3268:THR:HG22	2:B:3269:LEU:N	2.15	0.58
2:B:3422:LEU:HD23	2:B:3707:LEU:HD23	1.84	0.58
3:C:180:LEU:HD12	3:C:180:LEU:C	2.28	0.58
3:C:359:GLY:C	3:C:440:TYR:CB	2.77	0.58
3:C:540:LYS:CB	3:C:705:LYS:N	2.67	0.58
3:C:2745:LYS:CD	3:C:2749:VAL:CG1	2.81	0.58
5:E:375:ARG:HA	5:E:383:PHE:HA	1.85	0.58
6:F:91:GLN:CD	6:F:96:THR:CG2	2.74	0.58
1:A:588:GLN:OE1	1:A:588:GLN:HA	2.04	0.57
1:A:678:HIS:HB2	1:A:681:ASN:HB2	1.85	0.57
1:A:1114:GLN:C	1:A:1118:LEU:HD23	2.29	0.57
1:A:1429:ILE:HG21	1:A:1490:PHE:CZ	2.31	0.57
1:A:3251:ILE:CD1	17:Q:62:ILE:N	2.66	0.57
2:B:575:ASN:CB	5:E:481:GLN:NE2	2.67	0.57
2:B:1447:ILE:CG1	2:B:1480:HIS:ND1	2.67	0.57
2:B:1608:ARG:HB3	2:B:1637:CYS:HB3	1.85	0.57
3:C:60:LEU:HD22	3:C:69:TRP:CH2	2.33	0.57
3:C:1296:ILE:HD11	3:C:1542:MET:SD	2.44	0.57
3:C:2593:ARG:CD	3:C:2921:LEU:HD11	2.34	0.57
4:D:208:TYR:O	4:D:212:ILE:HG13	2.04	0.57
4:D:297:LYS:HZ3	4:D:328:LEU:HD13	1.68	0.57
5:E:14:PHE:CE2	15:O:22:LEU:O	2.56	0.57
6:F:66:ASP:HB3	7:G:102:SER:CB	2.34	0.57
6:F:81:THR:C	7:G:124:VAL:CG2	2.77	0.57
8:H:69:VAL:HG11	8:H:89:PHE:CZ	2.39	0.57
1:A:801:ILE:HD13	1:A:862:LEU:HD23	1.84	0.57
1:A:1422:SER:CA	1:A:1486:HIS:NE2	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3446:ASN:CG	1:A:3488:LEU:CD2	2.77	0.57
2:B:2512:VAL:H	19:B:5501:ADP:HN62	1.52	0.57
3:C:53:PRO:HD2	3:C:81:PRO:CB	2.34	0.57
3:C:2013:GLY:C	19:C:4702:ADP:O2A	2.46	0.57
4:D:517:ILE:CD1	4:D:550:TRP:HZ2	2.17	0.57
4:D:529:ASP:HB2	4:D:536:ILE:HD11	1.86	0.57
5:E:141:VAL:HG13	5:E:141:VAL:O	2.05	0.57
6:F:50:ALA:CB	8:H:83:GLN:CB	2.82	0.57
8:H:35:CYS:HB2	8:H:41:ILE:HG12	1.86	0.57
1:A:594:PRO:CB	1:A:609:TRP:CE3	2.86	0.57
1:A:1013:VAL:CG1	1:A:1076:LEU:HD11	2.33	0.57
1:A:1433:LEU:CD1	1:A:1490:PHE:HD1	2.10	0.57
1:A:3126:GLU:HA	1:A:3126:GLU:OE1	2.03	0.57
1:A:3241:LEU:HD11	1:A:3273:TYR:CD2	2.39	0.57
1:A:3273:TYR:CD1	1:A:3273:TYR:O	2.56	0.57
1:A:3317:PHE:CD1	1:A:3333:LEU:HD22	2.25	0.57
2:B:349:ASN:CB	2:B:416:LEU:HG	2.34	0.57
2:B:718:ILE:CD1	2:B:773:VAL:HG11	2.33	0.57
2:B:1003:ILE:HG22	2:B:1003:ILE:O	2.03	0.57
3:C:248:ILE:HG22	3:C:273:VAL:HB	1.86	0.57
3:C:261:ILE:N	3:C:262:PRO:HD2	2.20	0.57
4:D:110:SER:CA	15:O:96:ARG:HG3	2.35	0.57
4:D:254:GLN:OE1	5:E:128:LEU:HD11	2.04	0.57
4:D:294:GLN:HG3	4:D:297:LYS:HZ1	1.68	0.57
5:E:408:HIS:HD2	5:E:412:LEU:HD11	1.67	0.57
16:P:55:ILE:O	16:P:60:PHE:N	2.37	0.57
1:A:669:ALA:HB1	1:A:689:ASP:CB	2.35	0.57
2:B:1956:ASN:HD21	2:B:2011:ARG:HG3	1.70	0.57
2:B:3241:GLU:O	2:B:3245:LEU:HG	2.05	0.57
2:B:3453:LEU:CD2	2:B:3492:ILE:HD12	2.35	0.57
3:C:1864:ILE:HD11	3:C:1910:ILE:HG23	1.85	0.57
3:C:2082:LEU:HG	3:C:2137:VAL:HG21	1.86	0.57
4:D:265:ARG:CB	5:E:125:GLN:CG	2.82	0.57
4:D:401:GLN:HB3	4:D:417:ILE:HG22	1.85	0.57
4:D:532:TYR:CE1	4:D:652:MET:HE2	2.38	0.57
1:A:594:PRO:HG2	1:A:606:LYS:HG2	1.85	0.57
1:A:1100:LEU:CD2	1:A:1163:LEU:HB2	2.33	0.57
1:A:1163:LEU:HD21	1:A:1167:LEU:HD12	1.85	0.57
1:A:3241:LEU:HD11	1:A:3273:TYR:CE2	2.40	0.57
1:A:3313:SER:HA	1:A:3317:PHE:CD2	2.34	0.57
2:B:439:LEU:HD11	2:B:503:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:448:LYS:HE3	2:B:452:LEU:HD11	1.86	0.57
2:B:1143:VAL:O	2:B:1147:ILE:HG13	2.04	0.57
2:B:1538:ILE:HD11	2:B:1621:LEU:HB3	1.86	0.57
3:C:192:PRO:HG2	3:C:232:TYR:CE2	2.39	0.57
3:C:2556:VAL:HG21	3:C:2937:TYR:CD2	2.39	0.57
3:C:2676:GLN:CB	3:C:2837:LEU:HA	2.35	0.57
4:D:79:ASN:H	4:D:104:GLN:HG2	1.69	0.57
4:D:111:MET:SD	15:O:90:ILE:HG22	2.44	0.57
5:E:19:ASN:O	5:E:19:ASN:OD1	2.22	0.57
7:G:118:ASP:OD1	9:I:12:ILE:HD11	2.03	0.57
12:L:99:LEU:N	12:L:100:PRO:HD2	2.19	0.57
1:A:1031:ILE:CG2	1:A:1031:ILE:O	2.52	0.57
1:A:1676:CYS:HG	1:A:1683:TRP:CD1	2.23	0.57
1:A:3212:VAL:HG21	1:A:3339:ILE:CG1	2.33	0.57
2:B:2396:MET:HE2	2:B:2396:MET:HA	1.86	0.57
2:B:3147:GLN:HA	2:B:3426:LEU:CD1	2.34	0.57
3:C:2726:THR:N	3:C:2729:LEU:CD1	2.66	0.57
3:C:3072:ILE:HD12	3:C:3102:LEU:HD11	1.86	0.57
4:D:80:PRO:CD	15:O:103:TRP:HZ2	2.16	0.57
5:E:20:PHE:HE2	15:O:80:LYS:CG	2.07	0.57
14:N:72:ILE:CG1	15:O:97:ILE:HG23	2.29	0.57
17:Q:68:LEU:CA	17:Q:92:ASP:CB	2.79	0.57
18:R:27:GLY:O	18:R:28:LEU:CB	2.52	0.57
1:A:3222:GLU:HB2	1:A:3328:ALA:CB	2.35	0.57
2:B:433:ILE:CA	2:B:463:PHE:HZ	2.15	0.57
2:B:979:ILE:C	2:B:983:CYS:SG	2.87	0.57
2:B:1455:VAL:CG1	2:B:1456:PHE:H	2.18	0.57
2:B:1458:PHE:CB	2:B:1465:LYS:HB3	2.30	0.57
3:C:2365:GLY:CA	19:C:4703:ADP:H5'2	2.35	0.57
3:C:2585:PHE:HE1	3:C:2929:LEU:CB	2.17	0.57
3:C:2725:ALA:C	3:C:2729:LEU:HG	2.29	0.57
4:D:75:LEU:HD23	4:D:75:LEU:N	2.05	0.57
4:D:90:ASP:OD2	13:M:32:LYS:CE	2.52	0.57
4:D:212:ILE:HG12	9:I:19:MET:HE1	1.87	0.57
6:F:14:LEU:HD22	6:F:23:TYR:CB	2.30	0.57
7:G:119:PRO:CG	9:I:12:ILE:HD12	2.33	0.57
1:A:690:LEU:CD1	1:A:690:LEU:H	2.18	0.57
2:B:651:SER:OG	2:B:680:LEU:CD2	2.52	0.57
2:B:883:ASN:CA	2:B:886:ILE:CG2	2.71	0.57
2:B:1002:GLN:CA	2:B:1094:TRP:CZ2	2.81	0.57
2:B:2560:VAL:HG13	2:B:2601:ILE:HD13	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2966:LEU:C	2:B:2966:LEU:HD12	2.30	0.57
2:B:3297:PHE:CZ	2:B:3302:ILE:HD13	2.40	0.57
3:C:85:HIS:CD2	3:C:85:HIS:N	2.73	0.57
3:C:2721:GLU:CA	3:C:2798:PHE:CE1	2.87	0.57
4:D:207:ALA:C	9:I:24:ILE:HD11	2.22	0.57
4:D:285:PRO:HB3	4:D:584:ILE:HG22	1.85	0.57
8:H:50:ARG:NH2	9:I:88:THR:HG21	2.19	0.57
9:I:55:ASN:HB2	9:I:58:ALA:HB3	1.86	0.57
10:J:77:HIS:CB	11:K:70:VAL:HG23	2.35	0.57
15:O:103:TRP:HB2	15:O:108:ASP:OD1	2.04	0.57
1:A:739:ARG:HH11	1:A:743:LYS:HZ1	1.53	0.57
1:A:755:HIS:HE1	1:A:869:TYR:CG	2.20	0.57
1:A:933:VAL:CG1	1:A:944:LEU:HB3	2.35	0.57
1:A:1534:MET:HB3	1:A:1537:GLN:HG3	1.87	0.57
1:A:1806:PHE:CD1	1:A:4194:VAL:HG22	2.40	0.57
1:A:3106:LYS:HG2	1:A:3443:LEU:HD21	1.56	0.57
1:A:3215:ILE:HD13	1:A:3219:ASP:OD2	2.04	0.57
1:A:3691:LEU:HB3	1:A:3719:THR:HG22	1.86	0.57
1:A:4126:TRP:CZ2	1:A:4130:ILE:HD11	2.39	0.57
1:A:4240:VAL:HG11	1:A:4270:PRO:HG2	1.86	0.57
2:B:10:PRO:CA	2:B:25:GLN:C	2.41	0.57
2:B:913:PHE:CE2	2:B:1078:ILE:HD11	2.39	0.57
2:B:1528:LEU:HD21	2:B:1591:CYS:HB3	1.81	0.57
2:B:1610:TYR:CD2	2:B:1942:GLY:HA3	2.39	0.57
2:B:2189:GLY:HA2	20:B:5601:ATP:H5'1	1.86	0.57
2:B:3063:PHE:CZ	2:B:3112:LEU:HD11	2.40	0.57
3:C:163:GLY:CA	3:C:174:PHE:HD2	2.18	0.57
3:C:463:PRO:C	3:C:465:LEU:H	2.13	0.57
3:C:760:THR:HA	3:C:827:ILE:HD11	1.87	0.57
3:C:2807:SER:HG	3:C:2810:ALA:HB2	1.70	0.57
4:D:88:VAL:HG21	13:M:33:GLN:NE2	2.20	0.57
5:E:16:ASN:CA	15:O:132:GLU:CG	2.74	0.57
5:E:24:GLU:OE2	14:N:91:THR:CB	2.53	0.57
1:A:402:PRO:O	1:A:468:GLN:HA	2.04	0.57
1:A:751:LEU:HD23	1:A:751:LEU:C	2.30	0.57
1:A:1013:VAL:O	1:A:1017:LEU:HG	2.04	0.57
1:A:2697:ARG:HG2	19:A:4701:ADP:H4'	1.86	0.57
1:A:3442:LYS:CG	1:A:3485:THR:HG22	2.35	0.57
2:B:10:PRO:C	2:B:25:GLN:H	2.13	0.57
2:B:713:VAL:HG11	5:E:258:GLU:HA	1.86	0.57
2:B:814:TYR:O	2:B:818:LEU:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1454:GLN:OE1	2:B:1477:LEU:HD21	2.05	0.57
2:B:3082:MET:SD	2:B:3115:ILE:CD1	2.93	0.57
2:B:3257:ARG:CZ	2:B:3273:ASP:OD1	2.53	0.57
2:B:3268:THR:CG2	2:B:3269:LEU:HD12	2.33	0.57
3:C:360:PRO:CG	3:C:361:PRO:CD	2.83	0.57
4:D:189:PRO:HD3	11:K:65:HIS:HB2	1.87	0.57
4:D:212:ILE:CD1	9:I:15:LEU:HD22	2.33	0.57
4:D:528:TRP:NE1	4:D:535:GLN:CA	2.68	0.57
4:D:573:VAL:HG21	4:D:579:LEU:HD21	1.86	0.57
4:D:585:VAL:HG11	4:D:588:PRO:HG3	1.85	0.57
4:D:640:LYS:HA	4:D:640:LYS:CE	2.34	0.57
8:H:66:GLY:O	9:I:79:ILE:N	2.35	0.57
12:L:41:LEU:HD21	12:L:56:ASN:HB2	1.87	0.57
1:A:3222:GLU:OE1	1:A:3328:ALA:HB2	2.04	0.56
2:B:433:ILE:HA	2:B:463:PHE:CE1	2.40	0.56
2:B:747:GLU:O	2:B:750:PRO:HD2	2.05	0.56
2:B:997:TRP:CE3	2:B:997:TRP:HA	2.40	0.56
3:C:1142:VAL:HG21	3:C:1167:ILE:HD13	1.87	0.56
3:C:1907:ILE:HD11	3:C:1930:TRP:CZ2	2.39	0.56
3:C:2365:GLY:O	19:C:4703:ADP:C5'	2.52	0.56
3:C:2722:VAL:HG12	3:C:2813:ILE:HD13	1.88	0.56
3:C:2739:GLU:H	3:C:2746:PRO:CB	2.13	0.56
5:E:61:VAL:HG11	10:J:95:PHE:HZ	1.63	0.56
6:F:84:SER:HB2	6:F:102:LEU:HB3	1.87	0.56
10:J:43:GLU:HG2	10:J:67:TYR:CD2	2.40	0.56
12:L:84:CYS:CB	13:M:56:ILE:HA	2.34	0.56
15:O:25:ILE:CG2	15:O:27:ASN:HB2	2.34	0.56
1:A:604:ALA:CB	1:A:698:GLU:CD	2.79	0.56
1:A:617:ILE:HB	1:A:644:LEU:HD21	1.87	0.56
1:A:847:PHE:CZ	1:A:851:LYS:CE	2.88	0.56
1:A:2839:LEU:HA	19:A:4901:ADP:H2	1.68	0.56
1:A:3255:GLU:OE1	1:A:3270:LYS:CA	2.53	0.56
1:A:3421:SER:CB	1:A:3716:LEU:CD2	2.83	0.56
2:B:1100:ASP:HA	2:B:1103:VAL:CG2	2.35	0.56
2:B:1456:PHE:CE2	2:B:1569:VAL:HG12	2.38	0.56
2:B:3109:LYS:O	2:B:3113:GLU:HG3	2.05	0.56
3:C:146:ARG:HA	3:C:165:GLY:HA3	1.87	0.56
3:C:2361:VAL:HG11	3:C:3113:PRO:HG2	1.87	0.56
4:D:181:ARG:O	11:K:71:SER:HA	2.06	0.56
4:D:247:ILE:HD13	5:E:129:LEU:CD2	2.35	0.56
5:E:286:GLY:HA2	5:E:318:GLY:HA2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:289:MET:HE2	5:E:303:LYS:HE2	1.87	0.56
1:A:604:ALA:CB	1:A:698:GLU:HG2	2.32	0.56
1:A:744:ILE:CD1	1:A:752:LEU:HD23	2.32	0.56
1:A:801:ILE:CG2	1:A:862:LEU:CG	2.75	0.56
1:A:948:LEU:HG	1:A:1010:LYS:CG	2.31	0.56
1:A:997:LYS:CE	18:R:149:LEU:CA	2.27	0.56
1:A:1088:TRP:CZ2	1:A:1092:TRP:CZ2	2.92	0.56
1:A:1601:ARG:HD2	1:A:1630:LEU:O	2.05	0.56
1:A:2143:LEU:HD13	1:A:2155:LEU:HD13	1.88	0.56
2:B:422:ARG:HB2	2:B:422:ARG:CZ	2.35	0.56
2:B:658:GLN:NE2	2:B:672:ASN:CG	2.59	0.56
2:B:1606:PHE:HE1	2:B:1687:LEU:HA	1.69	0.56
2:B:3269:LEU:H	2:B:3269:LEU:CD1	2.18	0.56
2:B:3446:SER:CB	2:B:3489:THR:HG22	2.30	0.56
3:C:113:ILE:HD13	3:C:185:PHE:HZ	1.69	0.56
3:C:196:PRO:HA	3:C:239:TRP:CH2	2.17	0.56
3:C:214:LEU:O	3:C:231:ILE:HA	2.05	0.56
3:C:2673:VAL:CB	3:C:2841:THR:CA	2.75	0.56
3:C:2734:PHE:HE2	3:C:2767:LYS:HE3	1.62	0.56
3:C:2737:ALA:O	3:C:2746:PRO:HG2	2.05	0.56
4:D:288:ARG:HH12	4:D:585:VAL:HG11	1.69	0.56
4:D:294:GLN:HB3	4:D:297:LYS:HE3	1.86	0.56
4:D:517:ILE:CD1	4:D:527:ILE:CB	2.83	0.56
4:D:576:LEU:HD13	4:D:576:LEU:O	2.05	0.56
4:D:603:LEU:HD22	4:D:611:VAL:HG12	1.87	0.56
5:E:46:ASN:C	12:L:88:PHE:CZ	2.84	0.56
5:E:70:ASP:OD1	8:H:70:THR:CB	2.52	0.56
5:E:174:PRO:HB3	5:E:463:ASN:HD22	1.70	0.56
10:J:26:VAL:CG2	10:J:97:TYR:C	2.68	0.56
17:Q:69:ASN:O	17:Q:70:MET:CB	2.53	0.56
1:A:607:ILE:HG12	1:A:654:TRP:CD1	2.41	0.56
2:B:1467:PHE:CD2	2:B:1560:MET:CE	2.88	0.56
3:C:214:LEU:O	3:C:214:LEU:HD22	2.05	0.56
3:C:2804:ALA:HB2	3:C:2811:LYS:HG3	1.86	0.56
4:D:532:TYR:CE1	4:D:652:MET:CE	2.88	0.56
5:E:80:TRP:HE3	5:E:81:PRO:CD	2.11	0.56
10:J:89:VAL:HG23	11:K:47:LYS:HE3	1.87	0.56
14:N:89:GLN:HG3	14:N:94:ASP:HB2	1.83	0.56
16:P:57:ILE:O	16:P:62:LYS:CA	2.54	0.56
1:A:669:ALA:HB1	1:A:689:ASP:CG	2.30	0.56
1:A:1274:GLY:N	4:D:166:PHE:HE1	1.92	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1444:GLN:CB	1:A:1559:LYS:O	2.45	0.56
1:A:3229:PRO:HB3	1:A:3233:ILE:HD13	1.88	0.56
2:B:585:ILE:HD11	2:B:647:GLU:OE1	2.05	0.56
2:B:1511:VAL:HG23	2:B:1570:VAL:CG1	2.33	0.56
2:B:2544:LYS:N	19:B:5501:ADP:PA	2.78	0.56
2:B:3242:MET:HG3	2:B:3336:LEU:HD11	1.88	0.56
3:C:60:LEU:CD2	3:C:69:TRP:CE3	2.86	0.56
4:D:116:ILE:HD11	5:E:43:ARG:HH11	1.71	0.56
4:D:401:GLN:HG3	4:D:462:PHE:CE1	2.41	0.56
5:E:42:GLN:NE2	12:L:91:ASN:ND2	2.50	0.56
5:E:43:ARG:HB3	5:E:45:PRO:HD2	1.88	0.56
5:E:225:GLN:OE1	5:E:225:GLN:N	2.38	0.56
5:E:238:GLY:O	5:E:260:SER:OG	2.23	0.56
5:E:394:TRP:CD1	5:E:400:THR:C	2.83	0.56
11:K:55:GLY:CA	13:M:79:GLU:HG3	2.33	0.56
14:N:75:GLN:CB	15:O:93:GLN:CG	2.53	0.56
1:A:614:PHE:HE1	1:A:644:LEU:HB3	1.62	0.56
1:A:1443:MET:CG	1:A:1561:VAL:HG21	2.21	0.56
1:A:3241:LEU:CD1	1:A:3273:TYR:CD2	2.88	0.56
1:A:3269:LEU:CD2	1:A:3312:GLN:OE1	2.50	0.56
1:A:4422:ASP:HB2	1:A:4423:PRO:HD2	1.87	0.56
2:B:606:LEU:HA	2:B:609:LEU:HD23	1.86	0.56
2:B:725:ILE:HD11	2:B:777:PHE:CA	2.07	0.56
2:B:1076:LEU:O	2:B:1076:LEU:HD23	2.05	0.56
2:B:1329:PRO:CB	2:B:1412:PHE:C	2.79	0.56
2:B:2267:ILE:HG22	2:B:2271:TRP:HZ3	1.68	0.56
2:B:2409:LEU:HD21	2:B:2436:PHE:HA	1.88	0.56
2:B:3300:GLU:CD	2:B:3354:LYS:HZ2	2.07	0.56
2:B:3600:LYS:HD2	2:B:3605:LEU:HD22	1.88	0.56
3:C:52:ALA:HB1	3:C:53:PRO:CD	2.35	0.56
3:C:359:GLY:N	3:C:440:TYR:CB	2.68	0.56
3:C:2597:GLU:OE1	3:C:2597:GLU:HA	2.06	0.56
4:D:567:GLN:CD	4:D:578:LYS:HD2	2.28	0.56
8:H:60:ILE:HG23	9:I:85:TYR:HB3	1.87	0.56
1:A:686:VAL:HG23	1:A:734:LEU:HD12	1.88	0.56
1:A:3046:PHE:CG	1:A:3100:LYS:NZ	2.74	0.56
2:B:444:LEU:HA	5:E:515:LYS:CE	2.35	0.56
2:B:861:ASP:O	2:B:864:ASN:CG	2.48	0.56
4:D:372:VAL:HG13	4:D:414:PHE:CZ	2.41	0.56
5:E:116:VAL:CG1	6:F:99:ALA:CB	2.84	0.56
8:H:10:VAL:HG11	8:H:80:TYR:OH	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:26:VAL:HG23	10:J:98:PHE:N	2.20	0.56
1:A:878:VAL:HG22	1:A:879:LEU:N	2.20	0.56
1:A:913:VAL:C	1:A:1073:ALA:HB2	2.30	0.56
1:A:1430:ARG:HG2	1:A:1490:PHE:CG	2.41	0.56
1:A:1446:GLN:O	1:A:1461:GLY:HA2	2.06	0.56
1:A:3140:GLU:O	1:A:3144:GLN:HG3	2.06	0.56
2:B:4:HIS:O	2:B:7:LYS:N	2.39	0.56
2:B:10:PRO:C	2:B:25:GLN:N	2.63	0.56
2:B:1458:PHE:CZ	2:B:1560:MET:O	2.59	0.56
2:B:2334:TYR:HA	20:B:5601:ATP:C2	2.38	0.56
2:B:3164:VAL:CG1	2:B:3409:ALA:CB	2.75	0.56
2:B:3243:LYS:HD2	2:B:3285:ASN:O	2.05	0.56
3:C:2743:ASN:HD21	3:C:2785:VAL:C	2.13	0.56
4:D:199:ILE:HG12	9:I:104:ALA:CB	2.36	0.56
5:E:48:ILE:CB	12:L:88:PHE:HE2	2.17	0.56
5:E:112:LEU:HD23	5:E:116:VAL:HG23	1.87	0.56
5:E:214:SER:HB3	5:E:243:TRP:HZ2	1.71	0.56
5:E:515:LYS:O	5:E:515:LYS:HD3	2.05	0.56
12:L:84:CYS:SG	13:M:56:ILE:HG12	2.46	0.56
16:P:82:PHE:C	16:P:84:ALA:N	2.64	0.56
1:A:3046:PHE:CE2	1:A:3104:ILE:CD1	2.89	0.56
1:A:3223:LEU:CD1	1:A:3332:ILE:HG12	2.19	0.56
1:A:3236:ILE:CA	1:A:3333:LEU:HD23	2.35	0.56
1:A:3257:VAL:HG13	1:A:3267:LEU:H	1.70	0.56
2:B:655:LYS:HB2	2:B:677:LEU:CD2	2.34	0.56
2:B:1458:PHE:HZ	2:B:1563:VAL:C	2.07	0.56
2:B:3118:TYR:CD2	2:B:3455:SER:CB	2.87	0.56
3:C:60:LEU:HD23	3:C:69:TRP:CE3	2.41	0.56
3:C:2673:VAL:CA	3:C:2841:THR:CG2	2.78	0.56
4:D:386:TYR:HB3	4:D:433:LEU:HD11	1.88	0.56
9:I:30:MET:HB3	9:I:35:LEU:HD21	1.88	0.56
1:A:3128:THR:HG22	1:A:3422:LEU:HD13	1.88	0.56
1:A:3251:ILE:CG1	17:Q:82:ASN:CA	2.56	0.56
2:B:514:TYR:HE2	2:B:523:LEU:HD12	1.71	0.56
2:B:555:LEU:HG	2:B:629:ILE:HD12	1.88	0.56
2:B:1437:GLU:CG	2:B:1493:TYR:CB	2.77	0.56
2:B:3114:LEU:CD2	2:B:3460:TYR:CE2	2.89	0.56
3:C:227:SER:HB3	3:C:250:LYS:H	1.71	0.56
3:C:2184:ILE:HD11	3:C:2237:ILE:HD13	1.88	0.56
9:I:19:MET:HB3	9:I:22:LYS:HE3	1.88	0.56
1:A:683:LYS:HE2	1:A:738:GLU:HG2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:937:LEU:CD1	1:A:1081:ILE:CD1	2.84	0.55
1:A:2330:TYR:O	1:A:2336:PHE:HB2	2.06	0.55
2:B:428:HIS:O	2:B:432:THR:HG23	2.05	0.55
2:B:585:ILE:HG21	2:B:644:TRP:HB2	1.87	0.55
2:B:736:LEU:CD1	2:B:859:TYR:HB3	2.35	0.55
2:B:1141:MET:HE3	2:B:1145:LYS:HE3	1.87	0.55
2:B:1243:LYS:CB	2:B:1251:SER:N	2.69	0.55
4:D:283:LEU:HB3	4:D:614:VAL:HG11	1.88	0.55
10:J:86:CYS:SG	11:K:61:VAL:HA	2.46	0.55
14:N:75:GLN:HG2	15:O:94:GLY:H	1.70	0.55
1:A:717:LEU:O	1:A:717:LEU:HD23	2.07	0.55
1:A:871:LEU:HD22	1:A:872:ASP:O	2.07	0.55
1:A:1263:TYR:HE2	1:A:1280:TYR:C	2.12	0.55
1:A:3121:LEU:HD21	1:A:3429:TRP:HB3	0.57	0.55
1:A:3273:TYR:CD1	1:A:3276:SER:HB3	2.41	0.55
2:B:489:PHE:HE1	2:B:493:ARG:HD3	1.69	0.55
2:B:523:LEU:HD23	2:B:523:LEU:O	2.05	0.55
2:B:1107:ARG:HE	2:B:1172:LYS:NZ	2.04	0.55
2:B:1172:LYS:HD2	2:B:1176:VAL:HG23	1.87	0.55
2:B:2971:ILE:HG23	2:B:2974:LEU:HB2	1.89	0.55
2:B:3147:GLN:HA	2:B:3426:LEU:HD13	1.87	0.55
2:B:4243:ASN:HB2	2:B:4244:PRO:HD2	1.88	0.55
3:C:25:THR:OG1	3:C:87:SER:HB3	2.05	0.55
3:C:113:ILE:CD1	3:C:185:PHE:CE1	2.89	0.55
5:E:26:ARG:O	14:N:85:ILE:CG2	2.53	0.55
5:E:59:HIS:HB2	10:J:90:HIS:NE2	2.22	0.55
5:E:143:GLU:OE1	5:E:493:SER:HB3	2.05	0.55
5:E:471:ASN:H	5:E:474:LYS:HE2	1.71	0.55
7:G:71:LYS:HG3	7:G:72:THR:HG23	1.87	0.55
15:O:102:LEU:C	15:O:102:LEU:HD13	2.31	0.55
16:P:16:GLU:CB	16:P:74:LEU:CA	2.82	0.55
1:A:1152:LYS:C	1:A:1155:PRO:HD2	2.31	0.55
1:A:3131:ILE:HG12	1:A:3422:LEU:HD12	1.88	0.55
1:A:3237:MET:SD	1:A:3332:ILE:HG21	2.46	0.55
2:B:904:LEU:HB2	2:B:1078:ILE:HG23	1.89	0.55
2:B:1139:LEU:HD23	2:B:1198:ILE:CG1	2.36	0.55
2:B:1330:TRP:O	2:B:1409:SER:C	2.49	0.55
2:B:3122:LEU:HD11	2:B:3448:ILE:HG12	1.88	0.55
2:B:3139:GLY:CA	2:B:3695:LEU:CD2	2.84	0.55
3:C:2581:LEU:HD13	3:C:2937:TYR:OH	2.07	0.55
4:D:195:ILE:CD1	9:I:94:LEU:HD23	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:417:ILE:CD1	4:D:474:VAL:CG2	2.83	0.55
10:J:26:VAL:CG2	10:J:98:PHE:CB	2.72	0.55
10:J:79:PHE:CD2	11:K:68:ALA:HB2	2.41	0.55
14:N:23:GLN:OE1	14:N:23:GLN:HA	2.05	0.55
1:A:666:SER:CB	1:A:695:LEU:CD1	2.84	0.55
1:A:1637:VAL:HG11	1:A:1653:ILE:HG21	1.88	0.55
1:A:3298:ILE:HG22	1:A:3300:GLU:HG3	1.88	0.55
2:B:801:ILE:HG12	2:B:937:PHE:CD1	2.34	0.55
2:B:1474:MET:CE	2:B:1515:VAL:CB	2.83	0.55
3:C:2738:ILE:HG22	3:C:2746:PRO:CG	2.34	0.55
3:C:2760:SER:HB2	3:C:2763:GLU:HG2	1.89	0.55
4:D:111:MET:CE	15:O:90:ILE:HG22	2.22	0.55
4:D:171:ARG:O	13:M:64:HIS:HA	2.05	0.55
4:D:240:SER:CB	7:G:140:ASP:OD2	2.55	0.55
1:A:594:PRO:O	1:A:596:LEU:CD1	2.54	0.55
1:A:1634:ILE:HD13	1:A:1656:ILE:HG22	1.87	0.55
2:B:87:LYS:N	2:B:104:VAL:O	2.39	0.55
2:B:411:ALA:HA	2:B:414:VAL:CG2	2.36	0.55
2:B:718:ILE:CD1	2:B:770:LYS:HA	2.35	0.55
2:B:1119:LYS:HA	2:B:1122:ASP:OD2	2.07	0.55
2:B:2411:ALA:HB3	2:B:2526:ILE:HG23	1.89	0.55
2:B:2531:ARG:HA	2:B:2649:LEU:HD21	1.88	0.55
2:B:2543:GLY:CA	19:B:5501:ADP:PA	2.92	0.55
2:B:3321:PHE:CD2	2:B:3321:PHE:O	2.60	0.55
3:C:217:PHE:HE2	3:C:268:ILE:HD12	1.71	0.55
3:C:1728:LEU:HD12	3:C:1728:LEU:O	2.06	0.55
3:C:2814:CYS:O	3:C:2818:VAL:HG23	2.07	0.55
4:D:109:PHE:HD1	15:O:114:THR:HG1	1.51	0.55
4:D:111:MET:HB3	15:O:95:LEU:N	2.05	0.55
4:D:401:GLN:O	4:D:417:ILE:HG22	2.06	0.55
5:E:56:LEU:HD23	10:J:91:ASN:CA	2.35	0.55
9:I:24:ILE:CG2	9:I:98:PHE:O	2.55	0.55
10:J:79:PHE:CD2	11:K:68:ALA:HB3	2.40	0.55
1:A:403:ALA:HA	1:A:468:GLN:HA	1.88	0.55
1:A:802:ILE:HA	1:A:806:ILE:CG2	2.37	0.55
1:A:1051:GLN:NE2	1:A:1096:TYR:CE2	2.74	0.55
1:A:1133:GLY:HA3	1:A:1268:ARG:CA	2.36	0.55
1:A:1263:TYR:HD2	1:A:1283:LEU:CB	2.18	0.55
1:A:2220:ASN:HD22	1:A:2220:ASN:N	2.04	0.55
1:A:3236:ILE:HA	1:A:3333:LEU:HD23	1.87	0.55
2:B:433:ILE:CB	2:B:463:PHE:CZ	2.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:436:PHE:HB2	2:B:463:PHE:CE2	2.41	0.55
2:B:658:GLN:HG2	2:B:672:ASN:O	2.04	0.55
2:B:946:ARG:NH2	2:B:958:GLU:OE2	2.40	0.55
2:B:984:ASN:O	2:B:987:ARG:HG2	2.07	0.55
3:C:253:LEU:HD12	3:C:253:LEU:C	2.32	0.55
3:C:2670:LYS:HB3	3:C:2848:THR:HG21	1.87	0.55
4:D:68:GLU:CD	5:E:12:LYS:HA	2.29	0.55
5:E:80:TRP:O	8:H:80:TYR:OH	2.25	0.55
5:E:180:SER:HB3	5:E:221:ILE:HG12	1.88	0.55
10:J:61:ALA:HB1	10:J:80:PHE:CE2	2.34	0.55
13:M:17:ILE:HG13	13:M:73:ILE:HD11	1.89	0.55
15:O:76:VAL:HG12	15:O:81:ILE:HD11	1.88	0.55
1:A:1126:VAL:HG11	1:A:1201:TYR:CE1	2.42	0.55
1:A:2839:LEU:CD1	19:A:4901:ADP:C4	2.90	0.55
1:A:3231:ASP:OD2	1:A:3258:PHE:CG	2.52	0.55
1:A:3442:LYS:CG	1:A:3485:THR:CG2	2.84	0.55
2:B:718:ILE:CD1	2:B:773:VAL:CG1	2.84	0.55
2:B:798:ASN:HB2	2:B:874:ALA:HB1	1.78	0.55
2:B:1242:GLN:O	2:B:1251:SER:C	2.48	0.55
2:B:1456:PHE:CG	2:B:1467:PHE:CE1	2.87	0.55
2:B:3242:MET:HA	2:B:3245:LEU:CD1	2.36	0.55
2:B:3262:LEU:C	2:B:3297:PHE:CZ	2.81	0.55
3:C:2585:PHE:HA	3:C:2932:SER:HB3	1.88	0.55
4:D:91:TYR:HB2	13:M:28:VAL:HG13	1.88	0.55
4:D:172:GLU:CA	13:M:64:HIS:HA	2.22	0.55
4:D:367:LEU:HD12	4:D:367:LEU:C	2.32	0.55
5:E:384:LEU:HD23	5:E:417:TRP:CD2	2.40	0.55
5:E:492:ASP:CA	5:E:495:TYR:CZ	2.80	0.55
7:G:119:PRO:HG2	9:I:12:ILE:CD1	2.37	0.55
8:H:45:ILE:HD13	8:H:86:ILE:HG23	1.89	0.55
8:H:59:CYS:O	9:I:85:TYR:HA	2.06	0.55
10:J:29:PRO:HB3	15:O:106:GLN:NE2	2.22	0.55
11:K:5:ALA:HB2	11:K:81:TYR:HB2	1.89	0.55
1:A:909:MET:CE	1:A:955:ILE:CD1	2.70	0.55
1:A:1450:TRP:CH2	1:A:1519:THR:HG23	2.41	0.55
2:B:641:ILE:HG12	2:B:645:GLU:OE2	2.06	0.55
2:B:963:PHE:CD2	3:C:103:THR:CA	2.89	0.55
2:B:2333:PRO:O	20:B:5601:ATP:C2	2.55	0.55
2:B:3132:GLN:HA	2:B:3132:GLN:OE1	2.05	0.55
3:C:2723:PHE:HZ	3:C:2745:LYS:HE3	1.72	0.55
4:D:174:GLN:NE2	12:L:51:LYS:N	2.43	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:248:MET:HG3	7:G:145:LEU:HD22	1.88	0.55
4:D:617:SER:OG	4:D:618:PRO:CD	2.52	0.55
5:E:58:GLU:HA	10:J:89:VAL:HA	1.88	0.55
15:O:31:PRO:CB	15:O:109:ASN:HD21	2.20	0.55
1:A:15:THR:N	2:B:19:SER:O	2.40	0.55
1:A:1190:LEU:HD23	1:A:1190:LEU:O	2.07	0.55
2:B:1612:LEU:HD11	2:B:1637:CYS:HG	1.70	0.55
2:B:2066:LEU:HD22	2:B:2118:ASP:HB3	1.88	0.55
3:C:127:GLN:OE1	3:C:127:GLN:HA	2.07	0.55
3:C:164:HIS:HD2	3:C:201:GLY:HA3	1.71	0.55
3:C:289:ASP:CG	3:C:317:LYS:HE3	2.32	0.55
3:C:2698:LEU:HD21	3:C:2768:LEU:CB	2.35	0.55
4:D:79:ASN:HD22	4:D:80:PRO:HD2	1.70	0.55
12:L:58:VAL:HB	13:M:64:HIS:HE1	1.71	0.55
2:B:260:LEU:HA	2:B:264:LYS:N	2.22	0.55
2:B:532:THR:HG23	2:B:535:ILE:HB	1.88	0.55
2:B:3268:THR:HG22	2:B:3269:LEU:HD13	1.87	0.55
3:C:24:HIS:HE1	3:C:339:GLY:O	1.90	0.55
3:C:25:THR:HG22	3:C:85:HIS:CE1	2.42	0.55
4:D:207:ALA:CA	9:I:24:ILE:CD1	2.75	0.55
5:E:116:VAL:CG1	6:F:99:ALA:HB2	2.37	0.55
8:H:65:PHE:CA	9:I:80:GLY:HA2	2.13	0.55
12:L:70:GLY:O	12:L:109:LYS:NZ	2.40	0.55
12:L:72:GLY:O	12:L:109:LYS:HE3	2.07	0.55
1:A:948:LEU:HB3	1:A:1010:LYS:HD3	1.88	0.54
1:A:1597:LYS:NZ	1:A:1962:ILE:HD12	2.21	0.54
1:A:3251:ILE:HG13	17:Q:82:ASN:CB	2.35	0.54
2:B:591:TRP:HD1	5:E:411:TYR:HH	1.50	0.54
2:B:997:TRP:HA	2:B:997:TRP:HE3	1.71	0.54
2:B:1230:MET:HE1	2:B:1266:VAL:C	2.31	0.54
2:B:3203:ALA:CB	2:B:3370:LYS:CB	2.84	0.54
3:C:10:LEU:HD21	3:C:66:ASN:CA	2.38	0.54
3:C:143:PRO:CG	3:C:187:TRP:CE2	2.85	0.54
3:C:2585:PHE:CE1	3:C:2929:LEU:CB	2.90	0.54
4:D:180:ILE:CG2	10:J:75:TYR:CE1	2.88	0.54
10:J:48:LEU:HD13	10:J:100:ILE:HD12	1.85	0.54
1:A:97:ARG:O	1:A:122:GLU:N	2.40	0.54
1:A:1048:TYR:CE1	1:A:1100:LEU:HB2	2.41	0.54
1:A:1525:PHE:CD1	1:A:1541:PHE:CD2	2.96	0.54
1:A:3251:ILE:HD12	17:Q:83:VAL:N	2.19	0.54
2:B:228:LEU:CB	2:B:291:TYR:O	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:530:LEU:HD12	2:B:530:LEU:O	2.07	0.54
2:B:583:PRO:HG2	2:B:683:GLU:HA	1.88	0.54
2:B:1201:TYR:C	2:B:1201:TYR:CD2	2.85	0.54
2:B:3239:VAL:HB	2:B:3284:MET:CE	2.37	0.54
2:B:3399:GLU:O	2:B:3403:MET:HG2	2.07	0.54
3:C:2701:ILE:HD12	3:C:2704:LYS:HG3	1.89	0.54
4:D:208:TYR:N	9:I:24:ILE:CD1	2.66	0.54
4:D:528:TRP:HD1	4:D:534:SER:C	2.15	0.54
5:E:310:LEU:HD12	5:E:358:ARG:NH1	2.21	0.54
5:E:392:LYS:HD2	5:E:394:TRP:CZ2	2.42	0.54
5:E:425:PHE:HE2	5:E:427:LEU:HD11	1.72	0.54
9:I:85:TYR:CZ	9:I:106:LEU:HD22	2.41	0.54
12:L:51:LYS:C	12:L:51:LYS:HD3	2.32	0.54
12:L:69:ILE:HG22	12:L:69:ILE:O	2.07	0.54
15:O:52:ASP:N	15:O:53:PRO:HD3	2.22	0.54
15:O:105:VAL:HG12	15:O:106:GLN:HG3	1.87	0.54
1:A:714:ARG:O	1:A:718:LEU:HG	2.07	0.54
1:A:853:VAL:HG21	5:E:206:ASN:ND2	2.23	0.54
1:A:909:MET:HE1	1:A:955:ILE:CD1	2.28	0.54
2:B:3445:LYS:HG3	2:B:3487:PRO:CB	2.37	0.54
3:C:24:HIS:CD2	3:C:325:SER:CB	2.89	0.54
3:C:2723:PHE:HZ	3:C:2749:VAL:HG11	1.64	0.54
9:I:96:PHE:HE1	9:I:98:PHE:CD2	2.26	0.54
11:K:46:ILE:HD11	11:K:87:ILE:HD13	1.87	0.54
15:O:24:TYR:HD1	15:O:26:LYS:HE2	1.73	0.54
1:A:847:PHE:CZ	1:A:851:LYS:HE3	2.42	0.54
1:A:1016:PHE:CE2	1:A:1076:LEU:CB	2.89	0.54
1:A:1511:TRP:CB	1:A:1574:LEU:HD11	2.38	0.54
2:B:609:LEU:N	2:B:609:LEU:HD22	2.22	0.54
2:B:666:ASN:HA	2:B:726:LYS:HZ1	1.72	0.54
3:C:2581:LEU:CG	3:C:2936:SER:CB	2.86	0.54
3:C:2669:ILE:HG21	3:C:2843:GLN:O	2.07	0.54
3:C:2708:GLN:CD	3:C:2813:ILE:CG1	2.81	0.54
3:C:2711:SER:CA	3:C:2751:TRP:CZ2	2.89	0.54
3:C:2743:ASN:HD21	3:C:2786:ASN:N	2.04	0.54
5:E:35:VAL:C	14:N:78:HIS:HD1	2.15	0.54
5:E:59:HIS:CE1	10:J:31:GLU:OE1	2.60	0.54
5:E:117:GLU:CB	6:F:17:LEU:CD1	2.80	0.54
6:F:26:PHE:CD1	6:F:49:ALA:HA	2.42	0.54
10:J:21:PHE:CD1	10:J:21:PHE:C	2.83	0.54
1:A:616:LYS:O	1:A:620:PRO:HD3	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:675:ILE:HA	1:A:687:ASN:HB2	1.89	0.54
1:A:869:TYR:O	1:A:871:LEU:HD12	2.08	0.54
1:A:1016:PHE:CE2	1:A:1069:TYR:HB2	2.42	0.54
1:A:1027:CYS:O	1:A:1088:TRP:HZ3	1.89	0.54
1:A:1263:TYR:HE2	1:A:1280:TYR:CA	2.21	0.54
1:A:3317:PHE:CD1	1:A:3333:LEU:CD2	2.88	0.54
2:B:459:ILE:HD11	2:B:502:ARG:HB3	1.90	0.54
2:B:467:VAL:CA	2:B:471:THR:HG1	2.21	0.54
2:B:674:ASP:OD1	2:B:675:PRO:CD	2.55	0.54
2:B:984:ASN:HA	2:B:987:ARG:CD	2.37	0.54
2:B:1455:VAL:HG12	2:B:1456:PHE:H	1.72	0.54
2:B:2544:LYS:CA	19:B:5501:ADP:O1A	2.53	0.54
4:D:509:ASN:HD22	4:D:644:ILE:HD13	1.73	0.54
4:D:536:ILE:HG22	4:D:537:ILE:HG13	1.88	0.54
10:J:82:LYS:HG3	11:K:65:HIS:NE2	2.23	0.54
1:A:121:GLY:C	2:B:105:ALA:O	2.51	0.54
1:A:1088:TRP:CZ2	1:A:1092:TRP:HZ2	2.25	0.54
1:A:2498:ALA:HA	19:A:4701:ADP:O2A	2.07	0.54
1:A:3220:ILE:HG23	1:A:3286:PHE:CE2	2.43	0.54
2:B:900:PHE:HZ	2:B:933:TRP:CZ2	2.26	0.54
2:B:1058:LYS:HB2	2:B:1166:GLU:HG2	1.89	0.54
2:B:1539:ARG:HA	2:B:1546:THR:HG21	1.90	0.54
2:B:3220:ALA:HB3	2:B:3353:VAL:HG23	1.89	0.54
4:D:312:PHE:C	4:D:312:PHE:CD1	2.85	0.54
5:E:110:LYS:HG2	6:F:10:GLN:CG	2.38	0.54
6:F:55:LEU:HB2	7:G:113:VAL:HG21	1.89	0.54
6:F:73:ASP:OD1	7:G:131:LYS:HB2	2.08	0.54
8:H:67:SER:HB3	9:I:78:ILE:HG22	1.84	0.54
13:M:72:TYR:CD1	13:M:72:TYR:C	2.85	0.54
1:A:1031:ILE:HG22	1:A:1034:SER:HG	1.72	0.54
2:B:17:ARG:N	2:B:17:ARG:CB	2.61	0.54
2:B:904:LEU:HD23	2:B:1080:LEU:HG	1.89	0.54
2:B:963:PHE:CD2	3:C:103:THR:C	2.86	0.54
3:C:229:ILE:HD11	3:C:301:TRP:HE1	1.72	0.54
3:C:232:TYR:CD1	3:C:232:TYR:C	2.86	0.54
3:C:2706:PHE:HD1	3:C:2761:PRO:HG3	1.71	0.54
3:C:2800:PRO:HG3	3:C:2818:VAL:CG2	2.37	0.54
4:D:265:ARG:HD3	5:E:125:GLN:HA	1.88	0.54
4:D:517:ILE:CG1	4:D:550:TRP:HZ2	2.14	0.54
9:I:62:TYR:CD1	9:I:62:TYR:C	2.85	0.54
1:A:801:ILE:HD12	1:A:862:LEU:CD2	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:868:LEU:N	1:A:868:LEU:CD1	2.70	0.54
1:A:989:ILE:HG23	1:A:995:ILE:HG21	1.90	0.54
1:A:1396:PRO:HA	1:A:1400:TYR:CA	2.37	0.54
2:B:886:ILE:HD11	2:B:976:LEU:CD2	2.37	0.54
2:B:1467:PHE:CE1	2:B:1569:VAL:CG1	2.90	0.54
2:B:3243:LYS:CE	2:B:3285:ASN:O	2.56	0.54
4:D:174:GLN:HE22	12:L:49:LEU:HB3	1.72	0.54
4:D:260:LYS:CB	4:D:287:TRP:CZ2	2.91	0.54
5:E:50:LEU:HD21	12:L:23:PHE:HB3	1.87	0.54
5:E:50:LEU:HD22	12:L:23:PHE:HB2	1.90	0.54
5:E:77:GLU:OE1	5:E:86:PRO:HB2	2.08	0.54
5:E:80:TRP:CE3	5:E:81:PRO:CD	2.89	0.54
1:A:937:LEU:CD1	1:A:1081:ILE:CG1	2.84	0.54
1:A:1048:TYR:HE1	1:A:1100:LEU:CB	2.20	0.54
1:A:1140:GLU:CD	4:D:165:LYS:CE	2.80	0.54
1:A:1440:TRP:HH2	1:A:1471:LEU:HG	1.73	0.54
2:B:436:PHE:CD2	2:B:463:PHE:CG	2.96	0.54
2:B:969:LEU:CD2	3:C:343:ASN:HA	2.38	0.54
2:B:1521:VAL:HG22	2:B:1585:SER:HB3	1.90	0.54
2:B:1531:ILE:HD11	2:B:1618:LEU:HD22	1.89	0.54
2:B:3085:VAL:HG21	2:B:3456:ALA:HB1	1.89	0.54
2:B:3499:THR:HG21	2:B:3507:TRP:CH2	2.42	0.54
3:C:110:ASP:HB2	3:C:128:ILE:HG12	1.89	0.54
3:C:261:ILE:HG13	3:C:360:PRO:HB2	1.87	0.54
3:C:2701:ILE:HG13	3:C:2704:LYS:CB	2.37	0.54
4:D:89:TYR:CE2	11:K:56:PRO:CD	2.89	0.54
4:D:252:VAL:HA	7:G:149:GLN:NE2	2.23	0.54
4:D:417:ILE:HG23	4:D:417:ILE:O	2.07	0.54
4:D:564:ASP:OD2	4:D:583:LYS:HE2	2.05	0.54
5:E:26:ARG:NH2	5:E:26:ARG:HB2	2.23	0.54
5:E:153:PHE:HB3	5:E:200:TRP:CE2	2.43	0.54
5:E:203:LEU:HD23	5:E:203:LEU:O	2.08	0.54
5:E:308:GLU:OE2	5:E:361:LEU:CD2	2.56	0.54
7:G:119:PRO:CG	9:I:12:ILE:HD13	2.35	0.54
8:H:52:ARG:CA	18:R:63:ASN:CB	2.61	0.54
1:A:3121:LEU:CD2	1:A:3429:TRP:CG	2.81	0.54
1:A:3230:LEU:N	1:A:3233:ILE:HG22	2.23	0.54
2:B:14:ILE:HA	2:B:23:GLY:N	2.22	0.54
2:B:412:LEU:HD13	2:B:412:LEU:O	2.08	0.54
2:B:862:TYR:CD1	2:B:862:TYR:C	2.86	0.54
2:B:1474:MET:SD	2:B:1515:VAL:HG21	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:34:ILE:CG2	3:C:57:VAL:CG1	2.86	0.54
3:C:972:LEU:HD13	3:C:1029:GLU:HG2	1.90	0.54
3:C:2739:GLU:N	3:C:2746:PRO:HB3	2.13	0.54
3:C:2780:VAL:HG12	3:C:2786:ASN:HD21	1.72	0.54
3:C:2927:ASP:OD2	3:C:2974:ILE:HD13	2.06	0.54
4:D:174:GLN:OE1	12:L:49:LEU:HB3	2.08	0.54
4:D:180:ILE:HG21	10:J:75:TYR:CZ	2.43	0.54
12:L:17:PRO:HG2	12:L:35:ILE:HG22	1.90	0.54
12:L:98:LEU:HB2	12:L:101:SER:HB2	1.90	0.54
1:A:889:TYR:CE2	7:G:12:SER:CB	2.91	0.53
1:A:936:GLN:C	1:A:937:LEU:HD12	2.33	0.53
1:A:1048:TYR:CE1	1:A:1100:LEU:CB	2.92	0.53
1:A:2935:LEU:HD12	1:A:2938:ILE:HD11	1.89	0.53
1:A:3232:ILE:CD1	1:A:3316:TRP:CE3	2.76	0.53
2:B:956:LEU:HA	2:B:959:ILE:CG1	2.38	0.53
2:B:2846:LEU:HD11	2:B:2872:VAL:HG11	1.91	0.53
2:B:3878:ILE:HG12	2:B:3887:ALA:HB2	1.90	0.53
2:B:3931:ARG:HB2	2:B:3938:MET:HE3	1.91	0.53
3:C:9:GLN:OE1	3:C:350:TRP:CZ2	2.61	0.53
3:C:53:PRO:CD	3:C:81:PRO:CB	2.85	0.53
3:C:1081:ILE:HD11	3:C:1117:GLN:CB	2.38	0.53
3:C:2217:ASN:HD22	3:C:2247:THR:HG23	1.72	0.53
3:C:2614:ALA:CB	3:C:2903:LEU:HD11	2.38	0.53
3:C:3927:VAL:HG21	3:C:4031:ALA:HB2	1.90	0.53
3:C:4130:VAL:HG23	3:C:4165:MET:HE2	1.90	0.53
4:D:92:TYR:CB	13:M:29:LYS:HB3	2.37	0.53
4:D:251:MET:CE	7:G:136:MET:HE3	2.37	0.53
9:I:11:ASP:H	9:I:14:GLU:HB2	1.73	0.53
10:J:43:GLU:HG2	10:J:67:TYR:CE2	2.43	0.53
12:L:92:VAL:O	12:L:92:VAL:HG12	2.07	0.53
1:A:306:LYS:O	1:A:310:ALA:CB	2.55	0.53
1:A:747:ILE:HD13	1:A:889:TYR:CD1	2.43	0.53
1:A:789:LYS:O	1:A:793:GLN:HG3	2.09	0.53
1:A:804:ASN:CG	5:E:148:LYS:HB3	2.33	0.53
1:A:1060:GLU:O	1:A:1063:GLU:HB3	2.08	0.53
1:A:1130:ASP:HA	1:A:1265:ILE:O	2.08	0.53
2:B:725:ILE:HD12	2:B:780:VAL:CG2	2.38	0.53
2:B:762:ILE:O	2:B:766:ILE:HB	2.07	0.53
2:B:790:ILE:HD13	2:B:863:VAL:HG13	1.90	0.53
2:B:3239:VAL:HG11	2:B:3291:ILE:CD1	2.38	0.53
2:B:3454:ALA:CB	2:B:3497:ILE:HG21	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4311:SER:HA	2:B:4391:ILE:HG21	1.90	0.53
3:C:2709:ALA:CB	3:C:2758:MET:SD	2.96	0.53
3:C:3064:ILE:HG13	3:C:3115:ILE:HD12	1.90	0.53
4:D:91:TYR:CE2	13:M:80:LEU:CD1	2.90	0.53
4:D:172:GLU:CD	12:L:51:LYS:HE2	2.33	0.53
4:D:174:GLN:CD	12:L:49:LEU:HB3	2.33	0.53
4:D:536:ILE:HD13	4:D:648:GLU:HG3	1.89	0.53
8:H:28:ALA:CB	8:H:86:ILE:HD12	2.33	0.53
10:J:44:THR:HG22	10:J:64:LEU:HD22	1.89	0.53
10:J:97:TYR:HB2	10:J:106:LEU:CD1	2.38	0.53
1:A:861:ASP:OD2	5:E:152:LEU:CD1	2.55	0.53
1:A:906:LEU:CD1	1:A:998:VAL:CB	2.59	0.53
1:A:935:VAL:CG1	1:A:1017:LEU:HD22	2.38	0.53
1:A:1597:LYS:HZ1	1:A:1962:ILE:CD1	2.19	0.53
1:A:3345:LYS:CA	1:A:3345:LYS:CE	2.85	0.53
2:B:467:VAL:CG1	2:B:471:THR:HG1	2.16	0.53
2:B:721:ASN:ND2	2:B:773:VAL:HG12	2.24	0.53
2:B:2190:LYS:HE2	20:B:5601:ATP:PB	2.49	0.53
2:B:2863:VAL:HG23	19:B:5602:ADP:N1	2.23	0.53
3:C:106:LEU:HD23	3:C:133:PRO:HB2	1.90	0.53
3:C:972:LEU:HD11	3:C:1017:MET:HE3	1.91	0.53
3:C:1559:LEU:CD2	3:C:1607:LEU:HD21	2.38	0.53
3:C:2804:ALA:HB1	3:C:2811:LYS:HD2	1.90	0.53
4:D:537:ILE:HD11	4:D:647:TYR:CE2	2.42	0.53
4:D:563:MET:O	4:D:563:MET:HE3	2.09	0.53
5:E:59:HIS:CD2	10:J:31:GLU:OE1	2.61	0.53
5:E:162:ARG:HA	5:E:183:ILE:HD11	1.90	0.53
7:G:32:GLN:O	7:G:33:LYS:C	2.52	0.53
10:J:19:LYS:CE	15:O:19:LEU:HD11	2.38	0.53
12:L:58:VAL:HG21	13:M:64:HIS:CE1	2.44	0.53
14:N:68:CYS:HA	15:O:101:CYS:HA	1.90	0.53
1:A:752:LEU:HD21	1:A:795:ILE:HG12	1.90	0.53
1:A:1624:GLN:HA	1:A:1627:PHE:CD2	2.44	0.53
1:A:3533:PRO:HD3	1:A:3648:THR:HG22	1.89	0.53
1:A:3914:ASN:O	1:A:3950:ARG:NH1	2.41	0.53
2:B:225:PRO:CA	2:B:298:LEU:CB	2.86	0.53
2:B:1110:GLN:C	2:B:1114:LEU:HG	2.13	0.53
3:C:881:ILE:O	3:C:881:ILE:HG22	2.09	0.53
3:C:2719:VAL:HG12	3:C:2720:PRO:HD3	1.85	0.53
3:C:4082:TRP:CZ2	3:C:4091:GLY:HA3	2.44	0.53
4:D:537:ILE:CD1	4:D:647:TYR:OH	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:146:SER:H	5:E:491:CYS:HB2	1.73	0.53
5:E:286:GLY:HA3	5:E:316:ILE:HG22	1.91	0.53
14:N:103:ILE:O	14:N:103:ILE:HG22	2.08	0.53
15:O:45:ARG:HB2	15:O:63:LEU:HD11	1.90	0.53
1:A:1513:LYS:CE	1:A:1578:ASN:OD1	2.42	0.53
1:A:3117:PHE:CD2	1:A:3429:TRP:HE3	2.27	0.53
1:A:3293:PHE:HE1	1:A:3335:TRP:HZ2	1.47	0.53
2:B:911:ILE:HD12	2:B:991:ASP:OD2	2.08	0.53
2:B:1099:THR:O	2:B:1163:ARG:NH1	2.42	0.53
2:B:1237:ARG:HD3	2:B:1260:ALA:N	2.22	0.53
3:C:2055:ILE:HG22	3:C:2059:LEU:CD1	2.39	0.53
4:D:199:ILE:HG21	9:I:104:ALA:HB3	1.82	0.53
8:H:69:VAL:HG23	8:H:71:PHE:HD2	1.73	0.53
11:K:25:ALA:HB1	11:K:80:PHE:HE2	1.74	0.53
13:M:21:LYS:HB3	13:M:21:LYS:NZ	2.23	0.53
14:N:82:SER:OG	15:O:57:ASN:OD1	2.26	0.53
14:N:85:ILE:HG21	14:N:98:ILE:HD11	1.50	0.53
1:A:879:LEU:HD12	1:A:882:GLU:CD	2.34	0.53
1:A:1013:VAL:HG13	1:A:1016:PHE:HE1	1.73	0.53
1:A:1051:GLN:CD	1:A:1096:TYR:CE2	2.82	0.53
1:A:2061:THR:HG22	1:A:2073:LEU:HD22	1.90	0.53
1:A:3269:LEU:HD21	1:A:3312:GLN:CD	2.33	0.53
2:B:575:ASN:HB2	5:E:481:GLN:CD	2.34	0.53
2:B:909:SER:C	2:B:995:TYR:HE1	2.16	0.53
2:B:954:ASP:OD2	3:C:222:PHE:O	2.22	0.53
2:B:984:ASN:HA	2:B:987:ARG:HD3	1.90	0.53
2:B:1125:LYS:HG3	2:B:1200:ILE:CG2	2.38	0.53
2:B:1432:ASP:O	2:B:1436:LYS:HG3	2.09	0.53
2:B:3314:ILE:CG1	2:B:3321:PHE:CE2	2.68	0.53
3:C:10:LEU:HD23	3:C:65:ASN:CA	2.39	0.53
3:C:2726:THR:CG2	3:C:2729:LEU:HD12	2.38	0.53
4:D:288:ARG:HB2	4:D:612:THR:HG22	1.91	0.53
4:D:573:VAL:O	4:D:574:ASP:OD1	2.27	0.53
5:E:113:LYS:HE2	6:F:13:GLN:HB2	1.91	0.53
5:E:342:ILE:HB	5:E:359:TYR:HB2	1.89	0.53
7:G:35:LEU:O	7:G:36:LYS:C	2.51	0.53
8:H:62:GLY:CA	9:I:82:GLY:O	2.56	0.53
8:H:76:TYR:CE1	8:H:87:LEU:HD13	2.42	0.53
15:O:64:VAL:HG22	15:O:85:VAL:HB	1.90	0.53
1:A:155:GLY:CA	2:B:168:ILE:N	2.54	0.53
1:A:892:TRP:CZ3	7:G:14:GLN:N	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1034:SER:HB3	1:A:1092:TRP:HZ3	1.74	0.53
1:A:1176:GLU:OE1	1:A:1176:GLU:HA	2.07	0.53
1:A:1205:GLN:HA	1:A:1208:TYR:HB2	1.90	0.53
2:B:736:LEU:CA	2:B:855:SER:HB2	2.30	0.53
3:C:53:PRO:HD2	3:C:81:PRO:HB3	1.89	0.53
3:C:702:PHE:O	3:C:706:LYS:CB	2.56	0.53
3:C:1060:LEU:HD21	3:C:1148:LEU:HD13	1.90	0.53
3:C:1880:VAL:HA	3:C:1883:ILE:HD12	1.90	0.53
4:D:172:GLU:HB3	13:M:64:HIS:HB3	0.55	0.53
5:E:57:SER:OG	10:J:90:HIS:CE1	2.62	0.53
6:F:50:ALA:HB1	8:H:83:GLN:CB	2.39	0.53
7:G:18:GLN:O	7:G:19:GLN:C	2.52	0.53
7:G:31:TYR:O	7:G:32:GLN:C	2.52	0.53
8:H:68:PHE:CE2	9:I:61:LYS:HA	2.43	0.53
10:J:31:GLU:HB2	10:J:95:PHE:O	2.09	0.53
10:J:36:ILE:HG23	10:J:72:PHE:CE1	2.44	0.53
14:N:83:VAL:HG22	15:O:86:VAL:HG23	1.90	0.53
14:N:117:VAL:O	14:N:117:VAL:HG12	2.08	0.53
1:A:607:ILE:HG13	1:A:654:TRP:HE1	1.73	0.53
1:A:791:LEU:HG	1:A:795:ILE:CD1	2.38	0.53
1:A:1136:MET:CA	1:A:1136:MET:CE	2.85	0.53
2:B:638:ASP:O	2:B:642:LEU:HB2	2.08	0.53
2:B:899:LEU:HD12	2:B:900:PHE:CA	2.38	0.53
2:B:1057:LEU:HD11	2:B:1098:TYR:CE2	2.43	0.53
2:B:4545:CYS:SG	2:B:4579:ILE:HD13	2.49	0.53
3:C:2725:ALA:CA	3:C:2728:TYR:CE2	2.85	0.53
4:D:201:GLN:NE2	9:I:102:ASN:CA	2.70	0.53
4:D:564:ASP:CB	4:D:583:LYS:HE2	2.39	0.53
5:E:50:LEU:HD21	12:L:23:PHE:HB2	1.86	0.53
5:E:259:ASN:ND2	5:E:298:ALA:O	2.41	0.53
5:E:378:GLN:OE1	5:E:378:GLN:HA	2.08	0.53
5:E:394:TRP:HD1	5:E:400:THR:C	2.16	0.53
10:J:28:TRP:N	10:J:29:PRO:HD2	2.23	0.53
10:J:78:VAL:HG22	10:J:107:MET:HB3	1.89	0.53
1:A:745:LYS:HB3	1:A:746:PRO:HD2	1.90	0.53
1:A:853:VAL:HB	5:E:206:ASN:OD1	2.05	0.53
1:A:992:ASP:CG	1:A:995:ILE:HG12	2.34	0.53
1:A:1585:GLN:HE21	1:A:1585:GLN:C	2.17	0.53
1:A:2500:THR:OG1	21:A:5002:MG:MG	1.37	0.53
1:A:2877:THR:HG21	1:A:2923:LEU:HD13	1.91	0.53
2:B:508:THR:CG2	2:B:539:GLU:CD	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:559:GLN:HB2	2:B:629:ILE:HD11	1.91	0.53
2:B:1001:GLU:O	2:B:1094:TRP:CZ2	2.62	0.53
2:B:1069:THR:CB	2:B:1070:PRO:HD2	2.33	0.53
2:B:1454:GLN:HB3	2:B:1473:MET:HE2	1.89	0.53
2:B:3927:LEU:HD22	2:B:3938:MET:HE1	1.91	0.53
3:C:289:ASP:OD2	3:C:317:LYS:HB2	2.09	0.53
3:C:1236:ASN:HB3	3:C:1240:MET:HE2	1.90	0.53
3:C:2772:LYS:HD3	3:C:2772:LYS:O	2.08	0.53
4:D:180:ILE:HG21	10:J:75:TYR:HE1	1.73	0.53
4:D:569:TYR:CE1	4:D:578:LYS:HG2	2.28	0.53
5:E:273:SER:O	5:E:273:SER:OG	2.23	0.53
5:E:440:TYR:CD1	5:E:501:GLU:HG2	2.44	0.53
7:G:34:SER:O	7:G:35:LEU:C	2.51	0.53
7:G:36:LYS:O	7:G:37:ARG:C	2.52	0.53
10:J:40:ALA:CB	10:J:68:MET:HE1	2.39	0.53
12:L:92:VAL:HG11	12:L:109:LYS:HB2	1.91	0.53
1:A:948:LEU:HB2	1:A:1010:LYS:CD	2.39	0.53
1:A:1013:VAL:HG13	1:A:1076:LEU:CD2	2.38	0.53
1:A:1273:PHE:HA	4:D:166:PHE:HZ	0.71	0.53
2:B:861:ASP:CG	3:C:170:GLN:HB2	2.30	0.53
2:B:3300:GLU:CD	2:B:3354:LYS:HZ1	2.15	0.53
2:B:3810:GLN:O	2:B:3814:ARG:HD3	2.09	0.53
3:C:2903:LEU:HD23	3:C:2903:LEU:O	2.08	0.53
5:E:470:HIS:CE1	5:E:475:LEU:HD11	2.44	0.53
6:F:14:LEU:CD2	6:F:23:TYR:HD2	2.05	0.53
6:F:62:VAL:HG11	7:G:106:LEU:CD2	2.39	0.53
7:G:17:ILE:O	7:G:18:GLN:C	2.51	0.53
10:J:77:HIS:NE2	11:K:92:LYS:HG2	2.16	0.53
15:O:45:ARG:HG3	15:O:63:LEU:HD12	1.88	0.53
1:A:3257:VAL:HG13	1:A:3267:LEU:N	2.25	0.52
1:A:3318:ASN:HB3	1:A:3321:PHE:HD2	1.74	0.52
2:B:744:MET:HE1	2:B:772:ILE:CG2	2.35	0.52
2:B:3243:LYS:HE3	2:B:3285:ASN:O	2.09	0.52
4:D:175:THR:H	13:M:61:PHE:C	2.12	0.52
4:D:196:CYS:HA	9:I:85:TYR:O	2.09	0.52
4:D:459:GLY:HA2	4:D:476:THR:HA	1.91	0.52
5:E:35:VAL:O	14:N:78:HIS:CE1	2.60	0.52
5:E:48:ILE:HB	12:L:93:LEU:HD23	1.90	0.52
8:H:60:ILE:CA	9:I:85:TYR:HB3	2.38	0.52
10:J:65:LYS:C	10:J:65:LYS:HD3	2.34	0.52
11:K:80:PHE:CD1	11:K:80:PHE:C	2.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:53:TRP:HZ3	13:M:86:LYS:HD2	1.73	0.52
1:A:1012:LYS:NZ	1:A:1072:GLY:HA3	2.24	0.52
1:A:1016:PHE:CD2	1:A:1020:PHE:CE2	2.97	0.52
1:A:1041:ASN:HD21	1:A:1096:TYR:HE1	1.57	0.52
1:A:1428:LYS:O	1:A:1431:THR:OG1	2.24	0.52
1:A:3306:LEU:HD11	1:A:3310:LEU:CD2	2.39	0.52
1:A:3442:LYS:HD2	1:A:3485:THR:CG2	2.39	0.52
2:B:682:LYS:NZ	5:E:186:PHE:HE1	1.88	0.52
2:B:1117:ILE:HD13	2:B:1186:PRO:HB3	1.91	0.52
2:B:3261:ILE:C	2:B:3306:ILE:CG2	2.83	0.52
3:C:147:TYR:C	3:C:147:TYR:CD2	2.87	0.52
4:D:94:ARG:CZ	13:M:78:ASN:HD22	2.16	0.52
4:D:584:ILE:CG2	4:D:614:VAL:HG22	2.37	0.52
4:D:588:PRO:HB2	4:D:606:ASP:HB3	1.92	0.52
6:F:11:LEU:CB	6:F:23:TYR:CZ	2.93	0.52
1:A:1012:LYS:CE	1:A:1072:GLY:H	2.06	0.52
1:A:3212:VAL:HG13	1:A:3335:TRP:NE1	2.25	0.52
1:A:4505:THR:HG22	1:A:4558:VAL:HG12	1.91	0.52
2:B:518:TYR:CB	5:E:404:ARG:NH1	2.69	0.52
2:B:644:TRP:CZ3	2:B:695:PRO:HB3	2.44	0.52
2:B:791:HIS:NE2	2:B:866:ILE:CD1	2.71	0.52
2:B:2742:ARG:HG3	19:B:5501:ADP:O3'	2.08	0.52
2:B:3139:GLY:CA	2:B:3695:LEU:HD21	2.38	0.52
3:C:1556:PHE:CE1	3:C:1580:ILE:HG23	2.45	0.52
3:C:2902:ALA:CB	3:C:3193:LEU:HB3	2.39	0.52
4:D:106:ILE:HD12	4:D:106:ILE:C	2.34	0.52
4:D:240:SER:HB2	7:G:140:ASP:OD2	2.09	0.52
5:E:41:VAL:HG22	5:E:42:GLN:HG3	1.91	0.52
12:L:77:ILE:CD1	13:M:65:ILE:HD11	2.39	0.52
1:A:5:LYS:C	1:A:6:TYR:N	2.67	0.52
1:A:18:CYS:CB	2:B:17:ARG:CB	2.87	0.52
1:A:552:PHE:CB	1:A:568:ARG:HH12	2.22	0.52
1:A:614:PHE:CE1	1:A:644:LEU:CD2	2.83	0.52
1:A:1048:TYR:CE1	1:A:1100:LEU:HA	2.43	0.52
1:A:1620:PRO:HB2	1:A:1639:PHE:CZ	2.44	0.52
1:A:1868:GLY:O	1:A:1973:PHE:HA	2.10	0.52
1:A:3550:ILE:HG12	1:A:3554:CYS:HB2	1.90	0.52
2:B:500:GLU:HB3	2:B:535:ILE:HG21	1.90	0.52
2:B:508:THR:HG22	2:B:539:GLU:OE2	2.10	0.52
2:B:582:MET:SD	2:B:587:GLY:CA	2.94	0.52
2:B:642:LEU:CD1	2:B:646:LYS:HE3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:887:ASN:HB3	2:B:975:ASN:ND2	2.25	0.52
2:B:3850:LEU:O	2:B:3931:ARG:NH2	2.42	0.52
2:B:4152:ASN:HD21	2:B:4553:ARG:CZ	2.22	0.52
3:C:215:MET:HB3	3:C:231:ILE:HG22	1.91	0.52
3:C:346:LEU:CD1	3:C:346:LEU:N	2.73	0.52
3:C:2793:LEU:O	3:C:2796:PRO:O	2.27	0.52
3:C:2927:ASP:CG	3:C:2974:ILE:CD1	2.74	0.52
3:C:2943:LYS:HB3	3:C:2994:VAL:HG11	1.92	0.52
4:D:291:ASN:HB3	4:D:294:GLN:HB2	1.92	0.52
4:D:379:ASN:HB3	4:D:381:HIS:CD2	2.44	0.52
4:D:405:ASN:ND2	4:D:406:PRO:CD	2.57	0.52
14:N:85:ILE:HG21	14:N:98:ILE:CG1	2.38	0.52
1:A:751:LEU:HD21	1:A:866:ILE:HD13	1.90	0.52
1:A:2143:LEU:HD23	1:A:2170:LEU:HD12	1.91	0.52
2:B:425:ASP:O	2:B:489:PHE:CE2	2.62	0.52
2:B:718:ILE:HD12	2:B:773:VAL:CG1	2.40	0.52
2:B:1087:LEU:O	2:B:1091:VAL:HG23	2.10	0.52
2:B:2960:ILE:HB	2:B:2961:PRO:HD3	1.90	0.52
3:C:10:LEU:HD11	3:C:67:CYS:CB	2.39	0.52
3:C:1726:TYR:CE2	3:C:1728:LEU:HD21	2.44	0.52
3:C:2357:LEU:HB3	3:C:2512:ILE:HG22	1.92	0.52
3:C:2743:ASN:HB3	3:C:2789:LYS:HE3	1.91	0.52
3:C:2807:SER:OG	3:C:2810:ALA:HB3	2.09	0.52
4:D:105:MET:HE3	14:N:48:GLN:HA	1.87	0.52
4:D:404:TRP:CZ3	4:D:412:TYR:HB3	2.44	0.52
6:F:26:PHE:HD1	6:F:49:ALA:HB2	1.67	0.52
8:H:66:GLY:CA	9:I:79:ILE:O	2.55	0.52
10:J:36:ILE:HG23	10:J:72:PHE:CE2	2.44	0.52
10:J:99:TYR:CE1	10:J:104:ALA:HB2	2.43	0.52
1:A:15:THR:HA	2:B:19:SER:CA	2.29	0.52
1:A:573:LEU:HD22	1:A:633:GLU:HG2	1.90	0.52
1:A:879:LEU:HB2	1:A:882:GLU:CD	2.35	0.52
1:A:891:PHE:HD1	1:A:972:TRP:CD2	2.25	0.52
1:A:1069:TYR:HE1	1:A:1078:THR:HG21	1.65	0.52
2:B:725:ILE:HD12	2:B:780:VAL:HB	1.92	0.52
2:B:815:ASP:O	2:B:819:LYS:CG	2.53	0.52
2:B:902:ILE:HG23	2:B:915:PRO:HG3	1.90	0.52
2:B:1378:LEU:CB	2:B:1424:GLU:CG	2.85	0.52
2:B:1784:ARG:HG2	2:B:1788:ILE:HD12	1.92	0.52
3:C:25:THR:CG2	3:C:87:SER:HB2	2.36	0.52
3:C:2721:GLU:HG2	3:C:2814:CYS:SG	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2726:THR:OG1	3:C:2729:LEU:HD12	2.10	0.52
3:C:2738:ILE:CG2	3:C:2746:PRO:CD	2.49	0.52
4:D:285:PRO:HA	4:D:614:VAL:HG22	1.92	0.52
4:D:331:LEU:N	4:D:331:LEU:CD1	2.73	0.52
4:D:528:TRP:NE1	4:D:535:GLN:N	2.56	0.52
4:D:585:VAL:HG11	4:D:588:PRO:CG	2.40	0.52
6:F:91:GLN:HG2	6:F:96:THR:HB	1.90	0.52
7:G:30:ILE:O	7:G:31:TYR:C	2.51	0.52
9:I:24:ILE:CD1	9:I:98:PHE:HE1	2.22	0.52
9:I:26:ASN:ND2	9:I:98:PHE:HE2	2.08	0.52
10:J:100:ILE:O	10:J:100:ILE:HG13	2.09	0.52
11:K:73:ASP:HB2	11:K:76:ASN:HD22	1.73	0.52
12:L:59:LYS:NZ	12:L:59:LYS:CB	2.73	0.52
12:L:76:CYS:HB2	12:L:107:LEU:CD1	2.34	0.52
12:L:77:ILE:HD11	13:M:65:ILE:CD1	2.39	0.52
15:O:103:TRP:C	15:O:103:TRP:CD1	2.88	0.52
1:A:737:TYR:CD1	1:A:759:LEU:HD21	2.43	0.52
1:A:746:PRO:HA	1:A:749:LYS:HG3	1.91	0.52
1:A:830:LEU:N	1:A:830:LEU:CD1	2.73	0.52
2:B:53:ILE:HA	2:B:88:GLY:O	2.10	0.52
2:B:582:MET:HE1	2:B:590:THR:OG1	2.10	0.52
2:B:879:LEU:HB3	2:B:968:CYS:SG	2.50	0.52
2:B:888:PRO:HA	2:B:891:ILE:HG21	1.90	0.52
2:B:899:LEU:HD12	2:B:899:LEU:C	2.33	0.52
2:B:1002:GLN:C	2:B:1004:SER:H	2.18	0.52
2:B:1566:ASN:CG	3:C:2275:LYS:CE	2.83	0.52
2:B:4165:SER:HA	2:B:4194:MET:HE3	1.91	0.52
3:C:132:GLU:OE2	3:C:133:PRO:CD	2.53	0.52
3:C:172:LEU:C	3:C:172:LEU:HD12	2.34	0.52
3:C:252:ASN:O	3:C:271:GLY:HA2	2.10	0.52
3:C:2012:SER:O	3:C:2014:CYS:N	2.43	0.52
3:C:2585:PHE:CE1	3:C:2929:LEU:HB2	2.45	0.52
3:C:2703:LYS:HD2	3:C:2703:LYS:H	1.75	0.52
3:C:2725:ALA:O	3:C:2729:LEU:CD2	2.57	0.52
3:C:3012:ILE:CD1	3:C:3121:LEU:HD11	2.40	0.52
4:D:70:MET:HE1	5:E:13:GLU:HB3	1.91	0.52
4:D:261:TYR:O	5:E:125:GLN:OE1	2.26	0.52
5:E:24:GLU:CG	14:N:91:THR:HG22	2.40	0.52
9:I:96:PHE:HE1	9:I:98:PHE:HD2	1.58	0.52
12:L:23:PHE:CE2	12:L:25:ASP:HB2	2.45	0.52
15:O:65:LEU:HD12	15:O:65:LEU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:PRO:CA	1:A:376:ASN:CB	2.88	0.52
1:A:599:ASN:HB2	4:D:400:TRP:CZ2	2.45	0.52
1:A:1062:ILE:HG23	1:A:1082:CYS:SG	2.49	0.52
1:A:1126:VAL:CG1	1:A:1132:LEU:HA	2.39	0.52
1:A:1407:ALA:O	1:A:1416:ILE:HD13	2.10	0.52
1:A:3117:PHE:CE2	1:A:3429:TRP:HZ3	2.25	0.52
1:A:3249:ILE:HD11	1:A:3273:TYR:C	2.34	0.52
1:A:3568:LEU:HD23	1:A:3568:LEU:C	2.35	0.52
2:B:801:ILE:HD12	2:B:879:LEU:N	2.23	0.52
2:B:913:PHE:CE2	2:B:1078:ILE:HD13	2.34	0.52
3:C:43:LYS:HG2	3:C:51:ILE:HD12	1.91	0.52
3:C:2784:ASN:C	3:C:2787:ILE:HG22	2.30	0.52
4:D:294:GLN:HB3	4:D:297:LYS:CE	2.40	0.52
4:D:401:GLN:HB3	4:D:417:ILE:HG21	1.90	0.52
5:E:49:ASP:OD1	12:L:85:SER:HB2	2.09	0.52
5:E:121:TYR:OH	6:F:17:LEU:CD2	2.58	0.52
