



Full wwPDB EM Validation Report ⓘ

Nov 8, 2022 – 05:43 AM JST

PDB ID : 5Y3R
EMDB ID : EMD-6803
Title : Cryo-EM structure of Human DNA-PK Holoenzyme
Authors : Yin, X.; Liu, M.; Tian, Y.; Wang, J.; Xu, Y.
Deposited on : 2017-07-29
Resolution : 6.60 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

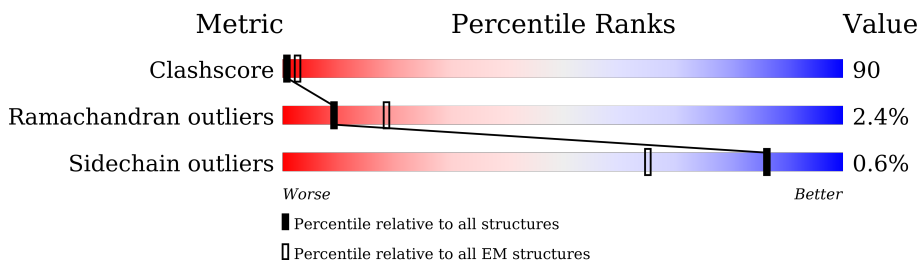
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.60 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	501	<div> <div>9%</div> <div>12%</div> <div>83%</div> <div>..</div> </div>
2	B	536	<div> <div>10%</div> <div>21%</div> <div>75%</div> <div>..</div> </div>
3	K	15	<div> <div>53%</div> <div>60%</div> <div>40%</div> </div>
4	D	34	<div> <div>6%</div> <div>82%</div> <div>12%</div> </div>
5	E	36	<div> <div>81%</div> <div>19%</div> </div>
6	C	4119	<div> <div>11%</div> <div>12%</div> <div>71%</div> <div>5%</div> <div>12%</div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 38766 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 X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	493	Total	C	N	O	S	0	0
			3982	2550	675	739	18		

- Molecule 2 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	526	Total	C	N	O	S	0	0
			4210	2696	707	784	23		

- Molecule 3 is a protein called PRKDC-Helix.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	K	15	Total	C	N	O	0	0
			75	45	15	15		

- Molecule 4 is a DNA chain called DNA (34-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	34	Total	C	N	O	P	0	0
			700	336	123	207	34		

- Molecule 5 is a DNA chain called DNA (36-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	36	Total	C	N	O	P	0	0
			733	354	132	212	35		

- Molecule 6 is a protein called DNA-dependent protein kinase catalytic subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	C	3636	Total	C	N	O	S	0	0
			29066	18608	4912	5356	190		

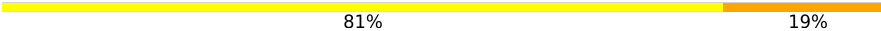
3 Residue-property plots

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

- Molecule 1: X-ray repair cross-complementing protein 6



- Molecule 2: X-ray repair cross-complementing protein 5

Chain E:  81% 19%

C16
A17
G18
C19
T20
A21
A22
T23
G24
C25
C26
C27
A28
T29
A30
A31
T32
A33
C34
C35
A36
T37
A38
A39
T40
A41
A42
T43
A44
G45
T46
T47
T48
T49
T50
A51

- Molecule 6: DNA-dependent protein kinase catalytic subunit

Chain C:  11% 12% 71% 5% 12%

C10
S11
L12
L13
R14
L15
Q16
E17
S20
A21
A22
D23
R24
C25
G26
A27
A28
L29
A30
G31
H32
Q33
L34
I35
R36
G37
L38
G39
Q40
E41
C42
V43

K71
S72
L73
N74
S75
I76
F77
F78
R79
E80
C81
R82
E83
E84
E85
L86
K87
F88
L89
C90
I91
F92
G93
H94
L95
M96
G97
Q98
K99
I100
Y103
S104
E106
I107
K108
M109
S46
S47
P48
A49
V50
L51
A52
L53
Q54
T55
S56
L57
V58
F59
S60
R61
D62
F63
G64
L65
L66
V67
F68
V69
R70

I132
K133
L134
L135
Q136
T137
F138
R139
S140
S141
L142
L143
F147
K148
L149
G150
E151
L152
F153
S154
K155
F156
Y157
G158
E159
L160
A161
K162
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K164
K165
I166
P167
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V170
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P186
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N192
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E194
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A211
R212
R213
E214
K215
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L217
P218
V219
L220
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C222
C223
L224
K225
G226
S227
S228
S229
L230
L231
C232
N233
K236
S237
M238
E239
D240
P241
P242
Q243
T244
S245
R246
I247
I248
N250
F251
V252
L253
K254

A255
I256
R257
Q258
P259
D261
L262
K263
R264
Y265
A266
V267
S268
R269
A270
G271
L272
R273
L274
F275
A276
L277
H278
A279
S280
E281
Q281
F282
T283
T284
C285
L286
L287
N288
Y290
V291
S292
L293
F294
E295
V296
L297
L298
K299
W300
C301
A302
H303
T304
N305
V306
E307
K309
K310
L313
S314
A315

L316
E317
S318
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Q322
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S324
N325
M326
V327
A328
K329
N330
A331
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M333
H334
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K336
K337
L338
Y340
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P341
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S354
N355
K356
K357
E358
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S360
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A362
L363
R364
G365
Y366
G367
L368
F369
A370
P372
C373
K374
V375

I376
N377
A378
K379
D380
S381
D382
M384
F385
V386
E387
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I389
Q390
R391
C392
K393
Q394
M395
F396
L397
T398
Q399
T400
D401
D405
R406
Y407
Y408
Q409
M410
P411
S412
F413
Q415
S416
V417
A418
S419
V420
L421
L422
Y423
L424
D425
T426
V427
P428
E429
V430
T431
P432
T433
V434
L435
E436
H437

L438
V439
V440
M441
Q442
L443
D444
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F446
P447
Q448
Y449
S450
P451
V452
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M454
Q454
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C458
R459
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V462
K463
V464
F465
L468
A469
A470
K471
G472
P473
L474
L475
R476
N477
C478
I479
S480
T481
V482
V483
H484
Q485
G486
L487
L488
R489
T490
C491
S492
K493
P494
V495
S496
S497
L497
PRO

LYS
GLY
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GLU
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ASP
HIS
ARG
ALA
SER
GLY
VAL
THR
THR
K525
D526
Y527
V528
D529
L530
F531
R532
H533
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D538
Q539
M540
M541
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L545
A546
D547
E548
A549
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F551
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V553
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S559
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H562
L563
L564
M565
D566
E567
F568
E569
C630
R631
S571
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K578
L579
D580
L581
T582
L583
E584
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P604
T605
S606
D607
P608
A609
R675
N611
L612
H613
P614
A615
K616
P617
K618

D619
F620
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F623
L624
N625
L626
V627
E628
F629
C630
R631
E632
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L634
P635
E636
K637
R638
A639
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F641
E642
E643
P644
V645
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S650
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Q656
Q657
T658
R659
L660
P661
L662
L663
S664
G665
F666
K668
L669
L670
S671
L672
T673
V674
A675
R676
A677
K678

K1407	M1408	S1409	P1410	Y1411	K1412	D1413	L1414	L1415	E1416	T1417	H1418	L1419	L1420	E1421	K1422	T1423	T1424	A1425	Q1426	S1427	I1428	E1429	E1430	L1431	C1432	A1433	V1434	N1435	L1436	Y1437	G1438	F1439	D1440	A1441	Q1442	V1443	D1444	R1445	S1446	R1447	L1448	S1453	K1456	Q1457	L1458	H1459	R1460	A1461	L1462	L1463	L1464	H1465	T1466	L1467	L1468	Q1471					
T1347	L1348	L1349	N1350	T1351	S1352	P1353	E1354	G1355	W1356	K1357	L1358	L1359	K1360	K1361	D1362	L1363	C1364	N1365	Q1426	T1366	H1367	L1368	M1369	R1370	V1371	L1372	V1373	Q1374	T1375	L1376	C1377	E1378	P1379	A1380	S1381	I1382	G1383	F1384	N1385	L1386	G1387	D1388	V1389	Q1390	V1391	M1392	A1393	L1394	L1395	P1396	D1397	V1398	C1399	H1400	N1401	L1402	M1403	K1404	L1406		
E1285	A1286	Q1287	S1288	L1291	K1292	A1295	F1296	F1297	L1298	E1299	S1300	L1301	A1302	M1303	H1304	D1305	T1306	H1307	A1308	ALA	GLU	GLY	CYS	PHE	GLY	THR	ALA	ALA	GLY	ASN	ARG	THR	S1323	P1324	Q1325	E1326	E1327	R1328	Y1329	M1331	S1332	K1333	C1335	T1336	V1337	V1338	V1339	R1340	M1341	E1342	E1343	F1344	T1345	T1346							
I1221	N1222	T1223	F1224	G1227	G1228	C1229	G1230	Q1231	P1232	S1233	G1234	I1235	L1236	A1237	Q1238	P1239	L1240	L1241	L1242	Y1243	F1248	S1249	Q1251	A1252	L1253	L1254	C1255	W1256	D1257	L1258	L1259	L1260	L1261	A1262	A1263	L1264	E1265	Y1267	T1269	F1270	I1271	G1272	E1273	L1274	T1275	V1276	G1277	A1278	Q1280	V1281	L1282	G1283	T1284								
F1101	E1102	A1103	L1104	V1105	I1106	Y1107	M1108	E1109	S1110	L1111	A1112	L1113	A1114	H1115	A1116	E1117	K1118	S1119	S1120	G1121	G1122	T1123	I1124	Q1125	Q1126	C1127	C1128	D1129	A1130	I1131	H1132	H1133	L1134	C1135	R1136	I1137	I1138	E1139	K1140	K1141	H1142	V1143	S1144	L1145	N1146	K1147	A1148	K1149	K1150	R1151	R1152	L1153	P1154	R1155	G1156	F1157	P1158	P1159	S1160		
I1041	K1042	Q1043	L1044	T1045	P1046	Q1047	Q1048	Q1049	E1050	K1051	S1052	P1053	V1054	N1055	T1056	K1057	S1058	L1059	F1060	K1061	R1062	L1063	Y1064	S1065	L1066	A1067	L1068	H1069	P1070	N1071	A1072	F1073	K1074	R1075	L1076	G1077	A1078	S1079	D1019	T1020	V1021	S1023	S1026	L1027	L1028	C1029	G1030	R1031	C1032	L1033	R1034	E1035	F1036	L1037	K1038	W1039	S1040				
R981	Q982	Y983	Y984	E985	P986	L987	V988	M989	Q990	L991	H992	H993	W994	P995	T996	N997	N998	K999	K1000	F1001	E1002	S1003	Q1004	D1005	T1006	V1007	A945	T946	Q947	M948	E950	G951	G952	Q953	G954	A955	P956	P957	M958	Y959	Q960	L961	Y962	K963	R965	P966	V967	V968	L969	S970	R971	L972	A973	D977	Q978	V979	T980				
L859	G860	L862	G863	G864	Q865	I866	N867	K868	N869	L870	L871	E872	V873	T874	S875	S876	D877	E878	M879	M880	K881	S882	Y883	A885	W886	D887	R888	G889	K890	R891	L892	E893	F894	A895	V896	P897	F898	R899	E900	M901	K902	P903	V904	I905	F906	L907	N908	V909	F910	L911	P912	R913	V914	Q915	E916	A918					
N739	I740	I741	E742	L743	D744	V745	VAL	SER	PRO	LYS	SER	LEU	LYS	HIS	SER	PRO	GLU	ASP	PRO	GLU	K700	Y701	S702	C703	F704	A705	L706	F707	V708	K709	F710	G711	K712	E713	L714	A715	E716	K717	L718	K719	Q720	Y721	K722	D723	E724	L725	L726	A727	S728	C729	L730	T731	F732	L733	L734	S735	L736	P737	H738		
Y799	L800	K801	T802	G803	A804	L805	S806	D807	Y808	T809	LYS	ASN	ASN	TRP	GLU	VAL	SER	ALA	LEU	SER	ARG	ALA	ALA	GLN	LYS	GLY	PHE	ASN	VAL	VAL	K889	L890	L891	HIS	L892	L893	E775	E776	S777	I778	Y779	I780	D781	R782	H783	V784	M785	P787	Y788	Y789	K790	E850	I851	R852	I853	R854	C795	L796	V856	D797	G798

A2200	L2140	D2079	D2018	E1958	G1898	GLU	PHE	L1717	S1657	L1597	ASN	S1472
T2201	N2141	V2080	S2019	E1959	V1899	PHE	GLN	I1718	S1658	M1598	PRO	
P2202	L2142	L2081	D2020	K1960	F1900	PHE	SER		VAL	G1599	ALA	L1475
G2204	R2143	E2082	G2021	K1961	H1901	SER	SER	H1721	SER	M1600	VAL	H1476
G2205	L2144	E2083	P2022	Y1962	G1902	THR	PHE	F1722	PHE	L1501	LEU	H1477
P2206	F2145	E2084	S2023	Q1963	S1903	ILE	ARG	F1723	ASN	D1602	SER	S1478
P2207	L2146	W2085	Y2024	C1904	C1904	VAL	ARG	M1724	THR	Q1603	THR	V1479
K2208	A2147	D2086	M2025	I1905	I1905	VAL	ILE	F1725	SER	F1604	ALA	G1480
D2207	L2148	E2087	L2028	T1906	T1906	ASP	ALA	Q1726	HIS	S1605	SER	T1481
E2209	L2149	L2088	S2029	E1907	E1907	ALA	ARG	Q1727	GLY	L1606	LEU	E1482
V2210	V2150	L2089	Y2030	I1908	I1908	ILE	ARG	R1727	SER	E1607	GLY	L1483
L2211	L2151	R2089	L2031	E1969	R1909	ASP	GLY	E1728	PHE	R1608	SER	L1484
A2212	N2152	R2090	A2032	K1970	E1910	VAL	SER	F1729	PRO	AS1609	SER	S1485
W2213	T2153	C2093	L2033	P1971	L1911	LEU	CYS	P1730	GLU	ASN	GLN	L1486
R2214	E2154	M2094	D2033	K1972	L1912	LYS	VAL	P1731	V1671	GLN	G1548	
L2215	E2155	A2095	S2034	K1973	T1913	THR	THR	G1732	F1672	LYS	S1549	K1489
V2156	F2156	P2096	T2035	N1974	T1914	ARG	GLN	P1733	T1673	HIS	V1550	G1490
R2158	T2157	L2097	L2036	L1975	L1915	PHE	GLY	R1735	T1674	GLY	I1551	I1491
F2159	L2160	T2098	S2037	L1976	T1916	K1857	LEU	F1736	Y1675	LYS	H1552	A1492
P2159		A2099	E2038	I1977	K1917	L1868		N1737	I1676	LYS	F1553	P1493
Y2160		L2100	E2039	F1978	L1918	E1859		N1738	L1677	LEU	S1554	G1494
A2161	K2162	V2101	M2040	N1979	C1919	E1860		Y1739	L1678	ALA	H1555	D1495
H2163	H2163	K2102	S2041	N1980	Y1920	S1861		V1740	L1679	THR	G1556	E1496
H2164	H2164	H2103	Q2042	L1981	D1921	F1862		D1741	A1680	THR	E1557	R1497
L2165	L2165	H2104	F2043	L1982	F1923	F1863		C1742	D1681	ILE	Y1558	Q1498
S2166	L2165	H2105	F2045	K1985	T1924	D1864		K1744	T1682	LEU	F1559	C1499
T2167	F2046	R2106	S2046	Q1985	T1925	T1865		K1745	K1683	GLN	Y1560	L1500
L2168	T2047	L2107	T2047	R1986	M1927	Q1866		L1746	L1684	HIS	S1561	P1501
L2169	S2107	S2108	R1987	I1988	E1928	T1867		L1747	L1686	TRP	F1562	S1502
Q2170	G2109	G2109	Y2049	K1869	C1929	T1868		A1749	H1687	LYS	F1563	L1503
L2171	P2110	P2110	Q2050	K1870	E1930	K1870		L1750	L1688	LYS	S1564	D1504
A2172	P2111	P2111	S2051	M1871	N1931	M1871		E1751	L1689	CYS	E1565	L1505
S2174	Q2112	Q2112	S2053	G1872	Q1932	G1872		L1752	K1689	GLN	T1566	S1506
E2175	G2113	G2113	Y2054	Y1873	L1933	Y1873		L1753	G1690	S1631	C1507	C1507
N2176	E2114	E2114	S2055	Y1874	L1934	K1874		Q1691	Q1691	W1632	N1568	K1508
N2177	E2115	E2115	S2056	K1875	L1935	K1875		A1692	A1692	W1633	T1569	Q1509
G2178	D2116	D2116	Q2057	L1876	R1936	L1876		Q1754	V1693	A1634	E1570	L1510
G2178	S2117	S2117	D2058	L1877	R1937	L1877		S1755	T1694	K1635	L1571	A1511
E2180	V2118	V2118	P2059	L1878	R1938	L1878		M1757	L1695	D1636	L1572	K1572
G2181	P2119	P2119	R2060	V1879	L1939	V1879		L1758	L1696	S1637	K1573	G1513
L2241	R2120	R2120	P2061	Y1940	L1940	M1880		L1759	L1697	P1638	N1574	L1514
L2182	D2121	D2121	A2062	H1941	H1941	Y1881		E1760	F1698	L1639	L1575	L1515
H2183	L2122	L2122	T2063	K2001	C1942	S1882		L1761	F1699	E1640	E1516	E1516
Y2184	P2123	P2123	G2064	K2002	A1943	R1883		M1762	T1700	T1641	L1517	L1517
M2185	L2124	L2124	R2065	Y2004	A1944	L1884		T1763	S1701	K1642	A1518	A1518
V2186	W2125	W2125	R2066	I2005	Y1945	P1885		GLU	T1702	M1643	F1519	F1519
L2187	K2127	K2127	R2067	I2006	N1946	K1886		VAL	G1704	V1645	A1520	A1520
E2188	F2128	F2128	R2068	I2007	C1947	D1887		LEU	G1705	L1646	L1582	L1582
L2189	K2129	K2129	R2069	E2008	A1948	V1888		CYS	S1706	L1647	M1583	G1522
A2191	L2130	L2130	E2070	E2009	L1949	V1889		ARG	L1707	L1648	Q1584	G1523
T2192	H2130	H2130	Q2071	E2010	S1950	H1891		GLU	E1708	L1649	S1585	L1524
G2131	G2131	G2131	R2072	A2011	V1951	A1890		GLN	L1710	A1650	C1525	C1525
L2193	L2132	L2132	D2073	T1952	I1952	K1892		THR	L1711	K1651	ARG	E1526
S2195	K2133	K2133	P2074	E2013	C1953	E1893		HIS	R1712	L1652	LEU	LEU
L2196	T2134	T2134	T2075	K1895	C1954	S1894		VAL	Q1713	L1653	VAL	VAL
T2197	G2136	G2136	V2076	I1896	F1955	K1895		GLU	L1714	Q1654	SER	SER
Q2198	L2137	L2137	H2077	N1897	F1956	K1896		GLU	E1715	T1655	LEU	LEU
L2199	V2138	V2138	D2078	M1897	M1957	N1897		LEU	Q1716	D1656	A1595	A1595
	P2139	P2139		G2017				ASP			V1596	V1596
								ALA				
								LEU				
								ARG				



K3942	K3943	K3944	K3945	K3946	S3947	G3948	K3949	K3950	D3951	K3952	K3953	K3954	K3955	K3956	K3957	K3958	K3959	K3960	G3961	K3962	K3963	K3964	K3965	K3966	K3967	K3968	K3969	K3970	K3971	K3972	K3973	K3974	K3975	K3976	K3977	K3978	K3979	K3980	K3981	K3982	K3983	K3984	K3985	K3986	K3987	K3988	K3989	K3990	K3991	K3992																																																																																												
S3782	F3783	R3784	A3785	L3786	Q3787	L3788	R3789	T3790	K3791	S3792	V3793	K3794	K3795	K3796	T3797	S3798	Y3799	L3800	L3801	G3802	K3803	E3804	K3805	L3806	K3807	K3808	K3809	V3810	L3811	L3812	K3813	K3814	L3815	L3816	K3817	L3818	K3819	K3820	S3821	S3822	E3823	K3824	K3825	A3826	A3827	Y3828	L3829	S3830	K3831	K3832	K3833	A3834	L3835	P3836	L3837	K3838	L3839	R3840	D3841																																																																																			
G3721	F3722	R3723	E3724	R3725	V3726	T3727	V3728	K3729	A3730	S3731	L3732	K3733	K3734	P3735	K3736	R3737	L3738	L3739	G3740	R3741	K3742	H3743	R3746	E3747	H3748	P3749	F3750	L3751	V3752	K3753	G3754	G3755	F3756	D3757	L3758	K3759	K3760	D3761	K3762	R3763	V3764	E3765	Q3766	L3767	F3768	Q3769	V3770	M3771	N3772	G3773	L3774	L3775	A3776	Q3777	D3778	S3779	K3780	C3781																																																																																				
N3660	D3661	I3662	T3663	N3664	N3665	L3666	L3667	L3668	K3669	N3670	K3671	K3672	S3673	K3674	K3675	P3676	P3677	G3678	N3679	L3680	K3681	E3682	C3683	S3684	P3685	K3686	K3687	S3688	D3689	K3690	K3691	V3692	E3693	F3694	L3695	K3696	N3697	K3698	L3699	E3700	I3701	P3702	Q3703	Q3704	K3705	D3706	K3707	K3708	K3709	K3710	P3711	E3714	K3715	K3716	K3717	K3718	K3719	A3720																																																																																				
K3598	T3599	P3600	V3601	N3602	K3603	K3604	N3605	L3606	E3607	K3608	M3609	Y3610	E3611	R3612	M3613	Y3614	F3615	A3616	L3617	G3618	D3619	P3620	K3621	A3622	P3623	G3624	L3625	G3626	Y3627	L3628	K3629	R3630	F3631	F3632	T3633	Q3634	T3635	F3636	G3637	K3638	E3639	D3640	K3641	K3642	H3643	F3644	G3645	S3649	K3650	L3651	L3652	R3653	M3654	L3655	L3656	D3657	F3659																																																																																					
N3598	E3599	Y3540	S3541	F3542	K3543	D3544	T3545	S3546	T3547	G3548	H3549	K3550	N3551	K3552	E3553	F3554	V3555	A3556	R3557	T3558	K3559	S3560	K3561	L3562	D3563	Q3564	K3565	G3566	Y3567	L3568	Q3569	D3570	F3571	L3572	M3573	A3574	L3575	L3578	S3579	R3580	P3581	E3582	L3583	L3584	F3585	K3586	D3587	V3588	S3589	K3590	D3591	V3592	K3593	A3594	E3595	L3596	A3597																																																																																					
E3477	E3478	T3479	L3480	S3481	L3482	M3483	T3484	K3485	E3486	I3487	S3488	S3489	V3490	P3491	C3492	W3493	Q3494	F3495	I3496	S3497	W3498	I3499	S3500	H3501	M3502	V3503	A3504	L3505	L3506	D3507	K3508	E3509	K3510	A3511	V3512	A3513	V3514	Q3515	H3516	S3517	V3518	E3519	E3520	I3521	T3522	D3523	N3524	Y3525	P3526	Q3527	A3528	I3529	V3530	Y3531	P3532	K3533	F3534	L3535	S3536																																																																																			
L3416	A3417	F3418	F3419	D3420	C3421	Q3422	Q3423	L3424	K3425	K3426	E3427	E3428	A3431	S3432	V3433	T3434	D3435	S3436	K3437	E3438	L3439	Q3440	A3441	P3442	K3443	A3444	L3445	V3446	V3447	E3448	K3449	N3450	L3451	K3452	A3453	L3454	K3455	L3456	N3457	N3458	N3459	E3460	A3461	R3462	L3463	K3464	F3465	P3466	R3467	L3468	L3469	Q3470	L3471	L3472	E3473	R3474	Y3475	P3476																																																																																				
K3355	A3356	R3357	R3358	I3359	LEU	GLU	LEU	SER	GLY	SER	SER	SER	ASP	ASP	GLU	LYS	V3373	I3374	A3375	G3376	Q3377	Y3378	Q3379	R3380	A3381	F3382	Q3383	K3384	L3385	S3386	E3387	A3388	V3389	Q3390	A3391	A3392	E3393	E3394	E3395	A3396	Q3397	P3398	P3399	S3400	W3401	S3402	C3403	G3404	P3405	G3408	I3409	D3411	A3412	Y3413	M3414	T3415																																																																																						
S3294	E3295	Q3296	V3297	L3298	T3299	V3300	L3301	K3302	T3303	V3304	S3305	L3306	L3307	D3308	E3309	N3310	N3311	S3312	S3313	S3314	Y3315	L3316	K3317	K3318	N3319	L3320	L3321	A3322	F3323	R3324	D3325	Q3326	K3327	L3328	L3329	L3330	G3331	T3332	T3333	Y3334	R3335	I3336	T3337	Q3378	Y3379	C3380	R3381	L3382	S3383	S3384	S3385	S3386	S3387	S3388	S3389	S3390	S3391	S3392	S3393	S3394	S3395	S3396	S3397	S3398	S3399	S3400	S3401	S3402	S3403	S3404	S3405	S3406	S3407	S3408	S3409	S3410	S3411	S3412	S3413	S3414	S3415	S3416	S3417	S3418	S3419	S3420	S3421	S3422	S3423	S3424	S3425	S3426	S3427	S3428	S3429	S3430	S3431	S3432	S3433	S3434	S3435	S3436	S3437	S3438	S3439	S3440	S3441	S3442	S3443	S3444	S3445	S3446	S3447	S3448	S3449	S3450	S3451	S3452	S3453	S3454	S3455	S3456	S3457	S3458	S3459	S3460	S3461	S3462	S3463	S3464	S3465	S3466	S3467	S3468	S3469	S3470	S3471	S3472	S3473	S3474	S3475	S3476
C3234	K3235	F3236	S3237	M3238	K3239	M3240	K3241	M3242	L3243	D3244	S3245	A3246	K3247	Q3248	K3249	N3250	M3251	F3252	S3253	L3254	A3255	M3256	K3257	L3258	L3259	K3260	E3261	L3262	H3263	K3264	E3265	S3266	K3267	R3268	R3269	D3270	D3271	W3272	L3273	S3274	V3275	S3276	W3277	Q3278	S3279	Y3280	C3281	R3282	A3283	S3284	H3285	C3286	GLN	GLU	ASP	R3287	S3288	S3289	S3290	Q3291	G3292	C3293																																																																																
K3172	M3173	K3174	P3175	M3176	N3177	K3178	W3179	D3180	D3181	I3182	I3183	T3184	N3185	R3186	F3189	N3190	S3191	K3192	L3193	L3194	M3195	K3196	L3197	T3198	P3199	LEU	PRO	GLU	ASP	ASN	ASP	ASN	VAL	ASP	GLN	ASP	GLY	L3150	L3151	PRO	SER	ASP	ARG	MET	GLU	VAL	GLN	GLN	GLU	GLU	GLU	ASP	I3227	S3228	T3231	R3232	S3233																																																																																					
F3110	K3111	Q3112	N3113	Y3114	S3115	S3116	I3117	D3118	V3119	L3120	L3121	Q3122	D3123	S3124	R3125	L3126	T3127	K3128	L3129	L3130	S3131	V3132	Q3133	A3134	L3135	T3136	E3137	L3138	Q3139	E3140	F3141	T3142	S3143	F3144	L3145	S3146	K3147	Q3148	Q3149	N3150	S3151	S3152	Q3154	V3155	P3156	R3159	L3160	L3161	K3162	T3163	K3164	T3165	R3166	K3167	Y3168	P3169																																																																																						

H3903	H3904	A3905	S3906	S3907	H3908	A3909	L3910	C3911	C3912	L3913	S3914	H3915	W3916	L3917	L3918	C3919	L3920	G3921	D3922	R3923	H3924	L3925	N3926	N3927	F3928	K3929	V3930	A3931	K3932	E3933	T3934	G3935	G3936	V3937	L3938	G3939	I3940	D3941	F3942	G3943	H3944	G3947	S3948	A3949	T3950	C3951	F3952	V3955	F3956	E3957	L3958	K3959	F3960	R3961	L3962	L3963	T3964	
R3965	Q3966	F3967	I3968	N3969	L3970	M3971	L3972	P3973	M3974	K3975	E3976	T3977	G3978	L3979	M3980	Y3981	S3982	L3983	M3984	V3985	H3986	A3987	L3988	R3989	A3990	F3991	R3992	S3993	D3994	L3997	L3998	T3999	N4000	T4001	M4002	D4003	V4004	F4005	V4006	K4007	E4008	P4009	S4010	F4011	D4012	W4013	K4014	N4015	F4016	E4017	Q4018	K4019	M4020	L4021	K4022	K4023	G4024	
W4027	L4028	Q4029	E4030	I4031	M4032	V4033	A4034	E4035	K4036	M4037	W4038	Y4039	P4040	R4041	Q4042	R4043	I4044	C4045	Y4046	A4047	K4048	R4049	K4050	A4052	G4053	A4054	M4055	P4056	A4057	V4058	I4059	T4060	C4061	D4062	E4063	L4064	L4065	L4066	G4067	H4068	E4069	K4070	A4071	P4072	A4073	F4074	R4075	D4076	Y4077	V4078	A4079	V4080	A4081	R4082	G4083	S4084	K4085	D4086
H4087	N4088	I4089	R4090	A4091	Q4092	E4093	P4094	E4095	S4096	G4097	L4098	S4099	E4100	E4101	T4102	Q4103	V4104	K4105	C4106	L4107	M4108	D4109	Q4110	L4111	T4112	D4113	P4114	N4115	I4116	L4117	G4118	R4119	T4120	W4121	E4122	G4123	H4124	E4125	P4126	W4127	M4128																	

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	53451	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1700	Depositor
Maximum defocus (nm)	4700	Depositor
Magnification	18000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.139	Depositor
Minimum map value	-0.053	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.03	Depositor
Map size (\AA)	390.0, 390.0, 390.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.3, 1.3, 1.3	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.51	0/4060	0.75	3/5468 (0.1%)
2	B	0.45	0/4297	0.69	4/5798 (0.1%)
3	K	0.28	0/74	0.36	0/102
4	D	1.44	1/784 (0.1%)	1.23	5/1209 (0.4%)
5	E	1.38	2/822 (0.2%)	1.23	8/1266 (0.6%)
6	C	0.54	1/29665 (0.0%)	0.77	41/40094 (0.1%)
All	All	0.59	4/39702 (0.0%)	0.78	61/53937 (0.1%)

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	12
2	B	0	8
6	C	0	89
All	All	0	109

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	2	DG	C3'-O3'	-5.56	1.36	1.44
5	E	36	DA	N9-C4	-5.48	1.34	1.37
6	C	2245	TRP	CB-CG	-5.41	1.40	1.50
5	E	39	DA	C3'-O3'	-5.16	1.37	1.44

All (61) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	2323	LEU	CA-CB-CG	-9.10	94.38	115.30
6	C	734	LEU	CA-CB-CG	-8.80	95.05	115.30
5	E	44	DA	O4'-C4'-C3'	-8.59	100.85	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	1257	LEU	CA-CB-CG	-8.10	96.68	115.30
6	C	2884	LEU	CA-CB-CG	-7.98	96.96	115.30
6	C	1025	LEU	CA-CB-CG	-7.94	97.03	115.30
6	C	1165	LEU	CA-CB-CG	7.79	133.22	115.30
4	D	2	DG	O4'-C4'-C3'	-7.72	101.37	106.00
5	E	39	DA	O4'-C4'-C3'	-7.40	101.54	104.50
6	C	2427	ARG	NE-CZ-NH2	-7.08	116.76	120.30
6	C	3125	ARG	NE-CZ-NH2	-7.03	116.79	120.30
6	C	2557	LEU	CA-CB-CG	-6.62	100.07	115.30
6	C	2276	LEU	CA-CB-CG	-6.54	100.25	115.30
6	C	313	LEU	CA-CB-CG	-6.47	100.41	115.30
6	C	2939	LEU	CA-CB-CG	-6.46	100.43	115.30
2	B	476	LEU	CA-CB-CG	-6.45	100.47	115.30
6	C	1259	LEU	CA-CB-CG	6.42	130.06	115.30
6	C	3463	LEU	CA-CB-CG	-6.38	100.64	115.30
6	C	634	LEU	CA-CB-CG	6.30	129.79	115.30
1	A	153	LEU	CA-CB-CG	-6.29	100.83	115.30
4	D	5	DT	O4'-C4'-C3'	-6.25	102.00	104.50
6	C	659	ARG	NE-CZ-NH2	6.23	123.42	120.30
5	E	17	DA	O4'-C1'-N9	6.12	112.28	108.00
6	C	66	LEU	CA-CB-CG	-6.05	101.39	115.30
2	B	388	ASP	CB-CG-OD1	5.99	123.69	118.30
6	C	421	LEU	CA-CB-CG	-5.99	101.53	115.30
6	C	3786	LEU	CA-CB-CG	-5.94	101.65	115.30
6	C	2396	LEU	CA-CB-CG	-5.93	101.66	115.30
6	C	2542	LEU	CA-CB-CG	5.82	128.69	115.30
2	B	147	LEU	CA-CB-CG	5.80	128.63	115.30
6	C	907	LEU	CA-CB-CG	-5.77	102.03	115.30
6	C	3129	LEU	CA-CB-CG	-5.77	102.03	115.30
6	C	4051	LEU	CA-CB-CG	5.67	128.33	115.30
5	E	35	DC	OP1-P-O3'	5.66	117.66	105.20
6	C	1858	LEU	CA-CB-CG	-5.63	102.36	115.30
6	C	461	ILE	CG1-CB-CG2	-5.62	99.04	111.40
6	C	2144	LEU	CA-CB-CG	-5.57	102.49	115.30
6	C	917	LEU	CA-CB-CG	-5.50	102.64	115.30
6	C	1080	LEU	CA-CB-CG	5.43	127.78	115.30
6	C	2156	VAL	CG1-CB-CG2	-5.42	102.23	110.90
6	C	65	LEU	CB-CG-CD1	-5.41	101.80	111.00
6	C	2563	LEU	CA-CB-CG	-5.37	102.95	115.30
2	B	490	LEU	CA-CB-CG	-5.33	103.04	115.30
5	E	17	DA	C1'-O4'-C4'	-5.33	104.77	110.10
4	D	-10	DA	O4'-C4'-C3'	-5.30	102.38	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	40	DT	O4'-C4'-C3'	-5.28	102.39	104.50
6	C	162	LEU	CA-CB-CG	5.25	127.37	115.30
6	C	659	ARG	NE-CZ-NH1	-5.22	117.69	120.30
6	C	201	LEU	CA-CB-CG	-5.21	103.31	115.30
5	E	37	DT	O4'-C4'-C3'	-5.19	102.42	104.50
6	C	1173	LEU	CA-CB-CG	-5.19	103.37	115.30
1	A	385	LEU	CA-CB-CG	5.16	127.17	115.30
1	A	205	LEU	CA-CB-CG	5.14	127.12	115.30
6	C	2545	LEU	CA-CB-CG	-5.14	103.48	115.30
4	D	6	DT	C5-C4-O4	-5.14	121.31	124.90
6	C	1063	LEU	CA-CB-CG	-5.14	103.48	115.30
6	C	2921	LEU	CA-CB-CG	5.14	127.11	115.30
4	D	6	DT	N3-C4-O4	5.12	122.97	119.90
6	C	1939	LEU	CA-CB-CG	-5.08	103.61	115.30
5	E	36	DA	C3'-C2'-C1'	-5.06	96.43	102.50
6	C	2441	LYS	CA-CB-CG	-5.04	102.31	113.40

There are no chirality outliers.

All (109) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	102	ILE	Peptide
1	A	109	ASP	Peptide
1	A	206	LYS	Peptide
1	A	268	VAL	Peptide
1	A	278	GLN	Peptide
1	A	282	LYS	Peptide
1	A	35	ARG	Peptide
1	A	359	HIS	Peptide
1	A	364	PRO	Peptide
1	A	365	SER	Peptide
1	A	406	ILE	Peptide
1	A	504	VAL	Peptide
2	B	234	LEU	Peptide
2	B	248	PRO	Peptide
2	B	314	PHE	Peptide
2	B	367	ALA	Peptide
2	B	369	ASP	Peptide
2	B	476	LEU	Peptide
2	B	485	PRO	Peptide
2	B	508	ILE	Peptide
6	C	1013	ILE	Peptide

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Mol	Chain	Res	Type	Group
6	C	1043	GLN	Peptide
6	C	1051	LYS	Peptide
6	C	1092	GLU	Peptide
6	C	1134	LEU	Peptide
6	C	1172	LEU	Peptide
6	C	1250	LEU	Peptide
6	C	1256	TRP	Peptide
6	C	1273	GLU	Peptide
6	C	1374	GLN	Peptide
6	C	143	LEU	Peptide
6	C	156	PHE	Peptide
6	C	1561	SER	Peptide
6	C	1736	PHE	Peptide
6	C	1762	MET	Peptide
6	C	1810	PRO	Peptide
6	C	187	SER	Peptide
6	C	1874	TYR	Peptide
6	C	1926	ASN	Peptide
6	C	2002	LYS	Peptide
6	C	2008	ARG	Peptide
6	C	2029	SER	Peptide
6	C	2056	SER	Peptide
6	C	2137	ILE	Peptide
6	C	2152	ASN	Peptide
6	C	2153	THR	Peptide
6	C	2167	PRO	Peptide
6	C	2205	VAL	Peptide
6	C	2231	PHE	Peptide
6	C	2245	TRP	Peptide
6	C	2283	ASN	Peptide
6	C	2308	SER	Peptide
6	C	2313	LYS	Peptide
6	C	2357	GLU	Peptide
6	C	2371	PHE	Peptide
6	C	2372	PRO	Peptide
6	C	2375	ALA	Peptide
6	C	2392	VAL	Peptide
6	C	2412	TYR	Peptide
6	C	2423	VAL	Peptide
6	C	2427	ARG	Peptide
6	C	2429	ASP	Peptide
6	C	260	ILE	Peptide

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Mol	Chain	Res	Type	Group
6	C	2884	LEU	Peptide
6	C	2936	TYR	Peptide
6	C	2939	LEU	Peptide
6	C	3031	TRP	Peptide
6	C	3036	TYR	Peptide
6	C	3083	SER	Peptide
6	C	3161	LEU	Peptide
6	C	3313	SER	Peptide
6	C	3314	SER	Peptide
6	C	3336	ILE	Peptide
6	C	3338	ALA	Peptide
6	C	3528	ALA	Peptide
6	C	3679	ASN	Peptide
6	C	3681	LYS	Peptide
6	C	3689	ASP	Peptide
6	C	3710	LYS	Peptide
6	C	374	LYS	Peptide
6	C	3875	GLU	Peptide
6	C	3924	HIS	Peptide
6	C	3971	MET	Peptide
6	C	3972	LEU	Peptide
6	C	4008	GLU	Peptide
6	C	4009	PRO	Peptide
6	C	4039	TYR	Peptide
6	C	406	ARG	Peptide
6	C	4082	ARG	Peptide
6	C	442	GLN	Peptide
6	C	474	VAL	Peptide
6	C	538	ASP	Peptide
6	C	567	GLU	Peptide
6	C	634	LEU	Peptide
6	C	638	GLN	Peptide
6	C	643	GLU	Peptide
6	C	649	PHE	Peptide
6	C	655	LEU	Peptide
6	C	657	SER	Peptide
6	C	669	LEU	Peptide
6	C	708	VAL	Peptide
6	C	710	PHE	Peptide
6	C	787	PRO	Peptide
6	C	805	LEU	Peptide
6	C	867	ASN	Peptide

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Mol	Chain	Res	Type	Group
6	C	899	ARG	Peptide
6	C	919	LEU	Peptide
6	C	949	PRO	Peptide
6	C	955	ALA	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3982	0	4064	899	0
2	B	4210	0	4250	708	0
3	K	75	0	74	5	0
4	D	700	0	388	182	0
5	E	733	0	410	214	0
6	C	29066	0	29396	5262	0
All	All	38766	0	38582	6927	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 90.

