Full wwPDB EM Validation Report ⓘ

Dec 17, 2022 – 06:45 pm GMT

PDB ID	:	6ZHE
EMDB ID	:	EMD-11219
Title	:	Cryo-EM structure of DNA-PK dimer
Authors	:	Chaplin, A.K.; Hardwick, S.W.; Chirgadze, D.Y.; Blundell, T.L.
Deposited on	:	2020-06-23
Resolution	:	7.24 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:

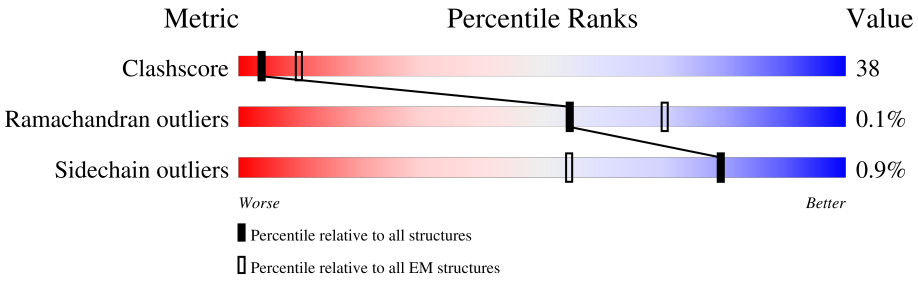
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 7.24 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 <=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	4156	35% 55% • 9%
1	F	4156	35% 55% • 10%
2	B	609	31% 49% • 20%
2	G	609	35% 44% • 20%
3	C	732	• 44% 52% •
3	H	732	• 44% 52% •
4	J	25	20% 80%
5	I	27	26% 74%

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Mol	Chain	Length	Quality of chain
6	D	26	8% 92%
7	E	28	18% 82%

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 78785 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-dependent protein kinase catalytic subunit,DNA-PKcs.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	3768	Total 29018	C 18632	N 4914	O 5293	S 179	0	0
1	F	3731	Total 29012	C 18636	N 4896	O 5295	S 185	0	0

- Molecule 2 is a protein called X-ray repair cross-complementing protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	489	Total 3789	C 2430	N 640	O 704	S 15	0	0
2	G	489	Total 3797	C 2434	N 640	O 708	S 15	0	0

- Molecule 3 is a protein called X-ray repair cross-complementing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	705	Total 5490	C 3502	N 927	O 1037	S 24	0	0
3	H	700	Total 5517	C 3522	N 929	O 1041	S 25	0	0

- Molecule 4 is a DNA chain called DNA (25-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
4	J	25	Total 509	C 244	N 86	O 154	P 25	0	0

- Molecule 5 is a DNA chain called DNA (27-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	I	27	Total 552	C 265	N 102	O 158	P 27	0	0

- Molecule 6 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	D	26	Total	C	N	O	P	0	0
			528	253	89	160	26		

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

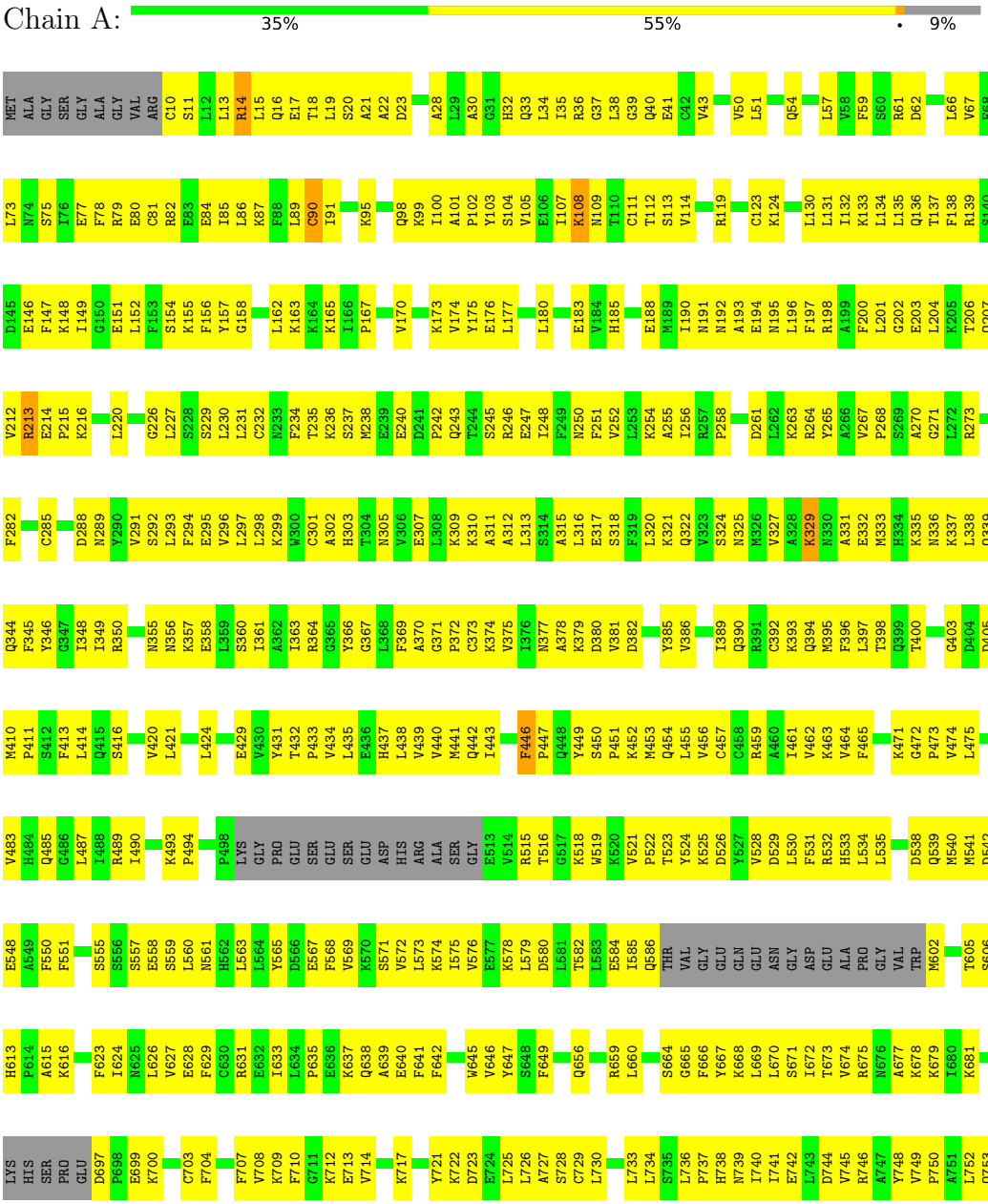
Mol	Chain	Residues	Atoms					AltConf	Trace
7	E	28	Total	C	N	O	P	0	0
			573	275	107	163	28		

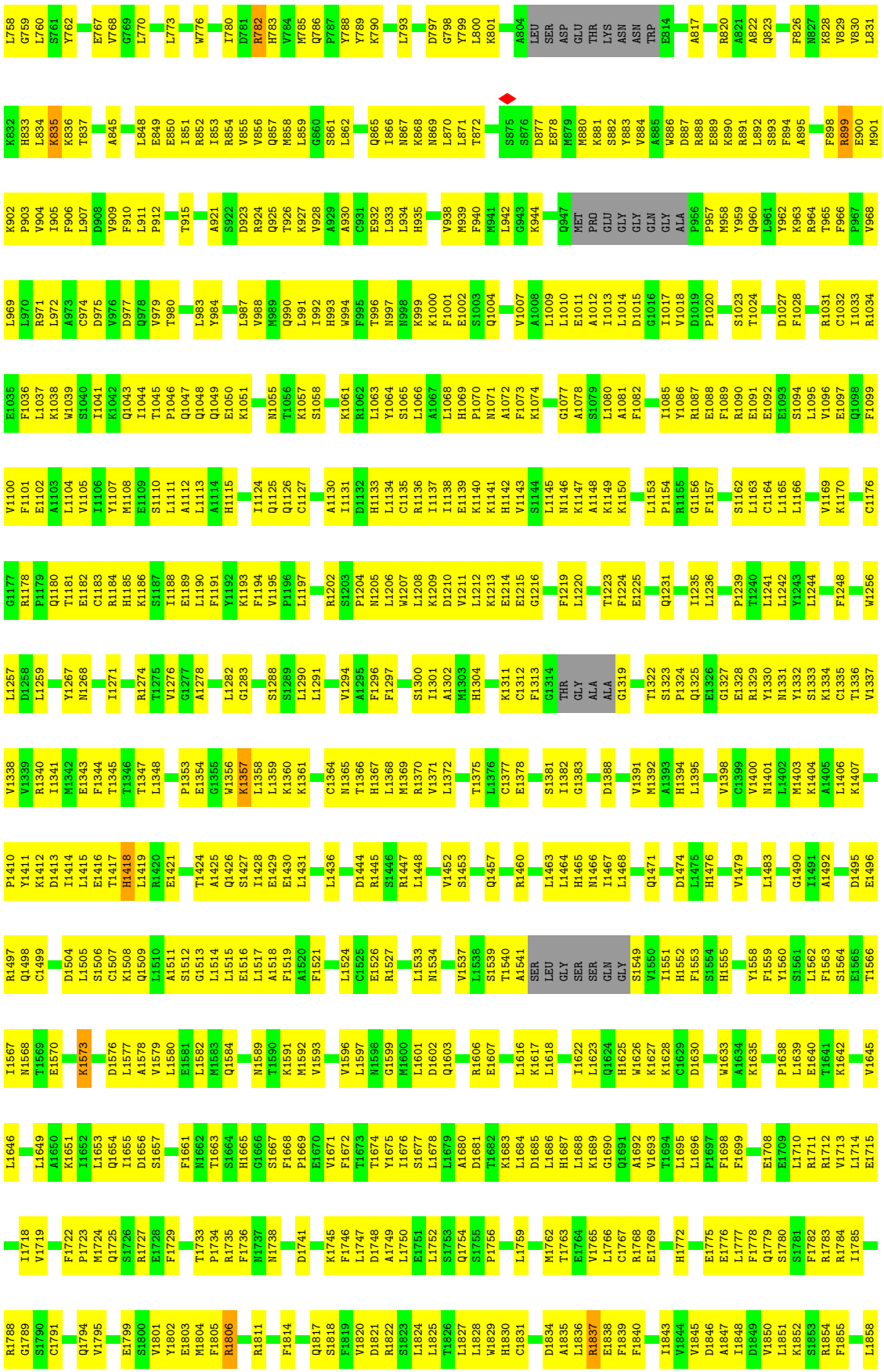
3 Residue-property plots (i)

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

- Molecule 1: DNA-dependent protein kinase catalytic subunit,DNA-PKcs

Chain A:

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K832 H833 L834 K835 K836 T837 A845 L848 E849 E850 I851 R852 I853 R854 V855 V856 Q857 M858 L859 G860 S861 L862 Q865 I866 N867 K868 N869 L870 L871 T872 S875 S876 D877 E878 M879 M880 K881 S882 Y883 V884 A885 W886 D887 R888 E889 K890 R891 L892 S893 F894 A895 F898 R899 E900 M901
K902 P903 V904 I905 F906 L907 D908 V909 F910 L911 P912 T915 A921 S922 D923 R924 Q925 T926 K927 V928 A929 A930 C931 E932 L933 L934 H935 V938 M939 F940 M941 L942 G943 K944 Q947 MET PRO GLU GLY GLY GLN GLY P956 P957 M958 Y959 Q960 L961 Y962 K963 R964 T965 F966 P967 V968
L969 L970 R971 L972 A973 C974 D975 V976 D977 Q978 V979 T980 L983 Y984 L987 V988 M989 Q990 L991 I992 H993 W994 F995 T996 N997 N998 K999 K1000 F1001 E1002 S1003 Q1004 V1007 A1008 L1009 L1010 E1011 A1012 I1013 L1014 D1015 G1016 I1017 V1018 D1019 P1020 S1023 T1024 D1027 F1028 R1031 C1032 I1033 R1034
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R1497 Q1498 C1499 D1504 L1505 S1506 C1507 K1508 Q1509 L1510 A1511 S1512 G1513 L1514 L1515 E1516 L1517 A1518 F1519 A1520 F1521 L1524 C1525 E1526 R1527 L1533 N1534 V1537 L1538 S1539 T1540 A1541 SER LEU GLY SER SER GLN GLY S1549 V1550 I1551 H1552 F1553 S1554 H1555 Y1558 F1559 Y1560 S1561 L1562 F1563 S1564 E1565 T1566
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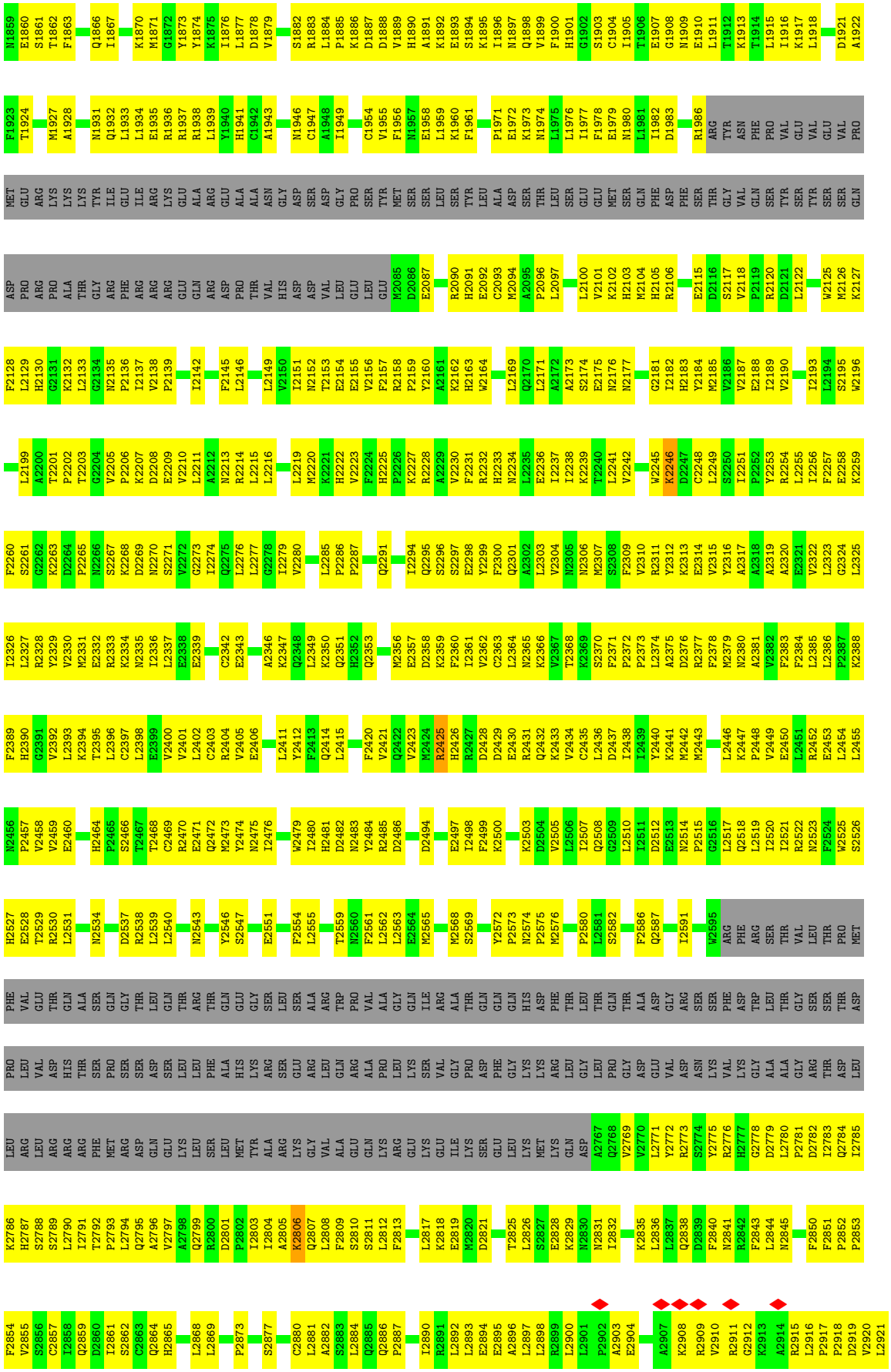

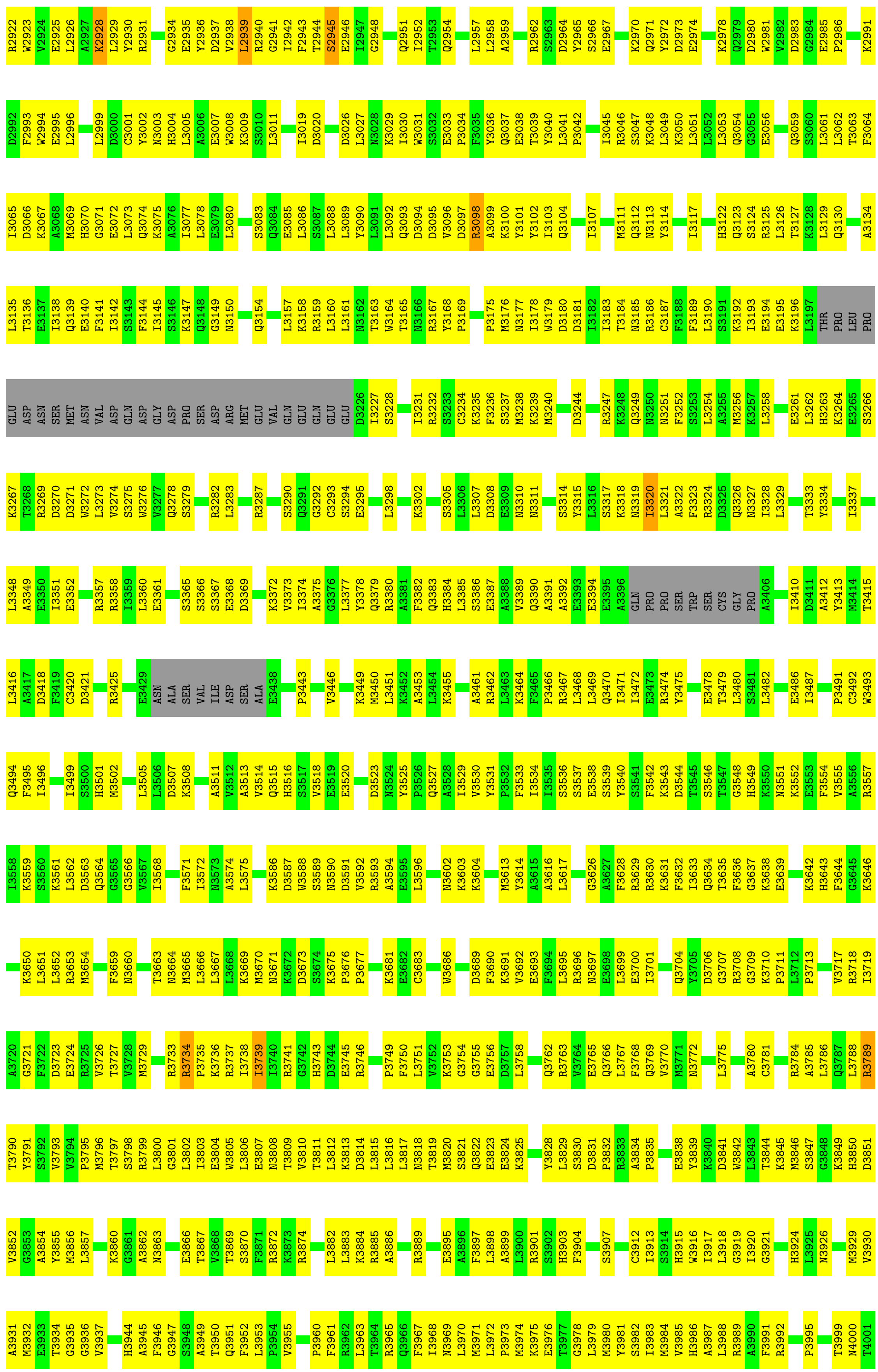
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GLU ASP ASN SER MET ASN VAL ASP GLN ASP GLY ASP PRO SER ASP ARG MET GLU VAL GLN GLU GLN GLU D3226 I3227 S3228 I3231 R3232 S3233 C3234 K3235 F3236 S3237 M3238 K3239 M3240 D3244 R3247 K3248 Q3249 N3250 N3251 F3252 S3253 L3254 A3255 M3256 K3257 L3258 E3261 L3262 H3263 K3264 E3265 S3266
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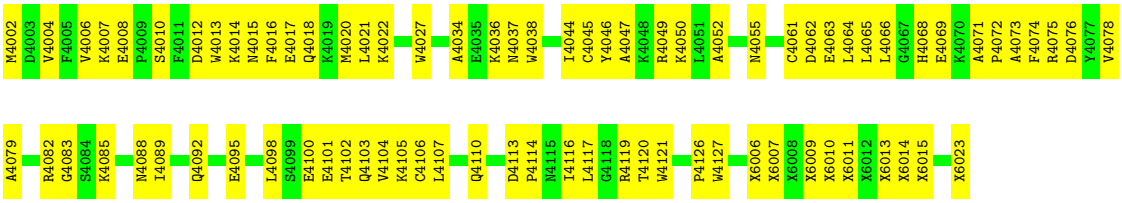
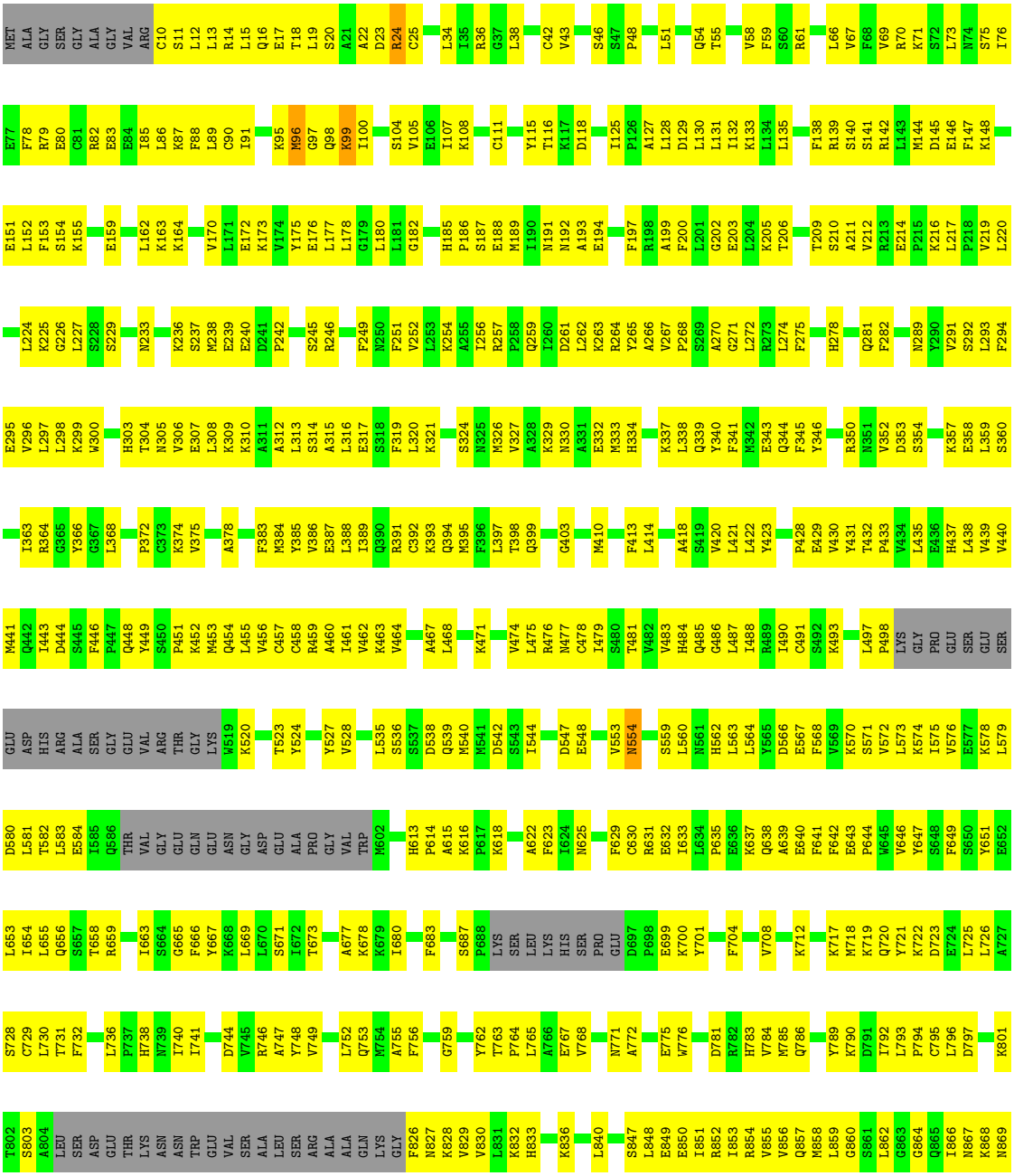


• Molecule 1: DNA-dependent protein kinase catalytic subunit,DNA-PKcs

Chain F:



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T1223 F1224 E1225 G1226 C1229 G1230 Q1231 P1232 S1233 G1234 I1235 Q1238 P1239 T1240 L1241 L1242 R1245 G1246 P1247 F1248 Q1251 C1255 W1256 L1257 L1260 L1261 L1264 E1265 C1266 Y1267 N1268 T1269 F1270 I1271 R1274 T1275 V1281 L1282 G1283 T1284 E1285 A1286 Q1287 S1288 S1289 L1290 L1291 K1292 A1293 V1294 A1295

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G1513 L1514 L1515 A1518 F1519 A1520 F1521 G1522 G1523 L1524 C1525 E1526 R1527 L1528 V1529 S1530 L1531 L1532 L1533 L1538 S1539 T1540 A1541 SER LEU GLY SER SER GLN GLY S1549 V1550 I1551 H1552 F1553 S1554 H1555 G1556 E1557 Y1558 F1559 Y1560 S1561 L1562 F1563 S1564 E1565 T1566 I1567 N1568 T1569 E1570 L1571 L1572 K1573 N1574 L1575 D1576

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V1713 L1714 E1715 Q1716 L1717 I1718 V1719 A1720 H1721 F1722 Q1725 S1726 R1727 E1728 F1729 P1730 P1731 G1732 T1733 P1734 R1735 F1736 N1737 N1738 D1741 C1742 M1743 K1744 K1745 F1746 L1747 D1748 A1749 L1750 S1755 P1756 M1757 L1758 L1759 E1760 L1761 M1762 T1763 E1764 V1765 L1766 C1767 R1768 E1769 Q1770 Q1771 H1772 V1773 M1774 E1775 E1776 L1777

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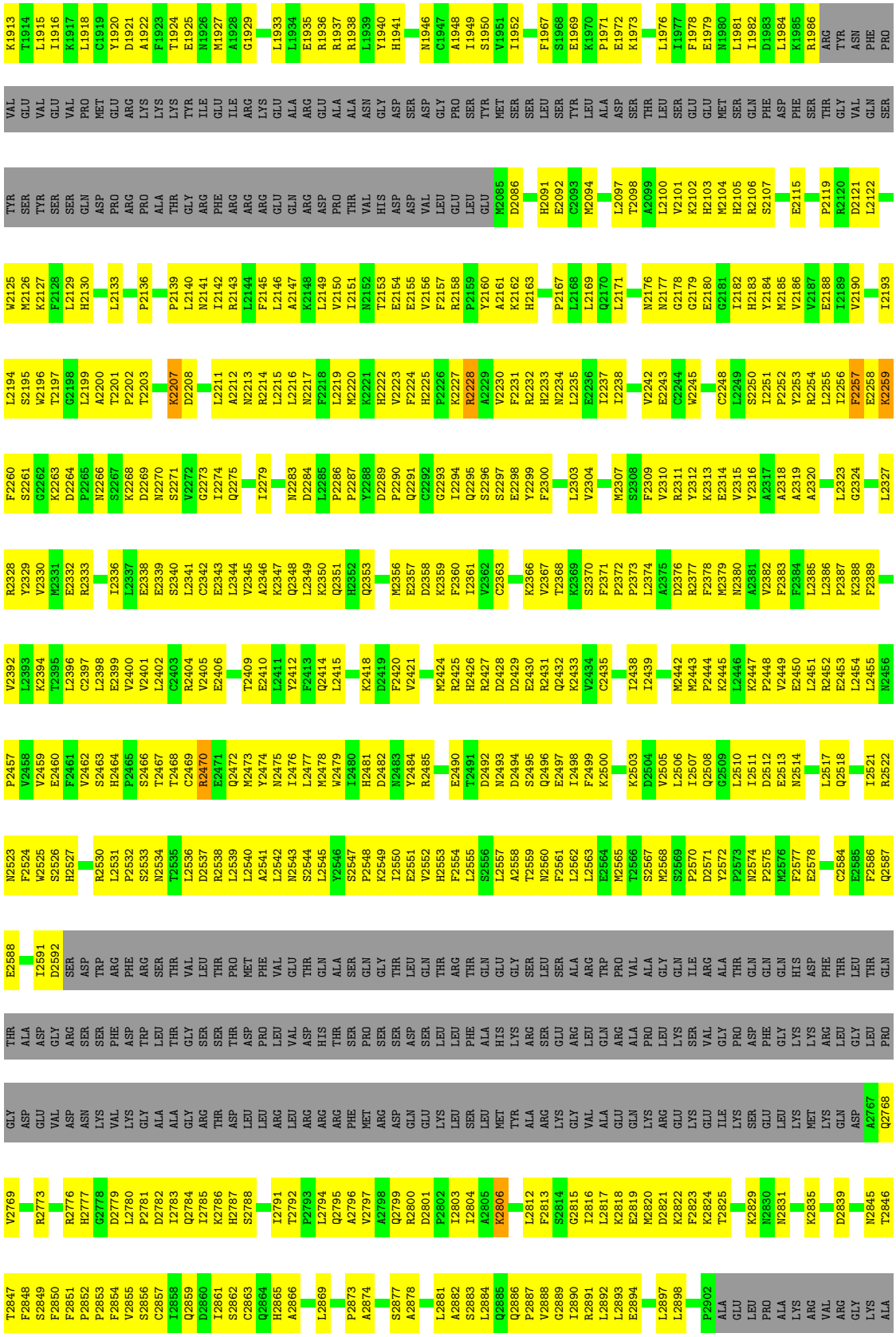

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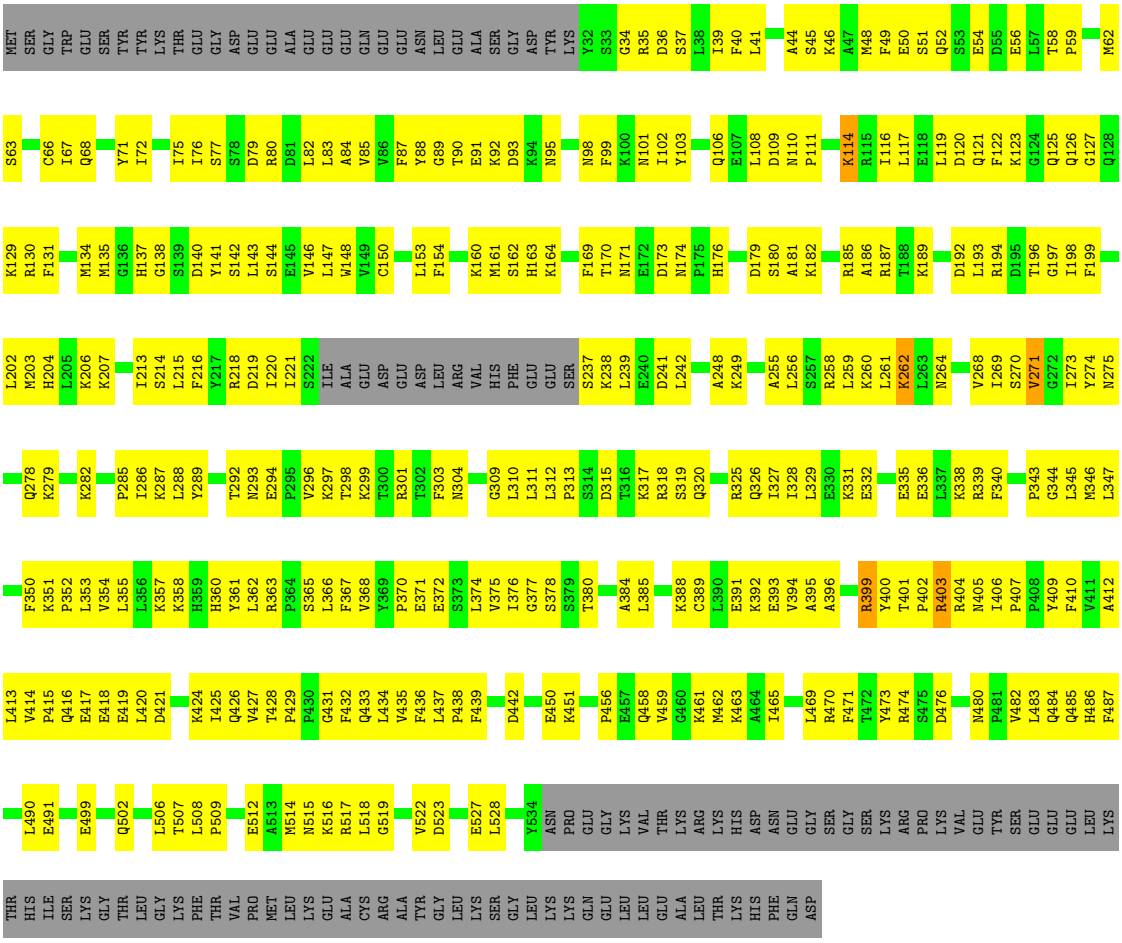
H3908 A3909 L3910 I3911 C3912 I3913 S3914 H3915 W3916 I3917 L3918 G3919 I3920 R3923 H3924 L3925 N3926 N3927 F3928 M3929 V3930 A3931 M3932 E3933 T3934 V3937 I3940 D3941 F3942 F3946 A3949 T3950 Q3951 F3952 L3953 P3954 V3955 P3956 E3957 L3958 R3962 L3963 T3964 R3965 Q3966 F3967 I3968 N3969 L3970 M3971 L3972 P3973 M3974 K3975

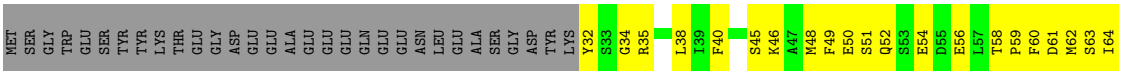
• Molecule 2: X-ray repair cross-complementing protein 6

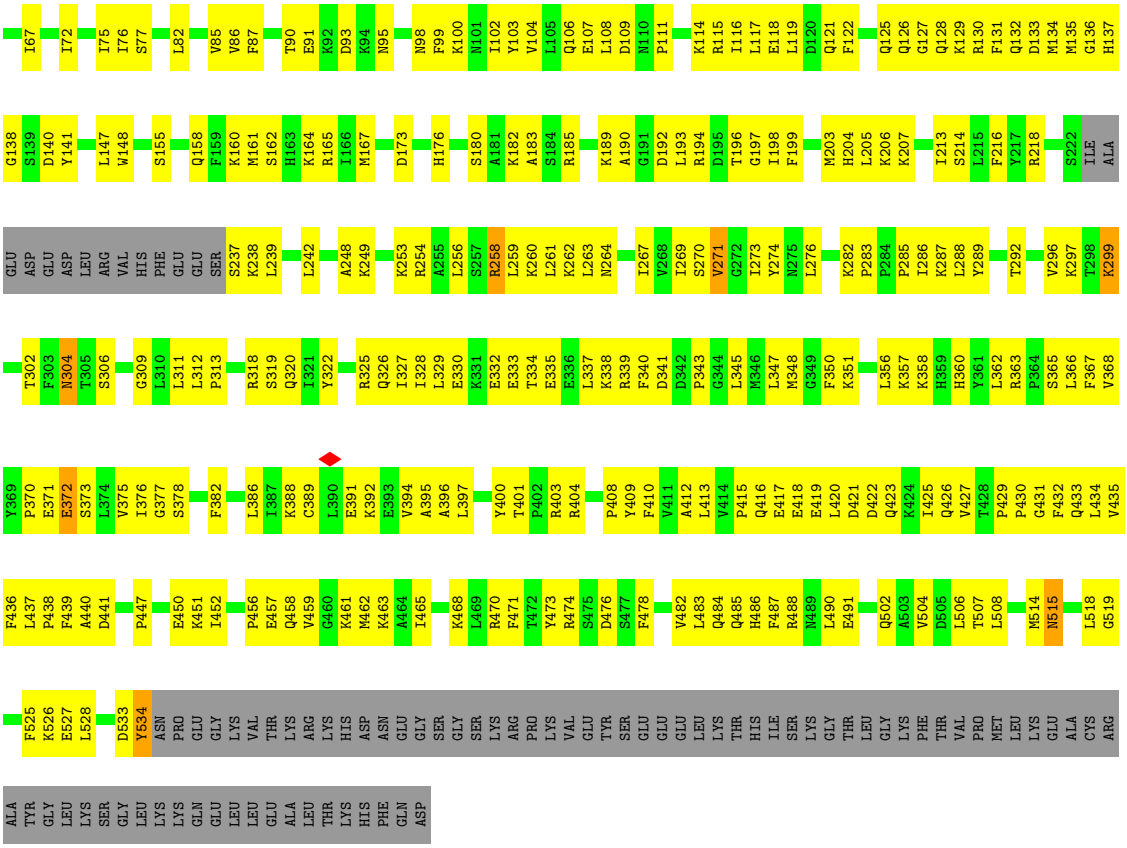
Chain B:



• Molecule 2: X-ray repair cross-complementing protein 6

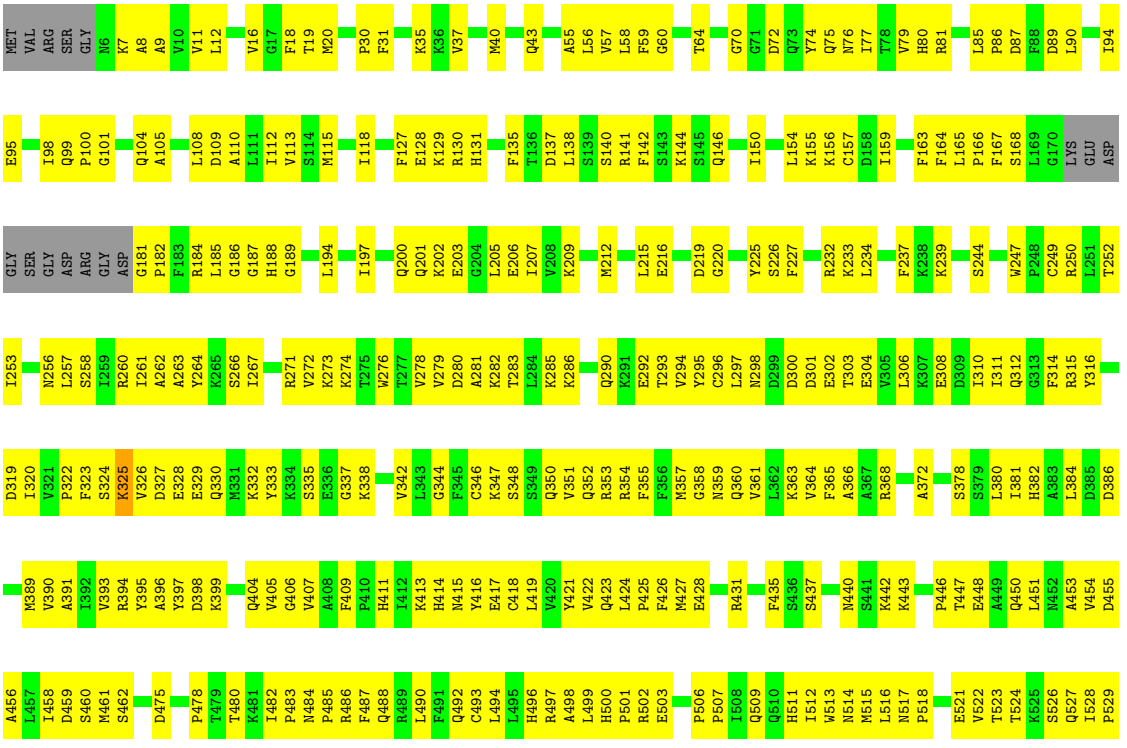
Chain G:

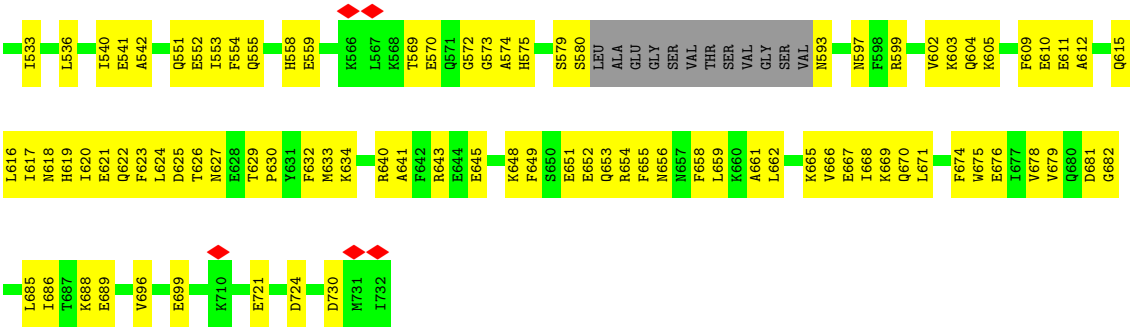




• Molecule 3: X-ray repair cross-complementing protein 5

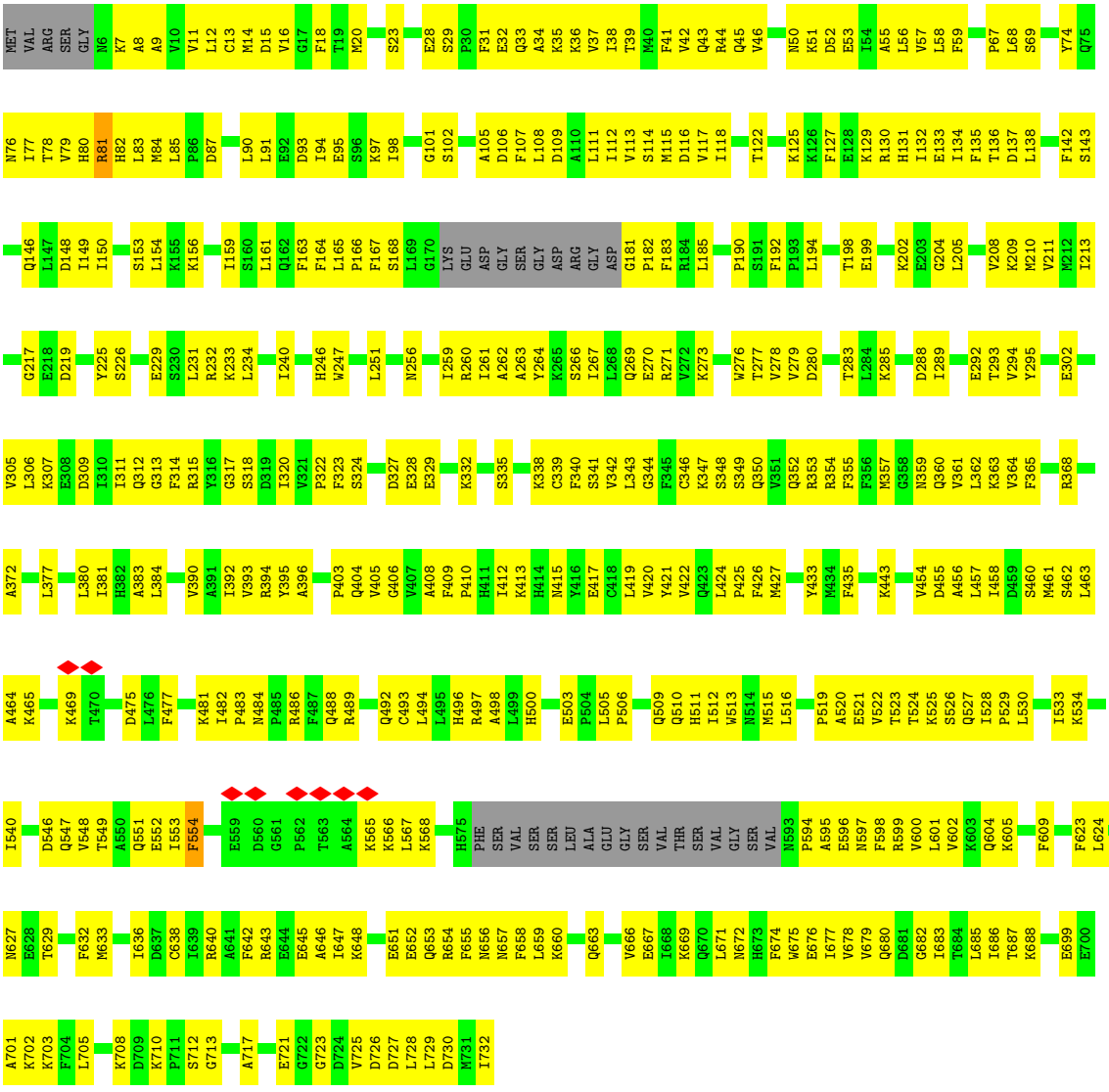
Chain C:





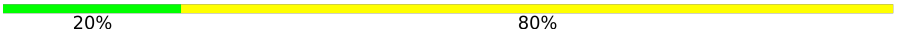
• Molecule 3: X-ray repair cross-complementing protein 5

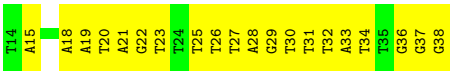
Chain H:



• Molecule 4: DNA (25-MER)

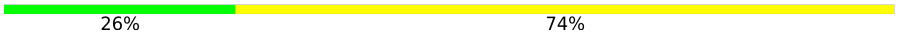
Chain J:





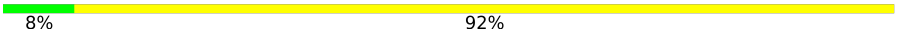
• Molecule 5: DNA (27-MER)

Chain I:



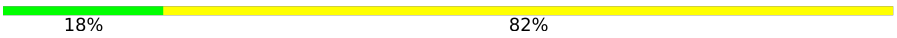
• Molecule 6: DNA (26-MER)

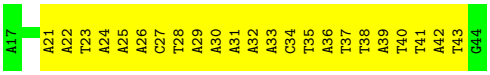
Chain D:



• Molecule 7: DNA (28-MER)

Chain E:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	10808	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	52.97	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.469	Depositor
Minimum map value	-0.111	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.020	Depositor
Recommended contour level	0.085	Depositor
Map size (Å)	588.0, 588.0, 588.0	wwPDB
Map dimensions	560, 560, 560	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.05, 1.05, 1.05	Depositor

5 Model quality

5.1 Standard geometry

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	0.35	0/29462	0.54	1/39939 (0.0%)
1	F	0.33	0/29464	0.51	2/39913 (0.0%)
2	B	0.33	0/3864	0.56	0/5226
2	G	0.31	0/3871	0.55	0/5236
3	C	0.30	0/5595	0.49	0/7557
3	H	0.29	0/5625	0.50	0/7589
4	J	0.68	0/570	1.01	0/876
5	I	0.77	0/620	0.97	0/953
6	D	0.82	0/591	0.99	0/908
7	E	0.80	0/644	0.95	0/990
All	All	0.35	0/80306	0.55	3/109187 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	2259	LYS	CB-CG-CD	5.69	126.38	111.60
1	F	1721	HIS	C-N-CA	-5.38	108.24	121.70
1	A	2939	LEU	CB-CG-CD2	-5.16	102.23	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	29018	0	28461	2369	0
1	F	29012	0	28652	2188	0
2	B	3789	0	3721	347	0
2	G	3797	0	3734	318	0
3	C	5490	0	5397	391	0
3	H	5517	0	5468	380	0
4	J	509	0	271	33	0
5	I	552	0	301	35	0
6	D	528	0	282	49	0
7	E	573	0	312	48	0
All	All	78785	0	76599	5907	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 38.