6:F:27:ASN:HB2	6:F:33:LEU:HD21	1.92	0.52
7:G:33:LYS:O	7:G:34:SER:C	2.51	0.52
8:H:32:ILE:CD1	8:H:81:VAL:HG11	2.36	0.52
14:N:86:THR:HG1	15:O:83:VAL:HG13	1.70	0.52
1:A:770:LEU:HD22	1:A:774:SER:OG	2.10	0.52
1:A:773:THR:HG22	1:A:773:THR:O	2.10	0.52
1:A:1126:VAL:HG13	1:A:1131:SER:OG	2.10	0.52
1:A:1443:MET:HG3	1:A:1561:VAL:CG2	2.40	0.52
1:A:2746:VAL:HG12	1:A:3026:TRP:CD2	2.44	0.52
1:A:3232:ILE:CB	1:A:3316:TRP:CE3	2.92	0.52
1:A:3251:ILE:CD1	17:Q:82:ASN:CA	2.87	0.52
1:A:3345:LYS:HA	1:A:3345:LYS:CE	2.40	0.52
1:A:3421:SER:CB	1:A:3716:LEU:HD21	2.40	0.52
2:B:57:ASN:O	2:B:84:PHE:N	2.41	0.52
2:B:619:TYR:CD1	2:B:619:TYR:C	2.88	0.52
2:B:902:ILE:O	2:B:1077:ARG:O	2.28	0.52
2:B:1102:LEU:HB3	2:B:1106:PHE:CD2	2.45	0.52
2:B:1511:VAL:CB	2:B:1570:VAL:HG11	2.40	0.52
2:B:1529:TYR:HA	2:B:1549:PHE:CE2	2.45	0.52
2:B:3231:VAL:CG1	2:B:3339:TRP:CD1	2.92	0.52
2:B:3264:ASN:ND2	2:B:3303:GLU:CD	2.64	0.52
4:D:101:LEU:HD23	4:D:101:LEU:C	2.35	0.52
4:D:184:GLY:CA	11:K:69:TYR:CE1	2.93	0.52
4:D:297:LYS:NZ	4:D:328:LEU:HD13	2.25	0.52
4:D:593:LEU:HD12	4:D:593:LEU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:35:ARG:NH2	6:F:41:SER:CB	2.71	0.52
9:I:11:ASP:HB2	9:I:14:GLU:HG2	1.91	0.52
1:A:804:ASN:HD22	5:E:148:LYS:CA	2.22	0.52
1:A:1140:GLU:CD	4:D:165:LYS:HE3	2.35	0.52
1:A:1631:PHE:HZ	1:A:1684:LEU:HD22	1.74	0.52
1:A:1789:VAL:HG21	1:A:2010:VAL:HG22	1.92	0.52
2:B:58:SER:O	2:B:68:SER:O	0.58	0.52
2:B:411:ALA:CA	2:B:414:VAL:HG23	2.39	0.52
2:B:1081:GLN:HA	2:B:1081:GLN:NE2	2.24	0.52
2:B:1106:PHE:CE1	2:B:1160:ILE:HD11	2.40	0.52
2:B:1139:LEU:HD23	2:B:1198:ILE:HG13	1.92	0.52
2:B:3242:MET:HA	2:B:3245:LEU:HG	1.92	0.52
3:C:113:ILE:HD11	3:C:124:PRO:HB3	1.91	0.52
3:C:336:ILE:HG22	3:C:349:LEU:HD11	1.92	0.52
3:C:2701:ILE:CG1	3:C:2704:LYS:CG	2.87	0.52
16:P:24:ASN:HA	16:P:96:GLY:HA3	1.91	0.52
1:A:37:ASN:O	1:A:41:LEU:N	2.43	0.51
1:A:688:PHE:CD2	1:A:772:TRP:CH2	2.99	0.51
1:A:768:VAL:O	1:A:768:VAL:HG12	2.09	0.51
2:B:580:LEU:HD22	2:B:580:LEU:N	2.24	0.51
2:B:799:VAL:C	2:B:800:LYS:HA	2.33	0.51
2:B:1080:LEU:N	2:B:1080:LEU:CD1	2.73	0.51
2:B:1230:MET:CE	2:B:1267:TYR:CA	2.87	0.51
2:B:1498:TYR:O	2:B:1502:GLU:HG2	2.10	0.51
2:B:2023:ARG:NH2	2:B:4194:MET:SD	2.82	0.51
2:B:3118:TYR:CZ	2:B:3452:LEU:HD13	2.45	0.51
2:B:3288:GLN:NE2	2:B:3288:GLN:HA	2.24	0.51
2:B:4168:VAL:HG21	2:B:4194:MET:HE1	1.92	0.51
3:C:2701:ILE:CG1	3:C:2704:LYS:CD	2.73	0.51
3:C:2701:ILE:HG12	3:C:2704:LYS:HD2	1.90	0.51
6:F:66:ASP:HB3	7:G:102:SER:HB2	1.92	0.51
7:G:16:ILE:O	7:G:17:ILE:C	2.52	0.51
11:K:37:LYS:HG2	11:K:37:LYS:O	2.10	0.51
16:P:57:ILE:O	16:P:62:LYS:N	2.43	0.51
1:A:1013:VAL:CB	1:A:1076:LEU:HD11	2.40	0.51
1:A:1514:VAL:HG12	1:A:1548:TRP:CZ3	2.45	0.51
2:B:426:ILE:HG12	2:B:485:PHE:CZ	2.44	0.51
2:B:468:GLN:HA	2:B:471:THR:HB	1.91	0.51
2:B:713:VAL:CG1	5:E:258:GLU:CD	2.80	0.51
2:B:736:LEU:HD23	2:B:736:LEU:C	2.35	0.51
2:B:3178:VAL:CB	2:B:3395:LEU:HD21	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4370:ILE:HD13	2:B:4384:MET:HB3	1.91	0.51
3:C:106:LEU:HD12	3:C:106:LEU:H	1.75	0.51
4:D:180:ILE:CG2	10:J:75:TYR:HE1	2.23	0.51
4:D:537:ILE:HD11	4:D:651:LYS:HD2	1.92	0.51
7:G:37:ARG:O	7:G:38:LYS:C	2.51	0.51
7:G:119:PRO:CG	9:I:12:ILE:CB	2.85	0.51
1:A:730:LEU:HD23	1:A:781:LEU:CD2	2.40	0.51
1:A:804:ASN:HD22	5:E:148:LYS:HA	1.75	0.51
1:A:3191:LYS:NZ	1:A:3191:LYS:CB	2.73	0.51
2:B:58:SER:CB	2:B:70:LYS:CB	2.88	0.51
2:B:798:ASN:CB	2:B:874:ALA:HA	2.39	0.51
2:B:3078:ILE:CD1	2:B:3452:LEU:CD2	2.84	0.51
2:B:3303:GLU:OE1	2:B:3306:ILE:HD11	2.10	0.51
2:B:4103:LEU:HD12	2:B:4256:LEU:HD22	1.92	0.51
2:B:4440:MET:HB2	2:B:4443:ARG:HG2	1.92	0.51
3:C:180:LEU:O	3:C:180:LEU:CD1	2.49	0.51
4:D:97:LYS:CE	13:M:32:LYS:HE2	2.40	0.51
4:D:306:PRO:HG3	4:D:357:PRO:HA	1.91	0.51
4:D:397:ASP:CB	4:D:398:PRO:CD	2.85	0.51
5:E:383:PHE:C	5:E:383:PHE:CD1	2.87	0.51
8:H:29:LYS:NZ	8:H:29:LYS:CB	2.73	0.51
9:I:75:TRP:CZ3	9:I:109:LYS:HB2	2.45	0.51
9:I:100:ASN:O	9:I:100:ASN:OD1	2.27	0.51
1:A:805:ARG:HD2	1:A:858:ALA:HB2	1.92	0.51
1:A:805:ARG:HH22	5:E:152:LEU:CD1	2.23	0.51
1:A:1274:GLY:H	4:D:166:PHE:HE1	1.53	0.51
1:A:1643:LYS:HE3	1:A:1675:LYS:NZ	2.25	0.51
1:A:3260:LYS:HZ3	1:A:3267:LEU:HD22	1.75	0.51
2:B:3327:ALA:HA	2:B:3334:SER:HB2	1.92	0.51
3:C:58:PHE:CD2	3:C:71:GLN:HB3	2.45	0.51
3:C:154:PHE:CD1	3:C:207:MET:HE2	2.46	0.51
3:C:190:LEU:CD2	3:C:232:TYR:OH	2.58	0.51
4:D:269:SER:HB2	4:D:618:PRO:CD	2.39	0.51
4:D:290:SER:HB3	4:D:610:GLY:HA2	1.92	0.51
4:D:421:GLY:CA	4:D:441:LEU:HD12	2.31	0.51
4:D:551:ALA:HB3	4:D:557:VAL:HB	1.93	0.51
5:E:56:LEU:HD23	10:J:91:ASN:HA	1.91	0.51
5:E:64:GLU:CD	10:J:18:TYR:CE2	2.88	0.51
5:E:391:CYS:SG	5:E:427:LEU:HD13	2.49	0.51
5:E:433:TRP:CE2	5:E:451:LYS:HB2	2.45	0.51
6:F:54:ASP:CG	7:G:109:LYS:CE	2.82	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:24:ILE:HG23	9:I:98:PHE:O	2.10	0.51
10:J:79:PHE:HE2	11:K:88:LEU:HD23	1.72	0.51
1:A:326:PRO:HA	1:A:376:ASN:CB	2.40	0.51
1:A:1511:TRP:CB	1:A:1574:LEU:CD1	2.88	0.51
1:A:4046:CYS:SG	1:A:4074:ILE:HG23	2.49	0.51
2:B:524:LEU:HD23	2:B:524:LEU:O	2.10	0.51
3:C:2725:ALA:CA	3:C:2728:TYR:HE2	2.10	0.51
6:F:26:PHE:HD1	6:F:49:ALA:CB	2.20	0.51
8:H:16:MET:CE	8:H:77:ILE:HD12	2.40	0.51
13:M:21:LYS:NZ	13:M:21:LYS:CB	2.73	0.51
16:P:24:ASN:CA	16:P:96:GLY:CA	2.89	0.51
1:A:1041:ASN:HA	1:A:1047:ASN:ND2	2.22	0.51
1:A:1140:GLU:CD	4:D:165:LYS:HE2	2.36	0.51
1:A:1522:GLU:HA	1:A:1541:PHE:CZ	2.44	0.51
1:A:1524:VAL:HG22	1:A:1611:LEU:HD22	1.92	0.51
1:A:1637:VAL:CG1	1:A:1653:ILE:HG21	2.41	0.51
2:B:59:THR:O	2:B:81:ILE:C	2.51	0.51
2:B:625:LEU:HD23	2:B:625:LEU:O	2.10	0.51
2:B:1205:PHE:CZ	2:B:1284:LEU:O	2.64	0.51
2:B:1492:LYS:NZ	2:B:3606:GLN:HB2	2.25	0.51
2:B:2240:VAL:HG21	2:B:2640:GLU:HG3	1.92	0.51
2:B:3303:GLU:OE1	2:B:3306:ILE:HD12	2.08	0.51
2:B:3422:LEU:HD12	2:B:3716:LEU:HD11	1.91	0.51
3:C:192:PRO:HB3	3:C:237:ASP:C	2.36	0.51
3:C:2581:LEU:HG	3:C:2936:SER:CB	2.41	0.51
3:C:2727:ILE:HD12	3:C:2745:LYS:CB	2.13	0.51
4:D:410:LYS:HE3	4:D:413:ASN:ND2	2.25	0.51
4:D:421:GLY:CA	4:D:441:LEU:CD1	2.89	0.51
5:E:117:GLU:CD	6:F:17:LEU:HD21	2.30	0.51
6:F:48:ILE:CG1	6:F:98:LEU:CD2	2.85	0.51
12:L:69:ILE:HG21	12:L:92:VAL:HG22	1.92	0.51
14:N:115:MET:CE	15:O:129:CYS:SG	2.76	0.51
15:O:91:LYS:HB2	15:O:91:LYS:HZ3	1.76	0.51
1:A:384:LYS:CB	1:A:408:VAL:CB	2.89	0.51
1:A:2960:LEU:HA	1:A:2963:ILE:HD12	1.92	0.51
1:A:2963:ILE:HD13	1:A:2987:PHE:HB2	1.93	0.51
1:A:3212:VAL:HG13	1:A:3335:TRP:CE2	2.45	0.51
2:B:671:VAL:HG12	2:B:673:PHE:H	1.75	0.51
2:B:801:ILE:CG1	2:B:937:PHE:CD1	2.71	0.51
2:B:1456:PHE:CZ	2:B:1563:VAL:HG11	2.28	0.51
2:B:1562:GLU:O	2:B:1565:ALA:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3082:MET:SD	2:B:3115:ILE:HD12	2.51	0.51
2:B:3133:ILE:O	2:B:3133:ILE:HD13	2.11	0.51
2:B:3457:PHE:O	2:B:3461:ILE:HB	2.11	0.51
3:C:10:LEU:HD11	3:C:67:CYS:N	2.25	0.51
3:C:2723:PHE:CZ	3:C:2745:LYS:HE3	2.45	0.51
3:C:4017:LEU:HD21	3:C:4022:LEU:HD11	1.93	0.51
5:E:46:ASN:O	12:L:88:PHE:CZ	2.63	0.51
5:E:384:LEU:H	5:E:417:TRP:HE1	1.59	0.51
7:G:125:PHE:CZ	7:G:136:MET:CE	2.94	0.51
2:B:1117:ILE:HG12	2:B:1190:ILE:HD11	0.74	0.51
2:B:1584:TRP:HA	2:B:1584:TRP:HE3	1.74	0.51
2:B:3183:ALA:O	2:B:3187:GLU:HG3	2.11	0.51
3:C:180:LEU:HD23	3:C:187:TRP:CH2	2.41	0.51
3:C:499:THR:CB	3:C:698:GLU:CB	2.89	0.51
3:C:2592:LYS:HD3	3:C:2924:MET:HG3	1.93	0.51
3:C:2800:PRO:CB	3:C:2818:VAL:CG2	2.85	0.51
5:E:119:CYS:HB2	6:F:88:ILE:HD13	1.89	0.51
12:L:32:LYS:HE2	12:L:36:ARG:HH22	1.76	0.51
1:A:590:GLN:CB	1:A:609:TRP:HZ2	2.03	0.51
1:A:1449:ILE:HG13	1:A:1452:LYS:HZ1	1.76	0.51
1:A:3446:ASN:HA	1:A:3488:LEU:HD22	1.92	0.51
2:B:582:MET:CE	2:B:587:GLY:HA3	2.03	0.51
2:B:648:VAL:HG22	2:B:680:LEU:CD1	2.40	0.51
2:B:1125:LYS:HG3	2:B:1200:ILE:HG21	1.93	0.51
2:B:3272:PRO:HG2	2:B:3275:LYS:HG3	1.92	0.51
2:B:4148:PRO:HB3	2:B:4551:GLU:O	2.11	0.51
3:C:379:LYS:HA	3:C:418:CYS:O	2.11	0.51
4:D:70:MET:HE2	5:E:13:GLU:CD	2.35	0.51
4:D:588:PRO:HG2	4:D:606:ASP:OD2	2.11	0.51
10:J:86:CYS:SG	11:K:61:VAL:CB	2.98	0.51
15:O:19:LEU:HD23	15:O:19:LEU:C	2.35	0.51
1:A:1048:TYR:CD1	1:A:1100:LEU:HD12	2.39	0.51
1:A:1274:GLY:CA	4:D:164:ASN:OD1	2.58	0.51
1:A:1430:ARG:HG3	1:A:1490:PHE:CD2	2.44	0.51
1:A:2746:VAL:HG12	1:A:3026:TRP:CE2	2.46	0.51
2:B:736:LEU:HD23	2:B:855:SER:OG	2.11	0.51
2:B:766:ILE:HG23	2:B:770:LYS:HE2	1.91	0.51
2:B:935:ASN:CB	3:C:283:THR:HG22	2.40	0.51
2:B:1083:MET:SD	2:B:1083:MET:C	2.94	0.51
2:B:3147:GLN:CA	2:B:3426:LEU:HD13	2.40	0.51
2:B:3237:PRO:HG2	2:B:3238:HIS:HD2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:53:PRO:CD	3:C:81:PRO:HB3	2.40	0.51
4:D:399:VAL:HA	4:D:418:SER:HA	1.93	0.51
4:D:410:LYS:HG3	4:D:413:ASN:HD21	1.76	0.51
4:D:569:TYR:CE2	4:D:578:LYS:HG3	2.40	0.51
5:E:282:THR:HG23	5:E:322:LEU:CD1	2.25	0.51
5:E:302:GLU:OE1	5:E:302:GLU:HA	2.11	0.51
10:J:28:TRP:CE3	10:J:28:TRP:HA	2.46	0.51
10:J:110:THR:HG22	10:J:110:THR:O	2.10	0.51
11:K:70:VAL:HG11	11:K:90:TYR:CZ	2.46	0.51
16:P:15:SER:CB	16:P:18:HIS:H	2.23	0.51
1:A:935:VAL:CG1	1:A:1017:LEU:CD2	2.89	0.50
1:A:935:VAL:HG13	1:A:944:LEU:CD2	2.41	0.50
1:A:1016:PHE:CD2	1:A:1069:TYR:HB2	2.46	0.50
1:A:1596:ARG:HH21	1:A:1610:LEU:CD2	2.23	0.50
1:A:1597:LYS:HZ2	1:A:1962:ILE:HD12	1.74	0.50
1:A:1638:THR:CG2	1:A:1655:GLN:HG2	2.42	0.50
1:A:2101:ILE:HG22	1:A:4498:LEU:HB2	1.92	0.50
1:A:2430:ASP:O	1:A:2443:CYS:SG	2.52	0.50
1:A:2490:LEU:HD11	1:A:2611:MET:HG2	1.91	0.50
1:A:3257:VAL:HG13	1:A:3266:VAL:CA	2.35	0.50
2:B:410:ASN:O	2:B:414:VAL:HG22	2.10	0.50
2:B:1458:PHE:HD1	2:B:1560:MET:CE	2.19	0.50
2:B:1566:ASN:OD1	3:C:2275:LYS:CD	2.59	0.50
2:B:1604:LYS:HA	2:B:1945:GLN:NE2	2.26	0.50
3:C:2663:ALA:HB2	3:C:2855:GLU:OE2	2.11	0.50
3:C:2726:THR:OG1	3:C:2729:LEU:CD1	2.59	0.50
3:C:2774:VAL:CG1	3:C:2780:VAL:HG22	2.40	0.50
4:D:107:VAL:HG11	15:O:96:ARG:NH2	2.26	0.50
4:D:281:GLY:HA3	4:D:580:ALA:HB2	1.92	0.50
4:D:292:GLU:HA	4:D:295:ARG:HG3	1.92	0.50
4:D:553:TYR:HE1	4:D:595:PHE:CE2	2.29	0.50
10:J:74:PRO:CD	12:L:102:ARG:CZ	2.77	0.50
1:A:801:ILE:HG22	1:A:862:LEU:HD21	1.78	0.50
1:A:935:VAL:HG11	1:A:1017:LEU:HD22	1.92	0.50
1:A:2564:MET:N	1:A:2565:PRO:HD2	2.26	0.50
2:B:409:SER:HB2	2:B:413:PHE:HB2	1.93	0.50
2:B:440:GLU:HB2	2:B:460:PHE:CG	2.46	0.50
2:B:1514:VAL:HG12	2:B:1570:VAL:HG22	1.92	0.50
2:B:3139:GLY:HA3	2:B:3695:LEU:HD21	1.93	0.50
2:B:3231:VAL:HG22	2:B:3342:ASN:C	2.36	0.50
2:B:3446:SER:HB3	2:B:3489:THR:CG2	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:76:GLY:O	3:C:77:ASP:OD1	2.30	0.50
3:C:2800:PRO:HG3	3:C:2818:VAL:HG21	1.92	0.50
4:D:68:GLU:HG2	5:E:12:LYS:C	2.36	0.50
4:D:111:MET:SD	15:O:90:ILE:CG2	3.00	0.50
4:D:242:LYS:HG2	7:G:60:VAL:HG21	1.89	0.50
4:D:590:LEU:N	4:D:590:LEU:CD1	2.73	0.50
10:J:44:THR:HG22	10:J:64:LEU:CD2	2.41	0.50
11:K:77:PHE:CE1	11:K:88:LEU:CD1	2.82	0.50
1:A:573:LEU:CD2	1:A:633:GLU:HG2	2.42	0.50
1:A:607:ILE:CD1	1:A:655:PHE:HA	2.38	0.50
1:A:845:THR:O	1:A:849:THR:HG23	2.10	0.50
1:A:1136:MET:HA	1:A:1136:MET:CE	2.26	0.50
1:A:1517:LEU:HD13	1:A:1581:LEU:HB3	1.92	0.50
1:A:1631:PHE:CZ	1:A:1687:LEU:HD22	2.45	0.50
1:A:1787:ILE:HD13	1:A:1847:ILE:HD11	1.93	0.50
1:A:2840:VAL:CG1	1:A:3041:THR:HG21	2.42	0.50
2:B:762:ILE:O	2:B:766:ILE:CG1	2.60	0.50
2:B:1071:GLU:HG2	2:B:1079:ASN:HD22	1.75	0.50
2:B:3429:GLU:OE1	2:B:3429:GLU:HA	2.12	0.50
3:C:36:PHE:CZ	3:C:97:VAL:HG11	2.47	0.50
3:C:214:LEU:CD1	3:C:214:LEU:N	2.74	0.50
3:C:2584:LEU:HD21	3:C:2935:VAL:CG1	2.41	0.50
4:D:180:ILE:HB	10:J:75:TYR:HE1	1.75	0.50
4:D:294:GLN:HB3	4:D:316:LEU:HD23	1.94	0.50
4:D:299:VAL:HG11	4:D:302:ILE:HD11	1.94	0.50
4:D:518:SER:HG	4:D:528:TRP:HZ3	0.66	0.50
5:E:261:HIS:HB3	5:E:289:MET:CE	2.41	0.50
5:E:285:ASP:CG	5:E:285:ASP:O	2.53	0.50
7:G:125:PHE:HZ	7:G:136:MET:CE	2.24	0.50
8:H:67:SER:HB2	9:I:78:ILE:HG21	1.89	0.50
12:L:73:GLU:HB3	13:M:66:ILE:CD1	2.23	0.50
12:L:84:CYS:HB3	13:M:56:ILE:HG12	1.87	0.50
15:O:31:PRO:CD	15:O:109:ASN:HD22	2.25	0.50
1:A:819:VAL:C	1:A:840:TYR:CE2	2.89	0.50
1:A:1433:LEU:CD2	1:A:1478:LEU:CD2	2.89	0.50
2:B:651:SER:CB	2:B:680:LEU:HD22	2.41	0.50
2:B:1458:PHE:HZ	2:B:1563:VAL:CG1	2.25	0.50
2:B:1468:ALA:O	2:B:1469:SER:CB	2.57	0.50
2:B:2189:GLY:HA2	20:B:5601:ATP:H5'2	1.93	0.50
2:B:3118:TYR:CZ	2:B:3452:LEU:HB2	2.46	0.50
2:B:3833:MET:HE1	2:B:3945:PHE:HZ	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2740:ILE:HG21	3:C:2744:LYS:HB2	0.54	0.50
4:D:386:TYR:CB	4:D:433:LEU:HD11	2.42	0.50
4:D:584:ILE:HD11	4:D:604:VAL:HG11	1.94	0.50
5:E:253:MET:CB	5:E:296:PHE:HE2	2.24	0.50
18:R:105:THR:C	18:R:107:SER:H	2.16	0.50
1:A:24:LYS:HA	1:A:96:LEU:O	2.12	0.50
1:A:819:VAL:HA	1:A:840:TYR:HE2	1.73	0.50
1:A:906:LEU:CB	1:A:998:VAL:HG11	2.37	0.50
1:A:1059:GLU:OE2	1:A:1093:LYS:HD3	2.12	0.50
1:A:1151:MET:HE1	4:D:176:ILE:HG12	1.94	0.50
1:A:1157:GLN:CB	1:A:1180:ARG:HH21	2.17	0.50
1:A:1522:GLU:N	1:A:1523:PRO:CD	2.74	0.50
1:A:3290:LEU:CD2	1:A:3335:TRP:CE2	2.59	0.50
2:B:444:LEU:HD21	2:B:526:ASN:CB	2.41	0.50
2:B:579:PHE:CZ	5:E:369:PRO:CG	2.85	0.50
2:B:2267:ILE:HD11	2:B:2308:LEU:HG	1.94	0.50
2:B:2621:ILE:HG22	2:B:2667:LEU:HD13	1.93	0.50
2:B:3150:VAL:HG22	2:B:3707:LEU:HD23	1.93	0.50
2:B:4287:LEU:C	2:B:4287:LEU:HD13	2.37	0.50
3:C:7:TRP:CH2	3:C:352:LEU:HD12	2.46	0.50
3:C:1270:PHE:CG	3:C:1336:ALA:HB2	2.46	0.50
3:C:2708:GLN:OE1	3:C:2813:ILE:HG13	2.09	0.50
3:C:2708:GLN:HG3	3:C:2809:ALA:HB1	1.93	0.50
3:C:2800:PRO:CG	3:C:2818:VAL:CG2	2.89	0.50
4:D:91:TYR:CE2	13:M:80:LEU:HB3	2.42	0.50
4:D:526:ARG:HB3	4:D:535:GLN:HG3	1.93	0.50
5:E:20:PHE:CE1	14:N:89:GLN:CA	2.80	0.50
10:J:38:GLU:HB2	15:O:29:PHE:CZ	2.47	0.50
13:M:20:VAL:HG22	13:M:45:PHE:HZ	1.76	0.50
1:A:331:THR:C	1:A:380:ARG:CB	2.84	0.50
1:A:601:PRO:CB	1:A:698:GLU:OE1	2.40	0.50
1:A:902:THR:HG21	1:A:989:ILE:CD1	2.42	0.50
1:A:1118:LEU:CD2	1:A:1118:LEU:H	2.25	0.50
1:A:1127:LYS:C	1:A:1208:TYR:OH	2.55	0.50
1:A:1680:ILE:HA	1:A:1683:TRP:CD1	2.47	0.50
1:A:3232:ILE:HG23	1:A:3316:TRP:CE3	2.31	0.50
2:B:436:PHE:HB2	2:B:463:PHE:CD2	2.46	0.50
2:B:915:PRO:O	2:B:925:THR:HG22	2.11	0.50
2:B:951:MET:HB2	2:B:952:PRO:HD3	1.92	0.50
2:B:1102:LEU:H	2:B:1163:ARG:NH2	1.96	0.50
2:B:1456:PHE:CE1	2:B:1563:VAL:HG11	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1602:LYS:HD2	2:B:1683:GLU:OE1	1.98	0.50
2:B:3118:TYR:CE2	2:B:3452:LEU:N	2.60	0.50
3:C:195:ASN:C	3:C:239:TRP:HZ2	2.09	0.50
3:C:1174:LEU:HD12	3:C:1191:ILE:HG22	1.92	0.50
3:C:2715:PRO:HG2	3:C:2719:VAL:HB	1.92	0.50
3:C:2727:ILE:HD11	3:C:2745:LYS:CD	2.14	0.50
9:I:81:GLU:OE2	9:I:102:ASN:CB	2.51	0.50
1:A:505:THR:O	1:A:509:LYS:CA	2.59	0.50
1:A:933:VAL:HG12	1:A:944:LEU:HB3	1.94	0.50
1:A:1016:PHE:CE2	1:A:1076:LEU:HB2	2.45	0.50
1:A:2298:LEU:HD21	20:A:4801:ATP:N7	2.26	0.50
1:A:2418:ILE:HG23	1:A:2428:VAL:HG22	1.93	0.50
1:A:3293:PHE:CZ	1:A:3335:TRP:CH2	2.87	0.50
2:B:658:GLN:HG3	2:B:672:ASN:O	2.07	0.50
2:B:864:ASN:HA	2:B:947:LEU:HD11	1.93	0.50
2:B:1461:TYR:HD2	2:B:1464:THR:O	1.95	0.50
2:B:1728:GLN:HE21	2:B:1868:ILE:HD12	1.75	0.50
3:C:164:HIS:CD2	3:C:201:GLY:HA3	2.47	0.50
3:C:2738:ILE:HG22	3:C:2746:PRO:HD3	0.70	0.50
4:D:75:LEU:CD1	15:O:102:LEU:CD1	2.88	0.50
4:D:512:HIS:HD2	4:D:513:PRO:CD	2.19	0.50
4:D:517:ILE:HG12	4:D:550:TRP:HZ2	1.64	0.50
6:F:26:PHE:CZ	6:F:48:ILE:HG23	2.47	0.50
14:N:89:GLN:NE2	14:N:116:ALA:N	2.51	0.50
1:A:326:PRO:CB	1:A:373:MET:HA	2.42	0.50
1:A:607:ILE:CD1	1:A:655:PHE:HD2	2.25	0.50
1:A:3306:LEU:HA	1:A:3309:TYR:CD2	2.46	0.50
1:A:3347:LYS:O	1:A:3351:PRO:CG	2.56	0.50
2:B:422:ARG:NH1	2:B:422:ARG:CB	2.73	0.50
2:B:467:VAL:C	2:B:471:THR:CB	2.70	0.50
2:B:722:TYR:CE2	2:B:748:VAL:HG11	2.47	0.50
2:B:888:PRO:HG2	2:B:978:TRP:CE3	2.47	0.50
3:C:276:PHE:CE2	3:C:282:ARG:HA	2.47	0.50
3:C:276:PHE:CZ	3:C:282:ARG:HA	2.47	0.50
3:C:2585:PHE:HD1	3:C:2929:LEU:HA	1.70	0.50
3:C:2709:ALA:N	3:C:2758:MET:SD	2.83	0.50
3:C:2730:LEU:CD1	3:C:2730:LEU:N	2.73	0.50
5:E:46:ASN:ND2	12:L:88:PHE:HE1	2.09	0.50
5:E:164:VAL:HG23	5:E:181:TYR:HE1	1.66	0.50
5:E:394:TRP:HE1	5:E:401:PRO:N	2.10	0.50
5:E:420:THR:CG2	5:E:472:SER:CB	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:43:THR:OG1	9:I:86:ASP:OD2	2.29	0.50
1:A:948:LEU:N	1:A:948:LEU:CD2	2.73	0.50
1:A:1066:VAL:HB	1:A:1069:TYR:OH	2.11	0.50
1:A:1273:PHE:C	1:A:1275:LEU:H	2.20	0.50
1:A:3255:GLU:HA	1:A:3271:GLU:CB	2.42	0.50
2:B:1467:PHE:CE2	2:B:1560:MET:HE1	2.47	0.50
2:B:3234:LEU:HD11	2:B:3336:LEU:HD21	1.94	0.50
3:C:1993:THR:HG22	3:C:2023:ILE:HD11	1.94	0.50
3:C:2796:PRO:CD	3:C:2796:PRO:O	2.59	0.50
4:D:114:ASP:OD1	5:E:43:ARG:HG3	2.12	0.50
4:D:215:ASP:O	4:D:216:HIS:CG	2.65	0.50
4:D:386:TYR:CD1	4:D:433:LEU:CD1	2.92	0.50
4:D:461:CYS:SG	4:D:462:PHE:N	2.84	0.50
5:E:64:GLU:OE2	10:J:18:TYR:OH	2.30	0.50
5:E:207:SER:HB2	5:E:208:PRO:HD2	1.93	0.50
5:E:280:VAL:HG11	5:E:333:PHE:HE2	1.77	0.50
7:G:119:PRO:CG	9:I:12:ILE:HB	2.41	0.50
14:N:75:GLN:HB2	15:O:94:GLY:O	2.12	0.50
1:A:688:PHE:CB	1:A:727:TYR:CE2	2.95	0.49
1:A:735:LYS:NZ	4:D:347:GLU:OE1	2.31	0.49
1:A:902:THR:HG21	1:A:989:ILE:HD11	1.94	0.49
1:A:1631:PHE:CD1	1:A:1631:PHE:N	2.80	0.49
1:A:3303:ILE:CD1	1:A:3340:TYR:CD2	2.95	0.49
2:B:17:ARG:CA	2:B:21:ALA:HB3	2.42	0.49
2:B:793:SER:OG	2:B:832:ASN:HB3	2.12	0.49
2:B:1111:LYS:HA	2:B:1114:LEU:HD12	1.94	0.49
3:C:35:MET:HE1	3:C:325:SER:OG	2.12	0.49
3:C:2705:ASP:OD2	3:C:2758:MET:HE2	2.12	0.49
3:C:3010:LEU:HA	3:C:3102:LEU:HB2	1.94	0.49
4:D:403:LYS:HB2	4:D:462:PHE:CZ	2.47	0.49
4:D:528:TRP:CG	4:D:535:GLN:HA	2.44	0.49
5:E:57:SER:O	10:J:90:HIS:CE1	2.65	0.49
5:E:59:HIS:HD2	10:J:90:HIS:HE1	1.50	0.49
5:E:66:VAL:HG11	8:H:72:GLU:CG	2.42	0.49
5:E:513:TYR:CZ	5:E:517:LYS:HD2	2.47	0.49
6:F:54:ASP:OD2	7:G:109:LYS:CE	2.60	0.49
7:G:103:ILE:N	7:G:104:PRO:HD2	2.27	0.49
1:A:805:ARG:HH22	5:E:152:LEU:HD12	1.76	0.49
1:A:868:LEU:CD1	1:A:868:LEU:H	2.25	0.49
1:A:1450:TRP:CH2	1:A:1519:THR:CG2	2.95	0.49
1:A:3230:LEU:H	1:A:3233:ILE:HG21	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3261:LYS:CG	1:A:3262:GLU:N	2.69	0.49
1:A:3572:MET:HE1	1:A:3594:VAL:HG22	1.93	0.49
2:B:436:PHE:CE2	2:B:463:PHE:CD1	2.97	0.49
2:B:467:VAL:HG12	2:B:471:THR:CB	2.35	0.49
2:B:793:SER:HB3	2:B:836:ILE:HD11	1.94	0.49
2:B:920:SER:HB3	2:B:925:THR:HG21	1.94	0.49
2:B:3157:LEU:HA	2:B:3160:LYS:HE2	1.94	0.49
2:B:3582:ILE:HG23	2:B:3582:ILE:O	2.11	0.49
2:B:3827:LEU:HD11	2:B:4289:LEU:HD13	1.94	0.49
3:C:834:VAL:CG2	3:C:881:ILE:HD11	2.41	0.49
3:C:2581:LEU:C	3:C:2581:LEU:CD2	2.85	0.49
3:C:3266:ILE:HD13	3:C:3388:ARG:NH1	2.27	0.49
4:D:372:VAL:HG11	4:D:414:PHE:CE2	2.47	0.49
4:D:417:ILE:HD12	4:D:474:VAL:CG2	2.35	0.49
4:D:620:LEU:HD12	4:D:620:LEU:C	2.31	0.49
5:E:44:ASN:HB3	5:E:45:PRO:HD3	1.93	0.49
5:E:64:GLU:OE2	10:J:18:TYR:CZ	2.65	0.49
7:G:79:VAL:HG21	7:G:146:ILE:CD1	2.42	0.49
7:G:79:VAL:HG21	7:G:146:ILE:HD12	1.92	0.49
10:J:62:GLU:HG3	11:K:69:TYR:CZ	2.47	0.49
12:L:16:LEU:HD11	12:L:35:ILE:CG2	2.42	0.49
13:M:10:THR:CG2	13:M:73:ILE:HG13	2.42	0.49
13:M:73:ILE:HG22	13:M:84:LEU:HD11	1.93	0.49
14:N:72:ILE:HG12	15:O:97:ILE:CB	2.38	0.49
15:O:41:LEU:HD23	15:O:67:LEU:HD12	1.94	0.49
15:O:45:ARG:CB	15:O:63:LEU:HD11	2.39	0.49
15:O:72:LYS:C	15:O:72:LYS:CD	2.85	0.49
1:A:21:LEU:O	1:A:25:ASP:C	2.55	0.49
1:A:747:ILE:CD1	1:A:889:TYR:CD1	2.93	0.49
1:A:1100:LEU:C	1:A:1100:LEU:CD2	2.85	0.49
1:A:1163:LEU:C	1:A:1163:LEU:CD2	2.85	0.49
1:A:1183:LEU:C	1:A:1183:LEU:CD2	2.86	0.49
1:A:2697:ARG:CG	19:A:4701:ADP:H4'	2.41	0.49
2:B:633:ILE:O	2:B:637:GLU:HG3	2.11	0.49
2:B:744:MET:SD	2:B:772:ILE:CD1	2.99	0.49
2:B:883:ASN:ND2	2:B:971:MET:SD	2.85	0.49
2:B:1488:LYS:CB	2:B:1501:VAL:HB	2.42	0.49
3:C:214:LEU:CD1	3:C:214:LEU:H	2.22	0.49
4:D:525:VAL:HG23	4:D:545:VAL:HG21	1.95	0.49
5:E:459:CYS:SG	5:E:460:ILE:N	2.86	0.49
10:J:68:MET:HB3	10:J:76:TRP:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:74:TRP:CE2	12:L:109:LYS:CD	2.81	0.49
12:L:84:CYS:HB3	13:M:56:ILE:CA	2.40	0.49
1:A:157:ALA:O	1:A:160:GLU:N	2.45	0.49
1:A:670:LEU:CD2	1:A:670:LEU:C	2.86	0.49
1:A:753:LEU:C	1:A:753:LEU:CD2	2.85	0.49
1:A:1012:LYS:CG	1:A:1071:ILE:HD12	2.41	0.49
1:A:1126:VAL:HG13	1:A:1132:LEU:N	2.23	0.49
1:A:1562:ILE:N	1:A:1563:PRO:CD	2.75	0.49
1:A:3271:GLU:CD	1:A:3272:SER:H	2.20	0.49
2:B:349:ASN:CB	2:B:416:LEU:HD11	2.41	0.49
2:B:439:LEU:HD12	2:B:503:LEU:HD11	1.93	0.49
2:B:642:LEU:C	2:B:642:LEU:CD1	2.86	0.49
2:B:658:GLN:HG2	2:B:673:PHE:HA	1.93	0.49
2:B:762:ILE:HG23	2:B:766:ILE:CG1	2.38	0.49
2:B:844:LEU:C	2:B:844:LEU:CD2	2.85	0.49
2:B:864:ASN:CA	2:B:947:LEU:CD2	2.78	0.49
2:B:1243:LYS:CA	2:B:1251:SER:N	2.76	0.49
2:B:3265:GLN:HG3	2:B:3283:PHE:HE2	1.78	0.49
3:C:2055:ILE:HG22	3:C:2059:LEU:HD11	1.94	0.49
3:C:2592:LYS:HD2	3:C:2928:VAL:HG23	1.91	0.49
3:C:2687:ALA:HB2	3:C:2830:VAL:HG21	1.95	0.49
3:C:2727:ILE:O	3:C:2730:LEU:HD12	2.02	0.49
3:C:4081:ALA:N	3:C:4094:ILE:O	2.44	0.49
3:C:4084:ILE:HD11	3:C:4106:PRO:HG3	1.94	0.49
4:D:199:ILE:HG21	9:I:104:ALA:HB1	1.86	0.49
4:D:205:PHE:CE1	9:I:12:ILE:HG22	2.47	0.49
4:D:286:ILE:HG22	4:D:287:TRP:CE3	2.46	0.49
4:D:503:VAL:HG11	4:D:506:VAL:HG23	1.93	0.49
5:E:113:LYS:CD	6:F:10:GLN:O	2.60	0.49
5:E:116:VAL:HG11	6:F:99:ALA:CB	2.41	0.49
5:E:237:ASN:HD22	5:E:237:ASN:N	2.10	0.49
10:J:28:TRP:HA	10:J:28:TRP:HE3	1.77	0.49
15:O:22:LEU:HD11	15:O:23:ASN:ND2	2.23	0.49
16:P:10:THR:CB	16:P:66:ILE:N	2.73	0.49
1:A:666:SER:HB2	1:A:695:LEU:HD13	1.94	0.49
1:A:755:HIS:CE1	1:A:869:TYR:HB3	2.47	0.49
1:A:819:VAL:N	1:A:840:TYR:CE2	2.80	0.49
1:A:1132:LEU:CA	1:A:1272:LEU:CD1	2.78	0.49
1:A:1274:GLY:CA	4:D:164:ASN:CG	2.81	0.49
1:A:1390:LYS:C	1:A:1392:ASN:H	2.21	0.49
2:B:598:ARG:CA	5:E:367:LEU:HD13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:859:TYR:C	2:B:859:TYR:CD1	2.90	0.49
2:B:1458:PHE:HZ	2:B:1563:VAL:CB	2.25	0.49
2:B:1498:TYR:C	2:B:1500:ARG:N	2.70	0.49
2:B:1731:LEU:HD11	2:B:1793:ILE:HG13	1.93	0.49
2:B:3231:VAL:HG22	2:B:3342:ASN:CB	2.41	0.49
19:B:5501:ADP:O2A	19:B:5501:ADP:H4'	2.13	0.49
3:C:346:LEU:HD22	3:C:346:LEU:C	2.37	0.49
4:D:68:GLU:HG2	5:E:12:LYS:CA	2.34	0.49
4:D:301:SER:HB3	4:D:352:CYS:HA	1.94	0.49
4:D:360:ALA:C	5:E:133:PHE:HZ	2.21	0.49
5:E:160:CYS:SG	5:E:161:LYS:N	2.85	0.49
8:H:50:ARG:HH22	9:I:88:THR:CG2	2.25	0.49
15:O:22:LEU:HD12	15:O:23:ASN:CB	2.41	0.49
1:A:7:SER:C	1:A:9:ARG:N	2.70	0.49
1:A:121:GLY:N	2:B:105:ALA:O	2.46	0.49
1:A:751:LEU:CD2	1:A:751:LEU:C	2.86	0.49
1:A:3255:GLU:HA	1:A:3271:GLU:HB2	1.93	0.49
2:B:361:LYS:HA	2:B:477:ILE:CG2	2.42	0.49
2:B:729:LEU:CD1	2:B:780:VAL:HG22	2.40	0.49
2:B:965:ILE:N	2:B:965:ILE:HD12	2.26	0.49
2:B:2839:ILE:N	2:B:2840:PRO:HD2	2.28	0.49
2:B:3131:ARG:C	2:B:3131:ARG:CD	2.85	0.49
3:C:3161:PHE:HB3	3:C:3203:ILE:HD11	1.94	0.49
4:D:96:PHE:CZ	10:J:89:VAL:HG21	2.48	0.49
4:D:517:ILE:HG13	4:D:550:TRP:CE2	2.41	0.49
8:H:83:GLN:HA	8:H:83:GLN:OE1	2.12	0.49
11:K:21:MET:HG2	11:K:54:TYR:CE2	2.47	0.49
1:A:695:LEU:HD23	1:A:695:LEU:O	2.13	0.49
1:A:859:VAL:HG11	1:A:887:LYS:HG2	1.95	0.49
1:A:899:LEU:CD2	1:A:989:ILE:HG12	2.42	0.49
1:A:1162:LEU:C	1:A:1162:LEU:CD2	2.86	0.49
1:A:1623:ILE:HG22	1:A:1623:ILE:O	2.11	0.49
1:A:3120:GLY:HA2	1:A:3696:LEU:CD1	2.41	0.49
1:A:3564:LYS:CG	1:A:3615:MET:HE1	2.43	0.49
2:B:500:GLU:CB	2:B:532:THR:HG21	2.42	0.49
2:B:801:ILE:HG13	2:B:878:ALA:CA	2.42	0.49
2:B:1521:VAL:HG22	2:B:1585:SER:CB	2.43	0.49
2:B:1599:LEU:HD22	2:B:1617:LEU:HD21	1.94	0.49
2:B:4216:MET:HA	2:B:4220:LEU:HD12	1.94	0.49
4:D:532:TYR:CZ	4:D:652:MET:CE	2.95	0.49
5:E:46:ASN:O	12:L:88:PHE:CE2	2.63	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:119:CYS:HB3	6:F:88:ILE:CD1	2.15	0.49
6:F:32:PRO:CB	6:F:45:ALA:HB1	2.42	0.49
9:I:85:TYR:CD1	9:I:85:TYR:C	2.90	0.49
10:J:110:THR:HG21	11:K:92:LYS:HG3	1.93	0.49
12:L:49:LEU:HD22	12:L:49:LEU:H	1.77	0.49
12:L:49:LEU:CD2	12:L:49:LEU:H	2.24	0.49
1:A:818:LEU:CB	1:A:844:LYS:HG3	2.41	0.49
1:A:1028:LYS:HG2	1:A:1029:GLU:N	2.28	0.49
1:A:1458:MET:HE1	1:A:1548:TRP:HD1	1.69	0.49
1:A:1610:LEU:HD12	1:A:1610:LEU:O	2.13	0.49
1:A:1926:PHE:CB	1:A:1974:ILE:HG23	2.41	0.49
1:A:3018:LEU:O	1:A:3022:CYS:SG	2.71	0.49
1:A:3448:SER:HB3	1:A:3477:MET:HE1	1.93	0.49
2:B:444:LEU:O	5:E:515:LYS:CG	2.53	0.49
2:B:511:PHE:CE2	2:B:547:LEU:HD23	2.47	0.49
2:B:956:LEU:O	2:B:959:ILE:HG13	2.13	0.49
2:B:1185:ASP:HB2	2:B:1186:PRO:HD2	1.94	0.49
2:B:2862:LEU:HD13	2:B:2864:LEU:HG	1.94	0.49
2:B:3077:SER:OG	2:B:3486:ILE:HD11	2.12	0.49
2:B:3272:PRO:HG2	2:B:3275:LYS:CG	2.43	0.49
3:C:29:VAL:CG2	3:C:92:ALA:HA	2.43	0.49
3:C:29:VAL:CG2	3:C:92:ALA:C	2.85	0.49
3:C:1864:ILE:HD11	3:C:1910:ILE:CG2	2.43	0.49
3:C:2096:ILE:HD11	3:C:2141:TYR:CD2	2.48	0.49
3:C:2903:LEU:C	3:C:2903:LEU:CD2	2.86	0.49
4:D:414:PHE:HD2	4:D:426:TRP:CG	2.21	0.49
5:E:20:PHE:HE2	15:O:80:LYS:HD2	1.68	0.49
5:E:402:ILE:HD11	5:E:513:TYR:HB2	1.95	0.49
1:A:666:SER:HB3	1:A:695:LEU:HD12	1.95	0.49
2:B:521:PHE:HE2	2:B:609:LEU:HD21	1.78	0.49
2:B:669:ILE:O	2:B:719:VAL:CG1	2.59	0.49
2:B:969:LEU:C	2:B:969:LEU:CD2	2.86	0.49
2:B:1139:LEU:C	2:B:1139:LEU:CD1	2.86	0.49
2:B:2085:GLN:CG	2:B:2176:VAL:HG21	2.43	0.49
2:B:3121:LEU:C	2:B:3121:LEU:CD1	2.85	0.49
3:C:250:LYS:HG3	3:C:273:VAL:HG13	1.94	0.49
3:C:2676:GLN:O	3:C:2837:LEU:CB	2.61	0.49
3:C:2711:SER:HB2	3:C:2755:LEU:CD2	2.40	0.49
3:C:4138:PHE:CE1	3:C:4141:THR:HA	2.47	0.49
4:D:196:CYS:SG	9:I:86:ASP:HA	2.52	0.49
4:D:298:ASN:HB3	4:D:591:THR:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:429:MET:HE3	4:D:434:GLU:CD	2.38	0.49
4:D:466:LYS:HZ1	4:D:511:PHE:H	1.61	0.49
4:D:553:TYR:CE1	4:D:595:PHE:CE2	3.00	0.49
5:E:100:GLU:HA	5:E:105:PHE:CD2	2.47	0.49
5:E:112:LEU:HD23	5:E:116:VAL:CG2	2.42	0.49
5:E:325:ASN:HB2	5:E:375:ARG:HD2	1.95	0.49
6:F:80:ARG:N	7:G:125:PHE:O	2.42	0.49
8:H:67:SER:HB3	9:I:78:ILE:CG2	2.40	0.49
12:L:55:LEU:C	12:L:55:LEU:CD2	2.86	0.49
12:L:70:GLY:O	12:L:109:LYS:CE	2.60	0.49
13:M:32:LYS:HD2	13:M:32:LYS:N	2.28	0.49
1:A:683:LYS:NZ	1:A:741:ASN:HD22	2.11	0.49
1:A:937:LEU:HD12	1:A:1081:ILE:HD11	1.93	0.49
1:A:1171:ILE:HG13	1:A:1171:ILE:O	2.12	0.49
1:A:1390:LYS:C	1:A:1392:ASN:N	2.70	0.49
1:A:3251:ILE:CG1	17:Q:62:ILE:N	2.74	0.49
2:B:429:LEU:HD21	2:B:493:ARG:HD2	1.95	0.49
2:B:658:GLN:NE2	2:B:672:ASN:O	2.45	0.49
2:B:1492:LYS:NZ	2:B:3606:GLN:CG	2.76	0.49
2:B:3311:ASN:O	2:B:3315:GLN:HG3	2.13	0.49
3:C:114:LEU:HB2	3:C:121:TRP:CD2	2.48	0.49
3:C:341:TRP:HB2	3:C:345:TRP:CD1	2.48	0.49
3:C:1101:PHE:HB3	3:C:1107:MET:HE2	1.95	0.49
3:C:2743:ASN:OD1	3:C:2786:ASN:OD1	2.30	0.49
3:C:2751:TRP:O	3:C:2754:SER:HB3	2.12	0.49
3:C:2899:LEU:C	3:C:2899:LEU:CD2	2.86	0.49
4:D:100:GLU:OE2	4:D:100:GLU:HA	2.13	0.49
9:I:85:TYR:OH	9:I:106:LEU:HD13	2.12	0.49
10:J:38:GLU:HG3	15:O:29:PHE:CZ	2.45	0.49
11:K:53:LYS:HG2	11:K:54:TYR:CE1	2.47	0.49
14:N:75:GLN:CG	15:O:93:GLN:HG3	2.39	0.49
16:P:39:TRP:C	16:P:40:SER:C	2.81	0.49
1:A:674:LEU:HD23	1:A:770:LEU:CB	2.43	0.48
1:A:1009:THR:OG1	1:A:1074:MET:SD	2.69	0.48
1:A:1534:MET:HB3	1:A:1537:GLN:CG	2.43	0.48
1:A:1613:ILE:HD11	1:A:1626:ASP:HB3	1.93	0.48
1:A:1790:HIS:NE2	1:A:1794:ILE:HD11	2.28	0.48
1:A:2117:GLU:HG2	1:A:2141:ILE:HD11	1.95	0.48
1:A:3251:ILE:HD11	17:Q:62:ILE:O	2.13	0.48
2:B:1051:ASP:OD2	2:B:1162:THR:CG2	2.60	0.48
2:B:1606:PHE:CE1	2:B:1687:LEU:HA	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1627:ALA:HB3	2:B:1628:PRO:HD3	1.94	0.48
3:C:180:LEU:CD2	3:C:187:TRP:CE3	2.93	0.48
3:C:334:ARG:HG3	3:C:336:ILE:HD11	1.95	0.48
3:C:442:ILE:O	3:C:443:THR:C	2.49	0.48
3:C:884:ARG:HA	3:C:889:ILE:HD11	1.95	0.48
3:C:2531:LEU:HB3	3:C:2536:LEU:HD11	1.95	0.48
4:D:508:TRP:HZ3	4:D:514:ARG:HA	1.78	0.48
5:E:76:LYS:O	8:H:64:ASN:OD1	2.30	0.48
5:E:271:LEU:N	5:E:271:LEU:CD1	2.76	0.48
9:I:19:MET:CB	9:I:22:LYS:HE3	2.43	0.48
9:I:74:THR:HG23	9:I:74:THR:O	2.11	0.48
12:L:55:LEU:HA	13:M:64:HIS:CE1	2.48	0.48
14:N:22:LYS:HE2	14:N:28:LYS:CB	2.43	0.48
1:A:801:ILE:HG21	1:A:862:LEU:HD23	1.81	0.48
1:A:891:PHE:CZ	1:A:971:ASN:OD1	2.66	0.48
1:A:1504:VAL:CG2	1:A:1565:CYS:CB	2.72	0.48
1:A:3187:ILE:HG22	1:A:3191:LYS:HD3	1.93	0.48
1:A:3500:ILE:HD12	1:A:3515:ILE:HG23	1.95	0.48
2:B:86:LYS:HA	2:B:104:VAL:O	2.13	0.48
2:B:798:ASN:HB2	2:B:874:ALA:CA	2.43	0.48
2:B:3770:MET:HA	2:B:4089:LEU:HD13	1.95	0.48
2:B:3984:PHE:CE2	2:B:4076:LEU:HD11	2.49	0.48
3:C:124:PRO:HB3	3:C:185:PHE:CD1	2.48	0.48
3:C:1503:ILE:HD12	3:C:1523:PHE:CZ	2.48	0.48
3:C:2007:LEU:HD11	3:C:2128:MET:HE3	1.94	0.48
3:C:2899:LEU:HD23	3:C:2899:LEU:O	2.13	0.48
4:D:241:PHE:HZ	7:G:78:ILE:CD1	2.16	0.48
4:D:564:ASP:CG	4:D:583:LYS:CE	2.76	0.48
5:E:308:GLU:OE1	5:E:343:LEU:HD11	2.13	0.48
7:G:77:LEU:C	7:G:77:LEU:CD2	2.86	0.48
1:A:1126:VAL:CG1	1:A:1131:SER:OG	2.61	0.48
1:A:2697:ARG:HG2	19:A:4701:ADP:O3'	2.13	0.48
1:A:3249:ILE:HG13	1:A:3273:TYR:N	2.29	0.48
2:B:467:VAL:CB	2:B:471:THR:OG1	2.59	0.48
2:B:835:GLN:O	2:B:839:LEU:HG	2.13	0.48
2:B:1529:TYR:CZ	2:B:1533:LEU:HD12	2.48	0.48
3:C:231:ILE:HG12	3:C:240:VAL:O	2.13	0.48
3:C:1567:LEU:HD22	3:C:1619:ASP:HB3	1.94	0.48
4:D:91:TYR:CE1	13:M:80:LEU:CD1	2.94	0.48
4:D:251:MET:CB	7:G:136:MET:HE2	2.21	0.48
7:G:77:LEU:HB2	7:G:90:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:75:TYR:CB	11:K:92:LYS:HE2	2.36	0.48
11:K:34:GLU:OE2	11:K:34:GLU:HA	2.12	0.48
12:L:9:GLY:O	12:L:13:GLU:CD	2.56	0.48
1:A:695:LEU:C	1:A:695:LEU:CD2	2.85	0.48
1:A:818:LEU:C	1:A:840:TYR:CE2	2.89	0.48
1:A:909:MET:O	1:A:913:VAL:HG23	2.13	0.48
1:A:1638:THR:OG1	1:A:1655:GLN:HG3	2.11	0.48
1:A:3425:GLU:OE2	1:A:3425:GLU:HA	2.14	0.48
2:B:429:LEU:HD22	2:B:492:PHE:CE2	2.48	0.48
2:B:443:GLU:CD	5:E:514:ARG:HH11	2.11	0.48
2:B:552:LYS:CG	2:B:622:VAL:HG22	2.43	0.48
2:B:1490:GLN:HB3	2:B:3612:ASP:HB3	1.95	0.48
2:B:2333:PRO:HB3	20:B:5601:ATP:HN62	1.79	0.48
3:C:113:ILE:HD11	3:C:185:PHE:CZ	2.47	0.48
3:C:2365:GLY:O	3:C:2367:GLN:N	2.46	0.48
3:C:2726:THR:C	3:C:2729:LEU:HG	2.37	0.48
3:C:2730:LEU:HD22	3:C:2743:ASN:H	1.77	0.48
3:C:2984:TRP:HB3	3:C:2989:LEU:HD23	1.95	0.48
4:D:66:LEU:HD21	4:D:73:LYS:HG2	1.96	0.48
4:D:195:ILE:HD12	9:I:94:LEU:HD23	1.95	0.48
4:D:248:MET:CE	7:G:147:VAL:HG21	2.42	0.48
5:E:46:ASN:CA	12:L:88:PHE:CE1	2.96	0.48
5:E:60:SER:HB3	10:J:87:GLN:CB	2.43	0.48
5:E:306:ILE:CG2	5:E:343:LEU:HD12	2.43	0.48
5:E:398:LEU:HD21	5:E:516:GLU:HB3	1.95	0.48
8:H:12:LYS:HE2	8:H:80:TYR:OH	2.13	0.48
12:L:74:TRP:HA	12:L:109:LYS:HG2	1.96	0.48
15:O:31:PRO:HD3	15:O:109:ASN:ND2	2.26	0.48
15:O:46:LEU:HD23	15:O:115:TYR:CE2	2.48	0.48
16:P:15:SER:CA	16:P:16:GLU:N	2.71	0.48
1:A:666:SER:HB3	1:A:695:LEU:CD1	2.43	0.48
1:A:688:PHE:CG	1:A:727:TYR:CD2	3.01	0.48
1:A:889:TYR:HE2	7:G:12:SER:CB	2.27	0.48
1:A:948:LEU:CB	1:A:1010:LYS:HD3	2.43	0.48
1:A:1062:ILE:HG21	1:A:1086:SER:OG	2.13	0.48
1:A:1617:GLY:HA2	1:A:1623:ILE:HD11	1.84	0.48
2:B:1532:PHE:CE1	2:B:1539:ARG:HB2	2.49	0.48
3:C:109:ASN:HB3	3:C:145:PRO:HG3	1.95	0.48
3:C:2357:LEU:C	3:C:2357:LEU:HD13	2.38	0.48
3:C:2701:ILE:HG13	3:C:2704:LYS:CG	2.43	0.48
4:D:68:GLU:CG	5:E:12:LYS:C	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:543:MET:SD	4:D:563:MET:HB2	2.51	0.48
5:E:100:GLU:CA	5:E:105:PHE:CD2	2.86	0.48
5:E:334:LEU:HD12	5:E:344:THR:HG22	1.94	0.48
5:E:355:ILE:N	5:E:355:ILE:CD1	2.73	0.48
5:E:361:LEU:C	5:E:361:LEU:CD1	2.85	0.48
7:G:111:ARG:NH2	7:G:139:PRO:HB2	2.29	0.48
8:H:60:ILE:CG2	9:I:85:TYR:HB3	2.44	0.48
9:I:20:ILE:O	9:I:99:TYR:CZ	2.67	0.48
9:I:24:ILE:HG23	9:I:98:PHE:HD1	1.77	0.48
12:L:69:ILE:HD12	12:L:92:VAL:HG13	1.95	0.48
14:N:17:ILE:HG23	14:N:110:VAL:HG11	1.96	0.48
1:A:576:TYR:CE1	1:A:620:PRO:CA	2.96	0.48
1:A:939:GLY:O	1:A:940:ASP:CB	2.59	0.48
1:A:2298:LEU:CD2	20:A:4801:ATP:N7	2.77	0.48
1:A:3249:ILE:HG12	1:A:3273:TYR:CB	2.43	0.48
2:B:690:LEU:C	2:B:690:LEU:CD1	2.85	0.48
2:B:927:ARG:HH12	2:B:976:LEU:HB2	1.77	0.48
2:B:3125:LYS:NZ	2:B:3447:MET:SD	2.83	0.48
2:B:3445:LYS:O	2:B:3487:PRO:O	2.32	0.48
2:B:4353:ILE:HG22	2:B:4425:LEU:HD13	1.96	0.48
3:C:352:LEU:H	3:C:352:LEU:CD1	2.27	0.48
3:C:2589:LEU:CA	3:C:2928:VAL:HG11	2.44	0.48
3:C:2787:ILE:HD13	3:C:2824:TYR:CB	2.44	0.48
4:D:92:TYR:CB	13:M:29:LYS:HA	2.42	0.48
4:D:636:MET:HA	4:D:636:MET:CE	2.40	0.48
5:E:221:ILE:HG13	5:E:221:ILE:O	2.12	0.48
10:J:79:PHE:CZ	11:K:88:LEU:HD23	2.48	0.48
16:P:23:TYR:C	16:P:96:GLY:HA2	2.38	0.48
1:A:573:LEU:CG	1:A:633:GLU:HG2	2.29	0.48
1:A:909:MET:HE3	1:A:955:ILE:HD11	1.86	0.48
1:A:1031:ILE:CA	1:A:1092:TRP:CH2	2.95	0.48
1:A:1190:LEU:C	1:A:1190:LEU:CD2	2.85	0.48
1:A:1449:ILE:HG13	1:A:1452:LYS:NZ	2.28	0.48
1:A:1825:ILE:HD12	1:A:1889:LEU:HA	1.95	0.48
2:B:675:PRO:O	5:E:187:GLN:NE2	2.47	0.48
2:B:714:ALA:HB1	2:B:766:ILE:CD1	2.44	0.48
2:B:861:ASP:CB	3:C:170:GLN:CB	2.83	0.48
2:B:902:ILE:CG2	2:B:1076:LEU:CD1	2.90	0.48
2:B:1230:MET:CE	2:B:1266:VAL:C	2.86	0.48
2:B:2128:ASP:HB3	2:B:4466:LEU:HB2	1.96	0.48
2:B:3342:ASN:O	2:B:3346:PHE:CA	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3445:LYS:CG	2:B:3487:PRO:CB	2.91	0.48
4:D:134:LYS:HB2	4:D:134:LYS:HZ3	1.78	0.48
4:D:386:TYR:CE1	5:E:142:VAL:HG11	2.47	0.48
5:E:386:VAL:HG21	5:E:415:GLY:HA3	1.95	0.48
9:I:49:ASN:ND2	9:I:59:ALA:HA	2.28	0.48
16:P:39:TRP:C	16:P:40:SER:CB	2.86	0.48
1:A:2120:ILE:HB	1:A:2121:PRO:HD3	1.95	0.48
1:A:3191:LYS:HZ2	1:A:3191:LYS:CB	2.26	0.48
1:A:3255:GLU:CB	1:A:3271:GLU:HB2	2.44	0.48
2:B:523:LEU:C	2:B:523:LEU:CD2	2.85	0.48
2:B:527:PHE:CD2	2:B:530:LEU:HD23	2.48	0.48
2:B:599:ILE:HG22	2:B:626:TYR:CE1	2.49	0.48
2:B:638:ASP:O	2:B:642:LEU:CB	2.62	0.48
2:B:1057:LEU:CD1	2:B:1098:TYR:CD2	2.97	0.48
2:B:1795:VAL:HG23	2:B:2041:MET:HE1	1.96	0.48
2:B:3089:ILE:HG22	2:B:3106:THR:HG21	1.96	0.48
3:C:294:LEU:C	3:C:294:LEU:CD2	2.86	0.48
3:C:3012:ILE:HD12	3:C:3121:LEU:HD11	1.96	0.48
4:D:195:ILE:N	9:I:87:VAL:O	2.31	0.48
4:D:576:LEU:C	4:D:576:LEU:CD1	2.85	0.48
5:E:61:VAL:CG2	10:J:106:LEU:CD1	2.86	0.48
5:E:279:CYS:SG	5:E:291:TRP:HB2	2.53	0.48
8:H:36:ASN:N	8:H:36:ASN:HD22	2.10	0.48
15:O:46:LEU:HD23	15:O:115:TYR:CD2	2.48	0.48
18:R:105:THR:C	18:R:107:SER:N	2.70	0.48
1:A:800:ASP:O	1:A:804:ASN:HB2	2.14	0.48
1:A:891:PHE:CD1	1:A:972:TRP:CD2	2.90	0.48
1:A:971:ASN:HB3	1:A:983:ALA:CB	2.43	0.48
1:A:1016:PHE:HD2	1:A:1069:TYR:CD1	2.30	0.48
1:A:1091:GLU:OE1	1:A:1091:GLU:HA	2.14	0.48
1:A:1273:PHE:HB3	1:A:1275:LEU:HG	1.95	0.48
1:A:1441:ASN:HA	1:A:1562:ILE:CD1	2.44	0.48
1:A:1458:MET:SD	1:A:1549:MET:HA	2.54	0.48
1:A:1606:SER:HB2	1:A:1608:PRO:HD2	1.96	0.48
1:A:2515:MET:HA	1:A:2553:LYS:O	2.13	0.48
1:A:2696:MET:CE	19:A:4701:ADP:C8	2.97	0.48
1:A:3251:ILE:CD1	17:Q:82:ASN:HA	2.40	0.48
1:A:3260:LYS:NZ	1:A:3267:LEU:CD2	2.77	0.48
1:A:3709:ASP:CB	1:A:3712:LEU:HD12	2.43	0.48
2:B:581:ASN:HD22	5:E:184:MET:CE	2.22	0.48
2:B:696:THR:HG22	2:B:697:THR:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:729:LEU:HD13	2:B:780:VAL:CG2	2.43	0.48
2:B:1116:PHE:N	2:B:1119:LYS:HZ2	2.09	0.48
2:B:1139:LEU:CD2	2:B:1198:ILE:HD11	2.40	0.48
2:B:1566:ASN:CB	3:C:2275:LYS:HE3	2.39	0.48
2:B:2267:ILE:CD1	2:B:2311:ALA:HB2	2.44	0.48
2:B:3147:GLN:NE2	2:B:3427:ALA:HB2	2.29	0.48
3:C:114:LEU:C	3:C:114:LEU:CD1	2.85	0.48
3:C:354:VAL:HG22	3:C:357:ILE:HG13	1.94	0.48
3:C:2726:THR:HG21	3:C:2757:LEU:HD13	1.96	0.48
3:C:2743:ASN:ND2	3:C:2785:VAL:C	2.72	0.48
3:C:2799:THR:HB	3:C:2800:PRO:CD	2.44	0.48
4:D:92:TYR:CE1	13:M:29:LYS:HD3	2.49	0.48
4:D:117:TRP:CE3	4:D:118:LYS:O	2.67	0.48
4:D:294:GLN:NE2	4:D:328:LEU:HD13	2.29	0.48
4:D:410:LYS:HE3	4:D:413:ASN:HD21	1.79	0.48
5:E:289:MET:SD	5:E:300:PRO:HG3	2.53	0.48
12:L:74:TRP:CD1	12:L:109:LYS:CD	2.93	0.48
1:A:819:VAL:HA	1:A:840:TYR:CE2	2.49	0.48
1:A:952:GLN:NE2	1:A:1010:LYS:NZ	2.62	0.48
1:A:1048:TYR:HE1	1:A:1100:LEU:HB2	1.79	0.48
1:A:1273:PHE:C	1:A:1275:LEU:N	2.72	0.48
1:A:1445:PHE:HE2	1:A:1564:CYS:HB3	0.72	0.48
1:A:3220:ILE:HG21	1:A:3286:PHE:CD2	2.49	0.48
2:B:17:ARG:HA	2:B:21:ALA:HB3	1.96	0.48
2:B:225:PRO:HA	2:B:298:LEU:CB	2.44	0.48
2:B:459:ILE:HG23	2:B:499:LEU:HD12	1.96	0.48
2:B:775:GLN:O	2:B:779:THR:HG23	2.13	0.48
2:B:899:LEU:HD11	2:B:900:PHE:CD1	2.39	0.48
2:B:1456:PHE:CE1	2:B:1467:PHE:CZ	3.02	0.48
2:B:4104:LYS:HA	2:B:4256:LEU:HD13	1.95	0.48
3:C:2093:GLN:HB2	3:C:2096:ILE:HG22	1.95	0.48
6:F:47:HIS:O	6:F:51:LEU:HD13	2.13	0.48
1:A:1012:LYS:CE	1:A:1071:ILE:CB	2.42	0.47
1:A:1935:SER:HB2	1:A:4048:LEU:HD13	1.96	0.47
1:A:3043:ILE:HD11	1:A:3059:LEU:HD23	1.95	0.47
2:B:14:ILE:O	2:B:22:LEU:HA	2.13	0.47
2:B:412:LEU:CD1	2:B:412:LEU:C	2.86	0.47
2:B:744:MET:HE1	2:B:772:ILE:HG13	1.93	0.47
2:B:902:ILE:HG13	2:B:1076:LEU:HB2	1.48	0.47
2:B:2586:LYS:HA	2:B:2592:TYR:HD2	1.79	0.47
2:B:3453:LEU:CD2	2:B:3492:ILE:CD1	2.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:106:LEU:N	3:C:106:LEU:CD1	2.73	0.47
3:C:2670:LYS:HB3	3:C:2848:THR:CG2	2.44	0.47
4:D:204:ILE:HG21	9:I:101:GLY:O	2.14	0.47
4:D:355:PHE:HE1	4:D:377:ILE:HD11	1.79	0.47
4:D:372:VAL:CG1	4:D:414:PHE:CE2	2.97	0.47
4:D:483:LYS:NZ	4:D:530:SER:HB3	2.28	0.47
4:D:528:TRP:HD1	4:D:535:GLN:N	2.05	0.47
4:D:620:LEU:O	4:D:620:LEU:CD1	2.48	0.47
5:E:44:ASN:N	5:E:45:PRO:CD	2.77	0.47
5:E:131:GLU:HB2	5:E:134:GLU:HB2	1.95	0.47
8:H:39:LYS:HA	9:I:84:ALA:HB1	1.96	0.47
12:L:50:GLU:OE2	13:M:61:PHE:HA	2.14	0.47
16:P:24:ASN:HA	16:P:96:GLY:N	2.29	0.47
16:P:27:ASN:CA	16:P:95:GLU:HA	2.44	0.47
1:A:686:VAL:CG2	1:A:731:LEU:HD21	2.37	0.47
1:A:736:GLU:O	1:A:740:ILE:HG13	2.14	0.47
1:A:755:HIS:HE1	1:A:869:TYR:CB	2.27	0.47
1:A:1274:GLY:HA3	4:D:164:ASN:HA	1.94	0.47
1:A:1599:PHE:HE2	1:A:1630:LEU:HD22	1.80	0.47
1:A:1830:TRP:CZ2	1:A:1832:SER:HB2	2.49	0.47
1:A:3220:ILE:CG2	1:A:3286:PHE:CD2	2.97	0.47
2:B:581:ASN:HD21	5:E:184:MET:HE1	1.78	0.47
2:B:613:ILE:O	2:B:616:ARG:HG3	2.14	0.47
2:B:3140:LEU:HD23	2:B:3140:LEU:O	2.12	0.47
2:B:3173:ILE:CG2	2:B:3177:LYS:HE3	2.44	0.47
3:C:10:LEU:HD11	3:C:67:CYS:HB3	1.95	0.47
3:C:146:ARG:HG3	3:C:149:HIS:ND1	2.29	0.47
3:C:149:HIS:HA	3:C:162:GLY:HA3	1.95	0.47
3:C:261:ILE:CB	3:C:360:PRO:HB3	2.40	0.47
3:C:352:LEU:HD13	3:C:352:LEU:H	1.79	0.47
3:C:972:LEU:HD21	3:C:1017:MET:HE1	1.94	0.47
3:C:2701:ILE:HD13	3:C:2704:LYS:CE	2.35	0.47
4:D:162:LEU:C	4:D:162:LEU:CD2	2.85	0.47
4:D:163:ARG:HH11	12:L:73:GLU:CD	2.23	0.47
4:D:240:SER:OG	7:G:140:ASP:OD2	2.29	0.47
4:D:386:TYR:HE1	5:E:142:VAL:HG12	1.79	0.47
4:D:517:ILE:HD13	4:D:527:ILE:HA	1.95	0.47
9:I:26:ASN:HD22	9:I:98:PHE:HE2	1.63	0.47
10:J:40:ALA:HB1	10:J:107:MET:HE1	1.96	0.47
11:K:46:ILE:CD1	11:K:87:ILE:HD13	2.45	0.47
17:Q:108:GLU:HA	17:Q:129:ILE:H	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:ARG:NE	4:D:319:TYR:CZ	2.82	0.47
1:A:888:ARG:CZ	7:G:5:THR:CB	2.92	0.47
1:A:1052:LEU:HD12	1:A:1162:LEU:HD21	1.96	0.47
1:A:1088:TRP:CD2	1:A:1092:TRP:NE1	2.77	0.47
1:A:1183:LEU:HD23	1:A:1183:LEU:O	2.14	0.47
1:A:1393:TYR:O	1:A:1397:ASP:N	2.46	0.47
1:A:1548:TRP:CD1	1:A:1548:TRP:C	2.92	0.47
1:A:1914:LEU:HD21	1:A:1921:GLY:HA3	1.97	0.47
1:A:1915:VAL:HA	1:A:1970:VAL:HG21	1.96	0.47
1:A:2498:ALA:HB2	19:A:4701:ADP:H8	1.79	0.47
1:A:3257:VAL:CG1	1:A:3266:VAL:HG22	2.43	0.47
2:B:555:LEU:HD23	2:B:625:LEU:HD13	1.97	0.47
2:B:917:ILE:HG22	2:B:917:ILE:O	2.13	0.47
2:B:1498:TYR:C	2:B:1500:ARG:H	2.21	0.47
2:B:1611:PHE:CE1	2:B:1925:PHE:HZ	2.32	0.47
2:B:2619:SER:N	2:B:2620:PRO:HD2	2.29	0.47
2:B:3140:LEU:C	2:B:3140:LEU:CD2	2.86	0.47
2:B:4447:PRO:HB2	2:B:4558:VAL:HG11	1.96	0.47
3:C:997:LEU:HB2	3:C:1051:GLN:HE22	1.79	0.47
3:C:2745:LYS:HD2	3:C:2749:VAL:CG1	2.43	0.47
3:C:2770:ASN:O	3:C:2774:VAL:HG23	2.13	0.47
3:C:2772:LYS:C	3:C:2772:LYS:CD	2.86	0.47
3:C:2798:PHE:HD1	3:C:2803:MET:SD	2.31	0.47
4:D:251:MET:HB3	7:G:136:MET:HE1	0.54	0.47
4:D:374:VAL:HB	4:D:386:TYR:HB2	1.96	0.47
5:E:183:ILE:HG12	5:E:193:MET:HE1	1.96	0.47
6:F:61:LYS:CD	8:H:33:ASP:O	2.62	0.47
9:I:75:TRP:CE3	9:I:109:LYS:HB2	2.49	0.47
1:A:603:GLU:HG3	1:A:662:LYS:HE3	1.97	0.47
1:A:1012:LYS:HZ1	1:A:1072:GLY:H	0.47	0.47
1:A:1433:LEU:HD11	1:A:1490:PHE:HE1	1.68	0.47
1:A:3290:LEU:CD2	1:A:3335:TRP:HZ2	1.96	0.47
2:B:444:LEU:C	5:E:515:LYS:CB	2.87	0.47
2:B:533:ARG:O	2:B:537:ALA:HB2	2.13	0.47
2:B:1058:LYS:HD3	2:B:1166:GLU:O	2.05	0.47
2:B:1480:HIS:O	2:B:1484:LEU:CB	2.63	0.47
2:B:3402:LYS:C	2:B:3402:LYS:CD	2.86	0.47
3:C:89:ALA:CB	3:C:95:MET:HG2	2.44	0.47
3:C:196:PRO:CB	3:C:239:TRP:CH2	2.96	0.47
3:C:246:HIS:HE1	3:C:292:PHE:CD2	2.32	0.47
3:C:700:LEU:CB	3:C:717:CYS:CB	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2820:ILE:HG23	3:C:2824:TYR:HD2	1.80	0.47
3:C:3966:LEU:HD23	3:C:3976:PRO:HB3	1.97	0.47
4:D:172:GLU:OE2	12:L:55:LEU:HB2	2.14	0.47
4:D:261:TYR:HE1	5:E:126:ILE:CD1	1.94	0.47
4:D:395:HIS:CD2	4:D:399:VAL:HG13	2.45	0.47
4:D:398:PRO:CD	4:D:398:PRO:O	2.59	0.47
4:D:556:THR:HB	4:D:571:LEU:CG	2.44	0.47
5:E:112:LEU:CD2	5:E:112:LEU:C	2.85	0.47
5:E:198:TYR:HB3	5:E:208:PRO:CB	2.43	0.47
5:E:276:GLY:HA3	5:E:294:ARG:HH11	1.79	0.47
15:O:22:LEU:HD12	15:O:22:LEU:C	2.39	0.47
1:A:577:ALA:CB	1:A:636:ARG:CD	2.60	0.47
1:A:607:ILE:HD13	1:A:655:PHE:HB2	1.95	0.47
1:A:617:ILE:HG22	1:A:644:LEU:HD11	1.96	0.47
1:A:1277:ASN:HB3	1:A:1280:TYR:CB	2.44	0.47
1:A:2033:LEU:CD2	1:A:4498:LEU:HD23	2.44	0.47
1:A:2489:ALA:O	1:A:2608:ILE:HA	2.13	0.47
1:A:3125:GLN:NE2	1:A:3125:GLN:C	2.73	0.47
2:B:544:HIS:CE1	2:B:609:LEU:CG	2.95	0.47
2:B:724:HIS:ND1	2:B:728:CYS:SG	2.87	0.47
2:B:726:LYS:C	2:B:726:LYS:CD	2.85	0.47
2:B:1427:VAL:O	2:B:1431:VAL:HG23	2.14	0.47
2:B:2395:PRO:HG2	2:B:2665:LEU:HD21	1.97	0.47
2:B:3164:VAL:HG12	2:B:3409:ALA:CB	2.42	0.47
2:B:3230:ALA:HB3	2:B:3342:ASN:OD1	2.07	0.47
3:C:2617:VAL:CG2	3:C:3183:ILE:CD1	2.87	0.47
3:C:2779:GLN:O	3:C:2780:VAL:HG23	2.13	0.47
3:C:3622:ILE:HD11	3:C:3624:LEU:HD21	1.96	0.47
3:C:4129:TYR:O	3:C:4164:LEU:HA	2.14	0.47
4:D:294:GLN:NE2	4:D:294:GLN:CA	2.73	0.47
4:D:361:ALA:HB2	5:E:133:PHE:CE2	2.49	0.47
4:D:553:TYR:OH	4:D:620:LEU:CD1	2.62	0.47
5:E:198:TYR:HB2	5:E:200:TRP:CZ3	2.49	0.47
5:E:376:SER:HB3	5:E:417:TRP:CE3	2.49	0.47
8:H:52:ARG:CA	18:R:63:ASN:HA	2.45	0.47
12:L:16:LEU:HD21	12:L:19:HIS:CE1	2.50	0.47
1:A:770:LEU:HD11	1:A:780:TYR:CG	2.50	0.47
1:A:907:ASN:C	1:A:911:TYR:HD2	2.23	0.47
1:A:1016:PHE:HD2	1:A:1020:PHE:CE2	2.33	0.47
1:A:1121:LYS:HD2	1:A:1138:THR:HG22	1.96	0.47
1:A:2298:LEU:HD11	20:A:4801:ATP:C5	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3249:ILE:CD1	1:A:3273:TYR:CA	2.71	0.47
1:A:3280:THR:HG22	1:A:3286:PHE:HD1	1.79	0.47
2:B:53:ILE:CB	2:B:90:ALA:CB	2.89	0.47
2:B:492:PHE:CE2	2:B:496:ILE:HD11	2.50	0.47
2:B:601:GLU:N	2:B:602:PRO:CD	2.77	0.47
2:B:899:LEU:CD1	2:B:900:PHE:H	2.21	0.47
2:B:947:LEU:HD22	2:B:947:LEU:N	2.29	0.47
2:B:1708:ALA:HA	2:B:1711:TRP:CD1	2.49	0.47
2:B:3257:ARG:CG	2:B:3276:VAL:HG11	2.45	0.47
2:B:3402:LYS:HD3	2:B:3402:LYS:O	2.15	0.47
3:C:2690:LEU:CB	3:C:2826:VAL:CB	2.92	0.47
4:D:109:PHE:CD1	15:O:114:THR:OG1	2.67	0.47
4:D:162:LEU:HD23	4:D:162:LEU:O	2.14	0.47
4:D:509:ASN:HD21	4:D:512:HIS:HB3	1.80	0.47
4:D:517:ILE:HD11	4:D:550:TRP:HZ2	1.74	0.47
4:D:584:ILE:HG21	4:D:614:VAL:HG23	1.86	0.47
5:E:84:VAL:CG1	5:E:91:GLU:HB3	2.44	0.47
