



Full wwPDB EM Validation Report ⓘ

Mar 14, 2026 – 01:41 AM UTC

PDB ID : 8KG9 / pdb_00008kg9
EMDB ID : EMD-37215
Title : Yeast replisome in state III
Authors : Dang, S.; Zhai, Y.; Feng, J.; Yu, D.; Xu, Z.
Deposited on : 2023-08-17
Resolution : 4.52 Å(reported)
Based on initial model : 6SKL

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:

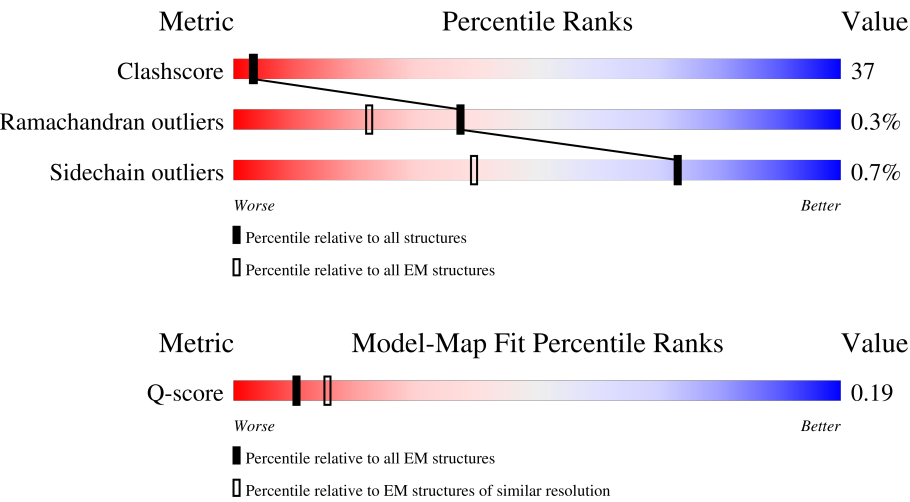
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data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

1 Overall quality at a glance i

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

The reported resolution of this entry is 4.52 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.



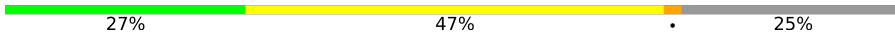
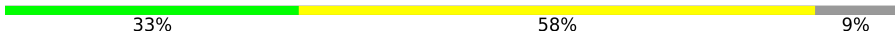
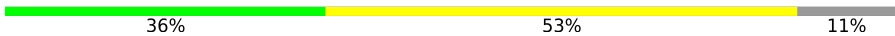
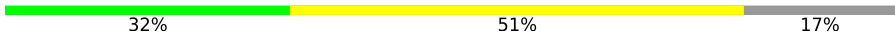
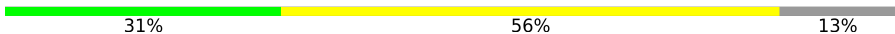
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2506 (4.02 - 5.02)

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	2	868	27%49%23%
2	3	971	23%43%34%
3	4	933	28%44%28%
4	5	775	33%54%13%

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Mol	Chain	Length	Quality of chain
5	6	1017	
6	7	845	
7	A	208	
8	B	213	
9	C	194	
10	D	294	
11	E	650	
12	F	927	
12	G	927	
12	H	927	
13	I	71	
14	J	61	
15	M	2222	
16	N	689	

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
18	ADP	2	902	-	-	X	-
18	ADP	3	1001	-	-	X	-
20	AGS	5	803	-	-	X	-
20	AGS	7	903	-	-	X	-

2 Entry composition

There are 20 unique types of molecules in this entry. The entry contains 63507 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA replication licensing factor MCM2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	2	668	Total	C	N	O	S	0	0
			5270	3310	948	993	19		

- Molecule 2 is a protein called DNA replication licensing factor MCM3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	3	637	Total	C	N	O	S	0	0
			4948	3116	881	938	13		

- Molecule 3 is a protein called DNA replication licensing factor MCM4.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	4	676	Total	C	N	O	S	0	0
			5390	3386	937	1036	31		

- Molecule 4 is a protein called Minichromosome maintenance protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	5	676	Total	C	N	O	S	0	0
			5325	3347	919	1035	24		

- Molecule 5 is a protein called DNA replication licensing factor MCM6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	6	629	Total	C	N	O	S	0	0
			4955	3124	868	938	25		

- Molecule 6 is a protein called DNA replication licensing factor MCM7.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	7	636	Total	C	N	O	S	0	0
			4945	3125	861	933	26		

- Molecule 7 is a protein called DNA replication complex GINS protein PSF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A	200	Total	C	N	O	S	0	0
			1633	1024	282	318	9		

- Molecule 8 is a protein called DNA replication complex GINS protein PSF2.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	B	193	Total	C	N	O	S	0	0
			1617	1039	286	287	5		

- Molecule 9 is a protein called DNA replication complex GINS protein PSF3.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	C	172	Total	C	N	O	S	0	0
			1387	904	223	253	7		

- Molecule 10 is a protein called DNA replication complex GINS protein SLD5.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	D	243	Total	C	N	O	S	0	0
			2004	1276	327	389	12		

- Molecule 11 is a protein called Cell division control protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	E	568	Total	C	N	O	S	0	0
			4599	2935	778	872	14		

- Molecule 12 is a protein called DNA polymerase alpha-binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	F	424	Total	C	N	O	S	0	0
			3404	2188	564	637	15		
12	G	422	Total	C	N	O	S	0	0
			3380	2172	557	636	15		
12	H	425	Total	C	N	O	S	0	0
			3411	2193	565	638	15		

- Molecule 13 is a DNA chain called DNA (70-mer).

Mol	Chain	Residues	Atoms					AltConf	Trace
13	I	15	Total	C	N	O	P	0	0
			307	150	42	100	15		

- Molecule 14 is a DNA chain called DNA (61-mer).

Mol	Chain	Residues	Atoms					AltConf	Trace
14	J	8	Total	C	N	O	P	0	0
			159	76	29	46	8		

- Molecule 15 is a protein called DNA polymerase epsilon catalytic subunit A.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	M	812	Total	C	N	O	S	0	0
			6447	4162	1059	1192	34		

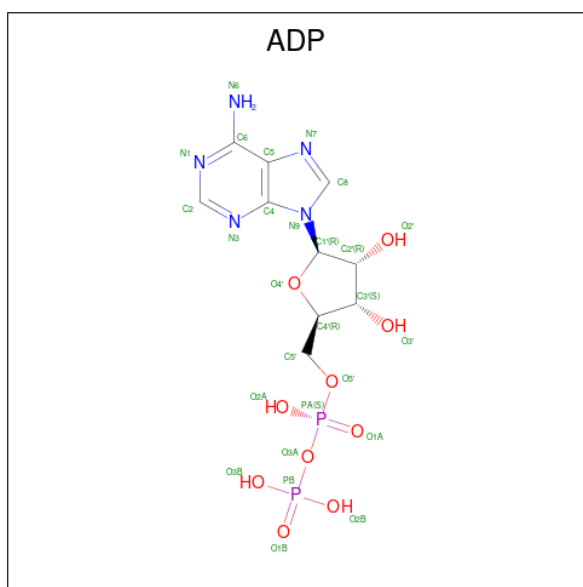
- Molecule 16 is a protein called DNA polymerase epsilon subunit B.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	N	529	Total	C	N	O	S	0	0
			4199	2684	716	782	17		

- Molecule 17 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
17	2	1	Total	Zn	0
			1	1	
17	4	1	Total	Zn	0
			1	1	
17	5	1	Total	Zn	0
			1	1	
17	6	1	Total	Zn	0
			1	1	
17	7	1	Total	Zn	0
			1	1	
17	M	2	Total	Zn	0
			2	2	

- Molecule 18 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂) (labeled as "Ligand of Interest" by depositor).

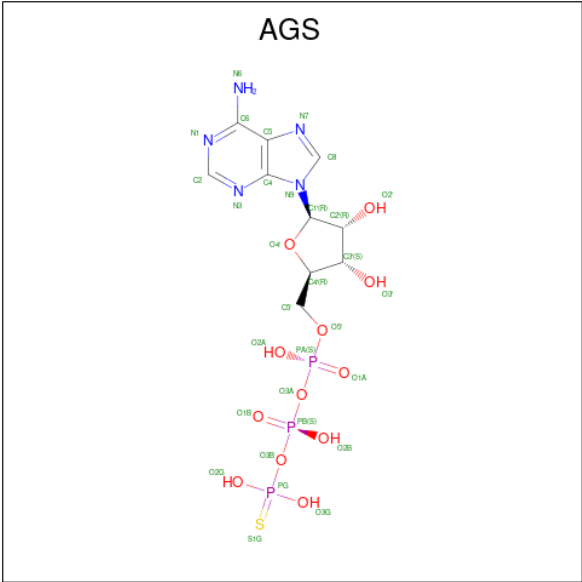


Mol	Chain	Residues	Atoms					AltConf
18	2	1	Total	C	N	O	P	0
			27	10	5	10	2	
18	3	1	Total	C	N	O	P	0
			27	10	5	10	2	

- Molecule 19 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

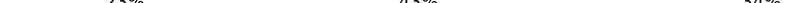
Mol	Chain	Residues	Atoms		AltConf
19	2	1	Total	Mg	0
			1	1	
19	5	2	Total	Mg	0
			2	2	
19	7	1	Total	Mg	0
			1	1	

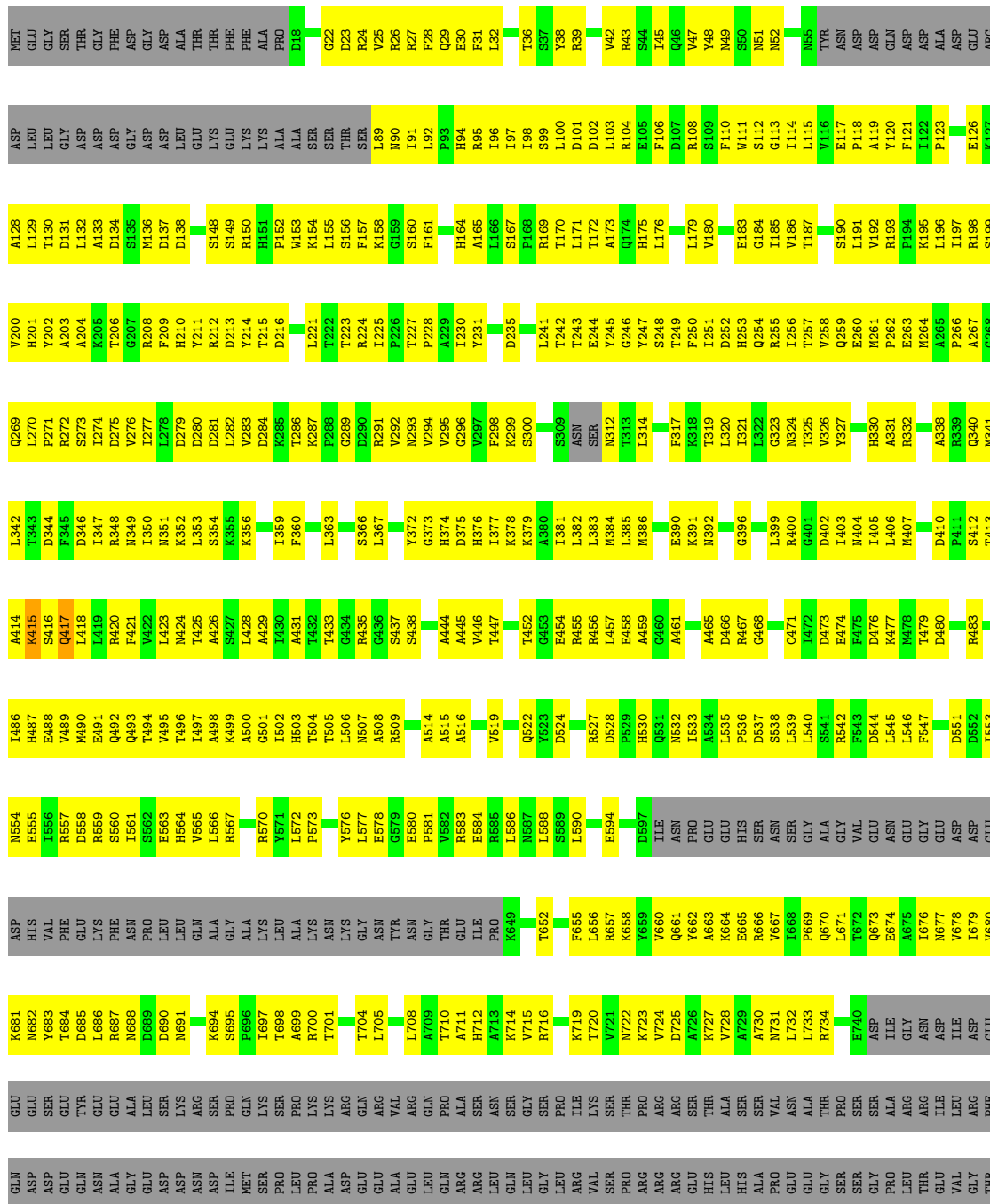
- Molecule 20 is PHOSPHOTHIOPHOSPHORIC ACID-ADENYLATE ESTER (CCD ID: AGS) (formula: C₁₀H₁₆N₅O₁₂P₃S) (labeled as "Ligand of Interest" by depositor).

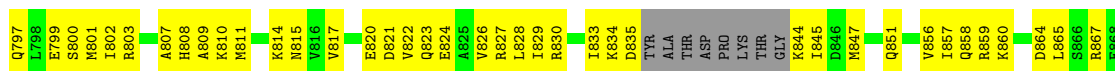
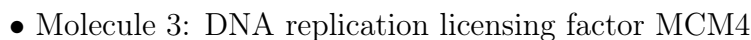


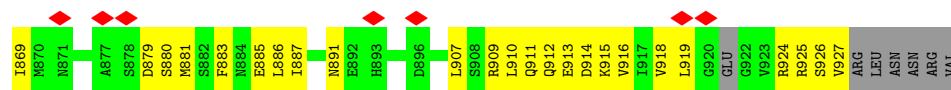
Mol	Chain	Residues	Atoms					AltConf
20	5	1	Total	C	N	O	P	S
			31	10	5	12	3	1
20	7	1	Total	C	N	O	P	S
			31	10	5	12	3	1

- Molecule 2: DNA replication licensing factor MCM3

Chain 3:  23% 43% 34%

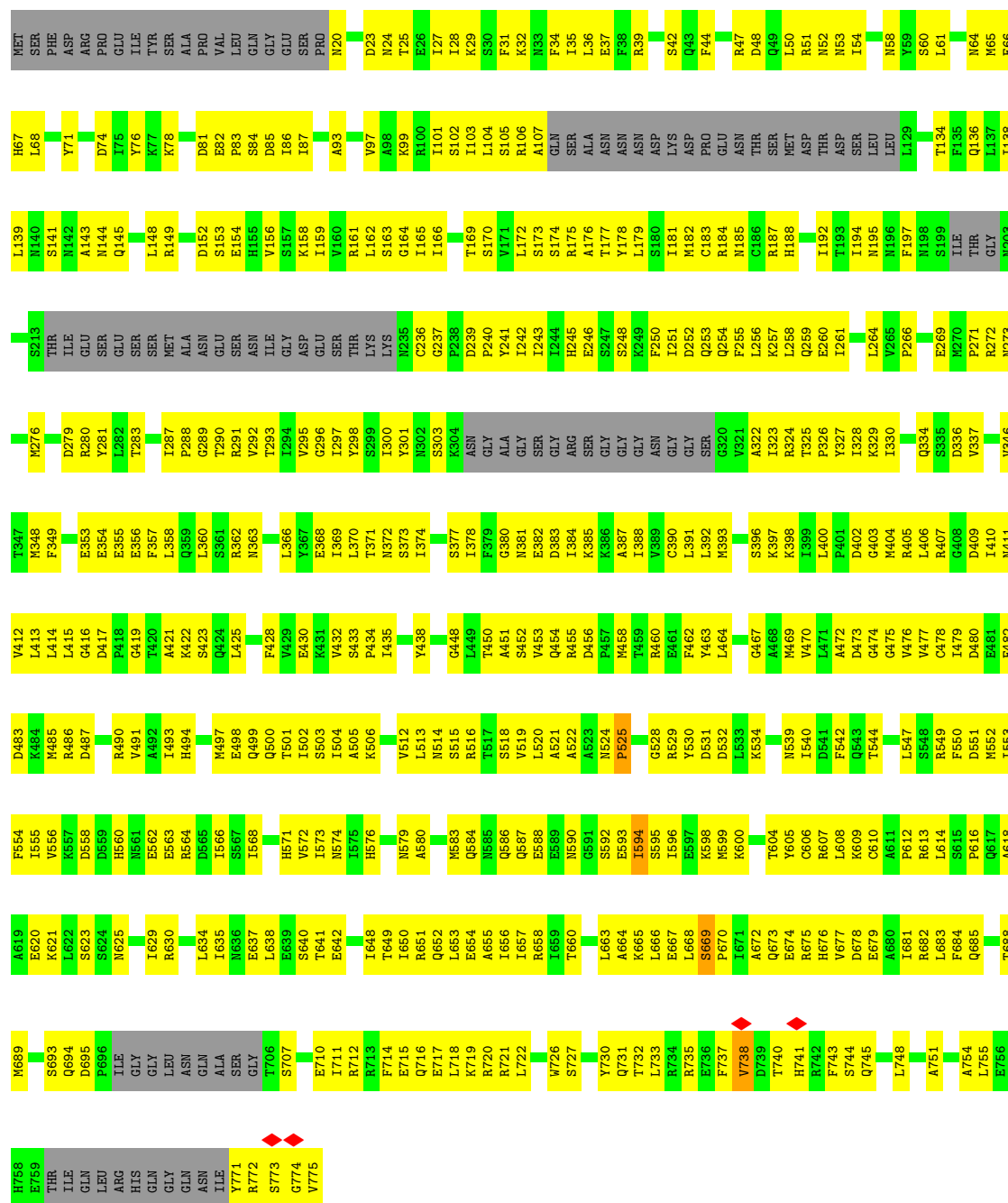






• Molecule 4: Minichromosome maintenance protein 5

Chain 5: 33% 54% 13%

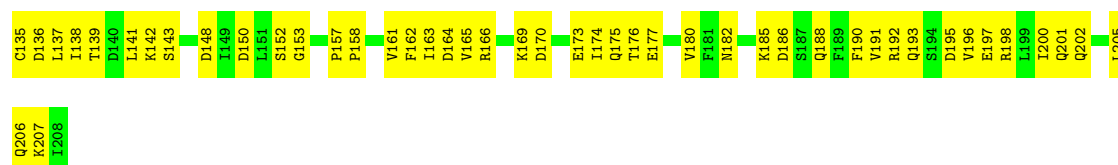


• Molecule 5: DNA replication licensing factor MCM6

Chain 6: 20% 41% 38%

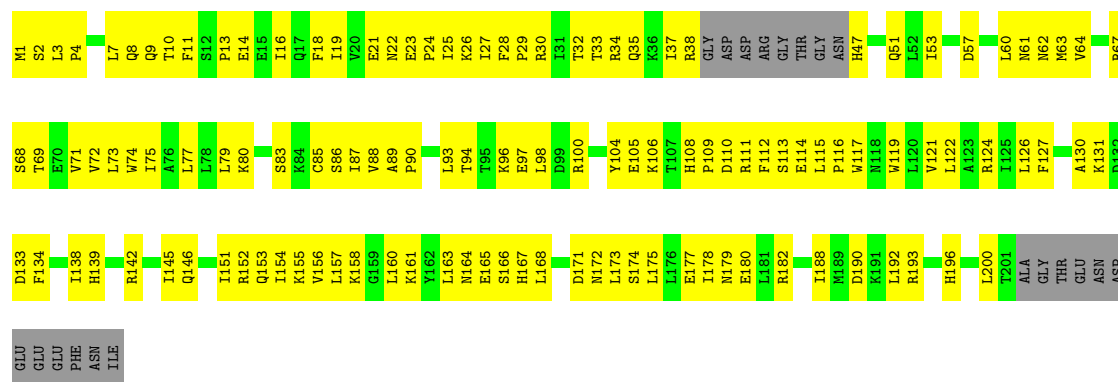
- Molecule 6: DNA replication licensing factor MCM7





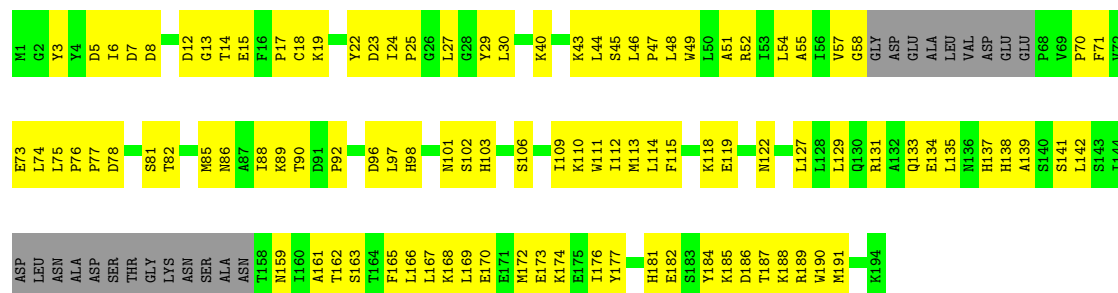
• Molecule 8: DNA replication complex GINS protein PSF2

Chain B: 33% 58% 9%



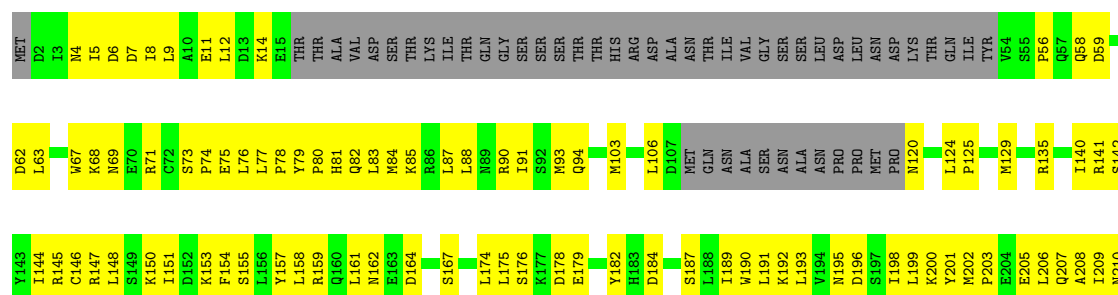
• Molecule 9: DNA replication complex GINS protein PSF3

Chain C: 36% 53% 11%

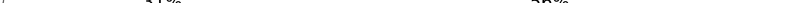


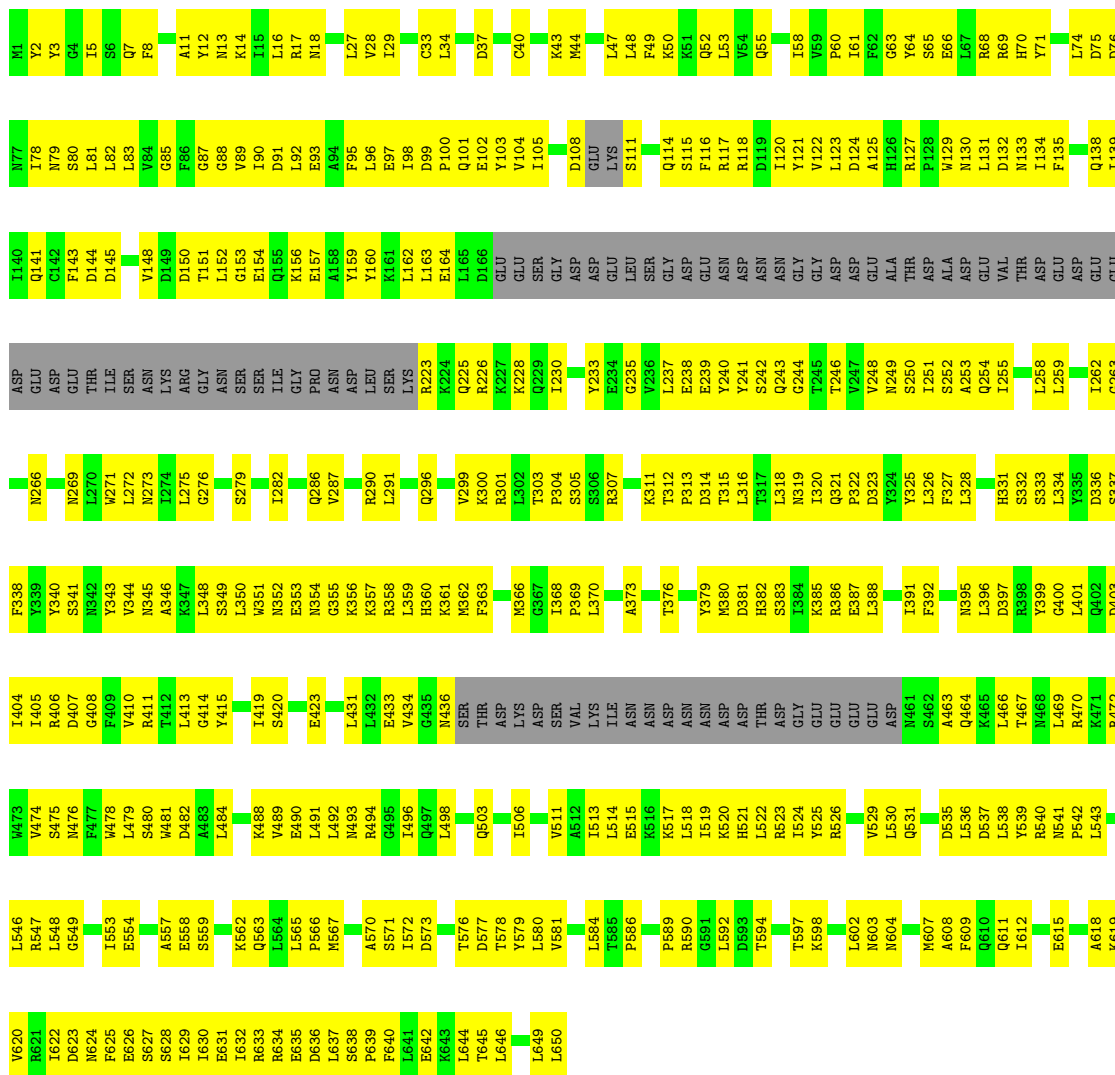
• Molecule 10: DNA replication complex GINS protein SLD5

Chain D: 32% 51% 17%



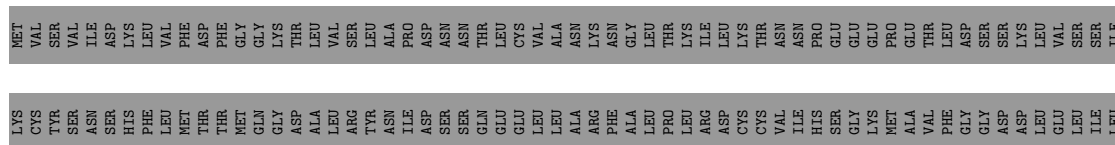
- Molecule 11: Cell division control protein 45

Chain E:  31% 56% 13%



- Molecule 12: DNA polymerase alpha-binding protein

Chain F: 20% 26% 54%



- Molecule 12: DNA polymerase alpha-binding protein

VAL	VAL	LEU	LYS	MET
ALA	VAL	GLU	TYR	VAL
ASN	SER	LEU	CYS	SER
ASP	TYR	ASP	ASN	ILE
ASP	ASP	GLU	SER	ASP
ASP	THR	THR	HIS	LYS
THR	HIS	THR	PHE	LEU
HIS	VAL	HIS	PHE	LEU
ARG	ARG	LYS	MET	PHE
ASP	ASP	ALA	THR	ASP
LYS	LYS	HIS	THR	PHE
ILE	ILE	ILE	MET	GLY
LEU	LEU	LYS	GLN	GLY
SER	SER	ILE	GLY	THR
ASN	ASN	ASP	ASP	LEU
MET	MET	GLU	ALA	LEU
MET	MET	GLN	LEU	VAL
ASP	ASP	VAL	ARG	SER
ASP	ASP	SER	TYR	SER
ILE	ILE	GLN	ASN	ALA
ASP	ASP	ILE	ILE	PRO
LYS	LYS	SER	ASP	ASN
ASP	ASP	TYR	SER	ASN
ASN	ASN	ASN	SER	ASN
ASP	ASP	SER	GLN	THR
ASN	ASN	GLN	GLU	LEU
ASP	ASP	MET	GLU	CYS
LEU	LEU	ASN	LEU	VAL
SER	SER	ILE	LEU	ALA
GLU	GLU	LEU	ALA	ALA
THR	THR	ALA	ARG	LYS
ALA	ALA	VAL	PHE	ASN
ASP	ASP	SER	ALA	GLY
PRO	PRO	MET	LEU	LEU
ASP	ASP	ILE	PRO	THR
GLU	GLU	ASN	LEU	LYS
ASN	ASN	GLY	ARG	ILE
ASN	ASN	LYS	ASP	LEU
VAL	VAL	VAL	CYS	LYS
ALA	ALA	GLN	THR	THR
ASP	ASP	ILE	VAL	ASN
PRO	PRO	PHE	ILE	ASN
GLU	GLU	SER	HIS	PRO
PHE	PHE	LEU	SER	GLU
CYS	CYS	THR	GLY	GLU
ALA	ALA	SER	LYS	GLU
ALA	ALA	THR	MET	PRO
ASN	ASN	ILE	ALA	GLU
ARG	ARG	PRO	VAL	THR
ILE	ILE	ASN	PHE	LEU
CYS	CYS	LYS	GLY	ASP
THR	THR	VAL	GLY	SER
ARG	ARG	HIS	ASP	SER
VAL	VAL	GLU	ASP	LYS
ALA	ALA	LEU	LEU	VAL
TRP	TRP	ASN	GLU	VAL
HIS	HIS	ASP	LEU	SER
PRO	PRO	TYR	ILE	SER
YS	YS	ILE	LEU	ILE

- Molecule 12: DNA polymerase alpha-binding protein





R2132	S2067	G2002	E1927	F1851	VAL	V1686	S1594	A1525	PHE	GLY	E1393
A2136	T2068	F2003	Q1931	I1858	ASN	L1687	P1595	S1526	GLU	GLY	V1324
F2137	L2069	S2004	Q1931	V1859	ASN	W1688	T1598	S1527	MET	GLN	L1325
Q2138	L2070	F2007	S1937	Y1860	MET	W1689	T1598	S1527	LYS	LEU	L1325
Q2139	L2071	F2007	S1937	Y1861	GLY	E1690	K1599	G1529	ASP	LYS	F1332
Q2143	L2072	P2010	Q1938	L1862	ILE	E1691	L1600	Q1530	LEU	ILE	P1333
E2144	R2073	L2011	Q1940	R1863	ASP	P1694	L1601	Q1531	SER	THR	P1334
E2145	R2074	M2012	L1941	R1864	ASP	L1695	Q1609	Y1532	MET	THR	V1335
H2146	R2075	R2013	K1942	R1865	LYS	P1696	K1533	K1533	ALA	LEU	L1336
L2147	R2076	R2014	K1943	I1866	ASP	D1697	Q1534	Q1534	GLU	PRO	E1337
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L2154	R2081	K2017	S1946	K1869	ASN	G1700	L1617	E1537	LEU	LEU	F1340
E2155	L2082	L2018	F1947	C1878	SER	I1701	L1618	K1538	TYR	ASN	T1341
S2156	F2083	F2019	I1948	Y1879	PRO	N1703	N1618	K1539	GLN	TYR	I1342
S2159	N2021	N2021	Q1950	A1880	SER	D1704	L1622	G1541	ILE	LYS	G1344
L2162	L2085	Q2022	P1951	Y1881	GLU	F1705	L1622	K1542	LYS	TRP	K1345
R2163	R2086	Q2023	E1952	S1882	PHE	D1706	PRO	I1543	ILE	TRP	Q1347
S2165	E2093	E2024	F1953	F1885	VAL	T1709	Q1624	E1544	ALA	ALA	V1346
C2167	F2094	F2025	E1954	M1886	HIS	D1715	L1625	T1545	GLN	GLN	I1349
C2168	R2095	L2027	D1955	K1887	ASP	E1717	L1626	Y1546	ARG	ASP	I1350
C2169	K2096	L2028	W1956	M1888	ALA	F1718	N1627	S1547	ASP	ASP	F1351
C2170	D2097	D2029	M1957	V1889	PHE	E1719	Q1628	I1556	LYS	ARG	H1352
C2171	D2098	Q2030	M1958	R1890	SER	E1720	L1635	N1557	ARG	ARG	I1353
C2172	D2099	E2032	I1960	R1891	ASP	F1721	L1635	F1558	LYS	ARG	P1354
C2173	S2100	Y2035	S1963	M1894	HIS	I1722	L1644	F1559	ARG	ARG	I1357
C2174	S2101	V2036	M1964	R1895	ASP	N1723	W1645	S1492	ASP	ARG	I1358
C2175	S2102	L2040	T1967	S1896	ASP	S1724	I1646	S1493	GLN	ASP	M1359
C2176	S2103	P2041	S1976	L1897	ASP	G1725	S1647	S1494	LEU	GLN	K1360
C2177	S2104	G2042	S1976	L1898	ASP	V1726	H1648	G1495	PHE	GLY	F1361
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C2179	S2106	L2044	S1976	D1899	ASP	I1727	L1651	I1566	THR	ASN	S1363
C2180	S2107	H2044	S1976	L1900	ASP	V1730	L1652	F1498	ASN	ASN	Q1364
C2181	S2108	L2045	S1976	M1901	ASP	V1731	L1653	F1499	SER	SER	Q1369
C2182	S2109	G2042	S1976	K1902	ASP	L1732	Q1654	S1500	SER	SER	K1370
C2183	S2110	S2043	S1976	R1904	ASP	D1733	Y1655	L1501	ARG	ARG	I1371
C2184	S2111	L2046	S1976	Y1905	ASP	V1734	S1656	F1502	GLY	GLY	N1372
C2185	S2112	N2046	S1976	W1906	ASP	G1735	S1657	K1503	ARG	ARG	N1373
C2186	S2113	N2047	S1976	D1907	ASP	V1736	N1657	S1504	SER	SER	C1374
C2187	S2114	V2047	S1976	L1910	ASP	D1737	C1661	R1571	ALA	ALA	L1375
C2188	S2115	K2048	S1976	W1911	ASP	V1741	N1662	R1572	ARG	ARG	I1376
C2189	S2116	L2049	S1976	M1912	ASP	I1744	L1665	L1573	LEU	LEU	E1377
C2190	S2117	N2049	S1976	D1913	ASP	I1744	D1666	S1574	SER	SER	K1378
C2191	S2118	L2051	S1976	K1914	ASP	L1748	D1669	Q1575	LYS	LYS	S1379
C2192	S2119	L2052	S1976	F1915	ASP	ASN	I1670	E1576	ALA	ALA	L1383
C2193	S2120	E2053	S1976	N1916	ASP	ASP	I1671	E1577	GLY	GLY	P1384
C2194	S2121	L2054	S1976	N1917	ASP	ALA	I1672	E1582	LEU	LEU	N1385
C2195	S2122	L2055	S1976	F1917	ASP	GLY	D1673	E1583	GLY	GLY	N1386
C2196	S2123	V2055	S1976	L1920	ASP	GLY	I1674	R1584	LYS	LYS	P1387
C2197	S2124	V2056	S1976	L1921	ASP	SER	L1675	G1585	ALA	ALA	K1388
C2198	S2125	S2057	S1976	I1923	ASP	LEU	Y1676	E1585	GLY	GLY	P1389
C2199	S2126	N1998	S1976	E1924	ASP	ASP	Y1677	F1588	GLN	GLN	T1389
C2200	S2127	N1998	S1976	I1925	ASP	LEU	R1678	L1589	GLY	GLY	N1390
C2201	S2128	H2060	S1976	E1926	ASP	ASP	I1685	L1590	ALA	ALA	S1320
C2202	S2129	V2061	S1976	E1926	ASP	ASP	I1685	L1591	GLY	GLY	W1322
C2203	S2130	M2062	S1976	E1926	ASP	ASP	I1685	L1592	GLY	GLY	P1392
C2204	S2131	L2064	S1976	E1926	ASP	ASP	I1685	L1593	ALA	ALA	ALA

Chain N: 35% 42% 23%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	17199	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	53	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	81000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.030	Depositor
Minimum map value	-0.192	Depositor
Average map value	0.008	Depositor
Map value standard deviation	0.054	Depositor
Recommended contour level	0.25	Depositor
Map size (Å)	466.39996, 466.39996, 466.39996	wwPDB
Map dimensions	440, 440, 440	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	2	0.20	0/5360	0.47	0/7241
2	3	0.22	0/5032	0.46	0/6827
3	4	0.15	0/5459	0.41	0/7363
4	5	0.20	1/5402 (0.0%)	0.47	0/7300
5	6	0.25	0/5036	0.58	2/6799 (0.0%)
6	7	0.27	0/5019	0.51	4/6789 (0.1%)
7	A	0.42	1/1653 (0.1%)	0.66	1/2224 (0.0%)
8	B	0.18	0/1650	0.35	0/2231
9	C	0.17	0/1420	0.37	0/1918
10	D	0.19	0/2040	0.40	0/2755
11	E	0.17	0/4685	0.37	0/6343
12	F	0.17	0/3489	0.39	1/4724 (0.0%)
12	G	0.16	0/3465	0.41	0/4696
12	H	0.15	0/3496	0.38	0/4735
13	I	0.16	0/339	0.42	0/520
14	J	0.13	0/177	0.23	0/269
15	M	0.28	1/6586 (0.0%)	0.47	0/8926
16	N	0.19	0/4290	0.41	0/5811
All	All	0.22	3/64598 (0.0%)	0.45	8/87471 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5	525	PRO	N-CD	-5.60	1.40	1.47
7	A	61	GLY	C-O	5.28	1.31	1.23
15	M	1941	LEU	C-O	5.22	1.30	1.24

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	A	57	GLN	CA-C-O	-5.69	114.81	121.07
12	F	762	ILE	N-CA-C	-5.15	107.32	111.91
5	6	116	GLU	CA-C-N	-5.14	112.13	120.72
5	6	116	GLU	C-N-CA	-5.14	112.13	120.72
6	7	620	HIS	CA-C-N	5.12	131.31	121.54
6	7	620	HIS	C-N-CA	5.12	131.31	121.54
6	7	291	GLN	CA-C-N	5.10	131.28	121.54
6	7	291	GLN	C-N-CA	5.10	131.28	121.54