All (5907) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3443:PRO:HB2	1:A:3478:GLU:CB	1.66	1.26
2:G:271:VAL:HG12	2:G:370:PRO:CA	1.72	1.20
1:A:446:PHE:H	1:A:447:PRO:CD	1.54	1.19
2:G:271:VAL:CG1	2:G:370:PRO:HA	1.72	1.17
2:G:273:ILE:CG1	2:G:368:VAL:HG22	1.75	1.13
1:F:3447:VAL:HG21	1:F:3478:GLU:O	1.51	1.10
2:G:273:ILE:HG13	2:G:368:VAL:HG22	1.10	1.10
1:A:1537:VAL:HG23	1:A:1553:PHE:O	1.53	1.07
2:B:271:VAL:HG12	2:B:370:PRO:HA	1.08	1.07
2:G:273:ILE:HG13	2:G:368:VAL:CG2	1.86	1.05
1:F:240:GLU:HG2	1:F:242:PRO:HD2	1.37	1.04
1:A:408:TYR:HD1	1:A:449:TYR:CZ	1.78	1.01
1:A:446:PHE:H	1:A:447:PRO:HD2	1.24	1.01
1:A:3315:TYR:HA	1:A:3318:LYS:HB3	1.45	0.98
3:H:671:LEU:HB2	3:H:674:PHE:HB3	1.46	0.97
1:A:1540:THR:HG1	1:A:1549:SER:N	1.61	0.97
2:G:271:VAL:HG12	2:G:370:PRO:HA	0.98	0.96
1:A:3514:VAL:O	1:A:3518:VAL:HG23	1.65	0.96
2:G:95:ASN:HD21	2:G:99:PHE:N	1.63	0.95
1:A:449:TYR:HD2	1:A:453:MET:CE	1.79	0.95
2:G:95:ASN:ND2	2:G:99:PHE:H	1.63	0.95
1:A:3026:ASP:HB2	1:A:3030:ILE:HD13	1.47	0.94
1:A:152:LEU:HA	1:A:155:LYS:HZ3	1.32	0.94
2:G:93:ASP:OD2	2:G:100:LYS:HA	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3008:TRP:HA	1:A:3011:LEU:HD13	1.46	0.93
1:A:449:TYR:HD2	1:A:453:MET:HE1	1.34	0.93
1:A:408:TYR:CD1	1:A:449:TYR:CZ	2.58	0.92
1:A:1400:VAL:HG11	1:A:1460:ARG:HG3	1.50	0.92
2:G:416:GLN:HB3	2:G:431:GLY:H	1.33	0.92
1:A:3163:THR:HG22	1:A:3167:ARG:HH12	1.32	0.92
1:A:3750:PHE:HA	1:A:3804:GLU:HA	1.53	0.91
1:A:3825:LYS:HA	1:A:3829:LEU:HB3	1.54	0.90
1:F:421:LEU:HD22	1:F:467:ALA:HB1	1.54	0.90
1:A:446:PHE:N	1:A:447:PRO:CD	2.33	0.90
6:D:28:DA:N1	7:E:28:DT:N3	2.20	0.89
1:A:483:VAL:HG21	1:A:568:PHE:HA	1.52	0.89
3:H:77:ILE:HD11	3:H:109:ASP:HB3	1.53	0.89
2:B:271:VAL:HG12	2:B:370:PRO:CA	1.99	0.89
1:A:2298:GLU:HA	1:A:2301:GLN:HG2	1.53	0.89
2:B:271:VAL:CG1	2:B:370:PRO:HA	2.00	0.89
1:A:793:LEU:HB3	1:A:870:LEU:HB3	1.54	0.89
6:D:32:DT:H3	7:E:24:DA:N6	1.70	0.89
1:A:1102:GLU:HA	1:A:1154:PRO:HB3	1.55	0.88
2:G:318:ARG:HB3	3:H:276:TRP:HB3	1.52	0.88
1:A:3361:GLU:HB2	1:A:3366:SER:HA	1.53	0.88
3:H:136:THR:HG22	3:H:138:LEU:H	1.36	0.88
1:A:3161:LEU:HA	1:A:3164:TRP:HE3	1.39	0.88
2:B:339:ARG:HG3	2:B:404:ARG:HG2	1.55	0.87
1:A:974:CYS:HA	1:A:1028:PHE:HE2	1.39	0.87
1:A:407:VAL:O	1:A:449:TYR:HE2	1.57	0.86
1:A:1092:GLU:HG3	1:A:1095:LEU:HB2	1.55	0.86
1:F:1827:LEU:HA	1:F:1830:HIS:HB3	1.57	0.86
1:F:2376:ASP:HA	1:F:2379:MET:HB2	1.58	0.86
1:F:2115:GLU:HA	1:F:2119:PRO:HA	1.57	0.86
4:J:22:DG:N1	5:I:34:DC:N3	2.24	0.86
1:A:4113:ASP:HB3	1:A:4116:ILE:HG22	1.58	0.85
1:A:656:GLN:HA	1:A:659:ARG:HB2	1.57	0.85
1:F:20:SER:HB2	1:F:69:VAL:HG11	1.57	0.85
1:F:1226:GLY:HA2	1:F:1231:GLN:HB2	1.56	0.85
2:B:416:GLN:HB3	2:B:431:GLY:H	1.41	0.85
1:A:386:VAL:HG12	1:A:390:GLN:HE22	1.41	0.85
6:D:33:DA:H2	7:E:24:DA:N1	1.75	0.85
1:F:326:MET:HA	1:F:329:LYS:HE2	1.57	0.84
1:A:1210:ASP:HA	1:A:1213:LYS:HD3	1.58	0.84
1:A:3072:GLU:HG3	1:A:3073:LEU:H	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:PHE:H	1:A:447:PRO:HD3	1.42	0.84
1:A:2534:ASN:HB3	1:A:2537:ASP:HB3	1.59	0.84
1:A:959:TYR:HA	1:A:962:TYR:HD2	1.40	0.83
1:A:2575:PRO:HB3	1:A:2784:GLN:HA	1.61	0.83
2:B:462:MET:HA	2:B:465:ILE:HG12	1.60	0.83
1:F:755:ALA:HB1	1:F:765:LEU:HD11	1.61	0.83
1:F:2851:PHE:HD2	1:F:2854:PHE:HB2	1.41	0.83
2:G:95:ASN:HD21	2:G:99:PHE:H	0.85	0.83
2:B:262:LYS:HE3	2:B:346:MET:HA	1.59	0.83
1:A:895:ALA:HA	1:A:904:VAL:HA	1.61	0.83
1:A:3451:LEU:HD13	1:A:3486:GLU:CB	2.07	0.82
6:D:33:DA:C2	7:E:24:DA:N1	2.47	0.82
1:A:2965:TYR:HB3	1:A:3001:CYS:HB2	1.60	0.82
1:F:925:GLN:HE22	1:F:2769:VAL:HA	1.44	0.82
3:H:56:LEU:HB3	3:H:81:ARG:HB3	1.61	0.82
1:A:408:TYR:CE1	1:A:449:TYR:CE1	2.68	0.82
1:F:3354:ASP:H	1:F:3357:ARG:HH21	1.24	0.82
1:A:1686:LEU:HA	1:A:1689:LYS:HE2	1.61	0.82
1:F:3630:ARG:HH21	1:F:3634:GLN:HB3	1.45	0.81
1:F:3710:LYS:NZ	1:F:3711:PRO:O	2.13	0.81
2:G:302:THR:HG21	2:G:311:LEU:HD23	1.61	0.81
1:A:2158:ARG:HH22	1:A:2196:TRP:HB3	1.46	0.81
1:A:3842:TRP:HA	1:A:3845:LYS:HE2	1.60	0.81
7:E:41:DT:H2"	7:E:42:DA:N7	1.95	0.81
2:B:95:ASN:HD22	2:B:102:ILE:HG21	1.45	0.81
1:F:1096:VAL:HG23	1:F:1141:LYS:HZ3	1.44	0.81
1:A:888:ARG:HE	1:A:3889:ARG:HG3	1.44	0.81
2:B:374:LEU:HB2	3:C:542:ALA:HB3	1.63	0.81
1:F:339:GLN:HE22	3:H:565:LYS:H	1.27	0.81
1:F:793:LEU:HD22	1:F:869:ASN:HB2	1.61	0.81
1:A:175:TYR:HB3	1:A:227:LEU:HD12	1.62	0.80
1:A:449:TYR:CD2	1:A:453:MET:CE	2.63	0.80
1:A:2945:SER:HB2	1:A:3975:LYS:HE3	1.62	0.80
1:A:736:LEU:HB3	1:A:740:ILE:HD11	1.64	0.80
1:A:3807:GLU:OE2	1:A:3808:ASN:ND2	2.14	0.80
1:F:2466:SER:HG	1:F:2469:CYS:HG	1.18	0.80
1:F:722:LYS:HA	1:F:726:LEU:HD23	1.64	0.80
2:B:304:ASN:HB3	2:B:311:LEU:HD21	1.63	0.80
3:H:46:VAL:HG11	3:H:91:LEU:HD11	1.62	0.80
1:A:1242:LEU:HD22	1:A:1311:LYS:HB2	1.63	0.80
1:F:145:ASP:HA	1:F:148:LYS:HE2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3414:MET:SD	1:F:3464:LYS:NZ	2.54	0.80
1:F:3882:LEU:HA	1:F:3885:ARG:HE	1.46	0.79
2:G:38:LEU:HD11	2:G:167:MET:HG2	1.62	0.79
2:G:271:VAL:HA	2:G:371:GLU:H	1.47	0.79
1:A:79:ARG:HH21	1:A:124:LYS:H	1.30	0.79
1:A:3884:LYS:HE2	1:A:3970:LEU:HD23	1.64	0.79
1:F:13:LEU:HD22	1:F:59:PHE:HD1	1.47	0.79
1:A:1537:VAL:CG2	1:A:1553:PHE:O	2.29	0.79
1:A:2525:TRP:HB3	1:A:2561:PHE:HZ	1.46	0.79
1:F:2938:VAL:HG13	1:F:3979:LEU:HD21	1.63	0.79
3:H:552:GLU:HG3	3:H:553:ILE:H	1.47	0.79
1:F:1755:SER:OG	1:F:1757:MET:SD	2.40	0.79
1:A:892:LEU:HG	1:A:907:LEU:HD21	1.65	0.78
1:A:1958:GLU:HG3	1:A:1960:LYS:H	1.49	0.78
1:F:1915:LEU:HA	1:F:1918:LEU:HB2	1.64	0.78
2:G:386:LEU:HD13	2:G:430:PRO:HB2	1.63	0.78
1:F:1071:ASN:HB3	1:F:1074:LYS:HG2	1.64	0.78
1:F:1448:LEU:HD11	1:F:1514:LEU:HD21	1.66	0.78
3:C:365:PHE:HB2	3:C:368:ARG:HH12	1.47	0.78
1:A:2938:VAL:O	1:A:2942:ILE:HG22	1.83	0.78
2:B:84:ALA:HB2	2:B:108:LEU:HA	1.66	0.78
1:A:2540:LEU:HD13	1:A:2543:ASN:HD22	1.49	0.78
1:F:1742:CYS:HA	1:F:1745:LYS:HE2	1.66	0.78
1:F:2526:SER:HA	1:F:2531:LEU:HD12	1.66	0.78
1:A:393:LYS:HB2	1:A:397:LEU:HD23	1.64	0.78
1:F:3040:TYR:HA	1:F:3043:TYR:HD2	1.49	0.78
1:F:3822:GLN:HA	1:F:3825:LYS:HE2	1.66	0.77
1:A:637:LYS:NZ	1:A:638:GLN:O	2.17	0.77
1:F:3958:LEU:HD21	1:F:4081:ALA:HA	1.65	0.77
2:G:302:THR:CG2	2:G:311:LEU:HD23	2.13	0.77
1:A:2133:LEU:HD11	1:A:2171:LEU:HD21	1.66	0.77
1:F:1367:HIS:NE2	1:F:1371:VAL:HG11	2.00	0.77
1:A:741:ILE:HA	1:A:748:TYR:HE2	1.49	0.77
1:A:3379:GLN:HA	1:A:3382:PHE:HB2	1.64	0.77
1:F:2916:LEU:HD21	1:F:2987:THR:HG21	1.65	0.77
1:A:1630:ASP:HA	1:A:1633:TRP:HE1	1.50	0.76
1:F:3467:ARG:HH22	1:F:3471:ILE:HD12	1.50	0.76
1:F:2133:LEU:HD21	1:F:2171:LEU:HD13	1.67	0.76
2:B:421:ASP:HB2	2:B:425:ILE:HB	1.68	0.76
1:A:235:THR:HG23	1:A:236:LYS:HG2	1.67	0.76
1:A:3603:LYS:HE3	1:A:3652:LEU:HD13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1759:LEU:HD13	1:F:1797:LEU:HD12	1.67	0.76
1:A:2254:ARG:HH12	1:A:2294:ILE:HG12	1.51	0.76
1:F:352:VAL:HG23	1:F:353:ASP:H	1.51	0.76
1:F:1743:MET:HA	1:F:1746:PHE:HD2	1.50	0.76
1:F:2328:ARG:HD2	1:F:2333:ARG:HD3	1.67	0.76
1:A:3357:ARG:HG3	1:A:3360:LEU:HD12	1.67	0.76
1:F:1208:LEU:HG	1:F:1212:LEU:HD23	1.67	0.76
1:F:2103:HIS:HA	1:F:2106:ARG:HB2	1.67	0.76
1:A:408:TYR:CD1	1:A:449:TYR:CE1	2.73	0.76
2:B:85:VAL:H	2:B:106:GLN:HB2	1.50	0.76
1:F:667:TYR:HB2	1:F:728:SER:HB2	1.64	0.76
1:F:959:TYR:HB2	1:F:1004:GLN:HE22	1.50	0.76
3:H:56:LEU:HG	3:H:80:HIS:HB3	1.67	0.76
1:F:877:ASP:HA	1:F:880:MET:HB2	1.68	0.75
1:A:2376:ASP:OD1	1:A:2377:ARG:NH1	2.19	0.75
1:A:3930:VAL:HG22	1:A:3937:VAL:HG12	1.66	0.75
1:F:2506:LEU:HB3	1:F:2525:TRP:HH2	1.51	0.75
3:H:484:ASN:HB3	3:H:486:ARG:HG2	1.67	0.75
1:A:1271:ILE:HD13	1:A:1278:ALA:H	1.51	0.75
1:F:1786:ALA:H	1:F:1830:HIS:CE1	2.03	0.75
1:F:3164:TRP:HB3	1:F:3186:ARG:HH21	1.50	0.75
1:A:472:GLY:HA2	1:A:475:LEU:HB2	1.68	0.75
1:A:585:ILE:HG23	1:A:611:ASN:HB3	1.66	0.75
1:A:2500:LYS:HA	1:A:2503:LYS:HE2	1.67	0.75
1:F:3969:ASN:HD22	1:F:3972:LEU:HD21	1.51	0.75
1:F:474:VAL:HA	1:F:477:ASN:HD21	1.50	0.75
2:B:271:VAL:HA	2:B:371:GLU:H	1.51	0.75
1:F:3187:CYS:HA	1:F:3190:LEU:HD12	1.67	0.75
2:G:320:GLN:HB2	2:G:327:ILE:HB	1.67	0.75
3:C:11:VAL:HG23	3:C:55:ALA:HB3	1.67	0.75
2:B:485:GLN:HE22	2:B:502:GLN:HA	1.52	0.75
1:F:3026:ASP:O	1:F:3031:TRP:NE1	2.20	0.75
2:G:421:ASP:HB2	2:G:425:ILE:HB	1.68	0.75
1:F:71:LYS:HG3	1:F:73:LEU:HD22	1.69	0.74
1:A:850:GLU:HA	1:A:853:ILE:HD12	1.66	0.74
1:F:10:CYS:SG	1:F:11:SER:N	2.59	0.74
1:F:3352:GLU:O	1:F:3357:ARG:NH2	2.20	0.74
1:F:3980:MET:HA	1:F:3983:ILE:HG22	1.69	0.74
2:G:128:GLN:OE1	2:G:132:GLN:NE2	2.20	0.74
1:A:585:ILE:HG22	1:A:586:GLN:HG3	1.69	0.74
1:A:2157:PHE:HB2	1:A:2160:TYR:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3589:SER:HB2	1:A:3593:ARG:HH12	1.52	0.74
1:F:36:ARG:NE	1:F:36:ARG:HA	2.01	0.74
1:A:1357:LYS:O	1:A:1361:LYS:NZ	2.21	0.74
1:A:3375:ALA:O	1:A:3379:GLN:NE2	2.20	0.74
3:C:342:VAL:HA	3:C:393:VAL:HA	1.67	0.74
1:F:2341:LEU:HD23	1:F:2344:LEU:HD12	1.70	0.74
1:F:3031:TRP:HB3	1:F:3041:LEU:HD11	1.70	0.74
1:F:708:VAL:HG12	1:F:712:LYS:HZ1	1.53	0.74
1:F:1848:ILE:O	1:F:1852:LYS:NZ	2.20	0.74
1:F:2346:ALA:O	1:F:2350:LYS:NZ	2.21	0.74
2:B:140:ASP:OD1	2:B:141:TYR:N	2.20	0.74
3:C:688:LYS:HB3	3:C:696:VAL:HB	1.69	0.74
1:A:1071:ASN:HB3	1:A:1074:LYS:HD3	1.69	0.74
1:A:3462:ARG:HH12	1:A:3708:ARG:HA	1.52	0.74
1:A:3869:THR:HG22	1:A:3872:ARG:HH12	1.53	0.74
2:B:363:ARG:NH2	3:C:359:ASN:O	2.21	0.74
1:F:738:HIS:HA	1:F:776:TRP:CD1	2.23	0.74
3:H:679:VAL:HG21	3:H:705:LEU:HD11	1.70	0.74
3:C:72:ASP:HA	3:C:75:GLN:HE21	1.52	0.74
1:F:1625:HIS:HA	1:F:1628:LYS:HZ3	1.52	0.74
1:F:2430:GLU:HA	1:F:2433:LYS:HE2	1.70	0.74
1:F:4045:CYS:HA	1:F:4048:LYS:HE2	1.68	0.74
1:A:240:GLU:HG2	1:A:242:PRO:HD2	1.70	0.73
2:B:170:THR:HG22	2:B:202:LEU:HD11	1.70	0.73
1:F:3046:ARG:HG2	1:F:3050:LYS:HZ2	1.52	0.73
2:G:339:ARG:HG3	2:G:404:ARG:HG3	1.70	0.73
1:A:3161:LEU:HA	1:A:3164:TRP:CE3	2.23	0.73
1:F:339:GLN:NE2	3:H:566:LYS:H	1.85	0.73
1:F:3095:ASP:HB3	1:F:3098:ARG:HH12	1.52	0.73
3:H:115:MET:HG2	3:H:153:SER:HB3	1.69	0.73
1:A:1840:PHE:HE2	1:A:1898:GLN:HB2	1.53	0.73
3:C:186:GLY:HA3	3:C:232:ARG:HG3	1.69	0.73
1:A:407:VAL:HB	1:A:449:TYR:OH	1.88	0.73
1:A:1392:MET:HA	1:A:1395:LEU:HG	1.70	0.73
2:B:376:ILE:HB	3:C:540:ILE:HG13	1.70	0.73
2:B:528:LEU:HD21	3:C:372:ALA:HB1	1.70	0.73
1:F:70:ARG:HE	1:F:82:ARG:HG3	1.52	0.73
1:F:1331:ASN:HA	1:F:1334:LYS:HZ3	1.51	0.73
1:A:81:CYS:HB2	1:A:82:ARG:HH11	1.53	0.73
1:A:370:ALA:HB2	1:A:420:VAL:HG12	1.69	0.73
1:F:1371:VAL:HA	1:F:1374:GLN:OE1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3052:LEU:HA	1:F:3056:GLU:HB3	1.71	0.73
3:H:168:SER:H	3:H:192:PHE:HB2	1.52	0.73
1:A:1708:GLU:HB2	1:A:1712:ARG:HH12	1.51	0.73
1:A:3982:SER:O	1:A:3986:HIS:ND1	2.21	0.73
2:B:320:GLN:HB2	2:B:327:ILE:HB	1.69	0.73
2:B:358:LYS:HB3	3:C:409:PHE:HE2	1.53	0.73
1:A:82:ARG:H	1:A:82:ARG:HD2	1.54	0.73
2:B:470:ARG:HE	3:C:346:CYS:HA	1.54	0.73
1:F:2389:PHE:HB2	1:F:2394:LYS:HD3	1.70	0.73
2:G:128:GLN:O	2:G:132:GLN:NE2	2.21	0.73
1:A:3953:LEU:HD11	1:A:4027:TRP:HB2	1.69	0.73
2:B:484:GLN:HE22	2:B:485:GLN:HE21	1.34	0.73
1:F:1528:LEU:HD13	1:F:1531:LEU:HD12	1.71	0.73
4:J:36:DG:H2"	4:J:37:DG:H5"	1.70	0.73
1:A:180:LEU:HA	1:A:230:LEU:HD22	1.70	0.73
1:A:3282:ARG:HH12	1:A:3329:LEU:HD23	1.51	0.73
1:F:623:PHE:HE2	1:F:663:ILE:HG21	1.54	0.73
1:F:1743:MET:HA	1:F:1746:PHE:CD2	2.24	0.73
6:D:25:DT:H2"	6:D:26:DT:H5"	1.69	0.73
1:A:1391:VAL:HA	1:A:1394:HIS:HB3	1.69	0.72
1:A:2383:PHE:HA	1:A:2386:LEU:HD23	1.71	0.72
1:F:1795:VAL:HG13	1:F:1839:PHE:HB2	1.70	0.72
2:B:114:LYS:HA	2:B:117:LEU:HD12	1.68	0.72
1:F:3602:ASN:ND2	1:F:3651:LEU:O	2.22	0.72
1:A:19:LEU:HD12	1:A:34:LEU:HD23	1.70	0.72
1:A:1145:LEU:HB3	1:A:1165:LEU:HD21	1.71	0.72
2:B:343:PRO:HG3	2:B:403:ARG:HA	1.69	0.72
1:F:66:LEU:HD12	1:F:69:VAL:HB	1.70	0.72
1:F:864:GLY:HA3	1:F:3169:PRO:HA	1.70	0.72
3:H:280:ASP:HB2	3:H:283:THR:HG22	1.70	0.72
3:H:546:ASP:OD1	3:H:547:GLN:N	2.22	0.72
1:A:656:GLN:OE1	1:A:656:GLN:N	2.20	0.72
1:A:1153:LEU:HD11	1:A:1157:PHE:HB2	1.71	0.72
3:C:656:ASN:HA	3:C:659:LEU:HD12	1.71	0.72
1:F:1164:CYS:SG	1:F:1165:LEU:N	2.59	0.72
1:F:1653:LEU:HD21	1:F:1698:PHE:HB2	1.71	0.72
1:F:3588:TRP:HB2	1:F:3612:ARG:HH12	1.55	0.72
1:F:3812:LEU:HD22	1:F:3925:LEU:HD21	1.72	0.72
1:F:2257:PHE:HA	1:F:2260:PHE:CE2	2.24	0.72
1:A:4083:GLY:HA3	1:A:4088:ASN:HD22	1.54	0.72
1:F:1039:TRP:CD1	1:F:1042:LYS:HE3	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:438:LEU:O	1:A:442:GLN:NE2	2.23	0.72
1:A:3163:THR:HG22	1:A:3167:ARG:NH1	2.04	0.72
1:A:3554:PHE:HA	1:A:3557:ARG:HB3	1.72	0.72
1:F:2312:TYR:HD2	1:F:2315:VAL:HG23	1.55	0.72
1:F:3856:MET:SD	1:F:4077:TYR:OH	2.45	0.72
2:G:273:ILE:CG1	2:G:368:VAL:CG2	2.58	0.72
6:D:21:DA:N1	7:E:37:DT:N3	2.37	0.72
1:A:2205:VAL:HG13	1:A:2208:ASP:H	1.54	0.71
2:B:353:LEU:HB2	2:B:393:GLU:HG3	1.71	0.71
1:F:493:LYS:O	1:F:625:ASN:ND2	2.23	0.71
4:J:29:DG:H2"	4:J:30:DT:H5"	1.72	0.71
1:A:968:VAL:HA	1:A:971:ARG:HD3	1.71	0.71
1:A:1540:THR:OG1	1:A:1549:SER:N	2.22	0.71
1:A:2380:ASN:OD1	1:A:2381:ALA:N	2.22	0.71
1:A:4116:ILE:HA	1:A:4119:ARG:HB2	1.72	0.71
1:F:1374:GLN:O	1:F:1378:GLU:N	2.23	0.71
1:A:898:PHE:CE2	1:A:903:PRO:HD2	2.24	0.71
1:A:2810:SER:HA	1:A:2861:ILE:HD11	1.72	0.71
1:A:3629:ARG:HD2	1:A:3632:PHE:HD2	1.55	0.71
3:C:297:LEU:HB2	3:C:303:THR:HB	1.72	0.71
3:C:453:ALA:HB1	3:C:533:ILE:HG23	1.71	0.71
3:C:605:LYS:NZ	3:C:611:GLU:O	2.23	0.71
1:F:338:LEU:HD12	3:H:567:LEU:HB3	1.72	0.71
3:H:108:LEU:HA	3:H:111:LEU:HD12	1.72	0.71
1:A:1028:PHE:HA	1:A:1031:ARG:HD2	1.72	0.71
1:A:3471:ILE:HD13	1:A:3474:ARG:HD3	1.72	0.71
2:B:461:LYS:HD2	2:B:527:GLU:HB2	1.71	0.71
1:F:2414:GLN:HG3	2:G:148:TRP:HZ2	1.55	0.71
1:F:3507:ASP:HA	1:F:3540:TYR:HA	1.71	0.71
4:J:15:DA:H5'	5:I:42:DA:H2	1.54	0.71
1:F:188:GLU:O	1:F:192:ASN:ND2	2.22	0.71
1:F:3620:PRO:HB3	1:F:3630:ARG:HH12	1.55	0.71
1:A:2139:PRO:HD2	1:A:2142:ILE:HD12	1.71	0.71
1:A:3326:GLN:OE1	1:A:3326:GLN:N	2.23	0.71
2:G:528:LEU:HD21	3:H:372:ALA:HB1	1.72	0.71
3:C:381:ILE:HD13	3:C:417:GLU:HB2	1.70	0.71
1:F:888:ARG:O	1:F:3889:ARG:NH1	2.20	0.71
3:H:154:LEU:HD13	3:H:161:LEU:HD11	1.71	0.71
1:A:1202:ARG:NH2	1:A:1207:TRP:O	2.24	0.71
1:A:3593:ARG:NH2	1:A:3663:THR:OG1	2.23	0.71
1:A:3810:VAL:O	1:A:3930:VAL:N	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:MET:HA	1:A:211:ALA:HB3	1.73	0.71
1:A:208:MET:HE3	3:C:551:GLN:HB2	1.72	0.71
1:A:251:PHE:HZ	1:A:285:CYS:HB3	1.56	0.71
1:F:3746:ARG:NH1	1:F:3746:ARG:HA	2.04	0.71
2:G:82:LEU:HD21	2:G:108:LEU:HB3	1.71	0.71
1:A:1452:VAL:HA	1:A:1517:LEU:HD11	1.73	0.71
2:G:474:ARG:HE	2:G:476:ASP:H	1.39	0.71
1:A:336:ASN:OD1	1:A:337:LYS:N	2.24	0.70
2:B:45:SER:HA	2:B:138:GLY:HA2	1.71	0.70
2:B:194:ARG:HH12	2:B:199:PHE:HA	1.54	0.70
1:F:1695:LEU:HB3	1:F:1699:PHE:HE2	1.56	0.70
1:F:3154:GLN:HA	1:F:3157:LEU:HD13	1.73	0.70
1:A:75:SER:O	1:A:79:ARG:N	2.21	0.70
1:A:1205:ASN:OD1	1:A:1206:LEU:N	2.24	0.70
1:A:2421:VAL:HG23	1:A:2457:PRO:HG3	1.72	0.70
1:A:2574:ASN:O	1:A:2787:HIS:N	2.24	0.70
1:A:3765:GLU:O	1:A:3769:GLN:NE2	2.24	0.70
1:F:1735:ARG:NH1	1:F:1736:PHE:HB2	2.06	0.70
3:H:81:ARG:HH12	3:H:84:MET:HB2	1.54	0.70
1:A:529:ASP:OD1	1:A:530:LEU:N	2.25	0.70
1:A:531:PHE:HD2	1:A:633:ILE:HG21	1.56	0.70
1:A:1069:HIS:HB3	1:A:1074:LYS:HG2	1.72	0.70
1:A:2115:GLU:HB3	1:A:2118:VAL:HA	1.74	0.70
2:B:363:ARG:HB2	2:B:436:PHE:HE2	1.56	0.70
1:F:2140:LEU:HA	1:F:2143:ARG:HE	1.57	0.70
3:H:131:HIS:ND1	3:H:133:GLU:OE2	2.23	0.70
1:A:1831:CYS:O	1:A:1883:ARG:NH2	2.24	0.70
1:A:2443:MET:HE2	1:A:2479:TRP:CE3	2.27	0.70
2:B:193:LEU:HB2	2:B:198:ILE:HD13	1.73	0.70
1:F:410:MET:HA	1:F:413:PHE:HD2	1.56	0.70
1:F:2344:LEU:HA	1:F:2347:LYS:HE2	1.72	0.70
1:F:2919:ASP:OD1	1:F:2922:ARG:NH1	2.25	0.70
1:A:891:ARG:NH2	1:A:958:MET:SD	2.64	0.70
2:B:351:LYS:O	2:B:395:ALA:N	2.24	0.70
2:B:368:VAL:HB	2:B:432:PHE:HB2	1.74	0.70
1:F:1689:LYS:HG2	1:F:1717:LEU:HD21	1.73	0.70
1:F:2931:ARG:HB3	1:F:2939:LEU:HD21	1.72	0.70
3:H:9:ALA:HB3	3:H:130:ARG:HA	1.74	0.70
1:A:1775:GLU:O	1:A:1778:PHE:N	2.24	0.70
1:A:3751:LEU:N	1:A:3803:ILE:O	2.24	0.70
3:C:353:ARG:NH1	3:C:353:ARG:O	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3615:ALA:HA	1:F:3619:ASP:HB2	1.73	0.70
1:A:2481:HIS:O	1:A:2485:ARG:N	2.25	0.70
1:A:3099:ALA:HA	1:A:3102:TYR:CD2	2.27	0.70
1:F:3078:LEU:HD12	1:F:3082:TYR:HB2	1.73	0.70
1:F:3740:ILE:HB	1:F:3748:HIS:HB2	1.72	0.70
1:F:3781:CYS:O	1:F:3785:ALA:N	2.25	0.70
1:F:3085:GLU:OE1	1:F:3085:GLU:N	2.21	0.70
3:H:271:ARG:HH11	3:H:486:ARG:HH22	1.38	0.70
1:A:1406:LEU:HD22	1:A:1415:LEU:HD13	1.73	0.70
1:F:1626:TRP:HE1	1:F:1627:LYS:HZ3	1.39	0.70
1:A:173:LYS:HG3	1:A:176:GLU:HG3	1.74	0.70
1:A:408:TYR:HE1	1:A:449:TYR:CE1	2.09	0.70
1:A:637:LYS:NZ	1:A:640:GLU:OE1	2.23	0.70
1:A:3633:ILE:O	1:A:3637:GLY:N	2.22	0.70
1:A:3762:GLN:O	1:A:3765:GLU:HG2	1.92	0.70
1:F:2537:ASP:HA	1:F:2540:LEU:HD12	1.74	0.70
1:F:3580:ASN:HD21	1:F:3677:PRO:HD3	1.55	0.70
1:A:70:ARG:HH12	1:A:72:SER:HA	1.56	0.69
1:A:2918:PRO:HB2	1:A:2922:ARG:HH22	1.57	0.69
1:A:3319:ASN:O	1:A:3322:ALA:N	2.21	0.69
1:F:3973:PRO:O	1:F:3975:LYS:NZ	2.21	0.69
1:A:289:ASN:OD1	1:A:293:LEU:N	2.25	0.69
1:A:1085:ILE:HG22	1:A:1089:PHE:HB2	1.73	0.69
1:A:2122:LEU:HA	1:A:2126:MET:HE3	1.74	0.69
1:A:2357:GLU:O	1:A:2361:ILE:HD12	1.92	0.69
2:B:278:GLN:OE1	3:C:431:ARG:NH1	2.24	0.69
1:F:76:ILE:O	1:F:80:GLU:HG3	1.93	0.69
1:F:332:GLU:HG2	1:F:334:HIS:H	1.57	0.69
1:F:2806:LYS:HB2	1:F:2857:CYS:HB2	1.74	0.69
1:F:2935:GLU:OE1	1:F:2935:GLU:N	2.25	0.69
2:G:269:ILE:HA	2:G:375:VAL:HG11	1.75	0.69
1:A:2220:MET:O	1:A:2259:LYS:NZ	2.23	0.69
3:C:184:ARG:NH2	3:C:518:PRO:O	2.26	0.69
1:F:630:CYS:SG	1:F:631:ARG:N	2.65	0.69
1:F:1327:GLY:O	1:F:1331:ASN:N	2.23	0.69
1:F:1602:ASP:OD1	1:F:1603:GLN:N	2.25	0.69
1:F:1854:ARG:HB3	1:F:1863:PHE:HE1	1.55	0.69
1:F:3855:TYR:HA	1:F:3858:MET:HE2	1.73	0.69
1:F:115:TYR:HE1	1:F:127:ALA:HA	1.57	0.69
1:A:2514:ASN:HB3	1:A:2517:LEU:HG	1.73	0.69
2:B:318:ARG:HB3	3:C:276:TRP:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3813:LYS:HD3	1:F:3925:LEU:HD22	1.74	0.69
1:A:776:TRP:O	1:A:780:ILE:N	2.24	0.69
2:B:482:VAL:HG22	3:C:333:TYR:HD1	1.56	0.69
1:F:125:ILE:HA	1:F:128:LEU:HD13	1.74	0.69
1:F:2965:TYR:HB3	1:F:3001:CYS:HB2	1.74	0.69
1:F:3182:ILE:HG13	1:F:3183:ILE:HD12	1.75	0.69
1:A:1946:ASN:HA	1:A:1949:ILE:HD12	1.74	0.69
2:B:350:PHE:CD2	3:C:458:ILE:HA	2.28	0.69
1:F:87:LYS:HE2	1:F:830:VAL:HA	1.74	0.69
2:G:45:SER:HA	2:G:138:GLY:HA2	1.75	0.69
7:E:38:DT:H2"	7:E:39:DA:N7	2.08	0.69
1:A:256:ILE:HD11	3:C:551:GLN:HB3	1.74	0.69
1:A:407:VAL:HA	1:A:410:MET:HG2	1.73	0.69
1:A:2228:ARG:O	1:A:2232:ARG:N	2.22	0.69
1:A:2295:GLN:NE2	1:A:2297:SER:OG	2.21	0.69
1:A:2908:LYS:NZ	1:A:2911:ARG:O	2.25	0.69
1:F:1365:ASN:OD1	1:F:1370:ARG:NH2	2.26	0.69
1:F:2376:ASP:H	1:F:2404:ARG:NH2	1.91	0.69
1:F:3965:ARG:O	1:F:3969:ASN:N	2.25	0.69
2:G:32:TYR:N	2:G:253:LYS:O	2.24	0.69
2:G:40:PHE:HB2	2:G:85:VAL:HG12	1.72	0.69
2:G:412:ALA:O	2:G:435:VAL:N	2.25	0.69
3:H:674:PHE:HB2	3:H:675:TRP:CE3	2.28	0.69
1:A:3471:ILE:HA	1:A:3474:ARG:HG2	1.75	0.69
2:B:482:VAL:HG22	3:C:333:TYR:CD1	2.27	0.69
3:C:352:GLN:HG3	3:C:354:ARG:H	1.57	0.69
1:F:3037:GLN:HA	1:F:3040:TYR:HD2	1.56	0.69
3:H:247:TRP:HB3	3:H:263:ALA:HB3	1.72	0.69
1:A:2173:ALA:HA	1:A:2215:LEU:HD21	1.72	0.69
1:A:2940:ARG:HB3	1:A:2957:LEU:HD11	1.73	0.69
3:C:154:LEU:HD13	3:C:215:LEU:HB2	1.75	0.69
3:C:155:LYS:HE3	3:C:156:LYS:HE3	1.73	0.69
1:F:1298:LEU:HD23	1:F:1367:HIS:HD2	1.57	0.69
1:F:3859:TYR:O	1:F:4119:ARG:NH2	2.26	0.69
2:G:328:ILE:HD12	3:H:279:VAL:HG21	1.75	0.69
1:A:750:PRO:HA	1:A:753:GLN:HB2	1.74	0.68
1:A:3543:LYS:HB3	1:A:3548:GLY:HA3	1.75	0.68
1:F:2414:GLN:OE1	1:F:2414:GLN:N	2.20	0.68
1:F:2587:GLN:N	1:F:2777:HIS:O	2.22	0.68
1:A:878:GLU:O	1:A:882:SER:N	2.26	0.68
1:A:1112:ALA:O	1:A:1115:HIS:ND1	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2329:TYR:CE1	1:A:2332:GLU:HA	2.29	0.68
2:G:288:LEU:N	3:H:311:ILE:O	2.27	0.68
2:G:358:LYS:HE2	3:H:353:ARG:HH22	1.57	0.68
1:A:2430:GLU:HA	1:A:2433:LYS:HE3	1.75	0.68
1:A:2510:LEU:O	1:A:2518:GLN:NE2	2.26	0.68
3:C:456:ALA:HB3	3:C:533:ILE:HD11	1.74	0.68
1:F:1366:THR:O	1:F:1370:ARG:NH1	2.23	0.68
1:F:2555:LEU:HD21	1:F:2806:LYS:HB3	1.75	0.68
1:F:3722:PHE:HE1	1:F:3740:ILE:HG13	1.57	0.68
1:F:3750:PHE:HA	1:F:3805:TRP:H	1.58	0.68
3:H:165:LEU:H	3:H:226:SER:HA	1.57	0.68
3:H:717:ALA:HB3	3:H:723:GLY:HA2	1.75	0.68
1:F:3846:MET:HB2	1:F:3858:MET:HG3	1.74	0.68
3:H:653:GLN:OE1	3:H:657:ASN:ND2	2.26	0.68
1:A:99:LYS:NZ	1:A:141:SER:O	2.23	0.68
1:A:197:PHE:HE1	1:A:231:LEU:HD22	1.58	0.68
1:A:1215:GLU:O	1:A:1219:PHE:N	2.27	0.68
1:A:1496:GLU:OE1	1:A:1498:GLN:NE2	2.27	0.68
1:A:1756:PRO:HA	1:A:1759:LEU:HB3	1.75	0.68
3:C:57:VAL:HG12	3:C:79:VAL:HG12	1.76	0.68
3:C:197:ILE:HD12	3:C:201:GLN:HB2	1.76	0.68
3:C:618:ASN:OD1	3:C:619:HIS:ND1	2.25	0.68
5:I:41:DT:H2"	5:I:42:DA:C8	2.29	0.68
1:A:628:GLU:O	1:A:631:ARG:HG3	1.94	0.68
1:A:2184:TYR:O	1:A:2187:VAL:N	2.26	0.68
1:A:2920:VAL:HA	1:A:2923:TRP:HB2	1.74	0.68
1:A:3101:TYR:HA	1:A:3104:GLN:HG2	1.76	0.68
1:A:3723:ASP:HB2	1:A:3739:ILE:HB	1.75	0.68
1:F:1497:ARG:NH2	1:F:1539:SER:O	2.27	0.68
1:F:3728:VAL:HG13	1:F:3736:LYS:HE3	1.75	0.68
1:A:785:MET:HA	1:A:788:TYR:HD2	1.58	0.68
1:F:3762:GLN:NE2	1:F:3793:VAL:O	2.27	0.68
1:A:2855:VAL:HG22	1:A:2859:GLN:HE22	1.58	0.68
1:A:183:GLU:HG2	1:A:185:HIS:H	1.59	0.68
1:F:935:HIS:O	1:F:938:VAL:HG12	1.94	0.68
1:F:3575:LEU:HB2	1:F:3800:LEU:HD21	1.76	0.68
3:H:67:PRO:HG2	3:H:117:VAL:HG12	1.75	0.68
1:A:4114:PRO:HA	1:A:4117:LEU:HB2	1.76	0.68
1:F:1600:MET:O	1:F:1603:GLN:NE2	2.24	0.68
1:F:2266:ASN:OD1	1:F:2311:ARG:NE	2.27	0.68
1:F:2506:LEU:HB3	1:F:2525:TRP:CH2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:549:THR:O	3:H:551:GLN:N	2.27	0.68
7:E:36:DA:H2"	7:E:37:DT:H5"	1.75	0.68
1:A:82:ARG:HD2	1:A:82:ARG:N	2.09	0.67
1:A:358:GLU:O	1:A:361:ILE:N	2.27	0.67
1:A:449:TYR:CD2	1:A:453:MET:HE3	2.29	0.67
1:A:1576:ASP:OD1	1:A:1577:LEU:N	2.26	0.67
1:A:2796:ALA:O	1:A:2799:GLN:NE2	2.27	0.67
2:B:262:LYS:HB3	2:B:268:VAL:HG12	1.76	0.67
1:F:2169:LEU:HD23	1:F:2208:ASP:HB2	1.76	0.67
2:G:335:GLU:HA	2:G:338:LYS:HE2	1.74	0.67
1:A:2512:ASP:HB2	1:A:2517:LEU:HD12	1.75	0.67
1:F:2490:GLU:OE2	1:F:2495:SER:N	2.25	0.67
1:F:3765:GLU:HA	1:F:3768:PHE:HD2	1.59	0.67