All (6927) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3809:THR:HA	6:C:3930:VAL:O	1.25	1.32
6:C:3740:ILE:HB	6:C:3748:HIS:O	1.38	1.22
1:A:378:SER:O	1:A:382:PHE:HB3	1.39	1.21
6:C:700:LYS:N	6:C:703:CYS:HG	1.35	1.21
2:B:264:TYR:HB2	2:B:363:LYS:O	1.43	1.19
6:C:2397:CYS:O	6:C:2401:VAL:HB	1.43	1.18
6:C:1549:SER:O	6:C:1553:PHE:HB2	1.45	1.17
6:C:221:ALA:O	6:C:225:LYS:HB2	1.46	1.16
6:C:1921:ASP:O	6:C:1925:GLU:HB2	1.44	1.16
6:C:3144:PHE:O	6:C:3148:GLN:HB3	1.45	1.15
6:C:572:VAL:O	6:C:576:VAL:HB	1.44	1.15
6:C:738:HIS:HA	6:C:741:ILE:HG12	1.26	1.14
6:C:2442:MET:HB3	6:C:2445:LYS:HB2	1.23	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2538:ARG:O	6:C:2542:LEU:HB2	1.44	1.13
1:A:274:TYR:HB2	1:A:367:PHE:O	1.48	1.13
2:B:362:LEU:O	2:B:420:VAL:HA	1.47	1.12
6:C:3881:ASP:O	6:C:3885:ARG:HB2	1.49	1.10
6:C:3068:ALA:O	6:C:3072:GLU:HB2	1.51	1.10
6:C:1986:ARG:O	6:C:1990:PHE:HB2	1.50	1.10
1:A:112:GLY:HA2	2:B:319:ASP:HB3	1.35	1.09
6:C:3571:PHE:O	6:C:3575:LEU:HB2	1.50	1.09
6:C:2962:ARG:HA	6:C:3003:ASN:HD21	1.09	1.08
6:C:2931:ARG:O	6:C:2935:GLU:HB3	1.52	1.07
6:C:2045:PHE:O	6:C:2049:VAL:HB	1.55	1.06
4:D:9:DG:N2	5:E:27:DC:O2	1.89	1.06
6:C:3883:LEU:O	6:C:3887:PHE:HB2	1.56	1.06
1:A:350:PHE:HA	1:A:395:ALA:O	1.53	1.06
4:D:11:DC:O2	5:E:25:DG:N2	1.90	1.05
6:C:1107:TYR:O	6:C:1111:LEU:HB2	1.55	1.05
6:C:4047:ALA:O	6:C:4051:LEU:HB2	1.56	1.05
4:D:9:DG:N1	5:E:27:DC:C2	2.24	1.05
6:C:867:ASN:HB2	6:C:868:LYS:HG3	1.39	1.05
6:C:1340:ARG:HA	6:C:1343:GLU:HG2	1.38	1.05
6:C:1070:PRO:HG2	6:C:1072:ALA:HB2	1.38	1.05
6:C:2888:VAL:O	6:C:2891:ARG:HB3	1.55	1.05
4:D:1:DG:N1	5:E:35:DC:N3	2.05	1.04
6:C:17:GLU:HG2	6:C:65:LEU:HD11	1.36	1.04
6:C:1640:GLU:O	6:C:1644:ALA:HB2	1.54	1.04
6:C:2382:VAL:HA	6:C:2385:LEU:HB2	1.36	1.04
6:C:1938:ARG:HD2	6:C:1986:ARG:HB3	1.39	1.04
6:C:2912:GLY:O	6:C:2916:LEU:HB3	1.59	1.03
6:C:3319:ASN:HB2	6:C:3399:PRO:HB2	1.40	1.03
6:C:2427:ARG:HH22	6:C:2433:LYS:HA	1.21	1.01
6:C:3631:LYS:HG2	6:C:3686:TRP:HB2	1.39	1.01
6:C:1260:LEU:O	6:C:1264:LEU:HB3	1.61	1.00
6:C:2452:ARG:HH22	6:C:2497:GLU:HB2	1.21	1.00
6:C:173:LYS:HA	6:C:176:GLU:HB2	1.42	1.00
1:A:114:LYS:O	1:A:118:GLU:HB3	1.59	0.99
6:C:3589:SER:O	6:C:3593:ARG:HB3	1.63	0.99
6:C:2140:LEU:O	6:C:2143:ARG:HB2	1.62	0.99
6:C:449:TYR:HB2	6:C:454:GLN:HE21	1.25	0.98
6:C:1032:CYS:O	6:C:1035:GLU:HB3	1.63	0.98
4:D:1:DG:N2	5:E:35:DC:O2	1.96	0.98
6:C:1983:ASP:HA	6:C:1986:ARG:HB2	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3603:LYS:O	6:C:3607:GLU:HB2	1.62	0.98
6:C:2781:PRO:HA	6:C:2784:GLN:HB3	1.45	0.97
6:C:609:ALA:O	6:C:613:HIS:HB2	1.64	0.97
1:A:232:HIS:HB3	1:A:425:ILE:HG23	1.42	0.97
1:A:247:ARG:O	1:A:488:ARG:NH2	1.98	0.97
6:C:964:ARG:NH1	6:C:964:ARG:O	1.98	0.97
4:D:10:DG:N2	5:E:26:DC:O2	1.98	0.97
6:C:1116:ALA:HA	6:C:1119:LYS:HD3	1.47	0.97
6:C:3977:THR:O	6:C:3981:TYR:HB2	1.65	0.97
6:C:620:PHE:O	6:C:659:ARG:NH1	1.96	0.97
6:C:108:LYS:HB3	6:C:153:PHE:HE2	1.30	0.96
6:C:70:ARG:HH22	6:C:75:SER:HA	1.31	0.96
6:C:797:ASP:HB3	6:C:870:LEU:H	1.30	0.96
4:D:9:DG:C2	5:E:27:DC:C2	2.54	0.96
4:D:11:DC:N3	5:E:25:DG:N1	2.12	0.96
6:C:1067:ALA:HA	6:C:1075:ARG:HE	1.29	0.96
6:C:4080:VAL:HG12	6:C:4115:ASN:HD21	1.28	0.96
6:C:2887:PRO:O	6:C:2890:ILE:HB	1.65	0.95
4:D:10:DG:N1	5:E:26:DC:N3	2.13	0.95
6:C:39:GLY:O	6:C:42:CYS:HB3	1.66	0.95
6:C:2890:ILE:O	6:C:2893:LEU:HB3	1.66	0.95
6:C:2991:LYS:O	6:C:2995:GLU:HB2	1.66	0.95
6:C:852:ARG:HH22	6:C:3114:TYR:HB2	1.28	0.95
4:D:2:DG:H2'	4:D:3:DT:C6	2.02	0.94
6:C:2575:PRO:HB2	6:C:2787:HIS:HB2	1.46	0.94
1:A:402:PRO:HD2	1:A:406:ILE:HG21	1.48	0.94
6:C:979:VAL:O	6:C:983:LEU:HB2	1.66	0.94
6:C:1503:LEU:O	6:C:1507:CYS:HB2	1.67	0.94
6:C:2952:ILE:HG21	6:C:2969:ALA:HB2	1.49	0.94
6:C:3319:ASN:HD21	6:C:3408:GLY:HA3	1.32	0.94
6:C:2386:LEU:HD13	6:C:2404:ARG:HD3	1.49	0.94
6:C:788:TYR:O	6:C:791:ASP:HB2	1.67	0.94
6:C:2225:HIS:O	6:C:2228:ARG:N	1.99	0.94
6:C:2522:ARG:NH1	6:C:2526:SER:OG	1.98	0.94
6:C:47:SER:H	6:C:51:LEU:HB2	1.32	0.94
6:C:31:GLY:O	6:C:34:LEU:HB3	1.66	0.94
6:C:2328:ARG:HH12	6:C:2370:SER:HB3	1.30	0.94
1:A:403:ARG:NH2	5:E:36:DA:N3	2.15	0.93
2:B:450:GLN:O	2:B:532:LYS:NZ	2.01	0.93
6:C:2933:ILE:O	6:C:2937:ASP:HB2	1.68	0.93
6:C:3003:ASN:HD22	6:C:3006:ALA:HB3	1.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3297:VAL:O	6:C:3301:LEU:HB3	1.66	0.93
6:C:3152:SER:HB2	6:C:3153:SER:HB3	1.50	0.93
6:C:3794:VAL:HB	6:C:3802:LEU:HB2	1.50	0.93
6:C:986:PRO:HA	6:C:2776:ARG:HH22	1.34	0.93
6:C:2242:VAL:O	6:C:2246:LYS:NZ	2.02	0.93
6:C:3130:GLN:NE2	6:C:3181:ASP:OD2	2.02	0.93
6:C:3469:LEU:HG	6:C:3473:GLU:HB2	1.48	0.93
6:C:1069:HIS:HB3	6:C:3741:ARG:HE	1.30	0.93
6:C:3860:LYS:HB3	6:C:3863:ASN:HB3	1.51	0.93
6:C:3999:THR:O	6:C:4003:ASP:HB2	1.68	0.93
2:B:489:ARG:NH1	2:B:493:CYS:SG	2.42	0.93
6:C:1974:ASN:HD22	6:C:1984:LEU:HD13	1.32	0.93
6:C:3813:LYS:HD3	6:C:3925:LEU:HD11	1.48	0.93
2:B:494:LEU:O	2:B:498:ALA:HB3	1.69	0.92
6:C:920:THR:HA	6:C:923:ASP:HB3	1.51	0.92
6:C:2989:ALA:O	6:C:2993:PHE:N	2.02	0.92
6:C:986:PRO:O	6:C:2776:ARG:NH1	2.02	0.92
6:C:3833:ARG:HB3	6:C:3835:PRO:HD2	1.50	0.92
1:A:318:ARG:HB3	2:B:276:TRP:HB3	1.52	0.92
6:C:2434:VAL:O	6:C:2437:ASP:HB2	1.69	0.92
6:C:759:GLY:HA3	6:C:773:LEU:HD11	1.49	0.92
6:C:3283:LEU:O	6:C:3286:CYS:N	2.03	0.92
2:B:343:LEU:N	2:B:392:ILE:O	2.01	0.91
1:A:290:ARG:HA	2:B:311:ILE:HG23	1.52	0.91
1:A:164:LYS:HD2	1:A:198:ILE:HG12	1.52	0.91
6:C:2227:LYS:HG3	6:C:2232:ARG:HA	1.52	0.91
6:C:434:VAL:O	6:C:438:LEU:HB2	1.70	0.91
6:C:66:LEU:HD22	6:C:85:ILE:HG21	1.52	0.91
6:C:364:ARG:O	6:C:368:LEU:N	2.04	0.91
6:C:2211:LEU:HA	6:C:2214:ARG:HH21	1.33	0.91
6:C:10:CYS:O	6:C:14:ARG:N	2.02	0.90
6:C:1516:GLU:O	6:C:1520:ALA:HB2	1.70	0.90
6:C:2235:LEU:O	6:C:2238:ILE:N	2.03	0.90
1:A:321:ILE:H	2:B:274:LYS:HZ2	1.19	0.90
1:A:410:PHE:HB3	1:A:437:LEU:HD12	1.53	0.90
6:C:723:ASP:H	6:C:726:LEU:HB2	1.36	0.90
6:C:2317:ALA:O	6:C:2321:GLU:N	2.04	0.90
1:A:289:TYR:HD1	2:B:310:ILE:HG22	1.36	0.90
6:C:654:ILE:HA	6:C:730:LEU:HD21	1.51	0.90
6:C:357:LYS:HB3	6:C:360:SER:HB2	1.50	0.90
6:C:3872:ARG:HH21	6:C:3873:LYS:HE3	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:GLU:O	1:A:516:LYS:HB2	1.71	0.90
6:C:2072:ARG:H	6:C:2075:THR:HG1	1.18	0.89
6:C:1071:ASN:ND2	6:C:3742:GLY:O	2.04	0.89
6:C:3581:PRO:HA	6:C:3584:LEU:HD13	1.54	0.89
6:C:82:ARG:HD2	6:C:130:LEU:HG	1.55	0.89
6:C:2965:TYR:O	6:C:2968:ALA:N	2.05	0.89
6:C:1639:LEU:O	6:C:1643:MET:HB3	1.72	0.89
6:C:2293:GLY:HA2	6:C:2297:SER:HA	1.54	0.89
6:C:3279:SER:HA	6:C:3282:ARG:HD3	1.52	0.89
6:C:277:LEU:N	6:C:280:SER:HB3	1.87	0.89
6:C:1747:LEU:O	6:C:1751:GLU:HB2	1.73	0.89
6:C:2396:LEU:O	6:C:2400:VAL:HB	1.72	0.89
6:C:3500:SER:O	6:C:3759:ARG:NH1	2.05	0.89
6:C:316:LEU:O	6:C:320:LEU:CB	2.21	0.89
6:C:888:ARG:HH22	6:C:3892:THR:HA	1.38	0.89
6:C:2523:ASN:O	6:C:2526:SER:N	2.04	0.89
6:C:2554:PHE:HA	6:C:2557:LEU:HD12	1.54	0.89
1:A:465:ILE:HG23	1:A:518:LEU:HD11	1.52	0.89
6:C:2966:SER:O	6:C:2970:LYS:HB2	1.71	0.89
6:C:2072:ARG:N	6:C:2075:THR:OG1	2.06	0.88
6:C:2931:ARG:HE	6:C:2956:ALA:HB1	1.37	0.88
1:A:101:ASN:ND2	1:A:139:SER:OG	2.05	0.88
6:C:3904:PHE:O	6:C:3907:SER:OG	1.91	0.88
4:D:-2:DT:H3	5:E:39:DA:H2	1.17	0.88
4:D:1:DG:O6	5:E:35:DC:N4	2.05	0.88
6:C:3298:LEU:O	6:C:3302:LYS:N	2.06	0.88
6:C:277:LEU:HB2	6:C:280:SER:H	1.37	0.88
6:C:2962:ARG:HA	6:C:3003:ASN:ND2	1.88	0.88
4:D:-8:DT:H2'	4:D:-7:DA:C8	2.09	0.88
6:C:399:GLN:NE2	6:C:406:ARG:O	2.06	0.88
6:C:3923:ARG:HA	6:C:3927:ASN:HB2	1.55	0.88
6:C:2515:PRO:HB2	6:C:2518:GLN:HG3	1.56	0.88
6:C:3038:GLU:O	6:C:3041:LEU:HB3	1.74	0.88
6:C:620:PHE:O	6:C:623:PHE:N	2.06	0.88
6:C:1107:TYR:O	6:C:1111:LEU:CB	2.21	0.88
1:A:204:HIS:HB3	1:A:237:SER:HB2	1.53	0.87
6:C:11:SER:O	6:C:15:LEU:HB2	1.74	0.87
6:C:2372:PRO:O	6:C:2374:LEU:N	2.07	0.87
6:C:238:MET:HG3	6:C:239:GLU:HG3	1.56	0.87
6:C:1067:ALA:HA	6:C:1075:ARG:NE	1.89	0.87
6:C:1740:VAL:O	6:C:1744:LYS:HB2	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3569:GLN:O	6:C:3572:ILE:N	2.06	0.87
1:A:94:LYS:O	1:A:104:VAL:N	2.08	0.87
6:C:3121:LEU:H	6:C:3124:SER:HB2	1.37	0.87
1:A:377:GLY:O	1:A:381:LEU:N	2.07	0.87
6:C:614:PRO:O	6:C:618:LYS:N	2.06	0.87
6:C:458:CYS:SG	6:C:536:SER:OG	2.33	0.87
6:C:1396:PRO:HA	6:C:1457:GLN:HE21	1.39	0.87
6:C:1907:GLU:HA	6:C:1910:GLU:HB3	1.56	0.87
1:A:277:VAL:HG13	1:A:279:LYS:H	1.39	0.87
4:D:9:DG:C2	5:E:27:DC:O2	2.27	0.87
6:C:399:GLN:HG2	6:C:405:ASP:HB2	1.55	0.87
6:C:609:ALA:O	6:C:613:HIS:CB	2.23	0.87
6:C:1325:GLN:NE2	6:C:1328:GLU:OE1	2.06	0.87
6:C:3629:ARG:O	6:C:3686:TRP:NE1	2.07	0.87
6:C:353:ASP:HA	6:C:1858:LEU:HD12	1.57	0.87
6:C:443:ILE:O	6:C:449:TYR:OH	1.93	0.87
6:C:1688:LEU:O	6:C:1692:ALA:HB2	1.73	0.87
6:C:2364:LEU:O	6:C:2368:THR:OG1	1.91	0.87
6:C:3571:PHE:O	6:C:3575:LEU:CB	2.22	0.86
6:C:779:TYR:O	6:C:783:HIS:N	2.07	0.86
6:C:1751:GLU:O	6:C:1755:SER:N	2.08	0.86
6:C:2961:ALA:O	6:C:3003:ASN:ND2	2.08	0.86
6:C:927:LYS:HE2	6:C:972:LEU:HD11	1.57	0.86
6:C:3947:GLY:O	6:C:3951:GLN:HB2	1.74	0.86
2:B:407:VAL:HG13	2:B:422:VAL:HG23	1.56	0.86
6:C:746:ARG:H	6:C:748:TYR:HE2	1.19	0.86
6:C:1100:VAL:O	6:C:1104:LEU:CB	2.24	0.86
6:C:2962:ARG:NH2	6:C:3006:ALA:O	2.07	0.86
6:C:3538:GLU:O	6:C:3541:SER:HB2	1.75	0.86
6:C:462:VAL:HA	6:C:465:PHE:HD2	1.40	0.86
6:C:933:LEU:O	6:C:937:MET:HB2	1.74	0.86
6:C:1747:LEU:O	6:C:1751:GLU:CB	2.23	0.86
6:C:3048:LYS:O	6:C:3052:LEU:N	2.08	0.86
6:C:3480:LEU:O	6:C:3484:THR:HB	1.75	0.86
1:A:167:MET:HE1	1:A:203:MET:H	1.41	0.86
6:C:902:LYS:O	6:C:2818:LYS:NZ	2.08	0.86
6:C:2101:VAL:O	6:C:2105:HIS:CB	2.24	0.86
6:C:3951:GLN:HE21	6:C:4068:HIS:HB2	1.41	0.86
6:C:304:THR:O	6:C:309:LYS:NZ	2.08	0.86
6:C:550:PHE:HB2	6:C:633:ILE:HD12	1.58	0.86
6:C:2994:TRP:O	6:C:2998:SER:OG	1.94	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:290:TYR:O	6:C:293:LEU:N	2.09	0.86
1:A:94:LYS:HG2	1:A:104:VAL:HB	1.57	0.85
6:C:1100:VAL:O	6:C:1104:LEU:HB3	1.76	0.85
6:C:3477:GLU:O	6:C:3481:SER:N	2.06	0.85
6:C:148:LYS:HA	6:C:151:GLU:HB3	1.56	0.85
6:C:2114:GLU:HG3	6:C:2116:ASP:H	1.41	0.85
6:C:2325:LEU:HD23	6:C:2328:ARG:HD2	1.58	0.85
6:C:3181:ASP:O	6:C:3184:THR:OG1	1.92	0.85
6:C:2237:ILE:O	6:C:2240:THR:OG1	1.93	0.85
6:C:1726:SER:HA	6:C:1866:GLN:HE22	1.41	0.85
6:C:3449:LYS:O	6:C:3453:ALA:N	2.09	0.85
6:C:629:PHE:O	6:C:631:ARG:NH1	2.08	0.85
6:C:713:GLU:O	6:C:717:LYS:HB2	1.76	0.85
1:A:379:SER:O	1:A:383:SER:HB3	1.76	0.85
6:C:1102:GLU:HG3	6:C:1153:LEU:HD11	1.59	0.85
6:C:3003:ASN:HA	6:C:3006:ALA:HB3	1.58	0.85
1:A:46:LYS:NZ	1:A:137:HIS:O	2.10	0.85
1:A:143:LEU:HD12	1:A:144:SER:H	1.40	0.85
6:C:2342:CYS:O	6:C:2345:VAL:N	2.09	0.85
6:C:3957:GLU:HG2	6:C:4120:THR:HG23	1.59	0.85
6:C:700:LYS:N	6:C:703:CYS:SG	2.50	0.85
6:C:2438:ILE:O	6:C:2441:LYS:NZ	2.09	0.85
6:C:2966:SER:O	6:C:2970:LYS:CB	2.25	0.85
1:A:451:LYS:HD3	2:B:416:TYR:HA	1.59	0.85
6:C:283:SER:O	6:C:287:LEU:N	2.09	0.85
2:B:526:SER:O	2:B:530:LEU:N	2.09	0.84
6:C:262:LEU:O	6:C:266:ALA:N	2.09	0.84
6:C:2281:MET:O	6:C:2329:TYR:OH	1.95	0.84
1:A:254:ARG:HE	4:D:0:DT:H4'	1.40	0.84
6:C:135:LEU:HD22	6:C:176:GLU:HG2	1.58	0.84
6:C:868:LYS:O	6:C:871:LEU:N	2.09	0.84
6:C:1808:ASP:HA	6:C:1811:ARG:HE	1.42	0.84
6:C:2188:GLU:HA	6:C:2191:ALA:HB3	1.60	0.84
6:C:3451:LEU:O	6:C:3455:LYS:NZ	2.09	0.84
6:C:17:GLU:O	6:C:21:ALA:HB2	1.75	0.84
6:C:607:ASP:HA	6:C:610:ALA:HB3	1.58	0.84
6:C:3793:VAL:HG12	6:C:3795:PRO:HD3	1.58	0.84
2:B:532:LYS:HE3	2:B:536:LEU:HD12	1.57	0.84
6:C:736:LEU:O	6:C:739:ASN:N	2.10	0.84
6:C:2376:ASP:HA	6:C:2379:MET:HB3	1.60	0.84
6:C:3160:LEU:O	6:C:3163:THR:N	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:ASP:HA	1:A:221:ILE:HA	1.60	0.84
6:C:1480:GLY:O	6:C:1484:LEU:CB	2.26	0.84
6:C:3132:VAL:HA	6:C:3135:LEU:HD12	1.60	0.84
6:C:3868:VAL:O	6:C:3872:ARG:HB3	1.76	0.84
6:C:16:GLN:O	6:C:20:SER:OG	1.96	0.84
6:C:1274:ARG:HA	6:C:1278:ALA:HB3	1.58	0.84
6:C:2975:ALA:O	6:C:2978:LYS:NZ	2.09	0.84
6:C:3276:TRP:HZ3	6:C:3303:THR:HB	1.43	0.84
6:C:3232:ARG:NH2	6:C:3266:SER:O	2.11	0.84
6:C:3435:ASP:O	6:C:3439:LEU:HB3	1.78	0.84
1:A:124:GLY:O	1:A:128:GLN:N	2.11	0.83
1:A:290:ARG:H	2:B:311:ILE:H	1.23	0.83
2:B:314:PHE:O	2:B:321:VAL:N	2.09	0.83
6:C:1603:GLN:HG3	6:C:1606:ARG:HH22	1.42	0.83
6:C:3629:ARG:HH11	6:C:3638:LYS:HZ1	1.26	0.83
1:A:231:VAL:N	1:A:424:LYS:O	2.11	0.83
6:C:204:LEU:HA	6:C:207:GLN:HG2	1.60	0.83
6:C:1920:TYR:HA	6:C:1923:PHE:HB3	1.61	0.83
6:C:3868:VAL:O	6:C:3872:ARG:CB	2.26	0.83
2:B:184:ARG:NH2	2:B:517:ASN:O	2.12	0.83
6:C:2865:HIS:HB2	6:C:2868:LEU:HB2	1.59	0.83
1:A:412:ALA:N	1:A:435:VAL:O	2.11	0.83
6:C:933:LEU:HD11	6:C:2791:ILE:HG23	1.60	0.83
6:C:964:ARG:HH22	6:C:971:ARG:HH22	1.26	0.83
6:C:1252:ALA:O	6:C:1256:TRP:N	2.12	0.83
6:C:2433:LYS:HG3	6:C:2436:LEU:HD12	1.61	0.83
6:C:2510:LEU:HA	6:C:2522:ARG:HG2	1.57	0.83
6:C:3124:SER:O	6:C:3125:ARG:NH2	2.12	0.83
4:D:-2:DT:N3	5:E:39:DA:H2	1.75	0.83
6:C:1078:ALA:O	6:C:1082:PHE:CB	2.26	0.83
6:C:1165:LEU:O	6:C:1169:VAL:N	2.12	0.83
6:C:2462:VAL:HG22	6:C:2470:ARG:HD3	1.58	0.83
6:C:3923:ARG:O	6:C:4124:TRP:NE1	2.11	0.83
1:A:127:GLY:HA2	1:A:130:ARG:HG2	1.60	0.83
1:A:232:HIS:ND1	1:A:421:ASP:OD2	2.12	0.83
6:C:3024:PRO:O	6:C:3027:LEU:N	2.12	0.83
6:C:3042:PRO:O	6:C:3046:ARG:N	2.12	0.83
6:C:1946:ASN:HA	6:C:1949:ILE:HG22	1.58	0.83
6:C:2427:ARG:NH2	6:C:2435:CYS:SG	2.52	0.83
6:C:3765:GLU:HA	6:C:3768:PHE:HD2	1.41	0.83
6:C:4077:TYR:O	6:C:4081:ALA:N	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:ASP:O	1:A:110:ASN:ND2	2.11	0.83
1:A:94:LYS:H	1:A:103:TYR:HA	1.43	0.83
1:A:410:PHE:HZ	2:B:516:LEU:HA	1.44	0.83
1:A:414:VAL:HB	1:A:433:GLN:HB2	1.60	0.83
1:A:468:LYS:HG3	1:A:517:ARG:HG2	1.59	0.83
2:B:332:LYS:O	2:B:334:LYS:NZ	2.12	0.83
6:C:2101:VAL:O	6:C:2105:HIS:HB2	1.78	0.83
6:C:2944:THR:HG21	6:C:2987:THR:HA	1.61	0.83
6:C:3703:GLY:H	6:C:3706:ASP:CG	1.82	0.82
2:B:495:LEU:HG	2:B:499:LEU:HD12	1.61	0.82
6:C:2532:PRO:O	6:C:2538:ARG:NH2	2.11	0.82
6:C:3480:LEU:O	6:C:3484:THR:CB	2.27	0.82
6:C:3813:LYS:HE3	6:C:3817:LEU:HD11	1.62	0.82
6:C:2346:ALA:O	6:C:2349:LEU:N	2.13	0.82
6:C:4084:SER:O	6:C:4087:HIS:N	2.11	0.82
6:C:67:VAL:O	6:C:71:LYS:HB2	1.79	0.82
6:C:1900:PHE:O	6:C:1904:CYS:N	2.10	0.82
4:D:8:DT:H2"	4:D:9:DG:H8	1.45	0.82
6:C:231:LEU:HB3	6:C:277:LEU:HD11	1.59	0.82
6:C:741:ILE:O	6:C:745:VAL:N	2.11	0.82
6:C:1065:SER:O	6:C:1068:LEU:N	2.12	0.82
6:C:1750:LEU:O	6:C:1754:GLN:HB2	1.80	0.82
6:C:4013:TRP:CE2	6:C:4040:PRO:HB2	2.15	0.82
1:A:71:TYR:OH	1:A:109:ASP:OD2	1.96	0.82
6:C:3005:LEU:O	6:C:3046:ARG:NH2	2.13	0.82
1:A:151:ALA:O	1:A:154:PHE:N	2.13	0.82
2:B:297:LEU:N	2:B:303:THR:O	2.12	0.82
6:C:1078:ALA:O	6:C:1082:PHE:HB2	1.78	0.82
6:C:1116:ALA:O	6:C:1119:LYS:NZ	2.13	0.82
6:C:2086:ASP:O	6:C:2090:ARG:N	2.09	0.82
6:C:3579:SER:O	6:C:3630:ARG:NH1	2.13	0.82
6:C:1039:TRP:HZ2	6:C:1049:GLN:HG2	1.44	0.82
6:C:2398:LEU:O	6:C:2402:LEU:HB3	1.80	0.82
6:C:3326:GLN:HA	6:C:3389:VAL:HG22	1.61	0.82
6:C:3435:ASP:O	6:C:3439:LEU:CB	2.28	0.82
6:C:3537:SER:O	6:C:3541:SER:OG	1.97	0.82
1:A:201:ASP:OD1	1:A:222:SER:N	2.11	0.81
6:C:534:LEU:O	6:C:537:SER:OG	1.98	0.81
6:C:2845:ASN:ND2	6:C:3033:GLU:OE2	2.12	0.81
6:C:1046:PRO:HA	6:C:1049:GLN:HB2	1.62	0.81
1:A:278:GLN:HE22	4:D:2:DG:H8	1.25	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:70:ARG:HD2	6:C:73:LEU:HB2	1.62	0.81
6:C:318:SER:O	6:C:321:LYS:N	2.13	0.81
6:C:1928:ALA:HA	6:C:1938:ARG:HH12	1.42	0.81
6:C:2190:VAL:O	6:C:2193:ILE:N	2.13	0.81
6:C:3064:PHE:HA	6:C:3067:LYS:HG2	1.60	0.81
6:C:3998:LEU:HD12	6:C:4001:THR:HB	1.62	0.81
2:B:529:PRO:HA	2:B:532:LYS:HG2	1.60	0.81
6:C:316:LEU:O	6:C:320:LEU:HB3	1.79	0.81
6:C:571:SER:HB2	6:C:605:THR:H	1.44	0.81
6:C:2353:GLN:HG2	6:C:2361:ILE:HD13	1.63	0.81
6:C:977:ASP:HB3	6:C:979:VAL:HG22	1.63	0.81
6:C:2057:GLN:HB3	6:C:2059:PRO:HD2	1.63	0.81
1:A:184:SER:O	1:A:188:THR:OG1	1.98	0.81
6:C:13:LEU:HD21	6:C:58:VAL:HA	1.61	0.81
6:C:2276:LEU:O	6:C:2279:ILE:N	2.13	0.81
6:C:3731:SER:HB2	6:C:3734:ARG:H	1.43	0.81
6:C:3985:VAL:O	6:C:3988:LEU:N	2.12	0.81
6:C:198:ARG:HA	6:C:201:LEU:HD12	1.63	0.81
6:C:805:LEU:HD11	6:C:3115:SER:HA	1.62	0.81
6:C:956:PRO:O	6:C:960:GLN:HB2	1.81	0.81
6:C:2078:ASP:HB2	6:C:2135:ASN:HD21	1.44	0.81
6:C:376:ILE:HB	6:C:381:VAL:HG22	1.63	0.81
6:C:881:LYS:HG3	6:C:883:TYR:HE2	1.46	0.81
6:C:1077:GLY:HA2	6:C:1080:LEU:HG	1.62	0.81
6:C:3068:ALA:O	6:C:3072:GLU:CB	2.28	0.81
1:A:399:ARG:NH1	2:B:517:ASN:OD1	2.14	0.81
1:A:403:ARG:NH1	5:E:37:DT:O4'	2.13	0.81
4:D:-4:DA:N6	5:E:40:DT:O4	2.14	0.81
6:C:52:ALA:O	6:C:55:THR:OG1	1.98	0.81
6:C:559:SER:HA	6:C:562:HIS:CD2	2.16	0.81
6:C:1972:GLU:OE2	6:C:1987:ARG:NH2	2.14	0.80
6:C:3502:MET:HA	6:C:3505:LEU:HB3	1.63	0.80
6:C:495:VAL:HG22	6:C:527:TYR:HD2	1.45	0.80
6:C:2152:ASN:HB3	6:C:2153:THR:HA	1.62	0.80
6:C:437:HIS:HB2	6:C:1814:PHE:HB3	1.63	0.80
6:C:1232:PRO:HB2	6:C:1291:LEU:HB3	1.63	0.80
6:C:2236:GLU:N	6:C:2236:GLU:OE1	2.11	0.80
6:C:2531:LEU:HD22	6:C:2538:ARG:HG3	1.63	0.80
4:D:5:DT:H2'	4:D:6:DT:C6	2.17	0.80
6:C:86:LEU:HD23	6:C:89:LEU:HD12	1.62	0.80
6:C:3672:LYS:HA	6:C:3675:LYS:HE2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3533:PHE:O	6:C:3537:SER:N	2.12	0.80
1:A:351:LYS:O	1:A:394:VAL:HA	1.80	0.80
6:C:365:GLY:O	6:C:369:PHE:N	2.13	0.80
6:C:483:VAL:O	6:C:487:LEU:HB2	1.80	0.80
6:C:2186:VAL:HA	6:C:2189:ILE:HB	1.64	0.80
6:C:4066:LEU:O	6:C:4075:ARG:NH2	2.14	0.80
6:C:55:THR:O	6:C:58:VAL:N	2.15	0.80
6:C:67:VAL:O	6:C:71:LYS:CB	2.30	0.80
6:C:741:ILE:HG13	6:C:745:VAL:HG22	1.64	0.80
6:C:863:GLY:HA2	6:C:866:ILE:HD13	1.62	0.80
6:C:1413:ASP:HA	6:C:1416:GLU:HB2	1.64	0.80
6:C:1973:LYS:HE2	6:C:1975:LEU:HD12	1.64	0.80
6:C:2094:MET:O	6:C:2097:LEU:N	2.15	0.80
6:C:3847:SER:HA	6:C:3857:LEU:HD12	1.63	0.80
4:D:3:DT:H3'	4:D:4:DA:H8	1.47	0.80
6:C:50:VAL:O	6:C:54:GLN:HB2	1.81	0.80
4:D:6:DT:H2'	4:D:7:DA:C8	2.17	0.80
6:C:643:GLU:O	6:C:646:VAL:N	2.15	0.80
6:C:907:LEU:N	6:C:2807:GLN:HE22	1.80	0.80
6:C:3663:THR:HA	6:C:3666:LEU:HB3	1.61	0.80
1:A:302:THR:HG22	2:B:291:LYS:HA	1.63	0.80
1:A:427:VAL:HG23	1:A:428:THR:HG23	1.61	0.80
2:B:264:TYR:O	2:B:362:LEU:HA	1.81	0.80
6:C:2056:SER:HA	6:C:2060:ARG:HH11	1.47	0.80
6:C:3931:ALA:O	6:C:3935:GLY:N	2.15	0.80
6:C:2813:PHE:O	6:C:2817:LEU:N	2.14	0.79
6:C:2885:GLN:OE1	6:C:2885:GLN:N	2.13	0.79
6:C:3467:ARG:HD3	6:C:4004:VAL:HB	1.64	0.79
1:A:378:SER:HA	1:A:381:LEU:HB3	1.64	0.79
6:C:139:ARG:O	6:C:142:ARG:N	2.14	0.79
6:C:1133:HIS:HB3	6:C:1136:ARG:HH12	1.48	0.79
6:C:3329:LEU:O	6:C:3333:THR:OG1	2.00	0.79
6:C:3485:LYS:O	6:C:3489:SER:HB3	1.82	0.79
6:C:100:ILE:O	6:C:104:SER:N	2.14	0.79
6:C:643:GLU:HB3	6:C:647:TYR:CE2	2.17	0.79
6:C:2383:PHE:HA	6:C:2404:ARG:NH2	1.97	0.79
6:C:3043:TYR:O	6:C:3047:SER:N	2.15	0.79
6:C:410:MET:O	6:C:413:PHE:N	2.16	0.79
6:C:2348:GLN:HG2	6:C:2352:HIS:CE1	2.17	0.79
6:C:3411:ASP:O	6:C:3415:THR:OG1	1.99	0.79
6:C:888:ARG:NH1	6:C:3891:SER:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1591:LYS:O	6:C:1683:LYS:NZ	2.15	0.79
6:C:4001:THR:O	6:C:4005:PHE:HB2	1.82	0.79
1:A:478:PHE:O	2:B:427:MET:N	2.14	0.79
5:E:28:DA:H2'	5:E:29:DT:O4'	1.82	0.79
6:C:361:ILE:O	6:C:364:ARG:HG2	1.81	0.79
6:C:495:VAL:HG13	6:C:527:TYR:HB3	1.65	0.79
2:B:226:SER:O	2:B:230:SER:OG	2.00	0.79
6:C:287:LEU:O	6:C:290:TYR:N	2.15	0.79
6:C:1168:LEU:O	6:C:1171:TRP:HB3	1.83	0.79
6:C:1740:VAL:O	6:C:1744:LYS:CB	2.30	0.79
6:C:1876:ILE:HG23	6:C:1877:LEU:HG	1.62	0.79
6:C:3661:ASP:HA	6:C:3664:ASN:HD22	1.46	0.79
6:C:3862:ALA:O	6:C:3865:THR:OG1	2.01	0.79
6:C:3881:ASP:O	6:C:3885:ARG:CB	2.29	0.79
1:A:512:GLU:O	1:A:516:LYS:CB	2.31	0.79
2:B:524:THR:HA	2:B:527:GLN:HG2	1.62	0.79
5:E:37:DT:H2''	5:E:38:DA:C5	2.18	0.79
6:C:471:LYS:NZ	6:C:474:VAL:H	1.81	0.79
6:C:993:HIS:CD2	6:C:1038:LYS:HD3	2.18	0.79
6:C:2869:LEU:HD13	6:C:2889:GLY:HA2	1.65	0.79
6:C:2955:SER:HB3	6:C:2960:GLU:HB3	1.65	0.79
6:C:2160:TYR:HA	6:C:2163:HIS:CD2	2.17	0.79
6:C:3538:GLU:HA	6:C:3797:THR:HA	1.65	0.79
6:C:3865:THR:HG22	6:C:4115:ASN:HB2	1.65	0.79
6:C:1980:ASN:O	6:C:1984:LEU:HB2	1.83	0.79
6:C:2493:ASN:OD1	6:C:2494:ASP:N	2.16	0.79
2:B:509:GLN:HB2	2:B:511:HIS:CE1	2.18	0.78
6:C:50:VAL:O	6:C:54:GLN:CB	2.31	0.78
6:C:1142:HIS:HB2	6:C:1145:LEU:HB2	1.63	0.78
6:C:1356:TRP:HA	6:C:1359:LEU:HB2	1.64	0.78
6:C:2095:ALA:O	6:C:2098:THR:OG1	2.00	0.78
6:C:3240:MET:HA	6:C:3243:ILE:HD12	1.65	0.78
6:C:310:LYS:HA	6:C:313:LEU:HD12	1.64	0.78
1:A:352:PRO:HB2	1:A:355:LEU:HB2	1.66	0.78
6:C:850:GLU:HB3	6:C:854:ARG:HH12	1.45	0.78
6:C:1917:LYS:HZ3	6:C:1956:PHE:HA	1.48	0.78
6:C:3121:LEU:O	6:C:3125:ARG:N	2.16	0.78
1:A:204:HIS:O	1:A:238:LYS:NZ	2.13	0.78
6:C:621:SER:O	6:C:659:ARG:NH2	2.17	0.78
6:C:2427:ARG:HH22	6:C:2433:LYS:CA	1.96	0.78
6:C:2828:GLU:OE1	6:C:2831:ASN:ND2	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3622:ALA:O	6:C:3626:GLY:N	2.16	0.78
1:A:194:ARG:NH2	1:A:221:ILE:O	2.17	0.78
1:A:354:VAL:N	1:A:393:GLU:OE2	2.16	0.78
6:C:2371:PHE:HE2	6:C:2378:PHE:HE2	1.29	0.78
1:A:128:GLN:HE21	1:A:132:GLN:HE21	1.32	0.78
1:A:484:GLN:HE21	1:A:488:ARG:HH21	1.32	0.78
6:C:262:LEU:HD11	6:C:307:GLU:HB2	1.66	0.78
6:C:3767:LEU:HD13	6:C:4001:THR:HG21	1.64	0.78
2:B:56:LEU:HD23	2:B:80:HIS:HB3	1.66	0.78
6:C:385:TYR:H	6:C:388:LEU:HB3	1.49	0.78
6:C:1480:GLY:O	6:C:1484:LEU:HB2	1.83	0.78
6:C:2352:HIS:HB2	6:C:2364:LEU:HD11	1.64	0.78
1:A:85:VAL:HB	1:A:105:LEU:HD23	1.65	0.78
2:B:167:PHE:O	2:B:226:SER:OG	2.01	0.78
6:C:1755:SER:HB3	6:C:1863:PHE:CD1	2.19	0.78
6:C:1946:ASN:OD1	6:C:1950:SER:OG	2.01	0.78
6:C:3066:ASP:O	6:C:3069:MET:N	2.16	0.78
6:C:3740:ILE:CB	6:C:3748:HIS:O	2.29	0.78
2:B:20:MET:HA	2:B:30:PRO:HB2	1.64	0.78
6:C:2427:ARG:NH1	6:C:2429:ASP:O	2.14	0.78
6:C:3284:SER:HA	6:C:3287:ARG:HB3	1.66	0.78
6:C:4090:ARG:NH1	6:C:4113:ASP:OD2	2.17	0.78
6:C:336:ASN:O	6:C:339:GLN:N	2.16	0.78
6:C:859:LEU:HB3	6:C:866:ILE:HD12	1.66	0.78
6:C:1034:ARG:HH21	6:C:2776:ARG:HG3	1.49	0.78
6:C:1458:LEU:O	6:C:1462:GLY:N	2.17	0.78
6:C:1594:SER:HB3	6:C:1683:LYS:HZ2	1.49	0.78
6:C:1702:LEU:O	6:C:1706:SER:N	2.15	0.78
6:C:3495:PHE:CE2	6:C:3499:ILE:HA	2.18	0.78
1:A:522:VAL:HG21	2:B:256:ASN:HB3	1.66	0.77
6:C:628:GLU:HG2	6:C:637:LYS:HD3	1.66	0.77
6:C:1006:THR:HG23	6:C:1009:LEU:HD23	1.63	0.77
6:C:1760:GLU:N	6:C:1893:GLU:O	2.17	0.77
6:C:1987:ARG:O	6:C:1991:PRO:HD3	1.84	0.77
6:C:2886:GLN:HG2	6:C:2921:LEU:HD13	1.66	0.77
6:C:3691:LYS:HB2	6:C:3696:ARG:HH11	1.49	0.77
2:B:454:VAL:HG23	2:B:457:LEU:HD23	1.64	0.77
6:C:883:TYR:O	6:C:887:ASP:N	2.17	0.77
6:C:1575:LEU:HB3	6:C:1632:TRP:CZ3	2.19	0.77
2:B:359:ASN:OD1	2:B:360:GLN:N	2.18	0.77
6:C:2305:ASN:O	6:C:2308:SER:OG	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:981:ARG:NE	6:C:985:GLU:OE2	2.17	0.77
6:C:1387:GLY:HA2	6:C:1391:VAL:HB	1.64	0.77
6:C:1683:LYS:O	6:C:1686:LEU:N	2.18	0.77
6:C:2042:GLN:HE22	6:C:2045:PHE:HB2	1.50	0.77
6:C:3122:HIS:O	6:C:3126:LEU:N	2.17	0.77
6:C:4062:ASP:O	6:C:4066:LEU:HB2	1.85	0.77
4:D:1:DG:H2'	4:D:2:DG:C8	2.18	0.77
5:E:46:DT:H2'	5:E:47:DT:C6	2.20	0.77
6:C:93:LEU:HD11	6:C:137:THR:HA	1.66	0.77
6:C:445:SER:O	6:C:525:LYS:NZ	2.17	0.77
6:C:870:LEU:O	6:C:874:THR:HB	1.85	0.77
6:C:3426:LYS:NZ	6:C:3427:GLU:OE2	2.17	0.77
2:B:301:ASP:HA	6:C:119:ARG:HH21	1.47	0.77
6:C:481:THR:HA	6:C:484:HIS:ND1	1.99	0.77
6:C:723:ASP:HB3	6:C:726:LEU:H	1.49	0.77
6:C:785:MET:O	6:C:788:TYR:N	2.17	0.77
6:C:1093:GLU:N	6:C:1097:GLU:OE2	2.18	0.77
6:C:1693:VAL:HA	6:C:1696:LEU:HG	1.67	0.77
6:C:2118:VAL:HG13	6:C:2122:LEU:HD13	1.65	0.77
6:C:3043:TYR:O	6:C:3046:ARG:HB3	1.83	0.77
1:A:314:SER:N	6:C:203:GLU:OE2	2.17	0.77
6:C:1174:ALA:N	6:C:1267:TYR:OH	2.15	0.77
6:C:3142:ILE:O	6:C:3145:ILE:N	2.17	0.77
6:C:4055:ASN:HD21	6:C:4058:VAL:H	1.33	0.77
4:D:9:DG:H1'	5:E:28:DA:H2	1.50	0.77
6:C:476:ARG:HG3	6:C:477:ASN:H	1.49	0.77
6:C:913:ARG:HH21	6:C:933:LEU:HB3	1.47	0.77
6:C:1217:VAL:O	6:C:1274:ARG:NH1	2.17	0.77
6:C:2070:GLU:OE2	6:C:2072:ARG:NH2	2.18	0.77
6:C:2427:ARG:NH2	6:C:2433:LYS:HA	1.99	0.77
6:C:3593:ARG:HH12	6:C:3667:LEU:HD22	1.48	0.77
6:C:483:VAL:O	6:C:487:LEU:CB	2.32	0.77
1:A:86:VAL:HG22	1:A:104:VAL:HA	1.65	0.77
2:B:44:ARG:HA	2:B:47:PHE:HB2	1.67	0.77
2:B:460:SER:HB2	2:B:525:LYS:HB3	1.67	0.77
6:C:252:VAL:HG21	6:C:268:PRO:HD3	1.67	0.77
6:C:1985:LYS:HZ2	6:C:2036:LEU:HB2	1.50	0.77
1:A:429:PRO:HD2	2:B:354:ARG:HH12	1.49	0.76
6:C:752:LEU:HA	6:C:755:ALA:HB3	1.66	0.76
6:C:767:GLU:HA	6:C:770:LEU:HD22	1.66	0.76
6:C:923:ASP:HA	6:C:927:LYS:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1139:GLU:OE1	6:C:1141:LYS:NZ	2.18	0.76
6:C:1598:ASN:HA	6:C:1601:LEU:HG	1.67	0.76
6:C:2215:LEU:HG	6:C:2219:LEU:HD11	1.66	0.76
1:A:93:ASP:HA	1:A:102:ILE:O	1.84	0.76
2:B:43:GLN:HB3	2:B:47:PHE:CE2	2.19	0.76
2:B:343:LEU:HB2	2:B:392:ILE:HG22	1.67	0.76
6:C:316:LEU:O	6:C:320:LEU:HB2	1.86	0.76
6:C:981:ARG:CZ	6:C:1026:ARG:HH22	1.98	0.76
6:C:1653:LEU:O	6:C:1657:SER:HB3	1.85	0.76
6:C:2117:SER:HB2	6:C:2158:ARG:H	1.49	0.76
6:C:3255:ALA:O	6:C:3258:LEU:N	2.19	0.76
6:C:3287:ARG:NH2	6:C:3327:ASN:O	2.17	0.76
1:A:91:GLU:O	1:A:100:LYS:NZ	2.15	0.76
6:C:1699:PHE:O	6:C:1703:THR:OG1	2.03	0.76
6:C:3535:ILE:O	6:C:3539:SER:N	2.15	0.76
2:B:283:THR:O	2:B:285:LYS:NZ	2.18	0.76
6:C:2991:LYS:O	6:C:2995:GLU:CB	2.33	0.76
6:C:3031:TRP:CZ2	6:C:3038:GLU:HB2	2.20	0.76
6:C:681:LYS:HE2	6:C:744:ASP:HA	1.67	0.76
6:C:1076:LEU:HD22	6:C:1124:ILE:HA	1.67	0.76
6:C:1648:LEU:HG	6:C:1652:ILE:HD11	1.68	0.76
6:C:1861:SER:O	6:C:1865:THR:OG1	2.04	0.76
4:D:11:DC:C2	5:E:25:DG:N2	2.53	0.76
6:C:957:PRO:O	6:C:960:GLN:HB3	1.85	0.76
6:C:1501:PRO:O	6:C:1505:LEU:CB	2.33	0.76
6:C:1807:LYS:O	6:C:1811:ARG:NH2	2.18	0.76
6:C:2406:GLU:O	6:C:2409:THR:OG1	2.02	0.76
6:C:2936:TYR:HE1	6:C:2946:GLU:HA	1.50	0.76
6:C:3457:ASN:OD1	6:C:3458:SER:N	2.19	0.76
6:C:3961:PHE:HE1	6:C:3963:LEU:HB2	1.49	0.76
1:A:171:ASN:HB3	1:A:207:LYS:HD3	1.68	0.76
1:A:316:THR:OG1	2:B:278:VAL:O	2.04	0.76
1:A:319:SER:OG	1:A:326:GLN:OE1	2.03	0.76
2:B:342:VAL:HA	2:B:393:VAL:HG22	1.67	0.76
4:D:-5:DT:H2'	4:D:-4:DA:H8	1.50	0.76
4:D:15:DG:N2	5:E:20:DT:O2	2.16	0.76
6:C:330:ASN:HB2	6:C:334:HIS:HD2	1.50	0.76
6:C:624:ILE:HA	6:C:627:VAL:HB	1.68	0.76
6:C:706:LEU:O	6:C:709:LYS:N	2.19	0.76
6:C:2820:MET:HA	6:C:2823:PHE:CD2	2.20	0.76
6:C:2946:GLU:HG3	6:C:2947:ILE:HG13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3141:PHE:HA	6:C:3144:PHE:CZ	2.20	0.76
6:C:3161:LEU:HD22	6:C:3164:TRP:CE2	2.21	0.76
6:C:3661:ASP:O	6:C:3664:ASN:HB2	1.86	0.76
6:C:3916:TRP:CZ2	6:C:4051:LEU:HG	2.20	0.76
2:B:485:PRO:O	2:B:488:GLN:N	2.18	0.76
6:C:366:TYR:O	6:C:370:ALA:N	2.17	0.76
6:C:628:GLU:HG3	6:C:634:LEU:HD22	1.66	0.76
6:C:995:PHE:HA	6:C:998:ASN:HB2	1.66	0.76
2:B:251:LEU:HD11	2:B:342:VAL:HG23	1.66	0.76
6:C:723:ASP:OD1	6:C:724:GLU:N	2.19	0.76
6:C:788:TYR:O	6:C:792:ILE:N	2.18	0.76
6:C:973:ALA:O	6:C:977:ASP:N	2.18	0.76
6:C:3353:GLU:OE2	6:C:3357:ARG:NH1	2.19	0.76
1:A:182:LYS:HG2	1:A:185:ARG:HH12	1.51	0.76
6:C:727:ALA:O	6:C:730:LEU:N	2.19	0.76
6:C:3440:GLN:O	6:C:3474:ARG:NE	2.19	0.76
6:C:3908:HIS:HA	6:C:3911:ILE:HD12	1.66	0.76
2:B:77:ILE:HG21	2:B:113:VAL:HG21	1.66	0.75
6:C:1639:LEU:O	6:C:1643:MET:CB	2.34	0.75
6:C:2215:LEU:O	6:C:2219:LEU:HG	1.86	0.75
6:C:2330:VAL:HG22	6:C:2335:ASN:HA	1.68	0.75
6:C:3850:HIS:CE1	6:C:3853:GLY:H	2.04	0.75
6:C:3860:LYS:O	6:C:3864:ARG:N	2.18	0.75
1:A:319:SER:HB2	1:A:328:ILE:HD12	1.66	0.75
2:B:292:GLU:HB3	2:B:294:VAL:HG23	1.66	0.75
6:C:259:GLN:O	6:C:263:LYS:HB3	1.86	0.75
6:C:1705:GLY:O	6:C:1711:ARG:NH2	2.18	0.75
6:C:2498:ILE:O	6:C:2501:LEU:N	2.19	0.75
6:C:2898:LEU:HB3	6:C:2902:PRO:HD3	1.67	0.75
6:C:3297:VAL:O	6:C:3301:LEU:CB	2.34	0.75
6:C:3534:ILE:O	6:C:3537:SER:HB2	1.86	0.75
6:C:3836:PRO:HB3	6:C:4127:TRP:CZ3	2.22	0.75
6:C:484:HIS:HE1	6:C:555:SER:HB2	1.50	0.75
6:C:776:TRP:CE2	6:C:780:ILE:HG13	2.21	0.75
6:C:2190:VAL:HA	6:C:2193:ILE:HG12	1.66	0.75
1:A:492:ALA:O	1:A:496:ASP:N	2.19	0.75
2:B:184:ARG:O	2:B:232:ARG:NH2	2.19	0.75
2:B:399:LYS:HG3	4:D:11:DC:H4'	1.67	0.75
6:C:2320:ALA:HB2	6:C:2367:VAL:HA	1.69	0.75
6:C:3095:ASP:HB3	6:C:3098:ARG:CZ	2.16	0.75
6:C:3182:ILE:HG13	6:C:3183:ILE:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:360:SER:O	6:C:363:ILE:HB	1.84	0.75
6:C:751:ALA:O	6:C:755:ALA:CB	2.35	0.75
6:C:1033:ILE:HD13	6:C:1085:ILE:HG23	1.69	0.75
6:C:1039:TRP:CZ2	6:C:1049:GLN:HG2	2.21	0.75
6:C:1952:ILE:HG12	6:C:1953:CYS:H	1.51	0.75
6:C:1985:LYS:HA	6:C:1988:TYR:CE2	2.21	0.75
6:C:2000:ARG:NH1	6:C:2050:GLN:O	2.19	0.75
1:A:254:ARG:NH2	4:D:1:DG:H4'	2.02	0.75
2:B:391:ALA:HB3	2:B:408:ALA:O	1.87	0.75
4:D:5:DT:H2'	4:D:6:DT:H6	1.51	0.75
6:C:620:PHE:C	6:C:659:ARG:HH12	1.90	0.75
6:C:2405:VAL:HA	6:C:2408:MET:HG2	1.69	0.75
6:C:2556:SER:O	6:C:2559:THR:OG1	2.05	0.75
6:C:3293:CYS:HA	6:C:3335:ARG:CZ	2.16	0.75
6:C:3589:SER:OG	6:C:3670:MET:SD	2.44	0.75
6:C:2446:LEU:O	6:C:2451:LEU:HB2	1.86	0.75
6:C:3484:THR:OG1	6:C:3516:HIS:ND1	2.19	0.75
6:C:3805:TRP:NE1	6:C:3807:GLU:OE2	2.18	0.75
1:A:115:ARG:O	1:A:118:GLU:HG2	1.86	0.75
1:A:132:GLN:O	1:A:136:GLY:N	2.20	0.75
6:C:580:ASP:OD2	6:C:593:ASN:ND2	2.20	0.75
6:C:2418:LYS:O	6:C:2421:VAL:HG12	1.87	0.75
6:C:2930:TYR:O	6:C:2933:ILE:N	2.18	0.75
1:A:90:THR:O	1:A:101:ASN:ND2	2.15	0.75
6:C:199:ALA:O	6:C:202:GLY:N	2.20	0.75
6:C:4114:PRO:HA	6:C:4117:LEU:HB2	1.68	0.75
1:A:254:ARG:H	2:B:431:ARG:HH21	1.35	0.74
2:B:448:GLU:O	2:B:451:LEU:N	2.19	0.74
6:C:634:LEU:O	6:C:638:GLN:NE2	2.19	0.74
6:C:885:ALA:HB3	6:C:888:ARG:HA	1.69	0.74
6:C:1026:ARG:NH2	6:C:1027:ASP:OD1	2.20	0.74
6:C:1501:PRO:O	6:C:1505:LEU:HB3	1.87	0.74
2:B:530:LEU:O	2:B:534:LYS:NZ	2.19	0.74
6:C:1602:ASP:HA	6:C:1605:PHE:HB3	1.69	0.74
1:A:301:ARG:O	2:B:292:GLU:N	2.20	0.74
1:A:421:ASP:OD1	1:A:424:LYS:N	2.19	0.74
1:A:471:PHE:HE2	2:B:344:GLY:HA3	1.50	0.74
6:C:1036:PHE:HA	6:C:1039:TRP:HB3	1.68	0.74
6:C:2480:ILE:HG13	6:C:2484:TYR:CE2	2.22	0.74
6:C:3883:LEU:HB3	6:C:3970:LEU:HD22	1.68	0.74
1:A:411:VAL:HG12	1:A:436:PHE:HA	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:36:ARG:O	6:C:40:GLN:N	2.14	0.74
6:C:47:SER:N	6:C:51:LEU:HB2	2.02	0.74
6:C:942:LEU:HA	6:C:945:ALA:HB3	1.69	0.74
1:A:278:GLN:O	1:A:279:LYS:HG2	1.87	0.74
1:A:303:PHE:HA	1:A:310:LEU:HA	1.69	0.74
6:C:1481:THR:O	6:C:1485:SER:OG	2.03	0.74
1:A:362:LEU:HD13	2:B:268:LEU:HA	1.68	0.74
2:B:307:LYS:NZ	2:B:309:ASP:OD2	2.18	0.74
6:C:576:VAL:HG13	6:C:601:TRP:H	1.53	0.74
6:C:1956:PHE:HB3	6:C:1959:LEU:HD23	1.70	0.74
2:B:431:ARG:NH1	2:B:432:GLN:O	2.21	0.74
6:C:566:ASP:HB3	6:C:1799:GLU:HB3	1.70	0.74
6:C:649:PHE:HA	6:C:656:GLN:HE21	1.52	0.74
6:C:703:CYS:O	6:C:707:PHE:HB2	1.87	0.74
6:C:750:PRO:HA	6:C:753:GLN:HB3	1.69	0.74
6:C:870:LEU:O	6:C:874:THR:CB	2.35	0.74
6:C:1029:CYS:HA	6:C:1032:CYS:HB2	1.68	0.74
6:C:2808:LEU:O	6:C:2811:SER:OG	2.04	0.74
6:C:3974:MET:HA	6:C:3975:LYS:HB3	1.70	0.74
1:A:349:GLY:O	1:A:396:ALA:HA	1.88	0.74
2:B:532:LYS:HE2	2:B:537:PHE:HE2	1.52	0.74
6:C:2830:ASN:O	6:C:2833:THR:OG1	2.03	0.74
6:C:3172:LYS:HE3	6:C:3241:LYS:HB3	1.70	0.74
6:C:3325:ASP:HA	6:C:3328:ILE:HD12	1.70	0.74
1:A:419:GLU:H	1:A:426:GLN:HE22	1.36	0.74
1:A:484:GLN:HG3	1:A:487:PHE:CE1	2.23	0.74
6:C:1962:TYR:O	6:C:1966:LEU:N	2.21	0.74
6:C:3298:LEU:HA	6:C:3301:LEU:HB3	1.67	0.74
1:A:481:PRO:O	1:A:484:GLN:N	2.21	0.74
6:C:2323:LEU:O	6:C:2326:ILE:HG22	1.88	0.74
6:C:2954:GLN:O	6:C:2958:LEU:N	2.16	0.74
1:A:330:GLU:N	1:A:333:GLU:OE1	2.19	0.73
5:E:25:DG:H2''	5:E:26:DC:H5'	1.70	0.73
6:C:429:GLU:O	6:C:431:TYR:N	2.20	0.73
6:C:434:VAL:HA	6:C:437:HIS:CE1	2.23	0.73
6:C:2035:THR:OG1	6:C:2036:LEU:N	2.16	0.73
6:C:2472:GLN:NE2	6:C:2476:ILE:HG23	2.03	0.73
6:C:2962:ARG:NH1	6:C:3008:TRP:HB3	2.03	0.73
6:C:3309:GLU:HA	6:C:3312:VAL:HG13	1.69	0.73
6:C:3480:LEU:HD22	6:C:3516:HIS:HB2	1.67	0.73
1:A:449:THR:HG22	1:A:450:GLU:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:345:PHE:HZ	6:C:364:ARG:HA	1.53	0.73
6:C:407:VAL:O	6:C:410:MET:N	2.20	0.73
6:C:2371:PHE:HE2	6:C:2378:PHE:CE2	2.06	0.73
6:C:2886:GLN:HB3	6:C:2887:PRO:HD3	1.67	0.73
6:C:2886:GLN:NE2	6:C:2925:GLU:HG2	2.03	0.73
4:D:-4:DA:H3'	4:D:-3:DT:H71	1.71	0.73
6:C:731:THR:O	6:C:734:LEU:N	2.20	0.73
6:C:1379:PRO:HA	6:C:1384:PHE:HB2	1.70	0.73
6:C:1925:GLU:OE2	6:C:1963:GLN:NE2	2.21	0.73
6:C:2304:VAL:O	6:C:2348:GLN:NE2	2.19	0.73
6:C:3304:VAL:HG13	6:C:3305:SER:H	1.53	0.73
6:C:723:ASP:N	6:C:727:ALA:H	1.86	0.73
6:C:1097:GLU:HB3	6:C:1101:PHE:CZ	2.24	0.73
6:C:1678:LEU:O	6:C:1682:THR:OG1	2.04	0.73
6:C:1865:THR:O	6:C:1869:LYS:HG2	1.87	0.73
6:C:3256:MET:SD	6:C:3282:ARG:NH1	2.61	0.73
6:C:3259:LEU:HD22	6:C:3282:ARG:HH11	1.52	0.73
6:C:85:ILE:O	6:C:88:PHE:N	2.21	0.73
6:C:365:GLY:HA2	6:C:368:LEU:HB2	1.69	0.73
6:C:468:LEU:HA	6:C:471:LYS:HE3	1.68	0.73
6:C:789:TYR:HA	6:C:792:ILE:HB	1.71	0.73
6:C:1890:HIS:NE2	6:C:1940:TYR:HB2	2.04	0.73
6:C:1938:ARG:HD2	6:C:1986:ARG:CB	2.17	0.73
6:C:2500:LYS:O	6:C:2503:LYS:N	2.21	0.73
1:A:289:TYR:HA	2:B:310:ILE:HB	1.70	0.73
1:A:392:LYS:NZ	2:B:462:SER:OG	2.21	0.73
6:C:663:ILE:HB	6:C:667:TYR:CE2	2.24	0.73
6:C:1597:LEU:O	6:C:1600:MET:HB2	1.88	0.73
6:C:2028:LEU:O	6:C:2034:SER:OG	2.07	0.73
6:C:2866:ALA:HB1	6:C:2897:LEU:HA	1.69	0.73
6:C:3312:VAL:HB	6:C:3315:TYR:CG	2.24	0.73
1:A:360:HIS:HA	2:B:267:ILE:HG13	1.70	0.73
2:B:250:ARG:HA	2:B:259:ILE:O	1.89	0.73
2:B:494:LEU:O	2:B:498:ALA:CB	2.37	0.73
6:C:287:LEU:HA	6:C:290:TYR:HB3	1.70	0.73
6:C:1640:GLU:O	6:C:1644:ALA:CB	2.34	0.73
6:C:2796:ALA:O	6:C:2800:ARG:N	2.21	0.73
6:C:3112:GLN:HE21	6:C:3116:SER:HB3	1.53	0.73
6:C:3976:GLU:HA	6:C:3979:LEU:HB2	1.71	0.73
1:A:301:ARG:H	2:B:292:GLU:HB2	1.53	0.73
2:B:13:CYS:HB3	2:B:134:ILE:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:15:DG:N1	5:E:20:DT:OP2	2.20	0.73
6:C:707:PHE:HA	6:C:710:PHE:HE2	1.53	0.73
6:C:955:ALA:O	6:C:958:MET:N	2.21	0.73
6:C:1425:ALA:O	6:C:1429:GLU:HB2	1.89	0.73
6:C:1598:ASN:HD22	6:C:1601:LEU:HD11	1.53	0.73
6:C:2010:GLU:HG2	6:C:2011:ALA:H	1.54	0.73
6:C:2888:VAL:O	6:C:2891:ARG:CB	2.37	0.73
6:C:3681:LYS:HA	6:C:3684:SER:HB2	1.71	0.73
1:A:88:TYR:HA	1:A:102:ILE:HA	1.69	0.73
6:C:1476:HIS:ND1	6:C:1507:CYS:O	2.21	0.73
6:C:1957:ASN:H	6:C:1960:LYS:HE3	1.54	0.73
6:C:4055:ASN:ND2	6:C:4058:VAL:H	1.86	0.73
1:A:43:ASP:HA	1:A:88:TYR:CE2	2.24	0.73
1:A:133:ASP:OD1	1:A:134:MET:N	2.21	0.73
1:A:350:PHE:HB2	2:B:462:SER:HA	1.71	0.73
1:A:445:LYS:HE2	2:B:243:HIS:HA	1.71	0.73
2:B:314:PHE:HB2	2:B:321:VAL:HB	1.71	0.73
6:C:461:ILE:O	6:C:464:VAL:HG12	1.88	0.73
6:C:669:LEU:HB3	6:C:672:ILE:HG12	1.70	0.73
6:C:963:LYS:HD3	6:C:1009:LEU:HB2	1.71	0.73
6:C:1036:PHE:O	6:C:1040:SER:N	2.17	0.73
6:C:2018:ASP:HA	6:C:2044:ASP:HB3	1.71	0.73
6:C:2187:VAL:O	6:C:2191:ALA:CB	2.37	0.73
6:C:3571:PHE:HZ	6:C:3690:PHE:H	1.34	0.73
6:C:3815:LEU:HD23	6:C:3818:ASN:HD21	1.54	0.73
1:A:447:PRO:HG3	2:B:243:HIS:HB3	1.71	0.72
6:C:413:PHE:O	6:C:416:SER:OG	2.07	0.72
6:C:964:ARG:NH2	6:C:971:ARG:HH22	1.87	0.72
6:C:1875:LYS:HD2	6:C:1903:SER:HA	1.71	0.72
6:C:2928:LYS:HD2	6:C:2931:ARG:HH22	1.54	0.72
6:C:3660:ASN:O	6:C:3664:ASN:ND2	2.22	0.72
6:C:3765:GLU:HA	6:C:3768:PHE:CD2	2.24	0.72
1:A:89:GLY:N	1:A:101:ASN:O	2.22	0.72
4:D:4:DA:H2'	4:D:5:DT:H71	1.70	0.72
6:C:439:VAL:O	6:C:442:GLN:HB3	1.88	0.72
6:C:2180:GLU:OE1	6:C:2184:TYR:OH	2.03	0.72
6:C:3425:ARG:NH2	6:C:4003:ASP:OD2	2.21	0.72
4:D:10:DG:O6	5:E:26:DC:N4	2.22	0.72
6:C:126:PRO:O	6:C:129:ASP:N	2.22	0.72
6:C:2080:VAL:HG23	6:C:2081:LEU:HG	1.71	0.72
6:C:2245:TRP:HB2	6:C:2246:LYS:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2452:ARG:NH2	6:C:2494:ASP:O	2.22	0.72
6:C:2970:LYS:O	6:C:2974:GLU:CB	2.37	0.72
6:C:3428:GLU:OE1	6:C:4049:ARG:NH2	2.22	0.72
6:C:3471:ILE:HG23	6:C:3472:ILE:HG12	1.70	0.72
6:C:3590:ASN:O	6:C:3594:ALA:HB2	1.89	0.72
6:C:1063:LEU:O	6:C:1067:ALA:HB2	1.90	0.72
6:C:1758:LEU:HD13	6:C:1761:LEU:HD23	1.71	0.72
6:C:3276:TRP:CZ3	6:C:3303:THR:HB	2.23	0.72
1:A:75:ILE:O	1:A:78:SER:OG	2.05	0.72
1:A:101:ASN:ND2	1:A:139:SER:HG	1.86	0.72
4:D:-6:DT:H2'	4:D:-5:DT:C6	2.25	0.72
6:C:313:LEU:HA	6:C:316:LEU:HD23	1.72	0.72
6:C:1857:LYS:O	6:C:1861:SER:N	2.22	0.72
6:C:1934:LEU:HG	6:C:1937:ARG:HB2	1.70	0.72
6:C:2361:ILE:HA	6:C:2364:LEU:HD12	1.71	0.72
6:C:2890:ILE:HG13	6:C:2921:LEU:HD21	1.71	0.72
6:C:2894:GLU:HA	6:C:2898:LEU:HD22	1.72	0.72
1:A:320:GLN:HA	2:B:274:LYS:HD2	1.70	0.72
6:C:1458:LEU:HD13	6:C:1464:LEU:HA	1.71	0.72
6:C:1638:PRO:O	6:C:1642:LYS:NZ	2.20	0.72
6:C:2028:LEU:HD13	6:C:2033:ASP:HB3	1.70	0.72
6:C:2032:ALA:O	6:C:2036:LEU:N	2.22	0.72
6:C:2245:TRP:HB2	6:C:2246:LYS:HZ3	1.53	0.72
6:C:3977:THR:O	6:C:3981:TYR:CB	2.38	0.72
6:C:4084:SER:O	6:C:4088:ASN:N	2.21	0.72
1:A:95:ASN:OD1	1:A:98:ASN:N	2.14	0.72
1:A:143:LEU:HG	1:A:185:ARG:HH21	1.53	0.72
1:A:166:ILE:HG22	1:A:200:LEU:HD12	1.71	0.72
2:B:249:CYS:HB2	2:B:338:LYS:HD2	1.72	0.72
6:C:532:ARG:HA	6:C:535:LEU:HD12	1.71	0.72
6:C:625:ASN:HB3	6:C:659:ARG:HH21	1.55	0.72
6:C:1260:LEU:O	6:C:1264:LEU:CB	2.36	0.72
6:C:1412:LYS:O	6:C:1415:LEU:HB2	1.90	0.72
6:C:1688:LEU:O	6:C:1692:ALA:CB	2.38	0.72
6:C:1941:HIS:O	6:C:1945:TYR:HB2	1.90	0.72
2:B:89:ASP:OD1	2:B:90:LEU:N	2.23	0.72
6:C:66:LEU:HD12	6:C:69:VAL:HB	1.72	0.72
6:C:1125:GLN:HA	6:C:1128:CYS:HB3	1.71	0.72
6:C:1721:HIS:O	6:C:1725:GLN:HB2	1.89	0.72
6:C:2803:ILE:HG23	6:C:2804:ILE:H	1.55	0.72
6:C:3625:LEU:O	6:C:3629:ARG:N	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3737:ARG:NH1	6:C:3807:GLU:OE2	2.22	0.72
2:B:457:LEU:HB2	2:B:529:PRO:HB3	1.72	0.72
6:C:464:VAL:O	6:C:468:LEU:HG	1.88	0.72
6:C:1958:GLU:O	6:C:1962:TYR:N	2.15	0.72
6:C:432:THR:HG23	6:C:475:LEU:HD22	1.70	0.71
6:C:979:VAL:O	6:C:983:LEU:CB	2.37	0.71
6:C:1416:GLU:O	6:C:1420:ARG:N	2.23	0.71
6:C:1634:ALA:O	6:C:1637:SER:N	2.19	0.71
6:C:1941:HIS:O	6:C:1945:TYR:CB	2.38	0.71
6:C:2404:ARG:O	6:C:2407:GLY:N	2.22	0.71
6:C:2543:ASN:HA	6:C:2546:TYR:CD2	2.25	0.71
6:C:3645:GLY:O	6:C:3649:SER:OG	2.05	0.71
1:A:275:ASN:ND2	4:D:2:DG:OP1	2.24	0.71
6:C:701:TYR:HA	6:C:704:PHE:CD2	2.25	0.71
6:C:1075:ARG:O	6:C:1079:SER:N	2.21	0.71
6:C:1557:GLU:HB3	6:C:1562:LEU:HB3	1.72	0.71
6:C:3019:ILE:HD11	6:C:3027:LEU:HB3	1.72	0.71
6:C:3276:TRP:HB3	6:C:3280:TYR:CZ	2.25	0.71
6:C:3471:ILE:HG12	6:C:3472:ILE:HG23	1.71	0.71
6:C:3603:LYS:O	6:C:3607:GLU:CB	2.37	0.71
1:A:148:TRP:HA	1:A:151:ALA:HB3	1.73	0.71
1:A:485:GLN:NE2	2:B:333:TYR:O	2.15	0.71
6:C:118:ASP:OD2	6:C:122:LYS:NZ	2.23	0.71
6:C:1999:GLU:OE1	6:C:2001:LYS:NZ	2.22	0.71
6:C:2286:PRO:HD3	6:C:2329:TYR:CE1	2.26	0.71
6:C:2901:LEU:HG	6:C:2910:VAL:HG21	1.72	0.71
6:C:3083:SER:OG	6:C:3085:GLU:OE1	2.04	0.71
6:C:865:GLN:O	6:C:868:LYS:NZ	2.23	0.71
6:C:887:ASP:HB3	6:C:3889:ARG:HH21	1.55	0.71
6:C:1328:GLU:O	6:C:1332:TYR:HB3	1.91	0.71
6:C:1978:PHE:O	6:C:1982:ILE:N	2.23	0.71
6:C:3901:ARG:HA	6:C:3904:PHE:HB3	1.72	0.71
6:C:4102:THR:O	6:C:4105:LYS:N	2.24	0.71
1:A:466:VAL:O	1:A:470:ARG:N	2.22	0.71
6:C:407:VAL:HG23	6:C:408:TYR:H	1.54	0.71
6:C:723:ASP:O	6:C:727:ALA:N	2.22	0.71
6:C:2575:PRO:HA	6:C:2789:SER:HB3	1.73	0.71
6:C:2851:PHE:O	6:C:2854:PHE:N	2.23	0.71
6:C:3095:ASP:OD2	6:C:3098:ARG:HG3	1.91	0.71
6:C:3144:PHE:O	6:C:3148:GLN:CB	2.33	0.71
6:C:3167:ARG:HA	6:C:3186:ARG:NH2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3589:SER:O	6:C:3593:ARG:CB	2.38	0.71
6:C:3824:GLU:OE2	6:C:3825:LYS:NZ	2.23	0.71
1:A:465:ILE:HG13	1:A:525:PHE:CZ	2.25	0.71
6:C:862:LEU:HA	6:C:3169:PRO:HB2	1.73	0.71
6:C:1083:ASN:HA	6:C:1086:TYR:CD2	2.25	0.71
6:C:3167:ARG:HH22	6:C:3190:LEU:HD11	1.55	0.71
6:C:4080:VAL:HG12	6:C:4115:ASN:ND2	2.04	0.71
1:A:58:THR:HG23	1:A:61:ASP:H	1.55	0.71
1:A:303:PHE:HD2	2:B:292:GLU:HG2	1.54	0.71
1:A:399:ARG:NH1	2:B:516:LEU:O	2.24	0.71
1:A:420:LEU:HB3	1:A:424:LYS:HG3	1.71	0.71
2:B:533:ILE:HA	2:B:537:PHE:HD2	1.56	0.71
6:C:1163:LEU:H	6:C:1257:LEU:HD21	1.54	0.71
6:C:2157:PHE:HA	6:C:2160:TYR:CD2	2.26	0.71
6:C:2319:ALA:O	6:C:2322:VAL:HB	1.91	0.71
6:C:3296:GLN:HE21	6:C:3300:VAL:HG22	1.56	0.71
6:C:3901:ARG:HH22	6:C:3972:LEU:HG	1.55	0.71
6:C:4050:LYS:O	6:C:4053:GLY:N	2.23	0.71
1:A:388:LYS:NZ	2:B:448:GLU:OE2	2.24	0.71
6:C:532:ARG:O	6:C:536:SER:N	2.16	0.71
6:C:1458:LEU:HB3	6:C:1464:LEU:HB3	1.73	0.71
6:C:2842:ARG:O	6:C:2845:ASN:N	2.23	0.71
6:C:3009:LYS:NZ	6:C:3012:GLU:OE1	2.14	0.71
6:C:3176:MET:HA	6:C:3179:TRP:HB3	1.73	0.71
6:C:3644:PHE:CZ	6:C:3670:MET:HA	2.26	0.71
6:C:3820:MET:O	6:C:3824:GLU:N	2.19	0.71
1:A:116:ILE:HD13	1:A:494:ALA:HB1	1.73	0.71
6:C:540:MET:HG3	6:C:541:MET:HG2	1.72	0.71
6:C:2813:PHE:HB3	6:C:2817:LEU:HD12	1.71	0.71
6:C:3004:HIS:HA	6:C:3011:LEU:HD13	1.73	0.71
6:C:3125:ARG:O	6:C:3128:LYS:N	2.23	0.71
6:C:3312:VAL:HG23	6:C:3314:SER:H	1.54	0.71
6:C:3328:ILE:O	6:C:3331:GLY:N	2.24	0.71
6:C:3487:ILE:HG13	6:C:3495:PHE:HB2	1.71	0.71
6:C:3840:LYS:HA	6:C:3843:LEU:HD12	1.72	0.71
6:C:39:GLY:O	6:C:42:CYS:CB	2.38	0.70
6:C:1023:SER:O	6:C:1026:ARG:HB3	1.90	0.70
6:C:1921:ASP:O	6:C:1925:GLU:CB	2.33	0.70
6:C:2139:PRO:HA	6:C:2142:ILE:HB	1.73	0.70
6:C:2911:ARG:HB3	6:C:2913:LYS:HG2	1.73	0.70
6:C:4125:GLU:HA	6:C:4127:TRP:CD1	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:ILE:HA	1:A:368:VAL:HG22	1.73	0.70
1:A:304:ASN:ND2	1:A:307:THR:OG1	2.23	0.70
2:B:34:ALA:O	2:B:38:ILE:HB	1.91	0.70
6:C:785:MET:HA	6:C:788:TYR:HD2	1.56	0.70
6:C:925:GLN:HG3	6:C:926:THR:HG23	1.73	0.70
6:C:1115:HIS:O	6:C:1117:ASP:N	2.24	0.70
6:C:1253:THR:HA	6:C:1257:LEU:HB2	1.73	0.70
6:C:2319:ALA:O	6:C:2323:LEU:N	2.20	0.70
6:C:3117:ILE:HG12	6:C:3125:ARG:HH22	1.55	0.70
6:C:713:GLU:O	6:C:717:LYS:CB	2.39	0.70
6:C:774:GLU:O	6:C:778:ILE:HG13	1.91	0.70
6:C:1033:ILE:HA	6:C:1036:PHE:CD2	2.26	0.70
6:C:3387:GLU:O	6:C:3391:ALA:HB2	1.91	0.70
6:C:243:GLN:OE1	6:C:243:GLN:N	2.23	0.70
6:C:703:CYS:O	6:C:707:PHE:CB	2.40	0.70
6:C:1329:ARG:O	6:C:1333:SER:HB3	1.91	0.70
6:C:1582:LEU:HD22	6:C:1639:LEU:HD13	1.74	0.70
6:C:1601:LEU:O	6:C:1604:SER:OG	2.08	0.70
6:C:2132:LYS:HB3	6:C:2133:LEU:HG	1.72	0.70
6:C:3425:ARG:NH1	6:C:3428:GLU:OE2	2.25	0.70
6:C:3681:LYS:HZ1	6:C:3725:ARG:HA	1.56	0.70
1:A:142:SER:OG	1:A:185:ARG:NH2	2.24	0.70
1:A:143:LEU:HG	1:A:185:ARG:NH2	2.07	0.70
2:B:187:GLY:N	2:B:232:ARG:HG2	2.07	0.70
6:C:1480:GLY:O	6:C:1484:LEU:HB3	1.91	0.70
6:C:3172:LYS:NZ	6:C:3241:LYS:HE2	2.07	0.70
6:C:3272:TRP:O	6:C:3275:SER:N	2.23	0.70
6:C:3886:ALA:HA	6:C:3889:ARG:HG2	1.73	0.70
2:B:496:HIS:HE1	2:B:503:GLU:HG3	1.56	0.70
6:C:978:GLN:NE2	6:C:982:GLN:OE1	2.24	0.70
6:C:1594:SER:O	6:C:1598:ASN:N	2.22	0.70
6:C:1966:LEU:O	6:C:1969:GLU:HB3	1.92	0.70
6:C:2539:LEU:HA	6:C:2542:LEU:HD22	1.71	0.70
6:C:3011:LEU:HD21	6:C:3046:ARG:HG3	1.73	0.70
6:C:461:ILE:O	6:C:464:VAL:N	2.24	0.70
6:C:786:GLN:O	6:C:789:TYR:HE2	1.74	0.70
6:C:887:ASP:O	6:C:3889:ARG:NE	2.25	0.70
6:C:3313:SER:H	6:C:3315:TYR:HB2	1.56	0.70
6:C:3543:LYS:HZ3	6:C:3545:THR:HA	1.57	0.70
6:C:3590:ASN:OD1	6:C:3593:ARG:NH2	2.25	0.70
6:C:4101:GLU:O	6:C:4105:LYS:HG3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:ARG:O	2:B:433:TYR:OH	2.04	0.70
1:A:410:PHE:HB2	1:A:439:PHE:HZ	1.56	0.70
1:A:479:GLU:HA	2:B:426:PHE:HB3	1.71	0.70
4:D:-3:DT:H2'	4:D:-2:DT:C6	2.27	0.70
6:C:913:ARG:O	6:C:917:LEU:HG	1.91	0.70
6:C:1273:GLU:O	6:C:1276:VAL:N	2.20	0.70
6:C:1503:LEU:O	6:C:1507:CYS:CB	2.39	0.70
6:C:2410:GLU:HG3	6:C:2411:LEU:HB2	1.73	0.70
6:C:3480:LEU:HA	6:C:3516:HIS:ND1	2.06	0.70
1:A:418:GLU:HB2	1:A:430:PRO:HB3	1.73	0.70
6:C:166:ILE:HD13	6:C:173:LYS:HE3	1.74	0.70
6:C:590:GLU:OE2	6:C:1088:GLU:N	2.25	0.70
6:C:1080:LEU:HD12	6:C:1081:ALA:H	1.56	0.70
6:C:1266:CYS:HA	6:C:1347:THR:HG21	1.74	0.70
6:C:2352:HIS:ND1	6:C:2364:LEU:HD21	2.07	0.70
6:C:2435:CYS:SG	6:C:2436:LEU:N	2.65	0.70
6:C:2550:ILE:HA	6:C:2847:THR:HG22	1.73	0.70
6:C:3888:VAL:O	6:C:3891:SER:N	2.25	0.70
1:A:88:TYR:O	1:A:90:THR:OG1	2.10	0.70
2:B:497:ARG:NH2	2:B:504:PRO:O	2.22	0.70
6:C:55:THR:HA	6:C:58:VAL:HB	1.72	0.70
6:C:416:SER:OG	6:C:417:VAL:N	2.23	0.70
6:C:678:LYS:O	6:C:682:TYR:N	2.24	0.70
6:C:1372:LEU:HD22	6:C:1402:LEU:HD23	1.74	0.70
6:C:1471:GLN:HB3	6:C:1475:LEU:HD22	1.74	0.70
6:C:2433:LYS:HD3	6:C:2461:PHE:CD1	2.27	0.70
6:C:3056:GLU:HG2	6:C:3092:LEU:HB3	1.74	0.70
6:C:3281:CYS:SG	6:C:3285:HIS:NE2	2.65	0.70
2:B:185:LEU:HG	2:B:231:LEU:HD12	1.74	0.69
2:B:397:TYR:OH	5:E:28:DA:OP1	2.10	0.69
2:B:412:ILE:HA	2:B:417:GLU:HG2	1.73	0.69
2:B:523:THR:O	2:B:526:SER:OG	2.07	0.69
6:C:2442:MET:CB	6:C:2445:LYS:HB2	2.13	0.69
6:C:3095:ASP:OD2	6:C:3099:ALA:N	2.25	0.69
1:A:335:GLU:O	1:A:339:ARG:NH1	2.25	0.69
6:C:1756:PRO:HD2	6:C:1863:PHE:HB2	1.74	0.69
6:C:2072:ARG:HH12	6:C:2128:PHE:HZ	1.39	0.69
6:C:2238:ILE:O	6:C:2241:LEU:N	2.25	0.69
6:C:2302:ALA:O	6:C:2306:ASN:HB2	1.92	0.69
6:C:2365:ASN:O	6:C:2368:THR:N	2.25	0.69
6:C:2958:LEU:HA	6:C:3989:ARG:HH12	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:SER:O	1:A:73:SER:HB3	1.91	0.69
2:B:362:LEU:HD12	2:B:421:TYR:HB3	1.74	0.69
6:C:400:THR:HB	6:C:1817:GLN:NE2	2.07	0.69
6:C:538:ASP:HB2	6:C:539:GLN:NE2	2.07	0.69
6:C:914:VAL:O	6:C:917:LEU:N	2.24	0.69
6:C:3247:ARG:HB2	6:C:3278:GLN:HE22	1.57	0.69
2:B:247:TRP:HB3	2:B:263:ALA:HB3	1.73	0.69
6:C:223:CYS:O	6:C:227:LEU:HB2	1.92	0.69
6:C:352:VAL:N	6:C:357:LYS:HZ2	1.90	0.69
6:C:2002:LYS:H	6:C:2005:ILE:HG23	1.58	0.69
6:C:2412:TYR:OH	6:C:2419:ASP:OD2	2.09	0.69
6:C:2891:ARG:HH22	6:C:3897:PHE:HB3	1.57	0.69
6:C:3780:ALA:HB1	6:C:3784:ARG:HH12	1.57	0.69
6:C:2349:LEU:HG	6:C:2364:LEU:HD13	1.74	0.69
6:C:3694:PHE:HB2	6:C:3697:ASN:HA	1.74	0.69
1:A:132:GLN:HB3	1:A:137:HIS:CG	2.28	0.69
6:C:400:THR:HB	6:C:1817:GLN:HE22	1.56	0.69
6:C:997:ASN:O	6:C:1042:LYS:NZ	2.25	0.69
6:C:2336:ILE:HG13	6:C:2337:LEU:HG	1.74	0.69
6:C:3792:SER:HB2	6:C:3804:GLU:HB2	1.74	0.69
1:A:261:LEU:HD12	1:A:345:LEU:HB3	1.74	0.69
1:A:289:TYR:CD1	2:B:310:ILE:HG22	2.24	0.69
6:C:850:GLU:HB3	6:C:854:ARG:HH22	1.58	0.69
6:C:1024:THR:O	6:C:1027:ASP:HB2	1.92	0.69
6:C:1516:GLU:O	6:C:1520:ALA:CB	2.40	0.69
6:C:2912:GLY:O	6:C:2916:LEU:CB	2.38	0.69
6:C:3003:ASN:O	6:C:3007:GLU:N	2.25	0.69
6:C:3485:LYS:O	6:C:3489:SER:CB	2.40	0.69
1:A:382:PHE:HA	1:A:385:LEU:HD12	1.73	0.69
1:A:428:THR:HA	2:B:354:ARG:HH12	1.57	0.69
2:B:142:PHE:HE2	2:B:200:GLN:HE21	1.38	0.69
6:C:197:PHE:HA	6:C:200:PHE:HD2	1.58	0.69
6:C:321:LYS:O	6:C:324:SER:N	2.26	0.69
6:C:632:GLU:HG3	6:C:633:ILE:HG23	1.72	0.69
6:C:674:VAL:HG22	6:C:740:ILE:O	1.93	0.69
6:C:751:ALA:O	6:C:755:ALA:HB2	1.93	0.69
6:C:1016:GLY:O	6:C:1022:ASP:HA	1.93	0.69
6:C:1268:ASN:HD22	6:C:1279:LEU:HD11	1.57	0.69
6:C:1493:PRO:O	6:C:1497:ARG:N	2.24	0.69
6:C:2322:VAL:O	6:C:2326:ILE:N	2.26	0.69
6:C:2379:MET:HA	6:C:2382:VAL:HG22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2462:VAL:HG11	6:C:2473:MET:HE1	1.72	0.69
6:C:2476:ILE:HG22	6:C:2479:TRP:CD2	2.28	0.69
6:C:4009:PRO:HB2	6:C:4012:ASP:H	1.58	0.69
1:A:458:GLN:HG3	1:A:528:LEU:HD13	1.75	0.69
2:B:268:LEU:HD12	2:B:269:GLN:H	1.58	0.69
6:C:1080:LEU:HD12	6:C:1081:ALA:N	2.08	0.69
6:C:1593:VAL:O	6:C:1597:LEU:N	2.17	0.69
6:C:2386:LEU:HB3	6:C:2387:PRO:HD3	1.74	0.69
6:C:3190:LEU:HG	6:C:3231:ILE:HD11	1.75	0.69
6:C:3320:ILE:O	6:C:3324:ARG:HG2	1.93	0.69
6:C:367:GLY:HA2	6:C:370:ALA:HB3	1.75	0.69
6:C:393:LYS:O	6:C:396:PHE:N	2.26	0.69
6:C:568:PHE:CD1	6:C:610:ALA:HA	2.28	0.69
6:C:734:LEU:HA	6:C:737:PRO:HG2	1.75	0.69
6:C:797:ASP:CB	6:C:870:LEU:H	2.06	0.69
6:C:1493:PRO:HB2	6:C:1495:ASP:HB2	1.74	0.69
6:C:1992:VAL:HA	6:C:1995:GLU:HB3	1.75	0.69
6:C:2808:LEU:HB2	6:C:2809:PHE:CD1	2.27	0.69
6:C:658:THR:HA	6:C:733:LEU:HD22	1.74	0.68
6:C:2068:ARG:NH2	6:C:2128:PHE:O	2.26	0.68
6:C:2152:ASN:O	6:C:2155:GLU:HB2	1.93	0.68
6:C:2382:VAL:O	6:C:2404:ARG:NH1	2.26	0.68
6:C:3156:PRO:HA	6:C:3160:LEU:H	1.56	0.68
6:C:3524:ASN:HA	6:C:3527:GLN:HB2	1.74	0.68
6:C:4002:MET:HA	6:C:4005:PHE:HB3	1.75	0.68
1:A:368:VAL:H	1:A:434:LEU:HD11	1.57	0.68
4:D:-14:DA:H61	5:E:51:DA:H2	1.40	0.68
5:E:50:DT:H2"	5:E:51:DA:C8	2.28	0.68
6:C:616:LYS:HB3	6:C:617:PRO:HD3	1.74	0.68
6:C:796:LEU:O	6:C:800:LEU:N	2.26	0.68
6:C:1141:LYS:HG3	6:C:1179:PRO:HB3	1.75	0.68
6:C:1903:SER:O	6:C:1906:THR:OG1	2.10	0.68
6:C:2037:SER:O	6:C:2041:SER:HB3	1.93	0.68
6:C:2307:MET:HA	6:C:2315:VAL:HB	1.74	0.68
6:C:3475:TYR:HB3	6:C:3478:GLU:HB3	1.75	0.68
6:C:3558:ILE:HA	6:C:3561:LYS:HD3	1.75	0.68
1:A:419:GLU:O	1:A:426:GLN:NE2	2.27	0.68
2:B:368:ARG:HB2	2:B:371:GLU:HG3	1.73	0.68
6:C:158:GLY:O	6:C:162:LEU:HB2	1.92	0.68
6:C:220:LEU:HD13	6:C:248:ILE:HG23	1.76	0.68
6:C:2537:ASP:O	6:C:2540:LEU:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3107:ILE:HA	6:C:3110:PHE:CE2	2.28	0.68
6:C:3521:ILE:HG12	6:C:3525:TYR:CE2	2.29	0.68
6:C:3630:ARG:H	6:C:3633:ILE:HD12	1.58	0.68
1:A:396:ALA:O	1:A:413:LEU:HB2	1.94	0.68
6:C:716:VAL:O	6:C:719:LYS:N	2.26	0.68
6:C:901:MET:HG3	6:C:903:PRO:HD3	1.75	0.68
6:C:1681:ASP:OD1	6:C:1682:THR:N	2.26	0.68
6:C:2270:ASN:OD1	6:C:2271:SER:N	2.26	0.68
1:A:414:VAL:HG23	1:A:435:VAL:HG21	1.76	0.68
2:B:247:TRP:HE1	2:B:398:ASP:H	1.41	0.68
2:B:264:TYR:CB	2:B:363:LYS:O	2.34	0.68
2:B:402:ASN:ND2	5:E:29:DT:O3'	2.27	0.68
6:C:2025:MET:HB3	6:C:2028:LEU:HD12	1.75	0.68
6:C:3118:ASP:OD1	6:C:3119:VAL:N	2.25	0.68
6:C:90:CYS:SG	6:C:136:GLN:NE2	2.65	0.68
6:C:1453:SER:HA	6:C:1456:LYS:HE2	1.76	0.68
6:C:3024:PRO:HA	6:C:3027:LEU:HB2	1.75	0.68
6:C:3759:ARG:HD3	6:C:4011:PHE:HE2	1.57	0.68
1:A:243:LEU:O	1:A:247:ARG:NH1	2.27	0.68
6:C:553:VAL:O	6:C:556:SER:OG	2.06	0.68
6:C:850:GLU:O	6:C:853:ILE:HB	1.93	0.68
6:C:1979:GLU:HA	6:C:1982:ILE:HB	1.75	0.68
6:C:2398:LEU:HB2	6:C:2432:GLN:HG2	1.73	0.68
6:C:3179:TRP:HE1	6:C:3245:SER:HB3	1.59	0.68
1:A:74:LYS:HG3	1:A:83:LEU:HD11	1.76	0.68
1:A:290:ARG:NH2	2:B:307:LYS:O	2.25	0.68
2:B:400:ARG:HD2	4:D:9:DG:H2'	1.75	0.68
6:C:339:GLN:HA	6:C:342:MET:HB2	1.75	0.68
6:C:2887:PRO:HB3	6:C:2922:ARG:HH11	1.59	0.68
6:C:3277:VAL:HA	6:C:3280:TYR:CD2	2.28	0.68
6:C:3348:LEU:O	6:C:3351:ILE:N	2.27	0.68
6:C:3413:TYR:HB3	6:C:3449:LYS:HG2	1.76	0.68
1:A:416:GLN:OE1	1:A:417:GLU:N	2.27	0.68
5:E:47:DT:C6	5:E:48:DT:H72	2.28	0.68
6:C:462:VAL:HA	6:C:465:PHE:CD2	2.26	0.68
6:C:1724:MET:O	6:C:1727:ARG:N	2.27	0.68
6:C:1808:ASP:HB2	6:C:1812:LEU:HD12	1.76	0.68
6:C:2242:VAL:HA	6:C:2245:TRP:CD1	2.29	0.68
6:C:2314:GLU:HA	6:C:2316:TYR:HE2	1.59	0.68
6:C:3751:LEU:HG	6:C:3752:VAL:H	1.57	0.68
1:A:71:TYR:HA	1:A:83:LEU:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ASP:OD2	1:A:115:ARG:NH2	2.27	0.68
1:A:350:PHE:H	2:B:463:LEU:HG	1.59	0.68
4:D:-4:DA:O3'	6:C:169:THR:HG21	1.94	0.68
6:C:938:VAL:O	6:C:941:MET:HG2	1.94	0.68
6:C:1637:SER:HB2	6:C:1638:PRO:HD3	1.76	0.68
6:C:2462:VAL:O	6:C:2470:ARG:NE	2.27	0.68
6:C:3480:LEU:HA	6:C:3516:HIS:HD1	1.59	0.68
6:C:3880:ALA:HB1	6:C:3884:LYS:HZ1	1.59	0.68
6:C:108:LYS:HB3	6:C:153:PHE:CE2	2.22	0.67
6:C:770:LEU:HA	6:C:773:LEU:HG	1.76	0.67
6:C:1006:THR:O	6:C:1009:LEU:HB3	1.94	0.67
6:C:1148:ALA:O	6:C:1151:ARG:N	2.27	0.67
6:C:3001:CYS:HA	6:C:3004:HIS:HB3	1.77	0.67
6:C:3498:TRP:HB2	6:C:3501:HIS:CD2	2.29	0.67
6:C:4038:TRP:CZ3	6:C:4040:PRO:HG3	2.29	0.67
2:B:369:ASP:H	2:B:371:GLU:HG3	1.58	0.67
6:C:414:LEU:HD23	6:C:460:ALA:HB1	1.75	0.67
6:C:969:LEU:HB3	6:C:970:LEU:HD12	1.77	0.67
6:C:1677:SER:O	6:C:1680:ALA:N	2.26	0.67
6:C:1725:GLN:NE2	6:C:1754:GLN:OE1	2.26	0.67
6:C:2122:LEU:HG	6:C:2127:LYS:HD2	1.76	0.67
6:C:3085:GLU:HA	6:C:3088:LEU:HB2	1.76	0.67
2:B:44:ARG:O	2:B:48:ALA:N	2.27	0.67
4:D:13:DT:O4'	5:E:24:DG:N2	2.27	0.67
6:C:137:THR:O	6:C:141:SER:OG	2.08	0.67
6:C:347:GLY:O	6:C:351:ASN:HB2	1.95	0.67
6:C:670:LEU:O	6:C:674:VAL:N	2.23	0.67
6:C:1049:GLN:HB3	6:C:1056:THR:HG21	1.76	0.67
6:C:1358:LEU:HD22	6:C:1361:LYS:HE2	1.76	0.67
6:C:3447:VAL:HA	6:C:3465:PHE:CZ	2.30	0.67
6:C:3500:SER:HB2	6:C:3762:GLN:NE2	2.08	0.67
6:C:3634:GLN:HA	6:C:3638:LYS:HE2	1.76	0.67
6:C:3778:ASP:OD2	6:C:3781:CYS:N	2.26	0.67
6:C:4104:VAL:O	6:C:4108:MET:HG2	1.94	0.67
6:C:4127:TRP:CZ3	6:C:4128:MET:HB2	2.29	0.67
1:A:89:GLY:HA2	1:A:141:TYR:HB3	1.77	0.67
1:A:317:LYS:HG3	1:A:330:GLU:HA	1.75	0.67
2:B:299:ASP:OD1	2:B:300:ASP:N	2.28	0.67
4:D:-6:DT:C2	4:D:-5:DT:N3	2.63	0.67
6:C:1153:LEU:HB2	6:C:1154:PRO:HD3	1.77	0.67
6:C:2101:VAL:O	6:C:2105:HIS:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2114:GLU:HB3	6:C:2155:GLU:HG2	1.75	0.67
6:C:2196:TRP:CG	6:C:2199:LEU:HB2	2.30	0.67
6:C:2459:VAL:HA	6:C:2462:VAL:HG12	1.74	0.67
6:C:2791:ILE:O	6:C:2795:GLN:HG3	1.95	0.67
1:A:302:THR:O	1:A:311:LEU:N	2.28	0.67
6:C:153:PHE:HB3	6:C:157:TYR:CE2	2.30	0.67
6:C:1342:MET:HA	6:C:1345:THR:HB	1.76	0.67
6:C:2276:LEU:HD11	6:C:2280:VAL:HG23	1.77	0.67
6:C:2361:ILE:O	6:C:2364:LEU:N	2.28	0.67
6:C:2943:PHE:CZ	6:C:2986:PRO:HG2	2.29	0.67
6:C:3467:ARG:NH2	6:C:4000:ASN:OD1	2.27	0.67
1:A:318:ARG:CZ	2:B:278:VAL:HG13	2.25	0.67
2:B:316:TYR:O	2:B:319:ASP:N	2.27	0.67
6:C:1165:LEU:HB3	6:C:1169:VAL:HG23	1.76	0.67
6:C:1352:SER:O	6:C:1354:GLU:N	2.27	0.67
6:C:2117:SER:HB2	6:C:2157:PHE:HB3	1.76	0.67
6:C:3141:PHE:O	6:C:3145:ILE:HG12	1.95	0.67
2:B:465:LYS:O	2:B:473:LEU:HA	1.95	0.67
6:C:2395:THR:O	6:C:2399:GLU:N	2.13	0.67
6:C:3084:GLN:OE1	6:C:3087:SER:OG	2.05	0.67
6:C:3301:LEU:HD13	6:C:3328:ILE:HG21	1.76	0.67
6:C:3581:PRO:O	6:C:3584:LEU:N	2.28	0.67
1:A:353:LEU:HB2	1:A:393:GLU:HG2	1.76	0.67
6:C:533:HIS:O	6:C:537:SER:N	2.25	0.67
6:C:910:PHE:O	6:C:913:ARG:N	2.28	0.67
6:C:1072:ALA:HB3	6:C:1075:ARG:HG2	1.76	0.67
6:C:1329:ARG:O	6:C:1333:SER:CB	2.42	0.67
6:C:1814:PHE:CZ	6:C:1818:SER:HA	2.30	0.67
6:C:2097:LEU:O	6:C:2100:LEU:HB3	1.94	0.67
6:C:3336:ILE:HG23	6:C:3339:ASN:H	1.60	0.67
6:C:4069:GLU:HB3	6:C:4070:LYS:HG3	1.76	0.67
1:A:40:PHE:CD2	1:A:67:ILE:HG23	2.29	0.67
6:C:152:LEU:HA	6:C:155:LYS:HE2	1.75	0.67
6:C:2060:ARG:HB3	6:C:2061:PRO:HD3	1.75	0.67
6:C:2458:VAL:HG12	6:C:2459:VAL:HG23	1.77	0.67
6:C:2553:HIS:O	6:C:2556:SER:OG	2.10	0.67
6:C:3192:LYS:HA	6:C:3195:GLU:HG2	1.76	0.67
2:B:31:PHE:CZ	2:B:100:PRO:HB3	2.30	0.67
2:B:249:CYS:SG	2:B:250:ARG:N	2.66	0.67
6:C:1403:MET:HA	6:C:1406:LEU:HD12	1.75	0.67
6:C:2538:ARG:NH1	6:C:2565:MET:SD	2.68	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3004:HIS:O	6:C:3046:ARG:NE	2.28	0.67
6:C:3141:PHE:HA	6:C:3144:PHE:CE2	2.30	0.67
6:C:3420:CYS:O	6:C:3423:GLN:N	2.28	0.67
6:C:3493:TRP:CH2	6:C:3714:GLU:HB2	2.30	0.67
6:C:3498:TRP:O	6:C:3501:HIS:HB2	1.94	0.67
2:B:453:ALA:HB3	2:B:532:LYS:HZ2	1.59	0.66
6:C:1265:GLU:HA	6:C:1268:ASN:ND2	2.11	0.66
6:C:1566:THR:OG1	6:C:1570:GLU:OE2	2.10	0.66
6:C:1890:HIS:CG	6:C:1937:ARG:HA	2.30	0.66
6:C:2916:LEU:O	6:C:2919:ASP:N	2.28	0.66
6:C:3124:SER:O	6:C:3128:LYS:NZ	2.19	0.66
1:A:143:LEU:HD12	1:A:144:SER:N	2.10	0.66
5:E:45:DG:H5'	6:C:260:ILE:HD12	1.76	0.66
6:C:377:ASN:ND2	6:C:423:TYR:OH	2.28	0.66
6:C:560:LEU:HD22	6:C:616:LYS:HE2	1.77	0.66
6:C:566:ASP:OD1	6:C:1806:ARG:NH2	2.27	0.66
6:C:1963:GLN:O	6:C:1967:PHE:N	2.29	0.66
6:C:2314:GLU:HA	6:C:2316:TYR:CE2	2.30	0.66
6:C:2371:PHE:CD2	6:C:2372:PRO:HA	2.30	0.66
6:C:3104:GLN:HA	6:C:3107:ILE:HD12	1.77	0.66
6:C:3502:MET:O	6:C:3506:LEU:N	2.27	0.66
6:C:3613:MET:O	6:C:3617:LEU:N	2.22	0.66
2:B:533:ILE:HA	2:B:537:PHE:CD2	2.30	0.66
4:D:8:DT:H2''	4:D:9:DG:C8	2.30	0.66
6:C:263:LYS:HE2	6:C:264:ARG:HH12	1.59	0.66
6:C:559:SER:HA	6:C:562:HIS:HD2	1.59	0.66
6:C:640:GLU:O	6:C:644:PRO:HD3	1.95	0.66
6:C:2139:PRO:O	6:C:2143:ARG:HG3	1.95	0.66
6:C:3084:GLN:O	6:C:3088:LEU:N	2.27	0.66
6:C:3708:ARG:NH2	6:C:3792:SER:OG	2.28	0.66
6:C:3866:GLU:O	6:C:3869:THR:OG1	2.13	0.66
6:C:4041:ARG:O	6:C:4045:CYS:N	2.25	0.66
1:A:317:LYS:HG2	1:A:318:ARG:H	1.61	0.66
6:C:1135:CYS:HA	6:C:1138:ILE:HB	1.77	0.66
5:E:31:DA:H3'	5:E:32:DT:H71	1.77	0.66
6:C:28:ALA:O	6:C:32:HIS:ND1	2.28	0.66
6:C:1052:SER:OG	6:C:1055:ASN:HB2	1.96	0.66
6:C:1963:GLN:HA	6:C:1966:LEU:HB2	1.78	0.66
6:C:2073:ASP:HA	6:C:2076:VAL:HG22	1.75	0.66
6:C:2251:ILE:HA	6:C:2253:TYR:CE2	2.30	0.66
6:C:2526:SER:HA	6:C:2530:ARG:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3268:THR:H	6:C:3271:ASP:HB2	1.60	0.66
1:A:40:PHE:HE2	1:A:71:TYR:HB2	1.61	0.66
2:B:385:ASP:OD1	2:B:386:ASP:N	2.29	0.66
2:B:484:ASN:H	2:B:487:PHE:HZ	1.43	0.66
4:D:-5:DT:C2	4:D:-4:DA:C8	2.83	0.66
6:C:16:GLN:O	6:C:20:SER:CB	2.43	0.66
6:C:82:ARG:NH1	6:C:114:VAL:HG13	2.11	0.66
6:C:2507:ILE:HA	6:C:2522:ARG:HH21	1.59	0.66
6:C:2960:GLU:OE2	6:C:2963:SER:N	2.22	0.66
6:C:2998:SER:HB3	6:C:3002:TYR:OH	1.95	0.66
6:C:3584:LEU:HB3	6:C:3617:LEU:HD11	1.77	0.66
6:C:3842:TRP:CE2	6:C:3867:THR:HG21	2.30	0.66
6:C:3864:ARG:HH12	6:C:4077:TYR:HB2	1.60	0.66
1:A:80:ARG:NH1	4:D:-1:DA:O3'	2.28	0.66
6:C:1083:ASN:HA	6:C:1086:TYR:HD2	1.60	0.66
6:C:1100:VAL:O	6:C:1104:LEU:HB2	1.96	0.66
6:C:1457:GLN:O	6:C:1461:ALA:HB3	1.96	0.66
6:C:2482:ASP:OD1	6:C:2485:ARG:NH2	2.29	0.66
6:C:2484:TYR:CZ	6:C:2498:ILE:HG21	2.30	0.66
6:C:3493:TRP:HE1	6:C:3710:LYS:N	1.93	0.66
6:C:3495:PHE:HA	6:C:3498:TRP:CH2	2.31	0.66
6:C:3500:SER:O	6:C:3503:VAL:HG12	1.95	0.66
6:C:3983:ILE:HA	6:C:3986:HIS:ND1	2.11	0.66
6:C:4095:GLU:HG3	6:C:4098:LEU:H	1.61	0.66
1:A:35:ARG:HD2	1:A:80:ARG:HB2	1.78	0.66
1:A:127:GLY:O	1:A:131:PHE:CB	2.44	0.66
1:A:244:ARG:NH2	1:A:505:ASP:OD1	2.29	0.66
6:C:1121:LEU:HG	6:C:1122:GLY:H	1.60	0.66
6:C:1238:GLN:HA	6:C:1298:LEU:HD21	1.78	0.66
6:C:2522:ARG:NH1	6:C:2526:SER:HG	1.94	0.66
6:C:3160:LEU:HD11	6:C:3193:ILE:HD13	1.78	0.66
6:C:3649:SER:O	6:C:3653:ARG:HG2	1.95	0.66
6:C:3733:ARG:HH22	6:C:3756:GLU:HB3	1.61	0.66
6:C:4001:THR:O	6:C:4005:PHE:CB	2.43	0.66
6:C:4109:ASP:O	6:C:4112:THR:HG22	1.95	0.66
2:B:315:ARG:HA	2:B:320:ILE:HA	1.78	0.66
2:B:510:GLN:O	2:B:514:ASN:N	2.17	0.66
6:C:246:ARG:CZ	6:C:286:LEU:HD12	2.26	0.66
6:C:994:TRP:O	6:C:998:ASN:ND2	2.27	0.66
6:C:1170:LYS:HG2	6:C:1267:TYR:HB2	1.77	0.66
6:C:1228:GLY:H	6:C:1287:GLN:NE2	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1869:LYS:HA	6:C:1873:TYR:CE2	2.30	0.66
6:C:2052:TYR:HA	6:C:2055:SER:OG	1.95	0.66
6:C:2940:ARG:HD2	6:C:3975:LYS:HD3	1.77	0.66
6:C:2962:ARG:CA	6:C:3003:ASN:HD21	1.99	0.66
6:C:3700:GLU:HG3	6:C:3718:ARG:HG2	1.77	0.66
1:A:50:GLU:OE1	1:A:50:GLU:N	2.23	0.66
1:A:239:LEU:HD12	1:A:242:LEU:HB2	1.77	0.66
2:B:384:LEU:HA	2:B:389:MET:HB2	1.78	0.66
4:D:-5:DT:H2'	4:D:-4:DA:C8	2.29	0.66
6:C:886:TRP:NE1	6:C:889:GLU:HB2	2.10	0.66
6:C:1977:ILE:HB	6:C:1980:ASN:HB2	1.77	0.66
6:C:2341:LEU:HD12	6:C:2344:LEU:HD12	1.78	0.66
6:C:3078:LEU:HA	6:C:3081:HIS:ND1	2.10	0.66
6:C:3298:LEU:HG	6:C:3302:LYS:HG3	1.77	0.66
6:C:3818:ASN:OD1	6:C:3819:THR:N	2.29	0.66
6:C:856:VAL:HA	6:C:859:LEU:HD12	1.78	0.65
6:C:1072:ALA:HB1	6:C:1074:LYS:HG3	1.78	0.65
6:C:2208:ASP:O	6:C:2211:LEU:N	2.28	0.65
6:C:2861:ILE:HG21	6:C:2888:VAL:HG23	1.77	0.65
6:C:3619:ASP:HB3	6:C:3622:ALA:HB2	1.78	0.65
6:C:3813:LYS:HD2	6:C:3816:LEU:HD23	1.78	0.65
6:C:4113:ASP:O	6:C:4117:LEU:N	2.29	0.65
1:A:65:GLN:HG3	1:A:123:LYS:HE2	1.77	0.65
1:A:168:LEU:HB2	1:A:200:LEU:HD11	1.77	0.65
1:A:202:LEU:H	1:A:221:ILE:HG22	1.60	0.65
1:A:352:PRO:HD2	2:B:464:ALA:HB3	1.78	0.65
6:C:78:PHE:HA	6:C:81:CYS:HB2	1.77	0.65
6:C:90:CYS:HB2	6:C:136:GLN:HG3	1.79	0.65
6:C:290:TYR:HH	6:C:294:PHE:HD1	1.44	0.65
6:C:441:MET:O	6:C:445:SER:HB2	1.95	0.65
6:C:1001:PHE:CE1	6:C:1002:GLU:HG3	2.32	0.65
6:C:1062:ARG:HG3	6:C:1063:LEU:HG	1.79	0.65
6:C:1172:LEU:O	6:C:1176:CYS:N	2.28	0.65
6:C:2047:THR:O	6:C:2050:GLN:N	2.28	0.65
6:C:2121:ASP:HA	6:C:2126:MET:HB2	1.77	0.65
6:C:2317:ALA:HA	6:C:2320:ALA:HB3	1.78	0.65
6:C:2379:MET:O	6:C:2382:VAL:N	2.29	0.65
6:C:3297:VAL:HG13	6:C:3298:LEU:H	1.61	0.65
6:C:3480:LEU:O	6:C:3484:THR:OG1	2.15	0.65
1:A:254:ARG:HH22	4:D:1:DG:H4'	1.61	0.65
2:B:253:ILE:N	2:B:257:LEU:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:373:CYS:H	6:C:375:VAL:HG23	1.61	0.65
6:C:1010:LEU:HA	6:C:1013:ILE:HG12	1.78	0.65
6:C:1340:ARG:HA	6:C:1343:GLU:CG	2.22	0.65
6:C:3592:VAL:HG22	6:C:3606:ILE:HG23	1.78	0.65
6:C:3631:LYS:HZ3	6:C:3686:TRP:HD1	1.44	0.65
6:C:4030:GLU:O	6:C:4034:ALA:HB2	1.95	0.65
1:A:254:ARG:NE	4:D:0:DT:O3'	2.29	0.65
1:A:361:TYR:CD1	1:A:436:PHE:HZ	2.14	0.65
6:C:70:ARG:HE	6:C:82:ARG:HE	1.44	0.65
6:C:2140:LEU:HA	6:C:2143:ARG:HD2	1.79	0.65
6:C:2185:MET:O	6:C:2189:ILE:HG12	1.97	0.65
6:C:2446:LEU:HB2	6:C:2451:LEU:HD12	1.78	0.65
6:C:2833:THR:HA	6:C:2836:LEU:HD12	1.77	0.65
6:C:2837:LEU:HD22	6:C:2868:LEU:HA	1.78	0.65
6:C:3462:ARG:HG3	6:C:3463:LEU:HG	1.78	0.65
6:C:3772:ASN:HA	6:C:3775:LEU:HG	1.77	0.65
1:A:194:ARG:NE	1:A:222:SER:HA	2.12	0.65
1:A:343:PRO:HG3	1:A:405:ASN:H	1.61	0.65
1:A:430:PRO:HB2	2:B:438:LEU:HD12	1.78	0.65
2:B:184:ARG:HD3	2:B:514:ASN:HB3	1.79	0.65
6:C:249:PHE:CE1	6:C:272:LEU:HG	2.32	0.65
6:C:3121:LEU:N	6:C:3124:SER:HB2	2.11	0.65
6:C:3808:ASN:HB3	6:C:3932:MET:HG2	1.77	0.65
6:C:3999:THR:O	6:C:4003:ASP:CB	2.44	0.65
1:A:398:CYS:SG	1:A:399:ARG:N	2.70	0.65
6:C:891:ARG:NH1	6:C:893:SER:HA	2.11	0.65
6:C:993:HIS:HD2	6:C:1034:ARG:HH22	1.44	0.65
6:C:1974:ASN:HB2	6:C:1984:LEU:HD22	1.78	0.65
2:B:107:PHE:HE2	2:B:140:SER:HB2	1.61	0.65
5:E:44:DA:H2'	5:E:45:DG:C8	2.32	0.65
6:C:87:LYS:HG2	6:C:133:LYS:HE3	1.76	0.65
6:C:177:LEU:HD23	6:C:180:LEU:HD12	1.79	0.65
6:C:355:ASN:HD21	6:C:357:LYS:HE3	1.61	0.65
6:C:913:ARG:NH2	6:C:929:ALA:O	2.30	0.65
6:C:2022:PRO:HG3	6:C:2041:SER:O	1.97	0.65
6:C:2841:ASN:HA	6:C:2844:LEU:HD12	1.79	0.65
2:B:7:LYS:HA	2:B:51:LYS:O	1.96	0.65
2:B:251:LEU:HD13	2:B:340:PHE:CD2	2.32	0.65
3:K:15:ALA:O	3:K:19:ALA:HB2	1.97	0.65
6:C:82:ARG:O	6:C:86:LEU:HB2	1.97	0.65
6:C:131:LEU:O	6:C:135:LEU:HG	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:175:TYR:HE1	6:C:200:PHE:HB3	1.62	0.65
6:C:2943:PHE:HZ	6:C:2986:PRO:HG2	1.62	0.65
6:C:3768:PHE:HB3	6:C:3788:LEU:HD21	1.77	0.65
6:C:3922:ASP:CG	6:C:3941:ASP:HB3	2.16	0.65
1:A:114:LYS:HA	1:A:117:LEU:HB2	1.79	0.65
1:A:317:LYS:HD2	1:A:328:ILE:HG13	1.79	0.65
1:A:319:SER:N	2:B:277:THR:O	2.29	0.65
6:C:1747:LEU:O	6:C:1751:GLU:HB3	1.97	0.65
6:C:1906:THR:O	6:C:1910:GLU:N	2.29	0.65
6:C:2072:ARG:N	6:C:2075:THR:HG1	1.91	0.65
6:C:2139:PRO:O	6:C:2143:ARG:N	2.29	0.65
6:C:2514:ASN:HB2	6:C:2515:PRO:HD3	1.79	0.65
6:C:2568:MET:HG3	6:C:2569:SER:H	1.62	0.65
1:A:115:ARG:NE	1:A:118:GLU:OE2	2.27	0.65
1:A:340:PHE:HE2	2:B:485:PRO:HB3	1.62	0.65
2:B:435:PHE:HZ	2:B:438:LEU:HG	1.62	0.65
2:B:519:PRO:HB2	2:B:521:GLU:OE1	1.96	0.65
5:E:38:DA:H2"	5:E:39:DA:C8	2.31	0.65
6:C:624:ILE:HG22	6:C:659:ARG:NH1	2.12	0.65
6:C:649:PHE:HD1	6:C:656:GLN:HG3	1.60	0.65
6:C:907:LEU:O	6:C:910:PHE:HE2	1.80	0.65
6:C:1045:THR:O	6:C:1049:GLN:HG3	1.97	0.65
6:C:1086:TYR:O	6:C:1090:ARG:N	2.16	0.65
6:C:1135:CYS:O	6:C:1139:GLU:N	2.30	0.65
6:C:2013:GLU:O	6:C:2016:ASN:ND2	2.30	0.65
6:C:2242:VAL:HA	6:C:2245:TRP:HD1	1.60	0.65
6:C:2806:LYS:O	6:C:2809:PHE:N	2.17	0.65
6:C:3114:TYR:O	6:C:3117:ILE:HG22	1.96	0.65
6:C:3988:LEU:HA	6:C:3991:PHE:CD2	2.32	0.65
1:A:302:THR:HB	1:A:311:LEU:HD12	1.78	0.64
2:B:293:THR:HG23	2:B:294:VAL:H	1.62	0.64
6:C:32:HIS:HA	6:C:35:ILE:HD12	1.79	0.64
6:C:1180:GLN:HG3	6:C:1219:PHE:HZ	1.60	0.64
6:C:1459:HIS:CD2	6:C:1464:LEU:HD22	2.32	0.64
6:C:2878:ALA:HB3	6:C:2882:ALA:HB2	1.79	0.64
6:C:3681:LYS:HG2	6:C:3724:GLU:HB3	1.78	0.64
1:A:301:ARG:HB3	6:C:163:LYS:HD2	1.79	0.64
1:A:471:PHE:CE2	2:B:344:GLY:HA3	2.32	0.64
6:C:888:ARG:NH2	6:C:3892:THR:HA	2.11	0.64
6:C:959:TYR:CE2	6:C:963:LYS:HE3	2.32	0.64
6:C:1058:SER:HA	6:C:1061:LYS:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1459:HIS:HD2	6:C:1464:LEU:HD22	1.62	0.64
6:C:2893:LEU:HA	6:C:2897:LEU:HB3	1.79	0.64
6:C:3309:GLU:OE1	6:C:3312:VAL:HG21	1.96	0.64
6:C:3454:LEU:HD21	6:C:3494:GLN:HB3	1.79	0.64
1:A:85:VAL:O	1:A:105:LEU:HB3	1.98	0.64
1:A:126:GLN:OE1	1:A:126:GLN:N	2.30	0.64
6:C:127:ALA:HA	6:C:130:LEU:HD13	1.78	0.64
6:C:992:ILE:HD11	6:C:1034:ARG:HG3	1.78	0.64
6:C:1746:PHE:HA	6:C:1750:LEU:HD13	1.79	0.64
6:C:2363:CYS:O	6:C:2365:ASN:N	2.31	0.64
6:C:2398:LEU:H	6:C:2432:GLN:NE2	1.95	0.64
6:C:2886:GLN:NE2	6:C:2921:LEU:O	2.29	0.64
6:C:3239:LYS:HG3	6:C:3243:ILE:HD11	1.79	0.64
6:C:3949:ALA:HA	6:C:3952:PHE:CE2	2.33	0.64
1:A:70:VAL:O	1:A:73:SER:OG	2.10	0.64
1:A:90:THR:HG22	1:A:91:GLU:H	1.61	0.64
6:C:649:PHE:CE1	6:C:652:GLU:HA	2.32	0.64
6:C:963:LYS:HB3	6:C:1009:LEU:HD13	1.78	0.64
6:C:2062:ALA:HA	6:C:2125:TRP:HB2	1.80	0.64
6:C:2299:TYR:O	6:C:2303:LEU:HG	1.97	0.64
6:C:3167:ARG:O	6:C:3241:LYS:NZ	2.29	0.64
6:C:4095:GLU:O	6:C:4099:SER:OG	2.15	0.64
1:A:144:SER:HB2	1:A:185:ARG:HG2	1.80	0.64
2:B:402:ASN:HD21	5:E:30:DA:P	2.21	0.64
2:B:495:LEU:O	2:B:499:LEU:HB2	1.96	0.64
6:C:445:SER:OG	6:C:1821:ASP:OD2	2.16	0.64
6:C:1064:TYR:O	6:C:1067:ALA:HB3	1.98	0.64
6:C:1129:ASP:O	6:C:1133:HIS:ND1	2.31	0.64
6:C:1282:LEU:HB3	6:C:1287:GLN:HB2	1.78	0.64
6:C:2207:LYS:C	6:C:2209:GLU:H	1.99	0.64
6:C:2510:LEU:HB2	6:C:2522:ARG:NH2	2.12	0.64
6:C:3045:ILE:O	6:C:3048:LYS:NZ	2.23	0.64
6:C:3108:GLN:O	6:C:3111:MET:HB2	1.96	0.64
6:C:3532:PRO:HA	6:C:3535:ILE:HD11	1.78	0.64
6:C:3611:GLU:O	6:C:3615:ALA:CB	2.44	0.64
1:A:113:ALA:HA	1:A:116:ILE:HD12	1.80	0.64
1:A:279:LYS:HG3	1:A:279:LYS:O	1.98	0.64
2:B:441:SER:O	2:B:444:TYR:N	2.24	0.64
6:C:348:ILE:HA	6:C:351:ASN:HB3	1.80	0.64
6:C:484:HIS:O	6:C:487:LEU:HB3	1.98	0.64
6:C:960:GLN:HG2	6:C:961:LEU:HD12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:962:TYR:O	6:C:965:THR:OG1	2.11	0.64
6:C:1759:LEU:HD23	6:C:1936:ARG:HH12	1.62	0.64
6:C:2122:LEU:HA	6:C:2127:LYS:HD2	1.80	0.64
6:C:2233:HIS:HA	6:C:2236:GLU:CD	2.18	0.64
6:C:2386:LEU:CD1	6:C:2401:VAL:HA	2.28	0.64
6:C:2780:LEU:O	6:C:2784:GLN:N	2.31	0.64
1:A:370:PRO:HG2	1:A:382:PHE:CE1	2.33	0.64
3:K:25:ALA:HB1	6:C:2194:LEU:HD23	1.80	0.64
6:C:716:VAL:HA	6:C:719:LYS:HD2	1.80	0.64
6:C:1329:ARG:HD3	6:C:1332:TYR:CD2	2.33	0.64
6:C:1418:HIS:O	6:C:1421:GLU:HB2	1.98	0.64
6:C:1935:GLU:HB3	6:C:1986:ARG:NH1	2.12	0.64
6:C:2470:ARG:HD2	6:C:2474:TYR:HE2	1.62	0.64
6:C:2979:GLN:OE1	6:C:2979:GLN:N	2.29	0.64
6:C:3923:ARG:NH2	6:C:3941:ASP:H	1.95	0.64
6:C:4019:LYS:O	6:C:4022:LYS:N	2.31	0.64
3:K:15:ALA:O	3:K:19:ALA:CB	2.46	0.64
6:C:1105:VAL:O	6:C:1108:MET:N	2.31	0.64
6:C:1135:CYS:HB2	6:C:1175:HIS:NE2	2.13	0.64
6:C:2280:VAL:O	6:C:2283:ASN:ND2	2.27	0.64
6:C:3293:CYS:SG	6:C:3294:SER:N	2.69	0.64
6:C:3316:LEU:HD21	6:C:3403:CYS:HA	1.78	0.64
6:C:3322:ALA:O	6:C:3325:ASP:HB3	1.98	0.64
6:C:3748:HIS:HB3	6:C:3750:PHE:CE2	2.32	0.64
6:C:3821:SER:OG	6:C:3829:LEU:N	2.30	0.64
6:C:4113:ASP:CG	6:C:4115:ASN:HB3	2.18	0.64
1:A:82:LEU:HG	1:A:109:ASP:C	2.18	0.64
4:D:1:DG:C2	5:E:36:DA:C2	2.86	0.64
4:D:6:DT:H2'	4:D:7:DA:H8	1.63	0.64
6:C:249:PHE:O	6:C:252:VAL:HG12	1.98	0.64
6:C:850:GLU:HB3	6:C:854:ARG:NH1	2.13	0.64
6:C:1549:SER:HA	6:C:1553:PHE:HD2	1.63	0.64
6:C:1569:THR:HA	6:C:1572:LEU:HD12	1.79	0.64
6:C:1693:VAL:HG13	6:C:1696:LEU:HD12	1.79	0.64
6:C:1934:LEU:H	6:C:1937:ARG:HD3	1.62	0.64
6:C:2180:GLU:HB2	6:C:2184:TYR:CZ	2.33	0.64
6:C:2383:PHE:HA	6:C:2404:ARG:CZ	2.28	0.64
6:C:2430:GLU:O	6:C:2433:LYS:N	2.31	0.64
6:C:2515:PRO:HD2	6:C:2518:GLN:NE2	2.13	0.64
1:A:39:ILE:HA	1:A:84:ALA:HB3	1.80	0.64
1:A:304:ASN:N	1:A:309:GLY:O	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:65:ASP:H	2:B:78:THR:HA	1.63	0.64
2:B:467:ASP:OD1	2:B:468:GLU:N	2.31	0.64
6:C:175:TYR:CE1	6:C:200:PHE:HB3	2.32	0.64
6:C:746:ARG:N	6:C:748:TYR:HE2	1.93	0.64
6:C:1224:PHE:CD2	6:C:1278:ALA:HB1	2.33	0.64
6:C:2148:LYS:HA	6:C:2151:ILE:HB	1.80	0.64
6:C:2222:HIS:CE1	6:C:2226:PRO:HG2	2.33	0.64
6:C:2397:CYS:HA	6:C:2401:VAL:HG23	1.79	0.64
6:C:3610:TYR:OH	6:C:3651:LEU:O	2.16	0.64
6:C:3621:LYS:HZ2	6:C:3638:LYS:HB3	1.62	0.64
6:C:3763:ARG:NH1	6:C:4005:PHE:O	2.32	0.64
1:A:68:GLN:O	1:A:72:ILE:HB	1.98	0.63
1:A:392:LYS:NZ	2:B:458:ILE:HG22	2.13	0.63
6:C:337:LYS:HA	6:C:340:TYR:CD2	2.33	0.63
6:C:399:GLN:HG2	6:C:405:ASP:CB	2.27	0.63
6:C:584:GLU:HG2	6:C:586:GLN:H	1.63	0.63
6:C:2066:PHE:HE1	6:C:2128:PHE:HD1	1.43	0.63
6:C:2146:LEU:O	6:C:2149:LEU:HB2	1.97	0.63
6:C:2156:VAL:HG23	6:C:2160:TYR:CZ	2.33	0.63
6:C:2415:LEU:O	6:C:2418:LYS:N	2.27	0.63
6:C:2510:LEU:HD12	6:C:2522:ARG:HG3	1.78	0.63
6:C:3086:LEU:HD21	6:C:3102:TYR:HD1	1.61	0.63
6:C:3947:GLY:O	6:C:3951:GLN:CB	2.46	0.63
1:A:103:TYR:OH	1:A:135:MET:O	2.07	0.63
2:B:409:PHE:CD1	2:B:410:PRO:HD2	2.34	0.63
6:C:480:SER:O	6:C:483:VAL:HG22	1.98	0.63
6:C:741:ILE:O	6:C:744:ASP:N	2.32	0.63
6:C:741:ILE:HG13	6:C:745:VAL:CG2	2.28	0.63
6:C:772:ALA:O	6:C:775:GLU:N	2.31	0.63
6:C:1135:CYS:HB2	6:C:1175:HIS:CD2	2.33	0.63
6:C:1597:LEU:HA	6:C:1600:MET:SD	2.38	0.63
6:C:2463:SER:HA	6:C:2470:ARG:NH2	2.13	0.63
6:C:3061:LEU:O	6:C:3065:ILE:HB	1.98	0.63
6:C:3815:LEU:O	6:C:3819:THR:HG22	1.97	0.63
1:A:325:ARG:HH22	2:B:498:ALA:HB1	1.63	0.63
1:A:447:PRO:HA	2:B:243:HIS:HD2	1.62	0.63
6:C:789:TYR:OH	6:C:790:LYS:HE3	1.99	0.63
6:C:1482:GLU:O	6:C:1485:SER:N	2.32	0.63
6:C:1602:ASP:OD1	6:C:1605:PHE:HD2	1.81	0.63
6:C:1870:LYS:NZ	6:C:1888:ASP:OD2	2.31	0.63
6:C:2160:TYR:HA	6:C:2163:HIS:HD2	1.59	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2962:ARG:HH21	6:C:3254:LEU:HG	1.62	0.63
6:C:2975:ALA:O	6:C:2978:LYS:HG2	1.98	0.63
6:C:3897:PHE:O	6:C:3900:LEU:HB2	1.99	0.63
6:C:3978:GLY:O	6:C:3981:TYR:N	2.32	0.63
1:A:410:PHE:HB2	1:A:439:PHE:CZ	2.33	0.63
1:A:413:LEU:HD23	1:A:434:LEU:HA	1.80	0.63
6:C:114:VAL:HG12	6:C:134:LEU:HD11	1.81	0.63
6:C:321:LYS:HG2	6:C:325:ASN:HD21	1.63	0.63
6:C:760:LEU:HD23	6:C:764:PRO:HA	1.79	0.63
6:C:987:LEU:O	6:C:990:GLN:HG2	1.99	0.63
6:C:2243:GLU:O	6:C:2246:LYS:NZ	2.24	0.63
6:C:2970:LYS:O	6:C:2974:GLU:HB3	1.99	0.63
1:A:353:LEU:N	1:A:393:GLU:O	2.23	0.63
2:B:202:LYS:HG3	2:B:205:LEU:HD23	1.80	0.63
2:B:467:ASP:HB3	2:B:474:GLU:HG2	1.80	0.63
6:C:492:SER:HA	6:C:494:PRO:HD3	1.81	0.63
6:C:705:ALA:O	6:C:708:VAL:HB	1.97	0.63
6:C:959:TYR:HE2	6:C:963:LYS:HE3	1.63	0.63
6:C:1406:LEU:HD22	6:C:1414:ILE:HG21	1.81	0.63
6:C:2187:VAL:O	6:C:2191:ALA:HB2	1.96	0.63
6:C:2361:ILE:HG12	6:C:2385:LEU:HD23	1.80	0.63
6:C:3309:GLU:O	6:C:3312:VAL:HG22	1.97	0.63
6:C:3571:PHE:CE1	6:C:3691:LYS:HE3	2.33	0.63
6:C:3631:LYS:HA	6:C:3634:GLN:HB3	1.81	0.63
6:C:3812:LEU:HD12	6:C:3813:LYS:N	2.14	0.63
6:C:3868:VAL:O	6:C:3872:ARG:HB2	1.98	0.63
1:A:367:PHE:CZ	1:A:431:GLY:HA3	2.33	0.63
2:B:400:ARG:HH11	4:D:9:DG:H5"	1.63	0.63
6:C:495:VAL:HG22	6:C:527:TYR:CD2	2.31	0.63
6:C:649:PHE:O	6:C:651:TYR:N	2.31	0.63
6:C:963:LYS:O	6:C:967:PRO:HD2	1.99	0.63
6:C:1141:LYS:HE3	6:C:1179:PRO:HB3	1.81	0.63
6:C:1458:LEU:HD11	6:C:1467:ILE:HD12	1.80	0.63
6:C:2022:PRO:O	6:C:2069:ARG:NE	2.31	0.63
6:C:2252:PRO:O	6:C:2256:ILE:HG13	1.98	0.63
6:C:2307:MET:HB3	6:C:2348:GLN:HE22	1.63	0.63
6:C:3134:ALA:HA	6:C:3137:GLU:OE1	1.99	0.63
6:C:3882:LEU:HA	6:C:3885:ARG:HB3	1.80	0.63
6:C:3984:MET:O	6:C:3987:ALA:HB3	1.99	0.63
6:C:4005:PHE:HD2	6:C:4006:VAL:HG13	1.63	0.63
1:A:51:SER:HA	1:A:58:THR:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:37:VAL:HG11	2:B:230:SER:HB3	1.79	0.63
2:B:351:VAL:HG12	2:B:356:PHE:HE1	1.64	0.63
5:E:32:DT:H2'	5:E:33:DA:C8	2.34	0.63
6:C:59:PHE:HB3	6:C:63:PHE:CZ	2.34	0.63
6:C:346:TYR:CD1	6:C:349:ILE:HD12	2.33	0.63
6:C:1033:ILE:HD12	6:C:1036:PHE:HB2	1.81	0.63
6:C:1082:PHE:O	6:C:1085:ILE:HB	1.98	0.63
6:C:1549:SER:O	6:C:1553:PHE:CB	2.37	0.63
6:C:1561:SER:O	6:C:1564:SER:N	2.32	0.63
6:C:1652:ILE:HG23	6:C:1717:LEU:HD21	1.81	0.63
6:C:2315:VAL:O	6:C:2319:ALA:N	2.26	0.63
6:C:2412:TYR:O	6:C:2414:GLN:N	2.31	0.63
6:C:2890:ILE:HD11	6:C:2921:LEU:HD11	1.78	0.63
6:C:3183:ILE:HG13	6:C:3238:MET:SD	2.39	0.63
6:C:3250:ASN:HA	6:C:3285:HIS:CE1	2.32	0.63
6:C:3483:MET:HA	6:C:3486:GLU:HG3	1.81	0.63
6:C:3528:ALA:O	6:C:3715:TYR:OH	2.14	0.63
1:A:403:ARG:HH21	5:E:36:DA:C1'	2.12	0.63
2:B:348:SER:N	2:B:388:ASP:O	2.32	0.63
6:C:17:GLU:O	6:C:21:ALA:CB	2.45	0.63
6:C:994:TRP:HZ3	6:C:2780:LEU:HG	1.63	0.63
6:C:1017:ILE:HG23	6:C:1018:VAL:H	1.64	0.63
6:C:1468:LEU:HA	6:C:1471:GLN:HB2	1.78	0.63
6:C:1647:ALA:HB1	6:C:1651:LYS:HZ3	1.64	0.63
6:C:2070:GLU:HA	6:C:2071:GLN:C	2.17	0.63
6:C:2382:VAL:CA	6:C:2385:LEU:HB2	2.22	0.63
6:C:2875:ALA:HA	6:C:2878:ALA:O	1.99	0.63
6:C:3011:LEU:O	6:C:3015:SER:OG	2.14	0.63
6:C:3813:LYS:O	6:C:3817:LEU:HG	1.98	0.63
6:C:3916:TRP:HE3	6:C:3917:ILE:HD13	1.64	0.63
1:A:420:LEU:HD22	1:A:424:LYS:HB3	1.81	0.63
2:B:65:ASP:N	2:B:77:ILE:O	2.32	0.63
6:C:944:LYS:O	6:C:947:GLN:NE2	2.31	0.63
6:C:1078:ALA:O	6:C:1082:PHE:HB3	1.99	0.63
6:C:1648:LEU:HD12	6:C:1684:LEU:HD22	1.79	0.63
6:C:2036:LEU:HD23	6:C:2039:GLU:OE1	1.99	0.63
6:C:2042:GLN:NE2	6:C:2045:PHE:HB2	2.13	0.63
6:C:2255:LEU:O	6:C:2259:LYS:HG3	1.99	0.63
6:C:2911:ARG:HB3	6:C:2913:LYS:CG	2.28	0.63
6:C:2970:LYS:O	6:C:2974:GLU:HB2	1.99	0.63
6:C:3172:LYS:HZ2	6:C:3241:LYS:HE2	1.60	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3596:LEU:HD22	6:C:3657:SER:HA	1.80	0.63
1:A:79:ASP:O	1:A:110:ASN:ND2	2.31	0.62
1:A:484:GLN:HA	1:A:487:PHE:CE2	2.34	0.62
2:B:27:ILE:HB	2:B:185:LEU:HD13	1.80	0.62
6:C:557:SER:HB3	6:C:645:TRP:HZ2	1.63	0.62
6:C:670:LEU:HD13	6:C:740:ILE:HG13	1.80	0.62
6:C:715:ALA:O	6:C:719:LYS:HG3	1.99	0.62
6:C:1457:GLN:O	6:C:1461:ALA:CB	2.47	0.62
6:C:2046:SER:OG	6:C:2047:THR:N	2.31	0.62
6:C:2260:PHE:HD1	6:C:2273:GLY:HA3	1.64	0.62
6:C:2560:ASN:HA	6:C:2563:LEU:HD12	1.81	0.62
6:C:2954:GLN:HA	6:C:2957:LEU:HB2	1.81	0.62
6:C:3112:GLN:O	6:C:3116:SER:N	2.31	0.62
6:C:3916:TRP:CE3	6:C:3917:ILE:HD13	2.34	0.62
1:A:274:TYR:HD2	1:A:369:TYR:H	1.46	0.62
4:D:13:DT:O4	5:E:22:DA:N6	2.32	0.62
6:C:82:ARG:HH11	6:C:114:VAL:HG13	1.64	0.62
6:C:175:TYR:HA	6:C:178:LEU:HD12	1.80	0.62
6:C:1125:GLN:NE2	6:C:1167:ASP:OD2	2.21	0.62
6:C:2240:THR:OG1	6:C:2241:LEU:N	2.32	0.62
6:C:2894:GLU:HB3	6:C:3973:PRO:HG2	1.80	0.62
6:C:3644:PHE:HE1	6:C:3669:LYS:HG2	1.63	0.62
1:A:43:ASP:HB2	1:A:168:LEU:HD11	1.81	0.62
1:A:291:GLU:N	1:A:291:GLU:OE1	2.33	0.62
1:A:405:ASN:CG	1:A:406:ILE:H	2.03	0.62
2:B:242:ARG:NH2	2:B:245:ILE:HG13	2.14	0.62
4:D:10:DG:N2	5:E:25:DG:H22	1.98	0.62
6:C:28:ALA:N	6:C:77:GLU:OE1	2.31	0.62
6:C:615:ALA:O	6:C:619:ASP:N	2.20	0.62
6:C:870:LEU:O	6:C:874:THR:OG1	2.18	0.62
6:C:1163:LEU:HD22	6:C:1256:TRP:CD1	2.34	0.62
6:C:1514:LEU:O	6:C:1517:LEU:N	2.31	0.62
6:C:2153:THR:O	6:C:2160:TYR:OH	2.14	0.62
6:C:2955:SER:O	6:C:2960:GLU:N	2.27	0.62
6:C:3469:LEU:HD12	6:C:3479:THR:HG21	1.80	0.62
6:C:3820:MET:SD	6:C:3829:LEU:HB3	2.39	0.62
6:C:3978:GLY:HA2	6:C:3981:TYR:HB3	1.81	0.62
6:C:4015:ASN:O	6:C:4019:LYS:HG3	1.99	0.62
1:A:478:PHE:H	2:B:427:MET:HB2	1.65	0.62
2:B:457:LEU:HD13	2:B:529:PRO:HB2	1.81	0.62
6:C:82:ARG:HH22	6:C:117:LYS:HE2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:434:VAL:O	6:C:438:LEU:CB	2.43	0.62
6:C:441:MET:HB2	6:C:1814:PHE:CE1	2.35	0.62
6:C:487:LEU:HD12	6:C:530:LEU:HD23	1.82	0.62
6:C:793:LEU:HD23	6:C:796:LEU:HD12	1.82	0.62
6:C:908:ASP:HA	6:C:910:PHE:CD2	2.34	0.62
6:C:912:PRO:O	6:C:915:THR:OG1	2.16	0.62
6:C:3110:PHE:HA	6:C:3113:ASN:CG	2.19	0.62
1:A:241:ASP:O	1:A:245:LYS:HB3	1.99	0.62
1:A:350:PHE:O	2:B:463:LEU:N	2.30	0.62
1:A:412:ALA:HB3	1:A:435:VAL:HB	1.80	0.62
2:B:303:THR:OG1	2:B:304:GLU:OE1	2.16	0.62
6:C:297:LEU:HG	6:C:300:TRP:CE3	2.34	0.62
6:C:784:VAL:HG12	6:C:788:TYR:HE2	1.64	0.62
6:C:973:ALA:HB1	6:C:981:ARG:H	1.64	0.62
6:C:1256:TRP:O	6:C:1259:LEU:N	2.31	0.62
6:C:2809:PHE:CD1	6:C:2809:PHE:N	2.65	0.62
6:C:2914:ALA:O	6:C:2918:PRO:HD2	2.00	0.62
6:C:2957:LEU:O	6:C:3989:ARG:NH1	2.32	0.62
6:C:3281:CYS:HB2	6:C:3324:ARG:HH12	1.65	0.62
6:C:3703:GLY:N	6:C:3706:ASP:OD2	2.31	0.62
6:C:3884:LYS:HZ2	6:C:3970:LEU:HA	1.64	0.62
1:A:276:LEU:HG	2:B:430:LEU:HA	1.81	0.62
6:C:203:GLU:O	6:C:206:THR:OG1	2.17	0.62
6:C:491:CYS:HA	6:C:527:TYR:CD1	2.34	0.62
6:C:970:LEU:HD23	6:C:985:GLU:HG3	1.81	0.62
6:C:1680:ALA:O	6:C:1683:LYS:N	2.32	0.62
6:C:2099:ALA:HA	6:C:2102:LYS:HB3	1.80	0.62
6:C:2254:ARG:O	6:C:2257:PHE:HB2	1.99	0.62
6:C:2350:LYS:HZ1	6:C:2377:ARG:HD2	1.64	0.62
6:C:3179:TRP:HE1	6:C:3245:SER:CB	2.13	0.62
6:C:3309:GLU:OE1	6:C:3318:LYS:NZ	2.25	0.62
1:A:278:GLN:NE2	4:D:2:DG:O5'	2.33	0.62
1:A:428:THR:HA	2:B:354:ARG:NH1	2.15	0.62
2:B:301:ASP:OD1	6:C:119:ARG:NH2	2.32	0.62
6:C:147:PHE:CE1	6:C:186:PRO:HG3	2.35	0.62
6:C:471:LYS:HZ2	6:C:474:VAL:H	1.45	0.62
6:C:887:ASP:OD2	6:C:3889:ARG:NE	2.33	0.62
6:C:1448:LEU:HD22	6:C:1503:LEU:HD21	1.82	0.62
6:C:2025:MET:HB2	6:C:2038:GLU:OE2	1.99	0.62
6:C:2273:GLY:O	6:C:2277:LEU:HG	1.99	0.62
6:C:2790:LEU:O	6:C:2794:LEU:HG	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2946:GLU:HG3	6:C:2947:ILE:N	2.14	0.62
6:C:3117:ILE:HG21	6:C:3125:ARG:HH22	1.64	0.62
6:C:3706:ASP:HB2	6:C:3715:TYR:HB3	1.81	0.62
6:C:3913:ILE:O	6:C:3917:ILE:HG12	2.00	0.62
2:B:55:ALA:HB3	2:B:117:VAL:HG13	1.81	0.62
2:B:280:ASP:OD2	2:B:283:THR:OG1	2.12	0.62
6:C:98:GLN:HG2	6:C:143:LEU:HD11	1.82	0.62
6:C:570:LYS:HA	6:C:573:LEU:HD12	1.81	0.62
6:C:873:VAL:O	6:C:876:SER:N	2.29	0.62
6:C:988:VAL:O	6:C:991:LEU:HB3	2.00	0.62
6:C:1722:PHE:HE1	6:C:1866:GLN:HB2	1.63	0.62
6:C:2035:THR:O	6:C:2039:GLU:N	2.25	0.62
6:C:2254:ARG:HG3	6:C:2255:LEU:N	2.14	0.62
6:C:3183:ILE:HD12	6:C:3242:MET:HG3	1.81	0.62
6:C:4042:GLN:O	6:C:4045:CYS:HB3	2.00	0.62
1:A:40:PHE:CE1	1:A:70:VAL:HB	2.35	0.62
1:A:426:GLN:HE21	1:A:428:THR:H	1.47	0.62
6:C:317:GLU:HA	6:C:320:LEU:HD23	1.81	0.62
6:C:624:ILE:HG22	6:C:659:ARG:HH11	1.65	0.62
6:C:1029:CYS:O	6:C:1033:ILE:N	2.24	0.62
6:C:1058:SER:O	6:C:1062:ARG:HG2	1.99	0.62
6:C:2142:ILE:HA	6:C:2145:PHE:CZ	2.34	0.62
6:C:2933:ILE:C	6:C:2937:ASP:HB2	2.20	0.62
6:C:2954:GLN:HA	6:C:2957:LEU:HD12	1.81	0.62
6:C:3084:GLN:HA	6:C:3086:LEU:HB3	1.82	0.62
6:C:3173:MET:HG3	6:C:3174:ASP:H	1.64	0.62
1:A:147:LEU:HB3	1:A:189:LYS:HZ2	1.63	0.62
1:A:374:LEU:HD23	1:A:375:VAL:HG23	1.81	0.62
1:A:418:GLU:HG3	1:A:430:PRO:HD3	1.81	0.62
2:B:229:GLU:OE1	2:B:232:ARG:HD2	2.00	0.62
2:B:395:TYR:HB3	2:B:421:TYR:CZ	2.34	0.62
4:D:-15:DT:H2'	4:D:-14:DA:C4	2.35	0.62
6:C:104:SER:O	6:C:108:LYS:HG3	2.00	0.62
6:C:385:TYR:N	6:C:388:LEU:HB3	2.14	0.62
6:C:1103:ALA:O	6:C:1107:TYR:CB	2.47	0.62
6:C:1640:GLU:OE2	6:C:1648:LEU:HB2	2.00	0.62
6:C:1957:ASN:O	6:C:1960:LYS:HG2	2.00	0.62
6:C:2485:ARG:HA	6:C:2499:PHE:CE1	2.34	0.62
6:C:2787:HIS:HE2	6:C:2790:LEU:HG	1.65	0.62
6:C:2994:TRP:O	6:C:2998:SER:CB	2.48	0.62
6:C:3466:PRO:O	6:C:3470:GLN:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3554:PHE:O	6:C:3557:ARG:HB3	2.00	0.62
6:C:3771:MET:O	6:C:3774:ILE:N	2.30	0.62
6:C:4062:ASP:O	6:C:4066:LEU:CB	2.48	0.62
2:B:378:SER:HA	2:B:381:ILE:HD12	1.81	0.61
4:D:3:DT:C2	4:D:4:DA:C8	2.87	0.61
6:C:449:TYR:HB2	6:C:454:GLN:NE2	2.07	0.61
6:C:592:GLU:HB3	6:C:601:TRP:HZ2	1.65	0.61
6:C:643:GLU:HB3	6:C:647:TYR:HE2	1.65	0.61
6:C:805:LEU:HD22	6:C:808:GLU:H	1.65	0.61
6:C:1074:LYS:HG3	6:C:1075:ARG:NH1	2.15	0.61
6:C:1095:LEU:O	6:C:1098:GLN:N	2.28	0.61
6:C:1709:GLU:OE1	6:C:1716:GLN:NE2	2.33	0.61
6:C:2165:LEU:HD12	6:C:2168:LEU:HD12	1.82	0.61
6:C:3244:ASP:OD1	6:C:3247:ARG:NH1	2.22	0.61
6:C:3247:ARG:HG3	6:C:3281:CYS:SG	2.39	0.61
6:C:3811:THR:HA	6:C:3929:MET:HG2	1.82	0.61
1:A:189:LYS:HZ3	1:A:193:LEU:HB2	1.65	0.61
1:A:484:GLN:HG3	1:A:487:PHE:CZ	2.36	0.61
1:A:511:VAL:HA	1:A:514:MET:HE3	1.82	0.61
1:A:512:GLU:OE1	1:A:512:GLU:N	2.31	0.61
6:C:710:PHE:HB3	6:C:714:VAL:HG21	1.81	0.61
6:C:994:TRP:CZ3	6:C:2780:LEU:HG	2.35	0.61
6:C:1044:ILE:O	6:C:1048:GLN:HB2	2.00	0.61
6:C:1575:LEU:HD22	6:C:1604:SER:HB3	1.81	0.61
6:C:1683:LYS:HB3	6:C:1687:HIS:CE1	2.35	0.61
6:C:2271:SER:O	6:C:2274:ILE:HG13	1.99	0.61
6:C:2920:VAL:HA	6:C:2923:TRP:CD1	2.35	0.61
6:C:3929:MET:C	6:C:3937:VAL:HA	2.20	0.61
6:C:4068:HIS:CG	6:C:4069:GLU:H	2.18	0.61
1:A:316:THR:OG1	2:B:279:VAL:O	2.18	0.61
1:A:392:LYS:HZ3	2:B:458:ILE:HG22	1.64	0.61
2:B:377:LEU:O	2:B:380:LEU:HG	2.01	0.61
5:E:35:DC:H1'	5:E:36:DA:H5'	1.83	0.61
5:E:37:DT:H2''	5:E:38:DA:N7	2.16	0.61
6:C:652:GLU:HG2	6:C:717:LYS:NZ	2.16	0.61
6:C:769:GLY:O	6:C:772:ALA:N	2.32	0.61
6:C:1407:LYS:HZ1	6:C:1463:LEU:HD12	1.65	0.61
6:C:2503:LYS:HA	6:C:2506:LEU:HD12	1.82	0.61
6:C:4078:VAL:O	6:C:4082:ARG:NH1	2.34	0.61
2:B:297:LEU:HD12	2:B:303:THR:HG22	1.82	0.61
2:B:509:GLN:HB2	2:B:511:HIS:HE1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:11:DC:N4	5:E:25:DG:O6	2.33	0.61
5:E:38:DA:H2"	5:E:39:DA:N7	2.16	0.61
6:C:66:LEU:HG	6:C:66:LEU:O	2.00	0.61
6:C:107:ILE:HA	6:C:110:THR:HB	1.82	0.61
6:C:997:ASN:HA	6:C:1042:LYS:HD3	1.82	0.61
6:C:2065:ARG:HG3	6:C:2125:TRP:CD1	2.35	0.61
6:C:2077:HIS:NE2	6:C:2087:GLU:OE2	2.28	0.61
6:C:2375:ALA:O	6:C:2377:ARG:N	2.33	0.61
6:C:2864:GLN:O	6:C:2865:HIS:CG	2.53	0.61
6:C:3122:HIS:HB2	6:C:3126:LEU:HD12	1.82	0.61
6:C:3274:VAL:HA	6:C:3277:VAL:HG22	1.83	0.61
6:C:3465:PHE:HB3	6:C:3483:MET:SD	2.40	0.61
1:A:36:ASP:HA	1:A:161:MET:HB2	1.83	0.61
6:C:69:VAL:O	6:C:73:LEU:HG	2.00	0.61
6:C:906:PHE:N	6:C:2807:GLN:OE1	2.34	0.61
6:C:1755:SER:HB3	6:C:1863:PHE:HD1	1.61	0.61
6:C:2313:LYS:O	6:C:2316:TYR:HD2	1.83	0.61
6:C:2397:CYS:HA	6:C:2401:VAL:CG2	2.30	0.61
6:C:2435:CYS:O	6:C:2439:ILE:HG22	2.00	0.61
6:C:3901:ARG:NH2	6:C:3972:LEU:HG	2.16	0.61
1:A:218:ARG:NH1	1:A:222:SER:O	2.33	0.61
2:B:532:LYS:HE2	2:B:537:PHE:CE2	2.34	0.61
6:C:407:VAL:O	6:C:411:PRO:HD2	2.01	0.61
6:C:926:THR:O	6:C:929:ALA:N	2.34	0.61
6:C:1034:ARG:NH2	6:C:2776:ARG:HG3	2.16	0.61
6:C:2254:ARG:HD2	6:C:2295:GLN:HG2	1.83	0.61
6:C:2453:GLU:O	6:C:2456:ASN:ND2	2.34	0.61
6:C:3382:PHE:HA	6:C:3385:LEU:HD12	1.82	0.61
6:C:3728:VAL:HA	6:C:3735:PRO:O	2.00	0.61
1:A:147:LEU:HB3	1:A:189:LYS:NZ	2.15	0.61
1:A:240:GLU:HA	1:A:243:LEU:HD12	1.82	0.61
1:A:445:LYS:O	1:A:446:MET:HG3	2.01	0.61
6:C:115:TYR:HA	6:C:131:LEU:HD21	1.81	0.61
6:C:1088:GLU:HG3	6:C:1089:PHE:H	1.65	0.61
6:C:1877:LEU:O	6:C:1920:TYR:OH	2.18	0.61
6:C:2181:GLY:O	6:C:2184:TYR:N	2.34	0.61
6:C:2351:GLN:O	6:C:2354:ASN:N	2.34	0.61
6:C:2816:ILE:O	6:C:2819:GLU:N	2.34	0.61
6:C:2885:GLN:O	6:C:2888:VAL:HG22	2.00	0.61
6:C:2965:TYR:CE2	6:C:3002:TYR:HE2	2.18	0.61
6:C:3438:GLU:HB3	6:C:3442:TYR:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:LYS:HG2	1:A:93:ASP:H	1.65	0.61
1:A:105:LEU:HD21	1:A:119:LEU:HD22	1.80	0.61
1:A:145:GLU:O	1:A:149:VAL:HG23	2.01	0.61
1:A:470:ARG:HG3	2:B:346:CYS:HA	1.82	0.61
1:A:485:GLN:O	1:A:488:ARG:HB2	2.00	0.61
2:B:332:LYS:HE3	2:B:334:LYS:HD3	1.83	0.61
2:B:400:ARG:NH2	5:E:26:DC:N3	2.48	0.61
6:C:660:LEU:O	6:C:664:SER:OG	2.07	0.61
6:C:673:THR:HB	6:C:707:PHE:CE2	2.36	0.61
6:C:1587:VAL:HG22	6:C:1647:ALA:HB2	1.82	0.61
6:C:1649:LEU:HA	6:C:1652:ILE:HD12	1.82	0.61
6:C:2895:GLU:HG3	6:C:2896:ALA:N	2.15	0.61
6:C:2915:ARG:NH1	6:C:2941:GLY:O	2.32	0.61
6:C:3484:THR:N	6:C:3516:HIS:CE1	2.69	0.61
6:C:3923:ARG:CZ	6:C:3941:ASP:HB2	2.31	0.61
1:A:359:HIS:H	1:A:360:HIS:CD2	2.18	0.61
2:B:10:VAL:HB	2:B:54:ILE:HG13	1.83	0.61
6:C:67:VAL:HG22	6:C:110:THR:HG21	1.83	0.61
6:C:387:GLU:O	6:C:390:GLN:HB3	2.00	0.61
6:C:723:ASP:H	6:C:727:ALA:H	1.49	0.61
6:C:1513:GLY:O	6:C:1516:GLU:HB3	2.01	0.61
6:C:3059:GLN:NE2	6:C:3063:THR:HG21	2.16	0.61
6:C:3137:GLU:O	6:C:3140:GLU:HB2	2.01	0.61
1:A:301:ARG:HD3	6:C:164:LYS:H	1.65	0.61
1:A:356:LEU:HB3	1:A:360:HIS:NE2	2.16	0.61
4:D:8:DT:O2	4:D:9:DG:C8	2.54	0.61
5:E:45:DG:H2'	5:E:46:DT:C2	2.36	0.61
6:C:33:GLN:HE22	6:C:2427:ARG:HA	1.65	0.61
6:C:429:GLU:C	6:C:431:TYR:H	2.03	0.61
6:C:532:ARG:HH11	6:C:535:LEU:HD13	1.66	0.61
6:C:1870:LYS:HG2	6:C:1871:MET:HG2	1.82	0.61
6:C:2275:GLN:O	6:C:2279:ILE:HG12	2.00	0.61
6:C:2417:SER:O	6:C:2421:VAL:HB	2.00	0.61
6:C:2526:SER:O	6:C:2531:LEU:N	2.34	0.61
6:C:2869:LEU:O	6:C:2872:ASP:N	2.17	0.61
6:C:3524:ASN:O	6:C:3529:ILE:N	2.34	0.61
6:C:3620:PRO:HD3	6:C:3641:ASP:OD2	2.01	0.61
6:C:3789:ARG:HG2	6:C:3938:ILE:HB	1.82	0.61
6:C:4069:GLU:HB3	6:C:4070:LYS:CG	2.31	0.61
1:A:274:TYR:CB	1:A:367:PHE:O	2.38	0.60
4:D:-9:DC:C6	4:D:-8:DT:H72	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:3:DT:H2'	4:D:4:DA:O4'	2.01	0.60
6:C:142:ARG:NH1	6:C:180:LEU:HD22	2.16	0.60
6:C:563:LEU:HD21	6:C:609:ALA:HA	1.83	0.60
6:C:797:ASP:HB2	6:C:869:ASN:HB2	1.83	0.60
6:C:1108:MET:O	6:C:1111:LEU:HB3	2.01	0.60
6:C:1927:MET:O	6:C:1933:LEU:HD11	2.01	0.60
6:C:2379:MET:O	6:C:2382:VAL:HG22	2.00	0.60
6:C:2929:LEU:O	6:C:2933:ILE:N	2.34	0.60
6:C:3883:LEU:O	6:C:3887:PHE:CB	2.42	0.60
1:A:302:THR:OG1	1:A:311:LEU:HB2	2.02	0.60
6:C:88:PHE:HD1	6:C:91:ILE:HD11	1.66	0.60
6:C:258:PRO:HA	6:C:264:ARG:HG3	1.84	0.60
6:C:442:GLN:HG2	6:C:443:ILE:HA	1.83	0.60
6:C:797:ASP:OD2	6:C:868:LYS:N	2.26	0.60
6:C:852:ARG:NH2	6:C:3114:TYR:HB2	2.08	0.60
6:C:913:ARG:O	6:C:916:GLU:HB2	2.02	0.60
6:C:933:LEU:HD13	6:C:2794:LEU:HB2	1.83	0.60
6:C:967:PRO:C	6:C:971:ARG:HE	2.04	0.60
6:C:989:MET:HA	6:C:992:ILE:HG12	1.83	0.60
6:C:1144:SER:HA	6:C:1147:LYS:HB3	1.83	0.60
6:C:1459:HIS:HE1	6:C:1509:GLN:HG3	1.66	0.60
6:C:2251:ILE:HA	6:C:2253:TYR:CZ	2.36	0.60
6:C:2260:PHE:CD2	6:C:2277:LEU:HD11	2.36	0.60
6:C:3031:TRP:CE2	6:C:3034:PRO:HB3	2.36	0.60
6:C:3595:GLU:HB2	6:C:3606:ILE:HD11	1.83	0.60
1:A:339:ARG:HH11	1:A:405:ASN:HD22	1.49	0.60
1:A:353:LEU:HD22	1:A:414:VAL:HG13	1.83	0.60
1:A:442:ASP:HB3	2:B:267:ILE:HG23	1.82	0.60
2:B:361:VAL:HG22	2:B:422:VAL:HG12	1.83	0.60
6:C:671:SER:HB3	6:C:675:ARG:HH12	1.65	0.60
6:C:800:LEU:O	6:C:803:SER:HB2	2.01	0.60
6:C:1064:TYR:O	6:C:1068:LEU:HG	2.01	0.60
6:C:1135:CYS:SG	6:C:1171:TRP:HH2	2.23	0.60
6:C:2559:THR:HG21	6:C:2808:LEU:HD22	1.81	0.60
6:C:3238:MET:O	6:C:3242:MET:HG2	2.01	0.60
6:C:3399:PRO:HA	6:C:3402:SER:HB2	1.83	0.60
1:A:256:LEU:HD11	5:E:38:DA:C2	2.36	0.60
1:A:339:ARG:HD3	1:A:405:ASN:ND2	2.16	0.60
1:A:380:THR:O	1:A:383:SER:OG	2.12	0.60
6:C:1425:ALA:O	6:C:1429:GLU:CB	2.49	0.60
6:C:2887:PRO:HG3	6:C:2922:ARG:HE	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2969:ALA:HB1	6:C:2995:GLU:OE2	2.02	0.60
6:C:3632:PHE:HZ	6:C:3680:LEU:H	1.47	0.60
6:C:3761:ASP:HA	6:C:3764:VAL:CG2	2.32	0.60
6:C:4079:ALA:HA	6:C:4082:ARG:HH11	1.65	0.60
1:A:74:LYS:HA	1:A:77:SER:OG	2.00	0.60
1:A:470:ARG:NH2	1:A:472:THR:HA	2.17	0.60
6:C:69:VAL:O	6:C:72:SER:OG	2.15	0.60
6:C:131:LEU:HD23	6:C:134:LEU:HD12	1.82	0.60
6:C:322:GLN:HA	6:C:325:ASN:ND2	2.16	0.60
6:C:439:VAL:HG13	6:C:442:GLN:OE1	2.01	0.60
6:C:1059:LEU:O	6:C:1063:LEU:HG	2.02	0.60
6:C:2239:LYS:O	6:C:2242:VAL:HB	2.02	0.60
6:C:2295:GLN:HB3	6:C:2299:TYR:HE2	1.66	0.60
6:C:2395:THR:HA	6:C:2432:GLN:HE21	1.67	0.60
6:C:2480:ILE:HD12	6:C:2483:ASN:HB2	1.82	0.60
6:C:2884:LEU:HD23	6:C:2886:GLN:HB3	1.82	0.60
6:C:2916:LEU:HD12	6:C:2919:ASP:HB2	1.83	0.60
6:C:2935:GLU:HG3	6:C:2953:THR:HG22	1.83	0.60
6:C:3004:HIS:CE1	6:C:3043:TYR:HD1	2.19	0.60
6:C:3151:LEU:HG	6:C:3155:VAL:HB	1.83	0.60
6:C:3298:LEU:HD12	6:C:3301:LEU:HG	1.83	0.60
6:C:3354:ASP:HB3	6:C:3358:ARG:HH22	1.65	0.60
6:C:3462:ARG:NH1	6:C:3463:LEU:HD21	2.17	0.60
6:C:3610:TYR:CZ	6:C:3652:LEU:HA	2.37	0.60
6:C:4011:PHE:HA	6:C:4015:ASN:OD1	2.01	0.60
1:A:130:ARG:O	1:A:134:MET:HB2	1.99	0.60
1:A:493:LEU:HA	1:A:496:ASP:OD1	2.02	0.60
5:E:33:DA:H2'	5:E:34:DC:C6	2.37	0.60
6:C:98:GLN:HG2	6:C:143:LEU:CD1	2.31	0.60
6:C:640:GLU:O	6:C:643:GLU:N	2.34	0.60
6:C:2156:VAL:HG23	6:C:2160:TYR:OH	2.02	0.60
6:C:2524:PHE:HA	6:C:2527:HIS:ND1	2.17	0.60
6:C:3050:LYS:HG3	6:C:3051:LEU:N	2.17	0.60
6:C:3184:THR:OG1	6:C:3185:ASN:N	2.35	0.60
6:C:3486:GLU:O	6:C:3490:VAL:N	2.33	0.60
6:C:3534:ILE:HG23	6:C:3796:MET:HG2	1.81	0.60
6:C:4033:VAL:O	6:C:4036:LYS:HE3	2.02	0.60
1:A:410:PHE:CZ	2:B:516:LEU:HA	2.32	0.60
6:C:789:TYR:O	6:C:793:LEU:N	2.34	0.60
6:C:867:ASN:HD22	6:C:868:LYS:NZ	2.00	0.60
6:C:929:ALA:HA	6:C:932:GLU:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:957:PRO:HA	6:C:960:GLN:OE1	2.02	0.60
6:C:970:LEU:HB3	6:C:981:ARG:HG3	1.82	0.60
6:C:1501:PRO:O	6:C:1505:LEU:HB2	2.01	0.60
6:C:2231:PHE:O	6:C:2234:ASN:ND2	2.33	0.60
6:C:2340:SER:HA	6:C:2343:GLU:CD	2.22	0.60
6:C:2844:LEU:HD13	6:C:2876:VAL:HG12	1.84	0.60
6:C:2922:ARG:HD2	6:C:2930:TYR:CD1	2.36	0.60
6:C:3048:LYS:HB2	6:C:3052:LEU:HD13	1.83	0.60
6:C:3764:VAL:HG12	6:C:3768:PHE:CE2	2.37	0.60
1:A:445:LYS:CE	2:B:243:HIS:HA	2.32	0.60
2:B:247:TRP:CZ3	2:B:249:CYS:HB3	2.35	0.60
2:B:265:LYS:HZ2	5:E:28:DA:P	2.23	0.60
2:B:339:CYS:N	2:B:396:ALA:HB3	2.17	0.60
6:C:848:LEU:HA	6:C:851:ILE:HG12	1.83	0.60
6:C:2462:VAL:CG2	6:C:2470:ARG:HD3	2.30	0.60
6:C:2963:SER:O	6:C:2966:SER:N	2.35	0.60
6:C:3106:GLY:O	6:C:3109:SER:HB3	2.02	0.60
6:C:3159:ARG:HE	6:C:3162:ASN:CG	2.04	0.60
6:C:3701:ILE:HG13	6:C:3719:ILE:H	1.64	0.60
1:A:48:MET:HE2	1:A:172:GLU:HB2	1.84	0.60
1:A:127:GLY:O	1:A:131:PHE:HB2	2.02	0.60
2:B:338:LYS:HB3	2:B:398:ASP:HA	1.82	0.60
2:B:491:PHE:HD1	2:B:494:LEU:HD12	1.67	0.60
4:D:-6:DT:H2'	4:D:-5:DT:N1	2.17	0.60
6:C:346:TYR:HA	6:C:349:ILE:HG13	1.84	0.60
6:C:535:LEU:O	6:C:539:GLN:HG2	2.01	0.60
6:C:936:SER:HB3	6:C:2791:ILE:HG12	1.83	0.60
6:C:952:GLY:O	6:C:956:PRO:HD3	2.01	0.60
6:C:959:TYR:HA	6:C:962:TYR:HB3	1.83	0.60
6:C:965:THR:OG1	6:C:966:PHE:N	2.33	0.60
6:C:1090:ARG:HH12	6:C:1100:VAL:HG11	1.65	0.60
6:C:2036:LEU:O	6:C:2040:MET:HG2	2.02	0.60
6:C:2139:PRO:O	6:C:2142:ILE:HB	2.02	0.60
6:C:2425:ARG:HH22	6:C:2456:ASN:HB2	1.66	0.60
6:C:2499:PHE:O	6:C:2503:LYS:HG3	2.02	0.60
6:C:3350:GLU:OE1	6:C:3350:GLU:N	2.20	0.60
6:C:3533:PHE:CE1	6:C:3562:LEU:HB2	2.36	0.60
1:A:42:VAL:HA	1:A:169:PHE:HB2	1.82	0.60
6:C:397:LEU:O	6:C:400:THR:N	2.25	0.60
6:C:867:ASN:HD22	6:C:868:LYS:HZ2	1.50	0.60
6:C:922:SER:O	6:C:925:GLN:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1220:LEU:HD12	6:C:1271:ILE:HG21	1.84	0.60
6:C:1221:ILE:HA	6:C:1224:PHE:HD2	1.66	0.60
6:C:2325:LEU:O	6:C:2329:TYR:N	2.19	0.60
6:C:2470:ARG:HB3	6:C:2474:TYR:CE2	2.36	0.60
6:C:2951:GLN:OE1	6:C:2972:TYR:OH	2.18	0.60
6:C:3534:ILE:HG23	6:C:3796:MET:HA	1.84	0.60
6:C:3612:ARG:O	6:C:3616:ALA:CB	2.50	0.60
6:C:3924:HIS:O	6:C:3962:ARG:NH2	2.35	0.60
1:A:318:ARG:NH2	1:A:331:LYS:HD2	2.17	0.59
1:A:319:SER:OG	1:A:327:ILE:O	2.21	0.59
6:C:645:TRP:O	6:C:648:SER:N	2.35	0.59
6:C:756:PHE:HA	6:C:773:LEU:HD22	1.84	0.59
6:C:763:THR:HB	6:C:766:ALA:HB3	1.82	0.59
6:C:776:TRP:CH2	6:C:780:ILE:HG21	2.37	0.59
6:C:1426:GLN:HE21	6:C:1430:GLU:CD	2.05	0.59
6:C:1879:VAL:HA	6:C:1882:SER:HB3	1.82	0.59
6:C:1967:PHE:O	6:C:1971:PRO:HD2	2.01	0.59
6:C:2793:PRO:O	6:C:2797:VAL:HG22	2.01	0.59
6:C:2865:HIS:HB2	6:C:2868:LEU:HD13	1.83	0.59
6:C:3496:ILE:HA	6:C:3499:ILE:HG23	1.84	0.59
6:C:3568:ILE:O	6:C:3571:PHE:HB3	2.02	0.59
1:A:368:VAL:HG23	1:A:434:LEU:HD21	1.83	0.59
2:B:246:HIS:CD2	2:B:262:ALA:HB2	2.37	0.59
6:C:67:VAL:O	6:C:71:LYS:HB3	2.02	0.59
6:C:557:SER:HA	6:C:616:LYS:NZ	2.16	0.59
6:C:928:VAL:O	6:C:932:GLU:HG3	2.02	0.59
6:C:1760:GLU:OE2	6:C:1893:GLU:HG2	2.03	0.59
6:C:1871:MET:HG3	6:C:1885:PRO:HG3	1.84	0.59
6:C:2828:GLU:HA	6:C:2831:ASN:ND2	2.17	0.59
1:A:63:SER:HB3	1:A:169:PHE:CD2	2.37	0.59
1:A:326:GLN:OE1	1:A:327:ILE:N	2.34	0.59
1:A:524:GLU:O	1:A:528:LEU:HG	2.02	0.59
2:B:38:ILE:O	2:B:41:PHE:HB3	2.03	0.59
2:B:148:ASP:O	2:B:152:HIS:ND1	2.35	0.59
4:D:15:DG:N2	5:E:19:DC:O3'	2.28	0.59
6:C:33:GLN:OE1	6:C:2427:ARG:HA	2.02	0.59
6:C:50:VAL:O	6:C:54:GLN:HB3	2.02	0.59
6:C:187:SER:O	6:C:190:ILE:N	2.35	0.59
6:C:389:ILE:HG21	6:C:431:TYR:HD1	1.67	0.59
6:C:659:ARG:HD2	6:C:663:ILE:HG23	1.83	0.59
6:C:1444:ASP:O	6:C:1447:ARG:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1457:GLN:N	6:C:1460:ARG:HH21	2.01	0.59
6:C:2022:PRO:HG2	6:C:2045:PHE:CD2	2.37	0.59
6:C:2929:LEU:O	6:C:2932:SER:OG	2.11	0.59
6:C:2999:LEU:HA	6:C:3002:TYR:CE2	2.37	0.59
6:C:3007:GLU:HG2	6:C:3046:ARG:NH2	2.17	0.59
1:A:303:PHE:CD2	2:B:292:GLU:HG2	2.37	0.59
1:A:362:LEU:HG	1:A:363:ARG:H	1.67	0.59
2:B:76:ASN:ND2	2:B:103:GLN:O	2.36	0.59
2:B:154:LEU:HA	2:B:157:CYS:HB2	1.84	0.59
2:B:187:GLY:H	2:B:232:ARG:HG2	1.66	0.59
4:D:-7:DA:H2'	4:D:-6:DT:C6	2.37	0.59
4:D:10:DG:H22	5:E:25:DG:N2	2.00	0.59
6:C:545:LEU:HA	6:C:548:GLU:OE1	2.01	0.59
6:C:572:VAL:O	6:C:576:VAL:CB	2.36	0.59
6:C:1032:CYS:HA	6:C:1035:GLU:OE1	2.01	0.59
6:C:2134:GLY:O	6:C:2137:ILE:HB	2.02	0.59
6:C:2211:LEU:HA	6:C:2214:ARG:NH2	2.13	0.59
6:C:2851:PHE:HA	6:C:2854:PHE:CG	2.37	0.59
6:C:2918:PRO:HA	6:C:2921:LEU:HG	1.83	0.59
6:C:3027:LEU:O	6:C:3040:TYR:OH	2.21	0.59
6:C:3114:TYR:CZ	6:C:3128:LYS:HB3	2.37	0.59
1:A:264:ASN:OD1	1:A:267:ILE:N	2.35	0.59
6:C:973:ALA:HB1	6:C:980:THR:HB	1.85	0.59
6:C:2065:ARG:HG3	6:C:2125:TRP:NE1	2.17	0.59
6:C:2419:ASP:N	6:C:2419:ASP:OD1	2.35	0.59
6:C:2420:PHE:CE1	6:C:2424:MET:HB2	2.37	0.59
6:C:2949:THR:O	6:C:2953:THR:HG23	2.02	0.59
6:C:3294:SER:OG	6:C:3295:GLU:OE2	2.16	0.59
6:C:3858:MET:O	6:C:3864:ARG:NH2	2.35	0.59
1:A:239:LEU:O	1:A:242:LEU:HB2	2.03	0.59
1:A:278:GLN:OE1	4:D:1:DG:H5''	2.02	0.59
1:A:330:GLU:HG3	1:A:332:GLU:H	1.68	0.59
5:E:40:DT:H2'	5:E:41:DA:C8	2.37	0.59
6:C:223:CYS:O	6:C:227:LEU:CB	2.50	0.59
6:C:415:GLN:CG	6:C:460:ALA:HA	2.33	0.59
6:C:612:LEU:HA	6:C:615:ALA:HB2	1.84	0.59
6:C:1063:LEU:HD23	6:C:1066:LEU:HD23	1.85	0.59
6:C:1073:PHE:O	6:C:1076:LEU:HG	2.02	0.59
6:C:2251:ILE:HG23	6:C:2253:TYR:CD2	2.36	0.59
6:C:2313:LYS:O	6:C:2315:VAL:N	2.36	0.59
6:C:2965:TYR:CZ	6:C:2969:ALA:HB3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3125:ARG:O	6:C:3129:LEU:HG	2.02	0.59
6:C:3809:THR:CA	6:C:3930:VAL:O	2.21	0.59
1:A:75:ILE:HG23	2:B:316:TYR:CZ	2.38	0.59
2:B:151:ILE:HD11	2:B:211:VAL:HA	1.85	0.59
2:B:151:ILE:HD13	2:B:214:SER:HB2	1.85	0.59
5:E:21:DA:H2''	5:E:22:DA:O4'	2.02	0.59
6:C:302:ALA:O	6:C:309:LYS:NZ	2.27	0.59
6:C:530:LEU:O	6:C:534:LEU:HG	2.02	0.59
6:C:1000:LYS:HE3	6:C:1052:SER:HB3	1.84	0.59
6:C:1142:HIS:CG	6:C:1145:LEU:HD12	2.38	0.59
6:C:1412:LYS:O	6:C:1416:GLU:N	2.36	0.59
6:C:1945:TYR:CE2	6:C:1994:VAL:HG21	2.37	0.59
6:C:2109:GLY:O	6:C:2112:GLN:N	2.36	0.59
6:C:2256:ILE:HA	6:C:2259:LYS:HD2	1.84	0.59
6:C:2257:PHE:O	6:C:2261:SER:N	2.19	0.59
6:C:2434:VAL:O	6:C:2438:ILE:N	2.23	0.59
6:C:3244:ASP:O	6:C:3247:ARG:HB3	2.02	0.59
6:C:3721:GLY:O	6:C:3741:ARG:N	2.32	0.59
6:C:3770:VAL:O	6:C:3773:GLY:N	2.36	0.59
6:C:3872:ARG:NH2	6:C:3873:LYS:HE3	2.14	0.59
6:C:4100:GLU:HG3	6:C:4101:GLU:H	1.68	0.59
1:A:145:GLU:HA	1:A:148:TRP:CZ2	2.37	0.59
1:A:259:LEU:HD13	1:A:273:ILE:HG13	1.85	0.59
1:A:264:ASN:HD21	1:A:266:ASP:HB2	1.68	0.59
1:A:286:ILE:HB	2:B:314:PHE:HA	1.85	0.59
2:B:129:LYS:HG2	2:B:240:ILE:HA	1.85	0.59
6:C:349:ILE:HG23	6:C:391:ARG:HH12	1.68	0.59
6:C:742:GLU:HB3	6:C:783:HIS:CG	2.38	0.59
6:C:1441:ALA:O	6:C:1445:ARG:CB	2.50	0.59
6:C:1990:PHE:O	6:C:1993:GLU:HB3	2.03	0.59
6:C:2004:TYR:O	6:C:2007:ILE:HG12	2.03	0.59
6:C:2045:PHE:O	6:C:2049:VAL:CB	2.42	0.59
6:C:2181:GLY:HA2	6:C:2184:TYR:CD2	2.38	0.59
6:C:3585:PHE:HB3	6:C:3670:MET:HE2	1.84	0.59
1:A:95:ASN:HA	1:A:104:VAL:HG23	1.85	0.59
1:A:241:ASP:N	1:A:241:ASP:OD1	2.34	0.59
1:A:259:LEU:HD22	1:A:400:TYR:CE1	2.38	0.59
1:A:348:MET:HG3	1:A:399:ARG:HG3	1.85	0.59
1:A:441:ASP:CG	2:B:270:GLU:HB2	2.23	0.59
1:A:479:GLU:HA	2:B:426:PHE:CG	2.37	0.59
2:B:58:LEU:HB2	2:B:78:THR:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:266:SER:HB3	2:B:363:LYS:H	1.66	0.59
6:C:330:ASN:HB2	6:C:334:HIS:CD2	2.33	0.59
6:C:486:GLY:O	6:C:490:ILE:N	2.29	0.59
6:C:854:ARG:HG2	6:C:857:GLN:OE1	2.03	0.59
6:C:1434:VAL:HG21	6:C:1448:LEU:HD11	1.85	0.59
6:C:2130:HIS:H	6:C:2140:LEU:HD13	1.67	0.59
6:C:2492:ASP:O	6:C:2495:SER:OG	2.20	0.59
6:C:2874:ALA:HB1	6:C:2921:LEU:HB3	1.85	0.59
6:C:3327:ASN:O	6:C:3330:LEU:HB3	2.02	0.59
6:C:3759:ARG:O	6:C:3762:GLN:HB3	2.02	0.59
6:C:3791:TYR:CE2	6:C:3942:PHE:HE2	2.21	0.59
1:A:128:GLN:HE21	1:A:132:GLN:NE2	1.99	0.59
1:A:321:ILE:O	2:B:274:LYS:NZ	2.35	0.59
1:A:472:THR:O	2:B:350:GLN:NE2	2.36	0.59
6:C:546:ALA:HB1	6:C:633:ILE:HD13	1.84	0.59
6:C:985:GLU:HA	6:C:988:VAL:HG22	1.85	0.59
6:C:1280:GLN:HE22	6:C:1357:LYS:HB3	1.67	0.59
6:C:2022:PRO:HG2	6:C:2045:PHE:HD2	1.68	0.59
6:C:2234:ASN:HA	6:C:2237:ILE:HD12	1.85	0.59
6:C:3070:HIS:O	6:C:3073:LEU:N	2.36	0.59
6:C:3757:ASP:HB2	6:C:3800:LEU:N	2.17	0.59
6:C:3880:ALA:HB2	6:C:3966:GLN:HA	1.83	0.59
1:A:144:SER:O	1:A:147:LEU:HB2	2.03	0.58
1:A:388:LYS:O	1:A:392:LYS:N	2.31	0.58
2:B:264:TYR:HE2	2:B:365:PHE:HB3	1.67	0.58
6:C:558:GLU:O	6:C:561:ASN:HB2	2.01	0.58
6:C:561:ASN:HB3	6:C:565:TYR:CE2	2.37	0.58
6:C:620:PHE:HA	6:C:623:PHE:HB3	1.85	0.58
6:C:930:ALA:O	6:C:934:LEU:HD13	2.03	0.58
6:C:1180:GLN:HB2	6:C:1213:LYS:N	2.18	0.58
6:C:1259:LEU:CD2	6:C:1340:ARG:HG3	2.33	0.58
6:C:3994:ASP:HB3	6:C:3997:LEU:HD11	1.85	0.58
1:A:126:GLN:HB2	1:A:130:ARG:HH21	1.68	0.58
1:A:232:HIS:CG	1:A:423:GLN:HB2	2.37	0.58
1:A:257:SER:HA	5:E:38:DA:P	2.43	0.58
4:D:-15:DT:H2'	4:D:-14:DA:C5	2.38	0.58
4:D:-10:DA:H2'	4:D:-9:DC:C4	2.38	0.58
6:C:104:SER:OG	6:C:105:VAL:N	2.36	0.58
6:C:189:MET:HA	6:C:192:ASN:ND2	2.17	0.58
6:C:335:LYS:O	6:C:338:LEU:HB3	2.03	0.58
6:C:396:PHE:CD2	6:C:397:LEU:HD12	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1065:SER:HA	6:C:1068:LEU:HD12	1.84	0.58
6:C:1572:LEU:HD23	6:C:1575:LEU:HD12	1.85	0.58
6:C:1956:PHE:HB2	6:C:1960:LYS:HD3	1.85	0.58
6:C:2381:ALA:C	6:C:2385:LEU:HD13	2.24	0.58
6:C:2816:ILE:HG23	6:C:2817:LEU:H	1.68	0.58
6:C:2936:TYR:CE1	6:C:2946:GLU:HA	2.36	0.58
6:C:2989:ALA:HB1	6:C:2993:PHE:CE1	2.38	0.58
6:C:3759:ARG:NH1	6:C:4008:GLU:OE2	2.31	0.58
6:C:3815:LEU:HA	6:C:3818:ASN:ND2	2.18	0.58
6:C:3817:LEU:HB3	6:C:3829:LEU:HD21	1.85	0.58
2:B:454:VAL:H	2:B:532:LYS:HZ2	1.50	0.58
2:B:455:ASP:O	2:B:458:ILE:N	2.36	0.58
2:B:491:PHE:HA	2:B:494:LEU:HD12	1.85	0.58
4:D:-2:DT:H2''	4:D:-1:DA:H5'	1.85	0.58
5:E:38:DA:H2''	5:E:39:DA:C5	2.38	0.58
6:C:241:ASP:N	6:C:241:ASP:OD1	2.32	0.58
6:C:956:PRO:O	6:C:960:GLN:CB	2.50	0.58
6:C:1049:GLN:O	6:C:1056:THR:OG1	2.16	0.58
6:C:1630:ASP:HA	6:C:1633:TRP:CD2	2.38	0.58
6:C:2012:ARG:NH2	6:C:2013:GLU:OE2	2.36	0.58
6:C:2989:ALA:HB1	6:C:2993:PHE:CZ	2.38	0.58
6:C:3197:LEU:HD13	6:C:3227:ILE:HG22	1.85	0.58
6:C:3254:LEU:O	6:C:3257:LYS:HB3	2.03	0.58
6:C:3502:MET:SD	6:C:3510:GLN:NE2	2.76	0.58
6:C:4113:ASP:O	6:C:4116:ILE:HG22	2.03	0.58
2:B:62:ASP:HA	2:B:103:GLN:HB3	1.86	0.58
6:C:665:GLY:HA2	6:C:670:LEU:HD11	1.84	0.58
6:C:1050:GLU:OE2	6:C:1057:LYS:NZ	2.33	0.58
6:C:1630:ASP:HA	6:C:1633:TRP:CE3	2.37	0.58
6:C:2260:PHE:CD1	6:C:2273:GLY:HA3	2.38	0.58
6:C:2524:PHE:HA	6:C:2527:HIS:CG	2.39	0.58
6:C:2536:LEU:O	6:C:2539:LEU:HB3	2.03	0.58
6:C:2995:GLU:O	6:C:2998:SER:HB2	2.03	0.58
1:A:264:ASN:ND2	1:A:266:ASP:HB2	2.19	0.58
1:A:380:THR:HG21	2:B:446:PRO:HG3	1.85	0.58
2:B:35:LYS:O	2:B:39:THR:CB	2.52	0.58
2:B:251:LEU:HB2	2:B:340:PHE:HD2	1.68	0.58
5:E:45:DG:H2'	5:E:46:DT:C4	2.39	0.58
6:C:385:TYR:O	6:C:389:ILE:HG12	2.03	0.58
6:C:396:PHE:HZ	6:C:1814:PHE:HB2	1.67	0.58
6:C:444:ASP:HA	6:C:446:PHE:CE2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:481:THR:O	6:C:484:HIS:HB2	2.03	0.58
6:C:1012:ALA:O	6:C:1015:ASP:N	2.29	0.58
6:C:1217:VAL:HG13	6:C:1271:ILE:HG22	1.85	0.58
6:C:1329:ARG:HD3	6:C:1332:TYR:HD2	1.67	0.58
6:C:1477:HIS:O	6:C:1480:GLY:N	2.36	0.58
6:C:1557:GLU:HG2	6:C:1561:SER:HB2	1.85	0.58
6:C:1942:CYS:HB2	6:C:1990:PHE:CE1	2.39	0.58
6:C:2182:ILE:HD12	6:C:2182:ILE:H	1.67	0.58
6:C:3590:ASN:O	6:C:3594:ALA:CB	2.51	0.58
6:C:3877:LYS:HE3	6:C:3965:ARG:HH21	1.67	0.58
6:C:3897:PHE:HD2	6:C:3898:LEU:HG	1.69	0.58
1:A:117:LEU:HD12	1:A:494:ALA:O	2.03	0.58
1:A:128:GLN:O	1:A:132:GLN:HG3	2.04	0.58
1:A:179:ASP:OD2	1:A:182:LYS:HG3	2.02	0.58
1:A:192:ASP:O	1:A:196:THR:N	2.37	0.58
1:A:484:GLN:HE21	1:A:488:ARG:NH2	1.99	0.58
2:B:287:GLU:OE1	2:B:287:GLU:N	2.33	0.58
2:B:423:GLN:OE1	2:B:424:LEU:N	2.36	0.58
2:B:454:VAL:O	2:B:457:LEU:HB3	2.04	0.58
4:D:-4:DA:H5"	4:D:-3:DT:C7	2.33	0.58
5:E:44:DA:C2	5:E:45:DG:C4	2.92	0.58
6:C:194:GLU:OE2	6:C:233:ASN:HB2	2.02	0.58
6:C:639:ALA:O	6:C:642:PHE:HB3	2.04	0.58
6:C:1330:TYR:O	6:C:1333:SER:OG	2.21	0.58
6:C:2028:LEU:HA	6:C:2030:TYR:CE2	2.38	0.58
6:C:3249:GLN:HB3	6:C:3251:ASN:OD1	2.04	0.58
1:A:272:GLY:N	1:A:371:GLU:HG3	2.19	0.58
1:A:325:ARG:HE	2:B:88:PHE:HB3	1.69	0.58
1:A:416:GLN:HA	1:A:433:GLN:HE22	1.68	0.58
2:B:520:ALA:HA	2:B:523:THR:HB	1.86	0.58
6:C:139:ARG:HA	6:C:142:ARG:HE	1.67	0.58
6:C:433:PRO:O	6:C:437:HIS:ND1	2.36	0.58
6:C:749:VAL:HG23	6:C:750:PRO:HD3	1.85	0.58
6:C:968:VAL:N	6:C:971:ARG:HH21	2.01	0.58
6:C:1633:TRP:O	6:C:1694:THR:OG1	2.18	0.58
6:C:1981:LEU:HD12	6:C:1984:LEU:HD23	1.85	0.58
6:C:2245:TRP:CB	6:C:2246:LYS:HG3	2.33	0.58
6:C:2432:GLN:O	6:C:2434:VAL:N	2.36	0.58
6:C:3329:LEU:HB2	6:C:3389:VAL:HG23	1.86	0.58
6:C:3493:TRP:HH2	6:C:3707:GLY:HA3	1.69	0.58
6:C:3611:GLU:O	6:C:3615:ALA:HB2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3746:ARG:HB3	6:C:3748:HIS:NE2	2.18	0.58
6:C:4005:PHE:CD2	6:C:4006:VAL:HG13	2.37	0.58
2:B:513:TRP:CD2	2:B:516:LEU:HD12	2.39	0.58
2:B:523:THR:HG22	2:B:527:GLN:NE2	2.18	0.58
5:E:43:DT:O5'	5:E:43:DT:H6	1.86	0.58
6:C:153:PHE:HB3	6:C:157:TYR:CZ	2.37	0.58
6:C:970:LEU:HB3	6:C:981:ARG:NH1	2.19	0.58
6:C:1562:LEU:O	6:C:1565:GLU:HB3	2.04	0.58
6:C:1636:ASP:OD1	6:C:1637:SER:N	2.37	0.58
6:C:1718:ILE:HG21	6:C:1746:PHE:HB3	1.84	0.58
6:C:2056:SER:HA	6:C:2060:ARG:NH1	2.18	0.58
6:C:2348:GLN:HG2	6:C:2352:HIS:NE2	2.19	0.58
6:C:2931:ARG:O	6:C:2935:GLU:CB	2.41	0.58
6:C:3469:LEU:HD11	6:C:3512:VAL:HG11	1.86	0.58
6:C:3558:ILE:HG22	6:C:3562:LEU:HD23	1.85	0.58
6:C:3630:ARG:O	6:C:3634:GLN:N	2.31	0.58
6:C:3663:THR:O	6:C:3667:LEU:N	2.28	0.58
6:C:3808:ASN:HB3	6:C:3932:MET:H	1.68	0.58
6:C:3869:THR:HG22	6:C:3872:ARG:NH2	2.19	0.58
6:C:3982:SER:O	6:C:3985:VAL:HB	2.04	0.58
6:C:4077:TYR:HA	6:C:4080:VAL:HB	1.86	0.58
2:B:118:ILE:HG21	2:B:157:CYS:HB3	1.85	0.58
2:B:335:SER:HB3	2:B:403:PRO:HB3	1.84	0.58
2:B:405:VAL:HG23	2:B:426:PHE:CZ	2.38	0.58
6:C:221:ALA:O	6:C:225:LYS:CB	2.37	0.58
6:C:625:ASN:OD1	6:C:626:LEU:N	2.35	0.58
6:C:872:THR:O	6:C:875:SER:HB2	2.03	0.58
6:C:2348:GLN:O	6:C:2351:GLN:HB2	2.04	0.58
6:C:2378:PHE:O	6:C:2382:VAL:HG13	2.04	0.58
6:C:3378:TYR:CD2	6:C:3379:GLN:HG3	2.39	0.58
6:C:3435:ASP:O	6:C:3439:LEU:HB2	2.02	0.58
6:C:3702:PRO:O	6:C:3719:ILE:HB	2.03	0.58
6:C:3915:HIS:HA	6:C:3918:LEU:O	2.04	0.58
1:A:43:ASP:HA	1:A:88:TYR:CZ	2.39	0.58
1:A:348:MET:HG2	1:A:398:CYS:HA	1.86	0.58
1:A:365:SER:HB2	1:A:434:LEU:O	2.03	0.58
2:B:80:HIS:CD2	2:B:81:ARG:HB2	2.38	0.58
2:B:453:ALA:HB3	2:B:532:LYS:NZ	2.19	0.58
6:C:362:ALA:HB2	6:C:408:TYR:CD1	2.39	0.58
6:C:385:TYR:H	6:C:388:LEU:CB	2.17	0.58
6:C:532:ARG:O	6:C:535:LEU:HB2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:579:LEU:HB2	6:C:601:TRP:CH2	2.39	0.58
6:C:617:PRO:HG2	6:C:655:LEU:HG	1.86	0.58
6:C:678:LYS:HA	6:C:681:LYS:HB3	1.86	0.58
6:C:864:GLY:O	6:C:867:ASN:ND2	2.20	0.58
6:C:871:LEU:O	6:C:875:SER:OG	2.11	0.58
6:C:934:LEU:HD23	6:C:969:LEU:HD12	1.85	0.58
6:C:1387:GLY:CA	6:C:1392:MET:H	2.16	0.58
6:C:2146:LEU:HA	6:C:2149:LEU:HG	1.85	0.58
6:C:3194:GLU:HA	6:C:3197:LEU:HG	1.86	0.58
6:C:3763:ARG:NH1	6:C:4012:ASP:OD2	2.37	0.58
6:C:3794:VAL:HG12	6:C:3794:VAL:O	2.02	0.58
1:A:43:ASP:OD1	1:A:44:ALA:N	2.37	0.57
1:A:296:VAL:HG11	2:B:295:TYR:HD1	1.69	0.57
1:A:334:THR:HA	1:A:337:LEU:HD23	1.85	0.57
2:B:234:LEU:HB3	2:B:237:PHE:CD2	2.39	0.57
2:B:320:ILE:HG22	2:B:322:PRO:HD3	1.86	0.57
2:B:452:ASN:O	2:B:455:ASP:HB2	2.04	0.57
6:C:396:PHE:HD2	6:C:397:LEU:HD12	1.68	0.57
6:C:965:THR:O	6:C:968:VAL:HG12	2.04	0.57
6:C:1108:MET:HA	6:C:1111:LEU:HD23	1.86	0.57
6:C:1160:SER:O	6:C:1162:SER:OG	2.17	0.57
6:C:1231:GLN:HE21	6:C:1264:LEU:HD11	1.67	0.57
6:C:1332:TYR:O	6:C:1336:THR:OG1	2.12	0.57
6:C:1407:LYS:NZ	6:C:1463:LEU:HD12	2.18	0.57
6:C:2950:LYS:O	6:C:2953:THR:OG1	2.15	0.57
6:C:3156:PRO:HA	6:C:3159:ARG:HB3	1.86	0.57
1:A:301:ARG:CB	6:C:163:LYS:HD2	2.34	0.57
1:A:474:ARG:HG3	1:A:476:ASP:H	1.68	0.57
1:A:480:ASN:ND2	2:B:404:GLN:OE1	2.37	0.57
2:B:202:LYS:O	2:B:205:LEU:HB3	2.03	0.57
6:C:283:SER:O	6:C:286:LEU:N	2.37	0.57
6:C:748:TYR:HB3	6:C:751:ALA:HB2	1.87	0.57
6:C:788:TYR:C	6:C:792:ILE:HG12	2.24	0.57
6:C:1010:LEU:HB2	6:C:1028:PHE:CE1	2.39	0.57
6:C:1061:LYS:O	6:C:1065:SER:OG	2.21	0.57
6:C:1215:GLU:OE2	6:C:1271:ILE:HA	2.04	0.57
6:C:2153:THR:OG1	6:C:2154:GLU:N	2.37	0.57
6:C:2433:LYS:HD3	6:C:2461:PHE:HD1	1.69	0.57
6:C:3007:GLU:CD	6:C:3049:LEU:HB2	2.23	0.57
6:C:3008:TRP:O	6:C:3050:LYS:HD3	2.03	0.57
6:C:3156:PRO:HB3	6:C:3160:LEU:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3516:HIS:O	6:C:3519:GLU:HB2	2.04	0.57
6:C:3721:GLY:C	6:C:3741:ARG:HB2	2.24	0.57
6:C:3750:PHE:HA	6:C:3805:TRP:HB3	1.86	0.57
1:A:70:VAL:HG13	1:A:74:LYS:HZ1	1.70	0.57
1:A:310:LEU:HD21	6:C:163:LYS:HD3	1.85	0.57
2:B:35:LYS:O	2:B:39:THR:OG1	2.20	0.57