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	5270	0	5304	455	0
2	3	4948	0	4991	440	0
3	4	5390	0	5467	432	0
4	5	5325	0	5351	449	0
5	6	4955	0	4959	523	0
6	7	4945	0	4987	421	0
7	A	1633	0	1631	161	0
8	B	1617	0	1674	130	0
9	C	1387	0	1405	106	0
10	D	2004	0	2001	152	0
11	E	4599	0	4584	337	0
12	F	3404	0	3352	231	0
12	G	3380	0	3310	233	0
12	H	3411	0	3355	235	0
13	I	307	0	178	12	0
14	J	159	0	90	2	0
15	M	6447	0	6368	410	0
16	N	4199	0	4163	260	0
17	2	1	0	0	0	0
17	4	1	0	0	0	0
17	5	1	0	0	0	0
17	6	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	7	1	0	0	0	0
17	M	2	0	0	0	0
18	2	27	0	12	20	0
18	3	27	0	12	16	0
19	2	1	0	0	0	0
19	5	2	0	0	0	0
19	7	1	0	0	0	0
20	5	31	0	12	12	0
20	7	31	0	12	9	0
All	All	63507	0	63218	4674	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 (4674) 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)
3:4:802:ILE:HG13	5:6:736:MET:SD	1.57	1.44
5:6:735:HIS:O	5:6:736:MET:HG2	1.28	1.32
3:4:802:ILE:CG1	5:6:736:MET:SD	2.21	1.28
3:4:802:ILE:CD1	5:6:736:MET:SD	2.27	1.22
2:3:499:LYS:HA	6:7:490:GLY:HA2	1.19	1.16
6:7:480:GLY:HA2	6:7:520:ILE:HB	1.23	1.15
1:2:546:GLY:H	18:2:902:ADP:PB	1.83	1.02
2:3:499:LYS:CA	6:7:490:GLY:HA2	1.90	1.01
6:7:412:ASN:HA	6:7:430:LYS:NZ	1.75	1.01
3:4:371:CYS:HB2	3:4:376:CYS:SG	2.00	1.00
15:M:1341:THR:HA	15:M:1346:VAL:CA	1.93	0.99
5:6:735:HIS:O	5:6:736:MET:CG	2.11	0.98
6:7:262:CYS:HB3	6:7:265:CYS:SG	2.05	0.97
15:M:1341:THR:CA	15:M:1346:VAL:HA	1.93	0.97
15:M:1341:THR:HA	15:M:1346:VAL:HA	0.98	0.96
15:M:1939:TRP:HB3	15:M:1942:LYS:HB2	1.48	0.95
6:7:245:ILE:HA	6:7:315:ILE:HA	1.50	0.94
3:4:802:ILE:HD12	5:6:736:MET:SD	2.06	0.94
3:4:352:CYS:HB2	3:4:376:CYS:HB3	1.51	0.93
15:M:1956:TRP:HE1	15:M:2014:ARG:HG2	1.34	0.92
6:7:412:ASN:HA	6:7:430:LYS:HZ2	1.27	0.91
3:4:802:ILE:HG13	5:6:736:MET:CE	1.99	0.91
1:2:213:SER:O	1:2:217:GLU:HB2	1.71	0.90
4:5:772:ARG:HB2	15:M:2187:GLY:HA3	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1945:LEU:HD23	15:M:1950:GLN:HA	1.53	0.90
6:7:460:GLY:HA2	6:7:600:MET:H	1.36	0.89
6:7:496:ALA:H	6:7:513:LEU:H	1.20	0.89
15:M:1371:ILE:HA	15:M:1406:VAL:HG13	1.55	0.88
4:5:416:GLY:HA3	4:5:556:VAL:HB	1.56	0.88
15:M:2022:GLN:HA	15:M:2025:PHE:HB2	1.55	0.87
2:3:687:ARG:HE	6:7:609:ASP:HB3	1.39	0.87
9:C:12:ASP:HB3	9:C:49:TRP:HB3	1.57	0.87
3:4:224:LEU:HD22	3:4:227:ILE:HG12	1.55	0.87
4:5:771:TYR:N	15:M:2188:THR:HG1	1.72	0.87
1:2:311:GLU:HA	1:2:314:LEU:HD13	1.55	0.87
15:M:2026:ILE:HD12	15:M:2027:LEU:HG	1.57	0.86
1:2:344:CYS:HB3	1:2:366:ASN:HB2	1.57	0.86
2:3:499:LYS:HA	6:7:490:GLY:CA	2.03	0.85
5:6:308:SER:HB2	5:6:350:ARG:HG2	1.57	0.85
11:E:553:ILE:HG12	11:E:567:MET:HG3	1.58	0.85
3:4:808:HIS:HA	3:4:811:MET:HE2	1.59	0.84
1:2:259:PHE:HB3	1:2:267:MET:HE1	1.59	0.84
5:6:776:LYS:HD2	5:6:824:ILE:HG22	1.59	0.84
1:2:393:ALA:HB2	1:2:459:ARG:HH12	1.42	0.84
2:3:24:ARG:HG2	2:3:27:ARG:HH21	1.43	0.84
2:3:581:PRO:HG2	2:3:583:ARG:HH12	1.43	0.83
5:6:735:HIS:O	5:6:736:MET:CE	2.25	0.83
7:A:73:PHE:HA	7:A:76:LEU:HD12	1.58	0.83
5:6:828:TYR:HA	5:6:831:LEU:HD12	1.60	0.83
12:H:534:TYR:HD1	12:H:548:GLN:HB2	1.42	0.83
2:3:203:ALA:HB2	2:3:241:LEU:H	1.42	0.83
8:B:112:PHE:HB2	8:B:172:ASN:HB2	1.59	0.83
15:M:1354:PRO:HB3	15:M:1407:PHE:HA	1.60	0.83
2:3:454:GLU:HG2	2:3:456:ARG:HH12	1.44	0.82
4:5:292:VAL:HA	4:5:336:ASP:H	1.41	0.82
2:3:660:VAL:HG12	2:3:664:LYS:HZ3	1.42	0.82
15:M:1939:TRP:HB3	15:M:1942:LYS:CB	2.09	0.82
12:G:641:SER:HA	12:G:650:TYR:HA	1.62	0.82
1:2:543:GLY:HA2	1:2:683:VAL:HB	1.62	0.81
12:G:883:LEU:HD23	12:G:913:LYS:HE2	1.62	0.81
2:3:412:SER:HA	18:3:1001:ADP:H5'1	1.61	0.81
4:5:421:ALA:HA	20:5:803:AGS:H3'	1.61	0.81
5:6:294:VAL:HB	5:6:361:ILE:HG22	1.60	0.81
6:7:334:HIS:HB2	6:7:377:GLU:HG2	1.63	0.81
5:6:589:VAL:HG21	5:6:597:TYR:HB2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:H:697:ILE:HB	12:H:705:LEU:HB2	1.63	0.81
4:5:145:GLN:HG2	4:5:161:ARG:HG2	1.61	0.80
3:4:762:ILE:HA	3:4:817:VAL:HB	1.64	0.80
6:7:496:ALA:HB2	6:7:513:LEU:HB2	1.60	0.80
3:4:182:GLY:HA3	6:7:303:ARG:HH12	1.45	0.80
3:4:435:VAL:HG13	3:4:466:VAL:HG12	1.62	0.80
3:4:801:MET:HE1	3:4:829:ILE:HG13	1.63	0.80
5:6:143:MET:O	5:6:147:ASP:N	2.15	0.80
7:A:84:ARG:NH2	9:C:3:TYR:O	2.15	0.80
5:6:183:LYS:HA	5:6:187:ARG:NH2	1.96	0.80
6:7:453:ASP:HA	6:7:560:ARG:HE	1.43	0.80
12:G:777:ARG:HA	12:G:829:ARG:HE	1.47	0.80
6:7:462:PRO:HG2	6:7:572:GLY:HA2	1.63	0.80
4:5:165:ILE:HA	4:5:291:ARG:HA	1.62	0.79
12:H:512:SER:HA	12:H:529:GLU:HA	1.63	0.79
12:F:573:GLN:HG3	12:F:576:GLU:HB2	1.63	0.79
4:5:482:PHE:O	4:5:490:ARG:NH1	2.14	0.79
11:E:322:PRO:HA	11:E:407:ASP:HA	1.65	0.79
1:2:265:GLU:HA	1:2:268:LEU:HD12	1.65	0.79
4:5:771:TYR:N	15:M:2188:THR:OG1	2.16	0.79
12:H:704:LEU:HB3	12:H:722:LEU:HB3	1.63	0.79
5:6:705:ILE:HA	5:6:708:ARG:HD2	1.65	0.79
4:5:358:LEU:HB2	4:5:362:ARG:HH21	1.46	0.78
1:2:705:ARG:HA	1:2:744:ARG:HD3	1.65	0.78
15:M:1362:LYS:HE3	15:M:1374:CYS:HA	1.65	0.78
2:3:498:ALA:HA	2:3:503:HIS:HA	1.64	0.78
10:D:249:ASN:HB2	10:D:255:CYS:HB3	1.65	0.78
16:N:529:PRO:O	16:N:531:ARG:NH1	2.17	0.78
2:3:202:TYR:HB2	2:3:209:PHE:HA	1.65	0.78
12:F:846:GLU:HG2	12:F:851:GLU:HB2	1.65	0.78
15:M:1878:CYS:O	15:M:1882:SER:N	2.17	0.78
16:N:70:TRP:HB3	16:N:72:GLN:HG2	1.65	0.78
5:6:693:LEU:HD23	5:6:698:ASN:HA	1.65	0.77
12:H:568:LYS:HZ3	12:H:604:GLY:HA3	1.50	0.77
1:2:546:GLY:HA2	18:2:902:ADP:H5'1	1.66	0.77
12:F:619:THR:HB	12:F:626:PHE:HB3	1.64	0.77
5:6:363:GLU:HG2	5:6:374:PRO:HA	1.67	0.77
16:N:515:LYS:HA	16:N:518:LYS:HG2	1.64	0.77
3:4:587:ARG:HH12	3:4:755:LYS:HD3	1.49	0.77
4:5:469:MET:HA	4:5:472:ALA:HB3	1.66	0.77
12:H:729:TRP:HD1	12:H:736:GLU:HG2	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:613:ARG:HG3	4:5:616:PRO:HD3	1.65	0.77
5:6:776:LYS:HD3	5:6:828:TYR:HB2	1.66	0.77
2:3:665:GLU:OE1	2:3:666:ARG:NH1	2.18	0.77
2:3:391:LYS:HB2	2:3:399:LEU:HB2	1.65	0.77
12:G:868:ARG:NH1	12:G:868:ARG:O	2.17	0.77
5:6:723:ILE:HG13	5:6:727:LEU:HB2	1.67	0.76
8:B:32:THR:HA	8:B:64:VAL:HA	1.67	0.76
11:E:89:VAL:HG12	11:E:129:TRP:H	1.48	0.76
3:4:778:ARG:HD2	3:4:793:ALA:HB3	1.67	0.76
5:6:699:LEU:HD13	5:6:701:MET:HB3	1.67	0.76
6:7:238:LEU:HA	6:7:354:ILE:HA	1.68	0.76
6:7:353:GLY:HA3	6:7:378:ALA:HA	1.66	0.76
3:4:340:PRO:HG2	5:6:452:ILE:HD12	1.67	0.76
4:5:502:ILE:N	4:5:513:LEU:O	2.17	0.76
5:6:173:GLN:O	5:6:176:ARG:NH1	2.18	0.76
1:2:546:GLY:N	18:2:902:ADP:O1B	2.18	0.76
4:5:499:GLN:HG3	4:5:501:THR:H	1.49	0.76
4:5:410:ILE:HG21	4:5:552:MET:HE3	1.67	0.76
8:B:21:GLU:HB3	8:B:74:TRP:HB3	1.66	0.76
15:M:2164:CYS:SG	15:M:2165:SER:N	2.59	0.76
2:3:488:GLU:H	2:3:539:LEU:HD13	1.50	0.76
10:D:253:LYS:HZ1	10:D:271:ILE:H	1.33	0.76
1:2:243:GLU:HA	1:2:296:ARG:HB2	1.66	0.76
1:2:338:LYS:HB2	1:2:376:ASN:HB2	1.68	0.76
2:3:195:LYS:HD3	6:7:371:LEU:H	1.50	0.76
3:4:371:CYS:H	3:4:377:ASN:HA	1.49	0.75
4:5:397:LYS:HD3	4:5:405:ARG:HD2	1.67	0.75
6:7:708:VAL:HG13	6:7:710:ILE:H	1.51	0.75
2:3:445:ALA:HB3	2:3:458:GLU:HB2	1.69	0.75
2:3:730:ALA:HB1	2:3:734:ARG:HH21	1.50	0.75
5:6:711:LEU:HD11	5:6:831:LEU:HD23	1.69	0.75
1:2:424:VAL:HA	1:2:459:ARG:H	1.50	0.75
4:5:727:SER:HB3	4:5:732:THR:HB	1.67	0.75
6:7:662:GLN:HG3	6:7:666:ARG:HE	1.49	0.75
2:3:674:GLU:HG2	2:3:723:LYS:HB3	1.66	0.75
12:F:624:ARG:HH21	12:F:693:GLY:HA3	1.51	0.75
3:4:545:PHE:HA	3:4:751:ILE:HD11	1.66	0.75
8:B:1:MET:O	10:D:145:ARG:NH2	2.18	0.75
1:2:295:VAL:HB	1:2:454:ASN:HD21	1.50	0.75
2:3:372:TYR:HB3	2:3:561:ILE:HD13	1.68	0.75
7:A:173:GLU:HA	7:A:182:ASN:HA	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:N:23:ARG:HG3	16:N:27:ARG:HH21	1.51	0.75
2:3:38:TYR:OH	2:3:102:ASP:OD2	2.04	0.75
12:F:639:SER:HB2	12:F:654:GLU:H	1.51	0.75
2:3:192:VAL:HB	2:3:252:ASP:HB3	1.68	0.75
5:6:581:LYS:NZ	5:6:639:ASP:OD1	2.19	0.75
1:2:267:MET:HA	1:2:270:ILE:HD12	1.69	0.74
11:E:238:GLU:HA	11:E:241:TYR:HB2	1.68	0.74
15:M:1862:ASP:OD1	15:M:1914:LYS:NZ	2.20	0.74
6:7:204:PHE:H	6:7:379:GLN:HB3	1.52	0.74
8:B:109:PRO:HA	8:B:155:LYS:HE2	1.70	0.74
12:G:584:THR:HG23	12:G:622:ASN:HA	1.69	0.74
1:2:794:ARG:HH22	1:2:805:ILE:HB	1.52	0.74
4:5:148:LEU:HD22	4:5:260:GLU:HB3	1.69	0.74
6:7:470:LEU:HD23	6:7:482:TYR:HE1	1.53	0.74
2:3:101:ASP:HA	2:3:104:ARG:HD3	1.70	0.74
12:F:720:PRO:HG3	12:G:611:LYS:HB2	1.68	0.74
6:7:496:ALA:N	6:7:513:LEU:H	1.85	0.74
7:A:46:ASN:HA	7:A:49:LYS:HD2	1.68	0.74
11:E:287:VAL:HG13	11:E:290:ARG:HH22	1.51	0.74
15:M:2151:ARG:HB3	16:N:494:MET:HE1	1.70	0.74
7:A:71:GLN:NE2	9:C:27:LEU:HG	2.03	0.74
1:2:663:LEU:HD13	1:2:848:ALA:HB1	1.70	0.74
4:5:174:SER:HB2	4:5:250:PHE:HB3	1.70	0.73
1:2:780:GLN:NE2	1:2:829:VAL:O	2.21	0.73
4:5:143:ALA:O	4:5:161:ARG:NH1	2.21	0.73
6:7:14:TYR:HA	6:7:17:LEU:HD12	1.68	0.73
10:D:176:SER:OG	10:D:178:ASP:OD1	2.05	0.73
12:G:682:MET:HG2	12:G:684:ILE:H	1.54	0.73
2:3:373:GLY:O	2:3:378:LYS:NZ	2.22	0.73
5:6:732:VAL:HG23	5:6:738:ARG:HH12	1.54	0.73
7:A:53:TYR:O	7:A:57:GLN:N	2.21	0.73
11:E:530:LEU:HB2	11:E:571:SER:HA	1.70	0.73
6:7:608:ASP:HA	6:7:611:LYS:HD3	1.69	0.73
16:N:18:ARG:HA	16:N:38:LEU:HD11	1.69	0.73
2:3:99:SER:HA	2:3:158:LYS:H	1.54	0.73
3:4:349:CYS:HB3	3:4:352:CYS:HB3	1.70	0.73
6:7:415:ALA:CB	6:7:430:LYS:HD3	2.19	0.73
6:7:573:ARG:NH2	6:7:575:ASN:OD1	2.21	0.73
12:H:864:LYS:HB3	12:H:868:ARG:NH1	2.04	0.73
16:N:326:VAL:HA	16:N:347:PRO:HD3	1.69	0.73
6:7:648:LYS:HZ2	6:7:705:ALA:HA	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:H:486:PHE:HA	12:H:492:ARG:HG3	1.71	0.73
12:H:493:TYR:HA	12:H:503:SER:HA	1.69	0.73
1:2:244:VAL:HG21	1:2:297:ILE:HD13	1.70	0.73
2:3:171:LEU:HA	2:3:175:HIS:HE2	1.52	0.73
4:5:36:LEU:O	4:5:47:ARG:NH1	2.21	0.73
7:A:103:ASN:O	7:A:107:LEU:HB2	1.88	0.73
1:2:364:CYS:HB3	1:2:367:CYS:SG	2.28	0.73
2:3:99:SER:HB2	2:3:158:LYS:HB2	1.69	0.73
2:3:407:MET:HE1	2:3:415:LYS:CG	2.19	0.73
8:B:24:PRO:HA	8:B:72:VAL:HA	1.71	0.73
3:4:380:ASN:HA	5:6:441:ARG:HG3	1.68	0.73
3:4:524:ARG:NH2	3:4:527:ALA:O	2.22	0.72
10:D:74:PRO:HG3	10:D:226:LYS:HD2	1.70	0.72
15:M:1487:LEU:HD21	15:M:1580:LEU:HD11	1.71	0.72
15:M:1575:GLN:OE1	15:M:1579:LYS:NZ	2.20	0.72
3:4:343:LYS:HD3	3:4:392:ALA:HB2	1.71	0.72
3:4:353:ASP:HB3	3:4:373:ARG:HH22	1.53	0.72
4:5:771:TYR:HD2	15:M:2160:GLN:HB3	1.54	0.72
12:F:591:GLY:HA3	12:F:615:ILE:HD11	1.70	0.72
1:2:667:VAL:HG12	1:2:669:LEU:H	1.54	0.72
7:A:51:THR:HG21	7:A:79:MET:HE1	1.70	0.72
7:A:170:ASP:HB2	7:A:185:LYS:HB2	1.72	0.72
2:3:577:LEU:HB3	2:3:580:GLU:HB2	1.70	0.72
3:4:446:ALA:H	3:4:453:LEU:HA	1.54	0.72
12:G:619:THR:HB	12:G:626:PHE:HB3	1.71	0.72
6:7:143:LEU:O	6:7:147:ARG:NH1	2.23	0.72
2:3:95:ARG:NH2	2:3:155:LEU:O	2.23	0.72
5:6:653:HIS:CD2	5:6:705:ILE:HD13	2.24	0.72
6:7:142:ILE:O	6:7:146:ARG:NH1	2.23	0.72
12:H:883:LEU:HD23	12:H:913:LYS:HE2	1.71	0.72
1:2:793:LEU:HB3	1:2:805:ILE:HG21	1.70	0.72
5:6:541:GLU:HA	5:6:544:LYS:HE2	1.71	0.72
12:F:478:PRO:HD3	12:F:577:ARG:HD2	1.72	0.72
5:6:657:GLU:OE1	5:6:658:GLN:NE2	2.23	0.72
8:B:80:LYS:NZ	8:B:133:ASP:OD2	2.23	0.71
1:2:546:GLY:N	18:2:902:ADP:PB	2.63	0.71
4:5:711:ILE:HD12	4:5:757:LYS:HZ1	1.55	0.71
6:7:486:LYS:HB2	6:7:528:LYS:O	1.91	0.71
15:M:1725:GLY:HA2	15:M:2064:LEU:HB3	1.72	0.71
15:M:1733:ASP:HA	15:M:1902:ILE:HG13	1.72	0.71
1:2:813:ILE:HG12	1:2:841:VAL:HG11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:551:THR:HG21	3:4:668:ARG:HH22	1.55	0.71
3:4:909:ARG:HD2	5:6:693:LEU:HA	1.72	0.71
6:7:454:ILE:H	6:7:560:ARG:HH21	1.37	0.71
15:M:1942:LYS:HG2	15:M:1953:PHE:CD2	2.25	0.71
1:2:245:ASN:ND2	1:2:299:ASP:OD2	2.24	0.71
1:2:541:LEU:HA	1:2:681:CYS:HB3	1.71	0.71
3:4:190:CYS:HB3	3:4:257:LEU:HD13	1.71	0.71
9:C:135:LEU:HD11	9:C:177:TYR:HB2	1.72	0.71
1:2:525:LYS:HB3	1:2:533:ILE:HB	1.72	0.71
1:2:627:GLN:O	1:2:641:GLN:NE2	2.23	0.71
2:3:36:THR:HA	2:3:39:ARG:HE	1.56	0.71
5:6:183:LYS:HA	5:6:187:ARG:HH21	1.54	0.71
5:6:275:ARG:HG2	5:6:276:ILE:H	1.55	0.71
10:D:288:ASP:HB3	10:D:290:LYS:HD3	1.72	0.71
5:6:611:ALA:HB3	5:6:624:GLU:HB3	1.71	0.71
9:C:170:GLU:HG2	9:C:172:MET:HG3	1.73	0.71
4:5:413:LEU:HD11	4:5:550:PHE:HB3	1.71	0.71
5:6:600:GLY:HA2	5:6:644:MET:SD	2.31	0.71
11:E:356:LYS:O	11:E:360:HIS:ND1	2.24	0.71
12:H:491:ARG:HD3	12:H:766:PHE:HB2	1.71	0.71
2:3:447:THR:HB	13:I:53:DT:H5"	1.71	0.71
4:5:141:SER:O	11:E:379:TYR:OH	2.09	0.71
16:N:12:ILE:HD13	16:N:46:GLY:HA3	1.71	0.71
3:4:654:ILE:HB	3:4:665:LEU:HB2	1.72	0.71
6:7:228:ARG:HH21	6:7:326:HIS:HB3	1.56	0.71
11:E:60:PRO:HG2	11:E:474:VAL:HG13	1.71	0.71
2:3:161:PHE:HD2	2:3:165:ALA:HB2	1.56	0.70
3:4:245:ALA:HA	3:4:248:LEU:HD12	1.71	0.70
12:F:895:LEU:HB2	12:F:918:ARG:HH11	1.56	0.70
2:3:404:ASN:O	2:3:544:ASP:N	2.24	0.70
4:5:47:ARG:HH21	8:B:146:GLN:HG2	1.56	0.70
3:4:666:ASN:HD21	3:4:668:ARG:HE	1.39	0.70
3:4:802:ILE:HD11	5:6:736:MET:SD	2.28	0.70
11:E:325:TYR:HB2	11:E:406:ARG:HH22	1.56	0.70
15:M:1651:LYS:HD3	15:M:1806:ASN:HD21	1.54	0.70
16:N:432:LEU:HD23	16:N:481:MET:HG3	1.74	0.70
1:2:327:ARG:HH12	1:2:416:ASP:HA	1.56	0.70
1:2:845:PHE:O	1:2:849:GLN:NE2	2.22	0.70
2:3:179:LEU:HD11	2:3:295:VAL:HG12	1.73	0.70
12:G:601:ASN:OD1	12:G:605:VAL:N	2.23	0.70
15:M:1324:VAL:HA	15:M:1661:CYS:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:415:LYS:N	18:3:1001:ADP:O3B	2.24	0.70
5:6:690:ASN:HD22	5:6:693:LEU:HD13	1.56	0.70
1:2:744:ARG:HH21	1:2:747:ARG:HH11	1.40	0.70
2:3:455:ARG:HH22	6:7:499:LYS:HZ3	1.40	0.70
5:6:114:ALA:O	5:6:161:ARG:NH1	2.24	0.70
12:H:864:LYS:HB3	12:H:868:ARG:HH12	1.57	0.70
3:4:332:VAL:HG21	3:4:397:ILE:HG12	1.72	0.70
3:4:572:THR:O	3:4:576:GLN:NE2	2.25	0.70
1:2:549:LYS:HE2	18:2:902:ADP:O1B	1.92	0.70
1:2:743:ARG:HA	1:2:746:GLN:HG2	1.73	0.70
2:3:169:ARG:NH2	2:3:270:LEU:O	2.25	0.70
2:3:347:ILE:O	2:3:351:ASN:ND2	2.24	0.70
5:6:793:TYR:O	5:6:796:THR:OG1	2.09	0.70
12:G:535:ASP:H	12:G:548:GLN:HA	1.57	0.70
15:M:1482:MET:HE2	15:M:1589:LEU:HD23	1.74	0.70
1:2:295:VAL:O	1:2:296:ARG:NH1	2.25	0.70
3:4:543:GLN:HG3	3:4:562:ILE:HB	1.74	0.70
5:6:293:THR:HG23	5:6:394:ARG:HB3	1.72	0.70
8:B:64:VAL:HB	8:B:67:ARG:HD3	1.73	0.70
11:E:103:TYR:HE2	11:E:118:ARG:HB2	1.57	0.70
12:F:684:ILE:HA	12:F:699:GLY:HA2	1.74	0.70
2:3:186:VAL:O	2:3:289:GLY:N	2.16	0.69
3:4:340:PRO:HA	3:4:393:ASP:HA	1.72	0.69
3:4:639:ASP:HA	3:4:642:ARG:HD2	1.74	0.69
5:6:641:PHE:HA	5:6:644:MET:HE2	1.74	0.69
11:E:354:ASN:HA	11:E:357:LYS:HD2	1.73	0.69
1:2:227:TYR:OH	1:2:247:ARG:O	2.09	0.69
2:3:354:SER:HA	2:3:359:ILE:HG21	1.73	0.69
4:5:287:ILE:O	4:5:290:THR:OG1	2.10	0.69
5:6:144:LYS:HB2	5:6:261:ARG:HH21	1.57	0.69
6:7:29:LYS:HA	6:7:61:PRO:HA	1.74	0.69
6:7:228:ARG:NH1	6:7:317:GLU:OE2	2.24	0.69
6:7:274:ASN:O	6:7:276:ARG:NH1	2.26	0.69
8:B:22:ASN:OD1	10:D:135:ARG:NH2	2.22	0.69
11:E:34:LEU:HB3	11:E:543:LEU:HD21	1.74	0.69
15:M:1369:GLN:HE21	15:M:1413:ASN:HB2	1.57	0.69
15:M:2167:CYS:SG	15:M:2169:LYS:NZ	2.62	0.69
3:4:443:PRO:HA	3:4:457:TYR:HA	1.74	0.69
5:6:736:MET:O	5:6:739:ASP:HB2	1.92	0.69
6:7:111:ASN:OD1	6:7:112:HIS:N	2.25	0.69
12:F:685:LYS:HB2	12:F:698:PHE:HD2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:H:631:SER:HB3	12:H:634:HIS:HB2	1.75	0.69
12:H:772:SER:HB3	12:H:774:MET:HE3	1.74	0.69
6:7:64:MET:HG3	6:7:67:LEU:HD12	1.74	0.69
6:7:648:LYS:NZ	6:7:705:ALA:HA	2.07	0.69
12:H:826:GLU:HA	12:H:829:ARG:HE	1.58	0.69
1:2:824:ARG:HH21	1:2:826:SER:HB3	1.58	0.69
3:4:366:GLN:O	5:6:439:GLY:N	2.26	0.69
3:4:758:ILE:O	3:4:810:LYS:NZ	2.26	0.69
5:6:735:HIS:C	5:6:736:MET:HG2	2.16	0.69
7:A:175:GLN:NE2	16:N:35:SER:OG	2.26	0.69
8:B:179:ASN:HA	8:B:182:ARG:HE	1.56	0.69
12:G:643:LEU:HD12	12:G:648:LYS:HG3	1.73	0.69
2:3:537:ASP:HA	2:3:540:LEU:HB3	1.73	0.69
4:5:276:MET:HG3	4:5:328:ILE:HB	1.73	0.69
6:7:402:MET:SD	6:7:703:ARG:NH1	2.65	0.69
7:A:53:TYR:O	7:A:57:GLN:HB2	1.93	0.69
12:H:525:GLU:OE1	12:H:527:HIS:ND1	2.25	0.69
3:4:238:THR:OG1	3:4:240:ASN:OD1	2.10	0.69
1:2:391:GLN:HE21	1:2:403:PRO:HG2	1.56	0.69
4:5:485:MET:O	4:5:490:ARG:NH1	2.26	0.69
11:E:611:GLN:NE2	11:E:615:GLU:OE2	2.26	0.69
2:3:183:GLU:HA	2:3:293:ASN:HA	1.75	0.68
4:5:775:VAL:HG13	15:M:2193:SER:HB3	1.74	0.68
9:C:92:PRO:O	9:C:131:ARG:NH1	2.24	0.68
11:E:92:LEU:O	11:E:96:LEU:N	2.26	0.68
11:E:513:ILE:HG22	11:E:518:LEU:HD12	1.75	0.68
4:5:455:ARG:HE	4:5:460:ARG:HA	1.58	0.68
4:5:540:ILE:HG21	4:5:547:LEU:HD11	1.75	0.68
5:6:187:ARG:HA	5:6:190:ARG:HB2	1.74	0.68
12:F:886:ALA:HA	12:F:889:LEU:HD12	1.74	0.68
12:H:682:MET:HG2	12:H:684:ILE:H	1.57	0.68
1:2:218:TYR:HE2	1:2:248:HIS:HB3	1.58	0.68
4:5:136:GLN:OE1	4:5:280:ARG:NH1	2.26	0.68
6:7:646:LYS:HA	6:7:701:LYS:HD2	1.74	0.68
11:E:89:VAL:O	11:E:130:ASN:ND2	2.26	0.68
12:F:501:TYR:O	12:F:516:SER:OG	2.12	0.68
15:M:1509:ILE:HD13	15:M:1556:ILE:HG21	1.75	0.68
15:M:1535:MET:HA	15:M:1538:LYS:HB2	1.73	0.68
2:3:331:ALA:HB2	2:3:338:ALA:H	1.59	0.68
5:6:566:ARG:NH2	5:6:676:THR:O	2.26	0.68
15:M:1953:PHE:HB2	15:M:2054:LEU:HD11	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:2:902:ADP:O3A	5:6:798:ARG:NH2	2.27	0.68
8:B:167:HIS:HA	10:D:277:MET:HE1	1.75	0.68
12:F:578:ILE:HA	12:F:592:THR:HA	1.74	0.68
1:2:790:TYR:HA	1:2:793:LEU:HD12	1.75	0.68
3:4:370:ARG:O	5:6:441:ARG:NH1	2.26	0.68
6:7:502:VAL:HB	6:7:509:GLU:HG3	1.75	0.68
5:6:396:LYS:N	5:6:460:ILE:O	2.26	0.68
5:6:821:PRO:HA	5:6:824:ILE:HD12	1.73	0.68
7:A:14:LYS:NZ	7:A:18:GLN:OE1	2.25	0.68
7:A:188:GLN:HB2	11:E:58:ILE:HB	1.75	0.68
12:H:516:SER:HA	12:H:525:GLU:HG2	1.75	0.68
16:N:180:ARG:H	16:N:194:PRO:HD3	1.58	0.68
1:2:494:ILE:HG12	1:2:823:MET:HE3	1.76	0.68
3:4:529:SER:O	3:4:723:HIS:NE2	2.26	0.68
3:4:592:SER:HA	3:4:632:ASP:HB3	1.76	0.68
5:6:118:PHE:O	5:6:122:PHE:N	2.27	0.68
8:B:117:TRP:O	8:B:174:SER:OG	2.10	0.68
11:E:333:SER:OG	11:E:373:ALA:O	2.12	0.68
12:F:477:MET:HB2	12:F:681:PRO:HD3	1.76	0.68
12:G:476:TYR:O	12:G:577:ARG:NH2	2.27	0.68
2:3:724:VAL:HA	2:3:727:LYS:HE3	1.76	0.68
3:4:363:GLY:HA2	5:6:435:SER:HA	1.76	0.68
3:4:712:VAL:O	6:7:668:ARG:NH2	2.27	0.68
11:E:13:ASN:HA	11:E:16:LEU:HD12	1.75	0.68
12:F:594:LEU:O	12:F:611:LYS:NZ	2.26	0.68
5:6:527:ASP:HA	5:6:530:VAL:HB	1.76	0.67
5:6:528:LYS:HG2	5:6:746:PHE:HE2	1.58	0.67
6:7:485:GLY:N	6:7:524:ASP:O	2.26	0.67
7:A:142:LYS:NZ	7:A:150:ASP:OD1	2.27	0.67
12:G:637:SER:HA	12:G:656:PRO:HA	1.75	0.67
15:M:1731:VAL:HA	15:M:1905:TYR:HA	1.75	0.67
1:2:211:LEU:HD21	1:2:271:PHE:HA	1.76	0.67
1:2:617:ARG:HH12	1:2:670:THR:HG23	1.59	0.67
2:3:300:SER:HA	2:3:319:THR:HA	1.74	0.67
3:4:381:SER:OG	5:6:441:ARG:NH2	2.25	0.67
11:E:476:ASN:HA	11:E:479:LEU:HD12	1.77	0.67
12:G:510:GLN:HB3	12:G:531:LEU:HD13	1.74	0.67
15:M:1942:LYS:HG2	15:M:1953:PHE:HD2	1.58	0.67
1:2:779:HIS:CE1	1:2:828:PHE:HB3	2.29	0.67
10:D:88:LEU:HA	10:D:91:ILE:HD12	1.76	0.67
11:E:43:LYS:HZ2	11:E:484:LEU:HD22	1.56	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F:601:ASN:OD1	12:F:605:VAL:N	2.27	0.67
12:H:475:ARG:O	12:H:577:ARG:NH2	2.27	0.67
12:H:689:PHE:HB3	12:H:693:GLY:HA2	1.76	0.67
15:M:1322:TRP:HA	15:M:1340:VAL:HA	1.75	0.67
2:3:412:SER:O	4:5:653:LEU:HD21	1.94	0.67
5:6:144:LYS:HE2	5:6:196:LEU:HA	1.76	0.67
5:6:169:ALA:O	5:6:176:ARG:NH1	2.28	0.67
5:6:515:GLU:OE1	5:6:753:ARG:NH2	2.26	0.67
10:D:285:LEU:HD12	10:D:290:LYS:HB2	1.75	0.67
15:M:1666:ASP:HB3	16:N:450:ARG:HB3	1.76	0.67
16:N:504:PRO:HG3	16:N:630:LEU:HD21	1.77	0.67
1:2:686:LEU:O	5:6:789:SER:HB2	1.93	0.67
2:3:32:LEU:HD13	2:3:132:LEU:HD22	1.76	0.67
5:6:653:HIS:HD2	5:6:705:ILE:HD13	1.59	0.67
6:7:67:LEU:HD21	6:7:125:MET:HB3	1.75	0.67
11:E:529:VAL:HG12	11:E:570:ALA:HB3	1.76	0.67
1:2:305:SER:OG	1:2:392:GLU:OE2	2.12	0.67
1:2:500:SER:HA	1:2:756:SER:HA	1.76	0.67
2:3:699:ALA:HB3	20:7:903:AGS:C8	2.24	0.67
3:4:770:LEU:HD23	5:6:732:VAL:HB	1.77	0.67
10:D:58:GLN:NE2	10:D:62:ASP:OD1	2.28	0.67
11:E:521:HIS:HA	11:E:526:ARG:HA	1.74	0.67
2:3:148:SER:O	2:3:198:ARG:NH1	2.28	0.67
2:3:522:GLN:NE2	4:5:649:THR:OG1	2.28	0.67
4:5:588:GLU:HG2	4:5:593:GLU:HB2	1.77	0.67
4:5:588:GLU:O	4:5:593:GLU:N	2.23	0.67
9:C:55:ALA:HB2	9:C:74:LEU:HD23	1.76	0.67
15:M:1383:LEU:HD22	15:M:1688:TRP:HB3	1.77	0.67
4:5:369:ILE:HG23	4:5:592:SER:HA	1.75	0.67
5:6:757:TYR:O	5:6:760:THR:OG1	2.11	0.67
8:B:10:THR:OG1	8:B:179:ASN:OD1	2.13	0.67
15:M:1735:GLY:HA2	15:M:1865:GLN:HA	1.77	0.67
2:3:487:HIS:HA	2:3:539:LEU:HD22	1.76	0.67
4:5:170:SER:HB3	4:5:255:PHE:H	1.60	0.67
11:E:85:GLY:HA2	11:E:124:ASP:HA	1.77	0.67
15:M:1948:ILE:HD13	15:M:2035:TYR:HE1	1.59	0.67
2:3:223:THR:OG1	4:5:246:GLU:OE2	2.14	0.66
6:7:415:ALA:HB2	6:7:430:LYS:HD3	1.76	0.66
11:E:489:VAL:HA	11:E:492:LEU:HD12	1.75	0.66
12:F:698:PHE:HD1	12:F:704:LEU:HB2	1.59	0.66
16:N:505:GLN:HB2	16:N:528:ASN:HB2	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:217:GLU:OE1	1:2:217:GLU:N	2.28	0.66
2:3:294:VAL:HG23	2:3:326:VAL:HG22	1.76	0.66
4:5:42:SER:OG	8:B:142:ARG:NH1	2.28	0.66
5:6:132:VAL:HG12	5:6:134:LYS:H	1.58	0.66
5:6:396:LYS:HE3	5:6:462:ILE:HD12	1.76	0.66
7:A:58:GLN:HG2	7:A:62:MET:HE3	1.77	0.66
1:2:810:LEU:HA	1:2:813:ILE:HD12	1.78	0.66
1:2:852:SER:O	1:2:856:GLN:NE2	2.29	0.66
2:3:407:MET:CE	2:3:415:LYS:HB2	2.24	0.66
3:4:393:ASP:N	3:4:421:ASP:OD1	2.28	0.66
4:5:35:ILE:HD11	4:5:97:VAL:HG21	1.78	0.66
5:6:640:GLU:HB3	5:6:643:LYS:HB2	1.78	0.66
6:7:73:ARG:NH1	6:7:199:ARG:O	2.28	0.66
6:7:82:LEU:HB3	6:7:207:LEU:HB3	1.76	0.66
6:7:476:ILE:O	6:7:639:ARG:NH1	2.27	0.66
12:H:676:TYR:O	12:H:680:ASN:N	2.27	0.66
2:3:586:LEU:HG	2:3:588:LEU:H	1.60	0.66
3:4:779:LYS:O	3:4:844:LYS:NZ	2.24	0.66
4:5:668:LEU:HD22	4:5:672:ALA:HA	1.78	0.66
5:6:576:ASP:HB2	5:6:579:THR:HG23	1.77	0.66
6:7:265:CYS:HB3	6:7:289:CYS:SG	2.35	0.66
11:E:581:VAL:HB	11:E:630:ILE:HG13	1.75	0.66
12:G:475:ARG:HG3	12:G:477:MET:HE3	1.76	0.66
3:4:437:GLY:HA3	3:4:463:VAL:HG12	1.78	0.66
3:4:777:MET:HE3	3:4:793:ALA:HB1	1.77	0.66
11:E:300:LYS:O	12:F:491:ARG:NH2	2.29	0.66
12:F:661:LEU:HD12	12:F:662:PRO:HD2	1.77	0.66
1:2:607:ASP:HA	1:2:649:ALA:HB3	1.76	0.66
5:6:141:GLU:O	5:6:144:LYS:HG3	1.95	0.66
8:B:108:HIS:O	8:B:155:LYS:NZ	2.28	0.66
11:E:381:ASP:OD2	11:E:383:SER:OG	2.12	0.66
12:G:785:LYS:HA	12:G:788:GLU:HG2	1.76	0.66
12:H:492:ARG:O	12:H:504:THR:N	2.27	0.66
1:2:600:ASP:HB2	1:2:642:ALA:HA	1.78	0.66
3:4:443:PRO:HB2	3:4:453:LEU:HD22	1.77	0.66
4:5:179:LEU:HB2	4:5:192:ILE:HB	1.76	0.66
4:5:398:LYS:O	4:5:406:LEU:N	2.29	0.66
6:7:426:LEU:HD13	6:7:429:LYS:HD3	1.78	0.66
10:D:189:ILE:HG13	10:D:192:LYS:HZ3	1.61	0.66
11:E:103:TYR:HA	11:E:117:ARG:HH11	1.61	0.66
16:N:227:ASP:OD1	16:N:228:ARG:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:231:ILE:O	1:2:232:ARG:HG3	1.95	0.66
1:2:333:GLN:N	1:2:383:ARG:O	2.29	0.66
2:3:95:ARG:NE	2:3:156:SER:OG	2.19	0.66
2:3:212:ARG:HH12	2:3:231:TYR:H	1.44	0.66
2:3:452:THR:HG21	2:3:456:ARG:HD2	1.77	0.66
3:4:778:ARG:NH2	5:6:719:CYS:O	2.29	0.66
4:5:607:ARG:HA	4:5:610:CYS:SG	2.36	0.66
5:6:173:GLN:HA	5:6:286:SER:HA	1.78	0.66
7:A:3:GLY:O	7:A:7:ASN:N	2.29	0.66
7:A:29:LEU:H	7:A:117:GLN:HB2	1.60	0.66
10:D:230:ILE:HD11	10:D:277:MET:HG2	1.77	0.66
11:E:43:LYS:HE2	11:E:481:TRP:CD2	2.31	0.66
11:E:328:LEU:HA	11:E:423:GLU:HG2	1.76	0.66
12:F:506:LYS:HA	12:F:511:TYR:HA	1.77	0.66
12:H:637:SER:HB2	12:H:654:GLU:HB3	1.78	0.66
15:M:1372:LYS:HZ3	15:M:1408:LEU:HB3	1.60	0.66
15:M:1491:PRO:HB3	15:M:1618:ASN:HA	1.77	0.66
16:N:228:ARG:NH1	16:N:608:ASP:O	2.29	0.66
2:3:254:GLN:NE2	2:3:284:ASP:OD1	2.28	0.66
3:4:465:HIS:CE1	3:4:467:LYS:HG2	2.30	0.66
4:5:149:ARG:HH12	4:5:272:ARG:H	1.42	0.66
4:5:544:THR:O	4:5:651:ARG:NH2	2.29	0.66
5:6:144:LYS:NZ	5:6:195:GLU:OE1	2.28	0.66
5:6:714:VAL:HG21	5:6:837:ARG:HG3	1.77	0.66
7:A:47:LEU:O	7:A:51:THR:HG23	1.96	0.66
10:D:199:LEU:HD13	10:D:207:GLN:HB3	1.76	0.66
12:G:576:GLU:HG3	12:G:594:LEU:HD23	1.76	0.66
16:N:274:LEU:HD21	16:N:284:LEU:HD21	1.77	0.66
16:N:531:ARG:HG3	16:N:540:VAL:HG22	1.78	0.66
1:2:678:ASP:HB2	1:2:812:SER:HB3	1.77	0.66
2:3:201:HIS:HE1	2:3:212:ARG:H	1.44	0.66
4:5:741:HIS:O	4:5:745:GLN:NE2	2.29	0.66
15:M:1376:ILE:HG13	15:M:1377:GLU:H	1.60	0.66
3:4:794:THR:OG1	3:4:847:MET:SD	2.54	0.65
4:5:744:SER:HA	4:5:748:LEU:HB3	1.76	0.65
15:M:1937:SER:HB2	15:M:1939:TRP:CD1	2.32	0.65
16:N:503:LEU:HD21	16:N:613:SER:HB3	1.78	0.65
1:2:633:LYS:NZ	13:I:57:DT:OP1	2.29	0.65
2:3:224:ARG:NH1	2:3:225:ILE:O	2.29	0.65
2:3:416:SER:C	2:3:420:ARG:HE	2.04	0.65
3:4:506:LEU:HA	3:4:509:ILE:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:721:ALA:O	3:4:725:THR:HG23	1.96	0.65
4:5:491:VAL:O	4:5:494:HIS:ND1	2.29	0.65
6:7:650:PRO:HB2	6:7:706:ASP:HB2	1.78	0.65
8:B:71:VAL:HB	8:B:75:ILE:HD11	1.77	0.65
12:F:493:TYR:HB3	12:F:496:MET:HE3	1.76	0.65
1:2:534:ARG:O	1:2:815:ARG:NH1	2.28	0.65
1:2:573:ALA:O	1:2:577:THR:OG1	2.14	0.65
4:5:414:LEU:H	4:5:521:ALA:HB3	1.62	0.65
1:2:824:ARG:NH2	1:2:828:PHE:O	2.28	0.65
6:7:358:ALA:N	6:7:373:GLU:O	2.22	0.65
12:H:640:LEU:H	12:H:652:LYS:HB2	1.61	0.65
15:M:1325:LEU:HB3	15:M:1435:GLN:HE21	1.61	0.65
2:3:97:ILE:HG22	2:3:158:LYS:HE2	1.77	0.65
3:4:441:SER:HA	3:4:459:THR:HA	1.78	0.65
4:5:185:ASN:HD21	4:5:236:CYS:HA	1.60	0.65
6:7:72:ASN:HA	6:7:132:ILE:HD12	1.78	0.65
6:7:647:THR:H	6:7:701:LYS:HB2	1.60	0.65
8:B:97:GLU:OE1	8:B:100:ARG:NH1	2.30	0.65
8:B:164:ASN:ND2	8:B:166:SER:OG	2.29	0.65
10:D:280:GLU:HA	10:D:283:ARG:HE	1.60	0.65
12:F:824:GLU:HA	12:F:827:TYR:CE1	2.31	0.65
15:M:1543:ILE:O	15:M:1547:SER:N	2.30	0.65
15:M:2128:PHE:O	15:M:2137:PHE:N	2.29	0.65
1:2:320:VAL:HG22	1:2:321:THR:H	1.61	0.65
1:2:335:LYS:HB3	1:2:381:VAL:HB	1.77	0.65
12:G:839:ASP:OD1	12:G:843:ASN:ND2	2.30	0.65
12:H:506:LYS:HA	12:H:511:TYR:HA	1.78	0.65
15:M:1694:PRO:HG2	16:N:497:LEU:HD23	1.78	0.65
1:2:538:ASN:ND2	1:2:676:ARG:O	2.27	0.65
3:4:321:ASP:HA	3:4:324:LYS:HD2	1.79	0.65
4:5:689:MET:O	4:5:693:SER:N	2.29	0.65
5:6:656:MET:HE3	5:6:708:ARG:HB2	1.78	0.65
9:C:109:ILE:HG22	9:C:113:MET:HE2	1.77	0.65
11:E:237:LEU:HA	11:E:240:TYR:CE1	2.32	0.65
12:H:494:LEU:HB2	12:H:502:VAL:HG13	1.79	0.65
12:H:864:LYS:HD2	12:H:893:ARG:HH12	1.60	0.65
4:5:28:ILE:HG23	4:5:93:ALA:HB2	1.77	0.65
5:6:125:GLN:HB3	5:6:128:ASP:HB2	1.79	0.65
5:6:831:LEU:O	5:6:835:ILE:HG12	1.96	0.65
11:E:48:LEU:O	11:E:52:GLN:NE2	2.29	0.65
11:E:49:PHE:O	11:E:53:LEU:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:68:ARG:NH1	11:E:97:GLU:OE1	2.29	0.65
11:E:399:TYR:HB3	11:E:401:LEU:HD23	1.78	0.65
12:G:543:GLY:HA2	12:G:559:HIS:H	1.62	0.65
15:M:1346:VAL:HG22	15:M:1347:GLN:H	1.61	0.65
15:M:1695:LEU:HG	16:N:497:LEU:HB2	1.78	0.65
1:2:387:ARG:HG2	1:2:409:ILE:HG12	1.79	0.65
2:3:190:SER:HB3	2:3:255:ARG:H	1.62	0.65
3:4:277:LYS:HE3	3:4:300:PHE:HA	1.78	0.65
6:7:228:ARG:NH2	6:7:327:ILE:O	2.25	0.65
6:7:529:MET:HG3	6:7:534:ARG:HH21	1.60	0.65
7:A:78:CYS:HA	9:C:49:TRP:HH2	1.62	0.65
12:H:624:ARG:HG3	12:H:642:GLU:HA	1.79	0.65
15:M:1860:TYR:HB3	15:M:1867:LEU:HB3	1.79	0.65
2:3:97:ILE:HA	2:3:156:SER:HB2	1.78	0.65
5:6:663:ILE:HG22	5:6:665:LYS:H	1.62	0.65
5:6:800:LEU:HA	5:6:803:MET:HE2	1.78	0.65
7:A:123:LEU:O	7:A:128:GLN:NE2	2.30	0.65
11:E:305:SER:HB3	12:F:766:PHE:HB3	1.77	0.65
15:M:1945:LEU:HB3	15:M:1950:GLN:HG2	1.79	0.65
15:M:1998:ASN:HA	15:M:2001:ASN:HD22	1.59	0.65
1:2:241:SER:HB2	1:2:296:ARG:HG3	1.77	0.64
1:2:384:ASN:H	1:2:412:ALA:HB2	1.62	0.64
5:6:301:ARG:N	5:6:356:TRP:O	2.30	0.64
10:D:239:LYS:HE2	10:D:242:GLU:HB3	1.79	0.64
11:E:127:ARG:HD2	11:E:248:VAL:HG13	1.78	0.64
12:H:553:GLN:HA	12:H:569:ILE:HA	1.79	0.64
1:2:478:GLU:O	1:2:481:GLU:HG3	1.96	0.64
1:2:777:LYS:NZ	1:2:827:GLU:OE2	2.30	0.64
2:3:314:LEU:O	4:5:175:ARG:NH2	2.28	0.64
3:4:207:LYS:HB3	3:4:212:ARG:HB3	1.79	0.64
10:D:202:MET:O	10:D:207:GLN:NE2	2.31	0.64
15:M:1939:TRP:HE1	15:M:1957:MET:HE3	1.61	0.64
15:M:2147:ILE:HD11	15:M:2213:LEU:HA	1.79	0.64
16:N:459:LYS:NZ	16:N:463:ASP:OD2	2.29	0.64
6:7:606:ARG:HG2	6:7:608:ASP:H	1.60	0.64
7:A:71:GLN:HE22	9:C:27:LEU:HG	1.62	0.64
7:A:99:SER:HA	8:B:1:MET:H1	1.63	0.64
7:A:161:VAL:HA	7:A:193:GLN:HB2	1.79	0.64
15:M:1389:THR:HB	15:M:1423:VAL:HG11	1.79	0.64
1:2:543:GLY:HA3	1:2:549:LYS:HD3	1.79	0.64
15:M:1838:ASN:HA	15:M:1841:LYS:HE2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:323:VAL:HA	1:2:423:GLU:HA	1.79	0.64
2:3:25:VAL:HG13	2:3:128:ALA:HB2	1.79	0.64
5:6:545:LYS:NZ	5:6:833:GLN:HE22	1.96	0.64
6:7:656:VAL:HG21	6:7:709:ASP:HB3	1.78	0.64
9:C:159:ASN:HD21	9:C:161:ALA:HB3	1.63	0.64
11:E:517:LYS:O	11:E:520:LYS:NZ	2.27	0.64
12:G:503:SER:OG	12:G:514:THR:OG1	2.13	0.64
12:G:597:PHE:N	12:G:610:GLU:O	2.26	0.64
15:M:2175:MET:HE2	16:N:218:PHE:HB3	1.80	0.64
2:3:661:GLN:HA	2:3:664:LYS:HE2	1.80	0.64
5:6:695:LEU:HD22	5:6:714:VAL:HG12	1.79	0.64
6:7:246:THR:HG22	6:7:316:GLN:HB2	1.80	0.64
10:D:75:GLU:OE1	10:D:283:ARG:NH1	2.31	0.64
11:E:159:TYR:HA	11:E:162:LEU:HD12	1.80	0.64
11:E:311:LYS:NZ	11:E:315:THR:OG1	2.21	0.64
12:G:833:LEU:HD23	12:G:836:LEU:HD21	1.79	0.64
16:N:234:ASN:HA	16:N:264:SER:HA	1.80	0.64
3:4:204:LYS:HZ3	3:4:216:ILE:HG21	1.62	0.64
5:6:296:ARG:HD2	5:6:360:ARG:HE	1.63	0.64
12:F:899:VAL:HG13	12:F:911:VAL:HG13	1.79	0.64
12:G:756:LEU:O	12:G:758:LYS:NZ	2.30	0.64
1:2:341:CYS:HA	1:2:373:PHE:HA	1.79	0.64
5:6:359:VAL:O	5:6:379:VAL:N	2.28	0.64
12:F:703:THR:HG22	12:F:724:SER:H	1.62	0.64
12:G:841:LEU:HD21	12:G:851:GLU:HB3	1.80	0.64
6:7:97:THR:HG22	6:7:99:ALA:H	1.63	0.64
6:7:396:ASP:HA	6:7:400:ARG:HH21	1.63	0.64
10:D:77:LEU:O	10:D:147:ARG:NH2	2.31	0.64
12:F:653:ARG:NH1	12:H:716:SER:O	2.30	0.64
18:2:902:ADP:PB	5:6:798:ARG:HH22	2.21	0.63
2:3:47:VAL:O	2:3:51:ASN:ND2	2.31	0.63
2:3:461:ALA:O	2:3:465:ALA:N	2.31	0.63
3:4:642:ARG:O	3:4:646:HIS:ND1	2.31	0.63
4:5:525:PRO:HG2	4:5:530:TYR:HA	1.79	0.63
6:7:196:LEU:HD23	6:7:306:LYS:HE3	1.80	0.63
6:7:462:PRO:HG3	6:7:568:ASN:HB2	1.80	0.63
12:G:587:ARG:HB2	12:G:643:LEU:HD21	1.79	0.63
12:G:754:CYS:O	12:G:772:SER:N	2.31	0.63
12:H:639:SER:HB3	12:H:654:GLU:H	1.63	0.63
12:H:670:LYS:HA	12:H:673:ASN:HD21	1.63	0.63
2:3:711:ALA:HA	2:3:714:LYS:HD2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:192:ARG:NH2	7:A:195:ASP:OD2	2.31	0.63
10:D:262:ASP:O	10:D:264:LYS:NZ	2.30	0.63
11:E:225:GLN:HA	11:E:228:LYS:HE3	1.80	0.63
2:3:417:GLN:HG2	18:3:1001:ADP:O2A	1.98	0.63
5:6:596:VAL:HG21	5:6:627:ALA:HB1	1.80	0.63
5:6:767:LYS:HA	5:6:770:ARG:HE	1.61	0.63
6:7:467:SER:HB2	20:7:903:AGS:PA	2.38	0.63
15:M:1960:ILE:O	15:M:1964:MET:HG2	1.98	0.63
7:A:202:GLN:NE2	16:N:30:GLY:O	2.32	0.63
12:F:636:LEU:HB3	12:F:657:LEU:HB3	1.81	0.63
12:H:480:SER:HB3	12:H:536:LEU:HG	1.81	0.63
15:M:1904:ARG:H	15:M:1923:ILE:HB	1.62	0.63
2:3:287:LYS:NZ	6:7:325:GLY:O	2.29	0.63
4:5:81:ASP:O	4:5:158:LYS:NZ	2.31	0.63
6:7:542:GLU:HA	6:7:593:ARG:HH21	1.62	0.63
10:D:103:MET:HA	10:D:106:LEU:HD12	1.81	0.63
12:G:617:ALA:HB3	12:G:628:VAL:HB	1.79	0.63
15:M:1418:PHE:HZ	15:M:1426:VAL:HA	1.63	0.63
1:2:424:VAL:HA	1:2:459:ARG:N	2.13	0.63
3:4:743:PRO:HB2	3:4:746:PHE:HB3	1.81	0.63
3:4:833:ILE:HG12	3:4:845:ILE:HG23	1.79	0.63
5:6:735:HIS:O	5:6:736:MET:HE3	1.97	0.63
6:7:416:LYS:HE3	6:7:630:PHE:HA	1.81	0.63
1:2:245:ASN:HA	1:2:298:SER:HB3	1.81	0.63
2:3:492:GLN:NE2	2:3:494:THR:O	2.32	0.63
3:4:370:ARG:NH1	3:4:377:ASN:O	2.31	0.63
5:6:538:PHE:O	5:6:544:LYS:NZ	2.28	0.63
11:E:350:LEU:HA	11:E:355:GLY:HA3	1.79	0.63
12:G:582:ALA:HB1	12:G:620:ALA:HB2	1.80	0.63
1:2:660:THR:OG1	3:4:925:ARG:NH2	2.32	0.63
2:3:94:HIS:HB3	2:3:153:TRP:HA	1.81	0.63
3:4:332:VAL:HA	3:4:399:LEU:HA	1.80	0.63
3:4:548:THR:HA	3:4:760:PRO:HD2	1.81	0.63
4:5:74:ASP:OD1	4:5:78:LYS:NZ	2.32	0.63
5:6:537:VAL:HG12	5:6:734:LEU:HD22	1.81	0.63
6:7:496:ALA:C	6:7:511:GLY:HA3	2.23	0.63
9:C:52:ARG:HB2	9:C:114:LEU:HD21	1.81	0.63
11:E:12:TYR:CZ	11:E:16:LEU:HD11	2.33	0.63
12:H:498:GLU:HA	12:H:745:LEU:HD13	1.81	0.63
12:H:706:LEU:O	12:H:719:LEU:N	2.30	0.63
16:N:179:GLN:NE2	16:N:192:PHE:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:548:ALA:HB2	18:2:902:ADP:H2'	1.81	0.63
2:3:259:GLN:HG3	2:3:273:SER:HB3	1.80	0.63
2:3:267:ALA:O	2:3:269:GLN:NE2	2.31	0.63
3:4:695:PRO:HG2	3:4:698:LEU:HD12	1.79	0.63
4:5:300:ILE:HD13	4:5:326:PRO:HA	1.81	0.63
4:5:733:LEU:HD21	4:5:748:LEU:HD21	1.79	0.63
12:H:641:SER:HA	12:H:650:TYR:HA	1.81	0.63
13:I:52:DT:H2''	13:I:53:DT:H5'	1.81	0.63
1:2:240:GLU:HG3	1:2:293:ILE:HA	1.81	0.62
3:4:243:LEU:HD13	3:4:303:VAL:HG23	1.80	0.62
3:4:725:THR:HB	6:7:657:ASN:HD21	1.62	0.62
8:B:4:PRO:HD2	8:B:7:LEU:HD12	1.81	0.62
2:3:29:GLN:HA	2:3:32:LEU:HD12	1.80	0.62
2:3:299:LYS:NZ	2:3:300:SER:O	2.32	0.62
3:4:304:ARG:HB3	3:4:465:HIS:CD2	2.33	0.62
4:5:99:LYS:HA	4:5:103:ILE:HD12	1.80	0.62
4:5:184:ARG:NH2	4:5:239:ASP:O	2.32	0.62
5:6:359:VAL:HG23	5:6:379:VAL:HB	1.80	0.62
6:7:224:PRO:HB2	6:7:242:ARG:HG2	1.80	0.62
12:G:631:SER:O	12:G:635:GLY:N	2.32	0.62
12:G:831:LYS:HE3	12:G:862:TYR:CG	2.33	0.62
3:4:444:ILE:HG23	3:4:458:LYS:HB2	1.81	0.62
3:4:651:GLN:HG3	3:4:653:THR:HG22	1.81	0.62
5:6:137:ARG:HH11	5:6:193:ALA:HB2	1.65	0.62
10:D:256:TYR:O	10:D:269:LEU:N	2.30	0.62
11:E:259:LEU:O	11:E:263:GLY:N	2.32	0.62
12:G:553:GLN:HA	12:G:569:ILE:HA	1.81	0.62
15:M:2167:CYS:HB3	15:M:2181:CYS:SG	2.39	0.62
1:2:710:ASN:OD1	1:2:741:ARG:NH2	2.31	0.62
1:2:866:LEU:HD21	15:M:2073:ARG:HG2	1.81	0.62
6:7:527:ASP:HB3	6:7:568:ASN:H	1.63	0.62
7:A:47:LEU:HD12	7:A:79:MET:HB3	1.82	0.62
15:M:2044:HIS:H	15:M:2097:PRO:HG2	1.63	0.62
1:2:188:ASN:O	1:2:190:LYS:NZ	2.28	0.62
4:5:474:GLY:N	4:5:516:ARG:O	2.31	0.62
6:7:73:ARG:NE	6:7:75:LEU:O	2.29	0.62
8:B:13:PRO:HA	8:B:16:ILE:HD12	1.81	0.62
12:G:497:ASN:ND2	12:G:539:LEU:O	2.32	0.62
12:H:524:ARG:HH22	12:H:561:SER:HB2	1.63	0.62
15:M:2210:PHE:HB3	15:M:2213:LEU:HB3	1.81	0.62
3:4:441:SER:OG	3:4:457:TYR:O	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:349:PHE:HB2	4:5:353:GLU:HB2	1.81	0.62
6:7:496:ALA:H	6:7:513:LEU:N	1.94	0.62
7:A:175:GLN:OE1	16:N:18:ARG:NE	2.32	0.62
11:E:352:ASN:OD1	11:E:355:GLY:N	2.30	0.62
15:M:1784:SER:OG	15:M:1786:ASP:OD1	2.15	0.62
15:M:1802:ALA:HB2	15:M:1813:VAL:HG21	1.82	0.62
16:N:603:VAL:HG11	16:N:651:LEU:HD22	1.82	0.62
6:7:664:TYR:HB2	6:7:689:LEU:HD13	1.82	0.62
11:E:68:ARG:NH1	11:E:95:PHE:O	2.31	0.62
11:E:573:ASP:HB3	11:E:576:THR:HG22	1.81	0.62
12:F:475:ARG:O	12:F:577:ARG:NH2	2.32	0.62
12:F:691:SER:N	12:F:747:LEU:O	2.32	0.62
15:M:1941:LEU:O	15:M:1944:PHE:HB2	1.99	0.62
16:N:503:LEU:HD13	16:N:620:ARG:HG2	1.82	0.62
4:5:61:LEU:O	4:5:138:ILE:N	2.32	0.62
4:5:136:GLN:HE21	4:5:281:TYR:HB2	1.65	0.62
4:5:363:ASN:HB3	4:5:366:LEU:HD23	1.82	0.62
4:5:594:ILE:O	4:5:598:LYS:HE3	2.00	0.62
12:F:507:ASN:OD1	12:F:510:GLN:NE2	2.33	0.62
12:G:704:LEU:HB3	12:G:722:LEU:HB3	1.81	0.62
2:3:581:PRO:HB2	2:3:583:ARG:HH22	1.63	0.62
4:5:173:SER:O	4:5:253:GLN:N	2.31	0.62
5:6:411:GLY:HA2	5:6:417:PRO:HG3	1.81	0.62
5:6:714:VAL:HG13	5:6:834:SER:HA	1.81	0.62
6:7:282:SER:HA	6:7:297:GLN:HE21	1.64	0.62
8:B:33:THR:OG1	8:B:63:MET:N	2.33	0.62
8:B:104:TYR:OH	8:B:111:ARG:NE	2.33	0.62
12:F:750:ASP:OD1	12:F:751:THR:N	2.33	0.62
12:H:578:ILE:HA	12:H:592:THR:HA	1.81	0.62
15:M:1418:PHE:HB3	15:M:1420:ASP:OD1	1.99	0.62
15:M:1689:TRP:HD1	15:M:1827:LEU:HG	1.64	0.62
16:N:268:ILE:HG23	16:N:284:LEU:HA	1.82	0.62
2:3:415:LYS:HE2	2:3:515:ALA:HB1	1.82	0.62
2:3:420:ARG:O	2:3:424:ASN:ND2	2.33	0.62
2:3:433:THR:HG22	2:3:473:ASP:HB3	1.82	0.62
4:5:396:SER:H	4:5:664:ALA:HB1	1.63	0.62
4:5:482:PHE:N	4:5:522:ALA:O	2.28	0.62
6:7:404:LEU:O	6:7:408:GLY:N	2.31	0.62
8:B:34:ARG:HE	8:B:62:ASN:HA	1.65	0.62
9:C:78:ASP:HA	9:C:81:SER:HB3	1.82	0.62
10:D:284:ASP:OD1	10:D:285:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:242:SER:HA	11:E:607:MET:HG2	1.82	0.62
12:F:540:ASN:O	12:F:559:HIS:ND1	2.33	0.62
12:G:690:SER:OG	12:G:694:ASP:N	2.33	0.62
12:G:824:GLU:HA	12:G:827:TYR:CE1	2.35	0.62
12:H:625:VAL:O	12:H:641:SER:OG	2.16	0.62
15:M:1388:LYS:HA	15:M:1391:ASN:HD22	1.63	0.62
15:M:1927:GLU:HB2	15:M:1931:GLN:HE22	1.65	0.62
15:M:2188:THR:HB	15:M:2189:LEU:HD12	1.82	0.62
1:2:355:SER:HB3	1:2:383:ARG:HH21	1.65	0.61
4:5:37:GLU:HA	4:5:44:PHE:HE1	1.64	0.61
11:E:223:ARG:HB3	11:E:226:ARG:HG2	1.82	0.61
12:F:631:SER:O	12:F:635:GLY:N	2.32	0.61
16:N:328:VAL:HB	16:N:341:VAL:HG21	1.82	0.61
1:2:303:ILE:HA	1:2:319:ARG:HE	1.65	0.61
1:2:693:GLU:HG3	5:6:778:LYS:HE2	1.81	0.61
5:6:115:PHE:HA	5:6:118:PHE:CE1	2.35	0.61
5:6:582:SER:O	5:6:586:LYS:HG3	2.00	0.61
6:7:244:ILE:HB	6:7:348:ILE:HG13	1.82	0.61
6:7:352:THR:HB	6:7:380:PHE:HB3	1.80	0.61
6:7:648:LYS:HE3	6:7:705:ALA:HB1	1.82	0.61
7:A:57:GLN:HB3	7:A:62:MET:CE	2.30	0.61
11:E:566:PRO:HA	11:E:586:PRO:HD3	1.83	0.61
12:F:599:SER:O	12:F:607:PHE:N	2.32	0.61
12:G:588:VAL:N	12:G:600:PHE:O	2.25	0.61
15:M:1944:PHE:HZ	15:M:2042:GLY:HA3	1.65	0.61
15:M:2151:ARG:O	15:M:2154:ILE:N	2.32	0.61
1:2:326:ARG:HB2	1:2:388:VAL:HA	1.82	0.61
3:4:208:ILE:HG23	3:4:209:LEU:HD12	1.80	0.61
3:4:329:LYS:HB3	3:4:434:GLU:HG3	1.82	0.61
5:6:765:LEU:HA	5:6:819:ILE:HB	1.82	0.61
11:E:252:SER:HB3	11:E:273:ASN:HA	1.82	0.61
12:F:727:GLU:HA	12:F:730:LYS:HD2	1.82	0.61
12:G:507:ASN:ND2	12:G:529:GLU:OE2	2.34	0.61
2:3:712:HIS:HB3	2:3:725:ASP:HB3	1.82	0.61
18:3:1001:ADP:PB	4:5:549:ARG:HH22	2.23	0.61
4:5:715:GLU:OE2	4:5:716:GLN:NE2	2.33	0.61
5:6:749:GLU:O	5:6:753:ARG:HG3	2.00	0.61
11:E:303:THR:O	12:F:491:ARG:NH1	2.33	0.61
15:M:2148:GLN:HA	16:N:494:MET:HE2	1.81	0.61
2:3:405:ILE:HG12	2:3:545:LEU:HB2	1.82	0.61
2:3:551:ASP:OD2	4:5:652:GLN:NE2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:772:ARG:HA	3:4:775:VAL:HG22	1.81	0.61
4:5:454:GLN:O	4:5:463:TYR:N	2.33	0.61
10:D:210:ASN:HB2	10:D:219:ILE:HD11	1.82	0.61
11:E:65:SER:N	11:E:623:ASP:OD1	2.29	0.61
12:F:834:SER:HB3	12:F:858:LEU:HD22	1.82	0.61
12:G:599:SER:O	12:G:607:PHE:N	2.33	0.61
1:2:211:LEU:HD12	1:2:214:PHE:HE1	1.66	0.61
1:2:863:ILE:HB	15:M:2073:ARG:HH21	1.65	0.61
3:4:859:ARG:HG2	5:6:692:LYS:HD2	1.83	0.61
4:5:39:ARG:HD2	4:5:42:SER:HA	1.82	0.61
4:5:159:ILE:HA	4:5:297:ILE:HA	1.82	0.61
4:5:433:SER:HA	4:5:600:LYS:HD3	1.83	0.61
5:6:118:PHE:HA	5:6:121:ASP:OD1	2.00	0.61
5:6:141:GLU:HA	5:6:196:LEU:HD13	1.82	0.61
9:C:15:GLU:HA	9:C:47:PRO:HA	1.82	0.61
11:E:88:GLY:O	11:E:133:ASN:ND2	2.31	0.61
15:M:1789:ASN:OD1	15:M:1792:ARG:NH2	2.33	0.61
16:N:318:HIS:HB3	16:N:346:LEU:HD13	1.83	0.61
16:N:652:THR:HA	16:N:657:LYS:HA	1.81	0.61
16:N:673:MET:HG2	16:N:684:GLN:HG3	1.83	0.61
1:2:428:GLY:HA3	1:2:453:ALA:HA	1.81	0.61
1:2:549:LYS:CE	18:2:902:ADP:O1B	2.49	0.61
7:A:67:VAL:HA	9:C:24:ILE:HD11	1.81	0.61
11:E:386:ARG:NH1	11:E:387:GLU:OE2	2.33	0.61
12:H:621:GLN:N	12:H:624:ARG:O	2.30	0.61
12:H:863:ASP:OD2	12:H:891:GLN:NE2	2.31	0.61
16:N:175:ALA:HA	16:N:531:ARG:HH12	1.65	0.61
2:3:199:SER:OG	2:3:212:ARG:O	2.15	0.61
2:3:400:ARG:HD2	2:3:493:GLN:HE21	1.65	0.61
18:3:1001:ADP:PB	4:5:549:ARG:NH2	2.74	0.61
3:4:201:PHE:HE1	3:4:205:PHE:HD2	1.49	0.61
4:5:149:ARG:HD3	4:5:272:ARG:HH12	1.65	0.61
4:5:695:ASP:OD2	4:5:711:ILE:HG23	2.00	0.61
5:6:304:LEU:HD11	5:6:307:ALA:HB2	1.83	0.61
6:7:541:MET:O	6:7:544:GLN:NE2	2.34	0.61
11:E:336:ASP:OD1	11:E:337:SER:N	2.34	0.61
12:F:676:TYR:OH	12:F:684:ILE:O	2.16	0.61
1:2:621:HIS:O	1:2:625:GLU:HG2	2.00	0.61
1:2:852:SER:O	1:2:855:ARG:NH2	2.34	0.61
2:3:372:TYR:CZ	2:3:560:SER:HB3	2.36	0.61
6:7:481:VAL:HG22	6:7:483:THR:HG22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:692:TYR:HE1	12:G:848:TYR:HE2	1.46	0.61
6:7:439:GLY:HA3	6:7:697:GLN:HE22	1.65	0.61
7:A:67:VAL:HA	9:C:24:ILE:CD1	2.31	0.61
11:E:29:ILE:HD13	11:E:58:ILE:HG13	1.81	0.61
12:G:712:SER:HB2	12:G:715:GLU:HB2	1.83	0.61
12:G:743:TRP:NE1	12:G:762:ILE:O	2.33	0.61
15:M:1375:LEU:HD23	15:M:1404:GLU:HA	1.81	0.61
15:M:2049:ASN:O	15:M:2052:LEU:N	2.32	0.61
1:2:542:LEU:N	1:2:681:CYS:O	2.29	0.60
3:4:574:LYS:HZ3	3:4:675:ALA:H	1.48	0.60
5:6:652:ILE:HA	5:6:655:ALA:HB3	1.82	0.60
12:H:895:LEU:O	12:H:899:VAL:HG23	2.01	0.60
2:3:251:ILE:HA	2:3:280:ASP:HB2	1.83	0.60
4:5:524:ASN:HB3	4:5:528:GLY:O	2.01	0.60
6:7:481:VAL:HG12	6:7:520:ILE:O	2.01	0.60
8:B:26:LYS:NZ	8:B:27:ILE:O	2.34	0.60
11:E:103:TYR:CE2	11:E:118:ARG:HB2	2.35	0.60
12:F:634:HIS:HE1	12:H:636:LEU:HB2	1.66	0.60
12:G:840:THR:O	12:G:844:ASP:N	2.25	0.60
15:M:1354:PRO:CB	15:M:1407:PHE:HA	2.31	0.60
16:N:267:SER:C	16:N:283:LEU:HD23	2.26	0.60
1:2:307:ARG:HH12	1:2:403:PRO:HA	1.65	0.60
2:3:407:MET:HE1	2:3:415:LYS:HB2	1.82	0.60
2:3:415:LYS:HA	2:3:418:LEU:HB2	1.82	0.60
3:4:567:CYS:HB3	3:4:708:VAL:H	1.64	0.60
5:6:409:GLN:HE21	5:6:449:THR:HG22	1.66	0.60
12:G:819:VAL:HG13	12:G:868:ARG:HH21	1.65	0.60
1:2:787:SER:HB3	4:5:566:ILE:HG23	1.83	0.60
18:3:1001:ADP:O1B	4:5:549:ARG:NH2	2.35	0.60
3:4:432:ARG:HB3	3:4:469:VAL:HG12	1.82	0.60
3:4:864:ASP:OD1	3:4:867:ARG:NH2	2.30	0.60
4:5:51:ARG:HH22	9:C:142:LEU:HB2	1.65	0.60
6:7:412:ASN:HA	6:7:430:LYS:HZ1	1.61	0.60
10:D:260:ILE:HG13	10:D:281:VAL:HG11	1.83	0.60
11:E:571:SER:O	11:E:580:LEU:N	2.26	0.60
15:M:1576:GLU:HA	15:M:1579:LYS:HE2	1.83	0.60
2:3:291:ARG:NH1	2:3:331:ALA:O	2.33	0.60
3:4:251:TYR:HB3	3:4:254:THR:HB	1.82	0.60
3:4:439:PHE:HD1	3:4:461:VAL:HB	1.66	0.60
3:4:607:ARG:NH1	3:4:612:LYS:O	2.35	0.60
4:5:479:ILE:HB	4:5:482:PHE:HE1	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:534:LYS:O	4:5:539:ASN:ND2	2.31	0.60
5:6:326:LYS:HB3	5:6:412:LEU:HD13	1.84	0.60
15:M:1731:VAL:HG12	15:M:1733:ASP:H	1.65	0.60
1:2:271:PHE:CD2	1:2:295:VAL:HG22	2.36	0.60
2:3:519:VAL:N	2:3:532:ASN:O	2.32	0.60
3:4:412:PRO:HD3	6:7:557:LEU:HD11	1.82	0.60
5:6:661:ILE:HG13	5:6:674:ALA:HB2	1.84	0.60
6:7:497:VAL:N	6:7:511:GLY:HA3	2.16	0.60
6:7:611:LYS:O	6:7:615:HIS:ND1	2.26	0.60
10:D:234:GLY:N	10:D:290:LYS:O	2.32	0.60
3:4:569:ASP:HB2	3:4:710:ASP:HB2	1.83	0.60
4:5:106:ARG:NH1	8:B:106:LYS:O	2.34	0.60
4:5:453:VAL:HG22	4:5:464:LEU:HD13	1.84	0.60
5:6:397:PHE:HB3	5:6:459:VAL:HG23	1.84	0.60
11:E:323:ASP:N	11:E:406:ARG:O	2.24	0.60
11:E:526:ARG:NH2	11:E:563:GLN:O	2.34	0.60
12:G:714:GLU:O	12:H:653:ARG:NH1	2.30	0.60
12:H:543:GLY:HA2	12:H:559:HIS:H	1.66	0.60
15:M:2080:LEU:HD22	15:M:2085:LEU:HB3	1.83	0.60
16:N:400:VAL:HG21	16:N:424:LEU:HD11	1.84	0.60
2:3:382:LEU:HA	2:3:385:LEU:HD12	1.83	0.60
6:7:91:GLU:HA	6:7:94:LEU:HD12	1.84	0.60
6:7:110:ALA:O	6:7:114:THR:N	2.33	0.60
6:7:313:CYS:O	6:7:333:ILE:N	2.35	0.60
7:A:165:VAL:HA	7:A:207:LYS:HE3	1.84	0.60
7:A:165:VAL:HG11	7:A:205:LEU:HB3	1.82	0.60
8:B:25:ILE:N	8:B:71:VAL:O	2.34	0.60
12:F:494:LEU:HD13	12:F:502:VAL:HG22	1.84	0.60
12:G:747:LEU:HD12	12:G:752:LEU:HA	1.84	0.60
12:H:557:ARG:HG2	12:H:565:ASN:HB3	1.84	0.60
1:2:417:VAL:HG11	1:2:456:ILE:HG21	1.84	0.60
4:5:532:ASP:O	4:5:707:SER:OG	2.15	0.60
4:5:775:VAL:H	15:M:2189:LEU:HA	1.66	0.60
5:6:394:ARG:HE	5:6:462:ILE:HG23	1.66	0.60
6:7:196:LEU:HD21	6:7:306:LYS:HB2	1.84	0.60
6:7:200:TYR:HE1	6:7:202:LEU:HB2	1.67	0.60
7:A:79:MET:SD	10:D:203:PRO:HG3	2.42	0.60
11:E:316:LEU:HB2	11:E:413:LEU:HD13	1.83	0.60
11:E:333:SER:HA	11:E:376:THR:HA	1.83	0.60
12:G:577:ARG:O	12:G:593:SER:N	2.35	0.60
12:G:716:SER:O	12:H:653:ARG:NH2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:831:LYS:O	12:G:834:SER:N	2.35	0.60
12:H:592:THR:HG23	12:H:594:LEU:H	1.67	0.60
12:H:638:TYR:O	12:H:655:CYS:N	2.34	0.60
12:H:708:SER:HB3	12:H:719:LEU:HD11	1.84	0.60
14:J:18:DA:H2"	14:J:19:DC:H5"	1.84	0.60
15:M:1540:LYS:HA	15:M:1543:ILE:HB	1.84	0.60
15:M:1879:TYR:OH	15:M:1907:ASP:OD1	2.16	0.60
16:N:237:ASN:HB2	16:N:265:SER:HA	1.82	0.60
16:N:611:HIS:HB3	16:N:614:PRO:HG3	1.84	0.60
2:3:372:TYR:HD2	2:3:564:HIS:HB2	1.66	0.60
5:6:298:SER:OG	5:6:301:ARG:NH2	2.34	0.60
5:6:730:HIS:CD2	5:6:734:LEU:HD11	2.36	0.60
5:6:779:GLU:HA	5:6:782:LYS:HE2	1.82	0.60
9:C:58:GLY:HA3	9:C:70:PRO:HA	1.83	0.60
12:F:889:LEU:O	12:F:921:ARG:NH1	2.33	0.60
12:F:889:LEU:HD22	12:F:894:ALA:HB1	1.84	0.60
16:N:269:THR:HG21	16:N:282:PHE:HD1	1.66	0.60
1:2:244:VAL:HG23	1:2:246:TYR:H	1.66	0.59
3:4:306:TYR:HB3	3:4:465:HIS:CE1	2.36	0.59
5:6:305:TYR:N	5:6:352:ARG:O	2.24	0.59
8:B:33:THR:HG21	8:B:63:MET:HE2	1.84	0.59
9:C:119:GLU:OE1	9:C:119:GLU:N	2.35	0.59
11:E:522:LEU:O	11:E:523:ARG:HG3	2.01	0.59
11:E:604:ASN:HA	11:E:607:MET:HE2	1.83	0.59
12:H:830:SER:HA	12:H:858:LEU:HD11	1.84	0.59
1:2:616:ASP:O	1:2:620:ILE:HG12	2.02	0.59
2:3:491:GLU:OE2	2:3:700:ARG:NH2	2.34	0.59
4:5:104:LEU:HD13	8:B:109:PRO:HB3	1.84	0.59
5:6:557:LYS:O	5:6:565:LEU:N	2.35	0.59
5:6:701:MET:SD	5:6:706:MET:HB3	2.41	0.59
6:7:499:LYS:NZ	13:I:51:DT:H2"	2.17	0.59
11:E:576:THR:HG23	11:E:578:THR:H	1.67	0.59
12:H:478:PRO:HD3	12:H:577:ARG:HD2	1.83	0.59
16:N:170:PHE:HZ	16:N:431:LEU:HB2	1.67	0.59
1:2:185:SER:O	1:2:190:LYS:NZ	2.35	0.59
1:2:553:LEU:HD23	1:2:605:LEU:HB3	1.85	0.59
2:3:187:THR:N	2:3:259:GLN:OE1	2.35	0.59
5:6:643:LYS:NZ	5:6:683:ASN:O	2.33	0.59
10:D:262:ASP:OD1	10:D:263:LEU:N	2.34	0.59
12:F:535:ASP:OD2	12:F:549:SER:N	2.35	0.59
12:G:827:TYR:HB2	12:G:862:TYR:HD1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:540:LEU:O	1:2:681:CYS:N	2.35	0.59
4:5:104:LEU:HB2	4:5:107:ALA:HB2	1.85	0.59
4:5:301:TYR:O	4:5:325:THR:N	2.35	0.59
5:6:594:ARG:NH2	5:6:632:ASP:O	2.35	0.59
5:6:690:ASN:H	5:6:698:ASN:HD21	1.50	0.59
5:6:761:PHE:HD2	5:6:815:CYS:HB3	1.67	0.59
7:A:57:GLN:HB3	7:A:62:MET:HE2	1.83	0.59
7:A:67:VAL:O	7:A:71:GLN:HG2	2.02	0.59
7:A:195:ASP:OD1	16:N:22:TYR:OH	2.09	0.59
12:F:696:CYS:HB3	12:F:704:LEU:HD11	1.85	0.59
12:G:697:ILE:HB	12:G:705:LEU:HB3	1.85	0.59
15:M:2162:LEU:HB3	15:M:2185:TRP:HB3	1.83	0.59
16:N:36:ASP:OD2	16:N:78:PHE:HB3	2.03	0.59
2:3:348:ARG:NH1	2:3:349:ASN:OD1	2.36	0.59
3:4:335:SER:HB2	3:4:397:ILE:HG13	1.82	0.59
7:A:206:GLN:O	7:A:207:LYS:HG3	2.03	0.59
11:E:316:LEU:HD21	11:E:411:ARG:HD2	1.84	0.59
12:G:558:PRO:HB2	12:G:561:SER:H	1.67	0.59
12:G:830:SER:HA	12:G:858:LEU:HD12	1.84	0.59
16:N:227:ASP:OD1	16:N:231:ARG:NH2	2.32	0.59
2:3:414:ALA:HB2	18:3:1001:ADP:C8	2.37	0.59
2:3:563:GLU:OE2	16:N:277:ARG:NH1	2.30	0.59
3:4:395:GLN:O	3:4:419:VAL:N	2.34	0.59
5:6:266:SER:HB3	5:6:458:HIS:HB2	1.84	0.59
6:7:410:VAL:O	6:7:411:TYR:C	2.41	0.59
6:7:620:HIS:O	6:7:621:MET:HG2	2.02	0.59
11:E:318:LEU:HD13	11:E:411:ARG:HB2	1.83	0.59
12:F:741:HIS:ND1	12:F:761:HIS:O	2.35	0.59
1:2:479:GLU:O	1:2:483:GLU:HG2	2.02	0.59
1:2:561:HIS:CE1	1:2:768:HIS:HB2	2.38	0.59
2:3:97:ILE:HG13	2:3:156:SER:HB2	1.84	0.59
3:4:341:ASP:N	3:4:392:ALA:O	2.25	0.59
3:4:543:GLN:HA	3:4:562:ILE:HD13	1.83	0.59
3:4:859:ARG:HD2	5:6:692:LYS:HG3	1.84	0.59
3:4:913:GLU:O	5:6:794:ARG:NH2	2.36	0.59
4:5:630:ARG:HH22	4:5:652:GLN:HB2	1.67	0.59
5:6:829:ASP:OD1	5:6:832:ARG:NH2	2.35	0.59
10:D:285:LEU:HA	10:D:288:ASP:HB2	1.83	0.59
11:E:326:LEU:HB3	11:E:337:SER:HB3	1.82	0.59
12:F:515:VAL:N	12:F:525:GLU:OE2	2.34	0.59
12:G:676:TYR:OH	12:G:684:ILE:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:827:TYR:HB3	12:G:865:ALA:HB3	1.83	0.59
12:H:576:GLU:HG3	12:H:594:LEU:HD23	1.84	0.59
15:M:1357:ILE:HD11	15:M:1428:GLU:HG3	1.83	0.59
15:M:2014:ARG:HE	15:M:2018:LEU:HG	1.68	0.59
16:N:502:THR:O	16:N:620:ARG:NH2	2.36	0.59
2:3:572:LEU:HD12	2:3:573:PRO:HD2	1.83	0.59
2:3:678:VAL:HG21	2:3:723:LYS:HB2	1.83	0.59
5:6:121:ASP:HA	5:6:132:VAL:H	1.68	0.59
5:6:177:PHE:C	5:6:179:PRO:HD2	2.28	0.59
5:6:377:LEU:HD11	5:6:453:SER:HA	1.85	0.59
6:7:260:TYR:HB3	6:7:298:LEU:HD12	1.85	0.59
7:A:67:VAL:HG22	9:C:24:ILE:HG13	1.85	0.59
10:D:286:LEU:HD11	10:D:293:LEU:HG	1.85	0.59
12:F:498:GLU:OE1	12:F:498:GLU:N	2.32	0.59
15:M:2194:ILE:HA	15:M:2197:LYS:HE3	1.84	0.59
16:N:330:GLY:HA3	16:N:341:VAL:HA	1.85	0.59
16:N:623:SER:HB2	16:N:626:LEU:HB3	1.84	0.59
1:2:179:GLU:H	1:2:202:ASN:HA	1.68	0.59
1:2:383:ARG:HD2	1:2:411:LEU:HD12	1.84	0.59
2:3:137:ASP:OD1	2:3:138:ASP:N	2.35	0.59
4:5:101:ILE:HG13	4:5:102:SER:H	1.68	0.59
4:5:673:GLN:OE1	4:5:676:HIS:ND1	2.36	0.59
5:6:552:LEU:HD13	5:6:812:ARG:HB3	1.83	0.59
5:6:799:GLN:HA	5:6:802:SER:HB3	1.84	0.59
6:7:484:THR:HA	6:7:524:ASP:HB3	1.85	0.59
11:E:249:ASN:HD21	11:E:254:GLN:HB3	1.67	0.59
16:N:209:PRO:HB3	16:N:624:TRP:HB2	1.85	0.59
1:2:653:ASN:ND2	1:2:665:GLN:O	2.36	0.59
1:2:703:HIS:O	1:2:707:HIS:ND1	2.36	0.59
2:3:160:SER:H	2:3:590:LEU:HD12	1.68	0.59
4:5:668:LEU:HD23	4:5:674:GLU:HB2	1.83	0.59
6:7:143:LEU:HD23	6:7:147:ARG:HH12	1.68	0.59
12:F:614:PRO:O	12:F:630:TYR:N	2.30	0.59
12:G:823:ALA:HA	12:G:826:GLU:HG3	1.85	0.59
15:M:2163:ARG:O	15:M:2186:GLU:N	2.36	0.59
1:2:340:ASN:ND2	1:2:374:ARG:O	2.36	0.58
2:3:119:ALA:HA	2:3:221:LEU:HD13	1.82	0.58
2:3:407:MET:HE1	2:3:415:LYS:CB	2.33	0.58
6:7:467:SER:HB2	20:7:903:AGS:O2A	2.02	0.58
12:F:653:ARG:NH1	12:H:714:GLU:O	2.36	0.58
12:G:714:GLU:HG3	12:H:649:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:H:481:PRO:O	12:H:495:THR:OG1	2.15	0.58
15:M:1720:LYS:NZ	15:M:2116:ASP:OD2	2.36	0.58
16:N:646:SER:OG	16:N:660:ASN:ND2	2.28	0.58
4:5:455:ARG:HA	4:5:462:PHE:HA	1.85	0.58
5:6:300:VAL:HG22	5:6:386:VAL:HG11	1.84	0.58
5:6:628:LEU:HD12	5:6:661:ILE:HD11	1.85	0.58
5:6:735:HIS:O	5:6:736:MET:HE2	2.03	0.58
5:6:780:LEU:HD13	5:6:795:ILE:HG21	1.84	0.58
7:A:73:PHE:CE1	7:A:77:LEU:HD11	2.38	0.58
8:B:16:ILE:HD11	8:B:179:ASN:HD22	1.67	0.58
11:E:11:ALA:HA	11:E:14:LYS:HE2	1.85	0.58
11:E:287:VAL:HG13	11:E:290:ARG:NH2	2.19	0.58
12:F:643:LEU:HA	12:F:648:LYS:HA	1.84	0.58
12:H:696:CYS:HB3	12:H:704:LEU:HD11	1.84	0.58
16:N:452:ILE:HD11	16:N:456:THR:HG21	1.85	0.58
1:2:782:ASP:HA	15:M:2086:ARG:CZ	2.33	0.58
2:3:687:ARG:NE	6:7:609:ASP:HB3	2.13	0.58
4:5:101:ILE:HG13	4:5:102:SER:N	2.18	0.58
5:6:312:ASP:HB2	5:6:315:ARG:HH12	1.68	0.58
5:6:536:ALA:HA	5:6:544:LYS:HE3	1.84	0.58
6:7:257:VAL:HA	6:7:272:GLU:HA	1.85	0.58
7:A:129:GLU:HA	7:A:132:LYS:HE2	1.86	0.58
7:A:188:GLN:HE22	7:A:207:LYS:HE2	1.66	0.58
11:E:123:LEU:HD13	11:E:143:PHE:HB2	1.85	0.58
11:E:391:ILE:O	11:E:395:ASN:ND2	2.36	0.58
11:E:490:GLU:O	11:E:494:ARG:HG2	2.04	0.58
12:G:715:GLU:HA	12:H:649:ARG:HH12	1.67	0.58
15:M:1656:SER:HB2	15:M:1675:LEU:HD21	1.84	0.58
15:M:1887:LYS:HD3	15:M:1890:ARG:HH21	1.68	0.58
2:3:104:ARG:NH2	9:C:86:ASN:HA	2.18	0.58
2:3:704:THR:O	2:3:708:LEU:HG	2.03	0.58
2:3:712:HIS:ND1	2:3:725:ASP:OD1	2.26	0.58
6:7:332:ASN:HB2	6:7:334:HIS:HE1	1.68	0.58
11:E:83:LEU:HB2	11:E:122:VAL:HG13	1.84	0.58
12:F:538:PHE:O	12:F:545:LEU:N	2.30	0.58
12:F:740:ILE:HG23	12:F:756:LEU:HD12	1.85	0.58
15:M:1694:PRO:HA	15:M:1826:LYS:HG3	1.86	0.58
1:2:499:SER:HG	1:2:509:ARG:HH12	1.48	0.58
2:3:437:SER:HB2	4:5:505:ALA:HB3	1.84	0.58
3:4:447:ASN:OD1	3:4:449:ARG:NH1	2.37	0.58
3:4:770:LEU:CD2	5:6:732:VAL:HB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:122:PHE:HD2	5:6:124:VAL:HG23	1.67	0.58
5:6:159:SER:HA	5:6:167:ALA:HB2	1.86	0.58
5:6:796:THR:HG22	5:6:797:VAL:H	1.68	0.58
6:7:113:PHE:HA	6:7:116:LEU:HD12	1.86	0.58
12:F:673:ASN:OD1	12:F:674:LEU:N	2.36	0.58
12:F:892:ASP:O	12:F:918:ARG:NH1	2.36	0.58
12:G:728:ILE:HD12	12:G:740:ILE:HG21	1.85	0.58
16:N:434:TRP:HB2	16:N:483:PHE:HA	1.85	0.58
1:2:239:SER:OG	1:2:240:GLU:N	2.35	0.58
3:4:645:LEU:O	3:4:649:MET:HG2	2.04	0.58
4:5:485:MET:HB3	4:5:490:ARG:HD3	1.86	0.58
6:7:523:ILE:HD11	6:7:563:ILE:HD11	1.86	0.58
6:7:603:ILE:HG22	6:7:605:SER:H	1.68	0.58
12:F:638:TYR:O	12:F:655:CYS:N	2.35	0.58
15:M:1732:LEU:HD22	15:M:1904:ARG:HD3	1.85	0.58
15:M:1736:VAL:HG21	15:M:1898:LEU:HD22	1.86	0.58
16:N:503:LEU:N	16:N:621:PRO:O	2.26	0.58
1:2:386:GLN:HB3	1:2:410:LEU:HB2	1.85	0.58
2:3:342:LEU:HD22	2:3:666:ARG:HH22	1.69	0.58
3:4:225:TYR:O	3:4:228:LYS:HG2	2.03	0.58
3:4:304:ARG:NH2	3:4:466:VAL:H	2.02	0.58
3:4:696:PRO:HA	3:4:699:LEU:HD12	1.84	0.58
4:5:448:GLY:HA3	4:5:452:SER:HA	1.84	0.58
12:G:889:LEU:O	12:G:921:ARG:NH2	2.37	0.58
12:H:627:SER:OG	12:H:639:SER:OG	2.19	0.58
15:M:1334:GLY:O	15:M:1353:ILE:N	2.36	0.58
15:M:1342:ILE:C	15:M:1344:GLY:H	2.10	0.58
15:M:1956:TRP:NE1	15:M:2014:ARG:HG2	2.12	0.58
16:N:78:PHE:H	16:N:81:GLN:HB3	1.67	0.58
16:N:236:GLN:HB2	16:N:265:SER:HB2	1.85	0.58
1:2:212:LYS:HE2	1:2:274:VAL:HG13	1.86	0.58
1:2:479:GLU:HA	1:2:482:ARG:HE	1.68	0.58
1:2:519:LEU:HD21	1:2:556:VAL:HG13	1.86	0.58
3:4:272:MET:O	3:4:276:ILE:HG13	2.04	0.58
3:4:630:CYS:HA	3:4:672:LEU:HB2	1.84	0.58
3:4:858:GLN:HB3	5:6:692:LYS:HE3	1.86	0.58
4:5:666:LEU:O	4:5:669:SER:N	2.31	0.58
5:6:530:VAL:HG13	5:6:544:LYS:HB3	1.86	0.58
6:7:588:ALA:HA	6:7:591:LEU:HD12	1.86	0.58
9:C:17:PRO:HB2	9:C:75:LEU:HD12	1.85	0.58
10:D:159:ARG:HH22	10:D:184:ASP:HA	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:D:270:THR:OG1	10:D:275:TYR:OH	2.10	0.58
11:E:271:TRP:O	11:E:275:LEU:HG	2.03	0.58
12:F:676:TYR:O	12:F:680:ASN:N	2.20	0.58
12:H:780:VAL:HB	12:H:825:GLU:HG3	1.84	0.58
12:H:907:LEU:HD21	12:H:910:LEU:HD13	1.85	0.58
15:M:1798:TRP:HB3	15:M:1813:VAL:HG22	1.86	0.58
1:2:279:THR:HG23	1:2:286:TYR:HD2	1.68	0.58
3:4:201:PHE:H	3:4:224:LEU:HD21	1.69	0.58
3:4:445:ARG:NH1	5:6:419:SER:O	2.37	0.58
3:4:857:ILE:HB	3:4:860:LYS:HE3	1.86	0.58
4:5:740:THR:O	4:5:744:SER:N	2.36	0.58
5:6:566:ARG:O	5:6:805:ARG:NH1	2.37	0.58
6:7:137:ASP:O	6:7:141:VAL:N	2.32	0.58
7:A:166:ARG:HB3	7:A:206:GLN:HE21	1.67	0.58
10:D:75:GLU:HB3	10:D:279:TYR:HE2	1.69	0.58
10:D:253:LYS:NZ	10:D:271:ILE:HG12	2.18	0.58
11:E:253:ALA:HA	11:E:273:ASN:HD21	1.68	0.58
12:F:482:ALA:HB3	12:F:496:MET:HB2	1.85	0.58
12:H:507:ASN:OD1	12:H:510:GLN:NE2	2.37	0.58
16:N:319:TYR:N	16:N:605:THR:OG1	2.29	0.58
1:2:175:ASP:H	1:2:179:GLU:HB2	1.68	0.58
1:2:707:HIS:NE2	5:6:808:GLU:OE2	2.37	0.58
3:4:341:ASP:O	3:4:392:ALA:N	2.24	0.58
4:5:616:PRO:HD2	4:5:668:LEU:HD11	1.85	0.58
5:6:179:PRO:HA	5:6:182:GLN:HB3	1.86	0.58
6:7:246:THR:N	6:7:314:LYS:O	2.34	0.58
11:E:150:ASP:OD1	11:E:151:THR:N	2.37	0.58
11:E:540:ARG:HD3	11:E:573:ASP:HB2	1.86	0.58
12:F:493:TYR:HA	12:F:503:SER:HA	1.84	0.58
12:F:723:ASP:HB3	12:F:779:PRO:HB3	1.86	0.58
15:M:1997:GLU:HG2	15:M:2067:SER:HB2	1.85	0.58
15:M:2028:ASP:HB3	15:M:2031:TYR:HB2	1.85	0.58
1:2:211:LEU:HD12	1:2:214:PHE:CE1	2.39	0.57
2:3:296:GLY:HA2	2:3:323:GLY:HA2	1.86	0.57
4:5:172:LEU:HD22	4:5:252:ASP:HB3	1.85	0.57
4:5:392:LEU:HA	4:5:476:VAL:HG21	1.85	0.57
5:6:744:PRO:C	5:6:746:PHE:N	2.62	0.57
5:6:765:LEU:HB3	5:6:770:ARG:HG3	1.86	0.57
11:E:37:ASP:OD2	11:E:250:SER:OG	2.18	0.57
11:E:286:GLN:OE1	11:E:286:GLN:N	2.37	0.57
11:E:433:GLU:HG2	11:E:543:LEU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F:491:ARG:HG3	12:F:505:VAL:HB	1.85	0.57
12:F:743:TRP:HE3	12:F:755:ILE:HG23	1.68	0.57
15:M:1718:PHE:O	15:M:1720:LYS:NZ	2.36	0.57
16:N:600:ARG:HG2	16:N:651:LEU:HD11	1.84	0.57
1:2:549:LYS:HE3	18:2:902:ADP:O3B	2.04	0.57
1:2:662:PRO:HB3	1:2:801:GLY:HA2	1.86	0.57
2:3:96:ILE:O	2:3:156:SER:N	2.35	0.57
2:3:261:MET:N	2:3:261:MET:HE2	2.20	0.57
3:4:241:LEU:O	3:4:304:ARG:N	2.37	0.57
3:4:338:VAL:HG23	3:4:395:GLN:HB2	1.86	0.57
4:5:737:PHE:HB2	4:5:740:THR:HA	1.86	0.57
6:7:363:PHE:HD1	6:7:366:LEU:HD12	1.68	0.57
12:G:540:ASN:O	12:G:559:HIS:ND1	2.37	0.57
15:M:1944:PHE:HD1	15:M:2040:LEU:HG	1.69	0.57
16:N:387:LEU:HD13	16:N:535:LEU:HB2	1.86	0.57
1:2:425:GLU:OE1	1:2:459:ARG:HB3	2.03	0.57
1:2:747:ARG:HE	1:2:751:LYS:HZ1	1.52	0.57
2:3:474:GLU:N	2:3:515:ALA:O	2.33	0.57
3:4:317:LEU:O	6:7:341:ARG:NH2	2.36	0.57
4:5:34:PHE:CE1	4:5:68:LEU:HA	2.39	0.57
4:5:774:GLY:N	15:M:2190:PRO:HD3	2.19	0.57
5:6:141:GLU:O	5:6:145:ILE:HD12	2.04	0.57
5:6:734:LEU:HD23	5:6:741:ALA:HB3	1.85	0.57
10:D:4:ASN:O	12:F:904:ARG:NH1	2.36	0.57
12:G:715:GLU:OE1	12:G:715:GLU:N	2.36	0.57
12:G:744:PRO:HA	12:G:754:CYS:HA	1.86	0.57
12:H:663:ASN:ND2	12:H:665:ASN:OD1	2.35	0.57
15:M:2193:SER:O	15:M:2196:GLN:HG3	2.04	0.57
8:B:89:ALA:HB1	8:B:93:LEU:HD22	1.86	0.57
11:E:642:GLU:O	11:E:645:THR:OG1	2.22	0.57
12:G:839:ASP:O	12:G:843:ASN:HB2	2.04	0.57
1:2:794:ARG:O	1:2:795:ARG:HD3	2.05	0.57
3:4:865:LEU:O	3:4:869:ILE:HG12	2.04	0.57
5:6:695:LEU:HD13	5:6:714:VAL:HA	1.85	0.57
5:6:706:MET:HB2	5:6:712:PHE:HZ	1.69	0.57
7:A:58:GLN:HG2	7:A:62:MET:CE	2.34	0.57
7:A:186:ASP:O	11:E:478:TRP:NE1	2.34	0.57
12:H:499:VAL:HG11	12:H:540:ASN:HA	1.86	0.57
2:3:400:ARG:NH1	2:3:402:ASP:O	2.38	0.57
2:3:476:ASP:O	2:3:483:ARG:NH1	2.38	0.57
4:5:60:SER:HB2	4:5:138:ILE:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:773:SER:C	15:M:2190:PRO:HD3	2.30	0.57
5:6:174:TYR:HB2	5:6:287:LEU:HB2	1.85	0.57
5:6:297:THR:HB	5:6:359:VAL:HG12	1.87	0.57
5:6:395:CYS:HA	5:6:462:ILE:H	1.70	0.57
6:7:479:ARG:HB3	6:7:519:GLY:HA3	1.86	0.57
6:7:502:VAL:CB	6:7:509:GLU:HG3	2.34	0.57
7:A:72:TYR:CZ	7:A:76:LEU:HD11	2.39	0.57
8:B:90:PRO:HD2	8:B:93:LEU:HD13	1.86	0.57
12:F:571:PRO:HG3	12:H:782:VAL:HG22	1.85	0.57
15:M:1945:LEU:HD12	15:M:1946:SER:H	1.69	0.57
15:M:2195:VAL:HA	15:M:2198:LEU:HD12	1.87	0.57
1:2:398:PRO:HB2	1:2:401:ARG:HG3	1.86	0.57
2:3:716:ARG:NH1	2:3:725:ASP:OD2	2.38	0.57
3:4:915:LYS:HG3	3:4:916:VAL:HG23	1.87	0.57
4:5:621:LYS:HG2	4:5:625:ASN:OD1	2.05	0.57
5:6:529:LEU:HD23	5:6:746:PHE:CE2	2.39	0.57
6:7:467:SER:O	6:7:471:LYS:NZ	2.31	0.57
11:E:321:GLN:OE1	11:E:321:GLN:N	2.38	0.57
2:3:415:LYS:HG2	2:3:416:SER:N	2.19	0.57
2:3:530:HIS:H	2:3:694:LYS:NZ	2.03	0.57
2:3:673:GLN:OE1	2:3:677:ASN:ND2	2.37	0.57
4:5:551:ASP:O	4:5:552:MET:HE2	2.03	0.57
4:5:667:GLU:O	4:5:668:LEU:HB2	2.04	0.57
6:7:16:ASN:HA	6:7:19:ASN:ND2	2.20	0.57
6:7:415:ALA:O	6:7:418:ILE:HG22	2.04	0.57
7:A:20:TYR:HA	7:A:27:VAL:HG21	1.87	0.57
11:E:312:THR:OG1	11:E:314:ASP:OD1	2.11	0.57
11:E:559:SER:OG	11:E:562:LYS:NZ	2.27	0.57
12:G:578:ILE:HA	12:G:592:THR:HA	1.87	0.57
15:M:1912:MET:HB2	15:M:1916:ASN:HB2	1.85	0.57
2:3:100:LEU:O	2:3:111:TRP:NE1	2.38	0.57
2:3:298:PHE:HA	2:3:321:ILE:HD13	1.87	0.57
3:4:265:PRO:HB3	3:4:325:LEU:HB2	1.87	0.57
3:4:713:ASP:O	3:4:717:ASP:N	2.31	0.57
4:5:385:LYS:HA	4:5:388:ILE:HD12	1.86	0.57
5:6:827:ALA:HA	5:6:830:LEU:HD12	1.86	0.57
9:C:19:LYS:N	9:C:73:GLU:O	2.31	0.57
10:D:235:PRO:HD3	10:D:256:TYR:HE2	1.70	0.57
11:E:511:VAL:O	11:E:515:GLU:HG2	2.05	0.57
15:M:1591:LEU:HD21	15:M:1646:ILE:HD11	1.85	0.57
15:M:1720:LYS:HD2	15:M:1862:ASP:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:230:ARG:NH1	1:2:243:GLU:OE1	2.38	0.57
1:2:340:ASN:OD1	1:2:374:ARG:NH1	2.38	0.57
2:3:104:ARG:HH22	9:C:86:ASN:HA	1.70	0.57
2:3:683:TYR:HA	2:3:686:LEU:HB2	1.86	0.57
3:4:266:GLN:HE22	3:4:323:ASP:HB3	1.68	0.57
5:6:318:VAL:HG13	5:6:334:PRO:HG3	1.86	0.57
8:B:47:HIS:HB3	10:D:120:ASN:HD22	1.70	0.57
10:D:196:ASP:O	10:D:200:LYS:NZ	2.28	0.57
15:M:1798:TRP:O	15:M:1802:ALA:N	2.38	0.57
1:2:222:THR:OG1	1:2:224:ARG:O	2.22	0.56
1:2:526:ASN:HA	1:2:532:SER:HA	1.86	0.56
4:5:422:LYS:NZ	20:5:803:AGS:PB	2.77	0.56
5:6:545:LYS:HZ3	5:6:833:GLN:HE22	1.53	0.56
5:6:801:GLU:O	5:6:805:ARG:NE	2.34	0.56
10:D:146:CYS:O	10:D:150:LYS:HG3	2.04	0.56
11:E:346:ALA:HB1	11:E:558:GLU:HB2	1.86	0.56
12:F:478:PRO:HB2	12:F:536:LEU:HD11	1.87	0.56
12:F:494:LEU:HB2	12:F:502:VAL:HG13	1.86	0.56
12:G:597:PHE:HB3	12:G:610:GLU:HB3	1.86	0.56
15:M:1615:LEU:HD12	15:M:1616:SER:H	1.69	0.56
2:3:98:ILE:O	2:3:157:PHE:HA	2.05	0.56
3:4:318:ASN:OD1	3:4:321:ASP:N	2.36	0.56
3:4:869:ILE:HD12	3:4:924:ARG:HD2	1.86	0.56
3:4:909:ARG:NH1	5:6:694:SER:OG	2.38	0.56
6:7:466:LYS:H	6:7:469:LEU:HB3	1.70	0.56
11:E:123:LEU:HD11	11:E:254:GLN:HE21	1.70	0.56
15:M:1480:PHE:CD1	15:M:1482:MET:HB3	2.39	0.56
15:M:1723:ASN:N	15:M:1859:VAL:O	2.35	0.56
16:N:60:ILE:O	16:N:64:GLU:HG2	2.04	0.56
1:2:774:ILE:HG22	1:2:776:PRO:HD3	1.87	0.56
2:3:390:GLU:O	2:3:392:ASN:ND2	2.39	0.56
2:3:670:GLN:H	2:3:720:THR:HA	1.70	0.56
3:4:883:PHE:HA	3:4:886:LEU:HD12	1.87	0.56
4:5:356:GLU:O	4:5:360:LEU:HG	2.03	0.56
4:5:689:MET:HG3	4:5:693:SER:HB3	1.87	0.56
5:6:506:ASN:OD1	5:6:507:SER:N	2.38	0.56
5:6:810:ILE:HD13	5:6:826:GLU:HB3	1.87	0.56
6:7:200:TYR:CE1	6:7:202:LEU:HB2	2.39	0.56
6:7:349:VAL:HA	6:7:383:GLN:HA	1.87	0.56
6:7:550:LYS:NZ	13:I:51:DT:OP2	2.38	0.56
6:7:707:MET:HE2	6:7:709:ASP:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:D:246:LEU:HD11	10:D:254:PRO:HB2	1.88	0.56
10:D:256:TYR:HB2	10:D:269:LEU:HB2	1.88	0.56
12:F:881:LYS:NZ	12:G:603:PHE:O	2.37	0.56
12:G:897:ALA:O	12:G:900:LYS:HG3	2.04	0.56
12:H:621:GLN:HG3	12:H:622:ASN:H	1.70	0.56
15:M:1592:LEU:HD21	15:M:1598:THR:HA	1.87	0.56
16:N:296:TRP:O	16:N:307:ILE:N	2.33	0.56
16:N:450:ARG:NH2	16:N:457:GLN:OE1	2.37	0.56
1:2:758:ILE:HG13	1:2:762:LEU:HD23	1.87	0.56
4:5:37:GLU:HA	4:5:44:PHE:CE1	2.40	0.56
5:6:112:ARG:NH2	5:6:113:GLU:OE2	2.37	0.56
5:6:764:ILE:H	5:6:818:GLU:HA	1.71	0.56
7:A:97:LEU:HB3	7:A:131:LEU:HD13	1.88	0.56
10:D:158:LEU:HA	10:D:161:LEU:HD12	1.88	0.56
10:D:269:LEU:HA	10:D:275:TYR:HE2	1.70	0.56
11:E:503:GLN:OE1	11:E:547:ARG:NH2	2.38	0.56
11:E:618:ALA:HB1	11:E:636:ASP:HB3	1.87	0.56
12:H:626:PHE:HD1	12:H:640:LEU:HA	1.71	0.56
2:3:42:VAL:HG22	2:3:96:ILE:HD12	1.87	0.56
2:3:341:MET:HA	2:3:341:MET:HE3	1.86	0.56
3:4:562:ILE:HD11	3:4:807:ALA:HB2	1.88	0.56
3:4:725:THR:HB	6:7:657:ASN:ND2	2.19	0.56
3:4:887:ILE:O	3:4:891:ASN:ND2	2.39	0.56
4:5:382:GLU:HA	4:5:385:LYS:HD3	1.88	0.56
8:B:173:LEU:HG	8:B:177:GLU:HG3	1.86	0.56
10:D:205:GLU:HG2	10:D:206:LEU:HG	1.86	0.56
10:D:243:ASP:OD2	10:D:246:LEU:N	2.35	0.56
11:E:396:LEU:O	11:E:401:LEU:N	2.38	0.56
11:E:525:TYR:HB3	11:E:566:PRO:HB2	1.86	0.56
12:F:919:GLU:HA	12:F:922:TYR:CD2	2.40	0.56
12:H:741:HIS:HB2	12:H:757:VAL:HG13	1.87	0.56
1:2:692:ASP:OD1	1:2:693:GLU:N	2.39	0.56
2:3:210:HIS:HD2	6:7:5:LEU:HB2	1.71	0.56
2:3:251:ILE:HB	2:3:279:ASP:HB3	1.86	0.56
4:5:451:ALA:HA	4:5:467:GLY:H	1.70	0.56
5:6:275:ARG:HA	5:6:291:SER:H	1.71	0.56
6:7:121:ILE:HA	6:7:125:MET:HB2	1.87	0.56
6:7:251:VAL:HB	6:7:309:ALA:HB1	1.87	0.56
6:7:397:VAL:HB	6:7:400:ARG:HB2	1.88	0.56
7:A:71:GLN:NE2	9:C:24:ILE:HG12	2.21	0.56
11:E:321:GLN:NE2	11:E:410:VAL:HB	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:579:TYR:CD2	11:E:637:LEU:HD13	2.41	0.56
12:H:743:TRP:CD1	12:H:764:PRO:HD3	2.40	0.56
15:M:1339:PHE:HB3	15:M:1609:GLN:HG3	1.87	0.56
16:N:481:MET:O	16:N:524:VAL:N	2.31	0.56
1:2:439:ASN:O	1:2:443:GLY:N	2.38	0.56
1:2:482:ARG:HA	1:2:485:ARG:HE	1.71	0.56
2:3:413:THR:H	18:3:1001:ADP:PB	2.29	0.56
2:3:428:LEU:HD22	2:3:468:GLY:HA3	1.87	0.56
2:3:476:ASP:HB3	2:3:533:ILE:HD11	1.88	0.56
3:4:261:LEU:HB2	3:4:268:VAL:HG11	1.87	0.56
3:4:760:PRO:HB3	3:4:809:ALA:HB3	1.88	0.56
4:5:641:THR:O	4:5:642:GLU:HG2	2.06	0.56
5:6:118:PHE:HD2	5:6:122:PHE:HB3	1.69	0.56
5:6:573:VAL:HG22	5:6:679:LEU:HD11	1.88	0.56
11:E:90:ILE:O	11:E:133:ASN:ND2	2.38	0.56
11:E:311:LYS:NZ	11:E:312:THR:O	2.39	0.56
16:N:225:THR:HG22	16:N:285:LEU:HD21	1.87	0.56
1:2:310:ARG:N	1:2:313:ASN:OD1	2.29	0.56
1:2:391:GLN:NE2	1:2:392:GLU:O	2.38	0.56
1:2:763:LEU:O	1:2:767:ILE:HG12	2.06	0.56
2:3:45:ILE:HG12	2:3:92:LEU:HD11	1.86	0.56
2:3:407:MET:HE1	2:3:415:LYS:HG3	1.87	0.56
5:6:175:TYR:HB2	5:6:285:GLY:HA3	1.88	0.56
6:7:140:ASP:HA	6:7:143:LEU:HB3	1.87	0.56
6:7:473:ILE:HD12	6:7:520:ILE:HD12	1.87	0.56
11:E:490:GLU:O	11:E:494:ARG:NH1	2.38	0.56
12:F:484:THR:O	12:F:492:ARG:NH2	2.39	0.56
15:M:1717:GLU:C	15:M:1837:HIS:HE2	2.13	0.56
15:M:2164:CYS:HA	15:M:2185:TRP:HA	1.87	0.56
1:2:234:LEU:O	1:2:238:ASN:N	2.39	0.56
1:2:473:VAL:HG22	1:2:474:PHE:H	1.69	0.56
2:3:437:SER:HA	4:5:506:LYS:HG2	1.88	0.56
3:4:273:ASP:O	3:4:277:LYS:HG2	2.05	0.56
3:4:312:LYS:HG2	3:4:317:LEU:HG	1.87	0.56
3:4:314:MET:O	6:7:341:ARG:NH2	2.38	0.56
3:4:634:PHE:N	3:4:674:SER:O	2.27	0.56
4:5:66:GLU:OE2	11:E:379:TYR:OH	2.24	0.56
5:6:356:TRP:HD1	5:6:381:LEU:H	1.54	0.56
5:6:696:ARG:NH1	5:6:794:ARG:HG2	2.20	0.56
8:B:26:LYS:HZ1	8:B:68:SER:HA	1.71	0.56
11:E:103:TYR:HD2	11:E:116:PHE:HB3	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:353:GLU:OE1	11:E:353:GLU:N	2.31	0.56
12:F:633:PHE:HZ	12:H:661:LEU:HD22	1.71	0.56
12:H:493:TYR:HE1	12:H:501:TYR:HD2	1.54	0.56
15:M:1487:LEU:HG	15:M:1590:LEU:HD11	1.88	0.56
15:M:2069:ILE:HA	15:M:2072:ILE:HD12	1.88	0.56
15:M:2165:SER:N	15:M:2184:ALA:O	2.39	0.56
1:2:353:GLN:HG3	1:2:355:SER:H	1.71	0.56
1:2:688:ASP:HB2	1:2:691:ALA:HB3	1.88	0.56
1:2:786:VAL:CG1	1:2:810:LEU:HD11	2.36	0.56
2:3:435:ARG:NH2	2:3:477:LYS:O	2.32	0.56
2:3:455:ARG:HH11	2:3:501:GLY:H	1.53	0.56
3:4:304:ARG:HB3	3:4:465:HIS:HD2	1.71	0.56
3:4:365:ILE:HD13	5:6:440:LEU:HD22	1.88	0.56
3:4:417:LEU:HG	3:4:461:VAL:HG13	1.88	0.56
5:6:696:ARG:HH11	5:6:794:ARG:HG2	1.70	0.56
6:7:518:ASN:ND2	6:7:560:ARG:O	2.39	0.56
7:A:54:LEU:HA	7:A:57:GLN:HB2	1.86	0.56
7:A:63:LEU:C	7:A:63:LEU:HD12	2.31	0.56
8:B:164:ASN:OD1	8:B:165:GLU:N	2.39	0.56
9:C:138:HIS:O	9:C:141:SER:OG	2.19	0.56
11:E:14:LYS:O	11:E:18:ASN:ND2	2.38	0.56
12:G:584:THR:HB	12:G:587:ARG:O	2.06	0.56
16:N:476:THR:O	16:N:521:LYS:NZ	2.38	0.56
1:2:248:HIS:HA	1:2:251:GLU:HB2	1.88	0.55
4:5:50:LEU:O	4:5:54:ILE:HG12	2.06	0.55
5:6:766:THR:O	5:6:770:ARG:N	2.34	0.55
7:A:64:ASP:O	7:A:68:ALA:N	2.38	0.55
12:F:914:ILE:O	12:F:918:ARG:HG3	2.06	0.55
15:M:1592:LEU:HD13	15:M:1601:LEU:HD13	1.87	0.55
1:2:553:LEU:HG	1:2:605:LEU:HD22	1.89	0.55
3:4:254:THR:HA	3:4:257:LEU:HB3	1.88	0.55
3:4:682:TYR:HB3	3:4:709:LEU:HD13	1.88	0.55
4:5:635:ILE:HA	4:5:638:LEU:HD12	1.88	0.55
8:B:21:GLU:OE1	10:D:135:ARG:NH1	2.32	0.55
12:H:729:TRP:CZ3	12:H:786:LEU:HB3	2.42	0.55
15:M:1942:LYS:O	15:M:1950:GLN:HG2	2.06	0.55
1:2:322:GLY:HA3	1:2:390:LEU:HD12	1.87	0.55
1:2:418:SER:OG	1:2:419:LYS:N	2.38	0.55
1:2:706:SER:HB3	5:6:557:LYS:HB3	1.87	0.55
2:3:661:GLN:NE2	2:3:665:GLU:OE2	2.35	0.55
3:4:530:ILE:HG21	3:4:577:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:501:THR:HA	4:5:514:ASN:HA	1.87	0.55
4:5:587:GLN:HA	4:5:590:ASN:HD21	1.71	0.55
4:5:613:ARG:HD2	4:5:614:LEU:H	1.70	0.55
8:B:33:THR:N	8:B:63:MET:O	2.40	0.55
11:E:506:ILE:HD12	11:E:548:LEU:HB2	1.87	0.55
12:F:819:VAL:HG13	12:F:868:ARG:HH21	1.71	0.55
12:G:890:LYS:HA	12:G:921:ARG:HH12	1.71	0.55
15:M:1359:MET:HA	15:M:1426:VAL:O	2.06	0.55
15:M:1960:ILE:HG23	15:M:2003:PHE:HZ	1.70	0.55
16:N:406:LEU:HD11	16:N:438:PHE:HD2	1.71	0.55
1:2:228:GLY:HA2	1:2:231:ILE:HD12	1.89	0.55
1:2:481:GLU:HA	1:2:484:PHE:CD2	2.41	0.55
1:2:546:GLY:CA	18:2:902:ADP:H5'1	2.35	0.55
2:3:202:TYR:HD1	2:3:209:PHE:H	1.53	0.55
2:3:681:LYS:O	2:3:684:THR:OG1	2.19	0.55
3:4:304:ARG:HH12	3:4:423:LEU:HD21	1.71	0.55
4:5:169:THR:HB	4:5:254:GLN:HE21	1.71	0.55
11:E:333:SER:OG	11:E:334:LEU:N	2.38	0.55
12:F:490:ASP:OD1	12:F:506:LYS:N	2.38	0.55
12:F:689:PHE:HB3	12:F:693:GLY:HA2	1.87	0.55
16:N:500:SER:OG	16:N:620:ARG:NH2	2.40	0.55
1:2:323:VAL:H	1:2:391:GLN:H	1.53	0.55
4:5:529:ARG:NE	4:5:531:ASP:OD1	2.39	0.55
5:6:314:CYS:SG	5:6:333:CYS:HB3	2.46	0.55
6:7:82:LEU:HD13	6:7:85:ILE:HD12	1.89	0.55
6:7:124:ASN:OD1	6:7:125:MET:N	2.39	0.55
6:7:468:GLN:HB3	20:7:903:AGS:H5'1	1.88	0.55
8:B:11:PHE:O	8:B:179:ASN:ND2	2.40	0.55
10:D:174:LEU:HB3	10:D:175:LEU:HD12	1.88	0.55
12:F:549:SER:OG	12:F:578:ILE:O	2.23	0.55
12:F:601:ASN:OD1	12:F:604:GLY:N	2.39	0.55
12:F:912:LYS:NZ	12:F:913:LYS:HE3	2.21	0.55
12:H:543:GLY:HA3	12:H:556:TYR:HE1	1.71	0.55
12:H:638:TYR:N	12:H:655:CYS:O	2.28	0.55
15:M:1487:LEU:HB3	15:M:1502:PHE:H	1.71	0.55
15:M:1595:PRO:HG3	15:M:1614:LYS:HB2	1.88	0.55
16:N:40:ALA:HB2	16:N:78:PHE:HD1	1.72	0.55
1:2:232:ARG:HB2	1:2:283:TYR:CZ	2.41	0.55
1:2:317:LEU:HB3	1:2:429:ILE:HG13	1.88	0.55
1:2:322:GLY:C	1:2:459:ARG:HH21	2.15	0.55
2:3:104:ARG:NH1	9:C:89:LYS:HB3	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:544:LEU:HD13	3:4:628:VAL:HG21	1.89	0.55
4:5:473:ASP:OD1	4:5:516:ARG:N	2.29	0.55
4:5:586:GLN:O	4:5:590:ASN:ND2	2.39	0.55
5:6:408:THR:O	5:6:418:SER:N	2.40	0.55
5:6:529:LEU:O	5:6:533:ILE:N	2.38	0.55
5:6:591:PHE:CZ	5:6:751:LEU:HD23	2.42	0.55
15:M:2119:PHE:HA	15:M:2127:ILE:HG12	1.88	0.55
16:N:65:GLN:HE22	16:N:70:TRP:HZ3	1.53	0.55
16:N:287:LEU:HD13	16:N:325:MET:HE2	1.89	0.55
1:2:501:MET:HE3	1:2:502:ALA:HB2	1.88	0.55
1:2:549:LYS:NZ	1:2:651:ASN:OD1	2.40	0.55
1:2:657:TYR:HD1	1:2:684:ARG:HE	1.53	0.55
2:3:89:LEU:HD11	6:7:219:ALA:HB3	1.88	0.55
2:3:480:ASP:HA	2:3:483:ARG:HE	1.71	0.55
2:3:708:LEU:HD12	2:3:733:LEU:HD11	1.88	0.55
3:4:203:TYR:O	3:4:206:ARG:HG2	2.07	0.55
3:4:607:ARG:HA	3:4:614:LEU:HG	1.88	0.55
3:4:777:MET:HB2	3:4:830:ARG:NH2	2.22	0.55
4:5:258:LEU:HG	4:5:276:MET:HE3	1.88	0.55
8:B:171:ASP:OD1	8:B:172:ASN:N	2.38	0.55
12:G:478:PRO:HD3	12:G:577:ARG:HH21	1.71	0.55
12:G:676:TYR:O	12:G:680:ASN:N	2.27	0.55
12:G:825:GLU:O	12:G:829:ARG:HG3	2.07	0.55
2:3:209:PHE:HB2	6:7:8:ILE:O	2.07	0.55
4:5:354:GLU:HB2	4:5:605:TYR:CZ	2.41	0.55
5:6:544:LYS:HA	5:6:547:ILE:HD12	1.88	0.55
8:B:116:PRO:O	8:B:119:TRP:N	2.39	0.55
12:F:708:SER:OG	12:F:717:LYS:O	2.25	0.55
16:N:434:TRP:N	16:N:482:ILE:O	2.31	0.55
16:N:549:ARG:O	16:N:553:HIS:ND1	2.39	0.55
1:2:430:TYR:HA	1:2:451:ILE:HG13	1.89	0.55
1:2:856:GLN:OE1	1:2:859:ARG:NH2	2.40	0.55
2:3:400:ARG:NH2	2:3:544:ASP:OD1	2.40	0.55
2:3:406:LEU:HB3	2:3:546:LEU:HD13	1.88	0.55
2:3:581:PRO:HG2	2:3:583:ARG:NH1	2.17	0.55
3:4:200:SER:HA	3:4:224:LEU:HD11	1.89	0.55
3:4:314:MET:HA	3:4:317:LEU:HD12	1.88	0.55
3:4:524:ARG:NH2	3:4:530:ILE:O	2.28	0.55
3:4:721:ALA:HB1	6:7:661:VAL:HG23	1.87	0.55
3:4:794:THR:HB	3:4:797:GLN:HB2	1.87	0.55
11:E:631:GLU:OE2	11:E:633:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F:726:MET:HG3	12:F:730:LYS:HE3	1.88	0.55
12:H:538:PHE:O	12:H:545:LEU:N	2.29	0.55
15:M:2014:ARG:HA	15:M:2017:LYS:HE2	1.89	0.55
16:N:86:GLU:O	16:N:90:GLU:HG2	2.06	0.55
1:2:231:ILE:C	1:2:233:THR:H	2.15	0.55
2:3:340:GLN:HB3	2:3:658:LYS:HG2	1.87	0.55
3:4:404:ASP:OD1	3:4:405:PHE:N	2.40	0.55
3:4:565:LEU:HA	3:4:673:ALA:HB3	1.89	0.55
3:4:767:LYS:O	3:4:771:VAL:HG23	2.07	0.55
3:4:844:LYS:N	3:4:851:GLN:OE1	2.40	0.55
4:5:175:ARG:N	4:5:251:ILE:O	2.40	0.55
5:6:294:VAL:HG22	5:6:297:THR:HG22	1.88	0.55
6:7:127:LEU:HG	6:7:128:PRO:HD2	1.89	0.55
8:B:38:ARG:NH1	12:F:846:GLU:O	2.29	0.55
9:C:106:SER:HB3	9:C:110:LYS:NZ	2.21	0.55
9:C:187:THR:HB	9:C:191:MET:HE1	1.88	0.55
10:D:285:LEU:O	10:D:289:ASP:N	2.40	0.55
11:E:319:ASN:OD1	11:E:320:ILE:N	2.40	0.55
12:H:539:LEU:HA	12:H:544:THR:HA	1.88	0.55
16:N:229:VAL:HG13	16:N:327:LEU:HD11	1.88	0.55
2:3:396:GLY:HA3	6:7:475:LYS:HE3	1.89	0.54
4:5:422:LYS:HZ3	20:5:803:AGS:PB	2.30	0.54
5:6:593:PRO:C	5:6:594:ARG:HD3	2.31	0.54
8:B:7:LEU:O	10:D:71:ARG:NH1	2.41	0.54
9:C:19:LYS:HA	9:C:43:LYS:HA	1.88	0.54
10:D:229:PHE:HB3	10:D:294:ILE:HB	1.89	0.54
12:H:588:VAL:N	12:H:600:PHE:O	2.27	0.54
15:M:1741:VAL:HA	15:M:1744:ILE:HG12	1.90	0.54
15:M:1960:ILE:HG23	15:M:2003:PHE:CZ	2.42	0.54
16:N:437:SER:H	16:N:486:GLY:HA3	1.71	0.54
16:N:676:VAL:HB	16:N:679:SER:HB2	1.89	0.54
1:2:835:ASP:HA	1:2:838:ILE:HD12	1.89	0.54
3:4:582:HIS:O	3:4:585:THR:OG1	2.24	0.54
4:5:184:ARG:HH21	4:5:242:ILE:HD11	1.73	0.54
4:5:715:GLU:HB2	4:5:755:LEU:HD23	1.88	0.54
6:7:221:SER:O	6:7:223:LYS:N	2.40	0.54
6:7:247:ARG:HA	6:7:345:PRO:HB3	1.88	0.54
6:7:435:LEU:HA	6:7:454:ILE:HG13	1.89	0.54
6:7:462:PRO:HA	20:7:903:AGS:S1G	2.48	0.54
12:H:722:LEU:HD12	12:H:776:ILE:HA	1.89	0.54
1:2:508:HIS:HB3	1:2:511:ILE:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:832:TYR:HB2	1:2:836:ARG:NH1	2.21	0.54
3:4:824:GLU:HA	3:4:827:ARG:HG2	1.89	0.54
4:5:433:SER:OG	4:5:600:LYS:NZ	2.40	0.54
5:6:382:ARG:O	5:6:386:VAL:N	2.33	0.54
6:7:415:ALA:N	6:7:433:LEU:HD11	2.22	0.54
15:M:2107:LEU:HD12	15:M:2114:ILE:HG13	1.88	0.54
16:N:178:GLN:HB2	16:N:531:ARG:HH21	1.73	0.54
16:N:268:ILE:HG13	16:N:283:LEU:HG	1.89	0.54