3:H:165:LEU:HG	3:H:167:PHE:H	1.59	0.67
3:H:687:THR:HA	3:H:699:GLU:HG2	1.76	0.67
1:A:515:ARG:NH1	1:A:516:THR:O	2.27	0.67
1:A:1663:THR:O	1:A:1665:HIS:ND1	2.27	0.67
1:A:1915:LEU:HG	1:A:1918:LEU:HD12	1.76	0.67
3:C:485:PRO:HA	3:C:488:GLN:HE22	1.58	0.67
1:F:584:GLU:N	1:F:613:HIS:O	2.27	0.67
1:F:794:PRO:HA	1:F:870:LEU:HD12	1.76	0.67
3:H:11:VAL:HG12	3:H:132:ILE:HA	1.74	0.67
1:A:2371:PHE:HD2	1:A:2374:LEU:HB2	1.59	0.67
1:A:2801:ASP:OD2	1:A:2804:ILE:N	2.20	0.67
1:A:3849:LYS:HG2	1:A:3851:ASP:H	1.59	0.67
1:F:2304:VAL:HB	1:F:2348:GLN:HG3	1.77	0.67
1:F:2821:ASP:O	1:F:2829:LYS:NZ	2.28	0.67
3:H:13:CYS:HB3	3:H:134:ILE:HA	1.76	0.67
1:A:1729:PHE:HB3	1:A:1733:THR:HG21	1.75	0.67
3:C:316:TYR:N	3:C:319:ASP:O	2.20	0.67
1:F:399:GLN:OE1	1:F:399:GLN:N	2.27	0.67
1:F:1811:ARG:NH1	3:H:627:ASN:OD1	2.25	0.67
1:F:4116:ILE:HA	1:F:4119:ARG:HB2	1.77	0.67
2:G:362:LEU:HD12	2:G:436:PHE:HE2	1.60	0.67
1:A:1829:TRP:O	1:A:1883:ARG:NH1	2.27	0.67
1:A:2324:GLY:HA2	1:A:2327:LEU:HD12	1.76	0.67
1:A:2365:ASN:HB3	1:A:2366:LYS:NZ	2.09	0.67
1:F:893:SER:HA	1:F:906:PHE:HA	1.76	0.67
1:F:1713:VAL:O	1:F:1716:GLN:NE2	2.28	0.67
1:F:3454:LEU:HD21	1:F:3495:PHE:HZ	1.59	0.67
1:A:1445:ARG:HA	1:A:1448:LEU:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2330:VAL:HG23	1:A:2335:ASN:O	1.94	0.67
2:B:121:GLN:NE2	2:B:126:GLN:OE1	2.27	0.67
1:F:886:TRP:CD2	1:F:964:ARG:HD2	2.29	0.67
2:G:273:ILE:CB	2:G:368:VAL:HG22	2.24	0.67
1:F:326:MET:O	1:F:330:ASN:N	2.28	0.67
1:F:1892:LYS:O	1:F:1909:ASN:ND2	2.28	0.67
3:H:59:PHE:HB2	3:H:105:ALA:HB3	1.75	0.67
3:H:686:ILE:HG21	3:H:703:LYS:HB3	1.77	0.67
1:A:113:SER:HB2	3:C:300:ASP:HB2	1.77	0.67
1:A:2534:ASN:O	1:A:2538:ARG:N	2.22	0.67
1:A:2962:ARG:HD3	1:A:3989:ARG:HH22	1.60	0.67
1:F:1087:ARG:HA	1:F:1090:ARG:HE	1.59	0.67
1:F:1684:LEU:O	1:F:1689:LYS:NZ	2.28	0.67
1:F:2234:ASN:HA	1:F:2237:ILE:HD12	1.77	0.67
1:F:3950:THR:OG1	1:F:4068:HIS:ND1	2.28	0.67
1:A:3334:TYR:HE2	1:A:3384:HIS:CE1	2.14	0.67
1:F:2103:HIS:O	1:F:2107:SER:N	2.28	0.67
1:F:2543:ASN:ND2	1:F:2839:ASP:OD2	2.28	0.67
2:G:327:ILE:HG22	2:G:329:LEU:HD23	1.77	0.67
2:G:470:ARG:HE	3:H:346:CYS:HA	1.60	0.67
1:A:450:SER:O	1:A:453:MET:HG3	1.95	0.66
4:J:36:DG:N2	5:I:21:DA:OP1	2.24	0.66
1:A:1071:ASN:HD21	1:A:1073:PHE:HB2	1.60	0.66
1:F:926:THR:HG23	1:F:2800:ARG:HH21	1.59	0.66
1:F:2448:PRO:HA	1:F:2451:LEU:HD12	1.77	0.66
3:H:32:GLU:HA	3:H:35:LYS:HE3	1.77	0.66
6:D:32:DT:N3	7:E:24:DA:N6	2.32	0.66
1:A:403:GLY:O	1:A:406:ARG:NH2	2.28	0.66
1:A:3772:ASN:HD21	1:A:3788:LEU:HB3	1.61	0.66
1:F:1082:PHE:O	1:F:1086:TYR:N	2.28	0.66
3:H:81:ARG:NH1	3:H:82:HIS:O	2.28	0.66
1:A:66:LEU:O	1:A:70:ARG:HG2	1.95	0.66
1:A:1708:GLU:HB2	1:A:1712:ARG:NH1	2.11	0.66
1:A:2805:ALA:HA	1:A:2808:LEU:HD12	1.77	0.66
1:A:3190:LEU:HG	1:A:3231:ILE:HG23	1.77	0.66
2:B:450:GLU:HA	3:C:416:TYR:CE1	2.31	0.66
1:F:559:SER:O	1:F:562:HIS:ND1	2.29	0.66
3:H:342:VAL:HA	3:H:393:VAL:HA	1.77	0.66
1:A:20:SER:HB2	1:A:69:VAL:HG11	1.76	0.66
1:A:675:ARG:O	1:A:679:LYS:HG2	1.95	0.66
1:A:1108:MET:HA	1:A:1111:LEU:HD12	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1899:VAL:HB	1:A:1911:LEU:HB3	1.77	0.66
1:A:3066:ASP:O	1:A:3070:HIS:ND1	2.28	0.66
1:F:3831:ASP:HB3	1:F:3832:PRO:HD3	1.77	0.66
3:H:41:PHE:HA	3:H:44:ARG:NH1	2.10	0.66
3:H:497:ARG:NH1	3:H:503:GLU:O	2.28	0.66
1:A:548:GLU:OE1	1:A:550:PHE:N	2.27	0.66
1:A:2230:VAL:O	1:A:2234:ASN:N	2.22	0.66
1:A:3796:MET:H	1:A:3801:GLY:HA2	1.61	0.66
1:F:1976:LEU:HD23	1:F:2142:ILE:HG13	1.78	0.66
1:F:2532:PRO:HD2	1:F:2538:ARG:HA	1.76	0.66
1:F:2884:LEU:HA	1:F:2886:GLN:HE22	1.61	0.66
2:G:356:LEU:HD11	3:H:353:ARG:HE	1.61	0.66
1:A:4037:ASN:ND2	1:A:4066:LEU:O	2.29	0.66
3:C:144:LYS:HE3	3:C:207:ILE:HD11	1.77	0.66
1:F:339:GLN:HE21	3:H:566:LYS:H	1.43	0.66
1:F:1039:TRP:HA	1:F:1042:LYS:HB2	1.77	0.66
1:A:435:LEU:HD23	1:A:438:LEU:HD12	1.78	0.66
1:A:4012:ASP:OD1	1:A:4013:TRP:N	2.29	0.66
3:C:154:LEU:HB2	3:C:215:LEU:HD13	1.77	0.66
2:G:450:GLU:HG3	3:H:415:ASN:HB3	1.76	0.66
6:D:19:DA:N6	7:E:39:DA:N1	2.43	0.66
1:A:105:VAL:O	1:A:109:ASN:ND2	2.28	0.66
1:A:270:ALA:HA	1:A:273:ARG:HE	1.61	0.66
1:A:1366:THR:HG22	1:A:1367:HIS:HD2	1.61	0.66
1:A:3139:GLN:HA	1:A:3142:ILE:HD12	1.77	0.66
3:C:513:TRP:O	3:C:517:ASN:N	2.28	0.66
1:F:99:LYS:O	1:F:99:LYS:HD2	1.96	0.66
1:F:3681:LYS:HG2	1:F:3724:GLU:HA	1.78	0.66
1:A:2329:TYR:HE1	1:A:2332:GLU:HA	1.60	0.66
2:B:507:THR:HG23	2:B:508:LEU:HD12	1.77	0.66
1:F:970:LEU:HB3	1:F:1025:LEU:HD11	1.78	0.66
1:F:1404:LYS:HA	1:F:1407:LYS:HZ3	1.60	0.66
3:H:182:PRO:HD2	3:H:521:GLU:HG3	1.77	0.66
1:A:367:GLY:HA3	1:A:416:SER:HB3	1.77	0.65
1:A:1685:ASP:H	1:A:1688:LEU:HD12	1.61	0.65
1:A:2505:VAL:HA	1:A:2508:GLN:HB2	1.76	0.65
1:A:2974:GLU:O	1:A:2978:LYS:N	2.30	0.65
1:A:3176:MET:HE3	1:A:3179:TRP:HB3	1.77	0.65
1:F:4027:TRP:NE1	1:F:4030:GLU:OE1	2.28	0.65
1:A:91:ILE:HD11	1:A:831:LEU:HD23	1.77	0.65
1:A:822:ALA:HA	1:A:828:LYS:HD3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1345:THR:HA	1:A:1348:LEU:HD12	1.78	0.65
1:A:3231:ILE:HG22	1:A:3235:LYS:NZ	2.11	0.65
1:A:3385:LEU:HB3	1:A:3416:LEU:HD22	1.78	0.65
1:F:1486:LEU:HA	1:F:1490:GLY:HA3	1.78	0.65
1:F:1892:LYS:NZ	1:F:1906:THR:O	2.28	0.65
1:F:3572:ILE:HG23	1:F:3800:LEU:HD23	1.79	0.65
1:F:3918:LEU:O	1:F:3946:PHE:N	2.27	0.65
2:G:75:ILE:HD13	2:G:116:ILE:HD11	1.77	0.65
3:H:312:GLN:O	3:H:323:PHE:N	2.22	0.65
3:H:329:GLU:HA	3:H:332:LYS:HE2	1.78	0.65
3:H:512:ILE:O	3:H:516:LEU:N	2.26	0.65
1:A:889:GLU:HB2	1:A:891:ARG:HH11	1.61	0.65
1:A:1045:THR:OG1	1:A:1047:GLN:NE2	2.29	0.65
1:A:1048:GLN:HA	1:A:1051:LYS:HD3	1.78	0.65
1:A:1147:LYS:NZ	1:A:1148:ALA:O	2.29	0.65
1:A:3046:ARG:HB3	1:A:3050:LYS:HZ1	1.59	0.65
2:B:425:ILE:HG22	2:B:427:VAL:HG13	1.79	0.65
2:B:450:GLU:OE2	3:C:413:LYS:NZ	2.27	0.65
1:F:1060:PHE:HA	1:F:1063:LEU:HD12	1.79	0.65
2:G:85:VAL:HG22	2:G:106:GLN:HE22	1.60	0.65
3:H:127:PHE:O	3:H:130:ARG:NH1	2.29	0.65
1:A:1799:GLU:HA	1:A:1802:TYR:HB3	1.78	0.65
2:B:297:LYS:HB3	3:C:298:ASN:HD21	1.61	0.65
1:F:313:LEU:HD21	1:F:357:LYS:NZ	2.12	0.65
1:F:1020:PRO:O	1:F:1026:ARG:NH2	2.29	0.65
1:F:3894:PRO:HA	1:F:3897:PHE:HB3	1.78	0.65
2:G:51:SER:HA	2:G:58:THR:HA	1.78	0.65
1:A:1131:ILE:HG23	1:A:1190:LEU:HD21	1.78	0.65
1:A:1407:LYS:HZ2	1:A:1412:LYS:HG2	1.62	0.65
1:A:2379:MET:HB3	1:A:2383:PHE:CE2	2.31	0.65
1:A:3903:HIS:ND1	1:A:3934:THR:O	2.30	0.65
1:F:708:VAL:HG12	1:F:712:LYS:NZ	2.11	0.65
1:F:1485:SER:O	1:F:1490:GLY:N	2.29	0.65
1:F:3051:LEU:HA	1:F:3054:GLN:HE22	1.62	0.65
1:F:3360:LEU:HD11	1:F:3377:LEU:HD11	1.77	0.65
1:F:3828:TYR:HE2	1:F:3879:PRO:HD3	1.61	0.65
2:G:204:HIS:CD2	2:G:213:ILE:HB	2.30	0.65
6:D:15:DA:H2	7:E:42:DA:H61	1.45	0.65
1:A:70:ARG:NH1	1:A:72:SER:HA	2.10	0.65
1:A:346:TYR:CZ	1:A:350:ARG:HD2	2.32	0.65
1:F:1804:MET:HA	1:F:1807:LYS:HG3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:PHE:N	1:A:447:PRO:HD2	2.01	0.65
1:A:586:GLN:HE21	1:A:602:MET:HA	1.62	0.65
1:A:1735:ARG:NH2	1:A:1738:ASN:OD1	2.28	0.65
1:A:3765:GLU:HA	1:A:3768:PHE:CD2	2.32	0.65
1:F:372:PRO:HA	1:F:375:VAL:HB	1.77	0.65
1:A:2291:GLN:HE22	1:A:2295:GLN:HA	1.60	0.65
1:A:2944:THR:HA	1:A:2948:GLY:HA3	1.77	0.65
1:F:104:SER:HA	1:F:107:ILE:HG12	1.77	0.65
1:F:1735:ARG:HA	1:F:1738:ASN:HD21	1.62	0.65
2:G:49:PHE:CE2	2:G:128:GLN:HB2	2.31	0.65
2:G:114:LYS:HA	2:G:117:LEU:HD12	1.77	0.65
2:G:286:ILE:O	3:H:313:GLY:N	2.29	0.65
3:H:15:ASP:HB2	3:H:20:MET:SD	2.36	0.65
3:H:57:VAL:HA	3:H:79:VAL:HA	1.79	0.65
6:D:16:DA:N6	7:E:42:DA:N1	2.45	0.65
1:A:449:TYR:HB2	1:A:453:MET:SD	2.37	0.65
1:A:3144:PHE:HA	1:A:3150:ASN:HD22	1.61	0.65
1:A:3950:THR:O	1:A:4068:HIS:ND1	2.30	0.65
2:B:288:LEU:N	3:C:311:ILE:O	2.29	0.65
3:C:80:HIS:O	3:C:81:ARG:NH1	2.29	0.65
1:F:832:LYS:O	1:F:833:HIS:ND1	2.30	0.65
1:F:1413:ASP:OD1	1:F:1414:ILE:HD12	1.96	0.65
1:F:1854:ARG:HH12	3:H:725:VAL:HG11	1.62	0.65
1:A:1427:SER:HA	1:A:1430:GLU:HB2	1.79	0.65
1:A:2480:ILE:HA	1:A:2483:ASN:HD21	1.61	0.65
1:A:3831:ASP:HA	1:A:3835:PRO:HD2	1.76	0.65
2:B:483:LEU:HG	2:B:487:PHE:HE2	1.60	0.65
3:C:9:ALA:N	3:C:129:LYS:O	2.28	0.65
1:F:850:GLU:HA	1:F:853:ILE:HD12	1.78	0.65
1:F:1169:VAL:HG21	1:F:1198:LEU:HD21	1.79	0.65
3:H:148:ASP:OD1	3:H:149:ILE:N	2.30	0.65
1:A:974:CYS:HA	1:A:1028:PHE:CE2	2.27	0.64
1:A:3654:MET:HG2	1:A:3659:PHE:HB2	1.79	0.64
1:F:313:LEU:HD11	1:F:357:LYS:HD3	1.79	0.64
1:F:958:MET:HG3	1:F:961:LEU:HD12	1.78	0.64
1:F:3585:PHE:HA	1:F:3613:MET:HE1	1.77	0.64
1:A:392:CYS:SG	1:A:393:LYS:N	2.70	0.64
1:A:1104:LEU:HD11	1:A:1134:LEU:HD21	1.79	0.64
1:A:3692:VAL:HA	1:A:3696:ARG:HH22	1.62	0.64
2:B:514:MET:HA	2:B:517:ARG:HB3	1.79	0.64
1:F:850:GLU:OE1	1:F:850:GLU:N	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1257:LEU:HD22	1:F:1337:VAL:HG21	1.78	0.64
1:F:3499:ILE:HG23	1:F:3529:ILE:HG12	1.79	0.64
2:G:403:ARG:HE	5:I:31:DA:H4'	1.62	0.64
2:G:425:ILE:HG22	2:G:427:VAL:HG13	1.78	0.64
1:A:22:ALA:O	1:A:33:GLN:NE2	2.31	0.64
1:A:1504:ASP:O	1:A:1508:LYS:N	2.28	0.64
1:A:1506:SER:HA	1:A:1509:GLN:HE21	1.62	0.64
1:A:2390:HIS:N	1:A:2394:LYS:HZ1	1.95	0.64
2:B:372:GLU:OE2	2:B:378:SER:N	2.30	0.64
1:F:1799:GLU:OE2	1:F:1806:ARG:NH2	2.24	0.64
1:F:2586:PHE:HB2	1:F:2776:ARG:HE	1.60	0.64
1:F:3001:CYS:HA	1:F:3004:HIS:HB2	1.78	0.64
1:A:741:ILE:HG22	1:A:745:VAL:HG12	1.79	0.64
1:A:1696:LEU:HA	1:A:1699:PHE:HB2	1.79	0.64
1:A:1776:GLU:HG3	1:A:1777:LEU:HD12	1.78	0.64
1:A:3496:ILE:HG21	1:A:3707:GLY:H	1.61	0.64
1:A:3931:ALA:N	1:A:3936:GLY:O	2.20	0.64
2:B:484:GLN:HA	2:B:487:PHE:HD2	1.61	0.64
1:F:387:GLU:HG3	1:F:388:LEU:HD12	1.79	0.64
1:F:1298:LEU:HG	1:F:1367:HIS:HB2	1.79	0.64
1:F:3462:ARG:O	1:F:3498:TRP:NE1	2.31	0.64
1:A:930:ALA:HA	1:A:933:LEU:HD12	1.79	0.64
2:B:270:SER:H	2:B:375:VAL:HB	1.62	0.64
1:F:1172:LEU:O	1:F:1176:CYS:N	2.31	0.64
1:F:1494:GLY:H	1:F:1538:LEU:HD11	1.62	0.64
1:A:1007:VAL:HA	1:A:1010:LEU:HD12	1.79	0.64
1:A:1893:GLU:HG2	1:A:1894:SER:H	1.62	0.64
1:A:3033:GLU:HG2	1:A:3034:PRO:HD3	1.79	0.64
1:A:3251:ASN:HD21	1:A:3254:LEU:HB3	1.62	0.64
1:A:3283:LEU:HD21	1:A:3287:ARG:HH21	1.62	0.64
1:F:180:LEU:HG	1:F:182:GLY:H	1.63	0.64
1:F:749:VAL:HA	1:F:752:LEU:HD12	1.80	0.64
1:F:771:ASN:OD1	1:F:854:ARG:NH2	2.31	0.64
1:F:2313:LYS:HA	1:F:2316:TYR:CZ	2.33	0.64
1:F:2464:HIS:HD2	1:F:2466:SER:HB3	1.61	0.64
3:H:16:VAL:HB	3:H:58:LEU:HD11	1.79	0.64
3:H:28:GLU:OE1	3:H:36:LYS:NZ	2.22	0.64
3:H:266:SER:OG	3:H:363:LYS:NZ	2.23	0.64
6:D:20:DT:H2"	6:D:21:DA:C5	2.33	0.64
1:A:305:ASN:HD21	1:A:307:GLU:HG2	1.61	0.64
1:A:1407:LYS:HD3	1:A:1412:LYS:HZ2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2335:ASN:HD21	1:A:2337:LEU:HD12	1.63	0.64
1:A:3499:ILE:HG21	1:A:3529:ILE:HG23	1.79	0.64
1:A:78:PHE:O	1:A:82:ARG:NH1	2.30	0.64
1:A:2183:HIS:HB2	1:A:2185:MET:HG3	1.80	0.64
3:C:144:LYS:NZ	3:C:203:GLU:OE1	2.27	0.64
3:C:279:VAL:HG12	3:C:286:LYS:HD3	1.80	0.64
1:F:440:VAL:HA	1:F:443:ILE:HD12	1.79	0.64
1:F:3126:LEU:O	1:F:3129:LEU:N	2.31	0.64
2:G:422:ASP:OD1	2:G:423:GLN:N	2.30	0.64
1:A:3071:GLY:O	1:A:3074:GLN:NE2	2.31	0.64
1:F:892:LEU:HG	1:F:907:LEU:HB2	1.78	0.64
1:A:408:TYR:HA	1:A:449:TYR:CE2	2.33	0.64
1:A:2791:ILE:HG23	1:A:2794:LEU:HD22	1.78	0.64
3:C:272:VAL:HG12	3:C:274:LYS:H	1.62	0.64
3:C:652:GLU:HA	3:C:655:PHE:HB3	1.79	0.64
1:F:1574:ASN:ND2	1:F:1578:ALA:H	1.96	0.64
1:F:1829:TRP:HA	1:F:1883:ARG:HH12	1.63	0.64
3:H:12:LEU:HD12	3:H:56:LEU:HB2	1.78	0.64
1:A:449:TYR:CB	1:A:453:MET:SD	2.86	0.63
1:A:1684:LEU:HD11	1:A:1689:LYS:HB3	1.80	0.63
1:A:3311:ASN:ND2	1:A:3315:TYR:OH	2.28	0.63
1:A:3380:ARG:HA	1:A:3383:GLN:HG3	1.80	0.63
1:F:1500:LEU:HD12	1:F:1501:PRO:HD2	1.80	0.63
3:H:352:GLN:H	3:H:355:PHE:HD1	1.44	0.63
1:A:1623:LEU:HB3	1:A:1667:SER:HB2	1.78	0.63
1:A:3352:GLU:O	1:A:3357:ARG:NH2	2.31	0.63
3:C:688:LYS:NZ	3:C:699:GLU:OE1	2.31	0.63
1:F:891:ARG:HH21	1:F:960:GLN:HE22	1.44	0.63
1:F:1457:GLN:HB3	1:F:1460:ARG:HH21	1.62	0.63
1:A:1476:HIS:HB2	1:A:1524:LEU:HD11	1.80	0.63
1:A:2801:ASP:HB3	1:A:2804:ILE:HG12	1.79	0.63
1:A:3616:ALA:O	1:A:3633:ILE:HG22	1.98	0.63
1:A:3812:LEU:HG	1:A:3816:LEU:HG	1.80	0.63
1:F:1041:ILE:HD11	1:F:1046:PRO:HA	1.80	0.63
1:F:1468:LEU:HG	1:F:1470:SER:H	1.63	0.63
1:F:2133:LEU:HD23	1:F:2146:LEU:HD11	1.81	0.63
1:F:2373:PRO:HA	1:F:2404:ARG:CZ	2.29	0.63
1:F:3467:ARG:HH12	1:F:3471:ILE:HB	1.64	0.63
1:A:28:ALA:HA	1:A:77:GLU:OE2	1.98	0.63
1:A:1136:ARG:HG3	1:A:1140:LYS:HZ3	1.63	0.63
1:A:1413:ASP:OD1	1:A:1414:ILE:N	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1766:LEU:O	1:A:1822:ARG:NH1	2.32	0.63
2:B:126:GLN:O	2:B:130:ARG:HG3	1.99	0.63
1:F:1489:LYS:HD3	1:F:1492:ALA:HB3	1.80	0.63
1:F:1937:ARG:O	1:F:1941:HIS:ND1	2.30	0.63
1:F:3034:PRO:HB2	1:F:3037:GLN:HB2	1.80	0.63
1:F:3413:TYR:HD2	1:F:3453:ALA:HB2	1.63	0.63
1:A:81:CYS:HB2	1:A:82:ARG:NH1	2.13	0.63
1:A:1202:ARG:NH2	1:A:1210:ASP:HB2	2.13	0.63
1:A:3089:LEU:O	1:A:3093:GLN:N	2.28	0.63
1:F:90:CYS:SG	1:F:133:LYS:NZ	2.64	0.63
1:F:2866:ALA:HA	1:F:2869:LEU:HB2	1.80	0.63
1:F:3738:ILE:N	1:F:3750:PHE:O	2.21	0.63
1:F:3742:GLY:N	1:F:3746:ARG:O	2.32	0.63
3:H:679:VAL:HG11	3:H:705:LEU:HD21	1.80	0.63
1:A:214:GLU:O	1:A:216:LYS:HG2	1.98	0.63
1:A:1139:GLU:HB2	1:A:1140:LYS:HZ2	1.63	0.63
1:A:1483:LEU:HD11	1:A:1518:ALA:HB1	1.81	0.63
1:A:2155:GLU:HA	1:A:2158:ARG:HG2	1.79	0.63
3:C:296:CYS:HA	3:C:304:GLU:HA	1.80	0.63
1:F:2102:LYS:O	1:F:2106:ARG:HD3	1.98	0.63
1:F:2575:PRO:HA	1:F:2786:LYS:HA	1.79	0.63
1:F:2578:GLU:O	1:F:2784:GLN:NE2	2.28	0.63
2:G:400:TYR:N	2:G:409:TYR:O	2.30	0.63
1:A:452:LYS:HA	1:A:455:LEU:HD12	1.81	0.63
1:A:1519:PHE:CD1	1:A:1570:GLU:HG3	2.34	0.63
1:A:2573:PRO:HA	1:A:2786:LYS:HB3	1.81	0.63
1:A:2791:ILE:HA	1:A:2794:LEU:HD13	1.81	0.63
1:A:2939:LEU:O	1:A:2942:ILE:CG2	2.47	0.63
3:C:234:LEU:HG	3:C:237:PHE:HB2	1.80	0.63
1:F:1023:SER:HA	1:F:1026:ARG:HB2	1.80	0.63
1:F:3821:SER:HB3	1:F:3824:GLU:HB3	1.79	0.63
3:H:294:VAL:HA	3:H:307:LYS:HE3	1.80	0.63
1:A:61:ARG:NH1	1:A:62:ASP:OD1	2.31	0.63
1:A:1986:ARG:HA	1:A:2184:TYR:HD2	1.64	0.63
1:A:2453:GLU:OE1	1:A:2453:GLU:N	2.31	0.63
2:B:51:SER:HA	2:B:58:THR:HA	1.79	0.63
2:B:87:PHE:HB2	2:B:103:TYR:HB3	1.80	0.63
2:B:340:PHE:HB2	3:C:486:ARG:HH12	1.64	0.63
2:B:412:ALA:O	2:B:435:VAL:N	2.32	0.63
1:F:13:LEU:O	1:F:16:GLN:N	2.32	0.63
1:F:1298:LEU:HA	1:F:1367:HIS:CD2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1423:ILE:HG13	1:F:1425:ALA:H	1.63	0.63
1:F:1444:ASP:OD1	1:F:1445:ARG:N	2.32	0.63
1:F:1786:ALA:H	1:F:1830:HIS:HE1	1.47	0.63
1:F:2193:ILE:HG22	1:F:2194:LEU:HD22	1.81	0.63
1:F:3593:ARG:NH1	1:F:3657:SER:OG	2.30	0.63
2:G:484:GLN:O	2:G:488:ARG:HG2	1.98	0.63
1:A:2351:GLN:HB3	1:A:2356:MET:HB2	1.81	0.63
1:A:2910:VAL:HA	1:A:2915:ARG:HD3	1.81	0.63
2:B:36:ASP:OD1	2:B:37:SER:N	2.32	0.63
1:F:2548:PRO:HG3	1:F:2846:THR:HG22	1.81	0.63
2:G:276:LEU:HD11	2:G:367:PHE:HB2	1.79	0.63
3:H:488:GLN:NE2	3:H:509:GLN:OE1	2.32	0.63
3:C:342:VAL:HG21	3:C:391:ALA:HB1	1.79	0.62
1:F:1115:HIS:CE1	1:F:1180:GLN:HB3	2.34	0.62
1:F:1459:HIS:HB2	1:F:1520:ALA:HB1	1.80	0.62
1:F:1703:THR:HG21	1:F:1707:LEU:HD21	1.81	0.62
1:F:2554:PHE:HD1	1:F:2557:LEU:HB2	1.64	0.62
1:F:3259:LEU:O	1:F:3276:TRP:NE1	2.26	0.62
1:A:1956:PHE:CE1	1:A:1958:GLU:HB3	2.34	0.62
1:A:3421:ASP:OD1	1:A:3425:ARG:NE	2.32	0.62
2:B:474:ARG:HE	2:B:476:ASP:H	1.47	0.62
1:F:3278:GLN:O	1:F:3282:ARG:HG2	1.99	0.62
1:F:3758:LEU:HB3	1:F:3762:GLN:HE22	1.64	0.62
2:G:289:TYR:HD2	2:G:292:THR:H	1.45	0.62
1:A:2573:PRO:O	1:A:2786:LYS:NZ	2.32	0.62
3:C:413:LYS:N	3:C:417:GLU:OE1	2.32	0.62
1:F:2125:TRP:O	1:F:2129:LEU:HG	1.98	0.62
2:G:362:LEU:HD12	2:G:436:PHE:CE2	2.34	0.62
3:H:377:LEU:HA	3:H:380:LEU:HD12	1.82	0.62
1:A:449:TYR:HB3	1:A:453:MET:CG	2.29	0.62
1:A:542:ASP:OD1	1:A:543:SER:N	2.30	0.62
1:A:2331:MET:N	1:A:2335:ASN:O	2.31	0.62
1:A:3270:ASP:OD1	1:A:3271:ASP:N	2.32	0.62
1:A:3413:TYR:HA	1:A:3449:LYS:NZ	2.14	0.62
2:B:297:LYS:HZ3	3:C:294:VAL:HG23	1.63	0.62
2:B:358:LYS:HB3	3:C:409:PHE:CE2	2.34	0.62
3:H:493:CYS:HB3	3:H:505:LEU:HD12	1.81	0.62
1:A:230:LEU:HD23	1:A:234:PHE:HZ	1.64	0.62
1:A:1329:ARG:HE	1:A:1332:TYR:HB3	1.63	0.62
1:A:2865:HIS:HB2	1:A:2868:LEU:HD13	1.81	0.62
3:C:282:LYS:HG3	3:C:283:THR:HG23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:497:ARG:NH1	3:C:503:GLU:O	2.32	0.62
1:F:560:LEU:O	1:F:564:LEU:HG	2.00	0.62
1:F:2228:ARG:HA	1:F:2232:ARG:HH12	1.64	0.62
1:F:3590:ASN:HA	1:F:4031:ILE:HD12	1.81	0.62
1:A:132:ILE:HA	1:A:135:LEU:HD12	1.82	0.62
1:A:449:TYR:CD2	1:A:453:MET:HE1	2.26	0.62
1:A:2310:VAL:HG22	1:A:2311:ARG:H	1.64	0.62
1:A:2384:PHE:HD2	1:A:2385:LEU:HD22	1.62	0.62
1:A:3374:ILE:HA	1:A:3377:LEU:HD12	1.81	0.62
1:F:399:GLN:HB3	1:F:403:GLY:H	1.65	0.62
1:F:2122:LEU:HB3	1:F:2127:LYS:N	2.14	0.62
1:F:3150:ASN:HA	1:F:3156:PRO:HG2	1.81	0.62
1:F:3177:ASN:OD1	1:F:3178:ILE:N	2.32	0.62
1:F:3511:ALA:HB1	1:F:3514:VAL:HB	1.80	0.62
1:F:3607:GLU:HA	1:F:3610:TYR:CZ	2.35	0.62
2:G:296:VAL:HG11	3:H:305:VAL:HG11	1.80	0.62
3:H:363:LYS:HE2	3:H:365:PHE:HZ	1.65	0.62
1:A:2539:LEU:HD23	1:A:2543:ASN:HD21	1.64	0.62
1:A:3046:ARG:HA	1:A:3049:LEU:HD12	1.82	0.62
1:A:3302:LYS:HD3	1:A:3333:THR:HG21	1.80	0.62
2:B:352:PRO:HA	2:B:394:VAL:HA	1.82	0.62
3:C:256:ASN:OD1	3:C:257:LEU:N	2.32	0.62
1:F:736:LEU:HB3	1:F:740:ILE:HG21	1.80	0.62
1:F:2439:ILE:HA	1:F:2442:MET:HG3	1.82	0.62
3:H:510:GLN:HA	3:H:513:TRP:CE3	2.34	0.62
4:J:15:DA:H5'	5:I:42:DA:C2	2.35	0.62
1:A:1820:VAL:HA	1:A:1824:LEU:HB2	1.82	0.62
1:A:3461:ALA:HA	1:A:3464:LYS:HD3	1.80	0.62
3:C:297:LEU:N	3:C:303:THR:O	2.23	0.62
1:F:289:ASN:O	1:F:293:LEU:N	2.22	0.62
1:F:1584:GLN:O	1:F:1587:VAL:HG12	2.00	0.62
1:F:2098:THR:O	1:F:2102:LYS:NZ	2.33	0.62
1:F:2345:VAL:HA	1:F:2348:GLN:HG2	1.80	0.62
3:H:454:VAL:O	3:H:458:ILE:N	2.33	0.62
1:A:39:GLY:HA3	1:A:826:PHE:CE1	2.35	0.62
1:A:699:GLU:HG2	1:A:700:LYS:HD3	1.81	0.62
1:A:3665:MET:O	1:A:3669:LYS:NZ	2.31	0.62
2:B:144:SER:HA	2:B:189:LYS:NZ	2.14	0.62
1:F:793:LEU:O	1:F:795:CYS:N	2.30	0.62
1:F:2183:HIS:H	1:F:2186:VAL:HB	1.65	0.62
3:H:9:ALA:N	3:H:129:LYS:O	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:479:ILE:HA	1:A:482:VAL:HG22	1.82	0.62
1:A:1274:ARG:HA	1:A:1274:ARG:CZ	2.30	0.62
1:A:1563:PHE:HD2	1:A:1566:THR:HG21	1.64	0.62
1:A:1839:PHE:CE1	1:A:1843:ILE:HG21	2.35	0.62
2:B:275:ASN:HA	2:B:366:LEU:HD12	1.81	0.62
1:F:1533:LEU:HD13	1:F:1585:SER:HB2	1.80	0.62
1:F:2420:PHE:HZ	1:F:2435:CYS:HB3	1.64	0.62
1:F:3460:GLU:O	1:F:3464:LYS:HG2	2.00	0.62
1:F:3730:ALA:HA	1:F:3734:ARG:NE	2.15	0.62
2:G:132:GLN:OE1	2:G:137:HIS:HB2	2.00	0.62
2:G:273:ILE:HG23	2:G:368:VAL:CG2	2.30	0.62
2:G:348:MET:O	3:H:461:MET:HG2	2.00	0.62
2:G:388:LYS:HA	2:G:391:GLU:HG2	1.82	0.62
1:A:1887:ASP:OD1	1:A:1888:ASP:N	2.33	0.61
1:A:2177:ASN:ND2	1:A:2181:GLY:O	2.27	0.61
1:A:2586:PHE:CZ	1:A:2780:LEU:HB3	2.35	0.61
1:A:2881:LEU:HA	1:A:2886:GLN:HE21	1.65	0.61
1:A:3275:SER:HA	1:A:3278:GLN:HE21	1.65	0.61
1:A:3527:GLN:HE21	1:A:3697:ASN:HB2	1.64	0.61
2:B:34:GLY:HA2	2:B:160:LYS:HG3	1.80	0.61
2:B:407:PRO:HG3	3:C:486:ARG:HG3	1.81	0.61
3:C:455:ASP:HA	3:C:458:ILE:HD12	1.81	0.61
1:F:3737:ARG:HA	1:F:3751:LEU:HA	1.79	0.61
1:A:848:LEU:HG	1:A:851:ILE:HD12	1.82	0.61
1:A:1779:GLN:HA	1:A:1782:PHE:CD2	2.35	0.61
1:A:2154:GLU:HA	1:A:2157:PHE:CE1	2.35	0.61
1:F:1205:ASN:HA	1:F:1275:THR:HA	1.82	0.61
1:F:1454:ALA:HA	1:F:1457:GLN:HE21	1.65	0.61
1:F:1468:LEU:HD12	1:F:1469:PRO:HD2	1.80	0.61
1:A:1112:ALA:HA	1:A:1180:GLN:HG2	1.82	0.61
1:A:1391:VAL:O	1:A:1395:LEU:N	2.32	0.61
1:A:3856:MET:HB3	1:A:4072:PRO:HB2	1.82	0.61
2:B:459:VAL:HG12	2:B:463:LYS:HE2	1.82	0.61
1:F:23:ASP:HA	1:F:34:LEU:HD11	1.82	0.61
1:F:977:ASP:HB3	1:F:980:THR:HG23	1.81	0.61
1:F:2196:TRP:HB2	1:F:2199:LEU:HB2	1.82	0.61
1:F:2481:HIS:CE1	1:F:2485:ARG:HE	2.17	0.61
1:F:3680:LEU:HD22	1:F:3724:GLU:HG3	1.82	0.61
2:G:287:LYS:HA	3:H:312:GLN:HA	1.82	0.61
3:H:37:VAL:O	3:H:41:PHE:HD1	1.82	0.61
3:H:232:ARG:HA	3:H:515:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1202:ARG:NE	1:A:1210:ASP:OD2	2.33	0.61
1:A:1854:ARG:HH12	1:A:1863:PHE:HB2	1.64	0.61
1:A:3952:PHE:HD2	1:A:3953:LEU:HD22	1.66	0.61
2:B:399:ARG:HA	2:B:410:PHE:HA	1.81	0.61
1:F:1809:ASP:O	1:F:1816:ARG:NH2	2.33	0.61
1:F:2394:LYS:HB2	1:F:2431:ARG:HH12	1.65	0.61
1:F:3054:GLN:OE1	1:F:3054:GLN:N	2.32	0.61
1:A:2206:PRO:O	1:A:2210:VAL:N	2.25	0.61
1:A:2471:GLU:OE2	1:A:2472:GLN:NE2	2.33	0.61
1:A:2528:GLU:HA	1:A:2531:LEU:O	2.01	0.61
2:B:120:ASP:OD1	2:B:123:LYS:NZ	2.31	0.61
2:B:123:LYS:O	2:B:126:GLN:NE2	2.33	0.61
1:F:1511:ALA:HA	1:F:1514:LEU:HD12	1.82	0.61
1:F:2290:PRO:HG2	1:F:2293:GLY:H	1.64	0.61
1:F:2368:THR:HG21	1:F:2400:VAL:HG23	1.82	0.61
2:G:358:LYS:HE2	3:H:353:ARG:NH2	2.15	0.61
1:A:32:HIS:O	1:A:36:ARG:NH1	2.34	0.61
1:A:853:ILE:O	1:A:857:GLN:NE2	2.31	0.61
1:A:1622:ILE:O	1:A:1626:TRP:N	2.34	0.61
1:A:2880:CYS:O	1:A:2884:LEU:N	2.34	0.61
1:A:3326:GLN:HA	1:A:3329:LEU:HD12	1.83	0.61
1:A:3841:ASP:OD1	1:A:3842:TRP:N	2.33	0.61
1:A:3918:LEU:HD22	1:A:3920:ILE:HG13	1.82	0.61
3:C:357:MET:HE1	3:C:425:PRO:HA	1.81	0.61
3:C:645:GLU:O	3:C:649:PHE:N	2.33	0.61
1:F:925:GLN:HB2	1:F:2800:ARG:HH22	1.66	0.61
1:F:1886:LYS:O	1:F:1890:HIS:ND1	2.33	0.61
1:F:1927:MET:HG2	1:F:1929:GLY:H	1.65	0.61
1:F:3244:ASP:HA	1:F:3247:ARG:NH1	2.16	0.61
1:F:3833:ARG:HG3	1:F:3834:ALA:H	1.66	0.61
1:F:3965:ARG:HH21	1:F:3969:ASN:HA	1.65	0.61
1:A:447:PRO:HB3	1:A:526:ASP:HB3	1.83	0.61
1:A:1032:CYS:O	1:A:1036:PHE:N	2.27	0.61
1:A:2835:LYS:O	1:A:2838:GLN:NE2	2.33	0.61
1:A:3789:ARG:HH22	1:A:3791:TYR:H	1.49	0.61
3:C:485:PRO:HA	3:C:488:GLN:NE2	2.14	0.61
1:F:1610:ASN:OD1	1:F:1611:GLN:N	2.30	0.61
1:F:3005:LEU:HD21	1:F:3252:PHE:CZ	2.36	0.61
1:F:3532:PRO:HA	1:F:3535:ILE:HD12	1.82	0.61
2:G:282:LYS:NZ	2:G:483:LEU:HD13	2.16	0.61
1:A:1602:ASP:OD1	1:A:1603:GLN:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3034:PRO:HG2	1:A:3037:GLN:HB2	1.81	0.61
1:A:3231:ILE:HG22	1:A:3235:LYS:HZ2	1.65	0.61
1:A:3365:SER:HB3	1:A:3373:VAL:HA	1.82	0.61
1:A:3924:HIS:CD2	1:A:3926:ASN:HB2	2.36	0.61
1:F:2796:ALA:O	1:F:2799:GLN:NE2	2.34	0.61
1:F:3862:ALA:HB3	1:F:4119:ARG:HH21	1.64	0.61
2:G:351:LYS:O	2:G:395:ALA:N	2.32	0.61
3:H:137:ASP:HB3	3:H:166:PRO:HG2	1.82	0.61
1:A:1209:LYS:HE3	1:A:1276:VAL:HG13	1.83	0.61
1:A:1741:ASP:OD1	1:A:1745:LYS:NZ	2.33	0.61
1:A:2457:PRO:O	1:A:2460:GLU:HG2	2.00	0.61
2:B:89:GLY:HA2	2:B:101:ASN:HB3	1.82	0.61