5:E:129:LEU:CD1	6:F:80:ARG:NE	2.77	0.47
7:G:86:VAL:HG21	7:G:143:PHE:CE1	2.49	0.47
8:H:24:VAL:HG22	8:H:49:PHE:HZ	1.79	0.47
10:J:37:LEU:HA	10:J:96:ILE:HD13	1.97	0.47
1:A:598:ARG:HH22	4:D:546:VAL:HG12	1.70	0.47
1:A:686:VAL:HG23	1:A:731:LEU:CD2	2.27	0.47
1:A:894:PHE:CD1	1:A:972:TRP:HH2	2.33	0.47
1:A:1041:ASN:CA	1:A:1047:ASN:HD21	2.25	0.47
1:A:1139:LEU:HB3	1:A:1143:ARG:HH22	1.79	0.47
1:A:1140:GLU:OE2	4:D:165:LYS:HG2	2.13	0.47
1:A:3446:ASN:CA	1:A:3488:LEU:HD21	2.39	0.47
1:A:3896:LEU:N	1:A:3897:PRO:HD2	2.29	0.47
2:B:581:ASN:HD22	5:E:184:MET:HE3	1.72	0.47
2:B:709:ARG:CZ	5:E:262:TYR:CD2	2.81	0.47
2:B:749:LYS:HB2	2:B:750:PRO:HD3	1.95	0.47
2:B:1123:GLY:CA	2:B:1197:PHE:CE1	2.83	0.47
2:B:1205:PHE:HZ	2:B:1284:LEU:O	1.96	0.47
2:B:1316:ALA:HB1	16:P:62:LYS:CB	2.45	0.47
2:B:2516:HIS:HE2	2:B:2676:MET:HA	1.80	0.47
2:B:3150:VAL:HG22	2:B:3707:LEU:HD21	1.96	0.47
2:B:3150:VAL:HG11	2:B:3423:VAL:HG23	1.84	0.47
2:B:3242:MET:HA	2:B:3245:LEU:HD12	1.96	0.47
3:C:1864:ILE:HA	3:C:1868:CYS:HB3	1.97	0.47
3:C:1983:THR:HA	19:C:4702:ADP:N6	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2666:CYS:SG	3:C:2667:GLY:N	2.87	0.47
3:C:2676:GLN:CB	3:C:2837:LEU:CA	2.93	0.47
3:C:2720:PRO:CB	3:C:2798:PHE:CD2	2.83	0.47
3:C:2730:LEU:HD22	3:C:2743:ASN:N	2.29	0.47
4:D:116:ILE:HG13	5:E:43:ARG:HD3	1.96	0.47
4:D:199:ILE:HD11	9:I:98:PHE:CD2	2.49	0.47
4:D:245:CYS:SG	7:G:145:LEU:HD12	2.55	0.47
4:D:367:LEU:HD11	4:D:371:THR:HG23	1.95	0.47
4:D:512:HIS:CD2	4:D:513:PRO:HD3	2.48	0.47
5:E:24:GLU:OE2	14:N:91:THR:HB	2.14	0.47
5:E:82:GLY:CA	8:H:12:LYS:HZ1	2.28	0.47
5:E:95:PHE:HE1	6:F:31:ILE:HD13	1.79	0.47
5:E:385:SER:HG	5:E:394:TRP:HZ3	0.72	0.47
8:H:16:MET:HE1	8:H:24:VAL:HG21	1.96	0.47
10:J:48:LEU:HD13	10:J:100:ILE:CD1	2.33	0.47
1:A:590:GLN:C	1:A:609:TRP:CH2	2.92	0.47
1:A:604:ALA:HB2	1:A:698:GLU:CD	2.40	0.47
1:A:880:PRO:O	1:A:883:THR:OG1	2.32	0.47
1:A:1013:VAL:HG22	1:A:1076:LEU:HD21	1.96	0.47
1:A:2336:PHE:HZ	1:A:2411:LEU:CD2	2.27	0.47
1:A:2363:LEU:HD23	1:A:2390:SER:HA	1.97	0.47
1:A:3508:LEU:HB2	1:A:3540:TRP:CD1	2.50	0.47
1:A:3762:ILE:O	1:A:3765:SER:OG	2.29	0.47
2:B:426:ILE:HG21	2:B:478:MET:SD	2.54	0.47
2:B:605:LYS:O	2:B:608:GLN:HB2	2.15	0.47
2:B:1316:ALA:O	16:P:60:PHE:O	2.29	0.47
2:B:1454:GLN:C	2:B:1455:VAL:HG23	2.40	0.47
2:B:3977:ALA:HB2	2:B:4093:ILE:HD12	1.97	0.47
3:C:24:HIS:CD2	3:C:325:SER:HB3	2.49	0.47
3:C:912:SER:HA	3:C:966:LEU:HD22	1.97	0.47
3:C:1890:LEU:HB3	3:C:1901:LEU:HD21	1.96	0.47
3:C:2800:PRO:CA	3:C:2814:CYS:HB3	2.38	0.47
4:D:529:ASP:HB3	4:D:532:TYR:HD2	1.79	0.47
5:E:74:SER:CB	9:I:56:ILE:HB	2.44	0.47
10:J:74:PRO:CG	12:L:102:ARG:CD	2.60	0.47
1:A:603:GLU:CG	1:A:662:LYS:HE3	2.44	0.47
1:A:1599:PHE:CE2	1:A:1601:ARG:HB2	2.50	0.47
1:A:2840:VAL:HG11	1:A:3041:THR:HG21	1.97	0.47
1:A:3297:SER:HB3	1:A:3299:ASN:OD1	2.14	0.47
2:B:729:LEU:HD23	2:B:734:GLU:CG	2.33	0.47
2:B:2333:PRO:HB3	20:B:5601:ATP:C6	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2685:LYS:HA	2:B:2711:VAL:HG11	1.96	0.47
2:B:3928:LEU:HD13	2:B:3928:LEU:C	2.40	0.47
2:B:4440:MET:HB2	2:B:4443:ARG:CG	2.45	0.47
3:C:165:GLY:HA3	3:C:174:PHE:HE2	1.72	0.47
3:C:2703:LYS:H	3:C:2703:LYS:CD	2.27	0.47
5:E:20:PHE:HE1	14:N:89:GLN:HA	1.68	0.47
5:E:291:TRP:CE2	5:E:300:PRO:HB3	2.50	0.47
6:F:66:ASP:O	7:G:98:ASN:HB3	2.15	0.47
10:J:42:ARG:HA	10:J:42:ARG:HD2	1.71	0.47
13:M:3:HIS:CE1	13:M:78:ASN:HB3	2.50	0.47
15:O:41:LEU:HD23	15:O:67:LEU:CD1	2.45	0.47
1:A:56:TYR:C	1:A:58:GLN:H	2.23	0.47
1:A:306:LYS:O	1:A:310:ALA:HB3	2.15	0.47
1:A:871:LEU:CD2	1:A:872:ASP:O	2.63	0.47
1:A:1458:MET:SD	1:A:1552:MET:CG	3.03	0.47
1:A:1676:CYS:HG	1:A:1683:TRP:CG	2.33	0.47
1:A:3233:ILE:HD12	1:A:3329:ALA:HB2	1.95	0.47
2:B:436:PHE:CB	2:B:463:PHE:CD2	2.97	0.47
2:B:725:ILE:HD12	2:B:780:VAL:HG21	1.97	0.47
2:B:902:ILE:HB	2:B:1076:LEU:HG	1.76	0.47
2:B:938:PHE:HB3	2:B:956:LEU:HD13	1.97	0.47
2:B:951:MET:N	2:B:952:PRO:CD	2.78	0.47
2:B:1454:GLN:HB3	2:B:1473:MET:CE	2.45	0.47
2:B:1456:PHE:CZ	2:B:1569:VAL:HG12	2.50	0.47
2:B:3316:ASP:OD1	2:B:3317:PRO:HD2	2.15	0.47
2:B:3321:PHE:O	2:B:3321:PHE:CG	2.68	0.47
2:B:4315:LYS:HA	2:B:4367:LEU:HD11	1.96	0.47
2:B:4435:ILE:HD12	2:B:4436:PRO:HD2	1.97	0.47
2:B:4466:LEU:HD13	2:B:4466:LEU:C	2.40	0.47
3:C:2589:LEU:HB2	3:C:2928:VAL:CG1	2.34	0.47
3:C:2820:ILE:HG23	3:C:2824:TYR:CD2	2.50	0.47
4:D:422:ARG:NH2	4:D:424:MET:SD	2.86	0.47
4:D:584:ILE:HD12	4:D:585:VAL:H	1.80	0.47
5:E:395:VAL:HG12	5:E:396:GLU:N	2.30	0.47
5:E:491:CYS:O	5:E:495:TYR:CD2	2.68	0.47
6:F:54:ASP:OD2	7:G:109:LYS:HE2	2.15	0.47
6:F:82:LYS:N	7:G:124:VAL:HG23	2.30	0.47
16:P:24:ASN:CA	16:P:96:GLY:HA3	2.45	0.47
1:A:761:LEU:CD2	1:A:874:HIS:HE1	2.22	0.46
1:A:1127:LYS:O	1:A:1208:TYR:CE1	2.67	0.46
1:A:2567:VAL:HG22	1:A:2573:GLN:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3226:ASN:ND2	1:A:3233:ILE:HD13	2.30	0.46
1:A:4477:MET:HG3	1:A:4524:VAL:HG23	1.96	0.46
2:B:984:ASN:C	2:B:987:ARG:HG2	2.40	0.46
2:B:1061:GLN:HG2	2:B:1091:VAL:CG1	2.45	0.46
2:B:1230:MET:CE	2:B:1267:TYR:HA	2.36	0.46
2:B:1395:LEU:CB	2:B:1430:ILE:HG21	2.46	0.46
2:B:3833:MET:HE2	2:B:3840:VAL:HG21	1.97	0.46
3:C:1221:THR:O	3:C:1225:THR:HG23	2.14	0.46
3:C:2403:TYR:CE1	3:C:2480:VAL:HG11	2.50	0.46
3:C:3381:SER:N	3:C:3382:PRO:HD2	2.29	0.46
4:D:313:ALA:CB	4:D:331:LEU:HG	2.45	0.46
4:D:567:GLN:CG	4:D:578:LYS:CD	2.87	0.46
5:E:377:ASN:N	5:E:377:ASN:ND2	2.60	0.46
5:E:492:ASP:HB3	5:E:495:TYR:OH	2.15	0.46
6:F:19:GLY:O	6:F:102:LEU:N	2.48	0.46
6:F:26:PHE:CD1	6:F:49:ALA:CA	2.97	0.46
6:F:62:VAL:HG11	7:G:106:LEU:HD21	1.95	0.46
8:H:10:VAL:CG1	8:H:80:TYR:OH	2.63	0.46
13:M:23:ILE:HG22	13:M:41:ILE:HD13	1.96	0.46
15:O:64:VAL:HG13	15:O:85:VAL:HG23	1.98	0.46
1:A:59:VAL:C	1:A:100:ASN:O	2.58	0.46
1:A:655:PHE:CE2	1:A:659:TRP:CD1	3.01	0.46
1:A:935:VAL:HA	1:A:944:LEU:HD23	1.97	0.46
1:A:1009:THR:HB	1:A:1074:MET:CG	2.42	0.46
1:A:1458:MET:HE1	1:A:1548:TRP:NE1	2.29	0.46
1:A:1637:VAL:HG11	1:A:1653:ILE:HD13	1.96	0.46
1:A:2348:MET:HE3	1:A:2400:GLU:HG3	1.97	0.46
1:A:3106:LYS:CD	1:A:3443:LEU:CD1	2.93	0.46
1:A:3538:GLN:O	1:A:3541:ILE:HG22	2.16	0.46
1:A:3748:ARG:HB3	1:A:3749:PRO:HD3	1.97	0.46
2:B:60:ASN:CA	2:B:81:ILE:CA	2.58	0.46
2:B:902:ILE:HG21	2:B:1076:LEU:CD1	2.42	0.46
2:B:946:ARG:HG3	2:B:953:GLY:HA3	1.96	0.46
2:B:1522:GLN:O	2:B:1526:LYS:N	2.42	0.46
2:B:3239:VAL:HG13	2:B:3291:ILE:HD11	1.96	0.46
2:B:3264:ASN:HA	2:B:3306:ILE:HD11	1.98	0.46
3:C:113:ILE:HD11	3:C:124:PRO:HG3	1.96	0.46
3:C:2738:ILE:CB	3:C:2746:PRO:CG	2.85	0.46
3:C:2740:ILE:HD12	3:C:2744:LYS:CD	2.33	0.46
3:C:2775:VAL:HG21	3:C:2824:TYR:CE2	2.50	0.46
4:D:265:ARG:CG	5:E:125:GLN:CG	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:170:HIS:CD2	5:E:172:GLU:HB3	2.51	0.46
10:J:19:LYS:HB3	10:J:28:TRP:HA	1.96	0.46
14:N:72:ILE:CG1	15:O:97:ILE:CG2	2.71	0.46
1:A:759:LEU:HD21	1:A:788:LEU:HD21	1.97	0.46
1:A:805:ARG:NH1	5:E:152:LEU:HD11	2.27	0.46
1:A:1045:LEU:C	1:A:1045:LEU:CD1	2.86	0.46
1:A:2298:LEU:CD2	20:A:4801:ATP:C8	2.98	0.46
1:A:2463:THR:HG23	19:A:4701:ADP:N6	2.30	0.46
2:B:3092:ALA:HB1	2:B:3472:LEU:HD11	1.96	0.46
2:B:4189:ILE:CG2	2:B:4194:MET:HE2	2.45	0.46
3:C:154:PHE:HD1	3:C:207:MET:HE2	1.79	0.46
3:C:217:PHE:HE1	3:C:246:HIS:HB2	1.78	0.46
3:C:1382:THR:HA	3:C:1385:ILE:HG22	1.97	0.46
3:C:3497:GLU:HG3	3:C:3861:ILE:HD11	1.97	0.46
4:D:75:LEU:CD2	4:D:75:LEU:N	2.73	0.46
4:D:426:TRP:CE3	4:D:435:PRO:HB3	2.48	0.46
4:D:529:ASP:CB	4:D:532:TYR:HD2	2.28	0.46
10:J:32:CYS:N	10:J:95:PHE:O	2.49	0.46
12:L:82:PHE:HA	13:M:58:GLY:HA2	1.97	0.46
15:O:64:VAL:HG13	15:O:85:VAL:CG2	2.46	0.46
18:R:120:GLU:O	18:R:124:THR:CB	2.63	0.46
1:A:1143:ARG:CD	4:D:171:ARG:HE	2.27	0.46
1:A:1274:GLY:HA2	4:D:165:LYS:H	1.81	0.46
1:A:1620:PRO:HB2	1:A:1639:PHE:CE1	2.50	0.46
1:A:2871:SER:N	19:A:4901:ADP:O2B	2.48	0.46
1:A:3715:VAL:HA	1:A:3718:ASN:HB3	1.97	0.46
1:A:4461:LEU:HD21	1:A:4516:ILE:HG21	1.97	0.46
2:B:422:ARG:CB	2:B:422:ARG:HH11	2.28	0.46
2:B:436:PHE:CD1	2:B:499:LEU:CD2	2.51	0.46
2:B:551:TYR:CD2	2:B:622:VAL:HG11	2.34	0.46
2:B:599:ILE:HG22	2:B:626:TYR:CD1	2.51	0.46
2:B:642:LEU:HD13	2:B:642:LEU:O	2.16	0.46
2:B:811:PRO:HA	2:B:900:PHE:HE2	1.80	0.46
2:B:814:TYR:O	2:B:818:LEU:CB	2.63	0.46
2:B:919:GLU:N	2:B:927:ARG:HD2	2.30	0.46
2:B:1532:PHE:CE1	2:B:1546:THR:HB	2.51	0.46
2:B:1819:SER:HA	2:B:1857:VAL:HG13	1.98	0.46
2:B:3457:PHE:CE1	2:B:3498:LEU:HD11	2.49	0.46
3:C:172:LEU:HD12	3:C:173:ALA:O	2.14	0.46
3:C:346:LEU:O	3:C:346:LEU:HD13	2.15	0.46
3:C:2079:ILE:HD12	3:C:2124:VAL:CG1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2621:GLU:OE2	3:C:2900:VAL:HG23	2.14	0.46
3:C:2740:ILE:HG21	3:C:2744:LYS:CD	2.45	0.46
3:C:3757:LEU:HD23	3:C:3757:LEU:C	2.41	0.46
4:D:183:ARG:HD2	11:K:72:TYR:OH	2.16	0.46
4:D:514:ARG:O	4:D:514:ARG:HG3	2.15	0.46
5:E:75:HIS:N	8:H:65:PHE:O	2.33	0.46
7:G:120:THR:H	9:I:12:ILE:HG21	1.81	0.46
8:H:24:VAL:HG22	8:H:49:PHE:CZ	2.51	0.46
12:L:72:GLY:O	12:L:109:LYS:CE	2.63	0.46
1:A:617:ILE:CD1	1:A:647:GLN:NE2	2.63	0.46
1:A:634:ILE:HG23	1:A:638:TYR:CE1	2.50	0.46
1:A:674:LEU:HD13	1:A:674:LEU:C	2.41	0.46
1:A:688:PHE:HD2	1:A:772:TRP:CH2	2.33	0.46
1:A:814:SER:HB3	1:A:900:ASN:HD22	1.80	0.46
2:B:984:ASN:O	2:B:987:ARG:CG	2.63	0.46
2:B:1235:SER:O	2:B:1239:GLU:HG3	2.15	0.46
2:B:2781:ASP:HB3	2:B:3046:ASP:HA	1.98	0.46
2:B:3074:ILE:HG23	2:B:3486:ILE:HD12	1.97	0.46
2:B:3136:TYR:HE1	2:B:3436:ASN:ND2	2.05	0.46
2:B:3525:ILE:HD11	2:B:3544:TRP:HH2	1.80	0.46
2:B:3863:LEU:HD22	2:B:3863:LEU:N	2.31	0.46
2:B:4220:LEU:O	2:B:4220:LEU:HD23	2.15	0.46
3:C:2564:LEU:HD13	3:C:2564:LEU:C	2.40	0.46
3:C:2617:VAL:HG22	3:C:3183:ILE:CD1	2.37	0.46
4:D:141:MET:CB	4:D:158:ILE:HD13	2.45	0.46
4:D:163:ARG:NH1	12:L:73:GLU:HG2	2.30	0.46
4:D:201:GLN:OE1	9:I:81:GLU:OE2	2.34	0.46
4:D:351:MET:CA	4:D:351:MET:CE	2.85	0.46
4:D:537:ILE:HD13	4:D:647:TYR:OH	2.14	0.46
5:E:164:VAL:HG21	5:E:485:VAL:HG23	1.97	0.46
5:E:259:ASN:CG	5:E:299:GLY:HA3	2.28	0.46
6:F:84:SER:OG	6:F:106:ALA:CB	2.63	0.46
8:H:60:ILE:HD13	9:I:78:ILE:CD1	2.45	0.46
13:M:20:VAL:HG22	13:M:45:PHE:CZ	2.49	0.46
13:M:77:ILE:CG2	13:M:80:LEU:HB3	2.46	0.46
1:A:737:TYR:HD1	1:A:759:LEU:HD21	1.81	0.46
1:A:791:LEU:HG	1:A:795:ILE:HD12	1.97	0.46
1:A:808:ASN:O	1:A:812:THR:HG23	2.16	0.46
1:A:837:GLN:NE2	1:A:958:ALA:HA	2.30	0.46
1:A:2727:LEU:HD22	1:A:2772:GLU:HG2	1.97	0.46
1:A:3069:MET:HE2	1:A:3472:ARG:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3124:ILE:CD1	1:A:3425:GLU:CG	2.92	0.46
1:A:3257:VAL:HG22	1:A:3266:VAL:HG12	1.90	0.46
2:B:729:LEU:HB3	2:B:734:GLU:OE2	2.16	0.46
2:B:886:ILE:HD11	2:B:976:LEU:HD21	1.96	0.46
2:B:1507:LYS:CG	2:B:1571:GLU:OE1	2.64	0.46
2:B:1521:VAL:CG2	2:B:1585:SER:HB3	2.45	0.46
2:B:1566:ASN:CB	3:C:2275:LYS:HE2	2.40	0.46
3:C:90:ILE:HD11	3:C:96:LEU:CD2	2.46	0.46
3:C:1188:LEU:HD21	3:C:1218:VAL:HG22	1.97	0.46
4:D:301:SER:CB	4:D:352:CYS:HA	2.46	0.46
5:E:16:ASN:N	5:E:17:PRO:HD3	2.31	0.46
6:F:54:ASP:OD1	7:G:109:LYS:HE2	2.15	0.46
1:A:841:ILE:HD12	1:A:961:ALA:HB1	1.93	0.46
1:A:1448:GLY:C	1:A:1459:LEU:HD22	2.41	0.46
1:A:2870:GLY:H	19:A:4901:ADP:PB	2.39	0.46
1:A:3232:ILE:CG2	1:A:3316:TRP:CE3	2.87	0.46
2:B:559:GLN:HB2	2:B:629:ILE:CD1	2.45	0.46
2:B:584:PRO:CD	5:E:186:PHE:HD2	2.27	0.46
2:B:733:GLU:CG	2:B:783:MET:HG2	2.45	0.46
2:B:2885:ASN:HB2	2:B:3043:THR:HG22	1.98	0.46
2:B:4076:LEU:C	2:B:4076:LEU:HD12	2.40	0.46
3:C:1658:ASP:O	20:C:4201:ATP:N6	2.49	0.46
3:C:2721:GLU:HG3	3:C:2813:ILE:HG22	1.98	0.46
3:C:2931:ALA:HB1	3:C:2975:LEU:HD21	1.97	0.46
4:D:174:GLN:C	13:M:61:PHE:O	2.56	0.46
4:D:292:GLU:CD	4:D:292:GLU:N	2.73	0.46
4:D:379:ASN:OD1	5:E:138:SER:OG	2.31	0.46
4:D:465:ASN:HB2	4:D:508:TRP:CE2	2.51	0.46
4:D:477:GLU:HA	4:D:502:ALA:CB	2.45	0.46
5:E:150:LEU:CD1	5:E:475:LEU:HD22	2.46	0.46
10:J:76:TRP:CE2	10:J:109:GLN:HB2	2.51	0.46
11:K:21:MET:HE2	11:K:54:TYR:CG	2.50	0.46
14:N:89:GLN:HE22	14:N:116:ALA:N	2.03	0.46
1:A:61:GLU:CB	1:A:98:ILE:O	2.64	0.46
1:A:402:PRO:C	1:A:467:ILE:O	2.59	0.46
1:A:598:ARG:CZ	4:D:546:VAL:HG12	2.44	0.46
1:A:3237:MET:O	1:A:3241:LEU:HG	2.16	0.46
2:B:87:LYS:C	2:B:103:ASN:HA	2.38	0.46
2:B:804:ARG:CZ	2:B:896:ILE:CG2	2.93	0.46
2:B:888:PRO:O	2:B:891:ILE:HG23	2.15	0.46
2:B:2577:GLN:OE1	2:B:2636:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2893:GLY:HA3	2:B:3109:LYS:HB2	1.97	0.46
2:B:4451:LEU:HD11	2:B:4559:PHE:CD1	2.51	0.46
3:C:267:PHE:CD1	3:C:293:VAL:HG22	2.50	0.46
3:C:2119:ILE:HG21	3:C:2122:THR:CG2	2.46	0.46
3:C:3151:LYS:CE	3:C:3217:ILE:HD11	2.46	0.46
3:C:3806:LYS:O	3:C:3810:ARG:HG3	2.15	0.46
4:D:239:THR:HA	4:D:242:LYS:HD3	1.96	0.46
4:D:573:VAL:CG2	4:D:579:LEU:HD21	2.46	0.46
5:E:27:TYR:H	5:E:27:TYR:HD1	1.61	0.46
5:E:110:LYS:HG3	6:F:10:GLN:OE1	2.15	0.46
5:E:120:ILE:HG23	6:F:101:GLN:OE1	2.15	0.46
5:E:437:TRP:CZ2	5:E:446:ILE:HG13	2.51	0.46
7:G:77:LEU:HB2	7:G:90:PHE:HE2	1.80	0.46
10:J:52:GLU:N	10:J:52:GLU:CD	2.73	0.46
12:L:49:LEU:N	12:L:49:LEU:CD2	2.79	0.46
1:A:935:VAL:HA	1:A:944:LEU:CD2	2.46	0.46
1:A:1133:GLY:CA	1:A:1268:ARG:C	2.54	0.46
1:A:1550:LYS:HB3	1:A:1554:LYS:HZ1	1.81	0.46
1:A:3230:LEU:CA	1:A:3233:ILE:HG22	2.46	0.46
2:B:511:PHE:CE2	2:B:543:LYS:HG3	2.50	0.46
2:B:533:ARG:NE	2:B:534:PRO:HD3	2.31	0.46
2:B:804:ARG:CZ	2:B:896:ILE:HG22	2.45	0.46
2:B:954:ASP:OD2	3:C:282:ARG:CD	2.62	0.46
2:B:1603:LYS:HB3	2:B:1610:TYR:CZ	2.50	0.46
2:B:3121:LEU:HD13	2:B:3121:LEU:O	2.14	0.46
2:B:3243:LYS:HD2	2:B:3284:MET:O	2.15	0.46
2:B:3267:ILE:O	2:B:3267:ILE:HG22	2.16	0.46
2:B:4152:ASN:HD21	2:B:4553:ARG:NH2	2.13	0.46
3:C:1612:ILE:N	3:C:1613:PRO:HD2	2.31	0.46
4:D:145:GLU:HA	4:D:151:ALA:HB3	1.97	0.46
4:D:183:ARG:HB3	11:K:72:TYR:HE2	1.79	0.46
4:D:635:ALA:HB1	4:D:639:PHE:HB3	1.98	0.46
5:E:74:SER:OG	9:I:56:ILE:HB	2.16	0.46
15:O:34:ILE:HD11	15:O:76:VAL:HG21	1.98	0.46
15:O:91:LYS:NZ	15:O:91:LYS:CB	2.76	0.46
1:A:751:LEU:CD2	1:A:866:ILE:CD1	2.92	0.46
1:A:1270:GLU:CB	1:A:1277:ASN:CG	2.89	0.46
1:A:1458:MET:CE	1:A:1548:TRP:NE1	2.79	0.46
1:A:1613:ILE:HD11	1:A:1626:ASP:HB2	1.96	0.46
2:B:4:HIS:C	2:B:6:GLN:H	2.22	0.46
2:B:865:VAL:CG2	3:C:169:TYR:HB3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1076:LEU:HD23	2:B:1076:LEU:H	1.79	0.46
2:B:1511:VAL:CA	2:B:1570:VAL:HG13	2.34	0.46
2:B:2333:PRO:HB3	20:B:5601:ATP:N6	2.30	0.46
2:B:3320:LYS:HB3	2:B:3325:ASP:HB2	1.98	0.46
2:B:3388:VAL:CG1	2:B:3392:LYS:HE3	2.46	0.46
2:B:3446:SER:HB2	2:B:3489:THR:HG23	0.54	0.46
2:B:3791:VAL:O	2:B:3796:ARG:NH1	2.49	0.46
2:B:4041:LEU:CB	2:B:4044:ILE:HD11	2.46	0.46
2:B:4228:PRO:HB2	2:B:4229:TYR:CD2	2.51	0.46
2:B:4548:TYR:CD2	2:B:4553:ARG:HD2	2.52	0.46
3:C:1383:ASP:O	3:C:1387:VAL:HG23	2.16	0.46
3:C:1887:LEU:HD21	3:C:1902:PHE:HD1	1.81	0.46
3:C:2585:PHE:HE1	3:C:2929:LEU:N	2.11	0.46
4:D:353:LEU:C	4:D:353:LEU:CD2	2.85	0.46
5:E:430:ARG:O	5:E:430:ARG:HG2	2.16	0.46
6:F:85:TYR:HB3	6:F:87:TYR:CE1	2.51	0.46
7:G:137:VAL:HG22	7:G:146:ILE:HG23	1.98	0.46
11:K:33:VAL:HG22	11:K:42:ILE:HG13	1.97	0.46
12:L:73:GLU:HG3	13:M:66:ILE:HG21	1.98	0.46
14:N:8:TYR:HE1	14:N:13:VAL:HG21	1.77	0.46
15:O:72:LYS:HD3	15:O:72:LYS:O	2.16	0.46
16:P:61:GLU:C	16:P:63:ARG:N	2.73	0.46
1:A:614:PHE:CD1	1:A:644:LEU:HD23	2.46	0.45
1:A:674:LEU:C	1:A:674:LEU:CD1	2.89	0.45
1:A:801:ILE:CG2	1:A:862:LEU:HG	2.44	0.45
1:A:853:VAL:CB	5:E:206:ASN:OD1	2.56	0.45
1:A:1637:VAL:HG11	1:A:1653:ILE:CG2	2.44	0.45
1:A:2866:VAL:HG11	1:A:3026:TRP:CZ3	2.50	0.45
1:A:3855:ALA:HB2	1:A:4413:ALA:HB2	1.98	0.45
2:B:477:ILE:O	2:B:477:ILE:CG2	2.62	0.45
2:B:887:ASN:HA	2:B:888:PRO:HD3	1.87	0.45
2:B:962:PHE:CB	2:B:965:ILE:HD13	2.45	0.45
2:B:2494:TRP:CD1	2:B:2519:ARG:HB3	2.51	0.45
2:B:3103:TYR:CD2	2:B:3632:HIS:CD2	3.05	0.45
2:B:3514:ALA:HB3	2:B:3659:ALA:CB	2.46	0.45
2:B:4130:LEU:C	2:B:4130:LEU:HD23	2.41	0.45
3:C:216:ILE:O	3:C:216:ILE:HG13	2.16	0.45
3:C:1718:VAL:HG21	3:C:1737:LEU:HD21	1.97	0.45
3:C:2204:ILE:HB	3:C:3956:ALA:HB1	1.97	0.45
3:C:2726:THR:O	3:C:2729:LEU:CB	2.63	0.45
3:C:2742:LYS:CE	3:C:2785:VAL:CG2	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:584:ILE:HD11	4:D:590:LEU:HD21	1.98	0.45
5:E:394:TRP:HD1	5:E:400:THR:O	1.98	0.45
6:F:62:VAL:CG1	7:G:106:LEU:HD21	2.46	0.45
7:G:111:ARG:C	7:G:114:VAL:HG12	2.39	0.45
8:H:50:ARG:HH22	9:I:88:THR:HG21	1.80	0.45
8:H:80:TYR:CD1	8:H:80:TYR:O	2.69	0.45
12:L:74:TRP:CD2	12:L:109:LYS:HD2	2.48	0.45
1:A:688:PHE:HB3	1:A:727:TYR:HE2	1.81	0.45
1:A:899:LEU:HD22	1:A:995:ILE:CD1	2.46	0.45
1:A:1052:LEU:HD13	1:A:1166:TYR:CD2	2.51	0.45
1:A:1458:MET:CE	1:A:1548:TRP:HD1	2.22	0.45
1:A:1613:ILE:O	1:A:1680:ILE:HD12	2.16	0.45
1:A:2511:ASP:HB2	1:A:2514:LYS:HB2	1.98	0.45
1:A:3306:LEU:HD22	1:A:3309:TYR:CB	2.43	0.45
2:B:433:ILE:HG12	2:B:463:PHE:CE1	2.51	0.45
2:B:714:ALA:HB1	2:B:766:ILE:HD13	1.97	0.45
2:B:744:MET:CE	2:B:772:ILE:C	2.89	0.45
2:B:1119:LYS:CB	2:B:1138:LYS:HZ3	2.22	0.45
2:B:1490:GLN:HB3	2:B:3612:ASP:CB	2.47	0.45
2:B:3875:GLN:HA	2:B:3878:ILE:HD12	1.98	0.45
3:C:231:ILE:O	3:C:231:ILE:HG13	2.15	0.45
3:C:269:PHE:HB2	3:C:291:SER:CB	2.43	0.45
3:C:780:VAL:C	3:C:838:TRP:CE3	2.91	0.45
3:C:2719:VAL:HG23	3:C:2751:TRP:HB2	1.97	0.45
3:C:2763:GLU:HA	3:C:2763:GLU:OE2	2.16	0.45
3:C:2923:LEU:HB3	3:C:2966:SER:OG	2.17	0.45
4:D:251:MET:HG3	7:G:125:PHE:CZ	2.52	0.45
4:D:640:LYS:HZ1	4:D:643:LYS:HD3	1.81	0.45
5:E:64:GLU:OE1	5:E:64:GLU:N	2.48	0.45
8:H:77:ILE:HG22	8:H:88:LEU:CD1	2.47	0.45
15:O:34:ILE:HD12	15:O:71:ILE:HG23	1.99	0.45
1:A:655:PHE:O	1:A:659:TRP:HD1	1.99	0.45
1:A:878:VAL:CG2	1:A:879:LEU:N	2.79	0.45
1:A:1126:VAL:HG11	1:A:1201:TYR:HE1	1.81	0.45
1:A:1647:ASN:N	1:A:1648:PRO:CD	2.80	0.45
1:A:2027:PHE:CE2	1:A:2051:ILE:HG23	2.50	0.45
1:A:2164:SER:HB2	20:A:4801:ATP:O2A	2.16	0.45
1:A:3067:HIS:CD2	1:A:3092:PHE:HB2	2.52	0.45
1:A:3290:LEU:HD23	1:A:3335:TRP:CH2	2.37	0.45
1:A:4445:ARG:HG2	1:A:4466:GLY:HA2	1.97	0.45
2:B:88:GLY:HA2	2:B:100:THR:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:349:ASN:CB	2:B:416:LEU:CD1	2.94	0.45
2:B:413:PHE:CD2	2:B:416:LEU:HD12	2.51	0.45
2:B:439:LEU:HD21	2:B:456:ILE:HG23	1.99	0.45
2:B:822:PHE:O	2:B:826:LEU:HG	2.16	0.45
2:B:861:ASP:HB3	3:C:170:GLN:CB	2.46	0.45
2:B:935:ASN:CB	3:C:283:THR:HG21	2.35	0.45
2:B:2820:PHE:CZ	2:B:2836:GLN:HB3	2.52	0.45
2:B:3241:GLU:O	2:B:3245:LEU:N	2.50	0.45
3:C:161:PHE:HD2	3:C:177:LEU:HB2	1.81	0.45
3:C:2669:ILE:HD13	3:C:2847:ALA:CB	2.17	0.45
3:C:2698:LEU:CD2	3:C:2698:LEU:C	2.85	0.45
3:C:2711:SER:CA	3:C:2751:TRP:HZ2	2.25	0.45
4:D:297:LYS:HZ3	4:D:328:LEU:CG	2.26	0.45
5:E:183:ILE:CG1	5:E:193:MET:HE1	2.46	0.45
5:E:291:TRP:CH2	5:E:300:PRO:HD3	2.52	0.45
7:G:111:ARG:HA	7:G:123:LEU:HG	1.98	0.45
8:H:79:LEU:HD11	8:H:86:ILE:HB	1.98	0.45
17:Q:139:LYS:C	17:Q:141:LEU:H	2.25	0.45
1:A:590:GLN:CB	1:A:609:TRP:CH2	2.98	0.45
1:A:614:PHE:CZ	1:A:648:LEU:CD1	2.99	0.45
1:A:759:LEU:HD21	1:A:788:LEU:CD2	2.46	0.45
1:A:1727:LEU:HD11	1:A:1788:GLN:HE21	1.82	0.45
1:A:2907:LYS:HB2	1:A:2950:LEU:HD11	1.98	0.45
1:A:3049:LEU:HD12	1:A:3103:TYR:OH	2.16	0.45
1:A:3280:THR:HG22	1:A:3286:PHE:CD1	2.52	0.45
1:A:3453:PHE:HA	1:A:3457:CYS:SG	2.56	0.45
1:A:4082:PHE:CG	1:A:4083:PRO:HD2	2.52	0.45
2:B:1115:ASP:O	2:B:1119:LYS:HG3	2.16	0.45
2:B:1444:LEU:O	2:B:1448:GLU:CG	2.60	0.45
2:B:1447:ILE:HG12	2:B:1480:HIS:HB3	1.99	0.45
2:B:1490:GLN:OE1	2:B:3612:ASP:HB2	2.16	0.45
2:B:3140:LEU:CB	2:B:3433:TRP:CE3	2.52	0.45
2:B:3228:GLU:HG2	2:B:3346:PHE:CZ	2.49	0.45
2:B:3231:VAL:HA	2:B:3339:TRP:HA	1.99	0.45
2:B:3267:ILE:CG2	2:B:3271:ASP:CB	2.93	0.45
2:B:3770:MET:HE1	2:B:4080:PRO:HA	1.99	0.45
3:C:102:TYR:CD1	3:C:103:THR:HG23	2.50	0.45
3:C:2585:PHE:HE1	3:C:2929:LEU:HB2	1.78	0.45
4:D:89:TYR:CG	11:K:56:PRO:HB3	2.51	0.45
4:D:174:GLN:HA	13:M:61:PHE:O	2.15	0.45
4:D:431:ASN:HA	5:E:142:VAL:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:543:MET:CG	4:D:563:MET:HB3	2.46	0.45
4:D:553:TYR:OH	4:D:620:LEU:HD11	2.16	0.45
4:D:595:PHE:CE1	4:D:602:LEU:HD21	2.43	0.45
5:E:168:SER:CB	5:E:222:SER:HA	2.47	0.45
5:E:428:VAL:HG11	5:E:460:ILE:HB	1.97	0.45
7:G:58:SER:O	7:G:62:ASP:HB2	2.10	0.45
8:H:28:ALA:CB	8:H:86:ILE:CD1	2.91	0.45
8:H:46:LYS:CE	9:I:86:ASP:C	2.89	0.45
10:J:64:LEU:HD11	10:J:68:MET:HE2	1.97	0.45
14:N:116:ALA:HB1	15:O:131:PHE:CZ	2.51	0.45
1:A:1007:GLN:HA	1:A:1010:LYS:CE	2.44	0.45
1:A:1135:VAL:HG12	1:A:1136:MET:CE	2.46	0.45
1:A:1444:GLN:C	1:A:1561:VAL:HG22	2.09	0.45
1:A:2418:ILE:CG2	1:A:2428:VAL:HG22	2.47	0.45
1:A:3592:ASP:N	1:A:3593:PRO:HD2	2.32	0.45
2:B:277:GLU:O	2:B:281:ALA:HB2	2.17	0.45
2:B:533:ARG:NE	2:B:534:PRO:CD	2.79	0.45
2:B:725:ILE:CG2	2:B:776:LEU:HG	2.31	0.45
2:B:811:PRO:HA	2:B:900:PHE:CE2	2.51	0.45
2:B:3252:VAL:HG22	2:B:3330:SER:OG	2.15	0.45
2:B:4040:MET:HG2	2:B:4075:PHE:HB2	1.97	0.45
3:C:10:LEU:CD1	3:C:67:CYS:HB3	2.47	0.45
3:C:360:PRO:CG	3:C:361:PRO:HD2	2.46	0.45
3:C:463:PRO:O	3:C:465:LEU:N	2.43	0.45
4:D:538:CYS:O	4:D:538:CYS:SG	2.73	0.45
4:D:624:GLY:N	4:D:625:PRO:CD	2.79	0.45
5:E:99:ILE:HD13	6:F:31:ILE:HD11	1.85	0.45
5:E:343:LEU:HD13	5:E:355:ILE:HG21	1.97	0.45
6:F:80:ARG:NH2	6:F:103:CYS:SG	2.85	0.45
7:G:74:LEU:HD22	7:G:148:ILE:CG2	2.47	0.45
10:J:77:HIS:CA	11:K:70:VAL:HG23	2.46	0.45
12:L:70:GLY:N	12:L:109:LYS:NZ	2.65	0.45
13:M:53:TRP:CZ3	13:M:86:LYS:HB2	2.50	0.45
1:A:886:ILE:O	1:A:890:TYR:CD1	2.66	0.45
1:A:894:PHE:CG	1:A:972:TRP:HH2	2.34	0.45
1:A:1041:ASN:CA	1:A:1047:ASN:ND2	2.79	0.45
1:A:1100:LEU:CD2	1:A:1159:MET:CE	2.94	0.45
1:A:1134:TYR:CB	1:A:1268:ARG:HE	2.30	0.45
1:A:3248:LEU:HD12	17:Q:104:TYR:CZ	2.51	0.45
1:A:3999:THR:HG21	1:A:4044:GLN:NE2	2.31	0.45
2:B:682:LYS:HE2	5:E:186:PHE:CZ	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:814:TYR:O	2:B:818:LEU:HG	2.17	0.45
2:B:903:ARG:CG	2:B:914:ASP:OD2	2.56	0.45
2:B:1116:PHE:CA	2:B:1119:LYS:HZ3	2.19	0.45
2:B:1806:ILE:HD12	2:B:4535:GLU:HB2	1.98	0.45
2:B:2267:ILE:HD12	2:B:2311:ALA:HB2	1.99	0.45
2:B:2731:SER:OG	2:B:2732:ALA:N	2.50	0.45
2:B:3236:LYS:HA	2:B:3291:ILE:HG13	1.97	0.45
3:C:2189:LEU:C	3:C:2189:LEU:HD13	2.41	0.45
3:C:2357:LEU:HD23	3:C:2488:ILE:HD12	1.99	0.45
3:C:2720:PRO:CA	3:C:2798:PHE:CE2	2.95	0.45
4:D:177:ASN:HD21	13:M:60:ASN:HB2	0.29	0.45
4:D:248:MET:HE2	7:G:147:VAL:CB	2.42	0.45
5:E:289:MET:HB3	5:E:300:PRO:CB	2.47	0.45
5:E:433:TRP:NE1	5:E:451:LYS:HD3	2.32	0.45
7:G:119:PRO:HG2	9:I:12:ILE:HD13	1.97	0.45
8:H:43:THR:CB	9:I:86:ASP:OD2	2.65	0.45
10:J:68:MET:HE3	10:J:107:MET:SD	2.56	0.45
11:K:29:ALA:HB1	11:K:87:ILE:HD12	1.98	0.45
11:K:36:TYR:CD2	11:K:41:LYS:HB3	2.45	0.45
14:N:75:GLN:N	15:O:93:GLN:HE21	2.03	0.45
15:O:24:TYR:CD1	15:O:26:LYS:HE2	2.51	0.45
1:A:818:LEU:CD1	1:A:818:LEU:N	2.67	0.45
1:A:889:TYR:HE2	7:G:12:SER:C	2.24	0.45
1:A:1133:GLY:HA2	1:A:1272:LEU:CG	2.45	0.45
1:A:1639:PHE:CE1	1:A:1653:ILE:CG1	2.98	0.45
1:A:2030:LEU:HB2	1:A:2101:ILE:HD13	1.98	0.45
1:A:2786:CYS:HB3	1:A:2850:LEU:HD22	1.98	0.45
1:A:3251:ILE:HD12	17:Q:82:ASN:C	2.40	0.45
1:A:3260:LYS:NZ	1:A:3267:LEU:HD21	2.32	0.45
1:A:3560:HIS:CG	1:A:3561:PRO:HD2	2.51	0.45
2:B:718:ILE:HB	2:B:770:LYS:NZ	2.32	0.45
2:B:1119:LYS:CB	2:B:1138:LYS:HZ2	2.19	0.45
2:B:1792:THR:HG22	2:B:2038:ASN:HD21	1.80	0.45
2:B:2333:PRO:CA	20:B:5601:ATP:C2	2.91	0.45
2:B:3077:SER:HG	2:B:3486:ILE:HD11	1.82	0.45
2:B:3157:LEU:HA	2:B:3160:LYS:CE	2.47	0.45
2:B:3690:LEU:O	2:B:3694:LEU:HD23	2.16	0.45
3:C:111:THR:HG21	3:C:187:TRP:CH2	2.52	0.45
3:C:261:ILE:HG23	3:C:385:ASP:CB	2.43	0.45
3:C:338:PHE:CD2	3:C:338:PHE:O	2.70	0.45
3:C:341:TRP:HB2	3:C:345:TRP:NE1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:121:TYR:CZ	6:F:17:LEU:HD22	2.52	0.45
5:E:355:ILE:H	5:E:355:ILE:CD1	2.24	0.45
5:E:420:THR:CG2	5:E:472:SER:C	2.90	0.45
6:F:61:LYS:NZ	8:H:33:ASP:O	2.49	0.45
9:I:79:ILE:HG22	9:I:105:VAL:HG13	1.98	0.45
12:L:37:GLN:HG2	12:L:60:PHE:CD1	2.51	0.45
14:N:82:SER:OG	15:O:57:ASN:CG	2.59	0.45
1:A:805:ARG:HH11	5:E:149:THR:HG21	1.82	0.45
1:A:899:LEU:HD21	1:A:989:ILE:HG12	1.98	0.45
1:A:1550:LYS:HB3	1:A:1554:LYS:NZ	2.32	0.45
1:A:2432:TYR:CE1	1:A:2471:MET:HE1	2.51	0.45
1:A:3095:TYR:CE1	1:A:3452:ALA:HA	2.51	0.45
1:A:3350:LYS:CB	1:A:3351:PRO:CD	2.92	0.45
1:A:3638:LEU:HA	1:A:3641:LYS:HE3	1.98	0.45
1:A:4583:TYR:HB3	1:A:4584:PRO:HD2	1.98	0.45
2:B:524:LEU:C	2:B:524:LEU:CD2	2.85	0.45
2:B:867:VAL:CG1	2:B:944:ILE:HD13	2.46	0.45
2:B:1212:ILE:HG22	2:B:1213:PRO:HD3	1.97	0.45
2:B:1230:MET:SD	2:B:1266:VAL:CB	3.04	0.45
2:B:2543:GLY:N	19:B:5501:ADP:O2A	2.49	0.45
2:B:3140:LEU:HD12	2:B:3433:TRP:HB3	1.99	0.45
2:B:3528:CYS:SG	2:B:3642:THR:HG21	2.57	0.45
3:C:98:PHE:CE2	3:C:160:ILE:HD13	2.52	0.45
3:C:211:LYS:HB3	3:C:212:PRO:HD2	1.97	0.45
3:C:227:SER:HB3	3:C:249:PRO:HA	1.97	0.45
3:C:3244:VAL:HB	3:C:3878:VAL:HG22	1.98	0.45
4:D:209:TYR:HE1	4:D:213:MET:SD	2.40	0.45
4:D:329:ILE:CD1	4:D:350:VAL:HG21	2.44	0.45
5:E:274:LYS:HG3	5:E:278:GLU:CD	2.42	0.45
5:E:435:ASP:OD1	5:E:435:ASP:N	2.49	0.45
5:E:492:ASP:N	5:E:495:TYR:CE2	2.84	0.45
5:E:497:MET:CE	5:E:501:GLU:HB2	2.47	0.45
6:F:23:TYR:CD1	6:F:23:TYR:O	2.70	0.45
8:H:46:LYS:CE	9:I:86:ASP:O	2.61	0.45
8:H:84:LEU:N	8:H:84:LEU:CD1	2.79	0.45
9:I:85:TYR:O	9:I:85:TYR:CD1	2.70	0.45
12:L:16:LEU:HD11	12:L:35:ILE:HG21	1.98	0.45
12:L:73:GLU:CB	13:M:66:ILE:CD1	2.78	0.45
14:N:74:GLN:NE2	14:N:77:ASN:HA	2.31	0.45
15:O:30:TYR:CE1	15:O:34:ILE:HG13	2.51	0.45
1:A:1013:VAL:CG2	1:A:1076:LEU:HD11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1126:VAL:CG2	1:A:1201:TYR:OH	2.63	0.45
1:A:1143:ARG:HE	4:D:171:ARG:HH21	1.65	0.45
1:A:1778:ARG:HA	1:A:1778:ARG:NE	2.31	0.45
1:A:3229:PRO:CB	1:A:3233:ILE:HD13	2.46	0.45
1:A:3306:LEU:HD11	1:A:3310:LEU:CG	2.44	0.45
2:B:804:ARG:CZ	2:B:899:LEU:HB3	2.47	0.45
2:B:956:LEU:HA	2:B:959:ILE:HG13	1.99	0.45
2:B:1604:LYS:HA	2:B:1945:GLN:OE1	2.17	0.45
4:D:94:ARG:NE	11:K:52:GLU:O	2.47	0.45
5:E:256:PRO:HG2	5:E:259:ASN:HB3	1.98	0.45
5:E:258:GLU:CD	5:E:258:GLU:N	2.73	0.45
13:M:64:HIS:CG	13:M:64:HIS:O	2.70	0.45
15:O:31:PRO:CD	15:O:109:ASN:ND2	2.80	0.45
1:A:805:ARG:NH2	5:E:152:LEU:CD1	2.80	0.45
1:A:1013:VAL:CG1	1:A:1076:LEU:HD21	2.46	0.45
2:B:514:TYR:CE2	2:B:523:LEU:HB2	2.51	0.45
2:B:1237:ARG:CD	2:B:1260:ALA:CA	2.84	0.45
2:B:2546:ALA:HB2	19:B:5501:ADP:H5'2	1.98	0.45
2:B:3265:GLN:HG3	2:B:3283:PHE:CE2	2.52	0.45
2:B:3770:MET:HE1	2:B:4080:PRO:CA	2.47	0.45
2:B:3947:ARG:NH1	2:B:3957:VAL:HG11	2.32	0.45
3:C:53:PRO:CD	3:C:81:PRO:HB2	2.47	0.45
3:C:1174:LEU:CD1	3:C:1191:ILE:HG22	2.47	0.45
4:D:68:GLU:HG3	5:E:12:LYS:CB	2.47	0.45
4:D:526:ARG:CB	4:D:528:TRP:CZ2	2.97	0.45
5:E:58:GLU:CB	10:J:89:VAL:HG22	2.45	0.45
5:E:334:LEU:CD1	5:E:344:THR:HG22	2.47	0.45
9:I:32:GLY:HA2	9:I:35:LEU:HD12	1.98	0.45
10:J:28:TRP:CE3	10:J:28:TRP:O	2.70	0.45
12:L:76:CYS:SG	12:L:106:LEU:O	2.70	0.45
15:O:33:LYS:NZ	15:O:75:LYS:HD2	2.32	0.45
1:A:758:ASP:HA	1:A:761:LEU:HB3	1.99	0.44
1:A:935:VAL:HG12	1:A:1081:ILE:CD1	2.44	0.44
1:A:1127:LYS:O	1:A:1208:TYR:OH	2.34	0.44
1:A:1134:TYR:HB2	1:A:1268:ARG:HE	1.82	0.44
1:A:1458:MET:SD	1:A:1552:MET:HB2	2.57	0.44
1:A:2151:HIS:HB2	1:A:2264:MET:HE1	1.99	0.44
1:A:3293:PHE:HZ	1:A:3335:TRP:HH2	1.61	0.44
2:B:591:TRP:NE1	5:E:411:TYR:OH	2.51	0.44
2:B:649:GLU:O	2:B:652:SER:OG	2.29	0.44
2:B:658:GLN:HG2	2:B:673:PHE:CA	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1237:ARG:HH22	2:B:1262:ASP:CB	2.30	0.44
2:B:3297:PHE:CE2	2:B:3302:ILE:CD1	2.96	0.44
2:B:3901:TRP:CZ2	2:B:3907:PRO:HB2	2.52	0.44
3:C:294:LEU:HB2	3:C:301:TRP:CE3	2.52	0.44
3:C:1690:LYS:N	20:C:4201:ATP:O2B	2.47	0.44
3:C:2593:ARG:CZ	3:C:2921:LEU:HD21	2.47	0.44
3:C:2787:ILE:HD13	3:C:2824:TYR:HB3	1.99	0.44
3:C:3054:SER:OG	3:C:3055:ALA:N	2.48	0.44
4:D:66:LEU:CB	4:D:70:MET:HB2	2.46	0.44
4:D:172:GLU:H	4:D:172:GLU:HG2	1.60	0.44
4:D:329:ILE:HB	4:D:344:PHE:HB2	1.98	0.44
4:D:429:MET:HE3	4:D:434:GLU:OE2	2.17	0.44
4:D:501:LEU:HD12	4:D:522:ASP:CA	2.47	0.44
5:E:14:PHE:CD1	5:E:14:PHE:O	2.70	0.44
5:E:46:ASN:HB2	12:L:90:ALA:HA	1.98	0.44
5:E:57:SER:O	10:J:90:HIS:CD2	2.69	0.44
5:E:67:LYS:O	8:H:72:GLU:HA	2.17	0.44
5:E:453:SER:HB3	5:E:480:ASP:OD2	2.16	0.44
5:E:515:LYS:HD3	5:E:515:LYS:C	2.42	0.44
7:G:76:TYR:CG	7:G:76:TYR:O	2.70	0.44
15:O:61:GLU:CD	15:O:61:GLU:C	2.85	0.44
1:A:1889:LEU:HD12	1:A:1920:TRP:CZ2	2.52	0.44
1:A:3546:SER:HA	1:A:3549:ILE:HG22	2.00	0.44
2:B:515:ASP:HA	2:B:520:ARG:NH2	2.32	0.44
2:B:746:GLU:O	2:B:750:PRO:CD	2.64	0.44
2:B:1447:ILE:CG2	2:B:1504:TRP:CZ2	2.84	0.44
2:B:1612:LEU:CD2	2:B:1637:CYS:SG	3.03	0.44
2:B:2417:LEU:N	2:B:2418:PRO:HD2	2.31	0.44
2:B:2523:MET:HE2	2:B:2523:MET:HA	1.99	0.44
2:B:3261:ILE:O	2:B:3306:ILE:HG23	2.08	0.44
2:B:3606:GLN:HE21	2:B:3613:PRO:HB2	1.82	0.44
3:C:336:ILE:N	3:C:336:ILE:CD1	2.79	0.44
3:C:379:LYS:CA	3:C:418:CYS:O	2.66	0.44
3:C:2018:GLN:NE2	19:C:4702:ADP:C2'	2.54	0.44
3:C:2213:ARG:NH2	19:C:4702:ADP:PB	2.89	0.44
3:C:2745:LYS:CG	3:C:2749:VAL:CG2	2.71	0.44
4:D:246:LYS:HE2	4:D:250:ARG:HH21	1.82	0.44
5:E:80:TRP:CZ3	5:E:84:VAL:HG11	2.52	0.44
5:E:129:LEU:HD12	6:F:80:ARG:NE	2.32	0.44
5:E:325:ASN:CB	5:E:375:ARG:HD2	2.48	0.44
5:E:386:VAL:HG21	5:E:415:GLY:CA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:394:TRP:CG	5:E:401:PRO:HA	2.44	0.44
5:E:498:GLN:HB3	5:E:499:PRO:HD2	1.99	0.44
8:H:16:MET:HE3	8:H:20:MET:HG2	1.98	0.44
15:O:30:TYR:CD2	15:O:30:TYR:O	2.70	0.44
1:A:22:GLN:C	1:A:25:ASP:N	2.76	0.44
1:A:599:ASN:CB	4:D:400:TRP:CZ2	2.92	0.44
1:A:686:VAL:HG21	1:A:731:LEU:HD21	1.83	0.44
1:A:801:ILE:HG22	1:A:862:LEU:HD11	1.98	0.44
1:A:821:LEU:O	1:A:912:ARG:CZ	2.66	0.44
1:A:1013:VAL:CG1	1:A:1076:LEU:CD2	2.95	0.44
1:A:1066:VAL:HG11	1:A:1068:THR:O	2.14	0.44
1:A:1132:LEU:O	1:A:1272:LEU:HD21	2.17	0.44
1:A:1143:ARG:NE	4:D:171:ARG:HH21	2.14	0.44
1:A:1417:GLU:O	1:A:1420:THR:OG1	2.29	0.44
1:A:1436:ILE:HG22	1:A:1440:TRP:HD1	1.82	0.44
1:A:1478:LEU:HB3	1:A:1494:VAL:HG13	1.99	0.44
1:A:1540:GLN:O	1:A:1544:ILE:CB	2.64	0.44
1:A:3235:TYR:CE2	1:A:3269:LEU:HD11	2.06	0.44
2:B:177:PRO:O	2:B:197:GLU:CB	2.65	0.44
2:B:660:LEU:HG	2:B:755:ILE:HG21	1.98	0.44
2:B:993:TYR:CZ	2:B:1067:ILE:HG21	2.52	0.44
2:B:1529:TYR:HA	2:B:1549:PHE:CZ	2.52	0.44
2:B:1606:PHE:HB3	2:B:1609:PHE:CD2	2.53	0.44
2:B:2961:PRO:HA	2:B:2971:ILE:HD12	1.99	0.44
2:B:3147:GLN:HB2	2:B:3426:LEU:HB3	1.98	0.44
2:B:3238:HIS:HE1	2:B:3335:LYS:HE3	1.83	0.44
3:C:227:SER:CB	3:C:249:PRO:HA	2.47	0.44
3:C:287:PHE:CE1	3:C:322:GLU:HB2	2.52	0.44
3:C:380:VAL:N	3:C:418:CYS:O	2.51	0.44
3:C:2207:HIS:CE1	3:C:2514:TRP:CZ3	3.06	0.44
3:C:2760:SER:HB2	3:C:2763:GLU:CG	2.48	0.44
3:C:2934:PHE:CE2	3:C:3001:ILE:CG1	3.00	0.44
4:D:79:ASN:ND2	15:O:103:TRP:CH2	2.85	0.44
4:D:251:MET:HE3	7:G:136:MET:HE3	1.98	0.44
4:D:294:GLN:CG	4:D:297:LYS:HZ1	2.28	0.44
4:D:312:PHE:CD1	4:D:312:PHE:O	2.70	0.44
5:E:26:ARG:HB2	5:E:26:ARG:CZ	2.48	0.44
5:E:61:VAL:HG11	10:J:95:PHE:CE1	2.52	0.44
9:I:35:LEU:HB3	9:I:39:GLN:HE21	1.82	0.44
12:L:27:ALA:HB3	12:L:30:LEU:HG	1.98	0.44
14:N:78:HIS:O	14:N:78:HIS:CG	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:933:VAL:CG2	1:A:951:ILE:CD1	2.93	0.44
1:A:948:LEU:HB3	1:A:1010:LYS:CD	2.45	0.44
1:A:971:ASN:CB	1:A:983:ALA:CA	2.86	0.44
1:A:1027:CYS:O	1:A:1088:TRP:CZ3	2.70	0.44
1:A:1070:LYS:HG2	1:A:1075:GLU:HG2	2.00	0.44
1:A:1585:GLN:NE2	1:A:1585:GLN:C	2.73	0.44
1:A:2367:CYS:HB3	1:A:2386:PHE:CD1	2.53	0.44
2:B:225:PRO:CB	2:B:298:LEU:CB	2.96	0.44
2:B:440:GLU:HB2	2:B:460:PHE:CD1	2.52	0.44
2:B:1533:LEU:HD23	2:B:1534:LEU:HG	1.99	0.44
2:B:2413:LEU:O	2:B:2417:LEU:N	2.51	0.44
2:B:3353:VAL:HA	2:B:3356:LEU:HD12	2.00	0.44
3:C:161:PHE:CG	3:C:161:PHE:O	2.70	0.44
3:C:794:VAL:O	3:C:824:MET:HE1	2.18	0.44
3:C:1438:MET:HE1	3:C:1454:PHE:CE2	2.52	0.44
3:C:2733:TYR:O	3:C:2733:TYR:CD1	2.70	0.44
4:D:303:CYS:HB2	4:D:353:LEU:CD2	2.48	0.44
4:D:428:LEU:HD12	4:D:428:LEU:N	2.32	0.44
4:D:441:LEU:HB3	4:D:457:ALA:HB3	1.98	0.44
4:D:621:CYS:SG	4:D:622:LYS:N	2.90	0.44
5:E:150:LEU:HD11	5:E:475:LEU:HD22	1.99	0.44
5:E:203:LEU:C	5:E:203:LEU:CD2	2.85	0.44
9:I:24:ILE:CG2	9:I:98:PHE:CD1	2.97	0.44
18:R:98:MET:C	18:R:100:GLY:N	2.70	0.44
1:A:730:LEU:HD23	1:A:781:LEU:HD22	2.00	0.44
1:A:764:ARG:N	1:A:765:PRO:HD2	2.32	0.44
1:A:821:LEU:O	1:A:912:ARG:CD	2.64	0.44
1:A:869:TYR:CD2	1:A:871:LEU:HB3	2.53	0.44
1:A:1020:PHE:HA	1:A:1023:PHE:CZ	2.40	0.44
1:A:1441:ASN:CA	1:A:1562:ILE:HD11	2.48	0.44
1:A:2839:LEU:HD11	19:A:4901:ADP:N6	2.14	0.44
1:A:3124:ILE:HD11	1:A:3429:TRP:NE1	2.32	0.44
1:A:3131:ILE:HG12	1:A:3422:LEU:CD1	2.48	0.44
2:B:426:ILE:C	2:B:430:THR:HG23	2.34	0.44
2:B:946:ARG:CG	2:B:953:GLY:HA3	2.47	0.44
2:B:967:GLN:OE1	3:C:43:LYS:HD3	2.16	0.44
2:B:1447:ILE:HG12	2:B:1480:HIS:CG	2.52	0.44
2:B:1603:LYS:HD3	2:B:1610:TYR:CD1	2.52	0.44
2:B:2176:VAL:HG13	2:B:2177:ARG:HG2	1.99	0.44
2:B:2742:ARG:NH2	19:B:5501:ADP:O2B	2.47	0.44
3:C:12:GLN:HE22	3:C:349:LEU:HB3	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1466:SER:HB3	3:C:3629:LEU:HD13	2.00	0.44
5:E:20:PHE:CG	5:E:20:PHE:O	2.70	0.44
5:E:457:LEU:N	5:E:457:LEU:CD1	2.80	0.44
11:K:18:MET:HA	11:K:18:MET:CE	2.33	0.44
11:K:42:ILE:CG2	11:K:62:VAL:HG21	2.46	0.44
13:M:7:VAL:HG23	13:M:7:VAL:O	2.15	0.44
1:A:98:ILE:HA	1:A:121:GLY:HA2	1.99	0.44
1:A:761:LEU:HD12	1:A:872:ASP:OD2	2.17	0.44
1:A:1016:PHE:O	1:A:1020:PHE:CG	2.70	0.44
1:A:1592:LEU:HA	1:A:1592:LEU:HD12	1.82	0.44
1:A:2745:LEU:HD11	1:A:2754:VAL:HG21	1.99	0.44
1:A:2938:ILE:HD12	1:A:2999:LEU:HD21	1.99	0.44
1:A:3684:ASN:HB3	1:A:3726:VAL:HG22	1.98	0.44
2:B:598:ARG:NH1	5:E:389:TRP:NE1	2.66	0.44
2:B:865:VAL:HG11	3:C:169:TYR:HD1	1.83	0.44
2:B:1528:LEU:HD22	2:B:1591:CYS:HB2	1.97	0.44
2:B:1599:LEU:HD22	2:B:1617:LEU:CD2	2.48	0.44
2:B:3119:LYS:NZ	2:B:3119:LYS:CB	2.73	0.44
2:B:3144:ALA:HA	2:B:3430:ASN:HD21	1.83	0.44
2:B:3765:SER:HB2	2:B:3772:GLN:HA	2.00	0.44
2:B:4187:ILE:HD12	2:B:4213:PHE:CE1	2.53	0.44
3:C:24:HIS:CE1	3:C:339:GLY:O	2.70	0.44
3:C:99:GLY:HA3	3:C:149:HIS:HE2	1.80	0.44
3:C:318:PRO:HB3	3:C:350:TRP:CD2	2.51	0.44
3:C:1188:LEU:HD11	3:C:1207:LEU:HD11	1.98	0.44
3:C:1738:PHE:CD2	3:C:1770:MET:HE1	2.52	0.44
3:C:2177:ILE:CG2	3:C:2233:PRO:HA	2.47	0.44
3:C:2556:VAL:HG11	3:C:2937:TYR:CD1	2.53	0.44
3:C:2927:ASP:OD2	3:C:2974:ILE:CD1	2.65	0.44
3:C:2989:LEU:HD12	3:C:2990:PRO:HD2	2.00	0.44
4:D:242:LYS:CG	7:G:60:VAL:HG21	2.45	0.44
4:D:246:LYS:HE2	4:D:250:ARG:NH2	2.32	0.44
4:D:298:ASN:N	4:D:298:ASN:HD22	2.14	0.44
4:D:573:VAL:HB	4:D:579:LEU:HD11	1.99	0.44
5:E:394:TRP:CZ2	5:E:401:PRO:HB3	2.51	0.44
6:F:35:ARG:CZ	6:F:41:SER:CB	2.80	0.44
10:J:38:GLU:OE1	15:O:29:PHE:CD1	2.67	0.44
10:J:99:TYR:CZ	10:J:104:ALA:HB2	2.52	0.44
12:L:67:PHE:CD2	12:L:67:PHE:O	2.70	0.44
13:M:44:GLU:HA	13:M:47:LYS:NZ	2.33	0.44
15:O:76:VAL:N	15:O:77:PRO:CD	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:113:TYR:CE2	15:O:115:TYR:HB2	2.52	0.44
1:A:818:LEU:O	1:A:818:LEU:CD2	2.64	0.44
1:A:1600:PRO:HB2	1:A:1917:SER:CB	2.45	0.44
1:A:3240:VAL:CG1	1:A:3244:PHE:CE1	2.92	0.44
1:A:3322:ALA:CB	1:A:3333:LEU:HD12	2.44	0.44
1:A:4056:ILE:CD1	1:A:4072:LEU:HD21	2.45	0.44
2:B:555:LEU:HD21	2:B:625:LEU:C	2.43	0.44
2:B:725:ILE:CD1	2:B:780:VAL:HB	2.47	0.44
2:B:736:LEU:HG	2:B:856:TRP:HA	1.98	0.44
2:B:798:ASN:OD1	2:B:799:VAL:N	2.51	0.44
2:B:986:PHE:HA	2:B:989:ARG:NE	2.32	0.44
2:B:1456:PHE:CG	2:B:1569:VAL:CG1	2.98	0.44
2:B:1783:GLU:HA	2:B:1786:LYS:HE2	2.00	0.44
2:B:3067:ILE:HD13	2:B:3119:LYS:HG3	1.99	0.44
3:C:244:ILE:N	3:C:244:ILE:HD12	2.32	0.44
3:C:288:VAL:C	3:C:320:PRO:HB3	2.42	0.44
3:C:2663:ALA:CB	3:C:2855:GLU:OE2	2.66	0.44
3:C:3014:PRO:CD	3:C:3125:THR:HG22	2.47	0.44
4:D:89:TYR:CD2	11:K:56:PRO:HB3	2.53	0.44
4:D:584:ILE:H	4:D:584:ILE:HG13	1.49	0.44
5:E:57:SER:O	10:J:90:HIS:N	2.49	0.44
5:E:64:GLU:OE1	10:J:18:TYR:OH	2.32	0.44
5:E:129:LEU:CD1	6:F:80:ARG:CD	2.93	0.44
6:F:26:PHE:CE1	6:F:48:ILE:HG23	2.53	0.44
8:H:65:PHE:CZ	8:H:85:ALA:HB3	2.52	0.44
8:H:81:VAL:HG13	8:H:81:VAL:O	2.18	0.44
10:J:37:LEU:CD2	10:J:37:LEU:C	2.85	0.44
11:K:76:ASN:HB3	11:K:91:ARG:HB3	2.00	0.44
12:L:77:ILE:HG13	13:M:63:SER:OG	2.17	0.44
1:A:683:LYS:HZ1	1:A:741:ASN:HD22	1.65	0.44
1:A:894:PHE:CG	1:A:972:TRP:CH2	3.06	0.44
1:A:952:GLN:NE2	1:A:1010:LYS:HZ3	2.16	0.44
1:A:1016:PHE:CD2	1:A:1069:TYR:CD1	3.06	0.44
1:A:1422:SER:O	1:A:1486:HIS:CD2	2.70	0.44
1:A:1511:TRP:N	1:A:1574:LEU:HD13	2.33	0.44
1:A:1862:MET:HE1	1:A:1920:TRP:CZ2	2.53	0.44
1:A:3102:LEU:HD23	1:A:3451:THR:HG23	2.00	0.44
1:A:3114:GLU:HB2	1:A:3436:ILE:HG21	2.00	0.44
1:A:3284:MET:N	1:A:3284:MET:SD	2.90	0.44
1:A:3307:GLU:N	1:A:3308:PRO:CD	2.80	0.44
2:B:659:THR:HA	2:B:755:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1467:PHE:HD1	2:B:1470:LEU:HD21	1.83	0.44
2:B:2150:THR:HG22	2:B:2203:ASN:HD22	1.82	0.44
2:B:2260:TRP:HB3	2:B:2300:ARG:HB2	2.00	0.44
2:B:2441:LEU:C	2:B:2441:LEU:HD13	2.43	0.44
2:B:3327:ALA:CA	2:B:3334:SER:HB2	2.48	0.44
3:C:2532:GLU:N	3:C:2533:PRO:HD2	2.32	0.44
5:E:74:SER:HB2	9:I:56:ILE:HB	2.00	0.44
6:F:62:VAL:HG11	7:G:106:LEU:CD1	2.48	0.44
7:G:99:ILE:HG23	7:G:103:ILE:CD1	2.47	0.44
10:J:40:ALA:HB1	10:J:68:MET:HE1	1.99	0.44
10:J:61:ALA:HB2	10:J:80:PHE:HZ	1.57	0.44
10:J:86:CYS:HB2	11:K:61:VAL:CG1	2.28	0.44
14:N:84:GLN:OE1	14:N:84:GLN:HA	2.18	0.44
1:A:655:PHE:CZ	1:A:659:TRP:CD1	3.05	0.44
1:A:769:THR:O	1:A:769:THR:HG22	2.18	0.44
1:A:801:ILE:O	1:A:806:ILE:HG22	2.18	0.44
1:A:802:ILE:HA	1:A:806:ILE:HG22	1.98	0.44
1:A:1548:TRP:CD1	1:A:1548:TRP:O	2.70	0.44
1:A:1639:PHE:CD1	1:A:1653:ILE:HG12	2.53	0.44
1:A:2663:LYS:HB3	1:A:2768:GLN:HE22	1.82	0.44
1:A:3216:GLU:HB3	1:A:3217:SER:H	1.56	0.44
1:A:3231:ASP:CG	1:A:3258:PHE:CD2	2.81	0.44
1:A:3249:ILE:CD1	1:A:3274:ASP:N	2.63	0.44
1:A:3991:LEU:HB2	1:A:4094:THR:HG22	2.00	0.44
2:B:349:ASN:HA	2:B:416:LEU:HD22	1.88	0.44
2:B:2188:SER:O	20:B:5601:ATP:PB	2.76	0.44
2:B:2441:LEU:O	2:B:2445:GLY:N	2.50	0.44
2:B:2591:ASN:HD22	2:B:2644:PHE:HB2	1.83	0.44
2:B:3243:LYS:CD	2:B:3285:ASN:O	2.66	0.44
3:C:90:ILE:CD1	3:C:96:LEU:HD23	2.48	0.44
3:C:161:PHE:O	3:C:161:PHE:CD1	2.70	0.44
3:C:259:PRO:HB3	3:C:264:TRP:CH2	2.53	0.44
3:C:341:TRP:CE3	3:C:341:TRP:O	2.70	0.44
3:C:3034:LEU:HB3	3:C:3041:ILE:HG22	2.00	0.44
3:C:3600:MET:HB3	3:C:3630:MET:CE	2.48	0.44
4:D:294:GLN:NE2	4:D:297:LYS:NZ	2.60	0.44
5:E:150:LEU:HB3	5:E:151:MET:HE3	2.00	0.44
5:E:185:ARG:HB2	5:E:188:GLN:HB2	1.98	0.44
12:L:14:GLU:HA	12:L:15:PRO:HD3	1.79	0.44
1:A:729:GLU:OE1	1:A:781:LEU:HD13	2.17	0.43
1:A:945:ASN:HB3	1:A:950:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2357:VAL:HA	1:A:2360:ILE:HD12	2.00	0.43
1:A:2839:LEU:HD13	19:A:4901:ADP:C4	2.52	0.43
2:B:801:ILE:CD1	2:B:878:ALA:C	2.63	0.43
2:B:1061:GLN:CD	2:B:1095:ILE:HG12	2.43	0.43
2:B:1681:ALA:HB3	2:B:1684:HIS:HB3	1.99	0.43
2:B:3267:ILE:CG2	2:B:3267:ILE:O	2.66	0.43
3:C:7:TRP:CE3	3:C:352:LEU:HB3	2.53	0.43
3:C:12:GLN:HG3	3:C:69:TRP:HE1	1.83	0.43
3:C:90:ILE:HD11	3:C:96:LEU:HD21	2.00	0.43
3:C:229:ILE:HD11	3:C:301:TRP:NE1	2.31	0.43
3:C:327:PHE:CE2	3:C:336:ILE:HB	2.52	0.43
3:C:2416:LEU:HD23	3:C:2417:PHE:N	2.32	0.43
3:C:2927:ASP:CB	3:C:2974:ILE:HD13	2.45	0.43
4:D:208:TYR:HE2	9:I:19:MET:HE3	1.81	0.43
4:D:216:HIS:CA	4:D:217:GLN:N	2.78	0.43
4:D:334:LEU:HD23	4:D:334:LEU:HA	1.86	0.43
4:D:394:LYS:HG3	4:D:394:LYS:O	2.18	0.43
5:E:112:LEU:HD21	6:F:97:MET:CE	2.43	0.43
5:E:156:GLU:HG3	5:E:157:LYS:HG2	2.00	0.43
5:E:237:ASN:N	5:E:237:ASN:ND2	2.66	0.43
11:K:44:SER:HB2	11:K:48:LYS:NZ	2.32	0.43
14:N:115:MET:HE3	15:O:129:CYS:HB2	2.00	0.43
14:N:116:ALA:HB1	15:O:131:PHE:CE1	2.48	0.43
1:A:402:PRO:CA	1:A:467:ILE:O	2.62	0.43
1:A:1013:VAL:CA	1:A:1016:PHE:CE1	2.91	0.43
1:A:1100:LEU:HD22	1:A:1163:LEU:CB	2.46	0.43
1:A:1271:ASN:O	4:D:165:LYS:HB3	2.18	0.43
1:A:1274:GLY:HA3	4:D:164:ASN:OD1	2.15	0.43
1:A:1591:TYR:CD2	1:A:1591:TYR:C	2.96	0.43
1:A:2866:VAL:HG11	1:A:3026:TRP:CH2	2.53	0.43
1:A:2925:THR:HG22	1:A:3000:CYS:HB2	2.00	0.43
1:A:3544:LYS:HE3	1:A:3545:LEU:HD13	1.99	0.43
1:A:4042:ILE:HD12	1:A:4042:ILE:N	2.33	0.43
1:A:4046:CYS:HB2	1:A:4076:CYS:HB3	1.99	0.43
2:B:500:GLU:OE1	2:B:535:ILE:CG1	2.60	0.43
2:B:516:THR:CG2	5:E:406:LYS:HA	2.46	0.43
2:B:694:VAL:HB	2:B:695:PRO:HD2	2.00	0.43
2:B:965:ILE:N	2:B:965:ILE:CD1	2.81	0.43
2:B:1441:GLU:O	2:B:1445:LYS:HG3	2.19	0.43
2:B:2190:LYS:CE	20:B:5601:ATP:PB	3.05	0.43
2:B:4206:ARG:CZ	2:B:4573:ILE:HG22	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4546:PRO:HB2	2:B:4548:TYR:CE2	2.53	0.43
3:C:22:SER:HB3	3:C:341:TRP:HB3	2.01	0.43
3:C:53:PRO:O	3:C:53:PRO:CD	2.67	0.43
3:C:264:TRP:HB2	3:C:296:ILE:HD12	1.99	0.43
3:C:1047:LEU:HG	3:C:1111:LEU:HD11	2.00	0.43
3:C:1281:MET:HE1	3:C:1328:LEU:HD23	2.00	0.43
3:C:2743:ASN:HD21	3:C:2786:ASN:HA	1.83	0.43
3:C:3792:ILE:HD12	3:C:3801:ASN:HD22	1.83	0.43
4:D:191:PRO:O	9:I:91:ASN:CG	2.61	0.43
4:D:286:ILE:CG2	4:D:287:TRP:CZ3	3.01	0.43
4:D:564:ASP:OD2	4:D:583:LYS:CE	2.67	0.43
5:E:63:THR:HB	10:J:99:TYR:OH	2.17	0.43
5:E:71:ARG:O	8:H:68:PHE:HA	2.18	0.43
6:F:65:ARG:HH11	6:F:65:ARG:HG3	1.82	0.43
8:H:12:LYS:HE2	8:H:80:TYR:CE2	2.53	0.43
8:H:19:GLU:C	8:H:19:GLU:CD	2.85	0.43
8:H:60:ILE:CD1	9:I:78:ILE:CG1	2.91	0.43
11:K:28:GLN:HG3	11:K:49:PHE:CD1	2.53	0.43
14:N:68:CYS:HB2	14:N:113:PHE:HB2	2.00	0.43
15:O:121:TYR:O	15:O:121:TYR:CG	2.70	0.43
16:P:14:THR:H	16:P:18:HIS:CB	2.31	0.43
1:A:53:ILE:C	1:A:54:PHE:C	2.86	0.43
1:A:598:ARG:NH2	4:D:546:VAL:HG12	2.26	0.43
1:A:1033:GLU:HB3	1:A:1037:LYS:HE3	2.00	0.43
1:A:1101:HIS:CD2	1:A:1101:HIS:C	2.96	0.43
1:A:1440:TRP:NE1	1:A:1474:ASP:OD2	2.48	0.43
1:A:1637:VAL:HG13	1:A:1653:ILE:CG2	2.46	0.43
1:A:3250:PRO:O	1:A:3250:PRO:CD	2.65	0.43
1:A:3670:LEU:HD23	1:A:3670:LEU:C	2.43	0.43
1:A:4109:PHE:HA	1:A:4113:ILE:HB	1.99	0.43
2:B:722:TYR:CD1	2:B:722:TYR:C	2.97	0.43
2:B:973:THR:HG21	3:C:343:ASN:CA	2.48	0.43
2:B:1046:ASN:N	2:B:1049:LEU:HD12	2.32	0.43
2:B:1563:VAL:C	2:B:1565:ALA:N	2.76	0.43
2:B:1571:GLU:HA	2:B:1571:GLU:OE2	2.17	0.43
2:B:2214:ASN:HD21	2:B:2622:GLN:HB3	1.83	0.43
2:B:3499:THR:HG21	2:B:3507:TRP:HH2	1.82	0.43
3:C:142:ALA:N	3:C:143:PRO:CD	2.81	0.43
3:C:319:ARG:HB2	3:C:321:ARG:HE	1.83	0.43
4:D:172:GLU:OE2	12:L:55:LEU:CG	2.66	0.43
4:D:319:TYR:C	4:D:320:ASP:OD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:12:LYS:HB3	5:E:13:GLU:H	1.47	0.43
5:E:26:ARG:HD2	14:N:97:LEU:HD23	2.00	0.43
5:E:418:SER:HB2	5:E:426:PHE:CE1	2.51	0.43
5:E:428:VAL:O	5:E:428:VAL:HG23	2.18	0.43
6:F:102:LEU:HB3	6:F:106:ALA:HB3	2.00	0.43
8:H:11:ILE:HD12	8:H:14:SER:HB3	2.00	0.43
10:J:90:HIS:HB3	10:J:108:TYR:HB2	2.00	0.43
13:M:6:GLU:HG3	13:M:6:GLU:O	2.18	0.43
13:M:74:PHE:CD1	13:M:74:PHE:C	2.97	0.43
14:N:99:GLN:OE1	14:N:99:GLN:HA	2.19	0.43
15:O:121:TYR:O	15:O:121:TYR:CD1	2.70	0.43
1:A:670:LEU:N	1:A:692:ILE:HD11	2.33	0.43
1:A:845:THR:HG22	1:A:965:CYS:HA	2.01	0.43
1:A:1013:VAL:CA	1:A:1076:LEU:HD11	2.49	0.43
1:A:1452:LYS:HG3	1:A:1458:MET:O	2.18	0.43
1:A:1540:GLN:O	1:A:1544:ILE:N	2.43	0.43
1:A:1634:ILE:HD11	1:A:1637:VAL:HG22	2.00	0.43