2:3:252:ASP:H	2:3:280:ASP:CG	2.15	0.54
3:4:438:THR:C	3:4:461:VAL:HG23	2.33	0.54
3:4:682:TYR:OH	3:4:835:ASP:OD1	2.25	0.54
3:4:770:LEU:HD22	3:4:802:ILE:HD11	1.89	0.54
4:5:383:ASP:OD1	4:5:384:ILE:HD12	2.06	0.54
5:6:406:ASP:HB2	5:6:449:THR:HG23	1.88	0.54
5:6:707:SER:OG	5:6:798:ARG:NH1	2.40	0.54
6:7:195:ASN:C	6:7:306:LYS:HZ1	2.15	0.54
6:7:353:GLY:HA2	6:7:379:GLN:H	1.73	0.54
6:7:644:TYR:O	6:7:647:THR:OG1	2.25	0.54
11:E:105:ILE:N	11:E:115:SER:O	2.33	0.54
11:E:325:TYR:HB3	11:E:404:ILE:HG23	1.88	0.54
12:H:909:SER:O	12:H:912:LYS:HG3	2.07	0.54
15:M:1428:GLU:H	15:M:1700:GLY:HA2	1.71	0.54
15:M:1915:PHE:O	15:M:1939:TRP:N	2.39	0.54
16:N:22:TYR:HD2	16:N:27:ARG:HH22	1.54	0.54
1:2:549:LYS:N	18:2:902:ADP:O1A	2.40	0.54
2:3:257:THR:HA	2:3:275:ASP:HA	1.89	0.54
2:3:293:ASN:O	2:3:327:TYR:N	2.38	0.54
2:3:445:ALA:N	2:3:458:GLU:O	2.37	0.54
2:3:676:ILE:HG13	6:7:621:MET:HE3	1.90	0.54
3:4:305:PRO:O	3:4:465:HIS:ND1	2.40	0.54
4:5:413:LEU:O	4:5:554:PHE:HB3	2.07	0.54
6:7:149:ARG:HH12	6:7:268:GLU:HG2	1.73	0.54
9:C:101:ASN:CG	9:C:103:HIS:H	2.15	0.54
10:D:260:ILE:HG12	10:D:278:ARG:HD2	1.90	0.54
12:F:754:CYS:O	12:F:772:SER:N	2.40	0.54
12:G:743:TRP:CD1	12:G:764:PRO:HD3	2.42	0.54
12:H:782:VAL:O	12:H:785:LYS:HG2	2.07	0.54
16:N:209:PRO:CB	16:N:624:TRP:HB2	2.37	0.54
1:2:600:ASP:OD2	1:2:643:ARG:HG2	2.07	0.54
1:2:778:LEU:HD23	1:2:829:VAL:HG21	1.89	0.54
3:4:465:HIS:HE1	3:4:467:LYS:HG2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:189:VAL:HG11	5:6:197:LEU:H	1.72	0.54
5:6:761:PHE:CD2	5:6:815:CYS:HB3	2.43	0.54
6:7:411:TYR:CE1	6:7:430:LYS:HB3	2.42	0.54
11:E:434:VAL:HG23	11:E:498:LEU:HD13	1.90	0.54
11:E:589:PRO:HD2	11:E:592:LEU:HG	1.89	0.54
12:G:544:THR:N	12:G:557:ARG:O	2.38	0.54
12:H:628:VAL:HA	12:H:638:TYR:HA	1.90	0.54
12:H:685:LYS:NZ	12:H:699:GLY:O	2.36	0.54
12:H:778:MET:HG2	12:H:780:VAL:HG23	1.90	0.54
16:N:18:ARG:HB3	16:N:19:PRO:HD3	1.90	0.54
1:2:431:LYS:N	1:2:450:ILE:O	2.40	0.54
1:2:660:THR:HA	1:2:851:VAL:HG12	1.89	0.54
2:3:126:GLU:OE2	2:3:155:LEU:N	2.39	0.54
2:3:200:VAL:HG12	2:3:244:GLU:HB2	1.90	0.54
2:3:655:PHE:HA	2:3:658:LYS:HE2	1.88	0.54
3:4:571:SER:O	3:4:575:SER:N	2.35	0.54
4:5:32:LYS:HA	4:5:35:ILE:HG12	1.90	0.54
4:5:502:ILE:HG13	4:5:515:SER:HB2	1.89	0.54
7:A:99:SER:HA	8:B:1:MET:N	2.22	0.54
7:A:198:ARG:NE	16:N:22:TYR:OH	2.35	0.54
9:C:118:LYS:O	9:C:122:ASN:N	2.34	0.54
10:D:231:HIS:HB2	10:D:274:ILE:HG12	1.90	0.54
11:E:99:ASP:OD2	11:E:102:GLU:N	2.35	0.54
16:N:476:THR:HG23	16:N:481:MET:HE1	1.88	0.54
16:N:480:THR:HA	16:N:522:ASN:HB3	1.90	0.54
16:N:500:SER:OG	16:N:505:GLN:NE2	2.41	0.54
2:3:161:PHE:HB2	2:3:165:ALA:H	1.73	0.54
2:3:683:TYR:OH	2:3:698:THR:O	2.23	0.54
3:4:397:ILE:N	3:4:417:LEU:O	2.30	0.54
3:4:521:LEU:HG	3:4:742:LEU:HG	1.89	0.54
3:4:545:PHE:HD1	3:4:810:LYS:HG3	1.72	0.54
3:4:703:ASP:HA	3:4:800:SER:HB2	1.89	0.54
3:4:830:ARG:HA	3:4:833:ILE:HD12	1.90	0.54
4:5:144:ASN:OD1	4:5:145:GLN:N	2.41	0.54
4:5:677:VAL:O	4:5:681:ILE:HG12	2.08	0.54
5:6:111:VAL:HG23	5:6:180:PHE:CE1	2.42	0.54
5:6:339:GLU:OE1	5:6:339:GLU:N	2.36	0.54
6:7:483:THR:N	6:7:522:CYS:O	2.41	0.54
6:7:540:VAL:O	6:7:544:GLN:N	2.41	0.54
7:A:93:ARG:O	7:A:97:LEU:HG	2.08	0.54
7:A:101:ALA:HB2	7:A:131:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:197:GLU:O	7:A:201:GLN:NE2	2.27	0.54
12:F:538:PHE:HB3	12:F:545:LEU:HB2	1.89	0.54
12:F:752:LEU:O	12:F:774:MET:N	2.38	0.54
12:F:837:LEU:O	12:F:841:LEU:HG	2.08	0.54
12:H:744:PRO:HA	12:H:754:CYS:HA	1.88	0.54
16:N:333:TYR:O	16:N:337:ASN:N	2.38	0.54
1:2:855:ARG:O	1:2:858:ARG:HG2	2.08	0.54
2:3:275:ASP:OD1	2:3:276:VAL:N	2.41	0.54
4:5:259:GLN:HE21	4:5:271:PRO:HB3	1.73	0.54
4:5:580:ALA:O	4:5:583:MET:HG3	2.08	0.54
4:5:667:GLU:O	4:5:667:GLU:HG2	2.08	0.54
5:6:356:TRP:CD1	5:6:381:LEU:H	2.26	0.54
7:A:180:VAL:HA	16:N:18:ARG:NH2	2.23	0.54
15:M:2211:ASP:OD1	15:M:2212:ILE:HD12	2.08	0.54
16:N:424:LEU:HD12	16:N:429:PRO:HD3	1.89	0.54
1:2:209:ARG:HH22	1:2:212:LYS:HG3	1.72	0.54
1:2:232:ARG:HB3	1:2:282:HIS:HB3	1.89	0.54
2:3:386:MET:HE2	2:3:714:LYS:HB3	1.90	0.54
4:5:266:PRO:HB2	4:5:269:GLU:HB2	1.89	0.54
4:5:614:LEU:HD23	4:5:667:GLU:HA	1.90	0.54
5:6:303:GLU:HB3	5:6:354:LEU:O	2.07	0.54
7:A:71:GLN:HE21	9:C:24:ILE:HG12	1.72	0.54
7:A:137:LEU:O	7:A:141:LEU:HG	2.08	0.54
10:D:73:SER:OG	10:D:150:LYS:NZ	2.41	0.54
10:D:280:GLU:HA	10:D:283:ARG:HH21	1.73	0.54
15:M:1333:PRO:HB2	15:M:1409:GLU:CD	2.32	0.54
1:2:423:GLU:HG2	1:2:459:ARG:CG	2.38	0.53
1:2:564:VAL:HG11	1:2:599:ALA:HB2	1.90	0.53
2:3:216:ASP:OD1	2:3:224:ARG:NH2	2.41	0.53
2:3:580:GLU:C	4:5:612:PRO:HA	2.34	0.53
3:4:368:PRO:HD3	5:6:439:GLY:HA2	1.90	0.53
3:4:558:TYR:OH	5:6:736:MET:C	2.51	0.53
4:5:694:GLN:OE1	4:5:694:GLN:N	2.40	0.53
5:6:784:ASP:OD1	5:6:794:ARG:NH1	2.41	0.53
6:7:82:LEU:HB2	6:7:205:LYS:O	2.08	0.53
6:7:426:LEU:O	6:7:430:LYS:HG2	2.07	0.53
9:C:43:LYS:HB3	9:C:75:LEU:HD11	1.89	0.53
11:E:5:ILE:HD11	11:E:145:ASP:HA	1.90	0.53
11:E:592:LEU:HD12	11:E:597:THR:HG21	1.90	0.53
12:F:524:ARG:N	12:F:524:ARG:HD2	2.23	0.53
12:F:892:ASP:OD1	12:F:893:ARG:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:484:THR:HG1	12:G:493:TYR:H	1.55	0.53
12:G:545:LEU:HG	12:G:554:ILE:HD11	1.89	0.53
12:H:648:LYS:HG2	12:H:650:TYR:HE1	1.73	0.53
1:2:250:ALA:HA	1:2:254:ALA:HA	1.89	0.53
2:3:228:PRO:HG2	2:3:230:ILE:HG12	1.90	0.53
2:3:670:GLN:NE2	2:3:671:LEU:O	2.42	0.53
3:4:697:PRO:O	3:4:701:ARG:NH1	2.41	0.53
5:6:538:PHE:HB2	5:6:580:SER:HB2	1.89	0.53
11:E:490:GLU:H	11:E:490:GLU:CD	2.17	0.53
12:H:498:GLU:HB2	12:H:746:ALA:HB2	1.90	0.53
15:M:1657:ASN:O	15:M:1678:ARG:NH2	2.41	0.53
16:N:231:ARG:HH12	16:N:355:THR:HG23	1.74	0.53
1:2:287:ALA:O	1:2:288:ARG:HG3	2.08	0.53
1:2:483:GLU:HA	1:2:486:LYS:HE2	1.90	0.53
2:3:185:ILE:O	2:3:259:GLN:N	2.23	0.53
2:3:524:ASP:OD2	2:3:527:ARG:NH1	2.41	0.53
3:4:235:GLU:HG2	3:4:236:LEU:HD12	1.90	0.53
4:5:163:SER:HB3	4:5:293:THR:HG22	1.90	0.53
4:5:553:ILE:N	4:5:658:ARG:HH12	2.06	0.53
5:6:306:LYS:H	5:6:352:ARG:HB2	1.72	0.53
7:A:58:GLN:HA	7:A:62:MET:O	2.08	0.53
7:A:198:ARG:HA	7:A:201:GLN:HG2	1.90	0.53
11:E:131:LEU:HD13	11:E:156:LYS:HA	1.89	0.53
12:G:710:TRP:H	12:G:710:TRP:CD1	2.25	0.53
16:N:459:LYS:NZ	16:N:514:LYS:HE3	2.23	0.53
1:2:710:ASN:HB2	1:2:740:ALA:HB1	1.90	0.53
2:3:276:VAL:HA	2:3:321:ILE:O	2.08	0.53
4:5:772:ARG:H	15:M:2189:LEU:H	1.55	0.53
5:6:165:ALA:HA	5:6:168:MET:SD	2.48	0.53
5:6:520:VAL:HA	5:6:525:ILE:HD12	1.90	0.53
5:6:780:LEU:HD11	5:6:831:LEU:HD13	1.88	0.53
6:7:501:PRO:HD3	6:7:550:LYS:HE2	1.90	0.53
7:A:67:VAL:HG13	9:C:24:ILE:HG13	1.90	0.53
8:B:124:ARG:HE	9:C:191:MET:HA	1.73	0.53
11:E:125:ALA:C	11:E:127:ARG:HH21	2.16	0.53
12:F:657:LEU:HD12	12:F:658:PRO:HD2	1.91	0.53
12:F:724:SER:O	12:F:728:ILE:HG12	2.07	0.53
12:G:623:TYR:HD2	12:G:624:ARG:HD3	1.72	0.53
12:G:862:TYR:CZ	12:G:866:LEU:HD11	2.44	0.53
15:M:2004:SER:HA	15:M:2007:PHE:CE1	2.42	0.53
1:2:248:HIS:N	1:2:251:GLU:OE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:653:THR:OG1	3:4:665:LEU:O	2.22	0.53
4:5:156:VAL:HA	4:5:298:TYR:HD2	1.72	0.53
4:5:593:GLU:O	4:5:599:MET:HE3	2.09	0.53
4:5:772:ARG:N	15:M:2189:LEU:H	2.06	0.53
5:6:609:THR:HG22	5:6:628:LEU:HG	1.90	0.53
5:6:727:LEU:O	5:6:731:ILE:HG12	2.07	0.53
5:6:744:PRO:O	5:6:746:PHE:N	2.41	0.53
6:7:578:LEU:O	6:7:583:ASN:ND2	2.38	0.53
6:7:685:THR:HB	6:7:688:THR:HG23	1.90	0.53
10:D:75:GLU:HB3	10:D:279:TYR:CE2	2.43	0.53
10:D:253:LYS:NZ	10:D:270:THR:HA	2.22	0.53
11:E:44:MET:HE1	11:E:269:ASN:O	2.09	0.53
11:E:396:LEU:HB3	11:E:401:LEU:C	2.33	0.53
12:G:895:LEU:O	12:G:899:VAL:HG23	2.08	0.53
12:H:484:THR:O	12:H:492:ARG:HD3	2.09	0.53
12:H:620:ALA:HA	12:H:625:VAL:HA	1.91	0.53
15:M:1967:THR:HG21	15:M:2003:PHE:HA	1.89	0.53
1:2:709:GLU:HG2	5:6:764:ILE:HB	1.89	0.53
3:4:199:MET:HA	3:4:230:LEU:HD11	1.91	0.53
3:4:343:LYS:N	3:4:390:SER:O	2.32	0.53
3:4:646:HIS:CD2	3:4:697:PRO:HB2	2.44	0.53
4:5:169:THR:HG23	4:5:288:PRO:HG3	1.90	0.53
5:6:378:ASP:O	5:6:453:SER:OG	2.22	0.53
5:6:830:LEU:O	5:6:833:GLN:HG2	2.09	0.53
12:H:573:GLN:NE2	12:H:576:GLU:OE1	2.41	0.53
16:N:17:LEU:HA	16:N:20:LEU:HD12	1.91	0.53
16:N:175:ALA:HA	16:N:531:ARG:NH1	2.24	0.53
1:2:194:TYR:CZ	1:2:262:LYS:HD3	2.44	0.53
1:2:246:TYR:HA	1:2:249:LEU:HD22	1.90	0.53
1:2:604:CYS:HB3	1:2:646:ILE:HG22	1.91	0.53
1:2:701:ASP:HB3	1:2:747:ARG:HH21	1.73	0.53
3:4:778:ARG:HE	5:6:724:ASP:CG	2.16	0.53
4:5:390:CYS:HB3	4:5:665:LYS:HG2	1.90	0.53
5:6:107:THR:O	5:6:110:LYS:HG3	2.09	0.53
5:6:690:ASN:HB3	5:6:693:LEU:HB2	1.89	0.53
5:6:792:SER:HB2	5:6:796:THR:HA	1.91	0.53
8:B:80:LYS:HZ3	8:B:86:SER:HA	1.72	0.53
10:D:235:PRO:HD2	10:D:240:TRP:CD1	2.44	0.53
11:E:18:ASN:O	11:E:79:ASN:ND2	2.41	0.53
11:E:121:TYR:HA	11:E:141:GLN:HB2	1.90	0.53
12:G:601:ASN:OD1	12:G:604:GLY:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:879:VAL:O	12:G:883:LEU:HG	2.09	0.53
12:H:482:ALA:O	12:H:496:MET:N	2.36	0.53
15:M:1360:LYS:HA	15:M:1379:SER:HB2	1.90	0.53
15:M:1944:PHE:CZ	15:M:2042:GLY:HA3	2.42	0.53
1:2:792:ASP:O	1:2:796:GLU:HG2	2.09	0.53
2:3:48:TYR:O	2:3:52:ASN:ND2	2.42	0.53
2:3:542:ARG:HD2	2:3:700:ARG:NE	2.24	0.53
3:4:775:VAL:O	3:4:779:LYS:HG2	2.08	0.53
4:5:775:VAL:CG1	15:M:2193:SER:HB3	2.38	0.53
5:6:153:ILE:O	5:6:267:PHE:HA	2.09	0.53
6:7:28:PHE:HZ	6:7:33:LEU:HD13	1.74	0.53
6:7:86:LEU:HB2	6:7:207:LEU:HB2	1.90	0.53
6:7:332:ASN:HB2	6:7:334:HIS:CE1	2.43	0.53
6:7:656:VAL:HG23	6:7:708:VAL:O	2.08	0.53
11:E:64:TYR:HB3	11:E:95:PHE:CE2	2.44	0.53
11:E:223:ARG:CZ	11:E:225:GLN:HB3	2.39	0.53
12:G:724:SER:O	12:G:728:ILE:HG12	2.09	0.53
12:H:757:VAL:HG21	12:H:764:PRO:HA	1.90	0.53
16:N:527:SER:O	16:N:530:THR:OG1	2.27	0.53
16:N:631:THR:OG1	16:N:633:CYS:SG	2.63	0.53
1:2:311:GLU:OE1	1:2:311:GLU:N	2.37	0.53
2:3:253:HIS:HD2	2:3:277:ILE:HG23	1.73	0.53
2:3:489:VAL:HG23	2:3:494:THR:O	2.09	0.53
5:6:689:TYR:HE2	5:6:691:ARG:HD3	1.74	0.53
6:7:20:GLU:OE1	6:7:92:LYS:NZ	2.42	0.53
7:A:78:CYS:HA	9:C:49:TRP:CH2	2.44	0.53
7:A:102:TRP:NE1	7:A:134:TYR:OH	2.41	0.53
11:E:17:ARG:NH1	11:E:18:ASN:OD1	2.42	0.53
11:E:66:GLU:OE2	11:E:470:ARG:NH1	2.35	0.53
12:G:757:VAL:HG11	12:G:764:PRO:HB3	1.91	0.53
12:H:643:LEU:HD23	12:H:648:LYS:HD2	1.90	0.53
12:H:702:ASN:O	12:H:724:SER:OG	2.18	0.53
12:H:707:LEU:HB2	12:H:718:TRP:CZ3	2.44	0.53
15:M:1322:TRP:NE1	15:M:1325:LEU:HB2	2.24	0.53
15:M:2162:LEU:HD11	16:N:211:ILE:HG13	1.89	0.53
16:N:486:GLY:N	16:N:489:ASP:OD2	2.42	0.53
1:2:418:SER:HA	1:2:458:ARG:NH2	2.24	0.53
1:2:565:PHE:HA	1:2:605:LEU:HB2	1.91	0.53
1:2:689:GLU:OE1	5:6:790:ARG:NH2	2.40	0.53
1:2:690:GLU:OE1	1:2:690:GLU:N	2.40	0.53
2:3:96:ILE:HG13	2:3:129:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:269:ILE:HD12	3:4:303:VAL:HG11	1.90	0.53
3:4:406:VAL:HG21	3:4:412:PRO:HG3	1.90	0.53
4:5:183:CYS:N	4:5:188:HIS:O	2.42	0.53
4:5:503:SER:HA	4:5:512:VAL:HG22	1.90	0.53
5:6:274:HIS:N	5:6:289:SER:O	2.42	0.53
7:A:73:PHE:CZ	7:A:77:LEU:HD11	2.44	0.53
9:C:49:TRP:O	9:C:52:ARG:NH1	2.35	0.53
12:F:712:SER:OG	12:F:715:GLU:OE1	2.27	0.53
16:N:661:PRO:HA	16:N:673:MET:HE3	1.91	0.53
1:2:511:ILE:O	1:2:515:VAL:HG22	2.09	0.52
1:2:741:ARG:HH21	1:2:744:ARG:HG3	1.74	0.52
2:3:417:GLN:N	2:3:420:ARG:HH21	2.07	0.52
3:4:569:ASP:O	3:4:677:PRO:HD3	2.09	0.52
3:4:646:HIS:NE2	3:4:698:LEU:HG	2.24	0.52
4:5:39:ARG:NH1	4:5:42:SER:H	2.07	0.52
5:6:528:LYS:HG3	5:6:531:ARG:HH21	1.74	0.52
6:7:645:ALA:HA	6:7:702:LEU:HA	1.90	0.52
7:A:65:ASP:O	7:A:66:LYS:C	2.51	0.52
8:B:30:ARG:NH1	8:B:85:CYS:O	2.41	0.52
10:D:6:ASP:HA	10:D:9:LEU:HD12	1.91	0.52
10:D:235:PRO:HD2	10:D:240:TRP:HD1	1.74	0.52
11:E:244:GLY:HA3	11:E:603:ASN:N	2.23	0.52
12:G:484:THR:OG1	12:G:493:TYR:N	2.37	0.52
12:G:498:GLU:HB3	12:G:746:ALA:HB2	1.91	0.52
12:G:584:THR:HG22	12:G:586:VAL:H	1.74	0.52
12:H:503:SER:OG	12:H:514:THR:OG1	2.21	0.52
12:H:577:ARG:O	12:H:593:SER:N	2.28	0.52
15:M:2007:PHE:HE2	15:M:2011:LEU:HD22	1.73	0.52
16:N:539:ILE:HA	16:N:638:THR:O	2.09	0.52
4:5:29:LYS:HA	4:5:32:LYS:HG2	1.91	0.52
4:5:544:THR:HB	4:5:651:ARG:HH12	1.73	0.52
4:5:605:TYR:HA	4:5:608:LEU:HD12	1.91	0.52
4:5:743:PHE:O	4:5:748:LEU:N	2.33	0.52
6:7:228:ARG:NH2	6:7:326:HIS:HB3	2.23	0.52
6:7:415:ALA:HB3	6:7:430:LYS:NZ	2.24	0.52
12:G:839:ASP:O	12:G:843:ASN:ND2	2.32	0.52
15:M:1418:PHE:CZ	15:M:1426:VAL:HA	2.44	0.52
15:M:1524:ASN:HA	15:M:1560:PHE:HE2	1.72	0.52
15:M:1673:ASP:OD1	15:M:1819:TRP:NE1	2.42	0.52
15:M:1882:SER:O	15:M:1886:MET:HG3	2.09	0.52
16:N:299:GLU:HG3	16:N:304:SER:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:N:508:ILE:HD11	16:N:513:THR:HG22	1.91	0.52
1:2:332:PRO:HG3	4:5:153:SER:HA	1.90	0.52
2:3:407:MET:HE2	2:3:415:LYS:HB2	1.90	0.52
3:4:349:CYS:SG	3:4:382:MET:HE1	2.50	0.52
4:5:479:ILE:HB	4:5:482:PHE:CE1	2.43	0.52
4:5:583:MET:SD	4:5:584:GLN:NE2	2.82	0.52
5:6:816:VAL:HG22	5:6:818:GLU:H	1.74	0.52
12:H:581:VAL:HG12	12:H:590:VAL:HG13	1.90	0.52
15:M:1360:LYS:HE2	15:M:1378:LYS:HA	1.91	0.52
15:M:1371:ILE:HG13	15:M:1406:VAL:HA	1.91	0.52
15:M:1820:VAL:HG11	15:M:1836:VAL:HG21	1.91	0.52
15:M:2151:ARG:HB3	16:N:494:MET:CE	2.38	0.52
16:N:328:VAL:HB	16:N:341:VAL:CG2	2.39	0.52
2:3:416:SER:HB2	18:3:1001:ADP:O2A	2.10	0.52
3:4:226:TYR:O	3:4:230:LEU:HG	2.10	0.52
3:4:332:VAL:HG13	3:4:429:ALA:HA	1.90	0.52
3:4:543:GLN:NE2	3:4:562:ILE:O	2.37	0.52
4:5:174:SER:HA	4:5:252:ASP:HA	1.91	0.52
5:6:510:SER:HA	5:6:513:ILE:HD12	1.92	0.52
5:6:529:LEU:HD22	5:6:754:TYR:CZ	2.43	0.52
6:7:311:GLN:HB2	6:7:340:VAL:HG23	1.91	0.52
6:7:593:ARG:NH1	6:7:593:ARG:O	2.41	0.52
6:7:723:SER:O	6:7:727:LEU:HG	2.09	0.52
11:E:466:LEU:HG	11:E:470:ARG:HE	1.74	0.52
12:F:539:LEU:HB2	12:F:559:HIS:CE1	2.44	0.52
15:M:1940:GLN:HG3	15:M:2121:LYS:O	2.09	0.52
1:2:678:ASP:OD1	1:2:679:ILE:N	2.43	0.52
2:3:553:ILE:HG21	4:5:652:GLN:CD	2.35	0.52
3:4:677:PRO:HB3	3:4:681:ARG:HH12	1.73	0.52
4:5:604:THR:O	4:5:607:ARG:HG3	2.08	0.52
4:5:653:LEU:O	4:5:657:ILE:HG12	2.09	0.52
5:6:186:ARG:HH21	5:6:187:ARG:HH12	1.58	0.52
5:6:396:LYS:NZ	5:6:461:SER:O	2.41	0.52
5:6:691:ARG:HH12	5:6:717:ASP:H	1.56	0.52
6:7:405:ILE:O	6:7:409:ASP:N	2.38	0.52
11:E:370:LEU:O	11:E:373:ALA:N	2.43	0.52
12:F:634:HIS:CE1	12:H:636:LEU:HB2	2.43	0.52
12:G:642:GLU:N	12:G:649:ARG:O	2.42	0.52
15:M:1353:ILE:HB	15:M:1434:HIS:HB2	1.90	0.52
15:M:1946:SER:HB3	15:M:1949:TYR:HD2	1.74	0.52
16:N:228:ARG:HH12	16:N:347:PRO:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:N:234:ASN:OD1	16:N:264:SER:HB2	2.10	0.52
1:2:671:GLU:O	1:2:674:LEU:HG	2.10	0.52
1:2:778:LEU:O	1:2:781:MET:HE3	2.10	0.52
2:3:557:ARG:O	2:3:561:ILE:HG12	2.10	0.52
3:4:447:ASN:HD21	3:4:449:ARG:CZ	2.22	0.52
4:5:68:LEU:HG	4:5:76:TYR:HB2	1.92	0.52
5:6:629:MET:HE2	5:6:629:MET:N	2.24	0.52
6:7:500:ASP:N	6:7:501:PRO:HD2	2.24	0.52
11:E:103:TYR:O	11:E:116:PHE:HA	2.09	0.52
11:E:244:GLY:H	11:E:602:LEU:HB3	1.75	0.52
11:E:331:HIS:CE1	11:E:419:ILE:HG13	2.44	0.52
12:F:535:ASP:H	12:F:548:GLN:HA	1.73	0.52
12:G:751:THR:HB	12:G:773:GLU:HG3	1.91	0.52
16:N:23:ARG:HA	16:N:27:ARG:HE	1.75	0.52
16:N:183:TYR:CD2	16:N:223:TYR:HB3	2.45	0.52
1:2:426:VAL:HG11	1:2:456:ILE:HD13	1.91	0.52
1:2:462:ASN:OD1	1:2:463:THR:N	2.43	0.52
1:2:759:PRO:O	1:2:763:LEU:N	2.38	0.52
3:4:261:LEU:HD12	3:4:265:PRO:HA	1.91	0.52
4:5:412:VAL:HA	4:5:552:MET:HG3	1.91	0.52
6:7:88:TYR:O	6:7:92:LYS:HG2	2.09	0.52
11:E:536:LEU:HD23	11:E:539:TYR:HD2	1.74	0.52
12:G:789:GLU:HG2	12:G:818:PRO:HD3	1.92	0.52
15:M:1477:LEU:HB2	15:M:1654:GLN:HG3	1.92	0.52
16:N:25:LEU:HG	16:N:63:LEU:HD13	1.91	0.52
16:N:178:GLN:NE2	16:N:179:GLN:O	2.43	0.52
16:N:269:THR:HG21	16:N:282:PHE:CD1	2.43	0.52
16:N:503:LEU:HB3	16:N:504:PRO:HD3	1.91	0.52
2:3:245:TYR:O	6:7:109:ASN:ND2	2.42	0.52
2:3:423:LEU:HD12	2:3:431:ALA:HB3	1.90	0.52
3:4:315:ARG:NH1	3:4:401:GLU:OE1	2.43	0.52
3:4:412:PRO:HD2	6:7:557:LEU:HD21	1.91	0.52
3:4:808:HIS:ND1	3:4:821:ASP:HA	2.25	0.52
4:5:296:GLY:HA3	4:5:330:ILE:HA	1.90	0.52
4:5:669:SER:HB3	4:5:670:PRO:HD2	1.92	0.52
6:7:77:SER:HB3	6:7:201:PHE:HD2	1.75	0.52
6:7:79:ILE:HG22	6:7:205:LYS:HZ2	1.75	0.52
12:G:707:LEU:HD13	12:G:718:TRP:CE2	2.45	0.52
15:M:2179:CYS:SG	15:M:2181:CYS:N	2.76	0.52
16:N:222:TYR:HE2	16:N:286:GLY:HA2	1.75	0.52
1:2:744:ARG:HE	1:2:747:ARG:HD3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:753:TYR:O	3:4:756:GLU:HG2	2.10	0.52
4:5:422:LYS:NZ	20:5:803:AGS:O2B	2.43	0.52
5:6:144:LYS:HB2	5:6:261:ARG:NH2	2.24	0.52
5:6:559:THR:HG23	5:6:561:GLU:N	2.25	0.52
6:7:545:THR:HA	6:7:556:THR:HG23	1.91	0.52
11:E:287:VAL:HG22	11:E:290:ARG:HH12	1.74	0.52
11:E:299:VAL:O	11:E:303:THR:HG23	2.09	0.52
11:E:382:HIS:HA	11:E:385:LYS:HB2	1.91	0.52
12:G:886:ALA:HA	12:G:889:LEU:HD12	1.92	0.52
12:H:555:GLN:HE22	12:H:565:ASN:HB3	1.74	0.52
12:H:741:HIS:CG	12:H:762:ILE:HA	2.44	0.52
15:M:1736:VAL:HG23	15:M:1899:ASP:H	1.74	0.52
15:M:1955:ASP:HA	15:M:1958:MET:HE2	1.92	0.52
15:M:2010:PRO:HA	15:M:2013:LYS:HG2	1.91	0.52
16:N:351:ARG:HE	16:N:655:GLY:HA3	1.75	0.52
16:N:433:ILE:HD13	16:N:482:ILE:HB	1.91	0.52
1:2:246:TYR:CE1	1:2:301:PRO:HD3	2.45	0.52
1:2:300:PHE:CG	1:2:301:PRO:HD2	2.45	0.52
1:2:397:VAL:HG21	1:2:403:PRO:HG3	1.92	0.52
1:2:548:ALA:CB	18:2:902:ADP:H2'	2.39	0.52
2:3:210:HIS:HA	6:7:7:SER:HA	1.92	0.52
2:3:254:GLN:HB3	2:3:256:ILE:HD11	1.92	0.52
2:3:282:LEU:HD21	2:3:325:THR:HA	1.91	0.52
2:3:722:ASN:OD1	2:3:723:LYS:N	2.43	0.52
3:4:567:CYS:SG	3:4:568:GLY:N	2.82	0.52
3:4:911:GLN:HG2	3:4:918:VAL:HG12	1.92	0.52
5:6:111:VAL:HA	5:6:114:ALA:HB3	1.92	0.52
5:6:154:ASP:OD1	5:6:155:TYR:N	2.43	0.52
5:6:774:VAL:O	5:6:778:LYS:HD3	2.10	0.52
6:7:291:GLN:C	6:7:293:GLN:H	2.18	0.52
11:E:328:LEU:HD22	11:E:331:HIS:HB2	1.92	0.52
15:M:1384:PRO:HB3	15:M:1784:SER:HB3	1.93	0.52
16:N:29:TYR:OH	16:N:64:GLU:OE1	2.27	0.52
16:N:280:GLN:OE1	16:N:280:GLN:N	2.43	0.52
1:2:392:GLU:HB2	1:2:403:PRO:HB3	1.90	0.51
1:2:410:LEU:HD13	1:2:415:VAL:HA	1.91	0.51
1:2:424:VAL:HG12	1:2:458:ARG:HA	1.92	0.51
1:2:810:LEU:HD12	1:2:813:ILE:HD12	1.92	0.51
2:3:542:ARG:HD2	2:3:700:ARG:HE	1.75	0.51
2:3:680:VAL:O	2:3:684:THR:HG23	2.10	0.51
3:4:396:VAL:HA	3:4:418:CYS:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:856:VAL:HG21	5:6:692:LYS:HZ2	1.74	0.51
4:5:695:ASP:OD2	4:5:710:GLU:HB3	2.10	0.51
5:6:364:ASN:HD22	5:6:394:ARG:HH22	1.58	0.51
5:6:635:ILE:HG12	5:6:677:SER:HB3	1.92	0.51
6:7:71:ALA:HB3	6:7:130:LYS:HE2	1.91	0.51
7:A:38:ARG:HB3	7:A:42:LYS:NZ	2.25	0.51
8:B:105:GLU:OE2	8:B:113:SER:N	2.43	0.51
11:E:363:PHE:HA	11:E:366:MET:HE2	1.93	0.51
12:F:588:VAL:HB	12:F:600:PHE:HB2	1.92	0.51
12:H:599:SER:HB2	12:H:608:ALA:H	1.74	0.51
12:H:853:GLU:OE1	12:H:853:GLU:N	2.37	0.51
15:M:1689:TRP:CH2	15:M:1691:GLU:HB2	2.45	0.51
15:M:1737:ASP:HB2	15:M:2132:ARG:HH21	1.75	0.51
16:N:266:MET:HG2	16:N:283:LEU:HB2	1.90	0.51
16:N:670:ALA:N	16:N:687:ILE:O	2.43	0.51
1:2:499:SER:OG	1:2:509:ARG:NH1	2.30	0.51
2:3:43:ARG:HD2	2:3:136:MET:SD	2.50	0.51
2:3:149:SER:HB3	2:3:247:TYR:HA	1.92	0.51
3:4:506:LEU:HD12	3:4:510:ARG:HH12	1.75	0.51
3:4:521:LEU:HD21	3:4:743:PRO:HD2	1.92	0.51
5:6:120:GLU:HB2	5:6:134:LYS:HZ1	1.75	0.51
5:6:132:VAL:HG13	5:6:135:VAL:HG12	1.91	0.51
8:B:51:GLN:HB2	10:D:129:MET:HE2	1.92	0.51
8:B:112:PHE:HB3	8:B:152:ARG:CZ	2.40	0.51
9:C:27:LEU:HD22	9:C:30:LEU:HD11	1.91	0.51
11:E:235:GLY:O	11:E:239:GLU:HG2	2.10	0.51
11:E:255:ILE:O	11:E:259:LEU:HG	2.10	0.51
12:F:541:GLU:OE1	12:F:541:GLU:N	2.43	0.51
12:G:899:VAL:HG22	12:G:914:ILE:HG22	1.91	0.51
16:N:34:LYS:H	16:N:76:GLY:HA3	1.75	0.51
16:N:493:SER:HA	16:N:496:SER:O	2.10	0.51
1:2:226:VAL:O	1:2:230:ARG:HG3	2.10	0.51
1:2:839:LYS:HE2	1:2:865:THR:HB	1.91	0.51
2:3:184:GLY:HA2	2:3:261:MET:CE	2.40	0.51
3:4:176:PRO:HD2	3:4:188:GLN:HG2	1.92	0.51
3:4:536:VAL:HG13	3:4:706:TYR:CD2	2.45	0.51
3:4:562:ILE:HG22	3:4:564:ILE:HG13	1.92	0.51
4:5:455:ARG:NE	4:5:460:ARG:HA	2.24	0.51
4:5:502:ILE:HG22	4:5:504:ILE:HD11	1.92	0.51
4:5:730:TYR:CE1	4:5:733:LEU:HD23	2.45	0.51
5:6:382:ARG:H	5:6:385:SER:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:581:LEU:HD23	6:7:581:LEU:H	1.74	0.51
6:7:658:ASP:HA	6:7:661:VAL:HG12	1.92	0.51
10:D:148:LEU:HA	10:D:151:ILE:HD12	1.92	0.51
1:2:824:ARG:HH22	1:2:829:VAL:HA	1.75	0.51
2:3:656:LEU:O	2:3:660:VAL:HG23	2.10	0.51
5:6:186:ARG:HD2	5:6:260:GLU:HG3	1.92	0.51
5:6:701:MET:SD	5:6:705:ILE:HG23	2.51	0.51
5:6:714:VAL:HG11	5:6:837:ARG:HG3	1.93	0.51
6:7:106:ILE:HG22	6:7:113:PHE:CG	2.45	0.51
6:7:697:GLN:O	6:7:701:LYS:HG2	2.09	0.51
10:D:80:PRO:HD2	10:D:84:MET:HE1	1.92	0.51
11:E:223:ARG:HH21	11:E:226:ARG:HB3	1.75	0.51
12:G:890:LYS:HA	12:G:921:ARG:HH22	1.76	0.51
12:H:600:PHE:HA	12:H:606:PRO:HA	1.91	0.51
16:N:173:ILE:HB	16:N:177:GLN:HB2	1.92	0.51
16:N:487:PRO:O	16:N:493:SER:OG	2.20	0.51
1:2:504:SER:HB2	5:6:563:ILE:HD12	1.91	0.51
1:2:790:TYR:O	1:2:793:LEU:HB2	2.11	0.51
3:4:381:SER:HG	5:6:441:ARG:HH21	1.52	0.51
3:4:418:CYS:SG	3:4:419:VAL:N	2.83	0.51
4:5:712:ARG:O	4:5:715:GLU:HG3	2.10	0.51
5:6:519:MET:HE1	5:6:754:TYR:CD2	2.46	0.51
5:6:591:PHE:HE1	5:6:748:ALA:HB1	1.74	0.51
6:7:235:LEU:O	6:7:355:PHE:HB3	2.11	0.51
6:7:459:MET:HE1	6:7:599:LEU:HD13	1.91	0.51
7:A:11:LEU:O	7:A:14:LYS:HG2	2.10	0.51
7:A:142:LYS:HZ1	7:A:152:SER:H	1.58	0.51
9:C:47:PRO:O	9:C:51:ALA:N	2.42	0.51
11:E:494:ARG:O	11:E:498:LEU:HG	2.10	0.51
1:2:740:ALA:O	1:2:744:ARG:HG2	2.10	0.51
2:3:108:ARG:HH21	2:3:112:SER:HB3	1.76	0.51
2:3:224:ARG:NH1	2:3:227:THR:OG1	2.37	0.51
2:3:274:ILE:HD11	2:3:320:LEU:HA	1.93	0.51
2:3:700:ARG:O	2:3:704:THR:HG23	2.10	0.51
4:5:177:THR:HG23	4:5:251:ILE:HG12	1.93	0.51
4:5:373:SER:HB2	4:5:599:MET:HE1	1.92	0.51
5:6:115:PHE:O	5:6:119:LEU:HG	2.11	0.51
5:6:118:PHE:CZ	5:6:158:LEU:HA	2.45	0.51
5:6:710:ASP:HB3	5:6:802:SER:HB2	1.93	0.51
5:6:732:VAL:HG22	5:6:738:ARG:HH22	1.75	0.51
6:7:203:TYR:OH	6:7:336:ASN:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:245:ILE:HG22	6:7:315:ILE:HB	1.92	0.51
6:7:281:LEU:HD21	6:7:298:LEU:HB2	1.93	0.51
10:D:190:TRP:HE3	10:D:191:LEU:HD22	1.75	0.51
12:F:615:ILE:HA	12:F:629:HIS:HA	1.93	0.51
12:F:838:THR:O	12:F:842:GLU:HG2	2.10	0.51
15:M:1345:LYS:O	15:M:1346:VAL:C	2.53	0.51
1:2:570:GLY:O	5:6:665:LYS:NZ	2.38	0.51
1:2:766:TYR:CE1	1:2:825:LEU:HD13	2.46	0.51
2:3:359:ILE:O	2:3:363:LEU:HG	2.11	0.51
2:3:378:LYS:HA	2:3:381:ILE:HG12	1.92	0.51
2:3:559:ARG:HH12	16:N:273:ASN:HA	1.76	0.51
2:3:578:GLU:OE2	4:5:613:ARG:NE	2.43	0.51
2:3:710:THR:HG22	2:3:714:LYS:HE2	1.92	0.51
3:4:292:ASP:O	3:4:296:ILE:HG12	2.11	0.51
3:4:456:LEU:HD22	6:7:252:LYS:HB3	1.93	0.51
5:6:107:THR:O	5:6:111:VAL:HG22	2.10	0.51
5:6:758:ALA:O	5:6:812:ARG:NE	2.44	0.51
9:C:82:THR:HA	9:C:85:MET:HE2	1.91	0.51
11:E:66:GLU:O	11:E:70:HIS:ND1	2.44	0.51
11:E:296:GLN:O	11:E:300:LYS:HG3	2.10	0.51
12:F:498:GLU:HB3	12:F:746:ALA:HB2	1.93	0.51
12:F:549:SER:HB3	12:F:577:ARG:HG3	1.93	0.51
12:F:715:GLU:OE1	12:F:715:GLU:N	2.44	0.51
15:M:1696:PRO:HB2	15:M:1698:HIS:NE2	2.26	0.51
15:M:2179:CYS:HB3	15:M:2183:GLY:O	2.11	0.51
16:N:268:ILE:HG12	16:N:285:LEU:HB2	1.92	0.51
1:2:746:GLN:HA	1:2:749:ARG:HD2	1.93	0.51
2:3:466:ASP:OD1	2:3:467:ARG:N	2.44	0.51
3:4:508:LYS:O	3:4:511:GLU:HG3	2.11	0.51
3:4:716:ASN:O	3:4:720:LEU:HG	2.10	0.51
4:5:66:GLU:OE1	4:5:66:GLU:N	2.43	0.51
6:7:119:ARG:O	6:7:123:ASN:N	2.28	0.51
6:7:460:GLY:HA3	6:7:600:MET:HE2	1.93	0.51
6:7:724:LYS:HZ1	6:7:728:TYR:HB2	1.76	0.51
10:D:253:LYS:NZ	10:D:255:CYS:HA	2.26	0.51
11:E:469:LEU:HD11	11:E:540:ARG:HH12	1.75	0.51
12:G:532:PHE:O	12:G:548:GLN:NE2	2.44	0.51
12:G:549:SER:OG	12:G:577:ARG:HG2	2.11	0.51
12:G:684:ILE:HA	12:G:699:GLY:HA2	1.92	0.51
12:G:705:LEU:HA	12:G:720:PRO:HA	1.93	0.51
12:G:782:VAL:HG22	12:H:571:PRO:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1499:PHE:CE2	15:M:1573:LEU:HD11	2.46	0.51
1:2:748:GLN:HB3	5:6:560:VAL:HG11	1.92	0.51
2:3:694:LYS:HG2	2:3:695:SER:H	1.76	0.51
3:4:248:LEU:HB3	3:4:258:TYR:HB2	1.93	0.51
3:4:347:PHE:CE2	3:4:384:LEU:HA	2.46	0.51
5:6:119:LEU:HD22	5:6:136:TYR:HD2	1.74	0.51
5:6:332:PHE:HB3	5:6:341:ARG:HE	1.75	0.51
7:A:20:TYR:HD1	7:A:27:VAL:HB	1.74	0.51
7:A:34:GLU:HG3	7:A:38:ARG:HE	1.76	0.51
8:B:153:GLN:O	8:B:157:LEU:HG	2.10	0.51
9:C:14:THR:O	9:C:48:LEU:N	2.38	0.51
10:D:202:MET:SD	10:D:203:PRO:HD2	2.50	0.51
11:E:368:ILE:HD12	11:E:369:PRO:HD2	1.93	0.51
12:F:819:VAL:HG13	12:F:868:ARG:NH2	2.25	0.51
12:H:543:GLY:HA2	12:H:559:HIS:N	2.25	0.51
12:H:710:TRP:CD1	12:H:710:TRP:H	2.28	0.51
15:M:1321:THR:HG23	15:M:1444:SER:HB2	1.91	0.51
1:2:178:ARG:NH2	1:2:201:PRO:O	2.44	0.51
1:2:245:ASN:C	1:2:247:ARG:H	2.19	0.51
1:2:330:VAL:HG12	1:2:386:GLN:HB2	1.92	0.51
1:2:500:SER:HA	1:2:756:SER:CA	2.40	0.51
1:2:609:PHE:O	1:2:612:MET:HG3	2.11	0.51
1:2:784:ASP:O	1:2:788:ARG:HG3	2.10	0.51
2:3:176:LEU:HA	2:3:298:PHE:HB3	1.92	0.51
2:3:195:LYS:HB2	2:3:251:ILE:HG13	1.92	0.51
2:3:258:VAL:O	2:3:273:SER:HA	2.11	0.51
2:3:299:LYS:HZ1	4:5:245:HIS:HB2	1.76	0.51
2:3:476:ASP:HA	2:3:535:LEU:HD21	1.93	0.51
3:4:178:ARG:HB2	3:4:187:ILE:HG12	1.92	0.51
5:6:404:VAL:HG21	5:6:453:SER:HB3	1.93	0.51
20:7:903:AGS:C8	20:7:903:AGS:H5'2	2.40	0.51
10:D:227:PHE:HA	10:D:278:ARG:HA	1.92	0.51
11:E:34:LEU:HD22	11:E:543:LEU:HD11	1.92	0.51
12:G:827:TYR:HB3	12:G:865:ALA:CB	2.39	0.51
12:H:584:THR:HG22	12:H:620:ALA:HB1	1.92	0.51
15:M:1689:TRP:CD1	15:M:1827:LEU:HG	2.45	0.51
3:4:636:LYS:HB3	3:4:642:ARG:HH21	1.76	0.50
3:4:799:GLU:OE1	3:4:803:ARG:NE	2.44	0.50
4:5:592:SER:O	4:5:594:ILE:HG12	2.10	0.50
5:6:559:THR:HG23	5:6:561:GLU:H	1.76	0.50
6:7:146:ARG:O	6:7:150:ASN:ND2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:191:VAL:HG12	11:E:55:GLN:HB3	1.93	0.50
11:E:410:VAL:HG22	11:E:420:SER:HA	1.93	0.50
12:F:891:GLN:OE1	12:F:894:ALA:N	2.44	0.50
12:G:485:PRO:HD2	12:G:763:TRP:HB3	1.93	0.50
12:G:586:VAL:HG23	12:G:622:ASN:OD1	2.12	0.50
12:G:621:GLN:OE1	12:G:624:ARG:NE	2.44	0.50
12:G:649:ARG:HE	12:G:650:TYR:H	1.58	0.50
16:N:300:ASP:OD1	16:N:303:GLY:N	2.36	0.50
16:N:459:LYS:HB2	16:N:512:PHE:CE1	2.46	0.50
1:2:812:SER:O	1:2:816:ILE:HG12	2.11	0.50
2:3:158:LYS:HD3	2:3:594:GLU:HB3	1.93	0.50
2:3:406:LEU:HA	2:3:514:ALA:HB3	1.93	0.50
4:5:391:LEU:HD11	4:5:410:ILE:O	2.11	0.50
4:5:428:PHE:O	4:5:432:VAL:HG23	2.12	0.50
4:5:497:MET:O	4:5:500:GLN:NE2	2.42	0.50
5:6:364:ASN:ND2	5:6:367:GLU:OE1	2.44	0.50
6:7:68:GLN:NE2	6:7:69:LYS:HD2	2.26	0.50
6:7:410:VAL:O	6:7:411:TYR:O	2.30	0.50
6:7:518:ASN:HD21	6:7:559:ALA:HB3	1.76	0.50
7:A:38:ARG:HA	7:A:41:LEU:HD12	1.92	0.50
10:D:147:ARG:NH2	10:D:174:LEU:O	2.44	0.50
11:E:311:LYS:NZ	11:E:315:THR:O	2.42	0.50
11:E:341:SER:HB3	11:E:344:VAL:HB	1.91	0.50
11:E:388:LEU:HB3	11:E:392:PHE:CZ	2.46	0.50
11:E:638:SER:OG	11:E:639:PRO:HD3	2.11	0.50
12:G:497:ASN:OD1	12:G:498:GLU:N	2.43	0.50
12:G:867:LEU:HD21	12:G:894:ALA:O	2.11	0.50
12:H:897:ALA:HA	12:H:900:LYS:HE2	1.93	0.50
13:I:41:DG:H2'	13:I:42:DT:H5'	1.92	0.50
15:M:1525:ALA:HA	15:M:1528:LEU:HB3	1.92	0.50
15:M:1718:PHE:CG	15:M:1863:ARG:HD2	2.47	0.50
15:M:2001:ASN:O	15:M:2004:SER:OG	2.29	0.50
15:M:2175:MET:HB2	16:N:299:GLU:HG2	1.93	0.50
1:2:478:GLU:O	1:2:482:ARG:HG3	2.11	0.50
2:3:235:ASP:HA	2:3:241:LEU:HD22	1.92	0.50
2:3:499:LYS:N	6:7:490:GLY:HA2	2.27	0.50
3:4:201:PHE:N	3:4:224:LEU:HD21	2.26	0.50
3:4:203:TYR:HB3	3:4:221:ASP:HA	1.92	0.50
3:4:370:ARG:NH2	3:4:379:PRO:HD3	2.26	0.50
5:6:298:SER:OG	5:6:299:GLU:N	2.44	0.50
5:6:313:MET:HE3	5:6:340:ASN:CG	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:228:ARG:HG3	6:7:323:PRO:HD3	1.93	0.50
6:7:260:TYR:O	6:7:268:GLU:HA	2.11	0.50
8:B:79:LEU:HB3	8:B:85:CYS:HB2	1.92	0.50
12:H:712:SER:HB2	12:H:715:GLU:HB2	1.93	0.50
15:M:1851:PHE:HB2	15:M:1858:ILE:HD11	1.92	0.50
1:2:302:THR:HB	1:2:304:TYR:CE2	2.47	0.50
1:2:323:VAL:HG13	1:2:423:GLU:HB2	1.93	0.50
2:3:286:THR:HG21	2:3:292:VAL:HG21	1.93	0.50
3:4:317:LEU:HD21	3:4:326:ILE:HG21	1.92	0.50
4:5:534:LYS:HB3	4:5:539:ASN:OD1	2.12	0.50
4:5:637:GLU:HA	4:5:640:SER:OG	2.12	0.50
4:5:678:ASP:O	4:5:682:ARG:HG2	2.12	0.50
4:5:771:TYR:CD1	15:M:2189:LEU:HB2	2.46	0.50
5:6:528:LYS:HG3	5:6:531:ARG:NH2	2.27	0.50
5:6:567:GLY:O	5:6:805:ARG:HG2	2.11	0.50
6:7:530:ASP:OD2	6:7:533:ASP:N	2.35	0.50
6:7:685:THR:O	6:7:688:THR:OG1	2.20	0.50
9:C:3:TYR:CE2	10:D:218:MET:HG3	2.46	0.50
9:C:23:ASP:OD1	9:C:23:ASP:N	2.44	0.50
9:C:139:ALA:HA	9:C:181:HIS:CD2	2.47	0.50
9:C:163:SER:O	9:C:167:LEU:HG	2.12	0.50
11:E:624:ASN:ND2	11:E:629:ILE:O	2.32	0.50
15:M:1695:LEU:HD12	16:N:498:GLY:H	1.76	0.50
15:M:1939:TRP:NE1	15:M:1957:MET:HE3	2.26	0.50
15:M:1940:GLN:NE2	15:M:1944:PHE:CE1	2.79	0.50
15:M:2103:VAL:HG11	15:M:2145:HIS:HB3	1.93	0.50
16:N:450:ARG:HH22	16:N:454:SER:HA	1.77	0.50
1:2:477:THR:HG22	1:2:480:GLU:H	1.76	0.50
1:2:747:ARG:O	1:2:750:LYS:HG3	2.11	0.50
2:3:184:GLY:HA2	2:3:261:MET:HE1	1.94	0.50
2:3:670:GLN:HE22	6:7:621:MET:HB3	1.76	0.50
3:4:197:PHE:HA	3:4:201:PHE:HB2	1.94	0.50
3:4:434:GLU:O	3:4:467:LYS:N	2.44	0.50
3:4:690:GLU:OE1	3:4:690:GLU:N	2.41	0.50
4:5:301:TYR:HD1	4:5:327:TYR:CE1	2.29	0.50
4:5:419:GLY:O	20:5:803:AGS:H8	2.11	0.50
4:5:668:LEU:HA	4:5:674:GLU:HB2	1.92	0.50
5:6:361:ILE:O	5:6:376:THR:HA	2.11	0.50
5:6:763:PRO:HA	5:6:817:ASP:C	2.37	0.50
7:A:65:ASP:HA	7:A:69:LYS:H	1.77	0.50
8:B:34:ARG:NE	8:B:62:ASN:HA	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C:22:TYR:CD1	9:C:71:PHE:HA	2.45	0.50
10:D:159:ARG:O	10:D:162:ASN:N	2.44	0.50
12:H:542:LYS:HD2	12:H:585:PRO:HB3	1.92	0.50
15:M:1717:GLU:HB3	15:M:2104:PRO:HB3	1.92	0.50
16:N:651:LEU:O	16:N:658:VAL:N	2.26	0.50
2:3:150:ARG:CZ	2:3:152:PRO:HA	2.42	0.50
2:3:246:GLY:C	2:3:248:SER:H	2.19	0.50
2:3:262:PRO:HB3	4:5:513:LEU:HD13	1.93	0.50
2:3:455:ARG:NH1	2:3:501:GLY:H	2.10	0.50
3:4:397:ILE:O	3:4:417:LEU:N	2.37	0.50
3:4:574:LYS:O	3:4:577:ILE:HG22	2.10	0.50
4:5:136:GLN:NE2	4:5:281:TYR:HB2	2.25	0.50
4:5:398:LYS:HB2	4:5:406:LEU:HB2	1.92	0.50
4:5:407:ARG:HE	4:5:500:GLN:HE21	1.59	0.50
4:5:717:GLU:O	4:5:721:ARG:NH1	2.43	0.50
5:6:646:ILE:HD12	5:6:649:GLN:HB2	1.94	0.50
8:B:193:ARG:NH2	10:D:223:ASP:OD2	2.45	0.50
11:E:345:ASN:O	11:E:349:SER:N	2.44	0.50
11:E:542:PRO:HB3	11:E:629:ILE:HD13	1.93	0.50
11:E:573:ASP:O	11:E:577:ASP:N	2.44	0.50
12:G:790:ASN:HB3	12:G:816:GLN:HB2	1.92	0.50
12:H:652:LYS:HE3	12:H:655:CYS:SG	2.52	0.50
15:M:1409:GLU:CD	15:M:1409:GLU:H	2.19	0.50
15:M:1483:ASP:HB3	15:M:1584:ARG:HH12	1.77	0.50
15:M:1653:SER:O	15:M:1657:ASN:N	2.37	0.50
1:2:180:GLU:OE2	1:2:205:ARG:NH1	2.44	0.50
2:3:208:ARG:O	6:7:7:SER:HB2	2.12	0.50
2:3:415:LYS:O	2:3:418:LEU:HB2	2.11	0.50
4:5:176:ALA:HA	4:5:250:PHE:CD1	2.47	0.50
4:5:775:VAL:HG21	15:M:2189:LEU:HD23	1.94	0.50
5:6:141:GLU:OE1	5:6:196:LEU:HB2	2.11	0.50
5:6:154:ASP:HB2	5:6:268:PHE:CE2	2.46	0.50
5:6:395:CYS:HA	5:6:461:SER:HA	1.92	0.50
5:6:758:ALA:HB1	5:6:812:ARG:HG3	1.93	0.50
6:7:414:LEU:HG	6:7:433:LEU:HD22	1.92	0.50
6:7:598:PHE:CD1	6:7:723:SER:HA	2.46	0.50
8:B:57:ASP:O	8:B:61:ASN:N	2.42	0.50
8:B:124:ARG:HD2	9:C:191:MET:HA	1.94	0.50
11:E:572:ILE:HB	11:E:579:TYR:CE1	2.47	0.50
12:G:585:PRO:HD2	12:G:622:ASN:HA	1.94	0.50
12:G:631:SER:HB3	12:G:634:HIS:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G:694:ASP:HB3	12:G:706:LEU:HD11	1.93	0.50
12:G:781:PHE:HB3	12:G:821:MET:SD	2.52	0.50
16:N:271:ILE:HG23	16:N:305:VAL:HG23	1.93	0.50
16:N:595:LYS:O	16:N:598:GLU:HG2	2.12	0.50
2:3:191:LEU:HB2	2:3:193:ARG:CZ	2.42	0.50
2:3:195:LYS:HB3	6:7:370:LEU:HD12	1.93	0.50
2:3:254:GLN:NE2	2:3:283:VAL:HG13	2.27	0.50
5:6:403:VAL:HA	5:6:452:ILE:HG12	1.94	0.50
6:7:244:ILE:O	6:7:316:GLN:N	2.42	0.50
6:7:703:ARG:NE	6:7:703:ARG:O	2.44	0.50
12:H:740:ILE:HG12	12:H:758:LYS:HE3	1.94	0.50
1:2:324:VAL:HG23	1:2:388:VAL:HB	1.94	0.50
1:2:433:ASN:O	1:2:448:ALA:N	2.45	0.50
1:2:446:VAL:HG23	5:6:302:PRO:HD2	1.94	0.50
2:3:95:ARG:HE	2:3:156:SER:HG	1.51	0.50
2:3:476:ASP:N	2:3:476:ASP:OD1	2.45	0.50
2:3:731:ASN:O	2:3:734:ARG:HG2	2.12	0.50
3:4:230:LEU:O	3:4:234:ARG:HG3	2.12	0.50
3:4:567:CYS:O	3:4:574:LYS:HE2	2.12	0.50
3:4:808:HIS:O	3:4:814:LYS:NZ	2.28	0.50
6:7:355:PHE:HA	6:7:376:LEU:HD13	1.94	0.50
7:A:139:THR:O	7:A:143:SER:N	2.40	0.50
7:A:169:LYS:HA	7:A:185:LYS:HE2	1.94	0.50
9:C:19:LYS:HB2	9:C:75:LEU:HD21	1.93	0.50
11:E:2:TYR:CE1	11:E:141:GLN:HA	2.47	0.50
11:E:3:TYR:N	11:E:144:ASP:OD2	2.24	0.50
11:E:12:TYR:CE1	11:E:48:LEU:HD21	2.46	0.50
11:E:33:CYS:N	11:E:61:ILE:O	2.39	0.50
12:F:715:GLU:HA	12:G:649:ARG:NH1	2.26	0.50
16:N:670:ALA:HB3	16:N:687:ILE:HB	1.94	0.50
1:2:189:VAL:HA	1:2:197:TRP:CD1	2.47	0.49
3:4:330:GLY:HA3	3:4:399:LEU:HD21	1.94	0.49
3:4:410:GLN:HE21	3:4:413:HIS:CE1	2.30	0.49
4:5:53:ASN:HB3	4:5:58:ASN:O	2.11	0.49
4:5:771:TYR:CD2	15:M:2160:GLN:HB3	2.40	0.49
5:6:341:ARG:HA	5:6:344:TRP:CZ2	2.47	0.49
5:6:726:GLU:HG2	5:6:727:LEU:N	2.27	0.49
6:7:575:ASN:HB2	6:7:583:ASN:HD21	1.77	0.49
8:B:62:ASN:C	8:B:67:ARG:HH21	2.20	0.49
10:D:240:TRP:HB3	10:D:246:LEU:HD13	1.93	0.49
11:E:114:GLN:HB3	11:E:116:PHE:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F:643:LEU:HG	12:F:648:LYS:HB2	1.93	0.49
12:G:642:GLU:N	12:G:642:GLU:OE1	2.45	0.49
12:H:536:LEU:HD22	12:H:581:VAL:HG22	1.94	0.49
12:H:751:THR:HG22	12:H:775:GLU:HA	1.93	0.49
15:M:1322:TRP:HE1	15:M:1325:LEU:HB2	1.77	0.49
15:M:1362:LYS:HB3	15:M:1376:ILE:HD13	1.93	0.49
16:N:43:GLU:O	16:N:47:THR:HG23	2.11	0.49
16:N:425:ASN:CG	16:N:472:PHE:HB3	2.36	0.49
2:3:102:ASP:O	2:3:103:LEU:HG	2.12	0.49
3:4:809:ALA:HA	3:4:814:LYS:HE2	1.94	0.49
4:5:355:GLU:O	4:5:362:ARG:NH2	2.44	0.49
4:5:469:MET:HE3	4:5:493:ILE:HD12	1.93	0.49
5:6:306:LYS:HB3	5:6:320:ASN:HA	1.93	0.49
5:6:747:SER:O	5:6:751:LEU:N	2.45	0.49
6:7:144:ASN:OD1	6:7:145:GLN:N	2.45	0.49
6:7:380:PHE:CE2	6:7:382:ARG:HB2	2.47	0.49
8:B:173:LEU:HD23	8:B:178:ILE:HG22	1.93	0.49
11:E:529:VAL:HB	11:E:531:GLN:HE22	1.76	0.49
12:G:652:LYS:HD2	12:G:655:CYS:SG	2.52	0.49
12:G:827:TYR:HB2	12:G:862:TYR:CD1	2.47	0.49
15:M:1944:PHE:CD1	15:M:2040:LEU:HG	2.47	0.49
16:N:274:LEU:HD11	16:N:284:LEU:HD21	1.93	0.49
1:2:309:LEU:HD13	1:2:430:TYR:HE1	1.77	0.49
3:4:361:ASP:HB3	3:4:362:ARG:NH2	2.27	0.49
3:4:605:ILE:HA	3:4:616:LEU:HA	1.95	0.49
5:6:273:VAL:HA	5:6:289:SER:HB3	1.94	0.49
5:6:368:ILE:HG21	5:6:372:SER:HB3	1.92	0.49
11:E:382:HIS:O	11:E:386:ARG:HG2	2.13	0.49
11:E:612:ILE:HG21	11:E:640:PHE:CE2	2.48	0.49
12:F:611:LYS:HB2	12:H:720:PRO:HG3	1.93	0.49
12:H:626:PHE:CZ	12:H:638:TYR:HB2	2.47	0.49
12:H:827:TYR:HB2	12:H:865:ALA:HB1	1.94	0.49
12:H:865:ALA:O	12:H:869:LEU:HG	2.12	0.49
15:M:2014:ARG:NE	15:M:2018:LEU:HG	2.27	0.49
15:M:2151:ARG:HG3	15:M:2155:GLU:OE1	2.13	0.49
1:2:708:PRO:O	1:2:741:ARG:NH1	2.28	0.49
2:3:253:HIS:CD2	2:3:277:ILE:HG23	2.46	0.49
3:4:552:PHE:CD2	5:6:739:ASP:HB3	2.47	0.49
3:4:647:GLU:OE2	3:4:655:SER:N	2.43	0.49
3:4:826:VAL:O	3:4:830:ARG:HD3	2.13	0.49
4:5:47:ARG:HA	4:5:50:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:358:LEU:O	4:5:362:ARG:N	2.38	0.49
4:5:391:LEU:HD22	4:5:412:VAL:HG23	1.95	0.49
4:5:473:ASP:OD1	4:5:516:ARG:NE	2.41	0.49
4:5:663:LEU:HB2	4:5:674:GLU:OE2	2.13	0.49
5:6:499:ARG:HG2	5:6:759:ARG:HB2	1.93	0.49
5:6:549:LEU:O	5:6:553:GLY:N	2.26	0.49
5:6:780:LEU:HD21	5:6:831:LEU:HD13	1.94	0.49
6:7:586:LEU:HD23	6:7:591:LEU:HD23	1.93	0.49
6:7:634:GLU:HB3	6:7:637:LYS:HD3	1.94	0.49
7:A:34:GLU:HG3	7:A:38:ARG:NE	2.27	0.49
7:A:148:ASP:OD1	7:A:148:ASP:N	2.44	0.49
10:D:199:LEU:HB3	10:D:207:GLN:HG2	1.94	0.49
11:E:12:TYR:HE1	11:E:48:LEU:HD21	1.77	0.49
11:E:472:ARG:O	11:E:475:SER:OG	2.29	0.49
11:E:493:ASN:HB2	11:E:494:ARG:NH1	2.28	0.49
11:E:493:ASN:HA	11:E:496:ILE:HD12	1.93	0.49
11:E:578:THR:HG21	11:E:633:ARG:HE	1.78	0.49
12:F:782:VAL:HG12	12:F:785:LYS:H	1.76	0.49
12:G:482:ALA:HB1	12:G:496:MET:HB2	1.94	0.49
12:H:895:LEU:HD22	12:H:921:ARG:HG3	1.93	0.49
15:M:1342:ILE:C	15:M:1344:GLY:N	2.67	0.49
16:N:62:PHE:CE1	16:N:85:LYS:HG2	2.47	0.49
1:2:401:ARG:HH11	5:6:390:LYS:HZ2	1.60	0.49
1:2:458:ARG:HD2	1:2:472:ASP:H	1.77	0.49
2:3:490:MET:O	2:3:493:GLN:NE2	2.46	0.49
2:3:499:LYS:N	6:7:489:SER:O	2.45	0.49
4:5:407:ARG:NH1	4:5:409:ASP:O	2.45	0.49
4:5:450:THR:HB	4:5:502:ILE:HD13	1.95	0.49
4:5:720:ARG:HD2	4:5:721:ARG:HG3	1.94	0.49
5:6:596:VAL:O	5:6:637:CYS:HB2	2.12	0.49
5:6:606:ALA:HB1	5:6:624:GLU:HG2	1.94	0.49
5:6:659:GLN:C	5:6:674:ALA:HB3	2.36	0.49
6:7:144:ASN:HA	6:7:147:ARG:NH2	2.27	0.49
7:A:125:HIS:O	7:A:128:GLN:N	2.46	0.49
12:H:473:LYS:O	12:H:475:ARG:NH2	2.46	0.49
15:M:2015:VAL:HG11	15:M:2079:LEU:HG	1.94	0.49
2:3:363:LEU:O	2:3:366:SER:OG	2.30	0.49
3:4:400:GLN:NE2	3:4:412:PRO:HB2	2.28	0.49
3:4:512:VAL:HA	3:4:515:ARG:HE	1.78	0.49
4:5:279:ASP:O	4:5:283:THR:HG23	2.12	0.49
4:5:438:TYR:HD1	4:5:478:CYS:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:400:VAL:HG12	5:6:455:LEU:HD22	1.95	0.49
6:7:232:GLY:HA2	6:7:235:LEU:HD13	1.95	0.49
6:7:412:ASN:CA	6:7:430:LYS:NZ	2.63	0.49
7:A:166:ARG:NH1	11:E:478:TRP:HB3	2.28	0.49
8:B:11:PHE:HA	10:D:71:ARG:HH12	1.77	0.49
11:E:542:PRO:O	11:E:546:LEU:HG	2.13	0.49
12:F:582:ALA:HB3	12:F:589:ILE:HB	1.95	0.49
12:H:900:LYS:C	12:H:904:ARG:HE	2.20	0.49
15:M:2176:SER:OG	15:M:2185:TRP:NE1	2.46	0.49
16:N:331:ILE:O	16:N:340:HIS:N	2.46	0.49
16:N:459:LYS:HZ3	16:N:514:LYS:HE3	1.77	0.49
1:2:182:THR:HG23	1:2:185:SER:H	1.76	0.49
1:2:481:GLU:O	1:2:485:ARG:HG3	2.13	0.49
4:5:574:ASN:HB3	4:5:584:GLN:NE2	2.27	0.49
4:5:651:ARG:O	4:5:654:GLU:HG3	2.12	0.49
4:5:772:ARG:HD3	16:N:211:ILE:HB	1.95	0.49
5:6:111:VAL:HG23	5:6:180:PHE:HE1	1.78	0.49
10:D:164:ASP:O	10:D:167:SER:OG	2.26	0.49
11:E:37:ASP:OD1	11:E:252:SER:N	2.44	0.49
12:F:726:MET:HE2	12:F:786:LEU:HD12	1.95	0.49
12:G:728:ILE:HA	12:G:731:MET:SD	2.52	0.49
12:H:474:PHE:CZ	12:H:681:PRO:HB2	2.47	0.49
1:2:348:LEU:H	1:2:376:ASN:ND2	2.11	0.49
1:2:599:ALA:HB1	1:2:604:CYS:HB2	1.94	0.49
2:3:95:ARG:HH21	2:3:325:THR:HB	1.78	0.49
2:3:215:THR:N	2:3:224:ARG:HH21	2.10	0.49
3:4:563:ASN:OD1	3:4:803:ARG:NH1	2.46	0.49
4:5:97:VAL:O	4:5:101:ILE:HG12	2.13	0.49
5:6:309:PHE:H	5:6:318:VAL:HG22	1.78	0.49
5:6:689:TYR:CD1	5:6:715:ILE:HG23	2.48	0.49
6:7:143:LEU:HD12	6:7:192:PHE:CE2	2.48	0.49
6:7:206:PRO:HG3	6:7:352:THR:HG21	1.94	0.49
8:B:21:GLU:HB2	10:D:135:ARG:HH22	1.76	0.49
9:C:101:ASN:OD1	9:C:102:SER:N	2.45	0.49
10:D:79:TYR:CE2	10:D:176:SER:HB3	2.47	0.49
10:D:84:MET:HA	10:D:87:LEU:HD12	1.94	0.49
12:F:585:PRO:HD2	12:F:622:ASN:O	2.12	0.49
12:F:827:TYR:CD1	12:F:869:LEU:HD11	2.48	0.49
12:G:715:GLU:HA	12:H:649:ARG:NH1	2.28	0.49
13:I:43:DG:O6	14:J:18:DA:N6	2.45	0.49
15:M:1531:ILE:HA	15:M:1534:GLN:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:2011:LEU:O	15:M:2015:VAL:HG23	2.13	0.49
15:M:2076:ARG:O	15:M:2080:LEU:HG	2.13	0.49
16:N:459:LYS:HD3	16:N:512:PHE:HA	1.94	0.49
16:N:603:VAL:HG13	16:N:658:VAL:HG21	1.95	0.49
1:2:194:TYR:O	1:2:198:ILE:HG12	2.13	0.49
1:2:214:PHE:O	1:2:218:TYR:HB3	2.13	0.49
1:2:338:LYS:HG2	1:2:350:PRO:HA	1.95	0.49
2:3:438:SER:H	4:5:506:LYS:HA	1.77	0.49
3:4:509:ILE:HD11	3:4:753:TYR:HD2	1.77	0.49
3:4:530:ILE:HB	3:4:537:LYS:HZ3	1.78	0.49
4:5:48:ASP:O	4:5:51:ARG:HG3	2.13	0.49
5:6:167:ALA:O	5:6:170:ILE:HG22	2.13	0.49
5:6:542:ALA:HA	5:6:545:LYS:HG2	1.95	0.49
6:7:245:ILE:HG13	6:7:345:PRO:HA	1.95	0.49
6:7:671:SER:HB3	6:7:683:GLN:HA	1.95	0.49
7:A:29:LEU:N	7:A:117:GLN:HB2	2.27	0.49
9:C:17:PRO:HA	9:C:45:SER:HA	1.95	0.49
11:E:3:TYR:HB2	11:E:143:PHE:HA	1.94	0.49
11:E:271:TRP:CZ2	11:E:275:LEU:HD21	2.48	0.49
12:H:863:ASP:O	12:H:867:LEU:HG	2.12	0.49
12:H:878:ASN:OD1	12:H:881:LYS:HG2	2.12	0.49
15:M:1417:ILE:O	15:M:1418:PHE:HD1	1.96	0.49
15:M:1509:ILE:HG23	15:M:1511:ILE:HG23	1.94	0.49
15:M:1838:ASN:HB3	15:M:1842:LYS:NZ	2.27	0.49
15:M:2165:SER:O	15:M:2168:HIS:NE2	2.46	0.49
15:M:2196:GLN:O	15:M:2200:VAL:HG23	2.13	0.49
16:N:308:ASP:OD2	16:N:311:GLN:NE2	2.46	0.49
1:2:339:PHE:HE2	1:2:360:ARG:H	1.60	0.49
1:2:408:VAL:HA	1:2:451:ILE:O	2.13	0.49
1:2:479:GLU:HA	1:2:482:ARG:NE	2.27	0.49
1:2:767:ILE:HG22	1:2:771:ARG:NE	2.28	0.49
2:3:583:ARG:O	2:3:584:GLU:C	2.55	0.49
4:5:482:PHE:HB3	4:5:542:PHE:CZ	2.47	0.49
4:5:497:MET:HG2	4:5:550:PHE:CE1	2.48	0.49
5:6:285:GLY:N	5:6:401:GLU:O	2.45	0.49
6:7:413:ARG:HA	6:7:416:LYS:NZ	2.28	0.49
7:A:153:GLY:HA3	10:D:141:ARG:HD2	1.94	0.49
11:E:64:TYR:N	11:E:623:ASP:OD1	2.46	0.49
11:E:433:GLU:O	11:E:541:ASN:ND2	2.45	0.49
12:H:535:ASP:H	12:H:548:GLN:HA	1.78	0.49
15:M:1574:SER:O	15:M:1578:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1954:GLU:O	15:M:1957:MET:HG3	2.13	0.49
1:2:832:TYR:HD2	1:2:836:ARG:HH22	1.61	0.48
2:3:130:THR:HG21	2:3:150:ARG:HH22	1.78	0.48
3:4:666:ASN:HD21	3:4:668:ARG:NE	2.08	0.48
3:4:722:LYS:O	3:4:725:THR:OG1	2.18	0.48
4:5:648:ILE:HG23	4:5:693:SER:HB2	1.94	0.48
5:6:293:THR:HB	5:6:362:GLN:O	2.13	0.48
5:6:828:TYR:C	5:6:832:ARG:HE	2.20	0.48
6:7:441:ASP:O	6:7:451:ARG:NH1	2.46	0.48
6:7:459:MET:O	6:7:568:ASN:HA	2.13	0.48
9:C:97:LEU:N	9:C:168:LYS:O	2.44	0.48
11:E:68:ARG:NE	11:E:96:LEU:HD23	2.27	0.48
11:E:223:ARG:NH2	11:E:225:GLN:OE1	2.45	0.48
11:E:327:PHE:CE1	11:E:340:TYR:HB2	2.48	0.48
11:E:392:PHE:HB2	11:E:405:ILE:HD11	1.95	0.48
11:E:431:LEU:HD23	11:E:480:SER:HA	1.94	0.48
11:E:638:SER:O	11:E:642:GLU:HG2	2.13	0.48
12:F:480:SER:OG	12:F:494:LEU:O	2.22	0.48
12:G:516:SER:HA	12:G:525:GLU:HG2	1.95	0.48
12:G:582:ALA:HB2	12:G:618:LEU:HG	1.94	0.48
12:H:676:TYR:OH	12:H:685:LYS:HA	2.13	0.48
15:M:2070:LEU:O	15:M:2074:THR:HG23	2.14	0.48
16:N:306:GLU:HG3	16:N:338:LYS:HA	1.94	0.48
1:2:307:ARG:O	1:2:310:ARG:NH1	2.42	0.48
2:3:172:THR:H	2:3:175:HIS:CE1	2.31	0.48
2:3:202:TYR:O	2:3:242:THR:OG1	2.20	0.48
2:3:203:ALA:HB3	2:3:206:THR:HG23	1.96	0.48
3:4:753:TYR:HB3	3:4:757:HIS:CE1	2.48	0.48
4:5:165:ILE:HG13	4:5:290:THR:C	2.37	0.48
4:5:182:MET:SD	4:5:187:ARG:HA	2.53	0.48
4:5:400:LEU:HD12	4:5:404:MET:HB2	1.94	0.48
4:5:552:MET:HE1	4:5:658:ARG:HG3	1.95	0.48
4:5:555:ILE:HG13	4:5:688:THR:HG23	1.95	0.48
6:7:473:ILE:HA	6:7:476:ILE:HG12	1.95	0.48
6:7:656:VAL:HG13	6:7:713:VAL:HG21	1.95	0.48
8:B:177:GLU:HA	8:B:180:GLU:HG2	1.95	0.48
12:F:607:PHE:O	12:H:831:LYS:NZ	2.45	0.48
15:M:1912:MET:SD	15:M:2064:LEU:HD11	2.54	0.48
16:N:89:GLN:NE2	16:N:90:GLU:OE2	2.44	0.48
1:2:662:PRO:HB2	1:2:665:GLN:HG3	1.94	0.48
2:3:344:ASP:HA	2:3:347:ILE:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:510:ARG:O	3:4:514:ALA:N	2.37	0.48
5:6:115:PHE:HA	5:6:118:PHE:CD1	2.49	0.48
5:6:764:ILE:HG22	5:6:817:ASP:O	2.13	0.48
6:7:323:PRO:HB2	6:7:326:HIS:ND1	2.28	0.48
7:A:83:LYS:O	7:A:87:LEU:HG	2.13	0.48
7:A:166:ARG:HH21	7:A:188:GLN:HE21	1.61	0.48
10:D:154:PHE:CE2	10:D:222:PRO:HG3	2.47	0.48
11:E:2:TYR:OH	11:E:138:GLN:O	2.31	0.48
12:G:819:VAL:HG13	12:G:868:ARG:HE	1.77	0.48
12:H:492:ARG:NH1	12:H:494:LEU:HD23	2.27	0.48
12:H:782:VAL:O	12:H:786:LEU:HG	2.13	0.48
15:M:1671:ILE:HA	15:M:1674:VAL:HG12	1.95	0.48
15:M:2221:THR:HA	16:N:204:ILE:HB	1.94	0.48
16:N:398:LYS:HG2	16:N:400:VAL:HG23	1.95	0.48
16:N:425:ASN:OD1	16:N:475:LEU:N	2.44	0.48
1:2:423:GLU:HG2	1:2:459:ARG:HG2	1.96	0.48
2:3:123:PRO:HG3	2:3:221:LEU:HD12	1.95	0.48
2:3:128:ALA:HA	2:3:131:ASP:OD2	2.13	0.48
4:5:23:ASP:O	4:5:27:ILE:HG12	2.12	0.48
5:6:114:ALA:HA	5:6:117:GLN:CD	2.37	0.48
6:7:254:ALA:N	6:7:308:SER:O	2.46	0.48
6:7:365:ALA:HA	6:7:369:GLY:O	2.13	0.48
6:7:580:PRO:HG2	6:7:681:PHE:CD2	2.48	0.48
6:7:612:LEU:O	6:7:616:VAL:HG23	2.13	0.48
10:D:157:TYR:CE2	10:D:161:LEU:HD11	2.48	0.48
10:D:176:SER:N	10:D:179:GLU:OE1	2.31	0.48
11:E:159:TYR:O	11:E:163:LEU:HG	2.13	0.48
12:F:510:GLN:NE2	12:F:529:GLU:OE1	2.33	0.48
12:F:588:VAL:N	12:F:600:PHE:O	2.40	0.48
12:F:880:GLU:OE1	12:F:880:GLU:N	2.33	0.48
12:G:474:PHE:HB3	12:G:476:TYR:CE2	2.49	0.48
12:G:649:ARG:NE	12:G:650:TYR:H	2.12	0.48
12:H:688:PHE:O	12:H:696:CYS:N	2.43	0.48
15:M:1858:ILE:HA	15:M:1868:ILE:HG13	1.95	0.48
16:N:44:PHE:O	16:N:47:THR:OG1	2.23	0.48
1:2:269:LYS:O	1:2:273:LEU:HG	2.12	0.48
1:2:287:ALA:C	1:2:289:ILE:H	2.22	0.48
1:2:317:LEU:HA	1:2:429:ILE:HA	1.95	0.48
1:2:434:TYR:HB2	1:2:447:PHE:CE1	2.49	0.48
1:2:793:LEU:HD13	1:2:805:ILE:HG21	1.94	0.48
1:2:849:GLN:O	1:2:854:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:299:LYS:NZ	4:5:245:HIS:HB2	2.28	0.48
2:3:324:ASN:OD1	2:3:325:THR:N	2.45	0.48
3:4:365:ILE:HA	5:6:437:VAL:O	2.14	0.48
3:4:844:LYS:HG3	3:4:845:ILE:H	1.78	0.48
4:5:181:ILE:HD12	4:5:241:TYR:HB3	1.94	0.48
4:5:411:ASN:HB2	4:5:550:PHE:HD1	1.78	0.48
4:5:483:ASP:N	4:5:483:ASP:OD1	2.45	0.48
4:5:751:ALA:O	4:5:755:LEU:HG	2.13	0.48
5:6:132:VAL:C	5:6:134:LYS:H	2.21	0.48
5:6:297:THR:HG21	5:6:391:PRO:HA	1.95	0.48
6:7:19:ASN:OD1	6:7:20:GLU:N	2.46	0.48
6:7:647:THR:O	6:7:648:LYS:HG2	2.13	0.48
11:E:130:ASN:HB3	11:E:132:ASP:OD1	2.13	0.48
12:G:695:PRO:HD2	12:G:707:LEU:HB3	1.95	0.48
15:M:1477:LEU:HB3	15:M:1650:ILE:HG23	1.95	0.48
15:M:2031:TYR:HB3	15:M:2035:TYR:CE2	2.48	0.48
1:2:279:THR:HG23	1:2:286:TYR:CD2	2.48	0.48
1:2:426:VAL:HG12	1:2:457:LYS:H	1.79	0.48
1:2:744:ARG:NH2	1:2:747:ARG:HH11	2.08	0.48
1:2:853:VAL:O	1:2:857:LEU:HG	2.14	0.48
2:3:48:TYR:HA	2:3:51:ASN:HD21	1.77	0.48
2:3:667:VAL:HG22	2:3:669:PRO:HD3	1.96	0.48
3:4:229:GLN:O	3:4:233:MET:HG3	2.13	0.48
3:4:444:ILE:CG2	3:4:458:LYS:HB2	2.42	0.48
3:4:539:GLY:HA3	3:4:706:TYR:OH	2.12	0.48
4:5:391:LEU:HB2	4:5:665:LYS:HE2	1.96	0.48
4:5:473:ASP:HB2	4:5:515:SER:HA	1.96	0.48
5:6:137:ARG:C	5:6:139:GLN:H	2.22	0.48
5:6:318:VAL:CG1	5:6:334:PRO:HG3	2.44	0.48
5:6:404:VAL:H	5:6:452:ILE:HA	1.79	0.48
5:6:744:PRO:C	5:6:746:PHE:H	2.21	0.48
11:E:328:LEU:O	11:E:332:SER:N	2.45	0.48
12:F:727:GLU:HG3	12:F:730:LYS:HZ2	1.79	0.48
12:G:629:HIS:N	12:G:637:SER:O	2.31	0.48
12:H:672:ALA:HB2	12:H:760:LYS:HE2	1.96	0.48
15:M:1528:LEU:HD12	15:M:1628:GLN:HG3	1.96	0.48
15:M:1882:SER:HA	15:M:1885:MET:HG2	1.95	0.48
1:2:244:VAL:HG22	1:2:297:ILE:HA	1.95	0.48
2:3:573:PRO:HB2	2:3:576:TYR:HE2	1.79	0.48
3:4:242:ASN:HA	3:4:304:ARG:HB2	1.95	0.48
3:4:314:MET:HG2	3:4:401:GLU:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:734:LEU:O	5:6:739:ASP:HA	2.14	0.48
5:6:773:LEU:HD13	5:6:824:ILE:HG23	1.95	0.48
9:C:96:ASP:CG	9:C:168:LYS:HA	2.39	0.48
9:C:182:GLU:HA	9:C:185:LYS:HE2	1.95	0.48
10:D:154:PHE:O	10:D:158:LEU:HG	2.14	0.48
11:E:160:TYR:HA	11:E:163:LEU:HD12	1.95	0.48
11:E:358:ARG:HA	11:E:361:LYS:HE2	1.96	0.48
12:G:560:ASP:OD1	12:G:560:ASP:N	2.46	0.48
12:G:709:LYS:HD2	12:G:715:GLU:HB3	1.95	0.48
12:H:534:TYR:HA	12:H:548:GLN:HB2	1.96	0.48
12:H:624:ARG:HA	12:H:643:LEU:H	1.78	0.48
15:M:1532:TYR:CE1	15:M:1635:LEU:HB3	2.49	0.48
15:M:1893:PRO:HB2	15:M:1895:PHE:HD2	1.79	0.48
16:N:320:TYR:OH	16:N:346:LEU:N	2.46	0.48
1:2:240:GLU:HG3	1:2:293:ILE:HD13	1.95	0.48
1:2:618:THR:HA	1:2:621:HIS:ND1	2.29	0.48
2:3:201:HIS:CE1	2:3:212:ARG:H	2.27	0.48
3:4:316:GLU:OE1	3:4:316:GLU:N	2.35	0.48
4:5:141:SER:HB3	4:5:161:ARG:HD2	1.96	0.48
5:6:120:GLU:HB2	5:6:134:LYS:NZ	2.28	0.48
5:6:650:VAL:HA	5:6:653:HIS:CG	2.49	0.48
7:A:58:GLN:O	7:A:59:GLN:C	2.57	0.48
8:B:112:PHE:CE2	8:B:173:LEU:HD13	2.49	0.48
9:C:5:ASP:OD2	9:C:8:ASP:N	2.45	0.48
9:C:7:ASP:OD1	9:C:103:HIS:ND1	2.47	0.48
9:C:85:MET:HA	9:C:88:ILE:HD12	1.94	0.48
10:D:80:PRO:HB3	10:D:83:LEU:HD13	1.96	0.48
11:E:103:TYR:O	11:E:105:ILE:HD12	2.13	0.48
12:F:827:TYR:HB3	12:F:865:ALA:HB1	1.95	0.48
12:G:831:LYS:HE2	12:G:831:LYS:HA	1.94	0.48
12:G:895:LEU:HB3	12:G:918:ARG:HD3	1.96	0.48
15:M:2021:ASN:HB3	15:M:2025:PHE:CE2	2.49	0.48
1:2:306:LEU:HD13	1:2:392:GLU:HG3	1.94	0.48
1:2:527:VAL:HB	1:2:531:HIS:HB3	1.94	0.48
3:4:265:PRO:HG3	3:4:325:LEU:N	2.29	0.48
3:4:363:GLY:HA2	5:6:436:GLY:H	1.79	0.48
3:4:367:GLU:HA	5:6:439:GLY:HA2	1.95	0.48
4:5:83:PRO:O	4:5:87:ILE:HG12	2.14	0.48
4:5:417:ASP:HA	4:5:529:ARG:HA	1.94	0.48
5:6:120:GLU:C	5:6:132:VAL:HB	2.39	0.48
6:7:400:ARG:HH11	6:7:404:LEU:HD12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:B:63:MET:HG3	8:B:69:THR:HG21	1.95	0.48
8:B:124:ARG:NE	9:C:191:MET:HA	2.29	0.48
9:C:142:LEU:HD21	9:C:184:TYR:HB3	1.94	0.48
12:F:544:THR:HB	12:F:559:HIS:CE1	2.49	0.48
15:M:1910:ILE:O	15:M:1917:PHE:HA	2.13	0.48
15:M:2073:ARG:HD2	15:M:2088:PHE:HE1	1.78	0.48
1:2:306:LEU:HB3	1:2:404:ARG:HB2	1.95	0.48
1:2:411:LEU:O	1:2:415:VAL:HG13	2.14	0.48
1:2:745:LEU:O	1:2:748:GLN:HG3	2.14	0.48
1:2:767:ILE:O	1:2:771:ARG:NE	2.39	0.48
2:3:197:ILE:O	2:3:214:TYR:N	2.29	0.48
2:3:372:TYR:CE1	2:3:560:SER:HB3	2.49	0.48
3:4:206:ARG:NH2	3:4:244:ASP:OD2	2.47	0.48
3:4:258:TYR:HE1	3:4:308:VAL:HG23	1.79	0.48
3:4:449:ARG:CZ	13:I:45:DG:H2''	2.44	0.48
3:4:809:ALA:HB2	3:4:817:VAL:HA	1.95	0.48
4:5:451:ALA:HA	4:5:467:GLY:N	2.28	0.48
5:6:120:GLU:O	5:6:132:VAL:HB	2.14	0.48
6:7:79:ILE:HG12	6:7:203:TYR:HB2	1.95	0.48
6:7:252:LYS:O	6:7:310:PHE:N	2.46	0.48
6:7:575:ASN:HB2	6:7:583:ASN:ND2	2.29	0.48
7:A:51:THR:HA	7:A:54:LEU:HD12	1.95	0.48
8:B:156:VAL:O	8:B:160:LEU:HG	2.14	0.48
9:C:127:LEU:O	9:C:131:ARG:HG2	2.13	0.48
9:C:186:ASP:HA	9:C:189:ARG:NE	2.29	0.48
11:E:233:TYR:O	11:E:237:LEU:HG	2.14	0.48
11:E:325:TYR:HB2	11:E:406:ARG:HH12	1.79	0.48
12:H:540:ASN:ND2	12:H:583:ALA:O	2.47	0.48
12:H:626:PHE:CZ	12:H:628:VAL:HB	2.49	0.48
13:I:42:DT:H4'	13:I:43:DG:OP1	2.12	0.48
15:M:1719:PRO:HD2	15:M:1863:ARG:NH2	2.29	0.48
15:M:2071:GLU:O	15:M:2075:LEU:HG	2.14	0.48
1:2:606:ILE:HB	1:2:648:ALA:HA	1.96	0.47
1:2:702:SER:HA	1:2:705:ARG:NE	2.28	0.47
2:3:96:ILE:HD11	2:3:153:TRP:CZ3	2.49	0.47
2:3:202:TYR:CE2	2:3:204:ALA:HA	2.49	0.47
3:4:858:GLN:HG2	5:6:690:ASN:HD21	1.78	0.47
4:5:435:ILE:HD12	4:5:475:GLY:HA2	1.96	0.47
5:6:176:ARG:C	5:6:178:LEU:H	2.21	0.47
5:6:403:VAL:HG23	5:6:452:ILE:HG12	1.95	0.47
5:6:512:GLU:O	5:6:516:LEU:HD23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:515:GLU:HB3	5:6:750:GLN:NE2	2.28	0.47
6:7:463:GLY:H	20:7:903:AGS:PG	2.36	0.47
6:7:486:LYS:HE3	6:7:530:ASP:HB2	1.95	0.47
7:A:62:MET:HE3	7:A:62:MET:HB3	1.74	0.47
8:B:16:ILE:HG23	8:B:175:LEU:HD22	1.96	0.47
8:B:105:GLU:OE1	8:B:155:LYS:NZ	2.38	0.47
10:D:59:ASP:OD2	10:D:90:ARG:NH2	2.47	0.47
11:E:103:TYR:OH	11:E:118:ARG:NE	2.47	0.47
11:E:327:PHE:CZ	11:E:340:TYR:HB2	2.49	0.47
11:E:366:MET:HG3	11:E:391:ILE:HG22	1.95	0.47
11:E:525:TYR:HA	11:E:565:LEU:HG	1.96	0.47
12:F:695:PRO:HB2	12:F:718:TRP:CH2	2.48	0.47
12:G:722:LEU:HD13	12:G:776:ILE:HA	1.94	0.47
15:M:1677:ALA:HB1	15:M:1687:LEU:HD22	1.96	0.47
15:M:1945:LEU:CD2	15:M:2054:LEU:HD11	2.44	0.47
15:M:2059:CYS:SG	15:M:2076:ARG:HD2	2.54	0.47
1:2:211:LEU:HD23	1:2:274:VAL:HG21	1.94	0.47
1:2:300:PHE:O	1:2:319:ARG:NH1	2.48	0.47
2:3:160:SER:HB3	2:3:590:LEU:HA	1.96	0.47
2:3:281:ASP:OD1	2:3:281:ASP:N	2.45	0.47
2:3:487:HIS:CD2	2:3:538:SER:HB2	2.49	0.47
3:4:446:ALA:HB2	3:4:454:LYS:N	2.29	0.47
5:6:143:MET:O	5:6:146:TYR:N	2.48	0.47
5:6:308:SER:HB2	5:6:350:ARG:H	1.79	0.47
5:6:756:LYS:O	5:6:760:THR:HG23	2.14	0.47
6:7:65:ALA:O	6:7:68:GLN:HG3	2.14	0.47
6:7:323:PRO:HB2	6:7:326:HIS:CE1	2.49	0.47
6:7:358:ALA:HB2	6:7:375:TYR:HD1	1.79	0.47
6:7:470:LEU:O	6:7:471:LYS:HG2	2.14	0.47
6:7:634:GLU:OE1	6:7:636:SER:OG	2.25	0.47
10:D:258:VAL:O	10:D:267:VAL:N	2.45	0.47
12:F:543:GLY:HA2	12:F:559:HIS:H	1.80	0.47
12:H:895:LEU:CD2	12:H:921:ARG:HG3	2.44	0.47
12:H:897:ALA:O	12:H:901:ILE:HG13	2.14	0.47
15:M:1477:LEU:HD22	15:M:1650:ILE:HA	1.95	0.47
15:M:1687:LEU:HD13	15:M:1689:TRP:HB3	1.94	0.47
15:M:1737:ASP:HB2	15:M:2132:ARG:NH2	2.29	0.47
16:N:214:LYS:HE2	16:N:624:TRP:CH2	2.49	0.47
16:N:481:MET:HB2	16:N:523:VAL:HA	1.96	0.47
1:2:177:LEU:HG	1:2:201:PRO:HD2	1.95	0.47
1:2:271:PHE:HD2	1:2:295:VAL:HG22	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:28:PHE:O	2:3:32:LEU:HG	2.14	0.47
2:3:261:MET:HB2	2:3:264:MET:HB2	1.96	0.47
3:4:265:PRO:O	3:4:269:ILE:HG12	2.13	0.47
3:4:542:LEU:HA	3:4:811:MET:SD	2.54	0.47
3:4:548:THR:HG22	3:4:550:LYS:HG3	1.96	0.47
3:4:880:SER:HB2	3:4:925:ARG:HD3	1.97	0.47
4:5:486:ARG:O	4:5:490:ARG:HG3	2.14	0.47
6:7:579:SER:HB3	6:7:582:ASP:HB2	1.95	0.47
7:A:48:ARG:HD3	10:D:203:PRO:HD3	1.96	0.47
10:D:253:LYS:HZ1	10:D:271:ILE:N	2.06	0.47
11:E:316:LEU:HD12	11:E:413:LEU:HB2	1.95	0.47
12:F:597:PHE:HD2	12:F:610:GLU:OE2	1.98	0.47
12:G:707:LEU:HD13	12:G:718:TRP:CD2	2.50	0.47
12:H:539:LEU:HB2	12:H:559:HIS:NE2	2.29	0.47
15:M:2046:ASN:HB3	15:M:2048:LYS:HG3	1.97	0.47
15:M:2165:SER:HA	15:M:2186:GLU:CD	2.40	0.47
16:N:521:LYS:NZ	16:N:522:ASN:OD1	2.46	0.47
16:N:550:PHE:O	16:N:554:ARG:N	2.47	0.47
1:2:323:VAL:HG22	1:2:423:GLU:CG	2.43	0.47
1:2:499:SER:HB3	1:2:755:ILE:HG22	1.95	0.47
2:3:31:PHE:CE1	2:3:103:LEU:HB3	2.48	0.47
2:3:196:LEU:HA	2:3:249:THR:O	2.14	0.47
3:4:449:ARG:HD3	3:4:449:ARG:H	1.79	0.47
3:4:743:PRO:O	3:4:745:GLU:N	2.47	0.47
4:5:20:ASN:O	4:5:24:ASN:N	2.37	0.47
4:5:497:MET:HE3	4:5:550:PHE:CD1	2.49	0.47
5:6:396:LYS:HG3	5:6:460:ILE:HB	1.96	0.47
9:C:184:TYR:O	9:C:187:THR:OG1	2.30	0.47
11:E:609:PHE:HE2	11:E:628:SER:HA	1.78	0.47
12:G:506:LYS:HG3	12:G:508:SER:H	1.79	0.47
12:G:623:TYR:O	12:G:643:LEU:N	2.48	0.47
12:G:826:GLU:OE2	12:G:865:ALA:HB2	2.14	0.47
12:H:500:GLY:HA2	12:H:518:PHE:H	1.80	0.47
12:H:597:PHE:N	12:H:610:GLU:O	2.43	0.47
15:M:1614:LYS:HG2	15:M:1665:LEU:HB2	1.97	0.47
2:3:256:ILE:N	2:3:275:ASP:OD1	2.47	0.47
3:4:202:LYS:HA	3:4:224:LEU:HG	1.97	0.47
3:4:344:VAL:HG12	3:4:359:GLU:HA	1.97	0.47
3:4:830:ARG:HB3	3:4:834:LYS:NZ	2.29	0.47
4:5:134:THR:O	4:5:280:ARG:NH2	2.47	0.47
4:5:476:VAL:HG22	4:5:518:SER:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:625:ASN:O	4:5:629:ILE:HG12	2.14	0.47
5:6:125:GLN:OE1	5:6:128:ASP:N	2.47	0.47
5:6:593:PRO:O	5:6:594:ARG:HD3	2.14	0.47
5:6:621:TYR:HE2	5:6:668:ILE:HG22	1.80	0.47
6:7:78:VAL:O	6:7:202:LEU:HA	2.14	0.47
6:7:363:PHE:HA	6:7:366:LEU:HG	1.96	0.47
6:7:466:LYS:O	6:7:470:LEU:HB2	2.14	0.47
8:B:1:MET:HG2	8:B:3:LEU:H	1.79	0.47
9:C:18:CYS:O	9:C:44:LEU:N	2.44	0.47
10:D:253:LYS:HZ2	10:D:255:CYS:HA	1.78	0.47
12:F:614:PRO:HD2	12:F:631:SER:OG	2.14	0.47
12:G:540:ASN:ND2	12:G:583:ALA:O	2.47	0.47
12:G:584:THR:HG22	12:G:586:VAL:N	2.29	0.47
12:G:780:VAL:HG21	12:G:828:LEU:HD12	1.97	0.47
12:H:552:GLY:HA2	12:H:578:ILE:HD11	1.95	0.47
15:M:2079:LEU:HA	15:M:2082:ILE:HD12	1.96	0.47
16:N:216:GLN:NE2	16:N:220:THR:OG1	2.25	0.47
1:2:553:LEU:HB3	1:2:605:LEU:HD13	1.95	0.47
1:2:776:PRO:HA	1:2:827:GLU:O	2.15	0.47
18:2:902:ADP:PB	5:6:798:ARG:NH2	2.87	0.47
2:3:113:GLY:HA3	2:3:121:PHE:CZ	2.50	0.47
2:3:467:ARG:CZ	2:3:467:ARG:HA	2.44	0.47
3:4:681:ARG:HG3	3:4:709:LEU:HD11	1.95	0.47
4:5:256:LEU:HB2	4:5:276:MET:HB2	1.95	0.47
4:5:553:ILE:HB	4:5:685:GLN:HE22	1.80	0.47
5:6:118:PHE:HB3	5:6:161:ARG:CZ	2.44	0.47
5:6:304:LEU:HD22	5:6:323:GLN:HE22	1.79	0.47
5:6:314:CYS:SG	5:6:334:PRO:HD2	2.55	0.47
5:6:380:ILE:HB	5:6:455:LEU:HG	1.97	0.47
5:6:399:GLY:HA3	5:6:457:CYS:H	1.80	0.47
5:6:691:ARG:HH12	5:6:717:ASP:N	2.11	0.47
7:A:32:TYR:HA	7:A:93:ARG:HH22	1.80	0.47
8:B:126:LEU:O	8:B:130:ALA:N	2.47	0.47
9:C:110:LYS:HA	9:C:113:MET:HE3	1.97	0.47
10:D:175:LEU:HD23	10:D:179:GLU:HB3	1.96	0.47
10:D:192:LYS:HA	10:D:195:ASN:ND2	2.30	0.47
12:F:484:THR:HB	12:F:493:TYR:HB2	1.96	0.47
15:M:1697:ASP:HA	15:M:1702:GLN:HG3	1.96	0.47
16:N:648:GLN:HE21	16:N:673:MET:HE2	1.79	0.47
1:2:357:GLU:HB3	1:2:433:ASN:HD21	1.78	0.47
1:2:505:ILE:HG23	18:2:902:ADP:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:744:ARG:HH21	1:2:747:ARG:HD2	1.80	0.47
2:3:38:TYR:CE1	2:3:98:ILE:HG13	2.49	0.47
2:3:110:PHE:HA	2:3:121:PHE:HE2	1.79	0.47
2:3:202:TYR:N	2:3:242:THR:O	2.37	0.47
2:3:212:ARG:HD2	2:3:214:TYR:CZ	2.50	0.47
2:3:291:ARG:HB2	2:3:330:HIS:HA	1.96	0.47
2:3:423:LEU:HG	2:3:429:ALA:HB1	1.95	0.47
2:3:488:GLU:HA	2:3:491:GLU:HB3	1.97	0.47
3:4:265:PRO:HD2	3:4:323:ASP:O	2.14	0.47
3:4:403:PRO:O	3:4:406:VAL:HG22	2.15	0.47
3:4:776:GLY:O	3:4:780:MET:HG3	2.15	0.47
3:4:879:ASP:HB3	3:4:926:SER:H	1.80	0.47
5:6:169:ALA:O	5:6:172:GLU:HG3	2.15	0.47
5:6:778:LYS:HB3	5:6:782:LYS:NZ	2.30	0.47
6:7:434:LEU:HD21	6:7:699:LEU:HD12	1.96	0.47
7:A:14:LYS:HB3	9:C:6:ILE:HG12	1.96	0.47
7:A:71:GLN:NE2	9:C:25:PRO:O	2.48	0.47
7:A:74:VAL:HA	7:A:77:LEU:HD12	1.97	0.47
7:A:136:ASP:O	7:A:139:THR:OG1	2.26	0.47
8:B:151:ILE:HA	8:B:154:ILE:HD12	1.97	0.47
9:C:112:ILE:HA	9:C:115:PHE:O	2.14	0.47
9:C:173:GLU:HA	9:C:176:ILE:HD12	1.97	0.47
11:E:5:ILE:HD13	11:E:8:PHE:CE2	2.50	0.47
11:E:44:MET:HE2	11:E:272:LEU:HB2	1.96	0.47
12:F:641:SER:HA	12:F:650:TYR:HA	1.96	0.47
12:F:870:PHE:HA	12:F:885:LEU:HD13	1.96	0.47
12:G:848:TYR:H	12:G:851:GLU:CD	2.22	0.47
12:H:573:GLN:N	12:H:576:GLU:OE1	2.46	0.47
12:H:584:THR:HG21	12:H:643:LEU:HD11	1.96	0.47
12:H:584:THR:OG1	12:H:587:ARG:O	2.29	0.47
12:H:588:VAL:O	12:H:600:PHE:N	2.42	0.47
15:M:1500:SER:HA	15:M:1511:ILE:HA	1.96	0.47
15:M:1575:GLN:O	15:M:1578:THR:OG1	2.25	0.47
15:M:1963:SER:HB2	15:M:2003:PHE:CE1	2.50	0.47
15:M:2084:GLU:OE1	15:M:2084:GLU:N	2.41	0.47
15:M:2094:PHE:CE2	15:M:2096:ASP:HB3	2.49	0.47
16:N:62:PHE:CD1	16:N:88:ILE:HG13	2.49	0.47
16:N:399:PHE:HA	16:N:431:LEU:HB3	1.96	0.47
16:N:399:PHE:HB3	16:N:431:LEU:HD22	1.97	0.47
16:N:450:ARG:HH12	16:N:454:SER:HB2	1.80	0.47
2:3:346:ASP:HA	2:3:349:ASN:HD22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:467:ARG:HH12	2:3:509:ARG:HG3	1.79	0.47
2:3:566:LEU:HD22	2:3:570:ARG:NH2	2.29	0.47
3:4:347:PHE:HB2	3:4:356:MET:SD	2.55	0.47
5:6:173:GLN:HE21	5:6:176:ARG:NH2	2.13	0.47
5:6:782:LYS:HD3	5:6:790:ARG:HH11	1.80	0.47
6:7:483:THR:O	6:7:524:ASP:N	2.48	0.47
6:7:517:ASP:O	6:7:561:THR:OG1	2.26	0.47
8:B:2:SER:HA	10:D:145:ARG:HE	1.79	0.47
8:B:119:TRP:HE1	8:B:174:SER:HB2	1.79	0.47
11:E:239:GLU:O	11:E:243:GLN:NE2	2.48	0.47
12:F:631:SER:HB2	12:F:634:HIS:HB2	1.97	0.47
12:F:868:ARG:HD3	12:F:868:ARG:C	2.39	0.47
16:N:291:ASN:HB2	16:N:297:SER:HB3	1.95	0.47
16:N:617:ASP:OD1	16:N:622:ILE:N	2.48	0.47
1:2:178:ARG:HA	1:2:205:ARG:HB2	1.97	0.47
1:2:188:ASN:OD1	1:2:190:LYS:NZ	2.46	0.47
1:2:248:HIS:H	1:2:251:GLU:CD	2.22	0.47
2:3:173:ALA:HA	2:3:298:PHE:HE2	1.80	0.47
2:3:506:LEU:HD23	2:3:507:ASN:O	2.15	0.47
3:4:206:ARG:HH21	3:4:246:ARG:HB3	1.80	0.47
3:4:428:ARG:HH22	5:6:372:SER:HA	1.78	0.47
5:6:309:PHE:C	5:6:347:ASN:HB2	2.40	0.47
5:6:440:LEU:HD23	5:6:442:SER:H	1.79	0.47
5:6:828:TYR:O	5:6:832:ARG:NE	2.38	0.47
6:7:110:ALA:HA	6:7:113:PHE:HB2	1.96	0.47
6:7:149:ARG:NH1	6:7:266:GLY:O	2.48	0.47
7:A:44:VAL:HA	7:A:47:LEU:HB2	1.97	0.47
8:B:119:TRP:HA	8:B:122:LEU:HD12	1.97	0.47
11:E:325:TYR:CB	11:E:404:ILE:HG23	2.45	0.47
12:G:554:ILE:N	12:G:568:LYS:O	2.35	0.47
12:H:684:ILE:HA	12:H:699:GLY:HA2	1.97	0.47
15:M:1357:ILE:HD13	15:M:1431:ILE:HB	1.97	0.47
16:N:217:MET:SD	16:N:218:PHE:N	2.88	0.47
1:2:406:ARG:NE	1:2:449:THR:O	2.48	0.47
1:2:527:VAL:N	1:2:531:HIS:O	2.28	0.47
2:3:682:ASN:O	2:3:686:LEU:HG	2.15	0.47
3:4:641:THR:HA	3:4:644:VAL:HG12	1.95	0.47
3:4:769:GLU:OE2	3:4:772:ARG:NH2	2.48	0.47
4:5:422:LYS:HE3	4:5:524:ASN:OD1	2.15	0.47
4:5:482:PHE:CZ	4:5:521:ALA:HA	2.49	0.47
5:6:114:ALA:HA	5:6:117:GLN:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:657:GLU:HG2	5:6:708:ARG:HE	1.80	0.47
5:6:735:HIS:C	5:6:736:MET:HE2	2.39	0.47
5:6:740:GLU:O	5:6:742:ILE:HG12	2.15	0.47
5:6:796:THR:N	5:6:799:GLN:HB2	2.30	0.47
6:7:29:LYS:HG3	6:7:61:PRO:HA	1.97	0.47
7:A:38:ARG:HB3	7:A:42:LYS:HZ3	1.80	0.47
7:A:51:THR:O	7:A:55:LYS:HE2	2.14	0.47
9:C:181:HIS:O	9:C:185:LYS:HG3	2.15	0.47
9:C:188:LYS:HA	9:C:191:MET:SD	2.55	0.47
10:D:150:LYS:HA	10:D:153:LYS:HE2	1.97	0.47
11:E:81:LEU:HB3	11:E:120:ILE:HG13	1.97	0.47
12:F:729:TRP:NE1	12:F:734:GLY:HA2	2.30	0.47
12:G:493:TYR:HE1	12:G:501:TYR:HD2	1.63	0.47
15:M:1346:VAL:HG13	15:M:1347:GLN:N	2.30	0.47
15:M:1502:PHE:HB2	15:M:1509:ILE:HD12	1.97	0.47
15:M:2148:GLN:HA	16:N:494:MET:CE	2.45	0.47
15:M:2199:ASN:HA	15:M:2202:LYS:HE2	1.96	0.47
16:N:40:ALA:HA	16:N:43:GLU:CD	2.40	0.47
1:2:219:THR:HA	1:2:225:SER:HA	1.96	0.46
1:2:260:LEU:HD12	1:2:264:PRO:HA	1.97	0.46
1:2:521:GLY:HA2	1:2:537:ILE:HD12	1.97	0.46
1:2:658:ASN:HD22	1:2:661:LEU:HB2	1.80	0.46
2:3:195:LYS:HB2	2:3:251:ILE:CG1	2.45	0.46
2:3:410:ASP:CG	2:3:522:GLN:HG3	2.40	0.46
2:3:676:ILE:HD12	6:7:617:THR:HG22	1.96	0.46
3:4:352:CYS:SG	3:4:353:ASP:N	2.84	0.46
4:5:156:VAL:HA	4:5:298:TYR:CD2	2.50	0.46
4:5:181:ILE:HB	4:5:241:TYR:HB3	1.98	0.46
4:5:181:ILE:HG22	4:5:243:ILE:HA	1.97	0.46
5:6:390:LYS:HD2	5:6:391:PRO:HD2	1.97	0.46
6:7:244:ILE:HG13	6:7:347:ASP:O	2.14	0.46
6:7:260:TYR:HE1	6:7:300:MET:HE1	1.79	0.46
6:7:458:LEU:HD12	6:7:564:LEU:HD11	1.97	0.46
6:7:499:LYS:O	6:7:502:VAL:HB	2.16	0.46
6:7:538:HIS:CD2	6:7:590:LEU:HD13	2.51	0.46
6:7:615:HIS:O	6:7:618:TYR:HB2	2.15	0.46
7:A:65:ASP:O	7:A:69:LYS:N	2.48	0.46
10:D:76:LEU:HD11	10:D:147:ARG:NE	2.30	0.46
10:D:268:GLU:OE1	10:D:268:GLU:N	2.48	0.46
11:E:64:TYR:CE2	11:E:625:PHE:HA	2.50	0.46
12:F:897:ALA:HA	12:F:900:LYS:HE2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1837:HIS:O	15:M:1841:LYS:HG3	2.15	0.46
16:N:674:GLU:HB2	16:N:683:ILE:HG13	1.96	0.46
1:2:183:LEU:HD13	1:2:253:LYS:HE2	1.97	0.46
1:2:323:VAL:HG22	1:2:423:GLU:HG3	1.97	0.46
1:2:547:THR:HG21	1:2:683:VAL:HG11	1.96	0.46
2:3:332:ARG:NE	2:3:424:ASN:HA	2.31	0.46
2:3:435:ARG:HH22	2:3:479:THR:HG22	1.79	0.46
2:3:663:ALA:O	2:3:667:VAL:HG12	2.15	0.46
3:4:197:PHE:CE2	3:4:254:THR:HG21	2.50	0.46
5:6:113:GLU:HA	5:6:116:GLU:OE2	2.16	0.46
6:7:107:GLN:NE2	6:7:238:LEU:O	2.43	0.46
6:7:652:MET:HE1	6:7:657:ASN:HB2	1.97	0.46
7:A:90:GLN:HE21	7:A:94:THR:HG23	1.80	0.46
8:B:29:PRO:HD2	8:B:67:ARG:H	1.80	0.46
8:B:80:LYS:NZ	8:B:86:SER:HA	2.30	0.46
11:E:572:ILE:HB	11:E:579:TYR:HE1	1.79	0.46
12:G:689:PHE:CZ	12:G:693:GLY:HA2	2.51	0.46
12:H:727:GLU:HA	12:H:730:LYS:HE3	1.96	0.46
15:M:1369:GLN:HE21	15:M:1413:ASN:CB	2.26	0.46
16:N:479:THR:HG22	16:N:480:THR:N	2.30	0.46
1:2:201:PRO:HA	1:2:204:SER:HB3	1.96	0.46
1:2:433:ASN:OD1	1:2:434:TYR:N	2.47	0.46
1:2:740:ALA:HA	1:2:743:ARG:NE	2.30	0.46
1:2:855:ARG:O	1:2:859:ARG:HG3	2.15	0.46
2:3:111:TRP:HH2	9:C:90:THR:HA	1.80	0.46
2:3:115:LEU:HB3	2:3:164:HIS:CE1	2.51	0.46
2:3:555:GLU:OE2	16:N:276:GLY:HA2	2.16	0.46
3:4:342:MET:SD	3:4:360:ILE:HD11	2.55	0.46
3:4:418:CYS:HB3	3:4:462:ASP:CG	2.40	0.46
3:4:654:ILE:HG21	3:4:665:LEU:HD12	1.97	0.46
4:5:166:ILE:O	4:5:289:GLY:N	2.40	0.46
4:5:407:ARG:NH2	4:5:497:MET:HE2	2.31	0.46
4:5:480:ASP:HA	4:5:522:ALA:HB3	1.97	0.46
5:6:398:THR:O	5:6:457:CYS:N	2.49	0.46
5:6:720:ASN:O	5:6:723:ILE:HG22	2.16	0.46
6:7:92:LYS:HE2	6:7:97:THR:HB	1.96	0.46
6:7:312:GLU:OE1	6:7:312:GLU:N	2.47	0.46
7:A:164:ASP:HA	7:A:190:PHE:HA	1.97	0.46
7:A:193:GLN:HG2	7:A:197:GLU:CD	2.40	0.46
8:B:1:MET:HG2	8:B:3:LEU:N	2.31	0.46
8:B:35:GLN:OE1	8:B:35:GLN:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:D:159:ARG:NH2	10:D:184:ASP:HA	2.29	0.46
11:E:100:PRO:HA	11:E:139:ILE:HD11	1.96	0.46
11:E:351:TRP:HA	11:E:511:VAL:HG12	1.97	0.46
11:E:410:VAL:HG13	11:E:419:ILE:C	2.40	0.46
11:E:644:LEU:HD22	11:E:650:LEU:HD11	1.98	0.46
12:F:883:LEU:HG	12:F:887:HIS:NE2	2.29	0.46
12:H:706:LEU:HB3	12:H:719:LEU:HB2	1.98	0.46
1:2:573:ALA:N	1:2:616:ASP:OD1	2.48	0.46
2:3:497:ILE:HG22	2:3:497:ILE:O	2.16	0.46
4:5:666:LEU:HD13	4:5:678:ASP:OD1	2.15	0.46
4:5:711:ILE:HD12	4:5:757:LYS:NZ	2.29	0.46
5:6:134:LYS:O	5:6:139:GLN:HB2	2.15	0.46
5:6:297:THR:HA	5:6:359:VAL:HA	1.97	0.46
5:6:308:SER:HB3	5:6:347:ASN:HB3	1.97	0.46
5:6:688:ARG:NH1	5:6:690:ASN:OD1	2.48	0.46
5:6:726:GLU:HG2	5:6:727:LEU:H	1.81	0.46
7:A:37:ILE:O	7:A:41:LEU:HG	2.15	0.46
7:A:125:HIS:O	7:A:128:GLN:HB2	2.16	0.46
7:A:175:GLN:HA	16:N:18:ARG:NH2	2.31	0.46
8:B:26:LYS:HG3	8:B:88:VAL:HG21	1.96	0.46
8:B:28:PHE:HB2	8:B:86:SER:HB3	1.98	0.46
10:D:208:ALA:HB3	10:D:211:ASP:HB2	1.96	0.46
11:E:159:TYR:CZ	11:E:163:LEU:HD11	2.50	0.46
11:E:396:LEU:O	11:E:400:GLY:N	2.49	0.46
12:F:473:LYS:N	12:F:475:ARG:HH22	2.13	0.46
12:F:687:LEU:HD13	12:F:697:ILE:HG12	1.98	0.46
12:F:824:GLU:HA	12:F:827:TYR:CD1	2.50	0.46
12:G:539:LEU:HA	12:G:544:THR:HA	1.98	0.46
12:H:582:ALA:HB3	12:H:589:ILE:HB	1.97	0.46
15:M:1945:LEU:HB3	15:M:1950:GLN:CG	2.44	0.46
15:M:1954:GLU:HG3	15:M:1958:MET:HE1	1.96	0.46
15:M:1963:SER:HB2	15:M:2003:PHE:HE1	1.80	0.46
15:M:2155:GLU:OE2	16:N:495:VAL:HG12	2.16	0.46
16:N:229:VAL:HG11	16:N:327:LEU:HD21	1.97	0.46
16:N:320:TYR:CE1	16:N:346:LEU:HB2	2.51	0.46
16:N:467:THR:O	16:N:471:ARG:N	2.46	0.46
1:2:264:PRO:HB2	1:2:268:LEU:HD11	1.96	0.46
1:2:426:VAL:HG12	1:2:456:ILE:HA	1.98	0.46
1:2:439:ASN:ND2	1:2:446:VAL:O	2.49	0.46
2:3:677:ASN:O	2:3:681:LYS:HD3	2.16	0.46
3:4:551:THR:HB	3:4:668:ARG:HH12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:579:GLN:O	3:4:583:LYS:HG2	2.14	0.46
4:5:51:ARG:NH1	4:5:52:ASN:OD1	2.49	0.46
4:5:547:LEU:HB2	4:5:651:ARG:NH2	2.31	0.46
5:6:177:PHE:O	5:6:179:PRO:HD2	2.14	0.46
5:6:270:LEU:HD22	5:6:289:SER:HB2	1.98	0.46
5:6:776:LYS:HA	5:6:779:GLU:HG2	1.96	0.46
5:6:803:MET:HG3	5:6:831:LEU:HD11	1.96	0.46
6:7:260:TYR:HH	6:7:278:PHE:HE1	1.64	0.46
6:7:495:ALA:HA	6:7:512:ALA:HB3	1.98	0.46
6:7:573:ARG:NH1	6:7:574:TYR:O	2.48	0.46
6:7:718:ARG:HA	6:7:721:ARG:HG2	1.97	0.46
7:A:14:LYS:O	7:A:17:LYS:HG3	2.16	0.46
7:A:29:LEU:O	7:A:122:ASN:ND2	2.49	0.46
8:B:21:GLU:HA	8:B:73:LEU:HD23	1.97	0.46
8:B:158:LYS:HD3	8:B:161:LYS:HD2	1.97	0.46
10:D:8:ILE:O	10:D:12:LEU:HG	2.16	0.46
11:E:130:ASN:O	11:E:134:ILE:HG13	2.15	0.46
11:E:304:PRO:HA	12:F:766:PHE:HE2	1.81	0.46
12:G:484:THR:HG22	12:G:764:PRO:HD2	1.97	0.46
12:G:601:ASN:HB3	12:G:607:PHE:CZ	2.51	0.46
12:H:478:PRO:HB3	12:H:578:ILE:O	2.16	0.46
15:M:1924:GLU:HG3	15:M:1926:GLU:H	1.80	0.46
16:N:228:ARG:NH1	16:N:347:PRO:HB2	2.30	0.46
16:N:472:PHE:HB2	16:N:475:LEU:HB3	1.97	0.46
2:3:253:HIS:HA	2:3:279:ASP:OD1	2.16	0.46
2:3:491:GLU:OE1	2:3:542:ARG:NE	2.48	0.46
2:3:554:ASN:OD1	2:3:555:GLU:N	2.49	0.46
3:4:909:ARG:NH1	5:6:696:ARG:O	2.48	0.46
4:5:173:SER:N	4:5:253:GLN:O	2.49	0.46
4:5:544:THR:HA	4:5:547:LEU:HG	1.98	0.46
5:6:128:ASP:OD1	5:6:133:GLU:N	2.44	0.46
5:6:498:GLU:HB2	5:6:503:VAL:HG11	1.97	0.46
5:6:504:PHE:CE1	5:6:757:TYR:HB2	2.50	0.46
5:6:650:VAL:HA	5:6:653:HIS:ND1	2.31	0.46
5:6:748:ALA:O	5:6:751:LEU:HB3	2.15	0.46
5:6:775:GLU:O	5:6:779:GLU:HG2	2.16	0.46
7:A:56:GLU:HG2	7:A:60:LEU:HD22	1.98	0.46
7:A:72:TYR:CE2	7:A:76:LEU:HD11	2.50	0.46
8:B:164:ASN:H	8:B:168:LEU:HD21	1.81	0.46
9:C:106:SER:HB3	9:C:110:LYS:HZ3	1.80	0.46
9:C:129:LEU:HG	9:C:133:GLN:HE22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:244:GLY:N	11:E:602:LEU:HB3	2.30	0.46
11:E:397:ASP:OD1	11:E:397:ASP:N	2.48	0.46
11:E:522:LEU:C	11:E:524:ILE:H	2.23	0.46
12:F:493:TYR:CD1	12:F:503:SER:HB3	2.50	0.46
12:F:782:VAL:HB	12:F:785:LYS:HE3	1.97	0.46
12:H:485:PRO:HD2	12:H:763:TRP:CG	2.51	0.46
12:H:615:ILE:HG13	12:H:628:VAL:O	2.15	0.46
12:H:711:ARG:HG2	12:H:843:ASN:ND2	2.30	0.46
1:2:422:GLU:O	1:2:423:GLU:HB3	2.14	0.46
2:3:95:ARG:NH1	2:3:154:LYS:HB3	2.31	0.46
3:4:545:PHE:HB3	3:4:810:LYS:HB3	1.98	0.46
3:4:559:ARG:HD3	3:4:668:ARG:HH11	1.81	0.46
3:4:632:ASP:HA	3:4:674:SER:HB3	1.97	0.46
4:5:422:LYS:HE2	4:5:422:LYS:HB2	1.84	0.46
5:6:142:PHE:CE2	5:6:146:TYR:HE1	2.34	0.46
5:6:508:LEU:CD1	5:6:753:ARG:HD2	2.45	0.46
5:6:570:ASN:O	5:6:710:ASP:N	2.47	0.46
6:7:30:GLN:HG3	6:7:62:LYS:HD3	1.96	0.46
6:7:141:VAL:HA	6:7:144:ASN:ND2	2.31	0.46
6:7:239:ILE:HD11	6:7:376:LEU:HD11	1.97	0.46
6:7:260:TYR:HB3	6:7:298:LEU:HB3	1.98	0.46
10:D:56:PRO:HG3	10:D:90:ARG:HE	1.79	0.46
10:D:191:LEU:HD12	10:D:209:ILE:HG21	1.98	0.46
11:E:620:VAL:HG12	11:E:632:ILE:HB	1.97	0.46
12:G:883:LEU:HA	12:G:913:LYS:HZ3	1.81	0.46
15:M:1369:GLN:NE2	15:M:1413:ASN:HB2	2.29	0.46
15:M:1534:GLN:NE2	15:M:1535:MET:HG3	2.30	0.46
16:N:269:THR:OG1	16:N:282:PHE:HB3	2.15	0.46
16:N:332:TYR:HA	16:N:339:PHE:HA	1.98	0.46
1:2:314:LEU:HA	1:2:430:TYR:CD2	2.51	0.46
1:2:402:LEU:O	1:2:404:ARG:NH2	2.29	0.46
1:2:661:LEU:HG	1:2:665:GLN:HB2	1.98	0.46
1:2:824:ARG:HE	1:2:826:SER:CB	2.29	0.46
3:4:314:MET:HA	3:4:317:LEU:HB2	1.97	0.46
3:4:808:HIS:HA	3:4:811:MET:CE	2.40	0.46
4:5:34:PHE:HA	4:5:71:TYR:CZ	2.50	0.46
4:5:161:ARG:C	4:5:162:LEU:HD12	2.41	0.46
5:6:499:ARG:C	5:6:760:THR:HG22	2.41	0.46
5:6:529:LEU:HD22	5:6:754:TYR:OH	2.15	0.46
5:6:703:ALA:HA	5:6:706:MET:HG3	1.98	0.46
7:A:127:GLU:HA	7:A:130:TYR:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:163:ILE:HD11	7:A:196:VAL:HG21	1.98	0.46
8:B:196:HIS:O	8:B:200:LEU:HG	2.16	0.46
9:C:138:HIS:CE1	9:C:162:THR:HA	2.51	0.46
12:F:638:TYR:N	12:F:655:CYS:O	2.48	0.46
12:F:870:PHE:CZ	12:F:882:ALA:HB1	2.50	0.46
12:H:549:SER:HA	12:H:578:ILE:HD12	1.98	0.46
12:H:914:ILE:O	12:H:918:ARG:HG2	2.16	0.46
15:M:1372:LYS:HG3	15:M:1407:PHE:CB	2.46	0.46
15:M:1920:LEU:HD11	15:M:1961:LEU:HD21	1.97	0.46
16:N:283:LEU:HD11	16:N:327:LEU:HD22	1.98	0.46
16:N:354:ILE:O	16:N:357:GLU:HG2	2.16	0.46
16:N:550:PHE:O	16:N:554:ARG:HG2	2.15	0.46
1:2:557:GLU:OE1	1:2:558:LYS:HG3	2.16	0.46
2:3:89:LEU:HB3	2:3:90:ASN:H	1.45	0.46
2:3:110:PHE:CE2	2:3:114:ILE:HD11	2.51	0.46
2:3:349:ASN:C	2:3:351:ASN:H	2.24	0.46
3:4:830:ARG:HB3	3:4:834:LYS:HZ2	1.79	0.46
6:7:107:GLN:NE2	6:7:107:GLN:O	2.48	0.46
6:7:331:LEU:HD12	6:7:332:ASN:H	1.81	0.46
6:7:402:MET:HA	6:7:405:ILE:HG12	1.98	0.46
6:7:500:ASP:HB3	6:7:506:MET:HE3	1.98	0.46
9:C:49:TRP:C	9:C:52:ARG:HH11	2.23	0.46
11:E:619:LYS:HE2	11:E:633:ARG:HG3	1.97	0.46
12:G:914:ILE:O	12:G:918:ARG:HG2	2.15	0.46
12:H:560:ASP:OD1	12:H:560:ASP:N	2.49	0.46
15:M:1864:ASN:HB3	15:M:2113:PHE:HZ	1.80	0.46
15:M:1946:SER:HA	15:M:2038:PRO:HD3	1.97	0.46
16:N:40:ALA:HB2	16:N:78:PHE:CD1	2.50	0.46
16:N:169:TYR:CG	16:N:535:LEU:HB3	2.51	0.46
1:2:658:ASN:ND2	1:2:661:LEU:HB2	2.31	0.46
1:2:841:VAL:O	1:2:844:SER:OG	2.30	0.46
3:4:304:ARG:HA	3:4:465:HIS:HB2	1.97	0.46
4:5:378:ILE:HD13	4:5:425:LEU:HD11	1.98	0.46
4:5:430:GLU:HG2	4:5:478:CYS:SG	2.56	0.46
4:5:638:LEU:O	4:5:641:THR:HG23	2.16	0.46
5:6:139:GLN:O	5:6:143:MET:HG2	2.15	0.46
5:6:781:ARG:C	5:6:790:ARG:HB3	2.41	0.46
6:7:133:ASP:N	6:7:133:ASP:OD1	2.49	0.46
7:A:126:GLN:HA	7:A:129:GLU:OE2	2.16	0.46
7:A:142:LYS:NZ	7:A:152:SER:H	2.12	0.46
11:E:43:LYS:HG3	11:E:484:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:103:TYR:CD2	11:E:116:PHE:HB3	2.49	0.46
11:E:514:LEU:HD23	11:E:514:LEU:HA	1.79	0.46
11:E:634:ARG:HG3	11:E:635:GLU:N	2.31	0.46
12:F:872:SER:O	12:F:875:SER:OG	2.19	0.46
12:G:507:ASN:HD22	12:G:510:GLN:HG3	1.81	0.46
12:H:510:GLN:HB2	12:H:530:ASP:O	2.15	0.46
15:M:1948:ILE:O	15:M:1951:PRO:HD2	2.15	0.46
1:2:296:ARG:HD3	1:2:454:ASN:O	2.16	0.45
1:2:428:GLY:CA	1:2:453:ALA:HA	2.47	0.45
1:2:861:PHE:O	1:2:865:THR:HG23	2.16	0.45
2:3:99:SER:HA	2:3:158:LYS:N	2.26	0.45
3:4:455:SER:N	6:7:276:ARG:O	2.50	0.45
4:5:25:THR:HA	4:5:28:ILE:HD12	1.99	0.45
4:5:64:ASN:HB3	4:5:67:HIS:ND1	2.31	0.45
5:6:568:ASP:HB3	5:6:677:SER:HA	1.98	0.45
6:7:149:ARG:HH22	6:7:268:GLU:H	1.64	0.45
7:A:65:ASP:OD2	7:A:69:LYS:HG2	2.17	0.45
7:A:138:ILE:HA	7:A:141:LEU:HD12	1.98	0.45
8:B:30:ARG:NH1	8:B:83:SER:O	2.48	0.45
8:B:116:PRO:HG2	8:B:119:TRP:HB3	1.98	0.45
10:D:78:PRO:O	10:D:80:PRO:HD3	2.15	0.45
11:E:152:LEU:O	11:E:156:LYS:N	2.36	0.45
11:E:301:ARG:NH2	12:F:513:ILE:O	2.47	0.45
11:E:382:HIS:CE1	11:E:386:ARG:HB3	2.51	0.45
12:F:778:MET:HE1	12:F:829:ARG:HG3	1.98	0.45
12:G:625:VAL:HG23	12:G:643:LEU:HB2	1.96	0.45