2:B:439:PHE:HB3	3:C:483:PRO:HA	1.83	0.61
1:F:868:LYS:O	1:F:872:THR:N	2.25	0.61
1:F:960:GLN:OE1	1:F:960:GLN:N	2.29	0.61
1:F:1142:HIS:O	1:F:1146:ASN:N	2.33	0.61
1:F:2425:ARG:NH1	1:F:2460:GLU:OE1	2.33	0.61
1:F:4049:ARG:HH22	1:F:4058:VAL:HB	1.64	0.61
2:G:299:LYS:HG2	3:H:294:VAL:HG12	1.83	0.61
2:G:312:LEU:HD12	2:G:313:PRO:HD2	1.83	0.61
3:H:15:ASP:HB3	3:H:136:THR:HG23	1.82	0.61
1:A:163:LYS:HG2	2:B:313:PRO:HD3	1.82	0.61
1:A:251:PHE:HA	1:A:254:LYS:HG2	1.82	0.61
1:A:317:GLU:HA	1:A:320:LEU:HB2	1.83	0.61
1:A:1825:LEU:HD23	1:A:1828:LEU:HD21	1.82	0.61
1:F:1622:ILE:HA	1:F:1625:HIS:HB2	1.83	0.61
2:G:261:LEU:HG	2:G:271:VAL:HG21	1.83	0.61
1:A:523:THR:O	1:A:525:LYS:N	2.34	0.60
1:A:1414:ILE:HG22	1:A:1418:HIS:CE1	2.36	0.60
3:C:629:THR:HA	3:C:632:PHE:CE2	2.35	0.60
1:F:1131:ILE:HA	1:F:1134:LEU:HD12	1.82	0.60
1:F:3713:PRO:O	1:F:3716:HIS:NE2	2.34	0.60
1:A:2841:ASN:O	1:A:2845:ASN:ND2	2.34	0.60
1:A:3059:GLN:O	1:A:3063:THR:N	2.22	0.60
1:A:3729:MET:CE	1:A:3737:ARG:CB	2.79	0.60
1:A:3754:GLY:HA2	1:A:3800:LEU:HG	1.82	0.60
1:F:781:ASP:OD2	1:F:783:HIS:ND1	2.34	0.60
1:F:3457:ASN:ND2	1:F:3492:CYS:SG	2.74	0.60
1:F:4017:GLU:HG2	1:F:4033:VAL:HG12	1.83	0.60
1:A:984:TYR:O	1:A:988:VAL:N	2.33	0.60
2:B:147:LEU:HD12	2:B:189:LYS:HE2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:459:VAL:HA	2:B:462:MET:HE2	1.82	0.60
3:C:497:ARG:NH2	3:C:501:PRO:O	2.34	0.60
1:F:2320:ALA:HB3	1:F:2366:LYS:HE3	1.83	0.60
1:F:2954:GLN:HA	1:F:2957:LEU:HD12	1.82	0.60
1:F:3176:MET:HA	1:F:3179:TRP:CD1	2.36	0.60
2:G:258:ARG:NH2	5:I:33:DA:OP1	2.35	0.60
1:A:528:VAL:HG13	1:A:532:ARG:HH22	1.65	0.60
1:A:1663:THR:H	1:A:1665:HIS:CE1	2.19	0.60
1:A:2447:LYS:HZ3	1:A:2449:VAL:H	1.49	0.60
1:A:2877:SER:HB2	1:A:2928:LYS:HE3	1.84	0.60
1:A:3665:MET:SD	1:A:3666:LEU:HD22	2.41	0.60
2:B:189:LYS:HA	2:B:192:ASP:HB2	1.82	0.60
2:B:458:GLN:O	2:B:461:LYS:HG2	2.01	0.60
1:F:1831:CYS:HB2	1:F:1836:LEU:HD11	1.83	0.60
2:G:286:ILE:N	3:H:313:GLY:O	2.33	0.60
2:G:484:GLN:HE22	2:G:485:GLN:HE21	1.49	0.60
3:H:234:LEU:HD13	3:H:481:LYS:NZ	2.16	0.60
1:A:247:GLU:HA	1:A:250:ASN:HB2	1.82	0.60
1:A:738:HIS:HA	1:A:776:TRP:HE1	1.66	0.60
1:A:1115:HIS:HB3	1:A:1180:GLN:HG3	1.84	0.60
1:A:2120:ARG:HB3	1:A:2122:LEU:HD23	1.83	0.60
1:A:2261:SER:HA	1:A:2306:ASN:HD21	1.66	0.60
1:A:3738:ILE:O	1:A:3749:PRO:HA	2.01	0.60
2:B:403:ARG:NH1	2:B:404:ARG:HB3	2.16	0.60
1:F:66:LEU:HG	1:F:70:ARG:NH1	2.15	0.60
1:F:162:LEU:HD11	2:G:299:LYS:HB2	1.83	0.60
1:F:1017:ILE:HA	1:F:1026:ARG:HG2	1.83	0.60
1:F:1123:THR:HA	1:F:1126:GLN:HE22	1.67	0.60
1:F:2950:LYS:HB2	1:F:2953:THR:HG23	1.82	0.60
1:F:2987:THR:OG1	1:F:2988:GLU:OE1	2.20	0.60
3:H:642:PHE:HA	3:H:645:GLU:HB2	1.84	0.60
1:A:1191:PHE:HA	1:A:1194:PHE:CD2	2.36	0.60
1:A:2852:PRO:HA	1:A:2855:VAL:HG12	1.83	0.60
1:A:3029:LYS:HZ3	1:A:3031:TRP:HD1	1.50	0.60
1:F:3653:ARG:HA	1:F:3656:LEU:HD12	1.82	0.60
1:F:3882:LEU:HB3	1:F:3885:ARG:HH21	1.66	0.60
3:H:229:GLU:O	3:H:233:LYS:N	2.34	0.60
1:A:408:TYR:HE1	1:A:449:TYR:HE1	1.50	0.60
1:A:1893:GLU:H	1:A:1895:LYS:NZ	2.00	0.60
1:A:2497:GLU:HA	1:A:2500:LYS:HG2	1.84	0.60
2:B:203:MET:HE1	2:B:239:LEU:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:266:SER:N	3:C:361:VAL:O	2.21	0.60
1:F:1202:ARG:HH22	1:F:1210:ASP:HB2	1.67	0.60
1:F:3288:SER:O	1:F:3992:ARG:NH2	2.33	0.60
1:A:1924:THR:HA	1:A:1971:PRO:HG3	1.82	0.60
1:A:1954:CYS:SG	1:A:1955:VAL:N	2.75	0.60
1:A:2446:LEU:HD12	1:A:2447:LYS:H	1.66	0.60
1:A:2909:ARG:HG3	1:A:2911:ARG:H	1.67	0.60
1:A:2962:ARG:NH2	1:A:4100:GLU:OE1	2.35	0.60
2:B:459:VAL:O	2:B:463:LYS:HG2	2.02	0.60
1:F:2270:ASN:O	1:F:2274:ILE:HD12	2.01	0.60
1:F:2447:LYS:HG3	1:F:2449:VAL:HG22	1.82	0.60
1:F:3817:LEU:O	1:F:3825:LYS:NZ	2.35	0.60
2:G:388:LYS:NZ	3:H:455:ASP:OD1	2.35	0.60
3:H:412:ILE:HG23	3:H:417:GLU:HB3	1.82	0.60
1:A:70:ARG:NH1	1:A:82:ARG:HH21	1.98	0.60
1:A:193:ALA:HA	1:A:196:LEU:HD12	1.84	0.60
1:A:606:SER:HB3	1:A:1023:SER:HB3	1.83	0.60
1:A:890:LYS:N	1:A:3889:ARG:HH22	2.00	0.60
1:A:1917:LYS:HE2	3:H:725:VAL:HG22	1.82	0.60
1:A:2915:ARG:NH1	1:A:2916:LEU:O	2.33	0.60
1:A:3357:ARG:HE	1:A:3358:ARG:HH12	1.48	0.60
1:F:363:ILE:HA	1:F:366:TYR:HB2	1.83	0.60
1:F:721:TYR:O	1:F:722:LYS:NZ	2.33	0.60
1:F:1071:ASN:ND2	1:F:1073:PHE:HB2	2.16	0.60
1:F:1427:SER:HA	1:F:1430:GLU:HB2	1.83	0.60
1:F:1560:TYR:OH	1:F:1599:GLY:HA3	2.02	0.60
1:F:3988:LEU:HD23	1:F:4100:GLU:HB2	1.84	0.60
7:E:35:DT:O4	7:E:36:DA:N6	2.34	0.60
1:A:1182:GLU:OE1	1:A:1182:GLU:N	2.32	0.60
1:A:1696:LEU:O	1:A:1699:PHE:N	2.34	0.60
1:A:1776:GLU:HA	1:A:1779:GLN:NE2	2.17	0.60
1:A:2908:LYS:O	1:A:2915:ARG:NH2	2.35	0.60
1:A:3036:TYR:HB3	1:A:3040:TYR:HE2	1.66	0.60
2:B:486:HIS:O	2:B:490:LEU:HG	2.01	0.60
1:F:888:ARG:HH11	1:F:3890:MET:HB3	1.66	0.60
1:F:1755:SER:HB3	1:F:1758:LEU:HD13	1.83	0.60
1:F:4013:TRP:HZ2	1:F:4034:ALA:H	1.50	0.60
3:H:81:ARG:NH2	3:H:85:LEU:O	2.35	0.60
1:A:462:VAL:HG21	1:A:540:MET:HG2	1.83	0.59
1:A:1340:ARG:NH1	1:A:1343:GLU:OE1	2.35	0.59
1:A:3387:GLU:O	1:A:3390:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3443:PRO:HG3	1:A:3475:TYR:CD1	2.37	0.59
1:A:3511:ALA:HB1	1:A:3514:VAL:HG22	1.84	0.59
1:F:242:PRO:O	1:F:246:ARG:HG2	2.01	0.59
1:F:1327:GLY:HA2	1:F:1330:TYR:HB3	1.84	0.59
1:F:1807:LYS:O	1:F:1816:ARG:NH1	2.30	0.59
1:F:3714:GLU:O	1:F:3718:ARG:NH2	2.31	0.59
1:F:3809:THR:HA	1:F:3931:ALA:HA	1.82	0.59
6:D:36:DG:H1	7:E:21:DA:H5'	1.67	0.59
1:A:369:PHE:HA	1:A:372:PRO:HG2	1.84	0.59
1:A:1933:LEU:HB3	1:A:1935:GLU:HG2	1.84	0.59
1:A:2574:ASN:HB2	1:A:2787:HIS:HD2	1.66	0.59
1:A:3033:GLU:OE1	1:A:3033:GLU:N	2.25	0.59
2:B:76:ILE:HD13	2:B:248:ALA:HA	1.84	0.59
2:B:299:LYS:HB3	3:C:294:VAL:O	2.01	0.59
3:C:352:GLN:HB3	3:C:355:PHE:HB2	1.84	0.59
1:F:1828:LEU:HB3	1:F:1879:VAL:HG11	1.84	0.59
1:F:1878:ASP:OD1	1:F:1879:VAL:N	2.35	0.59
1:F:3884:LYS:NZ	1:F:3969:ASN:O	2.32	0.59
2:G:318:ARG:HH21	3:H:278:VAL:HG22	1.66	0.59
3:H:7:LYS:HD2	3:H:125:LYS:HZ1	1.67	0.59
3:H:261:ILE:HD12	3:H:364:VAL:HG11	1.82	0.59
3:H:489:ARG:NH1	3:H:492:GLN:OE1	2.35	0.59
1:A:528:VAL:HG23	1:A:633:ILE:HG12	1.85	0.59
1:A:677:ALA:O	1:A:681:LYS:N	2.35	0.59
1:A:1801:VAL:O	1:A:1805:PHE:N	2.35	0.59
1:A:2154:GLU:OE1	1:A:2154:GLU:N	2.31	0.59
1:A:3797:THR:HG22	1:A:3798:SER:H	1.65	0.59
1:A:3825:LYS:O	1:A:3830:SER:N	2.27	0.59
1:A:3852:VAL:HA	1:A:3855:TYR:HE1	1.67	0.59
2:B:179:ASP:OD1	2:B:182:LYS:NZ	2.34	0.59
3:C:676:GLU:OE1	3:C:676:GLU:N	2.33	0.59
1:F:272:LEU:HD23	1:F:312:ALA:HA	1.83	0.59
1:F:1310:GLU:OE1	1:F:1310:GLU:N	2.34	0.59
1:F:3049:LEU:HA	1:F:3052:LEU:HD12	1.84	0.59
2:G:485:GLN:HE22	2:G:502:GLN:HA	1.68	0.59
1:A:959:TYR:HA	1:A:962:TYR:CD2	2.31	0.59
1:A:990:GLN:HE22	1:A:2779:ASP:HA	1.67	0.59
1:A:1202:ARG:HE	1:A:1207:TRP:HA	1.67	0.59
1:A:2528:GLU:OE1	1:A:2528:GLU:N	2.29	0.59
1:A:2939:LEU:HA	1:A:2942:ILE:CG2	2.32	0.59
1:A:3882:LEU:HD13	1:A:3885:ARG:HH21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:491:CYS:O	1:F:625:ASN:ND2	2.35	0.59
1:F:1271:ILE:O	1:F:1274:ARG:NH1	2.35	0.59
1:F:1555:HIS:HB3	1:F:1559:PHE:CZ	2.37	0.59
1:F:2258:GLU:OE1	1:F:2259:LYS:HD3	2.02	0.59
1:F:3113:ASN:O	1:F:3117:ILE:HD12	2.02	0.59
3:H:655:PHE:HE2	3:H:688:LYS:HB3	1.67	0.59
4:J:37:DG:N1	5:I:20:DT:O2	2.20	0.59
6:D:35:DT:N3	7:E:21:DA:N1	2.48	0.59
1:A:675:ARG:O	1:A:678:LYS:HB3	2.02	0.59
1:A:899:ARG:HD2	1:A:2569:SER:HA	1.84	0.59
1:A:2277:LEU:HA	1:A:2280:VAL:HG12	1.84	0.59
1:A:2297:SER:O	1:A:2301:GLN:NE2	2.29	0.59
1:A:3815:LEU:O	1:A:3819:THR:OG1	2.20	0.59
1:F:1602:ASP:O	1:F:1606:ARG:N	2.33	0.59
1:F:1809:ASP:OD2	1:F:1811:ARG:NH2	2.35	0.59
1:F:3627:ALA:HA	1:F:3630:ARG:HB3	1.85	0.59
1:A:152:LEU:HD13	1:A:155:LYS:NZ	2.17	0.59
1:A:2826:LEU:HA	1:A:2829:LYS:HD2	1.85	0.59
1:F:397:LEU:HD11	1:F:438:LEU:HB3	1.83	0.59
1:F:493:LYS:NZ	1:F:523:THR:HA	2.17	0.59
1:F:1150:LYS:NZ	1:F:1161:ALA:O	2.30	0.59
1:F:2970:LYS:HE2	1:F:2970:LYS:HA	1.83	0.59
3:H:456:ALA:HB3	3:H:533:ILE:HD11	1.85	0.59
1:A:340:TYR:O	1:A:343:GLU:N	2.36	0.59
1:A:400:THR:HG22	1:A:6023:UNK:HA	1.83	0.59
1:A:741:ILE:HG23	1:A:748:TYR:HD2	1.67	0.59
1:A:1319:GLY:N	1:A:1322:THR:O	2.35	0.59
1:A:3298:LEU:HD13	1:A:3337:ILE:HA	1.85	0.59
1:A:3901:ARG:HH12	1:A:3970:LEU:HA	1.67	0.59
2:B:297:LYS:HE3	3:C:296:CYS:SG	2.43	0.59
1:F:170:VAL:HG12	1:F:216:LYS:HG3	1.82	0.59
1:F:485:GLN:HA	1:F:488:ILE:HD12	1.85	0.59
1:F:1102:GLU:HG2	1:F:1152:ARG:HG3	1.84	0.59
1:F:1182:GLU:HA	1:F:1185:HIS:HB2	1.85	0.59
2:G:416:GLN:OE1	3:H:354:ARG:NH2	2.36	0.59
3:H:352:GLN:OE1	3:H:354:ARG:NH2	2.29	0.59
4:J:28:DA:C2	5:I:29:DA:C2	2.90	0.59
1:A:1498:GLN:HA	1:A:1541:ALA:HB3	1.84	0.59
3:C:411:HIS:N	3:C:418:CYS:O	2.36	0.59
1:F:217:LEU:HA	1:F:220:LEU:HD12	1.85	0.59
1:F:1149:LYS:HB2	1:F:1151:ARG:NH1	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3554:PHE:O	1:F:3557:ARG:NH1	2.36	0.59
1:A:19:LEU:HD11	1:A:37:GLY:HA3	1.83	0.59
1:A:151:GLU:OE1	1:A:151:GLU:N	2.36	0.59
1:A:449:TYR:HB3	1:A:453:MET:HG2	1.85	0.59
1:A:2443:MET:HE1	1:A:2476:ILE:HA	1.85	0.59
1:F:135:LEU:HA	1:F:138:PHE:CD2	2.38	0.59
1:F:1191:PHE:HA	1:F:1194:PHE:CD2	2.37	0.59
1:F:1560:TYR:CZ	1:F:1596:VAL:HA	2.38	0.59
1:F:2825:THR:O	1:F:2829:LYS:HG3	2.02	0.59
3:H:16:VAL:HG22	3:H:101:GLY:H	1.67	0.59
1:A:111:CYS:HB2	1:A:130:LEU:HD22	1.84	0.59
1:A:188:GLU:HA	1:A:191:ASN:HB2	1.84	0.59
1:A:968:VAL:HA	1:A:971:ARG:HB2	1.85	0.59
1:A:1560:TYR:OH	1:A:1599:GLY:HA3	2.03	0.59
1:A:2794:LEU:HA	1:A:2797:VAL:HG12	1.85	0.59
1:A:2887:PRO:HG2	1:A:3895:GLU:HG3	1.84	0.59
1:A:4101:GLU:O	1:A:4104:VAL:HG22	2.02	0.59
2:B:269:ILE:HA	2:B:375:VAL:HG11	1.85	0.59
1:F:1238:GLN:HB2	1:F:1245:ARG:HH21	1.67	0.59
1:F:1735:ARG:HH12	1:F:1736:PHE:HB2	1.67	0.59
1:F:2098:THR:O	1:F:2102:LYS:HG2	2.03	0.59
1:F:2897:LEU:HD21	1:F:2923:TRP:CZ2	2.38	0.59
1:F:3086:LEU:HD12	1:F:3089:LEU:HD12	1.84	0.59
1:F:3735:PRO:HB2	1:F:3751:LEU:HD11	1.84	0.59
2:G:371:GLU:O	2:G:373:SER:N	2.35	0.59
2:G:429:PRO:HG3	3:H:435:PHE:HA	1.84	0.59
1:A:979:VAL:O	1:A:983:LEU:N	2.36	0.58
1:A:1820:VAL:HG23	1:A:1824:LEU:HB2	1.85	0.58
1:A:1921:ASP:OD1	1:A:1922:ALA:N	2.36	0.58
1:A:2357:GLU:HG2	1:A:2358:ASP:N	2.17	0.58
2:B:413:LEU:HD11	2:B:432:PHE:HB3	1.85	0.58
2:B:433:GLN:NE2	3:C:354:ARG:HG2	2.17	0.58
1:F:1171:TRP:O	1:F:1175:HIS:ND1	2.36	0.58
1:F:2452:ARG:HA	1:F:2455:LEU:HD12	1.84	0.58
1:F:2993:PHE:HA	1:F:2996:LEU:HD12	1.84	0.58
1:F:3059:GLN:O	1:F:3063:THR:N	2.28	0.58
1:F:3263:HIS:HB2	1:F:3276:TRP:CE2	2.38	0.58
1:F:3576:ASP:OD1	1:F:3579:SER:OG	2.21	0.58
2:G:111:PRO:O	3:H:318:SER:CB	2.51	0.58
2:G:125:GLN:O	2:G:128:GLN:HG3	2.03	0.58
1:A:770:LEU:O	1:A:773:LEU:HG	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3470:GLN:O	1:A:3474:ARG:HG2	2.03	0.58
2:B:83:LEU:N	2:B:109:ASP:O	2.31	0.58
3:C:280:ASP:OD1	3:C:281:ALA:N	2.36	0.58
1:F:1407:LYS:HA	1:F:1412:LYS:HB2	1.84	0.58
1:F:3354:ASP:H	1:F:3357:ARG:NH2	1.99	0.58
2:G:85:VAL:HG22	2:G:106:GLN:NE2	2.18	0.58
3:H:496:HIS:CE1	3:H:503:GLU:HB3	2.37	0.58
1:A:332:GLU:O	1:A:335:LYS:NZ	2.29	0.58
1:A:1499:CYS:HG	1:A:1549:SER:N	2.01	0.58
1:A:1734:PRO:HD2	3:C:580:SER:HB2	1.86	0.58
1:A:2117:SER:N	1:A:2120:ARG:O	2.36	0.58
1:A:3913:ILE:O	1:A:3917:ILE:HD12	2.03	0.58
1:F:246:ARG:HA	1:F:249:PHE:CD2	2.38	0.58
1:F:573:LEU:HD11	1:F:649:PHE:CD1	2.38	0.58
1:F:982:GLN:HE22	1:F:2592:ASP:H	1.51	0.58
1:F:1035:GLU:HA	1:F:1038:LYS:HG2	1.83	0.58
1:F:1220:LEU:HD13	1:F:1285:GLU:HG3	1.85	0.58
1:F:2300:PHE:HA	1:F:2303:LEU:HD12	1.85	0.58
1:F:2453:GLU:OE1	1:F:2453:GLU:N	2.35	0.58
1:F:3130:GLN:O	1:F:3133:GLN:NE2	2.35	0.58
1:F:3298:LEU:HD22	1:F:3337:ILE:HD11	1.83	0.58
6:D:15:DA:H5'	7:E:42:DA:H2	1.67	0.58
1:A:103:TYR:O	1:A:107:ILE:HG12	2.04	0.58
1:A:138:PHE:HE1	1:A:146:GLU:HA	1.67	0.58
1:A:1814:PHE:HA	1:A:1817:GLN:NE2	2.18	0.58
2:B:286:ILE:N	3:C:312:GLN:OE1	2.36	0.58
2:B:416:GLN:HB3	2:B:431:GLY:N	2.17	0.58
1:F:1135:CYS:HA	1:F:1138:ILE:HG22	1.86	0.58
1:F:1781:SER:HA	1:F:1784:ARG:HH12	1.68	0.58
1:F:2130:HIS:CD2	1:F:2167:PRO:HG3	2.39	0.58
1:F:2263:LYS:HG2	1:F:2309:PHE:HZ	1.69	0.58
1:F:2371:PHE:CZ	1:F:2373:PRO:HG2	2.38	0.58
1:F:3052:LEU:HD23	1:F:3056:GLU:HB3	1.85	0.58
2:G:297:LYS:O	3:H:295:TYR:HA	2.02	0.58
6:D:32:DT:H2"	6:D:33:DA:C8	2.39	0.58
1:A:99:LYS:HZ3	1:A:144:MET:H	1.51	0.58
1:A:268:PRO:O	1:A:271:GLY:N	2.37	0.58
1:A:483:VAL:O	1:A:487:LEU:HG	2.02	0.58
1:A:518:LYS:NZ	1:A:519:TRP:O	2.35	0.58
1:A:1087:ARG:HA	1:A:1090:ARG:HE	1.67	0.58
1:A:1686:LEU:HD23	1:A:1738:ASN:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2228:ARG:HA	1:A:2231:PHE:HB3	1.84	0.58
1:A:2771:LEU:HB3	1:A:2775:TYR:HE2	1.67	0.58
2:B:296:VAL:HB	3:C:296:CYS:O	2.04	0.58
2:B:469:LEU:HB3	2:B:518:LEU:HD12	1.86	0.58
3:C:384:LEU:HB2	3:C:389:MET:HB3	1.86	0.58
1:F:100:ILE:HG23	1:F:104:SER:HB3	1.86	0.58
1:F:1251:GLN:NE2	1:F:1255:CYS:SG	2.76	0.58
1:F:1293:ALA:HA	1:F:1296:PHE:CD2	2.38	0.58
1:F:1519:PHE:CD1	1:F:1570:GLU:HG2	2.39	0.58
1:F:1935:GLU:HA	1:F:1938:ARG:HG2	1.86	0.58
1:F:2310:VAL:HA	1:F:2316:TYR:CE2	2.39	0.58
1:F:3761:ASP:HA	1:F:3764:VAL:HG22	1.84	0.58
1:A:888:ARG:NH2	1:A:3889:ARG:O	2.32	0.58
1:A:1576:ASP:HA	1:A:1579:VAL:HG12	1.84	0.58
1:A:2295:GLN:HE21	1:A:2298:GLU:CD	2.06	0.58
1:A:2981:TRP:N	1:A:2985:GLU:OE2	2.37	0.58
1:A:3267:LYS:HA	1:A:3273:LEU:HD21	1.86	0.58
1:A:3884:LYS:NZ	1:A:3969:ASN:O	2.28	0.58
1:F:1912:THR:HA	1:F:1915:LEU:HD23	1.85	0.58
1:A:665:GLY:HA2	1:A:668:LYS:HE2	1.85	0.58
1:A:1063:LEU:HD11	1:A:1078:ALA:HA	1.85	0.58
1:A:1212:LEU:O	1:A:1216:GLY:N	2.37	0.58
1:A:1453:SER:O	1:A:1457:GLN:NE2	2.37	0.58
1:A:1526:GLU:OE1	1:A:1526:GLU:N	2.29	0.58
3:C:395:TYR:O	3:C:404:GLN:N	2.28	0.58
3:C:605:LYS:HZ3	3:C:611:GLU:HG2	1.68	0.58
1:F:1041:ILE:HA	1:F:1044:ILE:HB	1.86	0.58
1:F:1696:LEU:HA	1:F:1699:PHE:HD2	1.68	0.58
1:F:2421:VAL:O	1:F:2425:ARG:N	2.32	0.58
1:F:3335:ARG:HH21	1:F:3419:PHE:HA	1.69	0.58
2:G:412:ALA:N	2:G:435:VAL:O	2.36	0.58
1:A:833:HIS:HA	1:A:836:LYS:NZ	2.19	0.58
1:A:1444:ASP:HA	1:A:1447:ARG:HE	1.69	0.58
1:A:2287:PRO:HD3	1:A:2329:TYR:CZ	2.39	0.58
1:A:2405:VAL:HG21	1:A:2441:LYS:HB3	1.85	0.58
1:A:3901:ARG:NH2	1:A:3970:LEU:O	2.36	0.58
2:B:72:ILE:HA	2:B:75:ILE:HD12	1.86	0.58
2:B:429:PRO:HG3	3:C:435:PHE:H	1.68	0.58
3:C:395:TYR:CD1	3:C:404:GLN:HB2	2.39	0.58
1:F:146:GLU:HG3	1:F:147:PHE:CD2	2.39	0.58
1:F:1202:ARG:HB2	1:F:1207:TRP:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1629:CYS:O	1:F:1633:TRP:NE1	2.36	0.58
1:F:1971:PRO:O	1:F:1973:LYS:N	2.36	0.58
1:F:4085:LYS:NZ	1:F:4092:GLN:OE1	2.37	0.58
3:H:181:GLY:N	3:H:521:GLU:OE2	2.36	0.58
3:H:390:VAL:HG12	3:H:409:PHE:HE1	1.69	0.58
5:I:35:DT:O4	5:I:36:DA:N6	2.36	0.58
1:A:194:GLU:HG2	1:A:195:ASN:N	2.19	0.58
1:A:767:GLU:O	1:A:770:LEU:HB3	2.04	0.58
1:A:2300:PHE:HA	1:A:2303:LEU:HD12	1.85	0.58
1:A:3252:PHE:HA	1:A:3283:LEU:HD11	1.86	0.58
1:A:3729:MET:HE3	1:A:3737:ARG:CB	2.34	0.58
1:F:225:LYS:HD3	1:F:271:GLY:H	1.67	0.58
1:F:256:ILE:HG23	1:F:257:ARG:HG2	1.86	0.58
1:F:1696:LEU:O	1:F:1699:PHE:N	2.34	0.58
1:F:1894:SER:HB3	1:F:1911:LEU:HD11	1.86	0.58
3:H:341:SER:O	3:H:394:ARG:N	2.32	0.58
1:A:350:ARG:NE	3:C:579:SER:O	2.34	0.58
1:A:857:GLN:H	1:A:857:GLN:CD	2.07	0.58
1:A:1860:GLU:HG3	1:A:1862:THR:H	1.69	0.58
1:A:2273:GLY:O	1:A:2277:LEU:HG	2.03	0.58
1:A:2527:HIS:ND1	1:A:2529:THR:HG23	2.19	0.58
1:A:2935:GLU:O	1:A:2939:LEU:HG	2.03	0.58
1:A:3915:HIS:HA	1:A:3920:ILE:HD13	1.85	0.58
1:F:1326:GLU:HG3	1:F:1329:ARG:HH22	1.69	0.58
1:F:3018:SER:O	1:F:3037:GLN:NE2	2.36	0.58
3:H:53:GLU:HB2	3:H:83:LEU:HD12	1.86	0.58
4:J:19:DA:H1'	4:J:20:DT:H5'	1.85	0.58
1:A:242:PRO:O	1:A:246:ARG:HG3	2.04	0.57
1:F:435:LEU:O	1:F:439:VAL:HG23	2.04	0.57
1:F:718:MET:O	1:F:721:TYR:N	2.30	0.57
1:F:1039:TRP:HD1	1:F:1042:LYS:HB2	1.69	0.57
1:F:3463:LEU:HA	1:F:3498:TRP:HZ2	1.69	0.57
5:I:26:DA:H1'	5:I:27:DC:H5'	1.84	0.57
1:A:2219:LEU:O	1:A:2223:VAL:HG13	2.04	0.57
1:A:3063:THR:O	1:A:3067:LYS:HG2	2.04	0.57
2:B:91:GLU:HG3	2:B:135:MET:SD	2.45	0.57
1:F:1506:SER:O	1:F:1510:LEU:HG	2.04	0.57
1:F:3964:THR:HG22	1:F:3967:PHE:CD2	2.39	0.57
1:A:899:ARG:H	1:A:899:ARG:HD3	1.69	0.57
1:A:2850:PHE:HD2	1:A:2882:ALA:HB3	1.69	0.57
2:B:388:LYS:HD2	2:B:391:GLU:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1060:PHE:HD1	1:F:1063:LEU:HD12	1.68	0.57
1:F:2269:ASP:OD1	1:F:2270:ASN:N	2.37	0.57
2:G:419:GLU:HG2	2:G:427:VAL:HG23	1.85	0.57
3:H:295:TYR:CD2	3:H:307:LYS:HA	2.39	0.57
1:A:237:SER:O	1:A:243:GLN:HG2	2.04	0.57
1:A:310:LYS:HG3	1:A:311:ALA:H	1.69	0.57
1:A:2169:LEU:O	1:A:2173:ALA:HB2	2.04	0.57
1:A:3413:TYR:HA	1:A:3449:LYS:HZ3	1.68	0.57
1:A:3508:LYS:HZ1	1:A:3540:TYR:N	2.02	0.57
1:A:3533:PHE:O	1:A:3537:SER:N	2.37	0.57
1:A:3834:ALA:HB3	1:A:3835:PRO:HD3	1.87	0.57
1:F:19:LEU:HD22	1:F:34:LEU:HA	1.86	0.57
1:F:387:GLU:HB2	1:F:391:ARG:NH1	2.18	0.57
1:F:1142:HIS:CD2	1:F:1146:ASN:HD21	2.23	0.57
1:F:1574:ASN:OD1	1:F:1575:LEU:N	2.37	0.57
1:F:2497:GLU:HA	1:F:2500:LYS:HG2	1.86	0.57
1:F:4006:VAL:HG23	1:F:4011:PHE:HD2	1.70	0.57
3:H:93:ASP:HA	3:H:97:LYS:HE2	1.87	0.57
1:A:17:GLU:HA	1:A:20:SER:HG	1.69	0.57
1:A:36:ARG:O	1:A:40:GLN:NE2	2.37	0.57
1:A:1149:LYS:N	1:A:1163:LEU:O	2.36	0.57
1:A:3847:SER:HA	1:A:3857:LEU:HD22	1.86	0.57
3:C:279:VAL:HB	3:C:285:LYS:N	2.18	0.57
1:F:891:ARG:N	1:F:908:ASP:OD2	2.38	0.57
1:F:1087:ARG:HA	1:F:1090:ARG:NE	2.18	0.57
1:F:1637:SER:O	1:F:1642:LYS:NZ	2.37	0.57
1:F:2228:ARG:HA	1:F:2232:ARG:NH1	2.19	0.57
1:F:2414:GLN:O	1:F:2418:LYS:HG3	2.03	0.57
1:F:2845:ASN:OD1	1:F:2846:THR:N	2.37	0.57
2:G:487:PHE:O	2:G:491:GLU:HG3	2.03	0.57
3:H:41:PHE:O	3:H:44:ARG:HG2	2.05	0.57
3:H:651:GLU:OE2	3:H:654:ARG:NH1	2.38	0.57
1:A:1149:LYS:O	1:A:1163:LEU:N	2.33	0.57
1:A:1474:ASP:O	1:A:1476:HIS:ND1	2.37	0.57
1:A:1733:THR:HG23	1:A:1736:PHE:H	1.69	0.57
1:A:2202:PRO:HG3	1:A:2245:TRP:CE2	2.39	0.57
1:A:3781:CYS:O	1:A:3785:ALA:N	2.37	0.57
1:A:3781:CYS:SG	1:A:3786:LEU:HB2	2.44	0.57
1:A:3814:ASP:OD1	1:A:3815:LEU:N	2.36	0.57
1:A:4073:ALA:HB1	1:A:4076:ASP:HB2	1.87	0.57
1:F:303:HIS:HE1	1:F:308:LEU:HD13	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:888:ARG:HH22	1:F:3886:ALA:HA	1.70	0.57
1:F:3089:LEU:O	1:F:3093:GLN:NE2	2.38	0.57
2:G:343:PRO:HG3	2:G:403:ARG:HA	1.85	0.57
1:A:339:GLN:HE22	3:C:570:GLU:HA	1.69	0.57
1:A:339:GLN:NE2	3:C:570:GLU:OE1	2.38	0.57
1:A:749:VAL:O	1:A:752:LEU:HG	2.03	0.57
1:A:935:HIS:NE2	1:A:987:LEU:HD13	2.20	0.57
1:A:1278:ALA:O	1:A:1282:LEU:N	2.37	0.57
1:A:1356:TRP:NE1	1:A:1358:LEU:O	2.36	0.57
1:A:1424:THR:OG1	1:A:1427:SER:N	2.36	0.57
1:A:2574:ASN:H	1:A:2787:HIS:H	1.52	0.57
1:A:2912:GLY:HA3	1:A:2916:LEU:HG	1.85	0.57
1:A:3745:GLU:O	1:A:3746:ARG:NH1	2.37	0.57
1:A:3791:TYR:HB2	1:A:3804:GLU:OE2	2.05	0.57
1:A:4046:TYR:HB3	1:A:4050:LYS:NZ	2.19	0.57
1:A:4116:ILE:HD12	1:A:4119:ARG:HB2	1.85	0.57
2:B:75:ILE:HG12	2:B:111:PRO:HB3	1.87	0.57
2:B:90:THR:HB	2:B:103:TYR:HB2	1.86	0.57
3:C:138:LEU:HB3	3:C:201:GLN:HB3	1.86	0.57
1:F:475:LEU:HD22	1:F:476:ARG:HD2	1.87	0.57
1:F:554:ASN:C	1:F:554:ASN:HD22	2.06	0.57
1:F:924:ARG:H	1:F:927:LYS:HZ1	1.51	0.57
1:F:925:GLN:NE2	1:F:2768:GLN:O	2.37	0.57
1:F:2312:TYR:CD2	1:F:2315:VAL:HG23	2.38	0.57
1:F:2824:LYS:O	1:F:2829:LYS:NZ	2.38	0.57
1:A:386:VAL:HA	1:A:389:ILE:HD12	1.86	0.57
1:A:1358:LEU:HA	1:A:1361:LYS:HZ3	1.68	0.57
1:A:1845:VAL:HA	1:A:1848:ILE:HG12	1.87	0.57
1:A:1896:ILE:HA	1:A:1898:GLN:HE22	1.70	0.57
1:A:3410:ILE:HA	1:A:3413:TYR:HB2	1.86	0.57
1:A:3420:CYS:HB3	1:A:3446:VAL:HG12	1.86	0.57
2:B:299:LYS:HE3	2:B:301:ARG:HB2	1.86	0.57
1:F:265:TYR:HH	1:F:303:HIS:CG	2.22	0.57
1:F:340:TYR:HA	1:F:343:GLU:HG3	1.87	0.57
1:F:353:ASP:OD1	1:F:354:SER:N	2.36	0.57
1:F:993:HIS:ND1	1:F:2779:ASP:OD1	2.38	0.57
1:F:1574:ASN:HD21	1:F:1577:LEU:HB2	1.70	0.57
1:F:2394:LYS:HB2	1:F:2431:ARG:NH1	2.20	0.57
1:F:3833:ARG:HB2	1:F:4127:TRP:CZ2	2.40	0.57
2:G:63:SER:O	2:G:67:ILE:HG12	2.04	0.57
1:A:138:PHE:O	1:A:142:ARG:HD2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:LEU:HB3	1:A:156:PHE:CE2	2.40	0.57
1:A:1241:LEU:HD21	1:A:1296:PHE:CE2	2.40	0.57
1:A:1564:SER:O	1:A:1568:ASN:ND2	2.38	0.57
1:A:3228:SER:HA	1:A:3231:ILE:HD12	1.87	0.57
1:F:397:LEU:HD13	1:F:441:MET:HE3	1.86	0.57
1:F:1304:HIS:CG	1:F:1309:ALA:HB2	2.40	0.57
1:F:2295:GLN:HG2	1:F:2298:GLU:OE2	2.05	0.57
1:F:2563:LEU:HD13	1:F:2795:GLN:HB3	1.85	0.57
2:G:125:GLN:O	2:G:129:LYS:HG3	2.05	0.57
2:G:484:GLN:HA	2:G:487:PHE:HD2	1.69	0.57
3:H:210:MET:HA	3:H:213:ILE:HG12	1.85	0.57
1:A:332:GLU:HG2	1:A:333:MET:SD	2.45	0.57
1:A:1205:ASN:O	1:A:1209:LYS:HG2	2.05	0.57
1:A:2202:PRO:HG3	1:A:2245:TRP:CD2	2.39	0.57
1:A:2285:LEU:HD12	1:A:2286:PRO:HD2	1.87	0.57
1:A:2446:LEU:HD12	1:A:2447:LYS:N	2.20	0.57
1:A:2967:GLU:O	1:A:2971:GLN:HG2	2.05	0.57
1:A:3269:ARG:HB2	1:A:3272:TRP:CD2	2.39	0.57
2:B:289:TYR:HD2	2:B:292:THR:H	1.52	0.57
1:F:528:VAL:HG12	1:F:629:PHE:CD1	2.40	0.57
1:F:1897:ASN:HD22	1:F:1911:LEU:HG	1.69	0.57
1:F:3829:LEU:HB3	1:F:3833:ARG:HH21	1.70	0.57
2:G:86:VAL:HG13	2:G:104:VAL:HA	1.87	0.57
2:G:206:LYS:HG2	2:G:207:LYS:H	1.70	0.57
2:G:270:SER:H	2:G:375:VAL:HB	1.70	0.57
2:G:302:THR:OG1	3:H:289:ILE:HG23	2.05	0.57
2:G:320:GLN:NE2	3:H:276:TRP:HA	2.19	0.57
2:G:362:LEU:HD22	2:G:363:ARG:HH22	1.70	0.57
3:H:602:VAL:HA	3:H:609:PHE:CD2	2.39	0.57
6:D:19:DA:C2	6:D:20:DT:C2	2.93	0.57
1:A:13:LEU:HD13	1:A:59:PHE:HD1	1.70	0.56
1:A:163:LYS:HB3	2:B:313:PRO:HB3	1.87	0.56
1:A:339:GLN:HB3	3:C:572:GLY:HA3	1.86	0.56
1:A:1359:LEU:H	1:A:1361:LYS:HZ2	1.53	0.56
1:A:1674:THR:O	1:A:1677:SER:OG	2.22	0.56
1:A:2881:LEU:HA	1:A:2886:GLN:NE2	2.20	0.56
1:A:2954:GLN:HA	1:A:2957:LEU:HB3	1.87	0.56
1:A:2973:ASP:OD1	1:A:2974:GLU:N	2.37	0.56
1:A:3315:TYR:O	1:A:3319:ASN:N	2.38	0.56
2:B:375:VAL:HG13	3:C:541:GLU:HG3	1.85	0.56
3:C:31:PHE:CE2	3:C:100:PRO:HD3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:378:SER:O	3:C:382:HIS:ND1	2.38	0.56
1:F:153:PHE:HD1	1:F:178:LEU:HD11	1.69	0.56
1:F:293:LEU:O	1:F:297:LEU:HD23	2.05	0.56
1:F:663:ILE:HG22	1:F:665:GLY:H	1.70	0.56
1:F:2348:GLN:HA	1:F:2351:GLN:HG2	1.85	0.56
1:F:2586:PHE:CB	1:F:2776:ARG:HE	2.18	0.56
1:F:3005:LEU:HD23	1:F:3254:LEU:HD13	1.86	0.56
1:F:3125:ARG:O	1:F:3129:LEU:HG	2.05	0.56
1:F:3319:ASN:O	1:F:3322:ALA:N	2.38	0.56
2:G:459:VAL:HG12	2:G:463:LYS:HE2	1.87	0.56
3:H:408:ALA:HB1	3:H:419:LEU:HD12	1.87	0.56