1:A:1828:THR:HG21	1:A:1860:GLN:HE21	1.83	0.43
1:A:3212:VAL:CG1	1:A:3335:TRP:CE2	3.01	0.43
1:A:3999:THR:HG21	1:A:4044:GLN:HE21	1.83	0.43
1:A:4215:LEU:C	1:A:4215:LEU:HD23	2.43	0.43
2:B:555:LEU:CD2	2:B:625:LEU:HB3	2.49	0.43
2:B:613:ILE:C	2:B:613:ILE:HD12	2.43	0.43
2:B:736:LEU:HG	2:B:855:SER:C	2.43	0.43
2:B:902:ILE:HG23	2:B:915:PRO:CD	2.48	0.43
2:B:938:PHE:CD2	2:B:956:LEU:CD1	2.96	0.43
2:B:939:ASN:ND2	2:B:939:ASN:O	2.51	0.43
2:B:3774:SER:HB3	2:B:4090:ASP:HB3	1.99	0.43
2:B:4041:LEU:HB3	2:B:4044:ILE:HD11	2.00	0.43
2:B:4044:ILE:HG13	2:B:4076:LEU:HB2	2.00	0.43
3:C:146:ARG:CB	3:C:165:GLY:HA3	2.48	0.43
3:C:155:GLU:C	3:C:155:GLU:CD	2.86	0.43
3:C:2708:GLN:HG2	3:C:2809:ALA:HB1	2.00	0.43
3:C:2743:ASN:HD21	3:C:2786:ASN:CA	2.31	0.43
4:D:265:ARG:HD3	5:E:125:GLN:CA	2.48	0.43
10:J:28:TRP:N	10:J:29:PRO:CD	2.81	0.43
10:J:84:PHE:HB2	11:K:63:GLY:HA3	2.01	0.43
14:N:70:THR:HA	15:O:99:SER:HA	2.01	0.43
16:P:15:SER:H	16:P:18:HIS:CB	2.31	0.43
1:A:326:PRO:C	1:A:376:ASN:CB	2.92	0.43
1:A:739:ARG:HE	1:A:743:LYS:HE3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1149:ILE:HG21	1:A:1187:TRP:CE2	2.54	0.43
1:A:3533:PRO:CD	1:A:3648:THR:HG22	2.49	0.43
1:A:3975:ILE:HA	1:A:3978:ILE:HD12	2.00	0.43
2:B:447:THR:HA	5:E:443:GLN:HB3	2.00	0.43
2:B:500:GLU:HB3	2:B:532:THR:HG21	2.00	0.43
2:B:1101:PHE:CD1	2:B:1102:LEU:HG	2.54	0.43
2:B:3785:ALA:HB2	2:B:3807:THR:HG21	1.99	0.43
3:C:968:MET:HB2	3:C:1026:PHE:CZ	2.53	0.43
3:C:2581:LEU:HD12	3:C:2937:TYR:CZ	2.51	0.43
3:C:2703:LYS:N	3:C:2703:LYS:CD	2.81	0.43
4:D:294:GLN:CD	4:D:297:LYS:HZ1	2.26	0.43
4:D:332:TYR:CZ	4:D:340:PRO:HG3	2.53	0.43
4:D:531:LYS:NZ	4:D:532:TYR:CE1	2.84	0.43
5:E:99:ILE:CG2	6:F:33:LEU:CD1	2.85	0.43
6:F:61:LYS:HD2	8:H:33:ASP:O	2.17	0.43
9:I:70:LYS:HB3	9:I:71:PHE:CD1	2.54	0.43
14:N:66:LYS:HG3	14:N:117:VAL:HG23	1.99	0.43
1:A:57:TYR:CB	1:A:103:ASP:HA	2.48	0.43
1:A:604:ALA:HB2	1:A:698:GLU:CG	2.49	0.43
1:A:805:ARG:NH2	5:E:152:LEU:HD12	2.33	0.43
1:A:879:LEU:HB2	1:A:882:GLU:CG	2.47	0.43
1:A:2171:THR:HG21	1:A:2183:ILE:CG2	2.48	0.43
1:A:3273:TYR:CD1	1:A:3276:SER:CA	3.01	0.43
1:A:3824:ILE:HD13	1:A:3952:LEU:HG	2.00	0.43
2:B:913:PHE:HE1	2:B:987:ARG:CZ	2.31	0.43
2:B:946:ARG:HA	2:B:955:PHE:HZ	1.70	0.43
2:B:1100:ASP:HA	2:B:1103:VAL:HB	2.00	0.43
2:B:1140:LEU:HD21	2:B:1201:TYR:OH	2.18	0.43
2:B:1521:VAL:O	2:B:1525:TRP:N	2.31	0.43
2:B:2269:PRO:HD2	2:B:2615:TYR:CE1	2.54	0.43
3:C:1541:LEU:CD1	3:C:1584:LEU:HD22	2.49	0.43
3:C:1605:ARG:HB2	3:C:1636:ILE:HG21	2.01	0.43
3:C:2717:ALA:C	3:C:2720:PRO:HD2	2.44	0.43
4:D:78:LYS:HB2	4:D:104:GLN:CD	2.43	0.43
4:D:173:CYS:O	13:M:62:GLY:HA2	2.19	0.43
4:D:184:GLY:N	11:K:69:TYR:CD1	2.86	0.43
6:F:81:THR:HA	7:G:124:VAL:H	1.83	0.43
7:G:120:THR:N	9:I:12:ILE:HG21	2.33	0.43
13:M:84:LEU:C	13:M:84:LEU:CD1	2.85	0.43
1:A:330:GLY:O	1:A:380:ARG:HA	2.18	0.43
1:A:871:LEU:CD2	1:A:875:VAL:HG12	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1633:ALA:HB3	1:A:1839:LEU:C	2.42	0.43
1:A:3083:ARG:NH2	1:A:3630:ALA:O	2.51	0.43
1:A:3538:GLN:HA	1:A:3541:ILE:HG22	2.00	0.43
1:A:3853:GLY:HA3	1:A:3879:ALA:HB2	2.00	0.43
1:A:3897:PRO:HA	1:A:3900:ILE:HG22	2.01	0.43
1:A:4534:CYS:SG	1:A:4535:LYS:N	2.92	0.43
2:B:601:GLU:HB2	2:B:602:PRO:HD3	2.00	0.43
2:B:749:LYS:N	2:B:750:PRO:CD	2.82	0.43
2:B:3258:VAL:HG12	2:B:3313:ILE:HD12	2.01	0.43
2:B:3269:LEU:C	2:B:3269:LEU:CD2	2.86	0.43
3:C:159:TYR:N	3:C:159:TYR:CD2	2.86	0.43
3:C:252:ASN:CG	3:C:323:SER:HB3	2.44	0.43
3:C:872:ARG:NH2	3:C:896:LYS:HA	2.32	0.43
3:C:2402:LEU:O	3:C:2406:CYS:SG	2.74	0.43
3:C:2593:ARG:HD2	3:C:2921:LEU:HD11	2.01	0.43
3:C:2923:LEU:HG	3:C:2966:SER:N	2.34	0.43
3:C:3499:ALA:HB1	3:C:3502:ALA:HB3	1.99	0.43
4:D:201:GLN:OE1	9:I:102:ASN:HB2	2.13	0.43
5:E:47:PHE:CA	12:L:88:PHE:CE2	3.02	0.43
5:E:70:ASP:HB3	8:H:68:PHE:HE1	1.83	0.43
5:E:119:CYS:HB2	6:F:88:ILE:CD1	2.47	0.43
5:E:152:LEU:HD22	5:E:486:THR:HG22	2.01	0.43
6:F:65:ARG:HG3	6:F:65:ARG:NH1	2.34	0.43
8:H:59:CYS:O	9:I:85:TYR:CA	2.66	0.43
12:L:77:ILE:N	12:L:77:ILE:CD1	2.81	0.43
16:P:15:SER:O	16:P:16:GLU:C	2.61	0.43
1:A:642:ASN:O	1:A:646:LYS:HG3	2.19	0.43
1:A:644:LEU:HD23	1:A:647:GLN:CD	2.44	0.43
1:A:3335:TRP:CZ3	1:A:3339:ILE:HD11	2.31	0.43
2:B:520:ARG:HD3	2:B:547:LEU:CD2	2.49	0.43
2:B:555:LEU:HG	2:B:625:LEU:HD21	2.00	0.43
2:B:673:PHE:CD1	2:B:677:LEU:HD13	2.45	0.43
2:B:801:ILE:HG22	2:B:802:ILE:HG13	2.00	0.43
2:B:865:VAL:HG21	3:C:169:TYR:HB3	2.00	0.43
2:B:1058:LYS:CB	2:B:1166:GLU:CG	2.94	0.43
2:B:1129:ALA:O	2:B:1132:GLU:HG3	2.18	0.43
2:B:1611:PHE:HE1	2:B:1925:PHE:HZ	1.65	0.43
2:B:3150:VAL:HA	2:B:3707:LEU:HD21	2.01	0.43
2:B:3236:LYS:N	2:B:3237:PRO:CD	2.82	0.43
3:C:124:PRO:HB3	3:C:185:PHE:CE1	2.53	0.43
3:C:859:ILE:CB	3:C:864:MET:SD	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2697:ALA:HB1	3:C:2815:SER:C	2.44	0.43
3:C:2779:GLN:C	3:C:2780:VAL:HG23	2.44	0.43
4:D:303:CYS:HB2	4:D:353:LEU:HD22	2.00	0.43
4:D:439:ILE:HG12	4:D:472:PHE:HZ	1.83	0.43
5:E:26:ARG:O	14:N:98:ILE:HD12	2.18	0.43
5:E:64:GLU:CD	10:J:18:TYR:OH	2.61	0.43
10:J:26:VAL:HG21	10:J:98:PHE:HB3	1.96	0.43
10:J:48:LEU:HD22	10:J:53:ILE:CG1	2.44	0.43
11:K:38:PHE:HB3	11:K:41:LYS:HB2	2.01	0.43
14:N:61:LEU:HD12	14:N:61:LEU:O	2.19	0.43
1:A:853:VAL:HG11	5:E:206:ASN:CB	2.48	0.43
1:A:1041:ASN:HB3	1:A:1047:ASN:ND2	2.34	0.43
1:A:1114:GLN:C	1:A:1118:LEU:CD2	2.79	0.43
1:A:1430:ARG:HG3	1:A:1490:PHE:CE2	2.53	0.43
1:A:1537:GLN:NE2	1:A:1587:MET:HB3	2.34	0.43
1:A:1634:ILE:HD11	1:A:1637:VAL:CG2	2.48	0.43
1:A:2162:GLY:HA2	20:A:4801:ATP:PA	2.58	0.43
1:A:2311:ARG:NH1	1:A:2319:GLU:OE1	2.51	0.43
1:A:3124:ILE:CD1	1:A:3429:TRP:NE1	2.80	0.43
1:A:3294:GLU:HA	1:A:3294:GLU:OE2	2.19	0.43
1:A:3317:PHE:HA	1:A:3333:LEU:CD1	2.48	0.43
2:B:444:LEU:HD13	2:B:523:LEU:HG	2.00	0.43
2:B:804:ARG:NH2	2:B:899:LEU:HB3	2.34	0.43
2:B:935:ASN:CG	3:C:283:THR:HG22	2.44	0.43
2:B:1002:GLN:HG2	2:B:1094:TRP:HE1	1.84	0.43
2:B:1936:MET:HG2	2:B:1966:VAL:HG22	2.00	0.43
3:C:10:LEU:C	3:C:10:LEU:CD1	2.90	0.43
3:C:2079:ILE:HD12	3:C:2124:VAL:HG11	2.01	0.43
3:C:2726:THR:CG2	3:C:2757:LEU:HD13	2.49	0.43
3:C:2740:ILE:CG2	3:C:2744:LYS:CD	2.96	0.43
4:D:94:ARG:HG3	4:D:94:ARG:O	2.18	0.43
4:D:208:TYR:CZ	9:I:22:LYS:HB2	2.52	0.43
4:D:257:GLN:OE1	4:D:257:GLN:HA	2.18	0.43
4:D:552:PRO:CG	4:D:597:TYR:HA	2.49	0.43
4:D:564:ASP:HB2	4:D:583:LYS:HE2	2.01	0.43
5:E:320:THR:O	5:E:320:THR:HG22	2.19	0.43
5:E:378:GLN:CB	5:E:422:SER:HB3	2.43	0.43
6:F:48:ILE:HD11	6:F:98:LEU:HD23	0.44	0.43
7:G:112:SER:HA	7:G:115:ARG:HB2	2.01	0.43
1:A:688:PHE:HB3	1:A:727:TYR:CE2	2.54	0.43
1:A:3106:LYS:CD	1:A:3443:LEU:HD11	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3921:ILE:HG23	1:A:3922:PRO:HD2	1.99	0.43
1:A:4053:MET:HA	1:A:4056:ILE:HG22	2.01	0.43
2:B:425:ASP:HB3	2:B:489:PHE:CZ	2.54	0.43
2:B:555:LEU:HD21	2:B:626:TYR:N	2.33	0.43
2:B:695:PRO:HG2	2:B:698:ALA:HB3	2.01	0.43
2:B:1420:LEU:C	2:B:1424:GLU:HG3	2.43	0.43
2:B:2185:PRO:HG3	2:B:2326:GLU:HB3	1.99	0.43
2:B:3080:LEU:HD12	2:B:3484:LYS:HE2	2.01	0.43
2:B:3422:LEU:HD12	2:B:3716:LEU:CD1	2.48	0.43
2:B:4458:ILE:HD12	2:B:4489:GLU:HA	2.01	0.43
3:C:50:LYS:HG2	3:C:103:THR:HB	2.01	0.43
3:C:143:PRO:HB3	3:C:160:ILE:HD11	2.00	0.43
3:C:2849:VAL:O	3:C:2853:GLU:HG3	2.19	0.43
4:D:183:ARG:CB	11:K:72:TYR:HE2	2.32	0.43
5:E:53:ILE:HG21	12:L:81:ASN:HD21	1.83	0.43
5:E:439:TYR:CD1	5:E:443:GLN:HA	2.54	0.43
9:I:43:GLN:HE21	9:I:97:MET:HE1	1.83	0.43
12:L:73:GLU:HB2	13:M:66:ILE:HD12	1.89	0.43
1:A:669:ALA:HB2	1:A:689:ASP:OD2	2.18	0.42
1:A:770:LEU:HD22	1:A:774:SER:HB3	2.00	0.42
1:A:952:GLN:HE21	1:A:1010:LYS:HZ3	1.66	0.42
1:A:1514:VAL:HG13	1:A:1581:LEU:CD1	2.49	0.42
1:A:1638:THR:CG2	1:A:1655:GLN:NE2	2.30	0.42
1:A:1896:THR:HG21	1:A:1910:ILE:HD13	1.99	0.42
1:A:2723:ILE:HG21	1:A:2776:LYS:HE2	2.00	0.42
1:A:2855:ILE:HG21	1:A:2863:GLY:CA	2.49	0.42
1:A:3110:LEU:HD13	1:A:3440:LYS:HA	2.00	0.42
1:A:4321:GLN:HB2	1:A:4393:ILE:HD12	2.00	0.42
2:B:725:ILE:HG21	2:B:776:LEU:HD21	2.01	0.42
2:B:956:LEU:O	2:B:960:ARG:HG3	2.19	0.42
2:B:1603:LYS:HB3	2:B:1610:TYR:CE1	2.54	0.42
2:B:2058:LEU:HB2	2:B:2129:LEU:HD11	2.01	0.42
2:B:3210:SER:CB	2:B:3364:ASN:OD1	2.51	0.42
2:B:3762:ILE:O	2:B:3765:SER:OG	2.30	0.42
2:B:4188:TYR:CD1	2:B:4188:TYR:C	2.96	0.42
3:C:34:ILE:HD12	3:C:95:MET:HE1	2.01	0.42
3:C:172:LEU:CD1	3:C:173:ALA:O	2.66	0.42
3:C:972:LEU:HD21	3:C:1017:MET:SD	2.59	0.42
3:C:973:LYS:HA	3:C:976:ILE:HD12	2.01	0.42
3:C:1307:LEU:HD13	3:C:1307:LEU:C	2.44	0.42
3:C:2246:ARG:CD	3:C:2344:ARG:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2717:ALA:O	3:C:2803:MET:HE1	2.19	0.42
3:C:3588:VAL:O	3:C:3588:VAL:HG12	2.18	0.42
3:C:3588:VAL:HG11	3:C:3621:TRP:CD2	2.55	0.42
4:D:164:ASN:N	4:D:167:ASN:HB3	2.33	0.42
4:D:599:ASP:HB3	4:D:600:PRO:HD2	2.01	0.42
5:E:117:GLU:HG2	5:E:121:TYR:CE2	2.53	0.42
5:E:448:PHE:HE1	5:E:450:HIS:HB2	1.83	0.42
9:I:78:ILE:HD11	9:I:106:LEU:HB3	1.97	0.42
11:K:5:ALA:CB	11:K:81:TYR:HB2	2.49	0.42
1:A:889:TYR:CD2	7:G:12:SER:CB	3.02	0.42
1:A:1013:VAL:CG1	1:A:1016:PHE:HE1	2.32	0.42
1:A:1419:ILE:O	1:A:1422:SER:OG	2.34	0.42
1:A:3285:ASN:OD1	1:A:3288:LYS:HD2	2.18	0.42
1:A:4121:VAL:HB	1:A:4126:TRP:CG	2.54	0.42
2:B:544:HIS:O	2:B:548:LEU:HG	2.19	0.42
2:B:579:PHE:HA	5:E:430:ARG:HH12	1.83	0.42
2:B:582:MET:SD	2:B:587:GLY:HA3	2.58	0.42
2:B:815:ASP:HB3	2:B:819:LYS:HE3	2.01	0.42
2:B:830:LYS:HA	2:B:943:THR:HB	2.00	0.42
2:B:864:ASN:CB	2:B:947:LEU:HB2	2.33	0.42
2:B:2815:ALA:HB1	2:B:2817:PRO:HD2	2.01	0.42
3:C:90:ILE:HA	3:C:153:PHE:CZ	2.54	0.42
3:C:94:LYS:HG2	3:C:115:LYS:HE2	2.01	0.42
3:C:232:TYR:HB2	3:C:239:TRP:HB3	2.01	0.42
3:C:268:ILE:HG12	3:C:301:TRP:CH2	2.54	0.42
3:C:463:PRO:C	3:C:465:LEU:N	2.77	0.42
3:C:1017:MET:HE2	3:C:1030:VAL:HB	2.01	0.42
3:C:2589:LEU:HD11	3:C:2925:VAL:HG22	2.00	0.42
3:C:2697:ALA:HB1	3:C:2815:SER:O	2.19	0.42
3:C:4000:ARG:HG3	3:C:4021:TYR:HB3	2.00	0.42
4:D:541:LEU:HD12	4:D:545:VAL:CG2	2.47	0.42
5:E:59:HIS:H	10:J:90:HIS:CD2	2.38	0.42
5:E:105:PHE:O	5:E:105:PHE:CD1	2.72	0.42
5:E:162:ARG:HH12	5:E:196:GLN:H	1.66	0.42
5:E:367:LEU:N	5:E:367:LEU:HD23	2.34	0.42
5:E:384:LEU:HG	5:E:417:TRP:CD1	2.53	0.42
5:E:439:TYR:HD1	5:E:443:GLN:HA	1.85	0.42
11:K:81:TYR:CE2	11:K:86:ALA:HB2	2.55	0.42
12:L:93:LEU:CD1	12:L:108:PHE:HB3	2.45	0.42
13:M:5:PRO:HG3	13:M:77:ILE:HG13	2.00	0.42
13:M:20:VAL:HG21	13:M:73:ILE:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:53:TRP:CZ3	13:M:86:LYS:HD2	2.51	0.42
1:A:604:ALA:HB2	1:A:698:GLU:HB3	2.01	0.42
1:A:1142:ILE:HD13	1:A:1190:LEU:CD2	2.47	0.42
1:A:3895:GLU:O	1:A:3899:LEU:HD13	2.19	0.42
2:B:730:LEU:HB2	2:B:733:GLU:HG3	2.01	0.42
2:B:1563:VAL:C	2:B:1565:ALA:H	2.26	0.42
2:B:2885:ASN:HD22	2:B:3018:VAL:HB	1.84	0.42
2:B:3133:ILE:CG1	2:B:3440:LEU:HD13	2.48	0.42
2:B:3658:ILE:HD11	2:B:3748:ARG:HD2	2.00	0.42
2:B:4187:ILE:O	2:B:4212:LEU:HD21	2.19	0.42
2:B:4230:ILE:HG23	2:B:4233:LYS:HB2	2.01	0.42
3:C:1552:LEU:HD21	3:C:1600:GLN:HG2	2.02	0.42
3:C:2152:PHE:CZ	3:C:2192:HIS:CE1	3.08	0.42
3:C:2578:PHE:CZ	3:C:2582:ILE:HD11	2.54	0.42
3:C:2740:ILE:CB	3:C:2744:LYS:O	2.54	0.42
3:C:3874:THR:O	3:C:3878:VAL:HG23	2.20	0.42
4:D:87:THR:HG22	4:D:98:THR:HA	2.00	0.42
4:D:107:VAL:O	4:D:107:VAL:HG13	2.18	0.42
4:D:360:ALA:C	5:E:133:PHE:CZ	2.97	0.42
4:D:509:ASN:ND2	4:D:512:HIS:HB3	2.34	0.42
5:E:58:GLU:OE2	10:J:89:VAL:HG22	2.19	0.42
5:E:334:LEU:HD12	5:E:334:LEU:HA	1.87	0.42
6:F:50:ALA:CB	8:H:83:GLN:HB3	2.49	0.42
10:J:86:CYS:CB	11:K:61:VAL:HG13	2.28	0.42
13:M:77:ILE:HG22	13:M:80:LEU:HD22	2.00	0.42
1:A:837:GLN:NE2	1:A:958:ALA:CA	2.83	0.42
1:A:1433:LEU:HD22	1:A:1478:LEU:CD2	2.50	0.42
1:A:1597:LYS:HG2	1:A:1916:GLN:HE22	1.83	0.42
1:A:2013:ALA:HB2	1:A:2020:ILE:HD13	2.00	0.42
1:A:3191:LYS:HD2	1:A:3360:GLU:HA	2.01	0.42
1:A:3222:GLU:HB2	1:A:3328:ALA:HB1	2.01	0.42
2:B:433:ILE:HG12	2:B:463:PHE:HE1	1.85	0.42
2:B:788:GLN:CD	2:B:788:GLN:C	2.87	0.42
2:B:1102:LEU:HD23	2:B:1105:GLN:CB	2.50	0.42
2:B:1154:GLU:N	2:B:1155:PRO:HD2	2.33	0.42
2:B:2040:LEU:HD13	2:B:2083:LEU:HD22	2.00	0.42
2:B:2260:TRP:CD1	2:B:2302:ILE:HD12	2.54	0.42
2:B:2666:ARG:NH2	20:B:5601:ATP:O3G	2.52	0.42
2:B:3902:TYR:O	2:B:3934:ARG:NH1	2.53	0.42
2:B:4017:LEU:HD12	2:B:4044:ILE:HA	2.01	0.42
2:B:4245:TYR:CD1	2:B:4245:TYR:C	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:7:TRP:CZ3	3:C:352:LEU:HD12	2.54	0.42
3:C:197:PRO:HB2	3:C:200:ARG:NH1	2.34	0.42
3:C:2787:ILE:HG23	3:C:2788:VAL:N	2.35	0.42
3:C:2937:TYR:O	3:C:2941:PHE:CD1	2.73	0.42
3:C:4000:ARG:NH1	3:C:4001:ASN:OD1	2.52	0.42
3:C:4113:VAL:HG12	3:C:4114:PRO:HD2	2.01	0.42
4:D:109:PHE:CZ	15:O:121:TYR:CD2	3.03	0.42
4:D:199:ILE:CG2	9:I:104:ALA:CB	2.85	0.42
4:D:458:CYS:HB2	4:D:477:GLU:HB3	2.02	0.42
4:D:537:ILE:HD11	4:D:651:LYS:CD	2.48	0.42
4:D:634:LYS:HB3	4:D:638:GLU:CD	2.44	0.42
5:E:46:ASN:CB	12:L:90:ALA:HA	2.49	0.42
5:E:55:GLU:HB2	10:J:92:LYS:HG3	2.01	0.42
5:E:121:TYR:CZ	6:F:17:LEU:CD2	3.03	0.42
5:E:286:GLY:CA	5:E:318:GLY:HA2	2.48	0.42
6:F:48:ILE:CD1	6:F:98:LEU:HD22	2.31	0.42
6:F:62:VAL:HG13	6:F:66:ASP:HB2	2.01	0.42
9:I:30:MET:HB3	9:I:35:LEU:CD2	2.50	0.42
9:I:50:SER:HA	9:I:54:LEU:HD12	2.00	0.42
12:L:86:LEU:HD21	13:M:56:ILE:HG12	2.01	0.42
15:O:35:GLN:HA	15:O:38:ILE:HG12	2.01	0.42
17:Q:5:THR:CB	17:Q:37:PRO:O	2.68	0.42
1:A:818:LEU:HB2	1:A:844:LYS:CG	2.45	0.42
1:A:1274:GLY:CA	4:D:164:ASN:HA	2.49	0.42
1:A:1599:PHE:HE2	1:A:1630:LEU:CD2	2.33	0.42
1:A:3117:PHE:HD2	1:A:3429:TRP:HE3	1.68	0.42
1:A:3208:ALA:HB1	1:A:3342:TYR:HB2	2.01	0.42
1:A:3674:LEU:C	1:A:3674:LEU:HD23	2.44	0.42
2:B:35:THR:HA	2:B:36:ALA:HA	1.69	0.42
2:B:224:ASP:CA	2:B:347:ILE:CB	2.96	0.42
2:B:693:GLU:N	2:B:693:GLU:OE2	2.52	0.42
2:B:725:ILE:HD12	2:B:780:VAL:CB	2.49	0.42
2:B:1075:TRP:CE3	2:B:1076:LEU:HB3	2.53	0.42
2:B:3080:LEU:HD13	2:B:3080:LEU:C	2.44	0.42
2:B:3827:LEU:HD21	2:B:4289:LEU:HB3	2.02	0.42
3:C:2738:ILE:HD11	3:C:2740:ILE:O	2.05	0.42
4:D:288:ARG:HH21	4:D:610:GLY:HA3	1.85	0.42
4:D:297:LYS:HZ2	4:D:316:LEU:HD22	1.84	0.42
4:D:462:PHE:HA	4:D:474:VAL:HA	2.01	0.42
4:D:553:TYR:CE1	4:D:595:PHE:CZ	2.93	0.42
4:D:561:ALA:HB2	4:D:566:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:81:PRO:HG2	5:E:95:PHE:CE2	2.55	0.42
5:E:272:MET:SD	5:E:326:VAL:HG23	2.58	0.42
5:E:308:GLU:OE2	5:E:361:LEU:HD23	2.19	0.42
12:L:66:GLU:HG3	12:L:66:GLU:O	2.20	0.42
1:A:1012:LYS:CB	1:A:1071:ILE:HD12	2.39	0.42
1:A:1020:PHE:CE2	1:A:1069:TYR:CD1	3.07	0.42
1:A:1263:TYR:HE2	1:A:1280:TYR:HA	1.84	0.42
1:A:1270:GLU:CB	1:A:1277:ASN:ND2	2.82	0.42
1:A:1521:LEU:O	1:A:1541:PHE:HE2	1.98	0.42
1:A:1570:LEU:HD12	1:A:1570:LEU:N	2.32	0.42
1:A:1597:LYS:HZ1	1:A:1962:ILE:HD11	1.76	0.42
2:B:802:ILE:HD11	2:B:882:LEU:HD11	1.67	0.42
2:B:947:LEU:HD22	2:B:955:PHE:HZ	1.85	0.42
2:B:1511:VAL:N	2:B:1570:VAL:HG13	2.31	0.42
2:B:2696:LEU:HD12	2:B:2707:ALA:HB2	2.01	0.42
3:C:106:LEU:CD2	3:C:133:PRO:HB2	2.49	0.42
3:C:162:GLY:HA2	3:C:203:HIS:CE1	2.54	0.42
3:C:2738:ILE:CB	3:C:2746:PRO:CD	2.96	0.42
3:C:2938:SER:HA	3:C:2949:MET:HE1	2.01	0.42
4:D:141:MET:SD	4:D:155:GLU:HG2	2.60	0.42
4:D:248:MET:SD	7:G:125:PHE:HE2	2.42	0.42
4:D:350:VAL:CG1	4:D:365:VAL:HG13	2.49	0.42
4:D:532:TYR:CE1	4:D:652:MET:HE1	2.54	0.42
5:E:60:SER:HB3	10:J:87:GLN:HA	2.01	0.42
5:E:120:ILE:HG12	6:F:101:GLN:OE1	2.20	0.42
5:E:508:MET:HE2	5:E:508:MET:HB3	1.92	0.42
6:F:107:ILE:CG2	6:F:111:LYS:HE3	2.49	0.42
7:G:64:LEU:HD22	7:G:76:TYR:CE2	2.55	0.42
7:G:125:PHE:HZ	7:G:136:MET:HB3	1.85	0.42
9:I:96:PHE:CD1	9:I:96:PHE:C	2.97	0.42
10:J:40:ALA:HB1	10:J:107:MET:CE	2.50	0.42
10:J:79:PHE:CE2	11:K:68:ALA:HB3	2.55	0.42
12:L:73:GLU:CG	13:M:66:ILE:HD12	2.48	0.42
13:M:75:PHE:CZ	13:M:82:LEU:HD13	2.55	0.42
1:A:889:TYR:CE2	7:G:12:SER:C	2.98	0.42
1:A:937:LEU:HD12	1:A:1081:ILE:CD1	2.50	0.42
1:A:944:LEU:HD13	1:A:1013:VAL:HG11	1.97	0.42
1:A:1126:VAL:O	1:A:1126:VAL:CG1	2.65	0.42
1:A:1926:PHE:CE2	1:A:1934:LEU:HD22	2.54	0.42
1:A:4562:ASN:CG	1:A:4562:ASN:O	2.62	0.42
2:B:4:HIS:C	2:B:6:GLN:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:277:GLU:O	2:B:281:ALA:CB	2.68	0.42
2:B:551:TYR:CE2	2:B:622:VAL:HG12	2.55	0.42
2:B:917:ILE:HG22	2:B:980:GLU:HG3	2.02	0.42
3:C:218:GLY:HA3	3:C:253:LEU:CD2	2.45	0.42
3:C:1048:LEU:C	3:C:1048:LEU:HD13	2.44	0.42
3:C:2213:ARG:HB3	19:C:4702:ADP:H5'2	2.02	0.42
3:C:2775:VAL:CG2	3:C:2824:TYR:CE2	2.98	0.42
3:C:2824:TYR:HA	3:C:2827:ILE:HB	2.02	0.42
3:C:3724:CYS:HB3	3:C:3764:LEU:HD11	2.01	0.42
3:C:4051:THR:HB	3:C:4108:ILE:HG23	2.01	0.42
4:D:312:PHE:O	4:D:312:PHE:CG	2.73	0.42
4:D:460:LEU:HD12	4:D:502:ALA:HB1	2.01	0.42
4:D:526:ARG:HB2	4:D:528:TRP:CZ3	2.47	0.42
5:E:110:LYS:CA	6:F:10:GLN:HG2	2.45	0.42
5:E:179:VAL:HG11	5:E:485:VAL:HG21	2.02	0.42
5:E:429:ARG:HH21	5:E:433:TRP:HB2	1.85	0.42
7:G:78:ILE:HD13	7:G:145:LEU:HG	2.01	0.42
8:H:44:PHE:C	8:H:44:PHE:CD1	2.98	0.42
9:I:79:ILE:O	9:I:79:ILE:HG13	2.20	0.42
10:J:19:LYS:CE	15:O:19:LEU:HD13	2.13	0.42
10:J:38:GLU:CB	15:O:29:PHE:CZ	3.03	0.42
10:J:43:GLU:HG2	10:J:67:TYR:CG	2.55	0.42
11:K:30:LYS:HD3	11:K:30:LYS:O	2.19	0.42
11:K:33:VAL:HA	11:K:42:ILE:HD11	2.01	0.42
11:K:80:PHE:CE1	11:K:87:ILE:HB	2.55	0.42
1:A:601:PRO:HB2	1:A:698:GLU:HG2	1.89	0.42
1:A:621:ILE:HD11	1:A:640:SER:HB2	2.01	0.42
1:A:709:ILE:CG2	1:A:710:PRO:CD	2.78	0.42
1:A:1517:LEU:HB3	1:A:1581:LEU:HD22	2.02	0.42
1:A:3236:ILE:HD11	1:A:3333:LEU:HD12	1.19	0.42
2:B:298:LEU:O	2:B:302:LEU:N	2.33	0.42
2:B:433:ILE:HG23	2:B:463:PHE:CE2	2.36	0.42
2:B:786:SER:CB	2:B:843:VAL:HG22	2.50	0.42
2:B:1234:GLU:CB	2:B:1308:LEU:CB	2.83	0.42
2:B:1595:LEU:C	2:B:1595:LEU:CD2	2.90	0.42
2:B:1771:LEU:HD11	2:B:1787:ILE:HG23	2.01	0.42
2:B:3770:MET:HE2	2:B:3770:MET:HB3	1.89	0.42
2:B:3894:ALA:N	2:B:3895:PRO:HD2	2.34	0.42
3:C:96:LEU:HB3	3:C:113:ILE:HG23	2.00	0.42
3:C:338:PHE:HA	3:C:349:LEU:HD12	2.02	0.42
3:C:1388:THR:HB	3:C:3786:ILE:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2014:CYS:O	3:C:2015:GLY:C	2.62	0.42
3:C:2738:ILE:CG2	3:C:2746:PRO:CG	2.96	0.42
3:C:3057:ILE:HA	3:C:3101:PHE:O	2.19	0.42
3:C:3625:GLN:HA	3:C:3662:SER:OG	2.20	0.42
4:D:114:ASP:O	5:E:42:GLN:HA	2.19	0.42
4:D:360:ALA:CA	5:E:133:PHE:HZ	2.31	0.42
5:E:306:ILE:HG23	5:E:343:LEU:HD12	2.01	0.42
5:E:343:LEU:HD21	5:E:358:ARG:HG2	2.02	0.42
8:H:65:PHE:CE2	8:H:85:ALA:HB3	2.55	0.42
10:J:83:ASN:ND2	11:K:64:LYS:HD2	2.34	0.42
10:J:97:TYR:CD1	10:J:106:LEU:HB2	2.54	0.42
12:L:57:LEU:HD12	12:L:57:LEU:O	2.20	0.42
12:L:86:LEU:HD21	13:M:56:ILE:CG1	2.50	0.42
13:M:75:PHE:CZ	13:M:82:LEU:HD22	2.55	0.42
14:N:115:MET:HG3	15:O:129:CYS:SG	2.60	0.42
1:A:832:SER:O	1:A:836:LEU:HG	2.20	0.42
1:A:935:VAL:CG2	1:A:1017:LEU:CD2	2.89	0.42
1:A:1052:LEU:HB3	1:A:1166:TYR:CZ	2.46	0.42
1:A:1638:THR:CG2	1:A:1655:GLN:CG	2.94	0.42
1:A:1764:LEU:HD12	1:A:1788:GLN:HG3	2.02	0.42
1:A:3192:GLU:N	1:A:3192:GLU:OE1	2.53	0.42
1:A:3273:TYR:CG	1:A:3273:TYR:O	2.73	0.42
1:A:3534:GLN:O	1:A:3536:GLN:N	2.53	0.42
1:A:4415:VAL:HG21	1:A:4438:TRP:CD1	2.55	0.42
2:B:60:ASN:CA	2:B:81:ILE:CB	2.97	0.42
2:B:580:LEU:C	5:E:184:MET:HB3	2.45	0.42
2:B:609:LEU:HD22	2:B:609:LEU:H	1.85	0.42
2:B:679:ARG:C	2:B:683:GLU:HG3	2.33	0.42
2:B:736:LEU:HG	2:B:855:SER:O	2.20	0.42
2:B:969:LEU:HD13	3:C:341:TRP:CZ2	2.46	0.42
2:B:1057:LEU:HD11	2:B:1098:TYR:CD2	2.55	0.42
2:B:1122:ASP:HB2	2:B:1135:HIS:CE1	2.55	0.42
2:B:3147:GLN:HE21	2:B:3427:ALA:HB2	1.85	0.42
2:B:3269:LEU:HD13	2:B:3269:LEU:N	2.33	0.42
3:C:2669:ILE:CA	3:C:2844:LEU:CB	2.96	0.42
3:C:2688:GLN:N	3:C:2689:PRO:HD2	2.35	0.42
3:C:2723:PHE:CZ	3:C:2749:VAL:HG12	2.38	0.42
3:C:2727:ILE:HD12	3:C:2727:ILE:HA	1.94	0.42
3:C:2730:LEU:CD2	3:C:2738:ILE:HD13	2.37	0.42
4:D:94:ARG:CZ	13:M:78:ASN:HD21	2.27	0.42
4:D:622:LYS:CB	4:D:640:LYS:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:20:PHE:CD2	5:E:20:PHE:O	2.73	0.42
5:E:23:THR:CG2	14:N:88:TYR:CE1	2.99	0.42
5:E:216:SER:HB3	5:E:235:CYS:HB3	2.01	0.42
5:E:261:HIS:NE2	5:E:265:VAL:HG22	2.34	0.42
5:E:286:GLY:H	5:E:318:GLY:HA2	1.84	0.42
5:E:426:PHE:CD1	5:E:426:PHE:N	2.87	0.42
5:E:426:PHE:HD2	5:E:436:VAL:HG22	1.83	0.42
8:H:46:LYS:NZ	9:I:86:ASP:C	2.61	0.42
12:L:77:ILE:CD1	13:M:65:ILE:CD1	2.98	0.42
15:O:102:LEU:HD13	15:O:103:TRP:N	2.35	0.42
17:Q:139:LYS:C	17:Q:141:LEU:N	2.76	0.42
1:A:56:TYR:C	1:A:58:GLN:N	2.78	0.42
1:A:95:PHE:H	1:A:124:THR:CB	2.33	0.42
1:A:791:LEU:CG	1:A:795:ILE:HD11	2.50	0.42
1:A:935:VAL:CG1	1:A:944:LEU:CD2	2.98	0.42
1:A:1212:LEU:HD23	1:A:1212:LEU:O	2.19	0.42
1:A:1486:HIS:O	1:A:1489:PRO:HD2	2.20	0.42
1:A:1513:LYS:HD3	1:A:1578:ASN:HD22	1.76	0.42
1:A:3252:GLN:O	1:A:3255:GLU:CD	2.63	0.42
1:A:3279:GLN:OE1	1:A:3279:GLN:HA	2.19	0.42
1:A:3564:LYS:HG3	1:A:3615:MET:HE1	2.01	0.42
1:A:3953:ILE:N	1:A:3953:ILE:HD12	2.35	0.42
1:A:4336:ASN:HB2	1:A:4339:GLU:HB3	2.01	0.42
2:B:591:TRP:CD1	5:E:411:TYR:OH	2.68	0.42
2:B:1511:VAL:O	2:B:1514:VAL:HG12	2.20	0.42
2:B:3134:GLN:C	2:B:3134:GLN:CD	2.88	0.42
2:B:3139:GLY:N	2:B:3433:TRP:HZ3	2.07	0.42
4:D:184:GLY:HA3	11:K:69:TYR:CE1	2.53	0.42
4:D:284:LEU:C	4:D:614:VAL:HG13	2.45	0.42
4:D:518:SER:CB	4:D:528:TRP:HZ3	2.31	0.42
4:D:603:LEU:HD22	4:D:611:VAL:CG1	2.48	0.42
10:J:48:LEU:CD2	10:J:60:ILE:HD13	2.49	0.42
11:K:30:LYS:C	11:K:30:LYS:CD	2.85	0.42
1:A:1396:PRO:O	1:A:1400:TYR:CA	2.68	0.41
1:A:1596:ARG:CZ	1:A:1909:LYS:HE3	2.50	0.41
1:A:2721:MET:HE2	1:A:2783:PHE:HE1	1.85	0.41
1:A:3106:LYS:HB3	1:A:3443:LEU:HD21	1.97	0.41
2:B:655:LYS:CA	2:B:677:LEU:HD11	2.47	0.41
2:B:946:ARG:CA	2:B:955:PHE:CZ	2.81	0.41
2:B:3207:GLU:HG3	2:B:3367:LEU:CB	2.50	0.41
2:B:3654:GLU:OE1	2:B:3748:ARG:NH1	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:287:PHE:HE1	3:C:322:GLU:HB2	1.84	0.41
3:C:1171:ILE:HD11	3:C:1222:MET:SD	2.60	0.41
3:C:2666:CYS:HB2	3:C:2848:THR:N	2.34	0.41
3:C:2738:ILE:CA	3:C:2746:PRO:CG	2.28	0.41
3:C:2934:PHE:HE2	3:C:3001:ILE:HG13	1.85	0.41
3:C:3014:PRO:HD3	3:C:3125:THR:HG22	2.01	0.41
3:C:3073:ALA:O	3:C:3074:ARG:HG2	2.20	0.41
5:E:110:LYS:HA	6:F:10:GLN:CG	2.46	0.41
5:E:117:GLU:HG3	6:F:17:LEU:CD2	2.49	0.41
5:E:189:MET:CB	5:E:193:MET:HE3	2.48	0.41
5:E:253:MET:CB	5:E:296:PHE:CE2	3.03	0.41
5:E:423:GLY:CA	5:E:505:ILE:HD12	2.47	0.41
8:H:8:GLN:N	8:H:9:PRO:HD3	2.35	0.41
9:I:77:CYS:O	9:I:77:CYS:SG	2.78	0.41
12:L:16:LEU:HD21	12:L:19:HIS:HE1	1.85	0.41
12:L:86:LEU:CD1	13:M:54:ASN:HB3	2.36	0.41
13:M:45:PHE:HA	13:M:48:ILE:HG22	2.00	0.41
1:A:748:CYS:SG	1:A:802:ILE:CD1	3.08	0.41
1:A:755:HIS:CE1	1:A:869:TYR:CB	3.02	0.41
1:A:871:LEU:CD2	1:A:872:ASP:N	2.60	0.41
1:A:907:ASN:C	1:A:911:TYR:CD2	2.96	0.41
1:A:1031:ILE:HG23	1:A:1034:SER:CB	2.48	0.41
1:A:1111:LEU:HD11	1:A:1156:VAL:HG21	2.02	0.41
1:A:1163:LEU:CD2	1:A:1167:LEU:HD12	2.50	0.41
1:A:1504:VAL:HG21	1:A:1565:CYS:SG	2.56	0.41
1:A:2676:TRP:CD2	1:A:2699:LEU:HD21	2.54	0.41
1:A:4252:PRO:HG3	1:A:4265:TYR:CG	2.54	0.41
2:B:425:ASP:C	2:B:489:PHE:CE2	2.98	0.41
2:B:531:LEU:HD23	2:B:536:ILE:HG21	2.02	0.41
2:B:609:LEU:H	2:B:609:LEU:CD2	2.33	0.41
2:B:734:GLU:N	2:B:735:PRO:CD	2.80	0.41
2:B:736:LEU:C	2:B:736:LEU:CD2	2.93	0.41
2:B:803:GLU:HG3	2:B:803:GLU:O	2.20	0.41
2:B:1474:MET:SD	2:B:1515:VAL:CG2	3.09	0.41
2:B:1798:ARG:NH2	2:B:2049:ARG:HD2	2.35	0.41
2:B:1912:LYS:HA	2:B:1922:VAL:HG11	2.02	0.41
2:B:2893:GLY:HA2	19:B:5602:ADP:H5'2	2.02	0.41
2:B:3178:VAL:CG1	2:B:3395:LEU:HD11	2.47	0.41
2:B:3268:THR:CG2	2:B:3269:LEU:H	2.20	0.41
2:B:3269:LEU:CD1	2:B:3269:LEU:N	2.82	0.41
2:B:4272:ILE:HG22	2:B:4518:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:34:ILE:CB	3:C:95:MET:HE1	2.46	0.41
3:C:192:PRO:HG3	3:C:232:TYR:HE2	1.84	0.41
3:C:293:VAL:HG23	3:C:304:ILE:HB	2.01	0.41
3:C:2585:PHE:CD1	3:C:2932:SER:OG	2.73	0.41
3:C:2779:GLN:O	3:C:2780:VAL:CG2	2.68	0.41
4:D:288:ARG:NE	4:D:610:GLY:HA3	2.32	0.41
4:D:312:PHE:CZ	4:D:332:TYR:HB2	2.54	0.41
4:D:401:GLN:CG	4:D:462:PHE:CD1	3.03	0.41
5:E:66:VAL:CG1	8:H:72:GLU:HG2	2.49	0.41
5:E:80:TRP:CH2	5:E:92:THR:HA	2.55	0.41
5:E:110:LYS:HG2	6:F:10:GLN:NE2	2.33	0.41
5:E:327:GLU:HB3	5:E:380:PRO:HB3	2.02	0.41
6:F:63:ILE:HG13	6:F:74:ILE:HG22	2.03	0.41
10:J:81:GLY:HA3	11:K:66:PHE:HA	2.02	0.41
12:L:86:LEU:N	12:L:86:LEU:HD22	2.35	0.41
13:M:12:MET:SD	13:M:16:MET:HB3	2.60	0.41
1:A:677:ARG:HG3	1:A:677:ARG:O	2.19	0.41
1:A:907:ASN:HB3	1:A:911:TYR:HE2	1.85	0.41
1:A:1111:LEU:HB3	1:A:1183:LEU:HD11	2.03	0.41
1:A:1426:GLN:O	1:A:1430:ARG:HG3	2.19	0.41
1:A:1448:GLY:O	1:A:1459:LEU:HA	2.20	0.41
1:A:1534:MET:N	1:A:1535:PRO:CD	2.83	0.41
1:A:1924:ASP:HA	1:A:1975:THR:OG1	2.20	0.41
1:A:2227:THR:HG22	1:A:2267:ASN:HB2	2.02	0.41
1:A:2275:GLU:HB2	1:A:2624:ARG:HD3	2.02	0.41
1:A:3442:LYS:CG	1:A:3485:THR:HG23	2.49	0.41
2:B:533:ARG:NH1	2:B:534:PRO:HG3	2.36	0.41
2:B:625:LEU:CD2	2:B:625:LEU:C	2.92	0.41
2:B:736:LEU:CD1	2:B:859:TYR:CG	3.02	0.41
2:B:993:TYR:CE2	2:B:1067:ILE:HG21	2.55	0.41
2:B:3432:ARG:HH12	2:B:3687:LEU:HD11	1.85	0.41
2:B:3555:THR:HG22	2:B:3578:LEU:HD23	2.02	0.41
3:C:276:PHE:CE1	3:C:282:ARG:HG3	2.55	0.41
4:D:110:SER:HA	15:O:96:ARG:HA	2.02	0.41
4:D:163:ARG:NH1	12:L:73:GLU:CD	2.78	0.41
4:D:379:ASN:ND2	5:E:138:SER:OG	2.53	0.41
4:D:470:HIS:HA	4:D:486:ARG:HD3	2.02	0.41
4:D:501:LEU:HD23	4:D:501:LEU:HA	1.91	0.41
5:E:22:ASP:CB	14:N:91:THR:H	2.25	0.41
5:E:94:ARG:HE	5:E:94:ARG:HB2	1.67	0.41
5:E:408:HIS:CB	5:E:412:LEU:HD21	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:51:LEU:HD21	7:G:116:ASP:OD2	2.20	0.41
8:H:91:THR:OG1	9:I:76:GLN:NE2	2.44	0.41
9:I:26:ASN:HB3	9:I:98:PHE:CE2	2.43	0.41
12:L:92:VAL:CG1	12:L:109:LYS:HD3	2.49	0.41
1:A:675:ILE:HA	1:A:687:ASN:CB	2.50	0.41
1:A:762:LYS:NZ	1:A:787:GLY:CA	2.83	0.41
1:A:847:PHE:HZ	1:A:851:LYS:CE	2.29	0.41
1:A:1016:PHE:HD2	1:A:1020:PHE:CZ	2.38	0.41
1:A:3124:ILE:HD11	1:A:3429:TRP:HE1	1.86	0.41
2:B:57:ASN:N	2:B:84:PHE:O	2.53	0.41
2:B:145:LEU:C	2:B:147:ALA:N	2.76	0.41
2:B:178:SER:HA	2:B:197:GLU:CB	2.50	0.41
2:B:673:PHE:HZ	2:B:677:LEU:HB3	1.74	0.41
2:B:954:ASP:HB2	3:C:222:PHE:HA	2.02	0.41
2:B:1603:LYS:HD3	2:B:1610:TYR:CE1	2.55	0.41
2:B:3085:VAL:HG23	2:B:3477:TRP:CZ2	2.56	0.41
2:B:3114:LEU:HD12	2:B:3114:LEU:C	2.45	0.41
3:C:25:THR:OG1	3:C:87:SER:CB	2.67	0.41
3:C:90:ILE:HA	3:C:153:PHE:CE2	2.55	0.41
3:C:106:LEU:H	3:C:106:LEU:CD1	2.33	0.41
3:C:360:PRO:HD2	3:C:361:PRO:HD2	2.00	0.41
3:C:1201:PHE:HD1	3:C:1225:THR:HG21	1.85	0.41
3:C:1687:GLY:O	3:C:1688:ALA:HB3	2.20	0.41
3:C:2725:ALA:HA	3:C:2728:TYR:CD2	2.48	0.41
4:D:89:TYR:CD2	11:K:56:PRO:CB	3.04	0.41
4:D:199:ILE:HG21	9:I:104:ALA:HB2	1.94	0.41
4:D:252:VAL:CB	7:G:149:GLN:HE22	2.32	0.41
4:D:316:LEU:N	4:D:316:LEU:CD1	2.83	0.41
4:D:563:MET:O	4:D:563:MET:SD	2.79	0.41
5:E:45:PRO:C	12:L:88:PHE:O	2.54	0.41
5:E:113:LYS:HE2	6:F:10:GLN:CA	2.48	0.41
5:E:250:ASN:HB3	5:E:251:PRO:HD2	2.01	0.41
5:E:280:VAL:HG22	5:E:322:LEU:HD11	2.02	0.41
5:E:394:TRP:NE1	5:E:401:PRO:CD	2.80	0.41
5:E:498:GLN:HB2	5:E:501:GLU:HG3	2.01	0.41
9:I:24:ILE:CG2	9:I:98:PHE:HD1	2.33	0.41
11:K:60:CYS:O	11:K:60:CYS:SG	2.77	0.41
15:O:30:TYR:H	15:O:31:PRO:HD3	1.81	0.41
1:A:576:TYR:CD1	1:A:620:PRO:C	2.86	0.41
1:A:1814:ILE:HD12	1:A:1814:ILE:N	2.35	0.41
2:B:58:SER:H	2:B:70:LYS:N	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:549:GLU:HA	2:B:549:GLU:OE2	2.19	0.41
2:B:693:GLU:H	2:B:693:GLU:CD	2.27	0.41
2:B:886:ILE:HG21	2:B:972:ILE:HD12	2.01	0.41
2:B:1516:ASN:HB3	2:B:1520:LYS:HE3	2.02	0.41
2:B:3041:ASN:OD1	2:B:3042:ASN:N	2.53	0.41
2:B:4207:LEU:HD23	2:B:4207:LEU:C	2.46	0.41
2:B:4498:LEU:HD21	2:B:4577:VAL:HG13	2.03	0.41
3:C:2005:PRO:HB2	3:C:2145:PHE:CD1	2.55	0.41
3:C:2719:VAL:CG1	3:C:2720:PRO:CD	2.77	0.41
3:C:2934:PHE:HE2	3:C:3001:ILE:CG1	2.33	0.41
3:C:3711:LEU:HD21	3:C:3725:LEU:HD23	2.02	0.41
4:D:331:LEU:HD13	4:D:342:TYR:HB2	2.03	0.41
4:D:550:TRP:HZ3	4:D:556:THR:HA	1.85	0.41
5:E:145:LEU:HD22	5:E:494:LEU:CG	2.43	0.41
5:E:214:SER:HB3	5:E:243:TRP:CZ2	2.53	0.41
5:E:385:SER:CB	5:E:394:TRP:HZ3	2.33	0.41
6:F:33:LEU:N	6:F:33:LEU:CD2	2.84	0.41
7:G:123:LEU:HD23	7:G:123:LEU:HA	1.74	0.41
14:N:84:GLN:NE2	15:O:61:GLU:CB	2.66	0.41
15:O:30:TYR:CZ	15:O:34:ILE:HG13	2.55	0.41
15:O:102:LEU:CD1	15:O:102:LEU:C	2.94	0.41
1:A:1143:ARG:HE	4:D:169:ASN:ND2	2.01	0.41
1:A:1449:ILE:N	1:A:1459:LEU:HD22	2.36	0.41
1:A:1550:LYS:HA	1:A:1550:LYS:HD2	1.75	0.41
2:B:911:ILE:CD1	2:B:991:ASP:OD2	2.68	0.41
2:B:1069:THR:CB	2:B:1070:PRO:CD	2.92	0.41
2:B:1083:MET:SD	2:B:1083:MET:O	2.79	0.41
2:B:1378:LEU:N	2:B:1424:GLU:OE2	2.54	0.41
2:B:1454:GLN:CG	2:B:1473:MET:HE1	2.51	0.41
2:B:2004:MET:HE2	2:B:2014:LEU:HD11	2.02	0.41
2:B:3264:ASN:HA	2:B:3306:ILE:CD1	2.51	0.41
3:C:532:GLY:N	3:C:546:LYS:O	2.54	0.41
3:C:970:LYS:O	3:C:974:LYS:N	2.48	0.41
3:C:2159:SER:HA	3:C:2185:VAL:CG1	2.51	0.41
3:C:2798:PHE:HB2	3:C:2803:MET:SD	2.61	0.41
3:C:3245:HIS:HD2	3:C:3246:SER:O	2.03	0.41
5:E:243:TRP:NE1	5:E:251:PRO:HB3	2.35	0.41
5:E:497:MET:HE3	5:E:497:MET:HB3	1.94	0.41
10:J:86:CYS:SG	11:K:61:VAL:CA	3.09	0.41
1:A:1845:LEU:HD23	1:A:1845:LEU:HA	1.94	0.41
1:A:2945:GLY:HA3	1:A:2992:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2951:LEU:HD11	1:A:2956:ARG:HG3	2.03	0.41
1:A:3577:THR:HG22	1:A:3622:LYS:HB2	2.03	0.41
1:A:3753:ARG:HG2	1:A:3803:ILE:HG23	2.02	0.41
2:B:409:SER:CA	2:B:413:PHE:HB2	2.51	0.41
2:B:439:LEU:HD12	2:B:503:LEU:HD21	2.02	0.41
2:B:599:ILE:CG2	2:B:626:TYR:CD1	3.03	0.41
2:B:603:ILE:HD12	2:B:626:TYR:CE1	2.49	0.41
2:B:2862:LEU:N	2:B:2862:LEU:HD12	2.35	0.41
3:C:71:GLN:HG3	3:C:71:GLN:O	2.21	0.41
3:C:194:GLY:H	3:C:238:GLU:CB	2.33	0.41
3:C:1191:ILE:HG23	3:C:1201:PHE:CE2	2.56	0.41
3:C:2740:ILE:HB	3:C:2744:LYS:CB	2.46	0.41
3:C:3644:LEU:HD11	3:C:3661:ILE:HD11	2.02	0.41
3:C:3871:VAL:O	3:C:3874:THR:OG1	2.37	0.41
4:D:431:ASN:H	5:E:142:VAL:HG12	1.85	0.41
4:D:474:VAL:HG13	4:D:474:VAL:O	2.19	0.41
4:D:561:ALA:CB	4:D:566:VAL:HG22	2.51	0.41
5:E:60:SER:HA	10:J:87:GLN:HA	2.01	0.41
5:E:75:HIS:CD2	5:E:75:HIS:O	2.74	0.41
5:E:198:TYR:CE1	5:E:211:LYS:HG3	2.55	0.41
5:E:317:ILE:HG22	5:E:338:GLU:HB2	2.02	0.41
6:F:87:TYR:CD2	6:F:100:ILE:HG12	2.56	0.41
10:J:102:LYS:HD2	10:J:102:LYS:O	2.21	0.41
11:K:79:PHE:HD1	11:K:88:LEU:HD13	1.85	0.41
12:L:99:LEU:N	12:L:100:PRO:CD	2.84	0.41
13:M:44:GLU:HA	13:M:47:LYS:HZ1	1.85	0.41
1:A:506:ALA:O	1:A:510:PHE:CB	2.68	0.41
1:A:1720:SER:HA	1:A:1780:LYS:HG3	2.03	0.41
1:A:1806:PHE:O	1:A:1809:GLN:N	2.54	0.41
1:A:2316:ARG:HH11	1:A:2372:VAL:HG22	1.85	0.41
1:A:2340:GLN:OE1	1:A:2341:SER:N	2.53	0.41
1:A:3128:THR:HG22	1:A:3422:LEU:CB	2.38	0.41
1:A:3194:ALA:HB3	1:A:3356:VAL:CG2	2.40	0.41
1:A:3532:ASP:HB3	1:A:3647:PHE:HB3	2.02	0.41
2:B:447:THR:HG21	2:B:513:ASP:C	2.46	0.41
2:B:644:TRP:HZ3	2:B:695:PRO:HB3	1.84	0.41
2:B:744:MET:CG	2:B:776:LEU:HD22	2.32	0.41
2:B:1458:PHE:HE1	2:B:1560:MET:CE	2.34	0.41
2:B:2332:MET:N	2:B:2333:PRO:CD	2.83	0.41
2:B:2488:GLU:HG2	2:B:2492:ASN:HD21	1.86	0.41
2:B:2754:THR:HG21	2:B:2770:LEU:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3143:LEU:HD21	2:B:3698:LEU:CD1	2.49	0.41
2:B:3446:SER:HA	2:B:3488:ILE:CA	2.46	0.41
2:B:3478:LEU:HB3	2:B:3479:PRO:HD3	2.02	0.41
3:C:10:LEU:HD23	3:C:65:ASN:O	2.01	0.41
3:C:354:VAL:CG1	3:C:357:ILE:HB	2.49	0.41
3:C:531:GLU:HA	3:C:546:LYS:O	2.21	0.41
3:C:913:MET:HE2	3:C:913:MET:HA	2.03	0.41
3:C:1188:LEU:CD1	3:C:1207:LEU:HD11	2.50	0.41
3:C:4017:LEU:HD12	3:C:4018:CYS:N	2.36	0.41
4:D:199:ILE:HD12	4:D:199:ILE:HA	1.96	0.41
4:D:248:MET:HG2	7:G:138:ALA:HB2	2.03	0.41
5:E:63:THR:HA	10:J:99:TYR:OH	2.21	0.41
5:E:230:GLN:HE21	5:E:242:VAL:HG11	1.86	0.41
6:F:26:PHE:CE1	6:F:49:ALA:N	2.89	0.41
6:F:107:ILE:HG22	6:F:111:LYS:HE3	2.02	0.41
7:G:103:ILE:HD12	7:G:146:ILE:HG21	2.02	0.41
8:H:36:ASN:N	8:H:36:ASN:ND2	2.68	0.41
9:I:63:ILE:CG2	9:I:77:CYS:SG	3.09	0.41
1:A:326:PRO:CB	1:A:372:GLN:C	2.94	0.41
1:A:852:ASN:OD1	1:A:894:PHE:CZ	2.74	0.41
1:A:963:LEU:HD12	1:A:986:TYR:CE1	2.56	0.41
1:A:967:LYS:HB2	1:A:986:TYR:HB2	2.03	0.41
1:A:1143:ARG:NE	4:D:169:ASN:HD22	1.99	0.41
1:A:1436:ILE:CG2	1:A:1474:ASP:OD2	2.66	0.41
1:A:1562:ILE:N	1:A:1563:PRO:HD2	2.36	0.41
1:A:1631:PHE:HB2	1:A:1634:ILE:HG21	2.02	0.41
1:A:1637:VAL:HG12	1:A:1653:ILE:HG23	1.97	0.41
1:A:1918:GLY:HA3	1:A:1967:ILE:HG21	2.01	0.41
1:A:2171:THR:O	1:A:2175:THR:HG23	2.21	0.41
1:A:2367:CYS:HB3	1:A:2386:PHE:CE1	2.56	0.41
1:A:2448:TRP:CZ2	1:A:2450:PRO:HA	2.56	0.41
1:A:3238:ASN:O	1:A:3242:VAL:HG23	2.20	0.41
1:A:3251:ILE:CG1	17:Q:82:ASN:CB	2.98	0.41
2:B:1002:GLN:C	2:B:1004:SER:N	2.79	0.41
2:B:1102:LEU:HD23	2:B:1105:GLN:HB2	2.01	0.41
2:B:1139:LEU:HD13	2:B:1139:LEU:O	2.21	0.41
2:B:1317:LEU:HA	16:P:61:GLU:CA	2.20	0.41
2:B:1437:GLU:O	2:B:1441:GLU:HG3	2.21	0.41
2:B:1440:ILE:O	2:B:1443:LYS:HB2	2.20	0.41
2:B:2267:ILE:HG13	2:B:2311:ALA:HB2	2.03	0.41
2:B:2819:ILE:HD11	2:B:2870:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3116:ASP:HA	2:B:3119:LYS:NZ	2.35	0.41
2:B:3239:VAL:HB	2:B:3284:MET:HE1	2.02	0.41
2:B:3446:SER:HB2	2:B:3489:THR:CB	2.38	0.41
2:B:3458:VAL:CG2	2:B:3498:LEU:HD21	2.51	0.41
2:B:4139:THR:HG21	2:B:4211:TYR:CD1	2.56	0.41
2:B:4148:PRO:O	2:B:4152:ASN:ND2	2.53	0.41
3:C:6:VAL:HG22	3:C:7:TRP:N	2.35	0.41
3:C:195:ASN:O	3:C:239:TRP:CE2	2.73	0.41
3:C:215:MET:HA	3:C:230:MET:O	2.21	0.41
3:C:1299:VAL:O	3:C:1299:VAL:HG12	2.21	0.41
3:C:1694:TRP:CZ3	3:C:1710:LEU:HD13	2.56	0.41
3:C:1742:LEU:HD12	3:C:1780:LEU:HD22	2.03	0.41
3:C:3627:VAL:HG21	3:C:3661:ILE:HG23	2.03	0.41
3:C:4028:TYR:O	3:C:4031:ALA:HB3	2.21	0.41
4:D:286:ILE:HG21	4:D:287:TRP:CZ3	2.56	0.41
4:D:329:ILE:CG1	4:D:350:VAL:HG21	2.51	0.41
4:D:517:ILE:CG1	4:D:550:TRP:NE1	2.73	0.41
4:D:537:ILE:CD1	4:D:647:TYR:CE2	3.04	0.41
4:D:573:VAL:CB	4:D:579:LEU:HD21	2.51	0.41
5:E:166:GLU:CB	5:E:220:ASN:HA	2.51	0.41
5:E:324:TYR:CE2	5:E:330:PRO:HA	2.56	0.41
5:E:457:LEU:HD12	5:E:480:ASP:OD1	2.21	0.41
5:E:497:MET:HE1	5:E:501:GLU:HB2	2.03	0.41
6:F:36:HIS:CD2	6:F:38:LYS:HB2	2.56	0.41
7:G:85:VAL:HG22	7:G:100:ALA:HB1	2.02	0.41
7:G:145:LEU:HD23	7:G:146:ILE:N	2.36	0.41
8:H:65:PHE:HB2	9:I:80:GLY:HA3	1.90	0.41
9:I:11:ASP:HB2	9:I:14:GLU:CG	2.50	0.41
9:I:24:ILE:HD13	9:I:98:PHE:CE1	2.43	0.41
10:J:65:LYS:C	10:J:65:LYS:CD	2.94	0.41
12:L:60:PHE:CD1	12:L:60:PHE:C	2.99	0.41
13:M:23:ILE:HG22	13:M:41:ILE:CD1	2.51	0.41
15:O:69:GLU:HA	15:O:69:GLU:OE1	2.21	0.41
1:A:95:PHE:N	1:A:124:THR:CB	2.84	0.41
1:A:739:ARG:HH11	1:A:743:LYS:HZ2	1.64	0.41
1:A:1126:VAL:CG1	1:A:1201:TYR:CE1	3.03	0.41
1:A:1441:ASN:N	1:A:1562:ILE:HD11	2.36	0.41
1:A:1684:LEU:HD23	1:A:1684:LEU:HA	1.93	0.41
1:A:2576:LEU:HD13	1:A:2621:ILE:HG13	2.03	0.41
1:A:2793:VAL:HG23	1:A:2804:ALA:HB2	2.02	0.41
1:A:2855:ILE:HG21	1:A:2863:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3350:LYS:O	1:A:3354:ILE:N	2.54	0.41
1:A:4415:VAL:HG22	1:A:4435:LEU:HA	2.01	0.41
1:A:4462:PHE:CD1	1:A:4524:VAL:HG13	2.56	0.41
2:B:453:THR:CG2	5:E:511:ARG:HD2	2.51	0.41
2:B:479:ASN:HD22	2:B:482:GLU:CD	2.24	0.41
2:B:579:PHE:CE2	5:E:369:PRO:HG2	2.48	0.41
2:B:1107:ARG:NH2	2:B:1172:LYS:HE2	2.25	0.41
2:B:1123:GLY:HA2	2:B:1197:PHE:HE1	1.68	0.41
2:B:1492:LYS:HZ1	2:B:3606:GLN:CB	2.34	0.41
2:B:2366:ALA:HA	2:B:2432:LEU:HD13	2.02	0.41
3:C:2698:LEU:HD12	3:C:2820:ILE:HD11	2.02	0.41
3:C:2719:VAL:HA	3:C:2751:TRP:CE3	2.56	0.41
3:C:2726:THR:CB	3:C:2729:LEU:CD1	2.71	0.41
4:D:75:LEU:CG	15:O:102:LEU:CD1	2.93	0.41
4:D:107:VAL:CA	15:O:98:ALA:HA	2.33	0.41
4:D:252:VAL:HG21	7:G:147:VAL:HG11	2.03	0.41
4:D:294:GLN:CG	4:D:297:LYS:CE	2.99	0.41
4:D:412:TYR:CB	4:D:428:LEU:HD22	2.50	0.41
5:E:58:GLU:HB2	10:J:89:VAL:HA	1.92	0.41
5:E:119:CYS:CB	6:F:88:ILE:HG21	2.51	0.41
8:H:54:HIS:NE2	18:R:62:LYS:CA	2.57	0.41
8:H:61:VAL:N	9:I:84:ALA:O	2.28	0.41
9:I:19:MET:CB	9:I:22:LYS:CE	2.98	0.41
14:N:72:ILE:CG1	15:O:97:ILE:HG12	2.47	0.41
15:O:52:ASP:H	15:O:53:PRO:CD	2.27	0.41
1:A:1116:LYS:HD3	1:A:1116:LYS:O	2.21	0.40
1:A:1514:VAL:HG13	1:A:1581:LEU:HD13	2.03	0.40
1:A:2033:LEU:HD23	1:A:2097:LEU:HD22	2.03	0.40
1:A:2668:LEU:HD11	1:A:2729:LEU:CD2	2.51	0.40
2:B:511:PHE:CE2	2:B:520:ARG:HD3	2.56	0.40
2:B:511:PHE:CZ	2:B:546:VAL:HB	2.56	0.40
2:B:531:LEU:HD22	2:B:536:ILE:HG22	2.02	0.40
2:B:805:LYS:HD3	2:B:809:MET:CE	2.50	0.40
2:B:2879:LEU:O	2:B:3017:LYS:NZ	2.52	0.40
2:B:3242:MET:HA	2:B:3245:LEU:CG	2.50	0.40
2:B:3480:ASP:OD1	2:B:3480:ASP:C	2.65	0.40
2:B:4189:ILE:HG22	2:B:4194:MET:HE2	2.03	0.40
3:C:209:ALA:HA	3:C:264:TRP:CG	2.56	0.40
3:C:1328:LEU:HG	3:C:1333:VAL:HG11	2.03	0.40
3:C:2850:LYS:O	3:C:2854:VAL:CG2	2.67	0.40
4:D:80:PRO:HD2	15:O:103:TRP:HZ2	1.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:134:LYS:HB2	4:D:134:LYS:HZ2	1.84	0.40
4:D:294:GLN:CD	4:D:297:LYS:CE	2.77	0.40
4:D:294:GLN:CG	4:D:297:LYS:HE2	2.51	0.40
4:D:422:ARG:HB3	4:D:422:ARG:HH21	1.85	0.40
4:D:543:MET:HG3	4:D:563:MET:HB3	2.03	0.40
4:D:553:TYR:CD1	4:D:595:PHE:HE2	2.39	0.40
6:F:35:ARG:HH21	6:F:41:SER:HB2	1.80	0.40
8:H:52:ARG:HA	18:R:63:ASN:HA	1.99	0.40
1:A:607:ILE:HD13	1:A:655:PHE:CB	2.52	0.40
1:A:614:PHE:CZ	1:A:648:LEU:HD11	2.56	0.40
1:A:894:PHE:CD1	1:A:972:TRP:CH2	3.09	0.40
1:A:955:ILE:HD12	1:A:955:ILE:HA	1.93	0.40
1:A:1260:TYR:CD2	1:A:1260:TYR:C	2.99	0.40
1:A:1599:PHE:HB3	1:A:1602:PHE:CD2	2.56	0.40
1:A:3333:LEU:HD23	1:A:3333:LEU:HA	1.84	0.40
1:A:3654:LEU:HD23	1:A:3755:SER:HA	2.02	0.40
1:A:3749:PRO:HA	1:A:3752:ILE:HG22	2.03	0.40
1:A:4331:LEU:HD11	1:A:4382:VAL:HG12	2.03	0.40
2:B:426:ILE:HG12	2:B:485:PHE:HZ	1.84	0.40
2:B:500:GLU:CG	2:B:532:THR:CG2	2.90	0.40
2:B:736:LEU:CG	2:B:856:TRP:HA	2.52	0.40
2:B:787:LEU:O	2:B:791:HIS:CD2	2.69	0.40
2:B:1001:GLU:O	2:B:1094:TRP:HZ2	2.01	0.40
2:B:1208:LYS:HE3	2:B:1208:LYS:N	2.36	0.40
2:B:1456:PHE:CE2	2:B:1567:PRO:O	2.74	0.40
2:B:1488:LYS:HA	2:B:1494:VAL:CB	2.51	0.40
2:B:3160:LYS:HE3	2:B:3412:CYS:SG	2.61	0.40
3:C:9:GLN:HB2	3:C:350:TRP:CZ2	2.56	0.40
3:C:2242:HIS:HB2	3:C:2289:LEU:CD1	2.50	0.40
3:C:2581:LEU:HD11	3:C:2937:TYR:CE2	2.55	0.40
3:C:2743:ASN:ND2	3:C:2785:VAL:CG1	2.45	0.40
4:D:141:MET:HB2	4:D:158:ILE:HD13	2.01	0.40
4:D:199:ILE:CG1	9:I:104:ALA:HB2	2.51	0.40
4:D:379:ASN:CG	5:E:138:SER:OG	2.64	0.40
5:E:84:VAL:HG13	5:E:91:GLU:HB3	2.03	0.40
5:E:121:TYR:OH	6:F:17:LEU:HD21	2.21	0.40
5:E:214:SER:HB2	5:E:215:PRO:HD2	2.02	0.40
5:E:405:THR:HG23	5:E:405:THR:O	2.20	0.40
9:I:49:ASN:HD21	9:I:59:ALA:HA	1.86	0.40
12:L:24:ASN:CG	12:L:31:LEU:HD22	2.47	0.40
1:A:688:PHE:CB	1:A:727:TYR:CD2	3.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:854:GLU:CG	5:E:205:PRO:CG	2.86	0.40
1:A:935:VAL:HG13	1:A:944:LEU:HD23	2.03	0.40
1:A:1126:VAL:HG13	1:A:1131:SER:CB	2.51	0.40
1:A:1468:LEU:HA	1:A:1471:LEU:HD12	2.03	0.40
1:A:1586:LYS:HB3	1:A:1586:LYS:HE2	1.65	0.40
1:A:3049:LEU:HD12	1:A:3103:TYR:CZ	2.57	0.40
1:A:3233:ILE:CD1	1:A:3329:ALA:HB2	2.51	0.40
1:A:3833:LYS:O	1:A:3837:THR:HG23	2.21	0.40
2:B:87:LYS:CB	2:B:103:ASN:HA	2.51	0.40
2:B:444:LEU:CD2	2:B:526:ASN:CB	2.99	0.40
2:B:599:ILE:CG2	2:B:626:TYR:HD1	2.33	0.40
2:B:3288:GLN:NE2	2:B:3288:GLN:CA	2.80	0.40
2:B:3288:GLN:CA	2:B:3288:GLN:HE21	2.33	0.40
3:C:72:ILE:HG13	3:C:119:TYR:CE1	2.57	0.40
3:C:336:ILE:HG13	3:C:351:ALA:CB	2.51	0.40
3:C:1983:THR:CA	19:C:4702:ADP:N6	2.85	0.40
3:C:2414:LEU:HD13	3:C:2415:PHE:N	2.36	0.40
3:C:2792:TYR:C	3:C:2792:TYR:CD2	2.98	0.40
4:D:386:TYR:HB3	4:D:433:LEU:CD1	2.51	0.40
4:D:603:LEU:HD23	4:D:613:LEU:HB3	2.04	0.40
5:E:123:ASN:HB2	6:F:101:GLN:NE2	2.33	0.40
5:E:376:SER:HB3	5:E:417:TRP:CD2	2.56	0.40
5:E:556:GLU:N	5:E:556:GLU:OE1	2.55	0.40
7:G:74:LEU:HD22	7:G:148:ILE:HG22	2.03	0.40
9:I:89:VAL:HG21	9:I:94:LEU:HB2	2.03	0.40
11:K:89:LEU:C	11:K:89:LEU:CD1	2.92	0.40
1:A:777:ILE:O	1:A:780:TYR:HB3	2.21	0.40
1:A:944:LEU:HD21	1:A:1017:LEU:HD22	2.00	0.40
1:A:1514:VAL:HG12	1:A:1548:TRP:HZ3	1.86	0.40
1:A:2498:ALA:N	19:A:4701:ADP:O2B	2.52	0.40
2:B:603:ILE:CD1	2:B:626:TYR:CE2	3.05	0.40
2:B:744:MET:HE1	2:B:773:VAL:N	2.36	0.40
2:B:1530:ASN:O	2:B:1530:ASN:OD1	2.38	0.40
2:B:2622:GLN:OE1	2:B:2625:ARG:NH1	2.54	0.40
2:B:3114:LEU:HD12	2:B:3114:LEU:O	2.22	0.40
2:B:3413:GLN:HA	2:B:3413:GLN:OE1	2.21	0.40
3:C:96:LEU:C	3:C:96:LEU:CD1	2.93	0.40
3:C:114:LEU:HD22	3:C:115:LYS:N	2.37	0.40
3:C:289:ASP:HB2	3:C:318:PRO:O	2.21	0.40
3:C:354:VAL:CG2	3:C:357:ILE:CG1	2.85	0.40
3:C:2059:LEU:HD13	3:C:2067:TYR:CG	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:3460:ASN:HB3	3:C:3466:ALA:HB1	2.03	0.40
4:D:289:PHE:HB3	4:D:332:TYR:CE1	2.56	0.40
5:E:59:HIS:CB	10:J:90:HIS:NE2	2.84	0.40
6:F:11:LEU:HD21	6:F:23:TYR:CE1	2.29	0.40
6:F:51:LEU:HD21	7:G:116:ASP:CG	2.45	0.40
8:H:16:MET:HE3	8:H:20:MET:SD	2.62	0.40
8:H:70:THR:H	9:I:76:GLN:CG	2.33	0.40
10:J:65:LYS:HD3	10:J:65:LYS:O	2.21	0.40
13:M:45:PHE:HA	13:M:48:ILE:CG2	2.51	0.40
15:O:41:LEU:HD22	15:O:70:LYS:HE2	2.02	0.40
1:A:674:LEU:HD23	1:A:770:LEU:HB2	2.03	0.40
1:A:1012:LYS:HB2	1:A:1071:ILE:HG21	1.95	0.40
1:A:1095:GLN:HA	1:A:1095:GLN:OE1	2.22	0.40
1:A:2196:MET:O	1:A:2211:VAL:N	2.55	0.40
1:A:2476:ILE:HG22	1:A:2477:LEU:HD23	2.03	0.40
1:A:2602:MET:N	1:A:2602:MET:SD	2.95	0.40
1:A:3229:PRO:C	1:A:3233:ILE:HG21	2.47	0.40
1:A:4053:MET:HE3	1:A:4086:LEU:CD2	2.52	0.40
1:A:4347:LEU:HD11	1:A:4368:LEU:HD23	2.03	0.40
1:A:4501:VAL:HG12	1:A:4562:ASN:HA	2.03	0.40
2:B:655:LYS:HE3	2:B:708:TYR:HH	1.73	0.40
2:B:1317:LEU:CA	16:P:61:GLU:CA	2.81	0.40
2:B:2151:THR:HA	2:B:2155:MET:HB2	2.02	0.40
3:C:79:PRO:HG3	3:C:121:TRP:CD2	2.56	0.40
3:C:2740:ILE:CG2	3:C:2744:LYS:HD2	2.51	0.40
3:C:2745:LYS:HG3	3:C:2749:VAL:HG21	1.90	0.40
3:C:3013:ASP:N	3:C:3013:ASP:OD1	2.54	0.40
3:C:3225:ARG:N	3:C:3226:PRO:CD	2.84	0.40
3:C:3457:SER:O	3:C:3462:ASN:N	2.55	0.40
5:E:530:LYS:HD2	5:E:531:ARG:NH1	2.37	0.40
8:H:12:LYS:CG	8:H:80:TYR:HE2	2.15	0.40
8:H:16:MET:HE3	8:H:20:MET:CG	2.51	0.40
8:H:58:HIS:HB3	9:I:87:VAL:HG22	2.03	0.40
8:H:62:GLY:HA3	9:I:83:TYR:HB3	2.04	0.40
10:J:80:PHE:O	11:K:67:ASN:O	2.40	0.40
11:K:33:VAL:HA	11:K:42:ILE:CD1	2.52	0.40
11:K:78:ILE:HG22	11:K:89:LEU:HD11	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	4391/4615 (95%)	4176 (95%)	190 (4%)	25 (1%)	21	58
2	B	4498/4588 (98%)	4258 (95%)	203 (4%)	37 (1%)	16	53
3	C	3923/3947 (99%)	3698 (94%)	202 (5%)	23 (1%)	21	58
4	D	569/595 (96%)	546 (96%)	16 (3%)	7 (1%)	10	43
5	E	551/557 (99%)	531 (96%)	18 (3%)	2 (0%)	30	67
6	F	126/128 (98%)	120 (95%)	6 (5%)	0	100	100
7	G	147/151 (97%)	134 (91%)	7 (5%)	6 (4%)	2	18
8	H	89/91 (98%)	88 (99%)	1 (1%)	0	100	100
9	I	104/106 (98%)	100 (96%)	3 (3%)	1 (1%)	12	47
10	J	93/95 (98%)	90 (97%)	3 (3%)	0	100	100
11	K	88/90 (98%)	85 (97%)	3 (3%)	0	100	100
12	L	109/111 (98%)	104 (95%)	4 (4%)	1 (1%)	14	49
13	M	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
14	N	112/114 (98%)	105 (94%)	7 (6%)	0	100	100
15	O	118/120 (98%)	112 (95%)	4 (3%)	2 (2%)	7	35
16	P	103/112 (92%)	90 (87%)	7 (7%)	6 (6%)	1	14
17	Q	190/192 (99%)	174 (92%)	13 (7%)	3 (2%)	7	37
18	R	148/150 (99%)	121 (82%)	19 (13%)	8 (5%)	1	15
All	All	15444/15849 (97%)	14615 (95%)	708 (5%)	121 (1%)	18	53

