



wwPDB EM Map/Model Validation Report ⓘ

Oct 10, 2016 – 11:35 AM EDT

PDB ID : 5LKI
EMDB ID: : EMD-4068
Title : Cryo-EM structure of the Tc toxin TcdA1 in its pore state
Authors : Gatsogiannis, C.; Merino, F.; Prumbaum, D.; Roderer, D.; Leidreiter, F.;
Meusch, D.; Raunser, S.
Deposited on : 2016-07-22
Resolution : 3.46 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could
stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027939

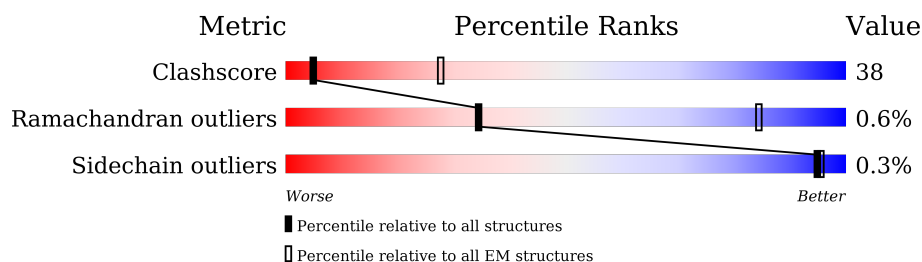
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.46 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	2516	30% 27% . 43%
1	B	2516	30% 27% . 43%
1	C	2516	30% 27% . 43%
1	D	2516	30% 26% . 43%
1	E	2516	29% 27% . 43%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 55415 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.

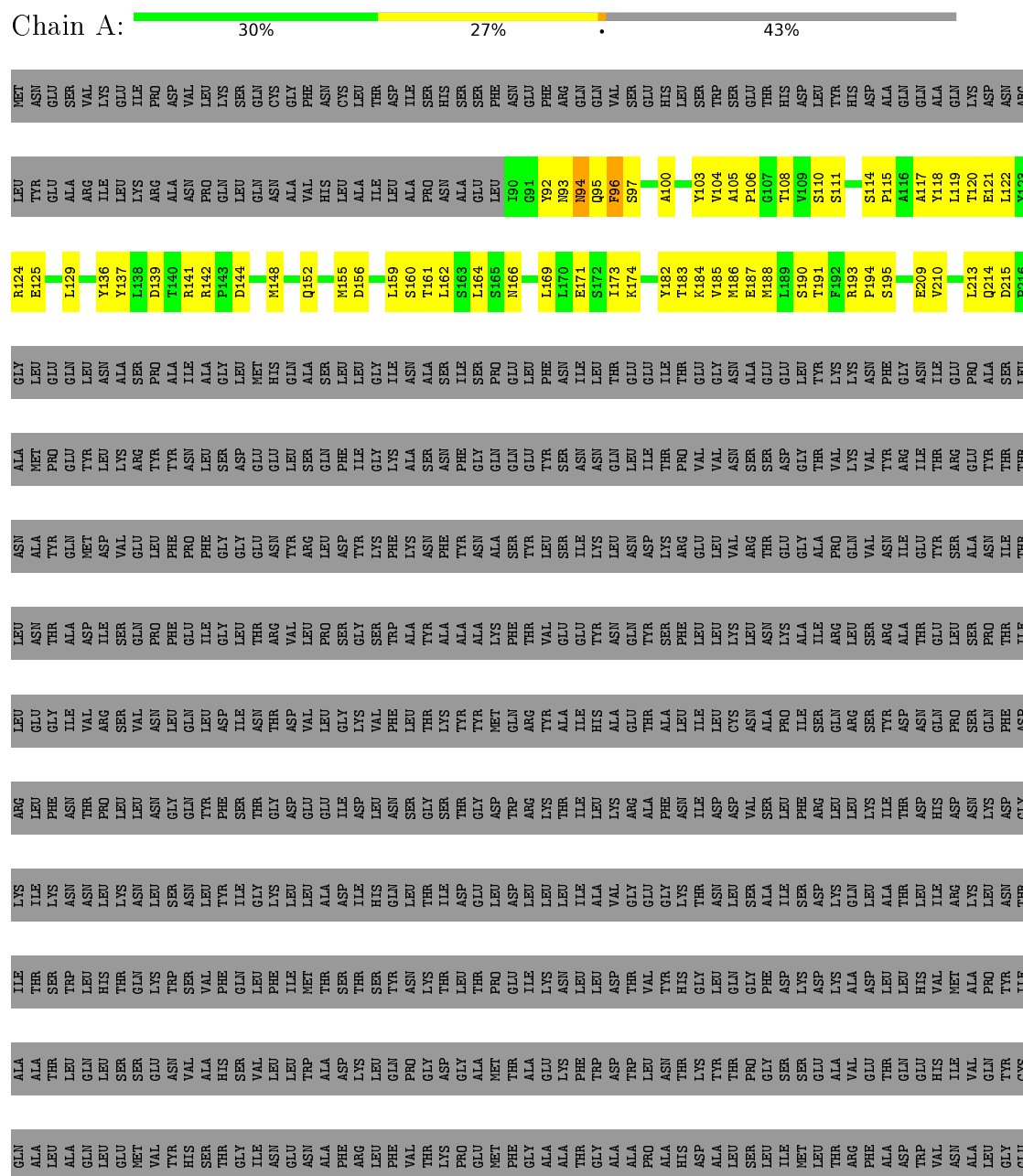
- Molecule 1 is a protein called TcdA1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1427	Total 11083	C 7001	N 1914	O 2130	S 38	0	0
1	B	1427	Total 11083	C 7001	N 1914	O 2130	S 38	0	0
1	C	1427	Total 11083	C 7001	N 1914	O 2130	S 38	0	0
1	D	1427	Total 11083	C 7001	N 1914	O 2130	S 38	0	0
1	E	1427	Total 11083	C 7001	N 1914	O 2130	S 38	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: TcdA1






P1989	K2087	A2176	N2252	V2429
P1992	S2088	D2177	W2253	Q2430
L1995	K2089	K2178	L2254	S2434
L1996	G2091	I2179	L2258	Y2435
G2007	S2094	E2183	F2263	G2436
K2008	R2095	T2184	Q2264	D2437
L2009	R2096	Y2185	F2265	K2438
P2010	D2097	R2186	Y2266	A2439
E2011	S2098	R2187		G2440
S2012	Y2099	R2188	R2272	L2441
F2013		R2189	C2273	A2442
M2014	L2102			N2443
S2015	D2103	W2192	E2277	E2446
L2016	D2104	E2193	Q2278	A2447
W2017	E2105	I2194	A2279	L2448
R2018	N2106	Q2195	Y2280	L2449
F2019	I2107	R2196	R2281	Y2450
P2020	I2108	R2197	W2282	S2451
F2021	A2109	N2198	E2283	H2452
M2022	G2110	A2199	L2284	M2454
E2023	E2111	E2200		
E2024		A2201	D2287	G2458
N2025	A2114	E2202	S2288	Q2459
A2026		L2203	A2289	Q2461
R2027	I2117	Q2204	R2290	
G2028	R2118	Q2205	F2291	
M2029	A2119	I2206	I2292	
F2036	S2120	D2207	K2293	F2464
	A2121	A2208	P2294	N2465
	A2122	Q2209	G2295	D2466
T2039	G2123	L2210	A2296	G2467
I2044	L2124	K2211	W2297	K2468
Q2047	T2125	S2212		P2471
	T2126	L2213	Y2301	F2472
	A2127	A2214	L2305	E2473
	V2128	V2215		G2474
	Q2129	R2216	E2308	I2475
A2054		R2217	T2309	
N2058	P2142	A2218	L2310	T2483
Q2059	N2143	A2219	W2311	
I2070	I2144	Y2221	K2408	S2490
Q2071	W2154	L2222	I2409	Q2497
D2072	G2155	Q2223	S2313	
K2073	A2156	K2224	L2314	
T2074	I2157		E2318	M2500
I2075	A2158	Q2233		L2501
E2076	E2159		K2323	K2502
E2077		S2236	R2324	T2503
L2078	M2165			L2504
D2079	E2166	A2239	R2327	
	F2167		A2328	L2509
	S2168	R2243	L2329	
K2082	A2169	K2244	E2330	R2512
T2083	N2170	F2245	V2331	Y2513
V2084	V2171		E2332	T2514
L2085	M2172	L2250	R2333	I2515
E2086	N2173	Y2251	T2334	Y2426

• Molecule 1: TcdA1

Chain B: 30%27%43%

MET	LEU	R124	P216	LEU	THR	TLE	ASP	GLY
ASN	TYR	E125	GLY	TYR	ALA	LEU	ARG	LYS
GLU	ALA		LEU	GLU	MET	THR	LEU	ILE
SER	GLU	L129	GLN	ALA	PRO	GLU	ASN	THR
VAL	ARG		ILE	ARG	GLN	ILE	ASP	ASN
LYS	ILE	Y136	LEU	ILE	TYR	TYR	THR	PRO
GLU	LYS	Y137	ASN	LEU	LEU	LEU	ILE	LEU
ILE	LYS	L138	ALA	ASN	LYS	ASP	GLY	LYS
PRO	PRO	D139	SER	GLU	ARG	GLY	GLY	ASN
ASP	ARG	R140	PRO	ARG	TYR	THR	LEU	ASN
VAL	ALA	T141	ALA	TYR	PRO	PRO	GLY	LEU
LEU	VAL	R142	ILE	ASN	GLU	GLN	GLN	ASN
LEU	PRO	P143	ALA	LEU	PHE	ILE	TYR	THR
LYS	GLN	D144	GLY	ALA	SER	GLY	PHE	LEU
SER	LEU		GLY	LEU	GLY	ASP	THR	THR
GLN	ASN	M148	LEU	GLN	GLY	THR	ILE	ILE
CYS	CYS	A149	MET	GLN	GLU	THR	GLY	GLY
THR	THR	L150	HIS	ALA	GLU	ARG	GLY	LYS
ASN	ASN	L151	GLN	VAL	LEU	TYR	ASP	ASP
CYS	LEU	S151	ALA	LEU	ARG	LEU	GLU	LEU
LEU	LEU	Q152	SER	GLN	SER	PRO	GLU	ALA
ALA	ALA	M155	LEU	PHE	ASP	LEU	ILE	ASP
LEU	LEU	D156	LEU	GLY	TYR	GLY	ASP	ILE
ILE	ILE		ILE	TYR	GLY	VAL	HIS	HIS
ALA	ALA	L159	ILE	LYS	THR	PHE	ASN	GLN
SER	PRO	S160	ASN	ALA	LYS	ALA	SER	LEU
HIS	ASN	T161	ALA	SER	ASN	THR	GLY	THR
SER	ALA	L162	ILE	ASN	PHE	ALA	SER	ILE
PHE	PHE	S163	LEU	GLY	GLY	ALA	GLY	GLU
GLU	GLU	L164	PRO	PRO	GLN	ALA	ASP	GLY
PHE	GLU	S165	LEU	GLU	GLN	PHE	TRP	ASP
GLU	GLU	N166	LEU	LEU	TYR	THR	ARG	LEU
ASN	Y92		PHE	TYR	VAL	VAL	LYS	LEU
GLN	N93		ASN	SER	GLU	GLU	THR	LEU
GLN	N94		ILE	ASN	ILE	ALA	PHE	GLY
VAL	Q95		LEU	ASN	ILE	THR	ASN	LYS
SER	F96		THR	LYS	LYS	ASN	ILE	THR
GLU	S97		GLU	GLN	LEU	ASN	GLN	ARG
	A100		GLU	ILE	THR	ASP	THR	ALA
	Y103		GLU	THR	GLU	TYR	ALA	GLY
	V104		THR	PRO	THR	LYS	THR	GLY
	L2406		GLY	VAL	GLU	PHE	ASN	THR
	A105		ASN	VAL	VAL	LEU	ASN	LEU
	P106		ALA	ASN	LYS	LEU	VAL	LEU
	G107		ALA	SER	VAL	LEU	ARG	LEU
	V109		GLU	SER	ASN	LEU	ARG	LEU
	S110		LEU	THR	THR	ASN	ASN	ASN
	S111		TYR	TYR	ALA	ILE	ILE	ASP
	HIS		LYS	VAL	PRO	ALA	ARG	ASP
	ASP	S114	LYS	LYS	GLN	GLN	LEU	LYS
	ALA	P115	ASN	VAL	VAL	VAL	SER	LEU
	GLN	A116	PHE	TYR	ASN	ASN	ILE	ILE
	ALA	A117	GLY	ARG	ILE	ILE	THR	THR
	ALA	Y118	ASN	ILE	GLU	THR	ASP	THR
	GLN	L119	ILE	THR	GLU	GLU	GLN	GLN
	LYS	T120	GLU	ARG	LEU	LEU	ASP	ARG
	ASP	E121	PRO	GLU	SER	SER	ASN	LYS
	R2333	L122	ALA	TYR	ALA	PRO	LYS	LEU
	ARG	Y123	SER	THR	ILE	THR	ASP	ASN

E1745	S1673	Q1594	MET	LYS	THR	ASP	Y1285	I1203	F1131	I1045	D974	THR	GLU	CYS	ILE	THR	R1782	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
V1747	I1674	Y1595	THR	GLN	GLY	LEU	R1287	Y1205	M1132	D1046	R975	ILE	ALA	ALA	ALA	ALA	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
L1750	I1676	M1596	PHE	ILE	SER	ILE	S1290	T1208	G1134	M1049	Q976	GLN	SER	LEU	LEU	LEU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
L1753	Y1677	W1598	ASN	MET	ASN	ILE	Y1291	M1210	F1136	R1050	S978	VAL	SER	GLN	GLN	GLN	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
S1754	S1678	Q1599	ALA	ASP	THR	THR	Q1292	M1210	A1137	Q1053	T981	ASN	LEU	LEU	LEU	LEU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
S1755	G1679	S1600	LEU	ASP	GLY	GLY	Q1293	T1213	M1139	T1054	T983	VAL	GLU	GLU	GLU	GLU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
L1681	Q1680	Y1601	GLU	LYS	THR	THR	F1294	T1214	A1140	M1056	T984	ALA	ALA	ALA	ALA	ALA	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
T1682	T1683	L1602	ILE	LYS	ASN	GLY	D1295	F1215	M1141	M1057	R985	GLN	THR	THR	THR	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
T1683	D1683	T1603	GLY	THR	THR	ILE	R1300	T1296	S1142	D1058	T986	ALA	ALA	ALA	ALA	ALA	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
R1604	L1605	L1606	SER	ALA	GLY	THR	R1301	T1219	E1143	A1059	I986	VAL	ASN	ASN	HIS	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
L1606	N1606	N1606	GLY	THR	ASP	THR	V1302	K1220	M1144	L1060	A991	THR	SER	SER	GLY	GLY	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
A1610	N1687	A1610	ASN	VAL	THR	THR	N1304	T1221	K1146	V1064	S992	VAL	THR	THR	THR	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
V1614	T1688	V1614	ILE	GLY	THR	GLY	R1305	E1223	P1153	Q1068	Q994	GLU	GLU	GLU	GLU	GLU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
A1615	L1690	A1615	ASN	PRO	ARG	ARG	TTR	L1224	Y1154	L1069	Q996	GLN	GLN	GLN	GLN	GLN	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
R1616	F1691	R1616	SER	VAL	THR	THR	ALA	K1225	K1155	L1069	Y996	THR	THR	THR	THR	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
D1622	T1623	D1622	ALA	ILE	THR	ARG	ASP	E1227	S1156	D1072	Y997	ASP	ASP	ASP	ASP	ASP	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
T1623	T1623	T1623	ASN	ASN	THR	GLN	TTR	TTR	P1160	F1078	R998	LEU	LEU	LEU	LEU	LEU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
I1624	I1624	I1624	ILE	THR	PRO	GLN	GLU	G1233	Y1161	S1079	E908	MET	ASN	ASN	ASN	ASN	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
L1625	PRO	L1625	ASP	ALA	SER	CYS	ILE	L1234	Y1162	T1080	E1002	THR	THR	THR	THR	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
S1626	LEU	S1626	VAL	ILE	LYS	ASN	PRO	Y1235	Y1163	L1082	V1004	ASP	LEU	LEU	LEU	LEU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
T1629	ASN	T1629	THR	SER	VAL	THR	MET	A1237	Y1168	T1083	E1005	GLY	ALA	ALA	ALA	ALA	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
Q1633	THR	Q1633	ALA	LYS	TRP	LYS	VAL	Q1240	L1170	V1088	E1006	LEU	LEU	LEU	LEU	LEU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
E1634	K1706	E1634	PHE	VAL	ILE	THR	SER	G1241	M1171	Y1088	S1010	LEU	LEU	LEU	LEU	LEU	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
P1635	V1707	P1635	ALA	GLN	PRO	GLY	ARG	E1242	L1172	L1091	A931	GLY	GLY	GLY	GLY	GLY	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
Q1636	Y1708	Q1636	ASP	ILE	GLY	LYS	THR	D1243	E1173	K1092	R1015	THR	GLN	GLN	GLN	GLN	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
L1637	M1709	L1637	GLY	VAL	ALA	LEU	THR	T1244	Q1174	V1093	F1017	SER	SER	SER	SER	SER	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
G1638	T1710	G1638	GLY	VAL	LYS	GLY	TTR	L1245	Q1174	Y1097	F1018	ILE	ILE	ILE	ILE	ILE	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
K1639	F1711	K1639	ARG	LYS	ARG	ASP	THR	L1246	T1177	Y1097	F1018	THR	THR	THR	THR	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
G1640	K1712	G1640	LYS	ALA	SER	LYS	TRP	V1247	THR	H1098	I1019	VAL	GLN	GLN	GLN	GLN	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
F1641	K1712	F1641	LEU	GLY	THR	PHE	GLY	M1248	LYS	THR	A936	THR	THR	THR	THR	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
Y1642	S1714	Y1642	GLY	GLY	THR	ILE	ASP	F1249	GLN	M1100	F937	ALA	ALA	ALA	ALA	ALA	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
A1643	P1715	A1643	TTR	LYS	ASN	VAL	THR	Y1250	THR	T1101	D939	ASN	ASN	ASN	ASN	ASN	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
T1644	F1644	T1644	GLY	GLN	GLN	THR	LEU	M1251	GLY	H1102	K1023	THR	THR	THR	THR	THR	L1784	L1783	Q1787	D1790	M1795	Y1798	M1800	Y1805	I1806	Y1807	H1808	P1809	Q1810	Y1814	Q1815	H1816	N1817	V1818	R1819	P1820	L1821	L1822	E1823	D1824	T1825	S1826
F1645	H1720	F1645	SER	GLN	ASN	THR	SER	K1260	ASN	H1103	S947	GLN	GLN																													

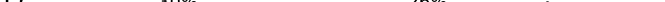
Chain C: 30% 27% . 43%

WORLDWIDE
PDB
PROTEIN DATA BANK

 **EMDataBank**
Unified Data Resource for 3DEM

Q1594	MET	LYS	TYR	ASP	V1285	H1202	K1130	Y1044	I973	LEU	ALA	ALA	ALA	THR	THR	ILE	LEU
Y1595	ASN	GLN	GLN	LEU	Y1286	I1203	F1131	I1045	D974	GLN	SER	SER	SER	LEU	SER	LYS	PHE
M1596	GLN	ILE	SER	ILE	R1287	R1204	N1132	D1046	Q975	TRP	ASN	VAL	VAL	GLN	TRP	ASN	ASN
Q1597	PHE	PHE	GLY	TYR	S1290	Y1205	D1133	—	Q976	ASN	LEU	LEU	LEU	LEU	HIS	LYS	PRO
W1598	ASN	MET	ASN	ILE	Y1291	G1207	K1135	R1049	S978	VAL	ALA	ALA	ALA	SER	THR	GLN	LEU
Q1599	ALA	THR	THR	SER	Q1292	T1208	F1136	—	—	GLN	PHE	VAL	VAL	GLU	LYS	ASN	LEU
W1600	LEU	ASP	SER	PRO	Q1293	W1209	A1137	Q1083	I981	GLN	GLU	GLU	GLU	GLU	TRP	GLY	ASN
Y1601	GLU	SER	GLY	LEU	F1294	W1295	A1138	T1094	K982	LEU	VAL	TYR	TYR	VAL	TRP	SER	GLY
R1602	ILE	LYS	LEU	LEU	Q1295	—	N1139	K1055	T983	LEU	ALA	ALA	ALA	HIS	SER	ASN	GLN
T1603	ASP	GLY	ASN	ARG	T1296	I1213	W1141	M1056	T984	ASN	THR	SER	SER	VAL	PHE	TYR	PHE
R1604	GLY	THR	GLN	ILE	—	T1214	S1142	M1057	R985	VAL	THR	GLY	GLY	HIS	THR	ILE	THR
L1605	SER	ALA	GLY	ILE	F1215	F1214	E1143	D1058	I986	—	THR	LEU	LEU	VAL	LEU	GLY	THR
W1606	GLY	THR	ARG	HIS	R1300	—	E1144	A1059	—	—	—	—	—	ILE	THR	ILE	—
A1610	LEU	ASP	LEU	ASN	R1301	N1218	W1144	L1060	T990	G899	ALA	ALA	ALA	ALA	ASP	LYS	ASP
V1614	ASN	VAL	LEU	GLY	V1302	K1219	H1145	—	L900	L900	GLU	GLU	GLU	LEU	SER	HIS	ILE
A1615	ILE	SER	PHE	THR	N1303	—	K1146	V1064	S992	D901	GLN	ASN	ASN	TRP	MET	LEU	GLY
R1616	ASN	PRO	ARG	GLY	N1304	I1221	—	Q1068	Q994	Y902	ALA	ALA	ALA	THR	SER	ASP	ILE
D1622	ASN	VAL	ASP	GLN	TYR	S1222	P1153	L1069	I995	Q904	ASP	PHE	PHE	THR	THR	ASP	ASP
T1623	ALA	GLU	THR	LYS	ALA	E1223	Y1154	—	—	Q905	ALA	ARG	ARG	THR	THR	ILE	ASP
I1624	SER	ILE	THR	ARG	ASP	L1224	S1155	L1080	N998	N906	LEU	PHE	PHE	TYR	TYR	GLN	ASN
I1625	ASP	THR	PRO	GLN	TYR	K1225	—	D1072	R999	K907	ASN	VAL	VAL	ASN	THR	GLY	SER
S1626	VAL	ILE	LYS	ASN	ILE	E1227	P1160	—	—	E908	LEU	THR	THR	GLY	THR	SER	SER
T1629	THR	SER	VAL	GLY	GLU	G1233	I1161	M1079	A1000	—	LYS	LYS	LYS	LYS	THR	ILE	THR
Q1633	PHE	ALA	GLN	GLY	ARG	L1234	Y1171	S1080	—	A918	ALA	PRO	PRO	GLY	LEU	ASP	THR
E1634	ALA	ILE	ILE	GLY	LYS	E1243	L1172	K1092	I1013	N932	SER	THR	THR	LEU	LEU	ILE	ILE
P1635	GLU	ILE	ALA	LEU	ASP	T1244	E1173	Y1083	S1014	T933	ILE	GLY	GLY	TRP	LEU	ALA	LEU
Q1636	GLY	VAL	LYS	GLY	TYR	L1245	Q1174	—	L934	L934	GLN	ALA	ALA	ASP	ASP	VAL	VAL
G1638	ARG	LYS	ALA	ASP	GLY	L1246	—	Y1097	R1045	R935	ALA	ALA	ALA	THR	THR	GLY	ARG
K1639	LYS	ALA	SER	LYS	TRP	V1247	I1177	H1098	Q1016	A936	GLN	PRO	PRO	LEU	VAL	GLU	ALA
G1640	LEU	GLY	LEU	PHE	GLY	M1248	THR	H1099	F1017	F937	ASN	ALA	ALA	ASN	TYR	GLY	PHE
F1641	GLY	THR	THR	ILE	ASP	F1249	LYS	D1099	F1018	L938	HIS	HIS	HIS	THR	HIS	LYS	ASN
Y1642	TYR	LYS	ASN	VAL	TYR	Y1250	GLN	N1100	I1019	D939	GLN	ASP	ASP	LYS	GLY	THR	ILE
A1643	GLU	GLN	THR	THR	TYR	N1251	THR	I1101	D1020	—	HIS	ALA	ALA	LEU	LEU	ASN	ASP
F1644	SER	ASN	ALA	THR	LEU	—	GLY	N1102	W1021	S947	PRO	THR	THR	GLN	GLN	ASP	ASP
F1645	PHE	THR	ALA	SER	SER	K1260	ASN	N1103	—	T948	SER	GLY	GLY	VAL	VAL	SER	VAL
V1646	SER	PHE	ALA	LEU	MET	N1261	SER	D1104	M1025	—	PRO	THR	THR	PHE	PHE	ALA	SER
I1647	ILE	THR	ILE	GLY	VAL	—	LYS	Q1105	K1026	T951	VAL	ILE	ILE	ASP	ASP	ILE	LEU
P1648	PRO	ALA	GLY	VAL	TYR	M1264	ASP	G1106	R1027	R952	THR	MET	MET	LYS	LYS	SER	PHE
P1649	VAL	ASP	ASP	ASN	ASN	Q1265	GLY	L1107	Y1028	Q953	THR	LEU	LEU	ASP	ASP	ASP	ARG
Y1650	THR	LYS	ASP	PRO	GLY	G1266	TYR	T1108	S1029	V954	GLU	THR	THR	LYS	LYS	LYS	LEU
N1651	LEU	ASP	TYR	ASN	ILE	L1267	GLN	Y1109	T1030	—	ASN	ARG	ARG	ALA	ALA	GLN	LEU
L1652	LYS	VAL	ALA	ASN	THR	Y1268	THR	G1112	W1031	I961	ALA	PHE	PHE	ASP	ASP	LEU	LYS
S1653	VAL	SER	THR	SER	PRO	I1269	GLU	—	A1032	K962	THR	ALA	ALA	LEU	LEU	ILE	ILE
D1657	SER	ILE	ASP	SER	THR	F1270	THR	Y1122	G1032	K963	SER	ASP	ASP	THR	THR	THR	THR
E1658	—	GLN	SER	ASN	ILE	A1271	D1183	W1123	H1033	S965	SER	TRP	TRP	HIS	LEU	LEU	LEU
R1659	PRO	SER	LEU	LYS	ASN	D1272	—	R1124	V1034	R964	CYS	VAL	VAL	VAL	VAL	ILE	HIS
W1660	SER	ASN	TYR	THR	TYR	—	Y1196	S1125	Y1038	D966	THR	ASN	ASN	ILE	MET	ARG	ARG
F1661	PRO	LYS	LYS	MET	LYS	S1275	E1197	R1149	Y1039	I967	SER	THR	THR	ALA	ALA	LYS	ASN
T1585	SER	PRO	PRO	PHE	ALA	—	L1198	V1126	Y1040	T968	ILE	THR	THR	GLN	PRO	LEU	LYS
L1586	PHE	ASP	ASP	TYR	ALA	Q1282	L1199	D1127	P1041	Q969	ASN	GLY	GLY	TYR	TYR	ASN	ASP
Y1664	ASP	THR	THR	PRO	SER	S1283	L1200	H1128	E1042	Y970	THR	GLU	GLU	ILE	THR	THR	GLY
I1665	—	GLU	LEU	VAL	SER	N1284	A1201	S1129	N1043	—	ILE	—	—	ALA	ALA	ILE	LYS



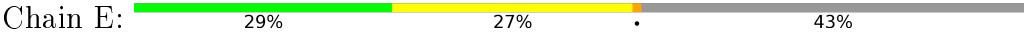
Chain D:  30% 26% . 43%






ALA	LEU	Q1599	Y1677	S1754	V1835	LEU	L1995	A2090	K2178	Q2264	Q2364	G2440
LEU	GLU	S1600	Q1680	S1755	D1835	ARG	L1996	G2091	I2179	F2265	S2365	L2441
ILE	I1601	R1602	L1681	M1758	D1838	GLN	L1996	S2094	E2183	Y2266	S2370	A2442
ASP	T1603	T1603	T1682	M1759	D1839	ASN	G2007	F2096	Y2185	R2272	N2371	N2443
GLY	L1604	R1604	T1683	F1760	V1840	PRO	K2008	D2097	E2186	C2273	N2372	E2446
SER	L1605	L1605	T1684	A1763	Q1841	THR	L2009	S2098	R2187	E2277	N2373	L2446
GLY	M1606	M1606	M1685	A1763	Q1842	PRO	P2010	S2099	R2188	Q2278	L2374	A2449
LEU	A1610	A1610	M1686	E1770	H1843	ALA	E2011	L2102	R2189	Q2279	N2375	A2450
ASN	A1611	A1611	M1687	E1771	D1844	PRO	S2012	Y2103	E2189	Y2280	A2376	S2451
PHE	A1614	A1614	M1688	F1772	P1845	LEU	F2013	D2104	E2192	R2281	F2377	H2452
ILE	A1615	A1615	T1689	F1773	M1846	SER	M2014	E2105	E2193	W2282	T2382	G2453
ASN	A1616	A1616	L1690	Y1774	H1847	LEU	S2015	E2106	I2194	W2283	T2383	M2454
SER	A1616	A1616	F1691	Y1775	Y1848	ANG	L2016	N2107	Q2195	E2284	K2384	G2458
ALA	I1621	I1621	I1692	T1776	K1849	SER	W2017	N2108	Q2196	D2287	T2385	Q2459
ALA	D1622	D1622	D1696	M1777	T1852	ASN	F2019	N2109	N2197	S2288	S2386	F2460
ILE	T1623	T1623	L1778	M1778	T1853	THR	F2020	A2109	E2198	Q2289	L2387	Q2461
THR	L1624	L1624	V1779	Y1779	D1858	LEU	H2021	G2110	A2199	R2290	S2390	F2464
VAL	S1626	S1626	PRU	R1782	A1862	ASP	L2022	E2111	E2200	F2291	V2391	N2465
THR	T1629	T1629	ASN	L1783	G1863	LEU	E2024	A2114	A2201	I2292	S2392	D2466
THR	A1633	A1633	G1706	Q1787	D1865	THR	N2025	L2117	L2203	W2297	K2397	K2468
PHE	E1634	E1634	Y1707	D1790	Y1868	THR	G2026	R2118	K2204	Y2301	I2398	P2471
ALA	P1635	P1635	Y1708	M1795	E1872	ASP	M2029	A2119	Q2205	Y2302	E2400	F2472
GLU	Q1636	Q1636	M1709	M1795	E1872	ASP	G2028	S2120	L2206	L2304	G2401	E2473
GLY	L1637	L1637	T1710	M1795	E1872	ASP	G2028	A2121	I2207	L2305	Y2402	G2474
ARG	L1637	L1637	F1711	Y1798	T1875	GLY	F2036	G2123	S2212	E2308	A2404	I2475
GLY	K1638	K1638	K1712	Y1798	T1875	GLY	T2039	G2124	L2213	E2309	S2405	Q2497
LYS	L1639	L1639	K1713	Y1798	T1875	GLY	L2044	T2125	E2214	T2309	L2406	T2483
LEU	Q1640	Q1640	K1713	Y1798	T1875	GLY	Q2047	A2126	R2216	M2311	G2407	S2490
GLY	F1641	F1641	P1715	Y1806	E1872	GLY	Q2047	R2128	Q2217	L2312	K2408	Q2497
THR	A1643	A1643	P1715	Y1806	E1872	GLY	Q2047	Q2129	E2218	L2313	I2409	S2490
GLU	T1644	T1644	W1721	H1807	Y1883	GLY	A2054	P2142	E2219	L2314	R2410	Q2497
SER	P1645	P1645	G1722	H1808	Y1883	GLY	Q1965	N2143	A2220	E2318	E2411	M2500
PHE	V1646	V1646	P1723	G1809	Q1885	GLY	N2058	I2144	L2222	K2323	L2412	K2502
SER	I1647	I1647	V1726	Q1810	Q1885	GLY	Q2059	L2154	Q2224	R2324	V2417	T2504
ILE	P1648	P1648	R1727	Y1814	K1893	GLY	L2070	G2155	K2224	K2324	T2418	L2509
THR	P1649	P1649	V1727	Q1815	P1894	GLY	Q2071	A2156	S2236	R2327	L2419	L2509
LEU	M1651	M1651	V1733	M1816	P1897	GLY	D2072	E2157	A2239	A2326	L2423	R2512
LYS	L1652	L1652	I1735	M1816	L1898	GLY	K2073	E2158	E2239	E2330	G2424	Y2513
VAL	S1653	S1653	M1736	M1816	L1898	GLY	T2074	E2159	R2243	V2331	P2425	T2514
SER	D1657	D1657	P1737	P1820	S1975	GLY	T2075	E2159	R2243	R2333	Y2426	I2515
THR	M1660	M1660	K1738	L1821	I1976	GLY	E2077	M2165	K2244	T2334	V2429	K2516
ALA	F1661	F1661	S1739	L1822	I1976	GLY	D2079	E2166	F2245	L2337	Q2430	
T1580	K1662	K1662	I1740	E1823	T1825	GLY	K2082	S2168	L2250	L2337	Q2430	
A1583	Y1664	Y1664	L1741	T1825	Y1826	GLY	T2084	E2167	Y2251	N2348	S2434	
L1584	Y1664	Y1664	F1744	Y1826	H1827	GLY	V2085	F2167	N2252	N2348	Y2435	
T1586	K1666	K1666	Y1745	Y1827	ASP	GLY	E2086	N2172	W2253	K2359	G2436	
H1587	Q1594	Q1594	S1746	D1830	SER	GLY	K2087	N2173	L2254	L2360	D2437	
L1588	Y1595	Y1595	Y1747	P1831	ALA	GLY	S2088	A2176	L2258	Q2363	A2438	
T1586	H1674	H1674	L1750	L1832	VAL	GLY	K2089	D2177	F2263		A2439	
L1586	Q1597	Q1597	I1753	D1834	ALA	GLY						

• Molecule 1: TcdA1



MET	ASN	LEU	TYR	E125
GLU	GLU	TYR	GLU	L129
SER	ALA	ALA	ALA	Y136
VAL	VAL	ARG	ILE	Y137
LYS	LYS	LEU	LEU	L138
GLU	GLU	LEU	LYS	D139
ILE	ILE	LYS	ARG	T140
PRO	PRO	ALA	ALA	R141
ASP	ASP	ASN	ASN	R142
VAL	VAL	PRO	PRO	P143
LEU	LEU	GLN	GLN	D144
SER	SER	LEU	LEU	M148
GLN	GLN	GLN	GLN	A149
CYS	CYS	ASN	ASN	L150
THR	THR	ALA	ALA	S151
ASP	ASP	VAL	VAL	Q152
ASN	ASN	HIS	HIS	M155
CYS	CYS	LEU	LEU	D156
LEU	LEU	ALA	ALA	L159
ALA	ALA	PRO	PRO	S160
ILE	ILE	ASN	ASN	T161
THR	THR	ALA	ALA	L162
ASP	ASP	LEU	LEU	S163
ALA	ALA	LEU	LEU	L164
ILE	ILE	GLY	GLY	S165
GLY	GLY	GLY	GLY	M166
PHE	PHE	PHE	PHE	E167
ARG	ARG	ARG	ARG	L168
GLN	GLN	GLN	GLN	L169
VAL	VAL	VAL	VAL	Q170
SER	SER	SER	SER	E171
GLU	GLU	GLU	GLU	S172
HIS	HIS	HIS	HIS	I173
LEU	LEU	LEU	LEU	Y182
THR	THR	THR	THR	T183
TRP	TRP	TRP	TRP	K184
GLY	GLY	GLY	GLY	V185
THR	THR	THR	THR	M186
LYS	LYS	LYS	LYS	E187
ASP	ASP	ASP	ASP	M188
LEU	LEU	LEU	LEU	L189
THR	THR	THR	THR	S110
ASP	ASP	ASP	ASP	S111
HIS	HIS	HIS	HIS	S114
ASP	ASP	ASP	ASP	P115
ALA	ALA	ALA	ALA	A116
GLN	GLN	GLN	GLN	A117
GLY	GLY	GLY	GLY	Y118
ALA	ALA	ALA	ALA	L119
LYS	LYS	LYS	LYS	T120
ASP	ASP	ASP	ASP	E121
ASN	ASN	ASN	ASN	L122
ARG	ARG	ARG	ARG	Y123
				R124







4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	13000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	59000	Depositor
Image detector	Not provided	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 2$	RMSZ	# $ Z > 2$
1	A	0.66	1/11313 (0.0%)	0.65	4/15367 (0.0%)
1	B	0.66	1/11313 (0.0%)	0.65	3/15367 (0.0%)
1	C	0.66	1/11313 (0.0%)	0.65	5/15367 (0.0%)
1	D	0.66	1/11313 (0.0%)	0.65	4/15367 (0.0%)
1	E	0.66	1/11313 (0.0%)	0.65	3/15367 (0.0%)
All	All	0.66	5/56565 (0.0%)	0.65	19/76835 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
All	All	0	5

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	1830	ASP	C-N	-16.99	1.01	1.34
1	D	1830	ASP	C-N	-16.98	1.01	1.34
1	C	1830	ASP	C-N	-16.96	1.02	1.34
1	B	1830	ASP	C-N	-16.95	1.02	1.34
1	A	1830	ASP	C-N	-16.92	1.02	1.34

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2441	LEU	CA-CB-CG	5.75	128.53	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	2441	LEU	CA-CB-CG	5.75	128.51	115.30
1	B	2441	LEU	CA-CB-CG	5.74	128.50	115.30
1	C	2441	LEU	CA-CB-CG	5.74	128.50	115.30
1	E	2441	LEU	CA-CB-CG	5.73	128.48	115.30
1	E	1172	LEU	CA-CB-CG	5.39	127.69	115.30
1	C	1172	LEU	CA-CB-CG	5.38	127.68	115.30
1	B	1172	LEU	CA-CB-CG	5.38	127.67	115.30
1	A	1172	LEU	CA-CB-CG	5.37	127.65	115.30
1	D	1172	LEU	CA-CB-CG	5.36	127.62	115.30
1	A	2504	LEU	CA-CB-CG	5.09	127.01	115.30
1	E	2504	LEU	CA-CB-CG	5.09	127.01	115.30
1	C	2504	LEU	CA-CB-CG	5.09	127.00	115.30
1	B	2504	LEU	CA-CB-CG	5.08	126.98	115.30
1	D	2504	LEU	CA-CB-CG	5.08	126.98	115.30
1	A	2016	LEU	CB-CG-CD2	-5.01	102.48	111.00
1	C	2016	LEU	CB-CG-CD2	-5.01	102.48	111.00
1	D	2016	LEU	CB-CG-CD2	-5.01	102.49	111.00
1	C	1659	ARG	N-CA-C	5.00	124.51	111.00

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1005	GLU	Peptide
1	B	1005	GLU	Peptide
1	C	1005	GLU	Peptide
1	D	1005	GLU	Peptide
1	E	1005	GLU	Peptide

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	A	11083	0	10580	1079	0
1	B	11083	0	10579	1079	0
1	C	11083	0	10579	1084	0
1	D	11083	0	10580	1096	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	11083	0	10579	1092	0
All	All	55415	0	52897	4117	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 38.