6:C:528:VAL:HG13	6:C:531:PHE:CD2	2.39	0.57
6:C:737:PRO:O	6:C:741:ILE:HG23	2.04	0.57
6:C:1161:ALA:N	6:C:1165:LEU:HD11	2.18	0.57
6:C:1326:GLU:O	6:C:1330:TYR:HB2	2.05	0.57
6:C:1340:ARG:O	6:C:1343:GLU:N	2.37	0.57
6:C:1980:ASN:O	6:C:1984:LEU:CB	2.51	0.57
6:C:2400:VAL:O	6:C:2403:CYS:N	2.37	0.57
6:C:2428:ASP:OD1	6:C:2429:ASP:N	2.38	0.57
6:C:2833:THR:O	6:C:2837:LEU:HG	2.05	0.57
6:C:3469:LEU:HA	6:C:3472:ILE:O	2.04	0.57
6:C:3486:GLU:O	6:C:3490:VAL:HG22	2.05	0.57
6:C:3706:ASP:CB	6:C:3715:TYR:HB3	2.34	0.57
6:C:3723:ASP:H	6:C:3739:ILE:HB	1.69	0.57
1:A:258:ARG:HH12	5:E:38:DA:H3'	1.70	0.57
1:A:338:LYS:HD2	1:A:406:ILE:HA	1.86	0.57
1:A:406:ILE:HG23	1:A:407:PRO:C	2.25	0.57
2:B:490:LEU:O	2:B:493:CYS:N	2.36	0.57
5:E:30:DA:H2'	5:E:31:DA:C8	2.39	0.57
6:C:98:GLN:HE21	6:C:143:LEU:HD22	1.69	0.57
6:C:657:SER:O	6:C:661:PRO:HD2	2.04	0.57
6:C:708:VAL:O	6:C:710:PHE:N	2.37	0.57
6:C:751:ALA:O	6:C:755:ALA:HB3	2.04	0.57
6:C:908:ASP:OD1	6:C:910:PHE:N	2.27	0.57
6:C:2002:LYS:HA	6:C:2005:ILE:HG12	1.86	0.57
6:C:2144:LEU:HA	6:C:2147:ALA:HB3	1.85	0.57
6:C:2361:ILE:CD1	6:C:2365:ASN:HD21	2.17	0.57
6:C:2890:ILE:CG1	6:C:2921:LEU:HD21	2.35	0.57
6:C:2952:ILE:HD13	6:C:2972:TYR:HE2	1.68	0.57
6:C:3459:ASN:HB3	6:C:3462:ARG:HE	1.70	0.57
6:C:3535:ILE:HG13	6:C:3536:SER:H	1.69	0.57
1:A:368:VAL:H	1:A:434:LEU:CD1	2.17	0.57
2:B:234:LEU:HD21	2:B:483:PRO:HG3	1.86	0.57
2:B:435:PHE:CZ	2:B:438:LEU:HG	2.40	0.57
2:B:454:VAL:O	2:B:458:ILE:HG13	2.05	0.57
6:C:568:PHE:HE1	6:C:604:PRO:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:922:SER:O	6:C:926:THR:N	2.36	0.57
6:C:1049:GLN:O	6:C:1052:SER:OG	2.18	0.57
6:C:1133:HIS:O	6:C:1136:ARG:NH1	2.37	0.57
6:C:1424:THR:O	6:C:1428:ILE:HG22	2.05	0.57
6:C:2146:LEU:HD22	6:C:2149:LEU:HD11	1.86	0.57
6:C:3167:ARG:NH2	6:C:3186:ARG:HD2	2.20	0.57
6:C:3289:ARG:HD2	6:C:3291:GLN:HB3	1.85	0.57
6:C:3321:LEU:O	6:C:3324:ARG:N	2.37	0.57
6:C:3529:ILE:HD12	6:C:3530:VAL:H	1.69	0.57
6:C:3550:LYS:HZ2	6:C:3554:PHE:HE2	1.50	0.57
6:C:3726:VAL:HA	6:C:3737:ARG:O	2.04	0.57
6:C:3962:ARG:HD2	6:C:4124:TRP:HB3	1.86	0.57
6:C:3980:MET:O	6:C:3983:ILE:HB	2.05	0.57
6:C:4063:GLU:O	6:C:4066:LEU:HB3	2.04	0.57
1:A:351:LYS:HZ2	1:A:355:LEU:HD13	1.70	0.57
2:B:348:SER:HB2	2:B:388:ASP:HB2	1.86	0.57
2:B:454:VAL:N	2:B:532:LYS:HZ2	2.02	0.57
6:C:224:LEU:HA	6:C:227:LEU:HB3	1.87	0.57
6:C:437:HIS:HB3	6:C:1812:LEU:HB3	1.86	0.57
6:C:1029:CYS:HB3	6:C:1085:ILE:HD11	1.86	0.57
6:C:1076:LEU:HB3	6:C:1127:CYS:SG	2.44	0.57
6:C:1276:VAL:HG13	6:C:1357:LYS:HD3	1.85	0.57
6:C:1593:VAL:HA	6:C:1596:VAL:HB	1.85	0.57
6:C:1861:SER:O	6:C:1865:THR:CB	2.53	0.57
6:C:2401:VAL:O	6:C:2405:VAL:HG13	2.04	0.57
6:C:2470:ARG:HD2	6:C:2474:TYR:CE2	2.39	0.57
6:C:2840:PHE:O	6:C:2843:PHE:HB3	2.05	0.57
6:C:3629:ARG:NH1	6:C:3638:LYS:HZ1	1.99	0.57
6:C:3812:LEU:HD23	6:C:3937:VAL:HG11	1.86	0.57
6:C:3921:GLY:HA3	6:C:3944:HIS:HD2	1.70	0.57
6:C:4077:TYR:CD1	6:C:4080:VAL:HB	2.40	0.57
1:A:41:LEU:HD11	1:A:88:TYR:HD2	1.69	0.57
1:A:95:ASN:CG	1:A:98:ASN:H	2.06	0.57
1:A:388:LYS:HA	1:A:391:GLU:HB2	1.85	0.57
2:B:11:VAL:O	2:B:133:GLU:HG2	2.05	0.57
2:B:15:ASP:HB2	2:B:59:PHE:CE1	2.40	0.57
2:B:332:LYS:HE3	2:B:334:LYS:HZ2	1.70	0.57
6:C:297:LEU:O	6:C:300:TRP:HB3	2.04	0.57
6:C:392:CYS:HA	6:C:413:PHE:CZ	2.39	0.57
6:C:568:PHE:HD1	6:C:610:ALA:HA	1.68	0.57
6:C:602:MET:SD	6:C:725:LEU:HD12	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1007:VAL:O	6:C:1011:GLU:HG2	2.05	0.57
6:C:1156:GLY:O	6:C:1160:SER:N	2.38	0.57
6:C:1579:VAL:C	6:C:1581:GLU:H	2.08	0.57
6:C:1759:LEU:HG	6:C:1892:LYS:HA	1.87	0.57
6:C:2171:LEU:O	6:C:2175:GLU:N	2.38	0.57
6:C:2240:THR:O	6:C:2243:GLU:N	2.37	0.57
6:C:2398:LEU:O	6:C:2402:LEU:CB	2.52	0.57
6:C:2791:ILE:HG22	6:C:2795:GLN:HE21	1.70	0.57
6:C:2861:ILE:O	6:C:2892:LEU:HD11	2.04	0.57
6:C:3069:MET:HA	6:C:3072:GLU:OE1	2.03	0.57
6:C:3758:LEU:HA	6:C:3760:GLN:NE2	2.20	0.57
6:C:4017:GLU:CB	6:C:4031:ILE:HB	2.34	0.57
1:A:416:GLN:HE21	2:B:354:ARG:HD3	1.69	0.57
2:B:17:GLY:HA2	2:B:102:SER:HA	1.87	0.57
2:B:490:LEU:HD12	2:B:493:CYS:HB2	1.85	0.57
5:E:28:DA:H8	5:E:28:DA:H5"	1.68	0.57
6:C:456:VAL:HG13	6:C:459:ARG:HH21	1.68	0.57
6:C:1038:LYS:HA	6:C:1041:ILE:HB	1.87	0.57
6:C:1362:ASP:HB2	6:C:1364:CYS:SG	2.44	0.57
6:C:1364:CYS:HA	6:C:1367:HIS:ND1	2.20	0.57
6:C:1985:LYS:NZ	6:C:2036:LEU:HB2	2.19	0.57
6:C:2163:HIS:O	6:C:2167:PRO:HD3	2.05	0.57
6:C:2955:SER:O	6:C:2959:ALA:N	2.38	0.57
6:C:3239:LYS:HG2	6:C:3262:LEU:HD13	1.87	0.57
6:C:3357:ARG:HD3	6:C:3380:ARG:HH12	1.70	0.57
6:C:3433:VAL:O	6:C:3436:SER:OG	2.19	0.57
6:C:3450:MET:HA	6:C:3453:ALA:HB3	1.86	0.57
6:C:3492:CYS:SG	6:C:3529:ILE:HB	2.44	0.57
6:C:3493:TRP:HZ2	6:C:3709:GLY:H	1.53	0.57
6:C:3529:ILE:HA	6:C:3715:TYR:OH	2.05	0.57
1:A:534:TYR:OH	2:B:260:ARG:N	2.37	0.57
2:B:404:GLN:NE2	5:E:30:DA:OP1	2.37	0.57
5:E:24:DG:C6	5:E:25:DG:C5	2.93	0.57
6:C:16:GLN:HG3	6:C:17:GLU:N	2.19	0.57
6:C:157:TYR:O	6:C:160:LEU:N	2.38	0.57
6:C:557:SER:HB3	6:C:645:TRP:CZ2	2.40	0.57
6:C:598:PRO:HB2	6:C:1022:ASP:HB2	1.87	0.57
6:C:653:LEU:O	6:C:656:GLN:HG2	2.04	0.57
6:C:809:THR:HG21	6:C:2803:ILE:HG21	1.85	0.57
6:C:882:SER:OG	6:C:3890:MET:O	2.12	0.57
6:C:1418:HIS:HA	6:C:1421:GLU:CD	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1744:LYS:HD3	6:C:1883:ARG:HH21	1.70	0.57
6:C:2525:TRP:O	6:C:2529:THR:OG1	2.12	0.57
6:C:3765:GLU:O	6:C:3768:PHE:N	2.38	0.57
6:C:3923:ARG:HB2	6:C:3962:ARG:HH22	1.70	0.57
6:C:4106:CYS:O	6:C:4108:MET:N	2.38	0.57
1:A:36:ASP:OD1	1:A:162:SER:N	2.38	0.57
1:A:256:LEU:CD2	5:E:37:DT:H1'	2.35	0.57
6:C:23:ASP:HB3	6:C:27:ALA:HB2	1.87	0.57
6:C:665:GLY:HA3	6:C:739:ASN:ND2	2.20	0.57
6:C:994:TRP:C	6:C:998:ASN:HD22	2.07	0.57
6:C:1001:PHE:O	6:C:1004:GLN:HB3	2.05	0.57
6:C:1356:TRP:NE1	6:C:1409:SER:OG	2.38	0.57
6:C:1441:ALA:O	6:C:1445:ARG:HB3	2.05	0.57
6:C:2248:CYS:SG	6:C:2249:LEU:N	2.74	0.57
6:C:2316:TYR:CD1	6:C:2317:ALA:N	2.70	0.57
6:C:2328:ARG:HH22	6:C:2370:SER:HA	1.68	0.57
6:C:2385:LEU:HB3	6:C:2389:PHE:CE2	2.39	0.57
6:C:2386:LEU:HD11	6:C:2401:VAL:HA	1.87	0.57
6:C:2494:ASP:HA	6:C:2497:GLU:CD	2.26	0.57
6:C:2884:LEU:C	6:C:2886:GLN:H	2.08	0.57
6:C:2925:GLU:HB3	6:C:2930:TYR:CG	2.40	0.57
6:C:3011:LEU:O	6:C:3015:SER:CB	2.53	0.57
6:C:3121:LEU:O	6:C:3125:ARG:HG2	2.05	0.57
6:C:3493:TRP:HE1	6:C:3709:GLY:C	2.08	0.57
6:C:3612:ARG:HA	6:C:3615:ALA:HB3	1.85	0.57
2:B:452:ASN:N	2:B:452:ASN:OD1	2.37	0.56
4:D:11:DC:N3	5:E:25:DG:C2	2.72	0.56
6:C:444:ASP:HB3	6:C:530:LEU:HG	1.85	0.56
6:C:796:LEU:HD22	6:C:800:LEU:HD11	1.86	0.56
6:C:1233:SER:O	6:C:1291:LEU:HA	2.04	0.56
6:C:1411:TYR:CE1	6:C:1414:ILE:HG13	2.40	0.56
6:C:1603:GLN:HG3	6:C:1606:ARG:NH2	2.16	0.56
6:C:2052:TYR:O	6:C:2056:SER:N	2.38	0.56
6:C:2404:ARG:O	6:C:2407:GLY:CA	2.53	0.56
6:C:2472:GLN:HE21	6:C:2476:ILE:HG23	1.70	0.56
6:C:2811:SER:O	6:C:2815:GLY:N	2.35	0.56
6:C:3019:ILE:HG12	6:C:3020:ASP:N	2.20	0.56
6:C:3156:PRO:CA	6:C:3160:LEU:H	2.18	0.56
6:C:3931:ALA:O	6:C:3935:GLY:CA	2.53	0.56
1:A:310:LEU:HD11	6:C:163:LYS:HD3	1.87	0.56
1:A:353:LEU:HG	1:A:393:GLU:C	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:56:LEU:HD21	2:B:58:LEU:HD21	1.87	0.56
2:B:187:GLY:H	2:B:232:ARG:HA	1.69	0.56
4:D:-5:DT:H4'	6:C:259:GLN:HE21	1.70	0.56
4:D:-4:DA:H4'	6:C:169:THR:HG22	1.86	0.56
6:C:442:GLN:CD	6:C:443:ILE:HG12	2.25	0.56
6:C:1876:ILE:HG12	6:C:1911:LEU:HD13	1.86	0.56
6:C:2122:LEU:HA	6:C:2127:LYS:HB2	1.87	0.56
6:C:2560:ASN:OD1	6:C:2800:ARG:HG3	2.05	0.56
6:C:2572:TYR:HE1	6:C:2790:LEU:HD23	1.70	0.56
6:C:2781:PRO:O	6:C:2785:ILE:N	2.38	0.56
6:C:2891:ARG:NH2	6:C:3897:PHE:HB3	2.20	0.56
6:C:4013:TRP:O	6:C:4017:GLU:N	2.21	0.56
6:C:4030:GLU:O	6:C:4034:ALA:CB	2.52	0.56
6:C:4077:TYR:O	6:C:4080:VAL:N	2.38	0.56
1:A:40:PHE:CZ	1:A:70:VAL:HB	2.40	0.56
1:A:158:GLN:OE1	1:A:158:GLN:N	2.34	0.56
1:A:189:LYS:NZ	1:A:193:LEU:HB2	2.20	0.56
1:A:244:ARG:HA	1:A:247:ARG:HG2	1.88	0.56
1:A:389:CYS:HA	1:A:394:VAL:HG12	1.86	0.56
1:A:487:PHE:O	1:A:491:GLU:HG3	2.04	0.56
1:A:514:MET:SD	2:B:254:GLY:HA2	2.46	0.56
2:B:88:PHE:HA	2:B:91:LEU:HG	1.87	0.56
2:B:107:PHE:CZ	2:B:138:LEU:HA	2.39	0.56
2:B:353:ARG:HH11	2:B:356:PHE:HD2	1.51	0.56
2:B:513:TRP:HA	2:B:516:LEU:HB2	1.86	0.56
6:C:35:ILE:HG21	6:C:85:ILE:HG13	1.87	0.56
6:C:106:GLU:O	6:C:110:THR:OG1	2.16	0.56
6:C:113:SER:HA	6:C:116:THR:HB	1.87	0.56
6:C:295:GLU:HA	6:C:298:LEU:HD12	1.85	0.56
6:C:300:TRP:O	6:C:304:THR:OG1	2.15	0.56
6:C:349:ILE:O	6:C:352:VAL:HG12	2.06	0.56
6:C:620:PHE:HD1	6:C:623:PHE:CD2	2.23	0.56
6:C:776:TRP:CD2	6:C:780:ILE:HG13	2.40	0.56
6:C:1034:ARG:HH12	6:C:1038:LYS:HB2	1.71	0.56
6:C:1119:LYS:HB3	6:C:1124:ILE:HG21	1.87	0.56
6:C:1227:GLY:HA2	6:C:1287:GLN:NE2	2.20	0.56
6:C:1394:HIS:ND1	6:C:1397:ASP:OD2	2.38	0.56
6:C:1700:THR:HG21	6:C:1733:THR:H	1.69	0.56
6:C:2088:LEU:HD21	6:C:2145:PHE:CD2	2.39	0.56
6:C:2147:ALA:O	6:C:2151:ILE:HG13	2.05	0.56
6:C:2171:LEU:HD12	6:C:2174:SER:OG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2254:ARG:HH11	6:C:2295:GLN:NE2	2.03	0.56
6:C:2336:ILE:HG13	6:C:2337:LEU:N	2.21	0.56
6:C:2350:LYS:HA	6:C:2353:GLN:OE1	2.04	0.56
6:C:2534:ASN:HD22	6:C:2537:ASP:HB2	1.70	0.56
6:C:2942:ILE:HG22	6:C:2945:SER:H	1.69	0.56
6:C:3324:ARG:O	6:C:3327:ASN:HB3	2.04	0.56
6:C:3377:LEU:HA	6:C:3381:ALA:HB2	1.87	0.56
6:C:4089:ILE:HB	6:C:4093:GLU:OE2	2.05	0.56
1:A:91:GLU:OE1	1:A:137:HIS:N	2.33	0.56
1:A:299:LYS:O	2:B:294:VAL:HB	2.05	0.56
1:A:400:TYR:CD2	1:A:402:PRO:HD3	2.41	0.56
1:A:456:PRO:HA	1:A:459:VAL:HG12	1.86	0.56
4:D:10:DG:H22	5:E:25:DG:H22	1.49	0.56
6:C:847:SER:HB2	6:C:850:GLU:CG	2.35	0.56
6:C:908:ASP:HA	6:C:910:PHE:CE2	2.40	0.56
6:C:1038:LYS:HA	6:C:1041:ILE:HD12	1.88	0.56
6:C:1579:VAL:O	6:C:1581:GLU:HG3	2.05	0.56
6:C:3031:TRP:CD1	6:C:3037:GLN:HB2	2.40	0.56
6:C:3459:ASN:O	6:C:3462:ARG:HG2	2.04	0.56
6:C:3493:TRP:CH2	6:C:3707:GLY:HA3	2.41	0.56
6:C:3758:LEU:HG	6:C:3760:GLN:NE2	2.19	0.56
6:C:3864:ARG:HD2	6:C:4115:ASN:OD1	2.06	0.56
1:A:194:ARG:NH2	1:A:218:ARG:O	2.39	0.56
1:A:351:LYS:HE3	1:A:355:LEU:HB3	1.86	0.56
1:A:378:SER:O	1:A:382:PHE:CB	2.33	0.56
1:A:471:PHE:HE1	1:A:473:TYR:HD1	1.51	0.56
2:B:341:SER:C	2:B:393:VAL:HG13	2.25	0.56
5:E:50:DT:H2'	5:E:50:DT:OP2	2.06	0.56
6:C:886:TRP:HE1	6:C:889:GLU:HB2	1.70	0.56
6:C:923:ASP:OD1	6:C:924:ARG:N	2.36	0.56
6:C:929:ALA:HB1	6:C:2798:ALA:HB1	1.88	0.56
6:C:1162:SER:O	6:C:1165:LEU:HG	2.05	0.56
6:C:1275:THR:HA	6:C:1279:LEU:HD12	1.88	0.56
6:C:1366:THR:OG1	6:C:1370:ARG:NH2	2.38	0.56
6:C:1472:SER:HA	6:C:1476:HIS:HD2	1.70	0.56
6:C:1956:PHE:O	6:C:1959:LEU:HB3	2.05	0.56
6:C:2349:LEU:O	6:C:2352:HIS:N	2.38	0.56
6:C:3603:LYS:HA	6:C:3655:LYS:HD3	1.87	0.56
6:C:4076:ASP:O	6:C:4080:VAL:HG23	2.06	0.56
1:A:362:LEU:CG	1:A:363:ARG:H	2.18	0.56
2:B:206:GLU:HA	2:B:209:LYS:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:357:MET:SD	2:B:425:PRO:HA	2.46	0.56
6:C:33:GLN:NE2	6:C:2427:ARG:HA	2.19	0.56
6:C:298:LEU:O	6:C:302:ALA:CB	2.54	0.56
6:C:348:ILE:O	6:C:357:LYS:NZ	2.38	0.56
6:C:914:VAL:HA	6:C:917:LEU:HD12	1.85	0.56
6:C:2380:ASN:O	6:C:2383:PHE:HB3	2.06	0.56
6:C:2434:VAL:HG12	6:C:2438:ILE:HD11	1.87	0.56
6:C:2474:TYR:CD1	6:C:2477:LEU:HD12	2.41	0.56
6:C:2890:ILE:CD1	6:C:2921:LEU:HD11	2.35	0.56
6:C:2972:TYR:HA	6:C:2980:ASP:OD2	2.06	0.56
6:C:4055:ASN:ND2	6:C:4107:LEU:HD11	2.20	0.56
1:A:94:LYS:NZ	1:A:105:LEU:O	2.36	0.56
1:A:254:ARG:H	2:B:431:ARG:NH2	2.00	0.56
1:A:282:LYS:HE2	1:A:284:PRO:HA	1.87	0.56
1:A:368:VAL:HB	1:A:434:LEU:HD11	1.87	0.56
5:E:33:DA:C2	5:E:34:DC:C2	2.94	0.56
6:C:249:PHE:HD1	6:C:268:PRO:HB3	1.71	0.56
6:C:275:PHE:CZ	6:C:280:SER:HA	2.40	0.56
6:C:417:VAL:O	6:C:420:VAL:HB	2.05	0.56
6:C:700:LYS:O	6:C:703:CYS:HB2	2.06	0.56
6:C:756:PHE:N	6:C:756:PHE:CD1	2.73	0.56
6:C:993:HIS:HA	6:C:1038:LYS:HG2	1.88	0.56
6:C:1079:SER:O	6:C:1082:PHE:HB3	2.06	0.56
6:C:1151:ARG:O	6:C:1154:PRO:HD2	2.05	0.56
6:C:1554:SER:HB3	6:C:1558:TYR:CZ	2.40	0.56
6:C:3075:LYS:HE2	6:C:3077:ILE:HD11	1.88	0.56
6:C:3444:ALA:HB2	6:C:3475:TYR:CE2	2.41	0.56
6:C:3510:GLN:HE22	6:C:3517:SER:HB2	1.71	0.56
6:C:3950:THR:O	6:C:3956:PRO:HA	2.05	0.56
6:C:4018:GLN:O	6:C:4021:LEU:HB3	2.05	0.56
6:C:4127:TRP:CE3	6:C:4128:MET:HB2	2.41	0.56
1:A:488:ARG:NH1	1:A:491:GLU:OE2	2.39	0.56
2:B:360:GLN:N	2:B:360:GLN:OE1	2.36	0.56
2:B:426:PHE:O	2:B:429:ASP:N	2.25	0.56
6:C:655:LEU:O	6:C:658:THR:OG1	2.13	0.56
6:C:724:GLU:HA	6:C:728:SER:OG	2.06	0.56
6:C:738:HIS:HA	6:C:741:ILE:CG1	2.18	0.56
6:C:850:GLU:HA	6:C:853:ILE:HD12	1.87	0.56
6:C:1126:GLN:O	6:C:1130:ALA:HB2	2.06	0.56
6:C:1356:TRP:CZ2	6:C:1410:PRO:HA	2.41	0.56
6:C:1970:LYS:NZ	6:C:2044:ASP:OD1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2808:LEU:HB2	6:C:2809:PHE:HD1	1.71	0.56
6:C:2851:PHE:CD1	6:C:2852:PRO:HD3	2.40	0.56
6:C:2865:HIS:N	6:C:2868:LEU:HD22	2.20	0.56
6:C:3031:TRP:HE3	6:C:3032:SER:C	2.08	0.56
6:C:3130:GLN:HE22	6:C:3177:ASN:HB3	1.71	0.56
6:C:3172:LYS:HD2	6:C:3179:TRP:CD1	2.40	0.56
6:C:3815:LEU:HD23	6:C:3818:ASN:ND2	2.21	0.56
6:C:3951:GLN:NE2	6:C:4064:LEU:O	2.39	0.56
2:B:302:GLU:OE2	6:C:116:THR:HG23	2.05	0.56
4:D:16:DG:H1	5:E:19:DC:H2'	1.70	0.56
6:C:661:PRO:HB3	6:C:737:PRO:HD3	1.88	0.56
6:C:913:ARG:HA	6:C:916:GLU:OE1	2.06	0.56
6:C:973:ALA:HB3	6:C:981:ARG:HB2	1.86	0.56
6:C:1605:PHE:O	6:C:1609:ALA:N	2.38	0.56
6:C:1752:LEU:HD23	6:C:1892:LYS:HE2	1.87	0.56
6:C:1800:SER:O	6:C:1803:GLU:HG2	2.05	0.56
6:C:2327:LEU:HD12	6:C:2330:VAL:HG12	1.88	0.56
6:C:2397:CYS:HB3	6:C:2432:GLN:NE2	2.20	0.56
6:C:3572:ILE:HA	6:C:3575:LEU:HB3	1.88	0.56
1:A:142:SER:O	1:A:146:VAL:HG23	2.05	0.56
1:A:150:CYS:HA	1:A:153:LEU:HD12	1.88	0.56
1:A:367:PHE:CE2	1:A:369:TYR:HB2	2.40	0.56
1:A:419:GLU:N	1:A:426:GLN:HE22	2.01	0.56
2:B:446:PRO:HG2	2:B:451:LEU:HD11	1.87	0.56
4:D:3:DT:H3'	4:D:4:DA:C8	2.34	0.56
6:C:185:HIS:N	6:C:186:PRO:HD2	2.21	0.56
6:C:340:TYR:O	6:C:344:GLN:HG2	2.05	0.56
6:C:608:PRO:O	6:C:612:LEU:HB2	2.06	0.56
6:C:1103:ALA:O	6:C:1107:TYR:HB3	2.06	0.56
6:C:1133:HIS:HB3	6:C:1136:ARG:NH1	2.19	0.56
6:C:1330:TYR:O	6:C:1334:LYS:HD3	2.05	0.56
6:C:2114:GLU:HB2	6:C:2120:ARG:CZ	2.36	0.56
6:C:2142:ILE:HA	6:C:2145:PHE:CE1	2.41	0.56
6:C:2829:LYS:O	6:C:2833:THR:HG23	2.06	0.56
6:C:3247:ARG:NE	6:C:3324:ARG:HH22	2.04	0.56
6:C:3821:SER:HB3	6:C:3826:ALA:O	2.05	0.56
1:A:404:ARG:CD	5:E:36:DA:H3'	2.36	0.55
2:B:138:LEU:HB3	2:B:204:GLY:HA3	1.87	0.55
2:B:520:ALA:O	2:B:524:THR:OG1	2.18	0.55
4:D:-7:DA:H2'	4:D:-6:DT:H6	1.71	0.55
6:C:442:GLN:HE22	6:C:461:ILE:CG1	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:752:LEU:HB3	6:C:756:PHE:CE2	2.41	0.55
6:C:928:VAL:HG23	6:C:929:ALA:N	2.21	0.55
6:C:1039:TRP:CH2	6:C:1049:GLN:HA	2.41	0.55
6:C:1514:LEU:HD21	6:C:1581:GLU:HB3	1.88	0.55
6:C:1632:TRP:CD1	6:C:1635:LYS:HD2	2.41	0.55
6:C:1687:HIS:O	6:C:1691:GLN:HB3	2.06	0.55
6:C:2242:VAL:CA	6:C:2245:TRP:HD1	2.18	0.55
6:C:2260:PHE:CG	6:C:2277:LEU:HD11	2.41	0.55
6:C:2286:PRO:O	6:C:2333:ARG:NH1	2.30	0.55
6:C:2375:ALA:HA	6:C:2378:PHE:CZ	2.41	0.55
6:C:2510:LEU:O	6:C:2519:LEU:HD13	2.06	0.55
6:C:2851:PHE:CG	6:C:2852:PRO:HD3	2.41	0.55
6:C:3025:PRO:HA	6:C:3067:LYS:HD2	1.88	0.55
6:C:3062:LEU:HA	6:C:3065:ILE:HG22	1.88	0.55
6:C:3296:GLN:HA	6:C:3299:THR:HB	1.87	0.55
6:C:3791:TYR:HB3	6:C:3940:ILE:HG13	1.87	0.55
6:C:4103:GLN:O	6:C:4107:LEU:HB2	2.07	0.55
1:A:445:LYS:HD2	1:A:446:MET:H	1.71	0.55
2:B:149:ILE:HA	2:B:152:HIS:CE1	2.42	0.55
6:C:277:LEU:O	6:C:281:GLN:HG3	2.06	0.55
6:C:333:MET:O	6:C:337:LYS:HB2	2.05	0.55
6:C:649:PHE:HZ	6:C:717:LYS:HZ1	1.54	0.55
6:C:794:PRO:HA	6:C:869:ASN:CG	2.25	0.55
6:C:1000:LYS:HE3	6:C:1052:SER:CB	2.36	0.55
6:C:1229:CYS:HB3	6:C:1287:GLN:HG2	1.87	0.55
6:C:1682:THR:O	6:C:1685:ASP:HB2	2.05	0.55
6:C:2047:THR:O	6:C:2050:GLN:HG2	2.06	0.55
6:C:2886:GLN:CD	6:C:2925:GLU:HG2	2.27	0.55
6:C:2966:SER:O	6:C:2970:LYS:HB3	2.04	0.55
6:C:3026:ASP:OD1	6:C:3029:LYS:HD2	2.06	0.55
6:C:3166:ASN:HB3	6:C:3186:ARG:HH12	1.71	0.55
6:C:3721:GLY:N	6:C:3741:ARG:O	2.39	0.55
6:C:4002:MET:CA	6:C:4005:PHE:HB3	2.36	0.55
1:A:115:ARG:HA	1:A:118:GLU:CD	2.27	0.55
1:A:127:GLY:O	1:A:131:PHE:HB3	2.06	0.55
1:A:166:ILE:O	1:A:200:LEU:HA	2.06	0.55
1:A:289:TYR:O	1:A:292:THR:OG1	2.21	0.55
2:B:66:ASN:HD21	2:B:74:TYR:HB3	1.72	0.55
2:B:316:TYR:N	2:B:319:ASP:O	2.36	0.55
5:E:35:DC:C2	5:E:36:DA:C5	2.95	0.55
6:C:625:ASN:HA	6:C:659:ARG:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1976:LEU:HB3	6:C:1981:LEU:HD22	1.88	0.55
6:C:2549:LYS:HG2	6:C:2551:GLU:HB3	1.88	0.55
6:C:3117:ILE:HG12	6:C:3125:ARG:NH2	2.22	0.55
6:C:3538:GLU:N	6:C:3796:MET:O	2.40	0.55
6:C:4015:ASN:O	6:C:4018:GLN:HB3	2.06	0.55
6:C:4087:HIS:HB3	6:C:4090:ARG:HD3	1.88	0.55
1:A:90:THR:CG2	1:A:138:GLY:H	2.19	0.55
1:A:352:PRO:CD	2:B:464:ALA:HB3	2.36	0.55
1:A:427:VAL:O	2:B:354:ARG:NH2	2.39	0.55
6:C:224:LEU:HD21	6:C:271:GLY:HA3	1.87	0.55
6:C:386:VAL:HG22	6:C:431:TYR:OH	2.07	0.55
6:C:569:VAL:HG13	6:C:570:LYS:H	1.70	0.55
6:C:611:ASN:HA	6:C:614:PRO:HG2	1.87	0.55
6:C:763:THR:HB	6:C:766:ALA:H	1.72	0.55
6:C:980:THR:O	6:C:984:TYR:HD2	1.88	0.55
6:C:1296:PHE:O	6:C:1299:GLU:N	2.39	0.55
6:C:1683:LYS:HB3	6:C:1687:HIS:NE2	2.21	0.55
6:C:1904:CYS:SG	6:C:1944:ALA:HB1	2.47	0.55
6:C:1940:TYR:HA	6:C:1943:ALA:HB3	1.88	0.55
6:C:2423:VAL:HG22	6:C:2424:MET:HA	1.89	0.55
6:C:2833:THR:O	6:C:2836:LEU:N	2.39	0.55
6:C:2920:VAL:O	6:C:2923:TRP:HB2	2.07	0.55
6:C:2945:SER:OG	6:C:2991:LYS:HD3	2.07	0.55
6:C:2971:GLN:HA	6:C:2974:GLU:HB3	1.88	0.55
6:C:3326:GLN:NE2	6:C:3389:VAL:O	2.26	0.55
6:C:3760:GLN:HG2	6:C:3761:ASP:H	1.70	0.55
1:A:63:SER:O	1:A:67:ILE:HD12	2.07	0.55
1:A:232:HIS:CD2	1:A:423:GLN:HB2	2.41	0.55
1:A:403:ARG:NE	5:E:36:DA:O3'	2.40	0.55
1:A:418:GLU:OE2	2:B:438:LEU:N	2.40	0.55
6:C:1959:LEU:O	6:C:1963:GLN:HG2	2.07	0.55
6:C:2559:THR:OG1	6:C:2560:ASN:N	2.39	0.55
6:C:2886:GLN:HE21	6:C:2921:LEU:C	2.09	0.55
6:C:3350:GLU:HA	6:C:3373:VAL:N	2.21	0.55
6:C:3466:PRO:HB2	6:C:3470:GLN:NE2	2.21	0.55
6:C:3495:PHE:HE2	6:C:3499:ILE:HA	1.67	0.55
6:C:3632:PHE:CE1	6:C:3682:GLU:HB2	2.42	0.55
6:C:3692:VAL:HA	6:C:3696:ARG:HG2	1.86	0.55
6:C:3988:LEU:O	6:C:3991:PHE:N	2.38	0.55
1:A:58:THR:O	1:A:61:ASP:N	2.39	0.55
1:A:65:GLN:CG	1:A:123:LYS:HE2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:VAL:O	1:A:149:VAL:HB	2.07	0.55
1:A:260:LYS:HA	1:A:270:SER:HA	1.88	0.55
1:A:267:ILE:HG13	2:B:539:LEU:HD21	1.89	0.55
2:B:18:PHE:CD1	2:B:102:SER:HB3	2.42	0.55
2:B:107:PHE:O	2:B:111:LEU:HD13	2.06	0.55
2:B:186:GLY:HA2	2:B:232:ARG:HG2	1.87	0.55
2:B:412:ILE:HA	2:B:417:GLU:CG	2.37	0.55
5:E:23:DT:C4	5:E:24:DG:C5	2.95	0.55
6:C:215:PRO:HG3	6:C:220:LEU:HD11	1.88	0.55
6:C:359:LEU:HD12	6:C:408:TYR:CZ	2.41	0.55
6:C:604:PRO:HB2	6:C:610:ALA:HB2	1.87	0.55
6:C:759:GLY:O	6:C:770:LEU:HD11	2.07	0.55
6:C:988:VAL:HG21	6:C:1031:ARG:NE	2.22	0.55
6:C:1390:GLN:HA	6:C:1393:ALA:HB3	1.89	0.55
6:C:1718:ILE:HG12	6:C:1728:GLU:CD	2.27	0.55
6:C:1876:ILE:O	6:C:1911:LEU:HD13	2.07	0.55
6:C:2343:GLU:O	6:C:2346:ALA:HB3	2.07	0.55
6:C:2472:GLN:OE1	6:C:2475:ASN:ND2	2.29	0.55
6:C:3258:LEU:HA	6:C:3261:GLU:HB3	1.89	0.55
6:C:3454:LEU:HD23	6:C:3454:LEU:O	2.06	0.55
6:C:4055:ASN:OD1	6:C:4058:VAL:N	2.39	0.55
1:A:36:ASP:CG	1:A:162:SER:H	2.10	0.55
1:A:108:LEU:CD1	1:A:156:ASP:HB2	2.37	0.55
1:A:378:SER:HA	1:A:382:PHE:H	1.71	0.55
2:B:400:ARG:NE	4:D:10:DG:N3	2.54	0.55
6:C:260:ILE:O	6:C:263:LYS:N	2.26	0.55
6:C:609:ALA:O	6:C:613:HIS:HB3	2.04	0.55
6:C:1689:LYS:NZ	6:C:1727:ARG:HB3	2.22	0.55
6:C:1924:THR:HA	6:C:1927:MET:HB2	1.89	0.55
6:C:2402:LEU:O	6:C:2405:VAL:HG22	2.07	0.55
6:C:3098:ARG:O	6:C:3102:TYR:HB2	2.07	0.55
6:C:3622:ALA:HB3	6:C:3625:LEU:HB2	1.88	0.55
6:C:3703:GLY:N	6:C:3706:ASP:OD1	2.40	0.55
6:C:3733:ARG:NH1	6:C:3755:GLY:H	2.04	0.55
6:C:3920:ILE:HG23	6:C:4124:TRP:CH2	2.42	0.55
1:A:319:SER:O	2:B:277:THR:N	2.40	0.55
1:A:534:TYR:OH	2:B:250:ARG:HG2	2.06	0.55
2:B:24:ILE:HD12	2:B:30:PRO:HD3	1.88	0.55
6:C:171:LEU:O	6:C:174:VAL:HB	2.07	0.55
6:C:204:LEU:HD12	6:C:223:CYS:HB2	1.88	0.55
6:C:362:ALA:HB2	6:C:408:TYR:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:803:SER:O	6:C:855:VAL:HG21	2.06	0.55
6:C:1524:LEU:HD12	6:C:1563:PHE:HD2	1.72	0.55
6:C:2006:GLU:O	6:C:2008:ARG:HG3	2.06	0.55
6:C:2236:GLU:O	6:C:2240:THR:HG23	2.07	0.55
6:C:2468:THR:HA	6:C:2471:GLU:CD	2.26	0.55
6:C:2792:THR:HA	6:C:2795:GLN:CD	2.27	0.55
6:C:2803:ILE:HG23	6:C:2804:ILE:N	2.21	0.55
6:C:2969:ALA:HA	6:C:2972:TYR:CZ	2.42	0.55
6:C:3387:GLU:O	6:C:3391:ALA:CB	2.55	0.55
6:C:3836:PRO:HB3	6:C:4127:TRP:HZ3	1.70	0.55
6:C:3885:ARG:O	6:C:3888:VAL:HB	2.06	0.55
1:A:142:SER:O	1:A:145:GLU:HB2	2.07	0.55
1:A:256:LEU:HD21	5:E:37:DT:H1'	1.89	0.55
1:A:319:SER:HB3	2:B:277:THR:HB	1.87	0.55
2:B:68:LEU:HB2	2:B:74:TYR:CZ	2.42	0.55
2:B:70:GLY:O	2:B:74:TYR:HD2	1.90	0.55
2:B:461:MET:HA	2:B:522:VAL:HG13	1.89	0.55
6:C:468:LEU:HD13	6:C:476:ARG:HA	1.89	0.55
6:C:495:VAL:HG21	6:C:528:VAL:HG23	1.87	0.55
6:C:788:TYR:O	6:C:792:ILE:HG12	2.06	0.55
6:C:1154:PRO:HA	6:C:1157:PHE:CD2	2.42	0.55
6:C:1506:SER:HA	6:C:1509:GLN:HG2	1.88	0.55
6:C:1516:GLU:OE1	6:C:1574:ASN:ND2	2.40	0.55
6:C:2467:THR:O	6:C:2470:ARG:N	2.40	0.55
6:C:2559:THR:O	6:C:2562:LEU:N	2.40	0.55
6:C:2808:LEU:O	6:C:2812:LEU:HG	2.07	0.55
6:C:3760:GLN:H	6:C:3760:GLN:CD	2.10	0.55
1:A:145:GLU:HA	1:A:148:TRP:CE2	2.42	0.55
1:A:200:LEU:N	1:A:222:SER:OG	2.40	0.55
1:A:206:LYS:HA	1:A:210:GLY:HA2	1.89	0.55
1:A:387:ILE:O	1:A:391:GLU:HG3	2.07	0.55
1:A:403:ARG:HH21	5:E:36:DA:H1'	1.72	0.55
2:B:330:GLN:HG3	2:B:331:MET:N	2.22	0.55
4:D:8:DT:C2'	4:D:9:DG:H8	2.19	0.55
4:D:15:DG:C2	5:E:21:DA:N1	2.75	0.55
5:E:44:DA:H4'	6:C:260:ILE:HD11	1.88	0.55
6:C:54:GLN:O	6:C:58:VAL:HG23	2.07	0.55
6:C:139:ARG:HB2	6:C:142:ARG:HH11	1.72	0.55
6:C:204:LEU:HD22	6:C:207:GLN:CD	2.27	0.55
6:C:449:TYR:CD2	6:C:454:GLN:HG2	2.42	0.55
6:C:484:HIS:CE1	6:C:555:SER:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1602:ASP:OD1	6:C:1606:ARG:N	2.38	0.55
6:C:2030:TYR:O	6:C:2033:ASP:N	2.34	0.55
6:C:2050:GLN:O	6:C:2053:SER:N	2.39	0.55
6:C:2977:ASN:HB3	6:C:2980:ASP:HB2	1.89	0.55
6:C:3706:ASP:OD1	6:C:3706:ASP:N	2.40	0.55
6:C:4028:ILE:HG23	6:C:4029:GLN:H	1.72	0.55
6:C:4047:ALA:HB1	6:C:4060:THR:HB	1.89	0.55
6:C:4060:THR:HA	6:C:4063:GLU:CD	2.26	0.55
1:A:241:ASP:O	1:A:245:LYS:CB	2.55	0.54
1:A:359:HIS:HB3	1:A:360:HIS:CD2	2.42	0.54
2:B:162:GLN:HE21	2:B:239:LYS:HE3	1.70	0.54
2:B:452:ASN:HA	2:B:455:ASP:OD2	2.06	0.54
6:C:320:LEU:O	6:C:323:VAL:HB	2.08	0.54
6:C:409:GLN:O	6:C:412:SER:HB2	2.06	0.54
6:C:415:GLN:HG2	6:C:463:LYS:HD3	1.89	0.54
6:C:496:VAL:HG23	6:C:497:LEU:HG	1.88	0.54
6:C:870:LEU:HD12	6:C:871:LEU:N	2.23	0.54
6:C:1404:LYS:HA	6:C:1407:LYS:HG3	1.89	0.54
6:C:2242:VAL:O	6:C:2245:TRP:HD1	1.90	0.54
6:C:2386:LEU:HB3	6:C:2404:ARG:HH11	1.72	0.54
6:C:2476:ILE:HG22	6:C:2479:TRP:CE2	2.42	0.54
6:C:2481:HIS:HE1	6:C:2499:PHE:O	1.89	0.54
6:C:2893:LEU:O	6:C:2898:LEU:N	2.28	0.54
6:C:2932:SER:O	6:C:2935:GLU:HG2	2.07	0.54
6:C:2934:GLY:C	6:C:2937:ASP:H	2.09	0.54
6:C:3078:LEU:HA	6:C:3081:HIS:CG	2.42	0.54
6:C:3276:TRP:HB3	6:C:3280:TYR:OH	2.07	0.54
6:C:3592:VAL:HA	6:C:3606:ILE:HD12	1.89	0.54
6:C:3619:ASP:HB2	6:C:3625:LEU:HD22	1.89	0.54
6:C:3631:LYS:NZ	6:C:3686:TRP:HD1	2.05	0.54
6:C:3873:LYS:HA	6:C:3877:LYS:HZ3	1.72	0.54
1:A:143:LEU:H	1:A:185:ARG:HH21	1.55	0.54
1:A:258:ARG:N	5:E:38:DA:OP1	2.35	0.54
1:A:262:LYS:O	1:A:346:MET:HA	2.07	0.54
1:A:404:ARG:HD2	5:E:36:DA:O5'	2.08	0.54
1:A:513:ALA:HA	1:A:516:LYS:HB3	1.89	0.54
2:B:324:SER:O	2:B:328:GLU:HG2	2.06	0.54
2:B:393:VAL:HG12	2:B:394:ARG:O	2.07	0.54
5:E:40:DT:C4	5:E:41:DA:C5	2.94	0.54
5:E:47:DT:H2'	5:E:48:DT:C6	2.42	0.54
6:C:729:CYS:O	6:C:733:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:922:SER:HB3	6:C:925:GLN:HG2	1.89	0.54
6:C:1169:VAL:HG21	6:C:1264:LEU:HD13	1.90	0.54
6:C:1231:GLN:NE2	6:C:1264:LEU:HD11	2.22	0.54
6:C:1432:CYS:O	6:C:1436:LEU:HG	2.07	0.54
6:C:1472:SER:HA	6:C:1476:HIS:CD2	2.41	0.54
6:C:1524:LEU:HD12	6:C:1563:PHE:CD2	2.42	0.54
6:C:2510:LEU:HA	6:C:2522:ARG:CG	2.35	0.54
6:C:2521:ILE:H	6:C:2521:ILE:HD12	1.72	0.54
6:C:2529:THR:OG1	6:C:2530:ARG:N	2.40	0.54
6:C:2790:LEU:O	6:C:2793:PRO:HD2	2.07	0.54
6:C:2884:LEU:HD21	6:C:2925:GLU:OE2	2.07	0.54
6:C:2921:LEU:O	6:C:2924:VAL:HG22	2.07	0.54
6:C:3462:ARG:NH2	6:C:3463:LEU:HD11	2.22	0.54
6:C:3701:ILE:HG13	6:C:3719:ILE:N	2.22	0.54
6:C:3877:LYS:HE3	6:C:3965:ARG:HE	1.72	0.54
1:A:90:THR:HG23	1:A:138:GLY:H	1.72	0.54
1:A:311:LEU:HD11	2:B:288:ASP:O	2.07	0.54
1:A:403:ARG:NH2	5:E:36:DA:H1'	2.23	0.54
2:B:147:LEU:HD12	2:B:148:ASP:N	2.22	0.54
2:B:428:GLU:OE1	2:B:428:GLU:N	2.39	0.54
4:D:-4:DA:H2'	4:D:-4:DA:N3	2.22	0.54
6:C:13:LEU:HD11	6:C:58:VAL:HG22	1.88	0.54
6:C:88:PHE:CD1	6:C:91:ILE:HD11	2.43	0.54
6:C:299:LYS:HA	6:C:303:HIS:HD2	1.72	0.54
6:C:571:SER:OG	6:C:572:VAL:N	2.39	0.54
6:C:572:VAL:HG23	6:C:576:VAL:HG21	1.90	0.54
6:C:749:VAL:CG2	6:C:750:PRO:HD3	2.38	0.54
6:C:913:ARG:HD2	6:C:930:ALA:HA	1.90	0.54
6:C:963:LYS:NZ	6:C:1006:THR:OG1	2.17	0.54
6:C:2254:ARG:HH11	6:C:2295:GLN:HE21	1.55	0.54
6:C:2330:VAL:HG11	6:C:2338:GLU:OE1	2.07	0.54
6:C:2444:PRO:HD2	6:C:2445:LYS:HE3	1.89	0.54
6:C:2774:SER:HB2	6:C:2777:HIS:HD1	1.72	0.54
6:C:3006:ALA:HB1	6:C:3254:LEU:HD21	1.90	0.54
6:C:3514:VAL:HA	6:C:3518:VAL:HB	1.90	0.54
6:C:3650:LYS:O	6:C:3653:ARG:N	2.40	0.54
6:C:3754:GLY:O	6:C:3800:LEU:HB3	2.07	0.54
6:C:4018:GLN:O	6:C:4022:LYS:HG3	2.07	0.54
1:A:152:ASN:O	1:A:155:SER:HB2	2.07	0.54
1:A:343:PRO:CG	1:A:405:ASN:H	2.20	0.54
1:A:367:PHE:HZ	1:A:431:GLY:HA3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:PHE:N	1:A:442:ASP:OD2	2.40	0.54
1:A:479:GLU:HA	2:B:426:PHE:CB	2.37	0.54
2:B:169:LEU:HD13	2:B:205:LEU:HD11	1.90	0.54
5:E:39:DA:H62	5:E:40:DT:H73	1.72	0.54
6:C:461:ILE:HG22	6:C:465:PHE:CZ	2.42	0.54
6:C:556:SER:O	6:C:559:SER:HB2	2.08	0.54
6:C:1091:GLU:HG3	6:C:1137:ILE:HD12	1.88	0.54
6:C:1124:ILE:HD12	6:C:1125:GLN:H	1.72	0.54
6:C:1905:ILE:HG13	6:C:1947:CYS:HB3	1.90	0.54
6:C:1931:ASN:HB2	6:C:1933:LEU:HG	1.89	0.54
6:C:2127:LYS:O	6:C:2130:HIS:NE2	2.41	0.54
6:C:2166:SER:O	6:C:2170:GLN:HB3	2.08	0.54
6:C:2200:ALA:O	6:C:2203:THR:N	2.40	0.54
6:C:2298:GLU:OE1	6:C:2301:GLN:HB2	2.06	0.54
6:C:2450:GLU:O	6:C:2454:LEU:HD13	2.08	0.54
6:C:2472:GLN:NE2	6:C:2475:ASN:HB3	2.23	0.54
6:C:2884:LEU:C	6:C:2886:GLN:N	2.57	0.54
6:C:2916:LEU:HA	6:C:2919:ASP:CG	2.28	0.54
6:C:3156:PRO:O	6:C:3160:LEU:N	2.41	0.54
6:C:3506:LEU:HA	6:C:3510:GLN:OE1	2.07	0.54
6:C:3531:TYR:HE2	6:C:3535:ILE:HG23	1.72	0.54
6:C:3940:ILE:O	6:C:3940:ILE:HG12	2.05	0.54
6:C:3963:LEU:HD11	6:C:3971:MET:SD	2.47	0.54
6:C:4113:ASP:OD2	6:C:4115:ASN:HB3	2.07	0.54
1:A:345:LEU:HD11	1:A:400:TYR:CD1	2.43	0.54
6:C:346:TYR:HD1	6:C:349:ILE:HD12	1.71	0.54
6:C:365:GLY:CA	6:C:368:LEU:HB2	2.37	0.54
6:C:575:ILE:HG13	6:C:578:LYS:HE3	1.88	0.54
6:C:889:GLU:OE2	6:C:3889:ARG:NH1	2.40	0.54
6:C:1062:ARG:HB2	6:C:1066:LEU:HD22	1.90	0.54
6:C:1063:LEU:O	6:C:1067:ALA:CB	2.56	0.54
6:C:1240:THR:HA	6:C:1243:TYR:CD2	2.42	0.54
6:C:1267:TYR:HA	6:C:1270:PHE:CE2	2.43	0.54
6:C:1297:PHE:O	6:C:1301:ILE:HG12	2.06	0.54
6:C:1762:MET:SD	6:C:1896:ILE:HG23	2.48	0.54
6:C:1987:ARG:O	6:C:1990:PHE:HB3	2.08	0.54
6:C:2239:LYS:HD3	6:C:2279:ILE:HG13	1.89	0.54
6:C:2304:VAL:HG21	6:C:2341:LEU:HD11	1.90	0.54
6:C:2413:PHE:CD1	6:C:2442:MET:HG2	2.42	0.54
6:C:2456:ASN:HB2	6:C:2457:PRO:HD3	1.89	0.54
6:C:2459:VAL:HA	6:C:2462:VAL:CG1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2517:LEU:HA	6:C:2520:ILE:HB	1.90	0.54
6:C:3320:ILE:O	6:C:3323:PHE:HB3	2.07	0.54
6:C:3339:ASN:HA	6:C:3342:SER:HB2	1.90	0.54
6:C:3630:ARG:HA	6:C:3686:TRP:CD1	2.42	0.54
6:C:3763:ARG:HA	6:C:3766:GLN:HB2	1.90	0.54
6:C:3987:ALA:O	6:C:3990:ALA:HB3	2.07	0.54
2:B:73:GLN:HG2	2:B:74:TYR:CD2	2.42	0.54
2:B:93:ASP:OD1	2:B:94:ILE:N	2.40	0.54
5:E:41:DA:N1	5:E:42:DA:C5	2.75	0.54
6:C:722:LYS:C	6:C:727:ALA:HB2	2.27	0.54
6:C:970:LEU:HD22	6:C:1031:ARG:HH21	1.72	0.54
6:C:1038:LYS:HD2	6:C:1041:ILE:HB	1.90	0.54
6:C:1045:THR:O	6:C:1049:GLN:N	2.40	0.54
6:C:1890:HIS:ND1	6:C:1937:ARG:HA	2.23	0.54
6:C:2018:ASP:OD2	6:C:2048:GLY:HA3	2.08	0.54
6:C:2256:ILE:CG1	6:C:2259:LYS:HZ3	2.21	0.54
6:C:2260:PHE:O	6:C:2263:LYS:HE3	2.07	0.54
6:C:2296:SER:HB3	6:C:2299:TYR:CE1	2.42	0.54
6:C:2381:ALA:O	6:C:2385:LEU:HD13	2.07	0.54
6:C:2507:ILE:HD12	6:C:2530:ARG:HH21	1.71	0.54
6:C:2936:TYR:O	6:C:2939:LEU:HB2	2.08	0.54
6:C:2938:VAL:HA	6:C:3975:LYS:NZ	2.23	0.54
6:C:3097:ASP:O	6:C:3100:LYS:HB3	2.08	0.54
6:C:3130:GLN:CD	6:C:3178:ILE:HG12	2.28	0.54
6:C:3459:ASN:CB	6:C:3462:ARG:HE	2.20	0.54
6:C:3570:ASP:O	6:C:3573:ASN:HB3	2.08	0.54
1:A:403:ARG:HD2	5:E:37:DT:C4'	2.37	0.54
2:B:242:ARG:HG3	2:B:243:HIS:O	2.08	0.54
6:C:415:GLN:HG3	6:C:460:ALA:HA	1.90	0.54
6:C:557:SER:O	6:C:645:TRP:HH2	1.91	0.54
6:C:642:PHE:CZ	6:C:646:VAL:HG11	2.43	0.54
6:C:659:ARG:O	6:C:662:LEU:N	2.40	0.54
6:C:731:THR:OG1	6:C:732:PHE:N	2.39	0.54
6:C:741:ILE:O	6:C:745:VAL:HG23	2.07	0.54
6:C:1433:ALA:O	6:C:1436:LEU:N	2.40	0.54
6:C:1916:ILE:HA	6:C:1919:CYS:SG	2.47	0.54
6:C:2187:VAL:O	6:C:2191:ALA:HB3	2.06	0.54
6:C:3031:TRP:HZ2	6:C:3038:GLU:HB2	1.72	0.54
6:C:3659:PHE:HA	6:C:3662:ILE:HB	1.88	0.54
6:C:4031:ILE:HG13	6:C:4032:ASN:N	2.21	0.54
1:A:155:SER:N	6:C:2384:PHE:HE1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:ALA:O	1:A:190:ALA:HB2	2.08	0.54
1:A:407:PRO:HB2	2:B:485:PRO:HG2	1.90	0.54
2:B:61:THR:O	2:B:103:GLN:HB3	2.08	0.54
2:B:129:LYS:NZ	2:B:239:LYS:O	2.41	0.54
2:B:292:GLU:HB3	2:B:294:VAL:CG2	2.36	0.54
5:E:47:DT:C4	5:E:48:DT:O4	2.61	0.54
6:C:127:ALA:O	6:C:130:LEU:HB2	2.08	0.54
6:C:197:PHE:HZ	6:C:223:CYS:HA	1.72	0.54
6:C:327:VAL:HA	6:C:334:HIS:CD2	2.42	0.54
6:C:384:MET:C	6:C:386:VAL:H	2.11	0.54
6:C:472:GLY:O	6:C:474:VAL:HG22	2.07	0.54
6:C:544:ILE:HG22	6:C:547:ASP:H	1.73	0.54
6:C:852:ARG:HE	6:C:3111:MET:HA	1.73	0.54
6:C:1015:ASP:O	6:C:1025:LEU:HD21	2.07	0.54
6:C:1917:LYS:NZ	6:C:1956:PHE:HA	2.20	0.54
6:C:1941:HIS:O	6:C:1945:TYR:HB3	2.08	0.54
6:C:2084:GLU:HG2	6:C:2177:ASN:O	2.08	0.54
6:C:2448:PRO:HB2	6:C:2450:GLU:OE1	2.08	0.54
6:C:2916:LEU:HA	6:C:2919:ASP:OD2	2.07	0.54
6:C:3040:TYR:HA	6:C:3043:TYR:CE2	2.43	0.54
6:C:3122:HIS:CG	6:C:3123:GLN:N	2.76	0.54
6:C:3491:PRO:O	6:C:3494:GLN:HG2	2.08	0.54
6:C:3760:GLN:OE1	6:C:3760:GLN:N	2.32	0.54
6:C:3768:PHE:HB3	6:C:3788:LEU:HD11	1.89	0.54
1:A:94:LYS:HD3	1:A:104:VAL:O	2.07	0.54
2:B:426:PHE:N	2:B:429:ASP:OD2	2.27	0.54
2:B:448:GLU:HA	2:B:451:LEU:HD12	1.89	0.54
2:B:526:SER:O	2:B:530:LEU:HG	2.07	0.54
4:D:10:DG:N2	5:E:26:DC:C2	2.73	0.54
6:C:70:ARG:NH2	6:C:75:SER:HA	2.13	0.54
6:C:212:VAL:O	6:C:214:GLU:HG2	2.07	0.54
6:C:277:LEU:H	6:C:280:SER:HB3	1.70	0.54
6:C:291:VAL:HG13	6:C:344:GLN:HE21	1.73	0.54
6:C:431:TYR:HA	6:C:434:VAL:HG12	1.89	0.54
6:C:886:TRP:CZ2	6:C:890:LYS:HB2	2.42	0.54
6:C:1239:PRO:O	6:C:1242:LEU:N	2.41	0.54
6:C:1493:PRO:HB2	6:C:1496:GLU:H	1.72	0.54
6:C:1679:LEU:O	6:C:1682:THR:HB	2.08	0.54
6:C:1680:ALA:O	6:C:1683:LYS:HB2	2.08	0.54
6:C:2040:MET:HA	6:C:2043:PHE:CZ	2.43	0.54
6:C:3028:ASN:C	6:C:3030:ILE:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3101:TYR:O	6:C:3104:GLN:HB3	2.07	0.54
6:C:3487:ILE:O	6:C:3524:ASN:ND2	2.30	0.54
6:C:3759:ARG:HD3	6:C:4011:PHE:CE2	2.41	0.54
6:C:4017:GLU:HA	6:C:4020:MET:HE2	1.89	0.54
1:A:277:VAL:HB	2:B:429:ASP:HA	1.90	0.54
1:A:312:LEU:O	1:A:315:ASP:N	2.41	0.54
1:A:332:GLU:HA	1:A:335:GLU:HG2	1.89	0.54
5:E:18:DG:H1'	5:E:19:DC:H5'	1.90	0.54
6:C:150:GLY:O	6:C:153:PHE:N	2.41	0.54
6:C:649:PHE:HA	6:C:656:GLN:NE2	2.20	0.54
6:C:938:VAL:HG13	6:C:959:TYR:HE1	1.73	0.54
6:C:981:ARG:NE	6:C:1026:ARG:HH22	2.05	0.54
6:C:990:GLN:HA	6:C:2776:ARG:HD2	1.89	0.54
6:C:1010:LEU:HA	6:C:1013:ILE:CG1	2.37	0.54
6:C:1059:LEU:HD23	6:C:1062:ARG:NH1	2.23	0.54
6:C:1356:TRP:HZ2	6:C:1409:SER:O	1.91	0.54
6:C:1740:VAL:O	6:C:1744:LYS:HB3	2.08	0.54
6:C:2159:PRO:O	6:C:2162:LYS:HB2	2.08	0.54
6:C:2235:LEU:HA	6:C:2238:ILE:HD13	1.90	0.54
6:C:2238:ILE:HA	6:C:2241:LEU:HD12	1.89	0.54
6:C:2264:ASP:HB3	6:C:2265:PRO:HD2	1.90	0.54
6:C:3031:TRP:HD1	6:C:3037:GLN:OE1	1.91	0.54
6:C:3151:LEU:HD12	6:C:3152:SER:HA	1.90	0.54
6:C:3329:LEU:HD11	6:C:3388:ALA:HB3	1.89	0.54
6:C:3424:LEU:O	6:C:3427:GLU:N	2.41	0.54
6:C:3778:ASP:HB3	6:C:3781:CYS:SG	2.48	0.54
6:C:3884:LYS:HZ2	6:C:3970:LEU:CA	2.21	0.54
6:C:3923:ARG:NH1	6:C:3939:GLY:HA2	2.23	0.54
6:C:3952:PHE:HA	6:C:4030:GLU:OE2	2.08	0.54
6:C:4017:GLU:HB3	6:C:4031:ILE:HB	1.89	0.54
1:A:243:LEU:O	1:A:247:ARG:HG2	2.08	0.53
1:A:337:LEU:O	2:B:489:ARG:NE	2.41	0.53
1:A:419:GLU:OE2	1:A:425:ILE:HG13	2.08	0.53
1:A:465:ILE:HG13	1:A:525:PHE:CE2	2.42	0.53
6:C:193:ALA:O	6:C:197:PHE:N	2.25	0.53
6:C:266:ALA:HA	6:C:269:SER:HB3	1.90	0.53
6:C:677:ALA:HB2	6:C:704:PHE:HB3	1.89	0.53
6:C:898:PHE:CD1	6:C:2567:SER:HB3	2.43	0.53
6:C:988:VAL:O	6:C:992:ILE:HG23	2.07	0.53
6:C:1338:VAL:O	6:C:1342:MET:HB2	2.07	0.53
6:C:1565:GLU:C	6:C:1567:ILE:H	2.10	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1957:ASN:N	6:C:1960:LYS:HE3	2.22	0.53
6:C:1994:VAL:HG22	6:C:1998:MET:SD	2.48	0.53
6:C:2171:LEU:HB2	6:C:2185:MET:SD	2.47	0.53
6:C:2390:HIS:CE1	6:C:2426:HIS:HB3	2.44	0.53
6:C:2397:CYS:O	6:C:2401:VAL:CB	2.37	0.53
6:C:2470:ARG:HB3	6:C:2474:TYR:HE2	1.73	0.53
6:C:2474:TYR:HA	6:C:2477:LEU:HD12	1.89	0.53
6:C:2558:ALA:HA	6:C:2561:PHE:CD2	2.43	0.53
6:C:3182:ILE:HG13	6:C:3183:ILE:N	2.23	0.53
6:C:3504:ALA:HB3	6:C:4008:GLU:OE2	2.07	0.53
6:C:3549:HIS:O	6:C:3553:GLU:HG2	2.08	0.53
6:C:3678:GLY:HA3	6:C:3734:ARG:NH2	2.23	0.53
6:C:4055:ASN:CG	6:C:4058:VAL:H	2.11	0.53
1:A:290:ARG:NE	2:B:309:ASP:O	2.41	0.53
1:A:310:LEU:HD11	6:C:163:LYS:HZ2	1.73	0.53
1:A:334:THR:O	1:A:337:LEU:HG	2.08	0.53
1:A:383:SER:OG	1:A:384:ALA:N	2.41	0.53
2:B:509:GLN:O	2:B:511:HIS:ND1	2.41	0.53
6:C:788:TYR:O	6:C:791:ASP:CB	2.50	0.53
6:C:2274:ILE:HG13	6:C:2275:GLN:H	1.73	0.53
6:C:2473:MET:HE3	6:C:2474:TYR:CE1	2.43	0.53
6:C:2797:VAL:HG23	6:C:2798:ALA:H	1.73	0.53
6:C:2906:PRO:HG3	6:C:2943:PHE:HB3	1.90	0.53
6:C:3386:SER:HA	6:C:3419:PHE:CZ	2.44	0.53
6:C:3819:THR:O	6:C:3823:GLU:HB3	2.08	0.53
6:C:4102:THR:OG1	6:C:4103:GLN:N	2.41	0.53
1:A:92:LYS:HB3	1:A:135:MET:O	2.08	0.53
1:A:154:PHE:O	1:A:157:VAL:HG12	2.07	0.53
1:A:186:ALA:O	1:A:190:ALA:CB	2.56	0.53
1:A:254:ARG:N	2:B:431:ARG:HH21	2.05	0.53
1:A:328:ILE:HG21	2:B:284:LEU:HD21	1.91	0.53
1:A:354:VAL:HG22	1:A:393:GLU:OE2	2.09	0.53
2:B:205:LEU:HG	2:B:209:LYS:HE3	1.89	0.53
5:E:46:DT:H2'	5:E:47:DT:H71	1.89	0.53
6:C:457:CYS:O	6:C:460:ALA:HB3	2.08	0.53
6:C:730:LEU:O	6:C:733:LEU:HB2	2.08	0.53
6:C:897:PRO:HG2	6:C:2571:ASP:HA	1.89	0.53
6:C:1163:LEU:HA	6:C:1256:TRP:HB3	1.89	0.53
6:C:1400:VAL:HG21	6:C:1460:ARG:HB2	1.91	0.53
6:C:1718:ILE:HD12	6:C:1746:PHE:CD2	2.43	0.53
6:C:2088:LEU:HD21	6:C:2145:PHE:HD2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2266:ASN:HD22	6:C:2312:TYR:HE2	1.57	0.53
6:C:2418:LYS:O	6:C:2422:GLN:HG3	2.07	0.53
6:C:2534:ASN:HD21	6:C:2537:ASP:H	1.55	0.53
6:C:3052:LEU:HD21	6:C:3089:LEU:HA	1.90	0.53
6:C:3287:ARG:NH1	6:C:3327:ASN:OD1	2.41	0.53
6:C:3620:PRO:O	6:C:3629:ARG:HD3	2.09	0.53
6:C:3924:HIS:ND1	6:C:3926:ASN:OD1	2.40	0.53
1:A:348:MET:HB2	1:A:397:LEU:HG	1.91	0.53
2:B:233:LYS:HA	2:B:481:LYS:HB3	1.90	0.53
4:D:11:DC:C2	5:E:25:DG:C2	2.97	0.53
6:C:89:LEU:O	6:C:92:PHE:N	2.40	0.53
6:C:295:GLU:C	6:C:299:LYS:HZ3	2.11	0.53
6:C:787:PRO:HD2	6:C:788:TYR:CE2	2.44	0.53
6:C:1037:LEU:O	6:C:1041:ILE:N	2.30	0.53
6:C:1648:LEU:O	6:C:1651:LYS:HB2	2.09	0.53
6:C:2307:MET:O	6:C:2315:VAL:HG21	2.08	0.53
6:C:2450:GLU:HA	6:C:2453:GLU:OE1	2.08	0.53
6:C:2936:TYR:HB2	6:C:2953:THR:HG21	1.89	0.53
6:C:3123:GLN:O	6:C:3127:THR:OG1	2.12	0.53
6:C:4013:TRP:CZ3	6:C:4040:PRO:HD2	2.43	0.53
6:C:4060:THR:O	6:C:4063:GLU:HB2	2.08	0.53
1:A:65:GLN:O	1:A:69:SER:OG	2.19	0.53
1:A:213:ILE:HD12	1:A:217:TYR:CZ	2.43	0.53
2:B:487:PHE:HB2	2:B:491:PHE:CZ	2.43	0.53
6:C:491:CYS:HA	6:C:527:TYR:CE1	2.43	0.53
6:C:881:LYS:HG3	6:C:883:TYR:CE2	2.35	0.53
6:C:964:ARG:O	6:C:967:PRO:HG2	2.08	0.53
6:C:985:GLU:HG2	6:C:1031:ARG:HH22	1.73	0.53
6:C:1970:LYS:HA	6:C:1988:TYR:HB2	1.91	0.53
6:C:2033:ASP:O	6:C:2037:SER:HB2	2.09	0.53
6:C:2308:SER:HB3	6:C:2348:GLN:HE21	1.73	0.53
6:C:2350:LYS:HZ1	6:C:2377:ARG:HB3	1.72	0.53
6:C:2361:ILE:HG13	6:C:2365:ASN:OD1	2.08	0.53
6:C:2398:LEU:HG	6:C:2399:GLU:N	2.22	0.53
6:C:2429:ASP:HA	6:C:2430:GLU:OE2	2.09	0.53
6:C:2825:THR:OG1	6:C:2829:LYS:HE2	2.08	0.53
6:C:2893:LEU:HA	6:C:2897:LEU:HD23	1.89	0.53
6:C:2965:TYR:CE2	6:C:2969:ALA:HB3	2.44	0.53
6:C:2990:GLU:HA	6:C:2993:PHE:HB2	1.90	0.53
6:C:3120:LEU:HA	6:C:3125:ARG:NH1	2.24	0.53
6:C:3145:ILE:HA	6:C:3148:GLN:CD	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3231:ILE:HD12	6:C:3234:CYS:HB3	1.88	0.53
6:C:3506:LEU:HD12	6:C:3513:ALA:HB1	1.90	0.53
1:A:295:PRO:HD2	2:B:298:ASN:ND2	2.24	0.53
1:A:330:GLU:O	1:A:334:THR:HG23	2.09	0.53
1:A:362:LEU:HD12	2:B:359:ASN:HB2	1.89	0.53
1:A:409:TYR:CD1	2:B:485:PRO:HD2	2.43	0.53
2:B:115:MET:HA	2:B:154:LEU:HD21	1.90	0.53
6:C:147:PHE:CD2	6:C:148:LYS:HG3	2.43	0.53
6:C:277:LEU:O	6:C:322:GLN:NE2	2.42	0.53
6:C:327:VAL:HA	6:C:334:HIS:CG	2.43	0.53
6:C:483:VAL:O	6:C:487:LEU:HB3	2.08	0.53
6:C:704:PHE:O	6:C:708:VAL:HG23	2.08	0.53
6:C:727:ALA:O	6:C:728:SER:C	2.45	0.53
6:C:789:TYR:CZ	6:C:790:LYS:HG3	2.44	0.53
6:C:1023:SER:HB3	6:C:1026:ARG:HE	1.74	0.53
6:C:1253:THR:HG22	6:C:1258:ASP:OD1	2.08	0.53
6:C:1437:TYR:CD2	6:C:1441:ALA:HA	2.43	0.53
6:C:2010:GLU:HG2	6:C:2011:ALA:N	2.23	0.53
6:C:2086:ASP:HB3	6:C:2090:ARG:HG3	1.90	0.53
6:C:2384:PHE:O	6:C:2387:PRO:HD2	2.08	0.53
6:C:2416:LYS:O	6:C:2420:PHE:HB3	2.09	0.53
6:C:2519:LEU:HA	6:C:2522:ARG:HB3	1.90	0.53
6:C:2858:ILE:HG23	6:C:3894:PRO:HG2	1.91	0.53
6:C:3048:LYS:O	6:C:3051:LEU:HB2	2.07	0.53
6:C:3322:ALA:HB1	6:C:3392:ALA:HB1	1.91	0.53
6:C:3479:THR:O	6:C:3483:MET:HB2	2.09	0.53
6:C:3564:GLN:OE1	6:C:3565:GLY:N	2.41	0.53
6:C:3962:ARG:HD3	6:C:4124:TRP:CE3	2.44	0.53
6:C:4077:TYR:HE1	6:C:4115:ASN:CG	2.12	0.53
6:C:4089:ILE:HB	6:C:4093:GLU:CD	2.29	0.53
6:C:4091:ALA:C	6:C:4094:PRO:HD2	2.29	0.53
1:A:297:LYS:HG3	1:A:299:LYS:HZ2	1.74	0.53
2:B:264:TYR:CE2	2:B:365:PHE:HB3	2.44	0.53
2:B:377:LEU:HD12	2:B:380:LEU:HD11	1.90	0.53
6:C:242:PRO:O	6:C:246:ARG:HB2	2.09	0.53
6:C:272:LEU:HB3	6:C:319:PHE:CE2	2.43	0.53
6:C:411:PRO:C	6:C:414:LEU:H	2.11	0.53
6:C:771:ASN:O	6:C:775:GLU:HG3	2.09	0.53
6:C:850:GLU:HB3	6:C:854:ARG:NH2	2.22	0.53
6:C:1340:ARG:O	6:C:1343:GLU:HB2	2.08	0.53
6:C:2291:GLN:HA	6:C:2294:ILE:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2325:LEU:HA	6:C:2328:ARG:HB2	1.91	0.53
6:C:2572:TYR:N	6:C:2573:PRO:HD2	2.24	0.53
6:C:2865:HIS:H	6:C:2868:LEU:HD22	1.73	0.53
6:C:3117:ILE:CG1	6:C:3128:LYS:HZ1	2.21	0.53
6:C:3254:LEU:O	6:C:3258:LEU:HD13	2.08	0.53
6:C:3281:CYS:HG	6:C:3285:HIS:CE1	2.27	0.53
6:C:3507:ASP:O	6:C:3545:THR:OG1	2.17	0.53
6:C:3531:TYR:CE1	6:C:3534:ILE:HD12	2.44	0.53
6:C:3543:LYS:NZ	6:C:3545:THR:HA	2.24	0.53
6:C:3578:LEU:HD23	6:C:3630:ARG:HH11	1.74	0.53
6:C:3689:ASP:OD1	6:C:3690:PHE:N	2.42	0.53
6:C:3759:ARG:HG3	6:C:3762:GLN:OE1	2.08	0.53
6:C:3885:ARG:O	6:C:3888:VAL:N	2.40	0.53
1:A:34:GLY:N	1:A:160:LYS:HG3	2.24	0.53
1:A:182:LYS:HG2	1:A:185:ARG:NH1	2.22	0.53
1:A:259:LEU:HD22	1:A:400:TYR:HE1	1.72	0.53
1:A:288:LEU:O	2:B:311:ILE:HG13	2.09	0.53
1:A:332:GLU:O	1:A:335:GLU:HG2	2.09	0.53
1:A:350:PHE:CD2	2:B:458:ILE:HG23	2.43	0.53
1:A:466:VAL:HA	1:A:469:LEU:HB2	1.91	0.53
4:D:-4:DA:N1	5:E:41:DA:C2	2.77	0.53
5:E:42:DA:H2"	5:E:43:DT:OP1	2.08	0.53
6:C:528:VAL:HA	6:C:531:PHE:CZ	2.44	0.53
6:C:787:PRO:HD2	6:C:788:TYR:CZ	2.44	0.53
6:C:1081:ALA:O	6:C:1085:ILE:HG13	2.09	0.53
6:C:1083:ASN:HD22	6:C:1086:TYR:HD2	1.56	0.53
6:C:1650:ALA:O	6:C:1654:GLN:HB2	2.08	0.53
6:C:1863:PHE:O	6:C:1867:ILE:HG12	2.09	0.53
6:C:2363:CYS:C	6:C:2365:ASN:H	2.12	0.53
6:C:2885:GLN:H	6:C:2885:GLN:CD	1.99	0.53
6:C:3091:LEU:HD22	6:C:3189:PHE:HE1	1.73	0.53
6:C:3329:LEU:HD22	6:C:3385:LEU:HD23	1.91	0.53
6:C:3401:TRP:HB2	6:C:3452:LYS:NZ	2.23	0.53
6:C:3751:LEU:HB2	6:C:3805:TRP:HB2	1.91	0.53
6:C:3844:THR:HB	6:C:3849:LYS:HD3	1.90	0.53
6:C:3850:HIS:HE1	6:C:3853:GLY:H	1.54	0.53
1:A:75:ILE:HG12	2:B:316:TYR:CE1	2.44	0.53
1:A:148:TRP:O	1:A:152:ASN:ND2	2.41	0.53
1:A:416:GLN:OE1	1:A:428:THR:HB	2.08	0.53
2:B:10:VAL:HB	2:B:53:GLU:O	2.09	0.53
2:B:345:PHE:CD1	2:B:391:ALA:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:253:LEU:HD21	6:C:297:LEU:HD12	1.91	0.53
6:C:290:TYR:CE2	6:C:294:PHE:HB2	2.44	0.53
6:C:485:GLN:HB3	6:C:1804:MET:HG3	1.91	0.53
6:C:767:GLU:O	6:C:770:LEU:N	2.42	0.53
6:C:1280:GLN:NE2	6:C:1284:THR:HG23	2.23	0.53
6:C:1866:GLN:O	6:C:1869:LYS:HB2	2.09	0.53
6:C:1890:HIS:CE1	6:C:1937:ARG:HA	2.44	0.53
6:C:1921:ASP:HB3	6:C:1959:LEU:HB2	1.90	0.53
6:C:3159:ARG:C	6:C:3161:LEU:H	2.11	0.53
6:C:3165:THR:O	6:C:3169:PRO:HG3	2.08	0.53
6:C:3409:VAL:HG23	6:C:3410:ILE:H	1.73	0.53
6:C:3740:ILE:HG13	6:C:3750:PHE:HD2	1.74	0.53
1:A:91:GLU:CD	1:A:137:HIS:H	2.12	0.53
1:A:204:HIS:CE1	1:A:211:PHE:HB2	2.44	0.53
1:A:470:ARG:HG2	1:A:471:PHE:N	2.24	0.53
6:C:277:LEU:HB2	6:C:280:SER:N	2.15	0.53
6:C:298:LEU:O	6:C:302:ALA:HB3	2.09	0.53
6:C:317:GLU:C	6:C:320:LEU:HB3	2.29	0.53
6:C:636:GLU:OE2	6:C:1495:ASP:N	2.41	0.53
6:C:677:ALA:O	6:C:681:LYS:HB2	2.09	0.53
6:C:1008:ALA:HA	6:C:1011:GLU:HG2	1.91	0.53
6:C:1055:ASN:HB3	6:C:1056:THR:HG23	1.91	0.53
6:C:1378:GLU:HB3	6:C:1379:PRO:HD3	1.91	0.53
6:C:1496:GLU:HA	6:C:1499:CYS:SG	2.49	0.53
6:C:1893:GLU:HG3	6:C:1897:ASN:HD21	1.73	0.53
6:C:2084:GLU:N	6:C:2177:ASN:O	2.26	0.53
6:C:2193:ILE:HD12	6:C:2203:THR:OG1	2.09	0.53
6:C:2547:SER:OG	6:C:2842:ARG:NE	2.33	0.53
6:C:3126:LEU:HD23	6:C:3129:LEU:HD12	1.89	0.53
6:C:4002:MET:O	6:C:4006:VAL:HG22	2.09	0.53
1:A:73:SER:HB2	1:A:246:VAL:HG11	1.90	0.52
1:A:301:ARG:NE	6:C:163:LYS:HB3	2.24	0.52
1:A:520:SER:O	1:A:523:ASP:N	2.25	0.52
5:E:32:DT:H2'	5:E:33:DA:H8	1.72	0.52
5:E:36:DA:C4	5:E:37:DT:C4	2.98	0.52
6:C:389:ILE:O	6:C:392:CYS:HB2	2.09	0.52
6:C:913:ARG:NH1	6:C:916:GLU:OE2	2.42	0.52
6:C:1390:GLN:NE2	6:C:1394:HIS:HB2	2.25	0.52
6:C:2238:ILE:N	6:C:2238:ILE:HD12	2.24	0.52
6:C:2330:VAL:HG21	6:C:2338:GLU:HB3	1.91	0.52
6:C:2367:VAL:O	6:C:2369:LYS:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2962:ARG:HG3	6:C:2963:SER:OG	2.09	0.52
6:C:2965:TYR:CD2	6:C:3002:TYR:HE2	2.27	0.52
6:C:3173:MET:HG3	6:C:3174:ASP:N	2.24	0.52
6:C:3317:SER:O	6:C:3320:ILE:N	2.42	0.52
6:C:3621:LYS:HA	6:C:3629:ARG:NH1	2.25	0.52
6:C:3869:THR:HA	6:C:3872:ARG:NH2	2.23	0.52
6:C:3884:LYS:O	6:C:3888:VAL:HG23	2.09	0.52
6:C:3933:GLU:HG3	6:C:3934:THR:H	1.74	0.52
6:C:4024:GLY:O	6:C:4027:TRP:HB2	2.08	0.52
1:A:49:PHE:HD1	1:A:132:GLN:NE2	2.07	0.52
1:A:86:VAL:HG13	1:A:103:TYR:O	2.09	0.52
1:A:143:LEU:HD11	1:A:182:LYS:O	2.08	0.52
1:A:261:LEU:O	1:A:269:ILE:HG22	2.09	0.52
1:A:395:ALA:HA	1:A:415:PRO:HD3	1.91	0.52
2:B:250:ARG:NH2	2:B:260:ARG:HE	2.07	0.52
2:B:340:PHE:CZ	2:B:393:VAL:HG11	2.44	0.52
2:B:496:HIS:O	2:B:500:HIS:N	2.42	0.52
4:D:1:DG:H2'	4:D:2:DG:N9	2.25	0.52
6:C:278:HIS:HA	6:C:281:GLN:CG	2.40	0.52
6:C:412:SER:O	6:C:416:SER:HB3	2.09	0.52
6:C:928:VAL:HG23	6:C:929:ALA:H	1.73	0.52
6:C:1479:VAL:HG21	6:C:1507:CYS:HB2	1.89	0.52
6:C:2114:GLU:OE2	6:C:2119:PRO:HG2	2.08	0.52
6:C:2852:PRO:HB2	6:C:2853:PRO:HD3	1.89	0.52
6:C:3117:ILE:HG21	6:C:3125:ARG:NH2	2.23	0.52
6:C:3538:GLU:O	6:C:3541:SER:CB	2.51	0.52
6:C:3650:LYS:HG2	6:C:3659:PHE:HZ	1.74	0.52
6:C:4056:PRO:HD3	6:C:4096:SER:HA	1.91	0.52
2:B:116:ASP:OD1	2:B:120:HIS:ND1	2.41	0.52
2:B:218:GLU:OE2	2:B:221:LEU:HD12	2.09	0.52
2:B:308:GLU:O	2:B:310:ILE:HG23	2.09	0.52
2:B:365:PHE:HE2	2:B:368:ARG:HD3	1.74	0.52
6:C:70:ARG:CZ	6:C:82:ARG:HH21	2.21	0.52
6:C:560:LEU:HB2	6:C:616:LYS:HD3	1.90	0.52
6:C:913:ARG:HH21	6:C:933:LEU:CB	2.19	0.52
6:C:1034:ARG:NH1	6:C:1038:LYS:H	2.07	0.52
6:C:1213:LYS:HE2	6:C:1218:SER:HB3	1.90	0.52
6:C:1238:GLN:HG3	6:C:1301:ILE:HG13	1.90	0.52
6:C:1302:ALA:HA	6:C:1305:ASP:OD2	2.09	0.52
6:C:1493:PRO:O	6:C:1497:ARG:HG2	2.09	0.52
6:C:1984:LEU:HA	6:C:1987:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2022:PRO:HA	6:C:2041:SER:HB2	1.90	0.52
6:C:2208:ASP:OD1	6:C:2211:LEU:HB2	2.09	0.52
6:C:2552:VAL:HA	6:C:2554:PHE:CD2	2.44	0.52
6:C:3012:GLU:HB2	6:C:3050:LYS:HZ1	1.74	0.52
6:C:3167:ARG:HD2	6:C:3237:SER:OG	2.08	0.52
6:C:3351:ILE:HA	6:C:3354:ASP:OD2	2.09	0.52
6:C:3704:GLN:OE1	6:C:3719:ILE:HD12	2.09	0.52
6:C:3774:ILE:HA	6:C:3777:GLN:HG3	1.90	0.52
6:C:3921:GLY:O	6:C:3923:ARG:HG2	2.10	0.52
6:C:3972:LEU:HB2	6:C:3974:MET:HB2	1.91	0.52
6:C:4091:ALA:O	6:C:4094:PRO:HD2	2.09	0.52
1:A:37:SER:OG	1:A:163:HIS:O	2.15	0.52
1:A:344:GLY:C	1:A:345:LEU:HD12	2.30	0.52
1:A:420:LEU:H	2:B:439:LYS:HZ1	1.57	0.52
1:A:534:TYR:CE2	2:B:260:ARG:HG3	2.45	0.52
2:B:88:PHE:O	2:B:92:GLU:HG2	2.10	0.52
2:B:264:TYR:O	2:B:362:LEU:CA	2.55	0.52
4:D:-9:DC:C2	4:D:-8:DT:C5	2.98	0.52
6:C:649:PHE:CD1	6:C:656:GLN:HG3	2.42	0.52
6:C:874:THR:HA	6:C:877:ASP:OD2	2.08	0.52
6:C:1638:PRO:HA	6:C:1641:THR:OG1	2.09	0.52
6:C:1983:ASP:O	6:C:1987:ARG:HG3	2.10	0.52
6:C:2024:TYR:CE2	6:C:2069:ARG:HA	2.44	0.52
6:C:2056:SER:HB2	6:C:2061:PRO:HG2	1.91	0.52
6:C:2304:VAL:O	6:C:2307:MET:N	2.43	0.52
6:C:2444:PRO:HD2	6:C:2445:LYS:HG2	1.89	0.52
6:C:3621:LYS:HZ2	6:C:3638:LYS:HD3	1.74	0.52
6:C:3631:LYS:HA	6:C:3634:GLN:CB	2.39	0.52
6:C:3688:SER:HA	6:C:3690:PHE:CE2	2.45	0.52
6:C:3772:ASN:HA	6:C:3775:LEU:CG	2.40	0.52
6:C:3877:LYS:CE	6:C:3965:ARG:HE	2.23	0.52
6:C:3963:LEU:HG	6:C:3964:THR:H	1.75	0.52
6:C:4125:GLU:HG2	6:C:4127:TRP:NE1	2.24	0.52
5:E:45:DG:C5'	6:C:260:ILE:HA	2.40	0.52
6:C:260:ILE:O	6:C:262:LEU:N	2.43	0.52
6:C:292:SER:O	6:C:296:VAL:HG23	2.09	0.52
6:C:664:SER:O	6:C:667:TYR:N	2.42	0.52
6:C:963:LYS:HZ2	6:C:1006:THR:N	2.08	0.52
6:C:1104:LEU:O	6:C:1107:TYR:HB3	2.09	0.52
6:C:1133:HIS:HD2	6:C:1136:ARG:HH22	1.57	0.52
6:C:1232:PRO:HD2	6:C:1291:LEU:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1276:VAL:O	6:C:1357:LYS:NZ	2.42	0.52
6:C:1812:LEU:O	6:C:1815:THR:HG23	2.10	0.52
6:C:2029:SER:HB2	6:C:2030:TYR:CE1	2.44	0.52
6:C:2187:VAL:HG13	6:C:2188:GLU:H	1.73	0.52
6:C:2346:ALA:O	6:C:2349:LEU:HB3	2.10	0.52
6:C:2873:PRO:O	6:C:2876:VAL:HB	2.10	0.52
6:C:3007:GLU:OE2	6:C:3049:LEU:HB2	2.09	0.52
6:C:3087:SER:HA	6:C:3090:TYR:CD2	2.45	0.52
6:C:3118:ASP:CG	6:C:3119:VAL:H	2.11	0.52
6:C:3128:LYS:O	6:C:3132:VAL:HG22	2.09	0.52
6:C:3134:ALA:O	6:C:3138:ILE:HG12	2.10	0.52
6:C:3167:ARG:HA	6:C:3186:ARG:CZ	2.39	0.52
6:C:3190:LEU:HA	6:C:3193:ILE:HD12	1.91	0.52
6:C:3614:TYR:CE2	6:C:3652:LEU:HD22	2.44	0.52
6:C:3884:LYS:O	6:C:3887:PHE:HB3	2.09	0.52
1:A:112:GLY:CA	2:B:319:ASP:HB3	2.24	0.52
1:A:284:PRO:HB2	1:A:285:PRO:HD2	1.91	0.52
1:A:332:GLU:HG2	1:A:336:GLU:OE1	2.10	0.52
2:B:13:CYS:SG	2:B:59:PHE:HE2	2.33	0.52
2:B:146:GLN:HG3	2:B:149:ILE:HD12	1.91	0.52
2:B:535:THR:OG1	2:B:536:LEU:N	2.42	0.52
4:D:-2:DT:N3	5:E:39:DA:C2	2.67	0.52
6:C:105:VAL:O	6:C:108:LYS:HB2	2.09	0.52
6:C:242:PRO:HB2	6:C:246:ARG:HH12	1.74	0.52
6:C:561:ASN:O	6:C:564:LEU:HG	2.10	0.52
6:C:628:GLU:HG2	6:C:637:LYS:CD	2.38	0.52
6:C:756:PHE:O	6:C:759:GLY:N	2.43	0.52
6:C:941:MET:HE3	6:C:962:TYR:CZ	2.44	0.52
6:C:3117:ILE:HG12	6:C:3124:SER:HB3	1.91	0.52
6:C:3459:ASN:HA	6:C:3462:ARG:HG2	1.90	0.52
6:C:3693:GLU:O	6:C:3697:ASN:N	2.41	0.52
6:C:3718:ARG:HB2	6:C:3743:HIS:CB	2.39	0.52
6:C:3763:ARG:HH22	6:C:4009:PRO:CD	2.22	0.52
1:A:47:ALA:O	1:A:50:GLU:HB2	2.10	0.52
1:A:290:ARG:HG3	2:B:310:ILE:HA	1.91	0.52
1:A:301:ARG:HB2	2:B:292:GLU:OE1	2.10	0.52
1:A:426:GLN:HE21	1:A:428:THR:N	2.08	0.52
2:B:99:GLN:HG2	2:B:101:GLY:N	2.25	0.52
5:E:19:DC:H4'	5:E:20:DT:H4'	1.91	0.52
6:C:13:LEU:HA	6:C:16:GLN:HG2	1.91	0.52
6:C:182:GLY:HA3	6:C:229:SER:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:393:LYS:HA	6:C:396:PHE:HB3	1.92	0.52
6:C:947:GLN:HG2	6:C:949:PRO:HD3	1.92	0.52
6:C:950:GLU:O	6:C:954:GLY:N	2.32	0.52
6:C:2952:ILE:HD13	6:C:2972:TYR:CE2	2.45	0.52
6:C:3050:LYS:HE2	6:C:3051:LEU:HD21	1.91	0.52
6:C:3172:LYS:CE	6:C:3241:LYS:HB3	2.38	0.52
6:C:3662:ILE:O	6:C:3665:MET:HB3	2.10	0.52
6:C:3750:PHE:HD1	6:C:3805:TRP:H	1.57	0.52
2:B:265:LYS:NZ	5:E:28:DA:H4'	2.24	0.52
2:B:382:HIS:ND1	2:B:385:ASP:OD2	2.43	0.52
2:B:413:LYS:H	2:B:417:GLU:HG3	1.74	0.52
2:B:509:GLN:O	2:B:512:ILE:HG12	2.09	0.52
6:C:263:LYS:O	6:C:267:VAL:HG23	2.08	0.52
6:C:301:CYS:HA	6:C:304:THR:HB	1.91	0.52
6:C:353:ASP:O	6:C:1856:THR:N	2.42	0.52
6:C:444:ASP:HA	6:C:446:PHE:HE2	1.75	0.52
6:C:476:ARG:HG3	6:C:477:ASN:N	2.22	0.52
6:C:488:ILE:HD12	6:C:489:ARG:N	2.24	0.52
6:C:613:HIS:HB3	6:C:614:PRO:HD2	1.92	0.52
6:C:848:LEU:O	6:C:851:ILE:HB	2.10	0.52
6:C:1156:GLY:HA2	6:C:1159:PRO:HG2	1.91	0.52
6:C:1231:GLN:HB2	6:C:1232:PRO:HD3	1.90	0.52
6:C:1379:PRO:HB3	6:C:1384:PHE:CD1	2.45	0.52
6:C:1494:GLY:HA2	6:C:1497:ARG:HB2	1.91	0.52
6:C:1603:GLN:HA	6:C:1606:ARG:NH1	2.25	0.52
6:C:1643:MET:HA	6:C:1646:LEU:HB2	1.91	0.52
6:C:1914:THR:O	6:C:1917:LYS:HB3	2.09	0.52
6:C:3138:ILE:O	6:C:3141:PHE:N	2.43	0.52
6:C:3514:VAL:CG1	6:C:3554:PHE:HB2	2.40	0.52
6:C:3676:PRO:N	6:C:3677:PRO:HD2	2.24	0.52
6:C:3933:GLU:HG3	6:C:3934:THR:N	2.25	0.52
1:A:260:LYS:NZ	1:A:344:GLY:HA3	2.25	0.52
1:A:381:LEU:HD23	1:A:382:PHE:N	2.25	0.52
1:A:381:LEU:O	1:A:385:LEU:HG	2.10	0.52
2:B:48:ALA:HB1	2:B:50:ASN:ND2	2.25	0.52
5:E:48:DT:H2'	5:E:49:DT:C6	2.44	0.52
6:C:631:ARG:HH22	6:C:668:LYS:HD3	1.75	0.52
6:C:786:GLN:O	6:C:789:TYR:CE2	2.61	0.52
6:C:913:ARG:NH2	6:C:933:LEU:HB3	2.22	0.52
6:C:1101:PHE:O	6:C:1105:VAL:HG23	2.09	0.52
6:C:1111:LEU:O	6:C:1115:HIS:CE1	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1582:LEU:O	6:C:1586:SER:OG	2.22	0.52
6:C:1701:SER:O	6:C:1705:GLY:HA3	2.09	0.52
6:C:1988:TYR:O	6:C:1991:PRO:HD2	2.10	0.52
6:C:2139:PRO:HA	6:C:2142:ILE:HD12	1.91	0.52
6:C:4002:MET:C	6:C:4005:PHE:HB3	2.30	0.52
1:A:275:ASN:HA	1:A:366:LEU:HB3	1.92	0.52
1:A:402:PRO:CD	1:A:406:ILE:HG21	2.30	0.52
1:A:470:ARG:HH22	1:A:472:THR:HA	1.75	0.52
4:D:-9:DC:H5'	6:C:2313:LYS:HE3	1.92	0.52
4:D:4:DA:C2	4:D:5:DT:C2	2.97	0.52
6:C:70:ARG:HE	6:C:82:ARG:NE	2.07	0.52
6:C:321:LYS:HG2	6:C:325:ASN:ND2	2.25	0.52
6:C:341:PHE:O	6:C:344:GLN:HB2	2.10	0.52
6:C:446:PHE:HB2	6:C:448:GLN:O	2.10	0.52
6:C:635:PRO:HA	6:C:638:GLN:CD	2.30	0.52
6:C:649:PHE:CD2	6:C:650:SER:HA	2.44	0.52
6:C:663:ILE:O	6:C:667:TYR:N	2.42	0.52
6:C:738:HIS:CD2	6:C:745:VAL:HG22	2.45	0.52
6:C:978:GLN:O	6:C:982:GLN:HB3	2.10	0.52
6:C:985:GLU:O	6:C:988:VAL:HG22	2.10	0.52
6:C:994:TRP:CE3	6:C:2783:ILE:HG13	2.45	0.52
6:C:1002:GLU:HA	6:C:1005:ASP:OD2	2.10	0.52
6:C:1233:SER:N	6:C:1291:LEU:HD22	2.24	0.52
6:C:1736:PHE:HB3	6:C:1737:ASN:CG	2.30	0.52
6:C:1760:GLU:HA	6:C:1894:SER:HA	1.92	0.52
6:C:1998:MET:HG3	6:C:1999:GLU:H	1.75	0.52
6:C:2007:ILE:HG13	6:C:2009:LYS:H	1.74	0.52
6:C:2193:ILE:HA	6:C:2196:TRP:CZ2	2.44	0.52
6:C:2518:GLN:O	6:C:2522:ARG:CB	2.58	0.52
6:C:2840:PHE:HA	6:C:2843:PHE:HB3	1.92	0.52
6:C:2856:SER:HA	6:C:2859:GLN:CD	2.31	0.52
6:C:2898:LEU:HD11	6:C:2914:ALA:HB1	1.92	0.52
6:C:3421:ASP:O	6:C:3424:LEU:HB3	2.10	0.52
6:C:3529:ILE:HG13	6:C:3532:PRO:CG	2.39	0.52
1:A:61:ASP:O	1:A:64:ILE:HB	2.09	0.51
1:A:164:LYS:HB3	1:A:198:ILE:HA	1.92	0.51
1:A:332:GLU:O	1:A:335:GLU:N	2.43	0.51
2:B:350:GLN:O	2:B:352:GLN:NE2	2.43	0.51
2:B:490:LEU:HG	2:B:494:LEU:HG	1.92	0.51
6:C:60:SER:O	6:C:63:PHE:HB2	2.10	0.51
6:C:411:PRO:O	6:C:414:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1303:MET:O	6:C:1307:ILE:HG12	2.10	0.51
6:C:1340:ARG:C	6:C:1343:GLU:H	2.13	0.51
6:C:2098:THR:OG1	6:C:2099:ALA:N	2.43	0.51
6:C:2890:ILE:HA	6:C:2893:LEU:HD13	1.91	0.51
6:C:3173:MET:CG	6:C:3174:ASP:H	2.23	0.51
6:C:3373:VAL:HG23	6:C:3375:ALA:H	1.75	0.51
6:C:3447:VAL:HG12	6:C:3465:PHE:CE1	2.45	0.51
6:C:3592:VAL:HG13	6:C:3606:ILE:HD12	1.92	0.51
6:C:3626:GLY:HA2	6:C:3629:ARG:HB3	1.92	0.51
6:C:3685:PRO:HA	6:C:3688:SER:OG	2.09	0.51
6:C:3733:ARG:HH11	6:C:3755:GLY:H	1.57	0.51
6:C:3733:ARG:HG2	6:C:3735:PRO:HB3	1.92	0.51
2:B:41:PHE:O	2:B:45:GLN:HG2	2.10	0.51
2:B:81:ARG:NH2	2:B:93:ASP:OD2	2.38	0.51
2:B:112:ILE:O	2:B:115:MET:HB2	2.10	0.51
2:B:311:ILE:HB	2:B:323:PHE:O	2.11	0.51
4:D:-7:DA:H3'	4:D:-6:DT:H71	1.92	0.51
6:C:20:SER:O	6:C:23:ASP:HB2	2.09	0.51
6:C:75:SER:O	6:C:79:ARG:N	2.39	0.51
6:C:382:ASP:HA	6:C:385:TYR:CE2	2.45	0.51
6:C:557:SER:O	6:C:560:LEU:N	2.43	0.51
6:C:1655:ILE:HA	6:C:1677:SER:HB3	1.91	0.51
6:C:1933:LEU:HA	6:C:1937:ARG:HD3	1.92	0.51
6:C:1977:ILE:HG22	6:C:1978:PHE:H	1.75	0.51
6:C:1986:ARG:O	6:C:1990:PHE:CB	2.41	0.51
6:C:2008:ARG:O	6:C:2012:ARG:NH2	2.42	0.51
6:C:2182:ILE:O	6:C:2186:VAL:HG12	2.10	0.51
6:C:2386:LEU:HD11	6:C:2401:VAL:HG22	1.91	0.51
6:C:2519:LEU:HG	6:C:2523:ASN:ND2	2.25	0.51
6:C:2826:LEU:HA	6:C:2829:LYS:HG2	1.92	0.51
6:C:2847:THR:HB	6:C:2850:PHE:HD2	1.75	0.51
6:C:3062:LEU:O	6:C:3065:ILE:HG22	2.10	0.51
6:C:3256:MET:HA	6:C:3259:LEU:HB2	1.92	0.51
6:C:3583:LEU:O	6:C:3587:ASP:HB2	2.10	0.51
6:C:3733:ARG:NH2	6:C:3756:GLU:HB3	2.23	0.51
6:C:4048:LYS:HA	6:C:4051:LEU:HB3	1.93	0.51
6:C:4077:TYR:HE1	6:C:4115:ASN:ND2	2.07	0.51
1:A:40:PHE:HD2	1:A:85:VAL:HG12	1.75	0.51
1:A:43:ASP:OD1	1:A:88:TYR:OH	2.27	0.51
1:A:71:TYR:HA	1:A:83:LEU:CD1	2.40	0.51
2:B:76:ASN:HB3	2:B:105:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:152:HIS:O	2:B:155:LYS:HB2	2.10	0.51
2:B:320:ILE:HD12	2:B:320:ILE:H	1.75	0.51
2:B:332:LYS:HG2	2:B:334:LYS:HG3	1.91	0.51
6:C:60:SER:HA	6:C:63:PHE:CD2	2.45	0.51
6:C:237:SER:OG	6:C:279:ALA:HB1	2.10	0.51
6:C:261:ASP:O	6:C:264:ARG:HB2	2.10	0.51
6:C:284:THR:HG21	6:C:326:MET:SD	2.51	0.51
6:C:366:TYR:CE1	6:C:412:SER:HA	2.45	0.51
6:C:474:VAL:HG23	6:C:475:LEU:H	1.75	0.51
6:C:938:VAL:HG22	6:C:962:TYR:OH	2.10	0.51
6:C:1140:LYS:HB2	6:C:1142:HIS:NE2	2.25	0.51
6:C:1389:VAL:O	6:C:1390:GLN:HB3	2.10	0.51
6:C:2322:VAL:O	6:C:2326:ILE:HB	2.11	0.51
6:C:2546:TYR:CB	6:C:2549:LYS:HZ1	2.22	0.51
6:C:3065:ILE:O	6:C:3069:MET:HG3	2.10	0.51
6:C:3514:VAL:HG11	6:C:3554:PHE:HB2	1.92	0.51
6:C:3731:SER:HB2	6:C:3734:ARG:N	2.20	0.51
6:C:4014:LYS:O	6:C:4017:GLU:HB2	2.10	0.51
6:C:4074:PHE:O	6:C:4078:VAL:HG22	2.11	0.51
6:C:4104:VAL:O	6:C:4108:MET:HE2	2.10	0.51
1:A:151:ALA:C	6:C:2384:PHE:HZ	2.14	0.51
1:A:412:ALA:O	1:A:435:VAL:N	2.36	0.51
2:B:441:SER:HB3	2:B:444:TYR:O	2.10	0.51
5:E:45:DG:P	6:C:260:ILE:HG23	2.51	0.51
6:C:86:LEU:HA	6:C:89:LEU:HD12	1.91	0.51
6:C:214:GLU:HG3	6:C:256:ILE:HG23	1.92	0.51
6:C:313:LEU:O	6:C:316:LEU:HB3	2.10	0.51
6:C:330:ASN:O	6:C:334:HIS:HB2	2.10	0.51
6:C:1141:LYS:H	6:C:1146:ASN:ND2	2.09	0.51
6:C:1165:LEU:HB2	6:C:1260:LEU:HD11	1.92	0.51
6:C:1259:LEU:HD22	6:C:1340:ARG:HG3	1.93	0.51
6:C:1408:MET:H	6:C:1412:LYS:NZ	2.08	0.51
6:C:1508:LYS:HD3	6:C:1573:LYS:HG2	1.92	0.51
6:C:1524:LEU:HB2	6:C:1563:PHE:HD2	1.74	0.51
6:C:1593:VAL:O	6:C:1596:VAL:HB	2.11	0.51
6:C:2296:SER:HB3	6:C:2299:TYR:CZ	2.44	0.51
6:C:2510:LEU:HD13	6:C:2522:ARG:CZ	2.40	0.51
6:C:2524:PHE:HA	6:C:2527:HIS:CE1	2.45	0.51
6:C:2964:ASP:O	6:C:2968:ALA:HB2	2.11	0.51
6:C:3111:MET:O	6:C:3115:SER:OG	2.26	0.51
6:C:3167:ARG:HH21	6:C:3186:ARG:HD2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3283:LEU:HD11	6:C:3297:VAL:HA	1.92	0.51
6:C:3812:LEU:HD11	6:C:3925:LEU:O	2.10	0.51
1:A:90:THR:CG2	1:A:103:TYR:HE2	2.23	0.51
1:A:296:VAL:HG12	2:B:296:CYS:H	1.75	0.51
1:A:331:LYS:O	1:A:334:THR:OG1	2.27	0.51
2:B:135:PHE:HB3	2:B:227:PHE:CZ	2.46	0.51
6:C:652:GLU:HG2	6:C:717:LYS:HZ3	1.74	0.51
6:C:715:ALA:HB1	6:C:719:LYS:HE2	1.91	0.51
6:C:1434:VAL:HG11	6:C:1448:LEU:HD11	1.92	0.51
6:C:1882:SER:O	6:C:1885:PRO:HD2	2.10	0.51
6:C:2077:HIS:HE1	6:C:2138:VAL:HG11	1.75	0.51
6:C:2102:LYS:O	6:C:2106:ARG:HG3	2.11	0.51
6:C:2151:ILE:HG22	6:C:2152:ASN:O	2.10	0.51
6:C:2220:MET:HB3	6:C:2224:PHE:CZ	2.45	0.51
6:C:2281:MET:HE3	6:C:2286:PRO:HG2	1.92	0.51
6:C:2313:LYS:HG3	6:C:2316:TYR:HE2	1.76	0.51
6:C:2450:GLU:HG2	6:C:2451:LEU:N	2.25	0.51
6:C:2474:TYR:HD1	6:C:2477:LEU:HD12	1.75	0.51
6:C:2554:PHE:CD2	6:C:2554:PHE:N	2.79	0.51
6:C:2858:ILE:O	6:C:2861:ILE:HG13	2.11	0.51
6:C:2928:LYS:HB3	6:C:3784:ARG:NH2	2.26	0.51
6:C:2934:GLY:HA2	6:C:2937:ASP:CB	2.41	0.51
6:C:2977:ASN:HA	6:C:2980:ASP:OD2	2.11	0.51
6:C:3029:LYS:NZ	6:C:3067:LYS:HB2	2.25	0.51
6:C:3794:VAL:N	6:C:3802:LEU:O	2.31	0.51
6:C:3864:ARG:HG2	6:C:4115:ASN:HA	1.93	0.51
1:A:90:THR:H	1:A:101:ASN:HA	1.76	0.51
2:B:275:THR:HB	4:D:6:DT:OP1	2.11	0.51
2:B:486:ARG:NH1	4:D:4:DA:O5'	2.35	0.51
4:D:5:DT:H2'	4:D:6:DT:H71	1.92	0.51
6:C:118:ASP:OD1	6:C:127:ALA:HB1	2.11	0.51
6:C:135:LEU:O	6:C:138:PHE:HB3	2.11	0.51
6:C:209:THR:O	6:C:213:ARG:HA	2.10	0.51
6:C:1058:SER:HA	6:C:1061:LYS:CB	2.40	0.51
6:C:1165:LEU:HD12	6:C:1260:LEU:HD21	1.92	0.51
6:C:1399:CYS:O	6:C:1403:MET:HG2	2.11	0.51
6:C:1603:GLN:HA	6:C:1606:ARG:HH12	1.76	0.51
6:C:1746:PHE:O	6:C:1750:LEU:HB2	2.10	0.51
6:C:2238:ILE:HA	6:C:2241:LEU:CD1	2.40	0.51
6:C:2371:PHE:CE2	6:C:2378:PHE:CE2	2.92	0.51
6:C:2452:ARG:NH2	6:C:2497:GLU:HB2	2.06	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2925:GLU:HB3	6:C:2930:TYR:CD2	2.45	0.51
6:C:3185:ASN:HB3	6:C:3189:PHE:CE2	2.45	0.51
6:C:3571:PHE:HZ	6:C:3690:PHE:N	2.05	0.51
6:C:3927:ASN:HB3	6:C:3941:ASP:OD2	2.11	0.51
6:C:4031:ILE:HG13	6:C:4032:ASN:H	1.74	0.51
1:A:76:ILE:HD13	1:A:247:ARG:HA	1.92	0.51
1:A:90:THR:HG21	1:A:103:TYR:HE2	1.76	0.51
1:A:92:LYS:HE2	1:A:135:MET:O	2.11	0.51
1:A:299:LYS:N	2:B:294:VAL:O	2.36	0.51
1:A:339:ARG:HA	1:A:405:ASN:HD21	1.76	0.51
2:B:114:SER:HB3	2:B:132:ILE:HD13	1.93	0.51
2:B:162:GLN:HG2	2:B:223:GLU:OE2	2.11	0.51
6:C:204:LEU:HD11	6:C:219:VAL:HG12	1.91	0.51
6:C:1036:PHE:CE2	6:C:1085:ILE:HG21	2.46	0.51
6:C:1445:ARG:O	6:C:1448:LEU:HB2	2.11	0.51
6:C:1928:ALA:CA	6:C:1938:ARG:HH12	2.17	0.51
6:C:2103:HIS:HA	6:C:2106:ARG:HD3	1.93	0.51
6:C:2263:LYS:HZ3	6:C:2269:ASP:C	2.13	0.51
6:C:2450:GLU:OE1	6:C:2450:GLU:N	2.41	0.51
6:C:2983:ASP:OD1	6:C:2984:GLY:N	2.38	0.51
6:C:3482:LEU:O	6:C:3485:LYS:HB2	2.09	0.51
6:C:3493:TRP:O	6:C:3496:ILE:HG12	2.11	0.51
6:C:3962:ARG:CD	6:C:4124:TRP:HB3	2.40	0.51
6:C:3974:MET:C	6:C:3976:GLU:H	2.14	0.51
1:A:207:LYS:HD2	1:A:208:PRO:HD2	1.92	0.51
1:A:347:LEU:HD13	1:A:396:ALA:HB1	1.92	0.51
1:A:471:PHE:CZ	2:B:392:ILE:HG13	2.46	0.51
1:A:526:LYS:HA	1:A:530:TYR:CZ	2.45	0.51
2:B:151:ILE:HD13	2:B:214:SER:CB	2.41	0.51
2:B:302:GLU:OE2	6:C:119:ARG:NE	2.31	0.51
2:B:448:GLU:CD	2:B:451:LEU:HB2	2.30	0.51
4:D:-4:DA:H5"	4:D:-3:DT:H71	1.91	0.51
6:C:138:PHE:CZ	6:C:177:LEU:HD22	2.46	0.51
6:C:297:LEU:HA	6:C:300:TRP:HB3	1.92	0.51
6:C:478:CYS:O	6:C:482:VAL:HG23	2.11	0.51
6:C:637:LYS:HA	6:C:641:PHE:CB	2.41	0.51
6:C:1132:ASP:HB3	6:C:1171:TRP:NE1	2.26	0.51
6:C:1158:PRO:C	6:C:1231:GLN:HE22	2.14	0.51
6:C:1329:ARG:O	6:C:1333:SER:OG	2.29	0.51
6:C:1442:GLN:HA	6:C:1445:ARG:NH2	2.25	0.51
6:C:1453:SER:CA	6:C:1456:LYS:HE2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1687:HIS:O	6:C:1691:GLN:CB	2.59	0.51
6:C:1897:ASN:HA	6:C:1900:PHE:CD2	2.45	0.51
6:C:2386:LEU:HA	6:C:2400:VAL:HG11	1.92	0.51
6:C:2818:LYS:O	6:C:2821:ASP:HB2	2.10	0.51
6:C:3763:ARG:HA	6:C:3766:GLN:OE1	2.10	0.51
6:C:3925:LEU:HD23	6:C:4125:GLU:HB2	1.93	0.51
1:A:340:PHE:CE1	2:B:489:ARG:HD3	2.46	0.51
6:C:77:GLU:HB2	6:C:78:PHE:CD1	2.46	0.51
6:C:345:PHE:HA	6:C:348:ILE:HD13	1.93	0.51
6:C:528:VAL:HG13	6:C:531:PHE:CE2	2.45	0.51
6:C:625:ASN:CG	6:C:626:LEU:H	2.12	0.51
6:C:1174:ALA:H	6:C:1267:TYR:HH	1.52	0.51
6:C:1949:ILE:HA	6:C:1952:ILE:HG22	1.93	0.51
6:C:2068:ARG:HD3	6:C:2070:GLU:CD	2.32	0.51
6:C:2154:GLU:O	6:C:2157:PHE:HB2	2.10	0.51
6:C:2335:ASN:HB3	6:C:2339:GLU:OE2	2.10	0.51
6:C:3008:TRP:C	6:C:3050:LYS:HD3	2.31	0.51
6:C:3228:SER:HA	6:C:3231:ILE:HG22	1.92	0.51
6:C:3277:VAL:HB	6:C:3324:ARG:NH2	2.26	0.51
6:C:3923:ARG:HH12	6:C:3939:GLY:HA2	1.76	0.51
1:A:76:ILE:HG21	1:A:247:ARG:O	2.11	0.51
1:A:161:MET:HE1	1:A:164:LYS:HG3	1.92	0.51
1:A:260:LYS:NZ	1:A:343:PRO:O	2.44	0.51
1:A:288:LEU:HB2	2:B:311:ILE:HD11	1.93	0.51
1:A:388:LYS:HD3	2:B:455:ASP:OD2	2.11	0.51
2:B:162:GLN:HE22	2:B:236:VAL:HG22	1.76	0.51
2:B:459:ASP:HA	2:B:462:SER:OG	2.11	0.51
2:B:486:ARG:HH12	4:D:4:DA:P	2.34	0.51
5:E:34:DC:C4	5:E:35:DC:C4	2.99	0.51
6:C:738:HIS:O	6:C:741:ILE:N	2.39	0.51
6:C:970:LEU:O	6:C:981:ARG:HD2	2.11	0.51
6:C:1062:ARG:O	6:C:1065:SER:N	2.44	0.51
6:C:1259:LEU:HD22	6:C:1340:ARG:NH1	2.26	0.51
6:C:1648:LEU:HG	6:C:1652:ILE:CD1	2.40	0.51
6:C:1803:GLU:HA	6:C:1806:ARG:HG3	1.93	0.51
6:C:1897:ASN:HA	6:C:1900:PHE:CE2	2.46	0.51
6:C:2070:GLU:OE2	6:C:2075:THR:HG21	2.11	0.51
6:C:2878:ALA:HB3	6:C:2882:ALA:CB	2.40	0.51
6:C:2996:LEU:O	6:C:2999:LEU:N	2.43	0.51
6:C:3336:ILE:HG23	6:C:3339:ASN:N	2.24	0.51
1:A:65:GLN:HE21	1:A:123:LYS:HG2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:GLU:HB3	1:A:333:GLU:H	1.76	0.50
2:B:497:ARG:NH2	2:B:503:GLU:O	2.43	0.50
4:D:10:DG:H1	5:E:25:DG:H1	1.56	0.50
6:C:138:PHE:O	6:C:141:SER:HB2	2.11	0.50
6:C:299:LYS:O	6:C:303:HIS:HB2	2.12	0.50
6:C:451:PRO:HA	6:C:454:GLN:CD	2.31	0.50
6:C:670:LEU:O	6:C:674:VAL:HG23	2.11	0.50
6:C:673:THR:O	6:C:677:ALA:HB3	2.11	0.50
6:C:987:LEU:HG	6:C:990:GLN:NE2	2.27	0.50
6:C:1112:ALA:HA	6:C:1115:HIS:CE1	2.46	0.50
6:C:1163:LEU:HA	6:C:1256:TRP:CB	2.41	0.50
6:C:1285:GLU:HG2	6:C:1361:LYS:HG3	1.93	0.50
6:C:1374:GLN:NE2	6:C:1377:CYS:SG	2.84	0.50
6:C:1738:ASN:O	6:C:1742:CYS:HB2	2.11	0.50
6:C:2047:THR:HA	6:C:2050:GLN:OE1	2.10	0.50
6:C:2093:CYS:O	6:C:2096:PRO:HG2	2.10	0.50
6:C:2151:ILE:HG21	6:C:2156:VAL:HG13	1.93	0.50
6:C:3038:GLU:O	6:C:3041:LEU:CB	2.52	0.50
6:C:3087:SER:HA	6:C:3090:TYR:CE2	2.45	0.50
6:C:3117:ILE:HG12	6:C:3128:LYS:HZ1	1.76	0.50
6:C:3306:LEU:O	6:C:3310:ASN:ND2	2.44	0.50
6:C:3578:LEU:HD23	6:C:3630:ARG:NH1	2.27	0.50
6:C:3767:LEU:O	6:C:3770:VAL:N	2.44	0.50
6:C:3879:PRO:HB2	6:C:3966:GLN:OE1	2.11	0.50
6:C:3901:ARG:CZ	6:C:3971:MET:O	2.59	0.50
6:C:3952:PHE:HB2	6:C:3955:VAL:HG12	1.93	0.50
6:C:4125:GLU:HG2	6:C:4127:TRP:CE2	2.46	0.50
1:A:305:THR:N	2:B:288:ASP:O	2.32	0.50
1:A:486:HIS:NE2	2:B:328:GLU:OE2	2.44	0.50
2:B:280:ASP:OD1	2:B:281:ALA:N	2.44	0.50
2:B:496:HIS:HE1	2:B:503:GLU:CG	2.24	0.50
4:D:-2:DT:C4	5:E:38:DA:N6	2.79	0.50
6:C:681:LYS:HE3	6:C:746:ARG:HE	1.76	0.50
6:C:738:HIS:CE1	6:C:741:ILE:HD11	2.47	0.50
6:C:772:ALA:HA	6:C:775:GLU:CD	2.31	0.50
6:C:1334:LYS:O	6:C:1337:VAL:HB	2.11	0.50
6:C:1415:LEU:O	6:C:1418:HIS:HB3	2.12	0.50
6:C:1954:CYS:SG	6:C:2003:LYS:NZ	2.65	0.50
6:C:2240:THR:HA	6:C:2243:GLU:OE1	2.11	0.50
6:C:2384:PHE:C	6:C:2387:PRO:HD2	2.31	0.50
6:C:3133:GLN:O	6:C:3137:GLU:HG3	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3273:LEU:O	6:C:3277:VAL:HG13	2.10	0.50
6:C:3619:ASP:O	6:C:3625:LEU:HD22	2.11	0.50
6:C:3774:ILE:HA	6:C:3777:GLN:CG	2.40	0.50
6:C:3976:GLU:HA	6:C:3979:LEU:CB	2.40	0.50
1:A:382:PHE:HZ	1:A:431:GLY:HA2	1.77	0.50
1:A:403:ARG:HD2	5:E:37:DT:C5'	2.41	0.50
1:A:429:PRO:HD2	2:B:354:ARG:NH1	2.23	0.50
1:A:479:GLU:HG3	1:A:481:PRO:HG3	1.92	0.50
2:B:200:GLN:HA	2:B:203:GLU:OE1	2.10	0.50
2:B:382:HIS:HA	2:B:385:ASP:CG	2.31	0.50
6:C:70:ARG:NE	6:C:82:ARG:HH21	2.09	0.50
6:C:80:GLU:O	6:C:84:GLU:HG2	2.12	0.50
6:C:112:THR:O	6:C:115:TYR:HB2	2.12	0.50
6:C:437:HIS:O	6:C:440:VAL:HG22	2.11	0.50
6:C:630:CYS:O	6:C:634:LEU:HB3	2.12	0.50
6:C:704:PHE:O	6:C:707:PHE:HB3	2.12	0.50
6:C:850:GLU:CB	6:C:854:ARG:HH12	2.22	0.50
6:C:894:PHE:CD1	6:C:906:PHE:HE2	2.29	0.50
6:C:910:PHE:N	6:C:912:PRO:HD2	2.26	0.50
6:C:1235:ILE:H	6:C:1235:ILE:HD12	1.76	0.50
6:C:1443:VAL:HG12	6:C:1447:ARG:NH2	2.25	0.50
6:C:2009:LYS:HG3	6:C:2013:GLU:HB2	1.93	0.50
6:C:2295:GLN:HG3	6:C:2299:TYR:OH	2.10	0.50
6:C:2434:VAL:O	6:C:2437:ASP:CB	2.51	0.50
6:C:2890:ILE:HG12	6:C:2918:PRO:HG3	1.94	0.50
6:C:3128:LYS:O	6:C:3131:SER:HB2	2.11	0.50
6:C:3813:LYS:NZ	6:C:3817:LEU:HD21	2.26	0.50
6:C:3929:MET:O	6:C:3937:VAL:HA	2.12	0.50
6:C:4056:PRO:HA	6:C:4094:PRO:HB3	1.94	0.50
6:C:4107:LEU:HA	6:C:4110:GLN:OE1	2.12	0.50
1:A:90:THR:HA	1:A:138:GLY:HA2	1.93	0.50
1:A:145:GLU:OE1	1:A:145:GLU:N	2.28	0.50
1:A:317:LYS:CG	1:A:330:GLU:HA	2.41	0.50
2:B:253:ILE:HB	2:B:257:LEU:HB3	1.93	0.50
2:B:315:ARG:NH2	2:B:318:SER:HA	2.26	0.50
2:B:448:GLU:OE2	2:B:452:ASN:N	2.45	0.50
2:B:523:THR:HG22	2:B:527:GLN:HE22	1.75	0.50
2:B:528:ILE:O	2:B:531:SER:HB2	2.12	0.50
5:E:25:DG:C2'	5:E:26:DC:H5'	2.40	0.50
5:E:34:DC:H2''	5:E:35:DC:H2'	1.94	0.50
5:E:45:DG:H2'	5:E:46:DT:N3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:90:CYS:HB3	6:C:137:THR:OG1	2.11	0.50
6:C:355:ASN:C	6:C:1856:THR:HG23	2.31	0.50
6:C:444:ASP:CB	6:C:530:LEU:HG	2.41	0.50
6:C:626:LEU:HA	6:C:666:PHE:CZ	2.46	0.50
6:C:1074:LYS:HE3	6:C:1075:ARG:HH12	1.76	0.50
6:C:1739:TYR:O	6:C:1743:MET:HB3	2.12	0.50
6:C:2313:LYS:HG3	6:C:2316:TYR:CE2	2.47	0.50
6:C:2833:THR:O	6:C:2834:GLN:C	2.48	0.50
6:C:2863:CYS:HB2	6:C:2868:LEU:HD21	1.93	0.50
6:C:3119:VAL:O	6:C:3121:LEU:HG	2.11	0.50
6:C:3159:ARG:NE	6:C:3162:ASN:OD1	2.43	0.50
6:C:4044:ILE:O	6:C:4048:LYS:HD3	2.11	0.50
1:A:143:LEU:O	1:A:146:VAL:N	2.45	0.50
1:A:455:THR:OG1	1:A:458:GLN:OE1	2.20	0.50
2:B:251:LEU:HA	2:B:340:PHE:O	2.11	0.50
2:B:340:PHE:CE2	2:B:393:VAL:HG11	2.47	0.50
2:B:400:ARG:HD2	4:D:9:DG:C2'	2.40	0.50
2:B:405:VAL:HG23	2:B:426:PHE:HZ	1.74	0.50
4:D:-10:DA:C6	5:E:45:DG:C6	2.99	0.50
6:C:304:THR:HG22	6:C:306:VAL:HG13	1.94	0.50
6:C:337:LYS:O	6:C:340:TYR:HB2	2.11	0.50
6:C:407:VAL:C	6:C:409:GLN:N	2.65	0.50
6:C:411:PRO:HA	6:C:414:LEU:CB	2.41	0.50
6:C:652:GLU:HB3	6:C:722:LYS:HE3	1.94	0.50
6:C:1389:VAL:HG23	6:C:1391:VAL:HG23	1.93	0.50
6:C:1973:LYS:NZ	6:C:1975:LEU:HB2	2.26	0.50
6:C:2049:VAL:HA	6:C:2052:TYR:HD2	1.76	0.50
6:C:2341:LEU:O	6:C:2344:LEU:HB2	2.11	0.50
6:C:2420:PHE:CZ	6:C:2424:MET:HB2	2.46	0.50
6:C:2552:VAL:C	6:C:2554:PHE:H	2.15	0.50
6:C:3559:LYS:NZ	6:C:3563:ASP:OD2	2.36	0.50
6:C:3671:ASN:O	6:C:3674:SER:OG	2.25	0.50
6:C:4065:LEU:HA	6:C:4068:HIS:HB3	1.94	0.50
1:A:39:ILE:HD13	1:A:166:ILE:HG12	1.92	0.50
1:A:77:SER:HA	1:A:249:LYS:O	2.12	0.50
1:A:470:ARG:HE	2:B:347:LYS:H	1.59	0.50
2:B:28:GLU:HG3	2:B:33:GLN:HG3	1.94	0.50
2:B:73:GLN:C	2:B:75:GLN:H	2.15	0.50
2:B:162:GLN:NE2	2:B:239:LYS:HE3	2.26	0.50
2:B:374:ALA:O	2:B:377:LEU:HB3	2.11	0.50
6:C:177:LEU:HA	6:C:180:LEU:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:207:GLN:HG3	6:C:215:PRO:HB3	1.93	0.50
6:C:260:ILE:HD13	6:C:260:ILE:N	2.26	0.50
6:C:291:VAL:O	6:C:294:PHE:HB3	2.10	0.50
6:C:326:MET:O	6:C:330:ASN:ND2	2.37	0.50
6:C:408:TYR:O	6:C:412:SER:OG	2.24	0.50
6:C:894:PHE:CE1	6:C:903:PRO:HG2	2.45	0.50
6:C:1007:VAL:O	6:C:1010:LEU:HG	2.12	0.50
6:C:1250:LEU:HD23	6:C:1254:LEU:HD13	1.93	0.50
6:C:1292:LYS:O	6:C:1295:ALA:HB3	2.12	0.50
6:C:1399:CYS:O	6:C:1403:MET:N	2.24	0.50
6:C:1403:MET:O	6:C:1406:LEU:HB2	2.10	0.50
6:C:1878:ASP:O	6:C:1882:SER:N	2.43	0.50
6:C:1918:LEU:HA	6:C:1921:ASP:HB2	1.94	0.50
6:C:2418:LYS:N	6:C:2418:LYS:HD2	2.26	0.50
6:C:3076:ALA:O	6:C:3080:LEU:HG	2.12	0.50
6:C:3353:GLU:HB2	6:C:3373:VAL:O	2.12	0.50
6:C:3817:LEU:HD22	6:C:3829:LEU:HD22	1.94	0.50
6:C:3864:ARG:NH1	6:C:4119:ARG:HH11	2.09	0.50
6:C:4013:TRP:CH2	6:C:4041:ARG:HB2	2.46	0.50
1:A:95:ASN:HD21	1:A:99:PHE:H	1.57	0.50
2:B:463:LEU:HB2	2:B:475:ASP:OD1	2.12	0.50
6:C:288:ASP:OD1	6:C:289:ASN:N	2.44	0.50
6:C:574:LYS:HA	6:C:577:GLU:HG2	1.93	0.50
6:C:933:LEU:HD13	6:C:2794:LEU:CB	2.40	0.50
6:C:983:LEU:HD23	6:C:984:TYR:CE2	2.47	0.50
6:C:1481:THR:C	6:C:1484:LEU:HB3	2.32	0.50
6:C:2510:LEU:HB2	6:C:2522:ARG:CZ	2.41	0.50
6:C:2534:ASN:ND2	6:C:2537:ASP:H	2.10	0.50
6:C:2813:PHE:HB3	6:C:2817:LEU:CD1	2.40	0.50
6:C:2841:ASN:O	6:C:2844:LEU:HB2	2.11	0.50
6:C:3444:ALA:HB1	6:C:3478:GLU:OE2	2.12	0.50
6:C:3510:GLN:HB2	6:C:3513:ALA:HB2	1.94	0.50
6:C:3629:ARG:HG3	6:C:3633:ILE:HB	1.93	0.50
6:C:4093:GLU:HB2	6:C:4094:PRO:HD3	1.93	0.50
1:A:292:THR:O	1:A:294:GLU:HG2	2.12	0.50
1:A:428:THR:HG22	2:B:354:ARG:NH2	2.27	0.50
1:A:451:LYS:NZ	2:B:415:ASN:O	2.34	0.50
1:A:458:GLN:C	1:A:462:MET:HG2	2.32	0.50
1:A:458:GLN:O	1:A:462:MET:HG2	2.12	0.50
2:B:18:PHE:CE2	2:B:103:GLN:HA	2.47	0.50
4:D:2:DG:C6	5:E:33:DA:N6	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:447:PRO:HG3	6:C:525:LYS:HD3	1.94	0.50
6:C:566:ASP:OD2	6:C:1800:SER:HA	2.12	0.50
6:C:735:SER:O	6:C:738:HIS:N	2.35	0.50
6:C:957:PRO:C	6:C:960:GLN:HB3	2.32	0.50
6:C:1013:ILE:HG22	6:C:1028:PHE:HB2	1.94	0.50
6:C:1178:ARG:HG3	6:C:1214:GLU:O	2.12	0.50
6:C:2019:SER:O	6:C:2069:ARG:NH2	2.43	0.50
6:C:2105:HIS:ND1	6:C:2108:LEU:O	2.44	0.50
6:C:2157:PHE:O	6:C:2160:TYR:HB2	2.11	0.50
6:C:2239:LYS:O	6:C:2243:GLU:HG3	2.11	0.50
6:C:2797:VAL:HG23	6:C:2798:ALA:N	2.27	0.50
6:C:2814:SER:O	6:C:2819:GLU:HG2	2.12	0.50
6:C:2905:LEU:HB2	6:C:2906:PRO:HD2	1.93	0.50
6:C:2911:ARG:HD3	6:C:2913:LYS:HG3	1.94	0.50
6:C:3049:LEU:HD21	6:C:3088:LEU:HD23	1.93	0.50
6:C:3270:ASP:OD1	6:C:3273:LEU:HD12	2.12	0.50
6:C:3326:GLN:HG2	6:C:3389:VAL:HA	1.93	0.50
6:C:3857:LEU:HB3	6:C:3859:TYR:CE2	2.47	0.50
6:C:4039:TYR:CG	6:C:4042:GLN:HG2	2.47	0.50
6:C:4102:THR:HA	6:C:4105:LYS:HD2	1.93	0.50
6:C:4113:ASP:O	6:C:4117:LEU:HG	2.12	0.50
1:A:158:GLN:HG2	1:A:159:PHE:CD1	2.47	0.50
2:B:106:ASP:OD1	2:B:107:PHE:N	2.42	0.50
4:D:10:DG:N1	5:E:26:DC:C2	2.79	0.50
4:D:10:DG:H2''	4:D:11:DC:O5'	2.12	0.50
6:C:90:CYS:CB	6:C:136:GLN:HG3	2.42	0.50
6:C:139:ARG:HG3	6:C:140:SER:N	2.27	0.50
6:C:373:CYS:H	6:C:375:VAL:CG2	2.25	0.50
6:C:384:MET:O	6:C:385:TYR:CG	2.65	0.50
6:C:643:GLU:O	6:C:646:VAL:HG22	2.12	0.50
6:C:873:VAL:C	6:C:876:SER:H	2.16	0.50
6:C:879:MET:SD	6:C:3119:VAL:HA	2.52	0.50
6:C:1392:MET:O	6:C:1395:LEU:HB3	2.12	0.50
6:C:2160:TYR:O	6:C:2163:HIS:N	2.43	0.50
6:C:2239:LYS:NZ	6:C:2275:GLN:HB3	2.27	0.50
6:C:2307:MET:HB3	6:C:2348:GLN:NE2	2.27	0.50
6:C:2554:PHE:HA	6:C:2557:LEU:CD1	2.34	0.50
6:C:2795:GLN:HB3	6:C:2799:GLN:OE1	2.12	0.50
6:C:2946:GLU:HB2	6:C:2950:LYS:HE3	1.94	0.50
6:C:2953:THR:O	6:C:2957:LEU:HG	2.12	0.50
6:C:3184:THR:HG1	6:C:3185:ASN:H	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3298:LEU:HD23	6:C:3348:LEU:HB3	1.94	0.50
6:C:3319:ASN:HA	6:C:3396:ALA:CB	2.42	0.50
6:C:3733:ARG:HB3	6:C:3735:PRO:HD3	1.94	0.50
6:C:3976:GLU:OE2	6:C:3979:LEU:HD12	2.12	0.50
1:A:279:LYS:NZ	1:A:281:LEU:HD11	2.27	0.49
1:A:351:LYS:N	1:A:394:VAL:HG22	2.27	0.49
2:B:297:LEU:O	2:B:302:GLU:HB2	2.12	0.49
4:D:5:DT:C2	4:D:6:DT:C5	3.00	0.49
5:E:16:DC:H2'	5:E:18:DG:C6	2.46	0.49
6:C:275:PHE:CD1	6:C:280:SER:HB2	2.47	0.49
6:C:790:LYS:O	6:C:794:PRO:HG2	2.11	0.49
6:C:847:SER:HB2	6:C:850:GLU:HG3	1.94	0.49
6:C:917:LEU:HA	6:C:927:LYS:NZ	2.26	0.49
6:C:927:LYS:O	6:C:930:ALA:HB3	2.12	0.49
6:C:1170:LYS:HA	6:C:1267:TYR:CD1	2.47	0.49
6:C:1608:ARG:HB2	6:C:1633:TRP:HZ2	1.76	0.49
6:C:2218:PHE:O	6:C:2221:LYS:HB3	2.12	0.49
6:C:3050:LYS:HG3	6:C:3051:LEU:HG	1.94	0.49
6:C:3272:TRP:HB3	6:C:3276:TRP:HE1	1.77	0.49
6:C:3666:LEU:HG	6:C:3670:MET:SD	2.52	0.49
1:A:74:LYS:HA	1:A:77:SER:HG	1.77	0.49
1:A:215:LEU:HD12	1:A:216:PHE:H	1.77	0.49
2:B:138:LEU:O	2:B:142:PHE:HZ	1.95	0.49
2:B:386:ASP:N	2:B:386:ASP:OD1	2.43	0.49
6:C:33:GLN:HG3	6:C:34:LEU:N	2.27	0.49
6:C:348:ILE:HA	6:C:351:ASN:CB	2.42	0.49
6:C:593:ASN:OD1	6:C:1087:ARG:NH2	2.43	0.49
6:C:891:ARG:HH11	6:C:893:SER:HA	1.77	0.49
6:C:1703:THR:OG1	6:C:1704:GLY:N	2.45	0.49
6:C:1994:VAL:O	6:C:1998:MET:HG2	2.11	0.49
6:C:2061:PRO:HD2	6:C:2104:MET:HE1	1.94	0.49
6:C:2131:GLY:HA3	6:C:2141:ASN:HD21	1.77	0.49
6:C:2304:VAL:HG13	6:C:2345:VAL:HG22	1.94	0.49
6:C:2349:LEU:HD12	6:C:2364:LEU:HB3	1.93	0.49
6:C:2388:LYS:O	6:C:2392:VAL:HG23	2.11	0.49
6:C:3632:PHE:HE1	6:C:3682:GLU:HB2	1.76	0.49
6:C:3839:TYR:OH	6:C:4118:GLY:O	2.27	0.49
6:C:3959:MET:HE1	6:C:3962:ARG:HA	1.93	0.49
6:C:3974:MET:CA	6:C:3975:LYS:HB3	2.41	0.49
6:C:4006:VAL:O	6:C:4009:PRO:HD2	2.11	0.49
6:C:4016:PHE:HD1	6:C:4019:LYS:HD2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:4068:HIS:CG	6:C:4069:GLU:N	2.80	0.49
6:C:4100:GLU:N	6:C:4102:THR:OG1	2.44	0.49
1:A:353:LEU:N	1:A:393:GLU:OE2	2.45	0.49
2:B:234:LEU:HD22	2:B:237:PHE:CE2	2.47	0.49
2:B:362:LEU:HB2	2:B:421:TYR:H	1.78	0.49
2:B:454:VAL:H	2:B:532:LYS:NZ	2.09	0.49
2:B:460:SER:O	2:B:522:VAL:HG13	2.12	0.49
4:D:-6:DT:O4	5:E:42:DA:N6	2.45	0.49
5:E:17:DA:C8	5:E:18:DG:C4	3.00	0.49
6:C:437:HIS:HB2	6:C:1814:PHE:CB	2.36	0.49
6:C:592:GLU:O	6:C:596:GLU:HG3	2.12	0.49
6:C:852:ARG:NH2	6:C:3110:PHE:O	2.41	0.49
6:C:1403:MET:O	6:C:1407:LYS:HG3	2.12	0.49
6:C:2004:TYR:OH	6:C:2009:LYS:HE3	2.13	0.49
6:C:2227:LYS:HA	6:C:2231:PHE:O	2.12	0.49
6:C:2345:VAL:O	6:C:2348:GLN:HB3	2.12	0.49
6:C:2439:ILE:HG23	6:C:2440:TYR:CZ	2.47	0.49
6:C:2920:VAL:HA	6:C:2923:TRP:HD1	1.74	0.49
6:C:3025:PRO:O	6:C:3029:LYS:HG3	2.12	0.49
6:C:3353:GLU:HB2	6:C:3377:LEU:HG	1.93	0.49
6:C:3753:LYS:HG2	6:C:3803:ILE:HG21	1.93	0.49
6:C:3764:VAL:HG12	6:C:3768:PHE:HE2	1.76	0.49
6:C:3817:LEU:O	6:C:3820:MET:N	2.44	0.49
6:C:3855:TYR:HA	6:C:3858:MET:CE	2.41	0.49
6:C:3998:LEU:HD11	6:C:4002:MET:HG2	1.95	0.49
1:A:69:SER:CB	1:A:239:LEU:HD11	2.42	0.49
2:B:275:THR:O	2:B:276:TRP:HB2	2.11	0.49
5:E:27:DC:O2	5:E:27:DC:H2'	2.13	0.49
5:E:46:DT:H2'	5:E:47:DT:H6	1.72	0.49
6:C:187:SER:O	6:C:190:ILE:HB	2.12	0.49
6:C:323:VAL:O	6:C:327:VAL:HG23	2.11	0.49
6:C:437:HIS:HA	6:C:440:VAL:HG22	1.93	0.49
6:C:608:PRO:HB3	6:C:1801:VAL:HG13	1.93	0.49
6:C:852:ARG:NE	6:C:3111:MET:HA	2.27	0.49
6:C:923:ASP:OD1	6:C:923:ASP:N	2.45	0.49
6:C:1304:HIS:HA	6:C:1307:ILE:HG12	1.94	0.49
6:C:1372:LEU:HD11	6:C:1399:CYS:SG	2.52	0.49
6:C:1409:SER:HB3	6:C:1410:PRO:HD3	1.94	0.49
6:C:1633:TRP:CD1	6:C:1633:TRP:N	2.78	0.49
6:C:1726:SER:HA	6:C:1866:GLN:NE2	2.18	0.49
6:C:2021:GLY:HA3	6:C:2044:ASP:OD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2458:VAL:HG13	6:C:2473:MET:SD	2.52	0.49
6:C:3134:ALA:O	6:C:3137:GLU:HB2	2.12	0.49
6:C:3704:GLN:NE2	6:C:3802:LEU:HD22	2.26	0.49
6:C:3793:VAL:HG22	6:C:3803:ILE:HG13	1.93	0.49
1:A:73:SER:HB2	1:A:246:VAL:CG1	2.43	0.49
1:A:239:LEU:HG	1:A:243:LEU:HG	1.95	0.49
1:A:256:LEU:HD23	5:E:38:DA:O5'	2.13	0.49
1:A:306:SER:HB2	2:B:288:ASP:OD1	2.12	0.49
2:B:131:HIS:CE1	2:B:133:GLU:HB3	2.47	0.49
6:C:351:ASN:HB3	6:C:357:LYS:HZ1	1.78	0.49
6:C:369:PHE:CE1	6:C:373:CYS:HA	2.48	0.49
6:C:484:HIS:HA	6:C:487:LEU:HD23	1.94	0.49
6:C:624:ILE:H	6:C:659:ARG:NH1	2.11	0.49
6:C:898:PHE:HD1	6:C:2567:SER:HB3	1.78	0.49
6:C:941:MET:SD	6:C:959:TYR:HD1	2.34	0.49
6:C:992:ILE:HD11	6:C:1034:ARG:CG	2.43	0.49
6:C:1104:LEU:O	6:C:1108:MET:HG3	2.13	0.49
6:C:1426:GLN:O	6:C:1430:GLU:HG2	2.11	0.49
6:C:1759:LEU:HG	6:C:1893:GLU:H	1.78	0.49
6:C:1930:GLU:OE1	6:C:1930:GLU:N	2.44	0.49
6:C:2082:GLU:OE1	6:C:2082:GLU:N	2.46	0.49
6:C:2195:SER:HB2	6:C:2196:TRP:CZ3	2.47	0.49
6:C:2801:ASP:N	6:C:2802:PRO:HD2	2.26	0.49
6:C:2886:GLN:NE2	6:C:2922:ARG:HA	2.27	0.49
6:C:2989:ALA:O	6:C:2992:ASP:N	2.45	0.49
6:C:3120:LEU:HD13	6:C:3125:ARG:NH1	2.28	0.49
6:C:3231:ILE:O	6:C:3235:LYS:HG3	2.11	0.49
6:C:3276:TRP:HZ3	6:C:3303:THR:CB	2.22	0.49
6:C:3566:GLY:HA2	6:C:3569:GLN:HG2	1.94	0.49
1:A:43:ASP:CB	1:A:170:THR:HB	2.42	0.49
1:A:60:PHE:CZ	1:A:64:ILE:HD11	2.48	0.49
1:A:184:SER:HA	1:A:187:ARG:HG2	1.93	0.49
1:A:241:ASP:OD1	1:A:242:LEU:N	2.42	0.49
1:A:285:PRO:HA	2:B:314:PHE:CZ	2.48	0.49
1:A:345:LEU:HD11	1:A:400:TYR:CE1	2.48	0.49
1:A:397:LEU:HD11	1:A:437:LEU:HD11	1.94	0.49
1:A:438:PRO:HG2	2:B:479:THR:HB	1.94	0.49
2:B:66:ASN:ND2	2:B:77:ILE:HB	2.27	0.49
2:B:257:LEU:HD21	2:B:259:ILE:HD11	1.93	0.49
4:D:8:DT:C2	4:D:9:DG:C8	3.00	0.49
6:C:374:LYS:HG2	6:C:377:ASN:OD1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:389:ILE:HG21	6:C:431:TYR:CD1	2.45	0.49
6:C:395:MET:O	6:C:399:GLN:HG3	2.12	0.49
6:C:421:LEU:HD23	6:C:424:LEU:HD12	1.93	0.49
6:C:625:ASN:H	6:C:659:ARG:NH2	2.10	0.49
6:C:895:ALA:HB3	6:C:940:PHE:CE1	2.47	0.49
6:C:1009:LEU:O	6:C:1013:ILE:HG12	2.13	0.49
6:C:1946:ASN:CG	6:C:1994:VAL:HG23	2.33	0.49
6:C:2386:LEU:HD12	6:C:2401:VAL:HA	1.93	0.49
6:C:2962:ARG:HD3	6:C:3003:ASN:ND2	2.27	0.49
6:C:3125:ARG:C	6:C:3129:LEU:HG	2.33	0.49
6:C:3581:PRO:O	6:C:3584:LEU:HB2	2.13	0.49
6:C:3907:SER:OG	6:C:3908:HIS:N	2.46	0.49
1:A:74:LYS:O	1:A:78:SER:HA	2.12	0.49
1:A:92:LYS:HG2	1:A:93:ASP:N	2.27	0.49
1:A:172:GLU:OE2	1:A:175:PRO:HA	2.13	0.49
1:A:206:LYS:HZ1	1:A:208:PRO:HA	1.78	0.49
1:A:218:ARG:NH1	1:A:221:ILE:HG13	2.27	0.49
1:A:276:LEU:HA	2:B:431:ARG:HB3	1.94	0.49
1:A:304:ASN:OD1	1:A:306:SER:N	2.28	0.49
1:A:338:LYS:HB3	1:A:406:ILE:C	2.33	0.49
1:A:441:ASP:OD2	2:B:270:GLU:N	2.45	0.49
2:B:327:ASP:N	2:B:327:ASP:OD1	2.44	0.49
2:B:476:LEU:HB3	2:B:519:PRO:HD2	1.95	0.49
2:B:523:THR:O	2:B:527:GLN:NE2	2.46	0.49
6:C:175:TYR:CD1	6:C:223:CYS:HA	2.47	0.49
6:C:319:PHE:O	6:C:323:VAL:HG23	2.13	0.49
6:C:345:PHE:CZ	6:C:364:ARG:HA	2.42	0.49
6:C:567:GLU:O	6:C:570:LYS:N	2.45	0.49
6:C:584:GLU:CG	6:C:586:GLN:H	2.24	0.49
6:C:852:ARG:O	6:C:855:VAL:HB	2.12	0.49
6:C:938:VAL:HG22	6:C:962:TYR:CE2	2.48	0.49
6:C:978:GLN:HE21	6:C:982:GLN:HB2	1.77	0.49
6:C:1884:LEU:HA	6:C:1887:ASP:OD2	2.13	0.49
6:C:1938:ARG:HE	6:C:1983:ASP:CG	2.15	0.49
6:C:3084:GLN:O	6:C:3087:SER:N	2.45	0.49
6:C:3138:ILE:HD12	6:C:3189:PHE:HZ	1.77	0.49
6:C:3397:GLN:HB3	6:C:3398:PRO:HD3	1.94	0.49
6:C:3771:MET:HA	6:C:3774:ILE:HD13	1.95	0.49
6:C:4062:ASP:HA	6:C:4065:LEU:HD11	1.94	0.49
6:C:4113:ASP:O	6:C:4116:ILE:N	2.45	0.49
1:A:74:LYS:HD3	1:A:77:SER:OG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:LYS:HG3	1:A:101:ASN:CG	2.32	0.49
1:A:145:GLU:OE1	1:A:185:ARG:NE	2.46	0.49
4:D:-9:DC:H2''	4:D:-8:DT:O5'	2.10	0.49
4:D:9:DG:H1'	5:E:28:DA:C2	2.38	0.49
6:C:175:TYR:CZ	6:C:200:PHE:HD1	2.30	0.49
6:C:576:VAL:HA	6:C:601:TRP:HB2	1.95	0.49
6:C:703:CYS:O	6:C:707:PHE:HB3	2.13	0.49
6:C:1072:ALA:CB	6:C:1075:ARG:HG2	2.42	0.49
6:C:1141:LYS:H	6:C:1146:ASN:HD21	1.60	0.49
6:C:1164:CYS:HA	6:C:1256:TRP:CZ3	2.47	0.49
6:C:1302:ALA:O	6:C:1306:ILE:HD12	2.13	0.49
6:C:1878:ASP:HB2	6:C:1881:TYR:CD2	2.47	0.49
6:C:1952:ILE:HG12	6:C:1953:CYS:N	2.25	0.49
6:C:2028:LEU:HA	6:C:2030:TYR:CD2	2.47	0.49
6:C:2199:LEU:C	6:C:2202:PRO:HD2	2.33	0.49
6:C:2423:VAL:HG13	6:C:2424:MET:N	2.28	0.49
6:C:2452:ARG:O	6:C:2455:LEU:N	2.45	0.49
6:C:3036:TYR:HE2	6:C:3040:TYR:HB3	1.77	0.49
6:C:3249:GLN:O	6:C:3251:ASN:ND2	2.46	0.49
6:C:3479:THR:HG23	6:C:3480:LEU:HG	1.95	0.49
6:C:3505:LEU:HD12	6:C:3509:ASP:HB2	1.95	0.49
6:C:3807:GLU:O	6:C:3809:THR:OG1	2.30	0.49
1:A:288:LEU:O	2:B:310:ILE:HB	2.12	0.49
1:A:362:LEU:HA	2:B:359:ASN:O	2.13	0.49
1:A:372:GLU:HG2	1:A:379:SER:N	2.28	0.49
2:B:249:CYS:SG	2:B:339:CYS:HA	2.52	0.49
6:C:55:THR:O	6:C:56:SER:C	2.50	0.49
6:C:118:ASP:OD2	6:C:122:LYS:HG2	2.12	0.49
6:C:482:VAL:O	6:C:485:GLN:HB2	2.13	0.49
6:C:575:ILE:HG21	6:C:604:PRO:C	2.33	0.49
6:C:669:LEU:HD23	6:C:672:ILE:HD11	1.95	0.49
6:C:704:PHE:C	6:C:707:PHE:HB3	2.33	0.49
6:C:888:ARG:HB2	6:C:3889:ARG:HB2	1.95	0.49
6:C:1129:ASP:HA	6:C:1132:ASP:HB2	1.94	0.49
6:C:1638:PRO:O	6:C:1641:THR:N	2.46	0.49
6:C:2140:LEU:O	6:C:2143:ARG:CB	2.49	0.49
6:C:2156:VAL:O	6:C:2160:TYR:N	2.42	0.49
6:C:2230:VAL:HG12	6:C:2231:PHE:HD2	1.78	0.49
6:C:2936:TYR:CE2	6:C:2940:ARG:HB2	2.47	0.49
6:C:3329:LEU:HD12	6:C:3389:VAL:HG23	1.95	0.49
6:C:3426:LYS:NZ	6:C:3435:ASP:OD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3638:LYS:O	6:C:3642:LYS:HG3	2.12	0.49
6:C:3666:LEU:O	6:C:3670:MET:N	2.26	0.49
6:C:3678:GLY:HA3	6:C:3734:ARG:HH22	1.77	0.49
6:C:3789:ARG:NE	6:C:3938:ILE:HD13	2.28	0.49
6:C:3855:TYR:OH	6:C:4122:GLU:HG3	2.12	0.49
6:C:3872:ARG:NH1	6:C:4117:LEU:HD12	2.28	0.49
6:C:3951:GLN:NE2	6:C:4068:HIS:HB2	2.21	0.49
1:A:353:LEU:HD12	1:A:393:GLU:HA	1.95	0.49
1:A:421:ASP:CG	1:A:425:ILE:HG12	2.33	0.49
2:B:265:LYS:HZ3	5:E:28:DA:H5'	1.77	0.49
2:B:399:LYS:HG3	4:D:11:DC:C4'	2.37	0.49
5:E:29:DT:N3	5:E:30:DA:C5	2.81	0.49
5:E:44:DA:H4'	6:C:260:ILE:CD1	2.43	0.49
6:C:12:LEU:HA	6:C:38:LEU:HD22	1.93	0.49
6:C:382:ASP:N	6:C:382:ASP:OD1	2.45	0.49
6:C:563:LEU:HD11	6:C:1800:SER:HB3	1.95	0.49
6:C:1030:GLY:HA2	6:C:1033:ILE:HG22	1.94	0.49
6:C:1296:PHE:HE2	6:C:1361:LYS:HG2	1.77	0.49
6:C:1904:CYS:O	6:C:1908:GLY:N	2.31	0.49
6:C:1911:LEU:HD11	6:C:1913:LYS:HD2	1.95	0.49
6:C:1952:ILE:HG23	6:C:1956:PHE:HE1	1.78	0.49
6:C:2499:PHE:O	6:C:2502:ALA:HB3	2.12	0.49
6:C:2552:VAL:HA	6:C:2554:PHE:CE2	2.47	0.49
6:C:2874:ALA:O	6:C:2877:SER:N	2.45	0.49
6:C:2948:GLY:O	6:C:2951:GLN:HB2	2.13	0.49
6:C:3031:TRP:CZ3	6:C:3034:PRO:HD3	2.47	0.49
6:C:3413:TYR:CB	6:C:3449:LYS:HG2	2.43	0.49
6:C:3424:LEU:HB2	6:C:3439:LEU:HD11	1.93	0.49
6:C:3641:ASP:HA	6:C:3644:PHE:CD2	2.48	0.49
6:C:3718:ARG:HB2	6:C:3743:HIS:CG	2.48	0.49
6:C:3789:ARG:HH21	6:C:3940:ILE:HD12	1.78	0.49
6:C:3974:MET:HB2	6:C:3976:GLU:OE2	2.13	0.49
6:C:4038:TRP:CG	6:C:4039:TYR:N	2.80	0.49
1:A:194:ARG:O	1:A:197:GLY:N	2.39	0.48
1:A:406:ILE:HD12	1:A:407:PRO:HD2	1.95	0.48
2:B:339:CYS:SG	2:B:394:ARG:NE	2.86	0.48
5:E:16:DC:H2''	5:E:17:DA:H2'	1.95	0.48
6:C:43:VAL:O	6:C:46:SER:OG	2.20	0.48
6:C:287:LEU:HD11	6:C:291:VAL:HB	1.94	0.48
6:C:635:PRO:O	6:C:638:GLN:HB2	2.13	0.48
6:C:712:LYS:O	6:C:715:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:738:HIS:CE1	6:C:748:TYR:CG	3.01	0.48
6:C:908:ASP:C	6:C:2807:GLN:HE21	2.16	0.48
6:C:911:LEU:HD23	6:C:914:VAL:HG21	1.94	0.48
6:C:1422:LYS:HE3	6:C:1426:GLN:HG2	1.95	0.48
6:C:1934:LEU:HD12	6:C:1937:ARG:H	1.78	0.48
6:C:2307:MET:HA	6:C:2315:VAL:CB	2.40	0.48
6:C:2526:SER:HA	6:C:2530:ARG:HD3	1.93	0.48
6:C:2900:LEU:N	6:C:2902:PRO:HD2	2.28	0.48
6:C:3015:SER:OG	6:C:3043:TYR:HB3	2.13	0.48
6:C:3077:ILE:HG13	6:C:3078:LEU:H	1.78	0.48
6:C:3130:GLN:CG	6:C:3178:ILE:HG12	2.43	0.48
6:C:3148:GLN:HE21	6:C:3196:LYS:HE2	1.76	0.48
6:C:3865:THR:O	6:C:3869:THR:HG23	2.13	0.48
6:C:3963:LEU:HD12	6:C:3967:PHE:HD2	1.77	0.48
6:C:4065:LEU:CD1	6:C:4078:VAL:HG11	2.43	0.48
1:A:69:SER:HB2	1:A:239:LEU:HD11	1.95	0.48
1:A:339:ARG:NH1	1:A:405:ASN:HD22	2.11	0.48
1:A:384:ALA:HA	1:A:387:ILE:HD12	1.94	0.48
2:B:107:PHE:CE1	2:B:138:LEU:HD23	2.48	0.48
4:D:17:DG:H2''	4:D:18:DC:OP2	2.12	0.48
5:E:46:DT:H6	5:E:46:DT:O5'	1.97	0.48
6:C:109:ASN:O	6:C:112:THR:HB	2.12	0.48
6:C:111:CYS:HB3	6:C:134:LEU:HD22	1.95	0.48
6:C:847:SER:O	6:C:850:GLU:HB2	2.12	0.48
6:C:1016:GLY:HA2	6:C:1019:ASP:HB2	1.95	0.48
6:C:1216:GLY:HA2	6:C:1219:PHE:CD2	2.48	0.48
6:C:1256:TRP:CZ3	6:C:1259:LEU:HD12	2.48	0.48
6:C:1978:PHE:O	6:C:1982:ILE:HG13	2.13	0.48
6:C:2931:ARG:NE	6:C:2956:ALA:HB1	2.17	0.48
6:C:3180:ASP:O	6:C:3184:THR:HG23	2.13	0.48
6:C:3300:VAL:O	6:C:3303:THR:N	2.45	0.48
6:C:3475:TYR:O	6:C:3479:THR:HG22	2.12	0.48
6:C:3909:ALA:HA	6:C:3984:MET:HE1	1.94	0.48
6:C:3923:ARG:HA	6:C:3927:ASN:CB	2.37	0.48
6:C:3923:ARG:HD2	6:C:3928:PHE:CE2	2.49	0.48
1:A:44:ALA:HB3	1:A:88:TYR:O	2.14	0.48
1:A:477:SER:N	2:B:427:MET:SD	2.62	0.48
1:A:522:VAL:HG11	2:B:256:ASN:HB3	1.94	0.48
2:B:191:SER:HB2	2:B:232:ARG:NH2	2.27	0.48
2:B:487:PHE:CE1	2:B:488:GLN:HG2	2.49	0.48
4:D:4:DA:C2	5:E:33:DA:C4	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:411:PRO:HA	6:C:414:LEU:HB3	1.94	0.48
6:C:575:ILE:HA	6:C:578:LYS:HB2	1.95	0.48
6:C:616:LYS:O	6:C:620:PHE:HD2	1.95	0.48
6:C:675:ARG:O	6:C:678:LYS:HB3	2.13	0.48
6:C:743:LEU:HD23	6:C:783:HIS:HE1	1.77	0.48
6:C:977:ASP:HB2	6:C:980:THR:OG1	2.14	0.48
6:C:993:HIS:O	6:C:996:THR:OG1	2.30	0.48
6:C:1128:CYS:O	6:C:1131:ILE:HG12	2.13	0.48
6:C:1153:LEU:HB3	6:C:1157:PHE:CE2	2.47	0.48
6:C:1405:ALA:O	6:C:1410:PRO:HG2	2.14	0.48
6:C:1649:LEU:O	6:C:1652:ILE:N	2.47	0.48
6:C:2195:SER:HB2	6:C:2196:TRP:CE3	2.48	0.48
6:C:2227:LYS:CG	6:C:2232:ARG:HA	2.36	0.48
6:C:2549:LYS:HD3	6:C:2554:PHE:CG	2.48	0.48
6:C:2552:VAL:C	6:C:2554:PHE:HD2	2.17	0.48
6:C:2809:PHE:HA	6:C:2812:LEU:HG	1.95	0.48
6:C:2918:PRO:O	6:C:2921:LEU:HG	2.13	0.48
6:C:3008:TRP:CG	6:C:3009:LYS:N	2.80	0.48
6:C:3120:LEU:HA	6:C:3125:ARG:HH11	1.78	0.48
6:C:3681:LYS:HZ1	6:C:3725:ARG:HG2	1.78	0.48
6:C:3922:ASP:O	6:C:3923:ARG:HD3	2.13	0.48
6:C:4065:LEU:HD11	6:C:4078:VAL:HG11	1.95	0.48
1:A:89:GLY:HA2	1:A:101:ASN:HB3	1.95	0.48
1:A:132:GLN:HB3	1:A:137:HIS:HB3	1.94	0.48
1:A:294:GLU:HB3	2:B:298:ASN:ND2	2.27	0.48
2:B:33:GLN:HB3	2:B:227:PHE:HB3	1.96	0.48
2:B:35:LYS:O	2:B:39:THR:HB	2.13	0.48
2:B:66:ASN:ND2	2:B:74:TYR:HB3	2.29	0.48
2:B:352:GLN:HB2	2:B:355:PHE:CD2	2.48	0.48
6:C:79:ARG:HH22	6:C:121:ALA:HB3	1.78	0.48
6:C:204:LEU:HD13	6:C:220:LEU:HD23	1.94	0.48
6:C:382:ASP:HA	6:C:385:TYR:CZ	2.48	0.48
6:C:1339:VAL:HG23	6:C:1340:ARG:HG2	1.94	0.48
6:C:1996:VAL:HG12	6:C:2050:GLN:HE21	1.77	0.48
6:C:2154:GLU:OE1	6:C:2157:PHE:HD1	1.97	0.48
6:C:2327:LEU:O	6:C:2331:MET:HG3	2.13	0.48
6:C:2523:ASN:HB3	6:C:2527:HIS:NE2	2.27	0.48
6:C:2921:LEU:HD12	6:C:2922:ARG:HG2	1.94	0.48
6:C:3004:HIS:ND1	6:C:3046:ARG:HG2	2.29	0.48
6:C:3159:ARG:HG2	6:C:3161:LEU:H	1.78	0.48
6:C:3298:LEU:CA	6:C:3301:LEU:HB3	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3467:ARG:HA	6:C:3470:GLN:OE1	2.12	0.48
6:C:4085:LYS:HA	6:C:4088:ASN:CB	2.44	0.48
1:A:144:SER:CB	1:A:185:ARG:HG2	2.44	0.48
1:A:256:LEU:HG	5:E:38:DA:O4'	2.13	0.48
5:E:17:DA:H2''	5:E:18:DG:O4'	2.14	0.48
5:E:45:DG:H2'	5:E:46:DT:C5	2.49	0.48
6:C:381:VAL:HB	6:C:384:MET:HB2	1.95	0.48
6:C:393:LYS:HE2	6:C:397:LEU:HD13	1.95	0.48
6:C:531:PHE:N	6:C:531:PHE:CD1	2.80	0.48
6:C:706:LEU:HD21	6:C:1385:ASN:HB3	1.94	0.48
6:C:933:LEU:HD12	6:C:936:SER:HB2	1.96	0.48
6:C:1113:LEU:HA	6:C:1116:ALA:HB2	1.95	0.48
6:C:1250:LEU:O	6:C:1255:CYS:N	2.46	0.48
6:C:1437:TYR:HE2	6:C:1444:ASP:HB3	1.78	0.48
6:C:1549:SER:HA	6:C:1553:PHE:CD2	2.45	0.48
6:C:1676:ILE:HG23	6:C:1679:LEU:HD23	1.94	0.48
6:C:1889:VAL:HG23	6:C:1897:ASN:OD1	2.14	0.48
6:C:2169:LEU:HA	6:C:2172:ALA:HB3	1.96	0.48
6:C:2208:ASP:HA	6:C:2211:LEU:HD12	1.95	0.48
6:C:2252:PRO:HD2	6:C:2253:TYR:CE1	2.47	0.48
6:C:2446:LEU:HD22	6:C:2450:GLU:HG3	1.96	0.48
6:C:2546:TYR:HB3	6:C:2549:LYS:HZ1	1.78	0.48
6:C:2558:ALA:O	6:C:2561:PHE:HB2	2.14	0.48
6:C:3172:LYS:HB3	6:C:3179:TRP:HD1	1.78	0.48
6:C:3247:ARG:HH21	6:C:3278:GLN:HA	1.77	0.48
6:C:3815:LEU:HA	6:C:3818:ASN:HD21	1.78	0.48
6:C:3847:SER:HB3	6:C:3854:ALA:O	2.12	0.48
6:C:3888:VAL:HA	6:C:3891:SER:HB2	1.95	0.48
6:C:3951:GLN:HG3	6:C:4065:LEU:HA	1.96	0.48
6:C:3959:MET:HB3	6:C:3961:PHE:O	2.13	0.48
6:C:4011:PHE:HA	6:C:4015:ASN:HB2	1.95	0.48
6:C:4013:TRP:O	6:C:4017:GLU:HG3	2.13	0.48
6:C:4060:THR:O	6:C:4064:LEU:HG	2.12	0.48
6:C:4095:GLU:CG	6:C:4098:LEU:H	2.26	0.48
1:A:82:LEU:HG	1:A:110:ASN:N	2.27	0.48
1:A:412:ALA:HB2	1:A:437:LEU:HD21	1.96	0.48
2:B:13:CYS:HB3	2:B:134:ILE:HG13	1.95	0.48
2:B:108:LEU:HD13	2:B:146:GLN:H	1.78	0.48
2:B:135:PHE:HB3	2:B:227:PHE:CE1	2.48	0.48
5:E:23:DT:C4	5:E:24:DG:C6	3.01	0.48
5:E:39:DA:H2'	5:E:40:DT:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:17:GLU:CD	6:C:65:LEU:HD21	2.34	0.48
6:C:393:LYS:NZ	6:C:1865:THR:HG23	2.29	0.48
6:C:396:PHE:HZ	6:C:1814:PHE:CB	2.27	0.48
6:C:989:MET:HB2	6:C:2776:ARG:NH2	2.29	0.48
6:C:1160:SER:HB2	6:C:1165:LEU:HD21	1.95	0.48
6:C:1238:GLN:O	6:C:1241:LEU:HB3	2.14	0.48
6:C:1434:VAL:HA	6:C:1437:TYR:CD2	2.48	0.48
6:C:1564:SER:C	6:C:1567:ILE:HB	2.34	0.48
6:C:1632:TRP:O	6:C:1635:LYS:N	2.46	0.48
6:C:2192:THR:O	6:C:2195:SER:N	2.33	0.48
6:C:2276:LEU:CD1	6:C:2280:VAL:HG23	2.43	0.48
6:C:2478:MET:O	6:C:2481:HIS:N	2.47	0.48
6:C:2505:VAL:O	6:C:2508:GLN:HB2	2.12	0.48
6:C:2542:LEU:HG	6:C:2546:TYR:CE2	2.49	0.48
6:C:2911:ARG:HB2	6:C:2914:ALA:HB2	1.95	0.48
6:C:3038:GLU:HA	6:C:3041:LEU:HB2	1.95	0.48
6:C:3148:GLN:NE2	6:C:3196:LYS:HE2	2.29	0.48
6:C:3400:SER:O	6:C:3409:VAL:HG13	2.13	0.48
6:C:3538:GLU:HG3	6:C:3757:ASP:OD2	2.14	0.48
6:C:3612:ARG:O	6:C:3616:ALA:HB2	2.13	0.48
6:C:3652:LEU:HG	6:C:3653:ARG:NH1	2.28	0.48
6:C:3795:PRO:HA	6:C:3801:GLY:HA3	1.94	0.48
6:C:4080:VAL:O	6:C:4115:ASN:ND2	2.47	0.48
1:A:94:LYS:O	1:A:104:VAL:HG23	2.13	0.48
1:A:245:LYS:NZ	1:A:249:LYS:HD2	2.28	0.48
1:A:349:GLY:HA2	2:B:461:MET:HG2	1.96	0.48
2:B:386:ASP:CG	2:B:387:LEU:HG	2.34	0.48
2:B:455:ASP:HA	2:B:458:ILE:HD12	1.96	0.48
4:D:-2:DT:C4	5:E:38:DA:C6	3.02	0.48
4:D:-1:DA:C2	5:E:38:DA:H2	2.31	0.48
5:E:17:DA:H8	5:E:18:DG:C4	2.31	0.48
6:C:275:PHE:CE1	6:C:280:SER:HB2	2.48	0.48
6:C:446:PHE:HD1	6:C:448:GLN:CA	2.27	0.48
6:C:714:VAL:HG13	6:C:734:LEU:HD13	1.95	0.48
6:C:1062:ARG:HG3	6:C:1063:LEU:N	2.29	0.48
6:C:1107:TYR:CE2	6:C:1111:LEU:HD22	2.49	0.48
6:C:1280:GLN:HE21	6:C:1284:THR:HA	1.78	0.48
6:C:1805:PHE:CZ	6:C:1809:ASP:HA	2.48	0.48
6:C:2131:GLY:C	6:C:2137:ILE:HA	2.34	0.48
6:C:2218:PHE:CD2	6:C:2219:LEU:HD23	2.49	0.48
6:C:2226:PRO:HA	6:C:2229:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2241:LEU:O	6:C:2245:TRP:CD1	2.67	0.48
6:C:2254:ARG:HG3	6:C:2255:LEU:HG	1.96	0.48
6:C:2279:ILE:O	6:C:2282:ALA:HB3	2.12	0.48
6:C:2381:ALA:O	6:C:2383:PHE:N	2.47	0.48
6:C:2572:TYR:OH	6:C:2790:LEU:HA	2.14	0.48
6:C:2830:ASN:O	6:C:2834:GLN:HG2	2.14	0.48
6:C:2962:ARG:HH12	6:C:3008:TRP:HB3	1.74	0.48
6:C:3011:LEU:CD2	6:C:3047:SER:HA	2.44	0.48
6:C:3178:ILE:O	6:C:3181:ASP:N	2.47	0.48
6:C:3272:TRP:HB3	6:C:3276:TRP:NE1	2.28	0.48
6:C:3492:CYS:SG	6:C:3524:ASN:HB3	2.53	0.48
6:C:3522:THR:HG21	6:C:3558:ILE:HD12	1.96	0.48
6:C:3531:TYR:O	6:C:3533:PHE:N	2.47	0.48
6:C:3855:TYR:HA	6:C:3858:MET:HE3	1.96	0.48
1:A:40:PHE:CE2	1:A:71:TYR:HB2	2.44	0.48
1:A:336:GLU:HG3	1:A:339:ARG:CZ	2.43	0.48
1:A:413:LEU:CD2	1:A:434:LEU:HA	2.44	0.48
2:B:244:SER:HG	2:B:264:TYR:HD1	1.62	0.48
2:B:464:ALA:CA	2:B:475:ASP:HA	2.44	0.48
2:B:466:LYS:N	2:B:473:LEU:HG	2.29	0.48
2:B:511:HIS:HA	2:B:514:ASN:ND2	2.29	0.48
6:C:175:TYR:CZ	6:C:200:PHE:CD1	3.01	0.48
6:C:258:PRO:HB2	6:C:261:ASP:OD1	2.13	0.48
6:C:291:VAL:O	6:C:295:GLU:HG2	2.14	0.48
6:C:557:SER:HA	6:C:616:LYS:HZ3	1.79	0.48
6:C:752:LEU:HD12	6:C:753:GLN:N	2.29	0.48
6:C:1695:LEU:O	6:C:1698:PHE:N	2.38	0.48
6:C:2056:SER:HB2	6:C:2057:GLN:O	2.13	0.48
6:C:2251:ILE:HA	6:C:2253:TYR:CD2	2.48	0.48
6:C:2260:PHE:HE1	6:C:2270:ASN:HA	1.78	0.48
6:C:2430:GLU:O	6:C:2433:LYS:HB2	2.14	0.48
6:C:2779:ASP:O	6:C:2783:ILE:HG12	2.13	0.48
6:C:2976:LEU:HB3	6:C:2978:LYS:NZ	2.28	0.48
6:C:3182:ILE:O	6:C:3185:ASN:N	2.45	0.48
6:C:3611:GLU:O	6:C:3615:ALA:HB3	2.13	0.48
6:C:3791:TYR:CE2	6:C:3942:PHE:CE2	3.01	0.48
6:C:3862:ALA:O	6:C:3866:GLU:HG3	2.13	0.48
6:C:3927:ASN:HA	6:C:3929:MET:HE2	1.95	0.48
1:A:50:GLU:O	1:A:58:THR:OG1	2.25	0.48
1:A:99:PHE:HZ	6:C:2418:LYS:HE2	1.78	0.48
1:A:338:LYS:NZ	1:A:404:ARG:O	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:80:HIS:HE2	2:B:81:ARG:HH21	1.61	0.48
2:B:132:ILE:N	2:B:159:ILE:HG23	2.29	0.48
2:B:229:GLU:HA	2:B:232:ARG:HG3	1.96	0.48
2:B:400:ARG:HD3	4:D:10:DG:O4'	2.13	0.48
4:D:-9:DC:O5'	4:D:-9:DC:H6	1.96	0.48
4:D:-2:DT:H6	4:D:-2:DT:O5'	1.96	0.48
5:E:45:DG:H2'	5:E:46:DT:C6	2.49	0.48
6:C:10:CYS:O	6:C:13:LEU:N	2.46	0.48
6:C:96:MET:HB3	6:C:98:GLN:O	2.14	0.48
6:C:166:ILE:HD12	6:C:170:VAL:HG13	1.96	0.48
6:C:169:THR:OG1	6:C:170:VAL:N	2.46	0.48
6:C:207:GLN:HE22	6:C:219:VAL:HB	1.78	0.48
6:C:396:PHE:CZ	6:C:1814:PHE:HB2	2.46	0.48
6:C:850:GLU:HA	6:C:853:ILE:CD1	2.44	0.48
6:C:929:ALA:HB1	6:C:2798:ALA:CB	2.44	0.48
6:C:995:PHE:CG	6:C:1002:GLU:HB2	2.49	0.48
6:C:2049:VAL:HA	6:C:2052:TYR:CD2	2.49	0.48
6:C:2200:ALA:O	6:C:2203:THR:HG22	2.13	0.48
6:C:2300:PHE:O	6:C:2304:VAL:HG23	2.14	0.48
6:C:2315:VAL:O	6:C:2318:ALA:HB3	2.14	0.48
6:C:2381:ALA:C	6:C:2383:PHE:N	2.67	0.48
6:C:2916:LEU:HD22	6:C:2990:GLU:HG3	1.94	0.48
6:C:2928:LYS:HA	6:C:2931:ARG:HH22	1.79	0.48
6:C:2936:TYR:O	6:C:2936:TYR:CG	2.67	0.48
6:C:2977:ASN:CB	6:C:2980:ASP:HB2	2.44	0.48
6:C:3135:LEU:O	6:C:3138:ILE:N	2.45	0.48
6:C:3194:GLU:HG3	6:C:3197:LEU:HD12	1.96	0.48
6:C:3272:TRP:C	6:C:3276:TRP:HD1	2.17	0.48
6:C:3761:ASP:HA	6:C:3764:VAL:HG23	1.96	0.48
1:A:143:LEU:N	1:A:185:ARG:HH21	2.12	0.48
1:A:247:ARG:HA	1:A:247:ARG:HD3	1.58	0.48
1:A:247:ARG:HD2	1:A:501:GLU:OE1	2.13	0.48
1:A:304:ASN:H	1:A:309:GLY:C	2.16	0.48
1:A:325:ARG:NH1	2:B:498:ALA:O	2.47	0.48
1:A:407:PRO:HG2	1:A:409:TYR:OH	2.14	0.48
1:A:407:PRO:HG3	2:B:486:ARG:HG3	1.95	0.48
2:B:83:LEU:HD12	2:B:121:GLU:HB2	1.96	0.48
2:B:345:PHE:HD1	2:B:391:ALA:HA	1.79	0.48
2:B:508:ILE:HG13	2:B:510:GLN:NE2	2.29	0.48
2:B:540:ILE:O	2:B:541:GLU:HB2	2.14	0.48
6:C:60:SER:HB3	6:C:103:TYR:OH	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:338:LEU:HD23	6:C:342:MET:HG3	1.95	0.48
6:C:345:PHE:O	6:C:348:ILE:N	2.44	0.48
6:C:455:LEU:O	6:C:458:CYS:HB2	2.13	0.48
6:C:468:LEU:CA	6:C:471:LYS:HE3	2.40	0.48
6:C:471:LYS:HZ3	6:C:474:VAL:H	1.62	0.48
6:C:527:TYR:CE2	6:C:531:PHE:HZ	2.32	0.48
6:C:745:VAL:HG13	6:C:748:TYR:CD2	2.49	0.48
6:C:754:MET:CE	6:C:1020:PRO:HG3	2.44	0.48
6:C:925:GLN:CD	6:C:2801:ASP:HB3	2.34	0.48
6:C:1034:ARG:NE	6:C:1037:LEU:HD23	2.29	0.48
6:C:1122:GLY:C	6:C:1124:ILE:HG13	2.34	0.48
6:C:1144:SER:O	6:C:1148:ALA:HB2	2.14	0.48
6:C:1145:LEU:O	6:C:1150:LYS:NZ	2.42	0.48
6:C:1254:LEU:HA	6:C:1258:ASP:OD2	2.13	0.48
6:C:1298:LEU:HA	6:C:1301:ILE:HB	1.95	0.48
6:C:1453:SER:HA	6:C:1456:LYS:HG3	1.95	0.48
6:C:2039:GLU:HB2	6:C:2073:ASP:OD2	2.14	0.48
6:C:2212:ALA:O	6:C:2216:LEU:HG	2.14	0.48
6:C:2492:ASP:OD2	6:C:2494:ASP:N	2.46	0.48
6:C:3108:GLN:HA	6:C:3111:MET:SD	2.54	0.48
6:C:3495:PHE:CZ	6:C:3502:MET:HB2	2.49	0.48
6:C:3770:VAL:O	6:C:3773:GLY:CA	2.62	0.48
6:C:3838:GLU:O	6:C:3841:ASP:HB2	2.14	0.48
6:C:3869:THR:OG1	6:C:3870:SER:N	2.47	0.48
6:C:3878:VAL:N	6:C:3879:PRO:HD2	2.29	0.48
6:C:4039:TYR:HB3	6:C:4042:GLN:H	1.79	0.48
1:A:290:ARG:HH22	2:B:307:LYS:HG3	1.78	0.47
1:A:397:LEU:HD23	2:B:477:PHE:HD2	1.78	0.47
1:A:416:GLN:CD	1:A:428:THR:HB	2.33	0.47
2:B:76:ASN:HD22	2:B:105:ALA:N	2.12	0.47
2:B:227:PHE:O	2:B:230:SER:HB2	2.14	0.47
4:D:-3:DT:P	6:C:169:THR:HG21	2.53	0.47
4:D:7:DA:N6	5:E:28:DA:N6	2.62	0.47
5:E:19:DC:O2	5:E:20:DT:H1'	2.13	0.47
6:C:33:GLN:O	6:C:36:ARG:HB2	2.14	0.47
6:C:61:ARG:O	6:C:65:LEU:HG	2.13	0.47
6:C:85:ILE:HG22	6:C:89:LEU:HG	1.94	0.47
6:C:343:GLU:HA	6:C:346:TYR:HB3	1.96	0.47
6:C:349:ILE:HG23	6:C:368:LEU:HD21	1.96	0.47
6:C:442:GLN:OE1	6:C:443:ILE:HG12	2.14	0.47
6:C:628:GLU:OE2	6:C:634:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:756:PHE:HB3	6:C:773:LEU:HD13	1.95	0.47
6:C:776:TRP:CZ2	6:C:780:ILE:HG13	2.49	0.47
6:C:1135:CYS:CA	6:C:1138:ILE:HB	2.43	0.47
6:C:1238:GLN:OE1	6:C:1298:LEU:HG	2.14	0.47
6:C:1301:ILE:HD13	6:C:1304:HIS:ND1	2.29	0.47
6:C:1406:LEU:O	6:C:1410:PRO:HB2	2.14	0.47
6:C:1763:THR:HB	6:C:1857:LYS:HB3	1.95	0.47
6:C:2023:SER:HA	6:C:2069:ARG:HE	1.79	0.47
6:C:2032:ALA:HB1	6:C:2035:THR:OG1	2.13	0.47
6:C:2324:GLY:HA3	6:C:2370:SER:HB3	1.96	0.47
6:C:2482:ASP:HA	6:C:2485:ARG:HE	1.79	0.47
6:C:2799:GLN:C	6:C:2802:PRO:HD2	2.35	0.47
6:C:2929:LEU:O	6:C:2933:ILE:HG13	2.14	0.47
6:C:3026:ASP:O	6:C:3030:ILE:HB	2.14	0.47
6:C:3353:GLU:HB3	6:C:3373:VAL:N	2.29	0.47
6:C:3718:ARG:HD2	6:C:3743:HIS:CD2	2.48	0.47
6:C:3858:MET:C	6:C:3864:ARG:HH21	2.17	0.47
1:A:166:ILE:HB	1:A:200:LEU:HB2	1.96	0.47
1:A:272:GLY:O	1:A:368:VAL:HG13	2.14	0.47
1:A:359:HIS:HB3	1:A:360:HIS:HD2	1.79	0.47
1:A:366:LEU:O	1:A:434:LEU:HD22	2.14	0.47
2:B:152:HIS:HA	2:B:155:LYS:HG3	1.96	0.47
4:D:1:DG:C6	4:D:2:DG:C6	3.03	0.47
6:C:10:CYS:HA	6:C:13:LEU:HB2	1.96	0.47
6:C:343:GLU:HA	6:C:346:TYR:CB	2.44	0.47
6:C:416:SER:O	6:C:420:VAL:HG23	2.14	0.47
6:C:1080:LEU:HD23	6:C:1127:CYS:HA	1.96	0.47
6:C:1333:SER:O	6:C:1336:THR:N	2.47	0.47
6:C:1407:LYS:HA	6:C:1412:LYS:HZ3	1.80	0.47
6:C:1708:GLU:HA	6:C:1711:ARG:CZ	2.45	0.47
6:C:1963:GLN:OE1	6:C:1966:LEU:HD12	2.13	0.47
6:C:1981:LEU:O	6:C:1984:LEU:HB3	2.13	0.47
6:C:1981:LEU:O	6:C:1985:LYS:HG2	2.13	0.47
6:C:2475:ASN:O	6:C:2478:MET:HB2	2.13	0.47
6:C:2525:TRP:CZ3	6:C:2529:THR:HG21	2.49	0.47
6:C:2921:LEU:HD12	6:C:2922:ARG:N	2.29	0.47
6:C:3130:GLN:HG3	6:C:3178:ILE:HG23	1.97	0.47
1:A:114:LYS:HE3	1:A:117:LEU:HD22	1.96	0.47
1:A:330:GLU:HG3	1:A:332:GLU:N	2.29	0.47
1:A:365:SER:OG	1:A:366:LEU:O	2.18	0.47
1:A:486:HIS:ND1	1:A:489:ASN:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:13:CYS:HG	2:B:59:PHE:HE2	1.60	0.47
2:B:148:ASP:HA	2:B:151:ILE:HB	1.97	0.47
2:B:151:ILE:HG22	2:B:155:LYS:HZ2	1.79	0.47
2:B:185:LEU:O	2:B:231:LEU:HB2	2.14	0.47
2:B:340:PHE:HA	2:B:394:ARG:O	2.14	0.47
2:B:408:ALA:HA	2:B:420:VAL:O	2.15	0.47
6:C:108:LYS:HE3	6:C:153:PHE:CE2	2.49	0.47
6:C:194:GLU:O	6:C:198:ARG:HG3	2.15	0.47
6:C:291:VAL:HG11	6:C:344:GLN:HG3	1.97	0.47
6:C:568:PHE:CE1	6:C:604:PRO:HB3	2.48	0.47
6:C:659:ARG:HG3	6:C:663:ILE:HG12	1.96	0.47
6:C:792:ILE:HG22	6:C:796:LEU:CG	2.44	0.47
6:C:792:ILE:HG22	6:C:796:LEU:HG	1.95	0.47
6:C:878:GLU:OE1	6:C:881:LYS:HD3	2.14	0.47
6:C:964:ARG:HH12	6:C:971:ARG:NH2	2.13	0.47
6:C:1080:LEU:HD23	6:C:1127:CYS:SG	2.54	0.47
6:C:1103:ALA:O	6:C:1107:TYR:HB2	2.13	0.47
6:C:1171:TRP:CZ3	6:C:1176:CYS:SG	3.07	0.47
6:C:1594:SER:OG	6:C:1595:ALA:N	2.44	0.47
6:C:2083:LEU:HD22	6:C:2178:GLY:N	2.30	0.47
6:C:2253:TYR:O	6:C:2256:ILE:HB	2.13	0.47
6:C:2349:LEU:HD23	6:C:2350:LYS:N	2.29	0.47
6:C:2363:CYS:C	6:C:2365:ASN:N	2.67	0.47
6:C:2395:THR:O	6:C:2398:LEU:HB3	2.15	0.47
6:C:2542:LEU:HG	6:C:2546:TYR:OH	2.14	0.47
6:C:2808:LEU:HB2	6:C:2809:PHE:CE1	2.48	0.47
6:C:2907:ALA:O	6:C:2910:VAL:HG12	2.15	0.47
6:C:2928:LYS:HE2	6:C:3784:ARG:HH22	1.79	0.47
6:C:3290:SER:HB3	6:C:3992:ARG:HH22	1.80	0.47
6:C:3608:LYS:HA	6:C:3611:GLU:CD	2.34	0.47
6:C:3762:GLN:O	6:C:3766:GLN:HG3	2.13	0.47
6:C:3763:ARG:NH2	6:C:4008:GLU:HB3	2.28	0.47
6:C:3821:SER:H	6:C:3829:LEU:HD23	1.79	0.47
6:C:4055:ASN:HD22	6:C:4107:LEU:HD11	1.77	0.47
1:A:61:ASP:O	1:A:64:ILE:N	2.47	0.47
1:A:148:TRP:O	1:A:152:ASN:HB2	2.14	0.47
1:A:189:LYS:HA	1:A:192:ASP:OD2	2.14	0.47
1:A:282:LYS:NZ	5:E:31:DA:OP2	2.31	0.47
1:A:409:TYR:OH	2:B:486:ARG:HB2	2.14	0.47
1:A:459:VAL:HA	1:A:462:MET:HB2	1.96	0.47
1:A:534:TYR:CZ	2:B:260:ARG:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:365:PHE:CG	2:B:366:ALA:N	2.83	0.47
2:B:376:ALA:O	2:B:379:SER:HB2	2.14	0.47
4:D:-7:DA:C2	5:E:44:DA:C2	3.02	0.47
5:E:29:DT:O4	5:E:30:DA:N6	2.47	0.47
6:C:103:TYR:O	6:C:107:ILE:HB	2.13	0.47
6:C:563:LEU:O	6:C:566:ASP:HB2	2.14	0.47
6:C:746:ARG:N	6:C:748:TYR:CE2	2.70	0.47
6:C:957:PRO:HA	6:C:960:GLN:HB3	1.95	0.47
6:C:1034:ARG:NH1	6:C:1034:ARG:O	2.41	0.47
6:C:1239:PRO:HA	6:C:1242:LEU:HD12	1.96	0.47
6:C:1758:LEU:HB3	6:C:1761:LEU:HB3	1.96	0.47
6:C:1873:TYR:CD2	6:C:1873:TYR:N	2.82	0.47
6:C:1896:ILE:O	6:C:1899:VAL:HB	2.14	0.47
6:C:1930:GLU:O	6:C:1931:ASN:ND2	2.47	0.47
6:C:1981:LEU:HA	6:C:1984:LEU:HB3	1.95	0.47
6:C:1988:TYR:C	6:C:1991:PRO:HD2	2.34	0.47
6:C:2024:TYR:CZ	6:C:2069:ARG:HA	2.49	0.47
6:C:2196:TRP:CD1	6:C:2200:ALA:N	2.82	0.47
6:C:2218:PHE:HD2	6:C:2219:LEU:HD23	1.79	0.47
6:C:2350:LYS:NZ	6:C:2377:ARG:HB3	2.29	0.47
6:C:2510:LEU:HD13	6:C:2522:ARG:NH1	2.29	0.47
6:C:2526:SER:HA	6:C:2530:ARG:CB	2.45	0.47
6:C:3037:GLN:HG2	6:C:3040:TYR:CE2	2.48	0.47
6:C:3042:PRO:O	6:C:3045:ILE:HG12	2.14	0.47
6:C:3520:GLU:O	6:C:3523:ASP:HB2	2.14	0.47
6:C:3588:TRP:O	6:C:3592:VAL:HB	2.14	0.47
6:C:3908:HIS:O	6:C:3911:ILE:HB	2.15	0.47
1:A:72:ILE:HD11	1:A:495:LEU:HD21	1.97	0.47
1:A:174:ASN:HD21	1:A:177:GLY:N	2.12	0.47
1:A:474:ARG:O	1:A:478:PHE:HE2	1.96	0.47
2:B:58:LEU:HB3	2:B:61:THR:HG21	1.96	0.47
2:B:138:LEU:HD13	2:B:204:GLY:C	2.33	0.47
2:B:197:ILE:HD13	2:B:202:LYS:HE2	1.97	0.47
2:B:242:ARG:NH1	2:B:243:HIS:O	2.48	0.47
2:B:268:LEU:HD13	2:B:360:GLN:CA	2.45	0.47
2:B:527:GLN:O	2:B:530:LEU:HB2	2.14	0.47
6:C:336:ASN:HB3	6:C:340:TYR:HE2	1.80	0.47
6:C:395:MET:HB2	6:C:413:PHE:CZ	2.50	0.47
6:C:441:MET:HB2	6:C:1814:PHE:CD1	2.49	0.47
6:C:668:LYS:HD2	6:C:668:LYS:N	2.29	0.47
6:C:1139:GLU:CD	6:C:1141:LYS:HZ2	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1139:GLU:HA	6:C:1146:ASN:HD21	1.79	0.47
6:C:1173:LEU:HA	6:C:1177:GLY:H	1.79	0.47
6:C:1280:GLN:CD	6:C:1357:LYS:HE2	2.35	0.47
6:C:2019:SER:HA	6:C:2045:PHE:CZ	2.49	0.47
6:C:2192:THR:HA	6:C:2195:SER:OG	2.13	0.47
6:C:2386:LEU:O	6:C:2389:PHE:HB2	2.14	0.47
6:C:2417:SER:HB2	6:C:2418:LYS:HD2	1.96	0.47
6:C:2517:LEU:HA	6:C:2520:ILE:HG12	1.96	0.47
6:C:3391:ALA:O	6:C:3395:GLU:HG3	2.15	0.47
6:C:3951:GLN:OE1	6:C:4064:LEU:HB3	2.14	0.47
1:A:132:GLN:HB3	1:A:137:HIS:CB	2.45	0.47
1:A:182:LYS:HG2	1:A:185:ARG:HH22	1.79	0.47
1:A:311:LEU:C	1:A:312:LEU:HD12	2.34	0.47
4:D:-2:DT:C2	5:E:39:DA:H2	2.31	0.47
6:C:47:SER:O	6:C:52:ALA:N	2.47	0.47
6:C:280:SER:C	6:C:282:PHE:HD2	2.17	0.47
6:C:537:SER:OG	6:C:538:ASP:OD1	2.33	0.47
6:C:560:LEU:HD21	6:C:655:LEU:HD23	1.96	0.47
6:C:620:PHE:CA	6:C:623:PHE:HB3	2.44	0.47
6:C:888:ARG:HH12	6:C:3892:THR:HA	1.80	0.47
6:C:959:TYR:O	6:C:962:TYR:HB3	2.15	0.47
6:C:1113:LEU:HG	6:C:1163:LEU:HB2	1.96	0.47
6:C:1132:ASP:O	6:C:1171:TRP:HZ2	1.97	0.47
6:C:1342:MET:HA	6:C:1345:THR:CB	2.43	0.47
6:C:1356:TRP:CH2	6:C:1411:TYR:HD2	2.32	0.47
6:C:1387:GLY:HA2	6:C:1392:MET:H	1.79	0.47
6:C:1435:ASN:HD21	6:C:1485:SER:HB2	1.79	0.47
6:C:1464:LEU:HD12	6:C:1465:HIS:N	2.29	0.47
6:C:1936:ARG:O	6:C:1939:LEU:N	2.47	0.47
6:C:2034:SER:HA	6:C:2038:GLU:OE2	2.15	0.47
6:C:2068:ARG:HH21	6:C:2128:PHE:HA	1.79	0.47
6:C:2222:HIS:O	6:C:2226:PRO:HD3	2.15	0.47
6:C:2346:ALA:O	6:C:2347:LYS:C	2.53	0.47
6:C:2472:GLN:HA	6:C:2475:ASN:HB3	1.97	0.47
6:C:2501:LEU:HA	6:C:2504:ASP:OD2	2.14	0.47
6:C:2808:LEU:HD12	6:C:2809:PHE:HE1	1.79	0.47
6:C:2809:PHE:O	6:C:2812:LEU:HB2	2.14	0.47
6:C:3172:LYS:HE2	6:C:3172:LYS:HB2	1.73	0.47
6:C:3309:GLU:HA	6:C:3312:VAL:CG1	2.42	0.47
6:C:3335:ARG:HG2	6:C:3341:LEU:HG	1.96	0.47
6:C:3505:LEU:HA	6:C:3509:ASP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3924:HIS:O	6:C:4124:TRP:HA	2.15	0.47
6:C:4029:GLN:O	6:C:4033:VAL:HG22	2.15	0.47
6:C:4073:ALA:HA	6:C:4119:ARG:HH22	1.80	0.47
1:A:58:THR:HG23	1:A:61:ASP:N	2.25	0.47
1:A:76:ILE:HG12	1:A:487:PHE:CD1	2.50	0.47
1:A:189:LYS:O	1:A:189:LYS:HG2	2.14	0.47
1:A:311:LEU:HD21	2:B:288:ASP:HB3	1.96	0.47
1:A:455:THR:OG1	1:A:457:GLU:HG2	2.15	0.47
1:A:465:ILE:HG13	1:A:525:PHE:HZ	1.75	0.47
1:A:488:ARG:O	1:A:491:GLU:HB2	2.14	0.47
2:B:154:LEU:HB3	2:B:159:ILE:HB	1.95	0.47
2:B:314:PHE:HB2	2:B:321:VAL:CB	2.43	0.47
4:D:-6:DT:C2	4:D:-5:DT:C2	3.02	0.47
4:D:4:DA:C2	5:E:33:DA:C2	3.03	0.47
4:D:4:DA:C4	4:D:5:DT:C5	3.03	0.47
6:C:82:ARG:NH2	6:C:117:LYS:HE2	2.29	0.47
6:C:127:ALA:HA	6:C:130:LEU:HB2	1.96	0.47
6:C:254:LYS:HG3	6:C:256:ILE:HG13	1.95	0.47
6:C:263:LYS:HA	6:C:266:ALA:HB3	1.96	0.47
6:C:342:MET:SD	6:C:371:GLY:HA2	2.55	0.47
6:C:352:VAL:HA	6:C:355:ASN:OD1	2.14	0.47
6:C:444:ASP:OD1	6:C:533:HIS:ND1	2.42	0.47
6:C:574:LYS:O	6:C:577:GLU:N	2.48	0.47
6:C:741:ILE:O	6:C:742:GLU:C	2.53	0.47
6:C:939:MET:HG2	6:C:2783:ILE:HG22	1.97	0.47
6:C:984:TYR:O	6:C:988:VAL:HG13	2.14	0.47
6:C:1019:ASP:N	6:C:1019:ASP:OD1	2.47	0.47
6:C:1170:LYS:HA	6:C:1267:TYR:CE1	2.49	0.47
6:C:1701:SER:C	6:C:1705:GLY:HA3	2.35	0.47
6:C:1745:LYS:O	6:C:1749:ALA:HB3	2.13	0.47
6:C:1884:LEU:O	6:C:1887:ASP:HB2	2.14	0.47
6:C:1974:ASN:ND2	6:C:1984:LEU:HD13	2.15	0.47
6:C:2183:HIS:HE1	6:C:2237:ILE:HB	1.79	0.47
6:C:2186:VAL:HA	6:C:2189:ILE:CB	2.40	0.47
6:C:2371:PHE:CE2	6:C:2378:PHE:HE2	2.20	0.47
6:C:2427:ARG:CZ	6:C:2432:GLN:HB2	2.44	0.47
6:C:2481:HIS:HA	6:C:2484:TYR:HD2	1.80	0.47
6:C:2806:LYS:HG2	6:C:2809:PHE:CE2	2.50	0.47
6:C:2820:MET:HB3	6:C:2829:LYS:HG3	1.96	0.47
6:C:2869:LEU:HD11	6:C:2892:LEU:HD12	1.96	0.47
6:C:3094:ASP:OD1	6:C:3145:ILE:HG21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3167:ARG:NH2	6:C:3238:MET:HB2	2.30	0.47
6:C:3236:PHE:O	6:C:3240:MET:HG2	2.14	0.47
6:C:3500:SER:HB2	6:C:3762:GLN:CD	2.33	0.47
6:C:3531:TYR:CZ	6:C:3534:ILE:HB	2.50	0.47
6:C:3575:LEU:HG	6:C:3687:MET:SD	2.55	0.47
6:C:3593:ARG:HG3	6:C:3660:ASN:HD22	1.79	0.47
6:C:3760:GLN:HG2	6:C:3761:ASP:N	2.30	0.47
6:C:3763:ARG:HH12	6:C:4009:PRO:HG3	1.79	0.47
6:C:3844:THR:HB	6:C:3849:LYS:CD	2.44	0.47
6:C:3964:THR:O	6:C:3967:PHE:HB2	2.15	0.47
6:C:4065:LEU:HB2	6:C:4074:PHE:CD1	2.49	0.47
1:A:314:SER:OG	1:A:315:ASP:OD1	2.30	0.47
1:A:413:LEU:HA	1:A:433:GLN:O	2.15	0.47
1:A:419:GLU:OE1	1:A:427:VAL:HG22	2.15	0.47
2:B:155:LYS:NZ	2:B:215:LEU:HA	2.30	0.47
2:B:527:GLN:HA	2:B:530:LEU:HD12	1.96	0.47
6:C:80:GLU:O	6:C:83:GLU:HB2	2.15	0.47
6:C:172:GLU:O	6:C:176:GLU:N	2.48	0.47
6:C:481:THR:HA	6:C:484:HIS:CG	2.49	0.47