12:H:548:GLN:HB3	12:H:551:THR:OG1	2.15	0.45
15:M:1528:LEU:O	15:M:1532:TYR:HB2	2.15	0.45
16:N:94:ARG:O	16:N:98:GLU:HG2	2.15	0.45
16:N:175:ALA:HB1	16:N:626:LEU:HD21	1.97	0.45
1:2:401:ARG:HH11	5:6:390:LYS:NZ	2.13	0.45
1:2:607:ASP:OD2	1:2:608:GLU:HG3	2.16	0.45
1:2:747:ARG:HE	1:2:751:LYS:NZ	2.13	0.45
2:3:164:HIS:HB3	2:3:180:VAL:HG12	1.98	0.45
2:3:201:HIS:HA	2:3:243:THR:HA	1.98	0.45
3:4:445:ARG:HG2	3:4:447:ASN:O	2.16	0.45
4:5:34:PHE:HD1	4:5:71:TYR:CD1	2.34	0.45
4:5:478:CYS:SG	4:5:520:LEU:HD22	2.56	0.45
4:5:684:PHE:HD1	15:M:2182:ALA:HB1	1.80	0.45
6:7:526:PHE:HB3	6:7:567:ALA:N	2.31	0.45
10:D:79:TYR:HB3	10:D:81:HIS:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:D:151:ILE:O	10:D:155:SER:OG	2.31	0.45
12:F:550:LYS:HZ1	12:F:577:ARG:HB2	1.80	0.45
12:F:652:LYS:HA	12:F:652:LYS:HD2	1.72	0.45
12:H:543:GLY:HA3	12:H:556:TYR:CE1	2.51	0.45
15:M:1427:PHE:HA	15:M:1700:GLY:HA3	1.98	0.45
15:M:2007:PHE:CE2	15:M:2011:LEU:HD22	2.49	0.45
15:M:2190:PRO:HG2	15:M:2192:GLU:OE2	2.17	0.45
16:N:637:SER:O	16:N:657:LYS:N	2.37	0.45
1:2:333:GLN:HG2	4:5:322:ALA:HB3	1.98	0.45
2:3:200:VAL:HG21	2:3:247:TYR:HB2	1.97	0.45
2:3:415:LYS:HD3	18:3:1001:ADP:PB	2.56	0.45
3:4:559:ARG:HH11	3:4:560:GLY:H	1.64	0.45
3:4:657:ALA:O	3:4:658:LYS:HD3	2.15	0.45
3:4:914:ASP:HB2	5:6:793:TYR:CE2	2.51	0.45
4:5:354:GLU:HA	4:5:357:PHE:CD2	2.52	0.45
6:7:102:LEU:O	6:7:106:ILE:HG12	2.16	0.45
6:7:459:MET:HB2	6:7:597:LEU:HD11	1.97	0.45
6:7:530:ASP:OD2	6:7:532:SER:OG	2.18	0.45
6:7:534:ARG:HH11	6:7:587:PRO:HD3	1.81	0.45
7:A:65:ASP:HB3	7:A:69:LYS:HB2	1.98	0.45
8:B:190:ASP:OD1	10:D:227:PHE:N	2.45	0.45
9:C:23:ASP:HB3	9:C:40:LYS:N	2.30	0.45
9:C:98:HIS:HB2	9:C:169:LEU:O	2.17	0.45
9:C:111:TRP:O	9:C:115:PHE:N	2.40	0.45
10:D:223:ASP:O	10:D:226:LYS:NZ	2.34	0.45
11:E:70:HIS:O	11:E:74:LEU:HG	2.16	0.45
11:E:93:GLU:O	11:E:97:GLU:N	2.45	0.45
11:E:282:ILE:HA	11:E:590:ARG:HH21	1.80	0.45
12:F:626:PHE:CZ	12:F:638:TYR:HB2	2.51	0.45
12:F:785:LYS:O	12:F:789:GLU:HG2	2.16	0.45
12:G:548:GLN:HB3	12:G:551:THR:OG1	2.17	0.45
12:G:694:ASP:CB	12:G:706:LEU:HD11	2.46	0.45
15:M:2060:HIS:HA	15:M:2063:LEU:HD12	1.98	0.45
16:N:403:GLY:HA3	16:N:664:PHE:HA	1.98	0.45
1:2:410:LEU:HB3	1:2:415:VAL:HA	1.97	0.45
1:2:493:ILE:HG12	1:2:497:ILE:HD11	1.98	0.45
2:3:352:LYS:HG3	2:3:353:LEU:HD12	1.97	0.45
2:3:539:LEU:HA	2:3:542:ARG:HB2	1.99	0.45
2:3:583:ARG:HA	2:3:583:ARG:NE	2.32	0.45
3:4:566:LEU:H	3:4:673:ALA:HB3	1.81	0.45
3:4:916:VAL:HA	3:4:927:VAL:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:421:ALA:N	20:5:803:AGS:O2B	2.49	0.45
4:5:719:LYS:HD2	4:5:722:LEU:HD22	1.98	0.45
4:5:740:THR:OG1	4:5:743:PHE:HB3	2.17	0.45
5:6:573:VAL:HG13	5:6:679:LEU:HD11	1.98	0.45
5:6:765:LEU:HD11	5:6:773:LEU:HD23	1.99	0.45
6:7:382:ARG:NH1	6:7:384:HIS:HA	2.31	0.45
6:7:428:VAL:O	6:7:432:LEU:HG	2.16	0.45
6:7:715:GLU:OE2	6:7:718:ARG:NH2	2.49	0.45
8:B:28:PHE:N	8:B:86:SER:O	2.33	0.45
11:E:145:ASP:OD1	11:E:148:VAL:HG12	2.16	0.45
11:E:640:PHE:O	11:E:644:LEU:HG	2.17	0.45
12:F:773:GLU:O	12:F:774:MET:HE2	2.16	0.45
12:G:539:LEU:HB2	12:G:559:HIS:CE1	2.51	0.45
12:G:821:MET:O	12:G:824:GLU:HB3	2.16	0.45
12:G:864:LYS:HD3	12:G:867:LEU:HD12	1.98	0.45
12:H:513:ILE:O	12:H:528:PHE:N	2.45	0.45
12:H:756:LEU:HB3	12:H:758:LYS:NZ	2.31	0.45
15:M:1706:ASP:OD1	15:M:1709:THR:OG1	2.33	0.45
1:2:227:TYR:O	1:2:231:ILE:HG13	2.15	0.45
1:2:438:LEU:HD12	1:2:441:LYS:HD2	1.99	0.45
1:2:693:GLU:HA	5:6:778:LYS:NZ	2.32	0.45
2:3:130:THR:HG21	2:3:150:ARG:NH2	2.32	0.45
2:3:133:ALA:O	2:3:137:ASP:N	2.42	0.45
2:3:360:PHE:HE2	2:3:379:LYS:HD2	1.81	0.45
2:3:573:PRO:HB2	2:3:576:TYR:CE2	2.52	0.45
2:3:687:ARG:NH2	6:7:604:PRO:HA	2.32	0.45
3:4:587:ARG:HB3	3:4:623:LEU:O	2.16	0.45
3:4:635:ASP:HB2	3:4:636:LYS:NZ	2.32	0.45
4:5:381:ASN:HB3	4:5:384:ILE:HD13	1.97	0.45
4:5:606:CYS:O	4:5:610:CYS:N	2.49	0.45
6:7:24:PHE:CD1	6:7:88:TYR:HB2	2.52	0.45
6:7:137:ASP:HA	6:7:140:ASP:HB2	1.96	0.45
6:7:242:ARG:HB2	6:7:321:GLN:HE22	1.80	0.45
6:7:410:VAL:HG22	6:7:414:LEU:HB2	1.99	0.45
7:A:48:ARG:HH21	10:D:201:TYR:C	2.24	0.45
7:A:119:ASP:CG	7:A:121:ASN:H	2.25	0.45
7:A:174:ILE:HD11	16:N:74:GLU:OE1	2.17	0.45
8:B:121:VAL:HG13	9:C:190:TRP:HH2	1.80	0.45
9:C:185:LYS:O	9:C:188:LYS:HG3	2.17	0.45
11:E:29:ILE:HB	11:E:58:ILE:HA	1.98	0.45
11:E:153:GLY:O	11:E:156:LYS:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:160:TYR:O	11:E:164:GLU:HG3	2.16	0.45
11:E:463:ALA:O	11:E:467:THR:HG23	2.17	0.45
12:F:558:PRO:HD2	12:F:565:ASN:OD1	2.16	0.45
12:G:496:MET:HE1	12:G:743:TRP:HB3	1.97	0.45
12:G:589:ILE:HD12	12:G:597:PHE:CE1	2.50	0.45
12:G:915:ASN:O	12:G:919:GLU:HG2	2.16	0.45
12:H:534:TYR:CD1	12:H:548:GLN:HB2	2.35	0.45
12:H:592:THR:HG23	12:H:594:LEU:N	2.32	0.45
1:2:523:VAL:HG23	1:2:818:GLU:HB3	1.99	0.45
1:2:610:ASP:CG	1:2:651:ASN:H	2.25	0.45
1:2:657:TYR:HE1	1:2:659:SER:HA	1.81	0.45
1:2:659:SER:OG	1:2:851:VAL:HB	2.17	0.45
1:2:809:HIS:O	1:2:813:ILE:HG13	2.16	0.45
2:3:253:HIS:NE2	2:3:277:ILE:HD12	2.32	0.45
3:4:378:GLU:HB2	3:4:381:SER:HB3	1.99	0.45
3:4:769:GLU:O	3:4:772:ARG:HD3	2.16	0.45
3:4:911:GLN:HA	3:4:916:VAL:O	2.16	0.45
4:5:176:ALA:HA	4:5:250:PHE:HD1	1.82	0.45
4:5:387:ALA:O	4:5:665:LYS:NZ	2.45	0.45
4:5:722:LEU:HG	4:5:726:TRP:CD1	2.52	0.45
4:5:771:TYR:HA	15:M:2189:LEU:H	1.82	0.45
5:6:405:PRO:HA	5:6:450:TYR:HA	1.98	0.45
5:6:596:VAL:HG11	5:6:627:ALA:HA	1.98	0.45
6:7:412:ASN:O	6:7:416:LYS:HG3	2.17	0.45
8:B:145:ILE:HG13	8:B:146:GLN:N	2.31	0.45
12:F:621:GLN:HG2	12:F:622:ASN:H	1.81	0.45
12:F:652:LYS:HE2	12:F:655:CYS:HB2	1.99	0.45
12:F:780:VAL:HA	12:G:571:PRO:HG3	1.99	0.45
12:F:883:LEU:HG	12:F:887:HIS:CE1	2.52	0.45
12:G:741:HIS:CE1	12:G:762:ILE:HA	2.52	0.45
12:H:784:SER:HA	12:H:787:LEU:HD12	1.99	0.45
15:M:1954:GLU:HA	15:M:1957:MET:HG3	1.98	0.45
16:N:86:GLU:O	16:N:89:GLN:HG3	2.17	0.45
1:2:401:ARG:NE	5:6:391:PRO:HG2	2.31	0.45
1:2:613:ASN:O	1:2:617:ARG:HG3	2.17	0.45
1:2:745:LEU:HB3	1:2:749:ARG:CZ	2.47	0.45
1:2:820:PHE:HZ	1:2:840:VAL:HG21	1.82	0.45
3:4:519:TYR:CZ	3:4:538:LYS:HB3	2.51	0.45
3:4:649:MET:HE2	3:4:701:ARG:HG2	1.97	0.45
4:5:390:CYS:HB2	4:5:665:LYS:HZ2	1.81	0.45
5:6:132:VAL:HG12	5:6:134:LYS:N	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:656:MET:HE3	5:6:708:ARG:CB	2.45	0.45
5:6:675:ARG:HG2	5:6:675:ARG:O	2.17	0.45
6:7:281:LEU:HD11	6:7:298:LEU:HB2	1.98	0.45
6:7:459:MET:SD	6:7:569:PRO:HD3	2.57	0.45
7:A:12:GLU:O	7:A:16:THR:HG23	2.17	0.45
8:B:193:ARG:HD3	10:D:225:ASN:ND2	2.32	0.45
11:E:325:TYR:HB2	11:E:406:ARG:NH2	2.30	0.45
12:F:628:VAL:HA	12:F:638:TYR:HA	1.99	0.45
12:G:493:TYR:CE1	12:G:503:SER:HB3	2.51	0.45
12:G:868:ARG:NH1	12:G:872:SER:HB3	2.31	0.45
12:H:582:ALA:O	12:H:589:ILE:N	2.38	0.45
12:H:660:SER:O	12:H:700:SER:HB2	2.16	0.45
12:H:781:PHE:CE1	12:H:825:GLU:HG2	2.51	0.45
15:M:1644:SER:O	15:M:1648:HIS:ND1	2.34	0.45
1:2:348:LEU:H	1:2:376:ASN:HD21	1.65	0.45
1:2:474:PHE:HE2	1:2:561:HIS:HA	1.82	0.45
1:2:503:PRO:HD2	1:2:555:TYR:CZ	2.51	0.45
1:2:824:ARG:HE	1:2:826:SER:HB3	1.82	0.45
2:3:43:ARG:NH1	2:3:136:MET:O	2.49	0.45
2:3:377:ILE:HG13	2:3:547:PHE:CE2	2.52	0.45
2:3:565:VAL:HG11	4:5:660:THR:HG21	1.98	0.45
3:4:349:CYS:HB3	3:4:352:CYS:CB	2.43	0.45
3:4:696:PRO:N	3:4:697:PRO:HD2	2.32	0.45
5:6:308:SER:O	5:6:346:LEU:HD12	2.17	0.45
6:7:234:PHE:HA	6:7:237:GLN:CD	2.42	0.45
6:7:502:VAL:CG2	6:7:509:GLU:HG3	2.47	0.45
6:7:503:THR:O	6:7:504:ASP:C	2.60	0.45
8:B:113:SER:O	8:B:152:ARG:NH2	2.50	0.45
8:B:114:GLU:OE1	8:B:114:GLU:N	2.39	0.45
9:C:166:LEU:HA	9:C:169:LEU:HD12	1.99	0.45
9:C:186:ASP:O	9:C:189:ARG:HG2	2.16	0.45
10:D:247:GLN:O	10:D:255:CYS:N	2.46	0.45
11:E:27:LEU:HA	11:E:80:SER:HB2	1.99	0.45
11:E:87:GLY:HA3	11:E:92:LEU:HD21	1.98	0.45
11:E:271:TRP:NE1	11:E:275:LEU:HD11	2.32	0.45
12:F:913:LYS:O	12:F:917:ILE:HG12	2.16	0.45
12:G:489:THR:OG1	12:G:491:ARG:O	2.29	0.45
12:G:621:GLN:HB3	12:G:624:ARG:H	1.82	0.45
12:G:692:TYR:HE1	12:G:848:TYR:CE2	2.32	0.45
12:H:596:TYR:CD1	12:H:611:LYS:HD3	2.51	0.45
12:H:914:ILE:HA	12:H:917:ILE:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1591:LEU:HD22	15:M:1593:GLN:NE2	2.32	0.45
15:M:1662:ASN:ND2	15:M:1671:ILE:HG13	2.32	0.45
15:M:1944:PHE:O	15:M:2038:PRO:HD2	2.17	0.45
15:M:2192:GLU:HG2	15:M:2193:SER:N	2.32	0.45
16:N:485:PRO:HG3	16:N:507:PRO:HA	1.99	0.45
1:2:323:VAL:HG23	1:2:391:GLN:O	2.17	0.45
1:2:417:VAL:O	1:2:458:ARG:NH2	2.50	0.45
2:3:257:THR:HG22	2:3:259:GLN:NE2	2.32	0.45
3:4:332:VAL:HG21	3:4:397:ILE:CG1	2.43	0.45
3:4:347:PHE:CE2	5:6:440:LEU:HD11	2.52	0.45
3:4:645:LEU:HA	3:4:648:VAL:HG12	1.99	0.45
4:5:158:LYS:C	4:5:297:ILE:HG13	2.42	0.45
5:6:138:ALA:O	5:6:141:GLU:HB3	2.17	0.45
5:6:646:ILE:O	5:6:650:VAL:HG13	2.16	0.45
6:7:367:LYS:HG3	13:I:47:DT:C4	2.52	0.45
6:7:576:PRO:HD2	6:7:577:ARG:NH1	2.32	0.45
6:7:618:TYR:CG	6:7:626:PRO:HA	2.52	0.45
6:7:716:ALA:HA	6:7:719:LEU:HD12	1.99	0.45
7:A:174:ILE:HD12	16:N:32:SER:HB2	1.99	0.45
10:D:5:ILE:HA	12:F:904:ARG:NH1	2.32	0.45
12:F:506:LYS:HB2	12:F:511:TYR:CZ	2.51	0.45
12:F:626:PHE:CE1	12:F:638:TYR:HB2	2.52	0.45
12:G:743:TRP:CG	12:G:764:PRO:HD3	2.52	0.45
12:H:629:HIS:O	12:H:637:SER:N	2.45	0.45
12:H:694:ASP:N	12:H:694:ASP:OD1	2.49	0.45
15:M:2013:LYS:HA	15:M:2016:LYS:HZ3	1.81	0.45
16:N:182:SER:O	16:N:190:PHE:N	2.50	0.45
16:N:297:SER:HA	16:N:306:GLU:HA	1.97	0.45
16:N:404:ALA:HB3	16:N:663:SER:HA	1.99	0.45
16:N:440:SER:O	16:N:488:ASN:ND2	2.49	0.45
1:2:303:ILE:HD12	1:2:319:ARG:HG2	1.99	0.45
1:2:546:GLY:C	18:2:902:ADP:H5'1	2.42	0.45
1:2:557:GLU:OE2	1:2:558:LYS:NZ	2.50	0.45
2:3:27:ARG:HA	2:3:30:GLU:CD	2.42	0.45
2:3:118:PRO:HG3	2:3:179:LEU:H	1.82	0.45
3:4:518:LEU:HD11	3:4:750:TYR:OH	2.17	0.45
4:5:413:LEU:HD11	4:5:550:PHE:CB	2.44	0.45
4:5:595:SER:HB2	4:5:598:LYS:HG3	1.98	0.45
6:7:263:ASP:OD1	6:7:263:ASP:N	2.48	0.45
6:7:441:ASP:OD2	6:7:452:GLY:N	2.47	0.45
6:7:481:VAL:CG2	6:7:483:THR:HG22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:517:ASP:CG	6:7:518:ASN:H	2.25	0.45
8:B:19:ILE:HA	8:B:22:ASN:ND2	2.32	0.45
8:B:23:GLU:O	8:B:73:LEU:N	2.47	0.45
8:B:60:LEU:HD11	8:B:75:ILE:HD12	1.99	0.45
11:E:78:ILE:O	11:E:118:ARG:HG2	2.17	0.45
11:E:251:ILE:HA	11:E:254:GLN:NE2	2.31	0.45
11:E:348:LEU:HA	11:E:358:ARG:NH2	2.32	0.45
11:E:636:ASP:C	11:E:639:PRO:HD2	2.42	0.45
12:F:612:THR:HB	12:F:629:HIS:CE1	2.52	0.45
12:G:474:PHE:CZ	12:G:681:PRO:HB2	2.52	0.45
12:H:514:THR:HA	12:H:527:HIS:HB3	1.98	0.45
12:H:622:ASN:OD1	12:H:623:TYR:N	2.49	0.45
12:H:831:LYS:HB2	12:H:862:TYR:HE1	1.82	0.45
15:M:1574:SER:O	15:M:1577:THR:OG1	2.26	0.45
15:M:2063:LEU:HA	15:M:2072:ILE:HD13	1.98	0.45
16:N:295:ASN:OD1	16:N:296:TRP:N	2.49	0.45
16:N:311:GLN:HE21	16:N:340:HIS:HB3	1.82	0.45
1:2:327:ARG:H	1:2:388:VAL:HG12	1.81	0.44
1:2:539:VAL:HA	1:2:679:ILE:HB	1.99	0.44
2:3:412:SER:HA	18:3:1001:ADP:C5'	2.38	0.44
2:3:563:GLU:C	2:3:567:ARG:HE	2.23	0.44
3:4:349:CYS:SG	3:4:354:HIS:HB3	2.57	0.44
4:5:31:PHE:O	4:5:34:PHE:HB3	2.16	0.44
4:5:653:LEU:HA	4:5:656:ILE:HG12	1.99	0.44
4:5:772:ARG:H	15:M:2188:THR:H	1.64	0.44
5:6:144:LYS:HG2	5:6:196:LEU:HD12	1.99	0.44
5:6:407:VAL:HG23	5:6:408:THR:HG23	1.97	0.44
5:6:731:ILE:HG12	5:6:731:ILE:H	1.41	0.44
6:7:30:GLN:NE2	6:7:62:LYS:HA	2.32	0.44
6:7:458:LEU:H	6:7:565:ALA:HB3	1.81	0.44
6:7:480:GLY:CA	6:7:520:ILE:HB	2.17	0.44
7:A:196:VAL:O	7:A:200:ILE:HG12	2.16	0.44
8:B:53:ILE:O	10:D:56:PRO:HB2	2.17	0.44
9:C:18:CYS:HB2	9:C:46:LEU:HD12	1.98	0.44
10:D:140:ILE:O	10:D:144:ILE:HG12	2.17	0.44
11:E:127:ARG:HG2	11:E:246:THR:O	2.17	0.44
12:F:695:PRO:HD2	12:F:707:LEU:HB3	2.00	0.44
12:F:837:LEU:O	12:F:840:THR:OG1	2.29	0.44
12:G:708:SER:HB2	12:G:717:LYS:HG3	1.98	0.44
12:H:671:ASP:OD1	12:H:672:ALA:N	2.50	0.44
12:H:899:VAL:HG22	12:H:914:ILE:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1878:CYS:HA	15:M:1881:TYR:HB3	1.99	0.44
16:N:34:LYS:HB2	16:N:76:GLY:O	2.17	0.44
16:N:233:GLU:O	16:N:265:SER:N	2.49	0.44
1:2:458:ARG:N	1:2:470:GLY:O	2.50	0.44
1:2:482:ARG:HA	1:2:485:ARG:NE	2.32	0.44
1:2:703:HIS:HB3	1:2:707:HIS:HE1	1.82	0.44
2:3:104:ARG:HB2	2:3:111:TRP:CD2	2.52	0.44
2:3:347:ILE:HG12	2:3:662:TYR:CE2	2.51	0.44
3:4:912:GLN:HG2	5:6:696:ARG:HE	1.82	0.44
4:5:450:THR:O	4:5:470:VAL:HG23	2.18	0.44
4:5:562:GLU:OE1	4:5:562:GLU:N	2.39	0.44
5:6:384:ASP:N	5:6:384:ASP:OD1	2.47	0.44
5:6:574:VAL:HG12	5:6:682:ALA:HB3	1.99	0.44
6:7:414:LEU:HB3	6:7:433:LEU:CD1	2.47	0.44
6:7:415:ALA:H	6:7:433:LEU:HD11	1.82	0.44
10:D:83:LEU:O	10:D:87:LEU:HG	2.17	0.44
11:E:64:TYR:CZ	11:E:625:PHE:HA	2.53	0.44
11:E:127:ARG:HG2	11:E:246:THR:C	2.42	0.44
11:E:276:GLY:O	11:E:279:SER:OG	2.26	0.44
12:F:536:LEU:HD22	12:F:580:SER:HA	1.99	0.44
12:F:651:TYR:CE1	12:F:711:ARG:HA	2.52	0.44
12:F:707:LEU:HB2	12:F:718:TRP:CZ2	2.52	0.44
12:F:741:HIS:CG	12:F:762:ILE:HA	2.52	0.44
12:G:543:GLY:HA2	12:G:558:PRO:HA	1.98	0.44
12:G:621:GLN:HG2	12:G:622:ASN:N	2.33	0.44
12:G:624:ARG:HH12	12:G:711:ARG:HH21	1.65	0.44
15:M:1563:PHE:CZ	15:M:1572:ARG:HD2	2.52	0.44
15:M:1721:ILE:O	15:M:1861:ALA:N	2.48	0.44
15:M:1732:LEU:HB3	15:M:1904:ARG:HB2	1.99	0.44
1:2:324:VAL:O	1:2:421:GLY:N	2.39	0.44
1:2:632:SER:HA	1:2:637:VAL:HA	2.00	0.44
1:2:680:LEU:HD11	1:2:844:SER:O	2.18	0.44
2:3:36:THR:HA	2:3:39:ARG:NE	2.27	0.44
2:3:204:ALA:O	6:7:14:TYR:OH	2.19	0.44
2:3:446:VAL:O	2:3:455:ARG:HG3	2.17	0.44
2:3:493:GLN:OE1	2:3:509:ARG:HA	2.17	0.44
3:4:434:GLU:OE1	3:4:434:GLU:N	2.50	0.44
3:4:561:ASP:O	3:4:803:ARG:HD2	2.17	0.44
3:4:646:HIS:CE1	3:4:698:LEU:HG	2.53	0.44
4:5:259:GLN:HG2	4:5:271:PRO:HB2	1.99	0.44
4:5:553:ILE:H	4:5:658:ARG:HH22	1.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:666:LEU:HD23	4:5:669:SER:H	1.81	0.44
4:5:731:GLN:O	4:5:735:ARG:HG2	2.17	0.44
5:6:326:LYS:HB2	5:6:410:LEU:HD23	1.99	0.44
5:6:735:HIS:HA	5:6:739:ASP:OD2	2.18	0.44
6:7:245:ILE:HD11	6:7:344:SER:O	2.17	0.44
6:7:291:GLN:O	6:7:292:ASN:OD1	2.36	0.44
8:B:8:GLN:NE2	8:B:9:GLN:HG3	2.33	0.44
10:D:69:ASN:O	10:D:73:SER:N	2.44	0.44
10:D:233:ASN:H	10:D:291:VAL:HA	1.82	0.44
11:E:131:LEU:O	11:E:135:PHE:N	2.33	0.44
11:E:305:SER:HB3	12:F:766:PHE:HD2	1.83	0.44
11:E:488:LYS:HB3	11:E:491:LEU:HB3	2.00	0.44
12:G:538:PHE:O	12:G:545:LEU:N	2.31	0.44
12:G:673:ASN:OD1	12:G:674:LEU:N	2.50	0.44
15:M:1336:LEU:HD22	15:M:1435:GLN:HA	2.00	0.44
15:M:1542:LYS:O	15:M:1545:THR:OG1	2.31	0.44
15:M:1730:VAL:O	15:M:1906:TRP:N	2.39	0.44
15:M:2156:SER:HA	15:M:2159:ILE:HG12	1.97	0.44
15:M:2211:ASP:OD1	15:M:2211:ASP:N	2.49	0.44
16:N:45:VAL:HG13	16:N:52:ASN:HB3	1.99	0.44
16:N:225:THR:HA	16:N:228:ARG:NE	2.32	0.44
1:2:386:GLN:O	1:2:410:LEU:N	2.29	0.44
1:2:418:SER:HA	1:2:458:ARG:HH22	1.83	0.44
1:2:820:PHE:HB3	1:2:833:ASP:OD1	2.18	0.44
2:3:22:GLY:O	2:3:26:ARG:HG3	2.18	0.44
2:3:412:SER:CA	18:3:1001:ADP:H5'1	2.39	0.44
3:4:213:GLU:CD	3:4:213:GLU:H	2.26	0.44
3:4:260:GLN:HB3	3:4:264:TYR:CZ	2.53	0.44
3:4:703:ASP:HB2	3:4:803:ARG:NH1	2.32	0.44
3:4:713:ASP:OD1	3:4:714:GLU:N	2.48	0.44
3:4:724:LEU:O	3:4:728:TYR:N	2.41	0.44
3:4:820:GLU:O	3:4:823:GLN:HG3	2.16	0.44
4:5:145:GLN:HA	4:5:161:ARG:O	2.18	0.44
4:5:368:GLU:OE1	4:5:368:GLU:N	2.49	0.44
4:5:487:ASP:HA	4:5:490:ARG:NE	2.32	0.44
4:5:775:VAL:O	15:M:2190:PRO:HD2	2.17	0.44
5:6:633:ASN:HA	5:6:675:ARG:O	2.16	0.44
5:6:695:LEU:HD21	5:6:712:PHE:HB2	1.99	0.44
5:6:751:LEU:HA	5:6:754:TYR:CE1	2.52	0.44
5:6:773:LEU:HA	5:6:824:ILE:HG21	1.98	0.44
6:7:458:LEU:HD23	6:7:458:LEU:HA	1.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:66:GLU:HA	11:E:69:ARG:NE	2.32	0.44
11:E:290:ARG:HH21	11:E:291:LEU:HD21	1.82	0.44
11:E:343:TYR:CE1	11:E:590:ARG:HB2	2.51	0.44
12:F:498:GLU:HA	12:F:745:LEU:HD12	1.99	0.44
12:F:695:PRO:HG2	12:F:707:LEU:HD23	2.00	0.44
12:F:862:TYR:HD2	12:F:890:LYS:HZ1	1.65	0.44
12:F:895:LEU:HB2	12:F:918:ARG:NH1	2.29	0.44
12:G:628:VAL:HG12	12:G:636:LEU:HD11	1.98	0.44
12:H:711:ARG:HG2	12:H:843:ASN:CG	2.43	0.44
12:H:840:THR:O	12:H:844:ASP:N	2.46	0.44
12:H:864:LYS:NZ	12:H:893:ARG:HH22	2.16	0.44
15:M:1385:ASN:ND2	15:M:1387:PRO:HD2	2.32	0.44
15:M:1651:LYS:HG3	15:M:1808:THR:HG21	2.00	0.44
15:M:2003:PHE:O	15:M:2007:PHE:HD1	2.00	0.44
15:M:2047:VAL:HG22	15:M:2050:PRO:HD3	1.99	0.44
15:M:2111:CYS:HB2	15:M:2132:ARG:HD2	1.98	0.44
1:2:195:SER:O	1:2:199:THR:OG1	2.28	0.44
1:2:305:SER:H	1:2:308:GLU:HB2	1.82	0.44
1:2:500:SER:O	1:2:503:PRO:HD3	2.18	0.44
2:3:496:THR:HG23	2:3:498:ALA:H	1.82	0.44
3:4:758:ILE:HG23	3:4:815:ASN:HA	1.98	0.44
3:4:879:ASP:HB2	3:4:925:ARG:HD2	2.00	0.44
4:5:82:GLU:O	4:5:86:ILE:HG12	2.17	0.44
4:5:291:ARG:O	4:5:337:VAL:HG22	2.18	0.44
5:6:177:PHE:O	5:6:178:LEU:HB2	2.18	0.44
5:6:382:ARG:O	5:6:386:VAL:HG23	2.16	0.44
6:7:25:LEU:HA	6:7:63:TYR:CD2	2.53	0.44
6:7:203:TYR:CE2	6:7:339:LEU:HD23	2.52	0.44
7:A:1:MET:HG3	7:A:2:TYR:N	2.33	0.44
8:B:14:GLU:H	8:B:14:GLU:CD	2.26	0.44
8:B:131:LYS:HA	8:B:134:PHE:CE2	2.52	0.44
9:C:12:ASP:HA	9:C:48:LEU:HD22	1.99	0.44
11:E:248:VAL:HA	11:E:287:VAL:HG21	1.98	0.44
11:E:346:ALA:HB2	11:E:554:GLU:HG3	1.99	0.44
12:F:543:GLY:HA2	12:F:559:HIS:N	2.33	0.44
12:F:546:PHE:HB2	12:F:555:GLN:HB3	1.99	0.44
12:H:640:LEU:HD21	12:H:710:TRP:HE3	1.82	0.44
12:H:880:GLU:HA	12:H:883:LEU:HG	1.99	0.44
15:M:1724:SER:HB2	15:M:2064:LEU:HD22	1.99	0.44
15:M:1892:ASN:HB2	15:M:1893:PRO:HD3	1.98	0.44
16:N:312:THR:O	16:N:559:PHE:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:432:ASN:CG	1:2:447:PHE:HD2	2.26	0.44
1:2:617:ARG:NH1	1:2:670:THR:HG23	2.29	0.44
2:3:51:ASN:OD1	2:3:52:ASN:N	2.51	0.44
2:3:497:ILE:HB	2:3:504:THR:O	2.18	0.44
3:4:198:LEU:HD23	3:4:279:CYS:SG	2.58	0.44
3:4:207:LYS:HD2	3:4:216:ILE:HG22	1.99	0.44
3:4:445:ARG:CZ	5:6:419:SER:HB3	2.48	0.44
3:4:767:LYS:HD3	5:6:738:ARG:CZ	2.47	0.44
4:5:434:PRO:HD2	4:5:600:LYS:HE2	1.98	0.44
5:6:529:LEU:HB2	5:6:548:LEU:HD12	1.99	0.44
5:6:581:LYS:NZ	5:6:681:ALA:HB1	2.32	0.44
6:7:140:ASP:O	6:7:144:ASN:N	2.51	0.44
6:7:313:CYS:N	6:7:333:ILE:O	2.48	0.44
6:7:410:VAL:CG2	6:7:414:LEU:HB2	2.47	0.44
8:B:110:ASP:N	8:B:110:ASP:OD1	2.51	0.44
10:D:5:ILE:O	10:D:9:LEU:N	2.42	0.44
12:F:507:ASN:O	12:F:508:SER:OG	2.34	0.44
12:G:629:HIS:O	12:G:637:SER:N	2.29	0.44
12:H:582:ALA:N	12:H:589:ILE:O	2.35	0.44
12:H:597:PHE:CD1	12:H:610:GLU:HB3	2.52	0.44
12:H:626:PHE:HZ	12:H:638:TYR:HB2	1.83	0.44
16:N:400:VAL:HG22	16:N:674:GLU:HG2	2.00	0.44
16:N:484:ILE:HD12	16:N:528:ASN:HA	1.99	0.44
1:2:672:PRO:O	1:2:675:SER:OG	2.24	0.44
2:3:118:PRO:HG3	2:3:179:LEU:N	2.32	0.44
2:3:256:ILE:O	2:3:276:VAL:N	2.46	0.44
2:3:446:VAL:HG11	2:3:500:ALA:HB3	2.00	0.44
3:4:354:HIS:CD2	3:4:373:ARG:HB2	2.53	0.44
3:4:378:GLU:O	3:4:381:SER:OG	2.28	0.44
3:4:382:MET:HE3	5:6:441:ARG:CZ	2.47	0.44
3:4:382:MET:HE3	5:6:441:ARG:NH2	2.33	0.44
3:4:391:PHE:CE1	5:6:403:VAL:HG21	2.52	0.44
3:4:567:CYS:HB3	3:4:708:VAL:N	2.33	0.44
3:4:587:ARG:HB2	3:4:627:GLY:HA3	1.99	0.44
4:5:145:GLN:NE2	4:5:162:LEU:O	2.51	0.44
4:5:256:LEU:HB3	4:5:276:MET:HE2	1.99	0.44
4:5:383:ASP:OD1	4:5:383:ASP:N	2.49	0.44
4:5:719:LYS:NZ	4:5:755:LEU:HD22	2.33	0.44
5:6:797:VAL:O	5:6:801:GLU:HG3	2.17	0.44
6:7:468:GLN:CB	20:7:903:AGS:H5'1	2.46	0.44
6:7:690:LEU:HG	6:7:694:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:726:SER:O	6:7:729:GLN:HG2	2.18	0.44
8:B:114:GLU:H	8:B:114:GLU:CD	2.22	0.44
11:E:404:ILE:H	11:E:404:ILE:HD12	1.83	0.44
11:E:517:LYS:NZ	11:E:519:ILE:O	2.50	0.44
12:F:539:LEU:HA	12:F:544:THR:HA	2.00	0.44
12:F:752:LEU:N	12:F:774:MET:O	2.50	0.44
12:G:534:TYR:CZ	12:G:555:GLN:HB2	2.53	0.44
12:H:587:ARG:HG3	12:H:607:PHE:HD2	1.83	0.44
12:H:661:LEU:HD12	12:H:662:PRO:HD2	1.98	0.44
12:H:755:ILE:HD11	12:H:764:PRO:HG3	2.00	0.44
15:M:2130:CYS:HB3	15:M:2137:PHE:CE2	2.53	0.44
16:N:222:TYR:HA	16:N:325:MET:HE3	2.00	0.44
1:2:306:LEU:HB2	1:2:392:GLU:HG3	2.00	0.44
1:2:484:PHE:HE1	1:2:762:LEU:HG	1.83	0.44
2:3:454:GLU:HG2	2:3:456:ARG:NH1	2.23	0.44
3:4:767:LYS:HD3	5:6:738:ARG:NE	2.32	0.44
5:6:396:LYS:HB3	5:6:462:ILE:HD13	2.00	0.44
5:6:525:ILE:HG21	5:6:814:ASN:OD1	2.17	0.44
5:6:585:LEU:HB3	5:6:597:TYR:HE1	1.82	0.44
5:6:641:PHE:H	5:6:682:ALA:HA	1.83	0.44
5:6:793:TYR:CD2	5:6:794:ARG:HG3	2.52	0.44
6:7:302:THR:HB	6:7:307:PHE:HZ	1.82	0.44
6:7:324:VAL:O	6:7:326:HIS:ND1	2.50	0.44
6:7:584:ILE:HG22	6:7:586:LEU:H	1.82	0.44
7:A:57:GLN:HB3	7:A:62:MET:HE3	2.00	0.44
10:D:253:LYS:NZ	10:D:271:ILE:H	2.08	0.44
11:E:385:LYS:HA	11:E:388:LEU:HG	2.00	0.44
12:F:516:SER:HA	12:F:525:GLU:HG2	2.00	0.44
12:G:617:ALA:HB1	12:G:687:LEU:HD22	1.99	0.44
12:G:629:HIS:HB2	12:G:637:SER:OG	2.18	0.44
12:G:688:PHE:HE2	12:G:747:LEU:HB2	1.83	0.44
12:G:723:ASP:OD1	12:G:723:ASP:N	2.46	0.44
12:G:837:LEU:O	12:G:841:LEU:HD23	2.18	0.44
12:H:555:GLN:HE22	12:H:557:ARG:HG2	1.83	0.44
12:H:892:ASP:O	12:H:896:THR:HG23	2.17	0.44
12:H:921:ARG:O	12:H:924:GLN:NE2	2.43	0.44
15:M:1533:LYS:O	15:M:1536:PHE:HB3	2.18	0.44
15:M:1542:LYS:HB3	15:M:1546:TYR:CE2	2.53	0.44
15:M:1727:TYR:HB3	15:M:1869:LYS:HD3	2.00	0.44
15:M:1939:TRP:HB3	15:M:1942:LYS:HB3	1.96	0.44
1:2:297:ILE:HG12	1:2:454:ASN:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:320:VAL:HG22	1:2:321:THR:N	2.32	0.44
1:2:786:VAL:HG13	1:2:810:LEU:HD11	2.00	0.44
2:3:260:GLU:HG2	2:3:271:PRO:HA	1.99	0.44
2:3:661:GLN:O	2:3:665:GLU:HG3	2.18	0.44
3:4:245:ALA:HB2	3:4:308:VAL:HA	2.00	0.44
3:4:359:GLU:C	5:6:437:VAL:HG12	2.43	0.44
3:4:746:PHE:CE1	3:4:750:TYR:HB2	2.53	0.44
4:5:182:MET:SD	4:5:184:ARG:N	2.90	0.44
4:5:366:LEU:HD13	4:5:369:ILE:HG13	1.99	0.44
4:5:430:GLU:OE2	4:5:477:VAL:HA	2.18	0.44
4:5:524:ASN:ND2	20:5:803:AGS:O2G	2.48	0.44
4:5:620:GLU:HG2	4:5:621:LYS:N	2.33	0.44
5:6:509:SER:OG	5:6:511:ASP:OD1	2.21	0.44
5:6:657:GLU:HG2	5:6:708:ARG:NE	2.33	0.44
6:7:29:LYS:HE2	6:7:29:LYS:HB2	1.81	0.44
6:7:350:ASP:N	6:7:382:ARG:O	2.43	0.44
6:7:470:LEU:CD2	6:7:482:TYR:HE1	2.26	0.44
7:A:69:LYS:HD3	7:A:69:LYS:HA	1.55	0.44
11:E:108:ASP:OD1	11:E:111:SER:OG	2.34	0.44
11:E:559:SER:OG	11:E:559:SER:O	2.35	0.44
12:F:485:PRO:HD2	12:F:763:TRP:HB3	2.00	0.44
12:F:626:PHE:CE2	12:F:687:LEU:HD21	2.53	0.44
12:G:621:GLN:HE22	12:G:624:ARG:HH21	1.66	0.44
12:G:624:ARG:NH1	12:G:711:ARG:HH21	2.14	0.44
12:G:824:GLU:HA	12:G:827:TYR:HE1	1.83	0.44
12:H:729:TRP:CE2	12:H:734:GLY:HA2	2.53	0.44
12:H:864:LYS:HG3	12:H:867:LEU:HD12	1.99	0.44
12:H:914:ILE:HD13	12:H:917:ILE:HD11	2.00	0.44
15:M:1563:PHE:CE2	15:M:1572:ARG:HD2	2.53	0.44
15:M:1730:VAL:HB	15:M:1906:TRP:HB2	1.99	0.44
15:M:2041:PRO:HB2	15:M:2120:CYS:SG	2.57	0.44
15:M:2123:ALA:O	15:M:2127:ILE:HD12	2.17	0.44
15:M:2144:GLU:OE2	16:N:453:SER:OG	2.32	0.44
16:N:184:ASN:HB3	16:N:187:LYS:O	2.18	0.44
1:2:178:ARG:CZ	1:2:205:ARG:HB2	2.48	0.43
1:2:194:TYR:OH	1:2:259:PHE:HA	2.18	0.43
1:2:264:PRO:O	1:2:268:LEU:HG	2.17	0.43
2:3:652:THR:OG1	2:3:655:PHE:HB3	2.18	0.43
2:3:697:ILE:HB	2:3:701:THR:HG21	1.99	0.43
5:6:294:VAL:HG23	5:6:360:ARG:O	2.17	0.43
5:6:409:GLN:NE2	5:6:449:THR:HG22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:547:ILE:O	5:6:551:MET:HG2	2.17	0.43
5:6:628:LEU:HA	5:6:631:ALA:HB3	2.00	0.43
5:6:738:ARG:O	5:6:739:ASP:C	2.61	0.43
8:B:3:LEU:HD12	8:B:4:PRO:HD2	2.00	0.43
8:B:188:ILE:O	8:B:192:LEU:HG	2.18	0.43
9:C:170:GLU:N	9:C:173:GLU:OE1	2.41	0.43
10:D:293:LEU:HA	10:D:293:LEU:HD23	1.76	0.43
11:E:71:TYR:HA	11:E:74:LEU:HG	2.00	0.43
11:E:436:ASN:N	11:E:476:ASN:OD1	2.51	0.43
11:E:493:ASN:HB2	11:E:494:ARG:HH12	1.83	0.43
11:E:506:ILE:HG23	11:E:548:LEU:HD13	2.00	0.43
11:E:553:ILE:HD11	11:E:584:LEU:HB3	1.98	0.43
12:F:495:THR:O	12:F:496:MET:HE2	2.18	0.43
12:F:570:ILE:HD11	12:F:598:ARG:HD2	2.00	0.43
12:F:572:LEU:HB2	12:F:576:GLU:HB3	2.00	0.43
12:G:642:GLU:OE1	12:G:651:TYR:N	2.50	0.43
12:G:910:LEU:O	12:G:914:ILE:HG12	2.18	0.43
16:N:354:ILE:HA	16:N:357:GLU:CD	2.42	0.43
2:3:31:PHE:HB2	2:3:106:PHE:CZ	2.53	0.43
2:3:415:LYS:HG2	18:3:1001:ADP:O2B	2.18	0.43
2:3:670:GLN:NE2	6:7:621:MET:HB3	2.33	0.43
3:4:564:ILE:HG12	3:4:704:LEU:HB3	2.00	0.43
4:5:574:ASN:HB3	4:5:584:GLN:CD	2.43	0.43
4:5:609:LYS:O	4:5:612:PRO:HD2	2.18	0.43
5:6:173:GLN:NE2	5:6:176:ARG:HA	2.33	0.43
6:7:574:TYR:CE1	6:7:580:PRO:HA	2.53	0.43
11:E:101:GLN:HA	11:E:104:VAL:HG12	2.00	0.43
11:E:103:TYR:HB3	11:E:116:PHE:CD1	2.53	0.43
11:E:328:LEU:HD21	11:E:496:ILE:HG12	1.99	0.43
12:H:501:TYR:O	12:H:516:SER:HB2	2.18	0.43
12:H:639:SER:CB	12:H:654:GLU:H	2.29	0.43
15:M:1340:VAL:CB	15:M:1348:ASN:HD22	2.31	0.43
15:M:1519:GLN:HB3	15:M:1521:GLN:NE2	2.33	0.43
16:N:322:PRO:HD3	16:N:555:LEU:HD21	2.00	0.43
1:2:205:ARG:NH1	1:2:209:ARG:HB2	2.32	0.43
1:2:429:ILE:H	1:2:429:ILE:HD12	1.83	0.43
1:2:475:SER:O	1:2:765:LYS:HE2	2.19	0.43
2:3:31:PHE:HB2	2:3:106:PHE:HZ	1.82	0.43
2:3:154:LYS:HE2	2:3:154:LYS:HB2	1.82	0.43
2:3:367:LEU:HD11	2:3:382:LEU:HB2	2.00	0.43
2:3:412:SER:H	4:5:549:ARG:NH2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:446:VAL:HG12	2:3:455:ARG:HD3	2.00	0.43
2:3:684:THR:HG22	6:7:610:GLU:HG3	2.00	0.43
3:4:312:LYS:HG3	3:4:316:GLU:HG2	1.99	0.43
3:4:315:ARG:HH12	3:4:401:GLU:CD	2.26	0.43
4:5:237:GLY:O	4:5:240:PRO:HD3	2.18	0.43
4:5:369:ILE:CG2	4:5:592:SER:HA	2.47	0.43
4:5:380:GLY:O	4:5:385:LYS:HD2	2.18	0.43
4:5:411:ASN:CG	4:5:519:VAL:H	2.26	0.43
4:5:618:ALA:HB2	4:5:674:GLU:OE1	2.18	0.43
5:6:118:PHE:HZ	5:6:158:LEU:HA	1.84	0.43
5:6:801:GLU:C	5:6:805:ARG:HE	2.23	0.43
6:7:486:LYS:CG	6:7:529:MET:HA	2.48	0.43
7:A:177:GLU:HG3	16:N:27:ARG:HH22	1.83	0.43
8:B:2:SER:O	10:D:145:ARG:HB3	2.18	0.43
11:E:299:VAL:O	11:E:303:THR:N	2.52	0.43
11:E:622:ILE:HD11	11:E:627:SER:HA	2.00	0.43
12:F:542:LYS:O	12:F:559:HIS:N	2.44	0.43
12:F:723:ASP:HB2	12:F:726:MET:HB3	2.00	0.43
12:G:548:GLN:HB3	12:G:551:THR:HG1	1.83	0.43
15:M:1484:ILE:HG21	15:M:1591:LEU:HG	2.00	0.43
15:M:1945:LEU:HD23	15:M:1950:GLN:CA	2.36	0.43
1:2:232:ARG:HB2	1:2:283:TYR:CE1	2.53	0.43
1:2:491:ARG:NE	1:2:491:ARG:HA	2.32	0.43
1:2:552:ILE:O	1:2:556:VAL:HG23	2.19	0.43
2:3:104:ARG:NH1	9:C:86:ASN:O	2.47	0.43
2:3:212:ARG:NH1	2:3:231:TYR:H	2.14	0.43
2:3:414:ALA:HA	2:3:417:GLN:HG2	2.01	0.43
2:3:683:TYR:CE2	6:7:609:ASP:HB2	2.52	0.43
3:4:536:VAL:O	3:4:540:ILE:HG13	2.18	0.43
4:5:610:CYS:SG	4:5:667:GLU:HG3	2.59	0.43
4:5:666:LEU:HD23	4:5:669:SER:N	2.33	0.43
6:7:25:LEU:O	6:7:63:TYR:HB2	2.17	0.43
6:7:30:GLN:O	6:7:34:SER:N	2.44	0.43
6:7:109:ASN:O	6:7:113:PHE:HD2	2.01	0.43
7:A:4:ASP:CG	7:A:8:LYS:HZ2	2.26	0.43
7:A:162:PHE:HE1	11:E:55:GLN:HE21	1.65	0.43
8:B:37:ILE:HB	8:B:38:ARG:HH11	1.83	0.43
10:D:249:ASN:HB3	10:D:253:LYS:HB3	2.01	0.43
11:E:154:GLU:O	11:E:157:GLU:HG3	2.19	0.43
11:E:304:PRO:O	11:E:307:ARG:NH1	2.51	0.43
11:E:403:ASP:OD1	11:E:403:ASP:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:E:407:ASP:OD1	11:E:408:GLY:N	2.51	0.43
12:G:688:PHE:O	12:G:696:CYS:HB2	2.18	0.43
12:G:785:LYS:HZ1	12:G:821:MET:HE2	1.83	0.43
15:M:1361:PHE:CE2	15:M:1364:GLN:HB2	2.53	0.43
15:M:1665:LEU:CD1	16:N:450:ARG:HB2	2.48	0.43
1:2:477:THR:H	1:2:765:LYS:HD3	1.83	0.43
1:2:574:VAL:O	1:2:579:SER:OG	2.28	0.43
2:3:202:TYR:HB3	2:3:244:GLU:CD	2.44	0.43
2:3:363:LEU:O	2:3:367:LEU:HG	2.18	0.43
2:3:415:LYS:HB3	18:3:1001:ADP:O3B	2.18	0.43
3:4:569:ASP:HB2	3:4:570:PRO:HD2	2.00	0.43
3:4:634:PHE:HA	3:4:637:MET:SD	2.58	0.43
3:4:748:THR:O	3:4:751:ILE:HG22	2.18	0.43
4:5:51:ARG:HH12	9:C:142:LEU:N	2.16	0.43
4:5:84:SER:O	4:5:197:PHE:HB3	2.18	0.43
4:5:149:ARG:HA	4:5:272:ARG:NH1	2.34	0.43
5:6:118:PHE:HB3	5:6:161:ARG:NH1	2.33	0.43
5:6:123:SER:H	5:6:132:VAL:CG2	2.32	0.43
5:6:140:ILE:O	5:6:143:MET:HB2	2.18	0.43
5:6:310:THR:N	5:6:345:THR:O	2.46	0.43
5:6:571:ILE:O	5:6:679:LEU:HA	2.18	0.43
5:6:722:LYS:HG3	5:6:723:ILE:N	2.33	0.43
6:7:320:GLN:NE2	6:7:321:GLN:HG3	2.33	0.43
7:A:33:HIS:O	7:A:37:ILE:HG12	2.19	0.43
7:A:35:ASP:OD1	7:A:35:ASP:N	2.52	0.43
7:A:166:ARG:HB3	7:A:206:GLN:NE2	2.30	0.43
11:E:40:CYS:O	11:E:44:MET:HG2	2.18	0.43
12:F:824:GLU:HA	12:F:827:TYR:HE1	1.81	0.43
12:G:775:GLU:HB3	12:G:777:ARG:NH1	2.33	0.43
15:M:1674:VAL:O	15:M:1678:ARG:HG3	2.18	0.43
15:M:1861:ALA:HA	15:M:1866:ILE:HD12	2.01	0.43
15:M:1945:LEU:O	15:M:2038:PRO:HD2	2.18	0.43
1:2:307:ARG:NH1	1:2:392:GLU:OE1	2.51	0.43
1:2:327:ARG:NH1	1:2:386:GLN:HE22	2.15	0.43
1:2:447:PHE:O	5:6:302:PRO:HG2	2.18	0.43
1:2:776:PRO:HB2	1:2:829:VAL:HG22	2.00	0.43
2:3:117:GLU:HB2	2:3:120:TYR:CD2	2.54	0.43
2:3:457:LEU:HD11	2:3:502:ILE:HG21	1.99	0.43
2:3:486:ILE:HG23	2:3:490:MET:HG3	2.00	0.43
3:4:563:ASN:H	3:4:703:ASP:HB2	1.82	0.43
4:5:258:LEU:HG	4:5:276:MET:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:775:VAL:N	15:M:2190:PRO:HD2	2.33	0.43
6:7:234:PHE:HA	6:7:237:GLN:NE2	2.33	0.43
6:7:660:VAL:HB	6:7:689:LEU:HD11	2.01	0.43
7:A:73:PHE:O	7:A:76:LEU:HB2	2.18	0.43
8:B:193:ARG:HH21	10:D:226:LYS:HA	1.83	0.43
9:C:54:LEU:HA	9:C:57:VAL:HG22	2.00	0.43
10:D:211:ASP:HB3	10:D:218:MET:HE1	2.00	0.43
11:E:3:TYR:OH	11:E:141:GLN:HG2	2.19	0.43
11:E:91:ASP:HA	11:E:133:ASN:CG	2.44	0.43
11:E:557:ALA:HB1	11:E:589:PRO:HG3	1.99	0.43
12:F:577:ARG:O	12:F:592:THR:OG1	2.23	0.43
12:F:621:GLN:N	12:F:624:ARG:O	2.49	0.43
12:F:751:THR:HG22	12:F:775:GLU:HA	2.00	0.43
12:G:914:ILE:O	12:G:917:ILE:HG22	2.18	0.43
15:M:1359:MET:O	15:M:1418:PHE:CZ	2.71	0.43
15:M:1937:SER:HB2	15:M:1939:TRP:NE1	2.33	0.43
15:M:1938:GLN:O	15:M:1943:LYS:HE3	2.19	0.43
15:M:2041:PRO:HD3	15:M:2207:TYR:CE2	2.53	0.43
2:3:111:TRP:HA	2:3:114:ILE:HD12	1.99	0.43
2:3:353:LEU:HB3	2:3:359:ILE:HD13	2.01	0.43
2:3:711:ALA:O	2:3:715:VAL:HG23	2.19	0.43
3:4:367:GLU:HB2	5:6:441:ARG:HB3	2.01	0.43
3:4:526:ILE:HG13	3:4:584:ILE:HD11	2.01	0.43
4:5:377:SER:HA	4:5:571:HIS:CE1	2.53	0.43
4:5:423:SER:H	20:5:803:AGS:PB	2.42	0.43
4:5:498:GLU:HG2	4:5:549:ARG:HH11	1.84	0.43
5:6:142:PHE:HA	5:6:145:ILE:HD13	2.00	0.43
5:6:388:ARG:HH11	5:6:459:VAL:H	1.67	0.43
6:7:501:PRO:HD3	6:7:506:MET:HE1	2.01	0.43
8:B:138:ILE:O	8:B:142:ARG:HG3	2.18	0.43
9:C:18:CYS:SG	9:C:46:LEU:HB2	2.59	0.43
10:D:154:PHE:HB3	10:D:157:TYR:HB3	2.01	0.43
10:D:245:LEU:HB2	10:D:256:TYR:HE1	1.83	0.43
11:E:47:LEU:O	11:E:50:LYS:HG2	2.18	0.43
11:E:328:LEU:HD11	11:E:496:ILE:HG23	2.00	0.43
12:F:600:PHE:HA	12:F:606:PRO:HA	2.00	0.43
12:F:747:LEU:HD12	12:F:752:LEU:HA	2.01	0.43
12:G:543:GLY:HA2	12:G:559:HIS:N	2.30	0.43
12:G:636:LEU:HB3	12:H:634:HIS:NE2	2.34	0.43
15:M:1512:LEU:HD11	15:M:1569:LEU:CB	2.49	0.43
15:M:1527:SER:O	15:M:1530:GLN:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1593:GLN:HB3	15:M:1615:LEU:H	1.83	0.43
16:N:25:LEU:HD23	16:N:31:LEU:HD23	2.00	0.43
16:N:398:LYS:HB3	16:N:429:PRO:HA	2.01	0.43
16:N:452:ILE:HG23	16:N:457:GLN:HE22	1.84	0.43
1:2:808:ARG:NH2	20:5:803:AGS:S1G	2.92	0.43
2:3:102:ASP:C	2:3:104:ARG:H	2.26	0.43
3:4:188:GLN:OE1	3:4:195:ARG:NH2	2.49	0.43
3:4:336:THR:HG22	3:4:396:VAL:O	2.19	0.43
4:5:534:LYS:HD2	4:5:534:LYS:HA	1.85	0.43
4:5:718:LEU:HD23	4:5:721:ARG:HH22	1.83	0.43
5:6:156:GLN:O	5:6:159:SER:OG	2.32	0.43
5:6:178:LEU:O	5:6:181:LEU:HG	2.18	0.43
5:6:187:ARG:HB3	5:6:191:LYS:NZ	2.34	0.43
5:6:313:MET:HE3	5:6:340:ASN:ND2	2.34	0.43
6:7:461:ASP:HB2	6:7:600:MET:O	2.19	0.43
6:7:495:ALA:CA	6:7:512:ALA:HB3	2.49	0.43
6:7:650:PRO:CB	6:7:706:ASP:HB2	2.47	0.43
7:A:176:THR:H	16:N:18:ARG:HH22	1.67	0.43
8:B:18:PHE:HZ	10:D:135:ARG:HB3	1.84	0.43
11:E:380:MET:HB2	11:E:385:LYS:HD2	2.01	0.43
12:F:744:PRO:HB3	12:F:752:LEU:HD11	2.01	0.43
12:F:891:GLN:CD	12:F:893:ARG:HB3	2.43	0.43
15:M:1669:ASP:HA	15:M:1672:ILE:HD12	2.00	0.43
15:M:2160:GLN:HE22	15:M:2162:LEU:HG	1.84	0.43
15:M:2204:VAL:HG13	15:M:2208:TYR:HD2	1.83	0.43
16:N:269:THR:N	16:N:283:LEU:O	2.47	0.43
16:N:284:LEU:HB2	16:N:328:VAL:CG2	2.48	0.43
16:N:352:ARG:HB2	16:N:635:ILE:O	2.18	0.43
1:2:333:GLN:HE21	4:5:322:ALA:HB3	1.83	0.43
1:2:741:ARG:NH2	1:2:744:ARG:HG3	2.34	0.43
2:3:412:SER:C	4:5:653:LEU:HD21	2.43	0.43
2:3:496:THR:HA	2:3:505:THR:HG23	2.00	0.43
3:4:509:ILE:HG23	3:4:750:TYR:CE1	2.54	0.43
4:5:650:ILE:HD11	4:5:653:LEU:HD23	2.01	0.43
4:5:651:ARG:HG3	4:5:689:MET:HE2	2.00	0.43
5:6:275:ARG:O	5:6:290:ILE:HD12	2.18	0.43
5:6:515:GLU:O	5:6:518:GLU:HG3	2.19	0.43
6:7:258:ILE:HG22	6:7:271:GLN:HG3	2.01	0.43
6:7:310:PHE:CZ	6:7:334:HIS:HB3	2.54	0.43
7:A:53:TYR:O	7:A:57:GLN:CB	2.65	0.43
7:A:64:ASP:O	7:A:67:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:B:11:PHE:HZ	10:D:68:LYS:HA	1.84	0.43
8:B:73:LEU:O	8:B:77:LEU:HG	2.19	0.43
8:B:115:LEU:HB3	8:B:119:TRP:CD1	2.54	0.43
8:B:124:ARG:CD	9:C:191:MET:HA	2.48	0.43
9:C:48:LEU:HA	9:C:51:ALA:HB3	2.00	0.43
10:D:7:ASP:OD2	12:F:904:ARG:NH2	2.51	0.43
11:E:530:LEU:N	11:E:570:ALA:O	2.41	0.43
12:G:486:PHE:CZ	12:G:490:ASP:HA	2.54	0.43
12:G:702:ASN:O	12:G:724:SER:HB3	2.19	0.43
12:H:548:GLN:OE1	12:H:550:LYS:N	2.51	0.43
15:M:1531:ILE:HG23	15:M:1534:GLN:HE21	1.84	0.43
15:M:1592:LEU:HD22	15:M:1601:LEU:HD22	2.01	0.43
16:N:17:LEU:HD13	16:N:20:LEU:HD12	2.00	0.43
16:N:434:TRP:O	16:N:484:ILE:N	2.48	0.43
1:2:458:ARG:HE	1:2:471:LEU:HB2	1.84	0.43
1:2:601:LYS:N	1:2:643:ARG:O	2.52	0.43
1:2:624:MET:SD	1:2:676:ARG:HD3	2.59	0.43
2:3:198:ARG:HA	2:3:213:ASP:HA	2.00	0.43
2:3:417:GLN:O	2:3:421:PHE:N	2.49	0.43
2:3:669:PRO:HA	2:3:719:LYS:O	2.19	0.43
3:4:315:ARG:HA	6:7:341:ARG:CZ	2.49	0.43
3:4:593:GLY:N	3:4:633:GLU:OE1	2.52	0.43
3:4:881:MET:HE1	3:4:885:GLU:HB3	2.01	0.43
4:5:625:ASN:HB3	4:5:679:GLU:OE2	2.19	0.43
4:5:743:PHE:HD2	4:5:748:LEU:HB2	1.83	0.43
5:6:194:PRO:C	5:6:196:LEU:H	2.27	0.43
5:6:576:ASP:OD1	5:6:688:ARG:HA	2.19	0.43
6:7:534:ARG:NH1	6:7:587:PRO:HD3	2.34	0.43
7:A:58:GLN:HE21	7:A:58:GLN:HB3	1.45	0.43
11:E:162:LEU:HD23	11:E:230:ILE:HD12	2.00	0.43
11:E:642:GLU:O	11:E:646:LEU:HG	2.19	0.43
12:F:502:VAL:HG23	12:F:514:THR:O	2.19	0.43
12:F:874:CYS:HB3	12:F:905:ALA:HB2	2.01	0.43
12:G:514:THR:HA	12:G:527:HIS:CB	2.48	0.43
12:G:566:TRP:NE1	12:G:602:GLN:O	2.47	0.43
12:G:785:LYS:HZ1	12:G:821:MET:HG3	1.83	0.43
15:M:1358:TYR:HE2	15:M:1686:VAL:HG11	1.84	0.43
15:M:1886:MET:HE3	15:M:1902:ILE:HB	2.01	0.43
15:M:2177:ALA:O	15:M:2178:HIS:HB3	2.19	0.43
16:N:320:TYR:CD2	16:N:344:MET:HE1	2.54	0.43
16:N:534:TYR:HD2	16:N:537:GLN:H	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:404:ARG:NH1	5:6:299:GLU:HA	2.34	0.42
1:2:761:GLU:O	1:2:764:MET:HG3	2.19	0.42
1:2:816:ILE:HG22	1:2:837:ALA:HB1	1.99	0.42
2:3:104:ARG:CZ	9:C:89:LYS:HB3	2.48	0.42
2:3:161:PHE:HB2	2:3:165:ALA:N	2.33	0.42
2:3:538:SER:C	2:3:540:LEU:H	2.27	0.42
3:4:516:GLU:OE1	3:4:516:GLU:N	2.45	0.42
3:4:650:GLU:OE2	3:4:701:ARG:NE	2.52	0.42
4:5:402:ASP:OD1	4:5:403:GLY:N	2.50	0.42
4:5:482:PHE:CE2	4:5:521:ALA:HA	2.54	0.42
4:5:715:GLU:HB3	4:5:754:ALA:HB1	2.01	0.42
4:5:771:TYR:HA	15:M:2189:LEU:N	2.33	0.42
5:6:290:ILE:HB	5:6:397:PHE:CE1	2.54	0.42
5:6:501:GLN:HG2	5:6:502:GLU:N	2.33	0.42
6:7:358:ALA:HB3	6:7:373:GLU:HG2	2.00	0.42
8:B:60:LEU:HA	8:B:63:MET:SD	2.59	0.42
10:D:256:TYR:HB3	10:D:269:LEU:HD12	2.01	0.42
12:F:521:GLY:O	12:F:524:ARG:NH2	2.51	0.42
12:G:745:LEU:HD23	12:G:745:LEU:H	1.83	0.42
12:H:614:PRO:HB2	12:H:630:TYR:O	2.19	0.42
15:M:1887:LYS:NZ	15:M:1900:LEU:HD13	2.34	0.42
15:M:1945:LEU:HD21	15:M:1949:TYR:C	2.43	0.42
16:N:180:ARG:HA	16:N:628:HIS:ND1	2.34	0.42
16:N:338:LYS:O	16:N:340:HIS:HD2	2.02	0.42
16:N:349:GLY:HA3	16:N:608:ASP:HA	2.01	0.42
1:2:504:SER:O	1:2:505:ILE:HD13	2.19	0.42
2:3:374:HIS:HB3	2:3:377:ILE:HB	2.00	0.42
3:4:213:GLU:HA	3:4:216:ILE:HG23	2.01	0.42
3:4:314:MET:SD	3:4:413:HIS:ND1	2.82	0.42
3:4:432:ARG:NH1	3:4:434:GLU:OE2	2.53	0.42
3:4:445:ARG:NH2	3:4:451:ARG:HG2	2.34	0.42
3:4:529:SER:HB2	3:4:580:TYR:CE2	2.54	0.42
3:4:764:GLU:HA	3:4:767:LYS:HD2	2.01	0.42
3:4:885:GLU:OE1	3:4:885:GLU:N	2.52	0.42
4:5:105:SER:O	4:5:106:ARG:HG2	2.20	0.42
4:5:413:LEU:HA	4:5:521:ALA:HB3	2.00	0.42
4:5:553:ILE:HB	4:5:685:GLN:NE2	2.34	0.42
4:5:558:ASP:HB3	4:5:560:HIS:CE1	2.54	0.42
5:6:360:ARG:HA	5:6:378:ASP:HA	2.01	0.42
5:6:551:MET:HB3	5:6:755:ILE:HD12	2.01	0.42
5:6:771:SER:O	5:6:775:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:410:VAL:O	6:7:414:LEU:N	2.34	0.42
6:7:498:MET:O	6:7:499:LYS:HD2	2.19	0.42
9:C:141:SER:O	9:C:181:HIS:NE2	2.52	0.42
10:D:67:TRP:NE1	10:D:142:SER:OG	2.52	0.42
10:D:217:ASN:ND2	10:D:219:ILE:HB	2.34	0.42
12:F:597:PHE:HB3	12:F:610:GLU:HG2	2.01	0.42
12:G:749:TYR:CE2	12:G:750:ASP:HB3	2.54	0.42
12:H:721:ILE:HD11	12:H:776:ILE:HD12	2.02	0.42
15:M:1376:ILE:HG13	15:M:1377:GLU:N	2.29	0.42
15:M:1512:LEU:O	15:M:1512:LEU:HD23	2.19	0.42
15:M:1824:ASN:HD21	16:N:446:SER:HB2	1.85	0.42
16:N:91:MET:O	16:N:95:GLU:HG2	2.19	0.42
16:N:640:VAL:HA	16:N:659:ILE:HG23	2.02	0.42
1:2:194:TYR:CE2	1:2:262:LYS:HD3	2.55	0.42
1:2:211:LEU:HD11	1:2:271:PHE:HD1	1.85	0.42
1:2:218:TYR:CE2	1:2:220:ASP:HB2	2.54	0.42
1:2:273:LEU:O	1:2:276:MET:HB2	2.19	0.42
1:2:661:LEU:HB3	1:2:666:ASN:ND2	2.35	0.42
1:2:707:HIS:NE2	5:6:557:LYS:HD3	2.34	0.42
1:2:790:TYR:O	1:2:794:ARG:HG2	2.20	0.42
2:3:94:HIS:HB2	2:3:154:LYS:NZ	2.32	0.42
2:3:201:HIS:HD2	2:3:241:LEU:HD21	1.84	0.42
2:3:266:PRO:HG2	2:3:269:GLN:HE21	1.83	0.42
2:3:372:TYR:CD2	2:3:564:HIS:HB2	2.50	0.42
3:4:445:ARG:NH2	5:6:419:SER:HB3	2.34	0.42
3:4:634:PHE:O	3:4:637:MET:HE1	2.20	0.42
5:6:115:PHE:HA	5:6:118:PHE:HE1	1.83	0.42
5:6:360:ARG:HB3	5:6:378:ASP:OD1	2.18	0.42
6:7:263:ASP:HB3	6:7:299:PHE:HE2	1.83	0.42
6:7:708:VAL:HG22	6:7:710:ILE:HG12	2.01	0.42
8:B:87:ILE:HG22	8:B:133:ASP:OD2	2.19	0.42
10:D:192:LYS:HG3	10:D:193:LEU:N	2.34	0.42
11:E:131:LEU:HD21	11:E:152:LEU:HD13	2.00	0.42
11:E:549:GLY:O	11:E:553:ILE:HG13	2.19	0.42
12:F:884:SER:HA	12:F:887:HIS:ND1	2.34	0.42
12:F:895:LEU:HD11	12:F:921:ARG:HG3	2.01	0.42
12:G:831:LYS:HE3	12:G:862:TYR:CD1	2.55	0.42
12:H:554:ILE:N	12:H:568:LYS:O	2.28	0.42
12:H:587:ARG:HB3	12:H:643:LEU:HD22	2.01	0.42
12:H:762:ILE:H	12:H:762:ILE:HD12	1.84	0.42
15:M:1501:LEU:O	15:M:1510:THR:HB	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1948:ILE:HG21	15:M:2035:TYR:CD1	2.53	0.42
15:M:2056:LYS:HB3	15:M:2094:PHE:CD1	2.54	0.42
15:M:2196:GLN:HA	15:M:2199:ASN:ND2	2.33	0.42
1:2:760:GLN:OE1	1:2:760:GLN:N	2.35	0.42
1:2:786:VAL:HG11	4:5:573:ILE:HD11	2.00	0.42
2:3:256:ILE:O	2:3:276:VAL:HG12	2.19	0.42
2:3:375:ASP:O	2:3:379:LYS:HG3	2.19	0.42
2:3:474:GLU:HA	2:3:516:ALA:HA	2.00	0.42
2:3:486:ILE:HG23	2:3:490:MET:CG	2.49	0.42
2:3:690:ASP:OD1	2:3:691:ASN:N	2.52	0.42
3:4:209:LEU:HD22	3:4:250:ALA:HA	2.01	0.42
3:4:511:GLU:HA	3:4:514:ALA:HB3	2.02	0.42
3:4:912:GLN:HG2	5:6:696:ARG:NE	2.34	0.42
4:5:161:ARG:HG3	4:5:295:VAL:HG12	2.02	0.42
4:5:349:PHE:CE2	4:5:354:GLU:HB3	2.54	0.42
4:5:579:ASN:OD1	4:5:580:ALA:N	2.51	0.42
5:6:176:ARG:HD3	5:6:180:PHE:CE2	2.54	0.42
5:6:341:ARG:HA	5:6:344:TRP:HZ2	1.84	0.42
5:6:796:THR:HG22	5:6:797:VAL:HG22	2.01	0.42
5:6:800:LEU:HA	5:6:803:MET:CE	2.47	0.42
6:7:24:PHE:HB2	6:7:88:TYR:CE2	2.55	0.42
6:7:260:TYR:HD2	6:7:269:VAL:HG23	1.84	0.42
6:7:275:SER:C	6:7:277:THR:H	2.26	0.42
7:A:17:LYS:HB3	7:A:92:LEU:HD11	2.01	0.42
10:D:82:GLN:HA	10:D:85:LYS:HG2	2.01	0.42
11:E:68:ARG:CZ	11:E:96:LEU:HA	2.49	0.42
11:E:464:GLN:O	11:E:467:THR:OG1	2.30	0.42
12:F:685:LYS:HE2	12:F:700:SER:HA	2.01	0.42
12:G:582:ALA:HB3	12:G:589:ILE:HB	2.01	0.42
12:H:492:ARG:N	12:H:504:THR:O	2.48	0.42
12:H:785:LYS:HE2	12:H:821:MET:HG2	2.01	0.42
12:H:893:ARG:O	12:H:896:THR:OG1	2.26	0.42
15:M:1622:LEU:HD22	15:M:1626:ASN:HD21	1.85	0.42
15:M:1915:PHE:CE1	15:M:2121:LYS:HB3	2.55	0.42
15:M:1943:LYS:HA	15:M:1943:LYS:HD3	1.80	0.42
1:2:307:ARG:HH11	1:2:404:ARG:HG2	1.84	0.42
1:2:519:LEU:HD22	1:2:560:ALA:HB2	2.01	0.42
2:3:272:ARG:HA	2:3:272:ARG:HD3	1.63	0.42
2:3:383:LEU:HD21	2:3:708:LEU:HD22	2.01	0.42
2:3:407:MET:HE1	2:3:415:LYS:CD	2.48	0.42
2:3:558:ASP:HB3	4:5:630:ARG:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:677:ASN:HA	2:3:680:VAL:HG22	2.01	0.42
3:4:251:TYR:O	3:4:255:GLU:N	2.52	0.42
3:4:371:CYS:HB3	3:4:377:ASN:H	1.85	0.42
3:4:651:GLN:O	3:4:651:GLN:NE2	2.51	0.42
3:4:763:THR:O	3:4:767:LYS:N	2.51	0.42
4:5:261:ILE:HG22	4:5:264:LEU:H	1.84	0.42
4:5:291:ARG:H	4:5:337:VAL:HG13	1.84	0.42
5:6:274:HIS:HB3	5:6:278:ASP:HB2	2.01	0.42
5:6:361:ILE:HG21	5:6:397:PHE:CZ	2.54	0.42
5:6:532:SER:OG	5:6:745:PRO:HB2	2.19	0.42
5:6:728:ALA:O	5:6:731:ILE:HG13	2.20	0.42
5:6:782:LYS:HD3	5:6:790:ARG:NH1	2.35	0.42
6:7:121:ILE:HG23	6:7:198:ARG:HE	1.84	0.42
6:7:238:LEU:HD21	6:7:352:THR:HG22	2.01	0.42
6:7:255:VAL:HG12	6:7:307:PHE:CD1	2.54	0.42
6:7:264:GLN:HG2	6:7:265:CYS:N	2.34	0.42
6:7:383:GLN:OE1	6:7:386:LYS:HE2	2.20	0.42
7:A:103:ASN:HA	7:A:107:LEU:HD12	2.01	0.42
8:B:27:ILE:HG22	8:B:87:ILE:HD12	2.01	0.42
12:F:549:SER:HB3	12:F:578:ILE:H	1.84	0.42
12:G:484:THR:HG23	12:G:493:TYR:HB2	2.02	0.42
12:G:542:LYS:HE2	12:G:584:THR:C	2.44	0.42
12:H:558:PRO:HB2	12:H:561:SER:H	1.84	0.42
15:M:1838:ASN:HB3	15:M:1842:LYS:HZ3	1.84	0.42
15:M:2108:CYS:O	15:M:2112:PHE:N	2.45	0.42
16:N:285:LEU:HA	16:N:326:VAL:O	2.19	0.42
1:2:247:ARG:C	1:2:249:LEU:H	2.27	0.42
1:2:343:LYS:HE2	1:2:371:GLY:HA3	2.02	0.42
1:2:505:ILE:HA	18:2:902:ADP:N1	2.35	0.42
1:2:542:LEU:O	1:2:683:VAL:N	2.52	0.42
2:3:384:MET:HE2	2:3:405:ILE:HG13	2.02	0.42
2:3:685:ASP:HA	2:3:688:ASN:OD1	2.20	0.42
3:4:721:ALA:HA	3:4:724:LEU:HD12	2.00	0.42
3:4:762:ILE:HG23	3:4:767:LYS:NZ	2.34	0.42
4:5:29:LYS:NZ	4:5:32:LYS:HD2	2.35	0.42
4:5:182:MET:O	4:5:241:TYR:HA	2.20	0.42
5:6:113:GLU:O	5:6:117:GLN:OE1	2.36	0.42
5:6:276:ILE:HG21	5:6:363:GLU:HB3	2.01	0.42
5:6:517:LYS:O	5:6:521:LYS:HD3	2.19	0.42
5:6:706:MET:HB2	5:6:712:PHE:CZ	2.52	0.42
5:6:738:ARG:CZ	5:6:738:ARG:HB2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:771:SER:HA	5:6:774:VAL:HG12	2.02	0.42
5:6:816:VAL:HG11	5:6:823:PHE:CZ	2.54	0.42
6:7:348:ILE:HG22	6:7:384:HIS:ND1	2.34	0.42
6:7:356:LEU:HB3	6:7:375:TYR:CZ	2.54	0.42
6:7:414:LEU:HB3	6:7:433:LEU:HD13	2.01	0.42
7:A:1:MET:HG3	7:A:2:TYR:H	1.84	0.42
9:C:166:LEU:O	9:C:174:LYS:HE2	2.20	0.42
10:D:7:ASP:OD1	10:D:8:ILE:N	2.46	0.42
10:D:249:ASN:N	10:D:253:LYS:O	2.36	0.42
11:E:28:VAL:HG23	11:E:78:ILE:HG21	2.01	0.42
11:E:258:LEU:O	11:E:262:ILE:HG12	2.19	0.42
12:F:519:ASP:OD1	12:F:522:ARG:N	2.50	0.42
12:G:661:LEU:HD12	12:G:662:PRO:HD2	2.02	0.42
12:G:847:MET:H	12:G:847:MET:HG3	1.55	0.42
12:H:534:TYR:HE2	12:H:555:GLN:HB2	1.83	0.42
12:H:866:LEU:HD13	12:H:889:LEU:HA	2.02	0.42
15:M:1593:GLN:HB3	15:M:1615:LEU:N	2.34	0.42
15:M:1701:ILE:HG13	15:M:1703:ASN:H	1.85	0.42
15:M:2004:SER:HA	15:M:2007:PHE:HE1	1.84	0.42
1:2:811:GLU:OE2	20:5:803:AGS:H1'	2.19	0.42
2:3:198:ARG:HG3	2:3:213:ASP:OD1	2.20	0.42
2:3:266:PRO:HG2	2:3:269:GLN:HG2	2.02	0.42
2:3:317:PHE:HE2	4:5:176:ALA:HB2	1.84	0.42
2:3:728:VAL:O	2:3:732:LEU:HG	2.18	0.42
3:4:264:TYR:HB2	3:4:267:GLU:OE1	2.19	0.42
3:4:417:LEU:HA	3:4:461:VAL:O	2.20	0.42
3:4:559:ARG:HD3	3:4:668:ARG:NH1	2.34	0.42
3:4:919:LEU:HD13	3:4:925:ARG:HB3	2.02	0.42
4:5:152:ASP:OD1	4:5:152:ASP:N	2.50	0.42
4:5:572:VAL:O	4:5:576:HIS:HB2	2.20	0.42
4:5:637:GLU:HA	4:5:640:SER:HG	1.85	0.42
4:5:773:SER:OG	15:M:2186:GLU:O	2.38	0.42
5:6:511:ASP:OD1	5:6:512:GLU:N	2.53	0.42
5:6:594:ARG:O	5:6:594:ARG:HG2	2.19	0.42
5:6:620:ASP:OD1	5:6:620:ASP:N	2.52	0.42
5:6:689:TYR:CE2	5:6:691:ARG:HD3	2.53	0.42
6:7:500:ASP:N	6:7:501:PRO:CD	2.82	0.42
7:A:188:GLN:NE2	7:A:207:LYS:HE2	2.33	0.42
8:B:16:ILE:HD11	8:B:179:ASN:ND2	2.31	0.42
10:D:260:ILE:HB	10:D:263:LEU:HB3	2.02	0.42
11:E:162:LEU:HD21	11:E:233:TYR:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F:484:THR:HG23	12:F:763:TRP:HB2	2.01	0.42
12:G:555:GLN:HG2	12:G:567:THR:OG1	2.20	0.42
12:G:573:GLN:HG2	12:G:576:GLU:CD	2.44	0.42
12:H:583:ALA:HA	12:H:588:VAL:HG22	2.02	0.42
12:H:599:SER:HB2	12:H:608:ALA:N	2.34	0.42
15:M:1345:LYS:HE3	15:M:1345:LYS:HB3	1.48	0.42
15:M:1499:PHE:H	15:M:1513:VAL:HA	1.85	0.42
15:M:2146:LEU:HG	15:M:2201:PHE:CE2	2.55	0.42
16:N:208:LEU:HD23	16:N:208:LEU:HA	1.81	0.42
2:3:95:ARG:HD2	2:3:154:LYS:CB	2.49	0.42
3:4:591:THR:OG1	3:4:631:ILE:HG23	2.19	0.42
3:4:910:LEU:HD22	3:4:915:LYS:HD2	2.00	0.42
4:5:65:MET:SD	4:5:139:LEU:HB3	2.60	0.42
4:5:176:ALA:HB1	4:5:179:LEU:HG	2.01	0.42
4:5:183:CYS:HB2	4:5:188:HIS:HB3	2.02	0.42
4:5:257:LYS:HG3	4:5:273:ASN:HB3	2.01	0.42
4:5:371:THR:O	4:5:385:LYS:HE2	2.19	0.42
4:5:415:LEU:O	4:5:556:VAL:N	2.53	0.42
4:5:450:THR:HA	4:5:469:MET:HE2	2.02	0.42
6:7:76:ASN:O	6:7:200:TYR:HA	2.19	0.42
6:7:262:CYS:N	6:7:298:LEU:HD13	2.35	0.42
6:7:456:VAL:HA	6:7:596:ILE:HG23	2.01	0.42
6:7:573:ARG:HH22	6:7:577:ARG:HH22	1.67	0.42
9:C:13:GLY:HA2	9:C:49:TRP:HD1	1.83	0.42
10:D:63:LEU:HD22	10:D:87:LEU:HD13	2.02	0.42
11:E:482:ASP:HB3	11:E:488:LYS:HE2	2.02	0.42
11:E:639:PRO:HA	11:E:642:GLU:HG2	2.01	0.42
12:G:818:PRO:HB2	12:G:821:MET:HB3	2.02	0.42
12:G:891:GLN:HB3	12:G:894:ALA:HB3	2.00	0.42
12:G:918:ARG:HB3	12:G:922:TYR:CZ	2.55	0.42
15:M:1336:LEU:HG	15:M:1350:THR:CG2	2.50	0.42
15:M:1939:TRP:CB	15:M:1942:LYS:HB2	2.34	0.42
15:M:1945:LEU:CD2	15:M:2054:LEU:CD1	2.98	0.42
16:N:459:LYS:HB2	16:N:512:PHE:CD1	2.54	0.42
1:2:227:TYR:CE1	1:2:248:HIS:HB2	2.55	0.42
1:2:564:VAL:HG12	1:2:604:CYS:HA	2.02	0.42
2:3:23:ASP:O	2:3:27:ARG:HG3	2.19	0.42
2:3:276:VAL:HG21	2:3:294:VAL:HG21	2.01	0.42
2:3:376:HIS:CD2	2:3:732:LEU:HD22	2.54	0.42
2:3:425:THR:HA	2:3:657:ARG:HE	1.85	0.42
2:3:537:ASP:HA	2:3:540:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:378:GLU:O	5:6:441:ARG:NH2	2.52	0.42
3:4:826:VAL:HG13	3:4:830:ARG:CZ	2.49	0.42
4:5:192:ILE:HG22	4:5:194:ILE:HG12	2.02	0.42
4:5:259:GLN:NE2	4:5:260:GLU:O	2.52	0.42
4:5:416:GLY:HA2	4:5:530:TYR:HB2	2.02	0.42
4:5:416:GLY:H	4:5:525:PRO:HD3	1.84	0.42
4:5:476:VAL:HG13	4:5:518:SER:HB2	2.02	0.42
4:5:564:ARG:NH1	4:5:568:ILE:HD11	2.35	0.42
4:5:681:ILE:HA	4:5:684:PHE:CD2	2.55	0.42
6:7:429:LYS:O	6:7:433:LEU:HG	2.19	0.42
6:7:579:SER:O	6:7:583:ASN:ND2	2.53	0.42
6:7:597:LEU:O	6:7:723:SER:HB3	2.19	0.42
7:A:10:VAL:HB	9:C:6:ILE:HD11	2.02	0.42
7:A:130:TYR:CD1	10:D:189:ILE:HG12	2.54	0.42
7:A:174:ILE:HD13	7:A:174:ILE:HA	1.93	0.42
8:B:122:LEU:O	8:B:126:LEU:HG	2.20	0.42
9:C:135:LEU:HA	9:C:135:LEU:HD12	1.77	0.42
11:E:243:GLN:HB3	11:E:602:LEU:HD13	2.01	0.42
12:F:600:PHE:CE2	12:F:606:PRO:HG3	2.54	0.42
12:F:677:TYR:HA	12:F:680:ASN:O	2.20	0.42
12:F:691:SER:HB3	12:F:748:ALA:HA	2.02	0.42
12:F:865:ALA:O	12:F:869:LEU:HG	2.20	0.42
12:F:913:LYS:HE2	12:F:913:LYS:HA	2.01	0.42
15:M:1841:LYS:HA	15:M:1863:ARG:NH2	2.34	0.42
16:N:93:GLU:HA	16:N:96:LYS:HE2	2.02	0.42
16:N:292:PHE:CZ	16:N:293:LYS:HE3	2.54	0.42
1:2:325:THR:HB	1:2:389:THR:HB	2.02	0.42
1:2:388:VAL:N	1:2:407:GLU:OE2	2.53	0.42
1:2:860:SER:O	1:2:863:ILE:HG12	2.20	0.42
2:3:167:SER:HG	2:3:170:THR:H	1.68	0.42
3:4:312:LYS:O	3:4:328:LEU:HD12	2.19	0.42
3:4:559:ARG:HD2	3:4:559:ARG:HA	1.84	0.42
3:4:691:ASN:C	3:4:691:ASN:HD22	2.28	0.42
4:5:34:PHE:HD1	4:5:71:TYR:CG	2.38	0.42
4:5:53:ASN:OD1	4:5:58:ASN:ND2	2.49	0.42
4:5:71:TYR:HA	11:E:415:TYR:CD1	2.55	0.42
4:5:552:MET:HA	4:5:658:ARG:CZ	2.50	0.42
4:5:738:VAL:HB	4:5:741:HIS:CE1	2.55	0.42
5:6:351:SER:O	5:6:352:ARG:NE	2.53	0.42
5:6:519:MET:HB3	5:6:746:PHE:HE1	1.84	0.42
5:6:642:ASP:HB3	5:6:643:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:730:HIS:CG	5:6:734:LEU:HD11	2.55	0.42
6:7:466:LYS:HE3	6:7:567:ALA:O	2.20	0.42
9:C:131:ARG:HE	9:C:165:PHE:HE1	1.68	0.42
9:C:138:HIS:ND1	9:C:162:THR:HA	2.35	0.42
10:D:75:GLU:C	10:D:150:LYS:HZ3	2.28	0.42
10:D:159:ARG:HH21	10:D:187:SER:HB2	1.85	0.42
11:E:96:LEU:HB3	11:E:98:ILE:HG12	2.01	0.42
12:F:627:SER:O	12:F:639:SER:N	2.42	0.42
12:F:712:SER:HB3	12:F:715:GLU:HB2	2.01	0.42
12:F:742:VAL:HA	12:F:755:ILE:O	2.19	0.42
12:H:912:LYS:HA	12:H:915:ASN:ND2	2.35	0.42
15:M:1433:PRO:HB2	15:M:1436:ARG:HG2	2.02	0.42
15:M:1723:ASN:HB2	15:M:1859:VAL:HA	2.02	0.42
16:N:77:LEU:C	16:N:79:ILE:H	2.28	0.42
16:N:402:LEU:H	16:N:435:GLN:HE22	1.67	0.42
1:2:236:GLU:HG3	11:E:360:HIS:HB2	2.01	0.41
1:2:701:ASP:HB2	1:2:705:ARG:HH21	1.85	0.41
2:3:131:ASP:HA	2:3:134:ASP:OD2	2.19	0.41
2:3:350:ILE:HD11	2:3:655:PHE:CZ	2.55	0.41
3:4:205:PHE:CZ	3:4:252:LYS:HE3	2.54	0.41
3:4:520:SER:HA	3:4:538:LYS:HZ1	1.84	0.41
4:5:195:ASN:HB2	4:5:197:PHE:HD2	1.84	0.41
4:5:377:SER:O	20:5:803:AGS:H2	2.20	0.41
4:5:390:CYS:HB2	4:5:665:LYS:NZ	2.34	0.41
4:5:456:ASP:OD2	4:5:458:MET:HE3	2.20	0.41
4:5:563:GLU:OE1	4:5:563:GLU:N	2.33	0.41
4:5:630:ARG:NH2	4:5:652:GLN:HB2	2.33	0.41
4:5:683:LEU:HB3	15:M:2182:ALA:HA	2.02	0.41
6:7:72:ASN:CG	6:7:74:GLU:HG3	2.45	0.41
8:B:34:ARG:NE	8:B:34:ARG:HA	2.35	0.41
10:D:153:LYS:HE2	10:D:153:LYS:HB2	1.88	0.41
10:D:178:ASP:OD1	10:D:179:GLU:N	2.53	0.41
11:E:3:TYR:HA	11:E:7:GLN:OE1	2.20	0.41
11:E:577:ASP:O	11:E:634:ARG:HG2	2.20	0.41
12:G:549:SER:HA	12:G:578:ILE:HB	2.02	0.41
12:G:571:PRO:HG2	12:G:598:ARG:CZ	2.50	0.41
16:N:23:ARG:HA	16:N:27:ARG:NE	2.34	0.41
16:N:78:PHE:O	16:N:82:SER:OG	2.24	0.41
16:N:450:ARG:H	16:N:450:ARG:HD3	1.85	0.41
1:2:423:GLU:OE2	1:2:459:ARG:NH1	2.53	0.41
1:2:525:LYS:O	1:2:533:ILE:N	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:353:LEU:HA	2:3:356:LYS:HE3	2.02	0.41
2:3:544:ASP:OD1	2:3:704:THR:HG22	2.19	0.41
3:4:329:LYS:HD2	3:4:432:ARG:NH2	2.35	0.41
3:4:530:ILE:HB	3:4:537:LYS:NZ	2.35	0.41
3:4:569:ASP:OD1	3:4:574:LYS:HE3	2.20	0.41
5:6:117:GLN:HA	5:6:120:GLU:HG3	2.02	0.41
5:6:350:ARG:O	5:6:352:ARG:HG2	2.20	0.41
5:6:527:ASP:O	5:6:531:ARG:HG3	2.20	0.41
5:6:761:PHE:HB2	5:6:815:CYS:HB3	2.02	0.41
5:6:781:ARG:O	5:6:790:ARG:HB3	2.20	0.41
5:6:796:THR:O	5:6:800:LEU:N	2.53	0.41
6:7:71:ALA:HA	6:7:128:PRO:HB3	2.02	0.41
6:7:116:LEU:HG	6:7:119:ARG:HH21	1.85	0.41
6:7:149:ARG:CZ	6:7:267:TYR:HA	2.50	0.41
6:7:358:ALA:N	6:7:374:THR:HA	2.35	0.41
6:7:484:THR:HA	6:7:524:ASP:H	1.85	0.41
7:A:56:GLU:HA	7:A:59:GLN:OE1	2.20	0.41
7:A:70:CYS:O	7:A:73:PHE:HD2	2.02	0.41
7:A:180:VAL:HG21	11:E:75:ASP:HB2	2.01	0.41
8:B:18:PHE:CZ	10:D:135:ARG:HB3	2.55	0.41
8:B:26:LYS:HD2	8:B:69:THR:O	2.20	0.41
8:B:57:ASP:HA	8:B:60:LEU:HB2	2.02	0.41
10:D:223:ASP:OD2	10:D:226:LYS:N	2.53	0.41
10:D:259:THR:HB	10:D:266:GLU:CD	2.45	0.41
11:E:314:ASP:OD1	11:E:314:ASP:N	2.49	0.41
12:F:694:ASP:OD2	12:F:706:LEU:HD11	2.19	0.41
15:M:1486:TYR:HB3	15:M:1502:PHE:CD2	2.54	0.41
15:M:2013:LYS:HA	15:M:2016:LYS:NZ	2.35	0.41
16:N:632:LEU:HD11	16:N:636:PRO:HD2	2.02	0.41
1:2:244:VAL:HG22	1:2:296:ARG:O	2.20	0.41
1:2:304:TYR:CD2	1:2:318:VAL:HB	2.55	0.41
1:2:319:ARG:HA	1:2:427:THR:HA	2.03	0.41
1:2:324:VAL:HG12	1:2:423:GLU:H	1.85	0.41
1:2:384:ASN:HB2	1:2:412:ALA:HA	2.02	0.41
1:2:548:ALA:HA	18:2:902:ADP:O5'	2.20	0.41
1:2:613:ASN:HB2	1:2:616:ASP:OD2	2.20	0.41
1:2:661:LEU:HD22	3:4:919:LEU:HD11	2.01	0.41
1:2:709:GLU:OE1	5:6:762:LYS:HE3	2.19	0.41
2:3:96:ILE:HD11	2:3:153:TRP:HZ3	1.84	0.41
2:3:332:ARG:NH2	2:3:426:ALA:O	2.48	0.41
2:3:697:ILE:HB	2:3:701:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:164:GLY:C	4:5:258:LEU:HD22	2.45	0.41
4:5:179:LEU:HD13	4:5:192:ILE:HG22	2.02	0.41
4:5:346:VAL:HG13	4:5:348:MET:SD	2.60	0.41
4:5:377:SER:HA	4:5:571:HIS:NE2	2.35	0.41
4:5:393:MET:HE1	4:5:606:CYS:HB3	2.02	0.41
4:5:412:VAL:HA	4:5:552:MET:CB	2.49	0.41
5:6:137:ARG:HD2	5:6:138:ALA:N	2.35	0.41
5:6:304:LEU:HD12	5:6:353:PHE:CZ	2.55	0.41
5:6:690:ASN:ND2	5:6:693:LEU:HD13	2.30	0.41
5:6:761:PHE:O	5:6:812:ARG:NE	2.53	0.41
5:6:826:GLU:O	5:6:830:LEU:HG	2.20	0.41
6:7:92:LYS:O	6:7:96:GLY:N	2.53	0.41
7:A:72:TYR:O	7:A:76:LEU:HG	2.21	0.41
7:A:165:VAL:CG1	7:A:205:LEU:HB3	2.49	0.41
8:B:127:PHE:CE2	8:B:142:ARG:HG2	2.55	0.41
10:D:280:GLU:HA	10:D:283:ARG:NE	2.32	0.41
12:F:535:ASP:N	12:F:547:GLY:O	2.53	0.41
12:F:629:HIS:HB2	12:F:637:SER:OG	2.21	0.41
12:G:621:GLN:OE1	12:G:689:PHE:HE2	2.03	0.41
12:G:817:ILE:HG13	12:G:821:MET:HE1	2.02	0.41
12:G:907:LEU:HD11	12:G:910:LEU:HD12	2.02	0.41
12:H:708:SER:O	12:H:716:SER:HA	2.21	0.41
12:H:915:ASN:O	12:H:919:GLU:HG2	2.19	0.41
15:M:1666:ASP:OD1	15:M:1666:ASP:N	2.51	0.41
15:M:1726:VAL:HG22	15:M:1910:ILE:HA	2.01	0.41
15:M:2166:ARG:HD3	15:M:2182:ALA:HB3	2.02	0.41
16:N:179:GLN:HE22	16:N:193:VAL:HG22	1.85	0.41
16:N:328:VAL:HG12	16:N:344:MET:HG2	2.02	0.41
16:N:611:HIS:CE1	16:N:630:LEU:HB3	2.55	0.41
1:2:320:VAL:HG12	1:2:426:VAL:O	2.21	0.41
2:3:95:ARG:HD2	2:3:154:LYS:HB3	2.03	0.41
2:3:377:ILE:O	2:3:381:ILE:HG23	2.20	0.41
2:3:403:ILE:HA	2:3:544:ASP:OD2	2.20	0.41
2:3:414:ALA:HB2	18:3:1001:ADP:N9	2.35	0.41
2:3:489:VAL:HG21	2:3:495:VAL:HB	2.01	0.41
3:4:802:ILE:HG13	5:6:736:MET:HE1	1.94	0.41
4:5:774:GLY:H	15:M:2188:THR:C	2.28	0.41
5:6:308:SER:CB	5:6:347:ASN:HB3	2.50	0.41
5:6:588:VAL:O	5:6:592:ALA:N	2.46	0.41
6:7:256:GLU:O	6:7:272:GLU:HG3	2.21	0.41
6:7:708:VAL:C	6:7:710:ILE:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A:71:GLN:CD	9:C:27:LEU:HG	2.44	0.41
11:E:43:LYS:HD3	11:E:481:TRP:CZ3	2.56	0.41
12:F:698:PHE:HB2	12:F:704:LEU:HD12	2.02	0.41
12:G:544:THR:HB	12:G:559:HIS:CE1	2.55	0.41
12:G:614:PRO:HB2	12:G:630:TYR:O	2.21	0.41
12:H:707:LEU:HD12	12:H:717:LYS:C	2.45	0.41
12:H:870:PHE:HA	12:H:885:LEU:HD13	2.01	0.41
15:M:1337:GLU:OE1	15:M:1349:ILE:HG22	2.21	0.41
15:M:1523:ILE:HD13	15:M:1628:GLN:HB2	2.01	0.41
15:M:1701:ILE:C	15:M:1703:ASN:H	2.28	0.41
15:M:2089:ALA:O	15:M:2093:GLU:HG3	2.20	0.41
16:N:267:SER:O	16:N:283:LEU:HB3	2.20	0.41
2:3:101:ASP:CG	9:C:86:ASN:HB3	2.46	0.41
3:4:293:LEU:O	3:4:296:ILE:HB	2.20	0.41
3:4:336:THR:O	3:4:395:GLN:NE2	2.24	0.41
4:5:149:ARG:HD3	4:5:272:ARG:NH1	2.34	0.41
4:5:291:ARG:HB3	4:5:336:ASP:HB3	2.02	0.41
4:5:625:ASN:HB2	4:5:675:ARG:HD3	2.02	0.41
5:6:402:ILE:O	5:6:452:ILE:HG23	2.20	0.41
5:6:836:ILE:H	5:6:836:ILE:HD12	1.85	0.41
6:7:61:PRO:HB2	6:7:64:MET:HE2	2.02	0.41
6:7:149:ARG:NH2	6:7:268:GLU:H	2.18	0.41
6:7:228:ARG:NH1	6:7:329:ARG:HB2	2.36	0.41
6:7:481:VAL:O	6:7:522:CYS:HB2	2.20	0.41
7:A:51:THR:CG2	7:A:79:MET:HE1	2.44	0.41
7:A:166:ARG:HD3	11:E:478:TRP:CD1	2.56	0.41
8:B:160:LEU:HA	8:B:163:LEU:HG	2.03	0.41
9:C:27:LEU:HB3	9:C:30:LEU:HD12	2.02	0.41
10:D:11:GLU:HA	10:D:14:LYS:HE2	2.02	0.41
11:E:74:LEU:HB2	11:E:118:ARG:NH1	2.36	0.41
11:E:344:VAL:HG12	11:E:350:LEU:HD11	2.01	0.41
12:F:728:ILE:HD12	12:F:740:ILE:HD13	2.03	0.41
12:F:820:SER:HA	12:F:868:ARG:NH1	2.34	0.41
12:G:514:THR:HA	12:G:527:HIS:HB3	2.03	0.41
12:G:571:PRO:HG2	12:G:598:ARG:NH2	2.36	0.41
12:G:831:LYS:O	12:G:832:VAL:C	2.62	0.41
12:H:597:PHE:HB3	12:H:610:GLU:HB3	2.01	0.41
15:M:1336:LEU:HD23	15:M:1434:HIS:ND1	2.36	0.41
15:M:1489:HIS:HB3	15:M:1594:SER:HB2	2.02	0.41
15:M:1820:VAL:HG13	15:M:1832:LEU:HG	2.01	0.41
15:M:2032:GLU:HA	15:M:2035:TYR:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:2055:VAL:HA	15:M:2058:LEU:HD12	2.03	0.41
15:M:2059:CYS:HA	15:M:2062:MET:HE3	2.03	0.41
15:M:2071:GLU:O	15:M:2074:THR:OG1	2.24	0.41
15:M:2181:CYS:SG	15:M:2182:ALA:N	2.93	0.41
1:2:551:GLN:HG3	18:2:902:ADP:H3'	2.03	0.41
1:2:589:TRP:HB3	1:2:636:ILE:HD11	2.03	0.41
2:3:400:ARG:HH22	2:3:544:ASP:CG	2.29	0.41
2:3:413:THR:N	18:3:1001:ADP:PB	2.93	0.41
3:4:347:PHE:CE2	3:4:384:LEU:HG	2.54	0.41
3:4:577:ILE:O	3:4:581:VAL:HG13	2.20	0.41
4:5:169:THR:HB	4:5:254:GLN:NE2	2.34	0.41
4:5:596:ILE:HD12	4:5:599:MET:SD	2.61	0.41
4:5:616:PRO:CD	4:5:668:LEU:HD11	2.49	0.41
5:6:524:HIS:O	5:6:524:HIS:CG	2.71	0.41
5:6:548:LEU:O	5:6:551:MET:HB2	2.21	0.41
5:6:689:TYR:HB2	5:6:715:ILE:HG12	2.02	0.41
5:6:729:SER:O	5:6:732:VAL:HG13	2.20	0.41
5:6:796:THR:HG22	5:6:797:VAL:N	2.34	0.41
6:7:17:LEU:HD13	6:7:113:PHE:CZ	2.55	0.41
6:7:79:ILE:HG22	6:7:205:LYS:NZ	2.36	0.41
6:7:264:GLN:NE2	6:7:289:CYS:SG	2.93	0.41
6:7:606:ARG:HD3	6:7:606:ARG:H	1.85	0.41
8:B:18:PHE:HA	8:B:21:GLU:OE1	2.20	0.41
9:C:106:SER:HA	9:C:109:ILE:HD12	2.02	0.41
10:D:151:ILE:HA	10:D:158:LEU:HD11	2.02	0.41
10:D:224:TRP:O	10:D:280:GLU:N	2.53	0.41
11:E:266:ASN:N	11:E:269:ASN:OD1	2.48	0.41
12:F:522:ARG:HA	12:F:522:ARG:NE	2.35	0.41
12:F:626:PHE:HE2	12:F:687:LEU:HD21	1.84	0.41
12:F:755:ILE:HD11	12:F:769:PRO:HD2	2.02	0.41
12:H:629:HIS:HB2	12:H:637:SER:OG	2.20	0.41
12:H:703:THR:HB	12:H:723:ASP:HA	2.02	0.41
12:H:704:LEU:HD21	12:H:747:LEU:HD22	2.01	0.41
15:M:1378:LYS:NZ	15:M:1685:ILE:HA	2.35	0.41
16:N:55:GLN:HA	16:N:58:ALA:HB3	2.02	0.41
1:2:471:LEU:HD23	1:2:471:LEU:H	1.85	0.41
1:2:855:ARG:HA	1:2:858:ARG:HG2	2.02	0.41
2:3:43:ARG:HE	2:3:47:VAL:HG13	1.84	0.41
2:3:195:LYS:CD	6:7:371:LEU:H	2.27	0.41
3:4:204:LYS:HG3	3:4:205:PHE:N	2.36	0.41
3:4:347:PHE:CD2	3:4:384:LEU:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:637:MET:HB3	3:4:641:THR:HB	2.02	0.41
4:5:165:ILE:CG2	4:5:259:GLN:HB3	2.51	0.41
4:5:432:VAL:HG22	4:5:596:ILE:HD11	2.02	0.41
5:6:173:GLN:HE22	5:6:176:ARG:HA	1.86	0.41
5:6:189:VAL:HG13	5:6:196:LEU:HB3	2.02	0.41
5:6:570:ASN:HB3	5:6:709:PHE:HA	2.02	0.41
6:7:235:LEU:HG	6:7:355:PHE:CE1	2.55	0.41
6:7:239:ILE:HD13	6:7:355:PHE:HD2	1.85	0.41
7:A:84:ARG:NH1	10:D:216:VAL:HG11	2.36	0.41
7:A:176:THR:H	16:N:18:ARG:NH2	2.18	0.41
8:B:139:HIS:ND1	11:E:314:ASP:OD2	2.47	0.41
8:B:152:ARG:NH1	8:B:173:LEU:HA	2.36	0.41
11:E:131:LEU:HD22	11:E:135:PHE:HE2	1.84	0.41
11:E:359:LEU:O	11:E:362:MET:HG3	2.21	0.41
11:E:392:PHE:HB3	11:E:396:LEU:HG	2.03	0.41
11:E:535:ASP:HA	11:E:538:LEU:HD13	2.02	0.41
11:E:579:TYR:CD2	11:E:634:ARG:HA	2.54	0.41
11:E:608:ALA:HB2	11:E:649:LEU:HD11	2.02	0.41
12:F:590:VAL:HB	12:F:598:ARG:HB2	2.03	0.41
12:F:621:GLN:HB2	12:F:689:PHE:CD2	2.55	0.41
12:G:538:PHE:CD1	12:G:583:ALA:HB3	2.55	0.41
12:H:484:THR:HG22	12:H:764:PRO:HD2	2.02	0.41
12:H:589:ILE:HA	12:H:598:ARG:O	2.20	0.41
12:H:821:MET:O	12:H:824:GLU:HB3	2.21	0.41
12:H:837:LEU:HB2	12:H:855:LEU:HD13	2.01	0.41
15:M:1387:PRO:O	15:M:1391:ASN:ND2	2.54	0.41
15:M:1484:ILE:HG23	15:M:1589:LEU:HB3	2.02	0.41
15:M:1502:PHE:CG	15:M:1509:ILE:HD12	2.56	0.41
15:M:2129:SER:HA	15:M:2136:ALA:HA	2.03	0.41
16:N:67:ALA:O	16:N:71:LYS:HG2	2.21	0.41
16:N:80:ASP:O	16:N:84:VAL:HG23	2.20	0.41
16:N:325:MET:HB2	16:N:609:GLN:OE1	2.20	0.41
1:2:292:GLU:OE1	1:2:294:HIS:ND1	2.54	0.41
1:2:339:PHE:HB2	1:2:351:PHE:HZ	1.85	0.41
1:2:523:VAL:N	1:2:818:GLU:OE1	2.54	0.41
2:3:425:THR:O	2:3:657:ARG:NH2	2.53	0.41
2:3:563:GLU:O	2:3:567:ARG:NE	2.35	0.41
2:3:586:LEU:H	2:3:586:LEU:HD23	1.86	0.41
2:3:679:ILE:HG12	2:3:705:LEU:CD2	2.51	0.41
3:4:213:GLU:O	3:4:216:ILE:HG12	2.21	0.41
3:4:371:CYS:CB	3:4:377:ASN:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:794:THR:HG22	3:4:796:ARG:H	1.86	0.41
5:6:499:ARG:HG2	5:6:759:ARG:CB	2.51	0.41
5:6:744:PRO:O	5:6:745:PRO:C	2.64	0.41
7:A:135:CYS:O	7:A:139:THR:HG23	2.21	0.41
11:E:640:PHE:HE1	11:E:644:LEU:HD21	1.86	0.41
12:F:482:ALA:HB2	12:F:686:SER:HB3	2.03	0.41
12:F:605:VAL:HG23	12:H:881:LYS:HE3	2.02	0.41
12:G:711:ARG:HD2	12:G:843:ASN:CG	2.45	0.41
12:G:780:VAL:HB	12:G:825:GLU:HG3	2.03	0.41
12:H:535:ASP:N	12:H:547:GLY:O	2.54	0.41
12:H:582:ALA:HB2	12:H:618:LEU:HB3	2.03	0.41
12:H:694:ASP:HB3	12:H:710:TRP:HE1	1.85	0.41
16:N:214:LYS:O	16:N:217:MET:HG3	2.20	0.41
16:N:298:LEU:HD11	16:N:326:VAL:HG12	2.03	0.41
16:N:535:LEU:HD12	16:N:536:SER:N	2.35	0.41
1:2:211:LEU:HA	1:2:214:PHE:CE1	2.56	0.41
1:2:227:TYR:OH	1:2:244:VAL:O	2.39	0.41
1:2:276:MET:O	1:2:279:THR:HB	2.21	0.41
1:2:286:TYR:HA	1:2:289:ILE:HD12	2.03	0.41
1:2:300:PHE:H	1:2:319:ARG:NH1	2.19	0.41
1:2:439:ASN:O	5:6:326:LYS:NZ	2.52	0.41
1:2:463:THR:HA	1:2:468:GLU:HG2	2.03	0.41
1:2:690:GLU:HG2	1:2:694:ARG:NH2	2.36	0.41
1:2:791:ALA:O	1:2:795:ARG:NH1	2.54	0.41
18:2:902:ADP:O2B	5:6:798:ARG:NH2	2.45	0.41
2:3:431:ALA:HB2	2:3:471:CYS:HB2	2.03	0.41
2:3:506:LEU:HD12	6:7:328:PRO:HD3	2.03	0.41
2:3:528:ASP:O	2:3:532:ASN:N	2.45	0.41
2:3:670:GLN:O	2:3:720:THR:OG1	2.37	0.41
3:4:204:LYS:HG3	3:4:205:PHE:H	1.85	0.41
3:4:243:LEU:O	3:4:305:PRO:HA	2.21	0.41
3:4:410:GLN:NE2	3:4:411:THR:O	2.54	0.41
3:4:511:GLU:O	3:4:515:ARG:N	2.43	0.41
3:4:568:GLY:O	3:4:681:ARG:NH2	2.52	0.41
3:4:635:ASP:HB2	3:4:636:LYS:HZ3	1.85	0.41
3:4:772:ARG:NH1	3:4:773:ALA:HB2	2.36	0.41
4:5:175:ARG:O	4:5:250:PHE:HA	2.20	0.41
4:5:236:CYS:HB3	4:5:240:PRO:HB3	2.02	0.41
4:5:372:ASN:ND2	4:5:382:GLU:OE1	2.53	0.41
4:5:595:SER:O	4:5:598:LYS:N	2.54	0.41
5:6:134:LYS:HB3	5:6:137:ARG:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:6:306:LYS:HD2	5:6:320:ASN:C	2.45	0.41
5:6:311:CYS:SG	5:6:344:TRP:HD1	2.44	0.41
5:6:504:PHE:O	5:6:508:LEU:HB2	2.20	0.41
5:6:532:SER:HA	5:6:745:PRO:HD2	2.03	0.41
5:6:680:ALA:HB2	5:6:709:PHE:CZ	2.56	0.41
5:6:706:MET:HA	5:6:709:PHE:HB2	2.03	0.41
6:7:28:PHE:CD2	6:7:62:LYS:HB3	2.56	0.41
6:7:29:LYS:HB2	6:7:32:THR:H	1.85	0.41
6:7:209:GLN:NE2	6:7:224:PRO:HD3	2.36	0.41
6:7:350:ASP:HB2	6:7:384:HIS:CE1	2.56	0.41
6:7:451:ARG:O	6:7:560:ARG:HG3	2.20	0.41
6:7:457:CYS:HB2	6:7:594:PHE:CG	2.56	0.41
6:7:459:MET:CE	6:7:599:LEU:HD13	2.51	0.41
7:A:1:MET:HE1	9:C:29:TYR:O	2.20	0.41
7:A:86:LEU:HD23	10:D:198:ILE:HG23	2.03	0.41
7:A:141:LEU:HD21	10:D:182:TYR:HB2	2.02	0.41
7:A:166:ARG:NH2	7:A:188:GLN:HE21	2.18	0.41
8:B:94:THR:O	8:B:98:LEU:HG	2.20	0.41
8:B:96:LYS:O	8:B:100:ARG:HG3	2.21	0.41
9:C:76:PRO:HA	9:C:77:PRO:HD3	1.96	0.41
9:C:134:GLU:HA	9:C:137:HIS:ND1	2.35	0.41
10:D:93:MET:SD	10:D:94:GLN:HG2	2.61	0.41
10:D:124:LEU:N	10:D:125:PRO:HD2	2.36	0.41
11:E:64:TYR:HB3	11:E:95:PHE:CZ	2.55	0.41
11:E:82:LEU:HD13	11:E:121:TYR:HB2	2.02	0.41
11:E:573:ASP:OD2	11:E:576:THR:N	2.49	0.41
11:E:578:THR:HB	11:E:632:ILE:O	2.20	0.41
11:E:594:THR:O	11:E:598:LYS:HG2	2.21	0.41
11:E:626:GLU:HG3	11:E:629:ILE:H	1.85	0.41
11:E:632:ILE:HD13	11:E:637:LEU:HA	2.03	0.41
12:F:543:GLY:HA3	12:F:556:TYR:CE1	2.56	0.41
12:G:491:ARG:HB2	12:G:505:VAL:HG22	2.03	0.41
12:G:671:ASP:OD1	12:G:672:ALA:N	2.54	0.41
12:G:695:PRO:O	12:G:706:LEU:HD12	2.20	0.41
12:G:722:LEU:HD13	12:G:777:ARG:H	1.86	0.41
12:G:826:GLU:HB3	12:G:829:ARG:HH11	1.86	0.41
13:I:55:DT:H2"	13:I:56:DT:C6	2.56	0.41
15:M:2054:LEU:HD12	15:M:2054:LEU:HA	1.85	0.41
15:M:2100:SER:HB2	15:M:2118:ASP:OD2	2.21	0.41
16:N:19:PRO:HB2	16:N:23:ARG:NH1	2.36	0.41
16:N:37:GLY:HA3	16:N:76:GLY:HA2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:394:PRO:HA	1:2:397:VAL:HB	2.02	0.41
1:2:487:ILE:HG22	1:2:493:ILE:HD12	2.02	0.41
1:2:494:ILE:O	1:2:498:ILE:HG13	2.21	0.41
2:3:344:ASP:HA	2:3:347:ILE:HB	2.02	0.41
2:3:496:THR:CG2	6:7:489:SER:HB2	2.51	0.41
3:4:237:GLY:O	3:4:299:LYS:HD3	2.21	0.41
3:4:312:LYS:HG3	3:4:316:GLU:CG	2.50	0.41
3:4:570:PRO:HD3	3:4:681:ARG:NH1	2.36	0.41
3:4:579:GLN:HB3	3:4:583:LYS:NZ	2.36	0.41
3:4:590:TYR:HE1	3:4:632:ASP:HB2	1.86	0.41
3:4:769:GLU:HG2	3:4:822:VAL:HB	2.03	0.41
4:5:83:PRO:HB2	4:5:297:ILE:HD12	2.02	0.41
4:5:259:GLN:HA	4:5:273:ASN:OD1	2.20	0.41
4:5:355:GLU:CD	4:5:362:ARG:HH22	2.28	0.41
6:7:615:HIS:O	6:7:619:VAL:HG23	2.20	0.41
11:E:27:LEU:HD12	11:E:28:VAL:N	2.36	0.41
11:E:63:GLY:N	11:E:66:GLU:OE1	2.49	0.41
11:E:253:ALA:HA	11:E:273:ASN:ND2	2.35	0.41
11:E:271:TRP:NE1	11:E:411:ARG:HH21	2.18	0.41
12:F:662:PRO:HG3	12:F:683:GLY:HA3	2.03	0.41
12:G:505:VAL:HB	12:G:512:SER:OG	2.21	0.41
12:G:846:GLU:HB3	12:G:849:GLY:HA2	2.03	0.41
12:G:880:GLU:HA	12:G:883:LEU:HD12	2.03	0.41
12:H:581:VAL:HG12	12:H:590:VAL:HG22	2.03	0.41
15:M:1588:PHE:CZ	15:M:1590:LEU:HB2	2.56	0.41
15:M:1885:MET:O	15:M:1889:VAL:HG23	2.21	0.41
15:M:1948:ILE:HG21	15:M:2035:TYR:HD1	1.85	0.41
15:M:2020:LYS:HA	15:M:2023:GLN:HG2	2.02	0.41
15:M:2052:LEU:HA	15:M:2055:VAL:HG22	2.03	0.41
16:N:509:PRO:O	16:N:513:THR:HG23	2.21	0.41
1:2:501:MET:HG2	1:2:515:VAL:HG23	2.03	0.40
2:3:444:ALA:HA	2:3:459:ALA:HA	2.03	0.40
2:3:466:ASP:HB2	2:3:508:ALA:HA	2.03	0.40
2:3:570:ARG:HH22	4:5:623:SER:N	2.18	0.40
3:4:198:LEU:HG	3:4:230:LEU:HD21	2.02	0.40
3:4:256:ASP:HA	3:4:259:HIS:CD2	2.56	0.40
3:4:545:PHE:CE1	3:4:811:MET:HA	2.56	0.40
3:4:601:LEU:HA	3:4:620:ALA:HB3	2.03	0.40
3:4:824:GLU:O	3:4:827:ARG:HG2	2.21	0.40
4:5:398:LYS:HZ1	4:5:614:LEU:HD13	1.87	0.40
4:5:410:ILE:HG22	4:5:411:ASN:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:419:GLY:HA2	20:5:803:AGS:H5'1	2.03	0.40
4:5:679:GLU:O	4:5:683:LEU:HD23	2.20	0.40
5:6:181:LEU:HD12	5:6:182:GLN:N	2.35	0.40
5:6:276:ILE:HG22	5:6:277:ARG:NH2	2.37	0.40
6:7:479:ARG:HA	6:7:479:ARG:HD2	1.74	0.40
6:7:523:ILE:O	6:7:566:ALA:HB2	2.21	0.40
7:A:54:LEU:CA	7:A:57:GLN:HB2	2.49	0.40
7:A:58:GLN:HG2	7:A:62:MET:O	2.21	0.40
11:E:76:ASP:HB2	11:E:117:ARG:HE	1.85	0.40
12:F:486:PHE:HA	12:F:492:ARG:HD2	2.03	0.40
12:F:652:LYS:CG	12:F:655:CYS:HB2	2.50	0.40
15:M:1320:SER:OG	15:M:1341:THR:O	2.28	0.40
15:M:1358:TYR:HA	15:M:1404:GLU:N	2.36	0.40
15:M:1499:PHE:HB3	15:M:1512:LEU:HB3	2.02	0.40
15:M:1666:ASP:HB3	16:N:450:ARG:CB	2.50	0.40
15:M:2202:LYS:HB3	15:M:2206:LYS:NZ	2.36	0.40
16:N:299:GLU:HA	16:N:304:SER:HA	2.03	0.40
16:N:463:ASP:HB3	16:N:515:LYS:NZ	2.36	0.40
16:N:490:LEU:HG	16:N:491:TRP:CE3	2.57	0.40
1:2:661:LEU:HB3	1:2:666:ASN:HD21	1.86	0.40
2:3:196:LEU:HD13	2:3:250:PHE:CE1	2.56	0.40
2:3:199:SER:O	2:3:211:TYR:HA	2.21	0.40
2:3:312:ASN:ND2	4:5:303:SER:C	2.79	0.40
2:3:493:GLN:HB3	2:3:509:ARG:HB3	2.02	0.40
2:3:535:LEU:HA	2:3:536:PRO:HD3	1.98	0.40
3:4:727:LEU:O	3:4:730:GLU:HG3	2.22	0.40
4:5:178:TYR:CD2	4:5:248:SER:HA	2.56	0.40
4:5:258:LEU:N	4:5:276:MET:HE1	2.36	0.40
4:5:675:ARG:HH21	4:5:679:GLU:N	2.19	0.40
4:5:714:PHE:O	4:5:717:GLU:HG3	2.21	0.40
5:6:178:LEU:HD23	5:6:178:LEU:HA	1.94	0.40
5:6:356:TRP:HE1	5:6:380:ILE:HA	1.85	0.40
6:7:471:LYS:HG3	6:7:475:LYS:NZ	2.36	0.40
7:A:76:LEU:HA	7:A:79:MET:HG2	2.04	0.40
7:A:157:PRO:HA	7:A:158:PRO:HD3	1.87	0.40
11:E:100:PRO:O	11:E:104:VAL:N	2.49	0.40
11:E:313:PRO:HA	11:E:414:GLY:HA2	2.04	0.40
11:E:537:ASP:HA	11:E:540:ARG:NE	2.36	0.40
12:F:638:TYR:HD2	12:F:657:LEU:HB2	1.86	0.40
12:G:741:HIS:HB2	12:G:757:VAL:HG23	2.04	0.40
15:M:1357:ILE:O	15:M:1405:SER:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M:1862:ASP:C	15:M:1864:ASN:H	2.27	0.40
15:M:2026:ILE:O	15:M:2027:LEU:HB2	2.21	0.40
15:M:2071:GLU:OE1	15:M:2071:GLU:N	2.52	0.40
1:2:287:ALA:C	1:2:288:ARG:HG3	2.47	0.40
1:2:333:GLN:O	1:2:382:TYR:HA	2.21	0.40
1:2:404:ARG:HH11	5:6:299:GLU:HA	1.86	0.40
1:2:624:MET:HE1	1:2:676:ARG:HB2	2.04	0.40
1:2:671:GLU:N	1:2:672:PRO:HD2	2.36	0.40
1:2:689:GLU:O	1:2:692:ASP:N	2.54	0.40
2:3:161:PHE:HB3	2:3:164:HIS:HB2	2.03	0.40
2:3:261:MET:HB3	2:3:263:GLU:CD	2.45	0.40
4:5:152:ASP:OD2	4:5:154:GLU:HB3	2.21	0.40
4:5:323:ILE:C	4:5:324:ARG:HD2	2.46	0.40
4:5:411:ASN:HD22	4:5:550:PHE:HE1	1.67	0.40
4:5:430:GLU:HG3	4:5:438:TYR:HB2	2.02	0.40
4:5:668:LEU:O	4:5:669:SER:HB2	2.21	0.40
5:6:395:CYS:N	5:6:462:ILE:HG22	2.36	0.40
5:6:675:ARG:HD3	5:6:675:ARG:H	1.87	0.40
6:7:251:VAL:HG12	6:7:340:VAL:HG22	2.03	0.40
6:7:357:PRO:HA	6:7:374:THR:HA	2.02	0.40
6:7:414:LEU:HD12	6:7:414:LEU:HA	1.83	0.40
6:7:598:PHE:HE1	6:7:722:VAL:HG12	1.87	0.40
7:A:84:ARG:HG3	7:A:85:CYS:N	2.36	0.40
10:D:253:LYS:HZ1	10:D:270:THR:HA	1.84	0.40
11:E:14:LYS:HA	11:E:17:ARG:HG2	2.04	0.40
11:E:326:LEU:HD22	11:E:338:PHE:HA	2.01	0.40
11:E:636:ASP:O	11:E:639:PRO:HD2	2.21	0.40
12:F:636:LEU:HD21	12:F:659:MET:HE3	2.03	0.40
12:F:639:SER:OG	12:F:652:LYS:O	2.24	0.40
12:F:684:ILE:O	12:F:684:ILE:HG13	2.22	0.40
12:H:522:ARG:NH2	12:H:541:GLU:HB2	2.36	0.40
12:H:548:GLN:OE1	12:H:551:THR:N	2.41	0.40
12:H:706:LEU:HD23	12:H:719:LEU:HD12	2.04	0.40
12:H:864:LYS:HZ3	12:H:893:ARG:HH22	1.68	0.40
15:M:1357:ILE:HD13	15:M:1431:ILE:HD13	2.02	0.40
15:M:1478:SER:HB3	15:M:1480:PHE:CD2	2.56	0.40
15:M:1525:ALA:HB1	15:M:1528:LEU:HD22	2.03	0.40
15:M:1721:ILE:HB	15:M:1861:ALA:HB3	2.03	0.40
16:N:13:GLN:HG3	16:N:16:LEU:HB3	2.01	0.40
16:N:431:LEU:HD21	16:N:433:ILE:HG12	2.03	0.40
16:N:433:ILE:O	16:N:435:GLN:NE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:N:505:GLN:CD	16:N:528:ASN:HD22	2.30	0.40
1:2:323:VAL:HB	1:2:391:GLN:HB3	2.04	0.40
1:2:353:GLN:O	1:2:383:ARG:NH2	2.46	0.40
1:2:794:ARG:NH2	1:2:805:ILE:HB	2.28	0.40
1:2:853:VAL:HA	1:2:856:GLN:NE2	2.37	0.40
2:3:700:ARG:HH11	20:7:903:AGS:H8	1.86	0.40
3:4:340:PRO:HB3	5:6:281:SER:HB2	2.04	0.40
3:4:354:HIS:ND1	3:4:373:ARG:HD3	2.36	0.40
3:4:394:LYS:HE2	3:4:418:CYS:SG	2.62	0.40
3:4:522:LEU:HD22	3:4:747:LEU:HD13	2.03	0.40
3:4:704:LEU:HD21	3:4:828:LEU:HD23	2.03	0.40
3:4:912:GLN:HG2	5:6:696:ARG:HB3	2.03	0.40
4:5:370:LEU:O	4:5:374:ILE:HG12	2.20	0.40
4:5:613:ARG:HD2	4:5:614:LEU:N	2.35	0.40
4:5:634:LEU:O	4:5:637:GLU:HG2	2.21	0.40
4:5:655:ALA:HA	4:5:658:ARG:HB3	2.03	0.40
5:6:635:ILE:HA	5:6:677:SER:O	2.22	0.40
5:6:762:LYS:HA	5:6:763:PRO:HD3	1.97	0.40
6:7:28:PHE:O	6:7:62:LYS:N	2.46	0.40
6:7:121:ILE:CA	6:7:125:MET:HE2	2.52	0.40
6:7:518:ASN:HA	6:7:561:THR:HA	2.04	0.40
8:B:126:LEU:HB3	8:B:134:PHE:CZ	2.57	0.40
11:E:251:ILE:HA	11:E:254:GLN:HE22	1.86	0.40
11:E:381:ASP:O	11:E:385:LYS:HG3	2.22	0.40
12:F:485:PRO:HD2	12:F:763:TRP:CB	2.52	0.40
12:F:685:LYS:HB2	12:F:698:PHE:CD2	2.46	0.40
12:G:614:PRO:HD2	12:G:631:SER:HB2	2.04	0.40
12:H:625:VAL:HG12	12:H:643:LEU:HG	2.03	0.40
15:M:1322:TRP:CD1	15:M:1325:LEU:HD13	2.56	0.40
15:M:1498:PHE:HA	15:M:1513:VAL:HA	2.02	0.40
15:M:2012:MET:SD	15:M:2013:LYS:N	2.94	0.40
15:M:2026:ILE:HA	15:M:2032:GLU:OE2	2.21	0.40
15:M:2139:GLN:O	15:M:2143:GLN:HG3	2.21	0.40
1:2:178:ARG:HA	1:2:205:ARG:CB	2.52	0.40
2:3:49:ASN:HA	2:3:91:ILE:HD12	2.04	0.40
2:3:686:LEU:HD21	2:3:734:ARG:HH12	1.86	0.40
3:4:271:ILE:HD12	3:4:271:ILE:HA	1.98	0.40
3:4:363:GLY:HA2	5:6:436:GLY:N	2.36	0.40
3:4:387:ASN:HA	5:6:403:VAL:CG1	2.52	0.40
3:4:631:ILE:HB	3:4:634:PHE:HD2	1.87	0.40
3:4:797:GLN:O	3:4:800:SER:OG	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:907:LEU:HD22	3:4:924:ARG:HG2	2.04	0.40
4:5:29:LYS:HD2	4:5:32:LYS:NZ	2.37	0.40
4:5:82:GLU:OE1	4:5:85:ASP:HB2	2.21	0.40
4:5:197:PHE:HA	4:5:329:LYS:NZ	2.36	0.40
4:5:293:THR:N	4:5:334:GLN:O	2.53	0.40
4:5:413:LEU:HD13	4:5:552:MET:O	2.21	0.40
4:5:595:SER:O	4:5:598:LYS:HG3	2.21	0.40
5:6:159:SER:OG	5:6:160:MET:SD	2.79	0.40
5:6:649:GLN:O	5:6:652:ILE:HG12	2.22	0.40
5:6:778:LYS:HB3	5:6:782:LYS:HZ3	1.87	0.40
6:7:121:ILE:HA	6:7:125:MET:HE2	2.03	0.40
6:7:454:ILE:HD12	6:7:695:LEU:HD23	2.03	0.40
6:7:499:LYS:HZ3	13:I:51:DT:H2"	1.86	0.40
6:7:615:HIS:HA	6:7:626:PRO:HB3	2.03	0.40
6:7:622:HIS:HB3	6:7:624:LYS:NZ	2.36	0.40
12:F:543:GLY:HA3	12:F:556:TYR:HE1	1.87	0.40
12:H:899:VAL:O	12:H:903:GLU:OE1	2.40	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	2	664/868 (76%)	621 (94%)	42 (6%)	1 (0%)	43	77
2	3	629/971 (65%)	580 (92%)	49 (8%)	0	100	100
3	4	658/933 (70%)	616 (94%)	40 (6%)	2 (0%)	36	71
4	5	662/775 (85%)	609 (92%)	50 (8%)	3 (0%)	24	63
5	6	619/1017 (61%)	547 (88%)	67 (11%)	5 (1%)	16	53
6	7	622/845 (74%)	570 (92%)	47 (8%)	5 (1%)	16	53
7	A	196/208 (94%)	183 (93%)	12 (6%)	1 (0%)	24	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	B	189/213 (89%)	184 (97%)	5 (3%)	0	100	100
9	C	166/194 (86%)	164 (99%)	2 (1%)	0	100	100
10	D	237/294 (81%)	230 (97%)	7 (3%)	0	100	100
11	E	560/650 (86%)	548 (98%)	12 (2%)	0	100	100
12	F	418/927 (45%)	404 (97%)	14 (3%)	0	100	100
12	G	416/927 (45%)	408 (98%)	8 (2%)	0	100	100
12	H	419/927 (45%)	410 (98%)	9 (2%)	0	100	100
15	M	800/2222 (36%)	725 (91%)	72 (9%)	3 (0%)	30	67
16	N	517/689 (75%)	490 (95%)	27 (5%)	0	100	100
All	All	7772/12660 (61%)	7289 (94%)	463 (6%)	20 (0%)	37	71