All (4117) 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)
1:C:2176:ALA:CB	1:D:2117:LEU:HD22	1.13	1.59
1:D:2176:ALA:CB	1:E:2117:LEU:HD22	1.13	1.59
1:D:2169:ALA:CB	1:E:2124:LEU:HD22	1.29	1.58
1:A:2169:ALA:HB2	1:B:2124:LEU:CD2	1.14	1.58
1:A:2117:LEU:HD22	1:E:2176:ALA:CB	1.16	1.58
1:D:2169:ALA:CB	1:E:2124:LEU:CD2	1.80	1.58
1:A:2169:ALA:CB	1:B:2124:LEU:HD22	1.29	1.56
1:B:2169:ALA:HB2	1:C:2124:LEU:CD2	1.15	1.56
1:A:2124:LEU:CD2	1:E:2169:ALA:HB2	1.17	1.56
1:A:2176:ALA:CB	1:B:2117:LEU:HD22	1.13	1.56
1:B:2169:ALA:CB	1:C:2124:LEU:HD22	1.30	1.56
1:D:2169:ALA:HB2	1:E:2124:LEU:CD2	1.13	1.55
1:C:2169:ALA:HB2	1:D:2124:LEU:CD2	1.14	1.54
1:C:2169:ALA:CB	1:D:2124:LEU:CD2	1.80	1.54
1:B:2176:ALA:CB	1:C:2117:LEU:HD22	1.15	1.53
1:A:2124:LEU:CD2	1:E:2169:ALA:CB	1.84	1.53
1:C:2169:ALA:CB	1:D:2124:LEU:HD22	1.30	1.52
1:A:2169:ALA:HB2	1:B:2124:LEU:CG	1.38	1.50
1:A:2124:LEU:HD22	1:E:2169:ALA:CB	1.33	1.47
1:B:2169:ALA:CB	1:C:2124:LEU:CD2	1.81	1.47
1:B:2169:ALA:HB2	1:C:2124:LEU:CG	1.42	1.47
1:D:2169:ALA:HB2	1:E:2124:LEU:CG	1.41	1.47
1:C:2169:ALA:HB2	1:D:2124:LEU:CG	1.41	1.46
1:A:2169:ALA:CB	1:B:2124:LEU:CD2	1.79	1.46
1:A:2460:PHE:CE2	1:B:2330:GLU:HG2	1.51	1.46
1:A:2330:GLU:HG2	1:E:2460:PHE:CE2	1.51	1.45
1:C:1272:ASP:OD1	1:D:1623:THR:CA	1.64	1.45
1:B:2460:PHE:CE2	1:C:2330:GLU:HG2	1.51	1.45
1:A:1623:THR:CA	1:E:1272:ASP:OD1	1.66	1.44
1:A:2124:LEU:CG	1:E:2169:ALA:HB2	1.44	1.44
1:A:2169:ALA:CA	1:B:2124:LEU:HD13	1.45	1.43
1:D:2169:ALA:CA	1:E:2124:LEU:HD13	1.48	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2169:ALA:CA	1:D:2124:LEU:HD13	1.48	1.42
1:B:2169:ALA:CA	1:C:2124:LEU:HD13	1.49	1.40
1:D:2460:PHE:CE2	1:E:2330:GLU:HG2	1.54	1.39
1:A:2124:LEU:HD13	1:E:2169:ALA:CA	1.51	1.39
1:D:2176:ALA:CB	1:E:2117:LEU:CD2	2.00	1.39
1:B:1272:ASP:OD1	1:C:1623:THR:CA	1.66	1.39
1:C:2460:PHE:CE2	1:D:2330:GLU:HG2	1.55	1.39
1:C:2176:ALA:HB2	1:D:2117:LEU:CD2	1.54	1.38
1:C:2176:ALA:CB	1:D:2117:LEU:CD2	1.99	1.38
1:A:2117:LEU:CD2	1:E:2176:ALA:CB	2.03	1.37
1:B:2176:ALA:CB	1:C:2117:LEU:CD2	2.02	1.36
1:A:2176:ALA:CB	1:B:2117:LEU:CD2	1.99	1.36
1:D:2176:ALA:HB2	1:E:2117:LEU:CD2	1.54	1.36
1:A:160:SER:OG	1:A:982:LYS:HE2	1.26	1.36
1:B:160:SER:OG	1:B:982:LYS:HE2	1.26	1.35
1:D:2106:ASN:O	1:D:2107:ILE:HD13	1.18	1.34
1:C:2106:ASN:O	1:C:2107:ILE:HD13	1.18	1.33
1:A:2176:ALA:HB2	1:B:2117:LEU:CD2	1.54	1.33
1:A:1623:THR:HA	1:E:1272:ASP:CG	1.47	1.33
1:E:160:SER:OG	1:E:982:LYS:HE2	1.26	1.33
1:A:2176:ALA:HB2	1:B:2117:LEU:CG	1.58	1.33
1:C:1272:ASP:CG	1:D:1623:THR:HA	1.47	1.33
1:B:1272:ASP:CG	1:C:1623:THR:HA	1.48	1.32
1:B:2176:ALA:HB2	1:C:2117:LEU:CD2	1.55	1.32
1:A:2106:ASN:O	1:A:2107:ILE:HD13	1.18	1.31
1:B:2106:ASN:O	1:B:2107:ILE:HD13	1.18	1.31
1:A:2117:LEU:CD2	1:E:2176:ALA:HB2	1.56	1.31
1:C:160:SER:OG	1:C:982:LYS:HE2	1.26	1.31
1:A:2117:LEU:CG	1:E:2176:ALA:HB2	1.62	1.29
1:A:2124:LEU:CD1	1:E:2169:ALA:HB2	1.62	1.29
1:C:2176:ALA:HB2	1:D:2117:LEU:CG	1.60	1.29
1:E:2106:ASN:O	1:E:2107:ILE:HD13	1.18	1.29
1:D:160:SER:OG	1:D:982:LYS:HE2	1.26	1.29
1:A:2169:ALA:CA	1:B:2124:LEU:CD1	2.09	1.29
1:A:2169:ALA:HB2	1:B:2124:LEU:CD1	1.61	1.29
1:B:1660:TRP:CZ3	1:B:1680:GLN:HB3	1.68	1.28
1:C:2169:ALA:HB2	1:D:2124:LEU:CD1	1.63	1.28
1:C:1660:TRP:CZ3	1:C:1680:GLN:HB3	1.68	1.28
1:D:2176:ALA:HB2	1:E:2117:LEU:CG	1.60	1.28
1:D:2169:ALA:HB2	1:E:2124:LEU:CD1	1.64	1.28
1:B:2176:ALA:HB2	1:C:2117:LEU:CG	1.62	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2382:ASP:OD2	1:D:2403:PRO:CA	1.83	1.27
1:C:2169:ALA:CA	1:D:2124:LEU:CD1	2.12	1.27
1:D:2169:ALA:CA	1:E:2124:LEU:CD1	2.12	1.26
1:E:1660:TRP:CZ3	1:E:1680:GLN:HB3	1.68	1.26
1:B:2169:ALA:HB2	1:C:2124:LEU:CD1	1.64	1.26
1:D:1660:TRP:CZ3	1:D:1680:GLN:HB3	1.68	1.26
1:D:2382:ASP:OD2	1:E:2403:PRO:CA	1.81	1.26
1:A:1660:TRP:CZ3	1:A:1680:GLN:HB3	1.68	1.26
1:A:2403:PRO:CA	1:E:2382:ASP:OD2	1.82	1.26
1:A:2103:TYR:CD2	1:A:2196:ARG:CZ	2.19	1.25
1:D:2103:TYR:CD2	1:D:2196:ARG:CZ	2.19	1.25
1:A:2382:ASP:OD2	1:B:2403:PRO:CA	1.83	1.25
1:B:2169:ALA:CA	1:C:2124:LEU:CD1	2.14	1.25
1:A:2169:ALA:N	1:B:2124:LEU:HD11	1.49	1.25
1:B:2169:ALA:N	1:C:2124:LEU:HD11	1.52	1.25
1:C:2103:TYR:CD2	1:C:2196:ARG:CZ	2.19	1.24
1:E:2103:TYR:CD2	1:E:2196:ARG:CZ	2.19	1.24
1:B:2103:TYR:CD2	1:B:2196:ARG:CZ	2.19	1.24
1:B:2382:ASP:OD2	1:C:2403:PRO:CA	1.86	1.24
1:A:2124:LEU:CD1	1:E:2169:ALA:CA	2.15	1.23
1:C:2169:ALA:N	1:D:2124:LEU:HD11	1.52	1.22
1:D:2169:ALA:N	1:E:2124:LEU:HD11	1.51	1.22
1:A:2169:ALA:CB	1:B:2124:LEU:CD1	2.17	1.21
1:B:1660:TRP:CE3	1:B:1680:GLN:HB3	1.76	1.21
1:A:2194:ILE:CD1	1:B:2098:SER:OG	1.89	1.21
1:C:1660:TRP:CE3	1:C:1680:GLN:HB3	1.76	1.21
1:B:2172:MET:HE3	1:C:2121:ALA:N	1.54	1.21
1:E:2103:TYR:CE2	1:E:2196:ARG:NH2	2.09	1.20
1:C:2103:TYR:CE2	1:C:2196:ARG:NH2	2.09	1.20
1:B:2103:TYR:CE2	1:B:2196:ARG:NH2	2.09	1.20
1:A:1660:TRP:CE3	1:A:1680:GLN:HB3	1.76	1.20
1:A:2103:TYR:CE2	1:A:2196:ARG:NH2	2.09	1.19
1:D:1660:TRP:CE3	1:D:1680:GLN:HB3	1.76	1.19
1:D:2194:ILE:CD1	1:E:2098:SER:OG	1.90	1.19
1:C:2194:ILE:CD1	1:D:2098:SER:OG	1.91	1.19
1:A:2124:LEU:HD11	1:E:2169:ALA:N	1.55	1.19
1:D:2103:TYR:CE2	1:D:2196:ARG:NH2	2.09	1.19
1:E:1660:TRP:CE3	1:E:1680:GLN:HB3	1.76	1.19
1:C:2172:MET:HE3	1:D:2121:ALA:N	1.59	1.18
1:A:2098:SER:OG	1:E:2194:ILE:CD1	1.91	1.18
1:A:2382:ASP:OD2	1:B:2403:PRO:CB	1.92	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2194:ILE:CD1	1:C:2098:SER:OG	1.91	1.18
1:B:2169:ALA:CB	1:C:2124:LEU:CD1	2.21	1.18
1:B:2106:ASN:O	1:B:2107:ILE:CD1	1.92	1.18
1:A:2106:ASN:O	1:A:2107:ILE:CD1	1.92	1.17
1:A:2172:MET:HE3	1:B:2121:ALA:N	1.55	1.17
1:A:2124:LEU:CD1	1:E:2169:ALA:CB	2.21	1.17
1:A:2403:PRO:CB	1:E:2382:ASP:OD2	1.92	1.17
1:A:2172:MET:O	1:B:2117:LEU:HD11	1.45	1.17
1:C:2106:ASN:O	1:C:2107:ILE:CD1	1.92	1.17
1:D:2036:PHE:HE1	1:E:2308:GLU:HG2	1.04	1.17
1:E:2106:ASN:O	1:E:2107:ILE:CD1	1.92	1.17
1:A:93:ASN:HD21	1:A:1894:PRO:HB3	1.04	1.17
1:D:2106:ASN:O	1:D:2107:ILE:CD1	1.92	1.16
1:D:2172:MET:HE3	1:E:2121:ALA:N	1.59	1.16
1:C:2036:PHE:HE1	1:D:2308:GLU:HG2	1.02	1.16
1:C:2169:ALA:CB	1:D:2124:LEU:CD1	2.20	1.16
1:E:93:ASN:HD21	1:E:1894:PRO:HB3	1.04	1.16
1:C:2172:MET:O	1:D:2117:LEU:HD11	1.46	1.15
1:C:2103:TYR:CD2	1:C:2196:ARG:NH2	2.15	1.15
1:A:2308:GLU:HG2	1:E:2036:PHE:HE1	1.05	1.15
1:A:1623:THR:HA	1:E:1272:ASP:OD1	0.98	1.15
1:D:93:ASN:HD21	1:D:1894:PRO:HB3	1.03	1.15
1:D:2176:ALA:N	1:E:2117:LEU:HD13	1.60	1.15
1:D:2382:ASP:OD2	1:E:2403:PRO:CB	1.92	1.15
1:B:2172:MET:O	1:C:2117:LEU:HD11	1.46	1.15
1:C:2382:ASP:OD2	1:D:2403:PRO:CB	1.94	1.15
1:B:2103:TYR:CD2	1:B:2196:ARG:NH2	2.15	1.15
1:B:2382:ASP:OD2	1:C:2403:PRO:CB	1.95	1.15
1:D:2169:ALA:CB	1:E:2124:LEU:CD1	2.20	1.15
1:A:2117:LEU:HD11	1:E:2172:MET:O	1.44	1.15
1:A:2176:ALA:N	1:B:2117:LEU:HD13	1.58	1.14
1:C:2176:ALA:N	1:D:2117:LEU:HD13	1.61	1.14
1:B:2036:PHE:HE1	1:C:2308:GLU:HG2	1.05	1.14
1:D:2172:MET:O	1:E:2117:LEU:HD11	1.47	1.14
1:B:93:ASN:HD21	1:B:1894:PRO:HB3	1.04	1.14
1:A:2103:TYR:CD2	1:A:2196:ARG:NH2	2.15	1.14
1:A:2036:PHE:HE1	1:B:2308:GLU:HG2	1.05	1.14
1:B:2176:ALA:N	1:C:2117:LEU:HD13	1.62	1.14
1:C:1270:PHE:N	1:D:1808:HIS:CE1	2.10	1.13
1:B:1272:ASP:OD1	1:C:1623:THR:HA	0.99	1.13
1:D:2103:TYR:CD2	1:D:2196:ARG:NH2	2.15	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:ASN:HD21	1:C:1894:PRO:HB3	1.03	1.13
1:B:2460:PHE:CE2	1:C:2330:GLU:CG	2.32	1.13
1:E:2103:TYR:CD2	1:E:2196:ARG:NH2	2.15	1.13
1:A:2117:LEU:HD13	1:E:2176:ALA:N	1.63	1.12
1:B:2169:ALA:HB1	1:C:2124:LEU:HD22	1.29	1.12
1:E:93:ASN:ND2	1:E:1894:PRO:HB3	1.65	1.12
1:C:93:ASN:ND2	1:C:1894:PRO:HB3	1.65	1.11
1:B:93:ASN:ND2	1:B:1894:PRO:HB3	1.65	1.11
1:C:2258:LEU:HB2	1:D:2305:LEU:HD21	1.32	1.11
1:A:93:ASN:ND2	1:A:1894:PRO:HB3	1.65	1.11
1:C:1272:ASP:OD1	1:D:1623:THR:HA	0.95	1.11
1:C:2036:PHE:CE1	1:D:2308:GLU:HG2	1.84	1.11
1:D:93:ASN:ND2	1:D:1894:PRO:HB3	1.65	1.11
1:D:1270:PHE:N	1:E:1808:HIS:CE1	2.11	1.11
1:A:1270:PHE:N	1:B:1808:HIS:CE1	2.12	1.10
1:D:2258:LEU:HB2	1:E:2305:LEU:HD21	1.32	1.10
1:A:2169:ALA:HB1	1:B:2124:LEU:HD22	1.27	1.10
1:A:2169:ALA:CB	1:B:2124:LEU:HD13	1.81	1.10
1:A:2460:PHE:CE2	1:B:2330:GLU:CG	2.33	1.10
1:A:2305:LEU:HD21	1:E:2258:LEU:HB2	1.32	1.10
1:A:2036:PHE:CE1	1:B:2308:GLU:HG2	1.87	1.10
1:B:2258:LEU:HB2	1:C:2305:LEU:HD21	1.34	1.10
1:A:2330:GLU:CG	1:E:2460:PHE:CE2	2.33	1.09
1:D:2036:PHE:CE1	1:E:2308:GLU:HG2	1.86	1.09
1:A:2258:LEU:HB2	1:B:2305:LEU:HD21	1.33	1.09
1:B:2179:ILE:CG2	1:C:2114:ALA:HB2	1.82	1.09
1:D:2460:PHE:CE2	1:E:2330:GLU:CG	2.36	1.09
1:B:1270:PHE:N	1:C:1808:HIS:CE1	2.12	1.09
1:B:2036:PHE:CE1	1:C:2308:GLU:HG2	1.88	1.09
1:C:2179:ILE:CG2	1:D:2114:ALA:HB2	1.83	1.08
1:D:2179:ILE:CG2	1:E:2114:ALA:HB2	1.82	1.08
1:A:2124:LEU:HD13	1:E:2169:ALA:CB	1.83	1.08
1:A:2169:ALA:N	1:B:2124:LEU:CD1	2.14	1.08
1:A:2308:GLU:HG2	1:E:2036:PHE:CE1	1.87	1.08
1:A:2179:ILE:CG2	1:B:2114:ALA:HB2	1.84	1.08
1:B:2172:MET:O	1:C:2117:LEU:HD21	1.54	1.07
1:A:2176:ALA:HB3	1:B:2117:LEU:CD2	1.72	1.07
1:A:1808:HIS:CE1	1:E:1270:PHE:N	2.12	1.07
1:C:2176:ALA:HB3	1:D:2117:LEU:CD2	1.74	1.07
1:C:2460:PHE:CE2	1:D:2330:GLU:CG	2.36	1.07
1:A:2121:ALA:N	1:E:2172:MET:HE3	1.69	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2114:ALA:HB2	1:E:2179:ILE:CG2	1.85	1.07
1:A:2183:GLU:CG	1:B:2111:GLU:HG3	1.84	1.07
1:A:2176:ALA:HB2	1:B:2117:LEU:CB	1.82	1.07
1:D:2176:ALA:HB3	1:E:2117:LEU:CD2	1.75	1.07
1:C:2169:ALA:HB1	1:D:2124:LEU:HD22	1.28	1.07
1:B:1272:ASP:OD2	1:C:1626:SER:HB3	1.55	1.07
1:C:2169:ALA:N	1:D:2124:LEU:CD1	2.17	1.07
1:A:2124:LEU:HD22	1:E:2169:ALA:HB1	1.31	1.07
1:A:1626:SER:HB3	1:E:1272:ASP:OD2	1.53	1.06
1:B:160:SER:OG	1:B:982:LYS:CE	2.03	1.06
1:D:2169:ALA:CB	1:E:2124:LEU:HD13	1.84	1.06
1:D:2172:MET:O	1:E:2117:LEU:HD21	1.54	1.06
1:C:1272:ASP:OD2	1:D:1626:SER:HB3	1.54	1.06
1:D:160:SER:OG	1:D:982:LYS:CE	2.03	1.06
1:E:160:SER:OG	1:E:982:LYS:CE	2.03	1.06
1:A:1622:ASP:O	1:E:1272:ASP:OD1	1.71	1.06
1:A:2327:ARG:HH12	1:E:2468:LYS:HD2	1.19	1.06
1:D:2176:ALA:HB2	1:E:2117:LEU:CB	1.85	1.06
1:D:2183:GLU:CG	1:E:2111:GLU:HG3	1.85	1.06
1:D:2169:ALA:HB1	1:E:2124:LEU:HD22	1.28	1.06
1:A:160:SER:OG	1:A:982:LYS:CE	2.03	1.05
1:B:2183:GLU:CG	1:C:2111:GLU:HG3	1.86	1.05
1:C:2176:ALA:HB2	1:D:2117:LEU:CB	1.85	1.05
1:A:1272:ASP:OD2	1:B:1626:SER:HB3	1.55	1.05
1:C:160:SER:OG	1:C:982:LYS:CE	2.03	1.05
1:A:2124:LEU:HD13	1:E:2169:ALA:HA	1.10	1.05
1:B:2169:ALA:HA	1:C:2124:LEU:HD13	1.08	1.05
1:C:2183:GLU:CG	1:D:2111:GLU:HG3	1.86	1.05
1:B:2460:PHE:CD2	1:C:2330:GLU:HG2	1.91	1.05
1:D:2169:ALA:N	1:E:2124:LEU:CD1	2.16	1.05
1:A:2172:MET:O	1:B:2117:LEU:HD21	1.56	1.05
1:A:2117:LEU:HD21	1:E:2172:MET:O	1.57	1.04
1:B:2176:ALA:HB2	1:C:2117:LEU:CB	1.86	1.04
1:C:1242:GLU:CB	1:D:1806:ILE:HG12	1.86	1.04
1:D:1272:ASP:OD2	1:E:1626:SER:HB3	1.53	1.04
1:A:2111:GLU:HG3	1:E:2183:GLU:CG	1.88	1.04
1:B:2169:ALA:N	1:C:2124:LEU:CD1	2.16	1.04
1:A:2117:LEU:HG	1:E:2172:MET:HG2	1.40	1.04
1:B:1660:TRP:CD1	1:B:1661:PHE:N	2.26	1.04
1:C:1272:ASP:OD1	1:D:1622:ASP:O	1.75	1.04
1:A:2468:LYS:HD2	1:B:2327:ARG:HH12	1.22	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2172:MET:O	1:D:2117:LEU:HD21	1.56	1.04
1:A:2117:LEU:CB	1:E:2176:ALA:HB2	1.87	1.04
1:A:1660:TRP:CD1	1:A:1661:PHE:N	2.26	1.03
1:A:2124:LEU:CD1	1:E:2169:ALA:N	2.19	1.03
1:E:901:ASP:O	1:E:906:MET:O	1.75	1.03
1:C:901:ASP:O	1:C:906:MET:O	1.75	1.03
1:D:1103:ASN:ND2	1:D:1598:TRP:CD1	2.27	1.03
1:D:1242:GLU:CB	1:E:1806:ILE:HG12	1.87	1.03
1:A:901:ASP:O	1:A:906:MET:O	1.75	1.03
1:A:2117:LEU:CD2	1:E:2176:ALA:HB3	1.77	1.03
1:D:2169:ALA:CB	1:E:2124:LEU:HD21	1.89	1.03
1:A:2460:PHE:CD2	1:B:2330:GLU:HG2	1.93	1.03
1:B:1272:ASP:OD1	1:C:1622:ASP:O	1.73	1.03
1:D:1660:TRP:CD1	1:D:1661:PHE:N	2.26	1.03
1:A:1623:THR:N	1:E:1272:ASP:OD1	1.92	1.03
1:C:1660:TRP:CD1	1:C:1661:PHE:N	2.26	1.03
1:E:1103:ASN:ND2	1:E:1598:TRP:CD1	2.27	1.03
1:A:1103:ASN:ND2	1:A:1598:TRP:CD1	2.27	1.02
1:C:2169:ALA:HA	1:D:2124:LEU:HD13	1.07	1.02
1:A:2330:GLU:HG2	1:E:2460:PHE:CD2	1.93	1.02
1:C:1103:ASN:ND2	1:C:1598:TRP:CD1	2.27	1.02
1:B:901:ASP:O	1:B:906:MET:O	1.75	1.02
1:C:2179:ILE:HG22	1:D:2114:ALA:HB2	1.40	1.02
1:C:2176:ALA:HB2	1:D:2117:LEU:HD22	1.13	1.02
1:C:2460:PHE:CD2	1:D:2330:GLU:HG2	1.95	1.02
1:D:2169:ALA:HA	1:E:2124:LEU:HD13	1.06	1.02
1:D:901:ASP:O	1:D:906:MET:O	1.75	1.02
1:E:1660:TRP:CD1	1:E:1661:PHE:N	2.26	1.02
1:A:2318:GLU:HG2	1:E:2272:ARG:HH21	1.21	1.02
1:B:2103:TYR:CD2	1:B:2196:ARG:NH1	2.28	1.02
1:A:2176:ALA:CA	1:B:2117:LEU:HD13	1.90	1.02
1:D:2172:MET:CE	1:E:2121:ALA:N	2.22	1.02
1:A:2169:ALA:CB	1:B:2124:LEU:HD21	1.88	1.02
1:C:2169:ALA:CB	1:D:2124:LEU:HD21	1.88	1.02
1:B:1103:ASN:ND2	1:B:1598:TRP:CD1	2.27	1.01
1:C:2272:ARG:HH21	1:D:2318:GLU:HG2	1.20	1.01
1:C:2169:ALA:CB	1:D:2124:LEU:HD13	1.83	1.01
1:B:2172:MET:HG2	1:C:2117:LEU:HG	1.40	1.01
1:B:2172:MET:CE	1:C:2121:ALA:N	2.23	1.01
1:A:1622:ASP:C	1:E:1272:ASP:OD1	1.96	1.01
1:A:2272:ARG:HH21	1:B:2318:GLU:HG2	1.23	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2172:MET:CE	1:B:2121:ALA:N	2.23	1.01
1:A:1806:ILE:HG12	1:E:1242:GLU:CB	1.89	1.01
1:D:2172:MET:HG2	1:E:2117:LEU:HG	1.42	1.01
1:A:1242:GLU:CB	1:B:1806:ILE:HG12	1.89	1.01
1:B:2468:LYS:HD2	1:C:2327:ARG:HH12	1.18	1.01
1:C:2468:LYS:HD2	1:D:2327:ARG:HH12	1.22	1.01
1:D:2460:PHE:CD2	1:E:2330:GLU:HG2	1.96	1.01
1:A:2103:TYR:CD2	1:A:2196:ARG:NH1	2.28	1.01
1:B:2169:ALA:CB	1:C:2124:LEU:HD13	1.84	1.01
1:C:2172:MET:CE	1:D:2121:ALA:N	2.24	1.01
1:D:2272:ARG:HH21	1:E:2318:GLU:HG2	1.20	1.01
1:C:2103:TYR:CD2	1:C:2196:ARG:NH1	2.28	1.01
1:C:2172:MET:HG2	1:D:2117:LEU:HG	1.42	1.01
1:B:2272:ARG:HH21	1:C:2318:GLU:HG2	1.22	1.01
1:A:2194:ILE:HD12	1:B:2098:SER:OG	1.61	1.01
1:D:2382:ASP:OD2	1:E:2403:PRO:HA	1.58	1.01
1:E:2103:TYR:CD2	1:E:2196:ARG:NH1	2.28	1.01
1:B:1242:GLU:CB	1:C:1806:ILE:HG12	1.89	1.00
1:D:2103:TYR:CD2	1:D:2196:ARG:NH1	2.28	1.00
1:D:2468:LYS:HD2	1:E:2327:ARG:HH12	1.22	1.00
1:C:1272:ASP:OD1	1:D:1622:ASP:C	2.00	1.00
1:B:1272:ASP:OD1	1:C:1623:THR:N	1.93	1.00
1:A:2172:MET:HG2	1:B:2117:LEU:HG	1.42	1.00
1:B:1272:ASP:OD1	1:C:1622:ASP:C	1.97	1.00
1:A:2169:ALA:HA	1:B:2124:LEU:HD13	1.05	1.00
1:B:2179:ILE:HG22	1:C:2114:ALA:HB2	1.40	1.00
1:D:998:ASN:HB3	1:E:1881:MET:SD	2.01	1.00
1:A:2179:ILE:HG22	1:B:2114:ALA:HB2	1.40	1.00
1:C:1272:ASP:OD1	1:D:1623:THR:N	1.94	1.00
1:A:1272:ASP:OD1	1:B:1622:ASP:O	1.74	1.00
1:D:2179:ILE:HG22	1:E:2114:ALA:HB2	1.39	1.00
1:B:2169:ALA:CB	1:C:2124:LEU:HD21	1.90	0.99
1:C:2169:ALA:H	1:D:2124:LEU:HD11	1.23	0.99
1:A:2169:ALA:H	1:B:2124:LEU:HD11	1.20	0.99
1:C:998:ASN:HB3	1:D:1881:MET:SD	2.03	0.99
1:C:2176:ALA:CA	1:D:2117:LEU:HD13	1.92	0.99
1:D:2176:ALA:CA	1:E:2117:LEU:HD13	1.93	0.99
1:A:2124:LEU:HD11	1:E:2169:ALA:H	1.25	0.99
1:B:2176:ALA:HB2	1:C:2117:LEU:HD22	1.13	0.98
1:E:2103:TYR:CG	1:E:2196:ARG:NH1	2.31	0.98
1:A:1881:MET:SD	1:E:998:ASN:HB3	2.02	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2222:LEU:HD12	1:B:2073:LYS:HD2	1.45	0.98
1:B:2103:TYR:CG	1:B:2196:ARG:NH1	2.31	0.98
1:D:2103:TYR:CG	1:D:2196:ARG:NH1	2.31	0.98
1:A:2117:LEU:HD13	1:E:2176:ALA:CA	1.93	0.98
1:A:2382:ASP:OD2	1:B:2403:PRO:HA	1.61	0.98
1:C:2382:ASP:OD2	1:D:2403:PRO:HA	1.59	0.98
1:C:2103:TYR:CG	1:C:2196:ARG:NH1	2.31	0.98
1:B:1660:TRP:HD1	1:B:1661:PHE:N	1.61	0.98
1:B:2169:ALA:H	1:C:2124:LEU:HD11	1.23	0.98
1:D:2194:ILE:HG21	1:E:2099:TYR:OH	1.64	0.98
1:A:2403:PRO:HA	1:E:2382:ASP:OD2	1.59	0.98
1:A:2169:ALA:HB3	1:B:2124:LEU:CD2	1.93	0.98
1:D:93:ASN:HD21	1:D:1894:PRO:CB	1.77	0.98
1:A:2124:LEU:HD21	1:E:2169:ALA:CB	1.91	0.98
1:C:93:ASN:HD21	1:C:1894:PRO:CB	1.77	0.98
1:C:1205:TYR:HD1	1:D:1072:ASP:OD2	1.47	0.98
1:D:1029:SER:OG	1:E:1872:GLU:OE2	1.82	0.98
1:D:2222:LEU:HD12	1:E:2073:LYS:HD2	1.46	0.98
1:A:2176:ALA:N	1:B:2117:LEU:CD1	2.26	0.97
1:C:2194:ILE:HD12	1:D:2098:SER:OG	1.63	0.97
1:C:2222:LEU:HD12	1:D:2073:LYS:HD2	1.46	0.97
1:A:2121:ALA:N	1:E:2172:MET:CE	2.26	0.97
1:B:2176:ALA:HB3	1:C:2117:LEU:CD2	1.77	0.97
1:D:2169:ALA:HB2	1:E:2124:LEU:HD21	1.46	0.97
1:B:93:ASN:HD21	1:B:1894:PRO:CB	1.77	0.97
1:A:998:ASN:HB3	1:B:1881:MET:SD	2.03	0.97
1:D:1660:TRP:CD1	1:D:1661:PHE:O	2.17	0.97
1:E:93:ASN:HD21	1:E:1894:PRO:CB	1.77	0.97
1:A:2103:TYR:CG	1:A:2196:ARG:NH1	2.31	0.97
1:A:2183:GLU:HG3	1:B:2111:GLU:CG	1.95	0.97
1:A:2114:ALA:HB2	1:E:2179:ILE:HG22	1.43	0.97
1:A:93:ASN:HD21	1:A:1894:PRO:CB	1.77	0.96
1:B:118:TYR:O	1:B:122:LEU:HB2	1.65	0.96
1:B:2194:ILE:HD12	1:C:2098:SER:OG	1.65	0.96
1:C:1660:TRP:CD1	1:C:1661:PHE:O	2.17	0.96
1:B:2176:ALA:CA	1:C:2117:LEU:HD13	1.94	0.96
1:E:1660:TRP:CD1	1:E:1661:PHE:O	2.17	0.96
1:A:118:TYR:O	1:A:122:LEU:HB2	1.65	0.96
1:B:2382:ASP:OD2	1:C:2403:PRO:HA	1.61	0.96
1:D:2183:GLU:HG3	1:E:2111:GLU:CG	1.95	0.96
1:D:118:TYR:O	1:D:122:LEU:HB2	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1660:TRP:CD1	1:B:1661:PHE:O	2.17	0.96
1:A:2176:ALA:HB2	1:B:2117:LEU:HB3	1.46	0.96
1:B:998:ASN:HB3	1:C:1881:MET:SD	2.05	0.96
1:A:1872:GLU:OE2	1:E:1029:SER:OG	1.83	0.96
1:A:1660:TRP:CD1	1:A:1661:PHE:O	2.17	0.96
1:D:1660:TRP:HD1	1:D:1661:PHE:N	1.61	0.96
1:A:2098:SER:OG	1:E:2194:ILE:HD12	1.64	0.96
1:B:2194:ILE:HG21	1:C:2099:TYR:OH	1.64	0.95
1:D:2194:ILE:HD12	1:E:2098:SER:OG	1.63	0.95
1:C:2426:TYR:HB3	1:D:2334:THR:HG21	1.48	0.95
1:A:1205:TYR:HD1	1:B:1072:ASP:OD2	1.49	0.95
1:E:118:TYR:O	1:E:122:LEU:HB2	1.65	0.95
1:A:1660:TRP:HD1	1:A:1661:PHE:N	1.61	0.95
1:B:2169:ALA:HB3	1:C:2124:LEU:CD2	1.97	0.95
1:A:2194:ILE:HG21	1:B:2099:TYR:OH	1.65	0.95
1:C:2036:PHE:HE1	1:D:2308:GLU:CG	1.79	0.95
1:D:160:SER:HG	1:D:982:LYS:HE2	1.31	0.95
1:B:160:SER:HG	1:B:982:LYS:HE2	1.12	0.95
1:C:1660:TRP:HD1	1:C:1661:PHE:N	1.61	0.95
1:B:2183:GLU:HG3	1:C:2111:GLU:CG	1.96	0.95
1:C:2194:ILE:HG21	1:D:2099:TYR:OH	1.66	0.95
1:C:2183:GLU:HG3	1:D:2111:GLU:CG	1.97	0.95
1:A:2111:GLU:HG3	1:E:2183:GLU:HG3	1.48	0.95
1:C:1029:SER:OG	1:D:1872:GLU:OE2	1.83	0.94
1:D:2169:ALA:HB3	1:E:2124:LEU:CD2	1.95	0.94
1:C:118:TYR:O	1:C:122:LEU:HB2	1.66	0.94
1:B:2222:LEU:HD12	1:C:2073:LYS:HD2	1.49	0.94
1:D:2176:ALA:HB2	1:E:2117:LEU:HB3	1.48	0.94
1:D:1205:TYR:HD1	1:E:1072:ASP:OD2	1.49	0.94
1:A:2073:LYS:HD2	1:E:2222:LEU:HD12	1.49	0.94
1:B:1029:SER:OG	1:C:1872:GLU:OE2	1.85	0.94
1:C:2169:ALA:HB3	1:D:2124:LEU:CD2	1.96	0.94
1:B:1205:TYR:HD1	1:C:1072:ASP:OD2	1.51	0.94
1:D:1272:ASP:OD1	1:E:1622:ASP:O	1.73	0.94
1:C:2176:ALA:N	1:D:2117:LEU:CD1	2.29	0.94
1:D:2176:ALA:N	1:E:2117:LEU:CD1	2.29	0.94
1:A:2111:GLU:CG	1:E:2183:GLU:HG3	1.98	0.94
1:C:2036:PHE:CE1	1:D:2308:GLU:CG	2.50	0.94
1:A:1072:ASP:OD2	1:E:1205:TYR:HD1	1.51	0.94
1:B:2183:GLU:HG3	1:C:2111:GLU:HG3	1.47	0.94
1:E:160:SER:HG	1:E:982:LYS:HE2	1.18	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1235:TYR:HB3	1:A:1248:MET:HB3	1.49	0.94
1:D:2036:PHE:HE1	1:E:2308:GLU:CG	1.81	0.94
1:E:1660:TRP:HD1	1:E:1661:PHE:N	1.61	0.94
1:A:2099:TYR:OH	1:E:2194:ILE:HG21	1.66	0.94
1:D:2169:ALA:H	1:E:2124:LEU:HD11	1.22	0.93
1:C:2013:PHE:CZ	1:D:2323:LYS:HG2	2.02	0.93
1:C:160:SER:HG	1:C:982:LYS:HE2	1.15	0.93
1:C:2183:GLU:HG3	1:D:2111:GLU:HG3	1.48	0.93
1:B:2176:ALA:N	1:C:2117:LEU:CD1	2.31	0.93
1:A:1029:SER:OG	1:B:1872:GLU:OE2	1.85	0.93
1:A:2117:LEU:HB3	1:E:2176:ALA:HB2	1.51	0.93
1:C:1235:TYR:HB3	1:C:1248:MET:HB3	1.49	0.93
1:E:1235:TYR:HB3	1:E:1248:MET:HB3	1.49	0.93
1:B:2426:TYR:HB3	1:C:2334:THR:HG21	1.50	0.93
1:C:2176:ALA:HB2	1:D:2117:LEU:HB3	1.49	0.92
1:A:2036:PHE:HE1	1:B:2308:GLU:CG	1.81	0.92
1:A:160:SER:HG	1:A:982:LYS:HE2	1.13	0.92
1:D:2426:TYR:HB3	1:E:2334:THR:HG21	1.49	0.92
1:A:2013:PHE:CZ	1:B:2323:LYS:HG2	2.05	0.92
1:A:2183:GLU:HG3	1:B:2111:GLU:HG3	1.46	0.92
1:B:2013:PHE:CZ	1:C:2323:LYS:HG2	2.05	0.92
1:A:2117:LEU:CD1	1:E:2172:MET:O	2.18	0.92
1:D:2013:PHE:CZ	1:E:2323:LYS:HG2	2.03	0.92
1:A:2183:GLU:OE2	1:B:2111:GLU:OE2	1.87	0.91
1:A:2036:PHE:CE1	1:B:2308:GLU:CG	2.52	0.91
1:C:1660:TRP:CE3	1:C:1680:GLN:CB	2.53	0.91
1:D:2036:PHE:CE1	1:E:2308:GLU:CG	2.52	0.91
1:A:2117:LEU:CD1	1:E:2176:ALA:N	2.32	0.91
1:A:1660:TRP:CE3	1:A:1680:GLN:CB	2.53	0.91
1:B:2036:PHE:HE1	1:C:2308:GLU:CG	1.81	0.91
1:A:2172:MET:O	1:B:2117:LEU:CD1	2.17	0.91
1:A:2323:LYS:HG2	1:E:2013:PHE:CZ	2.05	0.91
1:A:2194:ILE:HD11	1:B:2098:SER:OG	1.71	0.91
1:E:1660:TRP:CE3	1:E:1680:GLN:CB	2.53	0.91
1:A:2426:TYR:HB3	1:B:2334:THR:HG21	1.49	0.91
1:D:1235:TYR:HB3	1:D:1248:MET:HB3	1.49	0.91
1:B:1235:TYR:HB3	1:B:1248:MET:HB3	1.49	0.91
1:C:1660:TRP:O	1:C:1712:LYS:CG	2.19	0.91
1:B:1270:PHE:N	1:C:1808:HIS:HE1	1.67	0.91
1:C:2013:PHE:HZ	1:D:2323:LYS:HG2	1.35	0.91
1:D:1660:TRP:O	1:D:1712:LYS:CG	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2308:GLU:CG	1:E:2036:PHE:HE1	1.82	0.91
1:B:1660:TRP:O	1:B:1712:LYS:CG	2.19	0.91
1:B:2183:GLU:OE2	1:C:2111:GLU:OE2	1.89	0.90
1:D:2183:GLU:OE2	1:E:2111:GLU:OE2	1.88	0.90
1:D:2172:MET:O	1:E:2117:LEU:CD1	2.19	0.90
1:B:2176:ALA:HB2	1:C:2117:LEU:HB3	1.49	0.90
1:B:2172:MET:O	1:C:2117:LEU:CD1	2.18	0.90
1:E:1660:TRP:O	1:E:1712:LYS:CG	2.19	0.90
1:B:1660:TRP:CE3	1:B:1680:GLN:CB	2.53	0.90
1:B:2036:PHE:CE1	1:C:2308:GLU:CG	2.53	0.90
1:D:1660:TRP:CE3	1:D:1680:GLN:CB	2.53	0.90
1:A:1270:PHE:N	1:B:1808:HIS:HE1	1.68	0.90
1:D:2013:PHE:HZ	1:E:2323:LYS:HG2	1.35	0.90
1:A:2098:SER:OG	1:E:2194:ILE:HD11	1.72	0.90
1:B:2013:PHE:HZ	1:C:2323:LYS:HG2	1.37	0.90
1:C:1029:SER:CB	1:D:1872:GLU:OE2	2.20	0.89
1:C:2172:MET:O	1:D:2117:LEU:CD1	2.19	0.89
1:B:2468:LYS:HD2	1:C:2327:ARG:NH1	1.86	0.89
1:A:2308:GLU:CG	1:E:2036:PHE:CE1	2.53	0.89
1:A:2327:ARG:NH1	1:E:2468:LYS:HD2	1.87	0.89
1:A:1808:HIS:HE1	1:E:1270:PHE:N	1.69	0.89
1:D:1029:SER:CB	1:E:1872:GLU:OE2	2.20	0.89
1:A:2334:THR:HG21	1:E:2426:TYR:HB3	1.51	0.89
1:C:1270:PHE:N	1:D:1808:HIS:HE1	1.66	0.89
1:A:1660:TRP:O	1:A:1712:LYS:CG	2.19	0.89
1:A:2124:LEU:CD2	1:E:2169:ALA:HB3	1.99	0.89
1:D:2194:ILE:HD11	1:E:2098:SER:OG	1.72	0.89
1:D:2183:GLU:HG3	1:E:2111:GLU:HG3	1.47	0.89
1:A:2323:LYS:HG2	1:E:2013:PHE:HZ	1.37	0.89
1:A:2169:ALA:HB2	1:B:2124:LEU:HD21	1.46	0.89
1:C:2103:TYR:HD2	1:C:2196:ARG:CZ	1.83	0.89
1:A:2124:LEU:HD21	1:E:2169:ALA:HB2	1.47	0.89
1:C:1244:THR:HG22	1:D:1808:HIS:HA	1.55	0.88
1:C:2183:GLU:OE2	1:D:2111:GLU:OE2	1.90	0.88
1:C:2194:ILE:HD11	1:D:2098:SER:OG	1.73	0.88
1:D:1270:PHE:N	1:E:1808:HIS:HE1	1.68	0.88
1:B:2103:TYR:HD2	1:B:2196:ARG:CZ	1.83	0.88
1:D:2103:TYR:HD2	1:D:2196:ARG:CZ	1.83	0.88
1:E:2103:TYR:HD2	1:E:2196:ARG:CZ	1.83	0.88
1:C:2382:ASP:OD2	1:D:2404:ALA:N	2.07	0.87
1:A:2111:GLU:OE2	1:E:2183:GLU:OE2	1.91	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2468:LYS:HD2	1:E:2327:ARG:NH1	1.90	0.87
1:B:2194:ILE:HD11	1:C:2098:SER:OG	1.72	0.87
1:A:2468:LYS:HD2	1:B:2327:ARG:NH1	1.89	0.87
1:A:2013:PHE:HZ	1:B:2323:LYS:HG2	1.38	0.87
1:D:2172:MET:CE	1:E:2121:ALA:CA	2.52	0.87
1:A:1029:SER:CB	1:B:1872:GLU:OE2	2.23	0.86
1:D:2382:ASP:OD2	1:E:2404:ALA:N	2.08	0.86
1:A:1872:GLU:OE2	1:E:1029:SER:CB	2.23	0.86
1:D:2183:GLU:CG	1:E:2111:GLU:CG	2.53	0.86
1:C:95:GLN:O	1:C:97:SER:N	2.09	0.86
1:D:2172:MET:O	1:E:2117:LEU:CD2	2.24	0.86
1:A:2176:ALA:H	1:B:2117:LEU:CD1	1.86	0.86
1:C:2468:LYS:HD2	1:D:2327:ARG:NH1	1.90	0.86
1:C:2172:MET:CE	1:D:2121:ALA:CA	2.53	0.86
1:B:95:GLN:O	1:B:97:SER:N	2.09	0.86
1:C:1270:PHE:H	1:D:1808:HIS:CE1	1.94	0.86
1:A:2103:TYR:HD2	1:A:2196:ARG:CZ	1.83	0.86
1:A:2318:GLU:HG2	1:E:2272:ARG:NH2	1.91	0.86
1:A:2183:GLU:CG	1:B:2111:GLU:CG	2.52	0.86
1:B:2172:MET:CE	1:C:2121:ALA:CA	2.53	0.86
1:A:2179:ILE:CG2	1:B:2110:GLY:O	2.24	0.86
1:B:2179:ILE:CG2	1:C:2110:GLY:O	2.24	0.86
1:A:2172:MET:HE3	1:B:2121:ALA:H	1.40	0.85
1:D:95:GLN:O	1:D:97:SER:N	2.09	0.85
1:D:2272:ARG:NH2	1:E:2318:GLU:HG2	1.90	0.85
1:D:2179:ILE:CG2	1:E:2110:GLY:O	2.24	0.85
1:A:2382:ASP:OD2	1:B:2404:ALA:N	2.10	0.85
1:B:2172:MET:O	1:C:2117:LEU:CD2	2.23	0.85
1:E:2333:ARG:NE	1:E:2401:ASP:OD2	2.10	0.85
1:A:2333:ARG:NE	1:A:2401:ASP:OD2	2.10	0.85
1:B:1029:SER:CB	1:C:1872:GLU:OE2	2.25	0.85
1:D:1244:THR:HG22	1:E:1808:HIS:HA	1.55	0.85
1:A:2172:MET:CE	1:B:2121:ALA:CA	2.54	0.84
1:A:2172:MET:O	1:B:2117:LEU:CD2	2.24	0.84
1:A:95:GLN:O	1:A:97:SER:N	2.09	0.84
1:B:2333:ARG:NE	1:B:2401:ASP:OD2	2.10	0.84
1:C:2176:ALA:H	1:D:2117:LEU:CD1	1.89	0.84
1:A:1244:THR:HG22	1:B:1808:HIS:HA	1.57	0.84
1:C:2272:ARG:NH2	1:D:2318:GLU:HG2	1.91	0.84
1:B:2468:LYS:CD	1:C:2327:ARG:NH1	2.40	0.84
1:C:2183:GLU:CG	1:D:2111:GLU:CG	2.55	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:95:GLN:O	1:E:97:SER:N	2.09	0.84
1:B:2169:ALA:HB2	1:C:2124:LEU:HD21	1.47	0.84
1:C:2179:ILE:CG2	1:D:2110:GLY:O	2.25	0.84
1:C:2172:MET:O	1:D:2117:LEU:CD2	2.25	0.84
1:D:1270:PHE:H	1:E:1808:HIS:CE1	1.96	0.84
1:A:2110:GLY:O	1:E:2179:ILE:CG2	2.25	0.84
1:A:2117:LEU:HD22	1:E:2176:ALA:HB3	0.85	0.84
1:B:1270:PHE:H	1:C:1808:HIS:CE1	1.95	0.84
1:C:1205:TYR:CD1	1:D:1072:ASP:OD2	2.30	0.84
1:B:2176:ALA:HB3	1:C:2117:LEU:HD22	0.84	0.84
1:A:2103:TYR:CB	1:A:2196:ARG:NH1	2.41	0.84
1:A:2327:ARG:NH1	1:E:2468:LYS:CD	2.41	0.84
1:C:2103:TYR:CB	1:C:2196:ARG:NH1	2.41	0.84
1:D:2382:ASP:OD2	1:E:2403:PRO:HB2	1.78	0.84
1:A:2382:ASP:OD2	1:B:2403:PRO:HB2	1.76	0.83
1:B:2382:ASP:OD2	1:C:2404:ALA:N	2.11	0.83
1:A:1808:HIS:CE1	1:E:1270:PHE:H	1.95	0.83
1:A:2272:ARG:NH2	1:B:2318:GLU:HG2	1.92	0.83
1:A:2121:ALA:CA	1:E:2172:MET:CE	2.56	0.83
1:D:2172:MET:HE3	1:E:2121:ALA:H	1.40	0.83
1:B:2272:ARG:NH2	1:C:2318:GLU:HG2	1.92	0.83
1:D:2176:ALA:H	1:E:2117:LEU:CD1	1.89	0.83
1:D:2333:ARG:NE	1:D:2401:ASP:OD2	2.10	0.83
1:A:2404:ALA:N	1:E:2382:ASP:OD2	2.12	0.83
1:B:1244:THR:HG22	1:C:1808:HIS:HA	1.60	0.83
1:B:2176:ALA:H	1:C:2117:LEU:CD1	1.90	0.83
1:D:2208:ALA:CB	1:E:2084:VAL:HG22	2.09	0.83
1:A:2111:GLU:CG	1:E:2183:GLU:CG	2.57	0.83
1:A:1808:HIS:HA	1:E:1244:THR:HG22	1.59	0.83
1:B:2103:TYR:CB	1:B:2196:ARG:NH1	2.41	0.83
1:D:1092:LYS:HA	1:D:1594:GLN:HE22	1.44	0.82
1:A:2117:LEU:CD2	1:E:2172:MET:O	2.26	0.82
1:B:1092:LYS:HA	1:B:1594:GLN:HE22	1.44	0.82
1:C:1092:LYS:HA	1:C:1594:GLN:HE22	1.44	0.82
1:D:1205:TYR:CD1	1:E:1072:ASP:OD2	2.32	0.82
1:C:2172:MET:HE3	1:D:2121:ALA:H	1.41	0.82
1:C:2272:ARG:HH21	1:D:2318:GLU:CG	1.91	0.82
1:E:2103:TYR:CB	1:E:2196:ARG:NH1	2.41	0.82
1:B:2183:GLU:CG	1:C:2111:GLU:CG	2.55	0.82
1:C:2333:ARG:NE	1:C:2401:ASP:OD2	2.10	0.82
1:A:1092:LYS:HA	1:A:1594:GLN:HE22	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2103:TYR:CB	1:D:2196:ARG:NH1	2.41	0.82
1:B:2172:MET:HE3	1:C:2121:ALA:H	1.38	0.82
1:B:2208:ALA:CB	1:C:2084:VAL:HG22	2.08	0.82
1:A:1584:LEU:HB3	1:A:1598:TRP:HB3	1.62	0.82
1:A:2124:LEU:HG	1:E:2165:MET:SD	2.19	0.82
1:B:1636:GLN:NE2	1:B:1639:LYS:O	2.13	0.82
1:C:2176:ALA:HB3	1:D:2117:LEU:HD22	0.82	0.82
1:A:2208:ALA:CB	1:B:2084:VAL:HG22	2.09	0.82
1:C:1584:LEU:HB3	1:C:1598:TRP:HB3	1.62	0.82
1:C:2176:ALA:HB2	1:D:2117:LEU:CD1	2.10	0.82
1:D:2176:ALA:HB3	1:E:2117:LEU:HD22	0.82	0.82
1:D:2165:MET:SD	1:E:2124:LEU:HG	2.20	0.82
1:A:2084:VAL:HG22	1:E:2208:ALA:CB	2.09	0.82
1:A:1205:TYR:CD1	1:B:1072:ASP:OD2	2.33	0.81
1:A:1636:GLN:NE2	1:A:1639:LYS:O	2.13	0.81
1:A:2169:ALA:HA	1:B:2124:LEU:CD1	1.93	0.81
1:D:2272:ARG:HH21	1:E:2318:GLU:CG	1.91	0.81
1:E:1660:TRP:HD1	1:E:1661:PHE:O	1.62	0.81
1:D:2468:LYS:CD	1:E:2327:ARG:NH1	2.43	0.81
1:C:1636:GLN:NE2	1:C:1639:LYS:O	2.13	0.81
1:C:1660:TRP:O	1:C:1712:LYS:HG3	1.81	0.81
1:B:2165:MET:SD	1:C:2124:LEU:HG	2.19	0.81
1:E:1636:GLN:NE2	1:E:1639:LYS:O	2.13	0.81
1:C:2208:ALA:CB	1:D:2084:VAL:HG22	2.10	0.81
1:D:1636:GLN:NE2	1:D:1639:LYS:O	2.13	0.81
1:D:1660:TRP:O	1:D:1712:LYS:HG3	1.81	0.81
1:D:2169:ALA:HA	1:E:2124:LEU:CD1	1.95	0.81
1:A:2272:ARG:HH21	1:B:2318:GLU:CG	1.94	0.81
1:A:976:GLN:HB2	1:B:1971:ARG:NH2	1.95	0.81
1:A:2468:LYS:CD	1:B:2327:ARG:NH1	2.43	0.81
1:B:1205:TYR:CD1	1:C:1072:ASP:OD2	2.33	0.81
1:B:2382:ASP:OD2	1:C:2403:PRO:HB2	1.80	0.81
1:A:2117:LEU:CD1	1:E:2176:ALA:HB2	2.09	0.81
1:A:1660:TRP:HD1	1:A:1661:PHE:O	1.62	0.81
1:A:1072:ASP:OD2	1:E:1205:TYR:CD1	2.34	0.81
1:C:2468:LYS:CD	1:D:2327:ARG:NH1	2.44	0.80
1:A:2121:ALA:H	1:E:2172:MET:HE3	1.46	0.80
1:B:1584:LEU:HB3	1:B:1598:TRP:HB3	1.62	0.80
1:D:1584:LEU:HB3	1:D:1598:TRP:HB3	1.62	0.80
1:A:2176:ALA:HB2	1:B:2117:LEU:CD1	2.10	0.80
1:A:2124:LEU:CD1	1:E:2169:ALA:HA	1.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2117:LEU:CD1	1:E:2176:ALA:H	1.91	0.80
1:C:1029:SER:HB3	1:D:1872:GLU:OE2	1.81	0.80
1:C:976:GLN:HB2	1:D:1971:ARG:NH2	1.97	0.80
1:D:2176:ALA:HB2	1:E:2117:LEU:CD1	2.11	0.80
1:C:2165:MET:SD	1:D:2124:LEU:HG	2.21	0.80
1:D:1660:TRP:HD1	1:D:1661:PHE:O	1.62	0.80
1:B:2027:ARG:NH2	1:B:2318:GLU:OE1	2.15	0.80
1:C:2027:ARG:NH2	1:C:2318:GLU:OE1	2.15	0.80
1:C:2169:ALA:HB2	1:D:2124:LEU:HD21	1.45	0.79
1:E:1092:LYS:HA	1:E:1594:GLN:HE22	1.44	0.79
1:A:2027:ARG:NH2	1:A:2318:GLU:OE1	2.15	0.79
1:B:2430:GLN:OE1	1:B:2497:GLN:NE2	2.16	0.79
1:A:2179:ILE:HG21	1:B:2114:ALA:N	1.98	0.79
1:C:1660:TRP:HD1	1:C:1661:PHE:O	1.62	0.79
1:D:1029:SER:HB3	1:E:1872:GLU:OE2	1.81	0.79
1:D:2430:GLN:OE1	1:D:2497:GLN:NE2	2.16	0.79
1:A:1082:LEU:HB3	1:A:1614:VAL:HG22	1.64	0.79
1:A:2176:ALA:HB3	1:B:2117:LEU:HD22	0.79	0.79
1:D:976:GLN:HB2	1:E:1971:ARG:NH2	1.97	0.79
1:A:2318:GLU:CG	1:E:2272:ARG:HH21	1.93	0.79
1:B:2176:ALA:HB2	1:C:2117:LEU:CD1	2.12	0.79
1:A:1660:TRP:O	1:A:1712:LYS:HG3	1.81	0.79
1:B:1082:LEU:HB3	1:B:1614:VAL:HG22	1.64	0.79
1:B:1660:TRP:HD1	1:B:1661:PHE:O	1.62	0.79
1:B:2172:MET:CG	1:C:2117:LEU:HG	2.13	0.79
1:A:2403:PRO:HB2	1:E:2382:ASP:OD2	1.78	0.79
1:A:2173:ASN:HA	1:B:2117:LEU:HD21	1.64	0.79
1:A:2176:ALA:CB	1:B:2117:LEU:HB3	2.12	0.79
1:E:2027:ARG:NH2	1:E:2318:GLU:OE1	2.15	0.79
1:B:976:GLN:HB2	1:C:1971:ARG:NH2	1.96	0.79
1:C:2258:LEU:HB2	1:D:2305:LEU:CD2	2.13	0.79
1:E:1584:LEU:HB3	1:E:1598:TRP:HB3	1.62	0.79
1:B:2272:ARG:HH21	1:C:2318:GLU:CG	1.94	0.79
1:C:2382:ASP:OD2	1:D:2403:PRO:HB2	1.79	0.79
1:B:1660:TRP:O	1:B:1712:LYS:HG3	1.81	0.79
1:D:2027:ARG:NH2	1:D:2318:GLU:OE1	2.15	0.79
1:E:1660:TRP:O	1:E:1712:LYS:HG3	1.81	0.78
1:E:2430:GLN:OE1	1:E:2497:GLN:NE2	2.15	0.78
1:A:2430:GLN:OE1	1:A:2497:GLN:NE2	2.15	0.78
1:B:2278:GLN:OE1	1:B:2281:ARG:NH2	2.17	0.78
1:C:1082:LEU:HB3	1:C:1614:VAL:HG22	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2117:LEU:HG	1:E:2172:MET:CG	2.13	0.78
1:B:1660:TRP:O	1:B:1712:LYS:HG2	1.84	0.78
1:E:2239:ALA:HB1	1:E:2243:ARG:HH12	1.48	0.78
1:E:2278:GLN:OE1	1:E:2281:ARG:NH2	2.17	0.78
1:D:1082:LEU:HB3	1:D:1614:VAL:HG22	1.64	0.78
1:C:2430:GLN:OE1	1:C:2497:GLN:NE2	2.16	0.78
1:A:2205:GLN:HA	1:B:2087:LYS:HG2	1.66	0.78
1:C:2437:ASP:OD1	1:C:2438:LYS:N	2.16	0.78
1:E:1660:TRP:O	1:E:1712:LYS:HG2	1.84	0.78
1:A:1971:ARG:NH2	1:E:976:GLN:HB2	1.97	0.78
1:A:2165:MET:SD	1:B:2124:LEU:HG	2.24	0.78
1:C:100:ALA:HB1	1:C:1950:PRO:HG3	1.67	0.78
1:C:2189:ARG:HG3	1:C:2189:ARG:HH11	1.50	0.78
1:A:2189:ARG:HG3	1:A:2189:ARG:HH11	1.49	0.77
1:B:100:ALA:HB1	1:B:1950:PRO:HG3	1.67	0.77
1:C:2169:ALA:HA	1:D:2124:LEU:CD1	1.95	0.77
1:D:2172:MET:CG	1:E:2117:LEU:HG	2.14	0.77
1:A:1809:GLY:O	1:A:1810:GLN:O	2.03	0.77
1:A:2239:ALA:HB1	1:A:2243:ARG:HH12	1.48	0.77
1:E:1103:ASN:ND2	1:E:1598:TRP:NE1	2.32	0.77
1:C:2239:ALA:HB1	1:C:2243:ARG:HH12	1.48	0.77
1:D:1272:ASP:OD2	1:E:1626:SER:CB	2.31	0.77
1:D:1660:TRP:O	1:D:1712:LYS:HG2	1.84	0.77
1:E:1082:LEU:HB3	1:E:1614:VAL:HG22	1.64	0.77
1:C:1103:ASN:ND2	1:C:1598:TRP:NE1	2.32	0.77
1:D:2239:ALA:HB1	1:D:2243:ARG:HH12	1.48	0.77
1:E:2437:ASP:OD1	1:E:2438:LYS:N	2.16	0.77
1:A:1270:PHE:H	1:B:1808:HIS:CE1	1.96	0.77
1:A:2278:GLN:OE1	1:A:2281:ARG:NH2	2.17	0.77
1:B:2239:ALA:HB1	1:B:2243:ARG:HH12	1.48	0.77
1:C:2278:GLN:OE1	1:C:2281:ARG:NH2	2.17	0.77
1:A:100:ALA:HB1	1:A:1950:PRO:HG3	1.67	0.77
1:A:1103:ASN:ND2	1:A:1598:TRP:NE1	2.32	0.77
1:B:1103:ASN:ND2	1:B:1598:TRP:NE1	2.32	0.77
1:B:1809:GLY:O	1:B:1810:GLN:O	2.03	0.77
1:C:2176:ALA:CB	1:D:2117:LEU:HB3	2.15	0.77
1:A:2117:LEU:HD21	1:E:2173:ASN:HA	1.66	0.77
1:D:2278:GLN:OE1	1:D:2281:ARG:NH2	2.17	0.77
1:D:2179:ILE:HG21	1:E:2114:ALA:N	1.98	0.77
1:D:2176:ALA:CB	1:E:2117:LEU:HB3	2.15	0.77
1:A:1872:GLU:OE2	1:E:1029:SER:HB3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:100:ALA:HB1	1:D:1950:PRO:HG3	1.67	0.77
1:C:1774:TYR:OH	1:C:1848:TYR:OH	2.01	0.77
1:A:2437:ASP:OD1	1:A:2438:LYS:N	2.16	0.77
1:C:1272:ASP:OD2	1:D:1626:SER:CB	2.32	0.77
1:B:2179:ILE:HG21	1:C:2114:ALA:N	2.00	0.77
1:E:1809:GLY:O	1:E:1810:GLN:O	2.02	0.77
1:A:1660:TRP:O	1:A:1712:LYS:HG2	1.84	0.76
1:D:1103:ASN:ND2	1:D:1598:TRP:NE1	2.32	0.76
1:B:2189:ARG:HG3	1:B:2189:ARG:HH11	1.49	0.76
1:C:1981:LEU:HD13	1:C:1983:LEU:HG	1.68	0.76
1:B:2208:ALA:HB1	1:C:2084:VAL:HG22	1.67	0.76
1:D:1809:GLY:O	1:D:1810:GLN:O	2.03	0.76
1:A:2305:LEU:CD2	1:E:2258:LEU:HB2	2.14	0.76
1:B:2172:MET:HE2	1:C:2121:ALA:HB2	1.67	0.76
1:E:100:ALA:HB1	1:E:1950:PRO:HG3	1.67	0.76
1:E:1981:LEU:HD13	1:E:1983:LEU:HG	1.68	0.76
1:A:1029:SER:HB3	1:B:1872:GLU:OE2	1.84	0.76
1:A:2179:ILE:HG22	1:B:2110:GLY:O	1.85	0.76
1:C:1242:GLU:CB	1:D:1806:ILE:CG1	2.64	0.76
1:C:2205:GLN:HA	1:D:2087:LYS:HG2	1.66	0.76
1:D:2189:ARG:HH11	1:D:2189:ARG:HG3	1.49	0.76
1:B:2176:ALA:CB	1:C:2117:LEU:HB3	2.16	0.76
1:A:2273:CYS:HB3	1:A:2292:ILE:HG12	1.68	0.76
1:C:1809:GLY:O	1:C:1810:GLN:O	2.03	0.76
1:C:2272:ARG:NH2	1:D:2318:GLU:CG	2.48	0.76
1:C:1660:TRP:O	1:C:1712:LYS:HG2	1.84	0.76
1:C:2179:ILE:HG21	1:D:2114:ALA:N	1.99	0.76
1:E:2189:ARG:HG3	1:E:2189:ARG:HH11	1.49	0.76
1:B:1029:SER:HB3	1:C:1872:GLU:OE2	1.86	0.76
1:D:1242:GLU:CB	1:E:1806:ILE:CG1	2.64	0.76
1:E:2273:CYS:HB3	1:E:2292:ILE:HG12	1.68	0.76
1:B:2273:CYS:HB3	1:B:2292:ILE:HG12	1.68	0.75
1:A:1626:SER:CB	1:E:1272:ASP:OD2	2.31	0.75
1:A:1806:ILE:HG23	1:E:1242:GLU:CB	2.16	0.75
1:A:2108:ASN:ND2	1:E:2187:ARG:NH1	2.34	0.75
1:A:2172:MET:CG	1:B:2117:LEU:HG	2.16	0.75
1:B:2169:ALA:HA	1:C:2124:LEU:CD1	1.97	0.75
1:C:2173:ASN:HA	1:D:2117:LEU:HD21	1.67	0.75
1:D:2258:LEU:HB2	1:E:2305:LEU:CD2	2.14	0.75
1:C:2172:MET:CG	1:D:2117:LEU:HG	2.15	0.75
1:D:2205:GLN:HA	1:E:2087:LYS:HG2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2189:ARG:HG3	1:D:2189:ARG:NH1	2.02	0.75
1:A:2084:VAL:HG22	1:E:2208:ALA:HB1	1.68	0.75
1:A:2169:ALA:HB3	1:B:2124:LEU:HD21	1.61	0.75
1:C:2169:ALA:HB3	1:D:2124:LEU:HD21	1.64	0.75
1:B:1272:ASP:OD2	1:C:1626:SER:CB	2.34	0.75
1:B:2437:ASP:OD1	1:B:2438:LYS:N	2.16	0.75
1:C:2382:ASP:OD2	1:D:2403:PRO:C	2.25	0.75
1:D:2208:ALA:HB1	1:E:2084:VAL:HG22	1.68	0.75
1:D:2169:ALA:HB3	1:E:2124:LEU:HD22	1.60	0.75
1:A:1981:LEU:HD13	1:A:1983:LEU:HG	1.67	0.75
1:A:1272:ASP:OD2	1:B:1626:SER:CB	2.33	0.75
1:D:1242:GLU:CB	1:E:1806:ILE:HG23	2.16	0.75
1:D:1981:LEU:HD13	1:D:1983:LEU:HG	1.68	0.75
1:D:2272:ARG:NH2	1:E:2318:GLU:CG	2.48	0.75
1:A:2258:LEU:HB2	1:B:2305:LEU:CD2	2.15	0.75
1:B:1660:TRP:CH2	1:B:1680:GLN:OE1	2.40	0.75
1:B:2179:ILE:HG22	1:C:2110:GLY:O	1.86	0.75
1:C:1660:TRP:CH2	1:C:1680:GLN:OE1	2.40	0.75
1:B:2173:ASN:HA	1:C:2117:LEU:HD21	1.67	0.75
1:D:2173:ASN:HA	1:E:2117:LEU:HD21	1.67	0.74
1:D:2382:ASP:OD2	1:E:2403:PRO:C	2.24	0.74
1:A:2305:LEU:HD13	1:E:2254:LEU:HD11	1.70	0.74
1:A:1660:TRP:CH2	1:A:1680:GLN:OE1	2.40	0.74
1:A:2272:ARG:NH2	1:B:2318:GLU:CG	2.50	0.74
1:C:2208:ALA:HB1	1:D:2084:VAL:HG22	1.69	0.74
1:E:1660:TRP:CH2	1:E:1680:GLN:OE1	2.40	0.74
1:A:2189:ARG:HG3	1:A:2189:ARG:NH1	2.02	0.74
1:D:1660:TRP:CH2	1:D:1680:GLN:OE1	2.40	0.74
1:D:2273:CYS:HB3	1:D:2292:ILE:HG12	1.68	0.74
1:C:2187:ARG:NH1	1:D:2108:ASN:ND2	2.34	0.74
1:D:2179:ILE:HG22	1:E:2110:GLY:O	1.86	0.74
1:A:2087:LYS:HG2	1:E:2205:GLN:HA	1.68	0.74
1:A:1155:LYS:HG3	1:A:1156:SER:H	1.53	0.74
1:A:2117:LEU:HB3	1:E:2176:ALA:CB	2.17	0.74
1:D:2437:ASP:OD1	1:D:2438:LYS:N	2.16	0.74
1:A:2114:ALA:N	1:E:2179:ILE:HG21	2.03	0.74
1:A:2205:GLN:N	1:B:2087:LYS:HG2	2.03	0.74
1:B:1981:LEU:HD13	1:B:1983:LEU:HG	1.67	0.74
1:A:2208:ALA:HB1	1:B:2084:VAL:HG22	1.69	0.74
1:B:2258:LEU:HB2	1:C:2305:LEU:CD2	2.15	0.74
1:C:2273:CYS:HB3	1:C:2292:ILE:HG12	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1155:LYS:HG3	1:D:1156:SER:H	1.53	0.74
1:B:1841:ALA:O	1:B:1842:GLN:HB2	1.88	0.74
1:C:2187:ARG:NH1	1:D:2108:ASN:HD21	1.86	0.74
1:D:2125:THR:O	1:D:2129:GLN:HG2	1.88	0.74
1:A:2108:ASN:HD21	1:E:2187:ARG:NH1	1.84	0.74
1:C:2179:ILE:HG22	1:D:2110:GLY:O	1.87	0.74
1:A:108:THR:HG22	1:A:110:SER:H	1.53	0.74
1:B:1155:LYS:HG3	1:B:1156:SER:H	1.53	0.73
1:B:2272:ARG:NH2	1:C:2318:GLU:CG	2.51	0.73
1:A:2187:ARG:NH1	1:B:2108:ASN:ND2	2.35	0.73
1:B:2189:ARG:HG3	1:B:2189:ARG:NH1	2.02	0.73
1:A:1841:ALA:O	1:A:1842:GLN:HB2	1.88	0.73
1:C:1242:GLU:CB	1:D:1806:ILE:HG23	2.18	0.73
1:E:2189:ARG:HG3	1:E:2189:ARG:NH1	2.02	0.73
1:A:1242:GLU:CB	1:B:1806:ILE:HG23	2.18	0.73
1:B:108:THR:HG22	1:B:110:SER:H	1.53	0.73
1:C:2125:THR:O	1:C:2129:GLN:HG2	1.88	0.73
1:D:2123:GLY:O	1:D:2126:THR:OG1	2.06	0.73
1:E:108:THR:HG22	1:E:110:SER:H	1.53	0.73
1:E:2079:ASP:OD1	1:E:2217:ARG:NH1	2.22	0.73
1:A:2125:THR:O	1:A:2129:GLN:HG2	1.88	0.73
1:B:2125:THR:O	1:B:2129:GLN:HG2	1.88	0.73
1:C:108:THR:HG22	1:C:110:SER:H	1.53	0.73
1:D:108:THR:HG22	1:D:110:SER:H	1.53	0.73
1:D:2079:ASP:OD1	1:D:2217:ARG:NH1	2.22	0.73
1:A:1261:ASN:H	1:A:1287:ARG:HH12	1.37	0.73
1:B:1261:ASN:H	1:B:1287:ARG:HH12	1.37	0.73
1:B:2187:ARG:NH1	1:C:2108:ASN:ND2	2.36	0.73
1:C:2189:ARG:NH1	1:C:2189:ARG:HG3	2.02	0.73
1:B:2205:GLN:HA	1:C:2087:LYS:HG2	1.69	0.73
1:A:2403:PRO:C	1:E:2382:ASP:OD2	2.28	0.73
1:C:1044:TYR:OH	1:D:1992:PRO:HG2	1.89	0.72
1:C:1261:ASN:H	1:C:1287:ARG:HH12	1.37	0.72
1:D:2187:ARG:NH1	1:E:2108:ASN:ND2	2.36	0.72
1:A:1223:GLU:OE1	1:A:1265:GLN:NE2	2.22	0.72
1:D:1237:ALA:HB3	1:D:1246:LEU:HB2	1.72	0.72
1:A:1237:ALA:HB3	1:A:1246:LEU:HB2	1.72	0.72
1:A:2079:ASP:OD1	1:A:2217:ARG:NH1	2.22	0.72
1:A:2382:ASP:OD2	1:B:2403:PRO:C	2.27	0.72
1:B:1223:GLU:OE1	1:B:1265:GLN:NE2	2.22	0.72
1:C:2079:ASP:OD1	1:C:2217:ARG:NH1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1044:TYR:OH	1:E:1992:PRO:HG2	1.88	0.72
1:E:2125:THR:O	1:E:2129:GLN:HG2	1.88	0.72
1:A:2318:GLU:CG	1:E:2272:ARG:NH2	2.49	0.72
1:A:1242:GLU:CB	1:B:1806:ILE:CG1	2.66	0.72
1:B:2079:ASP:OD1	1:B:2217:ARG:NH1	2.22	0.72
1:D:1223:GLU:OE1	1:D:1265:GLN:NE2	2.22	0.72
1:D:1261:ASN:H	1:D:1287:ARG:HH12	1.37	0.72
1:D:1660:TRP:CD2	1:D:1680:GLN:CA	2.73	0.72
1:E:1155:LYS:HG3	1:E:1156:SER:H	1.53	0.72
1:D:2254:LEU:HD11	1:E:2305:LEU:HD13	1.70	0.72
1:E:1223:GLU:OE1	1:E:1265:GLN:NE2	2.22	0.72
1:A:2254:LEU:HD11	1:B:2305:LEU:HD13	1.70	0.72
1:C:1660:TRP:CD2	1:C:1680:GLN:CA	2.73	0.72
1:E:1237:ALA:HB3	1:E:1246:LEU:HB2	1.71	0.72
1:D:2205:GLN:N	1:E:2087:LYS:HG2	2.04	0.72
1:A:2110:GLY:O	1:E:2179:ILE:HG22	1.87	0.72
1:C:1223:GLU:OE1	1:C:1265:GLN:NE2	2.22	0.72
1:B:2187:ARG:NH1	1:C:2108:ASN:HD21	1.87	0.72
1:C:2254:LEU:HD11	1:D:2305:LEU:HD13	1.72	0.72
1:E:1774:TYR:OH	1:E:1848:TYR:OH	2.01	0.72
1:A:1806:ILE:CG1	1:E:1242:GLU:CB	2.65	0.72
1:A:2087:LYS:HG2	1:E:2205:GLN:N	2.05	0.72
1:C:1155:LYS:HG3	1:C:1156:SER:H	1.53	0.72
1:C:2459:GLN:HE22	1:C:2471:PRO:HD3	1.55	0.72
1:E:1261:ASN:H	1:E:1287:ARG:HH12	1.37	0.72
1:A:2183:GLU:HG2	1:B:2111:GLU:HG3	1.72	0.71
1:B:2459:GLN:HE22	1:B:2471:PRO:HD3	1.55	0.71
1:C:1237:ALA:HB3	1:C:1246:LEU:HB2	1.72	0.71
1:C:1841:ALA:O	1:C:1842:GLN:HB2	1.88	0.71
1:A:1660:TRP:CD2	1:A:1680:GLN:CA	2.73	0.71
1:B:1237:ALA:HB3	1:B:1246:LEU:HB2	1.72	0.71
1:B:1242:GLU:CB	1:C:1806:ILE:HG23	2.19	0.71
1:A:2187:ARG:NH1	1:B:2108:ASN:HD21	1.87	0.71
1:D:1841:ALA:O	1:D:1842:GLN:HB2	1.88	0.71
1:C:2123:GLY:O	1:C:2126:THR:OG1	2.06	0.71
1:C:2205:GLN:N	1:D:2087:LYS:HG2	2.04	0.71
1:B:1041:PRO:HD2	1:B:1847:HIS:CD2	2.26	0.71
1:D:998:ASN:CB	1:E:1881:MET:SD	2.77	0.71
1:E:1660:TRP:CD2	1:E:1680:GLN:CA	2.73	0.71
1:B:1242:GLU:CB	1:C:1806:ILE:CG1	2.66	0.71
1:B:2254:LEU:HD11	1:C:2305:LEU:HD13	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1041:PRO:HD2	1:D:1847:HIS:CD2	2.26	0.71
1:D:2187:ARG:NH1	1:E:2108:ASN:HD21	1.87	0.71
1:A:1041:PRO:HD2	1:A:1847:HIS:CD2	2.26	0.71
1:A:1992:PRO:HG2	1:E:1044:TYR:OH	1.90	0.71
1:C:2205:GLN:CA	1:D:2087:LYS:HG2	2.21	0.71
1:D:2179:ILE:CG2	1:E:2114:ALA:CB	2.67	0.71
1:E:1841:ALA:O	1:E:1842:GLN:HB2	1.88	0.71
1:E:1677:TYR:HB2	1:E:1690:LEU:HD21	1.73	0.71
1:E:1041:PRO:HD2	1:E:1847:HIS:CD2	2.26	0.71
1:D:2102:LEU:CB	1:D:2192:TRP:CE3	2.74	0.71
1:D:2471:PRO:HG3	1:E:2327:ARG:HE	1.56	0.71
1:E:2459:GLN:HE22	1:E:2471:PRO:HD3	1.55	0.71
1:A:2459:GLN:HE22	1:A:2471:PRO:HD3	1.55	0.71
1:C:2102:LEU:CB	1:C:2192:TRP:CE3	2.74	0.71
1:C:998:ASN:CB	1:D:1881:MET:SD	2.79	0.71
1:A:1600:SER:HB3	1:A:1674:HIS:CE1	2.26	0.71
1:B:2205:GLN:N	1:C:2087:LYS:HG2	2.05	0.71
1:C:1041:PRO:HD2	1:C:1847:HIS:CD2	2.26	0.71
1:A:2102:LEU:CB	1:A:2192:TRP:CE3	2.74	0.70
1:B:2099:TYR:O	1:B:2103:TYR:N	2.20	0.70
1:C:2471:PRO:HG3	1:D:2327:ARG:HE	1.55	0.70
1:E:2102:LEU:HB3	1:E:2192:TRP:CE3	2.25	0.70
1:B:2102:LEU:HB3	1:B:2192:TRP:CE3	2.25	0.70
1:B:2382:ASP:OD2	1:C:2403:PRO:C	2.29	0.70
1:C:2102:LEU:HB3	1:C:2192:TRP:CE3	2.25	0.70
1:D:1038:VAL:HG13	1:D:1840:VAL:HG11	1.73	0.70
1:D:1600:SER:HB3	1:D:1674:HIS:CE1	2.26	0.70
1:A:2172:MET:O	1:B:2117:LEU:CG	2.39	0.70
1:D:2099:TYR:O	1:D:2103:TYR:N	2.20	0.70
1:B:2169:ALA:HB3	1:C:2124:LEU:HD21	1.65	0.70
1:A:118:TYR:O	1:A:122:LEU:CB	2.39	0.70
1:A:1660:TRP:CD2	1:A:1680:GLN:HA	2.27	0.70
1:B:1774:TYR:OH	1:B:1848:TYR:OH	2.01	0.70
1:B:2102:LEU:CB	1:B:2192:TRP:CE3	2.74	0.70
1:B:2123:GLY:O	1:B:2126:THR:OG1	2.06	0.70
1:C:1038:VAL:HG13	1:C:1840:VAL:HG11	1.73	0.70
1:C:2099:TYR:O	1:C:2103:TYR:N	2.20	0.70
1:D:2179:ILE:CB	1:E:2114:ALA:HB2	2.21	0.70
1:E:1660:TRP:CD2	1:E:1680:GLN:HA	2.27	0.70
1:E:2102:LEU:CB	1:E:2192:TRP:CE3	2.74	0.70
1:C:1824:ASP:O	1:C:1825:THR:OG1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:118:TYR:O	1:E:122:LEU:CB	2.39	0.70
1:A:1677:TYR:HB2	1:A:1690:LEU:HD21	1.73	0.70
1:B:2103:TYR:HB2	1:B:2196:ARG:NH1	2.07	0.70
1:C:1660:TRP:CD2	1:C:1680:GLN:HA	2.27	0.70
1:D:1660:TRP:CD2	1:D:1680:GLN:HA	2.27	0.70
1:D:2205:GLN:CA	1:E:2087:LYS:HG2	2.21	0.70
1:A:2172:MET:HE2	1:B:2121:ALA:HB2	1.73	0.70
1:A:2205:GLN:CA	1:B:2087:LYS:HG2	2.20	0.70
1:B:1787:GLN:HB2	1:B:2011:GLU:OE2	1.91	0.70
1:D:2459:GLN:HE22	1:D:2471:PRO:HD3	1.55	0.70
1:B:2172:MET:O	1:C:2117:LEU:CG	2.40	0.70
1:B:2179:ILE:CB	1:C:2114:ALA:HB2	2.22	0.70
1:D:1787:GLN:HB2	1:D:2011:GLU:OE2	1.91	0.70
1:C:2447:ALA:HB3	1:D:2329:LEU:HD22	1.74	0.70
1:E:1648:PRO:HD3	1:E:1745:GLU:HG3	1.74	0.70
1:A:2102:LEU:HB3	1:A:2192:TRP:CE3	2.25	0.69
1:A:1648:PRO:HD3	1:A:1745:GLU:HG3	1.74	0.69
1:B:1660:TRP:CD2	1:B:1680:GLN:HA	2.27	0.69
1:A:2471:PRO:HG3	1:B:2327:ARG:HE	1.58	0.69
1:C:2179:ILE:CG2	1:D:2114:ALA:CB	2.68	0.69
1:C:118:TYR:O	1:C:122:LEU:CB	2.39	0.69
1:D:2094:SER:O	1:D:2098:SER:HB2	1.93	0.69
1:D:2102:LEU:HB3	1:D:2192:TRP:CE3	2.25	0.69
1:B:1600:SER:HB3	1:B:1674:HIS:CE1	2.26	0.69
1:C:1787:GLN:HB2	1:C:2011:GLU:OE2	1.91	0.69
1:C:2103:TYR:HB2	1:C:2196:ARG:NH1	2.07	0.69
1:E:2103:TYR:HB2	1:E:2196:ARG:NH1	2.07	0.69
1:A:1787:GLN:HB2	1:A:2011:GLU:OE2	1.91	0.69
1:A:998:ASN:CB	1:B:1881:MET:SD	2.80	0.69
1:A:2194:ILE:HG21	1:B:2099:TYR:CZ	2.27	0.69
1:A:1881:MET:SD	1:E:998:ASN:CB	2.79	0.69
1:B:118:TYR:O	1:B:122:LEU:CB	2.39	0.69
1:A:1044:TYR:OH	1:B:1992:PRO:HG2	1.91	0.69
1:E:1038:VAL:HG13	1:E:1840:VAL:HG11	1.73	0.69
1:E:1600:SER:HB3	1:E:1674:HIS:CE1	2.26	0.69
1:B:2094:SER:O	1:B:2098:SER:HB2	1.93	0.69
1:C:2094:SER:O	1:C:2098:SER:HB2	1.93	0.69
1:A:1038:VAL:HG13	1:A:1840:VAL:HG11	1.73	0.69
1:A:2123:GLY:O	1:A:2126:THR:OG1	2.06	0.69
1:B:2205:GLN:CA	1:C:2087:LYS:HG2	2.23	0.69
1:C:1600:SER:HB3	1:C:1674:HIS:CE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1604:ARG:NH2	1:E:1635:PRO:O	2.26	0.69
1:E:2094:SER:O	1:E:2098:SER:HB2	1.93	0.69
1:A:2094:SER:O	1:A:2098:SER:HB2	1.93	0.69
1:B:1038:VAL:HG13	1:B:1840:VAL:HG11	1.73	0.69
1:C:2179:ILE:CB	1:D:2114:ALA:HB2	2.23	0.69
1:C:2172:MET:O	1:D:2117:LEU:CG	2.41	0.69
1:D:160:SER:OG	1:D:982:LYS:CD	2.41	0.69
1:A:2179:ILE:CB	1:B:2114:ALA:HB2	2.22	0.68
1:A:160:SER:OG	1:A:982:LYS:CD	2.41	0.68
1:B:1026:LYS:HG3	1:B:1027:ARG:HG3	1.75	0.68
1:B:160:SER:OG	1:B:982:LYS:CD	2.41	0.68
1:C:1026:LYS:HG3	1:C:1027:ARG:HG3	1.75	0.68
1:D:1648:PRO:HD3	1:D:1745:GLU:HG3	1.74	0.68
1:B:1044:TYR:OH	1:C:1992:PRO:HG2	1.93	0.68
1:D:1026:LYS:HG3	1:D:1027:ARG:HG3	1.75	0.68
1:D:1774:TYR:OH	1:D:1848:TYR:OH	2.01	0.68
1:D:2194:ILE:HG21	1:E:2099:TYR:CZ	2.28	0.68
1:D:2103:TYR:HB2	1:D:2196:ARG:NH1	2.07	0.68
1:E:1787:GLN:HB2	1:E:2011:GLU:OE2	1.91	0.68
1:D:2183:GLU:HG2	1:E:2111:GLU:HG3	1.73	0.68
1:A:1824:ASP:O	1:A:1825:THR:OG1	2.10	0.68
1:C:1677:TYR:HB2	1:C:1690:LEU:HD21	1.73	0.68
1:B:2183:GLU:HG2	1:C:2111:GLU:HG3	1.75	0.68
1:E:2123:GLY:O	1:E:2126:THR:OG1	2.06	0.68
1:A:2327:ARG:HE	1:E:2471:PRO:HG3	1.59	0.68
1:A:2099:TYR:O	1:A:2103:TYR:N	2.20	0.68
1:B:2179:ILE:CG2	1:C:2114:ALA:CB	2.68	0.68
1:D:118:TYR:O	1:D:122:LEU:CB	2.40	0.68
1:D:1677:TYR:HB2	1:D:1690:LEU:HD21	1.73	0.68
1:B:1604:ARG:NH2	1:B:1635:PRO:O	2.26	0.68
1:B:1677:TYR:HB2	1:B:1690:LEU:HD21	1.73	0.68
1:B:1648:PRO:HD3	1:B:1745:GLU:HG3	1.74	0.68
1:A:2169:ALA:CB	1:B:2124:LEU:CG	2.34	0.68
1:E:1824:ASP:O	1:E:1825:THR:OG1	2.10	0.68
1:A:2103:TYR:HB2	1:A:2196:ARG:NH1	2.07	0.68
1:E:1026:LYS:HG3	1:E:1027:ARG:HG3	1.75	0.68
1:D:2172:MET:O	1:E:2117:LEU:CG	2.40	0.68
1:E:2072:ASP:OD1	1:E:2224:LYS:HE2	1.94	0.68
1:A:1989:PRO:HB3	1:E:1032:ALA:HB3	1.74	0.68
1:A:2087:LYS:HG2	1:E:2205:GLN:CA	2.22	0.68
1:A:2176:ALA:CB	1:B:2117:LEU:HD13	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:160:SER:OG	1:C:982:LYS:CD	2.41	0.68
1:D:2072:ASP:OD1	1:D:2224:LYS:HE2	1.94	0.68
1:D:2447:ALA:HB3	1:E:2329:LEU:HD22	1.75	0.68
1:D:974:ASP:OD2	1:E:1880:LYS:NZ	2.21	0.68
1:A:2072:ASP:OD1	1:A:2224:LYS:HE2	1.94	0.68
1:B:1685:ASN:ND2	1:B:1745:GLU:OE2	2.27	0.68
1:B:2072:ASP:OD1	1:B:2224:LYS:HE2	1.94	0.68
1:C:2176:ALA:CB	1:D:2117:LEU:HD13	2.24	0.68
1:A:1685:ASN:ND2	1:A:1745:GLU:OE2	2.27	0.68
1:A:981:ILE:CD1	1:B:1973:ASN:HB2	2.24	0.68
1:C:1868:TYR:HE1	1:C:1970:LEU:HG	1.59	0.68
1:B:2447:ALA:HB3	1:C:2329:LEU:HD22	1.76	0.68
1:E:160:SER:OG	1:E:982:LYS:CD	2.41	0.68
1:B:1660:TRP:CD2	1:B:1680:GLN:CA	2.73	0.67
1:C:1604:ARG:NH2	1:C:1635:PRO:O	2.26	0.67
1:C:1648:PRO:HD3	1:C:1745:GLU:HG3	1.74	0.67
1:D:1868:TYR:HE1	1:D:1970:LEU:HG	1.59	0.67
1:A:1604:ARG:NH2	1:A:1635:PRO:O	2.26	0.67
1:A:2114:ALA:HB2	1:E:2179:ILE:CB	2.24	0.67
1:C:1790:ASP:OD1	1:C:1863:ARG:NH2	2.26	0.67
1:D:1604:ARG:NH2	1:D:1635:PRO:O	2.26	0.67
1:E:1685:ASN:ND2	1:E:1745:GLU:OE2	2.28	0.67
1:A:1026:LYS:HG3	1:A:1027:ARG:HG3	1.75	0.67
1:A:187:GLU:O	1:A:191:THR:CB	2.42	0.67
1:A:2117:LEU:CG	1:E:2172:MET:O	2.42	0.67
1:B:1790:ASP:OD1	1:B:1863:ARG:NH2	2.27	0.67
1:C:93:ASN:CG	1:C:1894:PRO:HB3	2.15	0.67
1:C:2072:ASP:OD1	1:C:2224:LYS:HE2	1.94	0.67
1:D:93:ASN:CG	1:D:1894:PRO:HB3	2.15	0.67
1:E:1806:ILE:HG13	1:E:1810:GLN:O	1.95	0.67
1:A:1790:ASP:OD1	1:A:1863:ARG:NH2	2.26	0.67
1:A:1868:TYR:HE1	1:A:1970:LEU:HG	1.59	0.67
1:C:2172:MET:HE2	1:D:2121:ALA:HB2	1.75	0.67
1:D:187:GLU:O	1:D:191:THR:CB	2.42	0.67
1:D:981:ILE:CD1	1:E:1973:ASN:HB2	2.24	0.67
1:B:1868:TYR:HE1	1:B:1970:LEU:HG	1.59	0.67
1:A:2117:LEU:HD13	1:E:2176:ALA:CB	2.23	0.67
1:A:974:ASP:HB3	1:A:977:VAL:HG23	1.76	0.67
1:A:981:ILE:HD11	1:B:1973:ASN:HB2	1.77	0.67
1:A:2176:ALA:H	1:B:2117:LEU:HD11	1.57	0.67
1:C:2029:MET:HE3	1:C:2272:ARG:HD2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1032:ALA:HB3	1:E:1989:PRO:HB3	1.76	0.67
1:D:1685:ASN:ND2	1:D:1745:GLU:OE2	2.27	0.67
1:E:187:GLU:O	1:E:191:THR:CB	2.42	0.67
1:A:2179:ILE:CG2	1:B:2114:ALA:CB	2.68	0.67
1:B:2172:MET:C	1:C:2117:LEU:HD21	2.14	0.67
1:D:1790:ASP:OD1	1:D:1863:ARG:NH2	2.26	0.67
1:E:136:TYR:HE2	1:E:1006:GLU:H	1.43	0.67
1:A:117:ALA:O	1:A:120:THR:N	2.28	0.67