6:C:969:LEU:HD21	6:C:984:TYR:CD2	2.49	0.47
6:C:995:PHE:CB	6:C:1002:GLU:HB2	2.45	0.47
6:C:1217:VAL:HA	6:C:1271:ILE:CG2	2.45	0.47
6:C:1220:LEU:CD1	6:C:1271:ILE:HG21	2.45	0.47
6:C:1492:ALA:HB1	6:C:1496:GLU:HB3	1.97	0.47
6:C:1860:GLU:O	6:C:1863:PHE:HB3	2.15	0.47
6:C:2375:ALA:HA	6:C:2378:PHE:CE2	2.50	0.47
6:C:2420:PHE:HZ	6:C:2424:MET:SD	2.38	0.47
6:C:2427:ARG:HH12	6:C:2433:LYS:HB2	1.80	0.47
6:C:2839:ASP:HA	6:C:2842:ARG:NH1	2.30	0.47
6:C:2914:ALA:O	6:C:2917:PRO:HD2	2.15	0.47
6:C:3021:SER:O	6:C:3024:PRO:HD3	2.15	0.47
6:C:3046:ARG:HD2	6:C:3049:LEU:HD12	1.96	0.47
6:C:3231:ILE:HG13	6:C:3235:LYS:NZ	2.30	0.47
6:C:3232:ARG:HA	6:C:3235:LYS:HD2	1.97	0.47
6:C:3262:LEU:HG	6:C:3271:ASP:OD1	2.15	0.47
6:C:3375:ALA:O	6:C:3378:TYR:HB3	2.14	0.47
6:C:3591:ASP:OD2	6:C:3799:ARG:NH2	2.40	0.47
6:C:3770:VAL:O	6:C:3774:ILE:HD12	2.14	0.47
6:C:3815:LEU:HB3	6:C:3886:ALA:HB1	1.96	0.47
1:A:95:ASN:OD1	1:A:97:VAL:N	2.48	0.47
2:B:115:MET:SD	2:B:150:ILE:HG12	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:16:DG:N1	5:E:19:DC:H2''	2.30	0.47
6:C:260:ILE:HD13	6:C:260:ILE:H	1.80	0.47
6:C:436:GLU:O	6:C:440:VAL:HG13	2.15	0.47
6:C:700:LYS:HD3	6:C:701:TYR:CZ	2.50	0.47
6:C:710:PHE:HB3	6:C:714:VAL:CG2	2.45	0.47
6:C:727:ALA:HB1	6:C:731:THR:CG2	2.45	0.47
6:C:929:ALA:O	6:C:932:GLU:HB2	2.15	0.47
6:C:1379:PRO:CA	6:C:1384:PHE:HB2	2.42	0.47
6:C:1963:GLN:HE22	6:C:1966:LEU:HD12	1.79	0.47
6:C:2292:CYS:O	6:C:2299:TYR:HB2	2.15	0.47
6:C:2362:VAL:HA	6:C:2365:ASN:OD1	2.14	0.47
6:C:2400:VAL:O	6:C:2401:VAL:C	2.53	0.47
6:C:2525:TRP:CH2	6:C:2529:THR:HG21	2.50	0.47
6:C:2812:LEU:O	6:C:2816:ILE:HG22	2.15	0.47
6:C:2838:GLN:O	6:C:2841:ASN:N	2.43	0.47
6:C:2930:TYR:O	6:C:2933:ILE:HB	2.15	0.47
6:C:2933:ILE:HA	6:C:3979:LEU:HD22	1.97	0.47
6:C:3019:ILE:HD12	6:C:3040:TYR:CZ	2.49	0.47
6:C:3167:ARG:NE	6:C:3238:MET:HA	2.30	0.47
6:C:3508:LYS:HE2	6:C:4010:SER:H	1.80	0.47
6:C:3604:LYS:HA	6:C:3607:GLU:HB3	1.96	0.47
6:C:3980:MET:O	6:C:3984:MET:HG2	2.15	0.47
6:C:4071:ALA:HA	6:C:4075:ARG:HB2	1.97	0.47
1:A:166:ILE:CG2	1:A:200:LEU:HD12	2.42	0.47
1:A:367:PHE:HE2	1:A:369:TYR:HB2	1.79	0.47
1:A:481:PRO:O	1:A:484:GLN:HB3	2.14	0.47
2:B:400:ARG:HB3	4:D:10:DG:H4'	1.97	0.47
6:C:196:LEU:O	6:C:199:ALA:N	2.28	0.47
6:C:291:VAL:HA	6:C:294:PHE:CB	2.45	0.47
6:C:337:LYS:HA	6:C:340:TYR:CG	2.49	0.47
6:C:471:LYS:HD2	6:C:474:VAL:HG23	1.95	0.47
6:C:542:ASP:OD1	6:C:542:ASP:N	2.48	0.47
6:C:757:LYS:O	6:C:761:SER:N	2.43	0.47
6:C:887:ASP:HB3	6:C:3889:ARG:NH2	2.27	0.47
6:C:965:THR:O	6:C:968:VAL:N	2.33	0.47
6:C:996:THR:OG1	6:C:1038:LYS:HG2	2.14	0.47
6:C:1267:TYR:HA	6:C:1270:PHE:CD2	2.50	0.47
6:C:1298:LEU:HA	6:C:1301:ILE:HG12	1.97	0.47
6:C:1504:ASP:O	6:C:1507:CYS:HB3	2.15	0.47
6:C:1642:LYS:O	6:C:1645:VAL:N	2.48	0.47
6:C:2243:GLU:C	6:C:2246:LYS:HZ1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2251:ILE:HG13	6:C:2253:TYR:CE2	2.50	0.47
6:C:2517:LEU:HA	6:C:2520:ILE:CG1	2.45	0.47
6:C:2851:PHE:HA	6:C:2854:PHE:CD1	2.50	0.47
6:C:3102:TYR:HA	6:C:3105:ASN:ND2	2.30	0.47
6:C:3252:PHE:O	6:C:3255:ALA:HB3	2.15	0.47
6:C:3256:MET:HB2	6:C:3282:ARG:NH2	2.29	0.47
6:C:3329:LEU:CD1	6:C:3388:ALA:HB3	2.45	0.47
6:C:4065:LEU:HD12	6:C:4066:LEU:N	2.29	0.47
1:A:276:LEU:O	2:B:431:ARG:N	2.48	0.46
1:A:487:PHE:HD1	1:A:488:ARG:HH12	1.63	0.46
2:B:221:LEU:HA	2:B:224:ILE:HG13	1.96	0.46
2:B:253:ILE:O	2:B:257:LEU:HB3	2.15	0.46
2:B:399:LYS:CE	4:D:10:DG:H21	2.28	0.46
2:B:476:LEU:O	2:B:477:PHE:HB2	2.15	0.46
4:D:3:DT:C3'	4:D:4:DA:H8	2.22	0.46
5:E:26:DC:H2''	5:E:27:DC:C6	2.49	0.46
5:E:30:DA:C6	5:E:31:DA:C6	3.03	0.46
6:C:432:THR:HB	6:C:433:PRO:HD3	1.96	0.46
6:C:778:ILE:O	6:C:781:ASP:HB3	2.15	0.46
6:C:869:ASN:O	6:C:873:VAL:HB	2.14	0.46
6:C:952:GLY:O	6:C:955:ALA:N	2.47	0.46
6:C:959:TYR:HA	6:C:962:TYR:CB	2.44	0.46
6:C:1283:GLY:HA3	6:C:1286:ALA:HB3	1.97	0.46
6:C:1288:SER:HB3	6:C:1292:LYS:HB2	1.97	0.46
6:C:1296:PHE:HE2	6:C:1361:LYS:HZ2	1.58	0.46
6:C:1400:VAL:HG13	6:C:1404:LYS:HE2	1.97	0.46
6:C:1456:LYS:C	6:C:1460:ARG:HH21	2.18	0.46
6:C:2235:LEU:HD12	6:C:2238:ILE:HB	1.97	0.46
6:C:2255:LEU:O	6:C:2258:GLU:HB2	2.14	0.46
6:C:2319:ALA:O	6:C:2323:LEU:HG	2.15	0.46
6:C:2463:SER:C	6:C:2470:ARG:HH21	2.14	0.46
6:C:2505:VAL:HA	6:C:2508:GLN:OE1	2.15	0.46
6:C:2531:LEU:HD13	6:C:2538:ARG:HD3	1.96	0.46
6:C:2792:THR:HA	6:C:2795:GLN:OE1	2.15	0.46
6:C:3118:ASP:O	6:C:3119:VAL:C	2.53	0.46
6:C:3166:ASN:C	6:C:3169:PRO:HD2	2.35	0.46
6:C:3257:LYS:HG2	6:C:3258:LEU:HD12	1.97	0.46
6:C:3440:GLN:HB3	6:C:3474:ARG:HD3	1.97	0.46
6:C:3447:VAL:HG12	6:C:3465:PHE:CD1	2.50	0.46
6:C:3621:LYS:NZ	6:C:3638:LYS:HB3	2.29	0.46
6:C:3635:THR:OG1	6:C:3636:PHE:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3704:GLN:NE2	6:C:3794:VAL:HG21	2.30	0.46
6:C:3784:ARG:HB2	6:C:3786:LEU:HD11	1.97	0.46
6:C:3913:ILE:HG21	6:C:3991:PHE:HZ	1.80	0.46
6:C:3947:GLY:HA3	6:C:4064:LEU:HD13	1.96	0.46
6:C:4013:TRP:HH2	6:C:4041:ARG:HB2	1.79	0.46
1:A:133:ASP:O	1:A:136:GLY:N	2.49	0.46
1:A:145:GLU:H	1:A:145:GLU:CD	2.15	0.46
1:A:301:ARG:CD	6:C:164:LYS:H	2.29	0.46
1:A:353:LEU:CD2	1:A:395:ALA:HB2	2.45	0.46
1:A:530:TYR:CD1	1:A:532:PRO:HB3	2.50	0.46
2:B:134:ILE:O	2:B:163:PHE:HA	2.15	0.46
2:B:203:GLU:O	2:B:207:ILE:HG12	2.15	0.46
2:B:526:SER:C	2:B:530:LEU:HG	2.35	0.46
4:D:-1:DA:C2	5:E:38:DA:C2	3.04	0.46
4:D:3:DT:N3	4:D:4:DA:C5	2.83	0.46
6:C:90:CYS:HA	6:C:93:LEU:HG	1.98	0.46
6:C:142:ARG:NH2	6:C:183:GLU:OE1	2.44	0.46
6:C:738:HIS:CD2	6:C:741:ILE:HD11	2.50	0.46
6:C:956:PRO:HD2	6:C:957:PRO:HD2	1.97	0.46
6:C:1417:THR:O	6:C:1421:GLU:HG3	2.13	0.46
6:C:1730:PRO:HG3	6:C:1873:TYR:CD1	2.51	0.46
6:C:2207:LYS:N	6:C:2207:LYS:HD2	2.31	0.46
6:C:2555:LEU:O	6:C:2559:THR:HG23	2.15	0.46
6:C:2952:ILE:HG22	6:C:2968:ALA:HB1	1.96	0.46
6:C:3297:VAL:HG13	6:C:3298:LEU:N	2.30	0.46
6:C:3410:ILE:HG13	6:C:3414:MET:SD	2.55	0.46
6:C:3505:LEU:O	6:C:3510:GLN:HG3	2.15	0.46
1:A:70:VAL:O	1:A:74:LYS:HG2	2.16	0.46
1:A:92:LYS:HE2	1:A:103:TYR:HE1	1.79	0.46
1:A:115:ARG:O	1:A:119:LEU:HG	2.15	0.46
1:A:166:ILE:N	1:A:199:PHE:O	2.38	0.46
1:A:358:LYS:HA	1:A:360:HIS:CE1	2.51	0.46
1:A:390:LEU:HD21	1:A:415:PRO:O	2.15	0.46
1:A:406:ILE:HA	1:A:406:ILE:HD12	1.77	0.46
2:B:390:VAL:HG12	2:B:409:PHE:CD1	2.50	0.46
4:D:-1:DA:C5	4:D:0:DT:C4	3.03	0.46
5:E:36:DA:C4	5:E:37:DT:O4	2.68	0.46
5:E:44:DA:C6	5:E:45:DG:C6	3.04	0.46
6:C:437:HIS:HB3	6:C:1812:LEU:HD22	1.97	0.46
6:C:547:ASP:O	6:C:550:PHE:HB3	2.15	0.46
6:C:550:PHE:HD2	6:C:551:PHE:CD2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:620:PHE:C	6:C:623:PHE:H	2.11	0.46
6:C:775:GLU:HA	6:C:778:ILE:HD12	1.97	0.46
6:C:1123:THR:O	6:C:1126:GLN:HB3	2.15	0.46
6:C:1522:GLY:HA2	6:C:1525:CYS:SG	2.56	0.46
6:C:1598:ASN:OD1	6:C:1686:LEU:HD13	2.15	0.46
6:C:1867:ILE:O	6:C:1870:LYS:HB3	2.16	0.46
6:C:1879:VAL:O	6:C:1883:ARG:HB2	2.15	0.46
6:C:2346:ALA:HB1	6:C:2350:LYS:NZ	2.31	0.46
6:C:2516:GLY:O	6:C:2519:LEU:N	2.49	0.46
6:C:2809:PHE:N	6:C:2809:PHE:HD1	2.12	0.46
6:C:2901:LEU:HD21	6:C:2910:VAL:HG11	1.98	0.46
6:C:2944:THR:OG1	6:C:2986:PRO:HB2	2.14	0.46
6:C:3122:HIS:CG	6:C:3123:GLN:H	2.32	0.46
6:C:3124:SER:HB3	6:C:3125:ARG:CZ	2.45	0.46
6:C:3256:MET:HB2	6:C:3282:ARG:CZ	2.44	0.46
6:C:3462:ARG:HD2	6:C:3498:TRP:CE3	2.50	0.46
6:C:3763:ARG:HD3	6:C:4005:PHE:CD1	2.50	0.46
6:C:4085:LYS:HA	6:C:4088:ASN:HB2	1.97	0.46
1:A:184:SER:O	1:A:188:THR:CB	2.64	0.46
1:A:465:ILE:HG21	1:A:525:PHE:HE2	1.80	0.46
2:B:65:ASP:HB3	2:B:79:VAL:H	1.79	0.46
2:B:209:LYS:HG2	2:B:221:LEU:HD22	1.97	0.46
2:B:252:THR:HA	2:B:258:SER:HA	1.97	0.46
2:B:269:GLN:HG3	2:B:270:GLU:O	2.15	0.46
4:D:1:DG:H2'	4:D:2:DG:C1'	2.46	0.46
4:D:2:DG:H3'	4:D:3:DT:H71	1.97	0.46
4:D:7:DA:C2	5:E:30:DA:C2	3.03	0.46
6:C:16:GLN:HE22	6:C:62:ASP:HB2	1.80	0.46
6:C:157:TYR:HA	6:C:160:LEU:HG	1.96	0.46
6:C:415:GLN:O	6:C:418:ALA:HB3	2.16	0.46
6:C:492:SER:HA	6:C:493:LYS:HA	1.69	0.46
6:C:1027:ASP:O	6:C:1031:ARG:HG2	2.15	0.46
6:C:1335:CYS:SG	6:C:1383:GLY:N	2.89	0.46
6:C:1548:GLY:O	6:C:1552:HIS:N	2.33	0.46
6:C:1643:MET:O	6:C:1646:LEU:N	2.44	0.46
6:C:1643:MET:C	6:C:1646:LEU:H	2.17	0.46
6:C:1900:PHE:HA	6:C:1903:SER:HB2	1.98	0.46
6:C:2129:LEU:HD23	6:C:2140:LEU:HD22	1.97	0.46
6:C:2417:SER:C	6:C:2418:LYS:HD2	2.36	0.46
6:C:2482:ASP:OD2	6:C:2525:TRP:HH2	1.97	0.46
6:C:2832:ILE:O	6:C:2836:LEU:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2871:LEU:O	6:C:2873:PRO:HD3	2.15	0.46
6:C:3039:THR:O	6:C:3042:PRO:HD2	2.15	0.46
6:C:3767:LEU:HD12	6:C:3770:VAL:HB	1.97	0.46
1:A:239:LEU:O	1:A:243:LEU:HG	2.15	0.46
1:A:276:LEU:HG	2:B:429:ASP:O	2.15	0.46
2:B:162:GLN:HE22	2:B:236:VAL:HA	1.81	0.46
6:C:66:LEU:HD11	6:C:70:ARG:HB2	1.97	0.46
6:C:321:LYS:HE3	6:C:325:ASN:HD21	1.80	0.46
6:C:420:VAL:O	6:C:423:TYR:HB3	2.16	0.46
6:C:465:PHE:HA	6:C:468:LEU:HD12	1.97	0.46
6:C:755:ALA:O	6:C:758:LEU:HB3	2.16	0.46
6:C:766:ALA:O	6:C:770:LEU:HD13	2.15	0.46
6:C:938:VAL:N	6:C:962:TYR:OH	2.49	0.46
6:C:1032:CYS:C	6:C:1035:GLU:HB3	2.30	0.46
6:C:1053:PRO:O	6:C:1058:SER:HB2	2.15	0.46
6:C:1325:GLN:O	6:C:1328:GLU:HB3	2.16	0.46
6:C:1420:ARG:HD2	6:C:1420:ARG:HA	1.47	0.46
6:C:1556:GLY:O	6:C:1559:PHE:N	2.48	0.46
6:C:1750:LEU:HA	6:C:1753:SER:OG	2.15	0.46
6:C:1758:LEU:CD1	6:C:1761:LEU:HD23	2.42	0.46
6:C:1975:LEU:HB3	6:C:1976:LEU:HD12	1.97	0.46
6:C:2129:LEU:HD13	6:C:2144:LEU:HD21	1.96	0.46
6:C:2132:LYS:O	6:C:2136:PRO:HB2	2.15	0.46
6:C:2142:ILE:HG23	6:C:2145:PHE:CE2	2.50	0.46
6:C:2164:TRP:CZ2	6:C:2245:TRP:HZ3	2.33	0.46
6:C:2221:LYS:HA	6:C:2224:PHE:CE2	2.50	0.46
6:C:2225:HIS:O	6:C:2227:LYS:N	2.48	0.46
6:C:2253:TYR:O	6:C:2256:ILE:N	2.49	0.46
6:C:2324:GLY:HA3	6:C:2370:SER:CB	2.45	0.46
6:C:2351:GLN:O	6:C:2352:HIS:C	2.54	0.46
6:C:2413:PHE:CE1	6:C:2442:MET:HG2	2.51	0.46
6:C:2439:ILE:HG23	6:C:2440:TYR:CE2	2.50	0.46
6:C:2517:LEU:HD12	6:C:2518:GLN:N	2.30	0.46
6:C:2526:SER:OG	6:C:2530:ARG:HD3	2.16	0.46
6:C:2526:SER:CA	6:C:2530:ARG:HB2	2.44	0.46
6:C:2835:LYS:O	6:C:2836:LEU:C	2.52	0.46
6:C:2928:LYS:HA	6:C:2931:ARG:NH2	2.30	0.46
6:C:3083:SER:HB3	6:C:3085:GLU:HB2	1.96	0.46
6:C:3176:MET:CA	6:C:3179:TRP:HB3	2.42	0.46
6:C:3298:LEU:CD2	6:C:3348:LEU:HB3	2.45	0.46
6:C:3440:GLN:HB3	6:C:3474:ARG:CD	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3629:ARG:NH2	6:C:3634:GLN:OE1	2.49	0.46
6:C:3754:GLY:HA2	6:C:3800:LEU:HB2	1.97	0.46
6:C:3773:GLY:O	6:C:3777:GLN:HG3	2.15	0.46
1:A:39:ILE:HB	1:A:166:ILE:HA	1.97	0.46
1:A:141:TYR:OH	1:A:172:GLU:OE2	2.27	0.46
1:A:289:TYR:HE1	1:A:290:ARG:HH21	1.63	0.46
2:B:16:VAL:HG13	2:B:101:GLY:O	2.14	0.46
2:B:65:ASP:N	2:B:78:THR:HA	2.30	0.46
2:B:390:VAL:HA	2:B:409:PHE:HD1	1.81	0.46
2:B:400:ARG:HA	4:D:10:DG:H4'	1.96	0.46
2:B:479:THR:OG1	2:B:480:THR:HG23	2.16	0.46
5:E:47:DT:N3	5:E:48:DT:C4	2.84	0.46
6:C:93:LEU:HD11	6:C:137:THR:CA	2.42	0.46
6:C:1234:GLY:HA2	6:C:1237:ALA:HB2	1.97	0.46
6:C:1441:ALA:O	6:C:1445:ARG:HB2	2.14	0.46
6:C:1555:HIS:O	6:C:1558:TYR:HB2	2.15	0.46
6:C:1658:SER:HB3	6:C:1674:THR:HA	1.97	0.46
6:C:1877:LEU:O	6:C:1916:ILE:HG21	2.14	0.46
6:C:2381:ALA:O	6:C:2384:PHE:N	2.49	0.46
6:C:2395:THR:HG22	6:C:2399:GLU:CD	2.36	0.46
6:C:2398:LEU:HD23	6:C:2399:GLU:HG3	1.97	0.46
6:C:2820:MET:SD	6:C:2829:LYS:HD2	2.56	0.46
6:C:2893:LEU:HD11	6:C:2914:ALA:O	2.15	0.46
6:C:2923:TRP:O	6:C:2926:LEU:HB2	2.16	0.46
6:C:3151:LEU:HA	6:C:3152:SER:HA	1.71	0.46
6:C:3378:TYR:HD2	6:C:3379:GLN:HG3	1.78	0.46
6:C:3501:HIS:HE1	6:C:4004:VAL:HG13	1.81	0.46
6:C:3550:LYS:NZ	6:C:3554:PHE:HE2	2.13	0.46
6:C:3596:LEU:HB2	6:C:3660:ASN:HD21	1.80	0.46
6:C:3643:HIS:HB3	6:C:3669:LYS:NZ	2.30	0.46
6:C:3756:GLU:N	6:C:3799:ARG:O	2.48	0.46
6:C:4018:GLN:HG2	6:C:4022:LYS:HE3	1.98	0.46
1:A:106:GLN:HG3	1:A:115:ARG:HH21	1.81	0.46
1:A:420:LEU:HA	1:A:425:ILE:O	2.16	0.46
2:B:65:ASP:O	2:B:79:VAL:N	2.49	0.46
2:B:460:SER:HB2	2:B:525:LYS:CB	2.42	0.46
6:C:115:TYR:HA	6:C:131:LEU:CD2	2.46	0.46
6:C:632:GLU:HG3	6:C:633:ILE:N	2.31	0.46
6:C:741:ILE:HD12	6:C:745:VAL:HA	1.97	0.46
6:C:989:MET:SD	6:C:1034:ARG:HG2	2.56	0.46
6:C:990:GLN:HB3	6:C:2776:ARG:HH11	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1141:LYS:HE2	6:C:1178:ARG:CZ	2.46	0.46
6:C:1232:PRO:CB	6:C:1291:LEU:HB3	2.40	0.46
6:C:1644:ALA:O	6:C:1648:LEU:HB3	2.15	0.46
6:C:1689:LYS:O	6:C:1693:VAL:HG23	2.15	0.46
6:C:2072:ARG:O	6:C:2076:VAL:N	2.49	0.46
6:C:2077:HIS:HE2	6:C:2087:GLU:CD	2.17	0.46
6:C:2242:VAL:CA	6:C:2245:TRP:CD1	2.95	0.46
6:C:2254:ARG:HH21	6:C:2255:LEU:HD11	1.80	0.46
6:C:2378:PHE:O	6:C:2381:ALA:HB3	2.15	0.46
6:C:2439:ILE:HG22	6:C:2439:ILE:H	1.51	0.46
6:C:3099:ALA:O	6:C:3103:ILE:HG22	2.16	0.46
6:C:3126:LEU:HA	6:C:3129:LEU:HD12	1.98	0.46
6:C:3176:MET:HA	6:C:3179:TRP:CB	2.44	0.46
6:C:3381:ALA:O	6:C:3384:HIS:N	2.49	0.46
6:C:3780:ALA:HB1	6:C:3784:ARG:NH1	2.27	0.46
1:A:125:GLN:OE1	1:A:125:GLN:N	2.34	0.46
1:A:278:GLN:NE2	4:D:1:DG:H3'	2.31	0.46
1:A:284:PRO:HB2	5:E:32:DT:OP2	2.16	0.46
1:A:362:LEU:HD11	2:B:269:GLN:HB2	1.97	0.46
2:B:53:GLU:HG2	2:B:84:MET:O	2.16	0.46
2:B:87:ASP:O	2:B:90:LEU:HB3	2.16	0.46
2:B:297:LEU:HG	2:B:303:THR:O	2.16	0.46
4:D:6:DT:N3	5:E:31:DA:C2	2.84	0.46
4:D:7:DA:H2'	4:D:8:DT:C6	2.51	0.46
5:E:36:DA:C5	5:E:37:DT:O4	2.69	0.46
6:C:87:LYS:HE2	6:C:133:LYS:HE3	1.98	0.46
6:C:129:ASP:O	6:C:133:LYS:HG2	2.15	0.46
6:C:142:ARG:NH1	6:C:183:GLU:OE1	2.48	0.46
6:C:449:TYR:HD2	6:C:454:GLN:HG2	1.80	0.46
6:C:487:LEU:O	6:C:490:ILE:HB	2.15	0.46
6:C:574:LYS:O	6:C:577:GLU:HG2	2.16	0.46
6:C:644:PRO:HD2	6:C:645:TRP:CD1	2.50	0.46
6:C:923:ASP:HA	6:C:926:THR:OG1	2.16	0.46
6:C:1402:LEU:O	6:C:1406:LEU:HG	2.16	0.46
6:C:1465:HIS:O	6:C:1468:LEU:N	2.49	0.46
6:C:1762:MET:HG3	6:C:1864:ASP:HB2	1.98	0.46
6:C:1879:VAL:HA	6:C:1920:TYR:CE1	2.50	0.46
6:C:2070:GLU:CD	6:C:2075:THR:HG21	2.36	0.46
6:C:2152:ASN:CB	6:C:2153:THR:HA	2.40	0.46
6:C:2245:TRP:HB3	6:C:2249:LEU:CD1	2.46	0.46
6:C:2382:VAL:HA	6:C:2385:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2444:PRO:HG2	6:C:2445:LYS:HE3	1.97	0.46
6:C:2873:PRO:HD2	6:C:2876:VAL:HG11	1.97	0.46
6:C:2911:ARG:HB2	6:C:2914:ALA:CB	2.46	0.46
6:C:3067:LYS:HA	6:C:3070:HIS:HD2	1.81	0.46
6:C:3326:GLN:HG2	6:C:3389:VAL:HG13	1.97	0.46
6:C:3400:SER:HB3	6:C:3409:VAL:HA	1.98	0.46
6:C:3505:LEU:HG	6:C:3510:GLN:NE2	2.30	0.46
6:C:3554:PHE:HB3	6:C:3557:ARG:HH21	1.80	0.46
6:C:3703:GLY:O	6:C:3704:GLN:HB2	2.16	0.46
6:C:3930:VAL:HA	6:C:3936:GLY:C	2.36	0.46
6:C:4068:HIS:HD2	6:C:4074:PHE:CZ	2.33	0.46
6:C:4073:ALA:CA	6:C:4119:ARG:HH22	2.29	0.46
6:C:4127:TRP:CH2	6:C:4128:MET:HB2	2.51	0.46
1:A:80:ARG:C	1:A:110:ASN:HD21	2.19	0.46
1:A:88:TYR:CD1	1:A:89:GLY:N	2.84	0.46
1:A:142:SER:OG	1:A:182:LYS:NZ	2.44	0.46
1:A:369:TYR:OH	1:A:372:GLU:OE1	2.31	0.46
1:A:386:LEU:HD21	1:A:431:GLY:O	2.15	0.46
2:B:40:MET:O	2:B:43:GLN:HB2	2.16	0.46
2:B:111:LEU:HB3	2:B:150:ILE:HG21	1.98	0.46
2:B:213:ILE:HG13	2:B:218:GLU:HB2	1.98	0.46
2:B:353:ARG:HA	2:B:356:PHE:CD2	2.50	0.46
2:B:464:ALA:HB1	2:B:473:LEU:HB3	1.98	0.46
4:D:7:DA:C6	5:E:28:DA:N6	2.83	0.46
6:C:202:GLY:O	6:C:205:LYS:HB3	2.16	0.46
6:C:353:ASP:CA	6:C:1858:LEU:HD12	2.39	0.46
6:C:548:GLU:O	6:C:552:SER:OG	2.27	0.46
6:C:734:LEU:HA	6:C:734:LEU:HD23	1.53	0.46
6:C:1884:LEU:HD23	6:C:1887:ASP:OD2	2.15	0.46
6:C:2043:PHE:N	6:C:2043:PHE:CD1	2.82	0.46
6:C:2210:VAL:HG13	6:C:2214:ARG:NH2	2.31	0.46
6:C:2224:PHE:HA	6:C:2272:VAL:HG11	1.98	0.46
6:C:2260:PHE:CE1	6:C:2270:ASN:HA	2.51	0.46
6:C:2285:LEU:HD21	6:C:2332:GLU:HB2	1.97	0.46
6:C:2324:GLY:HA2	6:C:2371:PHE:HA	1.98	0.46
6:C:2348:GLN:O	6:C:2352:HIS:CD2	2.69	0.46
6:C:2457:PRO:HA	6:C:2460:GLU:CD	2.36	0.46
6:C:2457:PRO:O	6:C:2460:GLU:N	2.49	0.46
6:C:2562:LEU:HD23	6:C:2562:LEU:HA	1.69	0.46
6:C:2575:PRO:CA	6:C:2789:SER:HB3	2.43	0.46
6:C:2844:LEU:C	6:C:2846:THR:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2954:GLN:O	6:C:2958:LEU:HG	2.16	0.46
6:C:3432:SER:HB2	6:C:3435:ASP:HB2	1.98	0.46
6:C:3907:SER:O	6:C:3908:HIS:C	2.54	0.46
6:C:3932:MET:HA	6:C:3935:GLY:HA2	1.98	0.46
1:A:93:ASP:OD1	1:A:102:ILE:HB	2.15	0.46
1:A:130:ARG:HG3	1:A:134:MET:HE1	1.98	0.46
1:A:264:ASN:CG	1:A:266:ASP:H	2.18	0.46
1:A:285:PRO:HA	2:B:314:PHE:CE1	2.50	0.46
1:A:340:PHE:CD2	1:A:408:PRO:HD2	2.51	0.46
1:A:363:ARG:HD2	2:B:269:GLN:HE21	1.81	0.46
4:D:4:DA:N3	4:D:5:DT:C6	2.84	0.46
4:D:10:DG:C6	5:E:26:DC:N3	2.83	0.46
6:C:224:LEU:O	6:C:227:LEU:HB3	2.16	0.46
6:C:313:LEU:H	6:C:313:LEU:HG	1.27	0.46
6:C:359:LEU:HD12	6:C:408:TYR:CE1	2.51	0.46
6:C:486:GLY:O	6:C:490:ILE:HG13	2.16	0.46
6:C:567:GLU:HG3	6:C:570:LYS:HE3	1.98	0.46
6:C:657:SER:HB2	6:C:734:LEU:HD21	1.97	0.46
6:C:772:ALA:O	6:C:773:LEU:C	2.54	0.46
6:C:916:GLU:CB	6:C:930:ALA:HB2	2.46	0.46
6:C:1141:LYS:HE3	6:C:1179:PRO:CB	2.46	0.46
6:C:1248:PHE:HA	6:C:1251:GLN:CD	2.37	0.46
6:C:1890:HIS:CD2	6:C:1937:ARG:HA	2.51	0.46
6:C:2164:TRP:CZ3	6:C:2212:ALA:HB2	2.52	0.46
6:C:2452:ARG:HG3	6:C:2453:GLU:N	2.30	0.46
6:C:2469:CYS:SG	6:C:2470:ARG:N	2.88	0.46
6:C:3502:MET:SD	6:C:3506:LEU:HB2	2.56	0.46
6:C:3595:GLU:HA	6:C:3598:LYS:NZ	2.31	0.46
6:C:3877:LYS:HZ2	6:C:3965:ARG:HG2	1.81	0.46
6:C:4002:MET:HA	6:C:4005:PHE:CB	2.44	0.46
6:C:4005:PHE:CD2	6:C:4006:VAL:N	2.85	0.46
1:A:74:LYS:HD3	1:A:77:SER:HG	1.81	0.45
1:A:204:HIS:HA	1:A:211:PHE:CE2	2.51	0.45
1:A:340:PHE:CE2	2:B:485:PRO:HB3	2.48	0.45
1:A:353:LEU:HD21	1:A:415:PRO:HD2	1.98	0.45
2:B:213:ILE:HA	2:B:217:GLY:C	2.37	0.45
2:B:521:GLU:OE1	2:B:521:GLU:N	2.37	0.45
4:D:1:DG:C2	5:E:36:DA:N1	2.84	0.45
6:C:17:GLU:HG2	6:C:65:LEU:CD1	2.26	0.45
6:C:138:PHE:HE2	6:C:180:LEU:HB3	1.81	0.45
6:C:300:TRP:CE3	6:C:301:CYS:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:487:LEU:HD21	6:C:620:PHE:HZ	1.80	0.45
6:C:714:VAL:O	6:C:717:LYS:HB3	2.16	0.45
6:C:885:ALA:O	6:C:888:ARG:N	2.48	0.45
6:C:990:GLN:HB3	6:C:2776:ARG:NH1	2.31	0.45
6:C:1029:CYS:HA	6:C:1032:CYS:CB	2.43	0.45
6:C:1072:ALA:HB1	6:C:1074:LYS:CG	2.43	0.45
6:C:1086:TYR:O	6:C:1088:GLU:N	2.49	0.45
6:C:1356:TRP:HA	6:C:1359:LEU:CB	2.43	0.45
6:C:1918:LEU:HD23	6:C:1921:ASP:OD2	2.16	0.45
6:C:2088:LEU:HD11	6:C:2145:PHE:CD2	2.51	0.45
6:C:2135:ASN:O	6:C:2139:PRO:HD2	2.16	0.45
6:C:2311:ARG:NH1	6:C:2312:TYR:OH	2.49	0.45
6:C:2330:VAL:HG22	6:C:2334:LYS:O	2.16	0.45
6:C:2550:ILE:HG23	6:C:2847:THR:HA	1.97	0.45
6:C:2839:ASP:OD1	6:C:2839:ASP:N	2.49	0.45
6:C:3096:VAL:HG23	6:C:3097:ASP:OD1	2.17	0.45
6:C:3677:PRO:HA	6:C:3679:ASN:ND2	2.31	0.45
6:C:3681:LYS:HA	6:C:3684:SER:CB	2.43	0.45
6:C:3717:VAL:HB	6:C:3746:ARG:CZ	2.46	0.45
6:C:3982:SER:HA	6:C:3985:VAL:HG23	1.98	0.45
6:C:4000:ASN:O	6:C:4003:ASP:HB3	2.15	0.45
6:C:4004:VAL:HA	6:C:4007:LYS:HB3	1.98	0.45
6:C:4005:PHE:O	6:C:4009:PRO:HD3	2.16	0.45
6:C:4013:TRP:CD2	6:C:4040:PRO:HG2	2.51	0.45
1:A:71:TYR:OH	1:A:111:PRO:HA	2.17	0.45
1:A:107:GLU:OE2	1:A:156:ASP:HB3	2.16	0.45
1:A:340:PHE:HE2	2:B:485:PRO:CB	2.27	0.45
1:A:383:SER:HG	1:A:384:ALA:H	1.63	0.45
1:A:397:LEU:HD12	1:A:411:VAL:O	2.16	0.45
2:B:215:LEU:HD22	2:B:216:GLU:CD	2.36	0.45
6:C:634:LEU:HD21	6:C:667:TYR:CZ	2.52	0.45
6:C:792:ILE:O	6:C:796:LEU:HG	2.16	0.45
6:C:1011:GLU:O	6:C:1014:LEU:N	2.28	0.45
6:C:1213:LYS:HB3	6:C:1214:GLU:OE1	2.17	0.45
6:C:2207:LYS:C	6:C:2209:GLU:N	2.68	0.45
6:C:2786:LYS:HG2	6:C:2787:HIS:ND1	2.30	0.45
6:C:2816:ILE:HG23	6:C:2817:LEU:N	2.31	0.45
6:C:2948:GLY:HA2	6:C:2951:GLN:OE1	2.15	0.45
6:C:3028:ASN:C	6:C:3030:ILE:N	2.69	0.45
6:C:3467:ARG:HA	6:C:3470:GLN:HB2	1.98	0.45
6:C:3614:TYR:O	6:C:3625:LEU:HD21	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3681:LYS:NZ	6:C:3725:ARG:HA	2.29	0.45
6:C:3868:VAL:HG11	6:C:4117:LEU:HB2	1.98	0.45
1:A:99:PHE:O	1:A:102:ILE:HD12	2.16	0.45
1:A:106:GLN:HE21	1:A:115:ARG:CZ	2.28	0.45
1:A:329:LEU:HD11	2:B:497:ARG:HG3	1.98	0.45
1:A:336:GLU:HA	1:A:339:ARG:NH1	2.32	0.45
6:C:242:PRO:O	6:C:246:ARG:CB	2.64	0.45
6:C:282:PHE:HE2	6:C:319:PHE:CE1	2.34	0.45
6:C:461:ILE:HG22	6:C:465:PHE:CE2	2.50	0.45
6:C:916:GLU:HB3	6:C:930:ALA:HB2	1.96	0.45
6:C:1762:MET:CG	6:C:1864:ASP:HB2	2.46	0.45
6:C:2159:PRO:HA	6:C:2162:LYS:HD3	1.99	0.45
6:C:2361:ILE:HG23	6:C:2362:VAL:N	2.31	0.45
6:C:2493:ASN:O	6:C:2497:GLU:HG3	2.16	0.45
6:C:2827:SER:O	6:C:2830:ASN:HB2	2.17	0.45
6:C:3098:ARG:O	6:C:3102:TYR:HD2	1.99	0.45
6:C:3109:SER:O	6:C:3112:GLN:HB3	2.16	0.45
6:C:3234:CYS:O	6:C:3237:SER:HB3	2.16	0.45
6:C:3722:PHE:HE1	6:C:3740:ILE:HD13	1.81	0.45
1:A:117:LEU:HA	1:A:120:ASP:OD2	2.16	0.45
1:A:276:LEU:HD11	2:B:430:LEU:HG	1.97	0.45
1:A:351:LYS:HZ1	1:A:355:LEU:HD22	1.82	0.45
2:B:9:ALA:HB2	2:B:127:PHE:CD2	2.52	0.45
2:B:242:ARG:NH1	2:B:243:HIS:HB2	2.31	0.45
2:B:485:PRO:O	2:B:486:ARG:C	2.55	0.45
2:B:490:LEU:O	2:B:494:LEU:HG	2.17	0.45
5:E:41:DA:H8	5:E:41:DA:O5'	1.99	0.45
5:E:44:DA:H2'	5:E:45:DG:O4'	2.16	0.45
6:C:33:GLN:HA	6:C:36:ARG:HB2	1.97	0.45
6:C:37:GLY:O	6:C:41:GLU:N	2.49	0.45
6:C:187:SER:OG	6:C:188:GLU:N	2.49	0.45
6:C:262:LEU:HD21	6:C:306:VAL:HB	1.98	0.45
6:C:414:LEU:HD21	6:C:461:ILE:HA	1.98	0.45
6:C:992:ILE:HA	6:C:995:PHE:CE2	2.51	0.45
6:C:997:ASN:HA	6:C:1042:LYS:CD	2.46	0.45
6:C:1057:LYS:HE3	6:C:1096:VAL:HG22	1.99	0.45
6:C:1656:ASP:OD1	6:C:1717:LEU:HA	2.17	0.45
6:C:1740:VAL:HG13	6:C:1883:ARG:NH2	2.31	0.45
6:C:1761:LEU:HG	6:C:1860:GLU:CD	2.36	0.45
6:C:1946:ASN:ND2	6:C:1994:VAL:HA	2.30	0.45
6:C:2291:GLN:CD	6:C:2294:ILE:HB	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2367:VAL:C	6:C:2369:LYS:H	2.18	0.45
6:C:2433:LYS:HD3	6:C:2461:PHE:CE1	2.52	0.45
6:C:2507:ILE:O	6:C:2510:LEU:N	2.49	0.45
6:C:3025:PRO:CA	6:C:3067:LYS:HD2	2.45	0.45
6:C:3117:ILE:HG13	6:C:3118:ASP:N	2.31	0.45
6:C:3120:LEU:HD13	6:C:3125:ARG:CZ	2.47	0.45
6:C:3159:ARG:HG2	6:C:3161:LEU:N	2.32	0.45
6:C:3172:LYS:HZ3	6:C:3172:LYS:HG3	1.34	0.45
6:C:3317:SER:HA	6:C:3319:ASN:HB3	1.98	0.45
6:C:3359:ILE:C	6:C:3388:ALA:HB2	2.37	0.45
6:C:3448:GLU:CD	6:C:3482:LEU:HD13	2.36	0.45
6:C:3691:LYS:HD2	6:C:3696:ARG:NH1	2.32	0.45
6:C:3975:LYS:C	6:C:3977:THR:N	2.68	0.45
1:A:36:ASP:OD2	1:A:162:SER:HB2	2.17	0.45
1:A:37:SER:OG	1:A:164:LYS:HA	2.17	0.45
1:A:70:VAL:HG13	1:A:74:LYS:NZ	2.31	0.45
1:A:86:VAL:O	1:A:87:PHE:HD1	1.99	0.45
1:A:145:GLU:HG3	1:A:148:TRP:CH2	2.52	0.45
1:A:301:ARG:HG3	6:C:163:LYS:HB3	1.98	0.45
1:A:418:GLU:OE1	2:B:438:LEU:HB2	2.17	0.45
2:B:154:LEU:HD22	2:B:159:ILE:HG13	1.99	0.45
2:B:252:THR:O	2:B:342:VAL:N	2.39	0.45
2:B:532:LYS:HA	2:B:535:THR:OG1	2.16	0.45
4:D:-7:DA:C2	4:D:-6:DT:C2	3.04	0.45
5:E:17:DA:H2'	5:E:18:DG:C8	2.50	0.45
6:C:16:GLN:O	6:C:20:SER:HB3	2.16	0.45
6:C:421:LEU:O	6:C:424:LEU:N	2.46	0.45
6:C:454:GLN:O	6:C:457:CYS:HB2	2.17	0.45
6:C:475:LEU:O	6:C:479:ILE:HG13	2.17	0.45
6:C:665:GLY:H	6:C:740:ILE:HD11	1.82	0.45
6:C:731:THR:C	6:C:734:LEU:H	2.16	0.45
6:C:995:PHE:HB3	6:C:1002:GLU:OE1	2.16	0.45
6:C:997:ASN:HB2	6:C:1038:LYS:CE	2.46	0.45
6:C:1013:ILE:HD13	6:C:1013:ILE:N	2.32	0.45
6:C:1328:GLU:O	6:C:1332:TYR:CB	2.62	0.45
6:C:1603:GLN:HA	6:C:1606:ARG:NH2	2.30	0.45
6:C:1652:ILE:HD13	6:C:1709:GLU:OE2	2.16	0.45
6:C:2236:GLU:HA	6:C:2239:LYS:HB3	1.99	0.45
6:C:2291:GLN:HB3	6:C:2295:GLN:H	1.82	0.45
6:C:2318:ALA:O	6:C:2322:VAL:HG23	2.15	0.45
6:C:2559:THR:O	6:C:2563:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2886:GLN:HE22	6:C:2925:GLU:HG2	1.81	0.45
6:C:2938:VAL:HA	6:C:3975:LYS:HZ2	1.81	0.45
6:C:3064:PHE:HD1	6:C:3067:LYS:HE3	1.81	0.45
6:C:3418:ASP:O	6:C:3422:GLN:HG2	2.17	0.45
6:C:3565:GLY:HA2	6:C:3699:LEU:HD13	1.99	0.45
6:C:3675:LYS:HB2	6:C:3676:PRO:HD3	1.98	0.45
6:C:3710:LYS:HB2	6:C:3714:GLU:OE2	2.17	0.45
6:C:3923:ARG:CZ	6:C:3941:ASP:H	2.28	0.45
1:A:60:PHE:O	1:A:63:SER:HB2	2.17	0.45
1:A:122:PHE:N	1:A:122:PHE:CD1	2.83	0.45
2:B:68:LEU:HB2	2:B:74:TYR:CE2	2.51	0.45
2:B:532:LYS:HE3	2:B:532:LYS:HB2	1.67	0.45
4:D:9:DG:N1	5:E:27:DC:N1	2.61	0.45
6:C:217:LEU:HD23	6:C:220:LEU:HD12	1.98	0.45
6:C:290:TYR:OH	6:C:294:PHE:HD1	1.97	0.45
6:C:353:ASP:HA	6:C:1858:LEU:CD1	2.38	0.45
6:C:549:ALA:O	6:C:552:SER:HB2	2.17	0.45
6:C:557:SER:HA	6:C:616:LYS:HZ2	1.81	0.45
6:C:610:ALA:O	6:C:614:PRO:HD2	2.16	0.45
6:C:726:LEU:O	6:C:730:LEU:HG	2.17	0.45
6:C:857:GLN:HA	6:C:3136:THR:HG21	1.98	0.45
6:C:1483:LEU:HG	6:C:1563:PHE:HE1	1.82	0.45
6:C:1642:LYS:HE2	6:C:1642:LYS:HB2	1.73	0.45
6:C:1648:LEU:O	6:C:1652:ILE:HG13	2.17	0.45
6:C:1747:LEU:HD23	6:C:1747:LEU:HA	1.70	0.45
6:C:2050:GLN:HG2	6:C:2051:SER:H	1.81	0.45
6:C:2316:TYR:CG	6:C:2317:ALA:N	2.81	0.45
6:C:2376:ASP:O	6:C:2379:MET:N	2.49	0.45
6:C:2388:LYS:O	6:C:2391:GLY:CA	2.65	0.45
6:C:2443:MET:HB2	6:C:2444:PRO:HD3	1.98	0.45
6:C:2451:LEU:O	6:C:2455:LEU:HG	2.16	0.45
6:C:2549:LYS:HB2	6:C:2549:LYS:HE3	1.35	0.45
6:C:2557:LEU:H	6:C:2557:LEU:HG	1.51	0.45
6:C:3004:HIS:CE1	6:C:3043:TYR:HA	2.51	0.45
6:C:3247:ARG:NH2	6:C:3277:VAL:HG23	2.31	0.45
6:C:3319:ASN:HA	6:C:3396:ALA:HB1	1.98	0.45
6:C:3464:LYS:NZ	6:C:3468:LEU:HD11	2.31	0.45
6:C:3477:GLU:O	6:C:3477:GLU:HG2	2.15	0.45
6:C:3678:GLY:O	6:C:3680:LEU:HG	2.15	0.45
6:C:3836:PRO:O	6:C:3840:LYS:HG3	2.17	0.45
6:C:3922:ASP:C	6:C:3927:ASN:HD22	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3923:ARG:HH22	6:C:3941:ASP:H	1.65	0.45
6:C:3962:ARG:CZ	6:C:4124:TRP:CD2	2.99	0.45
6:C:3983:ILE:N	6:C:3983:ILE:HD12	2.32	0.45
1:A:43:ASP:HB3	1:A:170:THR:HB	1.98	0.45
1:A:353:LEU:HG	1:A:393:GLU:O	2.17	0.45
1:A:534:TYR:OH	2:B:260:ARG:HG3	2.16	0.45
2:B:7:LYS:HE2	2:B:126:LYS:O	2.15	0.45
2:B:481:LYS:O	2:B:483:PRO:HD3	2.16	0.45
6:C:138:PHE:CD2	6:C:180:LEU:HD13	2.51	0.45
6:C:700:LYS:HZ2	6:C:701:TYR:HE1	1.62	0.45
6:C:856:VAL:HG21	6:C:3110:PHE:CE1	2.51	0.45
6:C:913:ARG:CZ	6:C:930:ALA:HA	2.47	0.45
6:C:985:GLU:HG2	6:C:1031:ARG:NH2	2.31	0.45
6:C:1017:ILE:HA	6:C:1022:ASP:OD1	2.16	0.45
6:C:1108:MET:HA	6:C:1111:LEU:CD2	2.46	0.45
6:C:1262:ALA:O	6:C:1344:PHE:HB2	2.16	0.45
6:C:1280:GLN:HE21	6:C:1284:THR:HG23	1.81	0.45
6:C:1472:SER:O	6:C:1476:HIS:HD2	1.99	0.45
6:C:1730:PRO:N	6:C:1731:PRO:HD2	2.31	0.45
6:C:1944:ALA:HA	6:C:1947:CYS:SG	2.57	0.45
6:C:1946:ASN:HA	6:C:1949:ILE:CG2	2.38	0.45
6:C:2263:LYS:HG3	6:C:2270:ASN:HA	1.99	0.45
6:C:2313:LYS:C	6:C:2316:TYR:HD2	2.19	0.45
6:C:2484:TYR:HB2	6:C:2499:PHE:HD1	1.82	0.45
6:C:2867:ALA:C	6:C:2869:LEU:N	2.69	0.45
6:C:3117:ILE:HG13	6:C:3118:ASP:H	1.81	0.45
6:C:3461:ALA:HB1	6:C:3465:PHE:CZ	2.52	0.45
6:C:3612:ARG:O	6:C:3616:ALA:HB3	2.15	0.45
6:C:4056:PRO:O	6:C:4059:ILE:HB	2.17	0.45
1:A:140:ASP:OD1	1:A:141:TYR:N	2.43	0.45
1:A:512:GLU:O	1:A:516:LYS:HB3	2.16	0.45
2:B:270:GLU:OE2	2:B:273:LYS:NZ	2.33	0.45
2:B:399:LYS:HD2	4:D:10:DG:H21	1.82	0.45
4:D:4:DA:C8	4:D:4:DA:OP2	2.70	0.45
6:C:104:SER:HG	6:C:105:VAL:H	1.63	0.45
6:C:201:LEU:H	6:C:201:LEU:HG	1.59	0.45
6:C:718:MET:HE3	6:C:718:MET:HB2	1.93	0.45
6:C:1066:LEU:O	6:C:1070:PRO:HD3	2.17	0.45
6:C:1113:LEU:HB3	6:C:1163:LEU:HD12	1.99	0.45
6:C:1636:ASP:OD1	6:C:1636:ASP:N	2.49	0.45
6:C:1808:ASP:HA	6:C:1811:ARG:NE	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2114:GLU:HG3	6:C:2116:ASP:N	2.18	0.45
6:C:2361:ILE:O	6:C:2364:LEU:HB2	2.16	0.45
6:C:2571:ASP:H	6:C:2573:PRO:HD2	1.82	0.45
6:C:2801:ASP:N	6:C:2801:ASP:OD1	2.45	0.45
6:C:2836:LEU:HB3	6:C:2840:PHE:CE2	2.52	0.45
6:C:2956:ALA:C	6:C:2959:ALA:H	2.20	0.45
6:C:2965:TYR:CD2	6:C:3002:TYR:CE2	3.05	0.45
6:C:3464:LYS:HZ3	6:C:3468:LEU:HD11	1.82	0.45
6:C:3633:ILE:HA	6:C:3637:GLY:HA3	1.99	0.45
6:C:3789:ARG:CG	6:C:3938:ILE:HB	2.47	0.45
6:C:3883:LEU:HD12	6:C:3966:GLN:O	2.17	0.45
6:C:4121:TRP:CD2	6:C:4122:GLU:N	2.84	0.45
1:A:133:ASP:C	1:A:136:GLY:H	2.20	0.45
1:A:193:LEU:HA	1:A:196:THR:OG1	2.16	0.45
2:B:251:LEU:HD13	2:B:340:PHE:CE2	2.52	0.45
2:B:373:ALA:O	2:B:377:LEU:HB2	2.17	0.45
2:B:409:PHE:O	2:B:420:VAL:HG22	2.17	0.45
2:B:463:LEU:HB3	2:B:476:LEU:O	2.17	0.45
6:C:88:PHE:HA	6:C:91:ILE:HG12	1.99	0.45
6:C:290:TYR:CZ	6:C:294:PHE:HB2	2.52	0.45
6:C:674:VAL:HG12	6:C:743:LEU:HB2	1.99	0.45
6:C:756:PHE:CD1	6:C:773:LEU:HD22	2.52	0.45
6:C:1024:THR:HA	6:C:1027:ASP:OD2	2.17	0.45
6:C:1152:ARG:HA	6:C:1155:ARG:HG3	1.98	0.45
6:C:1238:GLN:OE1	6:C:1297:PHE:HB2	2.16	0.45
6:C:1269:THR:HG23	6:C:1275:THR:HG21	1.99	0.45
6:C:1699:PHE:HB2	6:C:1703:THR:HG23	1.99	0.45
6:C:1863:PHE:CE2	6:C:1867:ILE:HG13	2.52	0.45
6:C:1878:ASP:O	6:C:1881:TYR:HB2	2.16	0.45
6:C:1933:LEU:HD23	6:C:1937:ARG:HE	1.82	0.45
6:C:1952:ILE:CG1	6:C:1953:CYS:H	2.27	0.45
6:C:2093:CYS:O	6:C:2097:LEU:HG	2.16	0.45
6:C:2127:LYS:O	6:C:2130:HIS:CE1	2.70	0.45
6:C:2214:ARG:HA	6:C:2217:ASN:HD22	1.82	0.45
6:C:3056:GLU:HA	6:C:3092:LEU:HD23	1.99	0.45
6:C:3076:ALA:O	6:C:3079:GLU:HB3	2.17	0.45
6:C:3161:LEU:HD13	6:C:3164:TRP:CH2	2.51	0.45
6:C:3319:ASN:ND2	6:C:3408:GLY:HA3	2.14	0.45
6:C:3411:ASP:O	6:C:3415:THR:CB	2.65	0.45
6:C:3865:THR:CG2	6:C:4115:ASN:HB2	2.40	0.45
6:C:3898:LEU:HD22	6:C:3901:ARG:CZ	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:4017:GLU:HB3	6:C:4031:ILE:HD12	1.97	0.45
6:C:4044:ILE:HG23	6:C:4048:LYS:HD3	1.99	0.45
6:C:4061:CYS:O	6:C:4065:LEU:HG	2.16	0.45
1:A:35:ARG:HG3	1:A:80:ARG:NE	2.31	0.45
1:A:470:ARG:HE	2:B:347:LYS:HG3	1.81	0.45
1:A:485:GLN:OE1	2:B:333:TYR:HD2	1.99	0.45
1:A:491:GLU:O	1:A:494:ALA:HB3	2.17	0.45
2:B:65:ASP:HB3	2:B:78:THR:HG23	1.97	0.45
2:B:108:LEU:HA	2:B:111:LEU:HB2	1.99	0.45
2:B:142:PHE:HE2	2:B:200:GLN:NE2	2.11	0.45
2:B:220:GLY:HA2	2:B:223:GLU:HB3	1.98	0.45
2:B:327:ASP:O	2:B:331:MET:CB	2.65	0.45
4:D:8:DT:C2'	4:D:9:DG:C8	2.98	0.45
5:E:34:DC:N3	5:E:35:DC:C4	2.85	0.45
6:C:33:GLN:HA	6:C:36:ARG:HD2	1.98	0.45
6:C:33:GLN:CD	6:C:2427:ARG:HA	2.37	0.45
6:C:79:ARG:NH2	6:C:121:ALA:HB3	2.31	0.45
6:C:202:GLY:O	6:C:206:THR:HG23	2.17	0.45
6:C:237:SER:H	6:C:279:ALA:HB2	1.82	0.45
6:C:299:LYS:HA	6:C:303:HIS:CD2	2.52	0.45
6:C:374:LYS:HG3	6:C:423:TYR:CE1	2.52	0.45
6:C:421:LEU:HD22	6:C:428:PRO:HG3	1.99	0.45
6:C:472:GLY:HA2	6:C:473:PRO:HD2	1.54	0.45
6:C:796:LEU:HB3	6:C:800:LEU:HD12	1.99	0.45
6:C:924:ARG:HG3	6:C:925:GLN:H	1.82	0.45
6:C:1087:ARG:HG3	6:C:1134:LEU:HD21	1.99	0.45
6:C:1330:TYR:C	6:C:1333:SER:HG	2.20	0.45
6:C:1356:TRP:HH2	6:C:1411:TYR:HD2	1.64	0.45
6:C:1674:THR:O	6:C:1677:SER:HB2	2.16	0.45
6:C:1676:ILE:O	6:C:1679:LEU:HB3	2.17	0.45
6:C:2131:GLY:HA3	6:C:2141:ASN:ND2	2.32	0.45
6:C:2196:TRP:CD1	6:C:2199:LEU:HB2	2.52	0.45
6:C:2336:ILE:HG13	6:C:2337:LEU:H	1.80	0.45
6:C:2413:PHE:CE1	6:C:2445:LYS:HG3	2.51	0.45
6:C:2922:ARG:HD2	6:C:2930:TYR:CE1	2.52	0.45
6:C:3342:SER:O	6:C:3374:ILE:HD12	2.17	0.45
6:C:3529:ILE:HG13	6:C:3532:PRO:CD	2.47	0.45
6:C:3629:ARG:CG	6:C:3633:ILE:HB	2.47	0.45
6:C:3649:SER:O	6:C:3652:LEU:HB3	2.17	0.45
6:C:3723:ASP:HB2	6:C:3739:ILE:HG13	1.98	0.45
6:C:3972:LEU:HD23	6:C:3972:LEU:HA	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3998:LEU:HD12	6:C:4001:THR:CB	2.39	0.45
1:A:106:GLN:HE21	1:A:115:ARG:NE	2.14	0.44
1:A:147:LEU:HB2	1:A:189:LYS:HD3	1.98	0.44
1:A:276:LEU:HD21	2:B:430:LEU:HG	2.00	0.44
1:A:317:LYS:HG2	1:A:318:ARG:N	2.30	0.44
1:A:486:HIS:NE2	1:A:490:LEU:HD11	2.32	0.44
4:D:-8:DT:C2	5:E:45:DG:N2	2.85	0.44
6:C:726:LEU:O	6:C:727:ALA:C	2.55	0.44
6:C:785:MET:HA	6:C:788:TYR:CD2	2.46	0.44
6:C:886:TRP:CZ2	6:C:950:GLU:HG2	2.53	0.44
6:C:931:CYS:HA	6:C:934:LEU:HB2	1.99	0.44
6:C:1025:LEU:O	6:C:1028:PHE:HB3	2.17	0.44
6:C:1036:PHE:CD2	6:C:1085:ILE:HG21	2.52	0.44
6:C:1864:ASP:HA	6:C:1867:ILE:HB	1.97	0.44
6:C:2042:GLN:NE2	6:C:2042:GLN:O	2.50	0.44
6:C:2284:ASP:N	6:C:2284:ASP:OD1	2.49	0.44
6:C:2356:MET:HB3	6:C:2360:PHE:CE2	2.52	0.44
6:C:2368:THR:HG23	6:C:2371:PHE:CD2	2.53	0.44
6:C:2424:MET:HG3	6:C:2436:LEU:HD22	1.99	0.44
6:C:2433:LYS:HB2	6:C:2433:LYS:HE2	1.73	0.44
6:C:2898:LEU:HD23	6:C:2901:LEU:HB2	1.98	0.44
6:C:2911:ARG:HD3	6:C:2913:LYS:HE2	1.99	0.44
6:C:2919:ASP:N	6:C:2919:ASP:OD1	2.49	0.44
6:C:3090:TYR:HB3	6:C:3095:ASP:OD1	2.17	0.44
6:C:3163:THR:HG23	6:C:3164:TRP:N	2.32	0.44
6:C:3314:SER:N	6:C:3315:TYR:HB3	2.32	0.44
6:C:3323:PHE:O	6:C:3326:GLN:N	2.50	0.44
6:C:3585:PHE:O	6:C:3588:TRP:HB3	2.17	0.44
6:C:3629:ARG:HG2	6:C:3630:ARG:N	2.31	0.44
6:C:3751:LEU:HG	6:C:3752:VAL:N	2.29	0.44
6:C:3868:VAL:HB	6:C:4114:PRO:HB2	1.97	0.44
1:A:85:VAL:HG23	1:A:106:GLN:H	1.82	0.44
1:A:144:SER:HA	1:A:147:LEU:HG	2.00	0.44
1:A:247:ARG:HB3	1:A:488:ARG:HH21	1.81	0.44
1:A:301:ARG:NH2	6:C:163:LYS:HA	2.32	0.44
1:A:373:SER:OG	1:A:374:LEU:N	2.49	0.44
2:B:490:LEU:O	2:B:493:CYS:HB2	2.17	0.44
4:D:-6:DT:N3	4:D:-5:DT:N3	2.64	0.44
4:D:17:DG:H1'	4:D:18:DC:C5	2.53	0.44
6:C:77:GLU:HB2	6:C:78:PHE:CE1	2.52	0.44
6:C:165:LYS:HB3	6:C:165:LYS:HE3	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:188:GLU:HA	6:C:191:ASN:OD1	2.17	0.44
6:C:194:GLU:OE2	6:C:230:LEU:HA	2.17	0.44
6:C:435:LEU:O	6:C:439:VAL:HG23	2.17	0.44
6:C:663:ILE:O	6:C:666:PHE:HB3	2.18	0.44
6:C:671:SER:O	6:C:675:ARG:HB3	2.17	0.44
6:C:738:HIS:HE2	6:C:745:VAL:HG13	1.82	0.44
6:C:850:GLU:CB	6:C:854:ARG:HH22	2.29	0.44
6:C:1515:LEU:HD12	6:C:1516:GLU:N	2.33	0.44
6:C:1602:ASP:OD1	6:C:1605:PHE:CD2	2.68	0.44
6:C:2148:LYS:HD3	6:C:2163:HIS:NE2	2.33	0.44
6:C:2278:GLY:O	6:C:2282:ALA:N	2.44	0.44
6:C:2389:PHE:N	6:C:2389:PHE:CD1	2.83	0.44
6:C:2801:ASP:N	6:C:2802:PRO:CD	2.80	0.44
6:C:3031:TRP:HB2	6:C:3033:GLU:H	1.82	0.44
6:C:3345:PRO:HA	6:C:3349:ALA:HB3	2.00	0.44
6:C:3357:ARG:CD	6:C:3380:ARG:HH12	2.30	0.44
6:C:3493:TRP:NE1	6:C:3710:LYS:O	2.50	0.44
6:C:3556:ALA:O	6:C:3559:LYS:HB3	2.17	0.44
6:C:3584:LEU:CB	6:C:3617:LEU:HD11	2.47	0.44
6:C:3667:LEU:HA	6:C:3670:MET:HG2	1.99	0.44
6:C:3864:ARG:NH1	6:C:4077:TYR:CD1	2.86	0.44
6:C:4065:LEU:O	6:C:4068:HIS:HB3	2.16	0.44
1:A:392:LYS:NZ	2:B:462:SER:HG	2.14	0.44
1:A:470:ARG:HA	2:B:345:PHE:HB2	1.99	0.44
2:B:56:LEU:HG	2:B:58:LEU:HG	1.99	0.44
2:B:81:ARG:NE	2:B:90:LEU:HD13	2.32	0.44
2:B:99:GLN:OE1	2:B:99:GLN:N	2.49	0.44
2:B:340:PHE:CD1	2:B:395:TYR:HB2	2.53	0.44
4:D:15:DG:H22	5:E:20:DT:P	2.39	0.44
5:E:20:DT:OP2	5:E:21:DA:N6	2.50	0.44
6:C:13:LEU:O	6:C:16:GLN:HG2	2.17	0.44
6:C:53:LEU:HA	6:C:56:SER:OG	2.17	0.44
6:C:113:SER:O	6:C:116:THR:HB	2.17	0.44
6:C:269:SER:OG	6:C:270:ALA:N	2.49	0.44
6:C:770:LEU:N	6:C:770:LEU:HD12	2.31	0.44
6:C:904:VAL:C	6:C:905:ILE:HG12	2.38	0.44
6:C:1297:PHE:O	6:C:1300:SER:HB3	2.17	0.44
6:C:1481:THR:HA	6:C:1484:LEU:HD23	1.98	0.44
6:C:1564:SER:HA	6:C:1567:ILE:HD12	1.99	0.44
6:C:1922:ALA:HA	6:C:1925:GLU:HB3	1.99	0.44
6:C:1945:TYR:CE2	6:C:1994:VAL:HG11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2086:ASP:HB3	6:C:2090:ARG:CG	2.47	0.44
6:C:2389:PHE:HA	6:C:2392:VAL:HB	2.00	0.44
6:C:2952:ILE:HD12	6:C:2965:TYR:CE1	2.52	0.44
6:C:2960:GLU:OE2	6:C:2962:ARG:HB3	2.17	0.44
6:C:3007:GLU:OE1	6:C:3050:LYS:N	2.34	0.44
6:C:3163:THR:OG1	6:C:3234:CYS:SG	2.56	0.44
6:C:3196:LYS:HA	6:C:3199:PRO:HD2	1.99	0.44
6:C:3280:TYR:OH	6:C:3308:ASP:OD1	2.23	0.44
6:C:3484:THR:HG1	6:C:3516:HIS:CE1	2.30	0.44
6:C:3532:PRO:O	6:C:3535:ILE:HG13	2.18	0.44
6:C:3754:GLY:HA2	6:C:3800:LEU:CB	2.47	0.44
6:C:3860:LYS:CB	6:C:3863:ASN:HB3	2.34	0.44
6:C:3863:ASN:HA	6:C:3866:GLU:CD	2.37	0.44
6:C:3898:LEU:HA	6:C:3898:LEU:HD23	1.69	0.44
6:C:4012:ASP:O	6:C:4016:PHE:HB3	2.17	0.44
6:C:4047:ALA:O	6:C:4051:LEU:CB	2.47	0.44
1:A:238:LYS:O	1:A:242:LEU:HD13	2.17	0.44
1:A:298:THR:CB	2:B:295:TYR:HA	2.48	0.44
2:B:148:ASP:HA	2:B:151:ILE:HD12	1.99	0.44
2:B:325:LYS:O	2:B:328:GLU:HB2	2.17	0.44
2:B:386:ASP:OD1	2:B:387:LEU:N	2.51	0.44
2:B:410:PRO:CA	2:B:419:LEU:HG	2.48	0.44
6:C:79:ARG:NH1	6:C:127:ALA:HB2	2.32	0.44
6:C:204:LEU:HD12	6:C:223:CYS:CB	2.47	0.44
6:C:204:LEU:O	6:C:208:MET:HG3	2.18	0.44
6:C:446:PHE:CD2	6:C:449:TYR:CZ	3.06	0.44
6:C:628:GLU:HG3	6:C:628:GLU:O	2.16	0.44
6:C:661:PRO:O	6:C:664:SER:N	2.50	0.44
6:C:855:VAL:O	6:C:859:LEU:HG	2.17	0.44
6:C:1018:VAL:HG13	6:C:1073:PHE:CE1	2.52	0.44
6:C:1024:THR:O	6:C:1027:ASP:CB	2.64	0.44
6:C:1256:TRP:CE3	6:C:1259:LEU:HD12	2.52	0.44
6:C:1564:SER:HA	6:C:1567:ILE:HB	1.98	0.44
6:C:1567:ILE:HG12	6:C:1571:LEU:HD11	2.00	0.44
6:C:1583:MET:SD	6:C:1646:LEU:HD12	2.58	0.44
6:C:1998:MET:HG3	6:C:1999:GLU:N	2.32	0.44
6:C:2276:LEU:HA	6:C:2276:LEU:HD12	1.68	0.44
6:C:2313:LYS:O	6:C:2315:VAL:HG22	2.18	0.44
6:C:2341:LEU:HA	6:C:2344:LEU:HD12	2.00	0.44
6:C:2454:LEU:O	6:C:2457:PRO:HD2	2.17	0.44
6:C:2455:LEU:O	6:C:2458:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2472:GLN:NE2	6:C:2472:GLN:O	2.50	0.44
6:C:2487:PRO:HD2	6:C:2489:SER:OG	2.18	0.44
6:C:2537:ASP:HA	6:C:2540:LEU:HG	1.97	0.44
6:C:2774:SER:HB2	6:C:2777:HIS:ND1	2.33	0.44
6:C:3011:LEU:O	6:C:3015:SER:HB2	2.18	0.44
6:C:3061:LEU:HD13	6:C:3093:GLN:HE21	1.83	0.44
6:C:3287:ARG:NH1	6:C:3330:LEU:HD23	2.32	0.44
6:C:3423:GLN:O	6:C:3426:LYS:HB3	2.18	0.44
6:C:3571:PHE:HE2	6:C:3690:PHE:HA	1.83	0.44
6:C:3581:PRO:HG2	6:C:3633:ILE:HG12	1.99	0.44
6:C:3861:GLY:O	6:C:3865:THR:HG23	2.17	0.44
6:C:3871:PHE:N	6:C:3874:ARG:HH21	2.16	0.44
6:C:3872:ARG:HH11	6:C:4117:LEU:HD12	1.82	0.44
6:C:3972:LEU:HB2	6:C:3976:GLU:OE2	2.17	0.44
6:C:4011:PHE:O	6:C:4016:PHE:N	2.50	0.44
6:C:4016:PHE:HA	6:C:4019:LYS:HG3	1.99	0.44
1:A:330:GLU:N	1:A:333:GLU:HB2	2.32	0.44
1:A:338:LYS:HD2	1:A:406:ILE:CA	2.48	0.44
2:B:53:GLU:HG2	2:B:84:MET:C	2.38	0.44
4:D:-9:DC:C2	4:D:-8:DT:C6	3.05	0.44
6:C:224:LEU:HD21	6:C:271:GLY:CA	2.47	0.44
6:C:282:PHE:CG	6:C:283:SER:N	2.86	0.44
6:C:290:TYR:CD1	6:C:293:LEU:HB2	2.53	0.44
6:C:393:LYS:HZ1	6:C:1869:LYS:HE2	1.82	0.44
6:C:554:ASN:O	6:C:557:SER:HB2	2.17	0.44
6:C:585:ILE:H	6:C:588:VAL:HG22	1.82	0.44
6:C:1063:LEU:HG	6:C:1063:LEU:H	1.54	0.44
6:C:1445:ARG:NH1	6:C:1495:ASP:HB3	2.32	0.44
6:C:1513:GLY:HA3	6:C:1573:LYS:HZ2	1.83	0.44
6:C:1811:ARG:HG3	6:C:1812:LEU:HG	1.99	0.44
6:C:1952:ILE:HG23	6:C:1956:PHE:CE1	2.52	0.44
6:C:2163:HIS:HB3	6:C:2189:ILE:HD12	2.00	0.44
6:C:2227:LYS:HE2	6:C:2232:ARG:HA	1.99	0.44
6:C:2281:MET:O	6:C:2283:ASN:N	2.51	0.44
6:C:2292:CYS:HG	6:C:2300:PHE:HD1	1.63	0.44
6:C:2367:VAL:C	6:C:2369:LYS:N	2.70	0.44
6:C:2554:PHE:CE1	6:C:2555:LEU:HG	2.53	0.44
6:C:2787:HIS:NE2	6:C:2790:LEU:HG	2.32	0.44
6:C:2894:GLU:HA	6:C:2898:LEU:HB2	1.98	0.44
6:C:3013:TYR:O	6:C:3016:THR:HB	2.17	0.44
6:C:3118:ASP:CG	6:C:3119:VAL:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3161:LEU:HD22	6:C:3164:TRP:NE1	2.31	0.44
6:C:3231:ILE:HG13	6:C:3235:LYS:HZ2	1.83	0.44
6:C:3325:ASP:O	6:C:3328:ILE:N	2.50	0.44
6:C:3530:VAL:HG13	6:C:3531:TYR:N	2.32	0.44
6:C:3555:VAL:HA	6:C:3558:ILE:HG12	1.99	0.44
6:C:3582:GLU:HG2	6:C:3586:LYS:HE2	1.98	0.44
6:C:3701:ILE:HG13	6:C:3719:ILE:HG22	1.99	0.44
6:C:3775:LEU:HD22	6:C:3786:LEU:HB2	2.00	0.44
1:A:36:ASP:HA	1:A:161:MET:CB	2.46	0.44
1:A:39:ILE:CG2	1:A:166:ILE:HG23	2.48	0.44
1:A:76:ILE:HG12	1:A:488:ARG:HH12	1.83	0.44
1:A:90:THR:H	1:A:101:ASN:CA	2.30	0.44
1:A:154:PHE:HE1	1:A:161:MET:SD	2.41	0.44
1:A:179:ASP:OD2	1:A:182:LYS:N	2.51	0.44
1:A:302:THR:CB	1:A:311:LEU:HB2	2.48	0.44
1:A:304:ASN:HA	1:A:311:LEU:HG	1.99	0.44
1:A:317:LYS:HB3	1:A:328:ILE:HD11	2.00	0.44
1:A:367:PHE:CE1	1:A:431:GLY:HA3	2.53	0.44
1:A:379:SER:O	1:A:383:SER:CB	2.58	0.44
2:B:11:VAL:HG11	2:B:114:SER:HB3	1.99	0.44
2:B:118:ILE:HD12	2:B:130:ARG:HD2	1.98	0.44
2:B:242:ARG:CZ	2:B:245:ILE:HG13	2.48	0.44
2:B:400:ARG:NH1	4:D:9:DG:H5''	2.32	0.44
5:E:44:DA:C6	5:E:45:DG:C5	3.06	0.44
6:C:318:SER:O	6:C:321:LYS:HB3	2.18	0.44
6:C:355:ASN:HD21	6:C:357:LYS:CE	2.27	0.44
6:C:384:MET:C	6:C:386:VAL:N	2.71	0.44
6:C:567:GLU:HB3	6:C:609:ALA:HB2	2.00	0.44
6:C:862:LEU:HA	6:C:3169:PRO:CB	2.45	0.44
6:C:907:LEU:H	6:C:2807:GLN:HE22	1.59	0.44
6:C:941:MET:HB3	6:C:941:MET:HE2	1.73	0.44
6:C:963:LYS:NZ	6:C:1006:THR:N	2.65	0.44
6:C:1088:GLU:HG3	6:C:1089:PHE:N	2.31	0.44
6:C:1162:SER:H	6:C:1165:LEU:CD1	2.31	0.44
6:C:1257:LEU:HD23	6:C:1257:LEU:HA	1.72	0.44
6:C:1376:LEU:HD12	6:C:1377:CYS:N	2.32	0.44
6:C:1603:GLN:HA	6:C:1606:ARG:HH22	1.82	0.44
6:C:2002:LYS:N	6:C:2005:ILE:HG23	2.28	0.44
6:C:2518:GLN:O	6:C:2522:ARG:HB2	2.18	0.44
6:C:2791:ILE:HG22	6:C:2795:GLN:CG	2.47	0.44
6:C:2817:LEU:HD22	6:C:2864:GLN:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2831:ASN:HA	6:C:2834:GLN:HG2	2.00	0.44
6:C:2910:VAL:HG22	6:C:2911:ARG:H	1.82	0.44
6:C:3019:ILE:HD12	6:C:3040:TYR:CE1	2.52	0.44
6:C:3126:LEU:HD23	6:C:3126:LEU:HA	1.70	0.44
6:C:3160:LEU:O	6:C:3163:THR:HG22	2.17	0.44
6:C:3356:ALA:HB1	6:C:3384:HIS:ND1	2.32	0.44
6:C:3359:ILE:HG22	6:C:3388:ALA:CB	2.47	0.44
6:C:3464:LYS:HE2	6:C:3468:LEU:HD21	1.99	0.44
6:C:3502:MET:SD	6:C:3517:SER:OG	2.60	0.44
6:C:3763:ARG:HH22	6:C:4009:PRO:N	2.16	0.44
6:C:3811:THR:CA	6:C:3929:MET:HG2	2.46	0.44
1:A:350:PHE:CE2	2:B:458:ILE:HA	2.53	0.44
1:A:471:PHE:HE2	2:B:344:GLY:CA	2.24	0.44
2:B:338:LYS:HD3	2:B:398:ASP:CG	2.38	0.44
2:B:407:VAL:H	2:B:424:LEU:N	2.15	0.44
2:B:524:THR:CA	2:B:527:GLN:HG2	2.40	0.44
5:E:37:DT:H2''	5:E:38:DA:C6	2.53	0.44
5:E:39:DA:N7	5:E:40:DT:C6	2.85	0.44
6:C:92:PHE:HA	6:C:95:LYS:HG2	2.00	0.44
6:C:138:PHE:CE2	6:C:177:LEU:HD22	2.52	0.44
6:C:152:LEU:HD12	6:C:155:LYS:NZ	2.33	0.44
6:C:376:ILE:HD12	6:C:385:TYR:HE2	1.82	0.44
6:C:424:LEU:HD22	6:C:426:THR:OG1	2.18	0.44
6:C:437:HIS:NE2	6:C:1813:SER:HB2	2.32	0.44
6:C:628:GLU:OE2	6:C:630:CYS:HB2	2.18	0.44
6:C:917:LEU:HA	6:C:927:LYS:HZ2	1.81	0.44
6:C:937:MET:O	6:C:940:PHE:HB3	2.17	0.44
6:C:1406:LEU:HD13	6:C:1414:ILE:HG22	1.99	0.44
6:C:1459:HIS:CE1	6:C:1509:GLN:HG3	2.51	0.44
6:C:1752:LEU:HD23	6:C:1892:LYS:CE	2.48	0.44
6:C:1798:LEU:N	6:C:1802:TYR:HB2	2.33	0.44
6:C:2965:TYR:HA	6:C:2968:ALA:HB3	1.98	0.44
6:C:3095:ASP:OD1	6:C:3095:ASP:N	2.51	0.44
6:C:3329:LEU:HB2	6:C:3389:VAL:CG2	2.47	0.44
6:C:3443:PRO:O	6:C:3447:VAL:HG13	2.18	0.44
6:C:3455:LYS:O	6:C:3456:LEU:HD12	2.17	0.44
6:C:3462:ARG:HB2	6:C:3498:TRP:CZ3	2.53	0.44
6:C:3467:ARG:HH11	6:C:4004:VAL:HB	1.83	0.44
6:C:3588:TRP:HA	6:C:3799:ARG:HH22	1.81	0.44
6:C:3926:ASN:OD1	6:C:3927:ASN:N	2.51	0.44
6:C:3963:LEU:HG	6:C:3964:THR:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:4000:ASN:HA	6:C:4003:ASP:HB3	1.99	0.44
1:A:442:ASP:O	2:B:267:ILE:HD13	2.18	0.44
1:A:488:ARG:HD3	1:A:491:GLU:OE1	2.18	0.44
2:B:135:PHE:HA	2:B:164:PHE:H	1.83	0.44
2:B:270:GLU:HG3	2:B:271:ARG:N	2.33	0.44
5:E:24:DG:C6	5:E:25:DG:N7	2.86	0.44
5:E:35:DC:H3'	5:E:35:DC:OP2	2.17	0.44
6:C:584:GLU:HG3	6:C:589:GLY:HA3	1.99	0.44
6:C:728:SER:OG	6:C:758:LEU:HD21	2.18	0.44
6:C:1059:LEU:HA	6:C:1062:ARG:NH1	2.32	0.44
6:C:1369:MET:HB3	6:C:1418:HIS:HB2	2.00	0.44
6:C:1945:TYR:HE2	6:C:1994:VAL:HG11	1.82	0.44
6:C:2086:ASP:HA	6:C:2089:ASN:HB2	1.98	0.44
6:C:2190:VAL:HA	6:C:2193:ILE:CG1	2.42	0.44
6:C:2254:ARG:O	6:C:2258:GLU:HG2	2.17	0.44
6:C:2389:PHE:C	6:C:2392:VAL:H	2.22	0.44
6:C:3059:GLN:HE21	6:C:3063:THR:HG21	1.82	0.44
6:C:3161:LEU:HA	6:C:3163:THR:HG22	1.99	0.44
6:C:3279:SER:O	6:C:3282:ARG:HB2	2.18	0.44
6:C:3545:THR:O	6:C:3552:LYS:HD2	2.18	0.44
6:C:3828:TYR:O	6:C:3832:PRO:HD2	2.17	0.44
6:C:3930:VAL:HA	6:C:3937:VAL:HA	1.99	0.44
6:C:3952:PHE:CG	6:C:4030:GLU:HG2	2.53	0.44
6:C:3972:LEU:C	6:C:3974:MET:H	2.20	0.44
6:C:4002:MET:O	6:C:4005:PHE:HB3	2.18	0.44
6:C:4079:ALA:HA	6:C:4082:ARG:NH1	2.32	0.44
1:A:42:VAL:HB	1:A:87:PHE:CD1	2.53	0.44
1:A:76:ILE:HG22	1:A:249:LYS:O	2.17	0.44
1:A:278:GLN:CD	4:D:1:DG:H3'	2.38	0.44
1:A:404:ARG:HG3	5:E:37:DT:OP1	2.17	0.44
1:A:404:ARG:HG3	5:E:36:DA:H3'	1.99	0.44
1:A:487:PHE:HD1	1:A:488:ARG:NH1	2.16	0.44
5:E:50:DT:H1'	5:E:51:DA:O4'	2.16	0.44
6:C:333:MET:O	6:C:337:LYS:HE3	2.18	0.44
6:C:352:VAL:HG11	6:C:364:ARG:HD2	2.00	0.44
6:C:458:CYS:O	6:C:462:VAL:HG12	2.17	0.44
6:C:570:LYS:O	6:C:573:LEU:HB2	2.18	0.44
6:C:673:THR:O	6:C:677:ALA:CB	2.66	0.44
6:C:673:THR:OG1	6:C:674:VAL:N	2.50	0.44
6:C:970:LEU:HB3	6:C:981:ARG:HH11	1.83	0.44
6:C:1006:THR:HA	6:C:1009:LEU:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1107:TYR:O	6:C:1111:LEU:HB3	2.12	0.44
6:C:1292:LYS:HB3	6:C:1361:LYS:HZ1	1.83	0.44
6:C:1367:HIS:N	6:C:1370:ARG:HH21	2.16	0.44
6:C:1582:LEU:HD11	6:C:1597:LEU:HD13	2.00	0.44
6:C:2052:TYR:HB3	6:C:2060:ARG:HH12	1.83	0.44
6:C:2183:HIS:O	6:C:2184:TYR:C	2.55	0.44
6:C:2501:LEU:HA	6:C:2504:ASP:CG	2.38	0.44
6:C:3114:TYR:HA	6:C:3128:LYS:HE2	2.00	0.44
6:C:3141:PHE:HZ	6:C:3192:LYS:CB	2.30	0.44
6:C:3284:SER:HA	6:C:3287:ARG:CB	2.43	0.44
6:C:3296:GLN:HA	6:C:3299:THR:CB	2.47	0.44
6:C:3450:MET:HB3	6:C:3454:LEU:HB2	2.00	0.44
6:C:3525:TYR:HA	6:C:3529:ILE:HG22	2.00	0.44
6:C:3817:LEU:HD22	6:C:3829:LEU:HD13	1.99	0.44
6:C:3923:ARG:CA	6:C:3927:ASN:HD22	2.31	0.44
6:C:4017:GLU:CG	6:C:4031:ILE:HB	2.47	0.44
6:C:4017:GLU:HG2	6:C:4031:ILE:HB	1.99	0.44
1:A:184:SER:HA	1:A:187:ARG:CG	2.48	0.43
1:A:206:LYS:NZ	1:A:209:GLY:H	2.16	0.43
1:A:277:VAL:HG22	1:A:278:GLN:H	1.83	0.43
1:A:340:PHE:HE1	2:B:489:ARG:HD3	1.83	0.43
2:B:65:ASP:O	2:B:79:VAL:HG23	2.18	0.43
4:D:1:DG:C2	4:D:2:DG:C4	3.06	0.43
5:E:45:DG:H5"	6:C:260:ILE:HA	2.00	0.43
6:C:237:SER:HB2	6:C:241:ASP:OD2	2.18	0.43
6:C:473:PRO:HB3	6:C:476:ARG:NH1	2.33	0.43
6:C:613:HIS:CE1	6:C:655:LEU:HD13	2.53	0.43
6:C:938:VAL:HG13	6:C:962:TYR:HE2	1.83	0.43
6:C:1037:LEU:O	6:C:1041:ILE:HG13	2.17	0.43
6:C:1428:ILE:HD12	6:C:1431:LEU:HD22	1.99	0.43
6:C:1763:THR:HG21	6:C:1857:LYS:HD3	1.99	0.43
6:C:2063:THR:HA	6:C:2066:PHE:CE2	2.53	0.43
6:C:2116:ASP:O	6:C:2155:GLU:HA	2.17	0.43
6:C:2212:ALA:HA	6:C:2215:LEU:HB3	1.99	0.43
6:C:2235:LEU:O	6:C:2236:GLU:C	2.56	0.43
6:C:2319:ALA:HB1	6:C:2323:LEU:HD12	2.00	0.43
6:C:2330:VAL:HG13	6:C:2335:ASN:OD1	2.17	0.43
6:C:2412:TYR:O	6:C:2412:TYR:CG	2.69	0.43
6:C:2823:PHE:HD2	6:C:2829:LYS:HZ1	1.66	0.43
6:C:2949:THR:O	6:C:2952:ILE:HG12	2.17	0.43
6:C:3078:LEU:HD13	6:C:3082:TYR:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3113:ASN:O	6:C:3116:SER:OG	2.26	0.43
6:C:3232:ARG:O	6:C:3235:LYS:N	2.50	0.43
6:C:3477:GLU:HG2	6:C:3481:SER:OG	2.18	0.43
6:C:3522:THR:HA	6:C:3525:TYR:HD2	1.83	0.43
6:C:3578:LEU:HA	6:C:3630:ARG:CZ	2.48	0.43
6:C:3633:ILE:O	6:C:3638:LYS:HG3	2.17	0.43
6:C:3704:GLN:HB3	6:C:3794:VAL:HG21	2.00	0.43
6:C:3819:THR:HG23	6:C:3882:LEU:HD22	2.00	0.43
6:C:3840:LYS:HG2	6:C:4122:GLU:OE2	2.17	0.43
1:A:112:GLY:O	1:A:115:ARG:HB2	2.18	0.43
1:A:365:SER:OG	1:A:434:LEU:HB2	2.18	0.43
1:A:397:LEU:CD1	1:A:437:LEU:HD11	2.48	0.43
1:A:438:PRO:HA	1:A:442:ASP:OD2	2.18	0.43
2:B:10:VAL:HG12	2:B:12:LEU:HD12	2.00	0.43
2:B:312:GLN:H	2:B:324:SER:HA	1.82	0.43
2:B:355:PHE:CD1	2:B:355:PHE:N	2.83	0.43
2:B:511:HIS:HA	2:B:514:ASN:HD22	1.83	0.43
6:C:69:VAL:HG12	6:C:73:LEU:HD11	1.99	0.43
6:C:108:LYS:O	6:C:112:THR:OG1	2.36	0.43
6:C:291:VAL:HA	6:C:294:PHE:HB3	1.99	0.43
6:C:345:PHE:CE2	6:C:367:GLY:HA3	2.53	0.43
6:C:625:ASN:O	6:C:663:ILE:HG22	2.18	0.43
6:C:785:MET:HG2	6:C:789:TYR:N	2.33	0.43
6:C:1065:SER:OG	6:C:1066:LEU:N	2.46	0.43
6:C:1153:LEU:HB3	6:C:1157:PHE:CZ	2.54	0.43
6:C:1352:SER:N	6:C:1353:PRO:HD2	2.33	0.43
6:C:1428:ILE:O	6:C:1431:LEU:HB3	2.18	0.43
6:C:1606:ARG:HA	6:C:1609:ALA:O	2.19	0.43
6:C:2286:PRO:HD2	6:C:2333:ARG:HH22	1.83	0.43
6:C:2412:TYR:OH	6:C:2415:LEU:HB2	2.18	0.43
6:C:2958:LEU:HD23	6:C:3989:ARG:NH1	2.33	0.43
6:C:3009:LYS:HD2	6:C:3050:LYS:HE3	2.00	0.43
6:C:3121:LEU:O	6:C:3124:SER:N	2.50	0.43
6:C:3320:ILE:C	6:C:3323:PHE:HB3	2.38	0.43
6:C:3335:ARG:HG3	6:C:3340:ALA:HB3	1.99	0.43
6:C:3507:ASP:OD2	6:C:3540:TYR:HA	2.19	0.43
6:C:3608:LYS:HG3	6:C:3611:GLU:OE1	2.18	0.43
6:C:3869:THR:HG22	6:C:3872:ARG:HH22	1.83	0.43
6:C:3949:ALA:HA	6:C:3952:PHE:CZ	2.54	0.43
6:C:4100:GLU:O	6:C:4103:GLN:HB2	2.18	0.43
1:A:41:LEU:HD11	1:A:88:TYR:CD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:TYR:CE1	1:A:146:VAL:HG21	2.53	0.43
1:A:103:TYR:CZ	1:A:135:MET:O	2.71	0.43
1:A:244:ARG:HA	1:A:247:ARG:CG	2.48	0.43
1:A:346:MET:HE3	1:A:399:ARG:HB2	2.00	0.43
2:B:400:ARG:CB	4:D:10:DG:H4'	2.48	0.43
2:B:410:PRO:N	2:B:419:LEU:HG	2.33	0.43
4:D:11:DC:C2	4:D:12:DC:C5	3.06	0.43
6:C:446:PHE:HD1	6:C:448:GLN:HA	1.83	0.43
6:C:653:LEU:HB2	6:C:656:GLN:OE1	2.17	0.43
6:C:789:TYR:HB2	6:C:793:LEU:HG	2.01	0.43
6:C:852:ARG:HH21	6:C:3111:MET:HA	1.83	0.43
6:C:934:LEU:HA	6:C:937:MET:CB	2.49	0.43
6:C:970:LEU:CB	6:C:981:ARG:HG3	2.48	0.43
6:C:1034:ARG:HH12	6:C:1038:LYS:N	2.15	0.43
6:C:1351:THR:HB	6:C:1353:PRO:HD2	1.99	0.43
6:C:1567:ILE:HA	6:C:1570:GLU:OE1	2.18	0.43
6:C:1642:LYS:O	6:C:1646:LEU:HG	2.19	0.43
6:C:1655:ILE:HG21	6:C:1681:ASP:HB3	2.00	0.43
6:C:1934:LEU:H	6:C:1937:ARG:HB3	1.83	0.43
6:C:2263:LYS:NZ	6:C:2270:ASN:HA	2.34	0.43
6:C:2323:LEU:HA	6:C:2323:LEU:HD23	1.59	0.43
6:C:2823:PHE:N	6:C:2823:PHE:CD1	2.82	0.43
6:C:2834:GLN:O	6:C:2838:GLN:HG3	2.19	0.43
6:C:3312:VAL:HB	6:C:3315:TYR:CB	2.48	0.43
6:C:3333:THR:OG1	6:C:3385:LEU:HD13	2.19	0.43
6:C:3345:PRO:HD3	6:C:3374:ILE:HD13	2.01	0.43
6:C:3531:TYR:CE2	6:C:3535:ILE:HG23	2.53	0.43
6:C:3759:ARG:HH12	6:C:4008:GLU:CD	2.21	0.43
6:C:3811:THR:HG21	6:C:3926:ASN:HB2	1.99	0.43
6:C:3962:ARG:NH1	6:C:4124:TRP:CE3	2.87	0.43
6:C:4113:ASP:OD1	6:C:4115:ASN:HB3	2.17	0.43
1:A:61:ASP:HA	1:A:64:ILE:CG1	2.48	0.43
1:A:290:ARG:H	2:B:311:ILE:N	2.03	0.43
1:A:368:VAL:CG2	1:A:434:LEU:HD21	2.47	0.43
1:A:420:LEU:N	2:B:439:LYS:HZ1	2.15	0.43
2:B:357:MET:HG3	2:B:423:GLN:HB3	1.99	0.43
2:B:466:LYS:CA	2:B:473:LEU:HG	2.49	0.43
4:D:16:DG:H2''	4:D:17:DG:C6	2.52	0.43
5:E:27:DC:N3	5:E:28:DA:C5	2.86	0.43
5:E:35:DC:C2	5:E:36:DA:N7	2.86	0.43
5:E:44:DA:H2''	5:E:45:DG:H5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:123:CYS:N	6:C:127:ALA:HB3	2.32	0.43
6:C:245:SER:OG	6:C:246:ARG:N	2.51	0.43
6:C:265:TYR:OH	6:C:304:THR:HG21	2.19	0.43
6:C:407:VAL:HG23	6:C:408:TYR:N	2.29	0.43
6:C:461:ILE:O	6:C:462:VAL:C	2.56	0.43
6:C:528:VAL:O	6:C:529:ASP:C	2.56	0.43
6:C:852:ARG:NH2	6:C:3111:MET:HA	2.34	0.43
6:C:865:GLN:H	6:C:865:GLN:HG2	1.67	0.43
6:C:913:ARG:CD	6:C:930:ALA:HA	2.49	0.43
6:C:968:VAL:HA	6:C:971:ARG:NE	2.33	0.43
6:C:1018:VAL:HG13	6:C:1073:PHE:HE1	1.83	0.43
6:C:1347:THR:O	6:C:1351:THR:HG23	2.17	0.43
6:C:1349:LEU:HB3	6:C:1405:ALA:HB1	2.01	0.43
6:C:1372:LEU:HD12	6:C:1372:LEU:HA	1.84	0.43
6:C:1651:LYS:HB3	6:C:1680:ALA:HB1	2.01	0.43
6:C:1652:ILE:HG22	6:C:1653:LEU:HD23	2.01	0.43
6:C:1653:LEU:O	6:C:1657:SER:CB	2.61	0.43
6:C:1672:PHE:O	6:C:1676:ILE:HG12	2.18	0.43
6:C:1722:PHE:O	6:C:1725:GLN:HB3	2.18	0.43
6:C:2270:ASN:O	6:C:2273:GLY:N	2.51	0.43
6:C:2438:ILE:O	6:C:2440:TYR:N	2.51	0.43
6:C:2496:GLN:HA	6:C:2499:PHE:HB3	2.00	0.43
6:C:2809:PHE:HA	6:C:2812:LEU:HD12	2.00	0.43
6:C:3038:GLU:HG3	6:C:3041:LEU:HD22	1.99	0.43
6:C:3168:TYR:N	6:C:3169:PRO:HD2	2.33	0.43
6:C:3401:TRP:HB2	6:C:3452:LYS:HZ2	1.82	0.43
6:C:3521:ILE:HG23	6:C:3522:THR:N	2.33	0.43
6:C:3602:ASN:CB	6:C:3655:LYS:HB3	2.48	0.43
6:C:3857:LEU:HA	6:C:4072:PRO:HB2	1.99	0.43
6:C:4013:TRP:CZ2	6:C:4040:PRO:HB2	2.52	0.43
6:C:4014:LYS:HD3	6:C:4017:GLU:CD	2.38	0.43
6:C:4104:VAL:O	6:C:4105:LYS:C	2.56	0.43
6:C:4107:LEU:HA	6:C:4110:GLN:CD	2.38	0.43
1:A:83:LEU:HD23	1:A:83:LEU:HA	1.78	0.43
1:A:182:LYS:HA	1:A:185:ARG:NH1	2.33	0.43
1:A:271:VAL:HG21	1:A:345:LEU:HD13	2.00	0.43
1:A:274:TYR:CE2	1:A:369:TYR:HB3	2.54	0.43
1:A:440:ALA:O	1:A:444:ARG:N	2.51	0.43
1:A:465:ILE:O	1:A:469:LEU:HG	2.19	0.43
1:A:514:MET:SD	2:B:255:SER:N	2.84	0.43
2:B:332:LYS:HE2	2:B:332:LYS:HB3	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:534:LYS:HE2	2:B:534:LYS:HB2	1.87	0.43
5:E:32:DT:C2	5:E:33:DA:C8	3.07	0.43
5:E:44:DA:H2'	5:E:45:DG:H8	1.81	0.43
6:C:29:LEU:O	6:C:33:GLN:HG2	2.18	0.43
6:C:257:ARG:O	6:C:264:ARG:NE	2.51	0.43
6:C:410:MET:O	6:C:413:PHE:HB2	2.18	0.43
6:C:469:ALA:O	6:C:1552:HIS:HE1	2.02	0.43
6:C:616:LYS:HG3	6:C:620:PHE:CE2	2.53	0.43
6:C:775:GLU:O	6:C:778:ILE:HB	2.18	0.43
6:C:1038:LYS:O	6:C:1041:ILE:HB	2.18	0.43
6:C:1127:CYS:O	6:C:1130:ALA:HB3	2.18	0.43
6:C:1272:GLY:HA3	6:C:1274:ARG:NH2	2.33	0.43
6:C:1407:LYS:NZ	6:C:1415:LEU:HD13	2.33	0.43
6:C:1445:ARG:HA	6:C:1448:LEU:HG	2.01	0.43
6:C:1911:LEU:HD21	6:C:1916:ILE:HB	1.99	0.43
6:C:2103:HIS:O	6:C:2106:ARG:N	2.48	0.43
6:C:2328:ARG:NH1	6:C:2370:SER:HB3	2.14	0.43
6:C:2482:ASP:CA	6:C:2485:ARG:HH21	2.32	0.43
6:C:2928:LYS:CE	6:C:3784:ARG:HH22	2.31	0.43
6:C:3036:TYR:HE2	6:C:3040:TYR:CD2	2.36	0.43
6:C:3247:ARG:CZ	6:C:3324:ARG:HH22	2.32	0.43
6:C:3535:ILE:O	6:C:3538:GLU:HB3	2.19	0.43
6:C:3726:VAL:HG21	6:C:3736:LYS:HB3	1.99	0.43
6:C:3772:ASN:O	6:C:3775:LEU:HB2	2.19	0.43
6:C:3864:ARG:CZ	6:C:4119:ARG:HD3	2.49	0.43
1:A:193:LEU:HA	1:A:193:LEU:HD12	1.78	0.43
1:A:291:GLU:OE2	1:A:292:THR:HG23	2.19	0.43
1:A:343:PRO:HG3	1:A:405:ASN:N	2.31	0.43
1:A:350:PHE:CG	2:B:458:ILE:HG23	2.54	0.43
1:A:370:PRO:HB2	1:A:372:GLU:OE2	2.19	0.43
1:A:395:ALA:HB1	1:A:413:LEU:O	2.19	0.43
2:B:268:LEU:HD13	2:B:360:GLN:HA	2.00	0.43
2:B:520:ALA:O	2:B:524:THR:CB	2.67	0.43
6:C:253:LEU:HA	6:C:300:TRP:CE2	2.53	0.43
6:C:548:GLU:H	6:C:548:GLU:HG3	1.40	0.43
6:C:670:LEU:HD22	6:C:740:ILE:HG23	2.00	0.43
6:C:849:GLU:O	6:C:852:ARG:N	2.50	0.43
6:C:1029:CYS:O	6:C:1085:ILE:HD11	2.19	0.43
6:C:1034:ARG:NH1	6:C:1038:LYS:N	2.66	0.43
6:C:1062:ARG:C	6:C:1066:LEU:HB3	2.39	0.43
6:C:1711:ARG:HG3	6:C:1712:ARG:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1958:GLU:HA	6:C:1961:PHE:HB3	2.01	0.43
6:C:2131:GLY:H	6:C:2140:LEU:HD12	1.83	0.43
6:C:2152:ASN:O	6:C:2156:VAL:HG22	2.19	0.43
6:C:2777:HIS:O	6:C:2780:LEU:HB3	2.18	0.43
6:C:2884:LEU:HD23	6:C:2884:LEU:HA	1.46	0.43
6:C:3024:PRO:O	6:C:3025:PRO:C	2.57	0.43
6:C:3084:GLN:C	6:C:3086:LEU:N	2.70	0.43
6:C:3321:LEU:HD23	6:C:3324:ARG:HG3	2.00	0.43
6:C:3497:SER:OG	6:C:3709:GLY:HA3	2.19	0.43
6:C:3620:PRO:HB2	6:C:3638:LYS:HZ3	1.84	0.43
6:C:4048:LYS:O	6:C:4051:LEU:HB3	2.19	0.43
1:A:261:LEU:HB3	1:A:269:ILE:CG2	2.49	0.43
1:A:409:TYR:CD1	2:B:484:ASN:HB3	2.54	0.43
2:B:277:THR:HG22	2:B:279:VAL:HG13	2.01	0.43
2:B:316:TYR:HD2	2:B:321:VAL:HG21	1.83	0.43
4:D:9:DG:C2	5:E:27:DC:N3	2.86	0.43
4:D:10:DG:C2	5:E:26:DC:O2	2.68	0.43
6:C:75:SER:OG	6:C:76:ILE:N	2.48	0.43
6:C:350:ARG:NH1	6:C:391:ARG:HH21	2.16	0.43
6:C:396:PHE:CE2	6:C:1817:GLN:HG3	2.54	0.43
6:C:408:TYR:N	6:C:408:TYR:CD2	2.87	0.43
6:C:538:ASP:O	6:C:545:LEU:HD13	2.18	0.43
6:C:613:HIS:HE1	6:C:653:LEU:CD2	2.31	0.43
6:C:727:ALA:HA	6:C:730:LEU:HB2	2.01	0.43
6:C:1484:LEU:HD13	6:C:1519:PHE:CZ	2.53	0.43
6:C:1580:LEU:HD11	6:C:1583:MET:SD	2.57	0.43
6:C:1902:GLY:O	6:C:1906:THR:OG1	2.37	0.43
6:C:1973:LYS:HZ3	6:C:1975:LEU:HB2	1.84	0.43
6:C:2304:VAL:O	6:C:2307:MET:HB3	2.18	0.43
6:C:2409:THR:HG22	6:C:2410:GLU:H	1.84	0.43
6:C:2424:MET:HG3	6:C:2436:LEU:HD13	2.01	0.43
6:C:2507:ILE:C	6:C:2510:LEU:H	2.20	0.43
6:C:2932:SER:HA	6:C:2935:GLU:CD	2.38	0.43
6:C:2952:ILE:HG21	6:C:2969:ALA:CB	2.35	0.43
6:C:3152:SER:H	6:C:3154:GLN:N	2.16	0.43
6:C:3640:PHE:O	6:C:3643:HIS:HB2	2.18	0.43
6:C:3978:GLY:O	6:C:3981:TYR:HB3	2.18	0.43
6:C:4013:TRP:HB3	6:C:4035:GLU:OE1	2.19	0.43
1:A:124:GLY:HA3	1:A:126:GLN:HE22	1.84	0.43
1:A:232:HIS:HB2	1:A:423:GLN:C	2.39	0.43
1:A:252:ARG:HG3	1:A:253:LYS:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:GLY:O	1:A:368:VAL:HA	2.19	0.43
1:A:288:LEU:HD23	1:A:295:PRO:HA	2.00	0.43
1:A:318:ARG:NH1	2:B:278:VAL:HG13	2.33	0.43
1:A:422:ASP:N	1:A:422:ASP:OD1	2.50	0.43
2:B:273:LYS:HD2	2:B:273:LYS:N	2.34	0.43
2:B:490:LEU:HD12	2:B:490:LEU:HA	1.75	0.43
6:C:63:PHE:CD2	6:C:103:TYR:CG	3.07	0.43
6:C:70:ARG:HH11	6:C:73:LEU:CB	2.32	0.43
6:C:70:ARG:NH1	6:C:78:PHE:HB2	2.33	0.43
6:C:139:ARG:CZ	6:C:180:LEU:HD21	2.49	0.43
6:C:327:VAL:HG22	6:C:334:HIS:ND1	2.33	0.43
6:C:549:ALA:O	6:C:553:VAL:HG23	2.19	0.43
6:C:607:ASP:HA	6:C:610:ALA:CB	2.37	0.43
6:C:756:PHE:HZ	6:C:776:TRP:CG	2.37	0.43
6:C:977:ASP:HB3	6:C:979:VAL:CG2	2.43	0.43
6:C:1125:GLN:HA	6:C:1128:CYS:CB	2.44	0.43
6:C:1232:PRO:HB2	6:C:1291:LEU:HD13	1.99	0.43
6:C:1253:THR:HA	6:C:1257:LEU:CB	2.46	0.43
6:C:1296:PHE:CE2	6:C:1361:LYS:HG2	2.52	0.43
6:C:1602:ASP:O	6:C:1606:ARG:N	2.47	0.43
6:C:1655:ILE:HA	6:C:1677:SER:CB	2.48	0.43
6:C:1756:PRO:O	6:C:1892:LYS:NZ	2.49	0.43
6:C:1866:GLN:HA	6:C:1869:LYS:CG	2.49	0.43
6:C:2389:PHE:O	6:C:2393:LEU:N	2.52	0.43
6:C:2484:TYR:CB	6:C:2499:PHE:HD1	2.31	0.43
6:C:2559:THR:HG1	6:C:2560:ASN:H	1.67	0.43
6:C:2809:PHE:HA	6:C:2812:LEU:CD1	2.49	0.43
6:C:2852:PRO:O	6:C:2855:VAL:HB	2.18	0.43
6:C:3273:LEU:HD22	6:C:3321:LEU:HD11	2.00	0.43
6:C:3277:VAL:HB	6:C:3324:ARG:HH21	1.82	0.43
6:C:3602:ASN:HA	6:C:3605:ASN:ND2	2.34	0.43
6:C:3729:MET:O	6:C:3734:ARG:HA	2.18	0.43
6:C:3740:ILE:HG13	6:C:3750:PHE:CD2	2.54	0.43
6:C:3756:GLU:HG3	6:C:3758:LEU:HD12	2.00	0.43
1:A:58:THR:OG1	1:A:60:PHE:HB3	2.19	0.43
1:A:204:HIS:HB3	1:A:237:SER:CB	2.37	0.43
1:A:296:VAL:HG11	2:B:295:TYR:CD1	2.50	0.43
2:B:47:PHE:CE2	2:B:491:PHE:CG	3.06	0.43
2:B:165:LEU:HD13	2:B:167:PHE:CD2	2.54	0.43
6:C:224:LEU:HA	6:C:227:LEU:HD23	1.99	0.43
6:C:286:LEU:HD23	6:C:286:LEU:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:389:ILE:HA	6:C:392:CYS:SG	2.59	0.43
6:C:468:LEU:HB3	6:C:476:ARG:HB3	1.99	0.43
6:C:653:LEU:HB2	6:C:656:GLN:CD	2.39	0.43
6:C:660:LEU:H	6:C:660:LEU:HG	1.61	0.43
6:C:677:ALA:O	6:C:681:LYS:CB	2.67	0.43
6:C:736:LEU:C	6:C:739:ASN:H	2.22	0.43
6:C:853:ILE:O	6:C:857:GLN:HG3	2.19	0.43
6:C:1098:GLN:HA	6:C:1101:PHE:CD2	2.54	0.43
6:C:1269:THR:HG21	6:C:1347:THR:HG22	2.00	0.43
6:C:1689:LYS:HZ1	6:C:1727:ARG:HB3	1.82	0.43
6:C:1709:GLU:CD	6:C:1716:GLN:HE22	2.22	0.43
6:C:2285:LEU:O	6:C:2286:PRO:C	2.56	0.43
6:C:2501:LEU:HD12	6:C:2504:ASP:OD2	2.19	0.43
6:C:2518:GLN:O	6:C:2522:ARG:HB3	2.18	0.43
6:C:2912:GLY:O	6:C:2917:PRO:HD3	2.18	0.43
6:C:2981:TRP:CE3	6:C:2987:THR:HB	2.54	0.43
6:C:3414:MET:O	6:C:3417:ALA:HB3	2.18	0.43
6:C:3446:VAL:HA	6:C:3449:LYS:HD3	2.00	0.43
6:C:3495:PHE:CD1	6:C:3498:TRP:CE2	3.07	0.43
6:C:3725:ARG:O	6:C:3739:ILE:HG12	2.18	0.43
6:C:3923:ARG:CB	6:C:3962:ARG:HH22	2.32	0.43
1:A:150:CYS:O	1:A:153:LEU:HB2	2.19	0.43
1:A:310:LEU:HD23	1:A:312:LEU:HD11	2.01	0.43
1:A:346:MET:O	1:A:398:CYS:HA	2.19	0.43
2:B:47:PHE:CD1	2:B:47:PHE:N	2.84	0.43
2:B:138:LEU:O	2:B:201:GLN:HA	2.19	0.43
2:B:251:LEU:HB2	2:B:340:PHE:CD2	2.51	0.43
2:B:368:ARG:O	2:B:369:ASP:HB2	2.19	0.43
2:B:371:GLU:OE1	2:B:371:GLU:N	2.49	0.43
2:B:466:LYS:HA	2:B:473:LEU:HG	2.01	0.43
2:B:521:GLU:O	2:B:525:LYS:HG3	2.18	0.43
5:E:34:DC:H6	5:E:34:DC:O5'	2.01	0.43
6:C:287:LEU:O	6:C:288:ASP:C	2.58	0.43
6:C:294:PHE:CE2	6:C:298:LEU:HD11	2.53	0.43
6:C:376:ILE:HG13	6:C:380:ASP:HA	2.00	0.43
6:C:576:VAL:HG23	6:C:603:ILE:O	2.19	0.43
6:C:754:MET:HE3	6:C:1020:PRO:HG3	2.01	0.43
6:C:970:LEU:HD22	6:C:1031:ARG:NH2	2.34	0.43
6:C:993:HIS:CD2	6:C:2776:ARG:HB2	2.54	0.43
6:C:1013:ILE:HB	6:C:1028:PHE:HD1	1.82	0.43
6:C:1110:SER:O	6:C:1114:ALA:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1121:LEU:HB3	6:C:1123:THR:HG23	2.00	0.43
6:C:1224:PHE:HE1	6:C:1279:LEU:HD23	1.84	0.43
6:C:1356:TRP:HA	6:C:1359:LEU:HD12	2.01	0.43
6:C:1962:TYR:CD2	6:C:1963:GLN:NE2	2.87	0.43
6:C:1977:ILE:HG22	6:C:1978:PHE:N	2.33	0.43
6:C:2234:ASN:O	6:C:2237:ILE:HB	2.19	0.43
6:C:2246:LYS:HE2	6:C:2246:LYS:HB2	1.66	0.43
6:C:2914:ALA:C	6:C:2917:PRO:HD2	2.39	0.43
6:C:3159:ARG:HE	6:C:3162:ASN:ND2	2.16	0.43
6:C:3278:GLN:O	6:C:3282:ARG:HG3	2.19	0.43
6:C:3298:LEU:O	6:C:3302:LYS:HG3	2.18	0.43
6:C:3495:PHE:HZ	6:C:3502:MET:HB2	1.83	0.43
6:C:3571:PHE:CE2	6:C:3690:PHE:HA	2.54	0.43
6:C:3603:LYS:HD3	6:C:3655:LYS:HD2	2.00	0.43
6:C:3710:LYS:HA	6:C:3710:LYS:HD3	1.83	0.43
6:C:3903:HIS:HA	6:C:3906:SER:OG	2.19	0.43
1:A:92:LYS:N	1:A:103:TYR:OH	2.50	0.42
1:A:261:LEU:HB2	1:A:345:LEU:HB2	2.01	0.42
1:A:300:THR:OG1	2:B:291:LYS:HG2	2.19	0.42
1:A:336:GLU:HG3	1:A:339:ARG:NH2	2.33	0.42
1:A:361:TYR:HD1	2:B:353:ARG:NH2	2.17	0.42
1:A:404:ARG:CG	5:E:36:DA:H3'	2.49	0.42
1:A:474:ARG:HG3	1:A:476:ASP:N	2.31	0.42
2:B:15:ASP:HB2	2:B:59:PHE:HE1	1.81	0.42
2:B:327:ASP:HA	2:B:330:GLN:NE2	2.34	0.42
4:D:-8:DT:C2'	4:D:-7:DA:C8	2.92	0.42
4:D:1:DG:N1	5:E:36:DA:C6	2.87	0.42
4:D:6:DT:O4	4:D:7:DA:N6	2.52	0.42
6:C:116:THR:O	6:C:119:ARG:HB3	2.19	0.42
6:C:157:TYR:O	6:C:160:LEU:HG	2.19	0.42
6:C:904:VAL:O	6:C:905:ILE:HG12	2.19	0.42
6:C:925:GLN:HG3	6:C:926:THR:CG2	2.45	0.42
6:C:1014:LEU:HD12	6:C:1015:ASP:N	2.34	0.42
6:C:1054:VAL:O	6:C:1059:LEU:HD21	2.19	0.42
6:C:1085:ILE:O	6:C:1088:GLU:HG2	2.19	0.42
6:C:1220:LEU:HD12	6:C:1274:ARG:HE	1.84	0.42
6:C:1297:PHE:CD1	6:C:1297:PHE:N	2.84	0.42
6:C:1415:LEU:H	6:C:1415:LEU:HG	1.61	0.42
6:C:1925:GLU:O	6:C:1928:ALA:HB3	2.19	0.42
6:C:2022:PRO:HA	6:C:2041:SER:CB	2.49	0.42
6:C:2189:ILE:O	6:C:2192:THR:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2361:ILE:HD12	6:C:2365:ASN:HD21	1.83	0.42
6:C:2379:MET:HG3	6:C:2380:ASN:N	2.33	0.42
6:C:2549:LYS:HD3	6:C:2554:PHE:HB3	2.00	0.42
6:C:2866:ALA:C	6:C:2868:LEU:N	2.72	0.42
6:C:3031:TRP:CE3	6:C:3034:PRO:HD3	2.54	0.42
6:C:3036:TYR:CE1	6:C:3039:THR:HB	2.54	0.42
6:C:3160:LEU:O	6:C:3162:ASN:N	2.52	0.42
6:C:3174:ASP:HB3	6:C:3783:GLN:HE21	1.84	0.42
6:C:3192:LYS:HA	6:C:3195:GLU:CG	2.47	0.42
6:C:3193:ILE:HG21	6:C:3231:ILE:HD13	2.01	0.42
6:C:3252:PHE:HE1	6:C:3285:HIS:CB	2.32	0.42
6:C:3568:ILE:HD11	6:C:3696:ARG:CZ	2.49	0.42
6:C:3774:ILE:HG13	6:C:3777:GLN:CD	2.40	0.42
6:C:3887:PHE:O	6:C:3890:MET:HB3	2.18	0.42
6:C:3922:ASP:HB2	6:C:3943:GLY:N	2.34	0.42
6:C:4073:ALA:HB1	6:C:4119:ARG:HH22	1.84	0.42
1:A:277:VAL:HG21	2:B:429:ASP:OD1	2.19	0.42
1:A:310:LEU:HG	1:A:311:LEU:H	1.83	0.42
1:A:488:ARG:O	1:A:491:GLU:N	2.52	0.42
4:D:-4:DA:H4'	6:C:169:THR:CG2	2.48	0.42
6:C:334:HIS:HB3	6:C:338:LEU:HB2	2.00	0.42
6:C:745:VAL:HA	6:C:748:TYR:HE2	1.84	0.42
6:C:1265:GLU:CD	6:C:1292:LYS:HE3	2.39	0.42
6:C:1282:LEU:HD23	6:C:1287:GLN:HG3	2.00	0.42
6:C:1356:TRP:CG	6:C:1359:LEU:HD12	2.54	0.42
6:C:1482:GLU:C	6:C:1485:SER:H	2.22	0.42
6:C:1732:GLY:O	6:C:1874:TYR:OH	2.36	0.42
6:C:1908:GLY:HA3	6:C:1948:ALA:O	2.20	0.42
6:C:2072:ARG:O	6:C:2076:VAL:HG13	2.18	0.42
6:C:2198:GLY:O	6:C:2201:THR:HB	2.19	0.42
6:C:2393:LEU:O	6:C:2394:LYS:HB3	2.19	0.42
6:C:2396:LEU:C	6:C:2400:VAL:HB	2.38	0.42
6:C:2536:LEU:O	6:C:2540:LEU:HG	2.19	0.42
6:C:2865:HIS:CB	6:C:2868:LEU:HB2	2.38	0.42
6:C:2919:ASP:O	6:C:2923:TRP:HD1	2.03	0.42
6:C:3462:ARG:CZ	6:C:3463:LEU:HD11	2.49	0.42
6:C:3596:LEU:HB3	6:C:3657:SER:HA	2.01	0.42
6:C:3761:ASP:OD2	6:C:3942:PHE:HB2	2.19	0.42
6:C:3887:PHE:CD2	6:C:3897:PHE:CE1	3.07	0.42
1:A:129:LYS:HA	1:A:132:GLN:OE1	2.18	0.42
1:A:287:LYS:O	1:A:295:PRO:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:GLU:HA	1:A:335:GLU:OE2	2.19	0.42
1:A:397:LEU:HD12	1:A:398:CYS:H	1.84	0.42
1:A:484:GLN:HA	1:A:487:PHE:CZ	2.53	0.42
2:B:37:VAL:HG22	2:B:231:LEU:HG	1.99	0.42
2:B:165:LEU:HD13	2:B:167:PHE:CE2	2.55	0.42
2:B:250:ARG:NH2	2:B:260:ARG:HH21	2.17	0.42
4:D:-2:DT:N3	5:E:38:DA:C6	2.87	0.42
5:E:38:DA:H1'	5:E:39:DA:C4	2.54	0.42
6:C:32:HIS:CE1	6:C:81:CYS:SG	3.13	0.42
6:C:75:SER:HB2	6:C:79:ARG:HG2	2.01	0.42
6:C:532:ARG:NH1	6:C:535:LEU:HB3	2.34	0.42
6:C:533:HIS:HA	6:C:536:SER:HB3	2.00	0.42
6:C:738:HIS:NE2	6:C:748:TYR:CD2	2.82	0.42
6:C:868:LYS:HE2	6:C:868:LYS:HB2	1.85	0.42
6:C:993:HIS:O	6:C:1038:LYS:HE3	2.19	0.42
6:C:1108:MET:C	6:C:1111:LEU:HB3	2.39	0.42
6:C:1224:PHE:CE2	6:C:1278:ALA:HB1	2.54	0.42
6:C:1598:ASN:HA	6:C:1601:LEU:CG	2.44	0.42
6:C:1606:ARG:HB3	6:C:1606:ARG:CZ	2.49	0.42
6:C:1713:VAL:HA	6:C:1716:GLN:HB2	2.01	0.42
6:C:1873:TYR:H	6:C:1873:TYR:HD2	1.65	0.42
6:C:1949:ILE:O	6:C:1952:ILE:HG22	2.19	0.42
6:C:2240:THR:OG1	6:C:2241:LEU:HG	2.19	0.42
6:C:2477:LEU:HD23	6:C:2477:LEU:HA	1.69	0.42
6:C:2939:LEU:H	6:C:2939:LEU:HG	1.59	0.42
6:C:3167:ARG:HH21	6:C:3186:ARG:HB3	1.85	0.42
6:C:3262:LEU:O	6:C:3265:GLU:N	2.52	0.42
6:C:3626:GLY:O	6:C:3629:ARG:HB3	2.20	0.42
1:A:89:GLY:CA	1:A:101:ASN:HB3	2.50	0.42
1:A:109:ASP:OD2	1:A:115:ARG:CZ	2.67	0.42
1:A:129:LYS:O	1:A:132:GLN:HB2	2.19	0.42
1:A:414:VAL:HG12	1:A:415:PRO:O	2.19	0.42
2:B:297:LEU:HB2	2:B:302:GLU:C	2.40	0.42
2:B:399:LYS:NZ	5:E:27:DC:H1'	2.34	0.42
5:E:31:DA:C2	5:E:32:DT:C2	3.08	0.42
6:C:134:LEU:O	6:C:137:THR:HB	2.19	0.42
6:C:236:LYS:HB2	6:C:278:HIS:CD2	2.55	0.42
6:C:247:GLU:O	6:C:250:ASN:N	2.53	0.42
6:C:252:VAL:HG11	6:C:268:PRO:HG3	2.00	0.42
6:C:453:MET:O	6:C:456:VAL:HB	2.19	0.42
6:C:916:GLU:OE2	6:C:929:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1145:LEU:HD23	6:C:1145:LEU:HA	1.85	0.42
6:C:1152:ARG:HA	6:C:1155:ARG:CG	2.48	0.42
6:C:1173:LEU:HA	6:C:1173:LEU:HD23	1.80	0.42
6:C:1271:ILE:HB	6:C:1274:ARG:HG3	2.01	0.42
6:C:1568:ASN:O	6:C:1572:LEU:HG	2.19	0.42
6:C:1598:ASN:CA	6:C:1601:LEU:HG	2.43	0.42
6:C:1926:ASN:C	6:C:1929:GLY:H	2.23	0.42
6:C:2032:ALA:HB1	6:C:2036:LEU:HG	2.01	0.42
6:C:2065:ARG:HB2	6:C:2066:PHE:CE1	2.54	0.42
6:C:2076:VAL:HB	6:C:2079:ASP:OD2	2.20	0.42
6:C:2225:HIS:O	6:C:2228:ARG:HB3	2.20	0.42
6:C:2233:HIS:HA	6:C:2236:GLU:OE1	2.19	0.42
6:C:2242:VAL:O	6:C:2245:TRP:CD1	2.70	0.42
6:C:2378:PHE:CD1	6:C:2379:MET:N	2.88	0.42
6:C:2576:MET:HA	6:C:2788:SER:OG	2.19	0.42
6:C:2791:ILE:HA	6:C:2794:LEU:HD12	2.00	0.42
6:C:2840:PHE:HA	6:C:2843:PHE:CB	2.49	0.42
6:C:2923:TRP:HH2	6:C:2998:SER:HA	1.85	0.42
6:C:2927:ALA:O	6:C:2931:ARG:NH1	2.53	0.42
6:C:2987:THR:O	6:C:2991:LYS:HB3	2.19	0.42
6:C:2990:GLU:O	6:C:2994:TRP:HB3	2.19	0.42
6:C:3495:PHE:HA	6:C:3498:TRP:CZ3	2.55	0.42
6:C:3685:PRO:O	6:C:3688:SER:HB2	2.19	0.42
6:C:3718:ARG:HB2	6:C:3743:HIS:HB2	2.02	0.42
6:C:3965:ARG:O	6:C:3968:ILE:HG22	2.19	0.42
6:C:4020:MET:O	6:C:4024:GLY:N	2.52	0.42
1:A:66:CYS:SG	1:A:239:LEU:HD22	2.59	0.42
1:A:176:HIS:CE1	1:A:179:ASP:O	2.72	0.42
1:A:411:VAL:CG1	1:A:436:PHE:HA	2.43	0.42
1:A:486:HIS:HE1	2:B:323:PHE:CE2	2.37	0.42
1:A:488:ARG:HD3	1:A:488:ARG:HA	1.91	0.42
2:B:20:MET:O	2:B:31:PHE:HD2	2.02	0.42
6:C:276:ALA:O	6:C:322:GLN:NE2	2.53	0.42
6:C:278:HIS:HA	6:C:281:GLN:HG3	2.00	0.42
6:C:315:ALA:HA	6:C:318:SER:HB2	2.01	0.42
6:C:369:PHE:CZ	6:C:373:CYS:HA	2.55	0.42
6:C:614:PRO:O	6:C:617:PRO:HD2	2.19	0.42
6:C:623:PHE:HD2	6:C:624:ILE:HB	1.84	0.42
6:C:773:LEU:O	6:C:776:TRP:HB3	2.20	0.42
6:C:1032:CYS:O	6:C:1036:PHE:N	2.50	0.42
6:C:1171:TRP:HZ3	6:C:1176:CYS:SG	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1268:ASN:O	6:C:1274:ARG:HB2	2.19	0.42
6:C:1517:LEU:O	6:C:1520:ALA:HB3	2.19	0.42
6:C:1878:ASP:H	6:C:1881:TYR:HD2	1.66	0.42
6:C:1968:SER:O	6:C:1971:PRO:HG2	2.19	0.42
6:C:2494:ASP:HA	6:C:2497:GLU:CG	2.49	0.42
6:C:2890:ILE:HD11	6:C:2918:PRO:HA	2.02	0.42
6:C:2906:PRO:HB3	6:C:2941:GLY:C	2.39	0.42
6:C:2913:LYS:O	6:C:2917:PRO:HG2	2.18	0.42
6:C:2934:GLY:HA2	6:C:2937:ASP:HB3	2.01	0.42
6:C:2990:GLU:H	6:C:2990:GLU:CD	2.17	0.42
6:C:3077:ILE:HB	6:C:3081:HIS:CE1	2.55	0.42
6:C:3126:LEU:HA	6:C:3129:LEU:HB2	2.01	0.42
6:C:3259:LEU:HD22	6:C:3282:ARG:NH1	2.26	0.42
6:C:3314:SER:CA	6:C:3315:TYR:HB3	2.49	0.42
6:C:3412:ALA:O	6:C:3415:THR:HB	2.19	0.42
6:C:3487:ILE:HD13	6:C:3490:VAL:CG2	2.50	0.42
6:C:3701:ILE:CG1	6:C:3719:ILE:HG22	2.49	0.42
6:C:3767:LEU:O	6:C:3768:PHE:C	2.56	0.42
6:C:3775:LEU:HD13	6:C:3786:LEU:O	2.19	0.42
6:C:3873:LYS:HA	6:C:3877:LYS:NZ	2.35	0.42
6:C:3923:ARG:O	6:C:4124:TRP:CD1	2.72	0.42
6:C:4044:ILE:O	6:C:4048:LYS:HB2	2.18	0.42
6:C:4049:ARG:O	6:C:4052:ALA:HB3	2.20	0.42
6:C:4102:THR:HG1	6:C:4103:GLN:N	2.17	0.42
1:A:128:GLN:NE2	1:A:132:GLN:HE21	2.08	0.42
1:A:220:ILE:HD12	1:A:220:ILE:N	2.34	0.42
2:B:188:HIS:CE1	2:B:519:PRO:HG3	2.55	0.42
2:B:246:HIS:HA	2:B:264:TYR:CE1	2.54	0.42
2:B:377:LEU:O	2:B:381:ILE:HG13	2.20	0.42
2:B:387:LEU:HB2	2:B:389:MET:HG2	2.02	0.42
2:B:523:THR:C	2:B:527:GLN:HE21	2.21	0.42
4:D:-15:DT:H2'	4:D:-14:DA:C8	2.54	0.42
5:E:25:DG:C6	5:E:26:DC:C4	3.07	0.42
5:E:28:DA:H8	5:E:28:DA:C5'	2.32	0.42
6:C:79:ARG:HA	6:C:79:ARG:HD3	1.87	0.42
6:C:241:ASP:O	6:C:244:THR:HB	2.20	0.42
6:C:286:LEU:O	6:C:289:ASN:HB3	2.19	0.42
6:C:670:LEU:HB3	6:C:740:ILE:HG23	2.01	0.42
6:C:706:LEU:C	6:C:709:LYS:H	2.23	0.42
6:C:1051:LYS:O	6:C:1053:PRO:HD3	2.20	0.42
6:C:1060:PHE:HB3	6:C:1064:TYR:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1092:GLU:OE2	6:C:1094:SER:N	2.52	0.42
6:C:1157:PHE:HB2	6:C:1158:PRO:HD3	2.01	0.42
6:C:1412:LYS:HD2	6:C:1415:LEU:HD12	2.02	0.42
6:C:1417:THR:HA	6:C:1420:ARG:HB3	2.02	0.42
6:C:1700:THR:O	6:C:1705:GLY:N	2.53	0.42
6:C:2330:VAL:CG2	6:C:2335:ASN:HA	2.44	0.42
6:C:2425:ARG:NH2	6:C:2456:ASN:HB2	2.33	0.42
6:C:2436:LEU:O	6:C:2440:TYR:CE2	2.72	0.42
6:C:2510:LEU:HD11	6:C:2523:ASN:OD1	2.19	0.42
6:C:2791:ILE:H	6:C:2791:ILE:HG13	1.67	0.42
6:C:2829:LYS:O	6:C:2832:ILE:HB	2.19	0.42
6:C:2920:VAL:CA	6:C:2923:TRP:HD1	2.33	0.42
6:C:3417:ALA:HB2	6:C:3446:VAL:HB	2.01	0.42
6:C:3555:VAL:O	6:C:3558:ILE:N	2.53	0.42
6:C:3566:GLY:O	6:C:3569:GLN:HB2	2.19	0.42
6:C:3602:ASN:ND2	6:C:3655:LYS:O	2.39	0.42
6:C:3631:LYS:O	6:C:3635:THR:HG23	2.19	0.42
6:C:3920:ILE:HG23	6:C:4124:TRP:HH2	1.83	0.42
6:C:4066:LEU:HD12	6:C:4075:ARG:CZ	2.49	0.42
6:C:4117:LEU:HD23	6:C:4117:LEU:HA	1.74	0.42
1:A:63:SER:O	1:A:66:CYS:HB2	2.20	0.42
1:A:129:LYS:O	1:A:132:GLN:N	2.53	0.42
1:A:303:PHE:HD1	1:A:304:ASN:O	2.02	0.42
1:A:352:PRO:HA	1:A:393:GLU:O	2.19	0.42
1:A:384:ALA:HA	1:A:387:ILE:HB	2.00	0.42
1:A:508:LEU:CD2	2:B:394:ARG:HD2	2.50	0.42
2:B:54:ILE:CA	2:B:83:LEU:HD23	2.49	0.42
2:B:141:ARG:HA	2:B:141:ARG:HD3	1.83	0.42
2:B:432:GLN:N	2:B:432:GLN:OE1	2.53	0.42
6:C:82:ARG:HH12	6:C:117:LYS:HG3	1.84	0.42
6:C:100:ILE:O	6:C:103:TYR:N	2.52	0.42
6:C:465:PHE:HD1	6:C:468:LEU:HD12	1.83	0.42
6:C:649:PHE:CZ	6:C:652:GLU:HA	2.54	0.42
6:C:650:SER:O	6:C:652:GLU:HG3	2.20	0.42
6:C:673:THR:HB	6:C:707:PHE:HE2	1.80	0.42
6:C:911:LEU:O	6:C:915:THR:HG23	2.20	0.42
6:C:913:ARG:NH1	6:C:930:ALA:HA	2.35	0.42
6:C:936:SER:CB	6:C:2791:ILE:HG12	2.49	0.42
6:C:993:HIS:CE1	6:C:2777:HIS:CE1	3.08	0.42
6:C:1112:ALA:HA	6:C:1115:HIS:NE2	2.35	0.42
6:C:1115:HIS:C	6:C:1117:ASP:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1232:PRO:HB2	6:C:1291:LEU:CB	2.43	0.42
6:C:1387:GLY:CA	6:C:1391:VAL:HB	2.43	0.42
6:C:1404:LYS:HA	6:C:1407:LYS:CG	2.50	0.42
6:C:1427:SER:O	6:C:1431:LEU:HB2	2.19	0.42
6:C:1524:LEU:HD11	6:C:1560:TYR:O	2.19	0.42
6:C:1682:THR:HA	6:C:1685:ASP:OD2	2.19	0.42
6:C:1888:ASP:O	6:C:1892:LYS:N	2.38	0.42
6:C:1901:HIS:C	6:C:1903:SER:N	2.73	0.42
6:C:2078:ASP:HB2	6:C:2135:ASN:ND2	2.24	0.42
6:C:2202:PRO:HA	6:C:2206:PRO:CD	2.50	0.42
6:C:2281:MET:CE	6:C:2286:PRO:HG2	2.49	0.42
6:C:2331:MET:HA	6:C:2335:ASN:OD1	2.20	0.42
6:C:2439:ILE:HD13	6:C:2440:TYR:CE1	2.55	0.42
6:C:2463:SER:HA	6:C:2470:ARG:HH21	1.82	0.42
6:C:2473:MET:O	6:C:2476:ILE:HG12	2.19	0.42
6:C:3040:TYR:HA	6:C:3043:TYR:CZ	2.54	0.42
6:C:3045:ILE:O	6:C:3048:LYS:HG2	2.19	0.42
6:C:3086:LEU:HD11	6:C:3102:TYR:CD1	2.54	0.42
6:C:3129:LEU:HD23	6:C:3129:LEU:HA	1.76	0.42
6:C:3155:VAL:CG1	6:C:3156:PRO:HD3	2.49	0.42
6:C:3280:TYR:HB2	6:C:3324:ARG:HD2	2.02	0.42
6:C:3313:SER:N	6:C:3315:TYR:HB2	2.28	0.42
6:C:3316:LEU:HD12	6:C:3399:PRO:HB3	2.01	0.42
6:C:3322:ALA:O	6:C:3392:ALA:HB1	2.20	0.42
6:C:3424:LEU:HD23	6:C:3425:ARG:HH12	1.85	0.42
6:C:3630:ARG:HA	6:C:3686:TRP:CE2	2.55	0.42
1:A:114:LYS:N	1:A:114:LYS:HD2	2.35	0.42
1:A:278:GLN:OE1	4:D:1:DG:H3'	2.20	0.42
1:A:338:LYS:HB3	1:A:406:ILE:O	2.20	0.42
1:A:365:SER:CB	1:A:434:LEU:HB2	2.50	0.42
1:A:380:THR:CG2	2:B:446:PRO:HD3	2.50	0.42
1:A:457:GLU:HG3	1:A:458:GLN:N	2.35	0.42
1:A:487:PHE:CD1	1:A:488:ARG:NH1	2.88	0.42
2:B:88:PHE:O	2:B:91:LEU:HB2	2.20	0.42
2:B:151:ILE:HG22	2:B:155:LYS:NZ	2.35	0.42
2:B:170:GLY:O	2:B:194:LEU:HD11	2.20	0.42
2:B:205:LEU:O	2:B:209:LYS:HG3	2.20	0.42
2:B:314:PHE:CB	2:B:321:VAL:HB	2.47	0.42
2:B:464:ALA:N	2:B:475:ASP:HA	2.35	0.42
6:C:147:PHE:CE2	6:C:148:LYS:HG3	2.55	0.42
6:C:184:VAL:O	6:C:190:ILE:HD11	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:315:ALA:O	6:C:318:SER:N	2.50	0.42
6:C:395:MET:HB2	6:C:413:PHE:HZ	1.84	0.42
6:C:460:ALA:O	6:C:463:LYS:HB3	2.19	0.42
6:C:532:ARG:HA	6:C:532:ARG:HD2	1.64	0.42
6:C:654:ILE:HG23	6:C:729:CYS:SG	2.59	0.42
6:C:714:VAL:O	6:C:718:MET:HE2	2.20	0.42
6:C:740:ILE:HD12	6:C:740:ILE:N	2.35	0.42
6:C:1102:GLU:O	6:C:1105:VAL:N	2.53	0.42
6:C:1119:LYS:HE2	6:C:1119:LYS:HB2	1.73	0.42
6:C:1129:ASP:HA	6:C:1132:ASP:CG	2.40	0.42
6:C:1356:TRP:HH2	6:C:1411:TYR:CD2	2.38	0.42
6:C:1400:VAL:CG1	6:C:1404:LYS:HE2	2.49	0.42
6:C:1707:LEU:HD23	6:C:1707:LEU:HA	1.85	0.42
6:C:1814:PHE:HA	6:C:1817:GLN:HB2	2.01	0.42
6:C:1884:LEU:HA	6:C:1887:ASP:CG	2.40	0.42
6:C:1905:ILE:O	6:C:1951:VAL:HG11	2.20	0.42
6:C:1975:LEU:HA	6:C:1976:LEU:HA	1.44	0.42
6:C:2083:LEU:HD22	6:C:2178:GLY:H	1.85	0.42
6:C:2562:LEU:O	6:C:2566:THR:HB	2.20	0.42
6:C:2813:PHE:HA	6:C:2816:ILE:CG2	2.50	0.42
6:C:2906:PRO:CG	6:C:2943:PHE:HB3	2.48	0.42
6:C:2977:ASN:CA	6:C:2980:ASP:HB2	2.49	0.42
6:C:3004:HIS:CE1	6:C:3042:PRO:HB2	2.55	0.42
6:C:3147:LYS:HA	6:C:3150:ASN:OD1	2.20	0.42
6:C:3425:ARG:HD3	6:C:3428:GLU:CD	2.39	0.42
6:C:3459:ASN:CG	6:C:3462:ARG:HE	2.22	0.42
6:C:3774:ILE:N	6:C:3774:ILE:HD12	2.35	0.42
6:C:3880:ALA:HB1	6:C:3969:ASN:HB2	2.01	0.42
6:C:3888:VAL:C	6:C:3891:SER:H	2.23	0.42
6:C:4016:PHE:HA	6:C:4019:LYS:CG	2.50	0.42
6:C:4055:ASN:HD21	6:C:4058:VAL:N	2.08	0.42
1:A:193:LEU:HD12	1:A:196:THR:HB	2.02	0.42
1:A:193:LEU:O	1:A:196:THR:HB	2.20	0.42
1:A:290:ARG:HB3	1:A:291:GLU:H	1.71	0.42
1:A:337:LEU:HA	2:B:489:ARG:NH2	2.35	0.42
1:A:338:LYS:HG2	1:A:407:PRO:HD3	2.02	0.42
1:A:374:LEU:O	2:B:540:ILE:HD11	2.20	0.42
2:B:53:GLU:OE1	2:B:125:LYS:HD2	2.20	0.42
2:B:133:GLU:HB2	2:B:135:PHE:CE1	2.55	0.42
2:B:152:HIS:HA	2:B:155:LYS:CG	2.49	0.42
2:B:159:ILE:HD13	2:B:159:ILE:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:202:LYS:HA	2:B:205:LEU:HB3	2.02	0.42
3:K:11:ALA:HA	3:K:14:ALA:HB3	2.01	0.42
4:D:-8:DT:C4	4:D:-7:DA:N6	2.88	0.42
4:D:7:DA:N6	5:E:28:DA:H61	2.18	0.42
6:C:87:LYS:HG2	6:C:133:LYS:CE	2.47	0.42
6:C:92:PHE:O	6:C:95:LYS:HB2	2.19	0.42
6:C:229:SER:O	6:C:232:CYS:HB2	2.20	0.42
6:C:241:ASP:HA	6:C:244:THR:OG1	2.19	0.42
6:C:384:MET:O	6:C:386:VAL:N	2.52	0.42
6:C:393:LYS:NZ	6:C:397:LEU:HD22	2.35	0.42
6:C:567:GLU:HB2	6:C:1799:GLU:OE1	2.20	0.42
6:C:592:GLU:HA	6:C:595:ASP:HB2	2.01	0.42
6:C:607:ASP:O	6:C:611:ASN:HB2	2.18	0.42
6:C:917:LEU:HD21	6:C:930:ALA:HB1	2.01	0.42
6:C:1010:LEU:HB2	6:C:1028:PHE:HE1	1.82	0.42
6:C:1356:TRP:HE1	6:C:1409:SER:HG	1.62	0.42
6:C:1412:LYS:O	6:C:1416:GLU:HG3	2.19	0.42
6:C:1695:LEU:HD22	6:C:1703:THR:OG1	2.20	0.42
6:C:1882:SER:C	6:C:1885:PRO:HD2	2.40	0.42
6:C:2002:LYS:HA	6:C:2005:ILE:CG1	2.49	0.42
6:C:2084:GLU:HG3	6:C:2181:GLY:HA2	2.01	0.42
6:C:2140:LEU:HA	6:C:2143:ARG:CD	2.48	0.42
6:C:2208:ASP:OD1	6:C:2212:ALA:N	2.41	0.42
6:C:2451:LEU:O	6:C:2454:LEU:HB2	2.20	0.42
6:C:2481:HIS:CE1	6:C:2499:PHE:O	2.72	0.42
6:C:2928:LYS:HZ3	6:C:2959:ALA:HB2	1.85	0.42
6:C:2936:TYR:HB2	6:C:2953:THR:CG2	2.50	0.42
6:C:2969:ALA:HA	6:C:2972:TYR:CE1	2.55	0.42
6:C:3009:LYS:O	6:C:3013:TYR:N	2.31	0.42
6:C:3085:GLU:CA	6:C:3088:LEU:HB2	2.46	0.42
6:C:3273:LEU:HA	6:C:3276:TRP:HD1	1.84	0.42
6:C:3425:ARG:HA	6:C:3428:GLU:CD	2.40	0.42
6:C:3465:PHE:N	6:C:3466:PRO:HD2	2.34	0.42
6:C:3467:ARG:NE	6:C:4003:ASP:OD2	2.53	0.42
6:C:3492:CYS:HB2	6:C:3527:GLN:HB3	2.02	0.42
6:C:3694:PHE:HB2	6:C:3697:ASN:HD22	1.84	0.42
6:C:4079:ALA:O	6:C:4082:ARG:HB2	2.20	0.42
6:C:4082:ARG:HB3	6:C:4091:ALA:HB2	2.00	0.42
1:A:61:ASP:OD1	1:A:65:GLN:NE2	2.53	0.42
1:A:113:ALA:O	1:A:116:ILE:HB	2.20	0.42
1:A:176:HIS:CE1	1:A:182:LYS:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:ARG:HH22	1:A:477:SER:HB2	1.85	0.42
1:A:247:ARG:HB3	1:A:484:GLN:NE2	2.34	0.42
1:A:256:LEU:HD21	5:E:38:DA:C4	2.54	0.42
1:A:315:ASP:N	1:A:315:ASP:OD1	2.51	0.42
1:A:358:LYS:O	2:B:411:HIS:CG	2.73	0.42
1:A:364:PRO:HB2	1:A:365:SER:O	2.20	0.42
1:A:448:PHE:HD1	2:B:416:TYR:CD2	2.37	0.42
1:A:486:HIS:HA	1:A:489:ASN:ND2	2.35	0.42
2:B:39:THR:O	2:B:42:VAL:HB	2.20	0.42
2:B:251:LEU:HD12	2:B:252:THR:N	2.35	0.42
2:B:496:HIS:CE1	2:B:503:GLU:HG3	2.45	0.42
5:E:22:DA:C4	5:E:23:DT:C6	3.07	0.42
6:C:47:SER:HB2	6:C:51:LEU:HG	2.02	0.42
6:C:224:LEU:CA	6:C:227:LEU:HB3	2.49	0.42
6:C:756:PHE:N	6:C:756:PHE:HD1	2.18	0.42
6:C:947:GLN:OE1	6:C:947:GLN:N	2.42	0.42
6:C:1071:ASN:ND2	6:C:3743:HIS:O	2.53	0.42
6:C:1113:LEU:HD21	6:C:1162:SER:O	2.20	0.42
6:C:1412:LYS:O	6:C:1415:LEU:CB	2.64	0.42
6:C:1897:ASN:O	6:C:1900:PHE:HB2	2.20	0.42
6:C:1995:GLU:O	6:C:1998:MET:HG2	2.20	0.42
6:C:2256:ILE:HA	6:C:2259:LYS:CD	2.49	0.42
6:C:2439:ILE:CG2	6:C:2440:TYR:CZ	3.02	0.42
6:C:2534:ASN:ND2	6:C:2537:ASP:HB2	2.32	0.42
6:C:2539:LEU:O	6:C:2542:LEU:HB3	2.20	0.42
6:C:2572:TYR:CE1	6:C:2790:LEU:HD23	2.54	0.42
6:C:2891:ARG:HG3	6:C:2892:LEU:HD23	2.02	0.42
6:C:2937:ASP:OD1	6:C:3975:LYS:HE3	2.20	0.42
6:C:3335:ARG:CG	6:C:3341:LEU:HG	2.50	0.42
6:C:3661:ASP:HA	6:C:3664:ASN:ND2	2.26	0.42
6:C:3872:ARG:HH21	6:C:3873:LYS:CE	2.19	0.42
6:C:3909:ALA:HA	6:C:3984:MET:CE	2.50	0.42
6:C:3964:THR:N	6:C:3967:PHE:CD2	2.88	0.42
6:C:3998:LEU:CD1	6:C:4002:MET:HG2	2.50	0.42
1:A:118:GLU:HG2	1:A:119:LEU:HG	2.01	0.41
1:A:278:GLN:HG3	4:D:2:DG:O5'	2.20	0.41
1:A:451:LYS:HE3	2:B:417:GLU:OE1	2.20	0.41
1:A:459:VAL:HG22	1:A:463:LYS:HG3	2.02	0.41
2:B:111:LEU:O	2:B:115:MET:HG3	2.20	0.41
2:B:355:PHE:O	2:B:425:PRO:HG3	2.20	0.41
2:B:512:ILE:O	2:B:516:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1:DG:N2	4:D:2:DG:C2	2.88	0.41
5:E:40:DT:H2'	5:E:41:DA:O4'	2.20	0.41
6:C:88:PHE:HA	6:C:91:ILE:HD11	2.02	0.41
6:C:188:GLU:O	6:C:191:ASN:HB2	2.20	0.41
6:C:490:ILE:HG21	6:C:530:LEU:HD11	2.03	0.41
6:C:652:GLU:OE1	6:C:722:LYS:NZ	2.38	0.41
6:C:993:HIS:HE1	6:C:2777:HIS:CD2	2.37	0.41
6:C:1163:LEU:HD22	6:C:1256:TRP:HD1	1.82	0.41
6:C:1352:SER:C	6:C:1354:GLU:N	2.73	0.41
6:C:1356:TRP:CH2	6:C:1410:PRO:HA	2.55	0.41
6:C:2187:VAL:HG13	6:C:2188:GLU:N	2.35	0.41
6:C:2260:PHE:CE1	6:C:2263:LYS:HG3	2.54	0.41
6:C:2313:LYS:HZ3	6:C:2314:GLU:CD	2.21	0.41
6:C:2477:LEU:HA	6:C:2480:ILE:HG22	2.02	0.41
6:C:2513:GLU:N	6:C:2518:GLN:OE1	2.52	0.41
6:C:2549:LYS:HD3	6:C:2554:PHE:CB	2.50	0.41
6:C:3064:PHE:HA	6:C:3067:LYS:CG	2.40	0.41
6:C:3080:LEU:HD13	6:C:3105:ASN:HB3	2.01	0.41
6:C:3493:TRP:CD1	6:C:3711:PRO:HA	2.55	0.41
6:C:3758:LEU:HD23	6:C:3761:ASP:HB2	2.02	0.41
6:C:3763:ARG:HB3	6:C:4005:PHE:CE1	2.55	0.41
6:C:3781:CYS:HA	6:C:3786:LEU:HD12	2.02	0.41
6:C:3844:THR:HB	6:C:3849:LYS:NZ	2.34	0.41
6:C:3901:ARG:HD2	6:C:3971:MET:HA	2.02	0.41
6:C:3950:THR:OG1	6:C:3957:GLU:O	2.31	0.41
6:C:4106:CYS:O	6:C:4107:LEU:C	2.58	0.41
1:A:34:GLY:O	1:A:35:ARG:HD3	2.20	0.41
1:A:74:LYS:CG	1:A:83:LEU:HD11	2.45	0.41
1:A:277:VAL:HG22	1:A:278:GLN:N	2.35	0.41
1:A:511:VAL:HG12	2:B:255:SER:HB3	2.01	0.41
2:B:165:LEU:H	2:B:226:SER:HA	1.83	0.41
2:B:191:SER:HB2	2:B:232:ARG:HH21	1.85	0.41
2:B:384:LEU:CA	2:B:389:MET:HB2	2.48	0.41
4:D:-12:DA:N1	5:E:48:DT:C2	2.88	0.41
6:C:100:ILE:HG12	6:C:104:SER:CA	2.50	0.41
6:C:637:LYS:O	6:C:641:PHE:HD2	2.03	0.41
6:C:904:VAL:O	6:C:906:PHE:CD2	2.73	0.41
6:C:987:LEU:HA	6:C:990:GLN:HG2	2.02	0.41
6:C:1304:HIS:HA	6:C:1307:ILE:CG1	2.50	0.41
6:C:1654:GLN:HE21	6:C:1673:THR:HA	1.85	0.41
6:C:1762:MET:HG3	6:C:1863:PHE:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1920:TYR:O	6:C:1924:THR:OG1	2.21	0.41
6:C:1938:ARG:O	6:C:1990:PHE:HE1	2.03	0.41
6:C:2115:GLU:HA	6:C:2154:GLU:HB2	2.02	0.41
6:C:2196:TRP:CB	6:C:2199:LEU:HB2	2.50	0.41
6:C:2413:PHE:HD1	6:C:2442:MET:HG2	1.86	0.41
6:C:2806:LYS:HA	6:C:2809:PHE:CE1	2.56	0.41
6:C:2806:LYS:HA	6:C:2809:PHE:CZ	2.56	0.41
6:C:2826:LEU:O	6:C:2829:LYS:HB2	2.20	0.41
6:C:2930:TYR:C	6:C:2933:ILE:H	2.23	0.41
6:C:2947:ILE:O	6:C:2951:GLN:HG3	2.21	0.41
6:C:3036:TYR:CE2	6:C:3040:TYR:CD2	3.08	0.41
6:C:3044:MET:HA	6:C:3047:SER:HB2	2.01	0.41
6:C:3274:VAL:O	6:C:3277:VAL:HG22	2.20	0.41
6:C:3316:LEU:HD11	6:C:3403:CYS:HB2	2.02	0.41
6:C:3732:LEU:HB2	6:C:4023:LYS:NZ	2.35	0.41
6:C:3756:GLU:O	6:C:3800:LEU:HA	2.20	0.41
6:C:3923:ARG:HA	6:C:3927:ASN:HD22	1.86	0.41
6:C:3947:GLY:HA3	6:C:4064:LEU:CD1	2.50	0.41
6:C:4106:CYS:SG	6:C:4107:LEU:N	2.94	0.41
1:A:432:PHE:O	1:A:434:LEU:HD12	2.20	0.41
2:B:151:ILE:HG23	2:B:215:LEU:HB2	2.02	0.41
2:B:206:GLU:OE2	2:B:209:LYS:NZ	2.32	0.41
2:B:283:THR:OG1	2:B:284:LEU:N	2.53	0.41
2:B:285:LYS:HB3	2:B:287:GLU:OE1	2.21	0.41
5:E:22:DA:C8	5:E:23:DT:H71	2.56	0.41
5:E:41:DA:N3	5:E:41:DA:H2'	2.36	0.41
6:C:27:ALA:N	6:C:77:GLU:OE1	2.35	0.41
6:C:135:LEU:HB3	6:C:176:GLU:OE2	2.19	0.41
6:C:465:PHE:CD1	6:C:468:LEU:HD12	2.55	0.41
6:C:597:ALA:HB2	6:C:1080:LEU:HD11	2.02	0.41
6:C:637:LYS:HA	6:C:641:PHE:HB3	2.01	0.41
6:C:658:THR:HA	6:C:733:LEU:CD2	2.47	0.41
6:C:716:VAL:O	6:C:717:LYS:C	2.57	0.41
6:C:779:TYR:HA	6:C:782:ARG:HB2	2.02	0.41
6:C:1147:LYS:HZ1	6:C:1151:ARG:HH12	1.68	0.41
6:C:1346:THR:HA	6:C:1349:LEU:HB2	2.02	0.41
6:C:1387:GLY:O	6:C:1392:MET:N	2.52	0.41
6:C:1604:SER:O	6:C:1607:GLU:HB2	2.20	0.41
6:C:1684:LEU:HD23	6:C:1687:HIS:ND1	2.34	0.41
6:C:1715:GLU:HB3	6:C:1746:PHE:HE2	1.85	0.41
6:C:1762:MET:O	6:C:1763:THR:OG1	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2072:ARG:HG2	6:C:2075:THR:HG23	2.02	0.41
6:C:2457:PRO:HA	6:C:2460:GLU:CG	2.49	0.41
6:C:2894:GLU:CD	6:C:3973:PRO:HB2	2.40	0.41
6:C:3120:LEU:HD13	6:C:3125:ARG:NE	2.34	0.41
6:C:3179:TRP:CG	6:C:3249:GLN:NE2	2.83	0.41
6:C:3545:THR:O	6:C:3552:LYS:HB2	2.20	0.41
6:C:3579:SER:HB3	6:C:3736:LYS:HG3	2.01	0.41
6:C:3830:SER:O	6:C:3833:ARG:HG3	2.20	0.41
6:C:3873:LYS:CA	6:C:3877:LYS:HZ3	2.33	0.41
6:C:3883:LEU:HB2	6:C:3970:LEU:HB2	2.02	0.41
6:C:3884:LYS:N	6:C:3970:LEU:HD13	2.35	0.41
6:C:4106:CYS:C	6:C:4110:GLN:HG3	2.41	0.41
1:A:49:PHE:CE1	1:A:137:HIS:HD2	2.38	0.41
1:A:203:MET:HG2	1:A:237:SER:O	2.21	0.41
1:A:255:ALA:HB2	2:B:433:TYR:OH	2.20	0.41
1:A:482:VAL:HG22	2:B:333:TYR:HE2	1.85	0.41
2:B:107:PHE:CE2	2:B:140:SER:HB2	2.47	0.41
2:B:108:LEU:HD23	2:B:111:LEU:HD22	2.02	0.41
2:B:339:CYS:H	2:B:396:ALA:HB3	1.84	0.41
4:D:-12:DA:H2'	4:D:-11:DA:C8	2.55	0.41
6:C:171:LEU:HA	6:C:174:VAL:HG23	2.01	0.41
6:C:376:ILE:HG13	6:C:381:VAL:H	1.86	0.41
6:C:482:VAL:HG13	6:C:485:GLN:OE1	2.20	0.41
6:C:532:ARG:HD2	6:C:535:LEU:HB2	2.01	0.41
6:C:738:HIS:NE2	6:C:745:VAL:HG13	2.36	0.41
6:C:1346:THR:HA	6:C:1349:LEU:HD12	2.01	0.41
6:C:1378:GLU:HG3	6:C:1382:ILE:HD11	2.01	0.41
6:C:1486:LEU:HD21	6:C:1492:ALA:HB2	2.02	0.41
6:C:1964:GLY:O	6:C:1967:PHE:HB3	2.21	0.41
6:C:2099:ALA:HA	6:C:2102:LYS:HE2	2.03	0.41
6:C:2167:PRO:HG2	6:C:2215:LEU:HD11	2.03	0.41
6:C:2246:LYS:HG3	6:C:2246:LYS:HZ3	1.62	0.41
6:C:2348:GLN:HG2	6:C:2352:HIS:HE2	1.84	0.41
6:C:2382:VAL:HA	6:C:2385:LEU:CB	2.26	0.41
6:C:2547:SER:CB	6:C:2842:ARG:HH21	2.33	0.41
6:C:2940:ARG:HB3	6:C:3975:LYS:NZ	2.36	0.41
6:C:3011:LEU:HG	6:C:3047:SER:HA	2.02	0.41
6:C:3037:GLN:HA	6:C:3040:TYR:CE2	2.55	0.41
6:C:3268:THR:H	6:C:3271:ASP:CB	2.31	0.41
6:C:3283:LEU:O	6:C:3285:HIS:N	2.54	0.41
6:C:3317:SER:C	6:C:3319:ASN:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3462:ARG:NH1	6:C:3498:TRP:HB3	2.35	0.41
6:C:3479:THR:HA	6:C:3483:MET:HE3	2.02	0.41
6:C:3490:VAL:HG23	6:C:3494:GLN:HB2	2.02	0.41
6:C:3621:LYS:HA	6:C:3629:ARG:HH11	1.85	0.41
6:C:3789:ARG:HD2	6:C:3790:THR:H	1.85	0.41
6:C:3931:ALA:HB3	6:C:3934:THR:HG22	2.02	0.41
6:C:4121:TRP:CG	6:C:4122:GLU:N	2.88	0.41
1:A:130:ARG:O	1:A:134:MET:HE2	2.20	0.41
1:A:404:ARG:HD2	5:E:36:DA:OP2	2.21	0.41
1:A:468:LYS:N	1:A:468:LYS:HD2	2.36	0.41
2:B:122:THR:HG21	2:B:130:ARG:HD3	2.02	0.41
2:B:186:GLY:O	2:B:514:ASN:HB3	2.21	0.41
2:B:326:VAL:O	2:B:330:GLN:HG2	2.20	0.41
2:B:390:VAL:HG12	2:B:409:PHE:CE1	2.55	0.41
2:B:510:GLN:O	2:B:513:TRP:N	2.53	0.41
5:E:25:DG:N1	5:E:26:DC:C4	2.88	0.41
5:E:40:DT:H2'	5:E:41:DA:H8	1.81	0.41
6:C:277:LEU:CD1	6:C:279:ALA:HB3	2.50	0.41
6:C:316:LEU:HD21	6:C:363:ILE:HG23	2.02	0.41
6:C:394:GLN:O	6:C:398:THR:OG1	2.19	0.41
6:C:421:LEU:HD23	6:C:421:LEU:HA	1.79	0.41
6:C:530:LEU:H	6:C:530:LEU:CD1	2.33	0.41
6:C:615:ALA:O	6:C:616:LYS:C	2.56	0.41
6:C:973:ALA:CB	6:C:981:ARG:H	2.31	0.41
6:C:1238:GLN:NE2	6:C:1297:PHE:O	2.53	0.41
6:C:1239:PRO:HB2	6:C:1243:TYR:CE2	2.56	0.41
6:C:1557:GLU:HA	6:C:1561:SER:HB2	2.03	0.41
6:C:1722:PHE:HA	6:C:1725:GLN:OE1	2.21	0.41
6:C:2001:LYS:CD	6:C:2002:LYS:HE2	2.50	0.41
6:C:2121:ASP:C	6:C:2127:LYS:HB2	2.41	0.41
6:C:2144:LEU:HA	6:C:2144:LEU:HD23	1.66	0.41
6:C:2216:LEU:O	6:C:2220:MET:HG3	2.20	0.41
6:C:2323:LEU:HA	6:C:2326:ILE:HB	2.00	0.41
6:C:2379:MET:CA	6:C:2382:VAL:HG22	2.47	0.41
6:C:2424:MET:CG	6:C:2436:LEU:HD22	2.51	0.41
6:C:2481:HIS:CD2	6:C:2485:ARG:NH1	2.88	0.41
6:C:2853:PRO:HA	6:C:2856:SER:CB	2.49	0.41
6:C:3010:SER:O	6:C:3014:CYS:HB2	2.20	0.41
6:C:3062:LEU:HD12	6:C:3065:ILE:CG2	2.50	0.41
6:C:3166:ASN:O	6:C:3186:ARG:NH2	2.34	0.41
6:C:3173:MET:CG	6:C:3174:ASP:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3191:SER:OG	6:C:3192:LYS:N	2.54	0.41
6:C:3246:ALA:O	6:C:3249:GLN:N	2.53	0.41
6:C:3250:ASN:OD1	6:C:3285:HIS:NE2	2.54	0.41
6:C:3264:LYS:HE2	6:C:3264:LYS:HB3	1.86	0.41
6:C:3339:ASN:CA	6:C:3342:SER:HB2	2.50	0.41
6:C:3386:SER:HA	6:C:3419:PHE:CE2	2.55	0.41
6:C:3447:VAL:HA	6:C:3465:PHE:CE1	2.55	0.41
6:C:3463:LEU:HD23	6:C:3463:LEU:HA	1.76	0.41
6:C:3630:ARG:HA	6:C:3686:TRP:NE1	2.36	0.41
6:C:3690:PHE:CD1	6:C:3690:PHE:C	2.93	0.41
6:C:4074:PHE:O	6:C:4077:TYR:N	2.53	0.41
1:A:72:ILE:O	1:A:75:ILE:HB	2.21	0.41
1:A:167:MET:HE1	1:A:203:MET:N	2.22	0.41
1:A:256:LEU:HD11	5:E:38:DA:N3	2.36	0.41
1:A:263:LEU:HD21	1:A:381:LEU:HD21	2.02	0.41
1:A:470:ARG:NE	2:B:347:LYS:HG3	2.36	0.41
1:A:525:PHE:HA	1:A:528:LEU:HD12	2.02	0.41
2:B:133:GLU:HB2	2:B:135:PHE:CZ	2.56	0.41
2:B:262:ALA:HB3	2:B:365:PHE:O	2.20	0.41
2:B:400:ARG:HG2	4:D:10:DG:H1'	2.02	0.41
4:D:9:DG:C6	5:E:27:DC:C4	3.08	0.41
5:E:19:DC:H1'	5:E:20:DT:H1'	2.02	0.41
5:E:23:DT:C2	5:E:24:DG:C8	3.09	0.41
6:C:66:LEU:HA	6:C:69:VAL:HB	2.03	0.41
6:C:151:GLU:O	6:C:155:LYS:HG3	2.21	0.41
6:C:173:LYS:HA	6:C:176:GLU:CB	2.31	0.41
6:C:321:LYS:HE3	6:C:325:ASN:ND2	2.36	0.41
6:C:325:ASN:O	6:C:329:LYS:HG3	2.21	0.41
6:C:376:ILE:HA	6:C:379:LYS:O	2.20	0.41
6:C:559:SER:O	6:C:562:HIS:N	2.53	0.41
6:C:850:GLU:HB3	6:C:854:ARG:CZ	2.50	0.41
6:C:908:ASP:OD1	6:C:912:PRO:HD2	2.20	0.41
6:C:1076:LEU:C	6:C:1127:CYS:SG	2.99	0.41
6:C:1115:HIS:HD2	6:C:1119:LYS:HG2	1.85	0.41
6:C:1133:HIS:CD2	6:C:1136:ARG:HH22	2.37	0.41
6:C:1216:GLY:HA2	6:C:1219:PHE:HD2	1.85	0.41
6:C:1498:GLN:O	6:C:1501:PRO:HD2	2.20	0.41
6:C:1713:VAL:HA	6:C:1716:GLN:OE1	2.21	0.41
6:C:1735:ARG:O	6:C:1736:PHE:HB2	2.21	0.41
6:C:1985:LYS:HD2	6:C:2037:SER:HA	2.03	0.41
6:C:2000:ARG:HD3	6:C:2051:SER:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2148:LYS:NZ	6:C:2192:THR:HG21	2.36	0.41
6:C:2938:VAL:O	6:C:2942:ILE:N	2.52	0.41
6:C:3010:SER:HA	6:C:3013:TYR:HB3	2.03	0.41
6:C:3021:SER:HA	6:C:3024:PRO:HG3	2.02	0.41
6:C:3102:TYR:CD1	6:C:3105:ASN:ND2	2.89	0.41
6:C:3293:CYS:O	6:C:3335:ARG:NE	2.54	0.41
6:C:3298:LEU:O	6:C:3299:THR:C	2.58	0.41
6:C:3503:VAL:HG21	6:C:3535:ILE:HB	2.03	0.41
6:C:3536:SER:O	6:C:3540:TYR:N	2.53	0.41
6:C:3581:PRO:CG	6:C:3633:ILE:HG12	2.51	0.41
6:C:3723:ASP:OD1	6:C:3741:ARG:HG3	2.21	0.41
6:C:3907:SER:O	6:C:3909:ALA:N	2.54	0.41
6:C:3923:ARG:NH2	6:C:3941:ASP:N	2.67	0.41
6:C:3981:TYR:O	6:C:3984:MET:N	2.54	0.41
6:C:4051:LEU:HD13	6:C:4060:THR:OG1	2.20	0.41
1:A:194:ARG:HE	1:A:222:SER:HA	1.84	0.41
1:A:338:LYS:HE2	1:A:339:ARG:HH12	1.84	0.41
1:A:352:PRO:HG2	1:A:355:LEU:HD12	2.02	0.41
1:A:363:ARG:N	2:B:359:ASN:HA	2.35	0.41
2:B:153:SER:O	2:B:156:LYS:HB2	2.21	0.41
2:B:153:SER:HA	2:B:156:LYS:NZ	2.35	0.41
2:B:529:PRO:O	2:B:533:ILE:HG12	2.20	0.41
4:D:16:DG:H1'	4:D:17:DG:C2	2.56	0.41
5:E:46:DT:H2'	5:E:47:DT:C5	2.54	0.41
6:C:175:TYR:CE1	6:C:200:PHE:CD1	3.09	0.41
6:C:325:ASN:O	6:C:328:ALA:HB3	2.21	0.41
6:C:346:TYR:HA	6:C:349:ILE:CG1	2.50	0.41
6:C:375:VAL:HG11	6:C:379:LYS:HE3	2.03	0.41
6:C:401:ASP:OD1	6:C:401:ASP:N	2.53	0.41
6:C:474:VAL:HG23	6:C:475:LEU:N	2.34	0.41
6:C:484:HIS:CE1	6:C:556:SER:N	2.89	0.41
6:C:704:PHE:HA	6:C:707:PHE:HB3	2.02	0.41
6:C:719:LYS:HG2	6:C:754:MET:HG2	2.01	0.41
6:C:724:GLU:O	6:C:728:SER:HB2	2.20	0.41
6:C:789:TYR:HD1	6:C:793:LEU:HD12	1.84	0.41
6:C:938:VAL:HG22	6:C:962:TYR:CZ	2.56	0.41
6:C:991:LEU:HG	6:C:995:PHE:HE2	1.85	0.41
6:C:1157:PHE:O	6:C:1160:SER:HB2	2.21	0.41
6:C:1169:VAL:O	6:C:1172:LEU:HB2	2.21	0.41
6:C:1471:GLN:O	6:C:1475:LEU:HB2	2.21	0.41
6:C:1758:LEU:CB	6:C:1761:LEU:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:2241:LEU:HG	6:C:2241:LEU:H	1.40	0.41
6:C:2274:ILE:O	6:C:2275:GLN:C	2.57	0.41
6:C:2286:PRO:HB2	6:C:2290:PRO:HD3	2.03	0.41
6:C:2363:CYS:O	6:C:2367:VAL:HG23	2.21	0.41
6:C:2396:LEU:O	6:C:2397:CYS:C	2.59	0.41
6:C:2481:HIS:CG	6:C:2506:LEU:HD11	2.56	0.41
6:C:2857:CYS:HA	6:C:2860:ASP:OD2	2.20	0.41
6:C:2887:PRO:O	6:C:2890:ILE:CB	2.53	0.41
6:C:2927:ALA:O	6:C:2931:ARG:HB3	2.21	0.41
6:C:2934:GLY:HA2	6:C:2937:ASP:HB2	2.02	0.41
6:C:3077:ILE:O	6:C:3081:HIS:CD2	2.74	0.41
6:C:3254:LEU:HA	6:C:3257:LYS:HB3	2.03	0.41
6:C:3272:TRP:O	6:C:3273:LEU:C	2.59	0.41
6:C:3321:LEU:HD23	6:C:3321:LEU:HA	1.90	0.41
6:C:3505:LEU:HD12	6:C:3509:ASP:CB	2.49	0.41
6:C:3530:VAL:HG13	6:C:3531:TYR:H	1.85	0.41
6:C:3568:ILE:HA	6:C:3571:PHE:HB3	2.02	0.41
6:C:3613:MET:O	6:C:3616:ALA:N	2.54	0.41
6:C:3631:LYS:HA	6:C:3631:LYS:HD3	1.86	0.41
6:C:3652:LEU:CD2	6:C:3653:ARG:HH12	2.34	0.41
6:C:3923:ARG:NH1	6:C:3941:ASP:HB2	2.36	0.41
6:C:3982:SER:O	6:C:3986:HIS:ND1	2.54	0.41
6:C:4113:ASP:HA	6:C:4114:PRO:HD2	1.94	0.41
1:A:41:LEU:HD22	1:A:150:CYS:SG	2.61	0.41
1:A:76:ILE:HG12	1:A:487:PHE:CE1	2.56	0.41
1:A:130:ARG:O	1:A:134:MET:CB	2.66	0.41
1:A:420:LEU:HB2	2:B:439:LYS:NZ	2.35	0.41
2:B:99:GLN:HG2	2:B:101:GLY:H	1.86	0.41
2:B:134:ILE:HB	2:B:163:PHE:CE1	2.55	0.41
2:B:251:LEU:HD11	2:B:342:VAL:CG2	2.44	0.41
4:D:15:DG:C2	4:D:16:DG:N1	2.89	0.41
5:E:35:DC:N3	5:E:36:DA:C5	2.89	0.41
5:E:44:DA:C2'	5:E:45:DG:O4'	2.68	0.41
6:C:300:TRP:CZ3	6:C:301:CYS:HB2	2.55	0.41
6:C:435:LEU:HD11	6:C:475:LEU:CD2	2.50	0.41
6:C:437:HIS:ND1	6:C:1812:LEU:HA	2.36	0.41
6:C:579:LEU:HB2	6:C:601:TRP:HH2	1.85	0.41
6:C:1002:GLU:HA	6:C:1005:ASP:HB2	2.02	0.41
6:C:1013:ILE:HB	6:C:1028:PHE:CD1	2.56	0.41
6:C:1025:LEU:H	6:C:1025:LEU:HG	1.46	0.41
6:C:1141:LYS:HA	6:C:1146:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1282:LEU:O	6:C:1287:GLN:HB2	2.20	0.41
6:C:1715:GLU:H	6:C:1715:GLU:CD	2.21	0.41
6:C:2117:SER:CB	6:C:2158:ARG:H	2.27	0.41
6:C:2146:LEU:HB3	6:C:2149:LEU:HD12	2.02	0.41
6:C:2185:MET:HG2	6:C:2189:ILE:HG13	2.03	0.41
6:C:2341:LEU:O	6:C:2345:VAL:HG23	2.21	0.41
6:C:2435:CYS:SG	6:C:2436:LEU:HG	2.61	0.41
6:C:2452:ARG:HA	6:C:2455:LEU:HD12	2.03	0.41
6:C:2507:ILE:HG13	6:C:2510:LEU:HB3	2.03	0.41
6:C:2872:ASP:OD1	6:C:2877:SER:N	2.54	0.41
6:C:3098:ARG:O	6:C:3102:TYR:CD2	2.74	0.41
6:C:3190:LEU:O	6:C:3193:ILE:HB	2.20	0.41
6:C:3632:PHE:HE2	6:C:3736:LYS:HZ1	1.68	0.41
6:C:3704:GLN:HE21	6:C:3802:LEU:HD22	1.86	0.41
6:C:3820:MET:HB3	6:C:3829:LEU:HD22	2.03	0.41
6:C:3928:PHE:HA	6:C:3938:ILE:O	2.21	0.41
1:A:74:LYS:HD2	1:A:79:ASP:HB2	2.03	0.41
1:A:76:ILE:HG23	1:A:487:PHE:CE1	2.56	0.41
1:A:90:THR:CG2	1:A:137:HIS:HA	2.50	0.41
1:A:95:ASN:OD1	1:A:95:ASN:C	2.59	0.41
1:A:112:GLY:O	1:A:116:ILE:N	2.42	0.41
1:A:189:LYS:O	1:A:192:ASP:HB2	2.20	0.41
1:A:254:ARG:NH1	1:A:275:ASN:OD1	2.42	0.41
1:A:277:VAL:HB	2:B:429:ASP:O	2.21	0.41
1:A:321:ILE:H	2:B:274:LYS:NZ	2.03	0.41
2:B:246:HIS:HE1	2:B:248:PRO:HA	1.86	0.41
2:B:262:ALA:HB1	2:B:264:TYR:CZ	2.56	0.41
2:B:333:TYR:CG	2:B:334:LYS:N	2.89	0.41
2:B:521:GLU:HG2	2:B:522:VAL:N	2.34	0.41
4:D:15:DG:N2	4:D:16:DG:H1	2.19	0.41
5:E:30:DA:C6	5:E:31:DA:C5	3.08	0.41
5:E:31:DA:C6	5:E:32:DT:C4	3.09	0.41
6:C:78:PHE:HD1	6:C:81:CYS:HG	1.66	0.41
6:C:138:PHE:O	6:C:142:ARG:HG3	2.21	0.41
6:C:178:LEU:HD23	6:C:178:LEU:HA	1.87	0.41
6:C:445:SER:HG	6:C:1821:ASP:CG	2.23	0.41
6:C:450:SER:O	6:C:454:GLN:HG3	2.21	0.41
6:C:468:LEU:O	6:C:471:LYS:HB3	2.20	0.41
6:C:631:ARG:NH2	6:C:668:LYS:HD3	2.35	0.41
6:C:901:MET:HB2	6:C:2819:GLU:CD	2.41	0.41
6:C:1066:LEU:O	6:C:1075:ARG:NH2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:1134:LEU:O	6:C:1138:ILE:HD12	2.20	0.41
6:C:1170:LYS:HA	6:C:1267:TYR:CZ	2.55	0.41
6:C:1238:GLN:HE22	6:C:1297:PHE:HB3	1.85	0.41
6:C:1358:LEU:HD22	6:C:1361:LYS:CE	2.48	0.41
6:C:1386:ILE:O	6:C:1389:VAL:HG22	2.20	0.41
6:C:1572:LEU:HD21	6:C:1603:GLN:HE21	1.86	0.41
6:C:1632:TRP:CD1	6:C:1635:LYS:NZ	2.89	0.41
6:C:1638:PRO:C	6:C:1641:THR:H	2.24	0.41
6:C:1744:LYS:HD3	6:C:1883:ARG:NH2	2.33	0.41
6:C:1894:SER:HB2	6:C:1896:ILE:HG12	2.03	0.41
6:C:1916:ILE:HA	6:C:1919:CYS:HB2	2.03	0.41
6:C:2049:VAL:O	6:C:2052:TYR:HB2	2.21	0.41
6:C:2077:HIS:ND1	6:C:2138:VAL:HB	2.36	0.41
6:C:2094:MET:C	6:C:2098:THR:HG23	2.41	0.41
6:C:2132:LYS:HB3	6:C:2132:LYS:HE2	1.87	0.41
6:C:2148:LYS:HG2	6:C:2156:VAL:HG11	2.01	0.41
6:C:2156:VAL:HG23	6:C:2160:TYR:CE1	2.55	0.41
6:C:2239:LYS:HZ1	6:C:2275:GLN:HB3	1.86	0.41
6:C:2256:ILE:HG13	6:C:2259:LYS:HZ3	1.86	0.41
6:C:2368:THR:O	6:C:2371:PHE:HB3	2.21	0.41
6:C:2388:LYS:O	6:C:2391:GLY:N	2.54	0.41
6:C:2423:VAL:O	6:C:2426:HIS:N	2.25	0.41
6:C:2449:VAL:O	6:C:2450:GLU:C	2.58	0.41
6:C:2457:PRO:HA	6:C:2460:GLU:HB2	2.03	0.41
6:C:2817:LEU:HD13	6:C:2864:GLN:CD	2.41	0.41
6:C:2917:PRO:HB2	6:C:2918:PRO:CD	2.51	0.41
6:C:2931:ARG:HB3	6:C:2931:ARG:CZ	2.50	0.41
6:C:3004:HIS:CE1	6:C:3043:TYR:CD1	3.07	0.41
6:C:3141:PHE:HZ	6:C:3192:LYS:HB3	1.85	0.41
6:C:3166:ASN:CB	6:C:3186:ARG:HH12	2.32	0.41
6:C:3309:GLU:OE2	6:C:3318:LYS:HA	2.21	0.41
6:C:3357:ARG:HH11	6:C:3380:ARG:HH22	1.69	0.41
6:C:3390:GLN:O	6:C:3393:GLU:HB3	2.21	0.41
6:C:3487:ILE:HG21	6:C:3495:PHE:CB	2.51	0.41
6:C:3525:TYR:OH	6:C:3562:LEU:HD22	2.21	0.41
6:C:3630:ARG:HG2	6:C:3686:TRP:CZ3	2.56	0.41
6:C:3873:LYS:O	6:C:3877:LYS:HG2	2.21	0.41
6:C:3875:GLU:HG2	6:C:4127:TRP:O	2.21	0.41
6:C:4073:ALA:CB	6:C:4119:ARG:HH22	2.33	0.41
6:C:4100:GLU:O	6:C:4103:GLN:N	2.54	0.41
1:A:151:ALA:O	1:A:154:PHE:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:LYS:NZ	1:A:208:PRO:HA	2.36	0.41
1:A:354:VAL:HA	1:A:357:LYS:HZ3	1.86	0.41
1:A:388:LYS:O	1:A:391:GLU:HB2	2.21	0.41
1:A:404:ARG:HD2	5:E:36:DA:P	2.61	0.41
1:A:416:GLN:HA	1:A:433:GLN:NE2	2.34	0.41
1:A:454:ALA:HB2	2:B:375:VAL:O	2.21	0.41
1:A:529:VAL:HG23	1:A:530:TYR:HD2	1.84	0.41
2:B:223:GLU:HA	2:B:225:TYR:CE2	2.56	0.41
5:E:26:DC:O3'	5:E:27:DC:H6	2.04	0.41
5:E:46:DT:C2'	5:E:47:DT:H71	2.51	0.41
6:C:115:TYR:OH	6:C:177:LEU:HD11	2.21	0.41
6:C:139:ARG:HA	6:C:142:ARG:NE	2.34	0.41
6:C:161:ALA:C	6:C:163:LYS:H	2.24	0.41
6:C:203:GLU:C	6:C:206:THR:HG1	2.21	0.41
6:C:222:GLY:O	6:C:225:LYS:HB3	2.21	0.41
6:C:278:HIS:C	6:C:281:GLN:H	2.25	0.41
6:C:282:PHE:CD1	6:C:283:SER:N	2.89	0.41
6:C:326:MET:C	6:C:330:ASN:HD22	2.23	0.41
6:C:381:VAL:O	6:C:384:MET:HB2	2.21	0.41
6:C:530:LEU:H	6:C:530:LEU:HD12	1.86	0.41
6:C:750:PRO:HA	6:C:753:GLN:CB	2.44	0.41
6:C:913:ARG:CZ	6:C:929:ALA:O	2.69	0.41
6:C:1059:LEU:O	6:C:1062:ARG:HG2	2.21	0.41
6:C:1358:LEU:O	6:C:1361:LYS:HB3	2.20	0.41
6:C:1362:ASP:O	6:C:1365:ASN:ND2	2.54	0.41
6:C:1630:ASP:HA	6:C:1633:TRP:CZ3	2.55	0.41
6:C:2235:LEU:O	6:C:2235:LEU:HD12	2.21	0.41
6:C:2348:GLN:HG2	6:C:2352:HIS:HE1	1.80	0.41
6:C:2362:VAL:HG23	6:C:2363:CYS:N	2.36	0.41
6:C:2470:ARG:HB3	6:C:2474:TYR:CD2	2.56	0.41
6:C:2540:LEU:O	6:C:2543:ASN:ND2	2.40	0.41
6:C:3072:GLU:HA	6:C:3079:GLU:OE1	2.21	0.41
6:C:3307:LEU:HD11	6:C:3311:ASN:OD1	2.21	0.41
6:C:3610:TYR:HE2	6:C:3655:LYS:HE3	1.86	0.41
6:C:3747:GLU:N	6:C:3747:GLU:OE1	2.54	0.41
6:C:3793:VAL:HA	6:C:3803:ILE:HA	2.02	0.41
6:C:3875:GLU:HG2	6:C:4128:MET:HA	2.03	0.41
6:C:3876:SER:OG	6:C:3965:ARG:HG2	2.21	0.41
1:A:220:ILE:HD12	1:A:220:ILE:H	1.86	0.40
1:A:392:LYS:HB3	1:A:392:LYS:HE2	1.88	0.40
2:B:106:ASP:OD2	2:B:143:SER:OG	2.23	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:303:THR:HG1	2:B:304:GLU:H	1.68	0.40
2:B:406:GLY:HA2	2:B:423:GLN:OE1	2.20	0.40
2:B:505:LEU:HD21	2:B:508:ILE:HG23	2.03	0.40
2:B:524:THR:HA	2:B:527:GLN:CG	2.42	0.40
5:E:30:DA:C5	5:E:31:DA:C5	3.09	0.40
6:C:11:SER:O	6:C:15:LEU:CB	2.57	0.40
6:C:437:HIS:H	6:C:1812:LEU:HD22	1.87	0.40
6:C:482:VAL:O	6:C:485:GLN:N	2.54	0.40
6:C:555:SER:O	6:C:559:SER:OG	2.18	0.40
6:C:625:ASN:HB3	6:C:659:ARG:NH2	2.28	0.40
6:C:637:LYS:HG3	6:C:641:PHE:CD2	2.56	0.40
6:C:731:THR:O	6:C:734:LEU:CA	2.69	0.40
6:C:766:ALA:HB1	6:C:768:VAL:HG23	2.01	0.40
6:C:767:GLU:O	6:C:770:LEU:HB2	2.21	0.40
6:C:886:TRP:CE3	6:C:954:GLY:HA3	2.56	0.40
6:C:917:LEU:CD2	6:C:927:LYS:HZ2	2.34	0.40
6:C:944:LYS:NZ	6:C:2576:MET:SD	2.93	0.40
6:C:960:GLN:O	6:C:963:LYS:HB2	2.21	0.40
6:C:1154:PRO:O	6:C:1158:PRO:HD2	2.21	0.40
6:C:1875:LYS:HD2	6:C:1903:SER:CA	2.47	0.40
6:C:2073:ASP:O	6:C:2076:VAL:HG22	2.20	0.40
6:C:2108:LEU:HD21	6:C:2120:ARG:HD3	2.03	0.40
6:C:2206:PRO:C	6:C:2207:LYS:HD2	2.41	0.40
6:C:2240:THR:O	6:C:2241:LEU:C	2.59	0.40
6:C:2401:VAL:O	6:C:2405:VAL:HG22	2.21	0.40
6:C:2442:MET:HE1	6:C:2446:LEU:HD12	2.02	0.40
6:C:2484:TYR:CE1	6:C:2498:ILE:HG21	2.56	0.40
6:C:2569:SER:O	6:C:2573:PRO:HG3	2.21	0.40
6:C:2826:LEU:HA	6:C:2826:LEU:HD23	1.93	0.40
6:C:2901:LEU:O	6:C:2903:ALA:N	2.54	0.40
6:C:2915:ARG:HB3	6:C:2938:VAL:HG21	2.03	0.40
6:C:3052:LEU:HG	6:C:3092:LEU:CD1	2.51	0.40
6:C:3066:ASP:O	6:C:3069:MET:HB2	2.21	0.40
6:C:3084:GLN:HB3	6:C:3087:SER:HB2	2.02	0.40
6:C:3106:GLY:C	6:C:3109:SER:HB3	2.42	0.40
6:C:3410:ILE:O	6:C:3414:MET:HB2	2.21	0.40
6:C:3459:ASN:HB3	6:C:3462:ARG:NE	2.35	0.40
6:C:3687:MET:O	6:C:3689:ASP:O	2.40	0.40
6:C:4058:VAL:HG12	6:C:4061:CYS:HB2	2.03	0.40
1:A:49:PHE:CE1	1:A:137:HIS:CD2	3.09	0.40
1:A:254:ARG:CZ	4:D:0:DT:O3'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:317:LYS:HD2	1:A:328:ILE:CG1	2.48	0.40
1:A:351:LYS:H	1:A:395:ALA:H	1.67	0.40
1:A:506:LEU:HD23	1:A:506:LEU:HA	1.89	0.40
2:B:270:GLU:CG	2:B:271:ARG:N	2.84	0.40
2:B:310:ILE:HG13	2:B:311:ILE:O	2.22	0.40
2:B:327:ASP:HA	2:B:330:GLN:HE21	1.86	0.40
3:K:12:ALA:O	3:K:15:ALA:HB3	2.21	0.40
4:D:-5:DT:H2'	4:D:-4:DA:O4'	2.21	0.40
4:D:4:DA:C2	5:E:33:DA:N3	2.89	0.40
4:D:6:DT:C4	4:D:7:DA:N6	2.89	0.40
4:D:11:DC:H2'	4:D:12:DC:C6	2.57	0.40
5:E:20:DT:H6	5:E:20:DT:H2'	1.64	0.40
6:C:62:ASP:HA	6:C:65:LEU:HD12	2.03	0.40
6:C:73:LEU:HB3	6:C:78:PHE:HD2	1.86	0.40
6:C:204:LEU:CD1	6:C:223:CYS:HB2	2.51	0.40
6:C:393:LYS:HZ1	6:C:1869:LYS:CE	2.34	0.40
6:C:481:THR:OG1	6:C:555:SER:HB3	2.22	0.40
6:C:575:ILE:HG13	6:C:578:LYS:CE	2.52	0.40
6:C:585:ILE:C	6:C:587:THR:H	2.24	0.40
6:C:657:SER:O	6:C:660:LEU:N	2.54	0.40
6:C:701:TYR:CD1	6:C:704:PHE:HE2	2.39	0.40
6:C:789:TYR:HA	6:C:792:ILE:CB	2.48	0.40
6:C:799:TYR:C	6:C:801:LYS:N	2.74	0.40
6:C:928:VAL:O	6:C:929:ALA:C	2.60	0.40
6:C:985:GLU:HB2	6:C:986:PRO:HD3	2.04	0.40
6:C:1010:LEU:O	6:C:1013:ILE:HB	2.21	0.40
6:C:1132:ASP:O	6:C:1171:TRP:CZ2	2.74	0.40
6:C:1163:LEU:HA	6:C:1256:TRP:CG	2.56	0.40
6:C:1752:LEU:HD22	6:C:1757:MET:SD	2.61	0.40
6:C:1876:ILE:HA	6:C:1907:GLU:HG3	2.02	0.40
6:C:2097:LEU:C	6:C:2100:LEU:HB3	2.41	0.40
6:C:2104:MET:O	6:C:2107:SER:HB2	2.21	0.40
6:C:2282:ALA:HB2	6:C:2321:GLU:OE2	2.21	0.40
6:C:2313:LYS:H	6:C:2313:LYS:HG2	1.58	0.40
6:C:2326:ILE:HG21	6:C:2326:ILE:HD13	1.73	0.40
6:C:2387:PRO:HD3	6:C:2404:ARG:NH1	2.35	0.40
6:C:2397:CYS:HB3	6:C:2432:GLN:HE22	1.87	0.40
6:C:2446:LEU:CB	6:C:2451:LEU:HD12	2.49	0.40
6:C:2482:ASP:HA	6:C:2485:ARG:HH21	1.86	0.40
6:C:2814:SER:O	6:C:2818:LYS:HB3	2.22	0.40
6:C:2962:ARG:HH21	6:C:3254:LEU:CG	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:3143:SER:O	6:C:3146:SER:HB2	2.22	0.40
6:C:3256:MET:HG3	6:C:3260:LYS:NZ	2.36	0.40
6:C:3280:TYR:HD2	6:C:3324:ARG:HD2	1.85	0.40
6:C:3301:LEU:HD12	6:C:3304:VAL:HB	2.03	0.40
6:C:4021:LEU:HB2	6:C:4031:ILE:HD13	2.03	0.40
1:A:317:LYS:HG3	1:A:330:GLU:OE1	2.21	0.40
1:A:317:LYS:HD3	1:A:329:LEU:CA	2.51	0.40
1:A:358:LYS:O	2:B:411:HIS:CE1	2.75	0.40
1:A:376:ILE:HD12	2:B:444:TYR:CE1	2.56	0.40
1:A:379:SER:OG	1:A:380:THR:N	2.54	0.40
2:B:225:TYR:HE1	2:B:233:LYS:HE3	1.86	0.40
2:B:228:SER:OG	2:B:232:ARG:NH2	2.54	0.40
2:B:407:VAL:H	2:B:424:LEU:H	1.69	0.40
5:E:38:DA:C4	5:E:39:DA:C2	3.10	0.40
6:C:15:LEU:CB	6:C:38:LEU:HD11	2.51	0.40
6:C:172:GLU:HG3	6:C:173:LYS:N	2.37	0.40
6:C:265:TYR:CZ	6:C:304:THR:HG21	2.57	0.40
6:C:473:PRO:HA	6:C:476:ARG:CZ	2.52	0.40
6:C:1082:PHE:CE1	6:C:1086:TYR:HE2	2.39	0.40
6:C:1468:LEU:HD23	6:C:1471:GLN:OE1	2.21	0.40
6:C:1938:ARG:HB3	6:C:1990:PHE:CD1	2.56	0.40
6:C:1958:GLU:OE1	6:C:1961:PHE:HB3	2.22	0.40
6:C:2214:ARG:HA	6:C:2217:ASN:ND2	2.35	0.40
6:C:2345:VAL:HA	6:C:2348:GLN:OE1	2.21	0.40
6:C:2512:ASP:CB	6:C:2518:GLN:HB2	2.52	0.40
6:C:2806:LYS:C	6:C:2808:LEU:N	2.74	0.40
6:C:2823:PHE:HD2	6:C:2829:LYS:NZ	2.20	0.40
6:C:3044:MET:HA	6:C:3047:SER:CB	2.51	0.40
6:C:3326:GLN:HE22	6:C:3393:GLU:HB2	1.86	0.40
6:C:3329:LEU:O	6:C:3333:THR:CB	2.70	0.40
6:C:3464:LYS:HA	6:C:3467:ARG:NH2	2.36	0.40
6:C:3630:ARG:HG2	6:C:3686:TRP:CH2	2.56	0.40
6:C:3720:ALA:HB2	6:C:3743:HIS:HB2	2.02	0.40
6:C:3723:ASP:HB2	6:C:3739:ILE:HG21	2.04	0.40
6:C:3779:SER:O	6:C:3782:SER:N	2.54	0.40
6:C:3863:ASN:HA	6:C:3866:GLU:CG	2.51	0.40
1:A:35:ARG:HG3	1:A:80:ARG:CZ	2.51	0.40
1:A:144:SER:HB3	1:A:189:LYS:HB3	2.03	0.40
1:A:355:LEU:HD23	1:A:355:LEU:O	2.22	0.40
1:A:451:LYS:HE2	1:A:453:MET:SD	2.61	0.40
1:A:471:PHE:CE1	1:A:473:TYR:HD1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:247:TRP:CZ2	2:B:398:ASP:HB2	2.57	0.40
2:B:315:ARG:HA	2:B:319:ASP:O	2.21	0.40
2:B:491:PHE:CD1	2:B:494:LEU:HD12	2.52	0.40
6:C:207:GLN:HG3	6:C:215:PRO:CB	2.52	0.40
6:C:530:LEU:HD12	6:C:530:LEU:N	2.37	0.40
6:C:576:VAL:HG11	6:C:600:VAL:HB	2.03	0.40
6:C:660:LEU:N	6:C:661:PRO:HD2	2.37	0.40
6:C:745:VAL:HA	6:C:748:TYR:CE2	2.57	0.40
6:C:785:MET:HG2	6:C:789:TYR:H	1.86	0.40
6:C:937:MET:HB3	6:C:962:TYR:OH	2.21	0.40
6:C:1034:ARG:HH12	6:C:1038:LYS:CB	2.33	0.40
6:C:1694:THR:C	6:C:1697:PRO:HD2	2.42	0.40
6:C:1871:MET:O	6:C:1875:LYS:HB3	2.20	0.40
6:C:1910:GLU:O	6:C:1912:THR:HG23	2.20	0.40
6:C:1937:ARG:O	6:C:1941:HIS:HB2	2.21	0.40
6:C:2040:MET:HA	6:C:2043:PHE:CE2	2.56	0.40
6:C:2050:GLN:CG	6:C:2051:SER:N	2.85	0.40
6:C:2159:PRO:HA	6:C:2162:LYS:HB2	2.04	0.40
6:C:2467:THR:HA	6:C:2470:ARG:HG2	2.03	0.40
6:C:2473:MET:O	6:C:2477:LEU:HG	2.22	0.40
6:C:2840:PHE:O	6:C:2844:LEU:HG	2.21	0.40
6:C:2853:PRO:HA	6:C:2856:SER:OG	2.21	0.40
6:C:2990:GLU:HA	6:C:2993:PHE:CD2	2.56	0.40
6:C:3048:LYS:HA	6:C:3051:LEU:HD12	2.03	0.40
6:C:3095:ASP:HB3	6:C:3098:ARG:NH1	2.36	0.40
6:C:3416:LEU:HD12	6:C:3419:PHE:HB3	2.03	0.40
6:C:3500:SER:C	6:C:3759:ARG:HH11	2.09	0.40
6:C:3534:ILE:CG2	6:C:3796:MET:HA	2.51	0.40
6:C:3632:PHE:CE2	6:C:3683:CYS:HB3	2.57	0.40
6:C:3887:PHE:HA	6:C:3890:MET:HE2	2.03	0.40
1:A:85:VAL:O	1:A:86:VAL:HG23	2.21	0.40
1:A:121:GLN:HB3	1:A:122:PHE:CD1	2.56	0.40
1:A:153:LEU:HA	1:A:156:ASP:OD1	2.22	0.40
1:A:499:GLU:OE2	1:A:502:GLN:HB2	2.21	0.40
1:A:515:ASN:HD22	2:B:256:ASN:ND2	2.19	0.40
2:B:113:VAL:O	2:B:117:VAL:HG23	2.22	0.40
2:B:132:ILE:H	2:B:159:ILE:HG23	1.86	0.40
2:B:151:ILE:HG21	2:B:214:SER:HB3	2.02	0.40
2:B:395:TYR:OH	2:B:397:TYR:HD1	2.03	0.40
4:D:6:DT:N3	4:D:7:DA:C5	2.89	0.40
5:E:17:DA:H8	5:E:18:DG:C5	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:218:PRO:HG3	6:C:263:LYS:NZ	2.37	0.40
6:C:397:LEU:HA	6:C:1817:GLN:CD	2.41	0.40
6:C:473:PRO:O	6:C:476:ARG:NH1	2.54	0.40
6:C:743:LEU:HD23	6:C:783:HIS:CE1	2.56	0.40
6:C:858:MET:O	6:C:861:SER:OG	2.19	0.40
6:C:886:TRP:CH2	6:C:950:GLU:HG2	2.56	0.40
6:C:1069:HIS:HB3	6:C:3741:ARG:NE	2.14	0.40
6:C:1154:PRO:HA	6:C:1157:PHE:CG	2.56	0.40
6:C:1514:LEU:HD23	6:C:1514:LEU:HA	1.80	0.40
6:C:1657:SER:HG	6:C:1658:SER:N	2.19	0.40
6:C:2281:MET:C	6:C:2283:ASN:N	2.75	0.40
6:C:2396:LEU:O	6:C:2400:VAL:CB	2.56	0.40
6:C:2415:LEU:O	6:C:2418:LYS:HB2	2.22	0.40
6:C:2795:GLN:HB2	6:C:2796:ALA:H	1.75	0.40
6:C:2928:LYS:HD2	6:C:2928:LYS:HA	1.88	0.40
6:C:3041:LEU:N	6:C:3042:PRO:HD2	2.36	0.40
6:C:3173:MET:HG3	6:C:3175:PRO:HD2	2.03	0.40
6:C:3231:ILE:HD12	6:C:3231:ILE:HA	1.78	0.40
6:C:3243:ILE:O	6:C:3278:GLN:NE2	2.55	0.40
6:C:3447:VAL:O	6:C:3450:MET:HE3	2.21	0.40
6:C:3595:GLU:HA	6:C:3598:LYS:HZ3	1.86	0.40
6:C:3718:ARG:HD2	6:C:3743:HIS:CE1	2.57	0.40
6:C:3741:ARG:HA	6:C:3741:ARG:HD2	1.91	0.40
6:C:3774:ILE:O	6:C:3777:GLN:N	2.55	0.40
6:C:3930:VAL:N	6:C:3937:VAL:HG12	2.36	0.40
6:C:3962:ARG:NH1	6:C:4124:TRP:CD2	2.90	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	489/501 (98%)	411 (84%)	74 (15%)	4 (1%)	19	60
2	B	522/536 (97%)	444 (85%)	71 (14%)	7 (1%)	12	48
3	K	13/15 (87%)	12 (92%)	1 (8%)	0	100	100
6	C	3608/4119 (88%)	2742 (76%)	764 (21%)	102 (3%)	5	30
All	All	4632/5171 (90%)	3609 (78%)	910 (20%)	113 (2%)	9	33