1:A:386:VAL:O	1:A:390:GLN:NE2	2.38	0.56
1:A:734:LEU:HD13	1:A:768:VAL:HG23	1.87	0.56
3:C:381:ILE:HG21	3:C:417:GLU:HB2	1.86	0.56
1:F:1795:VAL:HA	1:F:1798:LEU:HG	1.87	0.56
1:F:1826:THR:O	1:F:1830:HIS:N	2.35	0.56
1:F:2258:GLU:O	1:F:2261:SER:OG	2.21	0.56
1:F:3530:VAL:O	1:F:3534:ILE:HG12	2.05	0.56
1:F:3859:TYR:HB3	1:F:4077:TYR:HE1	1.69	0.56
3:H:645:GLU:HA	3:H:648:LYS:HE2	1.87	0.56
4:J:21:DA:H1'	4:J:22:DG:C8	2.39	0.56
1:A:363:ILE:HA	1:A:366:TYR:HD2	1.69	0.56
1:A:454:GLN:HA	1:A:457:CYS:HB2	1.88	0.56
1:A:623:PHE:O	1:A:626:LEU:HG	2.06	0.56
1:A:703:CYS:HB2	1:A:707:PHE:CZ	2.40	0.56
1:A:957:PRO:HB3	1:A:1004:GLN:HG3	1.86	0.56
1:A:997:ASN:ND2	1:A:1000:LYS:H	2.02	0.56
1:A:1154:PRO:HG2	1:A:1157:PHE:HD2	1.69	0.56
1:A:1444:ASP:O	1:A:1447:ARG:HG2	2.05	0.56
1:A:3263:HIS:O	1:A:3267:LYS:N	2.38	0.56
1:A:3263:HIS:HA	1:A:3266:SER:HB3	1.87	0.56
1:A:3729:MET:O	1:A:3734:ARG:HA	2.06	0.56
1:A:3831:ASP:HB3	1:A:3835:PRO:HG2	1.87	0.56
3:C:59:PHE:HB3	3:C:110:ALA:HB2	1.87	0.56
3:C:496:HIS:CE1	3:C:506:PRO:HA	2.40	0.56
1:F:468:LEU:HD21	1:F:478:CYS:HB2	1.88	0.56
1:F:562:HIS:CE1	1:F:563:LEU:HG	2.41	0.56
1:F:1738:ASN:HA	1:F:1741:ASP:HB2	1.87	0.56
1:F:2324:GLY:HA2	1:F:2367:VAL:HG23	1.87	0.56
1:F:3360:LEU:O	1:F:3364:GLY:N	2.39	0.56
1:F:3658:ASP:OD1	1:F:3659:PHE:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:6009:UNK:O	1:F:6013:UNK:N	2.38	0.56
2:G:34:GLY:HA2	2:G:160:LYS:HG3	1.86	0.56
3:H:305:VAL:O	3:H:307:LYS:NZ	2.34	0.56
3:H:663:GLN:O	3:H:666:VAL:HG12	2.05	0.56
7:E:32:DA:H2"	7:E:33:DA:N7	2.20	0.56
7:E:34:DC:H2"	7:E:35:DT:C6	2.40	0.56
1:A:1338:VAL:HA	1:A:1341:ILE:HD12	1.87	0.56
1:A:1515:LEU:HD11	1:A:1566:THR:HB	1.86	0.56
1:A:2184:TYR:O	1:A:2187:VAL:HG22	2.06	0.56
1:A:2332:GLU:O	1:A:2334:LYS:N	2.37	0.56
1:F:360:SER:O	1:F:364:ARG:HG3	2.04	0.56
1:F:1056:THR:HA	1:F:1059:LEU:HD12	1.88	0.56
1:F:3904:PHE:CE1	1:F:3937:VAL:HB	2.41	0.56
1:F:4100:GLU:O	1:F:4104:VAL:HG23	2.06	0.56
2:G:273:ILE:N	2:G:273:ILE:HD12	2.20	0.56
3:H:118:ILE:O	3:H:122:THR:HG23	2.05	0.56
1:A:760:LEU:HD11	1:A:799:TYR:N	2.20	0.56
1:A:1142:HIS:O	1:A:1146:ASN:N	2.38	0.56
1:A:2190:VAL:HA	1:A:2193:ILE:HD12	1.87	0.56
1:A:3673:ASP:OD1	1:A:3673:ASP:N	2.37	0.56
1:A:3724:GLU:HB2	1:A:3741:ARG:HH22	1.71	0.56
1:A:6007:UNK:O	1:A:6011:UNK:N	2.39	0.56
3:C:655:PHE:CZ	3:C:659:LEU:HD11	2.40	0.56
1:F:238:MET:SD	1:F:282:PHE:HA	2.45	0.56
1:F:256:ILE:HD13	3:H:554:PHE:HA	1.87	0.56
1:F:493:LYS:HZ1	1:F:523:THR:HA	1.70	0.56
1:F:934:LEU:HA	1:F:937:MET:HE3	1.87	0.56
1:F:972:LEU:HB3	1:F:984:TYR:OH	2.05	0.56
1:F:2190:VAL:HA	1:F:2193:ILE:HD12	1.87	0.56
1:F:2429:ASP:OD1	1:F:2430:GLU:N	2.38	0.56
1:F:2887:PRO:HA	1:F:2890:ILE:HB	1.86	0.56
1:A:2434:VAL:O	1:A:2438:ILE:HG12	2.06	0.56
3:C:615:GLN:N	3:C:615:GLN:OE1	2.38	0.56
1:F:202:GLY:O	1:F:206:THR:OG1	2.22	0.56
1:F:1038:LYS:HB2	1:F:1042:LYS:HE2	1.88	0.56
1:F:1769:GLU:H	1:F:1772:HIS:CE1	2.23	0.56
1:F:2332:GLU:O	1:F:2333:ARG:HD2	2.06	0.56
1:F:2512:ASP:OD1	1:F:2513:GLU:N	2.38	0.56
1:F:2522:ARG:HA	1:F:2525:TRP:HD1	1.70	0.56
1:F:3189:PHE:CZ	1:F:3193:ILE:HD11	2.41	0.56
1:F:3594:ALA:HA	1:F:4032:ASN:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:363:ARG:NH1	3:H:269:GLN:OE1	2.39	0.56
1:A:833:HIS:HE1	1:A:837:THR:HG23	1.70	0.56
1:A:1188:ILE:HG13	1:A:1189:GLU:N	2.20	0.56
1:A:2534:ASN:HB3	1:A:2537:ASP:CB	2.34	0.56
1:A:4102:THR:HA	1:A:4105:LYS:HE2	1.88	0.56
1:F:553:VAL:HG11	1:F:1550:VAL:HG22	1.88	0.56
1:F:878:GLU:HB2	1:F:883:TYR:CE1	2.40	0.56
1:F:1261:LEU:HD21	1:F:1337:VAL:HA	1.87	0.56
1:F:1825:LEU:HA	1:F:1828:LEU:HB2	1.87	0.56
1:F:2151:ILE:HD13	1:F:2188:GLU:HG3	1.87	0.56
1:F:2224:PHE:HD1	1:F:2231:PHE:CE1	2.24	0.56
1:F:3988:LEU:HA	1:F:3991:PHE:CD2	2.41	0.56
2:G:332:GLU:O	2:G:335:GLU:HG2	2.05	0.56
4:J:19:DA:N6	5:I:39:DA:N1	2.52	0.56
1:A:1107:TYR:CE2	1:A:1111:LEU:HD11	2.40	0.56
1:A:1401:ASN:HA	1:A:1404:LYS:HE3	1.87	0.56
1:A:2213:ASN:HA	1:A:2216:LEU:HD12	1.88	0.56
1:A:2447:LYS:HD2	1:A:2449:VAL:HG12	1.87	0.56
1:A:3247:ARG:HH12	1:A:3279:SER:HA	1.71	0.56
1:A:3534:ILE:HD13	1:A:3572:ILE:HD11	1.88	0.56
2:B:344:GLY:O	2:B:399:ARG:NH1	2.31	0.56
2:B:372:GLU:OE1	2:B:377:GLY:N	2.30	0.56
2:B:456:PRO:HA	2:B:459:VAL:HG23	1.86	0.56
1:F:3730:ALA:HA	1:F:3734:ARG:HE	1.70	0.56
3:H:489:ARG:NH2	3:H:493:CYS:SG	2.79	0.56
3:H:677:ILE:HA	3:H:680:GLN:HB3	1.88	0.56
1:A:862:LEU:HD22	1:A:867:ASN:HB3	1.87	0.56
1:A:921:ALA:H	1:A:927:LYS:NZ	2.04	0.56
1:A:1955:VAL:HG22	1:A:1956:PHE:H	1.71	0.56
1:A:2216:LEU:HA	1:A:2219:LEU:HD12	1.88	0.56
1:A:3844:THR:HG23	1:A:3850:HIS:CE1	2.41	0.56
2:B:238:LYS:HD2	2:B:241:ASP:HB2	1.88	0.56
1:F:17:GLU:HA	1:F:20:SER:OG	2.06	0.56
1:F:484:HIS:HD2	1:F:571:SER:HA	1.70	0.56
1:F:1346:THR:HG22	1:F:1402:LEU:HD13	1.87	0.56
1:F:1512:SER:HA	1:F:1563:PHE:HE2	1.71	0.56
1:F:1674:THR:O	1:F:1677:SER:OG	2.20	0.56
1:F:2821:ASP:HA	1:F:2829:LYS:HD3	1.87	0.56
1:F:2878:ALA:HA	1:F:2881:LEU:HD12	1.88	0.56
1:F:3915:HIS:O	1:F:3920:ILE:N	2.36	0.56
1:F:3963:LEU:HD11	1:F:3968:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:164:LYS:HG3	2:G:198:ILE:HG13	1.87	0.56
2:G:409:TYR:HB3	2:G:436:PHE:HE1	1.71	0.56
3:H:395:TYR:N	3:H:404:GLN:O	2.32	0.56
1:A:73:LEU:HD12	1:A:75:SER:H	1.71	0.56
1:A:305:ASN:O	1:A:309:LYS:NZ	2.38	0.56
1:A:1886:LYS:O	1:A:1889:VAL:HG12	2.06	0.56
1:A:2446:LEU:HD11	1:A:2450:GLU:HB2	1.87	0.56
1:A:2939:LEU:O	1:A:2942:ILE:HG23	2.05	0.56
1:A:3235:LYS:O	1:A:3239:LYS:HG2	2.06	0.56
1:A:3700:GLU:HA	1:A:3718:ARG:HA	1.88	0.56
1:F:22:ALA:HB3	1:F:34:LEU:HD21	1.88	0.56
1:F:888:ARG:NH1	1:F:3890:MET:HB3	2.21	0.56
1:F:892:LEU:N	1:F:908:ASP:OD2	2.38	0.56
1:F:1844:VAL:HB	1:F:1898:GLN:HB3	1.88	0.56
1:F:2470:ARG:HA	1:F:2473:MET:CE	2.36	0.56
2:G:504:VAL:HG13	2:G:508:LEU:HD13	1.86	0.56
3:H:663:GLN:HG2	3:H:702:LYS:HD3	1.88	0.56
1:A:1431:LEU:HB3	1:A:1448:LEU:HD21	1.88	0.55
1:A:2920:VAL:HA	1:A:2923:TRP:CD1	2.40	0.55
1:A:3154:GLN:O	1:A:3158:LYS:HG3	2.06	0.55
1:A:3525:TYR:OH	1:A:3711:PRO:HB3	2.06	0.55
1:F:214:GLU:HB2	1:F:217:LEU:HD11	1.88	0.55
1:F:573:LEU:HD11	1:F:649:PHE:HD1	1.70	0.55
1:F:1264:LEU:HD22	1:F:1340:ARG:HB3	1.88	0.55
1:F:1483:LEU:HD11	1:F:1518:ALA:HB1	1.87	0.55
1:F:1488:TYR:HA	1:F:1559:PHE:CZ	2.41	0.55
1:F:1574:ASN:HD21	1:F:1578:ALA:H	1.53	0.55
1:F:2387:PRO:HA	1:F:2394:LYS:HZ1	1.69	0.55
1:F:2425:ARG:CZ	1:F:2457:PRO:HB3	2.36	0.55
1:F:2492:ASP:OD1	1:F:2493:ASN:N	2.40	0.55
1:F:3096:VAL:HG13	1:F:3100:LYS:NZ	2.22	0.55
1:F:3097:ASP:N	1:F:3097:ASP:OD1	2.38	0.55
1:F:3495:PHE:HA	1:F:3498:TRP:CD1	2.41	0.55
1:F:3667:LEU:O	1:F:3671:ASN:ND2	2.39	0.55
2:G:270:SER:OG	2:G:378:SER:OG	2.23	0.55
3:H:57:VAL:HG12	3:H:79:VAL:HG13	1.87	0.55
1:A:356:ASN:HD21	1:A:406:ARG:HH11	1.54	0.55
1:A:1181:THR:O	1:A:1185:HIS:ND1	2.39	0.55
1:A:1899:VAL:HB	1:A:1911:LEU:HD12	1.88	0.55
1:A:2945:SER:O	1:A:3975:LYS:NZ	2.32	0.55
1:A:3061:LEU:O	1:A:3065:ILE:HG13	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:419:GLU:H	2:B:426:GLN:HE22	1.54	0.55
2:B:482:VAL:O	2:B:486:HIS:ND1	2.39	0.55
1:F:1291:LEU:HD13	1:F:1363:LEU:HB2	1.87	0.55
1:F:1407:LYS:HD3	1:F:1463:LEU:HD21	1.88	0.55
1:F:1735:ARG:HA	1:F:1738:ASN:ND2	2.20	0.55
1:F:2477:LEU:HD21	1:F:2505:VAL:HG23	1.88	0.55
1:F:3096:VAL:HG13	1:F:3100:LYS:HZ1	1.69	0.55
2:G:95:ASN:OD1	2:G:98:ASN:HA	2.06	0.55
3:H:384:LEU:HD23	3:H:410:PRO:HG3	1.87	0.55
3:H:647:ILE:HG23	3:H:652:GLU:HB3	1.87	0.55
1:A:923:ASP:O	1:A:926:THR:N	2.40	0.55
1:A:2327:LEU:HB3	1:A:2371:PHE:CG	2.42	0.55
1:A:3443:PRO:CB	1:A:3478:GLU:CB	2.61	0.55
1:A:3763:ARG:O	1:A:3767:LEU:HG	2.06	0.55
1:A:3920:ILE:HG23	1:A:3944:HIS:HD2	1.69	0.55
2:B:193:LEU:O	2:B:197:GLY:N	2.34	0.55
1:F:314:SER:HA	1:F:317:GLU:HG3	1.88	0.55
1:F:708:VAL:HG22	1:F:740:ILE:HG13	1.88	0.55
1:F:1597:LEU:O	1:F:1601:LEU:HG	2.06	0.55
1:F:1669:PRO:HA	1:F:1672:PHE:HB3	1.88	0.55
1:F:2254:ARG:HA	1:F:2257:PHE:HB3	1.88	0.55
1:F:2414:GLN:HG3	2:G:148:TRP:CZ2	2.40	0.55
1:F:3493:TRP:HB3	1:F:3525:TYR:CE2	2.41	0.55
1:F:4002:MET:O	1:F:4006:VAL:HG12	2.05	0.55
2:G:91:GLU:OE2	2:G:137:HIS:N	2.39	0.55
2:G:329:LEU:HB3	2:G:333:GLU:OE2	2.06	0.55
3:H:36:LYS:HZ1	3:H:231:LEU:HD21	1.72	0.55
1:A:925:GLN:HE22	1:A:2769:VAL:HA	1.70	0.55
1:A:1513:GLY:O	1:A:1517:LEU:HG	2.06	0.55
1:A:2120:ARG:NH2	1:A:2160:TYR:HA	2.22	0.55
1:A:2563:LEU:HD13	1:A:2795:GLN:HB2	1.88	0.55
1:A:3037:GLN:O	1:A:3041:LEU:HG	2.07	0.55
1:A:3357:ARG:HB3	1:A:3358:ARG:NH1	2.21	0.55
1:A:3739:ILE:H	1:A:3739:ILE:HD12	1.71	0.55
2:B:120:ASP:O	2:B:123:LYS:NZ	2.33	0.55
3:C:87:ASP:HB3	3:C:90:LEU:HD13	1.89	0.55
1:F:860:GLY:HA3	1:F:3136:THR:OG1	2.06	0.55
1:F:899:ARG:NH2	1:F:2533:SER:O	2.38	0.55
1:F:1100:VAL:HB	1:F:1138:ILE:HD12	1.89	0.55
1:F:1224:PHE:HZ	1:F:1281:VAL:HG13	1.71	0.55
1:F:1729:PHE:HB3	1:F:1735:ARG:NH1	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1984:LEU:HA	1:F:2178:GLY:HA3	1.88	0.55
1:F:2154:GLU:OE1	1:F:2154:GLU:N	2.39	0.55
1:F:2851:PHE:CE2	1:F:2853:PRO:HB2	2.41	0.55
1:F:3123:GLN:O	1:F:3127:THR:HG23	2.07	0.55
1:F:3327:ASN:HB2	1:F:3388:ALA:HB2	1.86	0.55
2:G:40:PHE:HB2	2:G:85:VAL:CG1	2.37	0.55
2:G:273:ILE:HG22	2:G:366:LEU:HG	1.88	0.55
2:G:457:GLU:OE2	2:G:458:GLN:NE2	2.38	0.55
1:A:565:TYR:HA	1:A:568:PHE:CD2	2.41	0.55
1:A:1690:GLY:O	1:A:1693:VAL:HG22	2.07	0.55
1:A:1891:ALA:O	1:A:1908:GLY:N	2.40	0.55
1:A:2158:ARG:NH2	1:A:2196:TRP:HB3	2.16	0.55
1:A:2295:GLN:NE2	1:A:2298:GLU:OE1	2.33	0.55
1:A:3029:LYS:HA	1:A:3031:TRP:CD1	2.42	0.55
1:A:3181:ASP:O	1:A:3184:THR:OG1	2.20	0.55
2:B:44:ALA:HB1	2:B:135:MET:HE1	1.89	0.55
3:C:617:ILE:HA	3:C:620:ILE:HD12	1.87	0.55
1:F:982:GLN:HE21	1:F:2591:ILE:HG23	1.72	0.55
1:F:1365:ASN:C	1:F:1370:ARG:HH12	2.10	0.55
1:F:1369:MET:O	1:F:1418:HIS:ND1	2.40	0.55
1:F:1576:ASP:HB2	1:F:1625:HIS:CE1	2.42	0.55
1:F:1946:ASN:HA	1:F:1949:ILE:HD12	1.89	0.55
1:F:2947:ILE:HD11	1:F:2989:ALA:HB3	1.88	0.55
1:F:2962:ARG:NE	1:F:2962:ARG:HA	2.22	0.55
1:F:3098:ARG:H	1:F:3098:ARG:HD3	1.69	0.55
2:G:420:LEU:HB2	2:G:426:GLN:NE2	2.21	0.55
1:A:997:ASN:O	1:A:1001:PHE:HB2	2.07	0.55
2:B:206:LYS:HG2	2:B:207:LYS:H	1.72	0.55
2:B:385:LEU:HA	2:B:388:LYS:HB3	1.88	0.55
3:C:105:ALA:O	3:C:140:SER:OG	2.20	0.55
3:C:437:SER:HB2	3:C:440:ASN:ND2	2.22	0.55
1:F:140:SER:O	1:F:142:ARG:NH1	2.40	0.55
1:F:316:LEU:HD23	1:F:320:LEU:HD23	1.89	0.55
1:F:803:SER:OG	1:F:852:ARG:NH2	2.39	0.55
1:F:1729:PHE:HB3	1:F:1735:ARG:HH12	1.72	0.55
1:F:2320:ALA:HA	1:F:2323:LEU:HD12	1.88	0.55
1:F:3040:TYR:HA	1:F:3043:TYR:CD2	2.37	0.55
1:F:3422:GLN:HE21	1:F:3423:GLN:NE2	2.03	0.55
1:F:3700:GLU:HA	1:F:3718:ARG:HG3	1.88	0.55
3:H:37:VAL:HB	3:H:41:PHE:HE1	1.72	0.55
3:H:106:ASP:HA	3:H:142:PHE:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:234:LEU:HD13	3:H:481:LYS:HZ1	1.72	0.55
1:A:531:PHE:CD2	1:A:633:ILE:HD13	2.41	0.55
1:A:538:ASP:OD1	1:A:539:GLN:N	2.36	0.55
1:A:1353:PRO:O	1:A:1357:LYS:HA	2.07	0.55
1:A:2586:PHE:CZ	1:A:2782:ASP:HB3	2.42	0.55
1:A:2917:PRO:HB2	1:A:2920:VAL:HG22	1.89	0.55
2:B:95:ASN:HD22	2:B:102:ILE:CG2	2.18	0.55
2:B:420:LEU:HD21	2:B:424:LYS:HA	1.88	0.55
3:C:501:PRO:HD2	3:C:502:ARG:HH22	1.70	0.55
1:F:772:ALA:O	1:F:775:GLU:HB3	2.07	0.55
1:F:828:LYS:H	1:F:832:LYS:HZ1	1.54	0.55
1:F:1400:VAL:HA	1:F:1403:MET:HE3	1.88	0.55
1:F:1506:SER:HA	1:F:1509:GLN:HE21	1.71	0.55
1:F:1766:LEU:HG	1:F:1822:ARG:HE	1.72	0.55
2:G:514:MET:SD	2:G:515:ASN:N	2.79	0.55
3:H:232:ARG:HD2	3:H:477:PHE:HE1	1.72	0.55
1:A:435:LEU:HA	1:A:438:LEU:HD12	1.88	0.55
1:A:582:THR:OG1	1:A:615:ALA:N	2.38	0.55
1:A:894:PHE:O	1:A:905:ILE:HG12	2.06	0.55
1:A:1304:HIS:O	1:A:1330:TYR:OH	2.24	0.55
1:A:1444:ASP:N	1:A:1444:ASP:OD1	2.40	0.55
1:A:1492:ALA:HB3	1:A:1495:ASP:OD1	2.07	0.55
1:A:1972:GLU:OE1	1:A:1972:GLU:N	2.38	0.55
1:A:2851:PHE:HB3	1:A:2854:PHE:CB	2.36	0.55
1:A:4062:ASP:HA	1:A:4065:LEU:HB2	1.87	0.55
2:B:40:PHE:HB2	2:B:85:VAL:HG12	1.88	0.55
2:B:361:TYR:H	3:C:267:ILE:HG13	1.72	0.55
3:C:37:VAL:O	3:C:40:MET:HB3	2.07	0.55
3:C:181:GLY:N	3:C:188:HIS:HD1	2.05	0.55
1:F:1297:PHE:HB3	1:F:1367:HIS:CE1	2.42	0.55
1:F:2383:PHE:CD1	1:F:2418:LYS:HE3	2.42	0.55
1:F:2792:THR:O	1:F:2795:GLN:HG3	2.06	0.55
1:F:3557:ARG:HA	1:F:3560:SER:OG	2.07	0.55
1:A:13:LEU:O	1:A:16:GLN:N	2.40	0.55
1:A:407:VAL:O	1:A:449:TYR:CE2	2.49	0.55
1:A:1563:PHE:HB3	1:A:1566:THR:OG1	2.07	0.55
1:A:2230:VAL:HA	1:A:2233:HIS:HB3	1.89	0.55
1:A:2351:GLN:O	1:A:2356:MET:HB2	2.05	0.55
1:A:2886:GLN:HG3	1:A:2929:LEU:HD12	1.89	0.55
1:A:3664:ASN:HA	1:A:3667:LEU:HD12	1.89	0.55
1:A:3739:ILE:HD12	1:A:3739:ILE:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2394:LYS:O	1:F:2398:LEU:HG	2.07	0.55
1:F:2542:LEU:HA	1:F:2545:LEU:HB2	1.89	0.55
1:F:2884:LEU:HD13	1:F:2886:GLN:HE22	1.71	0.55
1:F:3678:GLY:HA3	1:F:3683:CYS:HB2	1.88	0.55
1:F:3700:GLU:HA	1:F:3718:ARG:HA	1.88	0.55
3:H:199:GLU:HA	3:H:202:LYS:HB2	1.89	0.55
1:A:32:HIS:O	1:A:35:ILE:HB	2.07	0.55
1:A:3834:ALA:HA	1:A:3838:GLU:OE2	2.07	0.55
3:C:404:GLN:HB3	3:C:421:TYR:OH	2.07	0.55
1:F:89:LEU:HD23	1:F:133:LYS:HD3	1.89	0.55
1:F:2886:GLN:CD	1:F:2886:GLN:H	2.11	0.55
1:F:3324:ARG:NE	1:F:3391:ALA:O	2.40	0.55
2:G:271:VAL:HG12	2:G:370:PRO:N	2.20	0.55
2:G:319:SER:N	3:H:277:THR:O	2.38	0.55
1:A:79:ARG:HH21	1:A:124:LYS:N	2.02	0.54
1:A:563:LEU:O	1:A:567:GLU:OE1	2.25	0.54
1:A:773:LEU:HA	1:A:776:TRP:CE3	2.41	0.54
1:A:889:GLU:C	1:A:3889:ARG:HH22	2.11	0.54
1:A:1656:ASP:OD1	1:A:1657:SER:N	2.40	0.54
1:A:1668:PHE:HB3	1:A:1669:PRO:HD3	1.89	0.54
1:A:2375:ALA:O	1:A:2378:PHE:N	2.25	0.54
1:A:2426:HIS:NE2	1:A:2428:ASP:HB2	2.22	0.54
1:A:2873:PRO:HB2	1:A:2925:GLU:HG3	1.88	0.54
1:A:3852:VAL:HA	1:A:3855:TYR:CE1	2.41	0.54
1:A:4071:ALA:O	1:A:4074:PHE:HB2	2.07	0.54
3:C:300:ASP:OD1	3:C:301:ASP:N	2.40	0.54
3:C:460:SER:O	3:C:461:MET:HE2	2.07	0.54
1:F:236:LYS:HE2	1:F:239:GLU:HB2	1.89	0.54
1:F:759:GLY:HA2	1:F:765:LEU:HD23	1.88	0.54
1:F:1232:PRO:HB2	1:F:3695:LEU:HD13	1.88	0.54
1:F:1664:SER:HA	1:F:1668:PHE:HD2	1.71	0.54
1:F:1675:TYR:CZ	1:F:1679:LEU:HD21	2.43	0.54
1:F:2852:PRO:HA	1:F:2855:VAL:HG22	1.89	0.54
1:F:2856:SER:HA	1:F:2859:GLN:NE2	2.21	0.54
1:F:3693:GLU:HG2	1:F:3696:ARG:HE	1.72	0.54
3:H:45:GLN:O	3:H:50:ASN:N	2.40	0.54
3:H:457:LEU:HA	3:H:460:SER:HB3	1.90	0.54
1:A:493:LYS:HD3	1:A:522:PRO:HB3	1.88	0.54
1:A:744:ASP:OD1	1:A:746:ARG:HG2	2.07	0.54
1:A:1359:LEU:H	1:A:1361:LYS:NZ	2.04	0.54
1:A:1718:ILE:HB	1:A:1722:PHE:CE2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2328:ARG:HB2	1:A:2370:SER:O	2.07	0.54
1:A:2395:THR:OG1	1:A:2431:ARG:NH2	2.40	0.54
1:A:3755:GLY:HA2	1:A:3799:ARG:HG2	1.89	0.54
1:A:3791:TYR:HB3	1:A:3806:LEU:HD11	1.88	0.54
2:B:237:SER:OG	2:B:238:LYS:N	2.38	0.54
2:B:273:ILE:HG22	2:B:366:LEU:HG	1.89	0.54
3:C:60:GLY:H	3:C:105:ALA:HB3	1.71	0.54
1:F:95:LYS:HE3	1:F:97:GLY:C	2.28	0.54
1:F:762:TYR:O	1:F:765:LEU:HB3	2.07	0.54
1:F:1058:SER:O	1:F:1062:ARG:HG2	2.07	0.54
1:F:1527:ARG:HH22	1:F:1531:LEU:HD21	1.73	0.54
1:F:1676:ILE:HA	1:F:1679:LEU:HD12	1.89	0.54
1:F:3269:ARG:HB3	1:F:3272:TRP:HE3	1.73	0.54
2:G:99:PHE:HB2	2:G:102:ILE:HD13	1.89	0.54
2:G:259:LEU:HG	2:G:260:LYS:H	1.72	0.54
1:A:1917:LYS:NZ	3:H:725:VAL:HA	2.22	0.54
1:A:2893:LEU:HD12	1:A:2926:LEU:HD13	1.89	0.54
1:A:2996:LEU:HA	1:A:2999:LEU:HD12	1.87	0.54
1:A:3603:LYS:HD2	1:A:3651:LEU:O	2.07	0.54
1:A:3844:THR:HA	1:A:3850:HIS:CD2	2.42	0.54
2:B:336:GLU:OE2	2:B:339:ARG:NH2	2.40	0.54
1:F:138:PHE:O	1:F:142:ARG:NH2	2.37	0.54
1:F:876:SER:O	1:F:880:MET:HG3	2.07	0.54
1:F:1770:GLN:HB2	1:F:1814:PHE:CZ	2.42	0.54
1:F:1774:MET:HB3	1:F:1777:LEU:HD23	1.89	0.54
1:F:1862:THR:O	1:F:1866:GLN:HG3	2.07	0.54
1:F:3457:ASN:HB2	1:F:3491:PRO:HG2	1.90	0.54
3:H:339:CYS:HB2	3:H:396:ALA:HB3	1.89	0.54
1:A:770:LEU:O	1:A:773:LEU:N	2.40	0.54
1:A:1834:ASP:HA	1:A:1837:ARG:HH12	1.71	0.54
1:A:1893:GLU:HG2	1:A:1894:SER:N	2.22	0.54
1:F:1767:CYS:HA	1:F:1822:ARG:NH2	2.23	0.54
1:F:3065:ILE:HD12	1:F:3068:ALA:HB3	1.90	0.54
1:F:3856:MET:HE3	1:F:4072:PRO:HD2	1.89	0.54
1:F:3924:HIS:HD2	1:F:3926:ASN:HB2	1.71	0.54
1:F:4039:TYR:HD2	1:F:4066:LEU:HG	1.72	0.54
1:A:148:LYS:O	1:A:152:LEU:HD23	2.06	0.54
1:A:3516:HIS:NE2	1:A:3520:GLU:OE2	2.41	0.54
2:B:287:LYS:HB2	3:C:310:ILE:HD11	1.90	0.54
3:C:411:HIS:HB3	3:C:418:CYS:HB3	1.90	0.54
1:F:194:GLU:HA	1:F:197:PHE:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2154:GLU:HA	1:F:2157:PHE:CE1	2.42	0.54
1:F:2332:GLU:O	1:F:2333:ARG:NH1	2.37	0.54
1:F:3090:TYR:HE2	1:F:3102:TYR:CD2	2.24	0.54
1:F:3123:GLN:HG2	1:F:3124:SER:N	2.23	0.54
2:G:397:LEU:HA	2:G:412:ALA:HA	1.90	0.54
2:G:471:PHE:HD2	3:H:344:GLY:HA3	1.71	0.54
2:G:473:TYR:HB2	3:H:346:CYS:HB3	1.90	0.54
1:A:386:VAL:HG12	1:A:390:GLN:NE2	2.16	0.54
1:A:857:GLN:O	1:A:861:SER:N	2.27	0.54
1:A:1039:TRP:CD1	1:A:1043:GLN:HB2	2.42	0.54
1:A:1801:VAL:HA	1:A:1804:MET:HB3	1.90	0.54
1:A:1803:GLU:HA	1:A:1806:ARG:NH1	2.23	0.54
1:A:2429:ASP:OD1	1:A:2430:GLU:N	2.41	0.54
1:A:2952:ILE:HG12	1:A:2972:TYR:CE1	2.43	0.54
1:A:3544:ASP:OD2	1:A:3546:SER:OG	2.26	0.54
2:B:214:SER:HB3	2:B:218:ARG:HG2	1.89	0.54
3:C:271:ARG:NH2	3:C:272:VAL:O	2.40	0.54
1:F:80:GLU:HA	1:F:83:GLU:HG2	1.89	0.54
1:F:307:GLU:HA	1:F:310:LYS:NZ	2.22	0.54
1:F:1358:LEU:HD13	1:F:1362:ASP:HB3	1.90	0.54
1:F:2353:GLN:HB3	1:F:2360:PHE:CD1	2.42	0.54
1:F:2499:PHE:CE1	1:F:2503:LYS:HE2	2.42	0.54
1:F:2522:ARG:HA	1:F:2525:TRP:CD1	2.43	0.54
1:F:3260:LYS:O	1:F:3264:LYS:NZ	2.34	0.54
1:F:3341:LEU:HD22	1:F:3374:ILE:HG21	1.89	0.54
2:G:482:VAL:HG12	2:G:486:HIS:HE1	1.72	0.54
3:H:552:GLU:HG3	3:H:553:ILE:N	2.21	0.54
1:A:105:VAL:HG13	1:A:108:LYS:HE3	1.88	0.54
1:A:886:TRP:CD2	1:A:964:ARG:HG3	2.43	0.54
1:A:1082:PHE:HA	1:A:1085:ILE:HD12	1.90	0.54
1:A:2525:TRP:HB3	1:A:2561:PHE:CZ	2.36	0.54
1:A:3507:ASP:OD2	1:A:3539:SER:OG	2.24	0.54
1:A:3793:VAL:HB	1:A:3802:LEU:O	2.08	0.54
1:A:3863:ASN:HB3	1:A:3866:GLU:HB3	1.90	0.54
1:F:2126:MET:HA	1:F:2129:LEU:HB2	1.89	0.54
1:F:3274:VAL:O	1:F:3277:VAL:N	2.41	0.54
1:F:3496:ILE:HD13	1:F:3707:GLY:HA2	1.89	0.54
2:G:50:GLU:O	2:G:59:PRO:HD2	2.08	0.54
2:G:193:LEU:O	2:G:197:GLY:N	2.38	0.54
1:A:147:PHE:CE2	1:A:148:LYS:HD3	2.43	0.54
1:A:318:SER:O	1:A:322:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1638:PRO:HB2	1:A:1640:GLU:OE1	2.07	0.54
1:A:2206:PRO:HA	1:A:2209:GLU:HB3	1.89	0.54
1:A:2920:VAL:HA	1:A:2923:TRP:HD1	1.73	0.54
1:A:3963:LEU:HD12	1:A:3967:PHE:HD2	1.72	0.54
1:A:3989:ARG:HH11	1:A:3989:ARG:HG3	1.72	0.54
2:B:255:ALA:HB3	2:B:274:TYR:CD2	2.42	0.54
3:C:250:ARG:NE	3:C:252:THR:OG1	2.41	0.54
1:F:1685:ASP:OD1	1:F:1688:LEU:N	2.37	0.54
1:F:3588:TRP:HB2	1:F:3612:ARG:NH1	2.23	0.54
1:F:3641:ASP:C	1:F:3643:HIS:H	2.12	0.54
1:F:3863:ASN:HD21	1:F:3866:GLU:HB2	1.73	0.54
2:G:75:ILE:HG12	2:G:111:PRO:HB3	1.89	0.54
2:G:515:ASN:O	2:G:519:GLY:N	2.41	0.54
3:H:666:VAL:HG22	3:H:675:TRP:CE3	2.43	0.54
1:A:77:GLU:O	1:A:80:GLU:HG3	2.07	0.54
1:A:1696:LEU:HD13	1:A:1699:PHE:HB2	1.90	0.54
1:A:3037:GLN:OE1	1:A:3037:GLN:N	2.40	0.54
1:A:3123:GLN:HA	1:A:3126:LEU:HB3	1.90	0.54
1:F:42:CYS:O	1:F:46:SER:N	2.41	0.54
1:F:580:ASP:OD1	1:F:581:LEU:N	2.41	0.54
1:F:785:MET:HB3	1:F:789:TYR:CE1	2.43	0.54
1:F:1412:LYS:HA	1:F:1415:LEU:HD12	1.89	0.54
1:F:1418:HIS:ND1	1:F:1421:GLU:OE2	2.41	0.54
1:F:2257:PHE:HA	1:F:2260:PHE:HE2	1.71	0.54
1:F:2452:ARG:NH1	1:F:2497:GLU:OE2	2.41	0.54
2:G:273:ILE:CG2	2:G:368:VAL:HG22	2.38	0.54
1:A:389:ILE:HD13	1:A:431:TYR:CD2	2.43	0.54
1:A:977:ASP:HB3	1:A:980:THR:HG22	1.89	0.54
1:A:1394:HIS:CE1	1:A:1398:VAL:HB	2.42	0.54
1:A:2169:LEU:HD21	1:A:2208:ASP:HA	1.90	0.54
1:A:2245:TRP:O	1:A:2246:LYS:HG3	2.08	0.54
1:A:2481:HIS:CE1	1:A:2485:ARG:HD3	2.43	0.54
1:A:3772:ASN:ND2	1:A:3788:LEU:HB3	2.22	0.54
1:A:4012:ASP:HB3	1:A:4014:LYS:HG2	1.89	0.54
2:B:470:ARG:NH2	3:C:347:LYS:HG2	2.22	0.54
3:C:675:TRP:HA	3:C:678:VAL:HB	1.90	0.54
1:F:721:TYR:C	1:F:722:LYS:HZ3	2.11	0.54
1:F:1757:MET:SD	1:F:1757:MET:N	2.81	0.54
1:F:3253:SER:HA	1:F:3256:MET:HB2	1.89	0.54
1:F:3606:ILE:O	1:F:3609:MET:HG3	2.08	0.54
4:J:21:DA:H2"	4:J:22:DG:OP2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:25:DT:H2"	4:J:26:DT:H5"	1.89	0.54
1:A:783:HIS:HA	1:A:786:GLN:HG2	1.90	0.53
1:A:854:ARG:HA	1:A:857:GLN:OE1	2.08	0.53
1:A:1512:SER:O	1:A:1515:LEU:HG	2.09	0.53
1:A:2455:LEU:HA	1:A:2458:VAL:HB	1.90	0.53
1:A:2851:PHE:CD2	1:A:2854:PHE:HB2	2.42	0.53
1:A:3099:ALA:O	1:A:3102:TYR:HB2	2.07	0.53
1:A:3472:ILE:HA	1:A:3479:THR:CB	2.39	0.53
2:B:261:LEU:HD23	2:B:271:VAL:HG21	1.89	0.53
1:F:852:ARG:O	1:F:856:VAL:HG23	2.09	0.53
1:F:925:GLN:HB2	1:F:2800:ARG:NH2	2.23	0.53
1:F:1118:GLU:HG3	1:F:1121:LEU:H	1.72	0.53
1:F:1369:MET:HG3	1:F:1418:HIS:CE1	2.43	0.53
1:F:2578:GLU:OE1	1:F:2578:GLU:N	2.41	0.53
1:F:3090:TYR:HB2	1:F:3099:ALA:HB2	1.90	0.53
2:G:91:GLU:H	2:G:135:MET:HE2	1.73	0.53
3:H:39:THR:HA	3:H:42:VAL:HG12	1.91	0.53
3:H:133:GLU:HB3	3:H:135:PHE:HE1	1.73	0.53
3:H:349:SER:OG	3:H:350:GLN:OE1	2.20	0.53
3:H:659:LEU:HB3	3:H:688:LYS:HZ3	1.71	0.53
6:D:23:DT:H2'	6:D:24:DT:H71	1.90	0.53
1:A:162:LEU:HD12	2:B:299:LYS:HD2	1.88	0.53
1:A:197:PHE:CE1	1:A:231:LEU:HD22	2.41	0.53
1:A:289:ASN:OD1	1:A:293:LEU:HG	2.08	0.53
1:A:299:LYS:HA	1:A:299:LYS:HE2	1.89	0.53
1:A:524:TYR:O	1:A:629:PHE:HE1	1.90	0.53
1:A:1108:MET:HG3	1:A:1111:LEU:HD12	1.89	0.53
1:A:1854:ARG:NH1	1:A:1863:PHE:HB2	2.23	0.53
1:A:2925:GLU:O	1:A:2928:LYS:HG3	2.09	0.53
1:A:3059:GLN:HB3	1:A:3063:THR:HG23	1.90	0.53
1:A:3629:ARG:HD2	1:A:3632:PHE:CD2	2.41	0.53
1:A:3825:LYS:HD2	1:A:3830:SER:N	2.24	0.53
1:A:3992:ARG:NH2	1:A:4052:ALA:O	2.41	0.53
2:B:384:ALA:HB1	3:C:451:LEU:HD23	1.91	0.53
3:C:512:ILE:HD13	3:C:515:MET:HE3	1.90	0.53
1:F:538:ASP:OD1	1:F:538:ASP:N	2.41	0.53
1:F:889:GLU:OE1	1:F:891:ARG:HG2	2.08	0.53
1:F:1017:ILE:O	1:F:1026:ARG:HD3	2.07	0.53
1:F:1025:LEU:HA	1:F:1028:PHE:HB3	1.90	0.53
1:F:2464:HIS:CD2	1:F:2466:SER:HB3	2.41	0.53
1:F:2981:TRP:HB3	1:F:2983:ASP:OD1	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:237:SER:OG	2:G:238:LYS:N	2.42	0.53
2:G:299:LYS:HG3	3:H:294:VAL:H	1.73	0.53
2:G:365:SER:HB2	2:G:435:VAL:HA	1.90	0.53
1:A:146:GLU:HB2	1:A:183:GLU:HB2	1.89	0.53
1:A:793:LEU:HD22	1:A:869:ASN:HD22	1.73	0.53
1:A:1335:CYS:SG	1:A:1382:ILE:HG13	2.48	0.53
1:A:1417:THR:HG22	1:A:1421:GLU:OE2	2.08	0.53
1:A:2521:ILE:O	1:A:2525:TRP:HB2	2.09	0.53
1:A:3113:ASN:O	1:A:3117:ILE:HG12	2.09	0.53