All (121) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	101	PRO
1	A	125	PRO
1	A	127	THR
1	A	151	ILE

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Mol	Chain	Res	Type
1	A	1171	ILE
1	A	1172	THR
1	A	1348	GLN
2	B	6	GLN
2	B	17	ARG
2	B	100	THR
2	B	307	PRO
2	B	533	ARG
2	B	897	SER
2	B	1127	ASN
2	B	1567	PRO
2	B	3267	ILE
2	B	4257	LYS
3	C	2013	GLY
3	C	3619	GLY
4	D	234	GLN
4	D	397	ASP
4	D	398	PRO
7	G	19	GLN
7	G	49	ASN
16	P	36	TYR
16	P	37	PRO
17	Q	19	PRO
18	R	43	ILE
18	R	59	VAL
18	R	106	GLY
1	A	8	LYS
1	A	27	ILE
1	A	28	VAL
1	A	3535	GLY
1	A	4430	TRP
1	A	4562	ASN
2	B	60	ASN
2	B	136	PRO
2	B	799	VAL
2	B	917	ILE
3	C	442	ILE
3	C	529	GLU
3	C	1549	ALA
3	C	2015	GLY
3	C	2247	THR
3	C	2796	PRO

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Mol	Chain	Res	Type
3	C	3054	SER
3	C	3983	ALA
3	C	4090	ASP
3	C	4106	PRO
7	G	20	ARG
7	G	38	LYS
9	I	51	ALA
16	P	62	LYS
18	R	66	LEU
1	A	197	ILE
1	A	1391	LEU
1	A	4563	LYS
2	B	103	ASN
2	B	1124	ILE
3	C	357	ILE
3	C	861	SER
3	C	1170	ALA
3	C	2366	LYS
12	L	15	PRO
17	Q	140	ASP
18	R	65	GLY
1	A	57	TYR
1	A	106	LYS
1	A	1745	ASN
1	A	4190	SER
1	A	4538	LYS
2	B	24	ILE
2	B	47	ASP
2	B	138	ASN
2	B	952	PRO
2	B	1856	ILE
2	B	3302	ILE
3	C	1277	ASP
3	C	4142	ALA
5	E	45	PRO
7	G	25	ILE
16	P	63	ARG
17	Q	129	ILE
18	R	121	PHE
1	A	3488	LEU
1	A	3585	ASN
2	B	5	SER