All (113) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	368	ARG
6	C	430	VAL
6	C	473	PRO
6	C	905	ILE
6	C	1977	ILE
6	C	2400	VAL
6	C	3486	GLU
6	C	3690	PHE
1	A	406	ILE
6	C	76	ILE
6	C	442	GLN
6	C	1059	LEU
6	C	1116	ALA
6	C	1136	ARG
6	C	2145	PHE
6	C	2398	LEU
6	C	2795	GLN
6	C	4028	ILE
1	A	132	GLN
1	A	243	LEU
2	B	119	GLN
6	C	269	SER
6	C	300	TRP
6	C	416	SER
6	C	546	ALA
6	C	625	ASN
6	C	656	GLN
6	C	971	ARG
6	C	1076	LEU
6	C	1124	ILE
6	C	1172	LEU
6	C	1576	ASP
6	C	1995	GLU

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Mol	Chain	Res	Type
6	C	2316	TYR
6	C	2471	GLU
6	C	2891	ARG
6	C	3061	LEU
6	C	4005	PHE
6	C	130	LEU
6	C	332	GLU
6	C	619	ASP
6	C	638	GLN
6	C	892	LEU
6	C	949	PRO
6	C	960	GLN
6	C	965	THR
6	C	1011	GLU
6	C	1028	PHE
6	C	1091	GLU
6	C	1442	GLN
6	C	1584	GLN
6	C	1703	THR
6	C	1863	PHE
6	C	1873	TYR
6	C	2047	THR
6	C	2100	LEU
6	C	2360	PHE
6	C	2540	LEU
6	C	2559	THR
6	C	2937	ASP
6	C	2993	PHE
6	C	3131	SER
6	C	3133	GLN
6	C	3135	LEU
6	C	3182	ILE
6	C	3415	THR
6	C	3420	CYS
6	C	3501	HIS
6	C	3573	ASN
6	C	3814	ASP
6	C	3907	SER
6	C	3997	LEU
6	C	4003	ASP
2	B	166	PRO
6	C	50	VAL