All (20) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	6	178	LEU
5	6	714	VAL
15	M	1945	LEU
4	5	669	SER
5	6	744	PRO
15	M	1346	VAL
3	4	374	ILE
5	6	736	MET
6	7	411	TYR
6	7	704	LEU
7	A	62	MET
6	7	550	LYS
1	2	423	GLU
3	4	532	GLU
4	5	594	ILE
5	6	745	PRO
6	7	292	ASN
15	M	1347	GLN
6	7	631	THR
4	5	738	VAL

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	2	578/770 (75%)	577 (100%)	1 (0%)	87	85
2	3	541/835 (65%)	539 (100%)	2 (0%)	84	82
3	4	614/848 (72%)	614 (100%)	0	100	100
4	5	602/688 (88%)	602 (100%)	0	100	100
5	6	543/886 (61%)	535 (98%)	8 (2%)	57	70
6	7	544/753 (72%)	535 (98%)	9 (2%)	53	67
7	A	184/193 (95%)	168 (91%)	16 (9%)	9	29
8	B	183/198 (92%)	183 (100%)	0	100	100
9	C	155/173 (90%)	155 (100%)	0	100	100
10	D	234/279 (84%)	234 (100%)	0	100	100
11	E	510/586 (87%)	510 (100%)	0	100	100
12	F	375/825 (46%)	375 (100%)	0	100	100
12	G	372/825 (45%)	372 (100%)	0	100	100
12	H	375/825 (46%)	375 (100%)	0	100	100
15	M	713/2014 (35%)	698 (98%)	15 (2%)	47	65
16	N	467/629 (74%)	466 (100%)	1 (0%)	87	85
All	All	6990/11327 (62%)	6938 (99%)	52 (1%)	73	79