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Mol	Chain	Res	Type
2	B	659	THR
2	B	1003	ILE
2	B	1333	ILE
2	B	1499	ASP
2	B	1863	TYR
2	B	4152	ASN
3	C	471	ILE
3	C	2715	PRO
4	D	588	PRO
5	E	263	GLU
15	O	52	ASP
16	P	83	HIS
16	P	119	PRO
18	R	6	MET
18	R	104	THR
1	A	4618	SER
2	B	1069	THR
2	B	1680	GLY
2	B	1947	GLY
3	C	881	ILE
3	C	2795	MET
15	O	30	TYR
1	A	1856	ILE
3	C	1401	PRO
7	G	139	PRO
2	B	146	VAL
2	B	477	ILE
2	B	3248	PRO
4	D	435	PRO
4	D	513	PRO
2	B	4148	PRO
4	D	149	PRO
2	B	811	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	3430/4191 (82%)	3329 (97%)	101 (3%)	37	58
2	B	3525/4135 (85%)	3437 (98%)	88 (2%)	42	62
3	C	3139/3505 (90%)	3084 (98%)	55 (2%)	51	67
4	D	511/545 (94%)	497 (97%)	14 (3%)	39	59
5	E	488/496 (98%)	469 (96%)	19 (4%)	28	50
6	F	105/105 (100%)	103 (98%)	2 (2%)	50	66
7	G	86/141 (61%)	86 (100%)	0	100	100
8	H	82/82 (100%)	81 (99%)	1 (1%)	63	73
9	I	91/91 (100%)	89 (98%)	2 (2%)	45	64
10	J	82/82 (100%)	81 (99%)	1 (1%)	63	73
11	K	80/80 (100%)	78 (98%)	2 (2%)	42	62
12	L	90/99 (91%)	87 (97%)	3 (3%)	33	55
13	M	78/78 (100%)	78 (100%)	0	100	100
14	N	84/101 (83%)	82 (98%)	2 (2%)	43	63
15	O	108/108 (100%)	107 (99%)	1 (1%)	70	76
17	Q	11/176 (6%)	11 (100%)	0	100	100
All	All	11990/14015 (86%)	11699 (98%)	291 (2%)	43	63