1:A:3180:ASP:OD1	1:A:3181:ASP:N	2.41	0.53
2:B:260:LYS:HD2	2:B:270:SER:HA	1.90	0.53
2:B:332:GLU:O	2:B:335:GLU:HG2	2.08	0.53
3:C:212:MET:HE1	3:C:220:GLY:HA2	1.90	0.53
3:C:454:VAL:HG12	3:C:458:ILE:HD11	1.90	0.53
3:C:651:GLU:HA	3:C:653:GLN:HE22	1.73	0.53
3:C:671:LEU:HB2	3:C:674:PHE:HE1	1.73	0.53
1:F:321:LYS:O	1:F:324:SER:OG	2.23	0.53
1:F:2268:LYS:HE3	1:F:2311:ARG:HH22	1.74	0.53
1:F:2287:PRO:HD3	1:F:2329:TYR:HD2	1.73	0.53
1:F:2521:ILE:HG13	1:F:2525:TRP:NE1	2.24	0.53
1:F:2524:PHE:O	1:F:2530:ARG:HD2	2.08	0.53
1:A:165:LYS:NZ	1:A:167:PRO:O	2.38	0.53
1:A:790:LYS:HA	1:A:869:ASN:HB3	1.90	0.53
1:A:1107:TYR:OH	1:A:1127:CYS:O	2.21	0.53
1:A:1876:ILE:HG13	1:A:1877:LEU:N	2.24	0.53
1:A:1935:GLU:O	1:A:1939:LEU:HD23	2.09	0.53
1:A:3227:ILE:O	1:A:3231:ILE:HG13	2.09	0.53
1:A:4061:CYS:SG	1:A:4078:VAL:HG23	2.48	0.53
3:C:12:LEU:N	3:C:55:ALA:O	2.30	0.53
3:C:675:TRP:O	3:C:679:VAL:HG22	2.09	0.53
3:C:686:ILE:HG13	3:C:688:LYS:HE3	1.89	0.53
1:F:629:PHE:CZ	1:F:633:ILE:HG13	2.43	0.53
1:F:977:ASP:O	1:F:981:ARG:HG2	2.09	0.53
1:F:1082:PHE:HA	1:F:1085:ILE:HG12	1.89	0.53
1:F:1336:THR:O	1:F:1340:ARG:HG2	2.08	0.53
1:F:2457:PRO:HA	1:F:2460:GLU:CD	2.29	0.53
1:F:2577:PHE:HB2	1:F:2783:ILE:HG13	1.91	0.53
1:F:2950:LYS:HZ2	1:F:2986:PRO:HG3	1.73	0.53
1:F:3580:ASN:HA	1:F:3628:PHE:HZ	1.72	0.53
2:G:304:ASN:HD21	2:G:309:GLY:N	2.06	0.53
3:H:246:HIS:HB2	3:H:262:ALA:HB1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:18:DA:C5	7:E:39:DA:N1	2.77	0.53
1:A:86:LEU:HA	1:A:89:LEU:HB2	1.89	0.53
1:A:99:LYS:HD3	1:A:143:LEU:HG	1.90	0.53
1:A:979:VAL:HG13	1:A:2591:ILE:HG21	1.91	0.53
1:A:1580:LEU:HD13	1:A:1625:HIS:CE1	2.44	0.53
1:A:1765:VAL:O	1:A:1768:ARG:HG2	2.08	0.53
1:A:2381:ALA:O	1:A:2385:LEU:HD23	2.08	0.53
1:A:2394:LYS:HA	1:A:2397:CYS:HB2	1.90	0.53
1:A:3100:LYS:O	1:A:3104:GLN:NE2	2.39	0.53
1:A:3348:LEU:HD22	1:A:3351:ILE:HD11	1.90	0.53
1:A:3639:GLU:HG2	1:A:3642:LYS:HE2	1.91	0.53
2:B:297:LYS:HG2	3:C:296:CYS:H	1.74	0.53
3:C:253:ILE:HB	3:C:257:LEU:HD11	1.89	0.53
3:C:681:ASP:O	3:C:685:LEU:HG	2.08	0.53
1:F:641:PHE:O	1:F:644:PRO:HD2	2.09	0.53
1:F:847:SER:N	1:F:850:GLU:OE2	2.38	0.53
1:F:892:LEU:O	1:F:907:LEU:N	2.41	0.53
1:F:1769:GLU:H	1:F:1772:HIS:HE1	1.56	0.53
1:F:1867:ILE:HG13	1:F:1871:MET:HE3	1.90	0.53
1:F:2092:GLU:OE1	1:F:2092:GLU:N	2.29	0.53
1:F:2387:PRO:HG2	2:G:155:SER:O	2.07	0.53
1:F:2884:LEU:HA	1:F:2886:GLN:NE2	2.22	0.53
1:A:149:ILE:HD12	1:A:152:LEU:HB2	1.90	0.53
1:A:270:ALA:HA	1:A:273:ARG:NE	2.24	0.53
1:A:773:LEU:HA	1:A:776:TRP:HE3	1.74	0.53
1:A:865:GLN:OE1	1:A:3169:PRO:HA	2.08	0.53
2:B:187:ARG:HG2	2:B:221:ILE:HD11	1.90	0.53
1:F:180:LEU:O	1:F:185:HIS:NE2	2.41	0.53
1:F:640:GLU:OE1	1:F:640:GLU:N	2.40	0.53
1:F:1671:VAL:HA	1:F:1674:THR:HB	1.91	0.53
1:F:1708:GLU:OE1	1:F:1708:GLU:N	2.32	0.53
1:F:2873:PRO:HG2	1:F:2921:LEU:HG	1.89	0.53
1:F:3141:PHE:HA	1:F:3144:PHE:HB3	1.89	0.53
1:F:4038:TRP:CD1	1:F:4040:PRO:HD3	2.44	0.53
3:H:346:CYS:SG	3:H:347:LYS:N	2.79	0.53
1:A:1505:LEU:O	1:A:1509:GLN:HG3	2.09	0.53
1:A:2425:ARG:NH2	1:A:2426:HIS:HA	2.24	0.53
1:A:2836:LEU:HB3	1:A:2840:PHE:HE2	1.72	0.53
1:A:3275:SER:HA	1:A:3278:GLN:NE2	2.24	0.53
1:A:3795:PRO:HA	1:A:3801:GLY:HA2	1.90	0.53
1:A:3841:ASP:HA	1:A:3844:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:131:HIS:CD2	3:C:239:LYS:HG2	2.43	0.53
1:F:188:GLU:HA	1:F:191:ASN:HD21	1.72	0.53
1:F:307:GLU:HA	1:F:310:LYS:HZ3	1.74	0.53
1:F:337:LYS:HA	1:F:340:TYR:HB2	1.91	0.53
1:F:886:TRP:HA	1:F:964:ARG:CZ	2.39	0.53
1:F:1474:ASP:OD1	1:F:1474:ASP:N	2.42	0.53
1:F:2231:PHE:O	1:F:2235:LEU:HG	2.09	0.53
1:F:2379:MET:HG3	1:F:2383:PHE:HE2	1.72	0.53
1:F:3493:TRP:O	1:F:3525:TYR:OH	2.26	0.53
1:F:3835:PRO:HA	1:F:3839:TYR:HB2	1.90	0.53
1:A:95:LYS:HE2	1:A:98:GLN:HG2	1.90	0.53
1:A:408:TYR:CD1	1:A:449:TYR:OH	2.61	0.53
1:A:639:ALA:HB1	1:A:642:PHE:HB3	1.91	0.53
1:A:2371:PHE:CD2	1:A:2374:LEU:HB2	2.42	0.53
1:A:2939:LEU:O	1:A:2942:ILE:HG22	2.09	0.53
1:A:3003:ASN:OD1	1:A:3046:ARG:NH1	2.41	0.53
1:A:3274:VAL:O	1:A:3278:GLN:HG2	2.09	0.53
1:F:391:ARG:HA	1:F:394:GLN:HE21	1.73	0.53
1:F:989:MET:SD	1:F:990:GLN:N	2.82	0.53
1:F:1271:ILE:HD11	1:F:1352:SER:HB2	1.89	0.53
1:F:2232:ARG:O	1:F:2235:LEU:N	2.41	0.53
1:F:2380:ASN:HA	1:F:2383:PHE:HD2	1.73	0.53
1:F:2799:GLN:HE22	1:F:2800:ARG:HD3	1.73	0.53
1:F:2863:CYS:HA	1:F:2869:LEU:HD11	1.89	0.53
1:F:2873:PRO:HB3	1:F:2893:LEU:HD11	1.91	0.53
1:F:3120:LEU:HA	1:F:3122:HIS:NE2	2.24	0.53
1:F:3389:VAL:HG13	1:F:3413:TYR:CE1	2.44	0.53
1:F:3740:ILE:O	1:F:3748:HIS:N	2.42	0.53
1:A:70:ARG:NH1	1:A:71:LYS:O	2.41	0.53
1:A:86:LEU:O	1:A:90:CYS:N	2.41	0.53
1:A:111:CYS:CB	1:A:130:LEU:HD22	2.38	0.53
1:A:1214:GLU:OE1	1:A:1214:GLU:N	2.40	0.53
1:A:1291:LEU:HA	1:A:1294:VAL:HG22	1.91	0.53
2:B:273:ILE:CG2	2:B:366:LEU:HG	2.39	0.53
1:F:483:VAL:O	1:F:487:LEU:HG	2.09	0.53
1:F:719:LYS:O	1:F:722:LYS:NZ	2.41	0.53
1:F:1708:GLU:H	1:F:1708:GLU:CD	2.12	0.53
1:F:1781:SER:HA	1:F:1784:ARG:NH1	2.23	0.53
1:F:3660:ASN:O	1:F:3663:THR:OG1	2.23	0.53
1:F:3931:ALA:HB3	1:F:3934:THR:HG22	1.91	0.53
3:H:725:VAL:O	3:H:729:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:865:GLN:HB3	1:A:3169:PRO:HA	1.90	0.53
1:A:2296:SER:O	1:A:2300:PHE:HE1	1.91	0.53
1:A:3135:LEU:HA	1:A:3138:ILE:HD12	1.91	0.53
1:A:3421:ASP:O	1:A:3425:ARG:HG2	2.09	0.53
2:B:75:ILE:HD13	2:B:116:ILE:HD11	1.91	0.53
2:B:121:GLN:NE2	2:B:130:ARG:HD2	2.24	0.53
3:C:426:PHE:HB3	3:C:428:GLU:HG2	1.91	0.53
1:F:23:ASP:HA	1:F:34:LEU:CD1	2.38	0.53
1:F:632:GLU:CD	1:F:632:GLU:H	2.12	0.53
1:F:655:LEU:HG	1:F:659:ARG:HE	1.74	0.53
1:F:3601:VAL:HG13	1:F:3604:LYS:HG3	1.90	0.53
2:G:38:LEU:HA	2:G:165:ARG:O	2.09	0.53
3:H:14:MET:SD	3:H:58:LEU:HD13	2.49	0.53
3:H:267:ILE:HB	3:H:361:VAL:HB	1.90	0.53
1:A:67:VAL:HG23	1:A:70:ARG:NH2	2.25	0.52
1:A:152:LEU:HA	1:A:155:LYS:NZ	2.15	0.52
1:A:1065:SER:HA	1:A:1068:LEU:HD21	1.89	0.52
1:A:1747:LEU:HA	1:A:1750:LEU:HD12	1.90	0.52
1:A:2237:ILE:O	1:A:2241:LEU:HG	2.09	0.52
1:A:2313:LYS:HA	1:A:2316:TYR:CE2	2.44	0.52
1:A:3096:VAL:HG22	1:A:3100:LYS:HG3	1.89	0.52
1:A:3596:LEU:HD23	1:A:3596:LEU:H	1.73	0.52
1:F:629:PHE:CE2	1:F:633:ILE:HG13	2.44	0.52
1:F:1813:SER:HB2	1:F:1936:ARG:HH12	1.72	0.52
1:F:2428:ASP:O	1:F:2432:GLN:HG2	2.08	0.52
1:F:2524:PHE:O	1:F:2530:ARG:NH1	2.41	0.52
1:F:3144:PHE:CE1	1:F:3150:ASN:HB3	2.44	0.52
1:F:3748:HIS:HB3	1:F:3750:PHE:CE2	2.44	0.52
1:F:3925:LEU:HD12	1:F:3962:ARG:NH2	2.25	0.52
2:G:420:LEU:HA	2:G:426:GLN:HA	1.89	0.52
1:A:245:SER:HA	1:A:248:ILE:HD12	1.91	0.52
1:A:540:MET:O	1:A:544:ILE:HG12	2.09	0.52
1:A:1154:PRO:HG2	1:A:1157:PHE:CD2	2.43	0.52
1:A:1651:LYS:O	1:A:1655:ILE:HG23	2.09	0.52
1:A:2215:LEU:O	1:A:2219:LEU:HG	2.10	0.52
1:A:2232:ARG:O	1:A:2236:GLU:HG2	2.09	0.52
1:A:2271:SER:HA	1:A:2274:ILE:HD12	1.90	0.52
1:A:2991:LYS:HA	1:A:2994:TRP:CE3	2.44	0.52
1:A:3357:ARG:HB3	1:A:3358:ARG:HH11	1.74	0.52
1:A:3551:ASN:O	1:A:3555:VAL:HG23	2.09	0.52
1:A:3643:HIS:CD2	1:A:3666:LEU:HG	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:LEU:HB2	2:B:436:PHE:HB2	1.90	0.52
1:F:225:LYS:HD3	1:F:271:GLY:N	2.24	0.52
1:F:236:LYS:HZ1	1:F:239:GLU:H	1.56	0.52
1:F:1302:ALA:HB2	1:F:1382:ILE:HG22	1.90	0.52
1:F:1765:VAL:HA	1:F:1768:ARG:NE	2.23	0.52
1:F:2102:LYS:HB3	1:F:2106:ARG:CZ	2.39	0.52
2:G:164:LYS:HE3	2:G:196:THR:HG22	1.90	0.52
2:G:459:VAL:O	2:G:463:LYS:HG2	2.09	0.52
3:H:270:GLU:O	3:H:486:ARG:NH2	2.42	0.52
1:A:263:LYS:HZ1	1:A:264:ARG:HB3	1.73	0.52
1:A:580:ASP:OD2	1:A:616:LYS:NZ	2.42	0.52
1:A:1186:LYS:N	1:A:1186:LYS:HD3	2.25	0.52
1:A:1564:SER:HA	1:A:1567:ILE:HD13	1.91	0.52
1:A:1847:ALA:O	1:A:1851:LEU:HG	2.09	0.52
1:A:3019:ILE:HG21	1:A:3031:TRP:HZ3	1.74	0.52
1:A:3232:ARG:HA	1:A:3235:LYS:NZ	2.24	0.52
3:C:264:TYR:O	3:C:363:LYS:N	2.33	0.52
1:F:535:LEU:HD13	1:F:564:LEU:HD12	1.90	0.52
1:F:1240:THR:HA	1:F:1296:PHE:CE2	2.44	0.52
1:F:1389:VAL:HG23	1:F:1390:GLN:H	1.75	0.52
1:F:1667:SER:OG	1:F:1670:GLU:OE1	2.24	0.52
1:F:2284:ASP:OD1	1:F:2329:TYR:OH	2.28	0.52
1:F:2311:ARG:NH1	1:F:2312:TYR:HB2	2.25	0.52
1:F:2383:PHE:HD1	1:F:2418:LYS:HE3	1.74	0.52
1:F:3786:LEU:HD21	1:F:3910:LEU:HD22	1.92	0.52
2:G:440:ALA:HB2	3:H:481:LYS:O	2.08	0.52
7:E:22:DA:C6	7:E:23:DT:C4	2.97	0.52
1:A:247:GLU:O	1:A:251:PHE:N	2.33	0.52
1:A:363:ILE:HD12	1:A:413:PHE:HA	1.91	0.52
1:A:1087:ARG:HG2	1:A:1090:ARG:HH21	1.74	0.52
1:A:1818:SER:HA	1:A:1821:ASP:HB2	1.91	0.52
1:A:3602:ASN:O	1:A:3604:LYS:NZ	2.26	0.52
1:A:3963:LEU:HD12	1:A:3967:PHE:CD2	2.45	0.52
2:B:36:ASP:CG	2:B:163:HIS:HB3	2.30	0.52
2:B:410:PHE:HB3	2:B:437:LEU:HD21	1.92	0.52
3:C:405:VAL:H	3:C:423:GLN:NE2	2.08	0.52
1:F:583:LEU:HB2	1:F:613:HIS:O	2.09	0.52
1:F:1095:LEU:HA	1:F:1099:PHE:HD2	1.75	0.52
1:F:1147:LYS:HB2	1:F:1149:LYS:HZ3	1.75	0.52
1:F:1172:LEU:HD21	1:F:1187:SER:HA	1.92	0.52
1:F:2459:VAL:HA	1:F:2473:MET:SD	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3039:THR:O	1:F:3042:PRO:HD2	2.10	0.52
1:F:3192:LYS:HA	1:F:3195:GLU:OE2	2.10	0.52
1:F:3298:LEU:HD23	1:F:3302:LYS:HG2	1.89	0.52
1:F:3638:LYS:HE2	1:F:3642:LYS:HD3	1.90	0.52
1:F:4049:ARG:HH12	1:F:4058:VAL:HG12	1.73	0.52
3:H:315:ARG:HA	3:H:320:ILE:HG13	1.92	0.52
3:H:526:SER:O	3:H:529:PRO:HD2	2.10	0.52
5:I:40:DT:H2"	5:I:41:DT:C5	2.44	0.52
1:A:82:ARG:H	1:A:82:ARG:CD	2.21	0.52
1:A:131:LEU:HD11	1:A:173:LYS:C	2.30	0.52
1:A:195:ASN:HA	1:A:198:ARG:HG3	1.92	0.52
1:A:667:TYR:HA	1:A:670:LEU:HD12	1.90	0.52
1:A:1069:HIS:CG	1:A:1070:PRO:HD2	2.44	0.52
1:A:1102:GLU:HG3	1:A:1154:PRO:HD3	1.92	0.52
1:A:1327:GLY:O	1:A:1330:TYR:HB3	2.09	0.52
1:A:3699:LEU:HD23	1:A:3719:ILE:HD13	1.90	0.52
2:B:52:GLN:HG3	2:B:171:ASN:CG	2.30	0.52
2:B:77:SER:HA	2:B:249:LYS:O	2.08	0.52
3:C:418:CYS:SG	3:C:419:LEU:N	2.82	0.52
1:F:43:VAL:HG11	1:F:829:VAL:HA	1.90	0.52
1:F:2275:GLN:O	1:F:2279:ILE:HG12	2.09	0.52
1:F:2890:ILE:HD13	1:F:2930:TYR:CE1	2.44	0.52
2:G:273:ILE:HG23	2:G:368:VAL:HG22	1.90	0.52
2:G:458:GLN:HE22	2:G:527:GLU:C	2.12	0.52
1:A:132:ILE:HG23	1:A:136:GLN:HE22	1.75	0.52
1:A:243:GLN:HG3	1:A:246:ARG:HH21	1.75	0.52
1:A:785:MET:HB3	1:A:789:TYR:CE1	2.44	0.52
1:A:1618:LEU:O	1:A:1622:ILE:HD12	2.09	0.52
2:B:122:PHE:O	2:B:127:GLY:HA3	2.09	0.52
2:B:400:TYR:N	2:B:409:TYR:O	2.43	0.52
3:C:104:GLN:HB2	3:C:141:ARG:NH1	2.25	0.52
1:F:115:TYR:CD2	1:F:118:ASP:HA	2.44	0.52
1:F:717:LYS:HA	1:F:720:GLN:HE22	1.74	0.52
1:F:982:GLN:NE2	1:F:2592:ASP:OD1	2.43	0.52
1:F:1131:ILE:HA	1:F:1134:LEU:HB2	1.92	0.52
1:F:1324:PRO:HA	1:F:1328:GLU:HB3	1.92	0.52
1:F:1611:GLN:HG3	1:F:1613:HIS:HB2	1.92	0.52
1:F:1810:PRO:O	1:F:1811:ARG:NH1	2.43	0.52
1:F:2801:ASP:OD2	1:F:2804:ILE:N	2.24	0.52
1:F:4113:ASP:OD1	1:F:4113:ASP:N	2.42	0.52
1:F:6007:UNK:O	1:F:6011:UNK:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:288:LEU:O	3:H:311:ILE:N	2.33	0.52
3:H:33:GLN:HA	3:H:36:LYS:HD3	1.91	0.52
3:H:251:LEU:HD11	3:H:259:ILE:HD12	1.92	0.52
3:H:667:GLU:HA	3:H:675:TRP:CH2	2.45	0.52
3:H:712:SER:OG	3:H:713:GLY:N	2.43	0.52
1:A:10:CYS:HA	1:A:13:LEU:HD23	1.91	0.52
1:A:54:GLN:OE1	1:A:54:GLN:N	2.31	0.52
1:A:229:SER:HA	1:A:278:HIS:CE1	2.44	0.52
1:A:1331:ASN:HA	1:A:1334:LYS:HD3	1.91	0.52
1:A:1904:CYS:SG	1:A:1911:LEU:HD21	2.50	0.52
1:A:2339:GLU:O	1:A:2342:CYS:N	2.42	0.52
1:A:2394:LYS:HD3	1:A:2394:LYS:N	2.24	0.52
1:A:2554:PHE:HB3	1:A:2854:PHE:CE1	2.45	0.52
1:A:3629:ARG:HA	1:A:3632:PHE:CD2	2.44	0.52
2:B:82:LEU:HD21	2:B:108:LEU:HB3	1.91	0.52
3:C:327:ASP:OD1	3:C:328:GLU:N	2.39	0.52
1:F:105:VAL:HA	1:F:108:LYS:NZ	2.25	0.52
1:F:1089:PHE:CE2	1:F:1096:VAL:HG12	2.44	0.52
1:F:1458:LEU:O	1:F:1462:GLY:N	2.26	0.52
1:F:1757:MET:HA	1:F:1760:GLU:HG3	1.91	0.52
1:F:1783:ARG:O	1:F:1830:HIS:NE2	2.43	0.52
1:F:2467:THR:HG22	1:F:2470:ARG:HH21	1.73	0.52
2:G:115:ARG:O	2:G:119:LEU:HG	2.09	0.52
1:A:741:ILE:HD13	1:A:776:TRP:HZ2	1.75	0.52
1:A:3586:LYS:HD2	1:A:3667:LEU:HD22	1.92	0.52
1:A:3921:GLY:H	1:A:3944:HIS:CD2	2.27	0.52
3:C:115:MET:HE3	3:C:150:ILE:HG22	1.91	0.52
3:C:135:PHE:HE1	3:C:164:PHE:HD2	1.57	0.52
3:C:359:ASN:OD1	3:C:360:GLN:N	2.43	0.52
3:C:626:THR:HA	3:C:632:PHE:HD2	1.74	0.52
1:F:1894:SER:HG	1:F:1909:ASN:HD22	1.58	0.52
1:F:2359:LYS:HD3	1:F:2363:CYS:SG	2.50	0.52
1:F:2893:LEU:HD12	1:F:2922:ARG:HB2	1.91	0.52
1:F:3059:GLN:HA	1:F:3062:LEU:HD13	1.92	0.52
1:F:3232:ARG:NH2	1:F:3268:THR:OG1	2.37	0.52
1:F:3423:GLN:HA	1:F:3426:LYS:HE2	1.92	0.52
1:F:3555:VAL:HG12	1:F:3559:LYS:NZ	2.25	0.52
1:F:3583:LEU:O	1:F:3586:LYS:HG3	2.10	0.52
3:H:500:HIS:HB3	3:H:503:GLU:HB2	1.91	0.52
1:A:77:GLU:HG3	1:A:78:PHE:HD1	1.74	0.52
1:A:91:ILE:HD11	1:A:831:LEU:CD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1563:PHE:O	1:A:1566:THR:N	2.43	0.52
1:A:1791:CYS:O	1:A:1795:VAL:HG23	2.09	0.52
1:A:1848:ILE:HB	1:A:1852:LYS:HZ1	1.75	0.52
1:A:2320:ALA:HB1	1:A:2366:LYS:HB2	1.92	0.52
1:A:2411:LEU:H	1:A:2411:LEU:HD12	1.75	0.52
1:A:3357:ARG:NE	1:A:3358:ARG:HH12	2.07	0.52
2:B:164:LYS:HE3	2:B:196:THR:HG22	1.91	0.52
3:C:454:VAL:O	3:C:458:ILE:HG13	2.10	0.52
1:F:46:SER:OG	1:F:827:ASN:ND2	2.43	0.52
1:F:131:LEU:O	1:F:177:LEU:HD11	2.10	0.52
1:F:925:GLN:HB2	1:F:2800:ARG:HH12	1.75	0.52
1:F:2228:ARG:HG2	1:F:2232:ARG:NH2	2.25	0.52
1:F:2252:PRO:O	1:F:2294:ILE:HD11	2.09	0.52
1:F:2420:PHE:CZ	1:F:2435:CYS:HB3	2.44	0.52
1:F:2459:VAL:HG21	1:F:2505:VAL:HG11	1.92	0.52
1:F:2801:ASP:OD2	1:F:2804:ILE:HG12	2.10	0.52
1:F:2813:PHE:CD2	1:F:2861:ILE:HG23	2.44	0.52
2:G:48:MET:HE3	2:G:60:PHE:HA	1.91	0.52
3:H:8:ALA:HB1	3:H:240:ILE:HD12	1.92	0.52
3:H:36:LYS:NZ	3:H:231:LEU:HD21	2.25	0.52
3:H:347:LYS:HG3	3:H:349:SER:H	1.75	0.52
1:A:344:GLN:HG2	1:A:345:PHE:N	2.24	0.52
1:A:461:ILE:HA	1:A:464:VAL:HG12	1.92	0.52
1:A:493:LYS:HZ2	1:A:522:PRO:HD3	1.75	0.52
1:A:907:LEU:HD23	1:A:907:LEU:H	1.75	0.52
1:A:932:GLU:OE2	1:A:2773:ARG:HD3	2.10	0.52
1:A:1195:VAL:HG22	1:A:1207:TRP:CZ3	2.45	0.52
1:A:1780:SER:O	1:A:1784:ARG:HG2	2.10	0.52
1:A:1821:ASP:HA	1:A:1825:LEU:HD12	1.91	0.52
1:A:1824:LEU:HD23	1:A:1827:LEU:HD12	1.91	0.52
2:B:414:VAL:HG12	2:B:433:GLN:HB3	1.91	0.52
1:F:131:LEU:HB2	1:F:177:LEU:HD21	1.92	0.52
1:F:275:PHE:HD2	1:F:315:ALA:HB1	1.74	0.52
1:F:683:PHE:CE1	1:F:700:LYS:HB3	2.45	0.52
1:F:1175:HIS:CG	1:F:1229:CYS:HA	2.45	0.52
1:F:1270:PHE:HB3	1:F:1281:VAL:HG21	1.91	0.52
1:F:1407:LYS:HD3	1:F:1463:LEU:HD11	1.91	0.52
1:F:2201:THR:HG22	1:F:2245:TRP:CD1	2.45	0.52
1:F:2964:ASP:OD1	1:F:2965:TYR:N	2.42	0.52
1:F:3477:GLU:HG2	1:F:3477:GLU:O	2.09	0.52
1:A:327:VAL:C	1:A:329:LYS:H	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:LYS:O	1:A:339:GLN:HG3	2.09	0.51
1:A:1105:VAL:HG11	1:A:1156:GLY:HA3	1.91	0.51
1:A:1180:GLN:O	1:A:1184:ARG:N	2.37	0.51
1:A:1268:ASN:OD1	1:A:1347:THR:HG21	2.10	0.51
1:A:2464:HIS:O	1:A:2466:SER:N	2.39	0.51
1:A:2482:ASP:HA	1:A:2485:ARG:HG2	1.92	0.51
1:A:3617:LEU:HD22	1:A:3636:PHE:HB3	1.92	0.51
1:A:3980:MET:N	1:A:3980:MET:SD	2.83	0.51
3:C:89:ASP:OD1	3:C:90:LEU:N	2.42	0.51
1:F:358:GLU:HG3	1:F:359:LEU:HD22	1.92	0.51
1:F:900:GLU:O	1:F:902:LYS:HD2	2.10	0.51
1:F:984:TYR:HA	1:F:987:LEU:HD12	1.91	0.51
1:F:1241:LEU:HD23	1:F:1256:TRP:HZ3	1.76	0.51
1:F:1519:PHE:HZ	1:F:1528:LEU:HG	1.76	0.51
1:F:1803:GLU:N	1:F:1806:ARG:HH21	2.08	0.51
1:F:2228:ARG:O	1:F:2228:ARG:HD3	2.10	0.51
1:F:2251:ILE:HG22	1:F:2253:TYR:H	1.75	0.51
1:F:3000:ASP:O	1:F:3004:HIS:N	2.43	0.51
1:F:3288:SER:H	1:F:3289:ARG:CZ	2.22	0.51
1:F:3303:THR:HG23	1:F:3304:VAL:HG13	1.91	0.51
1:F:3593:ARG:NH2	1:F:3664:ASN:OD1	2.30	0.51
2:G:345:LEU:HD11	2:G:400:TYR:HD1	1.75	0.51
1:A:23:ASP:N	1:A:23:ASP:OD1	2.43	0.51
1:A:410:MET:HB3	1:A:442:GLN:HG3	1.91	0.51
1:A:969:LEU:O	1:A:972:LEU:HG	2.10	0.51
1:A:1081:ALA:O	1:A:1085:ILE:HG13	2.10	0.51
1:A:1231:GLN:O	1:A:1231:GLN:HG2	2.09	0.51
1:A:1584:GLN:HA	1:A:1628:LYS:NZ	2.26	0.51
1:A:1630:ASP:HA	1:A:1633:TRP:NE1	2.20	0.51
1:A:2332:GLU:C	1:A:2334:LYS:H	2.14	0.51
1:A:2551:GLU:HB3	1:A:2854:PHE:CD2	2.45	0.51
1:A:3717:VAL:HA	1:A:3743:HIS:HE1	1.74	0.51
3:C:730:ASP:O	1:F:1908:GLY:HA2	2.10	0.51
1:F:274:LEU:O	1:F:278:HIS:N	2.43	0.51
1:F:704:PHE:O	1:F:708:VAL:HG23	2.10	0.51
1:F:2133:LEU:HD13	1:F:2143:ARG:HG2	1.91	0.51
1:F:2412:TYR:HA	1:F:2415:LEU:HD12	1.92	0.51
1:F:2558:ALA:HA	1:F:2561:PHE:CE2	2.45	0.51
1:F:3048:LYS:O	1:F:3052:LEU:HG	2.10	0.51
1:F:3554:PHE:O	1:F:3558:ILE:HG12	2.10	0.51
1:F:3954:PRO:HD3	1:F:4027:TRP:CZ3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:146:GLN:NE2	3:H:150:ILE:HG21	2.25	0.51
1:A:727:ALA:HA	1:A:730:LEU:HD12	1.92	0.51
1:A:1328:GLU:HA	1:A:1331:ASN:HD22	1.76	0.51
2:B:63:SER:O	2:B:67:ILE:HG12	2.11	0.51
2:B:450:GLU:OE2	3:C:415:ASN:ND2	2.44	0.51
3:C:599:ARG:HH21	3:C:602:VAL:HG21	1.74	0.51
3:C:645:GLU:HA	3:C:648:LYS:HE3	1.92	0.51
1:F:36:ARG:HA	1:F:36:ARG:HE	1.75	0.51
1:F:66:LEU:HG	1:F:70:ARG:HH12	1.74	0.51
1:F:3101:TYR:HA	1:F:3104:GLN:OE1	2.10	0.51
1:F:3158:LYS:O	1:F:3161:LEU:HG	2.10	0.51
1:F:3388:ALA:O	1:F:3392:ALA:N	2.44	0.51
2:G:462:MET:HA	2:G:465:ILE:HG12	1.93	0.51
3:H:324:SER:N	3:H:327:ASP:OD2	2.43	0.51
3:H:360:GLN:HE22	3:H:421:TYR:HD2	1.58	0.51
3:H:363:LYS:HB3	3:H:420:VAL:HG12	1.93	0.51
3:H:701:ALA:O	3:H:705:LEU:N	2.43	0.51
1:A:194:GLU:HA	1:A:197:PHE:CD2	2.45	0.51
1:A:321:LYS:NZ	1:A:322:GLN:OE1	2.33	0.51
1:A:1015:ASP:HA	1:A:1018:VAL:HG12	1.91	0.51
1:A:2256:ILE:H	1:A:2256:ILE:HD12	1.75	0.51
1:A:2429:ASP:O	1:A:2432:GLN:HG2	2.10	0.51
1:A:2480:ILE:HA	1:A:2483:ASN:ND2	2.25	0.51
1:A:2510:LEU:C	1:A:2518:GLN:HE22	2.14	0.51
2:B:59:PRO:HA	2:B:62:MET:HG3	1.93	0.51
2:B:297:LYS:NZ	3:C:294:VAL:O	2.43	0.51
1:F:574:LYS:O	1:F:578:LYS:HD3	2.11	0.51
1:F:925:GLN:HA	1:F:928:VAL:HG22	1.93	0.51
1:F:1651:LYS:NZ	1:F:1654:GLN:OE1	2.24	0.51
1:F:1804:MET:HB3	1:F:1819:PHE:HE2	1.75	0.51
1:F:1813:SER:HB2	1:F:1868:THR:HG21	1.93	0.51
1:F:3005:LEU:HD22	1:F:3254:LEU:HB3	1.93	0.51
1:F:3174:ASP:OD1	1:F:3178:ILE:HB	2.11	0.51
2:G:115:ARG:NH2	2:G:118:GLU:OE2	2.43	0.51
2:G:274:TYR:HB2	2:G:367:PHE:HD2	1.76	0.51
2:G:274:TYR:N	2:G:367:PHE:O	2.42	0.51
2:G:389:CYS:SG	2:G:415:PRO:HB2	2.50	0.51
1:A:572:VAL:O	1:A:576:VAL:HG23	2.09	0.51
1:A:1891:ALA:HA	1:A:1895:LYS:HG2	1.91	0.51
1:A:2181:GLY:HA2	1:A:2222:HIS:ND1	2.26	0.51
1:A:2330:VAL:HG23	1:A:2331:MET:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2547:SER:H	1:A:2554:PHE:HE2	1.58	0.51
1:A:3946:PHE:O	1:A:3951:GLN:NE2	2.43	0.51
2:B:46:LYS:HA	2:B:137:HIS:NE2	2.25	0.51
3:C:593:ASN:HA	3:C:597:ASN:HB2	1.91	0.51
1:F:187:SER:O	1:F:191:ASN:ND2	2.43	0.51
1:F:969:LEU:O	1:F:973:ALA:N	2.38	0.51
1:F:1288:SER:HB2	1:F:1290:LEU:HD13	1.92	0.51
1:F:2447:LYS:HD3	1:F:2448:PRO:HD2	1.92	0.51
1:F:3086:LEU:HA	1:F:3089:LEU:HD12	1.93	0.51
1:F:3516:HIS:ND1	1:F:3520:GLU:OE2	2.44	0.51
2:G:476:ASP:HA	3:H:427:MET:SD	2.50	0.51
3:H:721:GLU:O	3:H:725:VAL:HG23	2.11	0.51
1:A:544:ILE:O	1:A:548:GLU:HG3	2.11	0.51
1:A:623:PHE:CZ	1:A:627:VAL:HG21	2.45	0.51
1:A:2230:VAL:O	1:A:2233:HIS:HB3	2.11	0.51
1:A:2468:THR:O	1:A:2471:GLU:HG3	2.10	0.51
1:A:2952:ILE:HG12	1:A:2972:TYR:HE1	1.74	0.51
1:A:3378:TYR:O	1:A:3382:PHE:N	2.41	0.51
1:A:3472:ILE:HG13	1:A:3479:THR:CB	2.40	0.51
1:F:570:LYS:HD3	1:F:1505:LEU:HD21	1.92	0.51
1:F:1834:ASP:HA	1:F:1837:ARG:NH1	2.26	0.51
1:F:2815:GLY:HA2	1:F:2818:LYS:HD3	1.92	0.51
1:F:3812:LEU:HB3	1:F:3925:LEU:HD23	1.93	0.51
1:F:6010:UNK:O	1:F:6014:UNK:N	2.44	0.51
2:G:106:GLN:HG3	2:G:115:ARG:NH1	2.25	0.51
2:G:302:THR:HG23	2:G:302:THR:O	2.10	0.51
2:G:413:LEU:HD21	2:G:432:PHE:CG	2.45	0.51
1:A:264:ARG:NH2	7:E:40:DT:H5”	2.25	0.51
1:A:437:HIS:NE2	1:A:6015:UNK:HA	2.25	0.51
1:A:656:GLN:HG2	1:A:666:PHE:CE2	2.46	0.51
1:A:1142:HIS:CD2	1:A:1197:LEU:HD11	2.45	0.51
1:A:2205:VAL:HG22	1:A:2207:LYS:H	1.75	0.51
1:A:2428:ASP:HB3	1:A:2431:ARG:HG2	1.93	0.51
1:A:2519:LEU:O	1:A:2522:ARG:HB2	2.11	0.51
1:A:2559:THR:HA	1:A:2562:LEU:HD13	1.93	0.51
1:A:2851:PHE:HB3	1:A:2854:PHE:HB3	1.91	0.51
1:A:3031:TRP:O	1:A:3034:PRO:HD2	2.11	0.51
1:A:4013:TRP:HZ2	1:A:4036:LYS:HE2	1.76	0.51
2:B:450:GLU:HA	3:C:416:TYR:HE1	1.75	0.51
3:C:74:TYR:HD1	3:C:113:VAL:HG22	1.75	0.51
3:C:185:LEU:HB3	3:C:514:ASN:ND2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:305:ASN:O	1:F:308:LEU:N	2.40	0.51
1:F:642:PHE:CE2	1:F:646:VAL:HG12	2.45	0.51
1:F:828:LYS:HG3	1:F:830:VAL:H	1.75	0.51
1:F:1854:ARG:HB3	1:F:1863:PHE:CE1	2.41	0.51
1:F:1887:ASP:OD1	1:F:1887:ASP:N	2.39	0.51
1:F:3374:ILE:HA	1:F:3377:LEU:HB2	1.92	0.51
1:F:3447:VAL:CG2	1:F:3478:GLU:O	2.41	0.51
1:F:3881:ASP:HA	1:F:3969:ASN:HB3	1.93	0.51
1:F:4040:PRO:HA	1:F:4043:LYS:HD2	1.93	0.51
2:G:273:ILE:CG2	2:G:366:LEU:HG	2.40	0.51
3:H:251:LEU:HD23	3:H:261:ILE:HD13	1.93	0.51
3:H:463:LEU:HD22	3:H:522:VAL:HG11	1.92	0.51
1:A:84:GLU:HA	1:A:87:LYS:HB3	1.91	0.51
1:A:301:CYS:SG	1:A:302:ALA:N	2.83	0.51
1:A:318:SER:O	1:A:321:LYS:HG2	2.11	0.51
1:A:465:PHE:HE1	1:A:482:VAL:HG21	1.76	0.51
1:A:471:LYS:HZ3	1:A:473:PRO:HG2	1.76	0.51
1:A:797:ASP:OD1	1:A:797:ASP:N	2.43	0.51
1:A:3616:ALA:O	1:A:3633:ILE:CG2	2.59	0.51
2:B:116:ILE:H	2:B:116:ILE:HD12	1.76	0.51
3:C:509:GLN:OE1	3:C:512:ILE:HG12	2.10	0.51
1:F:333:MET:SD	3:H:568:LYS:NZ	2.62	0.51
1:F:1145:LEU:HD13	1:F:1151:ARG:HH21	1.75	0.51
1:F:1190:LEU:HB3	1:F:1194:PHE:CZ	2.46	0.51
1:F:1304:HIS:HB3	1:F:1307:ILE:O	2.10	0.51
1:F:1658:SER:O	1:F:1662:ASN:ND2	2.44	0.51
1:F:1967:PHE:C	1:F:1969:GLU:H	2.12	0.51
1:F:2197:THR:HG23	1:F:5009:UNK:N	2.26	0.51
1:F:3064:PHE:O	1:F:3067:LYS:HB2	2.10	0.51
2:G:193:LEU:HB2	2:G:198:ILE:HD13	1.93	0.51
1:A:453:MET:HA	1:A:456:VAL:HG22	1.93	0.51
1:A:1017:ILE:HD12	1:A:1077:GLY:HA3	1.92	0.51
1:A:1124:ILE:HG13	1:A:1125:GLN:N	2.26	0.51
1:A:2323:LEU:O	1:A:2327:LEU:HG	2.10	0.51
2:B:362:LEU:HD12	2:B:436:PHE:HB3	1.92	0.51
2:B:392:LYS:NZ	3:C:458:ILE:HG21	2.26	0.51
1:F:960:GLN:HA	1:F:963:LYS:HE2	1.93	0.51
1:F:971:ARG:HH12	1:F:1025:LEU:HD13	1.75	0.51
1:F:1412:LYS:O	1:F:1415:LEU:HB2	2.10	0.51
1:F:1525:CYS:O	1:F:1529:VAL:HG23	2.11	0.51
1:F:1972:GLU:C	1:F:1973:LYS:HD2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2196:TRP:HE1	1:F:2200:ALA:HB3	1.76	0.51
1:F:2430:GLU:N	1:F:2430:GLU:OE1	2.42	0.51
1:F:2435:CYS:O	1:F:2439:ILE:HG12	2.11	0.51
1:F:3361:GLU:HB3	1:F:3366:SER:HA	1.93	0.51
1:F:3759:ARG:HH22	1:F:4015:ASN:HB3	1.75	0.51
1:F:3871:PHE:HA	1:F:3874:ARG:HD3	1.92	0.51
2:G:93:ASP:CG	2:G:100:LYS:HA	2.31	0.51
2:G:459:VAL:HG13	3:H:383:ALA:HB2	1.93	0.51