1:A:136:TYR:HE2	1:A:1006:GLU:H	1.43	0.67
1:C:136:TYR:HE2	1:C:1006:GLU:H	1.43	0.67
1:C:974:ASP:HB3	1:C:977:VAL:HG23	1.76	0.67
1:A:93:ASN:CG	1:A:1894:PRO:HB3	2.15	0.67
1:B:117:ALA:O	1:B:120:THR:N	2.28	0.67
1:B:136:TYR:HE2	1:B:1006:GLU:H	1.43	0.67
1:B:1824:ASP:O	1:B:1825:THR:OG1	2.10	0.67
1:C:1657:ASP:HA	1:C:1713:LYS:HD2	1.77	0.67
1:C:1685:ASN:ND2	1:C:1745:GLU:OE2	2.27	0.67
1:C:2176:ALA:H	1:D:2117:LEU:HD11	1.59	0.67
1:D:1806:ILE:HG13	1:D:1810:GLN:O	1.95	0.67
1:A:2124:LEU:HD11	1:E:2165:MET:O	1.95	0.67
1:A:2179:ILE:HG22	1:B:2114:ALA:CB	2.23	0.67
1:B:1737:PRO:HB3	1:B:1741:LEU:HD13	1.77	0.67
1:C:2183:GLU:HG2	1:D:2111:GLU:HG3	1.74	0.67
1:A:2329:LEU:HD22	1:E:2447:ALA:HB3	1.77	0.66
1:B:187:GLU:O	1:B:191:THR:CB	2.43	0.66
1:B:93:ASN:CG	1:B:1894:PRO:HB3	2.15	0.66
1:B:2471:PRO:HG3	1:C:2327:ARG:HE	1.59	0.66
1:C:2172:MET:C	1:D:2117:LEU:HD21	2.16	0.66
1:D:2172:MET:C	1:E:2117:LEU:HD21	2.14	0.66
1:D:2172:MET:HE2	1:E:2121:ALA:HB2	1.76	0.66
1:A:2117:LEU:HD21	1:E:2172:MET:C	2.15	0.66
1:A:1737:PRO:HB3	1:A:1741:LEU:HD13	1.77	0.66
1:B:974:ASP:HB3	1:B:977:VAL:HG23	1.76	0.66
1:B:2194:ILE:HG21	1:C:2099:TYR:CZ	2.29	0.66
1:A:1806:ILE:HG13	1:A:1810:GLN:O	1.95	0.66
1:B:2165:MET:O	1:C:2124:LEU:HD11	1.95	0.66
1:D:2176:ALA:CB	1:E:2117:LEU:HD13	2.25	0.66
1:A:1032:ALA:HB3	1:B:1989:PRO:HB3	1.76	0.66
1:A:2111:GLU:HG3	1:E:2183:GLU:HG2	1.77	0.66
1:C:187:GLU:O	1:C:191:THR:CB	2.43	0.66
1:D:115:PRO:HG2	1:E:1986:TYR:CD1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1657:ASP:HA	1:D:1713:LYS:HD2	1.77	0.66
1:E:974:ASP:HB3	1:E:977:VAL:HG23	1.76	0.66
1:C:1737:PRO:HB3	1:C:1741:LEU:HD13	1.77	0.66
1:D:1283:SER:O	1:D:1287:ARG:HG3	1.96	0.66
1:B:1806:ILE:HG13	1:B:1810:GLN:O	1.95	0.66
1:C:117:ALA:O	1:C:120:THR:N	2.28	0.66
1:C:2194:ILE:HG21	1:D:2099:TYR:CZ	2.30	0.66
1:A:184:LYS:O	1:A:188:MET:CB	2.44	0.66
1:A:2172:MET:C	1:B:2117:LEU:HD21	2.15	0.66
1:C:1664:TYR:CE2	1:C:1675:ILE:HG13	2.31	0.66
1:D:184:LYS:O	1:D:188:MET:CB	2.44	0.66
1:E:117:ALA:O	1:E:120:THR:N	2.28	0.66
1:E:1283:SER:O	1:E:1287:ARG:HG3	1.96	0.66
1:E:1657:ASP:HA	1:E:1713:LYS:HD2	1.77	0.66
1:A:2447:ALA:HB3	1:B:2329:LEU:HD22	1.78	0.66
1:B:1026:LYS:HZ3	1:C:1878:GLU:CD	1.98	0.66
1:B:1657:ASP:HA	1:B:1713:LYS:HD2	1.77	0.66
1:C:2382:ASP:CG	1:D:2404:ALA:H	1.98	0.66
1:D:136:TYR:HE2	1:D:1006:GLU:H	1.43	0.66
1:E:1139:ASN:HB2	1:E:1842:GLN:OE1	1.96	0.66
1:E:1664:TYR:CE2	1:E:1675:ILE:HG13	2.31	0.66
1:E:2029:MET:HE3	1:E:2272:ARG:HD2	1.77	0.66
1:D:2382:ASP:CG	1:E:2404:ALA:H	1.99	0.66
1:B:1168:TYR:CD2	1:B:1202:HIS:HB3	2.31	0.66
1:B:1218:ASN:O	1:B:1222:SER:HB2	1.96	0.66
1:C:1806:ILE:HG13	1:C:1810:GLN:O	1.95	0.66
1:E:184:LYS:O	1:E:188:MET:CB	2.44	0.66
1:A:1168:TYR:CD2	1:A:1202:HIS:HB3	2.31	0.66
1:A:2099:TYR:CZ	1:E:2194:ILE:HG21	2.31	0.66
1:C:1283:SER:O	1:C:1287:ARG:HG3	1.96	0.66
1:D:974:ASP:HB3	1:D:977:VAL:HG23	1.76	0.66
1:B:1032:ALA:HB3	1:C:1989:PRO:HB3	1.77	0.65
1:C:1168:TYR:CD2	1:C:1202:HIS:HB3	2.31	0.65
1:D:1824:ASP:O	1:D:1825:THR:OG1	2.10	0.65
1:C:981:ILE:CD1	1:D:1973:ASN:HB2	2.25	0.65
1:D:2169:ALA:HB3	1:E:2124:LEU:HD21	1.63	0.65
1:B:184:LYS:O	1:B:188:MET:CB	2.44	0.65
1:D:1218:ASN:O	1:D:1222:SER:HB2	1.96	0.65
1:D:1295:ASP:OD1	1:D:1296:THR:N	2.28	0.65
1:D:1139:ASN:HB2	1:D:1842:GLN:OE1	1.96	0.65
1:E:1295:ASP:OD1	1:E:1296:THR:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1787:GLN:HB2	1:E:2011:GLU:CD	2.17	0.65
1:D:2176:ALA:CB	1:E:2117:LEU:CG	2.52	0.65
1:A:1880:LYS:NZ	1:E:974:ASP:OD2	2.20	0.65
1:C:184:LYS:O	1:C:188:MET:CB	2.44	0.65
1:D:117:ALA:O	1:D:120:THR:N	2.28	0.65
1:D:1787:GLN:HB2	1:D:2011:GLU:CD	2.17	0.65
1:E:1218:ASN:O	1:E:1222:SER:HB2	1.96	0.65
1:A:1664:TYR:CE2	1:A:1675:ILE:HG13	2.31	0.65
1:D:1264:MET:SD	1:D:1287:ARG:HG2	2.36	0.65
1:B:998:ASN:CB	1:C:1881:MET:SD	2.82	0.65
1:D:1604:ARG:HB2	1:D:1637:LEU:HD21	1.79	0.65
1:D:2413:LYS:N	1:D:2512:ARG:O	2.26	0.65
1:E:1737:PRO:HB3	1:E:1741:LEU:HD13	1.77	0.65
1:A:1139:ASN:HB2	1:A:1842:GLN:OE1	1.96	0.65
1:C:1032:ALA:HB3	1:D:1989:PRO:HB3	1.79	0.65
1:D:1737:PRO:HB3	1:D:1741:LEU:HD13	1.77	0.65
1:E:1790:ASP:OD1	1:E:1863:ARG:NH2	2.26	0.65
1:E:1868:TYR:HE1	1:E:1970:LEU:HG	1.60	0.65
1:E:93:ASN:CG	1:E:1894:PRO:HB3	2.15	0.65
1:A:1657:ASP:HA	1:A:1713:LYS:HD2	1.77	0.65
1:A:2222:LEU:HD11	1:B:2073:LYS:CE	2.27	0.65
1:A:2165:MET:O	1:B:2124:LEU:HD11	1.97	0.65
1:C:1026:LYS:HZ3	1:D:1878:GLU:CD	2.00	0.65
1:C:1787:GLN:HB2	1:C:2011:GLU:CD	2.17	0.65
1:D:2172:MET:CE	1:E:2121:ALA:HA	2.27	0.65
1:A:1806:ILE:CG2	1:E:1242:GLU:CB	2.74	0.65
1:B:1264:MET:SD	1:B:1287:ARG:HG2	2.36	0.65
1:B:2176:ALA:H	1:C:2117:LEU:HD11	1.62	0.65
1:C:1044:TYR:CZ	1:D:1992:PRO:CB	2.80	0.65
1:C:974:ASP:OD2	1:D:1880:LYS:NZ	2.23	0.65
1:D:1044:TYR:CZ	1:E:1992:PRO:HB2	2.31	0.65
1:D:1168:TYR:CD2	1:D:1202:HIS:HB3	2.31	0.65
1:D:1664:TYR:CE2	1:D:1675:ILE:HG13	2.31	0.65
1:D:981:ILE:HD11	1:E:1973:ASN:HB2	1.78	0.65
1:A:1122:TYR:HD1	1:A:1146:LYS:HA	1.62	0.65
1:A:1787:GLN:HB2	1:A:2011:GLU:CD	2.17	0.65
1:B:1283:SER:O	1:B:1287:ARG:HG3	1.96	0.65
1:B:2176:ALA:CB	1:C:2117:LEU:HD13	2.26	0.65
1:D:1242:GLU:CB	1:E:1806:ILE:CG2	2.75	0.65
1:E:1168:TYR:CD2	1:E:1202:HIS:HB3	2.31	0.65
1:E:1264:MET:SD	1:E:1287:ARG:HG2	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2099:TYR:O	1:E:2103:TYR:N	2.20	0.65
1:A:1264:MET:SD	1:A:1287:ARG:HG2	2.36	0.65
1:A:2036:PHE:CE1	1:B:2308:GLU:CD	2.71	0.65
1:C:115:PRO:HG2	1:D:1986:TYR:CD1	2.32	0.65
1:D:2258:LEU:CB	1:E:2305:LEU:HD21	2.20	0.65
1:A:1283:SER:O	1:A:1287:ARG:HG3	1.96	0.64
1:B:1072:ASP:OD1	1:B:1072:ASP:N	2.28	0.64
1:B:1664:TYR:CE2	1:B:1675:ILE:HG13	2.31	0.64
1:C:2036:PHE:CE1	1:D:2308:GLU:CD	2.69	0.64
1:D:2165:MET:O	1:E:2124:LEU:HD11	1.97	0.64
1:A:1218:ASN:O	1:A:1222:SER:HB2	1.96	0.64
1:A:2382:ASP:CG	1:B:2404:ALA:H	2.00	0.64
1:C:1218:ASN:O	1:C:1222:SER:HB2	1.96	0.64
1:C:1264:MET:SD	1:C:1287:ARG:HG2	2.36	0.64
1:A:1072:ASP:N	1:A:1072:ASP:OD1	2.28	0.64
1:A:1973:ASN:HB2	1:E:981:ILE:CD1	2.27	0.64
1:B:1787:GLN:HB2	1:B:2011:GLU:CD	2.17	0.64
1:A:2258:LEU:CB	1:B:2305:LEU:HD21	2.21	0.64
1:D:1044:TYR:CZ	1:E:1992:PRO:CB	2.80	0.64
1:B:1122:TYR:HD1	1:B:1146:LYS:HA	1.62	0.64
1:C:1604:ARG:HB2	1:C:1637:LEU:HD21	1.79	0.64
1:C:1641:PHE:N	1:C:1692:ILE:O	2.28	0.64
1:B:981:ILE:HD11	1:C:1973:ASN:HB2	1.79	0.64
1:C:2172:MET:CE	1:D:2121:ALA:HA	2.28	0.64
1:C:981:ILE:HD11	1:D:1973:ASN:HB2	1.78	0.64
1:E:1122:TYR:HD1	1:E:1146:LYS:HA	1.62	0.64
1:E:2413:LYS:N	1:E:2512:ARG:O	2.26	0.64
1:A:2121:ALA:N	1:E:2172:MET:HE1	2.11	0.64
1:C:1139:ASN:HB2	1:C:1842:GLN:OE1	1.96	0.64
1:C:1242:GLU:CB	1:D:1806:ILE:CG2	2.76	0.64
1:C:2176:ALA:CB	1:D:2117:LEU:CD1	2.76	0.64
1:C:2165:MET:O	1:D:2124:LEU:HD11	1.98	0.64
1:D:1624:ILE:HD12	1:D:1629:THR:HG21	1.80	0.64
1:D:2176:ALA:H	1:E:2117:LEU:HD11	1.60	0.64
1:A:1973:ASN:HB2	1:E:981:ILE:HD11	1.79	0.64
1:A:1295:ASP:OD1	1:A:1296:THR:N	2.28	0.64
1:A:1986:TYR:CD1	1:E:115:PRO:HG2	2.33	0.64
1:C:2222:LEU:HD11	1:D:2073:LYS:CE	2.27	0.64
1:D:2036:PHE:CE1	1:E:2308:GLU:CD	2.71	0.64
1:D:2222:LEU:HD11	1:E:2073:LYS:CE	2.28	0.64
1:C:1122:TYR:HD1	1:C:1146:LYS:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1072:ASP:OD1	1:D:1072:ASP:N	2.28	0.64
1:C:1072:ASP:N	1:C:1072:ASP:OD1	2.28	0.63
1:E:1604:ARG:HB2	1:E:1637:LEU:HD21	1.79	0.63
1:A:1604:ARG:HB2	1:A:1637:LEU:HD21	1.79	0.63
1:D:1122:TYR:HD1	1:D:1146:LYS:HA	1.62	0.63
1:E:144:ASP:OD2	1:E:171:GLU:OE1	2.16	0.63
1:E:1624:ILE:HD12	1:E:1629:THR:HG21	1.80	0.63
1:A:2201:ALA:HB1	1:B:2091:GLY:HA3	1.81	0.63
1:C:1122:TYR:CD1	1:C:1146:LYS:HA	2.33	0.63
1:A:144:ASP:OD2	1:A:171:GLU:OE1	2.16	0.63
1:A:974:ASP:OD2	1:B:1880:LYS:NZ	2.20	0.63
1:B:1139:ASN:HB2	1:B:1842:GLN:OE1	1.96	0.63
1:D:1168:TYR:CE2	1:D:1202:HIS:HB3	2.34	0.63
1:C:1044:TYR:CZ	1:D:1992:PRO:HB2	2.32	0.63
1:D:2029:MET:HE3	1:D:2272:ARG:HD2	1.80	0.63
1:E:1168:TYR:CE2	1:E:1202:HIS:HB3	2.34	0.63
1:A:2404:ALA:H	1:E:2382:ASP:CG	2.02	0.63
1:B:1242:GLU:CB	1:C:1806:ILE:CG2	2.77	0.63
1:B:1604:ARG:HB2	1:B:1637:LEU:HD21	1.79	0.63
1:E:1122:TYR:CD1	1:E:1146:LYS:HA	2.33	0.63
1:A:1204:ARG:HD3	1:A:1208:THR:HG23	1.81	0.63
1:A:1286:TYR:O	1:A:1290:SER:OG	2.15	0.63
1:A:2029:MET:HE3	1:A:2272:ARG:HD2	1.81	0.63
1:A:2165:MET:HG2	1:B:2127:ALA:HB3	1.80	0.63
1:B:1122:TYR:CD1	1:B:1146:LYS:HA	2.33	0.63
1:B:1624:ILE:HD12	1:B:1629:THR:HG21	1.80	0.63
1:B:2183:GLU:HG3	1:C:2111:GLU:HG2	1.79	0.63
1:A:2434:SER:OG	1:A:2435:TYR:N	2.32	0.63
1:B:144:ASP:OD2	1:B:171:GLU:OE1	2.16	0.63
1:D:1122:TYR:CD1	1:D:1146:LYS:HA	2.33	0.63
1:D:1204:ARG:HD3	1:D:1208:THR:HG23	1.81	0.63
1:A:1168:TYR:CE2	1:A:1202:HIS:HB3	2.34	0.63
1:C:2434:SER:OG	1:C:2435:TYR:N	2.32	0.63
1:E:2434:SER:OG	1:E:2435:TYR:N	2.32	0.63
1:A:1122:TYR:CD1	1:A:1146:LYS:HA	2.33	0.63
1:B:1858:ASP:O	1:B:1862:ALA:HB2	1.99	0.63
1:B:2172:MET:CE	1:C:2121:ALA:HA	2.28	0.63
1:C:1858:ASP:O	1:C:1862:ALA:HB2	1.99	0.63
1:B:981:ILE:CD1	1:C:1973:ASN:HB2	2.28	0.63
1:B:2036:PHE:CE1	1:C:2308:GLU:CD	2.72	0.63
1:E:1204:ARG:HD3	1:E:1208:THR:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1624:ILE:HD12	1:A:1629:THR:HG21	1.80	0.62
1:B:1168:TYR:CE2	1:B:1202:HIS:HB3	2.34	0.62
1:D:144:ASP:OD2	1:D:171:GLU:OE1	2.16	0.62
1:D:2434:SER:OG	1:D:2435:TYR:N	2.32	0.62
1:A:1858:ASP:O	1:A:1862:ALA:HB2	1.99	0.62
1:E:1072:ASP:N	1:E:1072:ASP:OD1	2.28	0.62
1:A:1242:GLU:CB	1:B:1806:ILE:CG2	2.76	0.62
1:A:1992:PRO:HB2	1:E:1044:TYR:CZ	2.34	0.62
1:B:1204:ARG:HD3	1:B:1208:THR:HG23	1.81	0.62
1:C:1295:ASP:OD1	1:C:1296:THR:N	2.28	0.62
1:C:1624:ILE:HD12	1:C:1629:THR:HG21	1.80	0.62
1:C:2106:ASN:O	1:C:2107:ILE:CG1	2.47	0.62
1:D:2106:ASN:O	1:D:2107:ILE:CG1	2.47	0.62
1:C:2447:ALA:HB3	1:D:2329:LEU:CD2	2.29	0.62
1:A:2183:GLU:HG3	1:B:2111:GLU:HG2	1.79	0.62
1:C:144:ASP:OD2	1:C:171:GLU:OE1	2.16	0.62
1:D:1954:GLU:O	1:D:1957:MET:N	2.33	0.62
1:A:1044:TYR:CZ	1:B:1992:PRO:HB2	2.34	0.62
1:B:1954:GLU:O	1:B:1957:MET:N	2.33	0.62
1:C:1954:GLU:O	1:C:1957:MET:N	2.33	0.62
1:A:2308:GLU:CD	1:E:2036:PHE:CE1	2.73	0.62
1:A:2176:ALA:CB	1:B:2117:LEU:CD1	2.75	0.62
1:A:2169:ALA:CA	1:B:2124:LEU:HD11	2.03	0.62
1:C:1204:ARG:HD3	1:C:1208:THR:HG23	1.81	0.62
1:E:1641:PHE:N	1:E:1692:ILE:O	2.28	0.62
1:D:2169:ALA:CA	1:E:2124:LEU:HD11	2.05	0.62
1:A:115:PRO:HG2	1:B:1986:TYR:CD1	2.34	0.62
1:A:1872:GLU:O	1:A:1875:THR:OG1	2.15	0.62
1:B:2434:SER:OG	1:B:2435:TYR:N	2.32	0.62
1:D:1026:LYS:NZ	1:E:1878:GLU:OE2	2.32	0.62
1:B:2189:ARG:HH11	1:B:2189:ARG:CG	2.13	0.62
1:B:2382:ASP:CG	1:C:2404:ALA:H	2.03	0.62
1:A:1172:LEU:HA	1:A:1198:LEU:HA	1.82	0.62
1:B:1017:PHE:O	1:B:1025:ASN:ND2	2.33	0.62
1:A:1044:TYR:CZ	1:B:1992:PRO:CB	2.83	0.62
1:E:1858:ASP:O	1:E:1862:ALA:HB2	1.99	0.62
1:A:1954:GLU:O	1:A:1957:MET:N	2.33	0.62
1:B:2106:ASN:O	1:B:2107:ILE:CG1	2.47	0.62
1:B:2460:PHE:CZ	1:C:2330:GLU:HB3	2.34	0.62
1:E:1954:GLU:O	1:E:1957:MET:N	2.33	0.62
1:D:2201:ALA:HB1	1:E:2091:GLY:HA3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1153:PRO:HB3	1:A:1171:TRP:HB2	1.82	0.61
1:A:1992:PRO:CB	1:E:1044:TYR:CZ	2.83	0.61
1:C:1168:TYR:CE2	1:C:1202:HIS:HB3	2.34	0.61
1:C:1818:VAL:HG12	1:C:1820:PRO:HD2	1.82	0.61
1:D:1017:PHE:O	1:D:1025:ASN:ND2	2.33	0.61
1:D:1818:VAL:HG12	1:D:1820:PRO:HD2	1.82	0.61
1:B:2169:ALA:CB	1:C:2124:LEU:HD11	2.27	0.61
1:D:1172:LEU:HA	1:D:1198:LEU:HA	1.82	0.61
1:D:1858:ASP:O	1:D:1862:ALA:HB2	1.99	0.61
1:E:1172:LEU:HA	1:E:1198:LEU:HA	1.82	0.61
1:A:1774:TYR:OH	1:A:1848:TYR:OH	2.01	0.61
1:A:2106:ASN:O	1:A:2107:ILE:CG1	2.47	0.61
1:A:2212:SER:O	1:A:2215:VAL:N	2.33	0.61
1:C:1170:LEU:HB3	1:C:1200:LEU:HD13	1.83	0.61
1:C:2413:LYS:N	1:C:2512:ARG:O	2.26	0.61
1:A:2117:LEU:HD11	1:E:2176:ALA:H	1.62	0.61
1:A:1017:PHE:O	1:A:1025:ASN:ND2	2.33	0.61
1:A:1170:LEU:HB3	1:A:1200:LEU:HD13	1.83	0.61
1:A:1832:LEU:HG	1:A:1833:ASP:N	2.16	0.61
1:A:2124:LEU:HD21	1:E:2169:ALA:HB3	1.67	0.61
1:B:1295:ASP:OD1	1:B:1296:THR:N	2.28	0.61
1:C:2212:SER:O	1:C:2215:VAL:N	2.33	0.61
1:D:1832:LEU:HG	1:D:1833:ASP:N	2.16	0.61
1:C:1026:LYS:NZ	1:D:1878:GLU:OE2	2.33	0.61
1:E:1818:VAL:HG12	1:E:1820:PRO:HD2	1.82	0.61
1:A:1293:GLN:NE2	1:A:1304:ASN:OD1	2.34	0.61
1:B:1172:LEU:HA	1:B:1198:LEU:HA	1.82	0.61
1:C:2201:ALA:HB1	1:D:2091:GLY:HA3	1.83	0.61
1:D:2212:SER:O	1:D:2215:VAL:N	2.34	0.61
1:E:1818:VAL:HB	1:E:1821:LEU:HD12	1.83	0.61
1:B:1293:GLN:NE2	1:B:1304:ASN:OD1	2.34	0.61
1:B:2201:ALA:HB1	1:C:2091:GLY:HA3	1.83	0.61
1:D:1170:LEU:HB3	1:D:1200:LEU:HD13	1.83	0.61
1:E:2106:ASN:O	1:E:2107:ILE:CG1	2.47	0.61
1:B:1818:VAL:HB	1:B:1821:LEU:HD12	1.83	0.61
1:B:2165:MET:HG2	1:C:2127:ALA:HB3	1.83	0.61
1:B:2176:ALA:CB	1:C:2117:LEU:CD1	2.78	0.61
1:A:2460:PHE:CZ	1:B:2330:GLU:HB3	2.35	0.61
1:C:1172:LEU:HA	1:C:1198:LEU:HA	1.82	0.61
1:D:1153:PRO:HB3	1:D:1171:TRP:HB2	1.82	0.61
1:D:2447:ALA:HB3	1:E:2329:LEU:CD2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1170:LEU:HB3	1:E:1200:LEU:HD13	1.83	0.61
1:A:2073:LYS:CE	1:E:2222:LEU:HD11	2.31	0.61
1:A:2189:ARG:HH11	1:A:2189:ARG:CG	2.13	0.61
1:A:2330:GLU:HB3	1:E:2460:PHE:CZ	2.34	0.61
1:D:1787:GLN:HB2	1:D:2011:GLU:OE1	2.01	0.61
1:E:1017:PHE:O	1:E:1025:ASN:ND2	2.33	0.61
1:E:1872:GLU:O	1:E:1875:THR:OG1	2.15	0.61
1:B:1168:TYR:HB3	1:B:1200:LEU:HD11	1.83	0.61
1:C:1832:LEU:HG	1:C:1833:ASP:N	2.16	0.61
1:C:2183:GLU:HG3	1:D:2111:GLU:HG2	1.80	0.61
1:E:2212:SER:O	1:E:2215:VAL:N	2.33	0.61
1:B:1170:LEU:HB3	1:B:1200:LEU:HD13	1.83	0.61
1:C:1097:TYR:HD1	1:C:1303:ASN:HB2	1.66	0.61
1:C:1168:TYR:HB3	1:C:1200:LEU:HD11	1.83	0.61
1:C:1293:GLN:NE2	1:C:1304:ASN:OD1	2.34	0.61
1:B:1044:TYR:CZ	1:C:1992:PRO:CB	2.84	0.61
1:D:2047:GLN:NE2	1:D:2252:ASN:OD1	2.34	0.61
1:A:2169:ALA:CB	1:B:2124:LEU:HD11	2.24	0.60
1:B:1819:ARG:O	1:B:1822:LEU:N	2.34	0.60
1:A:1002:GLU:CG	1:B:1882:TRP:CH2	2.66	0.60
1:D:117:ALA:HA	1:D:1948:PHE:HE2	1.66	0.60
1:D:1293:GLN:NE2	1:D:1304:ASN:OD1	2.34	0.60
1:A:2121:ALA:HA	1:E:2172:MET:CE	2.31	0.60
1:A:1641:PHE:N	1:A:1692:ILE:O	2.28	0.60
1:A:1787:GLN:HB2	1:A:2011:GLU:OE1	2.01	0.60
1:A:1818:VAL:HG12	1:A:1820:PRO:HD2	1.82	0.60
1:B:1660:TRP:CZ2	1:B:1680:GLN:OE1	2.55	0.60
1:B:1832:LEU:HG	1:B:1833:ASP:N	2.16	0.60
1:D:1168:TYR:HB3	1:D:1200:LEU:HD11	1.83	0.60
1:D:1819:ARG:O	1:D:1822:LEU:N	2.34	0.60
1:E:169:LEU:O	1:E:173:ILE:HG12	2.02	0.60
1:A:1622:ASP:O	1:E:1272:ASP:CG	2.38	0.60
1:B:2212:SER:O	1:B:2215:VAL:N	2.34	0.60
1:B:974:ASP:OD2	1:C:1880:LYS:NZ	2.22	0.60
1:B:115:PRO:HG2	1:C:1986:TYR:CD1	2.36	0.60
1:B:2222:LEU:HD11	1:C:2073:LYS:CE	2.30	0.60
1:C:2397:LYS:O	1:C:2400:GLU:HG2	2.02	0.60
1:E:1832:LEU:HG	1:E:1833:ASP:N	2.16	0.60
1:E:2047:GLN:NE2	1:E:2252:ASN:OD1	2.34	0.60
1:A:2173:ASN:CA	1:B:2117:LEU:HD21	2.31	0.60
1:E:1097:TYR:HD1	1:E:1303:ASN:HB2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1996:LEU:HD12	1:E:1837:PRO:HG3	1.82	0.60
1:A:2111:GLU:HG2	1:E:2183:GLU:HG3	1.82	0.60
1:A:1097:TYR:HD1	1:A:1303:ASN:HB2	1.66	0.60
1:A:1605:LEU:HA	1:A:1763:ALA:HB3	1.84	0.60
1:B:1605:LEU:HA	1:B:1763:ALA:HB3	1.84	0.60
1:B:1641:PHE:N	1:B:1692:ILE:O	2.28	0.60
1:C:117:ALA:HA	1:C:1948:PHE:HE2	1.66	0.60
1:C:1660:TRP:CZ2	1:C:1680:GLN:OE1	2.55	0.60
1:D:169:LEU:O	1:D:173:ILE:HG12	2.02	0.60
1:D:2179:ILE:HG22	1:E:2114:ALA:CB	2.23	0.60
1:D:2183:GLU:HG3	1:E:2111:GLU:HG2	1.79	0.60
1:E:1286:TYR:O	1:E:1290:SER:OG	2.15	0.60
1:A:2305:LEU:HD21	1:E:2258:LEU:CB	2.21	0.60
1:A:2397:LYS:O	1:A:2400:GLU:HG2	2.02	0.60
1:B:169:LEU:O	1:B:173:ILE:HG12	2.02	0.60
1:E:117:ALA:HA	1:E:1948:PHE:HE2	1.66	0.60
1:E:2330:GLU:HG3	1:E:2514:THR:HG22	1.84	0.60
1:A:1295:ASP:HB2	1:A:1301:ARG:HG3	1.84	0.60
1:A:2216:ARG:HA	1:B:2077:GLU:OE1	2.02	0.60
1:C:1017:PHE:O	1:C:1025:ASN:ND2	2.33	0.60
1:C:2179:ILE:HG22	1:D:2114:ALA:CB	2.24	0.60
1:C:2165:MET:HG2	1:D:2127:ALA:HB3	1.83	0.60
1:E:1295:ASP:HB2	1:E:1301:ARG:HG3	1.84	0.60
1:D:1837:PRO:HG3	1:E:1996:LEU:HD12	1.84	0.60
1:D:2172:MET:HE1	1:E:2121:ALA:N	2.15	0.60
1:D:2165:MET:HG2	1:E:2127:ALA:HB3	1.82	0.60
1:A:169:LEU:O	1:A:173:ILE:HG12	2.02	0.60
1:A:1818:VAL:HB	1:A:1821:LEU:HD12	1.83	0.60
1:B:1818:VAL:HG12	1:B:1820:PRO:HD2	1.82	0.60
1:B:1044:TYR:CZ	1:C:1992:PRO:HB2	2.36	0.60
1:D:1295:ASP:HB2	1:D:1301:ARG:HG3	1.84	0.60
1:E:1153:PRO:HB3	1:E:1171:TRP:HB2	1.83	0.60
1:E:1787:GLN:HB2	1:E:2011:GLU:OE1	2.01	0.60
1:A:2084:VAL:CG2	1:E:2208:ALA:HB1	2.32	0.60
1:A:1660:TRP:CZ2	1:A:1680:GLN:OE1	2.55	0.60
1:A:2172:MET:CE	1:B:2121:ALA:HA	2.29	0.60
1:C:1819:ARG:O	1:C:1822:LEU:N	2.34	0.60
1:D:1641:PHE:N	1:D:1692:ILE:O	2.28	0.60
1:E:1204:ARG:NH2	1:E:1210:ASN:HD21	2.00	0.60
1:E:2012:SER:OG	1:E:2443:ASN:OD1	2.15	0.60
1:A:2413:LYS:N	1:A:2512:ARG:O	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1153:PRO:HB3	1:C:1171:TRP:HB2	1.83	0.59
1:B:2172:MET:HE1	1:C:2121:ALA:HA	1.83	0.59
1:D:1097:TYR:HD1	1:D:1303:ASN:HB2	1.66	0.59
1:D:1272:ASP:CG	1:E:1622:ASP:O	2.40	0.59
1:E:1168:TYR:HB3	1:E:1200:LEU:HD11	1.83	0.59
1:A:1660:TRP:CG	1:A:1680:GLN:HA	2.37	0.59
1:A:1819:ARG:O	1:A:1822:LEU:N	2.34	0.59
1:B:1097:TYR:HD1	1:B:1303:ASN:HB2	1.66	0.59
1:B:1295:ASP:HB2	1:B:1301:ARG:HG3	1.84	0.59
1:B:1660:TRP:CG	1:B:1680:GLN:HA	2.37	0.59
1:B:2413:LYS:N	1:B:2512:ARG:O	2.26	0.59
1:C:1787:GLN:HB2	1:C:2011:GLU:OE1	2.01	0.59
1:D:1660:TRP:CZ2	1:D:1680:GLN:OE1	2.55	0.59
1:E:1660:TRP:CG	1:E:1680:GLN:HA	2.38	0.59
1:A:2091:GLY:HA3	1:E:2201:ALA:HB1	1.84	0.59
1:B:117:ALA:HA	1:B:1948:PHE:HE2	1.66	0.59
1:B:1302:VAL:HG12	1:B:1583:ALA:HB1	1.84	0.59
1:C:169:LEU:O	1:C:173:ILE:HG12	2.02	0.59
1:C:1818:VAL:HB	1:C:1821:LEU:HD12	1.83	0.59
1:D:2330:GLU:HG3	1:D:2514:THR:HG22	1.84	0.59
1:D:2460:PHE:CZ	1:E:2330:GLU:HB3	2.37	0.59
1:A:117:ALA:HA	1:A:1948:PHE:HE2	1.66	0.59
1:A:1168:TYR:HB3	1:A:1200:LEU:HD11	1.83	0.59
1:A:2284:LEU:HD21	1:A:2324:ARG:HB2	1.85	0.59
1:C:1204:ARG:NH2	1:C:1210:ASN:HD21	2.00	0.59
1:B:1272:ASP:CG	1:C:1622:ASP:O	2.40	0.59
1:E:1293:GLN:NE2	1:E:1304:ASN:OD1	2.34	0.59
1:A:2121:ALA:HB2	1:E:2172:MET:HE2	1.83	0.59
1:A:1026:LYS:NZ	1:B:1878:GLU:OE2	2.35	0.59
1:A:2501:LEU:HD23	1:A:2504:LEU:HD21	1.85	0.59
1:B:1787:GLN:HB2	1:B:2011:GLU:OE1	2.01	0.59
1:B:2029:MET:HE3	1:B:2272:ARG:HD2	1.84	0.59
1:B:2047:GLN:NE2	1:B:2252:ASN:OD1	2.34	0.59
1:C:2047:GLN:NE2	1:C:2252:ASN:OD1	2.34	0.59
1:C:2187:ARG:CZ	1:D:2108:ASN:HD21	2.15	0.59
1:D:2397:LYS:O	1:D:2400:GLU:HG2	2.02	0.59
1:E:1680:GLN:HG2	1:E:1681:LEU:O	2.03	0.59
1:A:1272:ASP:CG	1:B:1622:ASP:O	2.40	0.59
1:A:2208:ALA:HB1	1:B:2084:VAL:CG2	2.33	0.59
1:B:1204:ARG:NH2	1:B:1210:ASN:HD21	2.00	0.59
1:B:2397:LYS:O	1:B:2400:GLU:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2501:LEU:HD23	1:B:2504:LEU:HD21	1.85	0.59
1:C:1295:ASP:HB2	1:C:1301:ARG:HG3	1.84	0.59
1:C:1680:GLN:HG2	1:C:1681:LEU:O	2.03	0.59
1:A:1878:GLU:OE2	1:E:1026:LYS:NZ	2.35	0.59
1:B:2154:TRP:O	1:B:2158:ALA:CB	2.51	0.59
1:C:2154:TRP:O	1:C:2158:ALA:CB	2.51	0.59
1:D:1204:ARG:NH2	1:D:1210:ASN:HD21	2.00	0.59
1:D:1680:GLN:HG2	1:D:1681:LEU:O	2.03	0.59
1:E:1261:ASN:H	1:E:1287:ARG:NH1	2.01	0.59
1:E:1660:TRP:CZ2	1:E:1680:GLN:OE1	2.55	0.59
1:A:1680:GLN:HG2	1:A:1681:LEU:O	2.03	0.59
1:A:2047:GLN:NE2	1:A:2252:ASN:OD1	2.34	0.59
1:B:1153:PRO:HB3	1:B:1171:TRP:HB2	1.82	0.59
1:B:2330:GLU:HG3	1:B:2514:THR:HG22	1.84	0.59
1:B:2430:GLN:H	1:B:2497:GLN:HE22	1.50	0.59
1:D:1261:ASN:H	1:D:1287:ARG:NH1	2.01	0.59
1:D:2154:TRP:O	1:D:2158:ALA:CB	2.51	0.59
1:E:2154:TRP:O	1:E:2158:ALA:CB	2.51	0.59
1:A:2187:ARG:CZ	1:B:2108:ASN:HD21	2.16	0.59
1:C:1660:TRP:CG	1:C:1680:GLN:HA	2.38	0.59
1:B:2447:ALA:HB3	1:C:2329:LEU:CD2	2.32	0.59
1:C:2330:GLU:HG3	1:C:2514:THR:HG22	1.84	0.59
1:C:2501:LEU:HD23	1:C:2504:LEU:HD21	1.85	0.59
1:D:1218:ASN:O	1:D:1222:SER:CB	2.51	0.59
1:B:1680:GLN:HG2	1:B:1681:LEU:O	2.03	0.59
1:B:2208:ALA:HB1	1:C:2084:VAL:CG2	2.31	0.59
1:A:2461:GLN:HE21	1:B:2465:ASN:ND2	2.01	0.59
1:C:2284:LEU:HD21	1:C:2324:ARG:HB2	1.85	0.59
1:C:2460:PHE:CZ	1:D:2330:GLU:HB3	2.38	0.59
1:E:1819:ARG:O	1:E:1822:LEU:N	2.34	0.59
1:A:2154:TRP:O	1:A:2158:ALA:CB	2.51	0.58
1:B:1093:VAL:HG12	1:B:1586:LEU:HD21	1.86	0.58
1:C:1605:LEU:HA	1:C:1763:ALA:HB3	1.84	0.58
1:D:1605:LEU:HA	1:D:1763:ALA:HB3	1.84	0.58
1:D:1633:GLN:HB3	1:D:1755:SER:HB2	1.85	0.58
1:D:2430:GLN:H	1:D:2497:GLN:HE22	1.50	0.58
1:E:1633:GLN:HB3	1:E:1755:SER:HB2	1.85	0.58
1:D:2179:ILE:HB	1:E:2114:ALA:HB2	1.85	0.58
1:A:2124:LEU:HD11	1:E:2169:ALA:CB	2.26	0.58
1:A:2330:GLU:HG3	1:A:2514:THR:HG22	1.84	0.58
1:B:1872:GLU:O	1:B:1875:THR:OG1	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1633:GLN:HB3	1:C:1755:SER:HB2	1.85	0.58
1:C:2013:PHE:HZ	1:D:2323:LYS:CG	2.13	0.58
1:C:2194:ILE:HG21	1:D:2099:TYR:HH	1.65	0.58
1:E:1302:VAL:HG12	1:E:1583:ALA:HB1	1.84	0.58
1:A:2114:ALA:CB	1:E:2179:ILE:CG2	2.71	0.58
1:A:2329:LEU:CD2	1:E:2447:ALA:HB3	2.33	0.58
1:E:2430:GLN:H	1:E:2497:GLN:HE22	1.50	0.58
1:A:2222:LEU:HD12	1:B:2073:LYS:CD	2.29	0.58
1:D:1660:TRP:CG	1:D:1680:GLN:HA	2.38	0.58
1:D:2012:SER:OG	1:D:2443:ASN:OD1	2.15	0.58
1:E:1865:ASP:O	1:E:1868:TYR:N	2.37	0.58
1:D:2194:ILE:CG2	1:E:2099:TYR:OH	2.46	0.58
1:A:2108:ASN:HD21	1:E:2187:ARG:CZ	2.16	0.58
1:E:2189:ARG:HH11	1:E:2189:ARG:CG	2.13	0.58
1:A:1093:VAL:HG12	1:A:1586:LEU:HD21	1.86	0.58
1:A:1204:ARG:NH2	1:A:1210:ASN:HD21	2.00	0.58
1:B:1633:GLN:HB3	1:B:1755:SER:HB2	1.85	0.58
1:C:1050:ARG:HB2	1:C:1838:ASP:OD2	2.04	0.58
1:C:2172:MET:HE1	1:D:2121:ALA:HA	1.84	0.58
1:D:142:ARG:NH1	1:D:992:SER:OG	2.37	0.58
1:E:2397:LYS:O	1:E:2400:GLU:HG2	2.02	0.58
1:A:1291:TYR:O	1:A:1292:GLN:HG2	2.04	0.58
1:A:1633:GLN:HB3	1:A:1755:SER:HB2	1.85	0.58
1:A:2430:GLN:H	1:A:2497:GLN:HE22	1.50	0.58
1:A:142:ARG:NH1	1:A:992:SER:OG	2.37	0.58
1:B:186:MET:O	1:B:190:SER:CB	2.52	0.58
1:C:1286:TYR:O	1:C:1290:SER:OG	2.15	0.58
1:C:1291:TYR:O	1:C:1292:GLN:HG2	2.04	0.58
1:C:137:TYR:HE2	1:C:139:ASP:HB2	1.69	0.58
1:D:1302:VAL:HG12	1:D:1583:ALA:HB1	1.84	0.58
1:D:1818:VAL:HB	1:D:1821:LEU:HD12	1.83	0.58
1:D:1050:ARG:HB2	1:D:1838:ASP:OD2	2.04	0.58
1:D:2501:LEU:HD23	1:D:2504:LEU:HD21	1.85	0.58
1:E:1093:VAL:HG12	1:E:1586:LEU:HD21	1.86	0.58
1:E:142:ARG:NH1	1:E:992:SER:OG	2.37	0.58
1:B:137:TYR:HE2	1:B:139:ASP:HB2	1.69	0.58
1:B:1832:LEU:HG	1:B:1833:ASP:H	1.68	0.58
1:B:93:ASN:OD1	1:B:1894:PRO:HD3	2.04	0.58
1:C:183:THR:O	1:C:187:GLU:CB	2.52	0.58
1:D:2208:ALA:HB1	1:E:2084:VAL:CG2	2.32	0.58
1:A:1218:ASN:O	1:A:1222:SER:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1218:ASN:O	1:B:1222:SER:CB	2.51	0.58
1:B:183:THR:O	1:B:187:GLU:CB	2.52	0.58
1:B:142:ARG:NH1	1:B:992:SER:OG	2.36	0.58
1:C:1832:LEU:HG	1:C:1833:ASP:H	1.68	0.58
1:C:2430:GLN:H	1:C:2497:GLN:HE22	1.50	0.58
1:E:1291:TYR:O	1:E:1292:GLN:HG2	2.04	0.58
1:E:2501:LEU:HD23	1:E:2504:LEU:HD21	1.85	0.58
1:A:183:THR:O	1:A:187:GLU:CB	2.52	0.58
1:A:2121:ALA:HB2	1:E:2172:MET:CE	2.34	0.58
1:B:2284:LEU:HD21	1:B:2324:ARG:HB2	1.85	0.58
1:C:1261:ASN:H	1:C:1287:ARG:NH1	2.01	0.58
1:D:1832:LEU:HG	1:D:1833:ASP:H	1.68	0.58
1:C:2222:LEU:CD1	1:D:2073:LYS:HD2	2.30	0.58
1:D:994:GLN:O	1:D:998:ASN:ND2	2.37	0.58
1:E:1260:LYS:HA	1:E:1287:ARG:HH22	1.69	0.58
1:A:186:MET:O	1:A:190:SER:CB	2.52	0.58
1:A:1961:GLN:O	1:A:1965:GLN:HG2	2.04	0.58
1:C:1664:TYR:HB3	1:C:1673:SER:O	2.04	0.58
1:C:2253:TRP:CD1	1:D:2301:TYR:CE2	2.92	0.58
1:C:142:ARG:NH1	1:C:992:SER:OG	2.37	0.58
1:D:183:THR:O	1:D:187:GLU:CB	2.52	0.58
1:E:1605:LEU:HA	1:E:1763:ALA:HB3	1.84	0.58
1:E:1664:TYR:HB3	1:E:1673:SER:O	2.04	0.58
1:E:1050:ARG:HB2	1:E:1838:ASP:OD2	2.04	0.58
1:E:183:THR:O	1:E:187:GLU:CB	2.52	0.58
1:E:1951:GLN:HG3	1:E:1952:ILE:H	1.69	0.58
1:E:2284:LEU:HD21	1:E:2324:ARG:HB2	1.84	0.58
1:E:2360:LEU:HD22	1:E:2375:LEU:HD23	1.86	0.58
1:A:1302:VAL:HG12	1:A:1583:ALA:HB1	1.84	0.58
1:A:93:ASN:OD1	1:A:1894:PRO:HD3	2.04	0.58
1:A:2012:SER:OG	1:A:2443:ASN:OD1	2.15	0.58
1:B:1026:LYS:NZ	1:C:1878:GLU:OE2	2.37	0.58
1:B:2179:ILE:HG22	1:C:2114:ALA:CB	2.24	0.58
1:D:2216:ARG:HA	1:E:2077:GLU:OE1	2.03	0.58
1:D:2360:LEU:HD22	1:D:2375:LEU:HD23	1.86	0.58
1:E:1218:ASN:O	1:E:1222:SER:CB	2.51	0.58
1:D:2173:ASN:CA	1:E:2117:LEU:HD21	2.34	0.58
1:E:93:ASN:OD1	1:E:1894:PRO:HD3	2.04	0.58
1:A:1865:ASP:O	1:A:1868:TYR:N	2.37	0.57
1:A:2124:LEU:HD22	1:E:2169:ALA:HB3	1.63	0.57
1:B:1291:TYR:O	1:B:1292:GLN:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1069:LEU:HD22	1:B:1782:ARG:HD2	1.86	0.57
1:B:1865:ASP:O	1:B:1868:TYR:N	2.37	0.57
1:B:1961:GLN:O	1:B:1965:GLN:HG2	2.04	0.57
1:C:1093:VAL:HG12	1:C:1586:LEU:HD21	1.85	0.57
1:C:2360:LEU:HD22	1:C:2375:LEU:HD23	1.86	0.57
1:D:2172:MET:HE3	1:E:2121:ALA:CA	2.28	0.57
1:E:1832:LEU:HG	1:E:1833:ASP:H	1.68	0.57
1:E:1961:GLN:O	1:E:1965:GLN:HG2	2.04	0.57
1:A:137:TYR:HE2	1:A:139:ASP:HB2	1.69	0.57
1:A:1597:GLN:OE1	1:A:1602:ARG:NH2	2.37	0.57
1:A:1951:GLN:HG3	1:A:1952:ILE:H	1.69	0.57
1:A:2183:GLU:CD	1:B:2111:GLU:CG	2.73	0.57
1:C:1069:LEU:HD22	1:C:1782:ARG:HD2	1.86	0.57
1:C:2222:LEU:HD12	1:D:2073:LYS:CD	2.29	0.57
1:D:1260:LYS:HA	1:D:1287:ARG:HH22	1.69	0.57
1:D:1093:VAL:HG12	1:D:1586:LEU:HD21	1.86	0.57
1:D:1951:GLN:HG3	1:D:1952:ILE:H	1.69	0.57
1:D:1961:GLN:O	1:D:1965:GLN:HG2	2.04	0.57
1:A:2098:SER:HG	1:E:2194:ILE:CD1	2.12	0.57
1:A:2172:MET:HE1	1:B:2121:ALA:HA	1.85	0.57
1:B:1664:TYR:HB3	1:B:1673:SER:O	2.04	0.57
1:B:1050:ARG:HB2	1:B:1838:ASP:OD2	2.04	0.57
1:A:2447:ALA:HB3	1:B:2329:LEU:CD2	2.33	0.57
1:C:1773:TYR:O	1:C:1776:PRO:HD2	2.05	0.57
1:C:93:ASN:OD1	1:C:1894:PRO:HD3	2.04	0.57
1:D:137:TYR:HE2	1:D:139:ASP:HB2	1.69	0.57
1:C:2216:ARG:HA	1:D:2077:GLU:OE1	2.04	0.57
1:D:2284:LEU:HD21	1:D:2324:ARG:HB2	1.85	0.57
1:E:137:TYR:HE2	1:E:139:ASP:HB2	1.69	0.57
1:E:162:LEU:O	1:E:166:ASN:ND2	2.38	0.57
1:D:2176:ALA:CB	1:E:2117:LEU:CD1	2.77	0.57
1:D:2172:MET:HE1	1:E:2121:ALA:HA	1.84	0.57
1:A:1664:TYR:HB3	1:A:1673:SER:O	2.04	0.57
1:A:1050:ARG:HB2	1:A:1838:ASP:OD2	2.04	0.57
1:C:1302:VAL:HG12	1:C:1583:ALA:HB1	1.84	0.57
1:C:1961:GLN:O	1:C:1965:GLN:HG2	2.04	0.57
1:D:186:MET:O	1:D:190:SER:CB	2.52	0.57
1:D:2245:PHE:HD2	1:E:2044:ILE:HG21	1.70	0.57
1:D:2253:TRP:CD1	1:E:2301:TYR:CE2	2.92	0.57
1:A:1130:LYS:HB2	1:A:1140:ALA:HB2	1.87	0.57
1:A:162:LEU:O	1:A:166:ASN:ND2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:969:GLN:HB3	1:A:999:ARG:NH1	2.19	0.57
1:B:1260:LYS:HA	1:B:1287:ARG:HH22	1.69	0.57
1:B:1597:GLN:OE1	1:B:1602:ARG:NH2	2.37	0.57
1:B:162:LEU:O	1:B:166:ASN:ND2	2.38	0.57
1:B:1837:PRO:HG3	1:C:1996:LEU:HD12	1.85	0.57
1:A:1837:PRO:HG3	1:B:1996:LEU:HD12	1.84	0.57
1:A:2245:PHE:HD2	1:B:2044:ILE:HG21	1.70	0.57
1:C:186:MET:O	1:C:190:SER:CB	2.52	0.57
1:B:1261:ASN:H	1:B:1287:ARG:NH1	2.01	0.57
1:C:1218:ASN:O	1:C:1222:SER:CB	2.51	0.57
1:C:1865:ASP:O	1:C:1868:TYR:N	2.37	0.57
1:B:2179:ILE:HB	1:C:2114:ALA:HB2	1.85	0.57
1:D:1841:ALA:O	1:D:1842:GLN:CB	2.53	0.57
1:C:1002:GLU:CG	1:D:1882:TRP:CH2	2.68	0.57
1:D:2172:MET:HE1	1:E:2121:ALA:CA	2.34	0.57
1:D:2172:MET:CE	1:E:2121:ALA:HB2	2.34	0.57
1:B:2187:ARG:CZ	1:C:2108:ASN:HD21	2.18	0.57
1:D:1291:TYR:O	1:D:1292:GLN:HG2	2.04	0.57
1:D:1069:LEU:HD22	1:D:1782:ARG:HD2	1.86	0.57
1:D:2013:PHE:HZ	1:E:2323:LYS:CG	2.14	0.57
1:C:2172:MET:CE	1:D:2121:ALA:HB2	2.34	0.57
1:E:969:GLN:HB3	1:E:999:ARG:NH1	2.19	0.57
1:B:1130:LYS:HB2	1:B:1140:ALA:HB2	1.87	0.57
1:C:1260:LYS:HA	1:C:1287:ARG:HH22	1.69	0.57
1:B:2194:ILE:CG2	1:C:2099:TYR:OH	2.47	0.57
1:C:2189:ARG:CG	1:C:2189:ARG:HH11	2.13	0.57
1:D:1286:TYR:O	1:D:1290:SER:OG	2.15	0.57
1:D:1664:TYR:HB3	1:D:1673:SER:O	2.04	0.57
1:D:1773:TYR:O	1:D:1776:PRO:HD2	2.05	0.57
1:D:2189:ARG:CG	1:D:2189:ARG:HH11	2.13	0.57
1:D:969:GLN:HB3	1:D:999:ARG:NH1	2.19	0.57
1:A:1599:GLN:HB3	1:A:1601:TYR:CD2	2.40	0.57
1:C:1597:GLN:OE1	1:C:1602:ARG:NH2	2.37	0.57
1:C:1837:PRO:HG3	1:D:1996:LEU:HD12	1.86	0.57
1:C:1951:GLN:HG3	1:C:1952:ILE:H	1.69	0.57
1:C:930:GLN:HA	1:C:933:THR:HG22	1.87	0.57
1:D:93:ASN:OD1	1:D:1894:PRO:HD3	2.04	0.57
1:C:2461:GLN:HE21	1:D:2465:ASN:ND2	2.02	0.57
1:E:1130:LYS:HB2	1:E:1140:ALA:HB2	1.87	0.57
1:E:186:MET:O	1:E:190:SER:CB	2.52	0.57
1:A:2360:LEU:HD22	1:A:2375:LEU:HD23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1599:GLN:HB3	1:B:1601:TYR:CD2	2.40	0.57
1:B:1951:GLN:HG3	1:B:1952:ILE:H	1.69	0.57
1:A:2179:ILE:HB	1:B:2114:ALA:HB2	1.85	0.57
1:A:2173:ASN:HA	1:B:2117:LEU:CD2	2.35	0.57
1:B:930:GLN:HA	1:B:933:THR:HG22	1.87	0.57
1:D:1865:ASP:O	1:D:1868:TYR:N	2.37	0.57
1:E:137:TYR:CE2	1:E:139:ASP:HB2	2.40	0.57
1:E:1597:GLN:OE1	1:E:1602:ARG:NH2	2.37	0.57
1:D:2187:ARG:CZ	1:E:2108:ASN:HD21	2.17	0.57
1:D:2461:GLN:HE21	1:E:2465:ASN:ND2	2.02	0.57
1:E:994:GLN:O	1:E:998:ASN:ND2	2.37	0.57
1:A:1069:LEU:HD22	1:A:1782:ARG:HD2	1.87	0.56
1:A:1260:LYS:HA	1:A:1287:ARG:HH22	1.69	0.56
1:A:137:TYR:CE2	1:A:139:ASP:HB2	2.40	0.56
1:A:1773:TYR:O	1:A:1776:PRO:HD2	2.05	0.56
1:A:1832:LEU:HG	1:A:1833:ASP:H	1.68	0.56
1:A:1841:ALA:O	1:A:1842:GLN:CB	2.53	0.56
1:A:2117:LEU:HD21	1:E:2173:ASN:CA	2.34	0.56
1:B:1773:TYR:O	1:B:1776:PRO:HD2	2.05	0.56
1:B:2016:LEU:CD1	1:C:2327:ARG:HB2	2.35	0.56
1:B:2172:MET:CE	1:C:2121:ALA:HB2	2.33	0.56
1:C:137:TYR:CE2	1:C:139:ASP:HB2	2.40	0.56
1:D:1597:GLN:OE1	1:D:1602:ARG:NH2	2.37	0.56
1:D:1898:LEU:HD11	1:D:1952:ILE:HD12	1.88	0.56
1:C:2258:LEU:CB	1:D:2305:LEU:HD21	2.19	0.56
1:A:2121:ALA:CA	1:E:2172:MET:HE1	2.35	0.56
1:A:2127:ALA:HB3	1:E:2165:MET:HG2	1.86	0.56
1:A:2253:TRP:CD1	1:B:2301:TYR:CE2	2.93	0.56
1:B:1736:ASN:HB3	1:B:1738:LYS:NZ	2.20	0.56
1:A:2222:LEU:CD1	1:B:2073:LYS:HD2	2.29	0.56
1:C:969:GLN:HB3	1:C:999:ARG:NH1	2.19	0.56
1:D:1002:GLU:CG	1:E:1882:TRP:CH2	2.66	0.56
1:D:1676:ILE:HG13	1:D:1677:TYR:H	1.70	0.56
1:A:1261:ASN:H	1:A:1287:ARG:NH1	2.01	0.56
1:A:2044:ILE:HG21	1:E:2245:PHE:HD2	1.71	0.56
1:C:1130:LYS:HB2	1:C:1140:ALA:HB2	1.87	0.56
1:E:1898:LEU:HD11	1:E:1952:ILE:HD12	1.87	0.56
1:B:2360:LEU:HD22	1:B:2375:LEU:HD23	1.86	0.56
1:C:162:LEU:O	1:C:166:ASN:ND2	2.38	0.56
1:C:994:GLN:O	1:C:998:ASN:ND2	2.37	0.56
1:D:162:LEU:O	1:D:166:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2172:MET:HE1	1:D:2121:ALA:N	2.19	0.56
1:D:930:GLN:HA	1:D:933:THR:HG22	1.87	0.56
1:E:1736:ASN:HB3	1:E:1738:LYS:NZ	2.20	0.56
1:A:2117:LEU:CD1	1:E:2176:ALA:CB	2.76	0.56
1:A:1676:ILE:HG13	1:A:1677:TYR:H	1.70	0.56
1:A:2118:ARG:NH2	1:A:2177:ASP:OD2	2.39	0.56
1:C:1872:GLU:O	1:C:1875:THR:OG1	2.15	0.56
1:C:2419:LEU:HD12	1:C:2429:VAL:HG11	1.88	0.56
1:C:2208:ALA:HB1	1:D:2084:VAL:CG2	2.33	0.56
1:C:2169:ALA:CA	1:D:2124:LEU:HD11	2.05	0.56
1:E:1069:LEU:HD22	1:E:1782:ARG:HD2	1.86	0.56
1:E:1599:GLN:HB3	1:E:1601:TYR:CD2	2.40	0.56
1:A:2465:ASN:ND2	1:E:2461:GLN:HE21	2.03	0.56
1:B:2429:VAL:O	1:B:2451:SER:HA	2.06	0.56
1:B:969:GLN:HB3	1:B:999:ARG:NH1	2.19	0.56
1:C:1898:LEU:HD11	1:C:1952:ILE:HD12	1.88	0.56
1:C:2179:ILE:HB	1:D:2114:ALA:HB2	1.87	0.56
1:A:1878:GLU:CD	1:E:1026:LYS:HZ3	2.07	0.56
1:A:2099:TYR:HH	1:E:2194:ILE:HG21	1.70	0.56
1:B:1676:ILE:HG13	1:B:1677:TYR:H	1.70	0.56
1:B:2118:ARG:NH2	1:B:2177:ASP:OD2	2.39	0.56
1:B:141:ARG:HD3	1:B:970:TYR:O	2.06	0.56
1:D:1130:LYS:HB2	1:D:1140:ALA:HB2	1.87	0.56
1:D:2419:LEU:HD12	1:D:2429:VAL:HG11	1.88	0.56
1:E:1773:TYR:O	1:E:1776:PRO:HD2	2.05	0.56
1:E:2419:LEU:HD12	1:E:2429:VAL:HG11	1.88	0.56
1:A:2281:ARG:NH1	1:A:2290:ARG:HH21	2.04	0.56
1:B:1841:ALA:O	1:B:1842:GLN:CB	2.53	0.56
1:C:1599:GLN:HB3	1:C:1601:TYR:CD2	2.40	0.56
1:C:2429:VAL:O	1:C:2451:SER:HA	2.06	0.56
1:D:2281:ARG:NH1	1:D:2290:ARG:HH21	2.04	0.56
1:E:2124:LEU:O	1:E:2128:VAL:HG23	2.06	0.56
1:C:1736:ASN:HB3	1:C:1738:LYS:NZ	2.20	0.56
1:D:137:TYR:CE2	1:D:139:ASP:HB2	2.40	0.56
1:C:2172:MET:HE1	1:D:2121:ALA:CA	2.36	0.56
1:E:2281:ARG:NH1	1:E:2290:ARG:HH21	2.04	0.56
1:A:2429:VAL:O	1:A:2451:SER:HA	2.06	0.56
1:B:1760:PHE:HD2	1:B:1820:PRO:HG3	1.71	0.56
1:B:2173:ASN:CA	1:C:2117:LEU:HD21	2.34	0.56
1:C:141:ARG:HD3	1:C:970:TYR:O	2.06	0.56
1:D:1599:GLN:HB3	1:D:1601:TYR:CD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1736:ASN:HB3	1:D:1738:LYS:NZ	2.20	0.56
1:C:1244:THR:CG2	1:D:1808:HIS:HA	2.33	0.56
1:C:2194:ILE:CG2	1:D:2099:TYR:OH	2.48	0.56
1:E:1680:GLN:N	1:E:1680:GLN:OE1	2.39	0.56
1:A:2121:ALA:HA	1:E:2172:MET:HE1	1.88	0.56
1:A:2124:LEU:O	1:A:2128:VAL:HG23	2.06	0.56
1:B:1163:TYR:HB3	1:B:1168:TYR:CD1	2.41	0.56
1:C:1680:GLN:OE1	1:C:1680:GLN:N	2.39	0.56
1:C:1806:ILE:HG13	1:C:1809:GLY:O	2.06	0.56
1:D:1680:GLN:N	1:D:1680:GLN:OE1	2.39	0.56
1:A:1736:ASN:HB3	1:A:1738:LYS:NZ	2.20	0.55
1:A:1898:LEU:HD11	1:A:1952:ILE:HD12	1.88	0.55
1:B:1233:GLY:O	1:B:1249:PHE:HA	2.06	0.55
1:A:2194:ILE:HG21	1:B:2099:TYR:CE1	2.41	0.55
1:B:2124:LEU:O	1:B:2128:VAL:HG23	2.06	0.55
1:C:1739:SER:OG	1:C:1740:ILE:N	2.39	0.55
1:C:2173:ASN:CA	1:D:2117:LEU:HD21	2.34	0.55
1:E:1233:GLY:O	1:E:1249:PHE:HA	2.07	0.55
1:E:1760:PHE:HD2	1:E:1820:PRO:HG3	1.71	0.55
1:A:2301:TYR:CE2	1:E:2253:TRP:CD1	2.94	0.55
1:B:137:TYR:CE2	1:B:139:ASP:HB2	2.40	0.55
1:B:1680:GLN:N	1:B:1680:GLN:OE1	2.39	0.55
1:B:2430:GLN:HB2	1:B:2497:GLN:NE2	2.22	0.55
1:C:2281:ARG:NH1	1:C:2290:ARG:HH21	2.04	0.55
1:B:2468:LYS:HD3	1:C:2327:ARG:NH1	2.21	0.55
1:D:152:GLN:HE21	1:D:156:ASP:CG	2.10	0.55
1:D:2118:ARG:NH2	1:D:2177:ASP:OD2	2.39	0.55
1:D:2239:ALA:HB1	1:D:2243:ARG:NH1	2.20	0.55
1:D:2429:VAL:O	1:D:2451:SER:HA	2.06	0.55
1:E:1093:VAL:HG21	1:E:1605:LEU:HD13	1.89	0.55
1:E:152:GLN:HE21	1:E:156:ASP:CG	2.10	0.55
1:A:2327:ARG:HB2	1:E:2016:LEU:CD1	2.36	0.55
1:A:2077:GLU:OE1	1:E:2216:ARG:HA	2.06	0.55
1:A:2430:GLN:HB2	1:A:2497:GLN:NE2	2.22	0.55
1:B:1806:ILE:HG13	1:B:1809:GLY:O	2.06	0.55
1:C:1163:TYR:HB3	1:C:1168:TYR:CD1	2.41	0.55
1:B:2461:GLN:HE21	1:C:2465:ASN:ND2	2.03	0.55
1:D:1026:LYS:HZ3	1:E:1878:GLU:CD	2.09	0.55
1:D:1163:TYR:HB3	1:D:1168:TYR:CD1	2.41	0.55
1:D:1806:ILE:HG13	1:D:1809:GLY:O	2.06	0.55
1:D:2124:LEU:O	1:D:2128:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1163:TYR:HB3	1:E:1168:TYR:CD1	2.41	0.55
1:E:1676:ILE:HG13	1:E:1677:TYR:H	1.70	0.55
1:E:1806:ILE:HG13	1:E:1809:GLY:O	2.06	0.55
1:E:1760:PHE:CD2	1:E:1820:PRO:HG3	2.42	0.55
1:E:2430:GLN:HB2	1:E:2497:GLN:NE2	2.22	0.55
1:A:1163:TYR:HB3	1:A:1168:TYR:CD1	2.41	0.55
1:C:1233:GLY:O	1:C:1249:PHE:HA	2.07	0.55
1:C:1676:ILE:HG13	1:C:1677:TYR:H	1.70	0.55
1:C:1760:PHE:HD2	1:C:1820:PRO:CG	2.20	0.55
1:D:1112:GLY:N	1:D:1122:TYR:O	2.32	0.55
1:D:1233:GLY:O	1:D:1249:PHE:HA	2.07	0.55
1:D:1872:GLU:O	1:D:1875:THR:OG1	2.15	0.55
1:D:2374:ASN:OD1	1:D:2374:ASN:N	2.40	0.55
1:D:141:ARG:HD3	1:D:970:TYR:O	2.06	0.55
1:E:930:GLN:HA	1:E:933:THR:HG22	1.87	0.55
1:A:141:ARG:HD3	1:A:970:TYR:O	2.06	0.55
1:A:1739:SER:OG	1:A:1740:ILE:N	2.39	0.55
1:B:1898:LEU:HD11	1:B:1952:ILE:HD12	1.88	0.55
1:A:2183:GLU:OE2	1:B:2111:GLU:CG	2.54	0.55
1:C:2124:LEU:O	1:C:2128:VAL:HG23	2.06	0.55
1:C:2382:ASP:O	1:C:2383:THR:OG1	2.18	0.55
1:D:1739:SER:OG	1:D:1740:ILE:N	2.39	0.55
1:A:2114:ALA:HB2	1:E:2179:ILE:HB	1.87	0.55
1:A:1029:SER:HA	1:B:1989:PRO:HA	1.89	0.55
1:A:1233:GLY:O	1:A:1249:PHE:HA	2.07	0.55
1:A:1760:PHE:HD2	1:A:1820:PRO:HG3	1.71	0.55
1:A:930:GLN:HA	1:A:933:THR:HG22	1.87	0.55
1:B:1015:ARG:HA	1:B:1105:GLN:OE1	2.07	0.55
1:B:2216:ARG:HA	1:C:2077:GLU:OE1	2.05	0.55
1:B:2419:LEU:HD12	1:B:2429:VAL:HG11	1.88	0.55
1:C:1016:GLN:HE21	1:C:1129:SER:HB3	1.72	0.55
1:C:2245:PHE:HD2	1:D:2044:ILE:HG21	1.71	0.55
1:C:2430:GLN:HB2	1:C:2497:GLN:NE2	2.22	0.55
1:D:1093:VAL:HG21	1:D:1605:LEU:HD13	1.89	0.55
1:D:1760:PHE:HD2	1:D:1820:PRO:CG	2.20	0.55
1:D:1760:PHE:CD2	1:D:1820:PRO:HG3	2.42	0.55
1:D:2183:GLU:CD	1:E:2111:GLU:CG	2.75	0.55
1:E:2118:ARG:NH2	1:E:2177:ASP:OD2	2.39	0.55
1:A:2327:ARG:NH1	1:E:2468:LYS:HD3	2.20	0.55
1:A:1016:GLN:HE21	1:A:1129:SER:HB3	1.72	0.55
1:A:1584:LEU:HD13	1:A:1596:MET:HG3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:PHE:CE1	1:A:1771:LEU:HG	2.42	0.55
1:B:1760:PHE:HD2	1:B:1820:PRO:CG	2.20	0.55
1:A:2201:ALA:HB1	1:B:2091:GLY:CA	2.37	0.55
1:B:2281:ARG:NH1	1:B:2290:ARG:HH21	2.04	0.55
1:C:152:GLN:HE21	1:C:156:ASP:CG	2.10	0.55
1:D:2430:GLN:HB2	1:D:2497:GLN:NE2	2.22	0.55
1:E:1132:ASN:HB3	1:E:1843:HIS:NE2	2.22	0.55
1:E:1760:PHE:HD2	1:E:1820:PRO:CG	2.19	0.55
1:A:1093:VAL:HG21	1:A:1605:LEU:HD13	1.89	0.55
1:B:1760:PHE:CD2	1:B:1820:PRO:HG3	2.42	0.55
1:D:1760:PHE:HD2	1:D:1820:PRO:HG3	1.71	0.55
1:E:1841:ALA:O	1:E:1842:GLN:CB	2.53	0.55
1:A:2114:ALA:CB	1:E:2179:ILE:HG22	2.27	0.55
1:A:1132:ASN:HB3	1:A:1843:HIS:NE2	2.22	0.55
1:A:1989:PRO:HA	1:E:1029:SER:HA	1.89	0.55
1:A:2194:ILE:HD11	1:B:2098:SER:HG	1.70	0.55
1:A:2205:GLN:N	1:B:2087:LYS:CG	2.70	0.55
1:B:1016:GLN:HE21	1:B:1129:SER:HB3	1.72	0.55
1:B:1286:TYR:O	1:B:1290:SER:OG	2.15	0.55
1:C:1015:ARG:HA	1:C:1105:GLN:OE1	2.07	0.55
1:D:1204:ARG:HH21	1:D:1210:ASN:CG	2.10	0.55
1:C:1272:ASP:CG	1:D:1622:ASP:O	2.43	0.55
1:D:2194:ILE:HD11	1:E:2098:SER:HG	1.71	0.55
1:E:1015:ARG:HA	1:E:1105:GLN:OE1	2.07	0.55
1:E:1078:PHE:CE1	1:E:1771:LEU:HG	2.42	0.55
1:E:2429:VAL:O	1:E:2451:SER:HA	2.06	0.55
1:E:141:ARG:HD3	1:E:970:TYR:O	2.06	0.55
1:A:1806:ILE:HG13	1:A:1809:GLY:O	2.06	0.55
1:A:2419:LEU:HD12	1:A:2429:VAL:HG11	1.88	0.55
1:B:124:ARG:NH1	1:B:1913:ILE:HA	2.22	0.55
1:B:152:GLN:HE21	1:B:156:ASP:CG	2.10	0.55
1:C:1272:ASP:CG	1:D:1623:THR:CA	2.43	0.55
1:C:1665:ILE:HG23	1:C:1674:HIS:HD2	1.72	0.55
1:C:2007:GLY:O	1:C:2009:LEU:HG	2.07	0.55
1:E:1665:ILE:HG23	1:E:1674:HIS:HD2	1.72	0.55
1:D:1244:THR:CG2	1:E:1808:HIS:HA	2.33	0.55
1:E:2348:ASN:HB3	1:E:2370:SER:HB2	1.89	0.55
1:B:994:GLN:O	1:B:998:ASN:ND2	2.37	0.54
1:C:1078:PHE:CE1	1:C:1771:LEU:HG	2.42	0.54
1:C:1841:ALA:O	1:C:1842:GLN:CB	2.53	0.54
1:C:2458:GLY:O	1:D:2330:GLU:OE1	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1016:GLN:HE21	1:D:1129:SER:HB3	1.72	0.54
1:D:1584:LEU:HD13	1:D:1596:MET:HG3	1.89	0.54
1:D:1665:ILE:HG23	1:D:1674:HIS:HD2	1.72	0.54
1:E:1584:LEU:HD13	1:E:1596:MET:HG3	1.89	0.54
1:A:152:GLN:HE21	1:A:156:ASP:CG	2.10	0.54
1:A:1760:PHE:CD2	1:A:1820:PRO:HG3	2.42	0.54
1:A:2330:GLU:CG	1:E:2460:PHE:CZ	2.90	0.54
1:C:1132:ASN:HB3	1:C:1843:HIS:NE2	2.22	0.54
1:C:2118:ARG:NH2	1:C:2177:ASP:OD2	2.39	0.54
1:D:1249:PHE:N	1:D:1265:GLN:O	2.29	0.54
1:D:1795:TRP:HA	1:D:1798:TYR:HD2	1.72	0.54
1:E:103:TYR:HD1	1:E:1950:PRO:HG2	1.73	0.54
1:E:1739:SER:OG	1:E:1740:ILE:N	2.39	0.54
1:A:1015:ARG:HA	1:A:1105:GLN:OE1	2.07	0.54
1:A:124:ARG:NH1	1:A:1913:ILE:HA	2.22	0.54
1:A:1097:TYR:CD1	1:A:1303:ASN:HB2	2.43	0.54
1:A:1680:GLN:N	1:A:1680:GLN:OE1	2.39	0.54
1:A:994:GLN:O	1:A:998:ASN:ND2	2.37	0.54
1:B:1132:ASN:HB3	1:B:1843:HIS:NE2	2.22	0.54
1:B:2013:PHE:HZ	1:C:2323:LYS:CG	2.16	0.54
1:A:2172:MET:CE	1:B:2121:ALA:HB2	2.37	0.54
1:A:2460:PHE:CZ	1:B:2330:GLU:CG	2.89	0.54
1:C:1795:TRP:HA	1:C:1798:TYR:HD2	1.72	0.54
1:C:2012:SER:OG	1:C:2443:ASN:OD1	2.15	0.54
1:E:2007:GLY:O	1:E:2009:LEU:HG	2.07	0.54
1:E:2019:PHE:CD1	1:E:2280:TYR:HB2	2.43	0.54
1:A:1057:MET:CE	1:A:1770:GLU:HB3	2.38	0.54
1:D:1015:ARG:HA	1:D:1105:GLN:OE1	2.07	0.54
1:D:2173:ASN:HA	1:E:2117:LEU:CD2	2.37	0.54
1:E:961:ILE:HG23	1:E:962:LYS:H	1.73	0.54
1:A:103:TYR:HD1	1:A:1950:PRO:HG2	1.72	0.54
1:B:1097:TYR:CD1	1:B:1303:ASN:HB2	2.43	0.54
1:B:1300:ARG:HD2	1:B:1586:LEU:HD22	1.89	0.54
1:B:1665:ILE:HG23	1:B:1674:HIS:HD2	1.72	0.54
1:B:1057:MET:CE	1:B:1770:GLU:HB3	2.38	0.54
1:B:2012:SER:OG	1:B:2443:ASN:OD1	2.15	0.54
1:C:2348:ASN:HB3	1:C:2370:SER:HB2	1.90	0.54
1:D:2348:ASN:HB3	1:D:2370:SER:HB2	1.89	0.54
1:E:1097:TYR:CD1	1:E:1303:ASN:HB2	2.43	0.54
1:A:1300:ARG:HD2	1:A:1586:LEU:HD22	1.89	0.54
1:B:1739:SER:OG	1:B:1740:ILE:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2194:ILE:CG2	1:B:2099:TYR:OH	2.47	0.54
1:C:1097:TYR:CD1	1:C:1303:ASN:HB2	2.43	0.54
1:C:1760:PHE:CD2	1:C:1820:PRO:HG3	2.42	0.54
1:C:964:ARG:O	1:C:967:LEU:HB3	2.08	0.54
1:D:124:ARG:NH1	1:D:1913:ILE:HA	2.22	0.54
1:E:1057:MET:CE	1:E:1770:GLU:HB3	2.38	0.54
1:E:1016:GLN:HE21	1:E:1129:SER:HB3	1.72	0.54
1:E:964:ARG:O	1:E:967:LEU:HB3	2.08	0.54
1:A:2348:ASN:HB3	1:A:2370:SER:HB2	1.89	0.54
1:A:964:ARG:O	1:A:967:LEU:HB3	2.08	0.54
1:C:1041:PRO:O	1:C:1045:ILE:HG12	2.08	0.54
1:B:1029:SER:HA	1:C:1989:PRO:HA	1.89	0.54
1:D:1078:PHE:CE1	1:D:1771:LEU:HG	2.42	0.54
1:D:2016:LEU:CD1	1:E:2327:ARG:HB2	2.38	0.54
1:A:1041:PRO:O	1:A:1045:ILE:HG12	2.08	0.54
1:A:2007:GLY:O	1:A:2009:LEU:HG	2.07	0.54
1:A:95:GLN:O	1:A:96:PHE:C	2.46	0.54
1:B:1584:LEU:HD13	1:B:1596:MET:HG3	1.89	0.54
1:B:2253:TRP:CD1	1:C:2301:TYR:CE2	2.95	0.54
1:B:964:ARG:O	1:B:967:LEU:HB3	2.08	0.54
1:C:1057:MET:CE	1:C:1770:GLU:HB3	2.38	0.54
1:C:2194:ILE:HD11	1:D:2098:SER:HG	1.71	0.54
1:D:1041:PRO:O	1:D:1045:ILE:HG12	2.08	0.54
1:D:1057:MET:CE	1:D:1770:GLU:HB3	2.38	0.54
1:E:1795:TRP:HA	1:E:1798:TYR:HD2	1.72	0.54
1:D:2468:LYS:HD3	1:E:2327:ARG:NH1	2.23	0.54
1:E:2382:ASP:O	1:E:2383:THR:OG1	2.18	0.54
1:A:1760:PHE:HD2	1:A:1820:PRO:CG	2.20	0.54
1:B:1041:PRO:O	1:B:1045:ILE:HG12	2.08	0.54
1:B:1675:ILE:HD12	1:B:1675:ILE:H	1.73	0.54
1:C:1093:VAL:HG21	1:C:1605:LEU:HD13	1.88	0.54
1:C:124:ARG:NH1	1:C:1913:ILE:HA	2.22	0.54
1:C:2016:LEU:CD1	1:D:2327:ARG:HB2	2.38	0.54
1:C:2019:PHE:CZ	1:C:2023:LEU:HD22	2.43	0.54
1:C:2183:GLU:CD	1:D:2111:GLU:CG	2.75	0.54
1:C:2019:PHE:CD1	1:C:2280:TYR:HB2	2.43	0.54
1:D:1097:TYR:CD1	1:D:1303:ASN:HB2	2.43	0.54
1:D:961:ILE:HG23	1:D:962:LYS:H	1.73	0.54
1:A:1665:ILE:HG23	1:A:1674:HIS:HD2	1.72	0.54
1:A:2019:PHE:CD1	1:A:2280:TYR:HB2	2.43	0.54
1:B:1093:VAL:HG21	1:B:1605:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1865:ASP:OD1	1:B:1883:TYR:OH	2.26	0.54
1:B:2172:MET:CE	1:C:2121:ALA:CB	2.86	0.54
1:C:103:TYR:HD1	1:C:1950:PRO:HG2	1.73	0.54
1:D:115:PRO:CG	1:E:1986:TYR:CD1	2.91	0.54
1:D:2194:ILE:HG21	1:E:2099:TYR:CE1	2.43	0.54
1:A:2117:LEU:HD13	1:E:2176:ALA:HB2	1.81	0.54
1:A:1795:TRP:HA	1:A:1798:TYR:HD2	1.72	0.53
1:A:2409:ILE:HG13	1:A:2516:LYS:HB2	1.91	0.53
1:B:1078:PHE:CE1	1:B:1771:LEU:HG	2.42	0.53
1:D:1675:ILE:HD12	1:D:1675:ILE:H	1.73	0.53
1:E:1041:PRO:O	1:E:1045:ILE:HG12	2.08	0.53
1:E:1204:ARG:HH21	1:E:1210:ASN:CG	2.10	0.53
1:A:961:ILE:HG23	1:A:962:LYS:H	1.73	0.53
1:C:1204:ARG:HH21	1:C:1210:ASN:CG	2.10	0.53
1:C:1584:LEU:HD13	1:C:1596:MET:HG3	1.89	0.53
1:C:1760:PHE:HD2	1:C:1820:PRO:HG3	1.71	0.53
1:B:2449:ALA:HB2	1:C:2329:LEU:HD13	1.90	0.53
1:C:2423:LEU:HD22	1:C:2429:VAL:HG23	1.91	0.53
1:D:2423:LEU:HD22	1:D:2429:VAL:HG23	1.90	0.53
1:A:2323:LYS:CG	1:E:2013:PHE:HZ	2.16	0.53
1:B:2007:GLY:O	1:B:2009:LEU:HG	2.07	0.53
1:B:2019:PHE:CZ	1:B:2023:LEU:HD22	2.43	0.53
1:C:1865:ASP:OD1	1:C:1883:TYR:OH	2.26	0.53
1:C:2176:ALA:HB2	1:D:2117:LEU:HD13	1.83	0.53
1:C:2183:GLU:OE2	1:D:2111:GLU:CG	2.57	0.53
1:C:2194:ILE:HG21	1:D:2099:TYR:CE1	2.44	0.53
1:C:2272:ARG:NH2	1:D:2318:GLU:CB	2.72	0.53
1:D:2409:ILE:HG13	1:D:2516:LYS:HB2	1.91	0.53
1:D:964:ARG:O	1:D:967:LEU:HB3	2.08	0.53
1:E:2019:PHE:CZ	1:E:2023:LEU:HD22	2.43	0.53
1:D:2204:LYS:C	1:E:2087:LYS:HG2	2.28	0.53
1:E:95:GLN:O	1:E:96:PHE:C	2.46	0.53
1:A:1675:ILE:HD12	1:A:1675:ILE:H	1.73	0.53
1:A:1808:HIS:HA	1:E:1244:THR:CG2	2.37	0.53
1:A:2423:LEU:HD22	1:A:2429:VAL:HG23	1.91	0.53
1:B:1204:ARG:HH21	1:B:1210:ASN:CG	2.10	0.53
1:B:2430:GLN:H	1:B:2497:GLN:NE2	2.07	0.53
1:B:2173:ASN:HA	1:C:2117:LEU:CD2	2.37	0.53
1:C:2239:ALA:HB1	1:C:2243:ARG:NH1	2.20	0.53
1:D:1132:ASN:HB3	1:D:1843:HIS:NE2	2.22	0.53
1:D:103:TYR:HD1	1:D:1950:PRO:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2007:GLY:O	1:D:2009:LEU:HG	2.07	0.53
1:D:2019:PHE:CD1	1:D:2280:TYR:HB2	2.43	0.53
1:D:1026:LYS:NZ	1:E:1878:GLU:CD	2.62	0.53
1:E:2409:ILE:HG13	1:E:2516:LYS:HB2	1.91	0.53
1:A:1204:ARG:HH21	1:A:1210:ASN:CG	2.10	0.53
1:A:2016:LEU:CD1	1:B:2327:ARG:HB2	2.39	0.53
1:B:1795:TRP:HA	1:B:1798:TYR:HD2	1.72	0.53
1:B:2423:LEU:HD22	1:B:2429:VAL:HG23	1.90	0.53
1:B:95:GLN:O	1:B:96:PHE:C	2.46	0.53
1:B:2245:PHE:HD2	1:C:2044:ILE:HG21	1.72	0.53
1:D:2183:GLU:OE2	1:E:2111:GLU:CG	2.57	0.53
1:E:1249:PHE:N	1:E:1265:GLN:O	2.29	0.53
1:E:1675:ILE:H	1:E:1675:ILE:HD12	1.73	0.53
1:A:1081:TYR:CD2	1:A:1771:LEU:HD12	2.44	0.53
1:A:2019:PHE:CZ	1:A:2023:LEU:HD22	2.43	0.53
1:A:2430:GLN:H	1:A:2497:GLN:NE2	2.07	0.53
1:B:1641:PHE:CE2	1:B:1643:ALA:HB2	2.44	0.53
1:A:2223:GLN:HA	1:B:2070:ILE:HD11	1.90	0.53
1:D:1081:TYR:CD2	1:D:1771:LEU:HD12	2.44	0.53
1:D:1091:LEU:HD21	1:D:1122:TYR:HD2	1.73	0.53
1:E:1091:LEU:HD21	1:E:1122:TYR:HD2	1.73	0.53
1:E:1865:ASP:OD1	1:E:1883:TYR:OH	2.26	0.53
1:A:1758:MET:HG3	1:A:1760:PHE:CE1	2.44	0.53
1:B:1660:TRP:CH2	1:B:1680:GLN:HB3	2.36	0.53
1:B:2172:MET:HE2	1:C:2121:ALA:CB	2.39	0.53
1:B:2374:ASN:OD1	1:B:2374:ASN:N	2.40	0.53
1:C:1202:HIS:CE1	1:C:1210:ASN:HD22	2.27	0.53
1:C:1081:TYR:CD2	1:C:1771:LEU:HD12	2.44	0.53
1:D:1202:HIS:CE1	1:D:1210:ASN:HD22	2.27	0.53
1:E:1300:ARG:HD2	1:E:1586:LEU:HD22	1.90	0.53
1:E:124:ARG:NH1	1:E:1913:ILE:HA	2.22	0.53
1:D:2187:ARG:CZ	1:E:2188:ARG:NH2	2.72	0.53
1:A:1641:PHE:CE2	1:A:1643:ALA:HB2	2.44	0.53
1:B:1202:HIS:CE1	1:B:1210:ASN:HD22	2.27	0.53
1:C:2472:PHE:O	1:C:2475:ILE:HG12	2.08	0.53
1:C:2430:GLN:H	1:C:2497:GLN:NE2	2.07	0.53
1:C:2409:ILE:HG13	1:C:2516:LYS:HB2	1.91	0.53
1:D:1300:ARG:HD2	1:D:1586:LEU:HD22	1.89	0.53
1:D:2222:LEU:HD12	1:E:2073:LYS:CD	2.29	0.53
1:C:2449:ALA:HB2	1:D:2329:LEU:HD13	1.90	0.53
1:E:2423:LEU:HD22	1:E:2429:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2374:ASN:OD1	1:A:2374:ASN:N	2.40	0.53
1:B:1758:MET:HG3	1:B:1760:PHE:CE1	2.44	0.53
1:B:2187:ARG:CZ	1:C:2188:ARG:NH2	2.72	0.53
1:B:2409:ILE:HG13	1:B:2516:LYS:HB2	1.91	0.53
1:C:1091:LEU:HD21	1:C:1122:TYR:HD2	1.73	0.53
1:C:1300:ARG:HD2	1:C:1586:LEU:HD22	1.89	0.53
1:C:1675:ILE:HD12	1:C:1675:ILE:H	1.73	0.53
1:C:2106:ASN:C	1:C:2107:ILE:CG1	2.78	0.53
1:D:1758:MET:HG3	1:D:1760:PHE:CE1	2.44	0.53
1:D:1865:ASP:OD1	1:D:1883:TYR:OH	2.26	0.53
1:E:1758:MET:HG3	1:E:1760:PHE:CE1	2.44	0.53
1:A:2111:GLU:CG	1:E:2183:GLU:CD	2.78	0.53
1:E:2239:ALA:HB1	1:E:2243:ARG:NH1	2.20	0.53
1:C:2014:MET:HA	1:C:2278:GLN:HG3	1.91	0.53
1:D:2014:MET:HA	1:D:2278:GLN:HG3	1.90	0.53
1:D:95:GLN:O	1:D:96:PHE:C	2.46	0.53
1:E:2430:GLN:H	1:E:2497:GLN:NE2	2.07	0.53
1:A:1204:ARG:HH21	1:A:1210:ASN:ND2	2.08	0.52
1:A:2014:MET:HA	1:A:2278:GLN:HG3	1.91	0.52
1:B:1112:GLY:N	1:B:1122:TYR:O	2.32	0.52
1:A:1244:THR:CG2	1:B:1808:HIS:HA	2.34	0.52
1:A:2449:ALA:HB2	1:B:2329:LEU:HD13	1.91	0.52
1:B:2382:ASP:O	1:B:2383:THR:OG1	2.18	0.52
1:C:1641:PHE:CE2	1:C:1643:ALA:HB2	2.44	0.52
1:B:2208:ALA:HB3	1:C:2084:VAL:HG22	1.90	0.52
1:B:2258:LEU:CB	1:C:2305:LEU:HD21	2.22	0.52
1:C:95:GLN:O	1:C:96:PHE:C	2.46	0.52
1:D:1220:LYS:HE3	1:D:1267:LEU:HB3	1.91	0.52
1:D:2179:ILE:HG21	1:E:2114:ALA:H	1.74	0.52
1:E:1641:PHE:CE2	1:E:1643:ALA:HB2	2.44	0.52
1:A:1865:ASP:OD1	1:A:1883:TYR:OH	2.26	0.52
1:A:2472:PHE:O	1:A:2475:ILE:HG12	2.08	0.52
1:B:1081:TYR:CD2	1:B:1771:LEU:HD12	2.44	0.52
1:B:103:TYR:HD1	1:B:1950:PRO:HG2	1.72	0.52
1:A:2222:LEU:CD1	1:B:2073:LYS:CE	2.87	0.52
1:B:2472:PHE:O	1:B:2475:ILE:HG12	2.08	0.52
1:C:1660:TRP:CH2	1:C:1680:GLN:HB3	2.36	0.52
1:D:1666:LYS:HD2	1:D:1708:TYR:HE1	1.74	0.52
1:D:2019:PHE:CZ	1:D:2023:LEU:HD22	2.43	0.52
1:D:2205:GLN:N	1:E:2087:LYS:CG	2.72	0.52
1:D:2272:ARG:NH2	1:E:2318:GLU:CB	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2222:LEU:HD11	1:E:2073:LYS:HE2	1.91	0.52
1:D:2201:ALA:HB1	1:E:2091:GLY:CA	2.38	0.52
1:A:2117:LEU:CD2	1:E:2173:ASN:HA	2.37	0.52
1:B:2194:ILE:HD11	1:C:2098:SER:HG	1.72	0.52
1:B:961:ILE:HG23	1:B:962:LYS:H	1.73	0.52
1:C:1220:LYS:HE3	1:C:1267:LEU:HB3	1.91	0.52
1:C:2447:ALA:CB	1:D:2329:LEU:HD22	2.38	0.52
1:C:961:ILE:HG23	1:C:962:LYS:H	1.73	0.52
1:C:148:MET:SD	1:C:986:ILE:HG22	2.50	0.52
1:D:2172:MET:CE	1:E:2121:ALA:CB	2.87	0.52
1:D:160:SER:CA	1:D:982:LYS:HD2	2.40	0.52
1:E:1081:TYR:CD2	1:E:1771:LEU:HD12	2.44	0.52
1:E:1202:HIS:CE1	1:E:1210:ASN:HD22	2.27	0.52
1:E:1821:LEU:HD22	1:E:1849:LYS:HG3	1.91	0.52