All (52) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	2	788	ARG
2	3	415	LYS
2	3	417	GLN
5	6	731	ILE
5	6	732	VAL
5	6	733	ASP
5	6	738	ARG
5	6	740	GLU

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Mol	Chain	Res	Type
5	6	742	ILE
5	6	743	GLU
5	6	747	SER
6	7	416	LYS
6	7	483	THR
6	7	484	THR
6	7	486	LYS
6	7	488	SER
6	7	498	MET
6	7	502	VAL
6	7	706	ASP
6	7	707	MET
7	A	47	LEU
7	A	48	ARG
7	A	54	LEU
7	A	55	LYS
7	A	56	GLU
7	A	58	GLN
7	A	60	LEU
7	A	62	MET
7	A	66	LYS
7	A	69	LYS
7	A	73	PHE
7	A	75	THR
7	A	108	ASP
7	A	117	GLN
7	A	118	GLN
7	A	119	ASP
15	M	1343	ASN
15	M	1345	LYS
15	M	1349	ILE
15	M	1350	THR
15	M	1351	PHE
15	M	1353	ILE
15	M	1408	LEU
15	M	1409	GLU
15	M	1411	LYS
15	M	1415	THR
15	M	1417	ILE
15	M	1942	LYS
15	M	1946	SER
15	M	2016	LYS