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Mol	Chain	Res	Type
6	C	85	ILE
6	C	553	VAL
6	C	615	ALA
6	C	726	LEU
6	C	994	TRP
6	C	1111	LEU
6	C	2322	VAL
6	C	2998	SER
6	C	3142	ILE
6	C	3345	PRO
6	C	3468	LEU
6	C	3909	ALA
6	C	4076	ASP
2	B	279	VAL
6	C	69	VAL
6	C	635	PRO
6	C	1982	ILE
6	C	3911	ILE
2	B	294	VAL
2	B	512	ILE
6	C	784	VAL
6	C	853	ILE
6	C	2280	VAL
6	C	2520	ILE
6	C	2570	PRO
6	C	1045	THR
6	C	2137	ILE
6	C	2444	PRO
6	C	3077	ILE
1	A	402	PRO
6	C	1105	VAL
6	C	2498	ILE
6	C	2902	PRO
6	C	3692	VAL
2	B	533	ILE
6	C	768	VAL
6	C	3297	VAL
6	C	3677	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	448/455 (98%)	447 (100%)	1 (0%)	93	96
2	B	474/481 (98%)	473 (100%)	1 (0%)	93	96
6	C	3238/3667 (88%)	3217 (99%)	21 (1%)	86	92
All	All	4160/4603 (90%)	4137 (99%)	23 (1%)	86	92