1:A:2213:LEU:HD23	1:A:2216:ARG:HD2	1.92	0.52
1:A:2218:GLU:OE1	1:B:2073:LYS:HB3	2.10	0.52
1:C:1821:LEU:HD23	1:C:1845:PRO:HB2	1.91	0.52
1:B:2183:GLU:CD	1:C:2111:GLU:CG	2.77	0.52
1:C:2213:LEU:HD23	1:C:2216:ARG:HD2	1.92	0.52
1:C:2222:LEU:CD1	1:D:2073:LYS:CE	2.87	0.52
1:D:2472:PHE:O	1:D:2475:ILE:HG12	2.08	0.52
1:E:160:SER:CA	1:E:982:LYS:HD2	2.40	0.52
1:E:2472:PHE:O	1:E:2475:ILE:HG12	2.08	0.52
1:E:93:ASN:HD21	1:E:1894:PRO:CA	2.22	0.52
1:A:1091:LEU:HD21	1:A:1122:TYR:HD2	1.73	0.52
1:A:2084:VAL:HG22	1:E:2208:ALA:HB3	1.90	0.52
1:B:1091:LEU:HD21	1:B:1122:TYR:HD2	1.73	0.52
1:B:1604:ARG:NH1	1:B:1759:ASP:OD2	2.43	0.52
1:A:2187:ARG:CZ	1:B:2188:ARG:NH2	2.72	0.52
1:B:2348:ASN:HB3	1:B:2370:SER:HB2	1.89	0.52
1:B:93:ASN:HD21	1:B:1894:PRO:CA	2.22	0.52
1:C:2223:GLN:HA	1:D:2070:ILE:HD11	1.91	0.52
1:D:148:MET:SD	1:D:986:ILE:HG22	2.50	0.52
1:D:1821:LEU:HD23	1:D:1845:PRO:HB2	1.91	0.52
1:D:2223:GLN:HA	1:E:2070:ILE:HD11	1.90	0.52
1:C:2460:PHE:CE1	1:D:2512:ARG:HB3	2.44	0.52
1:E:148:MET:SD	1:E:986:ILE:HG22	2.49	0.52
1:E:2213:LEU:HD23	1:E:2216:ARG:HD2	1.92	0.52
1:E:2014:MET:HA	1:E:2278:GLN:HG3	1.91	0.52
1:A:125:GLU:HG3	1:A:1017:PHE:CD1	2.45	0.52
1:B:1249:PHE:N	1:B:1265:GLN:O	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:160:SER:CA	1:B:982:LYS:HD2	2.40	0.52
1:B:1666:LYS:HD2	1:B:1708:TYR:HE1	1.74	0.52
1:B:2019:PHE:CD1	1:B:2280:TYR:HB2	2.43	0.52
1:A:2222:LEU:HD11	1:B:2073:LYS:HE2	1.90	0.52
1:C:160:SER:CA	1:C:982:LYS:HD2	2.40	0.52
1:C:1758:MET:HG3	1:C:1760:PHE:CE1	2.44	0.52
1:C:1604:ARG:NH1	1:C:1759:ASP:OD2	2.43	0.52
1:C:2222:LEU:HD11	1:D:2073:LYS:HE2	1.91	0.52
1:D:1641:PHE:CE2	1:D:1643:ALA:HB2	2.44	0.52
1:A:1666:LYS:HD2	1:A:1708:TYR:HE1	1.74	0.52
1:A:2204:LYS:C	1:B:2087:LYS:HG2	2.27	0.52
1:A:2239:ALA:HB1	1:A:2243:ARG:NH1	2.20	0.52
1:A:2310:LEU:O	1:A:2313:SER:N	2.43	0.52
1:B:125:GLU:HG3	1:B:1017:PHE:CD1	2.45	0.52
1:B:2310:LEU:O	1:B:2313:SER:N	2.43	0.52
1:C:1249:PHE:N	1:C:1265:GLN:O	2.29	0.52
1:D:2213:LEU:HD23	1:D:2216:ARG:HD2	1.92	0.52
1:D:2382:ASP:O	1:D:2383:THR:OG1	2.18	0.52
1:D:2218:GLU:OE1	1:E:2073:LYS:HB3	2.10	0.52
1:E:162:LEU:HD22	1:E:977:VAL:O	2.10	0.52
1:A:1042:GLU:OE2	1:A:1953:ASN:ND2	2.43	0.52
1:A:162:LEU:HD22	1:A:977:VAL:O	2.10	0.52
1:A:1821:LEU:HD23	1:A:1845:PRO:HB2	1.91	0.52
1:A:1995:LEU:HD13	1:E:1034:VAL:HB	1.92	0.52
1:A:2382:ASP:O	1:A:2383:THR:OG1	2.18	0.52
1:C:2201:ALA:HB1	1:D:2091:GLY:CA	2.39	0.52
1:C:2173:ASN:HA	1:D:2117:LEU:CD2	2.37	0.52
1:C:2468:LYS:HD3	1:D:2327:ARG:NH1	2.24	0.52
1:D:162:LEU:HD22	1:D:977:VAL:O	2.10	0.52
1:A:1878:GLU:CD	1:E:1026:LYS:NZ	2.63	0.52
1:A:1068:GLN:NE2	1:E:1205:TYR:CD2	2.78	0.52
1:E:1666:LYS:HD2	1:E:1708:TYR:HE1	1.74	0.52
1:E:2310:LEU:O	1:E:2313:SER:N	2.43	0.52
1:A:1821:LEU:HD22	1:A:1849:LYS:HG3	1.91	0.52
1:A:2013:PHE:HZ	1:B:2323:LYS:CG	2.17	0.52
1:B:1080:SER:HA	1:B:1083:THR:HG22	1.92	0.52
1:B:148:MET:SD	1:B:986:ILE:HG22	2.49	0.52
1:B:1821:LEU:HD22	1:B:1849:LYS:HG3	1.91	0.52
1:C:162:LEU:HD22	1:C:977:VAL:O	2.10	0.52
1:C:1666:LYS:HD2	1:C:1708:TYR:HE1	1.74	0.52
1:D:1103:ASN:ND2	1:D:1598:TRP:CG	2.76	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:115:PRO:CG	1:D:1986:TYR:CD1	2.93	0.52
1:D:2258:LEU:HD13	1:E:2308:GLU:OE1	2.10	0.52
1:E:1723:PRO:HD3	1:E:1744:PHE:HE2	1.75	0.52
1:D:1244:THR:HG21	1:E:1809:GLY:N	2.25	0.52
1:A:1220:LYS:HE3	1:A:1267:LEU:HB3	1.91	0.52
1:A:2106:ASN:C	1:A:2107:ILE:CG1	2.78	0.52
1:B:1204:ARG:HH21	1:B:1210:ASN:ND2	2.08	0.52
1:B:162:LEU:HD22	1:B:977:VAL:O	2.10	0.52
1:B:1758:MET:O	1:B:1819:ARG:NH1	2.32	0.52
1:B:2239:ALA:HB1	1:B:2243:ARG:NH1	2.20	0.52
1:B:2014:MET:HA	1:B:2278:GLN:HG3	1.91	0.52
1:C:1723:PRO:HD3	1:C:1744:PHE:HE2	1.75	0.52
1:B:2204:LYS:C	1:C:2087:LYS:HG2	2.30	0.52
1:C:2094:SER:O	1:C:2098:SER:CB	2.58	0.52
1:C:2106:ASN:C	1:C:2107:ILE:HG12	2.31	0.52
1:C:2310:LEU:O	1:C:2313:SER:N	2.42	0.52
1:D:2106:ASN:C	1:D:2107:ILE:CG1	2.78	0.52
1:D:2106:ASN:C	1:D:2107:ILE:HG12	2.31	0.52
1:D:2089:LYS:HB2	1:D:2206:ILE:HG21	1.92	0.52
1:D:93:ASN:HD21	1:D:1894:PRO:CA	2.22	0.52
1:E:1660:TRP:HD1	1:E:1661:PHE:C	2.13	0.52
1:D:2460:PHE:CZ	1:E:2330:GLU:CG	2.92	0.52
1:A:1112:GLY:N	1:A:1122:TYR:O	2.32	0.51
1:A:1202:HIS:CE1	1:A:1210:ASN:HD22	2.27	0.51
1:A:1660:TRP:HD1	1:A:1661:PHE:C	2.13	0.51
1:A:160:SER:CA	1:A:982:LYS:HD2	2.40	0.51
1:B:193:ARG:NH2	1:B:194:PRO:O	2.44	0.51
1:B:2106:ASN:C	1:B:2107:ILE:CG1	2.78	0.51
1:B:2213:LEU:HD23	1:B:2216:ARG:HD2	1.92	0.51
1:C:125:GLU:HG3	1:C:1017:PHE:CD1	2.45	0.51
1:C:2374:ASN:OD1	1:C:2374:ASN:N	2.40	0.51
1:D:1016:GLN:H	1:D:1105:GLN:NE2	2.08	0.51
1:D:1723:PRO:HD3	1:D:1744:PHE:HE2	1.75	0.51
1:E:105:ALA:HB2	1:E:1898:LEU:HD23	1.92	0.51
1:A:1986:TYR:CD1	1:E:115:PRO:CG	2.93	0.51
1:E:1758:MET:O	1:E:1819:ARG:NH1	2.32	0.51
1:E:2054:ALA:O	1:E:2058:ASN:ND2	2.43	0.51
1:E:2094:SER:O	1:E:2098:SER:CB	2.58	0.51
1:A:2087:LYS:CG	1:E:2205:GLN:N	2.73	0.51
1:B:1220:LYS:HE3	1:B:1267:LEU:HB3	1.91	0.51
1:B:1821:LEU:HD23	1:B:1845:PRO:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2094:SER:O	1:B:2098:SER:CB	2.58	0.51
1:C:193:ARG:NH2	1:C:194:PRO:O	2.44	0.51
1:B:2460:PHE:CZ	1:C:2330:GLU:CG	2.90	0.51
1:D:119:LEU:HD22	1:D:986:ILE:HB	1.92	0.51
1:E:125:GLU:HG3	1:E:1017:PHE:CD1	2.45	0.51
1:E:1042:GLU:OE2	1:E:1953:ASN:ND2	2.43	0.51
1:E:2089:LYS:HB2	1:E:2206:ILE:HG21	1.92	0.51
1:A:141:ARG:HH22	1:A:1005:GLU:CD	2.14	0.51
1:A:148:MET:SD	1:A:986:ILE:HG22	2.50	0.51
1:B:1272:ASP:CG	1:C:1623:THR:CA	2.43	0.51
1:B:2194:ILE:HG21	1:C:2099:TYR:CE1	2.45	0.51
1:C:2187:ARG:CZ	1:D:2188:ARG:NH2	2.73	0.51
1:D:1660:TRP:HD1	1:D:1661:PHE:C	2.13	0.51
1:C:2208:ALA:HB3	1:D:2084:VAL:HG22	1.92	0.51
1:D:2094:SER:O	1:D:2098:SER:CB	2.58	0.51
1:E:1220:LYS:HE3	1:E:1267:LEU:HB3	1.91	0.51
1:E:141:ARG:HH22	1:E:1005:GLU:CD	2.14	0.51
1:E:1821:LEU:HD23	1:E:1845:PRO:HB2	1.91	0.51
1:D:2222:LEU:CD1	1:E:2073:LYS:CE	2.88	0.51
1:D:2458:GLY:O	1:E:2330:GLU:OE1	2.27	0.51
1:A:1604:ARG:NH1	1:A:1759:ASP:OD2	2.43	0.51
1:A:1800:TRP:CD1	1:A:1816:TRP:CE2	2.99	0.51
1:A:105:ALA:HB2	1:A:1898:LEU:HD23	1.92	0.51
1:A:193:ARG:NH2	1:A:194:PRO:O	2.44	0.51
1:A:2089:LYS:HB2	1:A:2206:ILE:HG21	1.92	0.51
1:A:2327:ARG:HH11	1:E:2468:LYS:HD3	1.76	0.51
1:B:141:ARG:HH22	1:B:1005:GLU:CD	2.14	0.51
1:C:1244:THR:HG21	1:D:1809:GLY:N	2.25	0.51
1:C:1644:THR:HA	1:C:1689:THR:HA	1.93	0.51
1:C:2089:LYS:HB2	1:C:2206:ILE:HG21	1.93	0.51
1:D:125:GLU:HG3	1:D:1017:PHE:CD1	2.45	0.51
1:D:1034:VAL:HB	1:E:1995:LEU:HD13	1.93	0.51
1:D:1100:ASN:HB2	1:D:1106:GLY:HA3	1.93	0.51
1:D:1604:ARG:NH1	1:D:1759:ASP:OD2	2.43	0.51
1:D:1821:LEU:HD22	1:D:1849:LYS:HG3	1.91	0.51
1:D:193:ARG:NH2	1:D:194:PRO:O	2.44	0.51
1:C:2460:PHE:HB3	1:D:2464:PHE:CE2	2.44	0.51
1:D:2430:GLN:H	1:D:2497:GLN:NE2	2.07	0.51
1:E:193:ARG:NH2	1:E:194:PRO:O	2.44	0.51
1:A:1016:GLN:H	1:A:1105:GLN:NE2	2.08	0.51
1:A:1080:SER:HA	1:A:1083:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1097:TYR:CD2	1:A:1162:ILE:HD12	2.46	0.51
1:A:1644:THR:HA	1:A:1689:THR:HA	1.93	0.51
1:A:2094:SER:O	1:A:2098:SER:CB	2.58	0.51
1:A:2458:GLY:O	1:B:2330:GLU:OE1	2.27	0.51
1:B:1660:TRP:HD1	1:B:1661:PHE:C	2.13	0.51
1:B:1723:PRO:HD3	1:B:1744:PHE:HE2	1.75	0.51
1:C:1122:TYR:HE1	1:C:1146:LYS:HG3	1.76	0.51
1:C:141:ARG:HH22	1:C:1005:GLU:CD	2.14	0.51
1:B:1244:THR:CG2	1:C:1808:HIS:HA	2.38	0.51
1:C:2172:MET:CE	1:D:2121:ALA:CB	2.88	0.51
1:C:2258:LEU:HD13	1:D:2308:GLU:OE1	2.11	0.51
1:C:1026:LYS:NZ	1:D:1878:GLU:CD	2.63	0.51
1:D:2310:LEU:O	1:D:2313:SER:N	2.43	0.51
1:E:1016:GLN:H	1:E:1105:GLN:NE2	2.08	0.51
1:D:1029:SER:HA	1:E:1989:PRO:HA	1.91	0.51
1:A:2121:ALA:CB	1:E:2172:MET:CE	2.88	0.51
1:A:1723:PRO:HD3	1:A:1744:PHE:HE2	1.75	0.51
1:A:2054:ALA:O	1:A:2058:ASN:ND2	2.43	0.51
1:A:2087:LYS:HG2	1:E:2204:LYS:C	2.30	0.51
1:B:2089:LYS:HB2	1:B:2206:ILE:HG21	1.92	0.51
1:B:2331:VAL:HG11	1:B:2402:TYR:HE2	1.76	0.51
1:C:1016:GLN:H	1:C:1105:GLN:NE2	2.08	0.51
1:B:2458:GLY:O	1:C:2330:GLU:OE1	2.27	0.51
1:E:1204:ARG:HH21	1:E:1210:ASN:ND2	2.08	0.51
1:E:2106:ASN:C	1:E:2107:ILE:CG1	2.78	0.51
1:D:2176:ALA:HB2	1:E:2117:LEU:HD13	1.85	0.51
1:A:1864:GLY:O	1:A:1868:TYR:HB2	2.11	0.51
1:A:2331:VAL:HG11	1:A:2402:TYR:HE2	1.76	0.51
1:B:1245:LEU:HB3	1:B:1269:ILE:HB	1.92	0.51
1:B:1644:THR:HA	1:B:1689:THR:HA	1.93	0.51
1:B:2054:ALA:O	1:B:2058:ASN:ND2	2.43	0.51
1:B:2468:LYS:HD3	1:C:2327:ARG:HH11	1.75	0.51
1:C:1097:TYR:CD2	1:C:1162:ILE:HD12	2.46	0.51
1:C:1204:ARG:HH21	1:C:1210:ASN:ND2	2.08	0.51
1:C:1245:LEU:HB3	1:C:1269:ILE:HB	1.93	0.51
1:C:1821:LEU:HD22	1:C:1849:LYS:HG3	1.91	0.51
1:C:1042:GLU:OE2	1:C:1953:ASN:ND2	2.43	0.51
1:D:1042:GLU:OE2	1:D:1953:ASN:ND2	2.43	0.51
1:D:1097:TYR:CD2	1:D:1162:ILE:HD12	2.46	0.51
1:D:2168:SER:O	1:D:2171:VAL:HG12	2.11	0.51
1:E:1122:TYR:HE1	1:E:1146:LYS:HG3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1644:THR:HA	1:E:1689:THR:HA	1.93	0.51
1:B:1100:ASN:HB2	1:B:1106:GLY:HA3	1.93	0.51
1:B:2399:ARG:HE	1:B:2410:ARG:HH11	1.58	0.51
1:C:1660:TRP:HD1	1:C:1661:PHE:C	2.13	0.51
1:C:2185:TYR:HD1	1:C:2188:ARG:HD3	1.76	0.51
1:C:93:ASN:HD21	1:C:1894:PRO:CA	2.22	0.51
1:D:1226:LEU:HD12	1:D:1227:GLU:N	2.26	0.51
1:E:119:LEU:HD22	1:E:986:ILE:HB	1.93	0.51
1:E:2168:SER:O	1:E:2171:VAL:HG12	2.11	0.51
1:D:2460:PHE:HB3	1:E:2464:PHE:CE2	2.46	0.51
1:A:1249:PHE:N	1:A:1265:GLN:O	2.29	0.51
1:A:1777:MET:HE1	1:A:1852:THR:HG23	1.93	0.51
1:A:93:ASN:HD21	1:A:1894:PRO:CA	2.22	0.51
1:B:1800:TRP:CD1	1:B:1816:TRP:CE2	2.99	0.51
1:C:1226:LEU:HD12	1:C:1227:GLU:N	2.26	0.51
1:C:105:ALA:HB2	1:C:1898:LEU:HD23	1.92	0.51
1:C:2169:ALA:CB	1:D:2124:LEU:HD11	2.25	0.51
1:C:2018:ARG:HG2	1:C:2467:GLY:O	2.11	0.51
1:C:2471:PRO:HG3	1:D:2327:ARG:NE	2.26	0.51
1:D:2018:ARG:HG2	1:D:2467:GLY:O	2.11	0.51
1:A:1660:TRP:CH2	1:A:1680:GLN:HB3	2.36	0.51
1:A:2330:GLU:OE1	1:E:2458:GLY:O	2.29	0.51
1:B:1864:GLY:O	1:B:1868:TYR:HB2	2.11	0.51
1:A:115:PRO:CG	1:B:1986:TYR:CD1	2.94	0.51
1:B:2460:PHE:CE1	1:C:2512:ARG:HB3	2.46	0.51
1:D:1080:SER:HA	1:D:1083:THR:HG22	1.92	0.51
1:D:1204:ARG:HH21	1:D:1210:ASN:ND2	2.08	0.51
1:D:1864:GLY:O	1:D:1868:TYR:HB2	2.11	0.51
1:E:1080:SER:HA	1:E:1083:THR:HG22	1.92	0.51
1:E:1226:LEU:HD12	1:E:1227:GLU:N	2.26	0.51
1:E:1245:LEU:HB3	1:E:1269:ILE:HB	1.93	0.51
1:E:1604:ARG:NH1	1:E:1759:ASP:OD2	2.43	0.51
1:A:2070:ILE:HD11	1:E:2223:GLN:HA	1.92	0.51
1:A:160:SER:HA	1:A:982:LYS:CD	2.41	0.50
1:B:2018:ARG:HG2	1:B:2467:GLY:O	2.11	0.50
1:C:2168:SER:O	1:C:2171:VAL:HG12	2.11	0.50
1:C:119:LEU:HD22	1:C:986:ILE:HB	1.92	0.50
1:D:1644:THR:HA	1:D:1689:THR:HA	1.93	0.50
1:E:1097:TYR:CD2	1:E:1162:ILE:HD12	2.46	0.50
1:D:2460:PHE:CE1	1:E:2512:ARG:HB3	2.46	0.50
1:A:1226:LEU:HD12	1:A:1227:GLU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2099:TYR:CE1	1:E:2194:ILE:HG21	2.46	0.50
1:B:1016:GLN:H	1:B:1105:GLN:NE2	2.08	0.50
1:B:1103:ASN:ND2	1:B:1598:TRP:CG	2.76	0.50
1:A:2245:PHE:CD2	1:B:2044:ILE:HG21	2.47	0.50
1:B:2106:ASN:C	1:B:2107:ILE:HG12	2.31	0.50
1:B:160:SER:HA	1:B:982:LYS:CD	2.41	0.50
1:C:1660:TRP:HD1	1:C:1661:PHE:CA	2.24	0.50
1:B:2183:GLU:OE2	1:C:2111:GLU:CG	2.59	0.50
1:C:2205:GLN:N	1:D:2087:LYS:CG	2.72	0.50
1:C:2272:ARG:NH2	1:D:2318:GLU:HB3	2.26	0.50
1:D:160:SER:HA	1:D:982:LYS:CD	2.41	0.50
1:E:1800:TRP:CD1	1:E:1816:TRP:CE2	2.99	0.50
1:E:2185:TYR:HD1	1:E:2188:ARG:HD3	1.76	0.50
1:D:2449:ALA:HB2	1:E:2329:LEU:HD13	1.92	0.50
1:E:2018:ARG:HG2	1:E:2467:GLY:O	2.11	0.50
1:A:2187:ARG:NH1	1:B:2108:ASN:CG	2.64	0.50
1:B:1097:TYR:CD2	1:B:1162:ILE:HD12	2.46	0.50
1:A:2183:GLU:CG	1:B:2111:GLU:HG2	2.38	0.50
1:B:2404:ALA:C	1:B:2406:LEU:H	2.14	0.50
1:C:1800:TRP:CD1	1:C:1816:TRP:CE2	2.99	0.50
1:C:2404:ALA:C	1:C:2406:LEU:H	2.15	0.50
1:D:1122:TYR:HE1	1:D:1146:LYS:HG3	1.76	0.50
1:D:1204:ARG:NH2	1:D:1210:ASN:OD1	2.42	0.50
1:E:1975:SER:HB3	1:E:1981:LEU:HD23	1.94	0.50
1:A:2073:LYS:CE	1:E:2222:LEU:CD1	2.90	0.50
1:E:2331:VAL:HG11	1:E:2402:TYR:HE2	1.76	0.50
1:A:1034:VAL:HB	1:B:1995:LEU:HD13	1.93	0.50
1:A:2106:ASN:C	1:A:2107:ILE:HG12	2.31	0.50
1:A:2154:TRP:O	1:A:2158:ALA:HB2	2.12	0.50
1:A:2188:ARG:NH2	1:E:2187:ARG:CZ	2.75	0.50
1:A:2258:LEU:HD13	1:B:2308:GLU:OE1	2.11	0.50
1:A:2308:GLU:OE1	1:E:2258:LEU:HD13	2.10	0.50
1:C:1029:SER:HA	1:D:1989:PRO:HA	1.92	0.50
1:C:2399:ARG:HE	1:C:2410:ARG:HH11	1.58	0.50
1:D:141:ARG:HH22	1:D:1005:GLU:CD	2.14	0.50
1:D:1800:TRP:CD1	1:D:1816:TRP:CE2	2.99	0.50
1:D:105:ALA:HB2	1:D:1898:LEU:HD23	1.92	0.50
1:A:1660:TRP:HD1	1:A:1661:PHE:CA	2.25	0.50
1:A:1975:SER:HB3	1:A:1981:LEU:HD23	1.94	0.50
1:A:2172:MET:CE	1:B:2121:ALA:CB	2.90	0.50
1:A:2399:ARG:HE	1:A:2410:ARG:HH11	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1026:LYS:NZ	1:C:1878:GLU:CD	2.65	0.50
1:B:1660:TRP:HD1	1:B:1661:PHE:CA	2.24	0.50
1:B:1042:GLU:OE2	1:B:1953:ASN:ND2	2.43	0.50
1:A:2208:ALA:HB3	1:B:2084:VAL:HG22	1.91	0.50
1:C:1080:SER:HA	1:C:1083:THR:HG22	1.92	0.50
1:D:1137:ALA:C	1:D:1139:ASN:H	2.15	0.50
1:E:160:SER:HA	1:E:982:LYS:CD	2.41	0.50
1:E:2106:ASN:C	1:E:2107:ILE:HG12	2.31	0.50
1:D:2447:ALA:CB	1:E:2329:LEU:HD22	2.39	0.50
1:E:2399:ARG:HE	1:E:2410:ARG:HH11	1.58	0.50
1:A:1122:TYR:HE1	1:A:1146:LYS:HG3	1.76	0.50
1:A:2091:GLY:CA	1:E:2201:ALA:HB1	2.41	0.50
1:A:2108:ASN:CG	1:E:2187:ARG:NH1	2.65	0.50
1:B:1226:LEU:HD12	1:B:1227:GLU:N	2.26	0.50
1:A:2183:GLU:CD	1:B:2111:GLU:HG2	2.32	0.50
1:B:2272:ARG:NH2	1:C:2318:GLU:CB	2.75	0.50
1:B:2273:CYS:SG	1:B:2314:LEU:HD11	2.52	0.50
1:C:1100:ASN:HB2	1:C:1106:GLY:HA3	1.93	0.50
1:C:160:SER:HA	1:C:982:LYS:CD	2.41	0.50
1:B:2201:ALA:HB1	1:C:2091:GLY:CA	2.40	0.50
1:C:2218:GLU:OE1	1:D:2073:LYS:HB3	2.12	0.50
1:C:2460:PHE:CZ	1:D:2330:GLU:CG	2.92	0.50
1:D:2430:GLN:HB2	1:D:2497:GLN:HE22	1.77	0.50
1:E:1100:ASN:HB2	1:E:1106:GLY:HA3	1.93	0.50
1:A:2111:GLU:CG	1:E:2183:GLU:OE2	2.59	0.50
1:E:2273:CYS:SG	1:E:2314:LEU:HD11	2.52	0.50
1:A:119:LEU:HD22	1:A:986:ILE:HB	1.92	0.50
1:A:1245:LEU:HB3	1:A:1269:ILE:HB	1.93	0.50
1:B:105:ALA:HB2	1:B:1898:LEU:HD23	1.92	0.50
1:B:2168:SER:O	1:B:2171:VAL:HG12	2.11	0.50
1:B:2280:TYR:CE1	1:B:2284:LEU:HD22	2.47	0.50
1:C:1975:SER:HB3	1:C:1981:LEU:HD23	1.94	0.50
1:D:1245:LEU:HB3	1:D:1269:ILE:HB	1.92	0.50
1:E:1137:ALA:C	1:E:1139:ASN:H	2.15	0.50
1:E:1204:ARG:NH2	1:E:1210:ASN:OD1	2.42	0.50
1:E:2154:TRP:O	1:E:2158:ALA:HB2	2.12	0.50
1:A:2512:ARG:HB3	1:E:2460:PHE:CE1	2.47	0.50
1:A:2185:TYR:HD1	1:A:2188:ARG:HD3	1.76	0.50
1:A:2018:ARG:HG2	1:A:2467:GLY:O	2.11	0.50
1:B:1122:TYR:HE1	1:B:1146:LYS:HG3	1.76	0.50
1:C:2253:TRP:CE2	1:D:2301:TYR:CE2	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2273:CYS:SG	1:C:2314:LEU:HD11	2.52	0.50
1:D:1174:GLN:NE2	1:D:1196:TYR:HA	2.27	0.50
1:A:1026:LYS:NZ	1:B:1878:GLU:CD	2.65	0.50
1:A:2099:TYR:OH	1:E:2194:ILE:CG2	2.49	0.50
1:A:2318:GLU:CB	1:E:2272:ARG:NH2	2.74	0.50
1:A:2468:LYS:HD3	1:B:2327:ARG:NH1	2.23	0.50
1:B:119:LEU:HD22	1:B:986:ILE:HB	1.92	0.50
1:B:2154:TRP:O	1:B:2158:ALA:HB2	2.12	0.50
1:B:2183:GLU:CG	1:C:2111:GLU:HG2	2.40	0.50
1:B:2222:LEU:HD12	1:C:2073:LYS:CD	2.32	0.50
1:B:2222:LEU:CD1	1:C:2073:LYS:CE	2.90	0.50
1:C:2280:TYR:CE1	1:C:2284:LEU:HD22	2.47	0.50
1:B:2258:LEU:HD13	1:C:2308:GLU:OE1	2.12	0.50
1:D:1897:PRO:O	1:D:1899:SER:OG	2.26	0.50
1:D:981:ILE:HD12	1:E:1973:ASN:HB2	1.94	0.50
1:E:1174:GLN:NE2	1:E:1196:TYR:HA	2.27	0.50
1:E:121:GLU:HA	1:E:124:ARG:HG2	1.94	0.50
1:E:1864:GLY:O	1:E:1868:TYR:HB2	2.11	0.50
1:E:2374:ASN:OD1	1:E:2374:ASN:N	2.40	0.50
1:A:121:GLU:HA	1:A:124:ARG:HG2	1.94	0.49
1:B:2223:GLN:HA	1:C:2070:ILE:HD11	1.93	0.49
1:B:2218:GLU:OE1	1:C:2073:LYS:HB3	2.12	0.49
1:D:118:TYR:OH	1:D:1025:ASN:O	2.27	0.49
1:D:2185:TYR:HD1	1:D:2188:ARG:HD3	1.76	0.49
1:D:2404:ALA:C	1:D:2406:LEU:H	2.15	0.49
1:A:2073:LYS:HB3	1:E:2218:GLU:OE1	2.12	0.49
1:A:2073:LYS:HE2	1:E:2222:LEU:HD11	1.94	0.49
1:A:1204:ARG:NH2	1:A:1210:ASN:OD1	2.42	0.49
1:A:124:ARG:HH12	1:A:1913:ILE:HA	1.77	0.49
1:B:2430:GLN:HB2	1:B:2497:GLN:HE22	1.77	0.49
1:C:1098:HIS:HE1	1:C:1128:HIS:CD2	2.30	0.49
1:C:1174:GLN:NE2	1:C:1196:TYR:HA	2.27	0.49
1:C:1864:GLY:O	1:C:1868:TYR:HB2	2.11	0.49
1:D:1098:HIS:HE1	1:D:1128:HIS:CD2	2.30	0.49
1:D:2154:TRP:O	1:D:2158:ALA:HB2	2.12	0.49
1:D:2216:ARG:CA	1:E:2077:GLU:OE1	2.60	0.49
1:D:92:TYR:C	1:D:92:TYR:CD2	2.86	0.49
1:E:1133:ASP:O	1:E:1135:LYS:N	2.46	0.49
1:E:2404:ALA:C	1:E:2406:LEU:H	2.15	0.49
1:A:2272:ARG:NH2	1:B:2318:GLU:CB	2.75	0.49
1:C:2054:ALA:O	1:C:2058:ASN:ND2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2187:ARG:NH1	1:D:2108:ASN:CG	2.65	0.49
1:D:2280:TYR:CE1	1:D:2284:LEU:HD22	2.47	0.49
1:A:1100:ASN:HB2	1:A:1106:GLY:HA3	1.93	0.49
1:A:2168:SER:O	1:A:2171:VAL:HG12	2.11	0.49
1:A:2273:CYS:SG	1:A:2314:LEU:HD11	2.52	0.49
1:C:1132:ASN:HD21	1:C:1830:ASP:CG	2.16	0.49
1:C:1133:ASP:O	1:C:1135:LYS:N	2.46	0.49
1:C:2154:TRP:O	1:C:2158:ALA:HB2	2.12	0.49
1:C:2331:VAL:HG11	1:C:2402:TYR:HE2	1.76	0.49
1:C:2204:LYS:C	1:D:2087:LYS:HG2	2.30	0.49
1:E:1122:TYR:HB3	1:E:1144:TRP:HB3	1.95	0.49
1:E:2280:TYR:CE1	1:E:2284:LEU:HD22	2.47	0.49
1:A:1132:ASN:HD21	1:A:1830:ASP:CG	2.16	0.49
1:A:2404:ALA:C	1:A:2406:LEU:H	2.15	0.49
1:A:2460:PHE:HB3	1:B:2464:PHE:CE2	2.47	0.49
1:A:2430:GLN:HB2	1:A:2497:GLN:HE22	1.77	0.49
1:B:1133:ASP:O	1:B:1135:LYS:N	2.45	0.49
1:B:1137:ALA:C	1:B:1139:ASN:H	2.15	0.49
1:B:2205:GLN:N	1:C:2087:LYS:CG	2.74	0.49
1:C:2215:VAL:O	1:C:2218:GLU:HB3	2.13	0.49
1:C:92:TYR:C	1:C:92:TYR:CD2	2.86	0.49
1:D:1642:TYR:HH	1:D:1689:THR:HG1	1.61	0.49
1:E:1646:VAL:HG22	1:E:1687:ASN:HA	1.95	0.49
1:D:2245:PHE:CD2	1:E:2044:ILE:HG21	2.47	0.49
1:A:1137:ALA:C	1:A:1139:ASN:H	2.15	0.49
1:B:1160:PRO:HA	1:B:1169:LEU:HA	1.95	0.49
1:C:1137:ALA:C	1:C:1139:ASN:H	2.15	0.49
1:A:1809:GLY:N	1:E:1244:THR:HG21	2.28	0.49
1:A:2327:ARG:HH11	1:E:2468:LYS:CD	2.26	0.49
1:A:1122:TYR:HB3	1:A:1144:TRP:HB3	1.95	0.49
1:A:1646:VAL:HG22	1:A:1687:ASN:HA	1.95	0.49
1:A:2183:GLU:OE2	1:B:2111:GLU:CD	2.50	0.49
1:A:2365:SER:HA	1:A:2377:PHE:CD2	2.48	0.49
1:A:92:TYR:C	1:A:92:TYR:CD2	2.85	0.49
1:B:1098:HIS:HE1	1:B:1128:HIS:CD2	2.30	0.49
1:B:1174:GLN:NE2	1:B:1196:TYR:HA	2.27	0.49
1:A:1244:THR:HG21	1:B:1809:GLY:N	2.27	0.49
1:B:1975:SER:HB3	1:B:1981:LEU:HD23	1.94	0.49
1:B:2185:TYR:HD1	1:B:2188:ARG:HD3	1.76	0.49
1:B:92:TYR:C	1:B:92:TYR:CD2	2.86	0.49
1:C:1160:PRO:HA	1:C:1169:LEU:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1100:ASN:OD1	1:D:1101:ILE:N	2.46	0.49
1:D:2273:CYS:SG	1:D:2314:LEU:HD11	2.52	0.49
1:D:2331:VAL:HG11	1:D:2402:TYR:HE2	1.76	0.49
1:E:1112:GLY:N	1:E:1122:TYR:O	2.31	0.49
1:A:1996:LEU:CD1	1:E:1837:PRO:HG3	2.42	0.49
1:D:2187:ARG:NH1	1:E:2108:ASN:CG	2.66	0.49
1:A:1072:ASP:HB2	1:E:1204:ARG:CZ	2.42	0.49
1:A:1098:HIS:HE1	1:A:1128:HIS:CD2	2.30	0.49
1:A:1133:ASP:O	1:A:1135:LYS:N	2.46	0.49
1:A:1174:GLN:NE2	1:A:1196:TYR:HA	2.27	0.49
1:A:2215:VAL:O	1:A:2218:GLU:HB3	2.13	0.49
1:A:2280:TYR:CE1	1:A:2284:LEU:HD22	2.47	0.49
1:A:2329:LEU:HD13	1:E:2449:ALA:HB2	1.93	0.49
1:B:1676:ILE:HG13	1:B:1677:TYR:N	2.28	0.49
1:B:2365:SER:HA	1:B:2377:PHE:CD2	2.48	0.49
1:C:1676:ILE:HG13	1:C:1677:TYR:N	2.28	0.49
1:B:115:PRO:CG	1:C:1986:TYR:CD1	2.96	0.49
1:C:2272:ARG:HH22	1:D:2318:GLU:HB3	1.77	0.49
1:D:1640:GLY:HA3	1:D:1691:PHE:CZ	2.48	0.49
1:D:1660:TRP:CH2	1:D:1680:GLN:HB3	2.36	0.49
1:A:1160:PRO:HA	1:A:1169:LEU:HA	1.95	0.49
1:A:2179:ILE:HG21	1:B:2114:ALA:H	1.73	0.49
1:A:2266:TYR:CZ	1:A:2297:TRP:HB2	2.48	0.49
1:A:2468:LYS:HD3	1:B:2327:ARG:HH11	1.78	0.49
1:B:1640:GLY:HA3	1:B:1691:PHE:CZ	2.48	0.49
1:B:1711:PHE:H	1:B:1715:PRO:HG3	1.78	0.49
1:C:1640:GLY:HA3	1:C:1691:PHE:CZ	2.48	0.49
1:C:2464:PHE:HZ	1:C:2512:ARG:HH11	1.61	0.49
1:D:1133:ASP:O	1:D:1135:LYS:N	2.46	0.49
1:D:1646:VAL:HG22	1:D:1687:ASN:HA	1.95	0.49
1:D:2266:TYR:CZ	1:D:2297:TRP:HB2	2.48	0.49
1:B:1204:ARG:HD2	1:B:1210:ASN:OD1	2.13	0.49
1:C:1199:LYS:HA	1:C:1213:ILE:O	2.13	0.49
1:C:1706:LYS:NZ	1:C:1720:TRP:O	2.33	0.49
1:B:2222:LEU:CD1	1:C:2073:LYS:HD2	2.32	0.49
1:B:2447:ALA:CB	1:C:2329:LEU:HD22	2.41	0.49
1:C:2460:PHE:HB3	1:D:2464:PHE:HE2	1.78	0.49
1:C:899:GLY:O	1:C:908:GLU:HG2	2.13	0.49
1:C:1205:TYR:CD2	1:D:1068:GLN:NE2	2.81	0.49
1:D:1205:TYR:CD2	1:E:1068:GLN:NE2	2.80	0.49
1:D:2215:VAL:O	1:D:2218:GLU:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2399:ARG:HE	1:D:2410:ARG:HH11	1.58	0.49
1:E:1098:HIS:HE1	1:E:1128:HIS:CD2	2.30	0.49
1:E:2266:TYR:CZ	1:E:2297:TRP:HB2	2.48	0.49
1:D:2272:ARG:NH2	1:E:2318:GLU:HB3	2.28	0.49
1:A:1002:GLU:CG	1:B:1882:TRP:HH2	2.25	0.48
1:A:1100:ASN:OD1	1:A:1101:ILE:N	2.46	0.48
1:A:1204:ARG:HD2	1:A:1210:ASN:OD1	2.13	0.48
1:A:2073:LYS:HD2	1:E:2222:LEU:CD1	2.32	0.48
1:B:1172:LEU:HB3	1:B:1198:LEU:HB3	1.95	0.48
1:B:2266:TYR:CZ	1:B:2297:TRP:HB2	2.48	0.48
1:C:1172:LEU:HB3	1:C:1198:LEU:HB3	1.95	0.48
1:C:1646:VAL:HG22	1:C:1687:ASN:HA	1.95	0.48
1:C:2365:SER:HA	1:C:2377:PHE:CD2	2.48	0.48
1:D:1122:TYR:HB3	1:D:1144:TRP:HB3	1.95	0.48
1:D:1975:SER:HB3	1:D:1981:LEU:HD23	1.94	0.48
1:D:2272:ARG:HH22	1:E:2318:GLU:HB3	1.77	0.48
1:D:2365:SER:HA	1:D:2377:PHE:CD2	2.48	0.48
1:E:1640:GLY:HA3	1:E:1691:PHE:CZ	2.48	0.48
1:A:2044:ILE:HG21	1:E:2245:PHE:CD2	2.48	0.48
1:A:1640:GLY:HA3	1:A:1691:PHE:CZ	2.48	0.48
1:A:1676:ILE:HG13	1:A:1677:TYR:N	2.28	0.48
1:A:1750:LEU:HB3	1:A:1753:ILE:HD12	1.96	0.48
1:C:121:GLU:HA	1:C:124:ARG:HG2	1.94	0.48
1:C:2425:PRO:HA	1:C:2426:TYR:HA	1.56	0.48
1:B:2460:PHE:HB3	1:C:2464:PHE:CE2	2.48	0.48
1:D:1204:ARG:HD2	1:D:1210:ASN:OD1	2.13	0.48
1:C:1269:ILE:C	1:D:1808:HIS:HE1	2.15	0.48
1:E:1199:LYS:HA	1:E:1213:ILE:O	2.13	0.48
1:E:1204:ARG:HD2	1:E:1210:ASN:OD1	2.13	0.48
1:E:124:ARG:HH12	1:E:1913:ILE:HA	1.77	0.48
1:E:1711:PHE:H	1:E:1715:PRO:HG3	1.78	0.48
1:D:2222:LEU:CD1	1:E:2073:LYS:HD2	2.30	0.48
1:D:2183:GLU:CD	1:E:2111:GLU:HG2	2.34	0.48
1:E:2365:SER:HA	1:E:2377:PHE:CD2	2.48	0.48
1:B:1204:ARG:CZ	1:C:1072:ASP:HB2	2.42	0.48
1:B:1205:TYR:CD2	1:C:1068:GLN:NE2	2.80	0.48
1:B:2089:LYS:HA	1:B:2206:ILE:HD13	1.95	0.48
1:D:1160:PRO:HA	1:D:1169:LEU:HA	1.95	0.48
1:D:1199:LYS:HA	1:D:1213:ILE:O	2.13	0.48
1:D:1676:ILE:HG13	1:D:1677:TYR:N	2.28	0.48
1:D:1758:MET:O	1:D:1819:ARG:NH1	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:899:GLY:O	1:D:908:GLU:HG2	2.13	0.48
1:E:1100:ASN:OD1	1:E:1101:ILE:N	2.46	0.48
1:E:1642:TYR:HH	1:E:1689:THR:HG1	1.61	0.48
1:E:899:GLY:O	1:E:908:GLU:HG2	2.13	0.48
1:A:1205:TYR:CD2	1:B:1068:GLN:NE2	2.81	0.48
1:A:1161:VAL:HG21	1:A:1245:LEU:HD11	1.96	0.48
1:A:2460:PHE:CE1	1:B:2512:ARG:HB3	2.48	0.48
1:A:899:GLY:O	1:A:908:GLU:HG2	2.13	0.48
1:B:1050:ARG:NH1	1:B:1770:GLU:HG2	2.29	0.48
1:A:981:ILE:HD12	1:B:1973:ASN:HB2	1.96	0.48
1:C:1034:VAL:HB	1:D:1995:LEU:HD13	1.95	0.48
1:C:1204:ARG:HD2	1:C:1210:ASN:OD1	2.13	0.48
1:C:1665:ILE:O	1:C:1674:HIS:HB3	2.14	0.48
1:C:1750:LEU:HB3	1:C:1753:ILE:HD12	1.96	0.48
1:C:2448:LEU:HG	1:C:2458:GLY:H	1.79	0.48
1:D:1172:LEU:HB3	1:D:1198:LEU:HB3	1.95	0.48
1:E:1676:ILE:HG13	1:E:1677:TYR:N	2.28	0.48
1:E:2215:VAL:O	1:E:2218:GLU:HB3	2.13	0.48
1:A:1050:ARG:NH1	1:A:1770:GLU:HG2	2.29	0.48
1:A:1721:TRP:HA	1:A:1739:SER:OG	2.14	0.48
1:A:2089:LYS:HA	1:A:2206:ILE:HD13	1.95	0.48
1:B:1100:ASN:OD1	1:B:1101:ILE:N	2.46	0.48
1:B:1122:TYR:HB3	1:B:1144:TRP:HB3	1.95	0.48
1:B:1199:LYS:HA	1:B:1213:ILE:O	2.13	0.48
1:B:1665:ILE:O	1:B:1674:HIS:HB3	2.14	0.48
1:B:124:ARG:HH12	1:B:1913:ILE:HA	1.77	0.48
1:C:2266:TYR:CZ	1:C:2297:TRP:HB2	2.48	0.48
1:C:2430:GLN:HB2	1:C:2497:GLN:HE22	1.77	0.48
1:C:2459:GLN:HE22	1:C:2471:PRO:CD	2.24	0.48
1:D:1050:ARG:NH1	1:D:1770:GLU:HG2	2.29	0.48
1:D:1665:ILE:O	1:D:1674:HIS:HB3	2.14	0.48
1:D:2365:SER:HA	1:D:2377:PHE:HD2	1.79	0.48
1:D:2208:ALA:HB3	1:E:2084:VAL:HG22	1.91	0.48
1:E:92:TYR:C	1:E:92:TYR:CD2	2.86	0.48
1:A:1126:VAL:HA	1:A:1140:ALA:O	2.14	0.48
1:A:1616:ARG:HD3	1:A:1629:THR:HG23	1.96	0.48
1:A:2187:ARG:NH1	1:B:2108:ASN:OD1	2.47	0.48
1:B:121:GLU:HA	1:B:124:ARG:HG2	1.94	0.48
1:B:1616:ARG:HD3	1:B:1629:THR:HG23	1.96	0.48
1:B:1646:VAL:HG22	1:B:1687:ASN:HA	1.95	0.48
1:B:1750:LEU:HB3	1:B:1753:ILE:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1787:GLN:OE1	1:B:2011:GLU:CD	2.52	0.48
1:B:2365:SER:HA	1:B:2377:PHE:HD2	1.79	0.48
1:B:2448:LEU:HG	1:B:2458:GLY:H	1.79	0.48
1:B:2464:PHE:HZ	1:B:2512:ARG:HH11	1.61	0.48
1:C:2468:LYS:HD3	1:D:2327:ARG:HH11	1.79	0.48
1:D:1161:VAL:HG21	1:D:1245:LEU:HD11	1.96	0.48
1:D:2253:TRP:CE2	1:E:2301:TYR:CE2	3.02	0.48
1:E:1588:HIS:HD2	1:E:1594:GLN:HG2	1.79	0.48
1:E:1893:LYS:HB2	1:E:1960:TRP:CD1	2.49	0.48
1:E:2430:GLN:HB2	1:E:2497:GLN:HE22	1.77	0.48
1:A:1665:ILE:O	1:A:1674:HIS:HB3	2.14	0.48
1:A:1837:PRO:HG3	1:B:1996:LEU:CD1	2.43	0.48
1:B:899:GLY:O	1:B:908:GLU:HG2	2.13	0.48
1:B:1034:VAL:HB	1:C:1995:LEU:HD13	1.95	0.48
1:C:1787:GLN:OE1	1:C:2011:GLU:CD	2.52	0.48
1:D:1750:LEU:HB3	1:D:1753:ILE:HD12	1.96	0.48
1:D:1837:PRO:HG3	1:E:1996:LEU:CD1	2.44	0.48
1:C:2245:PHE:CD2	1:D:2044:ILE:HG21	2.48	0.48
1:D:2075:ILE:HD12	1:D:2224:LYS:HE3	1.96	0.48
1:E:1160:PRO:HA	1:E:1169:LEU:HA	1.95	0.48
1:E:1616:ARG:HD3	1:E:1629:THR:HG23	1.96	0.48
1:A:2425:PRO:HA	1:A:2426:TYR:HA	1.56	0.48
1:B:1132:ASN:HD21	1:B:1830:ASP:CG	2.16	0.48
1:B:1721:TRP:HA	1:B:1739:SER:OG	2.13	0.48
1:B:2222:LEU:HD11	1:C:2073:LYS:HE2	1.94	0.48
1:C:1126:VAL:HA	1:C:1140:ALA:O	2.14	0.48
1:C:1050:ARG:HH12	1:C:1770:GLU:HG2	1.79	0.48
1:D:1893:LYS:HB2	1:D:1960:TRP:CD1	2.49	0.48
1:E:1827:TRP:HZ3	1:E:1847:HIS:NE2	2.12	0.48
1:D:2468:LYS:HD3	1:E:2327:ARG:HH11	1.78	0.48
1:A:1199:LYS:HA	1:A:1213:ILE:O	2.13	0.48
1:A:1098:HIS:HB3	1:A:1304:ASN:HB3	1.96	0.48
1:A:1787:GLN:OE1	1:A:2011:GLU:CD	2.52	0.48
1:A:1967:VAL:HA	1:A:1970:LEU:HD13	1.96	0.48
1:A:2459:GLN:HE22	1:A:2471:PRO:CD	2.24	0.48
1:B:1050:ARG:HH12	1:B:1770:GLU:HG2	1.79	0.48
1:B:2215:VAL:O	1:B:2218:GLU:HB3	2.13	0.48
1:C:2179:ILE:HG21	1:D:2114:ALA:H	1.75	0.48
1:C:2183:GLU:CD	1:D:2111:GLU:HG2	2.34	0.48
1:D:1616:ARG:HD3	1:D:1629:THR:HG23	1.96	0.48
1:C:2253:TRP:CE2	1:D:2301:TYR:CD2	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1665:ILE:O	1:E:1674:HIS:HB3	2.14	0.48
1:E:1721:TRP:HA	1:E:1739:SER:OG	2.14	0.48
1:A:2073:LYS:CD	1:E:2222:LEU:HD12	2.32	0.48
1:A:2172:MET:HE2	1:B:2121:ALA:CB	2.43	0.48
1:B:1967:VAL:HA	1:B:1970:LEU:HD13	1.96	0.48
1:C:1711:PHE:H	1:C:1715:PRO:HG3	1.78	0.48
1:C:124:ARG:HH12	1:C:1913:ILE:HA	1.77	0.48
1:D:1711:PHE:H	1:D:1715:PRO:HG3	1.78	0.48
1:D:2172:MET:CE	1:E:2120:SER:C	2.82	0.48
1:E:1126:VAL:HA	1:E:1140:ALA:O	2.14	0.48
1:E:1172:LEU:HB3	1:E:1198:LEU:HB3	1.95	0.48
1:D:1269:ILE:C	1:E:1808:HIS:HE1	2.16	0.48
1:A:2448:LEU:HG	1:A:2458:GLY:H	1.79	0.47
1:B:1795:TRP:HA	1:B:1798:TYR:CD2	2.49	0.47
1:B:2016:LEU:HD11	1:C:2327:ARG:HB2	1.96	0.47
1:C:1100:ASN:OD1	1:C:1101:ILE:N	2.46	0.47
1:C:1122:TYR:HB3	1:C:1144:TRP:HB3	1.95	0.47
1:C:1783:LEU:HD23	1:C:1783:LEU:HA	1.69	0.47
1:C:2089:LYS:HA	1:C:2206:ILE:HD13	1.95	0.47
1:C:195:SER:C	1:C:952:ARG:HH22	2.17	0.47
1:D:1098:HIS:HB3	1:D:1304:ASN:HB3	1.96	0.47
1:D:1721:TRP:HA	1:D:1739:SER:OG	2.14	0.47
1:D:1050:ARG:HH12	1:D:1770:GLU:HG2	1.79	0.47
1:C:2216:ARG:CA	1:D:2077:GLU:OE1	2.62	0.47
1:D:2089:LYS:HA	1:D:2206:ILE:HD13	1.95	0.47
1:C:2460:PHE:CB	1:D:2464:PHE:HE2	2.27	0.47
1:E:1787:GLN:OE1	1:E:2011:GLU:CD	2.52	0.47
1:E:2155:GLY:O	1:E:2159:GLU:HG3	2.14	0.47
1:A:1878:GLU:OE1	1:E:1026:LYS:NZ	2.46	0.47
1:A:2253:TRP:CE2	1:B:2301:TYR:CE2	3.02	0.47
1:B:1126:VAL:HA	1:B:1140:ALA:O	2.14	0.47
1:B:1098:HIS:HB3	1:B:1304:ASN:HB3	1.96	0.47
1:A:2172:MET:HE1	1:B:2121:ALA:N	2.22	0.47
1:A:2272:ARG:HH22	1:B:2318:GLU:HB3	1.79	0.47
1:B:2459:GLN:HE22	1:B:2471:PRO:CD	2.24	0.47
1:B:195:SER:C	1:B:952:ARG:HH22	2.17	0.47
1:C:1795:TRP:HA	1:C:1798:TYR:CD2	2.49	0.47
1:B:1244:THR:HG21	1:C:1809:GLY:N	2.29	0.47
1:C:2026:ALA:O	1:C:2029:MET:HB3	2.14	0.47
1:B:2172:MET:HE1	1:C:2121:ALA:N	2.24	0.47
1:D:1132:ASN:HD21	1:D:1830:ASP:CG	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1588:HIS:HD2	1:D:1594:GLN:HG2	1.79	0.47
1:D:1787:GLN:OE1	1:D:2011:GLU:CD	2.52	0.47
1:D:2026:ALA:O	1:D:2029:MET:HB3	2.14	0.47
1:D:2448:LEU:HG	1:D:2458:GLY:H	1.79	0.47
1:D:2471:PRO:HG3	1:E:2327:ARG:NE	2.27	0.47
1:E:1663:LEU:HA	1:E:1709:MET:HA	1.96	0.47
1:E:1727:ARG:HA	1:E:1733:VAL:HG22	1.96	0.47
1:E:1750:LEU:HB3	1:E:1753:ILE:HD12	1.96	0.47
1:E:1841:ALA:O	1:E:1843:HIS:N	2.44	0.47
1:E:2089:LYS:HA	1:E:2206:ILE:HD13	1.95	0.47
1:E:2459:GLN:HE22	1:E:2471:PRO:CD	2.24	0.47
1:A:1834:SER:O	1:A:1835:VAL:HG12	2.14	0.47
1:A:2026:ALA:O	1:A:2029:MET:HB3	2.14	0.47
1:A:1270:PHE:HB3	1:B:1808:HIS:HB2	1.36	0.47
1:B:1834:SER:O	1:B:1835:VAL:HG12	2.15	0.47
1:C:1161:VAL:HG21	1:C:1245:LEU:HD11	1.96	0.47
1:B:1270:PHE:HB3	1:C:1808:HIS:HB2	1.37	0.47
1:D:125:GLU:HG3	1:D:1017:PHE:CG	2.49	0.47
1:D:1834:SER:O	1:D:1835:VAL:HG12	2.15	0.47
1:D:2155:GLY:O	1:D:2159:GLU:HG3	2.14	0.47
1:D:2281:ARG:HB3	1:D:2287:ASP:HA	1.96	0.47
1:D:2459:GLN:HE22	1:D:2471:PRO:CD	2.24	0.47
1:D:934:LEU:O	1:D:938:LEU:HB3	2.15	0.47
1:A:2327:ARG:HB2	1:E:2016:LEU:HD12	1.96	0.47
1:A:2114:ALA:H	1:E:2179:ILE:HG21	1.77	0.47
1:A:1893:LYS:HB2	1:A:1960:TRP:CD1	2.49	0.47
1:A:2120:SER:C	1:E:2172:MET:HE1	2.35	0.47
1:A:2155:GLY:O	1:A:2159:GLU:HG3	2.14	0.47
1:A:1269:ILE:C	1:B:1808:HIS:HE1	2.17	0.47
1:B:2013:PHE:HB3	1:B:2014:MET:H	1.51	0.47
1:B:2179:ILE:HG21	1:C:2114:ALA:H	1.75	0.47
1:C:1721:TRP:HA	1:C:1739:SER:OG	2.14	0.47
1:C:1050:ARG:NH1	1:C:1770:GLU:HG2	2.29	0.47
1:C:1893:LYS:HB2	1:C:1960:TRP:CD1	2.49	0.47
1:D:1126:VAL:HA	1:D:1140:ALA:O	2.14	0.47
1:D:121:GLU:HA	1:D:124:ARG:HG2	1.94	0.47
1:C:2013:PHE:CE1	1:D:2323:LYS:HG2	2.48	0.47
1:E:195:SER:C	1:E:952:ARG:HH22	2.17	0.47
1:E:2281:ARG:HB3	1:E:2287:ASP:HA	1.96	0.47
1:E:2365:SER:HA	1:E:2377:PHE:HD2	1.79	0.47
1:A:2464:PHE:CE2	1:E:2460:PHE:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1050:ARG:HH12	1:A:1770:GLU:HG2	1.79	0.47
1:A:1172:LEU:HB3	1:A:1198:LEU:HB3	1.95	0.47
1:A:1727:ARG:HA	1:A:1733:VAL:HG22	1.96	0.47
1:A:2365:SER:HA	1:A:2377:PHE:HD2	1.79	0.47
1:B:1196:TYR:N	1:B:1218:ASN:OD1	2.41	0.47
1:B:1660:TRP:NE1	1:B:1661:PHE:O	2.47	0.47
1:B:2281:ARG:HB3	1:B:2287:ASP:HA	1.96	0.47
1:C:2253:TRP:NE1	1:D:2301:TYR:CE2	2.83	0.47
1:B:2272:ARG:NH2	1:C:2318:GLU:HB3	2.30	0.47
1:D:2464:PHE:HZ	1:D:2512:ARG:HH11	1.61	0.47
1:E:1795:TRP:HA	1:E:1798:TYR:CD2	2.49	0.47
1:E:1967:VAL:HA	1:E:1970:LEU:HD13	1.96	0.47
1:A:1235:TYR:CE2	1:A:1237:ALA:HB2	2.50	0.47
1:A:1711:PHE:H	1:A:1715:PRO:HG3	1.78	0.47
1:A:2142:PRO:HA	1:A:2143:ASN:HA	1.72	0.47
1:A:2172:MET:CE	1:B:2120:SER:C	2.81	0.47
1:A:2016:LEU:CD2	1:A:2468:LYS:HG3	2.45	0.47
1:A:999:ARG:HE	1:A:1004:VAL:HG21	1.79	0.47
1:B:1060:LEU:HD12	1:B:1081:TYR:HB2	1.96	0.47
1:B:2016:LEU:CD2	1:B:2468:LYS:HG3	2.44	0.47
1:C:1616:ARG:HD3	1:C:1629:THR:HG23	1.96	0.47
1:C:1897:PRO:O	1:C:1899:SER:OG	2.26	0.47
1:C:2075:ILE:HD12	1:C:2224:LYS:HE3	1.96	0.47
1:D:1204:ARG:CZ	1:E:1072:ASP:HB2	2.44	0.47
1:C:1270:PHE:HB3	1:D:1808:HIS:HB2	1.35	0.47
1:D:124:ARG:HH12	1:D:1913:ILE:HA	1.77	0.47
1:D:2054:ALA:O	1:D:2058:ASN:ND2	2.43	0.47
1:D:2016:LEU:CD2	1:D:2468:LYS:HG3	2.45	0.47
1:A:1795:TRP:HA	1:A:1798:TYR:CD2	2.50	0.47
1:A:2075:ILE:HD12	1:A:2224:LYS:HE3	1.96	0.47
1:A:2464:PHE:HZ	1:A:2512:ARG:HH11	1.61	0.47
1:B:1161:VAL:HG21	1:B:1245:LEU:HD11	1.96	0.47
1:B:1727:ARG:HA	1:B:1733:VAL:HG22	1.97	0.47
1:B:2075:ILE:HD12	1:B:2224:LYS:HE3	1.96	0.47
1:C:1112:GLY:N	1:C:1122:TYR:O	2.31	0.47
1:B:2187:ARG:NH1	1:C:2108:ASN:CG	2.67	0.47
1:C:2016:LEU:CD2	1:C:2468:LYS:HG3	2.44	0.47
1:C:999:ARG:HE	1:C:1004:VAL:HG21	1.80	0.47
1:D:1827:TRP:HZ3	1:D:1847:HIS:NE2	2.12	0.47
1:E:125:GLU:HG3	1:E:1017:PHE:CG	2.49	0.47
1:E:2075:ILE:HD12	1:E:2224:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2464:PHE:HZ	1:E:2512:ARG:HH11	1.61	0.47
1:A:2329:LEU:HD22	1:E:2447:ALA:CB	2.42	0.47
1:B:2155:GLY:O	1:B:2159:GLU:HG3	2.14	0.47
1:B:2460:PHE:CE2	1:C:2330:GLU:HG3	2.44	0.47
1:C:1594:GLN:HG3	1:C:1606:ASN:ND2	2.30	0.47
1:C:1967:VAL:HA	1:C:1970:LEU:HD13	1.96	0.47
1:C:2365:SER:HA	1:C:2377:PHE:HD2	1.79	0.47
1:E:1018:PHE:HA	1:E:1021:TRP:HB2	1.97	0.47
1:D:1026:LYS:NZ	1:E:1878:GLU:OE1	2.47	0.47
1:E:2026:ALA:O	1:E:2029:MET:HB3	2.14	0.47
1:E:2448:LEU:HG	1:E:2458:GLY:H	1.79	0.47
1:E:2016:LEU:CD2	1:E:2468:LYS:HG3	2.45	0.47
1:E:934:LEU:O	1:E:938:LEU:HB3	2.15	0.47
1:E:999:ARG:HE	1:E:1004:VAL:HG21	1.80	0.47
1:A:2281:ARG:HB3	1:A:2287:ASP:HA	1.96	0.47
1:A:934:LEU:O	1:A:938:LEU:HB3	2.15	0.47
1:B:125:GLU:HG3	1:B:1017:PHE:CG	2.49	0.47
1:C:125:GLU:HG3	1:C:1017:PHE:CG	2.49	0.47
1:C:1098:HIS:HB3	1:C:1304:ASN:HB3	1.96	0.47
1:C:1663:LEU:HA	1:C:1709:MET:HA	1.97	0.47
1:B:1837:PRO:HG3	1:C:1996:LEU:CD1	2.45	0.47
1:B:2245:PHE:CD2	1:C:2044:ILE:HG21	2.50	0.47
1:C:2155:GLY:O	1:C:2159:GLU:HG3	2.14	0.47
1:D:1018:PHE:HA	1:D:1021:TRP:HB2	1.97	0.47
1:D:1060:LEU:HD12	1:D:1081:TYR:HB2	1.96	0.47
1:D:195:SER:C	1:D:952:ARG:HH22	2.17	0.47
1:E:1050:ARG:NH1	1:E:1770:GLU:HG2	2.29	0.47
1:D:2460:PHE:HB3	1:E:2464:PHE:HE2	1.80	0.47
1:A:1291:TYR:HA	1:A:1294:PHE:CE2	2.50	0.47
1:A:1827:TRP:HZ3	1:A:1847:HIS:NE2	2.12	0.47
1:B:1893:LYS:HB2	1:B:1960:TRP:CD1	2.49	0.47
1:B:2434:SER:HB3	1:B:2483:THR:CG2	2.45	0.47
1:B:999:ARG:HE	1:B:1004:VAL:HG21	1.79	0.47
1:D:1795:TRP:HA	1:D:1798:TYR:CD2	2.50	0.47
1:E:1161:VAL:HG21	1:E:1245:LEU:HD11	1.96	0.47
1:E:1098:HIS:HB3	1:E:1304:ASN:HB3	1.96	0.47
1:E:1660:TRP:HD1	1:E:1661:PHE:CA	2.25	0.47
1:E:1660:TRP:NE1	1:E:1661:PHE:O	2.47	0.47
1:D:1002:GLU:OE1	1:E:1885:GLN:OE1	2.32	0.47
1:A:1660:TRP:NE1	1:A:1661:PHE:O	2.47	0.47
1:A:2077:GLU:OE1	1:E:2216:ARG:CA	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2500:MET:O	1:A:2503:THR:N	2.48	0.47
1:B:2016:LEU:HD12	1:C:2327:ARG:HB2	1.96	0.47
1:C:1060:LEU:HD12	1:C:1081:TYR:HB2	1.96	0.47
1:C:1204:ARG:CZ	1:D:1072:ASP:HB2	2.44	0.47
1:C:1834:SER:O	1:C:1835:VAL:HG12	2.15	0.47
1:D:1235:TYR:CE2	1:D:1237:ALA:HB2	2.50	0.47
1:D:1975:SER:OG	1:D:1979:GLN:O	2.33	0.47
1:D:2253:TRP:NE1	1:E:2301:TYR:CE2	2.83	0.47
1:D:2434:SER:HB3	1:D:2483:THR:CG2	2.45	0.47
1:E:1897:PRO:O	1:E:1899:SER:OG	2.26	0.47
1:A:1026:LYS:HZ3	1:B:1878:GLU:CD	2.17	0.46
1:A:1808:HIS:HE1	1:E:1269:ILE:C	2.18	0.46
1:B:1736:ASN:HB3	1:B:1738:LYS:HZ1	1.79	0.46
1:B:934:LEU:O	1:B:938:LEU:HB3	2.15	0.46
1:C:934:LEU:O	1:C:938:LEU:HB3	2.15	0.46
1:D:2183:GLU:OE2	1:E:2111:GLU:CD	2.52	0.46
1:D:999:ARG:HE	1:D:1004:VAL:HG21	1.80	0.46
1:D:2253:TRP:CE2	1:E:2301:TYR:CD2	3.03	0.46
1:A:1060:LEU:HD12	1:A:1081:TYR:HB2	1.96	0.46
1:A:1107:LEU:HD23	1:A:1109:TYR:HE1	1.81	0.46
1:A:195:SER:C	1:A:952:ARG:HH22	2.17	0.46
1:A:1967:VAL:O	1:A:1970:LEU:N	2.49	0.46
1:A:2263:PHE:O	1:A:2266:TYR:HB3	2.16	0.46
1:A:2318:GLU:HB3	1:E:2272:ARG:HH22	1.80	0.46
1:A:2434:SER:HB3	1:A:2483:THR:CG2	2.45	0.46
1:A:2430:GLN:N	1:A:2497:GLN:HE22	2.13	0.46
1:A:1204:ARG:CZ	1:B:1072:ASP:HB2	2.45	0.46
1:B:1291:TYR:HA	1:B:1294:PHE:CE2	2.50	0.46
1:B:1588:HIS:HD2	1:B:1594:GLN:HG2	1.79	0.46
1:C:1235:TYR:CE2	1:C:1237:ALA:HB2	2.50	0.46
1:D:1594:GLN:HG3	1:D:1606:ASN:ND2	2.30	0.46
1:D:1651:ASN:C	1:D:1653:SER:H	2.19	0.46
1:D:1660:TRP:HD1	1:D:1661:PHE:CA	2.25	0.46
1:D:2172:MET:HE2	1:E:2121:ALA:CB	2.44	0.46
1:E:1286:TYR:O	1:E:1290:SER:CB	2.63	0.46
1:E:1050:ARG:HH12	1:E:1770:GLU:HG2	1.79	0.46
1:B:1594:GLN:HG3	1:B:1606:ASN:ND2	2.30	0.46
1:B:2026:ALA:O	1:B:2029:MET:HB3	2.14	0.46
1:B:2263:PHE:O	1:B:2266:TYR:HB3	2.16	0.46
1:C:2183:GLU:OE2	1:D:2111:GLU:CD	2.53	0.46
1:C:918:ALA:O	1:C:922:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:981:ILE:HD12	1:D:1973:ASN:HB2	1.96	0.46
1:D:1727:ARG:HA	1:D:1733:VAL:HG22	1.96	0.46
1:D:1836:ASP:HB3	1:D:1839:ALA:HB3	1.98	0.46
1:D:918:ALA:O	1:D:922:LEU:HG	2.16	0.46
1:D:934:LEU:O	1:D:938:LEU:CB	2.64	0.46
1:A:2124:LEU:HD21	1:E:2166:GLU:HA	1.98	0.46
1:E:2399:ARG:HH22	1:E:2408:LYS:HD2	1.80	0.46
1:E:2500:MET:O	1:E:2503:THR:N	2.48	0.46
1:A:125:GLU:HG3	1:A:1017:PHE:CG	2.49	0.46
1:A:2471:PRO:HG3	1:B:2327:ARG:NE	2.28	0.46
1:B:1235:TYR:CE2	1:B:1237:ALA:HB2	2.50	0.46
1:B:1286:TYR:O	1:B:1290:SER:CB	2.63	0.46
1:B:2172:MET:HG2	1:C:2117:LEU:CG	2.30	0.46
1:B:2183:GLU:OE2	1:C:2111:GLU:CD	2.54	0.46
1:A:2253:TRP:NE1	1:B:2301:TYR:CE2	2.84	0.46
1:A:2272:ARG:NH2	1:B:2318:GLU:HB3	2.29	0.46
1:B:2500:MET:O	1:B:2503:THR:N	2.48	0.46
1:C:118:TYR:OH	1:C:1025:ASN:O	2.27	0.46
1:C:1088:VAL:HG13	1:C:1144:TRP:CD1	2.51	0.46
1:C:1302:VAL:CG1	1:C:1584:LEU:HG	2.46	0.46
1:C:2172:MET:HE2	1:D:2121:ALA:CB	2.44	0.46
1:C:2187:ARG:NH1	1:D:2108:ASN:OD1	2.48	0.46
1:D:1967:VAL:HA	1:D:1970:LEU:HD13	1.96	0.46
1:D:2399:ARG:HH22	1:D:2408:LYS:HD2	1.80	0.46
1:D:2500:MET:O	1:D:2503:THR:N	2.48	0.46
1:D:968:TYR:HD1	1:D:973:ILE:C	2.19	0.46
1:D:995:LEU:CD1	1:E:1881:MET:HB3	2.46	0.46
1:E:1107:LEU:HD23	1:E:1109:TYR:HE1	1.81	0.46
1:A:1808:HIS:HB2	1:E:1270:PHE:HB3	1.35	0.46
1:E:2434:SER:HB3	1:E:2483:THR:CG2	2.45	0.46
1:A:1018:PHE:HA	1:A:1021:TRP:HB2	1.97	0.46
1:A:1021:TRP:HA	1:A:1025:ASN:HB2	1.98	0.46
1:A:1026:LYS:NZ	1:B:1878:GLU:OE1	2.49	0.46
1:A:1651:ASN:C	1:A:1653:SER:H	2.19	0.46
1:A:2399:ARG:HH22	1:A:2408:LYS:HD2	1.80	0.46
1:B:1827:TRP:HZ3	1:B:1847:HIS:NE2	2.12	0.46
1:B:2399:ARG:HH22	1:B:2408:LYS:HD2	1.80	0.46
1:B:2430:GLN:N	1:B:2497:GLN:HE22	2.13	0.46
1:C:1002:GLU:OE1	1:D:1885:GLN:OE1	2.32	0.46
1:C:1055:LYS:O	1:C:1058:ASP:N	2.49	0.46
1:C:1088:VAL:CG1	1:C:1144:TRP:HD1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1291:TYR:HA	1:C:1294:PHE:CE2	2.50	0.46
1:C:1588:HIS:HD2	1:C:1594:GLN:HG2	1.79	0.46
1:C:934:LEU:O	1:C:938:LEU:CB	2.64	0.46
1:D:1107:LEU:HD23	1:D:1109:TYR:HE1	1.81	0.46
1:C:1269:ILE:C	1:D:1808:HIS:CE1	2.86	0.46
1:D:2142:PRO:HA	1:D:2143:ASN:HA	1.72	0.46
1:E:1021:TRP:HA	1:E:1025:ASN:HB2	1.98	0.46
1:E:1291:TYR:HA	1:E:1294:PHE:CE2	2.50	0.46
1:E:1836:ASP:HB3	1:E:1839:ALA:HB3	1.98	0.46
1:A:2108:ASN:OD1	1:E:2187:ARG:NH1	2.49	0.46
1:D:2460:PHE:CB	1:E:2464:PHE:HE2	2.28	0.46
1:E:2430:GLN:N	1:E:2497:GLN:HE22	2.13	0.46
1:E:968:TYR:HD1	1:E:973:ILE:C	2.19	0.46
1:A:1726:VAL:O	1:A:1733:VAL:HG13	2.16	0.46
1:A:2154:TRP:O	1:A:2158:ALA:HB3	2.16	0.46
1:B:2468:LYS:CD	1:C:2327:ARG:HH11	2.24	0.46
1:C:1044:TYR:CE1	1:D:1992:PRO:HB2	2.51	0.46
1:C:1837:PRO:HG3	1:D:1996:LEU:CD1	2.46	0.46
1:C:1827:TRP:HZ3	1:C:1847:HIS:NE2	2.12	0.46
1:D:1021:TRP:HA	1:D:1025:ASN:HB2	1.98	0.46
1:D:1055:LYS:O	1:D:1058:ASP:N	2.49	0.46
1:D:1088:VAL:HG13	1:D:1144:TRP:CD1	2.51	0.46
1:D:1301:ARG:HA	1:D:1584:LEU:O	2.16	0.46
1:D:2468:LYS:CD	1:E:2327:ARG:HH11	2.28	0.46
1:E:1235:TYR:CE2	1:E:1237:ALA:HB2	2.50	0.46
1:E:1660:TRP:CH2	1:E:1680:GLN:HB3	2.36	0.46
1:E:1834:SER:O	1:E:1835:VAL:HG12	2.15	0.46
1:D:2201:ALA:CB	1:E:2091:GLY:HA3	2.46	0.46
1:D:2187:ARG:NH1	1:E:2108:ASN:OD1	2.49	0.46
1:A:2117:LEU:O	1:E:2172:MET:HE3	2.15	0.46
1:E:986:ILE:O	1:E:990:ILE:HG13	2.16	0.46
1:A:1055:LYS:H	1:A:1143:GLU:CD	2.19	0.46
1:A:1588:HIS:HD2	1:A:1594:GLN:HG2	1.79	0.46
1:A:1682:THR:HG22	1:A:1683:ASP:N	2.31	0.46
1:A:2447:ALA:CB	1:B:2329:LEU:HD22	2.42	0.46
1:A:918:ALA:O	1:A:922:LEU:HG	2.16	0.46
1:A:934:LEU:O	1:A:938:LEU:CB	2.64	0.46
1:B:1055:LYS:O	1:B:1058:ASP:N	2.49	0.46
1:B:1088:VAL:HG13	1:B:1144:TRP:CD1	2.51	0.46
1:B:1107:LEU:HD23	1:B:1109:TYR:HE1	1.81	0.46
1:B:1594:GLN:H	1:B:1606:ASN:CG	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1651:ASN:C	1:B:1653:SER:H	2.19	0.46
1:B:1663:LEU:HA	1:B:1709:MET:HA	1.97	0.46
1:B:1967:VAL:O	1:B:1970:LEU:N	2.49	0.46
1:A:2253:TRP:CE2	1:B:2301:TYR:CD2	3.03	0.46
1:C:1103:ASN:ND2	1:C:1598:TRP:CG	2.76	0.46
1:C:1727:ARG:HA	1:C:1733:VAL:HG22	1.97	0.46
1:C:1868:TYR:CE1	1:C:1970:LEU:HG	2.47	0.46
1:B:2183:GLU:CD	1:C:2111:GLU:HG2	2.36	0.46
1:D:1044:TYR:CE2	1:E:1992:PRO:HB3	2.51	0.46
1:D:1663:LEU:HA	1:D:1709:MET:HA	1.96	0.46
1:D:2166:GLU:HA	1:E:2124:LEU:HD21	1.98	0.46
1:E:1594:GLN:HG3	1:E:1606:ASN:ND2	2.30	0.46
1:A:2318:GLU:HB3	1:E:2272:ARG:NH2	2.30	0.46
1:E:2452:HIS:HD2	1:E:2454:MET:O	1.98	0.46
1:A:1286:TYR:O	1:A:1290:SER:CB	2.63	0.46
1:A:1594:GLN:H	1:A:1606:ASN:CG	2.19	0.46
1:A:1664:TYR:HB2	1:A:1708:TYR:HB2	1.98	0.46
1:A:1758:MET:O	1:A:1819:ARG:NH1	2.32	0.46
1:A:2452:HIS:HD2	1:A:2454:MET:O	1.99	0.46
1:B:1057:MET:HE2	1:B:1770:GLU:HB3	1.98	0.46
1:A:2166:GLU:HA	1:B:2124:LEU:HD21	1.97	0.46
1:B:2172:MET:CE	1:C:2120:SER:C	2.83	0.46
1:C:1018:PHE:HA	1:C:1021:TRP:HB2	1.97	0.46
1:C:1196:TYR:N	1:C:1218:ASN:OD1	2.41	0.46
1:C:1660:TRP:NE1	1:C:1661:PHE:O	2.47	0.46
1:C:1758:MET:O	1:C:1819:ARG:NH1	2.32	0.46
1:B:2253:TRP:CE2	1:C:2301:TYR:CE2	3.03	0.46
1:C:2430:GLN:N	1:C:2497:GLN:HE22	2.13	0.46
1:C:1242:GLU:HA	1:D:1806:ILE:HG23	1.98	0.46
1:D:1957:MET:HA	1:D:1960:TRP:HE3	1.81	0.46
1:D:2154:TRP:O	1:D:2158:ALA:HB3	2.16	0.46
1:D:2169:ALA:CB	1:E:2124:LEU:HD11	2.27	0.46
1:D:2430:GLN:N	1:D:2497:GLN:HE22	2.13	0.46
1:E:1057:MET:HE2	1:E:1770:GLU:HB3	1.97	0.46
1:D:1242:GLU:CA	1:E:1806:ILE:HG23	2.46	0.46
1:E:214:GLN:O	1:E:215:ASP:C	2.54	0.46
1:A:1885:GLN:OE1	1:E:1002:GLU:OE1	2.34	0.46
1:A:2468:LYS:CD	1:B:2327:ARG:HH11	2.28	0.46
1:A:968:TYR:HD1	1:A:973:ILE:C	2.19	0.46
1:B:2272:ARG:HH22	1:C:2318:GLU:HB3	1.81	0.46
1:C:1664:TYR:HB2	1:C:1708:TYR:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1269:ILE:C	1:C:1808:HIS:HE1	2.18	0.46
1:C:2500:MET:O	1:C:2503:THR:N	2.48	0.46
1:D:1088:VAL:CG1	1:D:1144:TRP:HD1	2.29	0.46
1:D:1286:TYR:O	1:D:1290:SER:CB	2.63	0.46
1:D:1291:TYR:HA	1:D:1294:PHE:CE2	2.50	0.46
1:D:2304:LEU:HD23	1:D:2304:LEU:HA	1.81	0.46
1:C:2471:PRO:CG	1:D:2327:ARG:HE	2.26	0.46
1:E:1060:LEU:HD12	1:E:1081:TYR:HB2	1.96	0.46
1:E:1081:TYR:HD2	1:E:1771:LEU:HD12	1.81	0.46
1:A:1055:LYS:O	1:A:1058:ASP:N	2.49	0.46
1:A:1301:ARG:HA	1:A:1584:LEU:O	2.16	0.46
1:A:1836:ASP:HB3	1:A:1839:ALA:HB3	1.98	0.46
1:B:1055:LYS:H	1:B:1143:GLU:CD	2.19	0.46
1:B:1302:VAL:CG1	1:B:1584:LEU:HG	2.46	0.46
1:B:2452:HIS:HD2	1:B:2454:MET:O	1.99	0.46
1:C:1301:ARG:HA	1:C:1584:LEU:O	2.16	0.46
1:C:968:TYR:HD1	1:C:973:ILE:C	2.19	0.46
1:D:1203:ILE:HG13	1:D:1209:TRP:CZ3	2.51	0.46
1:D:1682:THR:HG22	1:D:1683:ASP:N	2.31	0.46
1:D:1726:VAL:O	1:D:1733:VAL:HG13	2.16	0.46
1:D:2264:GLN:OE1	1:E:2312:LEU:HD21	2.16	0.46
1:D:986:ILE:O	1:D:990:ILE:HG13	2.16	0.46
1:E:1088:VAL:HG13	1:E:1144:TRP:CD1	2.51	0.46
1:E:1302:VAL:CG1	1:E:1584:LEU:HG	2.46	0.46
1:E:1301:ARG:HA	1:E:1584:LEU:O	2.16	0.46
1:E:1651:ASN:C	1:E:1653:SER:H	2.19	0.46
1:E:1726:VAL:O	1:E:1733:VAL:HG13	2.16	0.46
1:E:1957:MET:HA	1:E:1960:TRP:HE3	1.81	0.46
1:E:2263:PHE:O	1:E:2266:TYR:HB3	2.16	0.46
1:E:918:ALA:O	1:E:922:LEU:HG	2.16	0.46
1:E:934:LEU:O	1:E:938:LEU:CB	2.64	0.46
1:A:1060:LEU:O	1:A:1064:VAL:HG12	2.16	0.45
1:B:1580:THR:HG21	1:B:1599:GLN:HE22	1.81	0.45
1:B:1682:THR:HG22	1:B:1683:ASP:N	2.31	0.45
1:B:1664:TYR:HB2	1:B:1708:TYR:HB2	1.98	0.45
1:B:1957:MET:HA	1:B:1960:TRP:HE3	1.81	0.45
1:B:2377:PHE:HE1	1:B:2387:LEU:HB2	1.81	0.45
1:B:961:ILE:HG23	1:B:962:LYS:N	2.31	0.45
1:B:986:ILE:O	1:B:990:ILE:HG13	2.16	0.45
1:C:2399:ARG:HH22	1:C:2408:LYS:HD2	1.81	0.45
1:D:1060:LEU:O	1:D:1064:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1092:LYS:HA	1:D:1594:GLN:NE2	2.24	0.45
1:D:1963:LEU:HA	1:D:1963:LEU:HD23	1.78	0.45
1:E:1038:VAL:O	1:E:1041:PRO:HD3	2.16	0.45
1:E:1088:VAL:CG1	1:E:1144:TRP:HD1	2.29	0.45
1:E:933:THR:O	1:E:936:ALA:HB3	2.16	0.45
1:A:1663:LEU:HA	1:A:1709:MET:HA	1.96	0.45
1:A:2301:TYR:CE2	1:E:2253:TRP:CE2	3.04	0.45
1:B:1088:VAL:CG1	1:B:1144:TRP:HD1	2.29	0.45
1:B:1726:VAL:O	1:B:1733:VAL:HG13	2.16	0.45
1:A:1032:ALA:CB	1:B:1989:PRO:HB3	2.46	0.45
1:A:2216:ARG:CA	1:B:2077:GLU:OE1	2.59	0.45
1:A:2201:ALA:CB	1:B:2091:GLY:CA	2.95	0.45
1:B:214:GLN:O	1:B:215:ASP:C	2.54	0.45
1:B:918:ALA:O	1:B:922:LEU:HG	2.16	0.45
1:C:1038:VAL:O	1:C:1041:PRO:HD3	2.16	0.45
1:C:1651:ASN:C	1:C:1653:SER:H	2.19	0.45
1:C:1682:THR:HG22	1:C:1683:ASP:N	2.31	0.45
1:C:1859:LEU:HD12	1:C:1859:LEU:HA	1.71	0.45
1:C:1967:VAL:O	1:C:1970:LEU:N	2.49	0.45
1:C:2281:ARG:HB3	1:C:2287:ASP:HA	1.96	0.45
1:C:2360:LEU:HD22	1:C:2375:LEU:CD2	2.47	0.45
1:B:2460:PHE:HB3	1:C:2464:PHE:HE2	1.81	0.45
1:D:1660:TRP:NE1	1:D:1661:PHE:O	2.47	0.45
1:E:1132:ASN:HD21	1:E:1830:ASP:CG	2.16	0.45
1:A:1088:VAL:HG13	1:A:1144:TRP:CD1	2.51	0.45
1:A:1825:THR:HG22	1:A:1849:LYS:NZ	2.32	0.45
1:A:1957:MET:HA	1:A:1960:TRP:HE3	1.81	0.45
1:A:2016:LEU:HD12	1:B:2327:ARG:HB2	1.99	0.45
1:B:1018:PHE:HA	1:B:1021:TRP:HB2	1.97	0.45
1:A:2176:ALA:HB2	1:B:2117:LEU:HD13	1.84	0.45
1:C:1081:TYR:HD2	1:C:1771:LEU:HD12	1.81	0.45
1:C:1726:VAL:O	1:C:1733:VAL:HG13	2.16	0.45
1:C:1836:ASP:HB3	1:C:1839:ALA:HB3	1.98	0.45
1:C:2434:SER:HB3	1:C:2483:THR:CG2	2.45	0.45
1:D:1057:MET:HE2	1:D:1770:GLU:HB3	1.98	0.45
1:D:1302:VAL:CG1	1:D:1584:LEU:HG	2.46	0.45
1:D:1594:GLN:H	1:D:1606:ASN:CG	2.19	0.45
1:D:2016:LEU:HD12	1:E:2327:ARG:HB2	1.97	0.45
1:D:2263:PHE:O	1:D:2266:TYR:HB3	2.16	0.45
1:E:1055:LYS:O	1:E:1058:ASP:N	2.49	0.45
1:A:1038:VAL:O	1:A:1041:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1594:GLN:HG3	1:A:1606:ASN:ND2	2.30	0.45
1:A:2327:ARG:HB2	1:E:2016:LEU:HD11	1.97	0.45
1:A:2377:PHE:HE1	1:A:2387:LEU:HB2	1.81	0.45
1:B:934:LEU:O	1:B:938:LEU:CB	2.64	0.45
1:B:160:SER:HA	1:B:982:LYS:HD2	1.99	0.45
1:C:1735:ILE:HD11	1:C:1741:LEU:HD11	1.98	0.45
1:C:1825:THR:HG22	1:C:1849:LYS:NZ	2.32	0.45
1:D:1270:PHE:HB3	1:E:1808:HIS:HB2	1.35	0.45
1:A:1623:THR:CA	1:E:1272:ASP:CG	2.43	0.45
1:E:1825:THR:HG22	1:E:1849:LYS:NZ	2.32	0.45
1:D:2013:PHE:CE1	1:E:2323:LYS:HG2	2.50	0.45
1:A:1302:VAL:CG1	1:A:1584:LEU:HG	2.46	0.45
1:A:210:VAL:O	1:A:213:LEU:CB	2.65	0.45
1:A:961:ILE:HG23	1:A:962:LYS:N	2.31	0.45
1:A:160:SER:HA	1:A:982:LYS:HD2	1.99	0.45
1:B:1825:THR:HG22	1:B:1849:LYS:NZ	2.32	0.45
1:B:2096:PHE:CE1	1:B:2200:GLU:HB2	2.52	0.45
1:B:2360:LEU:HD22	1:B:2375:LEU:CD2	2.47	0.45
1:C:1021:TRP:HA	1:C:1025:ASN:HB2	1.98	0.45
1:C:1060:LEU:O	1:C:1064:VAL:HG12	2.16	0.45
1:C:1242:GLU:CA	1:D:1806:ILE:HG23	2.47	0.45
1:C:1286:TYR:O	1:C:1290:SER:CB	2.63	0.45
1:C:1841:ALA:O	1:C:1843:HIS:N	2.44	0.45
1:C:1975:SER:OG	1:C:1979:GLN:O	2.33	0.45
1:B:2166:GLU:HA	1:C:2124:LEU:HD21	1.97	0.45
1:C:2154:TRP:O	1:C:2158:ALA:HB3	2.16	0.45
1:C:2166:GLU:HA	1:D:2124:LEU:HD21	1.98	0.45
1:C:2383:THR:CG2	1:D:2403:PRO:HB3	2.46	0.45
1:D:2452:HIS:HD2	1:D:2454:MET:O	1.99	0.45
1:D:933:THR:O	1:D:936:ALA:HB3	2.16	0.45
1:E:1055:LYS:H	1:E:1143:GLU:CD	2.19	0.45
1:E:1594:GLN:H	1:E:1606:ASN:CG	2.19	0.45
1:E:1664:TYR:HE1	1:E:1710:THR:HG1	1.60	0.45
1:D:1242:GLU:HA	1:E:1806:ILE:HG23	1.99	0.45
1:D:1032:ALA:CB	1:E:1989:PRO:HB3	2.46	0.45
1:A:2111:GLU:HG2	1:E:2183:GLU:CD	2.37	0.45
1:E:2358:ASP:O	1:E:2362:SER:OG	2.22	0.45
1:E:2377:PHE:HE1	1:E:2387:LEU:HB2	1.81	0.45
1:A:1088:VAL:CG1	1:A:1144:TRP:HD1	2.29	0.45
1:A:1580:THR:HG21	1:A:1599:GLN:HE22	1.81	0.45
1:A:1973:ASN:HB2	1:E:981:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1989:PRO:HB3	1:E:1032:ALA:CB	2.45	0.45
1:B:1021:TRP:HA	1:B:1025:ASN:HB2	1.98	0.45
1:B:1642:TYR:OH	1:B:1689:THR:OG1	2.34	0.45
1:A:995:LEU:CD1	1:B:1881:MET:HB3	2.46	0.45
1:A:1002:GLU:OE1	1:B:1885:GLN:OE1	2.35	0.45
1:B:1963:LEU:HD23	1:B:1963:LEU:HA	1.78	0.45
1:C:2071:GLN:O	1:C:2074:THR:HG22	2.17	0.45
1:C:2452:HIS:HD2	1:C:2454:MET:O	1.99	0.45
1:C:2460:PHE:CB	1:D:2464:PHE:CE2	2.99	0.45
1:C:2016:LEU:HD21	1:C:2468:LYS:NZ	2.32	0.45
1:D:1825:THR:HG22	1:D:1849:LYS:NZ	2.32	0.45
1:C:2016:LEU:HD12	1:D:2327:ARG:HB2	1.98	0.45
1:D:2348:ASN:CB	1:D:2370:SER:HB2	2.47	0.45
1:D:2377:PHE:HE1	1:D:2387:LEU:HB2	1.81	0.45
1:D:961:ILE:HG23	1:D:962:LYS:N	2.31	0.45
1:E:1664:TYR:HB2	1:E:1708:TYR:HB2	1.98	0.45
1:E:961:ILE:HG23	1:E:962:LYS:N	2.31	0.45
1:A:2071:GLN:O	1:A:2074:THR:HG22	2.17	0.45
1:A:933:THR:O	1:A:936:ALA:HB3	2.16	0.45
1:A:2201:ALA:CB	1:B:2091:GLY:HA3	2.45	0.45
1:B:210:VAL:O	1:B:213:LEU:CB	2.65	0.45