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Mol	Chain	Res	Type
15	M	2026	ILE
16	N	267	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (80) such sidechains are listed below:

Mol	Chain	Res	Type
1	2	248	HIS
1	2	366	ASN
1	2	391	GLN
1	2	641	GLN
1	2	658	ASN
1	2	746	GLN
2	3	29	GLN
2	3	49	ASN
2	3	52	ASN
2	3	164	HIS
2	3	201	HIS
2	3	269	GLN
2	3	424	ASN
2	3	493	GLN
2	3	670	GLN
2	3	682	ASN
2	3	691	ASN
3	4	576	GLN
3	4	666	ASN
3	4	691	ASN
3	4	757	HIS
3	4	858	GLN
4	5	24	ASN
4	5	284	ASN
4	5	344	ASN
4	5	499	GLN
4	5	500	GLN
4	5	574	ASN
4	5	590	ASN
4	5	617	GLN
4	5	685	GLN
5	6	409	GLN
5	6	659	GLN
5	6	730	HIS
5	6	833	GLN
6	7	195	ASN

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Mol	Chain	Res	Type
6	7	209	GLN
6	7	274	ASN
6	7	297	GLN
6	7	334	HIS
7	A	71	GLN
7	A	82	ASN
7	A	122	ASN
7	A	188	GLN
8	B	8	GLN
8	B	167	HIS
8	B	172	ASN
9	C	32	ASN
9	C	130	GLN
9	C	136	ASN
10	D	247	GLN
11	E	126	HIS
11	E	231	HIS
11	E	243	GLN
11	E	497	GLN
11	E	575	ASN
12	G	507	ASN
12	G	563	HIS
12	G	573	GLN
12	G	629	HIS
12	H	510	GLN
12	H	573	GLN
12	H	629	HIS
12	H	632	GLN
12	H	843	ASN
12	H	877	GLN
12	H	915	ASN
15	M	1391	ASN
15	M	1435	GLN
15	M	1703	ASN
15	M	1849	ASN
15	M	1931	GLN
15	M	2001	ASN
15	M	2021	ASN
15	M	2022	GLN
15	M	2030	GLN
15	M	2160	GLN
15	M	2203	GLN

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Mol	Chain	Res	Type
16	N	13	GLN
16	N	505	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 15 ligands modelled in this entry, 11 are monoatomic - leaving 4 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	$\# Z > 2$
18	ADP	3	1001	19	28,29,29	0.55	0	43,45,45	0.50	0
20	AGS	7	903	-	32,33,33	0.65	1 (3%)	45,52,52	0.55	0
18	ADP	2	902	19	28,29,29	0.47	0	43,45,45	0.60	0
20	AGS	5	803	19	32,33,33	0.64	1 (3%)	45,52,52	0.52	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
18	ADP	3	1001	19	-	5/16/32/32	0/3/3/3
20	AGS	7	903	-	-	6/21/38/38	0/3/3/3
18	ADP	2	902	19	-	5/16/32/32	0/3/3/3
20	AGS	5	803	19	-	7/21/38/38	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	7	903	AGS	PG-S1G	2.13	1.95	1.90
20	5	803	AGS	PG-S1G	2.08	1.95	1.90

There are no bond angle outliers.