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	394	VAL
2	B	540	ILE
6	C	241	ASP
6	C	260	ILE
6	C	361	ILE
6	C	737	PRO
6	C	1491	ILE
6	C	2156	VAL
6	C	2203	THR
6	C	2330	VAL
6	C	2419	ASP
6	C	2476	ILE
6	C	2480	ILE
6	C	2507	ILE
6	C	2785	ILE
6	C	2809	PHE
6	C	2816	ILE
6	C	3019	ILE
6	C	3045	ILE
6	C	3120	LEU
6	C	3529	ILE
6	C	3719	ILE
6	C	4028	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (106) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	106	GLN
1	A	110	ASN
1	A	121	GLN
1	A	128	GLN
1	A	163	HIS
1	A	359	HIS
1	A	405	ASN
1	A	426	GLN
1	A	484	GLN
1	A	515	ASN
2	B	45	GLN
2	B	104	GLN
2	B	131	HIS
2	B	162	GLN
2	B	200	GLN
2	B	243	HIS
2	B	256	ASN
2	B	330	GLN
2	B	496	HIS
2	B	527	GLN
6	C	74	ASN
6	C	98	GLN
6	C	136	GLN
6	C	207	GLN
6	C	303	HIS
6	C	322	GLN
6	C	334	HIS
6	C	344	GLN
6	C	356	ASN
6	C	394	GLN
6	C	415	GLN
6	C	454	GLN
6	C	562	HIS
6	C	613	HIS
6	C	753	GLN
6	C	783	HIS
6	C	867	ASN
6	C	993	HIS
6	C	998	ASN
6	C	1047	GLN
6	C	1069	HIS
6	C	1115	HIS
6	C	1146	ASN