1:C:1055:LYS:H	1:C:1143:GLU:CD	2.20	0.45
1:C:1594:GLN:H	1:C:1606:ASN:CG	2.19	0.45
1:C:1841:ALA:C	1:C:1843:HIS:N	2.70	0.45
1:C:1957:MET:HA	1:C:1960:TRP:HE3	1.81	0.45
1:C:2438:LYS:HE3	1:C:2438:LYS:HB2	1.83	0.45
1:C:902:TYR:CB	1:C:907:LYS:NZ	2.80	0.45
1:C:933:THR:O	1:C:936:ALA:HB3	2.16	0.45
1:C:961:ILE:HG23	1:C:962:LYS:N	2.31	0.45
1:D:1044:TYR:CE1	1:E:1992:PRO:HB2	2.51	0.45
1:D:1580:THR:HG21	1:D:1599:GLN:HE22	1.81	0.45
1:D:160:SER:HA	1:D:982:LYS:HD2	1.99	0.45
1:E:1580:THR:HG21	1:E:1599:GLN:HE22	1.81	0.45
1:E:1735:ILE:HD11	1:E:1741:LEU:HD11	1.98	0.45
1:E:210:VAL:O	1:E:213:LEU:CB	2.65	0.45
1:E:2360:LEU:HD22	1:E:2375:LEU:CD2	2.47	0.45
1:E:2418:THR:HG22	1:E:2420:PRO:HD3	1.99	0.45
1:A:1760:PHE:CD2	1:A:1820:PRO:CG	3.00	0.45
1:B:1038:VAL:O	1:B:1041:PRO:HD3	2.16	0.45
1:B:1664:TYR:CD2	1:B:1673:SER:HB3	2.52	0.45
1:B:1836:ASP:HB3	1:B:1839:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2085:LEU:HD12	1:B:2213:LEU:HD12	1.99	0.45
1:B:2282:TRP:CH2	1:B:2440:GLY:HA3	2.52	0.45
1:C:1203:ILE:HG13	1:C:1209:TRP:CZ3	2.51	0.45
1:C:1833:ASP:OD1	1:C:1834:SER:N	2.49	0.45
1:C:2142:PRO:HA	1:C:2143:ASN:HA	1.72	0.45
1:C:2085:LEU:HD12	1:C:2213:LEU:HD12	1.99	0.45
1:C:2263:PHE:O	1:C:2266:TYR:HB3	2.15	0.45
1:B:2013:PHE:CE1	1:C:2323:LYS:HG2	2.50	0.45
1:C:986:ILE:O	1:C:990:ILE:HG13	2.16	0.45
1:D:1664:TYR:HB2	1:D:1708:TYR:HB2	1.98	0.45
1:D:1783:LEU:HA	1:D:1783:LEU:HD23	1.69	0.45
1:C:1026:LYS:NZ	1:D:1878:GLU:OE1	2.49	0.45
1:E:1841:ALA:C	1:E:1843:HIS:N	2.70	0.45
1:E:2071:GLN:O	1:E:2074:THR:HG22	2.17	0.45
1:A:2121:ALA:CA	1:E:2172:MET:HE3	2.33	0.45
1:E:2016:LEU:HD21	1:E:2468:LYS:NZ	2.32	0.45
1:A:1735:ILE:HD11	1:A:1741:LEU:HD11	1.98	0.45
1:A:2096:PHE:CE1	1:A:2200:GLU:HB2	2.52	0.45
1:A:2360:LEU:HD22	1:A:2375:LEU:CD2	2.47	0.45
1:A:2282:TRP:CH2	1:A:2440:GLY:HA3	2.52	0.45
1:B:1040:TYR:CZ	1:B:1953:ASN:HB2	2.52	0.45
1:B:1081:TYR:HD2	1:B:1771:LEU:HD12	1.81	0.45
1:B:1841:ALA:O	1:B:1843:HIS:N	2.44	0.45
1:B:2154:TRP:O	1:B:2158:ALA:HB3	2.16	0.45
1:B:2184:THR:O	1:B:2188:ARG:HG2	2.17	0.45
1:B:933:THR:O	1:B:936:ALA:HB3	2.16	0.45
1:C:1580:THR:HG21	1:C:1599:GLN:HE22	1.81	0.45
1:C:93:ASN:OD1	1:C:1894:PRO:HB3	2.17	0.45
1:D:1735:ILE:HD11	1:D:1741:LEU:HD11	1.98	0.45
1:D:214:GLN:O	1:D:215:ASP:C	2.54	0.45
1:D:2383:THR:HG23	1:E:2403:PRO:HB3	1.99	0.45
1:A:2124:LEU:HG	1:E:2165:MET:CG	2.47	0.45
1:A:1736:ASN:HB3	1:A:1738:LYS:HZ1	1.82	0.45
1:A:2016:LEU:HD11	1:B:2327:ARG:HB2	1.99	0.45
1:A:986:ILE:O	1:A:990:ILE:HG13	2.16	0.45
1:B:1060:LEU:O	1:B:1064:VAL:HG12	2.16	0.45
1:B:1841:ALA:C	1:B:1843:HIS:N	2.70	0.45
1:B:2016:LEU:HD21	1:B:2468:LYS:NZ	2.32	0.45
1:B:902:TYR:CB	1:B:907:LYS:NZ	2.80	0.45
1:B:968:TYR:HD1	1:B:973:ILE:C	2.19	0.45
1:C:1040:TYR:CZ	1:C:1953:ASN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2500:MET:HG3	1:C:2501:LEU:N	2.32	0.45
1:D:1002:GLU:CG	1:E:1882:TRP:HH2	2.24	0.45
1:D:1664:TYR:CD2	1:D:1673:SER:HB3	2.52	0.45
1:D:1841:ALA:HB1	1:D:1848:TYR:CE2	2.52	0.45
1:D:1841:ALA:C	1:D:1843:HIS:N	2.70	0.45
1:D:1040:TYR:CZ	1:D:1953:ASN:HB2	2.52	0.45
1:D:2071:GLN:O	1:D:2074:THR:HG22	2.17	0.45
1:E:1841:ALA:HB1	1:E:1848:TYR:CE2	2.52	0.45
1:D:2236:SER:OG	1:E:2059:GLN:NE2	2.50	0.45
1:D:2471:PRO:CG	1:E:2327:ARG:HE	2.28	0.45
1:A:1664:TYR:CD2	1:A:1673:SER:HB3	2.52	0.44
1:A:1841:ALA:C	1:A:1843:HIS:N	2.70	0.44
1:A:2103:TYR:CD2	1:A:2104:ASP:OD1	2.70	0.44
1:A:2184:THR:O	1:A:2188:ARG:HG2	2.17	0.44
1:B:1841:ALA:HB1	1:B:1848:TYR:CE2	2.52	0.44
1:B:2471:PRO:HG3	1:C:2327:ARG:NE	2.30	0.44
1:C:1841:ALA:HB1	1:C:1848:TYR:CE2	2.52	0.44
1:C:2099:TYR:CE2	1:C:2195:GLN:HG3	2.53	0.44
1:C:2383:THR:HG23	1:D:2403:PRO:HB3	1.99	0.44
1:D:1038:VAL:O	1:D:1041:PRO:HD3	2.16	0.44
1:D:902:TYR:CB	1:D:907:LYS:NZ	2.80	0.44
1:E:1664:TYR:CD2	1:E:1673:SER:HB3	2.52	0.44
1:E:1682:THR:HG22	1:E:1683:ASP:N	2.31	0.44
1:E:1706:LYS:HD2	1:E:1721:TRP:O	2.18	0.44
1:E:1975:SER:OG	1:E:1979:GLN:O	2.33	0.44
1:A:2327:ARG:NE	1:E:2471:PRO:HG3	2.29	0.44
1:A:1203:ILE:HG13	1:A:1209:TRP:CZ3	2.51	0.44
1:A:1250:TYR:OH	1:A:1294:PHE:HB2	2.18	0.44
1:A:1662:LYS:O	1:A:1710:THR:N	2.39	0.44
1:A:1806:ILE:HG23	1:E:1242:GLU:CA	2.47	0.44
1:A:2085:LEU:HD12	1:A:2213:LEU:HD12	1.99	0.44
1:A:2099:TYR:CE2	1:A:2195:GLN:HG3	2.53	0.44
1:A:2016:LEU:HD21	1:A:2468:LYS:NZ	2.32	0.44
1:A:2169:ALA:HB3	1:B:2124:LEU:HD22	1.58	0.44
1:C:1044:TYR:CE2	1:D:1992:PRO:HB3	2.52	0.44
1:C:1736:ASN:HB3	1:C:1738:LYS:HZ1	1.82	0.44
1:C:2096:PHE:CE1	1:C:2200:GLU:HB2	2.52	0.44
1:C:2348:ASN:CB	1:C:2370:SER:HB2	2.47	0.44
1:D:1204:ARG:HH21	1:D:1210:ASN:HD21	1.63	0.44
1:D:1723:PRO:HD3	1:D:1744:PHE:CE2	2.52	0.44
1:D:2184:THR:O	1:D:2188:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2282:TRP:CH2	1:D:2440:GLY:HA3	2.52	0.44
1:E:1783:LEU:HA	1:E:1783:LEU:HD23	1.69	0.44
1:E:93:ASN:OD1	1:E:1894:PRO:HB3	2.17	0.44
1:D:2383:THR:CG2	1:E:2403:PRO:HB3	2.47	0.44
1:E:902:TYR:CB	1:E:907:LYS:NZ	2.80	0.44
1:A:1040:TYR:CZ	1:A:1953:ASN:HB2	2.52	0.44
1:A:1648:PRO:CD	1:A:1745:GLU:HG3	2.45	0.44
1:A:2418:THR:HG22	1:A:2420:PRO:HD3	1.99	0.44
1:A:902:TYR:CB	1:A:907:LYS:NZ	2.80	0.44
1:B:93:ASN:OD1	1:B:1894:PRO:HB3	2.17	0.44
1:B:2103:TYR:CD2	1:B:2104:ASP:OD1	2.70	0.44
1:B:2348:ASN:CB	1:B:2370:SER:HB2	2.47	0.44
1:A:2460:PHE:HB3	1:B:2464:PHE:HE2	1.81	0.44
1:C:1204:ARG:HH21	1:C:1210:ASN:HD21	1.62	0.44
1:C:1250:TYR:OH	1:C:1294:PHE:HB2	2.18	0.44
1:C:2184:THR:O	1:C:2188:ARG:HG2	2.17	0.44
1:C:2304:LEU:HD23	1:C:2304:LEU:HA	1.81	0.44
1:C:2418:THR:HG22	1:C:2420:PRO:HD3	1.99	0.44
1:D:1055:LYS:H	1:D:1143:GLU:CD	2.20	0.44
1:D:2099:TYR:CE2	1:D:2195:GLN:HG3	2.53	0.44
1:D:2385:THR:HG23	1:D:2490:SER:HB3	1.99	0.44
1:E:1203:ILE:HG13	1:E:1209:TRP:CZ3	2.51	0.44
1:A:1806:ILE:HG23	1:E:1242:GLU:HA	1.99	0.44
1:A:1740:ILE:O	1:A:1741:LEU:HB2	2.18	0.44
1:A:1841:ALA:HB1	1:A:1848:TYR:CE2	2.52	0.44
1:A:2236:SER:OG	1:B:2059:GLN:NE2	2.50	0.44
1:A:2460:PHE:CB	1:B:2464:PHE:HE2	2.30	0.44
1:B:2165:MET:CG	1:C:2124:LEU:HG	2.48	0.44
1:B:2099:TYR:CE2	1:B:2195:GLN:HG3	2.52	0.44
1:B:2399:ARG:HH21	1:B:2410:ARG:NH1	2.16	0.44
1:C:1002:GLU:CG	1:D:1882:TRP:HH2	2.27	0.44
1:C:1107:LEU:HD23	1:C:1109:TYR:HE1	1.81	0.44
1:C:210:VAL:O	1:C:213:LEU:CB	2.65	0.44
1:C:2202:GLU:O	1:C:2205:GLN:HB3	2.18	0.44
1:D:1706:LYS:HD2	1:D:1721:TRP:O	2.18	0.44
1:D:2085:LEU:HD12	1:D:2213:LEU:HD12	1.99	0.44
1:D:2103:TYR:CD2	1:D:2104:ASP:OD1	2.70	0.44
1:D:2438:LYS:HB2	1:D:2438:LYS:HE3	1.83	0.44
1:E:1040:TYR:CZ	1:E:1953:ASN:HB2	2.52	0.44
1:E:1060:LEU:O	1:E:1064:VAL:HG12	2.16	0.44
1:E:2184:THR:O	1:E:2188:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2348:ASN:CB	1:E:2370:SER:HB2	2.47	0.44
1:D:2460:PHE:CB	1:E:2464:PHE:CE2	3.00	0.44
1:A:1881:MET:HB3	1:E:995:LEU:CD1	2.47	0.44
1:A:1706:LYS:HD2	1:A:1721:TRP:O	2.18	0.44
1:A:1841:ALA:O	1:A:1843:HIS:N	2.44	0.44
1:A:93:ASN:OD1	1:A:1894:PRO:HB3	2.17	0.44
1:B:1092:LYS:HA	1:B:1594:GLN:NE2	2.24	0.44
1:B:1203:ILE:HG13	1:B:1209:TRP:CZ3	2.51	0.44
1:B:1301:ARG:HA	1:B:1584:LEU:O	2.16	0.44
1:B:1833:ASP:OD1	1:B:1834:SER:N	2.49	0.44
1:B:2071:GLN:O	1:B:2074:THR:HG22	2.17	0.44
1:B:999:ARG:HE	1:B:1004:VAL:CG2	2.31	0.44
1:C:1723:PRO:HD3	1:C:1744:PHE:CE2	2.52	0.44
1:C:2103:TYR:CD2	1:C:2104:ASP:OD1	2.70	0.44
1:C:2222:LEU:HD11	1:D:2073:LYS:HE3	1.98	0.44
1:C:2399:ARG:HH21	1:C:2410:ARG:NH1	2.16	0.44
1:C:969:GLN:HB3	1:C:999:ARG:HH12	1.83	0.44
1:D:2096:PHE:CE1	1:D:2200:GLU:HB2	2.52	0.44
1:D:2202:GLU:O	1:D:2205:GLN:HB3	2.18	0.44
1:D:969:GLN:HB3	1:D:999:ARG:HH12	1.83	0.44
1:E:159:LEU:HD12	1:E:164:LEU:HD21	2.00	0.44
1:E:2103:TYR:O	1:E:2104:ASP:HB2	2.18	0.44
1:E:2154:TRP:O	1:E:2158:ALA:HB3	2.16	0.44
1:E:2202:GLU:O	1:E:2205:GLN:HB3	2.18	0.44
1:A:159:LEU:HD12	1:A:164:LEU:HD21	2.00	0.44
1:A:2348:ASN:CB	1:A:2370:SER:HB2	2.47	0.44
1:A:2500:MET:HG3	1:A:2501:LEU:N	2.32	0.44
1:A:969:GLN:HB3	1:A:999:ARG:HH12	1.83	0.44
1:B:159:LEU:HD12	1:B:164:LEU:HD21	2.00	0.44
1:B:1897:PRO:O	1:B:1899:SER:OG	2.26	0.44
1:B:1974:LEU:O	1:B:1975:SER:OG	2.32	0.44
1:C:1092:LYS:HA	1:C:1594:GLN:NE2	2.24	0.44
1:C:1664:TYR:CD2	1:C:1673:SER:HB3	2.52	0.44
1:C:1963:LEU:HA	1:C:1963:LEU:HD23	1.79	0.44
1:B:2169:ALA:CB	1:C:2124:LEU:CG	2.38	0.44
1:C:2312:LEU:HD12	1:C:2312:LEU:HA	1.74	0.44
1:D:1967:VAL:O	1:D:1970:LEU:N	2.49	0.44
1:D:2016:LEU:HD11	1:E:2327:ARG:HB2	2.00	0.44
1:D:210:VAL:O	1:D:213:LEU:CB	2.65	0.44
1:D:2425:PRO:HA	1:D:2426:TYR:HA	1.56	0.44
1:D:2016:LEU:HD21	1:D:2468:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1760:PHE:CD2	1:E:1820:PRO:CG	3.00	0.44
1:E:2096:PHE:CE1	1:E:2200:GLU:HB2	2.52	0.44
1:A:2312:LEU:HD21	1:E:2264:GLN:OE1	2.17	0.44
1:A:2103:TYR:O	1:A:2104:ASP:HB2	2.18	0.44
1:A:2464:PHE:HE2	1:E:2460:PHE:CB	2.31	0.44
1:A:2464:PHE:HE2	1:E:2460:PHE:HB3	1.83	0.44
1:A:2385:THR:HG23	1:A:2490:SER:HB3	1.99	0.44
1:A:977:VAL:HG12	1:A:978:SER:O	2.18	0.44
1:B:129:LEU:HA	1:B:129:LEU:HD23	1.84	0.44
1:B:1598:TRP:CG	1:B:1599:GLN:N	2.86	0.44
1:B:1735:ILE:HD11	1:B:1741:LEU:HD11	1.98	0.44
1:B:2385:THR:HG23	1:B:2490:SER:HB3	1.99	0.44
1:C:159:LEU:O	1:C:983:THR:N	2.43	0.44
1:B:981:ILE:HD12	1:C:1973:ASN:HB2	2.00	0.44
1:C:2377:PHE:HE1	1:C:2387:LEU:HB2	1.81	0.44
1:C:2282:TRP:CH2	1:C:2440:GLY:HA3	2.52	0.44
1:B:2460:PHE:CB	1:C:2464:PHE:HE2	2.30	0.44
1:D:1966:ARG:O	1:D:1970:LEU:HD12	2.18	0.44
1:D:1868:TYR:CD2	1:D:1976:ILE:HD13	2.53	0.44
1:D:2418:THR:HG22	1:D:2420:PRO:HD3	1.99	0.44
1:D:93:ASN:OD1	1:D:1894:PRO:HB3	2.17	0.44
1:D:977:VAL:HG12	1:D:978:SER:O	2.18	0.44
1:E:1103:ASN:ND2	1:E:1598:TRP:CE2	2.82	0.44
1:E:159:LEU:O	1:E:983:THR:N	2.43	0.44
1:E:1740:ILE:O	1:E:1741:LEU:HB2	2.18	0.44
1:E:1827:TRP:NE1	1:E:1846:MET:HE2	2.33	0.44
1:E:1966:ARG:O	1:E:1970:LEU:HD12	2.18	0.44
1:E:2103:TYR:CD2	1:E:2104:ASP:OD1	2.70	0.44
1:A:2124:LEU:HG	1:E:2165:MET:HG3	1.99	0.44
1:B:1204:ARG:NH2	1:B:1210:ASN:OD1	2.42	0.44
1:B:155:MET:O	1:B:155:MET:HG2	2.18	0.44
1:B:1723:PRO:HD3	1:B:1744:PHE:CE2	2.52	0.44
1:B:1859:LEU:HA	1:B:1859:LEU:HD12	1.71	0.44
1:B:1966:ARG:O	1:B:1970:LEU:HD12	2.18	0.44
1:B:2103:TYR:O	1:B:2104:ASP:HB2	2.18	0.44
1:B:2187:ARG:NH1	1:C:2108:ASN:OD1	2.50	0.44
1:B:969:GLN:HB3	1:B:999:ARG:HH12	1.83	0.44
1:C:977:VAL:HG12	1:C:978:SER:O	2.18	0.44
1:D:159:LEU:HD12	1:D:164:LEU:HD21	2.00	0.44
1:D:2399:ARG:HH21	1:D:2410:ARG:NH1	2.16	0.44
1:D:2500:MET:HG3	1:D:2501:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1250:TYR:OH	1:E:1294:PHE:HB2	2.18	0.44
1:E:1598:TRP:CG	1:E:1599:GLN:N	2.86	0.44
1:E:1648:PRO:CD	1:E:1745:GLU:HG3	2.45	0.44
1:E:2099:TYR:CE2	1:E:2195:GLN:HG3	2.53	0.44
1:E:969:GLN:HB3	1:E:999:ARG:HH12	1.83	0.44
1:E:977:VAL:HG12	1:E:978:SER:O	2.18	0.44
1:A:1057:MET:HE2	1:A:1770:GLU:HB3	2.00	0.44
1:A:2264:GLN:OE1	1:B:2312:LEU:HD21	2.18	0.44
1:A:2301:TYR:CD2	1:E:2253:TRP:CE2	3.05	0.44
1:B:1004:VAL:HG23	1:B:1005:GLU:HG3	2.00	0.44
1:B:2304:LEU:HD23	1:B:2304:LEU:HA	1.81	0.44
1:B:2418:THR:HG22	1:B:2420:PRO:HD3	1.99	0.44
1:C:159:LEU:HD12	1:C:164:LEU:HD21	2.00	0.44
1:C:1951:GLN:HG3	1:C:1952:ILE:N	2.33	0.44
1:C:1966:ARG:O	1:C:1970:LEU:HD12	2.18	0.44
1:D:1204:ARG:NH2	1:D:1210:ASN:ND2	2.65	0.44
1:D:155:MET:HG2	1:D:155:MET:O	2.18	0.44
1:D:182:TYR:O	1:D:185:VAL:N	2.50	0.44
1:D:1841:ALA:O	1:D:1843:HIS:N	2.44	0.44
1:D:2103:TYR:O	1:D:2104:ASP:HB2	2.18	0.44
1:C:2016:LEU:HD11	1:D:2327:ARG:HB2	2.00	0.44
1:D:999:ARG:HE	1:D:1004:VAL:CG2	2.31	0.44
1:E:2282:TRP:CH2	1:E:2440:GLY:HA3	2.52	0.44
1:A:2202:GLU:O	1:A:2205:GLN:HB3	2.18	0.43
1:B:1250:TYR:OH	1:B:1294:PHE:HB2	2.18	0.43
1:B:2253:TRP:CE2	1:C:2301:TYR:CD2	3.06	0.43
1:B:2500:MET:HG3	1:B:2501:LEU:N	2.33	0.43
1:C:1300:ARG:O	1:C:1585:THR:HA	2.18	0.43
1:C:1597:GLN:HG3	1:C:1601:TYR:O	2.18	0.43
1:D:1597:GLN:HG3	1:D:1601:TYR:O	2.18	0.43
1:D:2201:ALA:CB	1:E:2091:GLY:CA	2.96	0.43
1:D:2360:LEU:HD22	1:D:2375:LEU:CD2	2.47	0.43
1:D:984:THR:HG22	1:D:985:ARG:N	2.33	0.43
1:E:1300:ARG:O	1:E:1585:THR:HA	2.18	0.43
1:E:2018:ARG:HG2	1:E:2467:GLY:C	2.38	0.43
1:A:2301:TYR:CE2	1:E:2253:TRP:NE1	2.86	0.43
1:E:2385:THR:HG23	1:E:2490:SER:HB3	1.99	0.43
1:E:999:ARG:HE	1:E:1004:VAL:CG2	2.31	0.43
1:A:1103:ASN:ND2	1:A:1598:TRP:CG	2.76	0.43
1:A:1706:LYS:CG	1:A:1722:GLY:HA3	2.49	0.43
1:A:1723:PRO:HD3	1:A:1744:PHE:CE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1081:TYR:HD2	1:A:1771:LEU:HD12	1.81	0.43
1:A:1966:ARG:O	1:A:1970:LEU:HD12	2.18	0.43
1:A:1975:SER:OG	1:A:1979:GLN:O	2.33	0.43
1:A:2460:PHE:CB	1:B:2464:PHE:CE2	3.02	0.43
1:A:2018:ARG:HG2	1:A:2467:GLY:C	2.38	0.43
1:A:974:ASP:CB	1:A:977:VAL:HG23	2.47	0.43
1:B:2018:ARG:HG2	1:B:2467:GLY:C	2.38	0.43
1:C:1057:MET:HE2	1:C:1770:GLU:HB3	2.00	0.43
1:B:1002:GLU:OE1	1:C:1885:GLN:OE1	2.35	0.43
1:C:2172:MET:CE	1:D:2120:SER:C	2.83	0.43
1:D:2183:GLU:CG	1:E:2111:GLU:HG2	2.39	0.43
1:E:2399:ARG:HH21	1:E:2410:ARG:NH1	2.16	0.43
1:A:160:SER:HA	1:A:982:LYS:HD3	2.01	0.43
1:A:2294:PRO:HA	1:A:2295:GLY:HA2	1.74	0.43
1:B:1740:ILE:O	1:B:1741:LEU:HB2	2.18	0.43
1:B:984:THR:HG22	1:B:985:ARG:N	2.33	0.43
1:C:150:LEU:HA	1:C:150:LEU:HD23	1.68	0.43
1:C:1868:TYR:CD2	1:C:1976:ILE:HD13	2.53	0.43
1:B:2201:ALA:CB	1:C:2091:GLY:HA3	2.47	0.43
1:B:2264:GLN:OE1	1:C:2312:LEU:HD21	2.19	0.43
1:D:1706:LYS:CG	1:D:1722:GLY:HA3	2.49	0.43
1:D:2018:ARG:HG2	1:D:2467:GLY:C	2.38	0.43
1:D:2404:ALA:O	1:D:2406:LEU:N	2.51	0.43
1:E:2500:MET:HG3	1:E:2501:LEU:N	2.32	0.43
1:A:2399:ARG:HH21	1:A:2410:ARG:NH1	2.16	0.43
1:B:1055:LYS:HG3	1:B:1143:GLU:OE2	2.19	0.43
1:C:2404:ALA:O	1:C:2406:LEU:N	2.51	0.43
1:C:984:THR:HG22	1:C:985:ARG:N	2.33	0.43
1:E:160:SER:HA	1:E:982:LYS:HD2	1.99	0.43
1:A:1300:ARG:O	1:A:1585:THR:HA	2.18	0.43
1:A:2013:PHE:HB3	1:A:2014:MET:H	1.51	0.43
1:B:965:ASP:O	1:B:968:TYR:N	2.52	0.43
1:C:1055:LYS:HG3	1:C:1143:GLU:OE2	2.19	0.43
1:C:1775:THR:OG1	1:C:1776:PRO:HD3	2.19	0.43
1:C:2264:GLN:OE1	1:D:2312:LEU:HD21	2.18	0.43
1:E:1597:GLN:HG3	1:E:1601:TYR:O	2.18	0.43
1:E:965:ASP:O	1:E:968:TYR:N	2.52	0.43
1:E:160:SER:HA	1:E:982:LYS:HD3	2.01	0.43
1:E:984:THR:HG22	1:E:985:ARG:N	2.33	0.43
1:A:1055:LYS:HG3	1:A:1143:GLU:OE2	2.19	0.43
1:A:1598:TRP:CG	1:A:1599:GLN:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1775:THR:OG1	1:A:1776:PRO:HD3	2.19	0.43
1:A:1827:TRP:NE1	1:A:1846:MET:HE2	2.34	0.43
1:B:1597:GLN:HG3	1:B:1601:TYR:O	2.18	0.43
1:B:160:SER:HA	1:B:982:LYS:HD3	2.01	0.43
1:B:1706:LYS:HD2	1:B:1721:TRP:O	2.18	0.43
1:B:1951:GLN:HG3	1:B:1952:ILE:N	2.33	0.43
1:B:1868:TYR:CD2	1:B:1976:ILE:HD13	2.53	0.43
1:B:1975:SER:OG	1:B:1979:GLN:O	2.33	0.43
1:C:1097:TYR:HD2	1:C:1162:ILE:HD12	1.83	0.43
1:C:2018:ARG:HG2	1:C:2467:GLY:C	2.38	0.43
1:C:999:ARG:HE	1:C:1004:VAL:CG2	2.31	0.43
1:D:1250:TYR:OH	1:D:1294:PHE:HB2	2.18	0.43
1:D:2194:ILE:HG21	1:E:2099:TYR:HH	1.77	0.43
1:D:2222:LEU:HD11	1:E:2073:LYS:HE3	2.00	0.43
1:D:965:ASP:O	1:D:968:TYR:N	2.52	0.43
1:E:1097:TYR:HD2	1:E:1162:ILE:HD12	1.83	0.43
1:E:161:THR:O	1:E:162:LEU:HB3	2.18	0.43
1:E:1750:LEU:HA	1:E:1750:LEU:HD23	1.84	0.43
1:E:1132:ASN:HB2	1:E:1832:LEU:HD12	2.01	0.43
1:E:2515:ILE:HG22	1:E:2516:LYS:OXT	2.18	0.43
1:A:1215:PHE:CD1	1:A:1275:SER:HB3	2.54	0.43
1:A:155:MET:O	1:A:155:MET:HG2	2.18	0.43
1:A:2014:MET:HE3	1:A:2014:MET:HB2	1.98	0.43
1:A:2188:ARG:O	1:A:2192:TRP:HD1	2.02	0.43
1:A:2446:GLU:OE1	1:A:2471:PRO:HA	2.19	0.43
1:A:984:THR:HG22	1:A:985:ARG:N	2.33	0.43
1:B:1215:PHE:CD1	1:B:1275:SER:HB3	2.54	0.43
1:B:1783:LEU:HA	1:B:1783:LEU:HD23	1.69	0.43
1:A:1242:GLU:CA	1:B:1806:ILE:HG23	2.49	0.43
1:B:2412:ILE:HD12	1:B:2475:ILE:HB	2.01	0.43
1:B:2515:ILE:HG22	1:B:2516:LYS:OXT	2.18	0.43
1:C:155:MET:O	1:C:155:MET:HG2	2.18	0.43
1:C:1706:LYS:HD2	1:C:1721:TRP:O	2.18	0.43
1:D:1215:PHE:CD1	1:D:1275:SER:HB3	2.54	0.43
1:D:1300:ARG:O	1:D:1585:THR:HA	2.18	0.43
1:D:2103:TYR:HB2	1:D:2196:ARG:HH11	1.81	0.43
1:D:2515:ILE:HG22	1:D:2516:LYS:OXT	2.18	0.43
1:E:2085:LEU:HD12	1:E:2213:LEU:HD12	1.99	0.43
1:E:2294:PRO:HA	1:E:2295:GLY:HA2	1.74	0.43
1:E:2441:LEU:HD13	1:E:2446:GLU:HG3	2.01	0.43
1:A:1004:VAL:HG23	1:A:1005:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1868:TYR:CD2	1:A:1976:ILE:HD13	2.53	0.43
1:A:2091:GLY:HA3	1:E:2201:ALA:CB	2.49	0.43
1:A:2222:LEU:HD11	1:B:2073:LYS:HE3	1.99	0.43
1:A:2441:LEU:HD13	1:A:2446:GLU:HG3	2.01	0.43
1:B:1706:LYS:CG	1:B:1722:GLY:HA3	2.49	0.43
1:B:2188:ARG:O	1:B:2192:TRP:HD1	2.02	0.43
1:B:2404:ALA:O	1:B:2406:LEU:N	2.51	0.43
1:C:1004:VAL:HG23	1:C:1005:GLU:HG3	2.00	0.43
1:C:1215:PHE:CD1	1:C:1275:SER:HB3	2.54	0.43
1:C:160:SER:HA	1:C:982:LYS:HD3	2.01	0.43
1:C:2201:ALA:CB	1:D:2091:GLY:CA	2.97	0.43
1:C:2515:ILE:HG22	1:C:2516:LYS:OXT	2.18	0.43
1:C:995:LEU:CD1	1:D:1881:MET:HB3	2.48	0.43
1:D:1132:ASN:HB2	1:D:1832:LEU:HD12	2.01	0.43
1:D:1598:TRP:CG	1:D:1599:GLN:N	2.86	0.43
1:C:2201:ALA:CB	1:D:2091:GLY:HA3	2.48	0.43
1:C:2169:ALA:CB	1:D:2124:LEU:CG	2.37	0.43
1:D:2179:ILE:HG21	1:E:2114:ALA:CA	2.49	0.43
1:A:1992:PRO:HB3	1:E:1044:TYR:CE2	2.54	0.43
1:E:1204:ARG:HH21	1:E:1210:ASN:HD21	1.63	0.43
1:E:1775:THR:OG1	1:E:1776:PRO:HD3	2.19	0.43
1:E:2103:TYR:HB2	1:E:2196:ARG:HH11	1.81	0.43
1:A:1044:TYR:CE2	1:B:1992:PRO:HB3	2.54	0.43
1:A:1868:TYR:CE1	1:A:1970:LEU:HG	2.47	0.43
1:A:214:GLN:O	1:A:215:ASP:C	2.54	0.43
1:A:2471:PRO:CG	1:B:2327:ARG:HE	2.28	0.43
1:B:2446:GLU:OE1	1:B:2471:PRO:HA	2.19	0.43
1:B:974:ASP:CB	1:B:977:VAL:HG23	2.47	0.43
1:B:1242:GLU:HA	1:C:1806:ILE:HG23	2.00	0.43
1:C:2103:TYR:O	1:C:2104:ASP:HB2	2.18	0.43
1:C:214:GLN:O	1:C:215:ASP:C	2.54	0.43
1:C:2222:LEU:HA	1:C:2222:LEU:HD23	1.79	0.43
1:D:1044:TYR:OH	1:E:1992:PRO:CG	2.64	0.43
1:D:1081:TYR:HD2	1:D:1771:LEU:HD12	1.81	0.43
1:D:1952:ILE:O	1:D:1953:ASN:HB3	2.19	0.43
1:E:1124:ARG:NH2	1:E:1763:ALA:O	2.52	0.43
1:E:1706:LYS:CG	1:E:1722:GLY:HA3	2.49	0.43
1:E:1841:ALA:C	1:E:1843:HIS:H	2.22	0.43
1:E:1967:VAL:O	1:E:1970:LEU:N	2.49	0.43
1:E:1868:TYR:CD2	1:E:1976:ILE:HD13	2.53	0.43
1:A:2120:SER:C	1:E:2172:MET:CE	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2111:GLU:HG2	1:E:2183:GLU:CG	2.42	0.43
1:A:159:LEU:O	1:A:983:THR:N	2.43	0.43
1:A:2266:TYR:CE2	1:A:2297:TRP:HB2	2.54	0.43
1:B:1760:PHE:CD2	1:B:1820:PRO:CG	3.00	0.43
1:B:1841:ALA:C	1:B:1843:HIS:H	2.22	0.43
1:C:2236:SER:OG	1:D:2059:GLN:NE2	2.52	0.43
1:C:2385:THR:HG23	1:C:2490:SER:HB3	1.99	0.43
1:D:1648:PRO:CD	1:D:1745:GLU:HG3	2.45	0.43
1:D:2446:GLU:OE1	1:D:2471:PRO:HA	2.19	0.43
1:E:1055:LYS:HG3	1:E:1143:GLU:OE2	2.19	0.43
1:E:2266:TYR:CE2	1:E:2297:TRP:HB2	2.54	0.43
1:A:1124:ARG:NH2	1:A:1763:ALA:O	2.52	0.42
1:A:1132:ASN:HB2	1:A:1832:LEU:HD12	2.01	0.42
1:A:2464:PHE:CE2	1:E:2460:PHE:CB	3.02	0.42
1:B:1819:ARG:HG2	1:B:1823:GLU:OE1	2.19	0.42
1:B:1881:MET:HG3	1:B:1882:TRP:N	2.34	0.42
1:B:2202:GLU:O	1:B:2205:GLN:HB3	2.18	0.42
1:C:1124:ARG:NH2	1:C:1763:ALA:O	2.52	0.42
1:C:1204:ARG:O	1:C:1207:GLY:N	2.33	0.42
1:C:1651:ASN:O	1:C:1653:SER:N	2.52	0.42
1:C:1642:TYR:CZ	1:C:1689:THR:OG1	2.72	0.42
1:C:2412:ILE:HD12	1:C:2475:ILE:HB	2.01	0.42
1:D:1287:ARG:O	1:D:1290:SER:N	2.52	0.42
1:D:160:SER:HA	1:D:982:LYS:HD3	2.01	0.42
1:D:1740:ILE:O	1:D:1741:LEU:HB2	2.18	0.42
1:D:1976:ILE:HD12	1:D:1976:ILE:HA	1.91	0.42
1:C:2169:ALA:HB3	1:D:2124:LEU:HD22	1.61	0.42
1:E:1204:ARG:NH2	1:E:1210:ASN:ND2	2.65	0.42
1:E:1287:ARG:O	1:E:1290:SER:N	2.52	0.42
1:E:155:MET:HG2	1:E:155:MET:O	2.18	0.42
1:E:1952:ILE:O	1:E:1953:ASN:HB3	2.19	0.42
1:E:2220:ALA:O	1:E:2223:GLN:HB3	2.19	0.42
1:A:999:ARG:HE	1:A:1004:VAL:CG2	2.31	0.42
1:A:111:SER:HB3	1:A:114:SER:HB3	2.01	0.42
1:A:1097:TYR:HD2	1:A:1162:ILE:HD12	1.83	0.42
1:A:1597:GLN:HG3	1:A:1601:TYR:O	2.18	0.42
1:A:1859:LEU:HA	1:A:1859:LEU:HD12	1.71	0.42
1:A:2404:ALA:O	1:A:2406:LEU:N	2.51	0.42
1:A:965:ASP:O	1:A:968:TYR:N	2.52	0.42
1:B:1775:THR:OG1	1:B:1776:PRO:HD3	2.19	0.42
1:B:1777:MET:HE1	1:B:1852:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2253:TRP:NE1	1:C:2301:TYR:CE2	2.87	0.42
1:B:2438:LYS:HB2	1:B:2438:LYS:HE3	1.83	0.42
1:B:2441:LEU:HD13	1:B:2446:GLU:HG3	2.01	0.42
1:B:977:VAL:HG12	1:B:978:SER:O	2.18	0.42
1:C:2188:ARG:O	1:C:2192:TRP:HD1	2.02	0.42
1:C:2220:ALA:O	1:C:2223:GLN:HB3	2.19	0.42
1:D:1651:ASN:O	1:D:1653:SER:N	2.52	0.42
1:D:1750:LEU:HA	1:D:1750:LEU:HD23	1.84	0.42
1:D:1124:ARG:NH2	1:D:1763:ALA:O	2.52	0.42
1:C:2176:ALA:HA	1:D:2117:LEU:HD13	1.93	0.42
1:D:2272:ARG:HH22	1:E:2318:GLU:CB	2.32	0.42
1:C:2253:TRP:NE1	1:D:2301:TYR:HE2	2.17	0.42
1:E:111:SER:HB3	1:E:114:SER:HB3	2.01	0.42
1:A:1044:TYR:CE1	1:B:1992:PRO:HB2	2.54	0.42
1:A:161:THR:O	1:A:162:LEU:HB3	2.18	0.42
1:A:1642:TYR:CZ	1:A:1689:THR:OG1	2.72	0.42
1:A:1808:HIS:CE1	1:E:1269:ILE:C	2.89	0.42
1:A:1841:ALA:C	1:A:1843:HIS:H	2.22	0.42
1:A:1951:GLN:HG3	1:A:1952:ILE:N	2.33	0.42
1:B:1300:ARG:O	1:B:1585:THR:HA	2.18	0.42
1:B:1651:ASN:O	1:B:1653:SER:N	2.52	0.42
1:B:1662:LYS:O	1:B:1710:THR:N	2.39	0.42
1:B:2201:ALA:CB	1:C:2091:GLY:CA	2.97	0.42
1:B:2222:LEU:HD11	1:C:2073:LYS:HE3	2.01	0.42
1:C:161:THR:O	1:C:162:LEU:HB3	2.18	0.42
1:C:1706:LYS:CG	1:C:1722:GLY:HA3	2.49	0.42
1:C:2390:SER:HA	1:C:2483:THR:HA	2.02	0.42
1:D:1666:LYS:HD2	1:D:1708:TYR:CE1	2.55	0.42
1:D:1775:THR:OG1	1:D:1776:PRO:HD3	2.19	0.42
1:D:1760:PHE:CD2	1:D:1820:PRO:CG	3.00	0.42
1:D:2281:ARG:HD3	1:D:2289:ALA:O	2.19	0.42
1:A:160:SER:HA	1:A:982:LYS:HA	2.02	0.42
1:A:2359:LYS:O	1:A:2363:GLN:HG2	2.20	0.42
1:B:1046:ASP:HB2	1:B:1049:MET:HG2	2.02	0.42
1:B:1124:ARG:NH2	1:B:1763:ALA:O	2.52	0.42
1:B:1204:ARG:HH21	1:B:1210:ASN:HD21	1.63	0.42
1:B:1242:GLU:CA	1:C:1806:ILE:HG23	2.49	0.42
1:B:2216:ARG:CA	1:C:2077:GLU:OE1	2.62	0.42
1:C:1598:TRP:CG	1:C:1599:GLN:N	2.86	0.42
1:C:160:SER:HA	1:C:982:LYS:HD2	1.99	0.42
1:C:1819:ARG:HG2	1:C:1823:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1044:TYR:CE1	1:C:1992:PRO:HB2	2.55	0.42
1:C:2103:TYR:HB2	1:C:2196:ARG:HH11	1.81	0.42
1:B:2172:MET:HE1	1:C:2121:ALA:CA	2.36	0.42
1:C:965:ASP:O	1:C:968:TYR:N	2.52	0.42
1:D:161:THR:O	1:D:162:LEU:HB3	2.18	0.42
1:D:1830:ASP:HA	1:D:1831:PRO:HD2	1.83	0.42
1:A:1992:PRO:HB2	1:E:1044:TYR:CE1	2.54	0.42
1:E:1204:ARG:O	1:E:1207:GLY:N	2.33	0.42
1:A:2111:GLU:CD	1:E:2183:GLU:OE2	2.55	0.42
1:E:2446:GLU:OE1	1:E:2471:PRO:HA	2.19	0.42
1:E:94:ASN:N	1:E:94:ASN:HD22	2.18	0.42
1:A:103:TYR:CD1	1:A:1950:PRO:HG2	2.54	0.42
1:A:2179:ILE:HG21	1:B:2114:ALA:CA	2.49	0.42
1:A:2515:ILE:HG22	1:A:2516:LYS:OXT	2.18	0.42
1:B:100:ALA:CB	1:B:1950:PRO:HG3	2.44	0.42
1:A:2165:MET:HG3	1:B:2124:LEU:HG	2.02	0.42
1:B:2370:SER:O	1:B:2374:ASN:HB3	2.20	0.42
1:C:2281:ARG:HD3	1:C:2289:ALA:O	2.19	0.42
1:D:1046:ASP:HB2	1:D:1049:MET:HG2	2.02	0.42
1:D:1642:TYR:CZ	1:D:1689:THR:OG1	2.72	0.42
1:D:1881:MET:HG3	1:D:1882:TRP:N	2.34	0.42
1:D:2220:ALA:O	1:D:2223:GLN:HB3	2.19	0.42
1:D:2370:SER:O	1:D:2374:ASN:HB3	2.20	0.42
1:D:929:GLN:O	1:D:932:ASN:HB2	2.20	0.42
1:E:1004:VAL:HG23	1:E:1005:GLU:HG3	2.00	0.42
1:E:1016:GLN:OE1	1:E:1019:ILE:HB	2.20	0.42
1:E:1165:SER:O	1:E:1165:SER:OG	2.35	0.42
1:E:1805:TYR:HD2	1:E:1814:TYR:CE2	2.37	0.42
1:A:1016:GLN:OE1	1:A:1019:ILE:HB	2.20	0.42
1:A:1651:ASN:O	1:A:1653:SER:N	2.52	0.42
1:A:2438:LYS:HE3	1:A:2438:LYS:HB2	1.83	0.42
1:A:94:ASN:N	1:A:94:ASN:HD22	2.18	0.42
1:B:1665:ILE:CG2	1:B:1674:HIS:HD2	2.32	0.42
1:B:1750:LEU:HD23	1:B:1750:LEU:HA	1.84	0.42
1:B:1805:TYR:HD2	1:B:1814:TYR:CE2	2.37	0.42
1:B:2266:TYR:CE2	1:B:2297:TRP:HB2	2.54	0.42
1:B:160:SER:HA	1:B:982:LYS:HA	2.02	0.42
1:C:1740:ILE:O	1:C:1741:LEU:HB2	2.18	0.42
1:C:1952:ILE:O	1:C:1953:ASN:HB3	2.19	0.42
1:C:2272:ARG:HH22	1:D:2318:GLU:CB	2.32	0.42
1:C:2446:GLU:OE1	1:C:2471:PRO:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1004:VAL:HG23	1:D:1005:GLU:HG3	2.00	0.42
1:D:1204:ARG:O	1:D:1207:GLY:N	2.33	0.42
1:E:129:LEU:HD23	1:E:129:LEU:HA	1.83	0.42
1:E:1642:TYR:CZ	1:E:1689:THR:OG1	2.72	0.42
1:E:2281:ARG:HD3	1:E:2289:ALA:O	2.19	0.42
1:A:1805:TYR:HD2	1:A:1814:TYR:CE2	2.37	0.42
1:A:1819:ARG:HG2	1:A:1823:GLU:OE1	2.20	0.42
1:A:1974:LEU:O	1:A:1975:SER:OG	2.32	0.42
1:A:1989:PRO:HA	1:E:1029:SER:O	2.20	0.42
1:A:2281:ARG:HD3	1:A:2289:ALA:O	2.19	0.42
1:A:2323:LYS:HG2	1:E:2013:PHE:CE1	2.51	0.42
1:A:2403:PRO:HB3	1:E:2383:THR:HG23	2.02	0.42
1:A:2412:ILE:HD12	1:A:2475:ILE:HB	2.01	0.42
1:A:929:GLN:O	1:A:932:ASN:HB2	2.20	0.42
1:B:1287:ARG:O	1:B:1290:SER:N	2.52	0.42
1:B:160:SER:HG	1:B:982:LYS:CE	2.03	0.42
1:B:1827:TRP:NE1	1:B:1846:MET:HE2	2.34	0.42
1:B:1952:ILE:O	1:B:1953:ASN:HB3	2.19	0.42
1:B:2281:ARG:HD3	1:B:2289:ALA:O	2.19	0.42
1:B:900:LEU:HA	1:B:908:GLU:HB3	2.02	0.42
1:C:111:SER:HB3	1:C:114:SER:HB3	2.01	0.42
1:C:1132:ASN:HB2	1:C:1832:LEU:HD12	2.01	0.42
1:C:1287:ARG:O	1:C:1290:SER:N	2.52	0.42
1:C:1881:MET:HG3	1:C:1882:TRP:N	2.34	0.42
1:C:2266:TYR:CE2	1:C:2297:TRP:HB2	2.54	0.42
1:C:93:ASN:O	1:C:97:SER:HB3	2.19	0.42
1:D:1082:LEU:HD23	1:D:1082:LEU:HA	1.74	0.42
1:D:1196:TYR:N	1:D:1218:ASN:OD1	2.41	0.42
1:D:1841:ALA:C	1:D:1843:HIS:H	2.22	0.42
1:D:2195:GLN:O	1:D:2198:ASN:HB3	2.20	0.42
1:D:2281:ARG:HD2	1:D:2287:ASP:HA	2.02	0.42
1:D:93:ASN:O	1:D:97:SER:HB3	2.19	0.42
1:E:1830:ASP:OD1	1:E:1830:ASP:N	2.42	0.42
1:E:1881:MET:HG3	1:E:1882:TRP:N	2.34	0.42
1:E:100:ALA:CB	1:E:1950:PRO:HG3	2.44	0.42
1:E:2188:ARG:O	1:E:2192:TRP:HD1	2.02	0.42
1:E:2370:SER:O	1:E:2374:ASN:HB3	2.20	0.42
1:A:141:ARG:NH2	1:A:1005:GLU:OE2	2.38	0.42
1:A:1046:ASP:HB2	1:A:1049:MET:HG2	2.02	0.42
1:A:1109:TYR:CE2	1:A:1162:ILE:HD11	2.55	0.42
1:A:160:SER:N	1:A:982:LYS:HD2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1758:MET:HG3	1:A:1760:PHE:HE1	1.85	0.42
1:B:1642:TYR:CZ	1:B:1689:THR:OG1	2.72	0.42
1:B:1726:VAL:HG22	1:B:1734:THR:O	2.20	0.42
1:B:1758:MET:HG3	1:B:1760:PHE:HE1	1.85	0.42
1:B:1858:ASP:O	1:B:1862:ALA:CB	2.68	0.42
1:B:2195:GLN:O	1:B:2198:ASN:HB3	2.20	0.42
1:C:1046:ASP:HB2	1:C:1049:MET:HG2	2.02	0.42
1:C:2441:LEU:HD13	1:C:2446:GLU:HG3	2.01	0.42
1:D:1016:GLN:OE1	1:D:1019:ILE:HB	2.20	0.42
1:D:1055:LYS:HG3	1:D:1143:GLU:OE2	2.19	0.42
1:D:1053:GLN:NE2	1:D:1058:ASP:OD1	2.53	0.42
1:D:1736:ASN:HB3	1:D:1738:LYS:HZ1	1.84	0.42
1:D:2172:MET:HE1	1:E:2120:SER:C	2.40	0.42
1:D:2039:THR:HG23	1:D:2258:LEU:HD21	2.02	0.42
1:E:1082:LEU:HD23	1:E:1082:LEU:HA	1.74	0.42
1:E:1198:LEU:HD11	1:E:1215:PHE:HD2	1.85	0.42
1:E:160:SER:N	1:E:982:LYS:HD2	2.35	0.42
1:E:182:TYR:O	1:E:185:VAL:N	2.50	0.42
1:E:2122:ALA:O	1:E:2125:THR:OG1	2.26	0.42
1:E:2359:LYS:O	1:E:2363:GLN:HG2	2.20	0.42
1:E:160:SER:HA	1:E:982:LYS:HA	2.02	0.42
1:A:1750:LEU:HA	1:A:1750:LEU:HD23	1.84	0.42
1:A:2220:ALA:O	1:A:2223:GLN:HB3	2.19	0.42
1:B:1648:PRO:CD	1:B:1745:GLU:HG3	2.45	0.42
1:C:1805:TYR:HD2	1:C:1814:TYR:CE2	2.37	0.42
1:C:2079:ASP:O	1:C:2082:LYS:HB3	2.20	0.42
1:C:2179:ILE:HG21	1:D:2114:ALA:CA	2.50	0.42
1:C:2023:LEU:HD21	1:C:2318:GLU:HB2	2.01	0.42
1:B:2471:PRO:CG	1:C:2327:ARG:HE	2.30	0.42
1:C:900:LEU:HA	1:C:908:GLU:HB3	2.02	0.42
1:D:1610:ALA:O	1:D:1614:VAL:HG23	2.20	0.42
1:D:1868:TYR:CE1	1:D:1970:LEU:HG	2.47	0.42
1:D:2188:ARG:O	1:D:2192:TRP:CD1	2.73	0.42
1:D:2266:TYR:CE2	1:D:2297:TRP:HB2	2.54	0.42
1:D:2023:LEU:HD21	1:D:2318:GLU:HB2	2.01	0.42
1:D:900:LEU:HA	1:D:908:GLU:HB3	2.02	0.42
1:E:1030:THR:O	1:E:1033:GLY:N	2.53	0.42
1:E:1215:PHE:CD1	1:E:1275:SER:HB3	2.54	0.42
1:E:1282:GLN:O	1:E:1285:VAL:HG12	2.20	0.42
1:E:1651:ASN:O	1:E:1653:SER:N	2.52	0.42
1:E:1819:ARG:HG2	1:E:1823:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2165:MET:CG	1:E:2124:LEU:HG	2.49	0.42
1:E:2188:ARG:O	1:E:2192:TRP:CD1	2.73	0.42
1:E:2222:LEU:HD23	1:E:2222:LEU:HA	1.79	0.42
1:A:2059:GLN:NE2	1:E:2236:SER:OG	2.53	0.42
1:E:900:LEU:HA	1:E:908:GLU:HB3	2.02	0.42
1:A:1726:VAL:HG22	1:A:1734:THR:O	2.20	0.42
1:A:1881:MET:HG3	1:A:1882:TRP:N	2.34	0.42
1:A:2327:ARG:HE	1:E:2471:PRO:CG	2.30	0.42
1:A:2383:THR:HG23	1:B:2403:PRO:HB3	2.02	0.42
1:A:2460:PHE:CZ	1:B:2330:GLU:CB	3.03	0.42
1:B:1030:THR:O	1:B:1033:GLY:N	2.53	0.42
1:B:1124:ARG:NE	1:B:1142:SER:O	2.53	0.42
1:B:1706:LYS:NZ	1:B:1720:TRP:O	2.33	0.42
1:B:2079:ASP:O	1:B:2082:LYS:HB3	2.20	0.42
1:B:2220:ALA:O	1:B:2223:GLN:HB3	2.19	0.42
1:B:93:ASN:O	1:B:97:SER:HB3	2.19	0.42
1:C:1282:GLN:O	1:C:1285:VAL:HG12	2.20	0.42
1:C:1974:LEU:O	1:C:1975:SER:OG	2.32	0.42
1:C:2195:GLN:O	1:C:2198:ASN:HB3	2.20	0.42
1:C:2281:ARG:HD2	1:C:2287:ASP:HA	2.02	0.42
1:C:2359:LYS:O	1:C:2363:GLN:HG2	2.20	0.42
1:B:2460:PHE:CB	1:C:2464:PHE:CE2	3.03	0.42
1:C:935:HIS:O	1:C:939:ASP:HB2	2.20	0.42
1:D:1777:MET:HE1	1:D:1852:THR:HG23	2.01	0.42
1:D:2284:LEU:HD21	1:D:2324:ARG:CB	2.50	0.42
1:D:2359:LYS:O	1:D:2363:GLN:HG2	2.20	0.42
1:E:1196:TYR:N	1:E:1218:ASN:OD1	2.41	0.42
1:E:150:LEU:HD23	1:E:150:LEU:HA	1.68	0.42
1:E:1798:TYR:O	1:E:1817:ASN:HB3	2.20	0.42
1:E:1777:MET:HE1	1:E:1852:THR:HG23	2.01	0.42
1:E:103:TYR:CD1	1:E:1950:PRO:HG2	2.54	0.42
1:E:2039:THR:HG23	1:E:2258:LEU:HD21	2.02	0.42
1:A:1053:GLN:NE2	1:A:1058:ASP:OD1	2.53	0.41
1:A:1830:ASP:HA	1:A:1831:PRO:HD2	1.83	0.41
1:A:1833:ASP:OD1	1:A:1834:SER:N	2.49	0.41
1:B:111:SER:HB3	1:B:114:SER:HB3	2.01	0.41
1:B:161:THR:O	1:B:162:LEU:HB3	2.18	0.41
1:B:2312:LEU:HD12	1:B:2312:LEU:HA	1.74	0.41
1:B:2359:LYS:O	1:B:2363:GLN:HG2	2.20	0.41
1:C:2210:LEU:HA	1:C:2210:LEU:HD23	1.87	0.41
1:C:974:ASP:CB	1:C:977:VAL:HG23	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1805:TYR:HD2	1:D:1814:TYR:CE2	2.37	0.41
1:D:1798:TYR:O	1:D:1817:ASN:HB3	2.20	0.41
1:D:1819:ARG:HG2	1:D:1823:GLU:OE1	2.20	0.41
1:D:2079:ASP:O	1:D:2082:LYS:HB3	2.20	0.41
1:D:2121:ALA:O	1:D:2124:LEU:HB3	2.20	0.41
1:E:1046:ASP:HB2	1:E:1049:MET:HG2	2.02	0.41
1:E:1092:LYS:HA	1:E:1594:GLN:NE2	2.24	0.41
1:D:1002:GLU:HG2	1:E:1882:TRP:CH2	2.54	0.41
1:D:115:PRO:CB	1:E:1986:TYR:CE1	3.02	0.41
1:E:2195:GLN:O	1:E:2198:ASN:HB3	2.20	0.41
1:A:2330:GLU:CB	1:E:2460:PHE:CZ	3.02	0.41
1:E:972:LEU:HD11	1:E:996:TYR:HB2	2.02	0.41
1:A:104:VAL:HG12	1:A:105:ALA:O	2.20	0.41
1:A:1124:ARG:NE	1:A:1142:SER:O	2.53	0.41
1:A:1204:ARG:HG3	1:A:1208:THR:O	2.20	0.41
1:A:1204:ARG:HH21	1:A:1210:ASN:HD21	1.62	0.41
1:A:1809:GLY:C	1:A:1810:GLN:O	2.59	0.41
1:A:182:TYR:O	1:A:185:VAL:N	2.50	0.41
1:A:2023:LEU:HD21	1:A:2318:GLU:HB2	2.01	0.41
1:A:93:ASN:O	1:A:97:SER:HB3	2.19	0.41
1:B:1132:ASN:HB2	1:B:1832:LEU:HD12	2.01	0.41
1:B:1666:LYS:HD2	1:B:1708:TYR:CE1	2.55	0.41
1:B:2121:ALA:O	1:B:2124:LEU:HB3	2.20	0.41
1:B:2179:ILE:HG21	1:C:2114:ALA:CA	2.50	0.41
1:B:2023:LEU:HD21	1:B:2318:GLU:HB2	2.01	0.41
1:B:972:LEU:HD11	1:B:996:TYR:HB2	2.03	0.41
1:C:1204:ARG:NH2	1:C:1210:ASN:OD1	2.42	0.41
1:C:1827:TRP:HZ3	1:C:1847:HIS:CE1	2.38	0.41
1:B:1026:LYS:NZ	1:C:1878:GLU:OE1	2.48	0.41
1:C:209:GLU:O	1:C:210:VAL:C	2.58	0.41
1:C:2370:SER:O	1:C:2374:ASN:HB3	2.20	0.41
1:C:2458:GLY:O	1:D:2330:GLU:HB2	2.20	0.41
1:D:1124:ARG:NE	1:D:1142:SER:O	2.53	0.41
1:D:111:SER:HB3	1:D:114:SER:HB3	2.01	0.41
1:D:160:SER:N	1:D:982:LYS:HD2	2.35	0.41
1:C:1032:ALA:CB	1:D:1989:PRO:HB3	2.48	0.41
1:D:2372:ASN:ND2	1:D:2392:SER:HB2	2.36	0.41
1:E:1726:VAL:HG22	1:E:1734:THR:O	2.20	0.41
1:A:1030:THR:O	1:A:1033:GLY:N	2.53	0.41
1:A:161:THR:HB	1:A:983:THR:HG22	2.03	0.41
1:A:1798:TYR:O	1:A:1817:ASN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1952:ILE:O	1:A:1953:ASN:HB3	2.19	0.41
1:A:2104:ASP:OD1	1:A:2104:ASP:N	2.53	0.41
1:A:2188:ARG:O	1:A:2192:TRP:CD1	2.73	0.41
1:B:104:VAL:HG12	1:B:105:ALA:O	2.20	0.41
1:A:1242:GLU:HA	1:B:1806:ILE:HG23	2.00	0.41
1:B:1824:ASP:OD2	1:B:1846:MET:HG2	2.21	0.41
1:B:1827:TRP:HZ3	1:B:1847:HIS:CE1	2.38	0.41
1:A:2383:THR:CG2	1:B:2403:PRO:HB3	2.50	0.41
1:B:2460:PHE:CZ	1:C:2330:GLU:CB	3.02	0.41
1:B:995:LEU:CD1	1:C:1881:MET:HB3	2.50	0.41
1:C:1001:LEU:HA	1:C:1001:LEU:HD23	1.86	0.41
1:C:1124:ARG:NE	1:C:1142:SER:O	2.53	0.41
1:C:160:SER:HA	1:C:982:LYS:HA	2.02	0.41
1:C:1633:GLN:N	1:C:1633:GLN:OE1	2.53	0.41
1:C:1726:VAL:HG22	1:C:1734:THR:O	2.20	0.41
1:C:1830:ASP:HA	1:C:1831:PRO:HD2	1.83	0.41
1:C:2104:ASP:N	1:C:2104:ASP:OD1	2.53	0.41
1:C:2121:ALA:O	1:C:2124:LEU:HB3	2.20	0.41
1:C:2460:PHE:CE2	1:D:2330:GLU:HG3	2.47	0.41
1:C:929:GLN:O	1:C:932:ASN:HB2	2.20	0.41
1:D:160:SER:HA	1:D:982:LYS:HA	2.02	0.41
1:D:1665:ILE:CG2	1:D:1674:HIS:HD2	2.32	0.41
1:D:2188:ARG:O	1:D:2192:TRP:HD1	2.02	0.41
1:D:2441:LEU:HD13	1:D:2446:GLU:HG3	2.01	0.41
1:E:1723:PRO:HD3	1:E:1744:PHE:CE2	2.52	0.41
1:D:1002:GLU:HG2	1:E:1882:TRP:HH2	1.84	0.41
1:A:1665:ILE:CG2	1:A:1674:HIS:HD2	2.32	0.41
1:A:2210:LEU:HA	1:A:2210:LEU:HD23	1.87	0.41
1:A:2372:ASN:ND2	1:A:2392:SER:HB2	2.36	0.41
1:A:2441:LEU:HD13	1:A:2446:GLU:CG	2.51	0.41
1:B:1109:TYR:CE2	1:B:1162:ILE:HD11	2.55	0.41
1:B:2165:MET:HG3	1:C:2124:LEU:HG	2.00	0.41
1:C:1758:MET:HG3	1:C:1760:PHE:HE1	1.85	0.41
1:C:2039:THR:HG23	1:C:2258:LEU:HD21	2.02	0.41
1:C:2468:LYS:CD	1:D:2327:ARG:HH11	2.28	0.41
1:D:1030:THR:O	1:D:1033:GLY:N	2.53	0.41
1:D:1198:LEU:HD11	1:D:1215:PHE:HD2	1.85	0.41
1:D:103:TYR:CD1	1:D:1950:PRO:HG2	2.54	0.41
1:D:2021:HIS:O	1:D:2024:GLU:HG2	2.21	0.41
1:C:2165:MET:CG	1:D:2124:LEU:HG	2.50	0.41
1:D:94:ASN:HD22	1:D:94:ASN:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:161:THR:HB	1:D:983:THR:HG22	2.03	0.41
1:E:1109:TYR:CE2	1:E:1162:ILE:HD11	2.55	0.41
1:A:1072:ASP:HB2	1:E:1204:ARG:NH1	2.36	0.41
1:E:161:THR:HB	1:E:983:THR:HG22	2.02	0.41
1:E:1649:PRO:HD3	1:E:1685:ASN:OD1	2.21	0.41
1:E:1809:GLY:C	1:E:1810:GLN:O	2.59	0.41
1:E:2104:ASP:OD1	1:E:2104:ASP:N	2.53	0.41
1:E:2404:ALA:O	1:E:2406:LEU:N	2.51	0.41
1:E:93:ASN:O	1:E:97:SER:HB3	2.19	0.41
1:A:1002:GLU:HG2	1:B:1882:TRP:HH2	1.85	0.41
1:A:1225:LYS:HG3	1:A:1251:ASN:ND2	2.36	0.41
1:A:1282:GLN:O	1:A:1285:VAL:HG12	2.20	0.41
1:A:2021:HIS:O	1:A:2024:GLU:HG2	2.21	0.41
1:B:1044:TYR:CE2	1:C:1992:PRO:HB3	2.55	0.41
1:B:1053:GLN:NE2	1:B:1058:ASP:OD1	2.53	0.41
1:B:1103:ASN:ND2	1:B:1598:TRP:CE2	2.83	0.41
1:B:1097:TYR:HD2	1:B:1162:ILE:HD12	1.83	0.41
1:B:1747:VAL:HG23	1:B:1747:VAL:O	2.21	0.41
1:B:182:TYR:O	1:B:185:VAL:N	2.50	0.41
1:A:2233:GLN:NE2	1:B:2059:GLN:O	2.52	0.41
1:B:2188:ARG:O	1:B:2192:TRP:CD1	2.73	0.41
1:B:2287:ASP:OD1	1:B:2287:ASP:N	2.54	0.41
1:B:2277:GLU:OE2	1:B:2290:ARG:HA	2.21	0.41
1:A:2013:PHE:CE1	1:B:2323:LYS:HG2	2.51	0.41
1:C:1030:THR:O	1:C:1033:GLY:N	2.53	0.41
1:C:2156:ALA:O	1:C:2159:GLU:HB2	2.21	0.41
1:C:2277:GLU:OE2	1:C:2290:ARG:HA	2.20	0.41
1:D:1726:VAL:HG22	1:D:1734:THR:O	2.20	0.41
1:D:1974:LEU:HA	1:D:1974:LEU:HD23	1.85	0.41
1:D:2277:GLU:OE2	1:D:2290:ARG:HA	2.21	0.41
1:C:2460:PHE:CG	1:D:2464:PHE:HE2	2.39	0.41
1:E:1108:THR:HB	1:E:1126:VAL:CG1	2.51	0.41
1:E:1124:ARG:NE	1:E:1142:SER:O	2.53	0.41
1:E:1225:LYS:HG3	1:E:1251:ASN:ND2	2.36	0.41
1:E:1827:TRP:HZ3	1:E:1847:HIS:CE1	2.38	0.41
1:E:2014:MET:HB2	1:E:2014:MET:HE3	1.95	0.41
1:E:2441:LEU:HD13	1:E:2446:GLU:CG	2.51	0.41
1:A:1747:VAL:O	1:A:1747:VAL:HG23	2.21	0.41
1:A:1976:ILE:HD12	1:A:1976:ILE:HA	1.91	0.41
1:A:1986:TYR:CE1	1:E:115:PRO:CB	3.03	0.41
1:A:2039:THR:HG23	1:A:2258:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2403:PRO:HB3	1:E:2383:THR:CG2	2.50	0.41
1:A:2417:VAL:HG22	1:A:2509:LEU:CD2	2.51	0.41
1:B:1016:GLN:OE1	1:B:1019:ILE:HB	2.20	0.41
1:B:1587:HIS:HB2	1:B:1595:TYR:CZ	2.56	0.41
1:B:1983:LEU:HD23	1:B:1983:LEU:HA	1.81	0.41
1:B:2281:ARG:HD2	1:B:2287:ASP:HA	2.02	0.41
1:B:935:HIS:O	1:B:939:ASP:HB2	2.20	0.41
1:C:1109:TYR:CE2	1:C:1162:ILE:HD11	2.55	0.41
1:C:160:SER:N	1:C:982:LYS:HD2	2.35	0.41
1:C:1747:VAL:HG23	1:C:1747:VAL:O	2.21	0.41
1:C:2188:ARG:O	1:C:2192:TRP:CD1	2.73	0.41
1:C:161:THR:HB	1:C:983:THR:HG22	2.03	0.41
1:D:169:LEU:HA	1:D:169:LEU:HD23	1.85	0.41
1:C:2187:ARG:HH11	1:D:2108:ASN:ND2	2.17	0.41
1:D:2264:GLN:OE1	1:E:2312:LEU:CD2	2.68	0.41
1:D:977:VAL:HG13	1:E:1971:ARG:O	2.21	0.41
1:E:1053:GLN:NE2	1:E:1058:ASP:OD1	2.53	0.41
1:E:1610:ALA:O	1:E:1614:VAL:HG23	2.20	0.41
1:E:2121:ALA:O	1:E:2124:LEU:HB3	2.20	0.41
1:E:2284:LEU:HD21	1:E:2324:ARG:CB	2.50	0.41
1:D:2460:PHE:CG	1:E:2464:PHE:HE2	2.39	0.41
1:E:2412:ILE:HD12	1:E:2475:ILE:HB	2.01	0.41
1:E:2417:VAL:HG22	1:E:2509:LEU:CD2	2.51	0.41
1:A:1010:SER:OG	1:A:1240:GLN:NE2	2.54	0.41
1:A:1824:ASP:OD2	1:A:1846:MET:HG2	2.21	0.41
1:A:1963:LEU:HA	1:A:1963:LEU:HD23	1.79	0.41
1:A:2195:GLN:O	1:A:2198:ASN:HB3	2.20	0.41
1:B:1610:ALA:O	1:B:1614:VAL:HG23	2.20	0.41
1:B:161:THR:HB	1:B:983:THR:HG22	2.03	0.41
1:B:1660:TRP:CG	1:B:1661:PHE:N	2.84	0.41
1:B:209:GLU:O	1:B:210:VAL:C	2.58	0.41
1:A:2165:MET:CG	1:B:2124:LEU:HG	2.51	0.41
1:B:2172:MET:HE3	1:C:2120:SER:C	2.31	0.41
1:B:2383:THR:CG2	1:C:2403:PRO:HB3	2.50	0.41
1:C:1053:GLN:NE2	1:C:1058:ASP:OD1	2.53	0.41
1:C:1587:HIS:HB2	1:C:1595:TYR:CZ	2.56	0.41
1:D:1008:ALA:CB	1:D:1013:ILE:HD11	2.51	0.41
1:D:1109:TYR:CE2	1:D:1162:ILE:HD11	2.55	0.41
1:D:1097:TYR:HD2	1:D:1162:ILE:HD12	1.83	0.41
1:D:1282:GLN:O	1:D:1285:VAL:HG12	2.20	0.41
1:D:2412:ILE:HD12	1:D:2475:ILE:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2417:VAL:HG22	1:D:2509:LEU:CD2	2.51	0.41
1:E:1132:ASN:HB2	1:E:1832:LEU:CD1	2.51	0.41
1:E:1204:ARG:HG3	1:E:1208:THR:O	2.20	0.41
1:E:1868:TYR:CE1	1:E:1970:LEU:HG	2.47	0.41
1:E:209:GLU:O	1:E:210:VAL:C	2.58	0.41
1:E:2280:TYR:HE2	1:E:2291:PHE:HE2	1.69	0.41
1:E:2372:ASN:ND2	1:E:2392:SER:HB2	2.36	0.41
1:E:947:SER:OG	1:E:964:ARG:HG3	2.21	0.41
1:A:1108:THR:HB	1:A:1126:VAL:CG1	2.51	0.41
1:A:100:ALA:CB	1:A:1950:PRO:HG3	2.44	0.41
1:A:1974:LEU:HA	1:A:1974:LEU:HD23	1.85	0.41
1:A:2079:ASP:O	1:A:2082:LYS:HB3	2.20	0.41
1:A:2314:LEU:N	1:A:2314:LEU:HD12	2.36	0.41
1:A:2390:SER:HA	1:A:2483:THR:HA	2.02	0.41
1:B:106:PRO:HA	1:B:1951:GLN:OE1	2.21	0.41
1:B:1198:LEU:HD11	1:B:1215:PHE:HD2	1.85	0.41
1:B:1225:LYS:HG3	1:B:1251:ASN:ND2	2.36	0.41
1:B:1974:LEU:HD23	1:B:1974:LEU:HA	1.85	0.41
1:B:2294:PRO:HA	1:B:2295:GLY:HA2	1.74	0.41
1:B:160:SER:N	1:B:982:LYS:HD2	2.35	0.41
1:C:1225:LYS:HG3	1:C:1251:ASN:ND2	2.36	0.41
1:C:1858:ASP:O	1:C:1862:ALA:CB	2.68	0.41
1:C:1868:TYR:HE1	1:C:1970:LEU:CG	2.30	0.41
1:D:1108:THR:OG1	1:D:1128:HIS:NE2	2.30	0.41
1:D:1132:ASN:HB2	1:D:1832:LEU:CD1	2.51	0.41
1:D:1599:GLN:HG3	1:D:1600:SER:H	1.86	0.41
1:D:1747:VAL:O	1:D:1747:VAL:HG23	2.21	0.41
1:D:1868:TYR:HE1	1:D:1970:LEU:CG	2.30	0.41
1:C:115:PRO:CB	1:D:1986:TYR:CE1	3.04	0.41
1:D:947:SER:OG	1:D:964:ARG:HG3	2.21	0.41
1:E:1103:ASN:ND2	1:E:1598:TRP:CG	2.76	0.41
1:E:1824:ASP:OD2	1:E:1846:MET:HG2	2.21	0.41
1:A:2073:LYS:HE3	1:E:2222:LEU:HD11	2.01	0.41
1:E:2277:GLU:OE2	1:E:2290:ARG:HA	2.21	0.41
1:E:974:ASP:CB	1:E:977:VAL:HG23	2.47	0.41
1:A:129:LEU:HD23	1:A:129:LEU:HA	1.84	0.41
1:A:1660:TRP:CD2	1:A:1680:GLN:HB3	2.46	0.41
1:A:1800:TRP:CD1	1:A:1816:TRP:CZ2	3.09	0.41
1:A:106:PRO:HA	1:A:1951:GLN:OE1	2.21	0.41
1:A:2121:ALA:O	1:A:2124:LEU:HB3	2.20	0.41
1:A:2282:TRP:CZ2	1:A:2474:GLY:HA3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:150:LEU:HA	1:B:150:LEU:HD23	1.68	0.41
1:B:2021:HIS:O	1:B:2024:GLU:HG2	2.21	0.41
1:B:2337:LEU:HG	1:B:2391:VAL:HG21	2.03	0.41
1:B:929:GLN:O	1:B:932:ASN:HB2	2.20	0.41
1:B:947:SER:OG	1:B:964:ARG:HG3	2.21	0.41
1:C:1798:TYR:O	1:C:1817:ASN:HB3	2.20	0.41
1:C:1760:PHE:CD2	1:C:1820:PRO:CG	3.00	0.41
1:B:1032:ALA:CB	1:C:1989:PRO:HB3	2.48	0.41
1:C:2287:ASP:OD1	1:C:2287:ASP:N	2.54	0.41
1:C:2417:VAL:HG22	1:C:2509:LEU:CD2	2.51	0.41
1:C:2441:LEU:HD13	1:C:2446:GLU:CG	2.51	0.41
1:D:141:ARG:NH2	1:D:1005:GLU:OE2	2.38	0.41
1:D:1824:ASP:OD2	1:D:1846:MET:HG2	2.21	0.41
1:D:1827:TRP:HZ3	1:D:1847:HIS:CE1	2.38	0.41
1:D:2337:LEU:HG	1:D:2391:VAL:HG21	2.03	0.41
1:E:1665:ILE:CG2	1:E:1674:HIS:HD2	2.32	0.41
1:E:2281:ARG:HD2	1:E:2287:ASP:HA	2.02	0.41
1:E:2023:LEU:HD21	1:E:2318:GLU:HB2	2.01	0.41
1:E:2282:TRP:CZ2	1:E:2474:GLY:HA3	2.56	0.41
1:E:929:GLN:O	1:E:932:ASN:HB2	2.20	0.41
1:A:1825:THR:HA	1:A:1846:MET:SD	2.61	0.41
1:A:209:GLU:O	1:A:210:VAL:C	2.58	0.41
1:A:2102:LEU:HB2	1:A:2192:TRP:CE3	2.55	0.41
1:A:2250:LEU:HD23	1:A:2251:TYR:N	2.36	0.41
1:A:2370:SER:O	1:A:2374:ASN:HB3	2.20	0.41
1:B:1204:ARG:HG3	1:B:1208:THR:O	2.20	0.41
1:B:1649:PRO:HD3	1:B:1685:ASN:OD1	2.21	0.41
1:B:1798:TYR:O	1:B:1817:ASN:HB3	2.20	0.41
1:B:2142:PRO:HA	1:B:2143:ASN:HA	1.72	0.41
1:B:2156:ALA:O	1:B:2159:GLU:HB2	2.21	0.41
1:B:2039:THR:HG23	1:B:2258:LEU:HD21	2.02	0.41
1:C:104:VAL:HG12	1:C:105:ALA:O	2.20	0.41
1:C:1198:LEU:HD11	1:C:1215:PHE:HD2	1.85	0.41
1:C:1599:GLN:HG3	1:C:1600:SER:H	1.86	0.41
1:C:2282:TRP:CZ2	1:C:2474:GLY:HA3	2.56	0.41
1:C:2372:ASN:ND2	1:C:2392:SER:HB2	2.36	0.41
1:C:2337:LEU:HG	1:C:2391:VAL:HG21	2.03	0.41
1:D:1649:PRO:HD3	1:D:1685:ASN:OD1	2.21	0.41
1:D:106:PRO:HA	1:D:1951:GLN:OE1	2.21	0.41
1:D:2250:LEU:HD23	1:D:2251:TYR:N	2.36	0.41
1:D:93:ASN:OD1	1:D:1894:PRO:CD	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1758:MET:HG3	1:E:1760:PHE:HE1	1.85	0.41
1:E:2021:HIS:O	1:E:2024:GLU:HG2	2.21	0.41
1:D:2187:ARG:HH11	1:E:2108:ASN:ND2	2.19	0.41
1:A:1599:GLN:HG3	1:A:1600:SER:H	1.86	0.41
1:B:1204:ARG:NH1	1:C:1072:ASP:HB2	2.35	0.41
1:B:1868:TYR:CE1	1:B:1970:LEU:HG	2.47	0.41
1:B:2390:SER:HA	1:B:2483:THR:HA	2.02	0.41
1:B:2441:LEU:HD13	1:B:2446:GLU:CG	2.51	0.41
1:C:1016:GLN:OE1	1:C:1019:ILE:HB	2.20	0.41
1:C:1098:HIS:CE1	1:C:1128:HIS:CD2	3.09	0.41
1:C:1610:ALA:O	1:C:1614:VAL:HG23	2.20	0.41
1:C:2021:HIS:O	1:C:2024:GLU:HG2	2.21	0.41
1:D:1758:MET:HG3	1:D:1760:PHE:HE1	1.85	0.41
1:D:1827:TRP:NE1	1:D:1846:MET:HE2	2.35	0.41
1:E:104:VAL:HG12	1:E:105:ALA:O	2.20	0.41
1:E:1155:LYS:HG3	1:E:1156:SER:N	2.29	0.41
1:E:2142:PRO:HA	1:E:2143:ASN:HA	1.72	0.41
1:A:2091:GLY:CA	1:E:2201:ALA:CB	2.99	0.41
1:E:2390:SER:HA	1:E:2483:THR:HA	2.02	0.41
1:A:1100:ASN:ND2	1:A:1105:GLN:HB2	2.37	0.40
1:A:1204:ARG:O	1:A:1207:GLY:N	2.33	0.40
1:A:1287:ARG:O	1:A:1290:SER:N	2.52	0.40
1:A:174:LYS:HE3	1:A:174:LYS:HB3	1.93	0.40
1:A:2277:GLU:OE2	1:A:2290:ARG:HA	2.21	0.40
1:A:2337:LEU:HG	1:A:2391:VAL:HG21	2.03	0.40
1:A:2440:GLY:O	1:A:2441:LEU:HG	2.22	0.40
1:A:948:THR:O	1:A:951:ILE:HB	2.21	0.40
1:B:1098:HIS:CE1	1:B:1128:HIS:CD2	3.09	0.40
1:B:1599:GLN:HG3	1:B:1600:SER:H	1.86	0.40
1:B:1809:GLY:C	1:B:1810:GLN:O	2.59	0.40
1:C:1008:ALA:CB	1:C:1013:ILE:HD11	2.51	0.40
1:C:118:TYR:HD1	1:C:1031:TRP:CD2	2.40	0.40
1:C:1204:ARG:HG3	1:C:1208:THR:O	2.20	0.40
1:C:1648:PRO:CD	1:C:1745:GLU:HG3	2.45	0.40
1:C:2009:LEU:HA	1:C:2009:LEU:HD23	1.86	0.40
1:C:2314:LEU:HD12	1:C:2314:LEU:N	2.36	0.40
1:D:1108:THR:HB	1:D:1126:VAL:CG1	2.51	0.40
1:D:1204:ARG:HG3	1:D:1208:THR:O	2.20	0.40
1:D:174:LYS:HB3	1:D:174:LYS:HE3	1.92	0.40
1:D:1825:THR:HA	1:D:1846:MET:SD	2.61	0.40
1:D:2383:THR:HB	1:D:2386:SER:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2460:PHE:CD1	1:D:2512:ARG:HD3	2.55	0.40
1:E:1587:HIS:HB2	1:E:1595:TYR:CZ	2.56	0.40
1:E:1747:VAL:O	1:E:1747:VAL:HG23	2.21	0.40
1:E:1868:TYR:HE1	1:E:1970:LEU:CG	2.30	0.40
1:E:2156:ALA:O	1:E:2159:GLU:HB2	2.21	0.40
1:E:2383:THR:HB	1:E:2386:SER:HB2	2.04	0.40
1:A:1082:LEU:HA	1:A:1082:LEU:HD23	1.74	0.40
1:A:1642:TYR:HH	1:A:1689:THR:HG1	1.60	0.40
1:A:1868:TYR:HE1	1:A:1970:LEU:CG	2.30	0.40
1:A:2281:ARG:HD2	1:A:2287:ASP:HA	2.02	0.40
1:B:1010:SER:OG	1:B:1240:GLN:NE2	2.54	0.40
1:B:1023:LYS:HE3	1:B:1024:TYR:CE2	2.56	0.40
1:B:1737:PRO:C	1:B:1739:SER:H	2.25	0.40
1:B:1800:TRP:CD1	1:B:1816:TRP:CZ2	3.09	0.40
1:B:1868:TYR:HE1	1:B:1970:LEU:CG	2.30	0.40
1:B:2372:ASN:ND2	1:B:2392:SER:HB2	2.36	0.40
1:B:2417:VAL:HG22	1:B:2509:LEU:CD2	2.51	0.40
1:C:1649:PRO:HD3	1:C:1685:ASN:OD1	2.21	0.40
1:C:1779:VAL:HG21	1:C:1795:TRP:CE3	2.56	0.40
1:C:1800:TRP:CD1	1:C:1816:TRP:CZ2	3.09	0.40
1:C:94:ASN:HD22	1:C:94:ASN:N	2.18	0.40
1:C:948:THR:O	1:C:951:ILE:HB	2.21	0.40
1:D:1225:LYS:HG3	1:D:1251:ASN:ND2	2.36	0.40
1:D:1075:GLU:HG2	1:D:1621:ILE:HB	2.04	0.40
1:D:1800:TRP:CD1	1:D:1816:TRP:CZ2	3.09	0.40
1:D:2253:TRP:NE1	1:E:2301:TYR:HE2	2.18	0.40
1:E:2314:LEU:N	1:E:2314:LEU:HD12	2.36	0.40
1:A:1174:GLN:HG2	1:A:1197:GLU:H	1.87	0.40
1:A:1666:LYS:HD2	1:A:1708:TYR:CE1	2.54	0.40
1:A:1661:PHE:CZ	1:A:1679:GLY:HA3	2.56	0.40
1:A:1706:LYS:NZ	1:A:1720:TRP:O	2.33	0.40
1:A:2280:TYR:HE2	1:A:2291:PHE:HE2	1.69	0.40
1:A:947:SER:OG	1:A:964:ARG:HG3	2.21	0.40
1:B:1082:LEU:HA	1:B:1082:LEU:HD23	1.74	0.40
1:B:1132:ASN:HB2	1:B:1832:LEU:CD1	2.51	0.40
1:B:1645:PHE:CE2	1:B:1707:VAL:HG21	2.57	0.40
1:B:1779:VAL:HG21	1:B:1795:TRP:CE3	2.56	0.40
1:B:103:TYR:CD1	1:B:1950:PRO:HG2	2.54	0.40
1:B:1976:ILE:HA	1:B:1976:ILE:HD12	1.91	0.40
1:C:1044:TYR:OH	1:D:1992:PRO:CG	2.64	0.40
1:C:1174:GLN:HG2	1:C:1197:GLU:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:142:ARG:NH2	1:C:168:LEU:HD11	2.37	0.40
1:C:1665:ILE:CG2	1:C:1674:HIS:HD2	2.32	0.40
1:C:947:SER:OG	1:C:964:ARG:HG3	2.21	0.40
1:D:1779:VAL:HG21	1:D:1795:TRP:CE3	2.57	0.40
1:D:100:ALA:CB	1:D:1950:PRO:HG3	2.44	0.40
1:D:2280:TYR:HE2	1:D:2291:PHE:HE2	1.69	0.40
1:D:2377:PHE:HA	1:D:2377:PHE:HD1	1.79	0.40
1:D:2441:LEU:HD13	1:D:2446:GLU:CG	2.51	0.40
1:D:2282:TRP:CZ2	1:D:2474:GLY:HA3	2.56	0.40
1:D:2390:SER:HA	1:D:2483:THR:HA	2.02	0.40
1:E:1174:GLN:HG2	1:E:1197:GLU:H	1.87	0.40
1:E:1857:LEU:HD23	1:E:1889:LEU:HD23	2.03	0.40
1:E:2312:LEU:HA	1:E:2312:LEU:HD12	1.74	0.40
1:E:2438:LYS:HE3	1:E:2438:LYS:HB2	1.83	0.40
1:A:1023:LYS:HE3	1:A:1024:TYR:CE2	2.56	0.40
1:A:1108:THR:OG1	1:A:1128:HIS:NE2	2.30	0.40
1:A:1587:HIS:HB2	1:A:1595:TYR:CZ	2.56	0.40
1:A:1660:TRP:CG	1:A:1661:PHE:N	2.84	0.40
1:A:2156:ALA:O	1:A:2159:GLU:HB2	2.21	0.40
1:A:2383:THR:HB	1:A:2386:SER:HB2	2.03	0.40
1:A:901:ASP:CB	1:A:904:GLN:O	2.70	0.40
1:A:1272:ASP:HB3	1:B:1623:THR:HG23	2.04	0.40
1:B:2314:LEU:HD12	1:B:2314:LEU:N	2.36	0.40
1:B:2383:THR:HG23	1:C:2403:PRO:HB3	2.03	0.40
1:C:2250:LEU:HD23	1:C:2251:TYR:N	2.36	0.40
1:C:2440:GLY:O	1:C:2441:LEU:HG	2.22	0.40
1:D:1098:HIS:CE1	1:D:1128:HIS:CD2	3.09	0.40
1:D:1103:ASN:ND2	1:D:1598:TRP:CE2	2.83	0.40
1:D:1648:PRO:HA	1:D:1649:PRO:HD3	1.90	0.40
1:D:2156:ALA:O	1:D:2159:GLU:HB2	2.21	0.40
1:C:2264:GLN:OE1	1:D:2312:LEU:CD2	2.70	0.40
1:D:2314:LEU:HD12	1:D:2314:LEU:N	2.36	0.40
1:D:978:SER:HB2	1:E:1972:HIS:CD2	2.55	0.40
1:E:1023:LYS:HE3	1:E:1024:TYR:CE2	2.56	0.40
1:E:1661:PHE:CZ	1:E:1679:GLY:HA3	2.56	0.40
1:E:142:ARG:NH2	1:E:168:LEU:HD11	2.37	0.40
1:E:1736:ASN:HB3	1:E:1738:LYS:HZ3	1.86	0.40
1:E:1737:PRO:C	1:E:1739:SER:H	2.25	0.40
1:E:1779:VAL:HG21	1:E:1795:TRP:CE3	2.56	0.40
1:E:1800:TRP:CD1	1:E:1816:TRP:CZ2	3.09	0.40
1:E:2079:ASP:O	1:E:2082:LYS:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2337:LEU:HG	1:E:2391:VAL:HG21	2.03	0.40
1:E:2425:PRO:HA	1:E:2426:TYR:HA	1.56	0.40
1:E:2440:GLY:O	1:E:2441:LEU:HG	2.22	0.40
1:A:1610:ALA:O	1:A:1614:VAL:HG23	2.20	0.40
1:A:2253:TRP:NE1	1:B:2301:TYR:HE2	2.19	0.40
1:A:2318:GLU:CB	1:E:2272:ARG:HH22	2.34	0.40
1:B:1108:THR:OG1	1:B:1128:HIS:NE2	2.30	0.40
1:B:1282:GLN:O	1:B:1285:VAL:HG12	2.20	0.40
1:B:1661:PHE:CZ	1:B:1679:GLY:HA3	2.56	0.40
1:B:2103:TYR:O	1:B:2104:ASP:CB	2.70	0.40
1:B:2122:ALA:O	1:B:2125:THR:OG1	2.26	0.40
1:B:2236:SER:OG	1:C:2059:GLN:NE2	2.53	0.40
1:B:94:ASN:N	1:B:94:ASN:HD22	2.18	0.40
1:C:106:PRO:HA	1:C:1951:GLN:OE1	2.21	0.40
1:C:1645:PHE:CE2	1:C:1707:VAL:HG21	2.57	0.40
1:C:1824:ASP:OD2	1:C:1846:MET:HG2	2.21	0.40
1:C:901:ASP:CB	1:C:904:GLN:O	2.70	0.40
1:D:118:TYR:HD1	1:D:1031:TRP:CD2	2.40	0.40
1:D:1143:GLU:HG2	1:D:1143:GLU:H	1.64	0.40
1:D:1660:TRP:CE3	1:D:1680:GLN:CA	3.01	0.40
1:D:1662:LYS:O	1:D:1710:THR:N	2.39	0.40
1:D:2165:MET:HG3	1:E:2124:LEU:HG	2.02	0.40
1:D:2287:ASP:OD1	1:D:2287:ASP:N	2.54	0.40
1:E:1859:LEU:HD12	1:E:1859:LEU:HA	1.71	0.40
1:E:1974:LEU:HD23	1:E:1974:LEU:HA	1.85	0.40
1:E:935:HIS:O	1:E:939:ASP:HB2	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	30	74
1	B	1415/2516 (56%)	1297 (92%)	110 (8%)	8 (1%)	30	74
1	C	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	30	74
1	D	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	30	74
1	E	1415/2516 (56%)	1298 (92%)	109 (8%)	8 (1%)	30	74
All	All	7075/12580 (56%)	6489 (92%)	546 (8%)	40 (1%)	34	74