1:A:704:PHE:O	1:A:708:VAL:HG23	2.11	0.51
1:A:1669:PRO:HA	1:A:1672:PHE:HB3	1.93	0.51
1:A:2127:LYS:O	1:A:2127:LYS:NZ	2.43	0.51
1:A:2821:ASP:HA	1:A:2829:LYS:HE2	1.92	0.51
1:A:2936:TYR:HA	1:A:2939:LEU:HD12	1.91	0.51
1:A:3768:PHE:HB3	1:A:3788:LEU:HD23	1.91	0.51
2:B:95:ASN:HB3	2:B:102:ILE:HG22	1.92	0.51
2:B:131:PHE:HA	2:B:134:MET:HG2	1.93	0.51
3:C:250:ARG:HA	3:C:260:ARG:HA	1.93	0.51
3:C:264:TYR:N	3:C:363:LYS:O	2.40	0.51
3:C:365:PHE:HB2	3:C:368:ARG:NH1	2.23	0.51
1:F:73:LEU:HD21	1:F:78:PHE:CD1	2.46	0.51
1:F:242:PRO:HA	1:F:245:SER:HB2	1.93	0.51
1:F:431:TYR:O	1:F:435:LEU:HG	2.11	0.51
1:F:456:VAL:HA	1:F:459:ARG:HE	1.75	0.51
1:F:1260:LEU:HD22	1:F:1337:VAL:HG13	1.93	0.51
1:F:2208:ASP:HA	1:F:2211:LEU:HD12	1.93	0.51
1:F:3090:TYR:CB	1:F:3099:ALA:HB2	2.40	0.51
1:F:3565:GLY:HA2	1:F:3569:GLN:OE1	2.10	0.51
1:F:3865:THR:O	1:F:3869:THR:HG23	2.11	0.51
2:G:264:ASN:HD21	3:H:534:LYS:HZ1	1.56	0.51
2:G:322:TYR:CE2	3:H:494:LEU:HD21	2.46	0.51
2:G:526:LYS:HD2	3:H:256:ASN:OD1	2.11	0.51
3:H:182:PRO:HB2	3:H:520:ALA:HB3	1.93	0.51
1:A:215:PRO:O	1:A:216:LYS:HD2	2.11	0.50
1:A:278:HIS:C	1:A:281:GLN:HE22	2.15	0.50
1:A:346:TYR:OH	1:A:350:ARG:NH1	2.44	0.50
1:A:966:PHE:O	1:A:969:LEU:HB3	2.11	0.50
1:A:1002:GLU:OE1	1:A:1002:GLU:N	2.44	0.50
1:A:1271:ILE:O	1:A:1274:ARG:NH1	2.39	0.50
1:A:1431:LEU:HD11	1:A:1447:ARG:CZ	2.41	0.50
1:A:1471:GLN:HE22	1:A:1476:HIS:CE1	2.28	0.50
1:A:1855:PHE:HA	1:A:1867:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1891:ALA:HB2	1:A:1896:ILE:H	1.75	0.50
1:A:2239:LYS:O	1:A:2242:VAL:HG12	2.10	0.50
1:A:2540:LEU:HA	1:A:2543:ASN:ND2	2.26	0.50
1:A:3050:LYS:O	1:A:3054:GLN:NE2	2.44	0.50
1:A:3766:GLN:O	1:A:3770:VAL:HG23	2.11	0.50
3:C:453:ALA:HB2	3:C:536:LEU:HD23	1.92	0.50
1:F:96:MET:HG3	1:F:99:LYS:HG3	1.93	0.50
1:F:306:VAL:HG12	1:F:309:LYS:HD2	1.93	0.50
1:F:1125:GLN:H	1:F:1125:GLN:CD	2.15	0.50
1:F:3544:ASP:OD2	1:F:3546:SER:OG	2.20	0.50
1:F:3781:CYS:HA	1:F:3784:ARG:HB2	1.94	0.50
2:G:46:LYS:HD2	2:G:137:HIS:NE2	2.26	0.50
2:G:173:ASP:HA	2:G:213:ILE:HG23	1.92	0.50
2:G:299:LYS:NZ	3:H:292:GLU:HG2	2.26	0.50
2:G:363:ARG:NH2	3:H:359:ASN:O	2.45	0.50
2:G:416:GLN:HB3	2:G:431:GLY:N	2.14	0.50
1:A:35:ILE:HG22	1:A:36:ARG:HD3	1.93	0.50
1:A:279:ALA:HB1	1:A:322:GLN:CD	2.32	0.50
1:A:1428:ILE:HG13	1:A:1429:GLU:N	2.26	0.50
1:A:2908:LYS:HD2	1:A:2909:ARG:O	2.11	0.50
1:A:2937:ASP:HB3	1:A:3979:LEU:HD13	1.93	0.50
1:A:3765:GLU:HA	1:A:3768:PHE:CE2	2.47	0.50
1:A:3810:VAL:N	1:A:3930:VAL:H	2.08	0.50
1:A:3949:ALA:HB1	1:A:3955:VAL:O	2.12	0.50
2:B:50:GLU:O	2:B:59:PRO:HD2	2.11	0.50
2:B:52:GLN:HG3	2:B:171:ASN:ND2	2.26	0.50
2:B:318:ARG:HH21	3:C:278:VAL:HA	1.75	0.50
1:F:320:LEU:HD13	1:F:368:LEU:HD13	1.92	0.50
1:F:616:LYS:NZ	1:F:618:LYS:HD2	2.26	0.50
1:F:639:ALA:HB1	1:F:642:PHE:HB3	1.93	0.50
1:F:1825:LEU:HA	1:F:1828:LEU:HD12	1.92	0.50
1:F:2470:ARG:HA	1:F:2473:MET:HE3	1.92	0.50
1:F:2897:LEU:HD13	1:F:2922:ARG:HD2	1.92	0.50
1:F:3352:GLU:OE2	1:F:3357:ARG:HG3	2.10	0.50
1:F:3869:THR:HG22	1:F:3872:ARG:HH12	1.76	0.50
1:F:3962:ARG:NH2	1:F:4125:GLU:HG2	2.26	0.50
5:I:42:DA:H8	5:I:42:DA:OP2	1.93	0.50
1:A:531:PHE:HA	1:A:534:LEU:HD12	1.94	0.50
1:A:741:ILE:HA	1:A:748:TYR:CE2	2.38	0.50
1:A:1878:ASP:OD1	1:A:1879:VAL:N	2.44	0.50
1:A:2312:TYR:O	1:A:2315:VAL:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2403:CYS:O	1:A:2404:ARG:NE	2.42	0.50
1:A:2959:ALA:HB2	1:A:2967:GLU:OE2	2.11	0.50
1:A:3960:PRO:HD3	1:A:4110:GLN:OE1	2.11	0.50
2:B:388:LYS:HE3	2:B:392:LYS:HB2	1.93	0.50
1:F:528:VAL:HG12	1:F:629:PHE:CE1	2.46	0.50
1:F:884:VAL:HG13	1:F:964:ARG:HH22	1.76	0.50
1:F:1624:GLN:O	1:F:1628:LYS:NZ	2.44	0.50
1:F:1667:SER:OG	1:F:1667:SER:O	2.29	0.50
1:F:1684:LEU:HB3	1:F:1688:LEU:HB2	1.94	0.50
1:F:2220:MET:HG2	1:F:2255:LEU:HD22	1.94	0.50
1:F:3471:ILE:O	1:F:3475:TYR:N	2.32	0.50
1:F:3956:PRO:HB3	1:F:4068:HIS:HE1	1.77	0.50
3:H:183:PHE:CE2	3:H:190:PRO:HD2	2.46	0.50
1:A:446:PHE:N	1:A:447:PRO:HD3	2.16	0.50
1:A:721:TYR:O	1:A:722:LYS:HD3	2.11	0.50
1:A:1834:ASP:HA	1:A:1837:ARG:NH1	2.26	0.50
1:A:2297:SER:HA	1:A:2300:PHE:CD1	2.47	0.50
1:A:2365:ASN:HB3	1:A:2366:LYS:HZ2	1.75	0.50
1:A:2981:TRP:CD1	1:A:2986:PRO:HD2	2.47	0.50
1:A:3111:MET:SD	1:A:3112:GLN:NE2	2.84	0.50
1:A:3663:THR:O	1:A:3667:LEU:HG	2.11	0.50
2:B:487:PHE:O	2:B:491:GLU:HG3	2.11	0.50
3:C:247:TRP:CH2	3:C:338:LYS:HE3	2.46	0.50
3:C:329:GLU:O	3:C:332:LYS:HE2	2.12	0.50
1:F:313:LEU:HD21	1:F:357:LYS:HZ2	1.76	0.50
1:F:320:LEU:HD21	1:F:364:ARG:NH2	2.27	0.50
1:F:463:LYS:NZ	1:F:544:ILE:HG23	2.26	0.50
1:F:977:ASP:OD1	1:F:978:GLN:N	2.44	0.50
1:F:1444:ASP:HA	1:F:1447:ARG:HH12	1.76	0.50
1:F:2950:LYS:HG3	1:F:2994:TRP:HZ2	1.76	0.50
1:F:3037:GLN:HA	1:F:3040:TYR:CD2	2.41	0.50
1:F:3631:LYS:HA	1:F:3634:GLN:HE21	1.76	0.50
2:G:194:ARG:HH12	2:G:199:PHE:HA	1.77	0.50
6:D:20:DT:C2	6:D:21:DA:N1	2.79	0.50
1:A:449:TYR:HB3	1:A:453:MET:SD	2.52	0.50
1:A:834:LEU:O	1:A:835:LYS:HG3	2.12	0.50
1:A:2400:VAL:HA	1:A:2403:CYS:SG	2.52	0.50
1:A:2434:VAL:O	1:A:2437:ASP:HB2	2.12	0.50
1:A:2951:GLN:HA	1:A:2954:GLN:NE2	2.27	0.50
1:A:3177:ASN:OD1	1:A:3178:ILE:N	2.44	0.50
1:A:3187:CYS:SG	1:A:3239:LYS:HE2	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:451:PRO:O	1:F:455:LEU:HG	2.11	0.50
1:F:484:HIS:O	1:F:487:LEU:HB2	2.11	0.50
1:F:1538:LEU:N	1:F:1553:PHE:O	2.44	0.50
1:F:1811:ARG:NH2	3:H:627:ASN:H	2.08	0.50
1:F:2387:PRO:HA	1:F:2394:LYS:NZ	2.27	0.50
1:F:2518:GLN:HA	1:F:2521:ILE:HG22	1.93	0.50
1:F:3421:ASP:OD1	1:F:3425:ARG:NH2	2.44	0.50
1:F:3568:ILE:O	1:F:3571:PHE:HB2	2.12	0.50
1:F:3717:VAL:HG12	1:F:3744:ASP:HB2	1.92	0.50
1:F:4049:ARG:HH21	1:F:4054:ALA:HB1	1.75	0.50
2:G:340:PHE:HB3	2:G:408:PRO:HD3	1.93	0.50
2:G:507:THR:HG23	2:G:508:LEU:HD12	1.92	0.50
1:A:131:LEU:HD11	1:A:174:VAL:N	2.25	0.50
1:A:1190:LEU:HB3	1:A:1194:PHE:CZ	2.47	0.50
1:A:1329:ARG:HE	1:A:1329:ARG:HA	1.77	0.50
1:A:1878:ASP:HB3	1:A:1947:CYS:HA	1.93	0.50
1:A:2129:LEU:HD11	1:A:2146:LEU:HD22	1.93	0.50
1:A:2952:ILE:HG13	1:A:2971:GLN:HB3	1.93	0.50
1:A:3090:TYR:O	1:A:3094:ASP:N	2.45	0.50
1:A:3154:GLN:O	1:A:3157:LEU:HB2	2.12	0.50
1:A:3195:GLU:HG3	1:A:3196:LYS:HG2	1.92	0.50
1:A:3369:ASP:OD2	1:A:3372:LYS:NZ	2.44	0.50
1:A:3496:ILE:HG12	1:A:3707:GLY:HA3	1.92	0.50
1:A:3644:PHE:HA	1:A:3653:ARG:NH2	2.27	0.50
1:A:3901:ARG:NH1	1:A:3970:LEU:HA	2.26	0.50
2:B:173:ASP:OD2	2:B:214:SER:N	2.44	0.50
2:B:512:GLU:O	2:B:516:LYS:HE2	2.12	0.50
1:F:83:GLU:HA	1:F:86:LEU:HD12	1.94	0.50
1:F:236:LYS:NZ	1:F:239:GLU:H	2.10	0.50
1:F:655:LEU:O	1:F:659:ARG:HG3	2.11	0.50
1:F:1242:LEU:O	1:F:1312:CYS:HB2	2.12	0.50
1:F:1568:ASN:HA	1:F:1600:MET:HE1	1.93	0.50
1:F:2850:PHE:O	1:F:2852:PRO:HD3	2.11	0.50
1:F:2967:GLU:OE2	1:F:2971:GLN:NE2	2.45	0.50
2:G:325:ARG:NE	3:H:498:ALA:O	2.44	0.50
2:G:418:GLU:OE2	2:G:430:PRO:HG3	2.11	0.50
4:J:20:DT:C2	4:J:21:DA:N1	2.79	0.50
7:E:37:DT:H2'	7:E:38:DT:C5	2.46	0.50
1:A:67:VAL:HA	1:A:70:ARG:CZ	2.42	0.50
1:A:229:SER:O	1:A:278:HIS:NE2	2.45	0.50
1:A:305:ASN:ND2	1:A:307:GLU:HG2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:LEU:O	1:A:534:LEU:HG	2.11	0.50
1:A:709:LYS:O	1:A:712:LYS:N	2.44	0.50
1:A:757:LYS:O	1:A:760:LEU:HB2	2.12	0.50
1:A:793:LEU:HD22	1:A:869:ASN:HB2	1.94	0.50
1:A:899:ARG:NH2	1:A:2565:MET:O	2.45	0.50
1:A:1627:LYS:O	1:A:1630:ASP:HB2	2.12	0.50
1:A:3090:TYR:HA	1:A:3093:GLN:HB2	1.94	0.50
1:A:3568:ILE:HD12	1:A:3571:PHE:HD2	1.77	0.50
2:B:320:GLN:OE1	3:C:276:TRP:HA	2.12	0.50
2:B:450:GLU:C	2:B:451:LYS:HD3	2.32	0.50
3:C:90:LEU:O	3:C:94:ILE:HG12	2.12	0.50
3:C:394:ARG:NH1	3:C:396:ALA:HB3	2.27	0.50
1:F:1828:LEU:O	1:F:1883:ARG:NH1	2.44	0.50
1:F:3052:LEU:HD11	1:F:3061:LEU:HD11	1.94	0.50
1:F:3610:TYR:CE1	1:F:3649:SER:HA	2.46	0.50
2:G:203:MET:HE2	2:G:239:LEU:N	2.26	0.50
5:I:33:DA:H1'	5:I:34:DC:H5'	1.94	0.50
1:A:440:VAL:O	1:A:443:ILE:HB	2.12	0.50
1:A:1107:TYR:OH	1:A:1130:ALA:HB3	2.11	0.50
1:A:2349:LEU:O	1:A:2360:PHE:HE1	1.95	0.50
1:A:2450:GLU:O	1:A:2454:LEU:HD23	2.12	0.50
1:A:2928:LYS:O	1:A:2931:ARG:HB2	2.12	0.50
1:A:3502:MET:HA	1:A:3505:LEU:HD13	1.92	0.50
1:A:3586:LYS:HZ3	1:A:3671:ASN:HB3	1.76	0.50
1:A:3811:THR:HG21	1:A:3926:ASN:HA	1.94	0.50
1:A:3999:THR:O	1:A:4002:MET:HG2	2.11	0.50
2:B:95:ASN:OD1	2:B:98:ASN:N	2.43	0.50
3:C:448:GLU:HA	3:C:451:LEU:HB2	1.93	0.50
1:F:1164:CYS:N	1:F:1167:ASP:OD2	2.44	0.50
1:F:1384:PHE:H	1:F:1386:ILE:HG23	1.77	0.50
1:F:1454:ALA:O	1:F:1457:GLN:NE2	2.45	0.50
1:F:2350:LYS:HZ2	1:F:2378:PHE:HE2	1.60	0.50
1:F:2552:VAL:HA	1:F:2851:PHE:CG	2.46	0.50
1:F:3940:ILE:HG22	1:F:3941:ASP:N	2.27	0.50
2:G:93:ASP:OD2	2:G:100:LYS:CA	2.50	0.50
2:G:189:LYS:HA	2:G:192:ASP:OD2	2.12	0.50
3:H:69:SER:O	3:H:74:TYR:HB2	2.12	0.50
3:H:107:PHE:CE2	3:H:111:LEU:HD11	2.46	0.50
3:H:363:LYS:HG3	3:H:365:PHE:CE1	2.47	0.50
3:H:629:THR:HA	3:H:632:PHE:CE2	2.47	0.50
5:I:21:DA:H1'	5:I:22:DA:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:22:DG:O5'	6:D:22:DG:H8	1.95	0.50
6:D:31:DT:C2	7:E:26:DA:C2	3.00	0.50
1:A:100:ILE:HG13	1:A:103:TYR:HD2	1.77	0.50
1:A:230:LEU:HD23	1:A:234:PHE:CZ	2.46	0.50
1:A:1329:ARG:NE	1:A:1332:TYR:HB3	2.27	0.50
1:A:1559:PHE:HA	1:A:1562:LEU:HD12	1.94	0.50
1:A:2937:ASP:CG	1:A:3982:SER:HB3	2.32	0.50
1:A:3095:ASP:OD1	1:A:3095:ASP:N	2.43	0.50
2:B:71:TYR:O	2:B:75:ILE:HG13	2.12	0.50
2:B:289:TYR:H	2:B:294:GLU:N	2.10	0.50
3:C:337:GLY:H	3:C:399:LYS:HG2	1.76	0.50
3:C:629:THR:C	3:C:633:MET:HE2	2.33	0.50
1:F:471:LYS:HB3	1:F:474:VAL:HG22	1.93	0.50
1:F:1090:ARG:HG3	1:F:1091:GLU:OE1	2.12	0.50
1:F:1296:PHE:HA	1:F:1299:GLU:OE2	2.11	0.50
1:F:1374:GLN:HA	1:F:1377:CYS:SG	2.52	0.50
1:F:1608:ARG:HB2	1:F:1612:LYS:NZ	2.26	0.50
1:F:1921:ASP:OD1	1:F:1922:ALA:N	2.42	0.50
1:F:2158:ARG:HH21	1:F:2196:TRP:HB3	1.76	0.50
1:F:2268:LYS:HE3	1:F:2311:ARG:NH2	2.26	0.50
1:F:2409:THR:HG23	1:F:2445:LYS:HG2	1.94	0.50
1:F:2444:PRO:HA	1:F:2479:TRP:CZ2	2.47	0.50
1:F:2494:ASP:O	1:F:2497:GLU:HG2	2.12	0.50
1:F:2851:PHE:CD2	1:F:2854:PHE:HB2	2.34	0.50
1:F:3490:VAL:HG23	1:F:3494:GLN:OE1	2.12	0.50
1:F:3571:PHE:CD1	1:F:3686:TRP:HZ3	2.29	0.50
1:F:3923:ARG:HB2	1:F:3962:ARG:HB2	1.94	0.50
2:G:140:ASP:OD1	2:G:141:TYR:N	2.40	0.50
6:D:31:DT:N3	7:E:26:DA:C2	2.80	0.50
1:A:344:GLN:O	1:A:348:ILE:HG12	2.10	0.49
1:A:1400:VAL:O	1:A:1404:LYS:HG2	2.12	0.49
1:A:1464:LEU:HG	1:A:1521:PHE:CZ	2.46	0.49
1:A:2227:LYS:HE2	1:A:2230:VAL:HG22	1.94	0.49
1:A:2389:PHE:HB2	1:A:2394:LYS:HZ2	1.76	0.49
1:A:2911:ARG:NH2	1:A:2912:GLY:O	2.31	0.49
1:A:3193:ILE:HG13	1:A:3194:GLU:N	2.27	0.49
1:A:3237:SER:O	1:A:3240:MET:HB2	2.12	0.49
1:A:3675:LYS:HD3	1:A:3676:PRO:O	2.10	0.49
2:B:121:GLN:O	2:B:126:GLN:NE2	2.35	0.49
2:B:325:ARG:HH21	3:C:498:ALA:HA	1.76	0.49
2:B:458:GLN:O	2:B:462:MET:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:108:LEU:O	3:C:112:ILE:HG13	2.11	0.49
1:F:418:ALA:HB2	1:F:464:VAL:HG12	1.94	0.49
1:F:783:HIS:O	1:F:786:GLN:HG2	2.11	0.49
1:F:1090:ARG:HA	1:F:1096:VAL:HG11	1.94	0.49
1:F:1122:GLY:HA2	1:F:1125:GLN:HE22	1.77	0.49
1:F:1453:SER:HA	1:F:1456:LYS:HZ3	1.77	0.49
1:F:1593:VAL:O	1:F:1597:LEU:HG	2.12	0.49
1:F:2330:VAL:HG13	1:F:2333:ARG:HH12	1.77	0.49
1:F:2514:ASN:HB3	1:F:2517:LEU:HG	1.94	0.49
1:F:3495:PHE:HB3	1:F:3498:TRP:HB2	1.93	0.49
1:F:3632:PHE:HE1	1:F:3675:LYS:HB3	1.77	0.49
1:F:3765:GLU:HA	1:F:3768:PHE:CD2	2.42	0.49
2:G:261:LEU:HD23	2:G:345:LEU:HG	1.94	0.49
6:D:19:DA:C5	6:D:20:DT:C4	2.99	0.49
1:A:57:LEU:HD21	1:A:100:ILE:HD11	1.94	0.49
1:A:109:ASN:O	1:A:112:THR:OG1	2.30	0.49
1:A:133:LYS:O	1:A:137:THR:HG23	2.12	0.49
1:A:263:LYS:NZ	1:A:264:ARG:HB3	2.27	0.49
1:A:568:PHE:O	1:A:572:VAL:HG23	2.11	0.49
1:A:739:ASN:HA	1:A:742:GLU:CD	2.32	0.49
1:A:1891:ALA:CB	1:A:1895:LYS:H	2.24	0.49
1:A:2102:LYS:HA	1:A:2105:HIS:HB3	1.93	0.49
1:A:2158:ARG:NH2	1:A:2195:SER:O	2.45	0.49
1:A:2159:PRO:HG2	1:A:2160:TYR:CE1	2.47	0.49
1:A:2291:GLN:NE2	1:A:2295:GLN:HA	2.26	0.49
1:A:2903:ALA:O	1:A:2904:GLU:HG2	2.11	0.49
1:A:3386:SER:HA	1:A:3389:VAL:HG12	1.94	0.49
2:B:299:LYS:O	3:C:293:THR:HA	2.12	0.49
3:C:247:TRP:NE1	3:C:249:CYS:HB2	2.27	0.49
1:F:76:ILE:HG13	1:F:80:GLU:HG2	1.94	0.49
1:F:251:PHE:HA	1:F:254:LYS:HG2	1.93	0.49
1:F:899:ARG:HB3	1:F:2570:PRO:HD2	1.94	0.49
1:F:1038:LYS:HE2	1:F:1042:LYS:NZ	2.27	0.49
1:F:1756:PRO:HA	1:F:1797:LEU:HD11	1.94	0.49
1:F:1851:LEU:C	1:F:1852:LYS:HD3	2.33	0.49
1:F:2271:SER:HA	1:F:2274:ILE:HD13	1.93	0.49
1:F:2481:HIS:CD2	1:F:2530:ARG:HE	2.29	0.49
1:F:2490:GLU:O	1:F:2496:GLN:NE2	2.40	0.49
1:F:3493:TRP:HD1	1:F:3521:ILE:HG13	1.76	0.49
1:F:3511:ALA:O	1:F:3515:GLN:N	2.32	0.49
2:G:116:ILE:H	2:G:116:ILE:HD12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:524:THR:O	3:H:527:GLN:NE2	2.44	0.49
1:A:82:ARG:O	1:A:86:LEU:HG	2.12	0.49
1:A:370:ALA:O	1:A:374:LYS:N	2.44	0.49
1:A:531:PHE:CD2	1:A:633:ILE:HG21	2.41	0.49
1:A:1283:GLY:HA3	1:A:1356:TRP:CZ2	2.47	0.49
1:A:1394:HIS:ND1	1:A:1394:HIS:O	2.45	0.49
1:A:1674:THR:O	1:A:1678:LEU:HG	2.12	0.49
1:A:1752:LEU:HA	1:A:1788:ARG:HH22	1.78	0.49
1:A:1871:MET:HA	1:A:1874:TYR:HD2	1.77	0.49
1:A:2189:ILE:O	1:A:2193:ILE:HG13	2.12	0.49
1:A:2398:LEU:HD12	1:A:2431:ARG:HB2	1.94	0.49
2:B:490:LEU:HD22	3:C:323:PHE:CE2	2.47	0.49
3:C:209:LYS:HA	3:C:212:MET:HG3	1.93	0.49
3:C:263:ALA:HA	3:C:364:VAL:HA	1.93	0.49
3:C:609:PHE:O	3:C:654:ARG:NH2	2.44	0.49
1:F:895:ALA:HA	1:F:904:VAL:HG22	1.93	0.49
1:F:1143:VAL:HA	1:F:1146:ASN:HD22	1.76	0.49
1:F:1505:LEU:O	1:F:1509:GLN:HG3	2.11	0.49
1:F:2402:LEU:HA	1:F:2438:ILE:HG12	1.94	0.49
1:F:2820:MET:HA	1:F:2823:PHE:CZ	2.46	0.49
1:F:3020:ASP:N	1:F:3020:ASP:OD1	2.44	0.49
3:H:522:VAL:HA	3:H:525:LYS:HG2	1.94	0.49
6:D:16:DA:C5	6:D:17:DT:C4	2.99	0.49
7:E:27:DC:H2'	7:E:28:DT:C6	2.46	0.49
1:A:282:PHE:HB3	1:A:285:CYS:HB2	1.95	0.49
1:A:291:VAL:O	1:A:294:PHE:N	2.43	0.49
1:A:571:SER:HA	1:A:574:LYS:HG2	1.94	0.49
1:A:845:ALA:HB1	1:A:851:ILE:HD11	1.93	0.49
1:A:1756:PRO:HA	1:A:1759:LEU:CB	2.40	0.49
1:A:2447:LYS:HD3	1:A:2449:VAL:H	1.77	0.49
1:A:3164:TRP:HB3	1:A:3186:ARG:HH11	1.77	0.49
1:A:3729:MET:HE1	1:A:3737:ARG:CB	2.42	0.49
2:B:51:SER:HB3	2:B:54:GLU:O	2.12	0.49
2:B:354:VAL:HG13	2:B:355:LEU:HD22	1.95	0.49
1:F:435:LEU:O	1:F:438:LEU:HG	2.12	0.49
1:F:1334:LYS:O	1:F:1338:VAL:HG23	2.13	0.49
1:F:2443:MET:HE3	1:F:2476:ILE:HG12	1.93	0.49
1:F:2503:LYS:HA	1:F:2506:LEU:HD12	1.93	0.49
1:F:3059:GLN:HA	1:F:3062:LEU:HB2	1.93	0.49
1:F:3120:LEU:HD12	1:F:3121:LEU:HD22	1.95	0.49
1:F:3319:ASN:ND2	1:F:3321:LEU:HB3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:115:MET:O	3:H:115:MET:HE3	2.12	0.49
4:J:37:DG:H22	5:I:20:DT:H1'	1.76	0.49
1:A:289:ASN:OD1	1:A:292:SER:HB2	2.12	0.49
1:A:439:VAL:O	1:A:443:ILE:HG12	2.13	0.49
1:A:624:ILE:O	1:A:628:GLU:HG3	2.12	0.49
1:A:665:GLY:O	1:A:669:LEU:HG	2.12	0.49
1:A:871:LEU:HD23	1:A:872:THR:HG23	1.94	0.49
1:A:1070:PRO:HB2	1:A:3743:HIS:HA	1.94	0.49
1:A:1165:LEU:O	1:A:1169:VAL:HG23	2.13	0.49
1:A:1444:ASP:O	1:A:1448:LEU:HG	2.11	0.49
1:A:1836:LEU:H	1:A:1836:LEU:HD23	1.77	0.49
1:A:2572:TYR:O	1:A:2788:SER:N	2.46	0.49
1:A:2983:ASP:OD1	1:A:2983:ASP:N	2.46	0.49
1:A:3077:ILE:HA	1:A:3080:LEU:HG	1.94	0.49
1:A:3969:ASN:O	1:A:3972:LEU:HD23	2.12	0.49
3:C:721:GLU:HA	3:C:724:ASP:HB3	1.94	0.49
1:F:756:PHE:HB2	1:F:795:CYS:SG	2.53	0.49
1:F:1444:ASP:HA	1:F:1447:ARG:NH1	2.27	0.49
1:F:1597:LEU:O	1:F:1600:MET:HB2	2.12	0.49
1:F:2256:ILE:H	1:F:2256:ILE:HD12	1.76	0.49
1:F:2341:LEU:HA	1:F:2344:LEU:HD12	1.94	0.49
1:F:2479:TRP:HA	1:F:2482:ASP:OD2	2.12	0.49
1:F:3956:PRO:HB3	1:F:4068:HIS:CE1	2.48	0.49
3:H:74:TYR:CE1	3:H:109:ASP:HA	2.47	0.49
1:A:152:LEU:HD12	1:A:156:PHE:CZ	2.47	0.49
1:A:1468:LEU:HD13	1:A:1521:PHE:CE1	2.47	0.49
1:A:2831:ASN:O	1:A:2835:LYS:HG3	2.12	0.49
1:A:3020:ASP:N	1:A:3020:ASP:OD1	2.45	0.49
1:A:3029:LYS:HE3	1:A:3074:GLN:HG3	1.93	0.49
1:A:3042:PRO:O	1:A:3046:ARG:HG3	2.13	0.49
1:A:3096:VAL:HG13	1:A:3100:LYS:HZ2	1.78	0.49
1:A:3523:ASP:OD1	1:A:3561:LYS:HG2	2.12	0.49
1:A:3634:GLN:O	1:A:3638:LYS:HG3	2.12	0.49
3:C:674:PHE:CG	3:C:675:TRP:N	2.81	0.49
1:F:24:ARG:NH2	1:F:25:CYS:HA	2.28	0.49
1:F:54:GLN:HG2	1:F:55:THR:N	2.27	0.49
1:F:225:LYS:HZ3	1:F:268:PRO:HA	1.77	0.49
1:F:484:HIS:NE2	1:F:575:ILE:HG13	2.28	0.49
1:F:940:PHE:CE1	1:F:944:LYS:HE3	2.48	0.49
2:G:273:ILE:HG23	2:G:368:VAL:HG23	1.93	0.49
3:H:55:ALA:O	3:H:57:VAL:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:165:LEU:N	3:H:226:SER:HA	2.26	0.49
3:H:659:LEU:HD22	3:H:688:LYS:HZ1	1.77	0.49
7:E:21:DA:H2"	7:E:22:DA:C8	2.47	0.49
1:A:382:ASP:O	1:A:386:VAL:HG23	2.12	0.49
1:A:641:PHE:O	1:A:645:TRP:HZ3	1.96	0.49
1:A:737:PRO:O	1:A:740:ILE:HG12	2.13	0.49
1:A:858:MET:HA	1:A:861:SER:OG	2.12	0.49
1:A:877:ASP:HA	1:A:880:MET:SD	2.53	0.49
1:A:960:GLN:O	1:A:963:LYS:HG2	2.12	0.49
1:A:1104:LEU:HD13	1:A:1134:LEU:HD11	1.95	0.49
1:A:1235:ILE:H	1:A:1235:ILE:HD12	1.78	0.49
1:A:1361:LYS:HE3	1:A:1411:TYR:CE1	2.47	0.49
1:A:1606:ARG:NH1	1:A:1607:GLU:OE2	2.46	0.49
1:A:1692:ALA:HA	1:A:1695:LEU:HD13	1.95	0.49
1:A:1897:ASN:HB2	1:A:1911:LEU:HD23	1.94	0.49
1:A:2393:LEU:O	1:A:2396:LEU:HB2	2.12	0.49
1:A:2791:ILE:O	1:A:2794:LEU:HB2	2.12	0.49
1:A:3563:ASP:HB3	1:A:3566:GLY:HA3	1.95	0.49
1:A:3809:THR:HB	1:A:3931:ALA:HB2	1.95	0.49
2:B:304:ASN:OD1	2:B:309:GLY:N	2.46	0.49
3:C:182:PRO:O	3:C:189:GLY:HA2	2.12	0.49
1:F:42:CYS:HB2	1:F:88:PHE:CD1	2.48	0.49
1:F:203:GLU:OE1	1:F:203:GLU:HA	2.13	0.49
1:F:1220:LEU:HA	1:F:1223:THR:HG22	1.95	0.49
1:F:1256:TRP:HH2	1:F:1296:PHE:CD2	2.30	0.49
1:F:1295:ALA:O	1:F:1298:LEU:HB2	2.13	0.49
1:F:1428:ILE:HG13	1:F:1429:GLU:N	2.26	0.49
1:F:1476:HIS:H	1:F:1524:LEU:HD21	1.76	0.49
1:F:1776:GLU:OE1	1:F:1776:GLU:N	2.41	0.49
1:F:2215:LEU:O	1:F:2219:LEU:HG	2.12	0.49
1:F:2349:LEU:HD12	1:F:2378:PHE:CE1	2.47	0.49
1:F:3571:PHE:O	1:F:3575:LEU:HG	2.12	0.49
1:F:3814:ASP:OD1	1:F:3815:LEU:N	2.46	0.49
1:F:4006:VAL:HG23	1:F:4011:PHE:CD2	2.48	0.49
3:H:183:PHE:HE2	3:H:192:PHE:HE1	1.59	0.49
3:H:461:MET:HE1	3:H:523:THR:HG22	1.95	0.49
3:H:651:GLU:HB3	3:H:654:ARG:HB2	1.95	0.49
1:A:315:ALA:O	1:A:318:SER:OG	2.26	0.49
1:A:697:ASP:HB2	1:A:700:LYS:NZ	2.27	0.49
1:A:1354:GLU:OE2	1:A:1410:PRO:HD3	2.13	0.49
1:A:1663:THR:H	1:A:1665:HIS:HE1	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2125:TRP:CZ3	1:A:2126:MET:HB2	2.48	0.49
1:A:2429:ASP:HA	1:A:2432:GLN:NE2	2.27	0.49
1:A:2772:TYR:N	1:A:2775:TYR:OH	2.39	0.49
1:A:2803:ILE:O	1:A:2806:LYS:HG3	2.13	0.49
1:A:3160:LEU:HD12	1:A:3163:THR:HB	1.94	0.49
1:A:3391:ALA:HA	1:A:3394:GLU:OE2	2.13	0.49
1:A:3813:LYS:HA	1:A:3816:LEU:HD12	1.93	0.49
1:A:3898:LEU:HA	1:A:3901:ARG:HG3	1.94	0.49
1:A:3979:LEU:O	1:A:3983:ILE:HD12	2.12	0.49
1:A:4078:VAL:O	1:A:4082:ARG:HG3	2.12	0.49
2:B:273:ILE:HG23	2:B:367:PHE:O	2.13	0.49
1:F:374:LYS:NZ	1:F:423:TYR:O	2.30	0.49
1:F:1202:ARG:NH2	1:F:1210:ASP:HB2	2.27	0.49
1:F:2086:ASP:OD1	1:F:2184:TYR:OH	2.21	0.49
1:F:2311:ARG:HH12	1:F:2312:TYR:HB2	1.75	0.49
1:F:2550:ILE:O	1:F:2550:ILE:HG22	2.13	0.49
1:F:2850:PHE:HD2	1:F:2882:ALA:HB3	1.78	0.49
1:F:3232:ARG:HH22	1:F:3268:THR:HG1	1.59	0.49
1:F:3374:ILE:HA	1:F:3377:LEU:HD12	1.94	0.49
1:F:3812:LEU:HB3	1:F:3925:LEU:CD2	2.42	0.49
1:F:3815:LEU:O	1:F:3819:THR:HG23	2.13	0.49
2:G:158:GLN:OE1	2:G:158:GLN:N	2.45	0.49
2:G:473:TYR:HB2	3:H:346:CYS:CB	2.43	0.49
1:A:438:LEU:HA	1:A:441:MET:HE2	1.94	0.49
1:A:451:PRO:O	1:A:455:LEU:HG	2.13	0.49
1:A:797:ASP:HB2	1:A:801:LYS:HE2	1.94	0.49
1:A:1444:ASP:HA	1:A:1447:ARG:NE	2.28	0.49
1:A:1539:SER:HA	1:A:1552:HIS:ND1	2.27	0.49
1:A:1874:TYR:HB2	1:A:1943:ALA:HB1	1.94	0.49
1:A:2437:ASP:O	1:A:2441:LYS:HG2	2.13	0.49
1:A:2937:ASP:OD1	1:A:3979:LEU:HA	2.13	0.49
1:A:3258:LEU:HA	1:A:3261:GLU:OE2	2.13	0.49
1:A:3531:TYR:HA	1:A:3534:ILE:HD12	1.95	0.49
1:A:3707:GLY:C	1:A:3708:ARG:HD3	2.33	0.49
2:B:71:TYR:CE2	2:B:75:ILE:HD11	2.48	0.49
2:B:279:LYS:HZ2	3:C:357:MET:HB3	1.77	0.49
3:C:395:TYR:CE1	3:C:397:TYR:HB2	2.47	0.49
1:F:210:SER:O	1:F:212:VAL:N	2.44	0.49
1:F:429:GLU:O	1:F:432:THR:HG22	2.13	0.49
1:F:497:LEU:HD12	1:F:498:PRO:HD2	1.94	0.49
1:F:623:PHE:CE2	1:F:663:ILE:HG21	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:786:GLN:HA	1:F:789:TYR:CD2	2.48	0.49
1:F:826:PHE:CE2	1:F:836:LYS:HD2	2.47	0.49
1:F:1538:LEU:HB2	1:F:1555:HIS:CE1	2.48	0.49
1:F:1765:VAL:HA	1:F:1768:ARG:CZ	2.42	0.49
1:F:1766:LEU:HD11	1:F:1775:GLU:HG3	1.95	0.49
1:F:2897:LEU:HB2	1:F:2922:ARG:HD3	1.95	0.49
1:F:3147:LYS:HB3	1:F:3150:ASN:OD1	2.12	0.49
1:F:3549:HIS:HA	1:F:3552:LYS:HD2	1.93	0.49
1:F:3617:LEU:HD11	1:F:3636:PHE:HB2	1.95	0.49
2:G:470:ARG:NE	3:H:346:CYS:HA	2.28	0.49
3:H:8:ALA:HA	3:H:129:LYS:HB3	1.95	0.49
3:H:406:GLY:HA3	3:H:421:TYR:CE1	2.48	0.49
1:A:302:ALA:HA	1:A:309:LYS:HE3	1.94	0.49
1:A:1367:HIS:ND1	1:A:1370:ARG:HD3	2.27	0.49
1:A:1645:VAL:O	1:A:1649:LEU:HG	2.13	0.49
1:A:1848:ILE:HG22	1:A:1915:LEU:HD21	1.95	0.49
1:A:3034:PRO:HB2	1:A:3037:GLN:OE1	2.13	0.49
1:A:3045:ILE:O	1:A:3049:LEU:HG	2.12	0.49
1:A:3266:SER:HA	1:A:3272:TRP:HB3	1.93	0.49
1:A:3382:PHE:O	1:A:3385:LEU:HG	2.13	0.49
1:A:3681:LYS:HE2	1:A:3724:GLU:HA	1.95	0.49
1:A:3860:LYS:HD3	1:A:4073:ALA:H	1.76	0.49
1:A:3913:ILE:O	1:A:3916:TRP:N	2.45	0.49
2:B:147:LEU:HB2	2:B:189:LYS:HE2	1.94	0.49
3:C:264:TYR:HB2	3:C:363:LYS:HG3	1.95	0.49
3:C:407:VAL:HG12	3:C:424:LEU:HD21	1.95	0.49
1:F:132:ILE:HD12	1:F:135:LEU:HD12	1.94	0.49
1:F:848:LEU:HA	1:F:851:ILE:HD12	1.95	0.49
1:F:933:LEU:HD22	1:F:2794:LEU:HD23	1.95	0.49
1:F:1404:LYS:NZ	1:F:1460:ARG:O	2.45	0.49
1:F:1772:HIS:N	1:F:1775:GLU:OE2	2.45	0.49
1:F:1913:LYS:HA	1:F:1916:ILE:HD12	1.94	0.49
1:F:2253:TYR:O	1:F:2257:PHE:N	2.23	0.49
1:F:2361:ILE:HD12	1:F:2361:ILE:H	1.77	0.49
1:F:2397:CYS:O	1:F:2401:VAL:HG23	2.13	0.49
1:F:2462:VAL:O	1:F:2463:SER:OG	2.27	0.49
1:F:3769:GLN:HA	1:F:3772:ASN:HB2	1.95	0.49
2:G:87:PHE:HB2	2:G:103:TYR:HB3	1.95	0.49
2:G:410:PHE:HB3	2:G:437:LEU:HD21	1.93	0.49
3:H:232:ARG:C	3:H:233:LYS:HD2	2.33	0.49
1:A:99:LYS:C	1:A:101:ALA:H	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:GLN:HA	1:A:246:ARG:HE	1.78	0.48
1:A:1004:GLN:O	1:A:1007:VAL:HG22	2.13	0.48
1:A:1095:LEU:HD12	1:A:1099:PHE:HE2	1.78	0.48
1:A:1424:THR:HG1	1:A:1427:SER:N	2.11	0.48
1:A:2792:THR:O	1:A:2795:GLN:HB3	2.13	0.48
1:A:3450:MET:CE	1:A:3468:LEU:HD22	2.43	0.48
1:A:3796:MET:N	1:A:3801:GLY:HA2	2.28	0.48