All (291) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	674	LEU
1	A	692	ILE
1	A	696	ILE
1	A	761	LEU
1	A	763	LEU
1	A	794	LEU
1	A	816	VAL
1	A	818	LEU
1	A	871	LEU
1	A	989	ILE
1	A	1081	ILE
1	A	1130	ASP
1	A	1136	MET
1	A	1153	PHE
1	A	1519	THR
1	A	1536	LEU

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Mol	Chain	Res	Type
1	A	1540	GLN
1	A	1550	LYS
1	A	1559	LYS
1	A	1561	VAL
1	A	1564	CYS
1	A	1567	ASN
1	A	1577	LEU
1	A	1581	LEU
1	A	1585	GLN
1	A	1589	GLU
1	A	1605	VAL
1	A	1609	THR
1	A	1618	SER
1	A	1631	PHE
1	A	1634	ILE
1	A	1635	THR
1	A	1644	ASP
1	A	1681	GLU
1	A	1695	LEU
1	A	1711	LEU
1	A	1758	LYS
1	A	1780	LYS
1	A	1792	LYS
1	A	1880	GLU
1	A	1922	CYS
1	A	1995	ARG
1	A	2011	LYS
1	A	2025	LYS
1	A	2026	LYS
1	A	2034	CYS
1	A	2084	SER
1	A	2089	ASP
1	A	2098	LEU
1	A	2122	GLU
1	A	2130	LEU
1	A	2164	SER
1	A	2220	ASN
1	A	2254	LEU
1	A	2290	GLN
1	A	2294	SER
1	A	2337	ILE
1	A	2340	GLN

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Mol	Chain	Res	Type
1	A	2418	ILE
1	A	2426	GLU
1	A	2434	SER
1	A	2449	VAL
1	A	2487	ASN
1	A	2679	VAL
1	A	2729	LEU
1	A	2875	SER
1	A	2921	THR
1	A	3043	ILE
1	A	3066	VAL
1	A	3149	THR
1	A	3185	GLU
1	A	3191	LYS
1	A	3192	GLU
1	A	3203	PRO
1	A	3267	LEU
1	A	3306	LEU
1	A	3345	LYS
1	A	3354	ILE
1	A	3495	ILE
1	A	3637	GLU
1	A	3707	LEU
1	A	3911	ILE
1	A	3973	TYR
1	A	4130	ILE
1	A	4138	SER
1	A	4155	TYR
1	A	4187	LEU
1	A	4194	VAL
1	A	4201	VAL
1	A	4209	ASP
1	A	4287	THR
1	A	4317	GLU
1	A	4328	LEU
1	A	4342	GLU
1	A	4396	GLN
1	A	4465	THR
1	A	4497	SER
1	A	4504	SER
1	A	4524	VAL
1	A	4562	ASN

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Mol	Chain	Res	Type
1	A	4588	ASP
2	B	499	LEU
2	B	654	ASP
2	B	690	LEU
2	B	766	ILE
2	B	799	VAL
2	B	866	ILE
2	B	926	VAL
2	B	1080	LEU
2	B	1103	VAL
2	B	1153	VAL
2	B	1176	VAL
2	B	1183	THR
2	B	1186	PRO
2	B	1201	TYR
2	B	1208	LYS
2	B	1213	PRO
2	B	1623	ASN
2	B	1734	THR
2	B	1735	THR
2	B	1758	LYS
2	B	1772	ILE
2	B	2116	THR
2	B	2121	ILE
2	B	2126	ILE
2	B	2128	ASP
2	B	2219	THR
2	B	2231	LYS
2	B	2252	TYR
2	B	2305	ILE
2	B	2427	ASP
2	B	2514	THR
2	B	2534	ILE
2	B	2574	LEU
2	B	2617	THR
2	B	2655	ASN
2	B	2667	LEU
2	B	2690	SER
2	B	2696	LEU
2	B	2767	LEU
2	B	2776	LYS
2	B	2812	ASN

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Mol	Chain	Res	Type
2	B	2814	ILE
2	B	2862	LEU
2	B	2944	ARG
2	B	2959	LEU
2	B	2963	ASN
2	B	2966	LEU
2	B	2975	PHE
2	B	3031	ILE
2	B	3077	SER
2	B	3107	THR
2	B	3114	LEU
2	B	3119	LYS
2	B	3133	ILE
2	B	3222	PRO
2	B	3269	LEU
2	B	3288	GLN
2	B	3343	ILE
2	B	3353	VAL
2	B	3355	PRO
2	B	3377	VAL
2	B	3461	ILE
2	B	3540	GLN
2	B	3632	HIS
2	B	3644	ILE
2	B	3648	VAL
2	B	3756	MET
2	B	3770	MET
2	B	3800	LEU
2	B	3850	LEU
2	B	3909	ASP
2	B	3915	ASP
2	B	3952	GLN
2	B	4012	PHE
2	B	4047	MET
2	B	4076	LEU
2	B	4149	LYS
2	B	4328	PHE
2	B	4329	ASN
2	B	4334	LYS
2	B	4348	VAL
2	B	4408	LYS
2	B	4454	ILE

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Mol	Chain	Res	Type
2	B	4464	TYR
2	B	4482	GLU
2	B	4513	SER
2	B	4563	LEU
2	B	4570	ARG
3	C	10	LEU
3	C	39	LEU
3	C	85	HIS
3	C	106	LEU
3	C	113	ILE
3	C	114	LEU
3	C	177	LEU
3	C	214	LEU
3	C	232	TYR
3	C	336	ILE
3	C	346	LEU
3	C	352	LEU
3	C	354	VAL
3	C	1098	CYS
3	C	1318	ASP
3	C	1321	SER
3	C	1358	ILE
3	C	1453	CYS
3	C	1499	CYS
3	C	1526	ILE
3	C	1660	ASP
3	C	1884	CYS
3	C	1981	ASN
3	C	2016	LYS
3	C	2043	ASN
3	C	2122	THR
3	C	2177	ILE
3	C	2224	LEU
3	C	2225	SER
3	C	2244	CYS
3	C	2265	ILE
3	C	2295	ILE
3	C	2406	CYS
3	C	2432	ASN
3	C	2488	ILE
3	C	2670	LYS
3	C	2820	ILE

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Mol	Chain	Res	Type
3	C	3058	GLU
3	C	3059	ASN
3	C	3062	GLU
3	C	3115	ILE
3	C	3131	LEU
3	C	3405	ARG
3	C	3579	VAL
3	C	3602	GLN
3	C	3787	MET
3	C	3793	THR
3	C	3844	LYS
3	C	3868	CYS
3	C	3918	VAL
3	C	3986	SER
3	C	3997	LEU
3	C	4050	GLN
3	C	4113	VAL
3	C	4146	MET
4	D	66	LEU
4	D	75	LEU
4	D	79	ASN
4	D	115	TYR
4	D	134	LYS
4	D	172	GLU
4	D	180	ILE
4	D	314	VAL
4	D	353	LEU
4	D	369	ASP
4	D	402	VAL
4	D	458	CYS
4	D	584	ILE
4	D	593	LEU
5	E	27	TYR
5	E	37	ILE
5	E	139	GLU
5	E	202	LEU
5	E	218	VAL
5	E	225	GLN
5	E	304	LEU
5	E	316	ILE
5	E	353	VAL
5	E	355	ILE

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Mol	Chain	Res	Type
5	E	361	LEU
5	E	377	ASN
5	E	386	VAL
5	E	446	ILE
5	E	457	LEU
5	E	460	ILE
5	E	517	LYS
5	E	556	GLU
5	E	560	HIS
6	F	28	GLU
6	F	62	VAL
8	H	29	LYS
9	I	78	ILE
9	I	95	LEU
10	J	21	PHE
11	K	42	ILE
11	K	65	HIS
12	L	59	LYS
12	L	66	GLU
12	L	77	ILE
14	N	43	VAL
14	N	117	VAL
15	O	46	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (274) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	575	ASN
1	A	678	HIS
1	A	705	GLN
1	A	728	ASN
1	A	741	ASN
1	A	804	ASN
1	A	837	GLN
1	A	852	ASN
1	A	900	ASN
1	A	952	GLN
1	A	968	HIS
1	A	1041	ASN
1	A	1047	ASN
1	A	1051	GLN
1	A	1101	HIS

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Mol	Chain	Res	Type
1	A	1165	ASN
1	A	1193	GLN
1	A	1205	GLN
1	A	1276	GLN
1	A	1444	GLN
1	A	1460	ASN
1	A	1533	GLN
1	A	1537	GLN
1	A	1566	GLN
1	A	1578	ASN
1	A	1585	GLN
1	A	1655	GLN
1	A	1663	ASN
1	A	1666	ASN
1	A	1708	GLN
1	A	1718	GLN
1	A	1788	GLN
1	A	1860	GLN
1	A	1897	ASN
1	A	1901	GLN
1	A	1916	GLN
1	A	1940	GLN
1	A	1950	GLN
1	A	2037	GLN
1	A	2095	ASN
1	A	2125	ASN
1	A	2220	ASN
1	A	2221	ASN
1	A	2243	ASN
1	A	2267	ASN
1	A	2276	ASN
1	A	2279	ASN
1	A	2369	GLN
1	A	2458	GLN
1	A	2487	ASN
1	A	2508	ASN
1	A	2598	ASN
1	A	2619	ASN
1	A	2654	GLN
1	A	2735	HIS
1	A	2771	ASN
1	A	2795	ASN

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Mol	Chain	Res	Type
1	A	2889	GLN
1	A	3067	HIS
1	A	3084	GLN
1	A	3112	GLN
1	A	3113	GLN
1	A	3122	ASN
1	A	3226	ASN
1	A	3343	HIS
1	A	3344	GLN
1	A	3506	GLN
1	A	3539	ASN
1	A	3651	GLN
1	A	3694	ASN
1	A	3772	ASN
1	A	3801	ASN
1	A	3815	ASN
1	A	3918	ASN
1	A	4044	GLN
1	A	4079	HIS
1	A	4088	GLN
1	A	4274	ASN
1	A	4450	ASN
1	A	4539	ASN
1	A	4562	ASN
1	A	4574	ASN
2	B	544	HIS
2	B	581	ASN
2	B	658	GLN
2	B	724	HIS
2	B	775	GLN
2	B	791	HIS
2	B	796	ASN
2	B	885	GLN
2	B	894	ASN
2	B	923	GLN
2	B	939	ASN
2	B	975	ASN
2	B	1079	ASN
2	B	1081	GLN
2	B	1131	HIS
2	B	1135	HIS
2	B	1530	ASN

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Mol	Chain	Res	Type
2	B	1566	ASN
2	B	1623	ASN
2	B	1626	ASN
2	B	1726	ASN
2	B	1796	HIS
2	B	1820	GLN
2	B	1827	ASN
2	B	1870	ASN
2	B	1956	ASN
2	B	1969	GLN
2	B	1993	GLN
2	B	2005	ASN
2	B	2038	ASN
2	B	2148	GLN
2	B	2203	ASN
2	B	2214	ASN
2	B	2325	ASN
2	B	2345	ASN
2	B	2462	ASN
2	B	2476	GLN
2	B	2492	ASN
2	B	2502	ASN
2	B	2591	ASN
2	B	2635	ASN
2	B	2646	GLN
2	B	2656	GLN
2	B	2695	HIS
2	B	2724	ASN
2	B	2738	GLN
2	B	2758	GLN
2	B	2812	ASN
2	B	2963	ASN
2	B	3042	ASN
2	B	3049	HIS
2	B	3081	ASN
2	B	3086	HIS
2	B	3104	ASN
2	B	3238	HIS
2	B	3288	GLN
2	B	3301	ASN
2	B	3309	GLN
2	B	3407	GLN

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Mol	Chain	Res	Type
2	B	3430	ASN
2	B	3475	ASN
2	B	3521	ASN
2	B	3619	ASN
2	B	3640	GLN
2	B	3709	ASN
2	B	3769	HIS
2	B	3820	HIS
2	B	3873	GLN
2	B	3879	ASN
2	B	4106	ASN
2	B	4137	HIS
2	B	4152	ASN
2	B	4170	ASN
2	B	4177	GLN
2	B	4209	ASN
2	B	4243	ASN
2	B	4267	HIS
2	B	4420	GLN
2	B	4509	GLN
3	C	17	GLN
3	C	105	ASN
3	C	126	ASN
3	C	164	HIS
3	C	213	GLN
3	C	246	HIS
3	C	281	ASN
3	C	1045	GLN
3	C	1051	GLN
3	C	1059	ASN
3	C	1126	ASN
3	C	1163	HIS
3	C	1238	GLN
3	C	1300	GLN
3	C	1309	GLN
3	C	1340	GLN
3	C	1428	ASN
3	C	1570	GLN
3	C	1572	HIS
3	C	1727	ASN
3	C	1752	ASN
3	C	1863	HIS

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Mol	Chain	Res	Type
3	C	1888	GLN
3	C	1981	ASN
3	C	2018	GLN
3	C	2043	ASN
3	C	2074	GLN
3	C	2101	GLN
3	C	2123	GLN
3	C	2207	HIS
3	C	2217	ASN
3	C	2421	GLN
3	C	2432	ASN
3	C	2455	GLN
3	C	2483	ASN
3	C	2743	ASN
3	C	2828	GLN
3	C	2947	ASN
3	C	3004	ASN
3	C	3051	ASN
3	C	3103	HIS
3	C	3597	ASN
3	C	3626	ASN
3	C	3631	GLN
3	C	3654	HIS
3	C	3656	ASN
3	C	3693	GLN
3	C	3751	ASN
3	C	3773	GLN
3	C	3819	ASN
3	C	3879	GLN
3	C	3958	ASN
3	C	4034	GLN
3	C	4040	GLN
3	C	4050	GLN
3	C	4102	HIS
3	C	4109	ASN
4	D	144	GLN
4	D	169	ASN
4	D	174	GLN
4	D	177	ASN
4	D	262	HIS
4	D	294	GLN
4	D	298	ASN

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Mol	Chain	Res	Type
4	D	356	HIS
4	D	405	ASN
4	D	413	ASN
4	D	493	GLN
4	D	509	ASN
4	D	510	ASN
4	D	512	HIS
4	D	572	ASN
4	D	592	ASN
5	E	31	GLN
5	E	44	ASN
5	E	59	HIS
5	E	122	GLN
5	E	237	ASN
5	E	259	ASN
5	E	366	HIS
5	E	377	ASN
5	E	408	HIS
5	E	481	GLN
5	E	498	GLN
5	E	526	GLN
6	F	36	HIS
6	F	57	ASN
6	F	64	GLN
7	G	129	GLN
7	G	133	ASN
7	G	149	GLN
8	H	3	HIS
8	H	36	ASN
8	H	54	HIS
9	I	39	GLN
9	I	55	ASN
9	I	66	ASN
9	I	76	GLN
9	I	100	ASN
10	J	63	HIS
11	K	4	HIS
11	K	67	ASN
11	K	76	ASN
12	L	19	HIS
12	L	28	GLN
12	L	91	ASN

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Mol	Chain	Res	Type
13	M	2	ASN
13	M	64	HIS
13	M	78	ASN
14	N	89	GLN
15	O	93	GLN
15	O	106	GLN
15	O	109	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 18 ligands modelled in this entry, 9 are monoatomic - leaving 9 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
20	ATP	B	5601	21	32,33,33	0.54	0	48,52,52	0.62	0
19	ADP	A	4901	21	28,29,29	1.38	4 (14%)	43,45,45	1.84	8 (18%)
20	ATP	C	4201	21	32,33,33	0.49	0	48,52,52	0.65	0
20	ATP	A	4801	21	32,33,33	1.31	4 (12%)	48,52,52	1.73	10 (20%)
19	ADP	C	4702	21	28,29,29	0.50	0	43,45,45	0.83	1 (2%)
19	ADP	C	4703	21	28,29,29	0.46	0	43,45,45	0.61	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
19	ADP	A	4701	21	28,29,29	1.40	5 (17%)	43,45,45	1.87	9 (20%)
19	ADP	B	5602	21	28,29,29	0.46	0	43,45,45	0.47	0
19	ADP	B	5501	21	28,29,29	0.48	0	43,45,45	0.60	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
20	ATP	B	5601	21	-	2/22/38/38	0/3/3/3
19	ADP	A	4901	21	-	6/16/32/32	0/3/3/3
20	ATP	C	4201	21	-	3/22/38/38	0/3/3/3
20	ATP	A	4801	21	-	3/22/38/38	0/3/3/3
19	ADP	C	4702	21	-	7/16/32/32	0/3/3/3
19	ADP	C	4703	21	-	4/16/32/32	0/3/3/3
19	ADP	A	4701	21	-	8/16/32/32	0/3/3/3
19	ADP	B	5602	21	-	1/16/32/32	0/3/3/3
19	ADP	B	5501	21	-	3/16/32/32	0/3/3/3

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
19	A	4901	ADP	C5-C4	4.52	1.47	1.39
19	A	4701	ADP	C5-C4	4.39	1.46	1.39
20	A	4801	ATP	C5-C4	4.10	1.46	1.39
19	A	4901	ADP	C5-C6	2.77	1.48	1.41
20	A	4801	ATP	C5-N7	-2.68	1.34	1.39
19	A	4701	ADP	C5-C6	2.62	1.48	1.41
19	A	4701	ADP	C5-N7	-2.56	1.34	1.39
19	A	4901	ADP	C5-N7	-2.34	1.34	1.39
20	A	4801	ATP	C5-C6	2.29	1.47	1.41
19	A	4901	ADP	C8-N7	2.29	1.36	1.31
19	A	4701	ADP	C8-N7	2.16	1.35	1.31
20	A	4801	ATP	C4-N9	-2.15	1.33	1.37
19	A	4701	ADP	C4-N9	-2.06	1.33	1.37

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	A	4701	ADP	C5-C4-N3	-6.24	118.13	126.72
19	A	4901	ADP	C5-C4-N3	-5.79	118.74	126.72
20	A	4801	ATP	C5-C4-N3	-5.74	118.81	126.72
19	A	4901	ADP	N3-C4-N9	4.63	135.05	127.17
20	A	4801	ATP	N3-C4-N9	4.58	134.96	127.17
19	A	4701	ADP	N3-C4-N9	4.57	134.95	127.17
19	A	4701	ADP	C2-N3-C4	3.76	121.02	111.83
19	A	4701	ADP	C4-C5-N7	-3.70	106.35	110.58
19	A	4901	ADP	C2-N3-C4	3.67	120.79	111.83
20	A	4801	ATP	C2-N3-C4	3.63	120.69	111.83
20	A	4801	ATP	C4-C5-N7	-3.49	106.59	110.58
20	A	4801	ATP	N3-C2-N1	-3.32	123.56	128.58
19	A	4901	ADP	C4-C5-N7	-3.31	106.80	110.58
19	A	4901	ADP	N3-C2-N1	-3.07	123.94	128.58
19	A	4701	ADP	N3-C2-N1	-3.04	123.98	128.58
20	A	4801	ATP	C4-N9-C8	2.86	108.75	105.74
20	A	4801	ATP	C5-N7-C8	2.67	107.65	103.45
19	A	4901	ADP	C4-N9-C8	2.61	108.47	105.74
19	A	4701	ADP	C3'-C2'-C1'	2.51	106.22	101.46
19	A	4901	ADP	C5-N7-C8	2.50	107.38	103.45
19	A	4701	ADP	C5-N7-C8	2.48	107.35	103.45
19	A	4901	ADP	C3'-C2'-C1'	2.46	106.12	101.46
20	A	4801	ATP	N9-C8-N7	-2.23	110.78	113.94
20	A	4801	ATP	C2'-C1'-N9	-2.18	107.88	113.30
20	A	4801	ATP	C6-C5-N7	2.08	136.10	132.09
19	C	4702	ADP	C4-N9-C1'	2.04	131.41	126.63
19	A	4701	ADP	C6-C5-N7	2.03	136.01	132.09
19	A	4701	ADP	C2'-C3'-C4'	2.02	106.51	102.61

There are no chirality outliers.