All (40) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	96	PHE
1	A	954	VAL
1	A	1810	GLN
1	A	2144	ILE
1	B	96	PHE
1	B	954	VAL
1	B	1810	GLN
1	B	2144	ILE
1	C	96	PHE
1	C	954	VAL
1	C	1810	GLN
1	C	2144	ILE
1	D	96	PHE
1	D	954	VAL
1	D	1810	GLN
1	D	2144	ILE
1	E	96	PHE
1	E	954	VAL
1	E	1810	GLN
1	E	2144	ILE
1	A	1006	GLU
1	B	1006	GLU
1	C	1006	GLU
1	D	1006	GLU
1	E	1006	GLU
1	A	1686	ILE
1	A	1740	ILE
1	A	1835	VAL
1	B	1686	ILE
1	B	1740	ILE
1	B	1835	VAL

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Mol	Chain	Res	Type
1	C	1686	ILE
1	C	1740	ILE
1	C	1835	VAL
1	D	1686	ILE
1	D	1740	ILE
1	D	1835	VAL
1	E	1686	ILE
1	E	1740	ILE
1	E	1835	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	A	1135/2157 (53%)	1132 (100%)	3 (0%)	94	99
1	B	1135/2157 (53%)	1132 (100%)	3 (0%)	94	99
1	C	1135/2157 (53%)	1132 (100%)	3 (0%)	94	99
1	D	1135/2157 (53%)	1132 (100%)	3 (0%)	94	99
1	E	1135/2157 (53%)	1132 (100%)	3 (0%)	94	99
All	All	5675/10785 (53%)	5660 (100%)	15 (0%)	95	99