There are no chirality outliers.

All (23) torsion outliers are listed below:

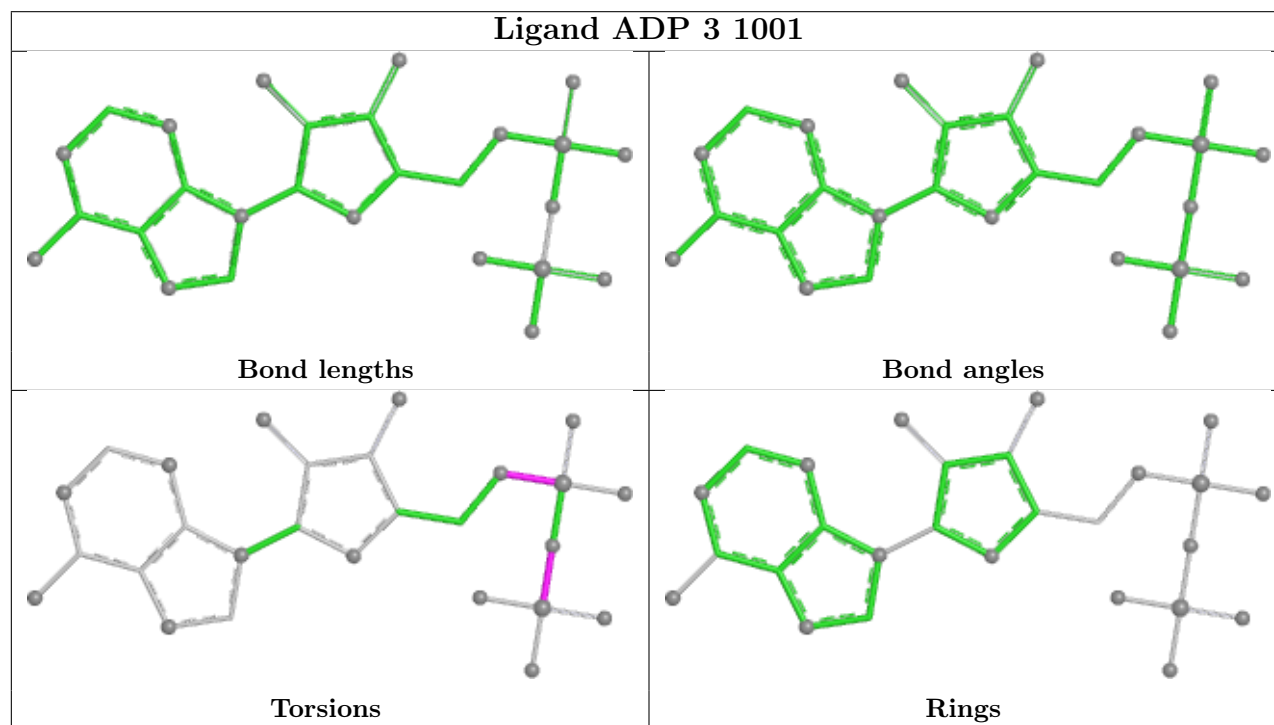
Mol	Chain	Res	Type	Atoms
18	2	902	ADP	PA-O3A-PB-O3B
18	3	1001	ADP	PA-O3A-PB-O2B
18	3	1001	ADP	C5'-O5'-PA-O1A
18	3	1001	ADP	C5'-O5'-PA-O3A
20	5	803	AGS	C5'-O5'-PA-O3A
20	5	803	AGS	O4'-C4'-C5'-O5'
20	7	903	AGS	PB-O3B-PG-O2G
20	7	903	AGS	C5'-O5'-PA-O1A
20	5	803	AGS	C3'-C4'-C5'-O5'
20	7	903	AGS	C3'-C4'-C5'-O5'
20	7	903	AGS	O4'-C4'-C5'-O5'
18	3	1001	ADP	PA-O3A-PB-O1B
20	5	803	AGS	PB-O3A-PA-O5'
20	5	803	AGS	C4'-C5'-O5'-PA
18	3	1001	ADP	C5'-O5'-PA-O2A
20	5	803	AGS	C5'-O5'-PA-O1A
20	7	903	AGS	C4'-C5'-O5'-PA
18	2	902	ADP	O4'-C4'-C5'-O5'
20	7	903	AGS	PB-O3B-PG-O3G
18	2	902	ADP	PA-O3A-PB-O2B
18	2	902	ADP	C3'-C4'-C5'-O5'
18	2	902	ADP	PA-O3A-PB-O1B
20	5	803	AGS	PB-O3A-PA-O1A

There are no ring outliers.

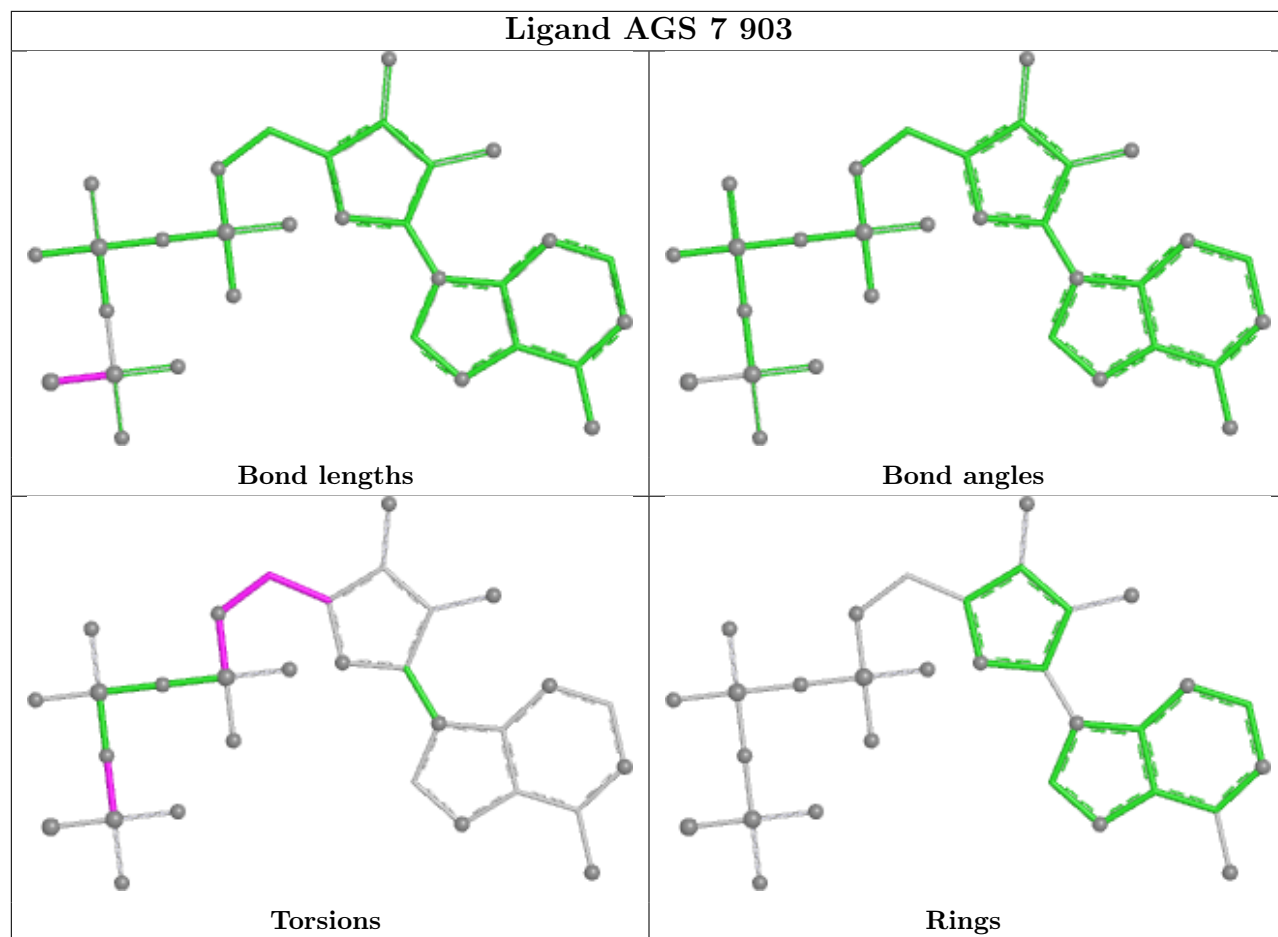
4 monomers are involved in 57 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	3	1001	ADP	16	0
20	7	903	AGS	9	0
18	2	902	ADP	20	0
20	5	803	AGS	12	0

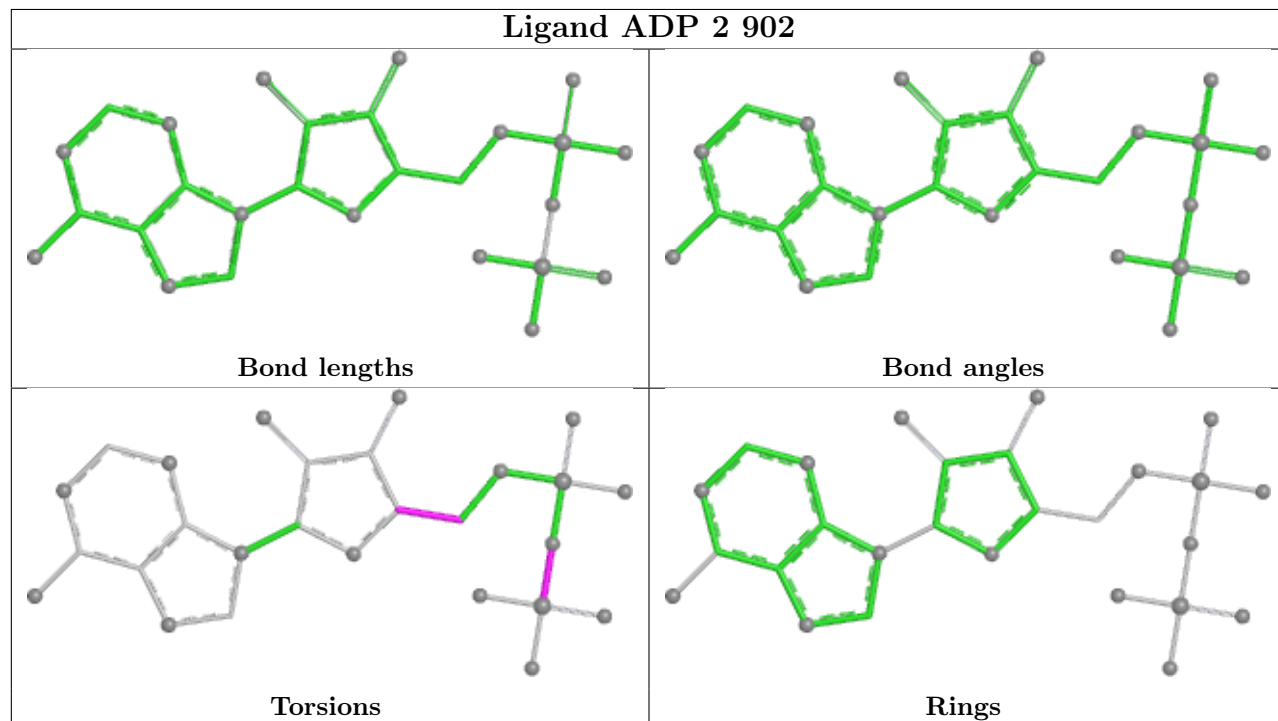
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

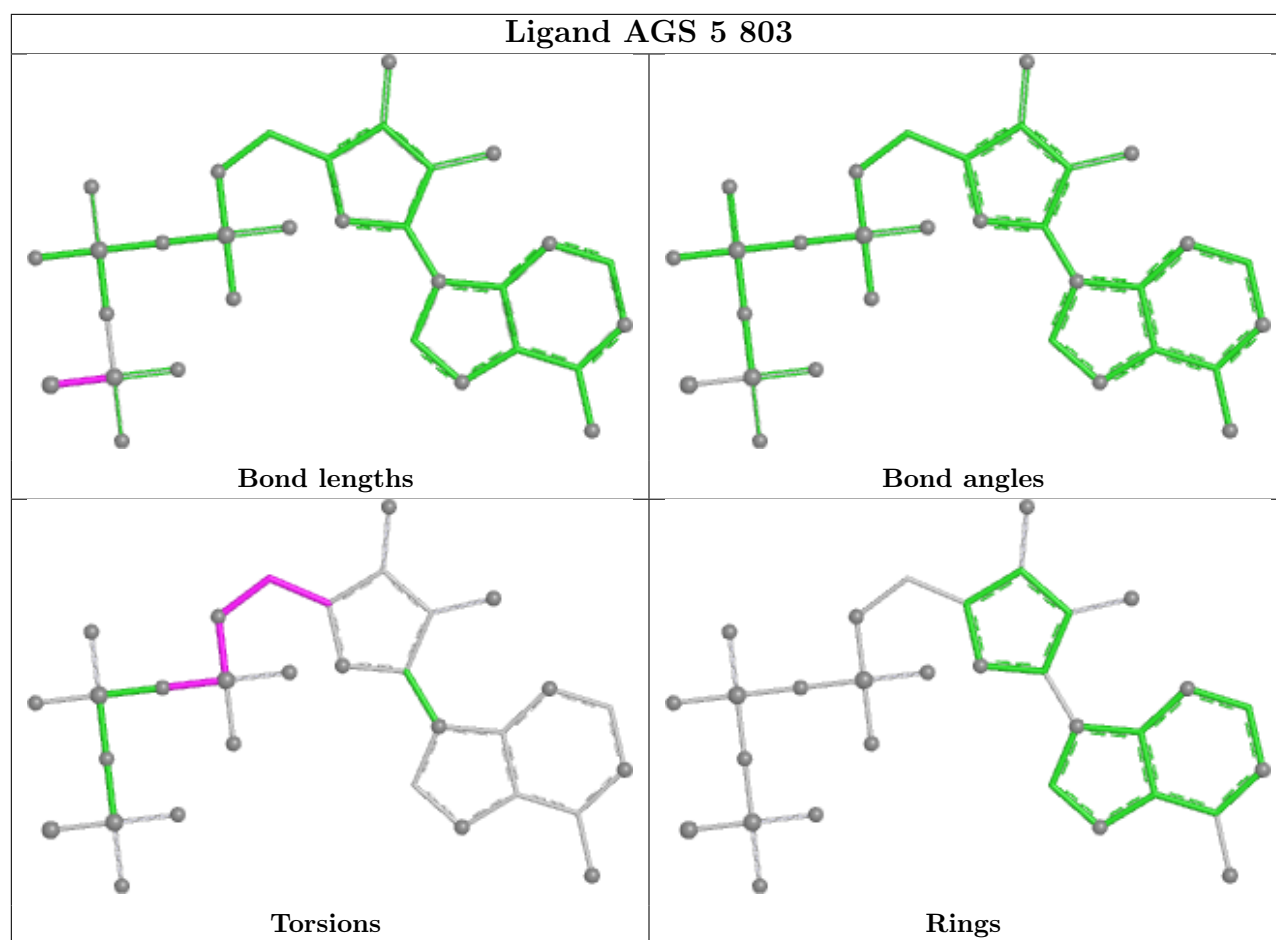


Ligand AGS 7 903



Ligand ADP 2 902





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

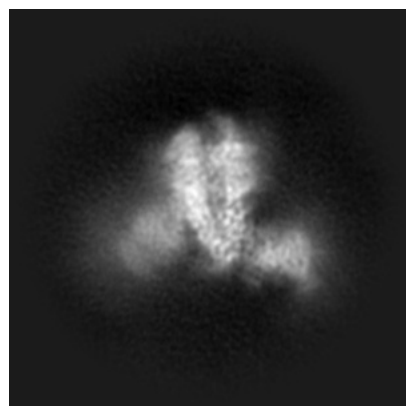
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-37215. These allow visual inspection of the internal detail of the map and identification of artifacts.

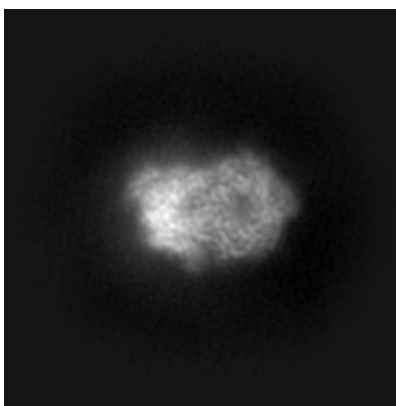
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

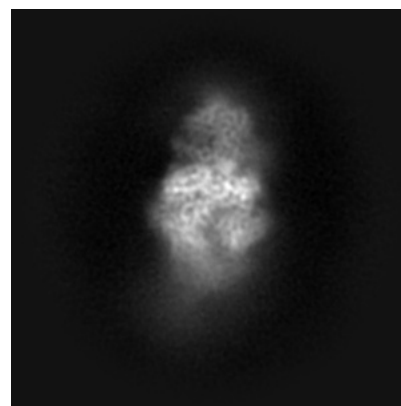
6.1.1 Primary map



X

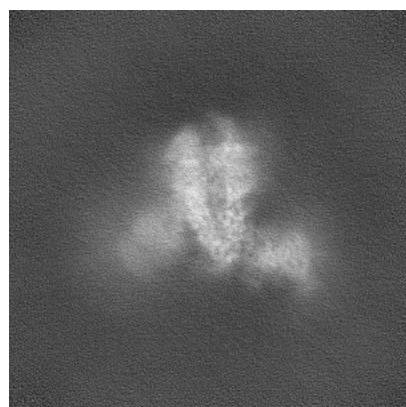


Y

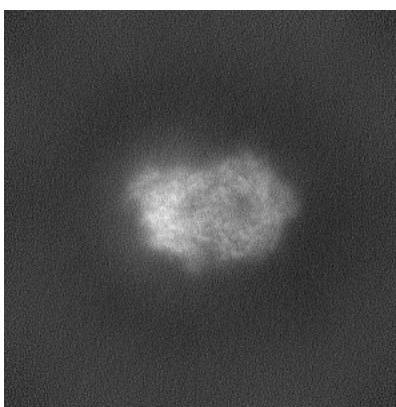


Z

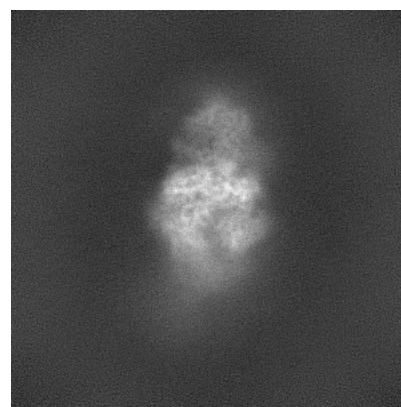
6.1.2 Raw map



X



Y

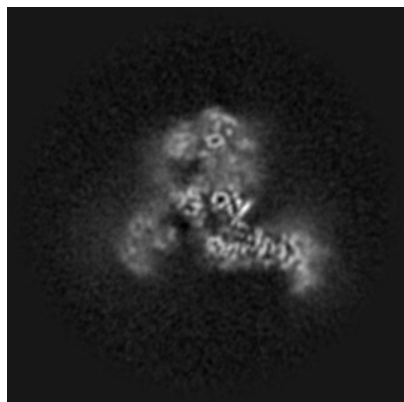


Z

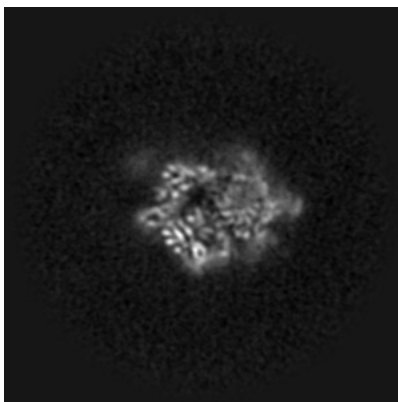
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

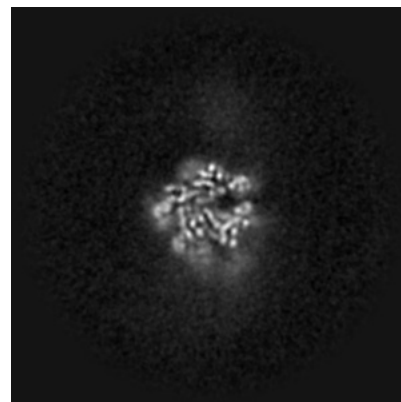
6.2.1 Primary map



X Index: 220

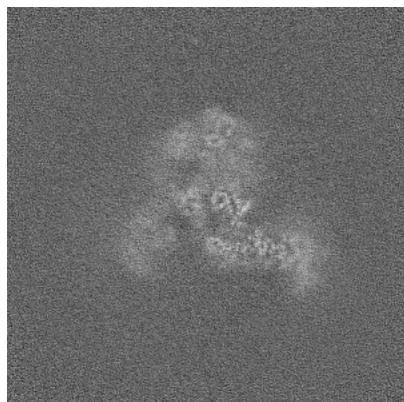


Y Index: 220

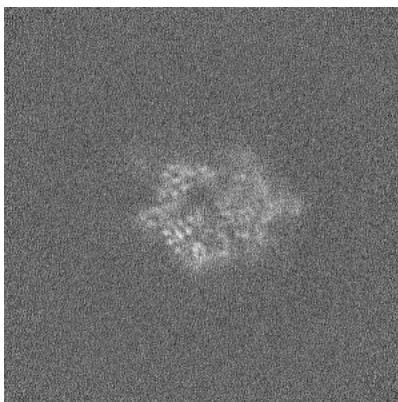


Z Index: 220

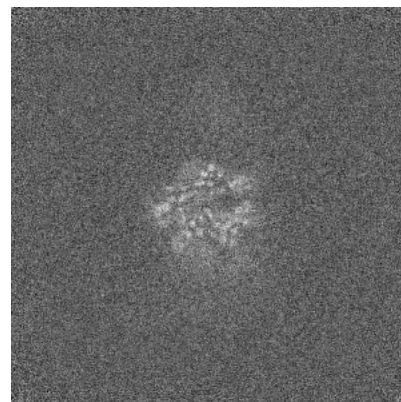
6.2.2 Raw map



X Index: 220



Y Index: 220

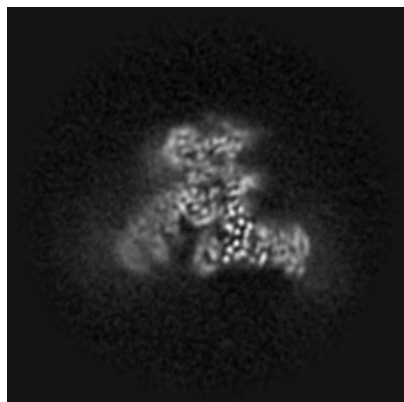


Z Index: 220

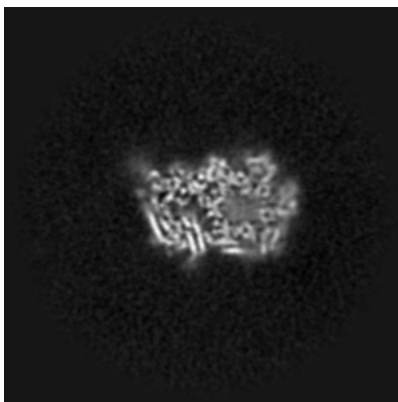
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

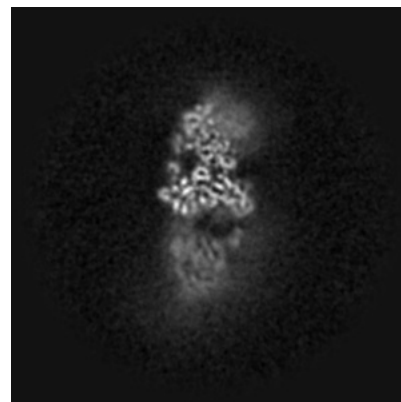
6.3.1 Primary map



X Index: 207

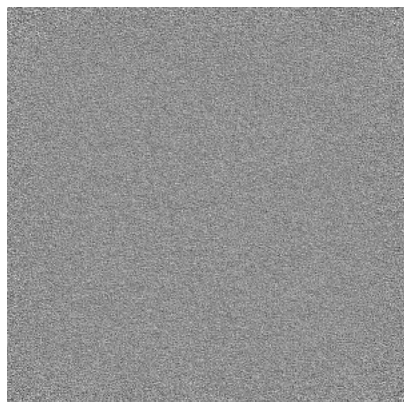


Y Index: 241

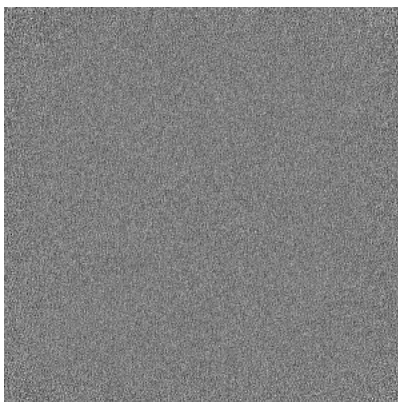


Z Index: 181

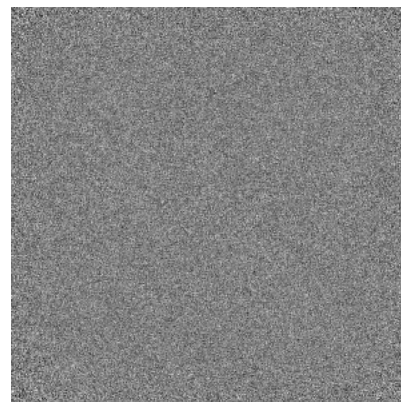
6.3.2 Raw map



X Index: 0



Y Index: 0

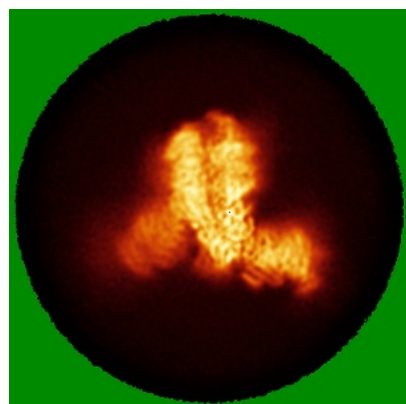


Z Index: 0

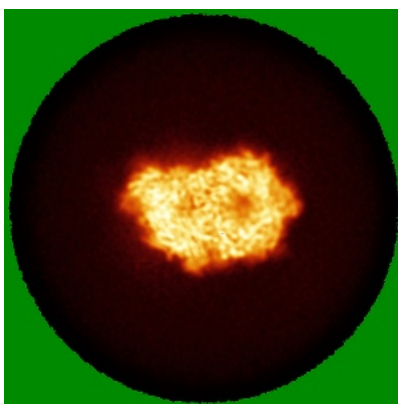
The images above show the largest variance slices of the map in three orthogonal directions.

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

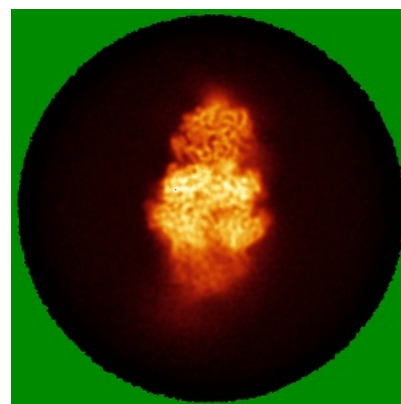
6.4.1 Primary map



X

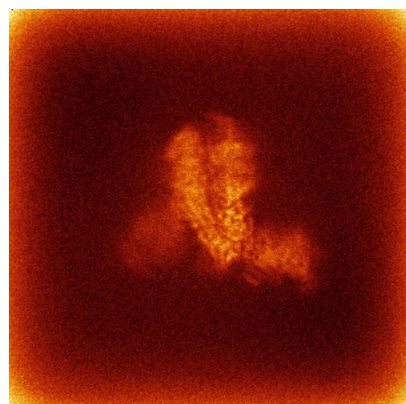


Y

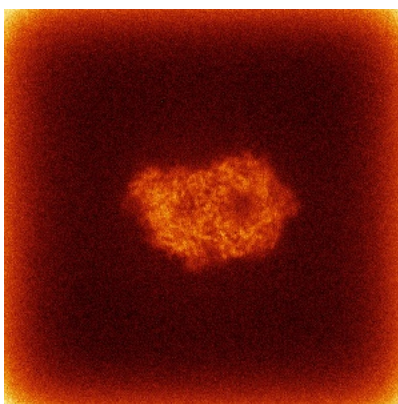


Z

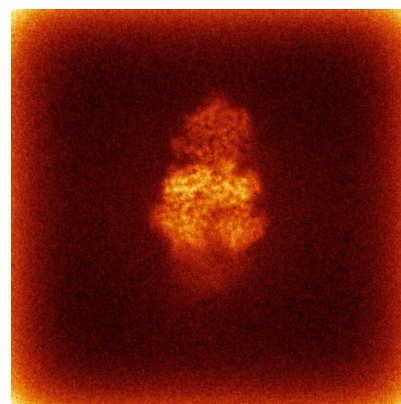
6.4.2 Raw map



X



Y



Z

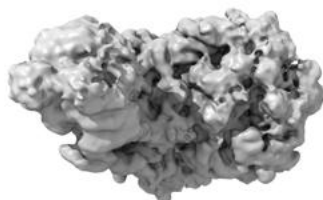
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



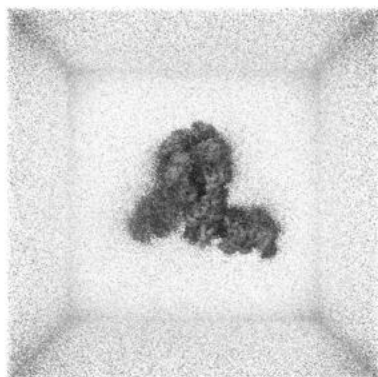
Y



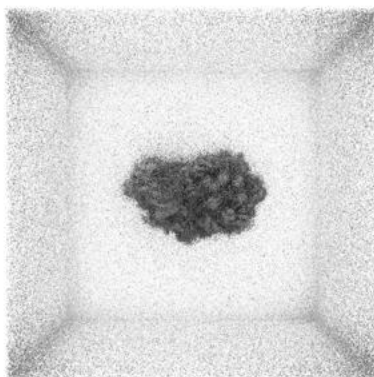
Z

The images above show the 3D surface view of the map at the recommended contour level 0.25. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

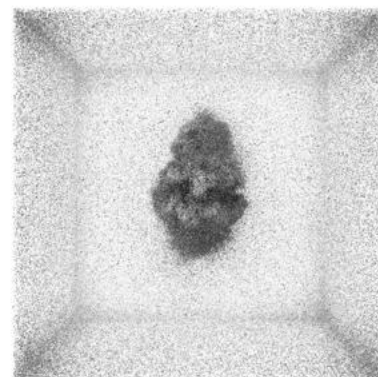
6.5.2 Raw map



X



Y



Z

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

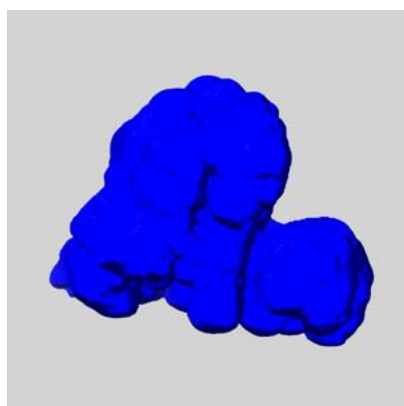
6.6 Mask visualisation [i](#)

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

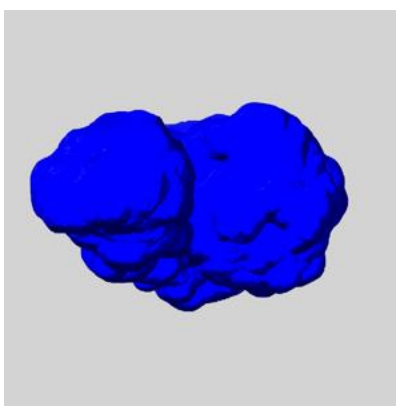
A mask typically either:

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

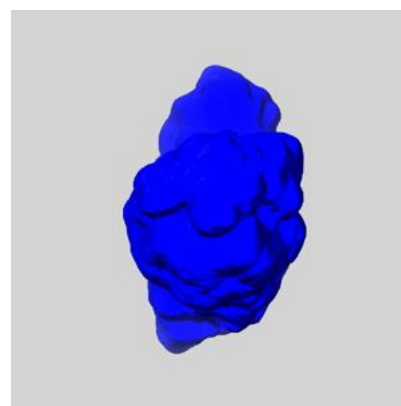
6.6.1 emd_37215_msk_1.map [i](#)



X



Y

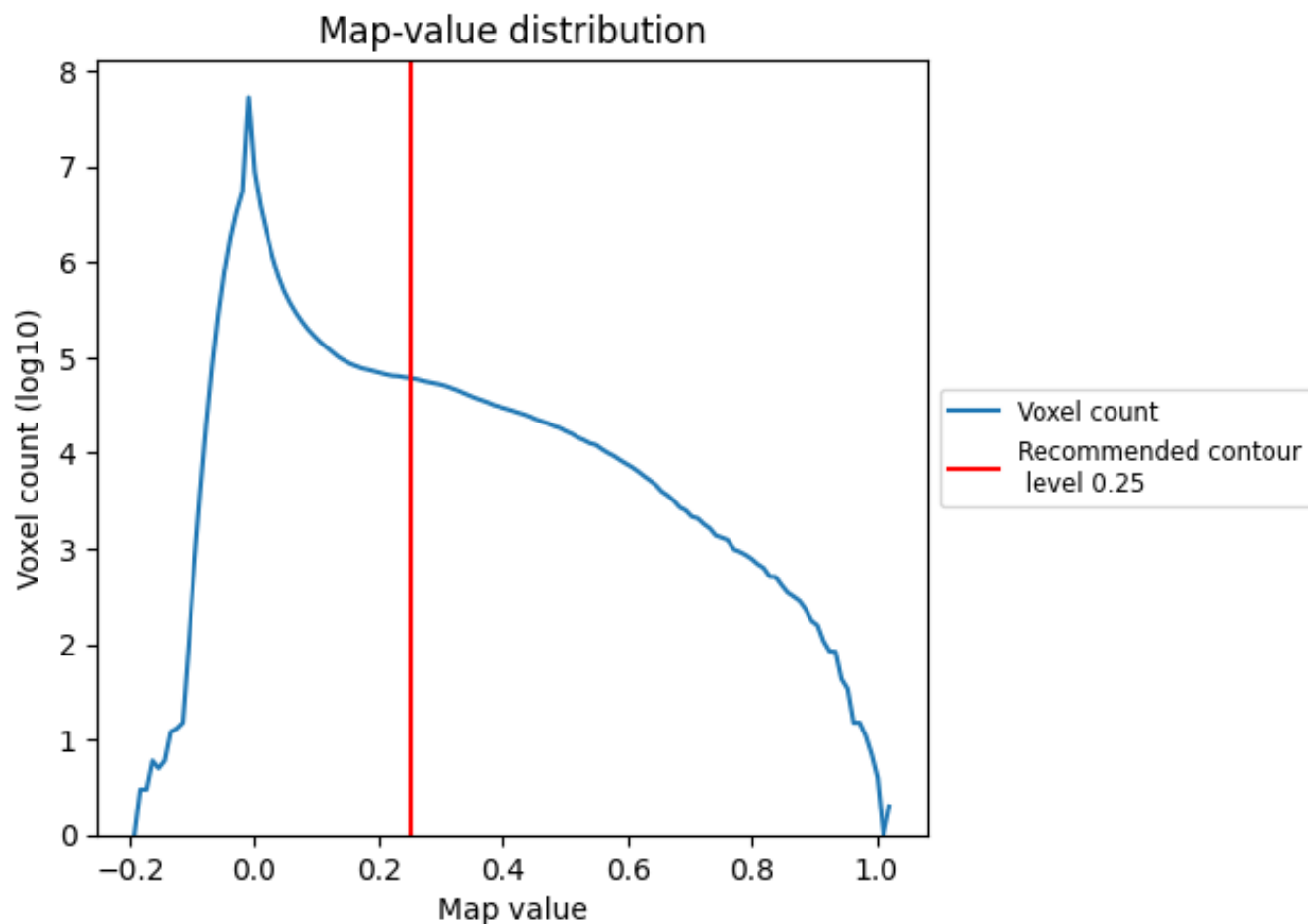


Z

7 Map analysis [i](#)

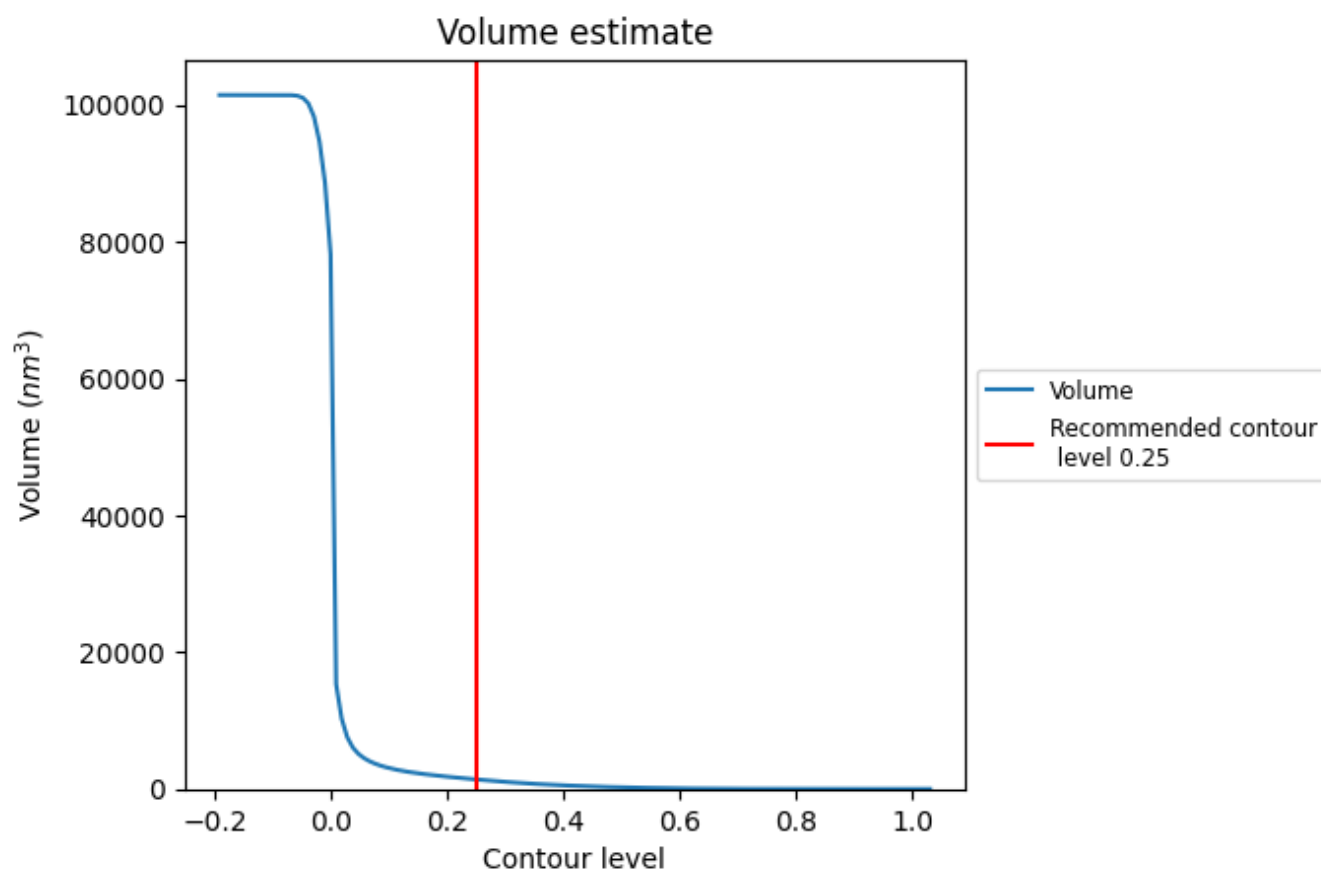
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

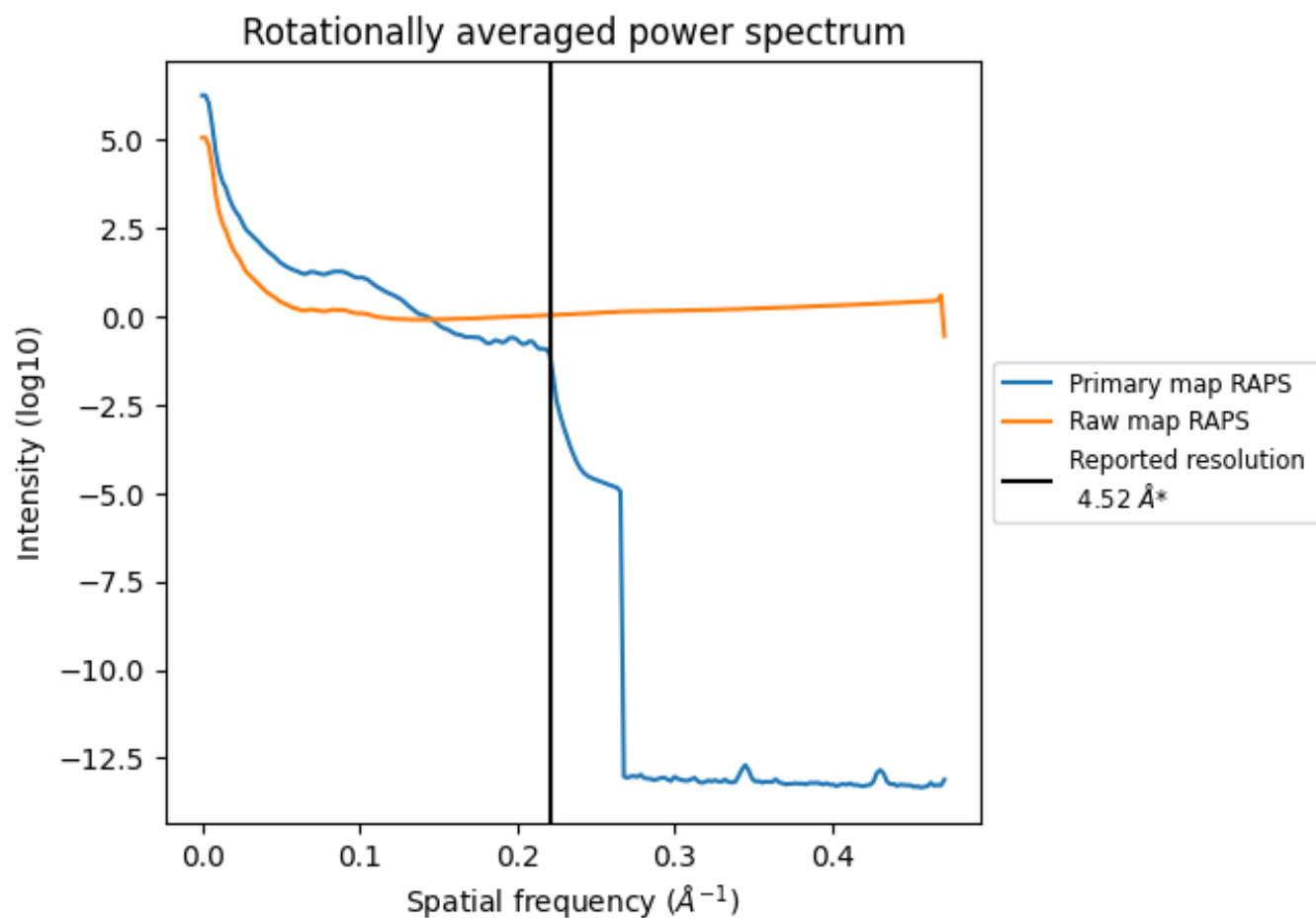
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1385 nm^3 ; this corresponds to an approximate mass of 1251 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 ⓘ

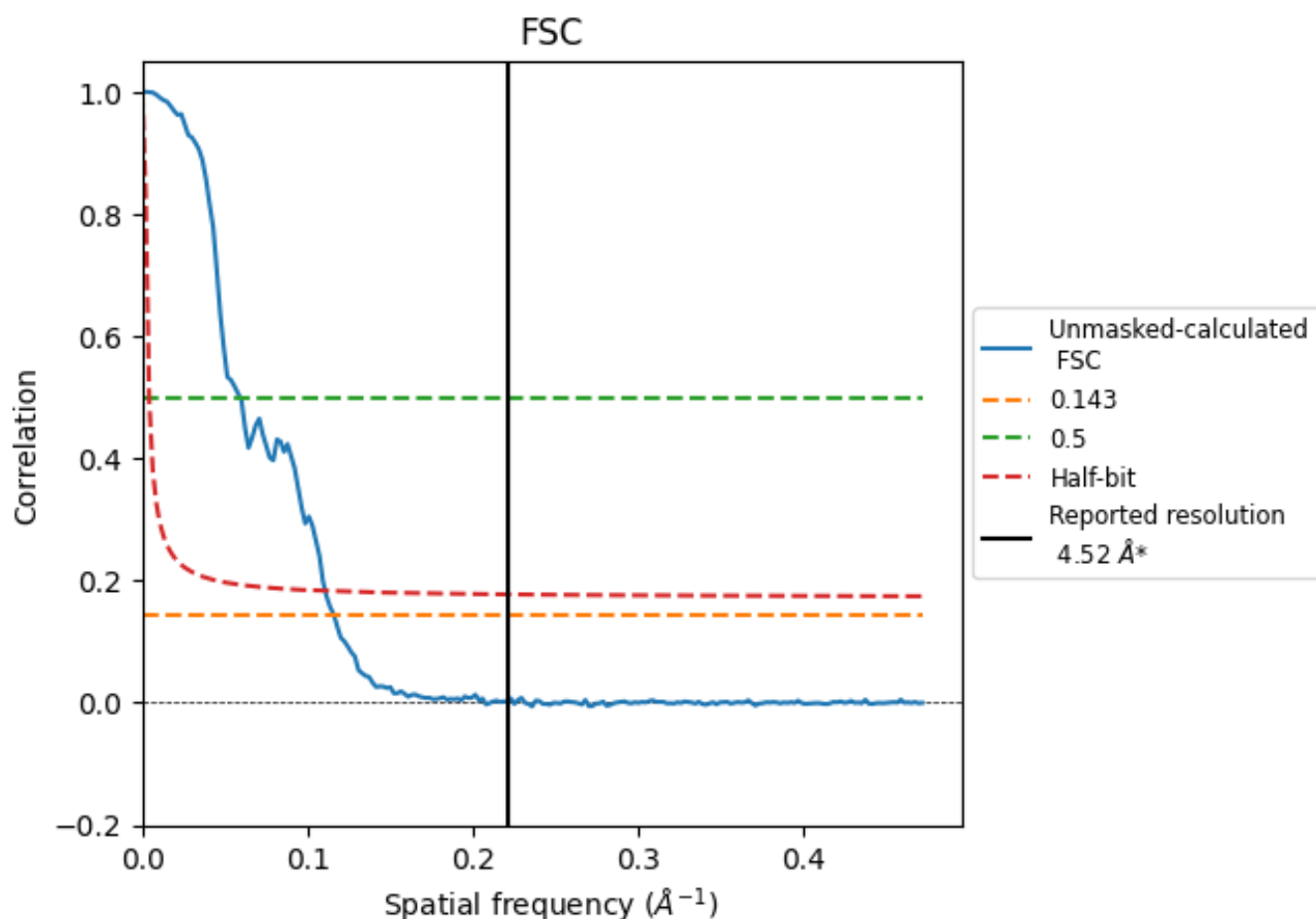


*Reported resolution corresponds to spatial frequency of 0.221 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.221 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

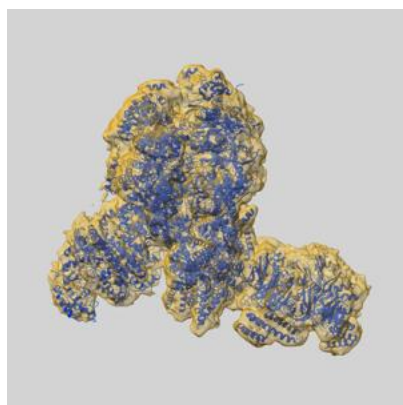
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.52	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	8.62	16.92	9.03

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.62 differs from the reported value 4.52 by more than 10 %

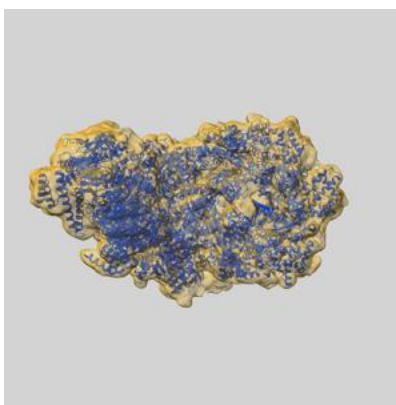
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-37215 and PDB model 8KG9. Per-residue inclusion information can be found in section [3](#) on page [9](#).

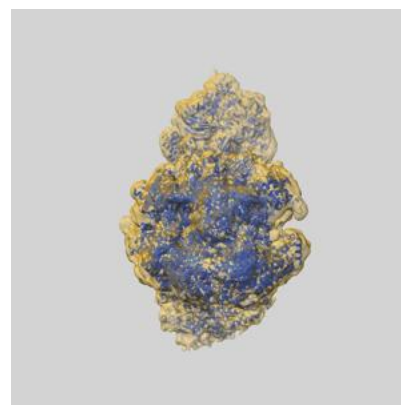
9.1 Map-model overlay [i](#)



X



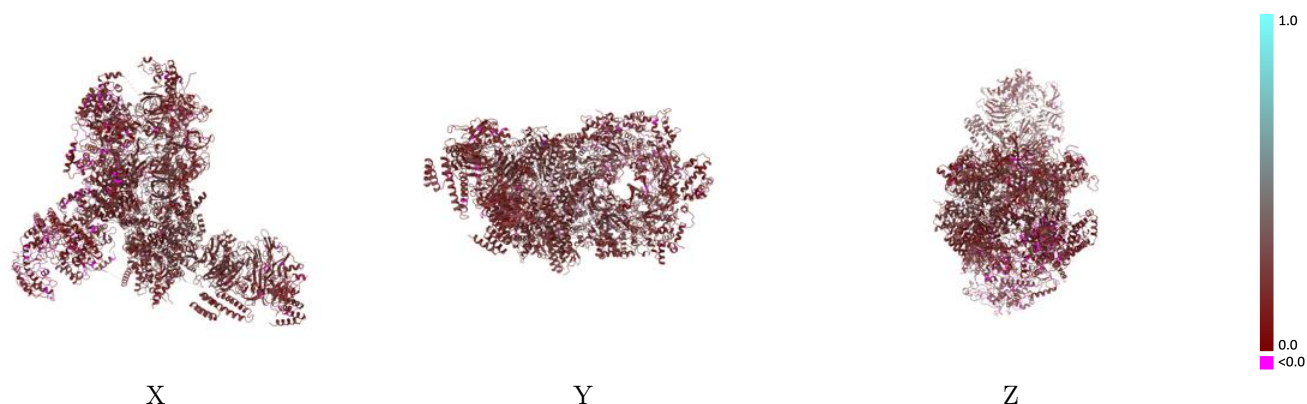
Y



Z

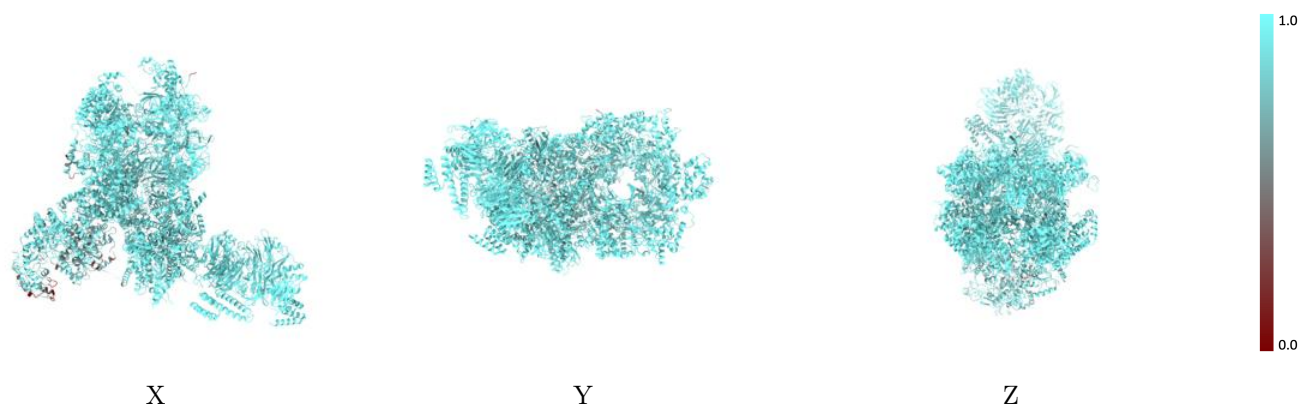
The images above show the 3D surface view of the map at the recommended contour level 0.25 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



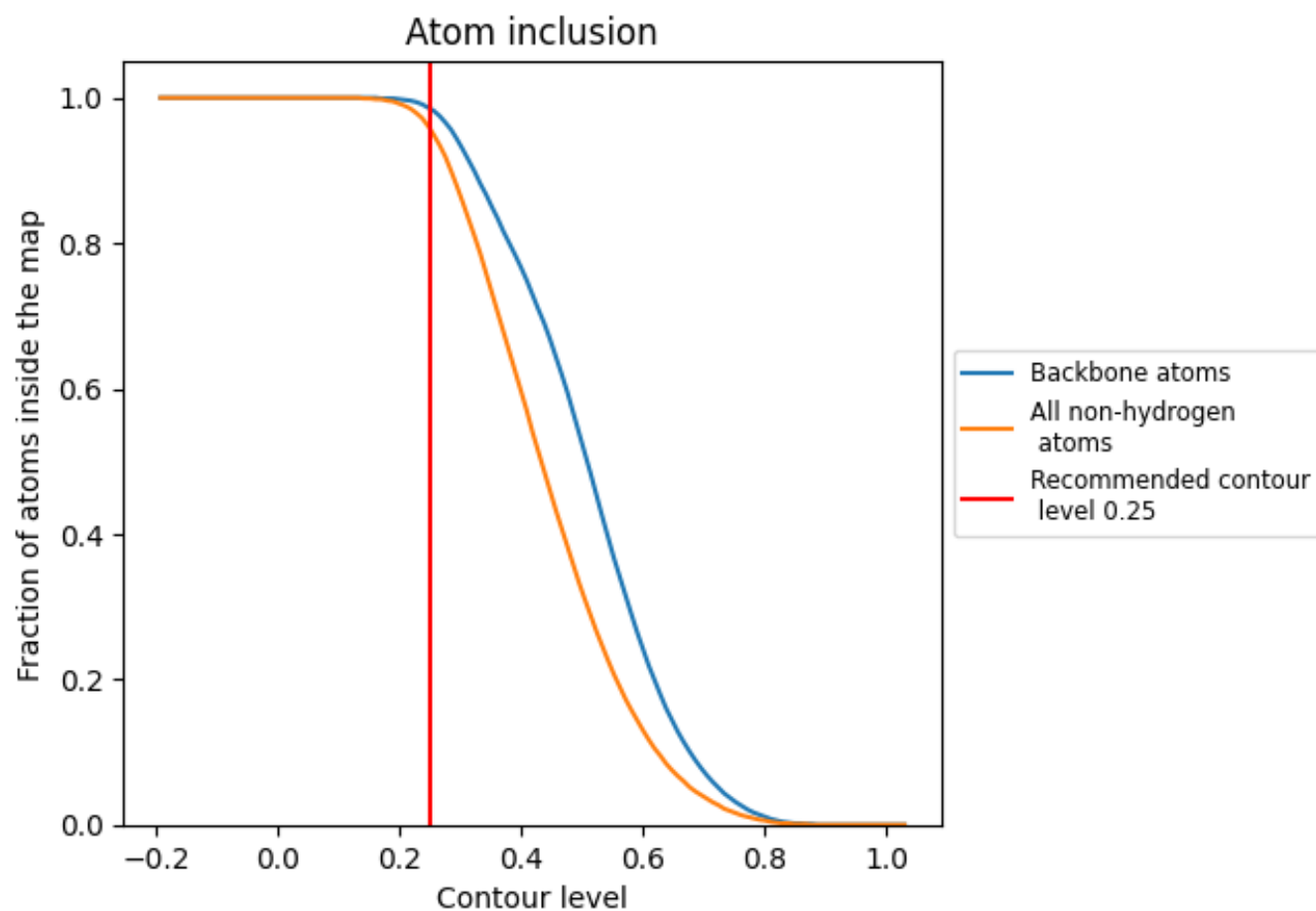
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.25).

9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.25) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9580	 0.1900
2	 0.9700	 0.1940
3	 0.9880	 0.2150
4	 0.9710	 0.1590
5	 0.9620	 0.1950
6	 0.9880	 0.1660
7	 0.9900	 0.1930
A	 0.9760	 0.2100
B	 0.9740	 0.2370
C	 0.9800	 0.2200
D	 0.9800	 0.2310
E	 0.9740	 0.2230
F	 0.9820	 0.2270
G	 0.9940	 0.1930
H	 0.9910	 0.2000
I	 0.9380	 0.1820
J	 0.8110	 0.1360
M	 0.8210	 0.1410
N	 0.9070	 0.1640