All (37) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	A	4701	ADP	PB-O3A-PA-O5'
19	A	4701	ADP	C5'-O5'-PA-O1A
19	A	4701	ADP	C5'-O5'-PA-O2A
19	A	4701	ADP	C5'-O5'-PA-O3A
19	A	4901	ADP	PB-O3A-PA-O5'
19	A	4901	ADP	C5'-O5'-PA-O2A
19	A	4901	ADP	C5'-O5'-PA-O3A
19	B	5501	ADP	C4'-C5'-O5'-PA
19	C	4702	ADP	C5'-O5'-PA-O1A
19	C	4702	ADP	C5'-O5'-PA-O2A

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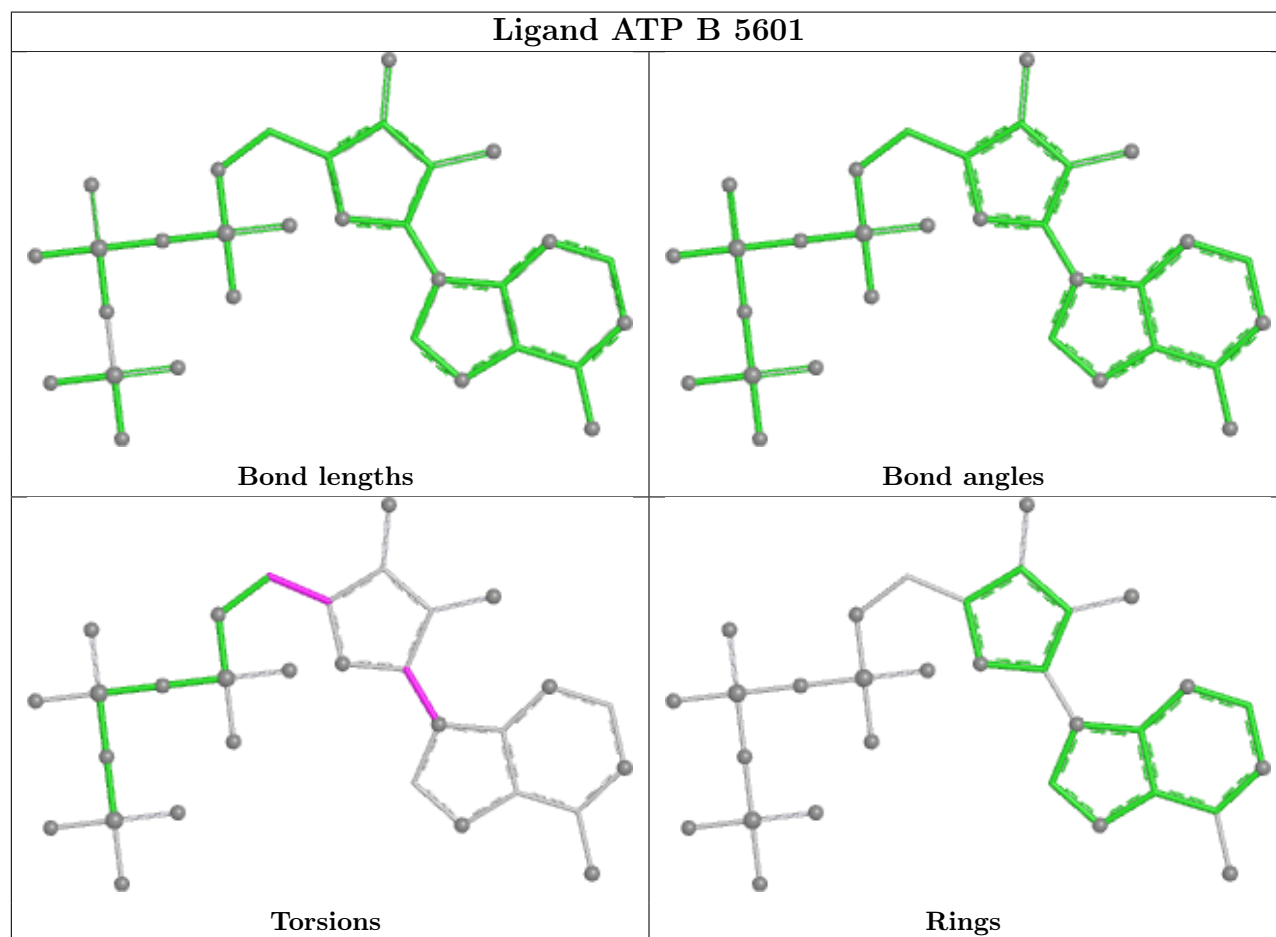
Mol	Chain	Res	Type	Atoms
19	C	4702	ADP	C5'-O5'-PA-O3A
19	C	4703	ADP	O4'-C4'-C5'-O5'
20	C	4201	ATP	O4'-C1'-N9-C8
20	C	4201	ATP	O4'-C1'-N9-C4
19	C	4702	ADP	C3'-C4'-C5'-O5'
19	A	4901	ADP	O4'-C4'-C5'-O5'
19	C	4702	ADP	O4'-C4'-C5'-O5'
20	A	4801	ATP	O4'-C4'-C5'-O5'
19	C	4703	ADP	C3'-C4'-C5'-O5'
19	A	4701	ADP	O4'-C4'-C5'-O5'
19	A	4901	ADP	C3'-C4'-C5'-O5'
20	A	4801	ATP	C3'-C4'-C5'-O5'
19	C	4702	ADP	C2'-C1'-N9-C4
19	C	4702	ADP	C2'-C1'-N9-C8
19	A	4901	ADP	C5'-O5'-PA-O1A
19	B	5501	ADP	C2'-C1'-N9-C8
19	A	4701	ADP	C4'-C5'-O5'-PA
19	B	5501	ADP	C2'-C1'-N9-C4
19	C	4703	ADP	PB-O3A-PA-O1A
19	A	4701	ADP	PB-O3A-PA-O1A
19	A	4701	ADP	PB-O3A-PA-O2A
20	A	4801	ATP	PB-O3A-PA-O2A
20	B	5601	ATP	O4'-C4'-C5'-O5'
20	B	5601	ATP	C2'-C1'-N9-C8
19	B	5602	ADP	C4'-C5'-O5'-PA
19	C	4703	ADP	PB-O3A-PA-O2A
20	C	4201	ATP	PA-O3A-PB-O2B

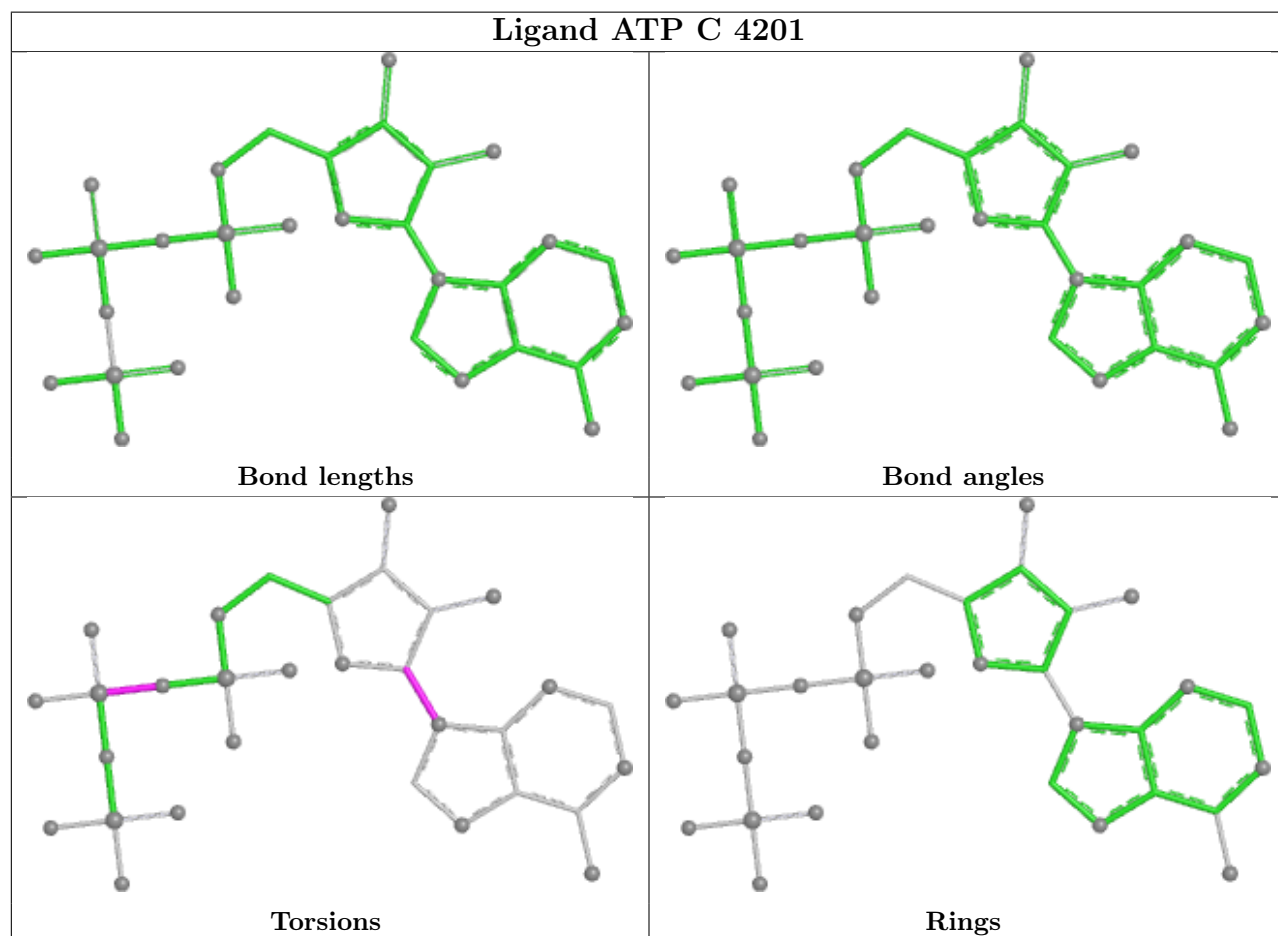
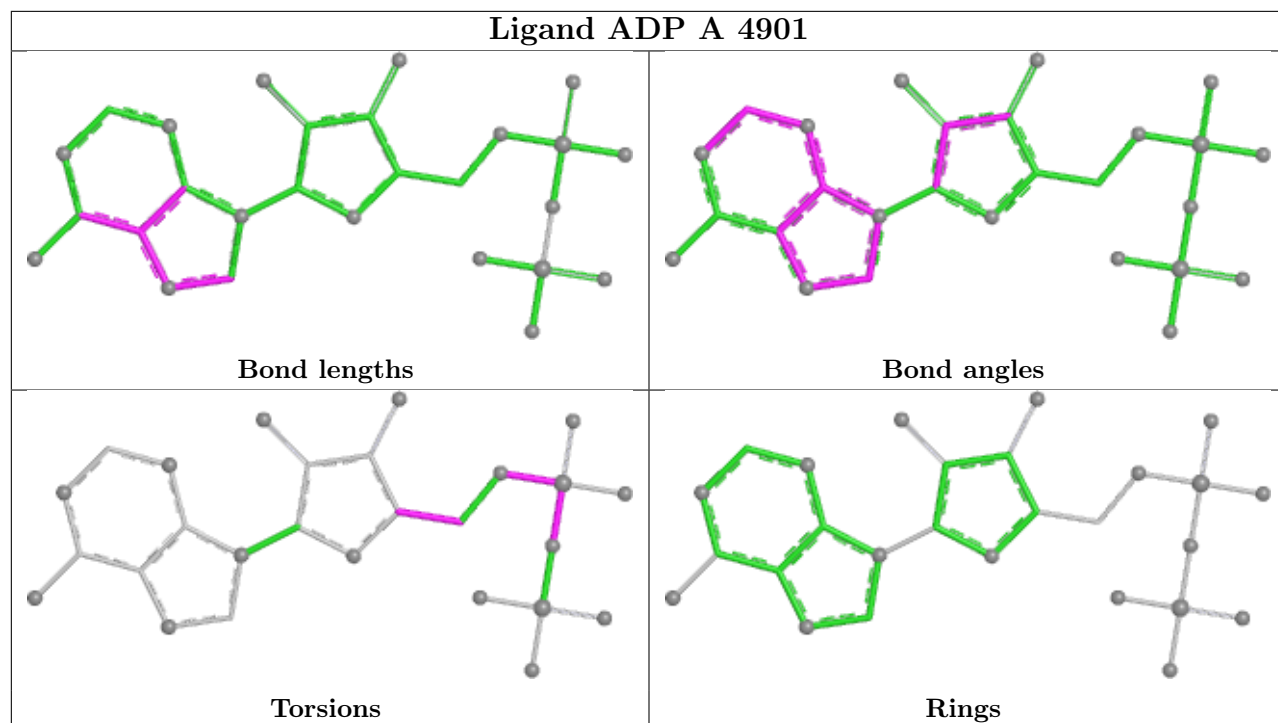
There are no ring outliers.

9 monomers are involved in 137 short contacts:

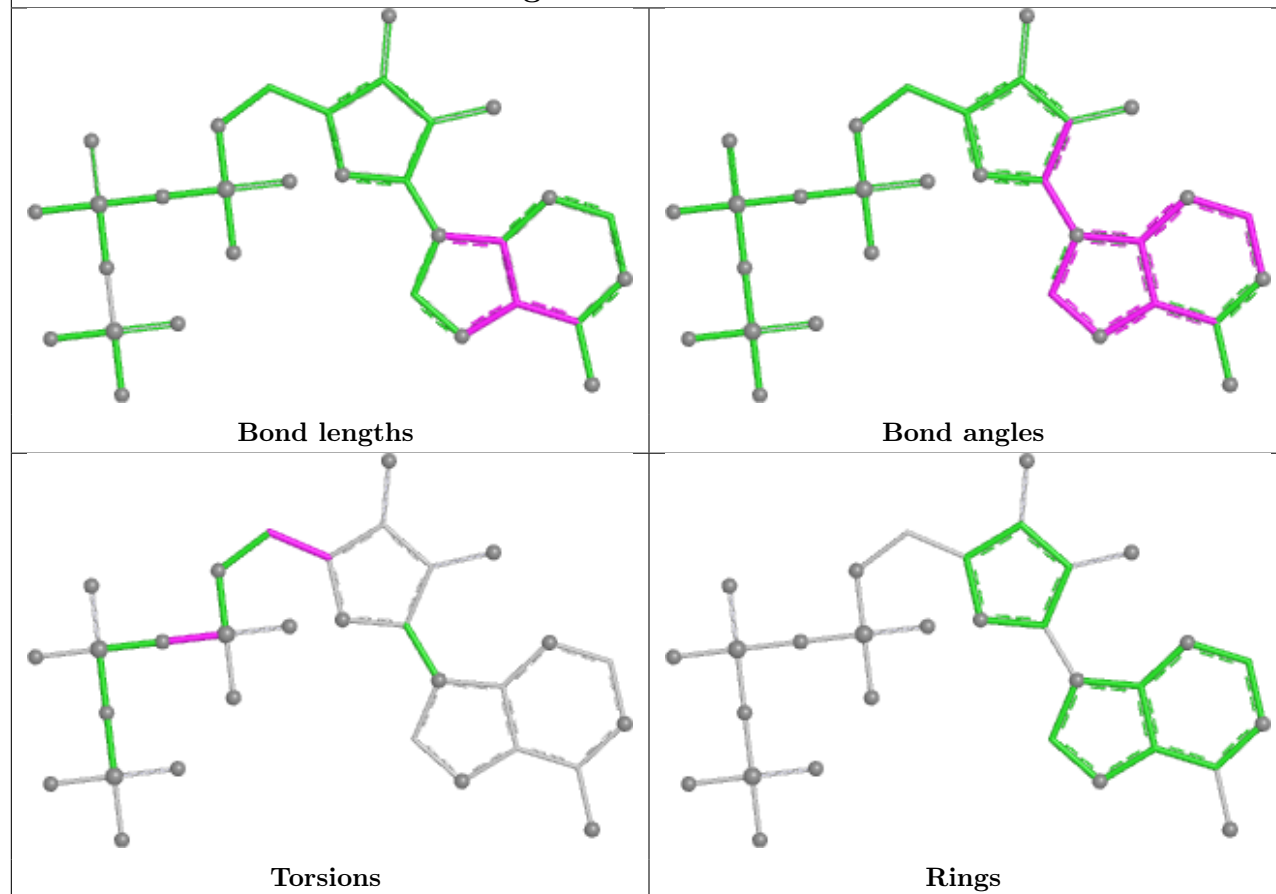
Mol	Chain	Res	Type	Clashes	Symm-Clashes
20	B	5601	ATP	43	0
19	A	4901	ADP	19	0
20	C	4201	ATP	2	0
20	A	4801	ATP	10	0
19	C	4702	ADP	25	0
19	C	4703	ADP	7	0
19	A	4701	ADP	13	0
19	B	5602	ADP	2	0
19	B	5501	ADP	16	0

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

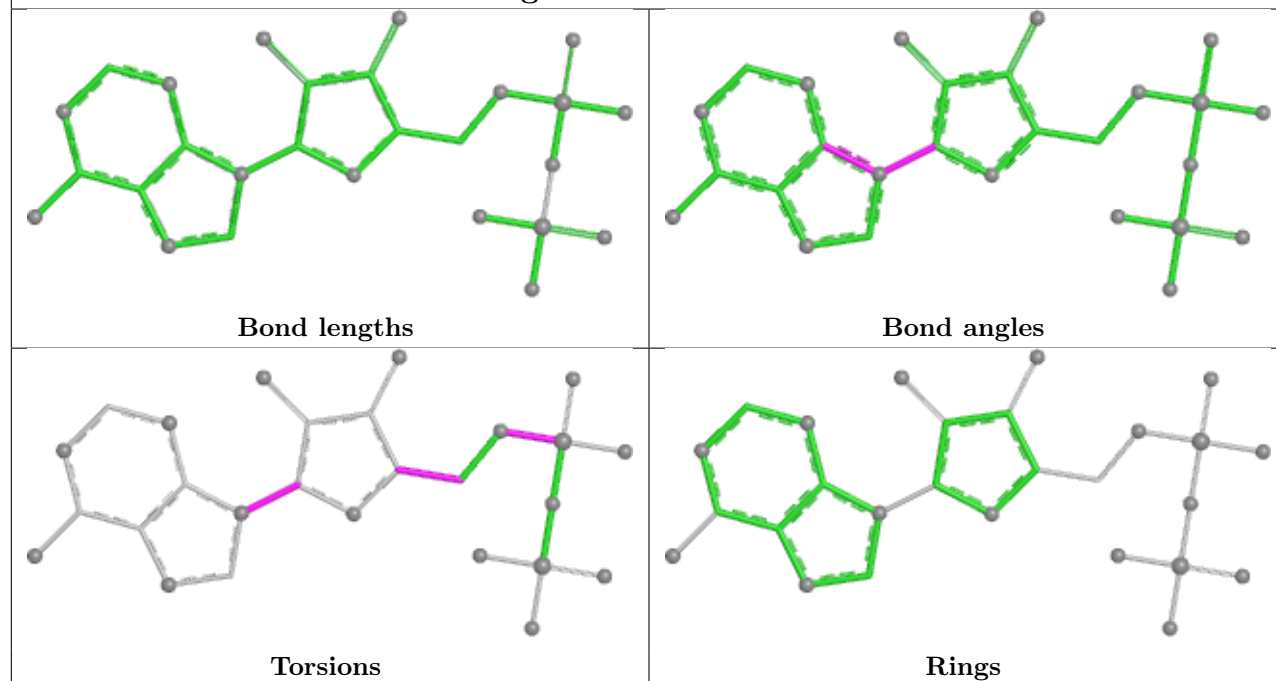


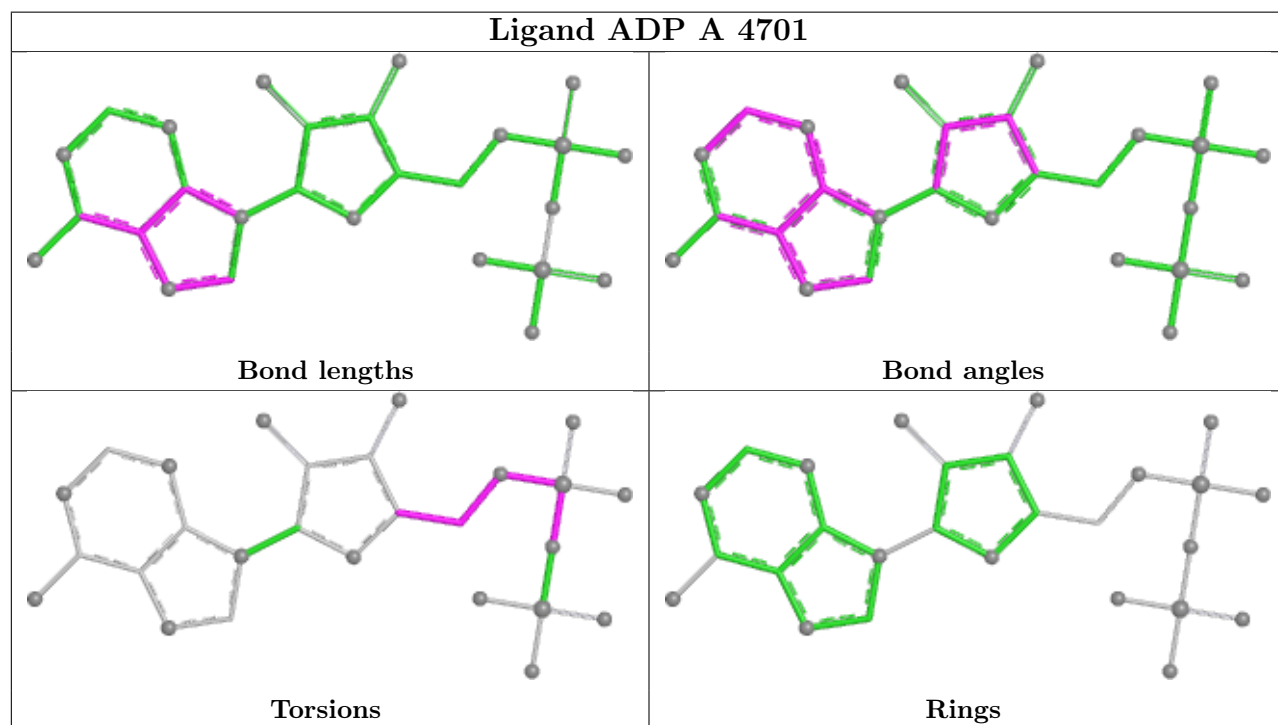
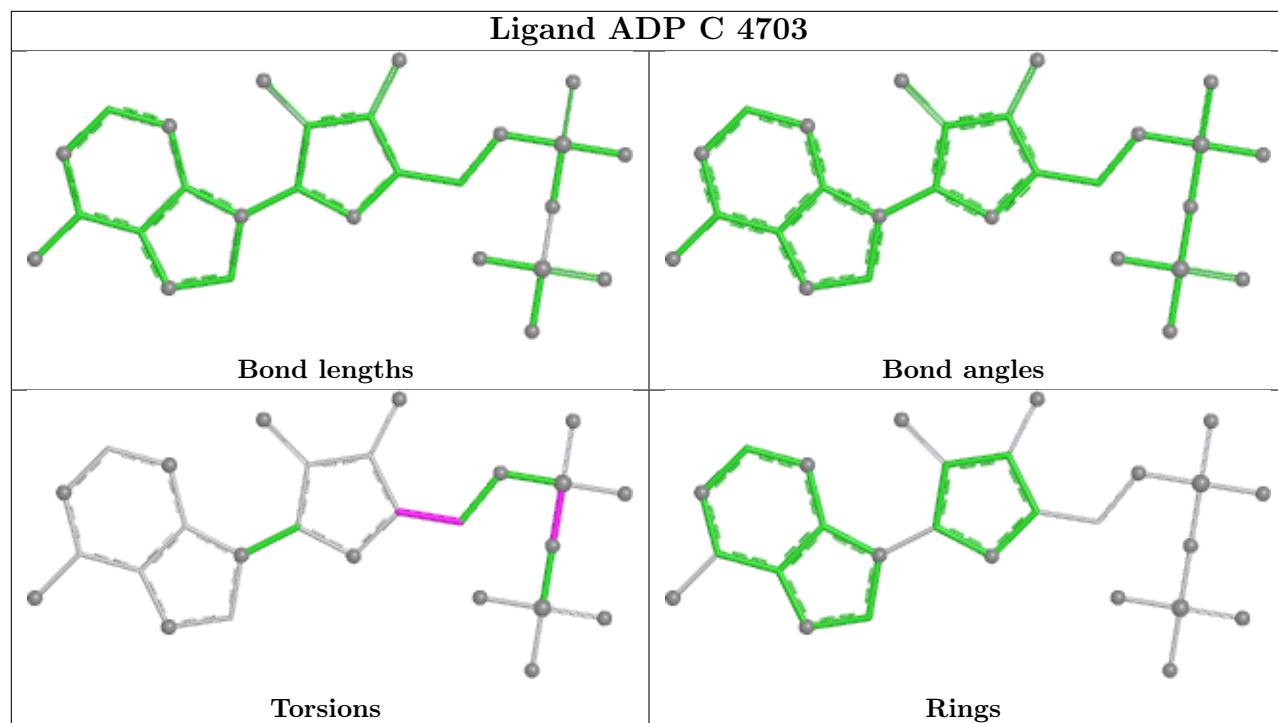


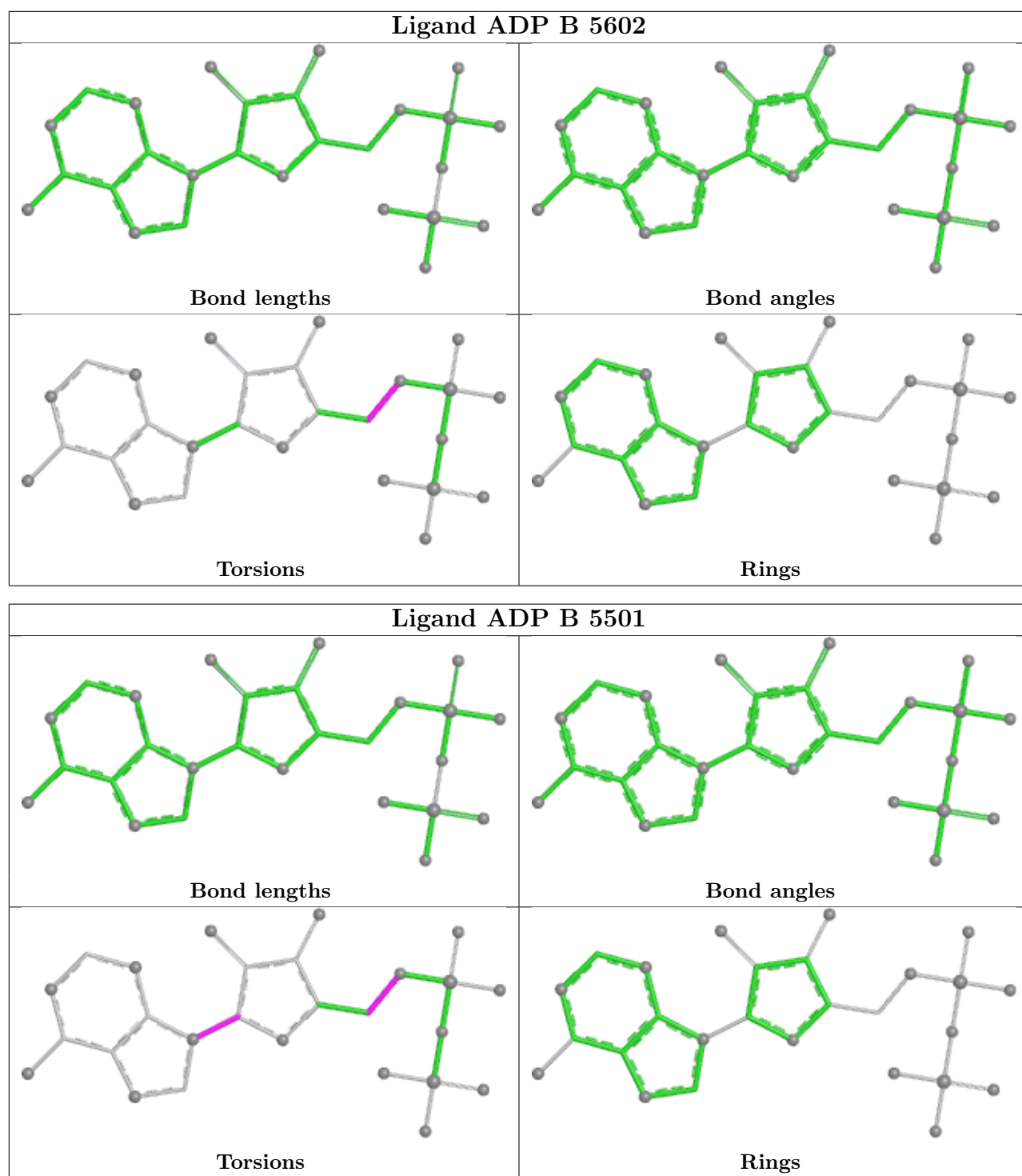
Ligand ATP A 4801



Ligand ADP C 4702







5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	12
3	C	11
2	B	11
16	P	4
4	D	2
7	G	1
18	R	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	3277:MET	C	3380:MET	N	42.67
1	A	1235:PRO	C	1246:MET	N	14.08
1	C	809:ARG	C	818:ILE	N	13.93
1	C	449:TYR	C	452:ASN	N	13.33
1	C	665:ILE	C	670:SER	N	11.69
1	C	546:LYS	C	629:ASN	N	9.90
1	C	483:ASN	C	492:GLY	N	7.26
1	C	361:PRO	C	364:ILE	N	7.14
1	B	4297:ASP	C	4303:ILE	N	6.68
1	C	1061:PHE	C	1066:GLU	N	6.25
1	A	3250:PRO	C	3251:ILE	N	5.80
1	A	1408:LYS	C	1410:LEU	N	5.05
1	C	706:LYS	C	710:LYS	N	4.95
1	A	3251:ILE	C	3252:GLN	N	4.89
1	A	4489:GLY	C	4493:GLY	N	3.79
1	A	24:LYS	C	25:ASP	N	3.36
1	C	2780:VAL	C	2783:ALA	N	3.25
1	B	79:PRO	C	80:PRO	N	3.22
1	C	1186:THR	C	1188:LEU	N	3.05
1	D	216:HIS	C	217:GLN	N	2.93
1	A	115:ASP	C	116:ASN	N	2.81
1	A	40:LEU	C	41:LEU	N	2.75
1	A	5:LYS	C	6:TYR	N	2.67
1	A	53:ILE	C	54:PHE	N	2.45
1	G	58:SER	C	59:GLU	N	2.19
1	B	50:GLN	C	51:GLY	N	2.17
1	P	39:TRP	C	40:SER	N	2.17
1	B	52:PHE	C	53:ILE	N	2.15
1	B	70:LYS	C	71:CYS	N	2.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	238:SER	C	239:THR	N	2.02
1	P	15:SER	C	16:GLU	N	1.81
1	B	799:VAL	C	800:LYS	N	1.72
1	R	82:ALA	C	83:ASN	N	1.71
1	A	943:THR	C	944:LEU	N	1.69
1	B	55:GLN	C	56:ASP	N	1.60
1	P	61:GLU	C	62:LYS	N	1.60
1	B	99:LEU	C	100:THR	N	1.19
1	B	49:PHE	C	50:GLN	N	1.18
1	B	56:ASP	C	57:ASN	N	0.96
1	A	1649:ALA	C	1650:LEU	N	0.94
1	P	62:LYS	C	63:ARG	N	0.63
1	B	59:THR	C	60:ASN	N	0.44

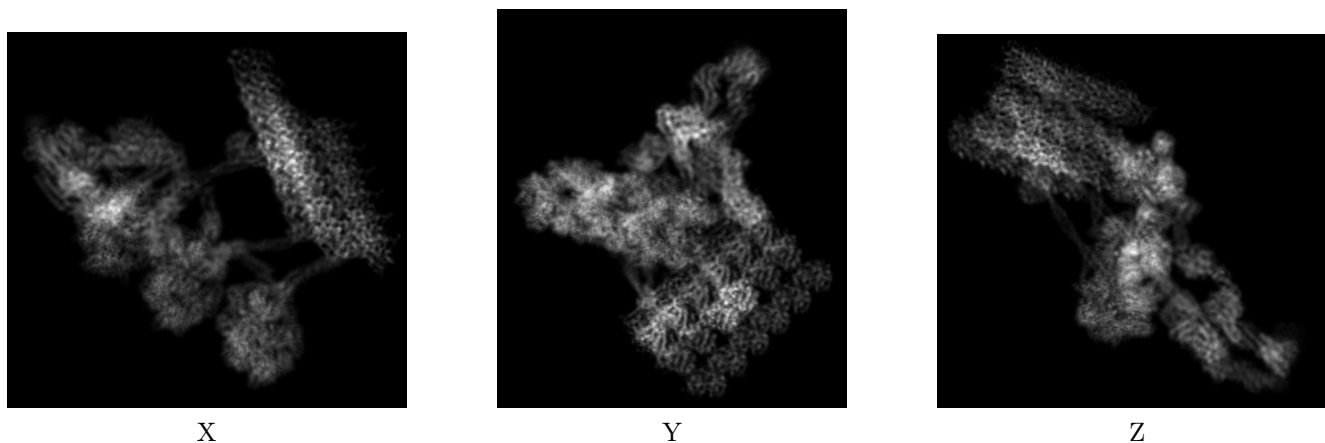
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-22679. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

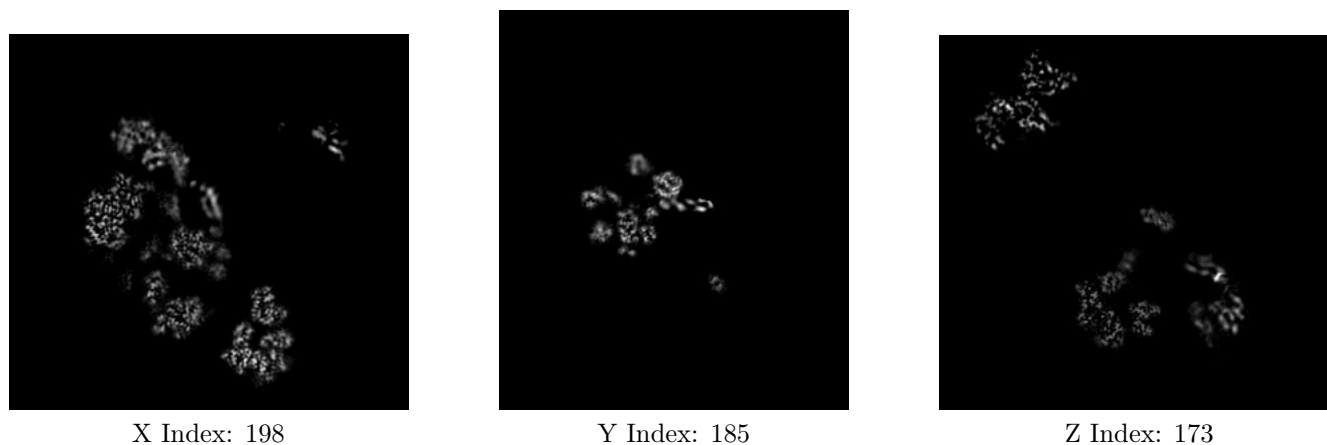
6.1.1 Primary map



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

6.2 Central slices [i](#)

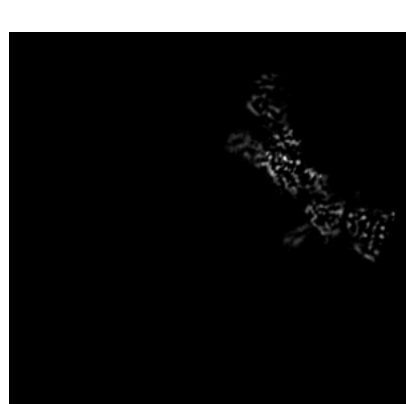
6.2.1 Primary map



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: 97



Y Index: 249

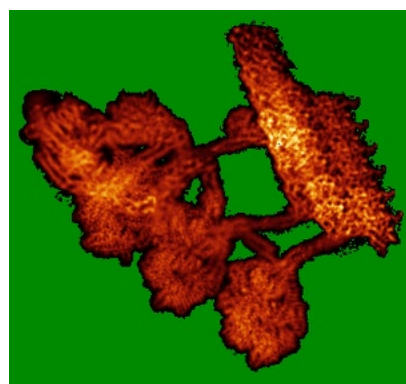


Z Index: 228

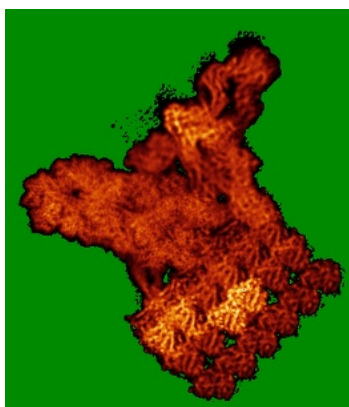
The images above show the largest variance slices of the map in three orthogonal directions.

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

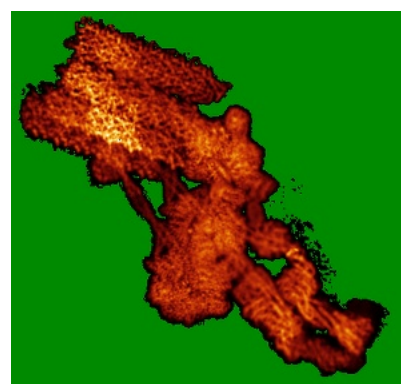
6.4.1 Primary map



X



Y

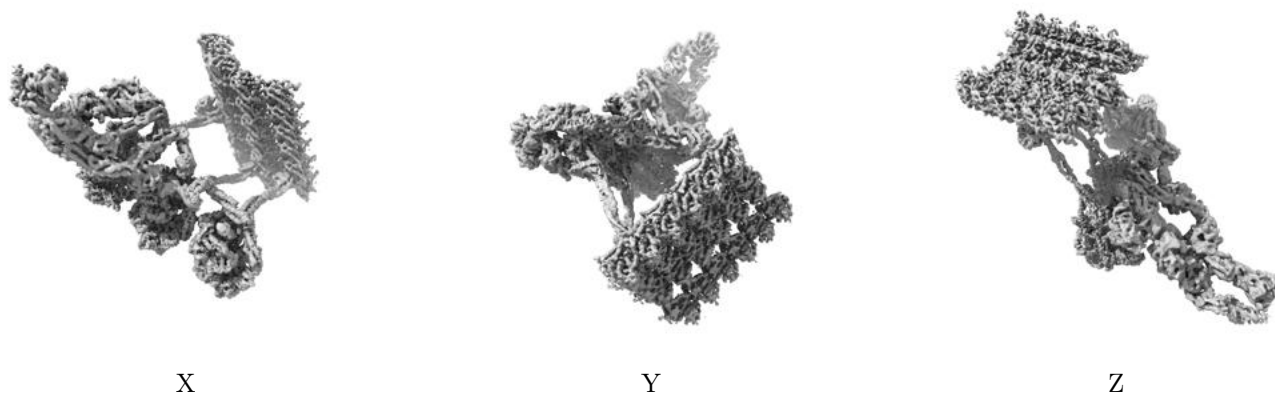


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

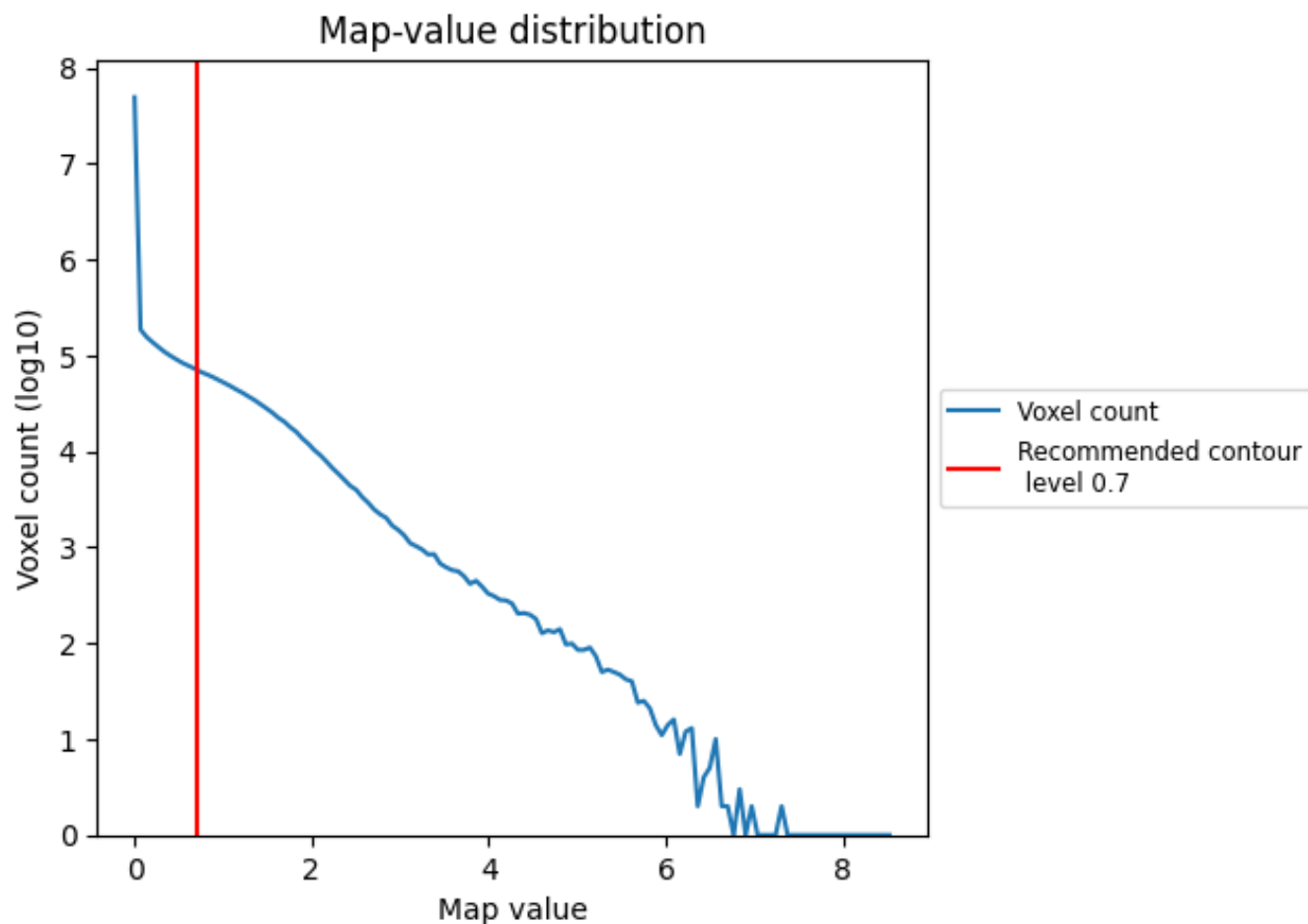
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

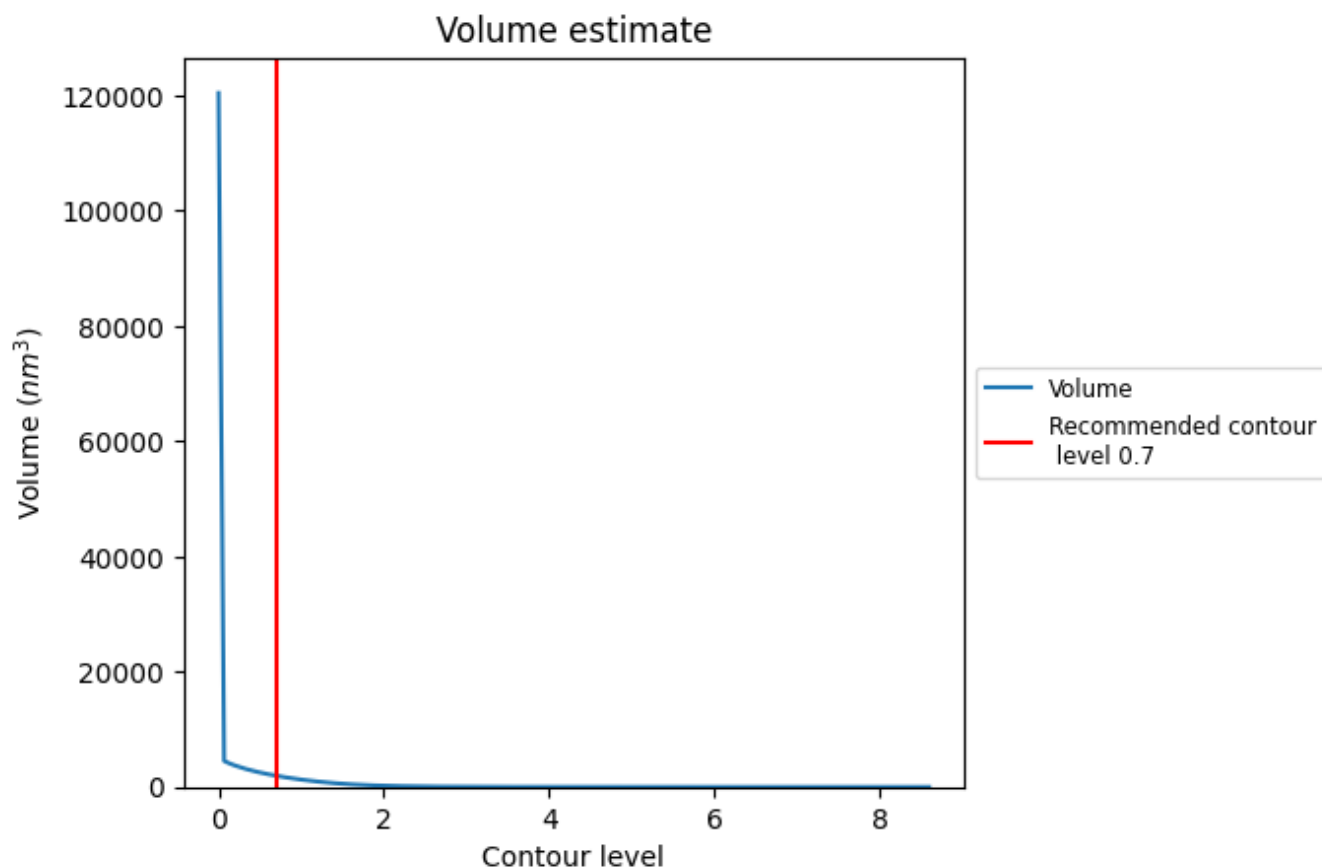
This section contains the results of statistical analysis of the map.

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 1940 nm³; this corresponds to an approximate mass of 1753 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](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

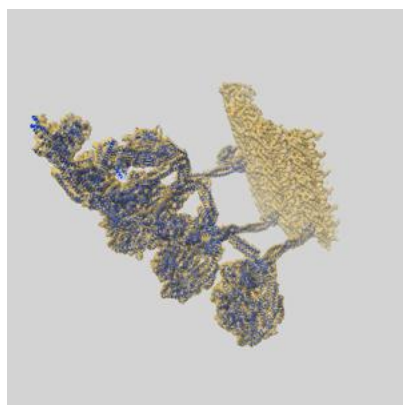
8 Fourier-Shell correlation

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

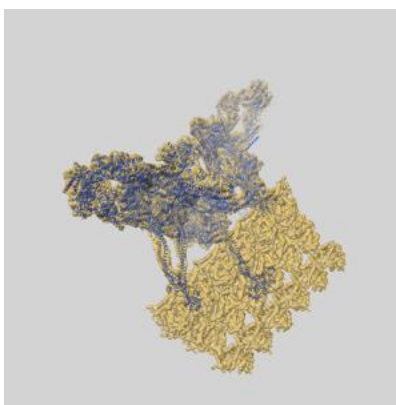
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-22679 and PDB model 7K5B. Per-residue inclusion information can be found in section [3](#) on page [9](#).

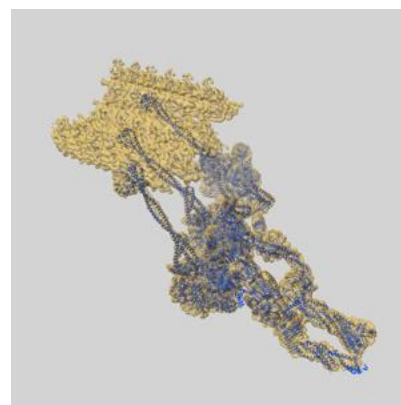
9.1 Map-model overlay [i](#)



X



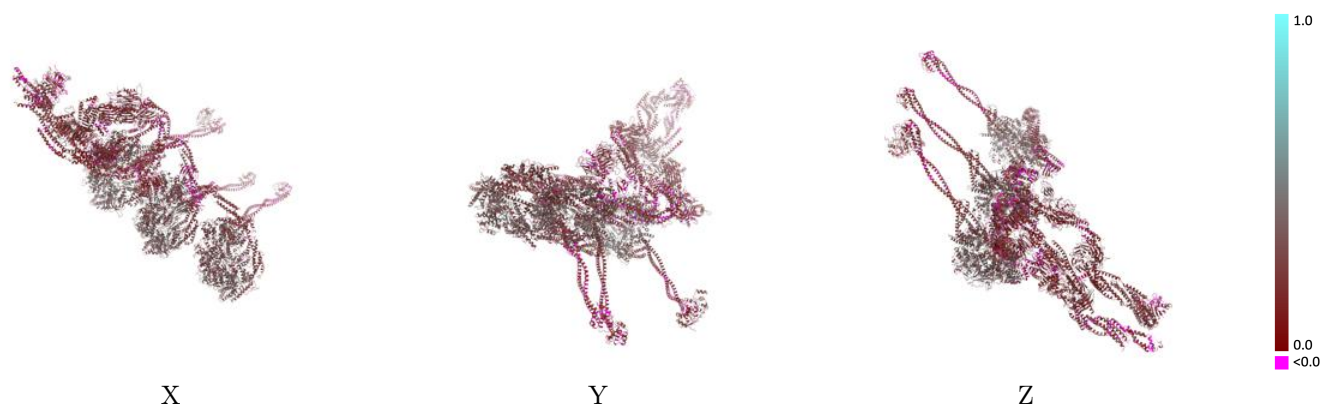
Y



Z

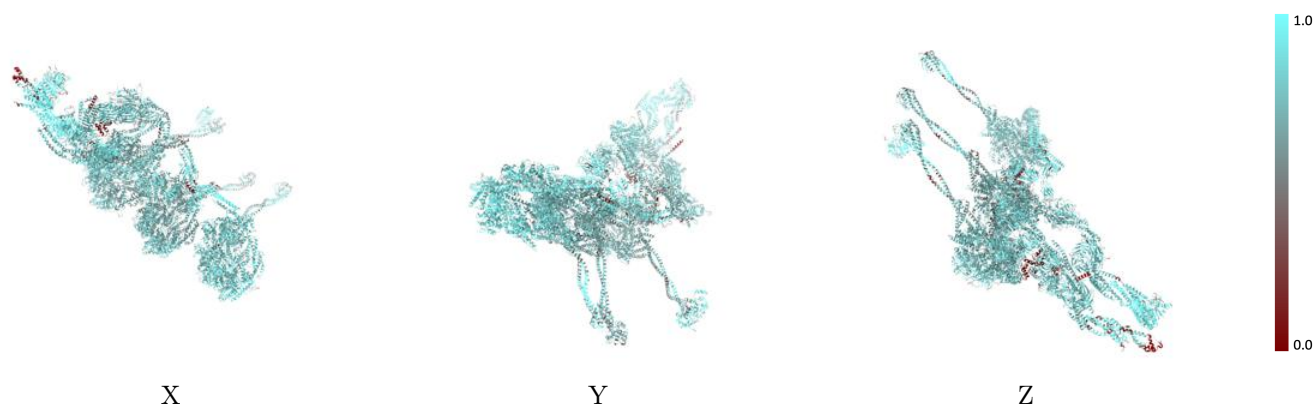
The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



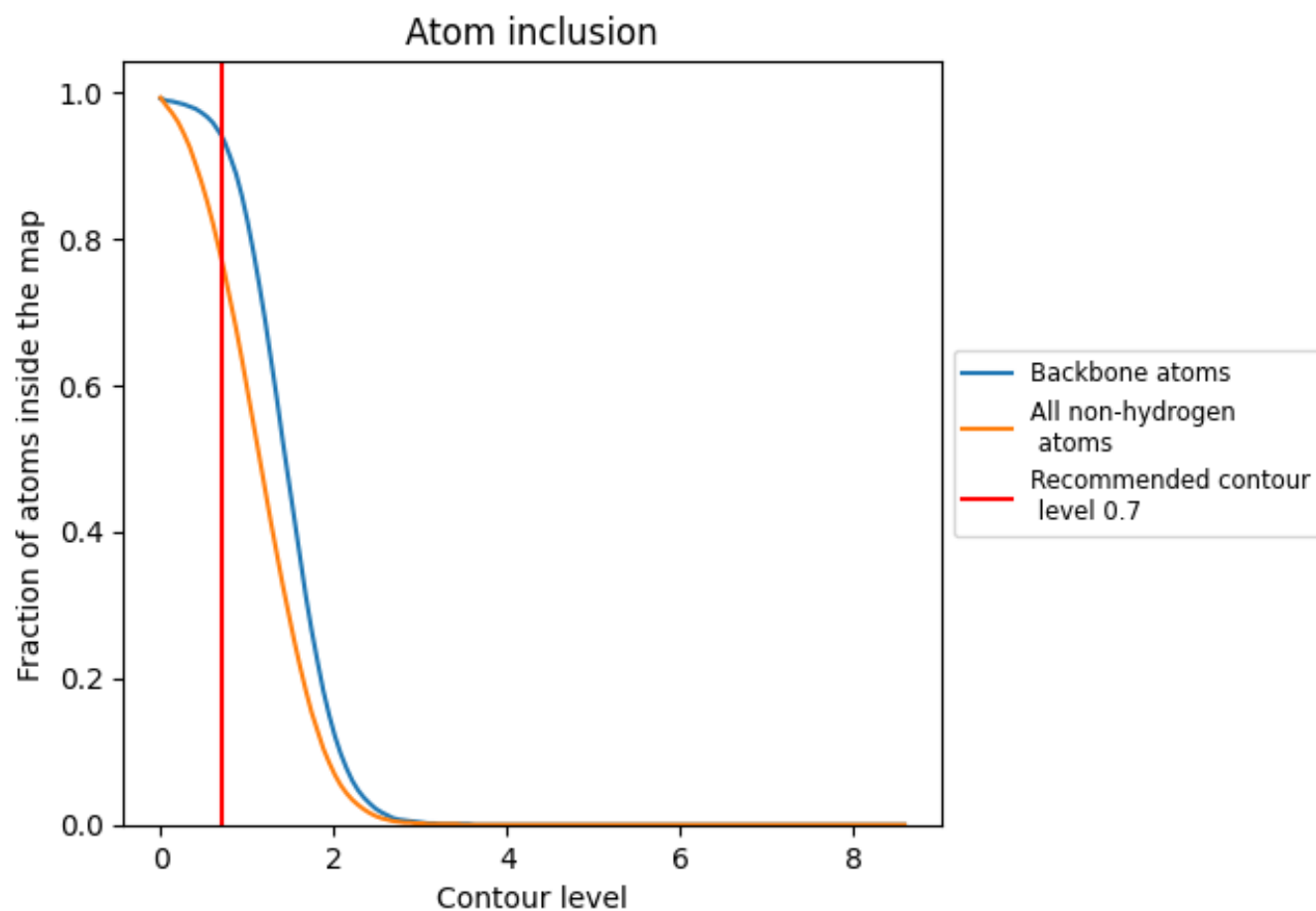
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.7).

9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 77% 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 (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7740	0.2640
A	0.7590	0.2830
B	0.7570	0.2730
C	0.8180	0.2860
D	0.8030	0.2060
E	0.8280	0.2060
F	0.7010	0.1850
G	0.6180	0.1440
H	0.7740	0.1860
I	0.8050	0.1730
J	0.7950	0.1850
K	0.8070	0.1780
L	0.6570	0.1780
M	0.7680	0.1590
N	0.7670	0.1640
O	0.7500	0.1440
P	0.8910	0.1510
Q	0.8490	0.2450
R	0.0270	-0.0320