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	94	ASN
1	A	2104	ASP
1	A	2189	ARG
1	B	94	ASN
1	B	2104	ASP
1	B	2189	ARG
1	C	94	ASN
1	C	2104	ASP
1	C	2189	ARG
1	D	94	ASN

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Mol	Chain	Res	Type
1	D	2104	ASP
1	D	2189	ARG
1	E	94	ASN
1	E	2104	ASP
1	E	2189	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (92) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	94	ASN
1	A	1016	GLN
1	A	1202	HIS
1	A	1240	GLN
1	A	1265	GLN
1	A	1588	HIS
1	A	1594	GLN
1	A	1667	HIS
1	A	1674	HIS
1	A	1847	HIS
1	A	1951	GLN
1	A	1972	HIS
1	A	2059	GLN
1	A	2373	ASN
1	A	2430	GLN
1	A	2452	HIS
1	A	2465	ASN
1	A	2497	GLN
1	A	2510	HIS
1	B	94	ASN
1	B	1016	GLN
1	B	1202	HIS
1	B	1240	GLN
1	B	1265	GLN
1	B	1588	HIS
1	B	1594	GLN
1	B	1667	HIS
1	B	1674	HIS
1	B	1847	HIS
1	B	1972	HIS
1	B	2059	GLN
1	B	2373	ASN
1	B	2430	GLN