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Mol	Chain	Res	Type
6	C	1231	GLN
6	C	1268	ASN
6	C	1280	GLN
6	C	1325	GLN
6	C	1374	GLN
6	C	1385	ASN
6	C	1426	GLN
6	C	1435	ASN
6	C	1457	GLN
6	C	1459	HIS
6	C	1552	HIS
6	C	1555	HIS
6	C	1574	ASN
6	C	1654	GLN
6	C	1738	ASN
6	C	1817	GLN
6	C	1866	GLN
6	C	1897	ASN
6	C	1901	HIS
6	C	1931	ASN
6	C	1957	ASN
6	C	1974	ASN
6	C	1980	ASN
6	C	2016	ASN
6	C	2042	GLN
6	C	2050	GLN
6	C	2089	ASN
6	C	2135	ASN
6	C	2163	HIS
6	C	2183	HIS
6	C	2234	ASN
6	C	2266	ASN
6	C	2295	GLN
6	C	2432	GLN
6	C	2472	GLN
6	C	2475	ASN
6	C	2481	HIS
6	C	2534	ASN
6	C	2834	GLN
6	C	2886	GLN
6	C	3003	ASN
6	C	3059	GLN

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Mol	Chain	Res	Type
6	C	3070	HIS
6	C	3112	GLN
6	C	3148	GLN
6	C	3177	ASN
6	C	3278	GLN
6	C	3296	GLN
6	C	3310	ASN
6	C	3319	ASN
6	C	3501	HIS
6	C	3643	HIS
6	C	3660	ASN
6	C	3664	ASN
6	C	3679	ASN
6	C	3697	ASN
6	C	3704	GLN
6	C	3783	GLN
6	C	3822	GLN
6	C	3850	HIS
6	C	3927	ASN
6	C	3944	HIS
6	C	3951	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6803. These allow visual inspection of the internal detail of the map and identification of artifacts.

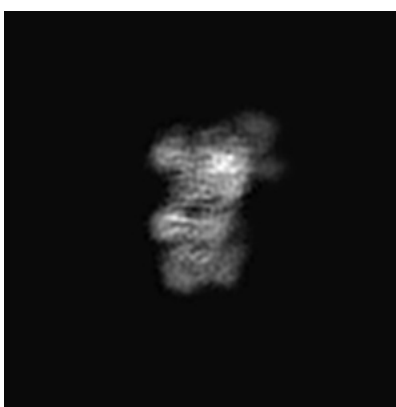
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

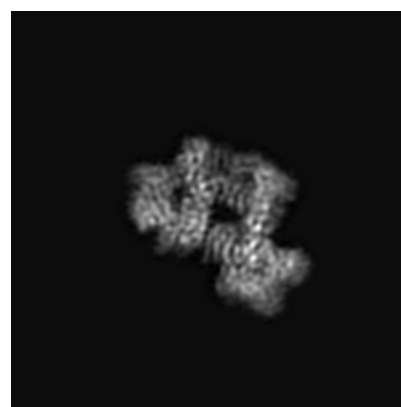
6.1.1 Primary map



X



Y

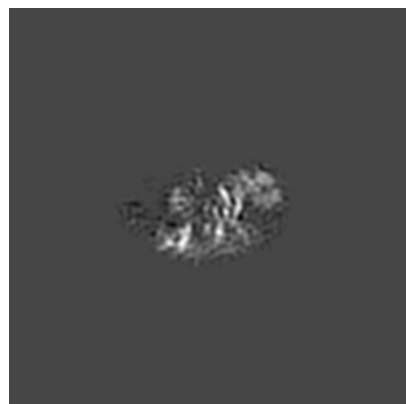


Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 150



Y Index: 150



Z Index: 150

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

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 181



Y Index: 136

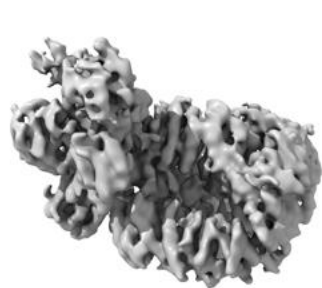


Z Index: 159

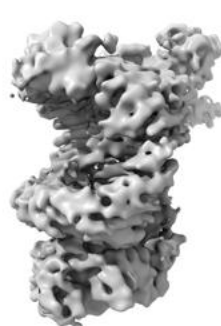
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

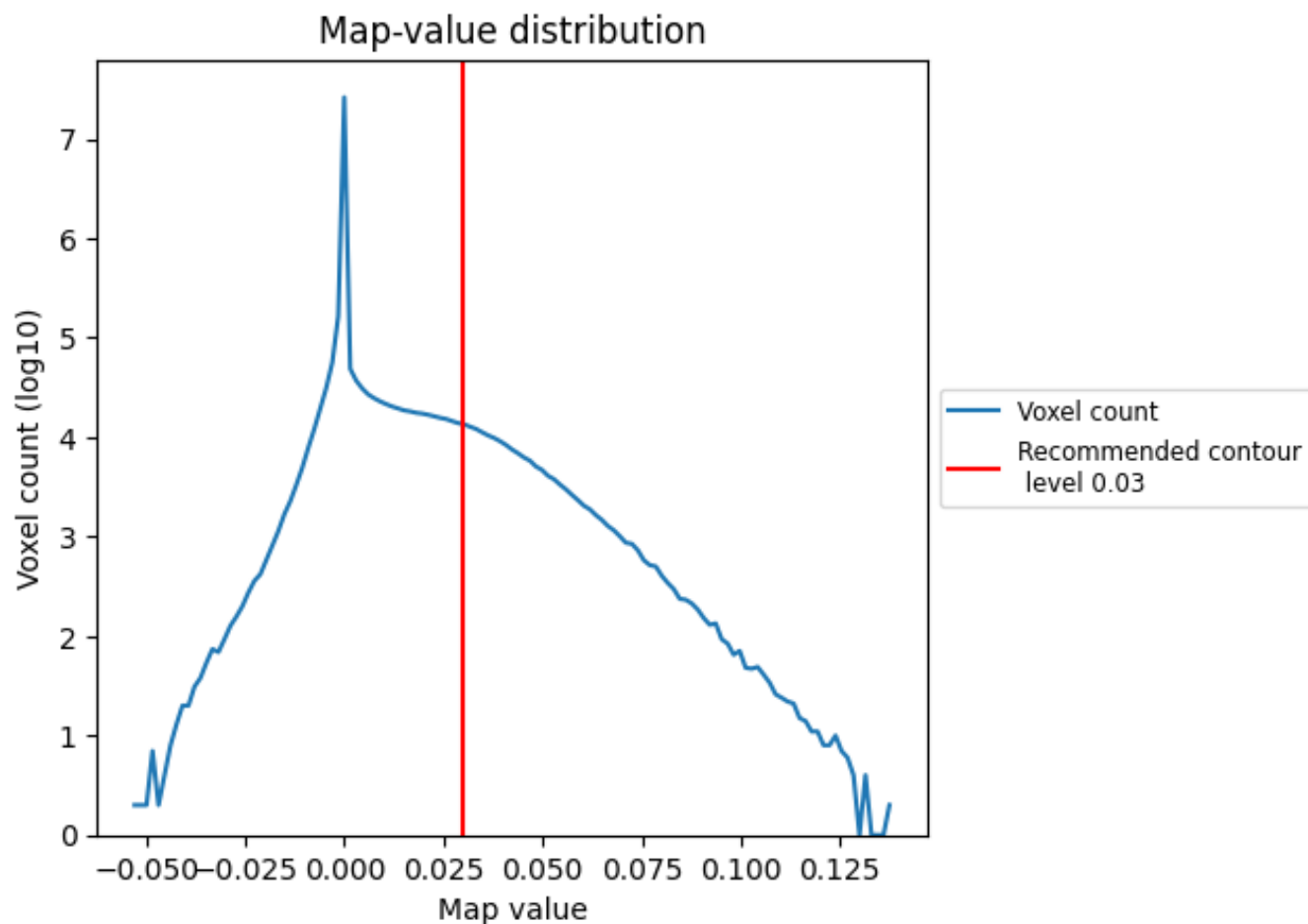
6.5 Mask visualisation

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

7 Map analysis [i](#)

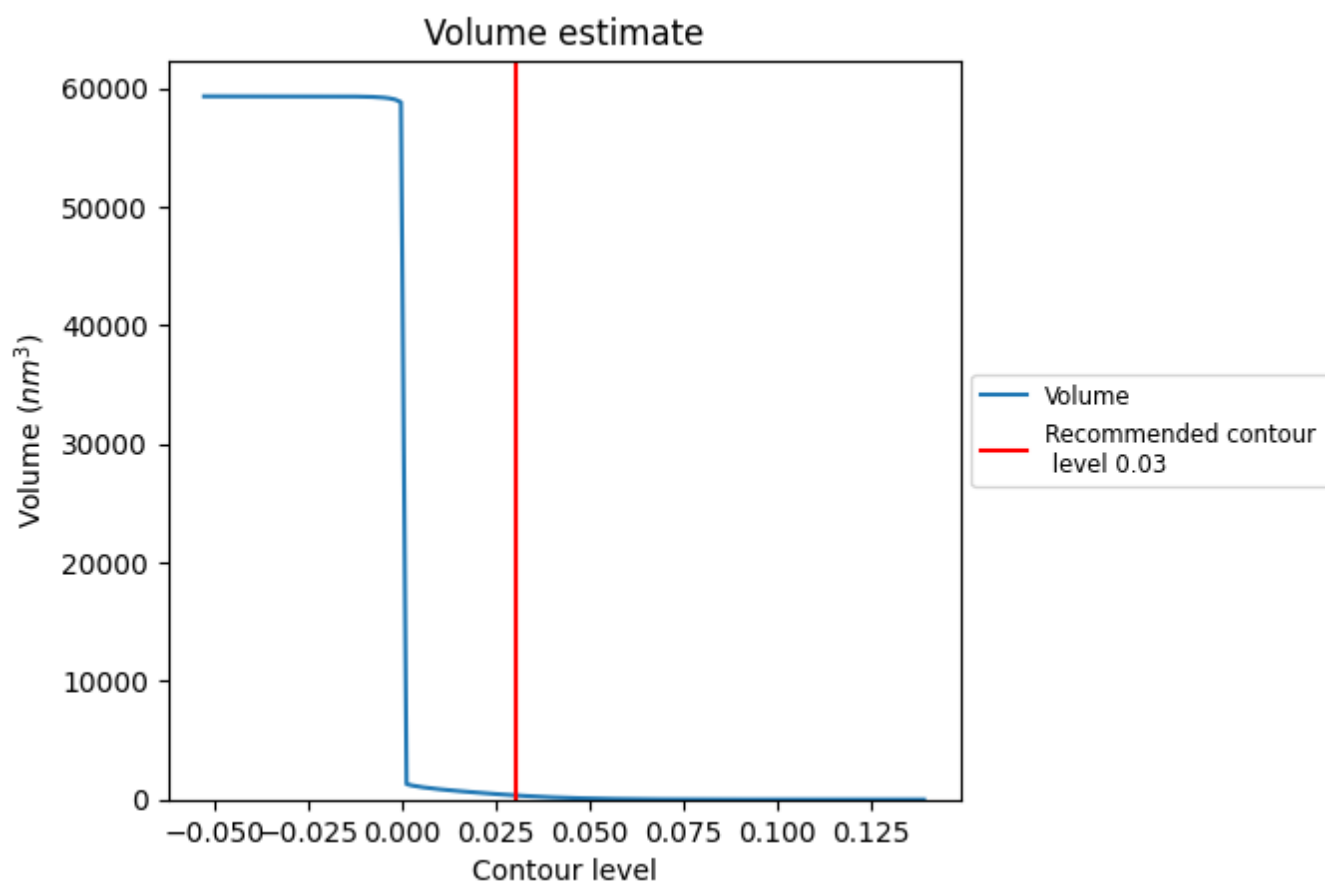
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

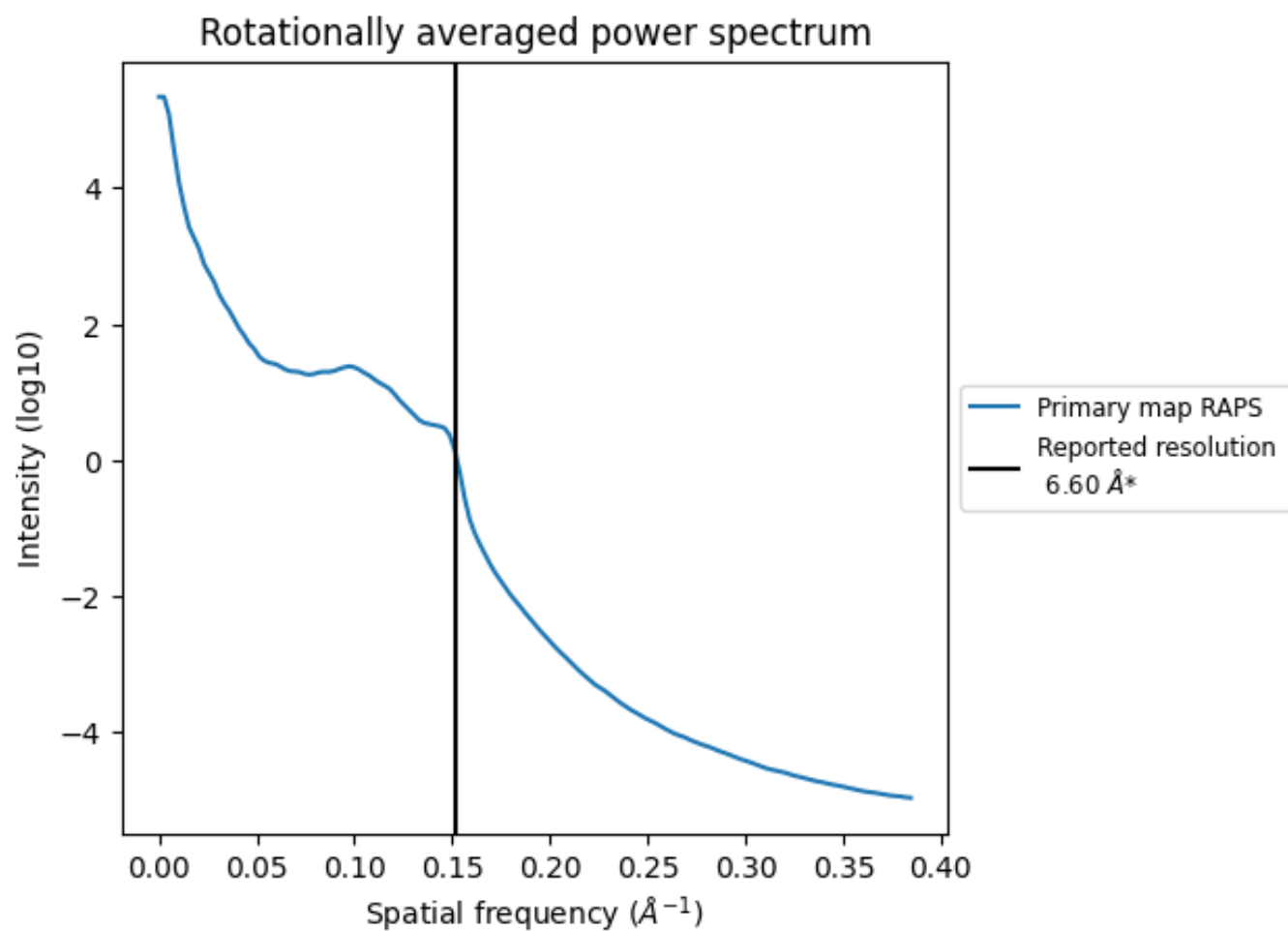
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 356 nm^3 ; this corresponds to an approximate mass of 322 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

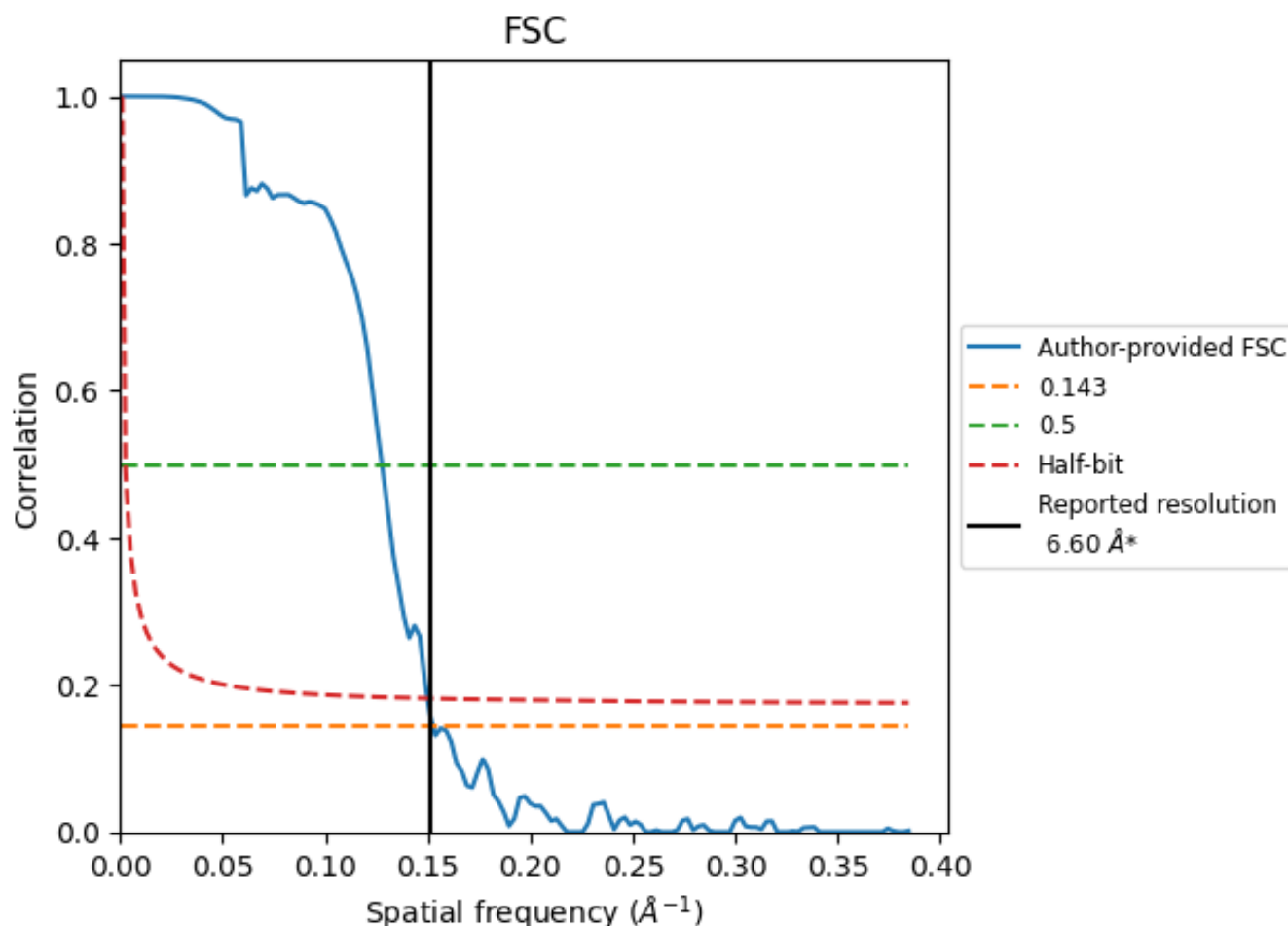


*Reported resolution corresponds to spatial frequency of 0.152 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.152 Å⁻¹

8.2 Resolution estimates [i](#)

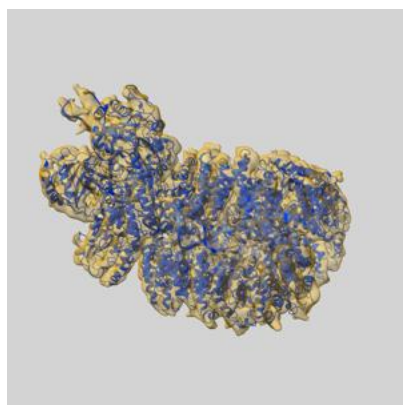
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.60	-	-
Author-provided FSC curve	6.55	7.82	6.67
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

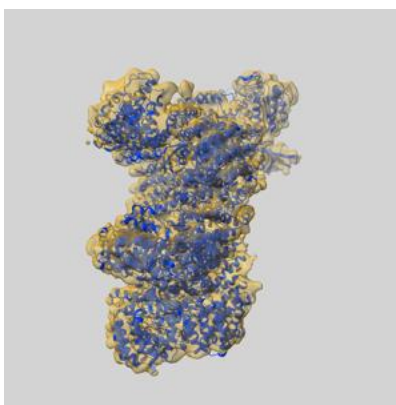
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-6803 and PDB model 5Y3R. Per-residue inclusion information can be found in [section 3](#) on [page 4](#).

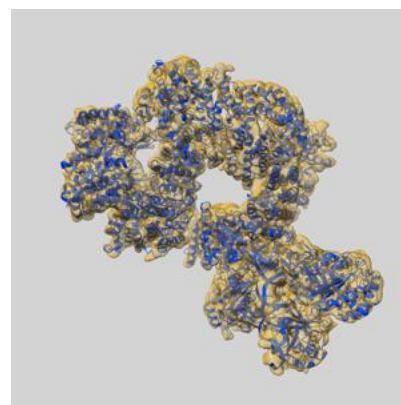
9.1 Map-model overlay [i](#)



X



Y



Z

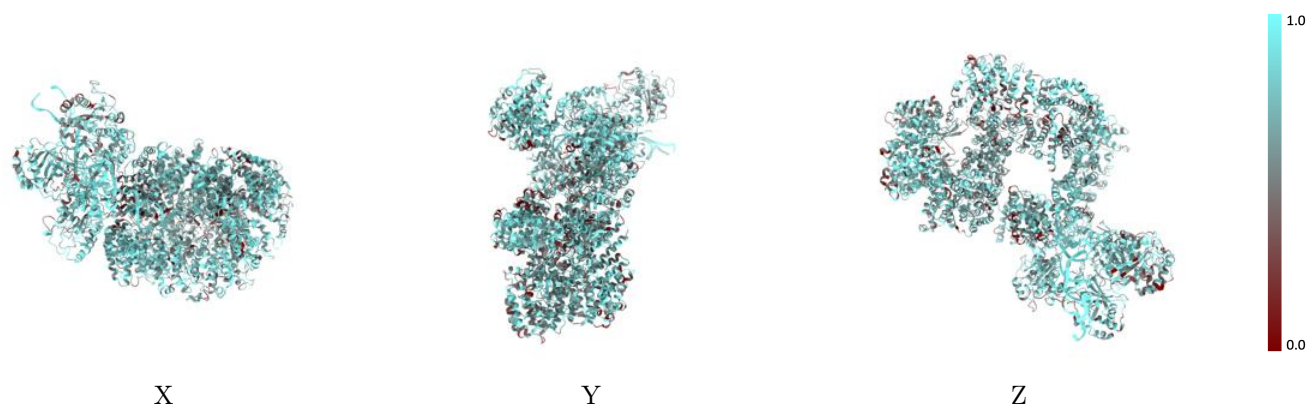
The images above show the 3D surface view of the map at the recommended contour level 0.03 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



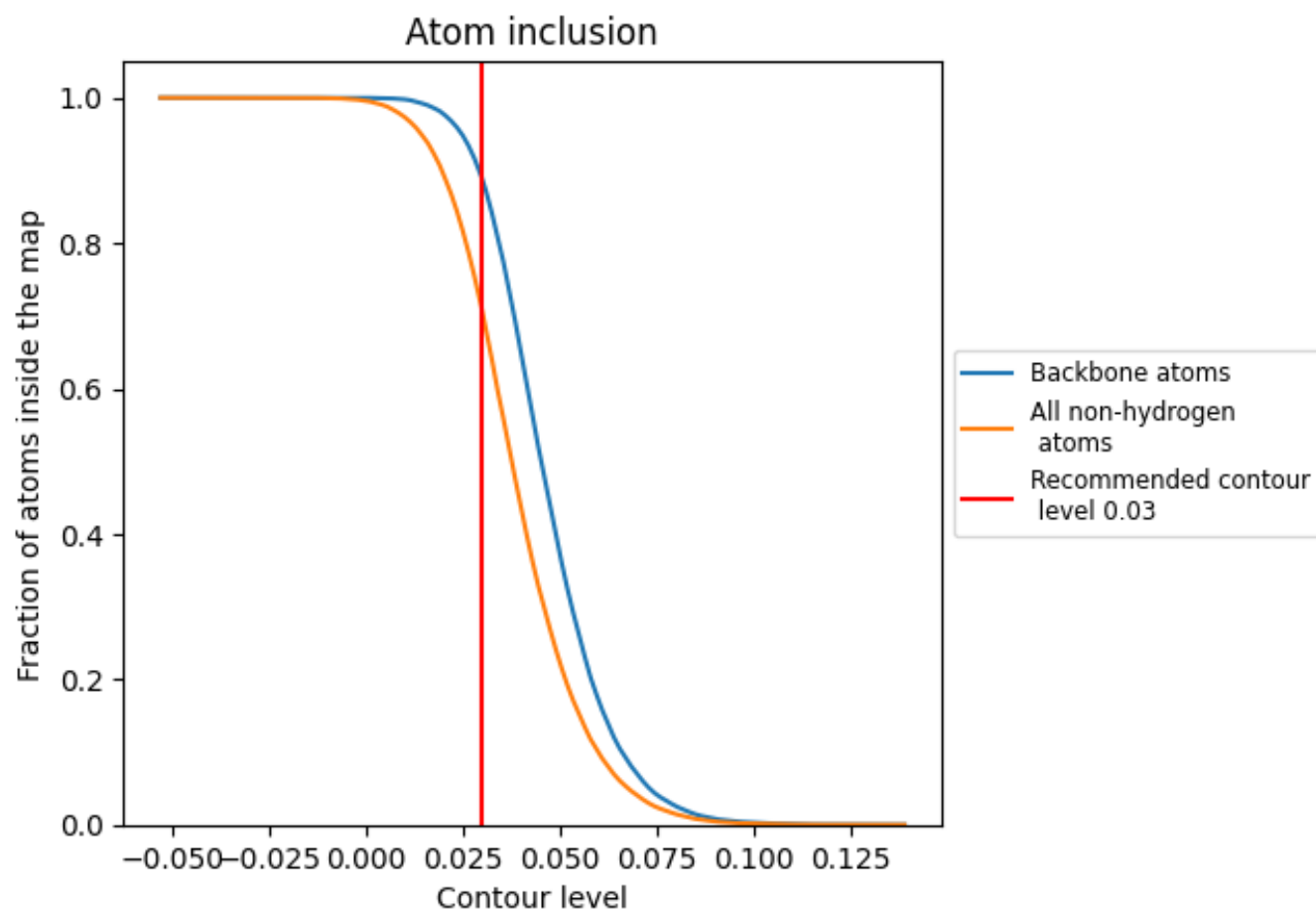
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.03).

9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 71% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.7083	<div></div> 0.2170
A	<div></div> 0.7481	<div></div> 0.2360
B	<div></div> 0.7072	<div></div> 0.2250
C	<div></div> 0.6939	<div></div> 0.2110
D	<div></div> 0.9200	<div></div> 0.2680
E	<div></div> 0.8909	<div></div> 0.2590
K	<div></div> 0.4400	<div></div> 0.2940

1.0

0.0

<0.0