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Mol	Chain	Res	Type
1	B	2452	HIS
1	B	2465	ASN
1	B	2497	GLN
1	B	2510	HIS
1	C	94	ASN
1	C	1016	GLN
1	C	1202	HIS
1	C	1240	GLN
1	C	1265	GLN
1	C	1588	HIS
1	C	1594	GLN
1	C	1667	HIS
1	C	1674	HIS
1	C	1847	HIS
1	C	1951	GLN
1	C	2059	GLN
1	C	2373	ASN
1	C	2430	GLN
1	C	2452	HIS
1	C	2465	ASN
1	C	2497	GLN
1	C	2510	HIS
1	D	94	ASN
1	D	1016	GLN
1	D	1202	HIS
1	D	1240	GLN
1	D	1265	GLN
1	D	1588	HIS
1	D	1594	GLN
1	D	1667	HIS
1	D	1674	HIS
1	D	1847	HIS
1	D	1972	HIS
1	D	2059	GLN
1	D	2373	ASN
1	D	2430	GLN
1	D	2452	HIS
1	D	2465	ASN
1	D	2497	GLN
1	D	2510	HIS
1	E	94	ASN
1	E	1016	GLN

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Mol	Chain	Res	Type
1	E	1202	HIS
1	E	1240	GLN
1	E	1265	GLN
1	E	1588	HIS
1	E	1594	GLN
1	E	1667	HIS
1	E	1674	HIS
1	E	1847	HIS
1	E	1951	GLN
1	E	1972	HIS
1	E	2059	GLN
1	E	2373	ASN
1	E	2430	GLN
1	E	2452	HIS
1	E	2465	ASN
1	E	2497	GLN
1	E	2510	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	1
1	A	1
1	D	1
1	C	1
1	E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1830:ASP	C	1831:PRO	N	1.02
1	B	1830:ASP	C	1831:PRO	N	1.02
1	C	1830:ASP	C	1831:PRO	N	1.02
1	D	1830:ASP	C	1831:PRO	N	1.02
1	E	1830:ASP	C	1831:PRO	N	1.02