2:B:119:LEU:HA	2:B:122:PHE:CE2	2.48	0.48
2:B:462:MET:HE3	3:C:380:LEU:HA	1.95	0.48
3:C:524:THR:HA	3:C:527:GLN:HG2	1.95	0.48
1:F:320:LEU:HB2	1:F:368:LEU:HD22	1.95	0.48
1:F:484:HIS:CD2	1:F:574:LYS:HD2	2.48	0.48
1:F:581:LEU:HD21	1:F:659:ARG:HH11	1.77	0.48
1:F:663:ILE:HB	1:F:666:PHE:CE2	2.48	0.48
1:F:678:LYS:NZ	1:F:683:PHE:H	2.10	0.48
1:F:801:LYS:O	1:F:3115:SER:HB2	2.13	0.48
1:F:1376:LEU:HD21	1:F:1457:GLN:HE22	1.78	0.48
1:F:1527:ARG:O	1:F:1530:SER:OG	2.22	0.48
1:F:1598:ASN:HA	1:F:1601:LEU:HD12	1.95	0.48
1:F:1729:PHE:HA	1:F:1735:ARG:HH22	1.78	0.48
1:F:2238:ILE:O	1:F:2242:VAL:HG13	2.13	0.48
3:H:271:ARG:HD3	3:H:486:ARG:HH22	1.78	0.48
3:H:348:SER:HA	3:H:390:VAL:HG13	1.94	0.48
3:H:595:ALA:HA	3:H:598:PHE:CE2	2.47	0.48
1:A:70:ARG:CZ	1:A:82:ARG:NH2	2.76	0.48
1:A:667:TYR:CD2	1:A:729:CYS:HB3	2.48	0.48
1:A:862:LEU:HD21	1:A:866:ILE:HB	1.95	0.48
1:A:1182:GLU:HA	1:A:1185:HIS:ND1	2.28	0.48
1:A:1368:LEU:O	1:A:1372:LEU:HG	2.13	0.48
1:A:2276:LEU:HA	1:A:2279:ILE:HD12	1.93	0.48
1:A:2936:TYR:HA	1:A:2939:LEU:CD1	2.43	0.48
1:A:3530:VAL:O	1:A:3534:ILE:HG13	2.14	0.48
1:A:3706:ASP:HB3	1:A:3708:ARG:CZ	2.43	0.48
1:A:3973:PRO:HG2	1:A:3974:MET:SD	2.53	0.48
2:B:471:PHE:HD2	3:C:344:GLY:HA2	1.77	0.48
3:C:573:GLY:C	3:C:575:HIS:H	2.16	0.48
3:C:640:ARG:O	3:C:643:ARG:NH1	2.46	0.48
1:F:172:GLU:HB2	1:F:219:VAL:HG12	1.95	0.48
1:F:210:SER:HB3	2:G:332:GLU:OE2	2.13	0.48
1:F:458:CYS:O	1:F:462:VAL:HG23	2.13	0.48
1:F:827:ASN:HB3	1:F:836:LYS:HE2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1495:ASP:OD1	1:F:1495:ASP:N	2.47	0.48
1:F:2340:SER:HA	1:F:2343:GLU:OE2	2.13	0.48
1:F:2356:MET:SD	1:F:2357:GLU:N	2.86	0.48
1:F:2987:THR:HG22	1:F:2990:GLU:OE1	2.13	0.48
1:F:3254:LEU:O	1:F:3258:LEU:HG	2.13	0.48
1:F:3353:GLU:HB3	1:F:3355:LYS:HE2	1.94	0.48
1:F:3766:GLN:HA	1:F:3769:GLN:NE2	2.27	0.48
1:F:3965:ARG:HA	1:F:3968:ILE:HB	1.95	0.48
1:F:4100:GLU:HG2	1:F:4101:GLU:N	2.28	0.48
1:F:4125:GLU:HA	1:F:4127:TRP:CZ3	2.48	0.48
2:G:59:PRO:HA	2:G:62:MET:HG2	1.95	0.48
1:A:214:GLU:HG2	2:B:403:ARG:HH22	1.78	0.48
1:A:535:LEU:HD22	1:A:637:LYS:HB2	1.96	0.48
1:A:672:ILE:HG13	1:A:673:THR:N	2.28	0.48
1:A:1101:PHE:O	1:A:1105:VAL:HG23	2.12	0.48
1:A:2343:GLU:HB3	1:A:2347:LYS:NZ	2.29	0.48
1:A:3820:MET:HE2	1:A:3821:SER:N	2.28	0.48
1:A:3967:PHE:HB3	1:A:3971:MET:HE1	1.94	0.48
2:B:403:ARG:HD3	2:B:404:ARG:N	2.29	0.48
1:F:151:GLU:O	1:F:154:SER:OG	2.22	0.48
1:F:363:ILE:HA	1:F:366:TYR:HD2	1.77	0.48
1:F:414:LEU:HD11	1:F:461:ILE:HG13	1.94	0.48
1:F:471:LYS:O	1:F:475:LEU:N	2.44	0.48
1:F:1058:SER:HA	1:F:1061:LYS:HE2	1.94	0.48
1:F:1155:ARG:HH22	1:F:3691:LYS:HB3	1.77	0.48
1:F:1224:PHE:CZ	1:F:1281:VAL:HG13	2.47	0.48
1:F:2549:LYS:HB3	1:F:2550:ILE:HD12	1.95	0.48
1:F:3374:ILE:HG22	1:F:3377:LEU:HD12	1.94	0.48
1:F:3593:ARG:NH2	1:F:3661:ASP:OD1	2.27	0.48
1:F:3681:LYS:O	1:F:3688:SER:OG	2.31	0.48
1:F:3706:ASP:HB3	1:F:3708:ARG:HH22	1.78	0.48
1:F:3813:LYS:NZ	1:F:3925:LEU:HB3	2.28	0.48
1:F:3816:LEU:CD1	1:F:3882:LEU:HD11	2.43	0.48
3:H:58:LEU:N	3:H:78:THR:O	2.46	0.48
1:A:471:LYS:NZ	1:A:473:PRO:HG2	2.28	0.48
1:A:848:LEU:HB3	1:A:852:ARG:NH1	2.29	0.48
1:A:2106:ARG:HA	1:A:2106:ARG:CZ	2.44	0.48
1:A:2233:HIS:O	1:A:2237:ILE:HD12	2.13	0.48
1:A:3098:ARG:HG2	1:A:3101:TYR:HB3	1.95	0.48
2:B:357:LYS:N	2:B:360:HIS:HE1	2.12	0.48
1:F:98:GLN:HE22	1:F:141:SER:N	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:387:GLU:HB2	1:F:391:ARG:HH11	1.77	0.48
1:F:457:CYS:O	1:F:461:ILE:HD12	2.12	0.48
1:F:1016:GLY:O	1:F:1026:ARG:HG2	2.13	0.48
1:F:2186:VAL:O	1:F:2190:VAL:HG23	2.13	0.48
1:F:2551:GLU:OE1	1:F:2551:GLU:N	2.46	0.48
1:F:3716:HIS:H	1:F:3718:ARG:NH1	2.12	0.48
2:G:238:LYS:O	2:G:242:LEU:N	2.38	0.48
2:G:267:ILE:HD13	3:H:534:LYS:HE2	1.94	0.48
2:G:282:LYS:HZ3	2:G:483:LEU:HD13	1.77	0.48
2:G:302:THR:HG23	2:G:311:LEU:HD23	1.94	0.48
2:G:372:GLU:OE2	2:G:376:ILE:HA	2.13	0.48
3:H:632:PHE:O	3:H:636:ILE:HG12	2.14	0.48
1:A:75:SER:HB3	1:A:78:PHE:CD1	2.49	0.48
1:A:155:LYS:O	1:A:158:GLY:N	2.46	0.48
1:A:210:SER:O	1:A:213:ARG:NH1	2.46	0.48
1:A:475:LEU:O	1:A:479:ILE:HG12	2.14	0.48
1:A:1069:HIS:CD2	1:A:1070:PRO:HD2	2.47	0.48
1:A:1215:GLU:C	1:A:1219:PHE:HB2	2.34	0.48
1:A:1333:SER:O	1:A:1336:THR:OG1	2.22	0.48
1:A:2804:ILE:HG13	1:A:2805:ALA:N	2.29	0.48
1:A:2937:ASP:OD2	1:A:3982:SER:HB3	2.12	0.48
1:A:4089:ILE:HA	1:A:4092:GLN:NE2	2.28	0.48
2:B:287:LYS:HE2	2:B:296:VAL:HG22	1.95	0.48
3:C:157:CYS:SG	3:C:159:ILE:HD11	2.54	0.48
3:C:249:CYS:HB3	3:C:261:ILE:HG13	1.94	0.48
3:C:501:PRO:HD2	3:C:502:ARG:NH2	2.29	0.48
3:C:661:ALA:O	3:C:665:LYS:HG2	2.12	0.48
3:C:667:GLU:HA	3:C:670:GLN:OE1	2.13	0.48
1:F:86:LEU:HB3	1:F:129:ASP:HB3	1.95	0.48
1:F:229:SER:HA	1:F:278:HIS:CE1	2.48	0.48
1:F:237:SER:OG	1:F:238:MET:N	2.44	0.48
1:F:1095:LEU:HA	1:F:1099:PHE:CD2	2.48	0.48
1:F:2250:SER:HA	1:F:2291:GLN:NE2	2.28	0.48
1:F:3241:LYS:HA	1:F:3244:ASP:OD2	2.14	0.48
1:F:3263:HIS:O	1:F:3267:LYS:HG3	2.12	0.48
1:F:3568:ILE:HA	1:F:3571:PHE:CD2	2.48	0.48
1:F:3739:ILE:HA	1:F:3749:PRO:HA	1.95	0.48
1:F:3817:LEU:HD21	1:F:3825:LYS:HD3	1.94	0.48
1:F:3869:THR:HA	1:F:3872:ARG:NH1	2.29	0.48
1:F:4102:THR:HA	1:F:4105:LYS:NZ	2.29	0.48
2:G:367:PHE:HE1	2:G:431:GLY:HA3	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:394:ARG:HH21	3:H:403:PRO:HB3	1.78	0.48
3:H:678:VAL:O	3:H:682:GLY:N	2.46	0.48
1:A:335:LYS:O	1:A:338:LEU:HG	2.14	0.48
1:A:738:HIS:HA	1:A:776:TRP:NE1	2.27	0.48
1:A:1183:CYS:HA	1:A:1186:LYS:HG2	1.96	0.48
1:A:2494:ASP:O	1:A:2498:ILE:HG12	2.13	0.48
1:A:2587:GLN:N	1:A:2587:GLN:OE1	2.46	0.48
1:A:3963:LEU:HA	1:A:3967:PHE:CE2	2.49	0.48
2:B:335:GLU:HA	2:B:338:LYS:HG2	1.96	0.48
2:B:471:PHE:CE1	2:B:506:LEU:HD21	2.48	0.48
3:C:509:GLN:NE2	3:C:511:HIS:HB3	2.29	0.48
3:C:612:ALA:H	3:C:615:GLN:HE22	1.60	0.48
1:F:12:LEU:HA	1:F:15:LEU:HD12	1.93	0.48
1:F:524:TYR:O	1:F:528:VAL:HG13	2.13	0.48
1:F:767:GLU:O	1:F:771:ASN:ND2	2.47	0.48
1:F:786:GLN:HA	1:F:789:TYR:CE2	2.47	0.48
1:F:1648:LEU:O	1:F:1652:ILE:HG12	2.13	0.48
1:F:1664:SER:HA	1:F:1669:PRO:HD3	1.96	0.48
1:F:1782:PHE:O	1:F:1785:ILE:HG12	2.13	0.48
1:F:3008:TRP:HD1	1:F:3011:LEU:HD22	1.78	0.48
1:F:3076:ALA:O	1:F:3080:LEU:HG	2.13	0.48
1:F:3120:LEU:HD21	1:F:3895:GLU:HB3	1.95	0.48
1:F:4113:ASP:O	1:F:4117:LEU:HG	2.14	0.48
3:H:464:ALA:HB2	3:H:475:ASP:HA	1.94	0.48
6:D:33:DA:H2	7:E:24:DA:C2	2.32	0.48
1:A:14:ARG:NH1	1:A:15:LEU:HG	2.28	0.48
1:A:389:ILE:HD13	1:A:431:TYR:HD2	1.78	0.48
1:A:434:VAL:O	1:A:438:LEU:HG	2.14	0.48
1:A:1041:ILE:HA	1:A:1044:ILE:HB	1.96	0.48
1:A:1071:ASN:ND2	1:A:1073:PHE:HB2	2.27	0.48
1:A:1110:SER:HA	1:A:1113:LEU:HD23	1.96	0.48
1:A:1377:CYS:SG	1:A:1378:GLU:N	2.87	0.48
1:A:1558:TYR:O	1:A:1562:LEU:HG	2.13	0.48
1:A:1897:ASN:O	1:A:1911:LEU:HG	2.13	0.48
1:A:2852:PRO:HG2	1:A:2853:PRO:HD3	1.96	0.48
1:A:3302:LYS:HD2	1:A:3305:SER:OG	2.13	0.48
1:A:3631:LYS:HZ1	1:A:3635:THR:HB	1.78	0.48
1:A:3700:GLU:OE2	1:A:3717:VAL:N	2.46	0.48
1:A:3988:LEU:HA	1:A:3991:PHE:CD2	2.49	0.48
1:A:4100:GLU:CD	1:A:4100:GLU:H	2.17	0.48
2:B:350:PHE:HB2	3:C:461:MET:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:216:GLU:HB3	3:C:219:ASP:HB3	1.95	0.48
1:F:295:GLU:OE2	1:F:296:VAL:HG13	2.13	0.48
1:F:305:ASN:OD1	1:F:307:GLU:HB3	2.13	0.48
1:F:926:THR:HG23	1:F:2800:ARG:NH2	2.25	0.48
1:F:1847:ALA:HA	1:F:1873:TYR:CD2	2.48	0.48
1:F:2314:GLU:OE2	1:F:2318:ALA:HB2	2.14	0.48
1:F:2586:PHE:HB2	1:F:2776:ARG:NE	2.28	0.48
1:F:3443:PRO:HG2	1:F:3475:TYR:CZ	2.49	0.48
1:F:3495:PHE:HA	1:F:3498:TRP:HD1	1.78	0.48
1:F:3797:THR:HB	1:F:3800:LEU:HB3	1.95	0.48
2:G:299:LYS:H	3:H:293:THR:HG23	1.78	0.48
3:H:313:GLY:CA	3:H:322:PRO:HA	2.43	0.48
1:A:143:LEU:HD12	1:A:144:MET:SD	2.54	0.48
1:A:459:ARG:NH1	1:A:540:MET:SD	2.87	0.48
1:A:746:ARG:HB3	1:A:788:TYR:CE1	2.48	0.48
1:A:895:ALA:N	1:A:904:VAL:HG23	2.28	0.48
1:A:1146:ASN:O	1:A:1164:CYS:HB2	2.14	0.48
1:A:1361:LYS:HE3	1:A:1411:TYR:CZ	2.48	0.48
1:A:1887:ASP:O	1:A:1890:HIS:NE2	2.46	0.48
1:A:2210:VAL:HG23	1:A:2211:LEU:HG	1.96	0.48
1:A:2543:ASN:ND2	1:A:2836:LEU:HD11	2.29	0.48
2:B:285:PRO:HB3	3:C:314:PHE:HE1	1.79	0.48
2:B:461:LYS:HB3	2:B:527:GLU:CD	2.33	0.48
1:F:410:MET:HA	1:F:413:PHE:CD2	2.42	0.48
1:F:678:LYS:NZ	1:F:683:PHE:O	2.45	0.48
1:F:741:ILE:HD11	1:F:776:TRP:CD1	2.49	0.48
1:F:1098:GLN:NE2	1:F:1151:ARG:HG3	2.28	0.48
1:F:1656:ASP:HB2	1:F:1660:SER:OG	2.14	0.48
1:F:2197:THR:H	1:F:5009:UNK:H2	1.60	0.48
1:F:2313:LYS:HA	1:F:2316:TYR:CE1	2.48	0.48
1:F:2324:GLY:CA	1:F:2367:VAL:HG23	2.43	0.48
1:F:2382:VAL:O	1:F:2386:LEU:N	2.47	0.48
1:F:2410:GLU:O	1:F:2414:GLN:NE2	2.46	0.48
1:F:3295:GLU:O	1:F:3299:THR:HG23	2.13	0.48
1:F:3443:PRO:HG2	1:F:3475:TYR:CE2	2.48	0.48
1:F:3940:ILE:HG22	1:F:3941:ASP:H	1.78	0.48
2:G:357:LYS:HG3	3:H:413:LYS:HZ1	1.79	0.48
3:H:232:ARG:HD2	3:H:477:PHE:CE1	2.49	0.48
3:H:600:VAL:O	3:H:604:GLN:HG2	2.13	0.48
3:H:708:LYS:HE3	3:H:710:LYS:HB2	1.96	0.48
1:A:211:ALA:CB	1:A:215:PRO:HB2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:303:HIS:H	1:A:309:LYS:HE3	1.79	0.48
1:A:575:ILE:O	1:A:578:LYS:HB3	2.13	0.48
1:A:605:THR:HG22	1:A:607:ASP:H	1.77	0.48
1:A:752:LEU:HD12	1:A:753:GLN:N	2.28	0.48
1:A:890:LYS:HE2	1:A:906:PHE:CD2	2.48	0.48
1:A:898:PHE:HE2	1:A:903:PRO:HD2	1.77	0.48
1:A:1061:LYS:HA	1:A:1064:TYR:HD2	1.79	0.48
1:A:1935:GLU:HA	1:A:1938:ARG:HG2	1.95	0.48
1:A:2518:GLN:O	1:A:2522:ARG:N	2.32	0.48
1:A:2771:LEU:HB3	1:A:2775:TYR:CE2	2.48	0.48
1:A:3136:THR:O	1:A:3139:GLN:NE2	2.45	0.48
1:A:3321:LEU:O	1:A:3324:ARG:HG3	2.13	0.48
1:A:3823:GLU:HG2	1:A:3824:GLU:H	1.78	0.48
1:A:3971:MET:HG3	1:A:3974:MET:SD	2.53	0.48
3:C:64:THR:HB	3:C:76:ASN:N	2.29	0.48
3:C:442:LYS:HG3	3:C:443:LYS:HD3	1.95	0.48
1:F:638:GLN:HE22	1:F:640:GLU:HB3	1.79	0.48
1:F:683:PHE:HE1	1:F:700:LYS:HB3	1.77	0.48
1:F:892:LEU:HD13	1:F:944:LYS:HG3	1.96	0.48
1:F:1181:THR:OG1	1:F:1265:GLU:OE1	2.24	0.48
1:F:2155:GLU:HA	1:F:2158:ARG:HG2	1.96	0.48
1:F:3006:ALA:HA	1:F:3008:TRP:CH2	2.49	0.48
1:F:3103:ILE:O	1:F:3106:GLY:N	2.47	0.48
1:F:3531:TYR:HB2	1:F:3532:PRO:HD3	1.95	0.48
1:F:3644:PHE:HA	1:F:3653:ARG:NH1	2.29	0.48
1:F:3835:PRO:HA	1:F:3839:TYR:HD2	1.79	0.48
1:F:3862:ALA:HB3	1:F:4119:ARG:HE	1.78	0.48
1:F:4085:LYS:HG3	1:F:4092:GLN:HG2	1.96	0.48
2:G:72:ILE:HA	2:G:75:ILE:HD12	1.96	0.48
3:H:552:GLU:CG	3:H:553:ILE:H	2.22	0.48
1:A:213:ARG:HB3	1:A:214:GLU:OE1	2.14	0.48
1:A:373:CYS:SG	1:A:381:VAL:HG12	2.54	0.48
1:A:380:ASP:HB3	3:C:574:ALA:O	2.13	0.48
1:A:1745:LYS:HA	1:A:1748:ASP:OD2	2.13	0.48
1:A:2216:LEU:O	1:A:2219:LEU:HB2	2.14	0.48
1:A:2412:TYR:HE1	1:A:2454:LEU:HD21	1.78	0.48
1:A:2512:ASP:OD2	1:A:2518:GLN:HG2	2.13	0.48
1:A:2773:ARG:NH1	1:A:2775:TYR:HA	2.28	0.48
1:A:3005:LEU:HA	1:A:3254:LEU:HD13	1.96	0.48
1:A:3897:PHE:O	1:A:3901:ARG:HG2	2.14	0.48
2:B:332:GLU:HA	2:B:335:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:483:LEU:HG	2:B:487:PHE:CE2	2.46	0.48
3:C:558:HIS:CD2	3:C:559:GLU:HG3	2.49	0.48
1:F:289:ASN:OD1	1:F:292:SER:HB2	2.14	0.48
1:F:746:ARG:HA	1:F:749:VAL:HG13	1.95	0.48
1:F:1225:GLU:CD	1:F:1234:GLY:HA3	2.34	0.48
1:F:1731:PRO:HA	1:F:1736:PHE:CD2	2.48	0.48
1:F:1801:VAL:HA	1:F:1804:MET:CE	2.43	0.48
1:F:2228:ARG:HG2	1:F:2232:ARG:HH22	1.77	0.48
1:F:3059:GLN:OE1	1:F:3063:THR:OG1	2.31	0.48
1:F:3148:GLN:O	1:F:3151:LEU:HG	2.14	0.48
1:F:3707:GLY:O	1:F:3708:ARG:NE	2.47	0.48
2:G:263:LEU:HD12	2:G:267:ILE:HD11	1.95	0.48
2:G:365:SER:HB2	2:G:435:VAL:HG12	1.95	0.48
3:H:11:VAL:HA	3:H:55:ALA:HB3	1.96	0.48
3:H:76:ASN:HB2	3:H:105:ALA:HB2	1.94	0.48
1:A:478:CYS:O	1:A:482:VAL:HG13	2.14	0.47
1:A:558:GLU:O	1:A:560:LEU:N	2.47	0.47
1:A:2105:HIS:ND1	1:A:2156:VAL:HG22	2.29	0.47
1:A:2174:SER:OG	1:A:2214:ARG:HG2	2.14	0.47
1:A:2225:HIS:HB2	1:A:2231:PHE:CB	2.45	0.47
1:A:2314:GLU:HA	1:A:2317:ALA:HB3	1.96	0.47
1:A:2808:LEU:O	1:A:2811:SER:OG	2.27	0.47
1:A:2851:PHE:HD2	1:A:2854:PHE:HB2	1.79	0.47
1:A:3007:GLU:OE2	1:A:3009:LYS:HB2	2.13	0.47
1:A:3031:TRP:O	1:A:3038:GLU:HG3	2.14	0.47
1:A:3083:SER:HA	1:A:3086:LEU:HB3	1.95	0.47
1:A:3103:ILE:O	1:A:3107:ILE:HG12	2.14	0.47
1:A:3530:VAL:HG22	1:A:3534:ILE:HD11	1.95	0.47
2:B:389:CYS:SG	2:B:415:PRO:HB2	2.54	0.47
3:C:131:HIS:NE2	3:C:239:LYS:HG2	2.29	0.47
3:C:262:ALA:N	3:C:365:PHE:O	2.33	0.47
3:C:612:ALA:H	3:C:615:GLN:NE2	2.12	0.47
1:F:738:HIS:HA	1:F:776:TRP:NE1	2.29	0.47
1:F:749:VAL:O	1:F:753:GLN:NE2	2.43	0.47
1:F:862:LEU:O	1:F:3167:ARG:NH2	2.47	0.47
1:F:1266:CYS:O	1:F:1269:THR:HG22	2.14	0.47
1:F:1367:HIS:CD2	1:F:1371:VAL:HG11	2.49	0.47
1:F:1785:ILE:N	1:F:1830:HIS:HE1	2.11	0.47
1:F:2149:LEU:O	1:F:2153:THR:N	2.47	0.47
1:F:2508:GLN:HA	1:F:2550:ILE:HD11	1.95	0.47
1:F:3232:ARG:NH2	1:F:3265:GLU:O	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3503:VAL:HG11	1:F:3532:PRO:HB3	1.95	0.47
1:F:3966:GLN:O	1:F:3969:ASN:HB2	2.14	0.47
2:G:376:ILE:HB	3:H:540:ILE:HG21	1.95	0.47
2:G:533:ASP:HA	3:H:260:ARG:CZ	2.44	0.47
3:H:39:THR:HG21	3:H:95:GLU:HB2	1.95	0.47
3:H:111:LEU:HD13	3:H:150:ILE:HD13	1.96	0.47
7:E:27:DC:H2'	7:E:28:DT:H6	1.78	0.47
1:A:360:SER:HA	1:A:363:ILE:HG12	1.96	0.47
1:A:378:ALA:O	1:A:381:VAL:HG22	2.14	0.47
1:A:565:TYR:HA	1:A:568:PHE:HD2	1.80	0.47
1:A:1066:LEU:O	1:A:1074:LYS:HB3	2.15	0.47
1:A:1244:LEU:HD11	1:A:1248:PHE:HA	1.96	0.47
1:A:1344:PHE:O	1:A:1347:THR:OG1	2.21	0.47
1:A:2803:ILE:H	1:A:2803:ILE:HD12	1.79	0.47
1:A:2804:ILE:O	1:A:2808:LEU:HG	2.14	0.47
1:A:2930:TYR:O	1:A:2934:GLY:N	2.44	0.47
1:A:3008:TRP:HB2	1:A:3051:LEU:HG	1.97	0.47
1:A:3820:MET:O	1:A:3822:GLN:N	2.46	0.47
2:B:297:LYS:NZ	3:C:294:VAL:HG23	2.27	0.47
2:B:301:ARG:HH21	2:B:310:LEU:HD11	1.79	0.47
2:B:413:LEU:HD21	2:B:432:PHE:HD1	1.79	0.47
3:C:131:HIS:CE1	3:C:239:LYS:HE3	2.49	0.47
3:C:168:SER:OG	3:C:226:SER:N	2.39	0.47
1:F:560:LEU:HA	1:F:563:LEU:HB2	1.96	0.47
1:F:649:PHE:CE2	1:F:673:THR:HG21	2.48	0.47
1:F:871:LEU:O	1:F:873:VAL:HG22	2.14	0.47
1:F:1337:VAL:O	1:F:1341:ILE:HG12	2.14	0.47
1:F:1367:HIS:CE1	1:F:1371:VAL:HG21	2.48	0.47
1:F:1837:ARG:NE	1:F:1888:ASP:OD2	2.46	0.47
1:F:2100:LEU:O	1:F:2104:MET:HG2	2.13	0.47
1:F:2412:TYR:HE2	1:F:2450:GLU:OE1	1.97	0.47
1:F:2527:HIS:HB3	1:F:2530:ARG:NH1	2.28	0.47
1:F:3139:GLN:HA	1:F:3142:ILE:HD12	1.95	0.47
1:F:3170:ASP:OD2	1:F:3173:MET:HG2	2.14	0.47
1:F:3652:LEU:HD12	1:F:3655:LYS:HZ3	1.79	0.47
1:F:3701:ILE:HG13	1:F:3719:ILE:HG13	1.96	0.47
1:F:3759:ARG:HG3	1:F:3760:GLN:H	1.78	0.47
1:F:3924:HIS:CD2	1:F:3926:ASN:HB2	2.49	0.47
1:F:4074:PHE:O	1:F:4078:VAL:HG23	2.13	0.47
2:G:410:PHE:HB2	2:G:439:PHE:HE1	1.79	0.47
2:G:416:GLN:CD	3:H:354:ARG:HH22	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:TYR:O	1:A:343:GLU:HG3	2.14	0.47
1:A:472:GLY:N	1:A:473:PRO:HD2	2.29	0.47
1:A:911:LEU:O	1:A:915:THR:HG23	2.15	0.47
1:A:1055:ASN:HD21	1:A:1057:LYS:HE2	1.80	0.47
1:A:1651:LYS:O	1:A:1654:GLN:N	2.47	0.47
1:A:3027:LEU:O	1:A:3064:PHE:HD1	1.97	0.47
1:A:3031:TRP:C	1:A:3034:PRO:HD2	2.35	0.47
1:A:3072:GLU:CG	1:A:3073:LEU:H	2.20	0.47
1:A:3572:ILE:HA	1:A:3575:LEU:HD12	1.96	0.47
1:A:3586:LYS:NZ	1:A:3671:ASN:HB3	2.29	0.47
1:A:3971:MET:HG2	1:A:3976:GLU:HA	1.96	0.47
3:C:450:GLN:O	3:C:454:VAL:HG23	2.14	0.47
3:C:605:LYS:HB3	3:C:609:PHE:CD2	2.49	0.47
1:F:292:SER:O	1:F:296:VAL:HG22	2.14	0.47
1:F:337:LYS:O	1:F:341:PHE:N	2.44	0.47
1:F:678:LYS:HE2	1:F:678:LYS:HA	1.96	0.47
1:F:855:VAL:O	1:F:859:LEU:HG	2.14	0.47
1:F:866:ILE:O	1:F:869:ASN:ND2	2.37	0.47
1:F:913:ARG:CZ	1:F:2803:ILE:HG21	2.44	0.47
1:F:1081:ALA:O	1:F:1085:ILE:HG12	2.14	0.47
1:F:1103:ALA:O	1:F:1106:ILE:HG22	2.15	0.47
1:F:1326:GLU:HG3	1:F:1329:ARG:NH2	2.28	0.47
1:F:1529:VAL:CG1	1:F:1581:GLU:HB2	2.44	0.47
1:F:1791:CYS:HB2	1:F:1835:ALA:HB2	1.97	0.47
1:F:2492:ASP:O	1:F:2496:GLN:NE2	2.47	0.47
1:F:2942:ILE:O	1:F:2946:GLU:N	2.31	0.47
1:F:2976:LEU:O	1:F:2979:GLN:NE2	2.48	0.47
1:F:3164:TRP:HB3	1:F:3186:ARG:NH2	2.25	0.47
1:F:3176:MET:HA	1:F:3179:TRP:HD1	1.76	0.47
1:F:3455:LYS:HA	1:F:3491:PRO:HD3	1.96	0.47
1:F:3772:ASN:OD1	1:F:3788:LEU:HB3	2.14	0.47
1:F:3929:MET:N	1:F:3929:MET:SD	2.87	0.47
1:F:4014:LYS:O	1:F:4018:GLN:HG2	2.14	0.47
2:G:273:ILE:HA	2:G:368:VAL:HA	1.97	0.47
2:G:350:PHE:CD2	3:H:458:ILE:HA	2.49	0.47
2:G:350:PHE:HD2	3:H:458:ILE:HA	1.79	0.47
3:H:481:LYS:O	3:H:481:LYS:HD3	2.14	0.47
3:H:647:ILE:HG12	3:H:652:GLU:HA	1.95	0.47
1:A:374:LYS:HZ1	1:A:424:LEU:HA	1.79	0.47
1:A:396:PHE:CZ	1:A:406:ARG:HB2	2.49	0.47
1:A:573:LEU:O	1:A:576:VAL:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1020:PRO:HA	1:A:1073:PHE:CD1	2.49	0.47
1:A:1425:ALA:HB2	1:A:1467:ILE:HG13	1.95	0.47
1:A:1886:LYS:HE3	1:A:1955:VAL:HG23	1.94	0.47
1:A:2471:GLU:HA	1:A:2474:TYR:CD2	2.49	0.47
1:A:3090:TYR:HB3	1:A:3099:ALA:HB2	1.96	0.47
1:A:3538:GLU:OE1	1:A:3538:GLU:N	2.48	0.47
2:B:289:TYR:HB3	2:B:293:ASN:H	1.79	0.47
1:F:849:GLU:O	1:F:853:ILE:HG13	2.14	0.47
1:F:1840:PHE:O	1:F:1844:VAL:HG23	2.15	0.47
1:F:2358:ASP:OD1	1:F:2358:ASP:N	2.48	0.47
1:F:2874:ALA:HA	1:F:2925:GLU:OE1	2.14	0.47
1:F:3301:LEU:O	1:F:3305:SER:N	2.47	0.47
1:F:3494:GLN:HB3	1:F:3709:GLY:HA2	1.95	0.47
1:F:3584:LEU:O	1:F:3612:ARG:NH1	2.46	0.47
1:F:4104:VAL:O	1:F:4107:LEU:HB2	2.14	0.47
2:G:322:TYR:HE2	3:H:494:LEU:HD21	1.79	0.47
3:H:509:GLN:NE2	3:H:511:HIS:HB2	2.29	0.47
1:A:61:ARG:HH11	1:A:62:ASP:CG	2.18	0.47
1:A:295:GLU:HA	1:A:298:LEU:HB3	1.95	0.47
1:A:568:PHE:O	1:A:571:SER:N	2.47	0.47
1:A:2159:PRO:HG2	1:A:2160:TYR:CD1	2.49	0.47
1:A:2587:GLN:O	1:A:2776:ARG:HG3	2.14	0.47
1:A:3036:TYR:HB3	1:A:3040:TYR:CE2	2.48	0.47
3:C:163:PHE:CE1	3:C:212:MET:HG2	2.49	0.47
3:C:271:ARG:HH21	3:C:273:LYS:HA	1.79	0.47
1:F:289:ASN:O	1:F:293:LEU:HG	2.14	0.47
1:F:327:VAL:HA	1:F:330:ASN:HB3	1.96	0.47
1:F:1711:ARG:HA	1:F:1714:LEU:HD12	1.95	0.47
1:F:1837:ARG:O	1:F:1841:SER:N	2.37	0.47
1:F:2211:LEU:HB3	1:F:2214:ARG:HH21	1.79	0.47
1:F:2588:GLU:CD	1:F:2776:ARG:HH22	2.18	0.47
1:F:2831:ASN:O	1:F:2835:LYS:HG2	2.14	0.47
1:F:3103:ILE:O	1:F:3107:ILE:HD12	2.12	0.47
1:F:3486:GLU:C	1:F:3488:SER:H	2.17	0.47
1:F:3751:LEU:HD22	1:F:3803:ILE:HD11	1.95	0.47
3:H:42:VAL:HG13	3:H:91:LEU:HD22	1.96	0.47
3:H:355:PHE:HD2	3:H:425:PRO:HG2	1.78	0.47
3:H:624:LEU:HD11	3:H:669:LYS:HE3	1.97	0.47
4:J:30:DT:H2'	4:J:31:DT:C4	2.50	0.47
4:J:38:DG:N2	5:I:19:DC:O4'	2.47	0.47
6:D:32:DT:O2	7:E:25:DA:C2	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:GLN:HA	1:A:207:GLN:NE2	2.30	0.47
1:A:288:ASP:N	1:A:288:ASP:OD1	2.46	0.47
1:A:642:PHE:HE1	1:A:649:PHE:CE2	2.32	0.47
1:A:887:ASP:CG	1:A:3889:ARG:HH21	2.17	0.47
1:A:1024:THR:HA	1:A:1027:ASP:HB2	1.96	0.47
1:A:1416:GLU:O	1:A:1419:LEU:HB3	2.15	0.47
1:A:2122:LEU:HA	1:A:2126:MET:CE	2.42	0.47
1:A:2350:LYS:HA	1:A:2360:PHE:CZ	2.50	0.47
1:A:2958:LEU:O	1:A:2962:ARG:N	2.36	0.47
1:A:3249:GLN:HE22	1:A:3780:ALA:HA	1.79	0.47
1:A:3677:PRO:HG3	1:A:3736:LYS:HE3	1.96	0.47
1:A:3838:GLU:HB3	1:A:3874:ARG:HD2	1.95	0.47
1:A:3849:LYS:HD2	1:A:3851:ASP:HB2	1.97	0.47
1:A:4007:LYS:HD3	1:A:4044:ILE:HG21	1.96	0.47
2:B:90:THR:H	2:B:101:ASN:HD22	1.62	0.47
2:B:262:LYS:HG3	2:B:345:LEU:O	2.15	0.47
2:B:412:ALA:N	2:B:435:VAL:O	2.47	0.47
1:F:242:PRO:HB3	1:F:246:ARG:NH2	2.28	0.47
1:F:428:PRO:HB2	1:F:430:VAL:HG12	1.95	0.47
1:F:655:LEU:HD21	1:F:659:ARG:HH21	1.78	0.47
1:F:753:GLN:H	1:F:753:GLN:CD	2.17	0.47
1:F:886:TRP:CE2	1:F:964:ARG:HD2	2.50	0.47
1:F:1049:GLN:O	1:F:1055:ASN:ND2	2.47	0.47
1:F:1064:TYR:CE1	1:F:1106:ILE:HG21	2.50	0.47
1:F:1482:GLU:OE1	1:F:1482:GLU:N	2.36	0.47
1:F:1978:PHE:O	1:F:1979:GLU:HG3	2.15	0.47
1:F:2392:VAL:O	1:F:2396:LEU:HG	2.15	0.47
1:F:2548:PRO:HB2	1:F:2847:THR:HA	1.96	0.47
1:F:2572:TYR:CZ	1:F:2788:SER:HA	2.49	0.47
3:H:605:LYS:HB3	3:H:609:PHE:HZ	1.79	0.47
3:H:623:PHE:CE1	3:H:627:ASN:HA	2.49	0.47
5:I:38:DT:H2”	5:I:39:DA:N7	2.28	0.47
1:A:479:ILE:O	1:A:483:VAL:HG12	2.14	0.47
1:A:493:LYS:HG3	1:A:494:PRO:HD2	1.97	0.47
1:A:531:PHE:CE2	1:A:633:ILE:HD13	2.49	0.47
1:A:697:ASP:HB2	1:A:700:LYS:HZ3	1.79	0.47
1:A:921:ALA:H	1:A:927:LYS:HZ2	1.62	0.47
1:A:966:PHE:HA	1:A:969:LEU:HB3	1.96	0.47
1:A:1013:ILE:O	1:A:1017:ILE:HG12	2.15	0.47
1:A:1034:ARG:HG3	1:A:1088:GLU:HG2	1.96	0.47
1:A:1136:ARG:HG3	1:A:1140:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1212:LEU:HA	1:A:1219:PHE:CG	2.50	0.47
1:A:1235:ILE:HG13	1:A:1259:LEU:HB3	1.96	0.47
1:A:1371:VAL:O	1:A:1375:THR:HG23	2.13	0.47
1:A:1748:ASP:OD1	1:A:1749:ALA:N	2.47	0.47
1:A:1802:TYR:CD2	1:A:1806:ARG:NH1	2.82	0.47
1:A:2092:GLU:CD	1:A:2092:GLU:H	2.16	0.47
1:A:2420:PHE:HZ	1:A:2435:CYS:HB3	1.80	0.47
1:A:3002:TYR:HB3	1:A:3011:LEU:CD1	2.45	0.47
1:A:3075:LYS:HA	1:A:3078:LEU:HB2	1.96	0.47
1:A:3160:LEU:HG	1:A:3164:TRP:CZ3	2.50	0.47
1:A:3294:SER:O	1:A:3298:LEU:HG	2.15	0.47
1:A:3729:MET:SD	1:A:3735:PRO:HG2	2.55	0.47
1:A:3736:LYS:O	1:A:3751:LEU:HA	2.14	0.47
1:A:3768:PHE:HD2	1:A:3790:THR:HG21	1.78	0.47
1:A:4013:TRP:HB2	1:A:4038:TRP:CG	2.49	0.47
1:A:4089:ILE:HA	1:A:4092:GLN:HE22	1.78	0.47
1:A:4089:ILE:HD13	1:A:4092:GLN:HE22	1.79	0.47
2:B:317:LYS:NZ	2:B:328:ILE:O	2.47	0.47
3:C:56:LEU:HD23	3:C:80:HIS:HB3	1.97	0.47
3:C:616:LEU:HD13	3:C:619:HIS:CE1	2.49	0.47
1:F:111:CYS:O	1:F:115:TYR:HB2	2.15	0.47
1:F:483:VAL:HG21	1:F:567:GLU:HB2	1.97	0.47
1:F:540:MET:O	1:F:544:ILE:HG12	2.14	0.47
1:F:744:ASP:OD1	1:F:747:ALA:N	2.47	0.47
1:F:1374:GLN:HG3	1:F:1422:LYS:HE2	1.96	0.47
1:F:1565:GLU:OE1	1:F:1565:GLU:N	2.38	0.47
1:F:1614:GLN:O	1:F:1618:LEU:HD23	2.14	0.47
1:F:1850:VAL:HG22	1:F:1870:LYS:HG2	1.95	0.47
1:F:2216:LEU:HA	1:F:2219:LEU:HD12	1.96	0.47
1:F:2230:VAL:HA	1:F:2233:HIS:HB2	1.97	0.47
1:F:2243:GLU:OE1	1:F:2283:ASN:ND2	2.48	0.47
1:F:2376:ASP:N	1:F:2376:ASP:OD1	2.48	0.47
1:F:2494:ASP:HA	1:F:2497:GLU:OE2	2.13	0.47
1:F:2928:LYS:HA	1:F:2931:ARG:HG2	1.96	0.47
1:F:2938:VAL:O	1:F:2942:ILE:HG12	2.14	0.47
1:F:3081:HIS:HB2	1:F:3082:TYR:CZ	2.49	0.47
1:F:3954:PRO:HD3	1:F:4027:TRP:HZ3	1.80	0.47
1:F:4055:ASN:HB3	1:F:4058:VAL:HG23	1.96	0.47
1:F:4099:SER:O	1:F:4103:GLN:HG3	2.14	0.47
5:I:30:DA:C6	5:I:31:DA:N6	2.82	0.47
1:A:14:ARG:O	1:A:18:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:MET:HA	1:A:413:PHE:HD2	1.78	0.47
1:A:750:PRO:O	1:A:754:MET:HG2	2.14	0.47
1:A:3772:ASN:O	1:A:3775:LEU:HB3	2.14	0.47
1:A:3775:LEU:HD21	1:A:3786:LEU:O	2.15	0.47
1:A:3789:ARG:HH22	1:A:3791:TYR:N	2.13	0.47
1:A:3913:ILE:HB	1:A:3984:MET:SD	2.55	0.47
1:A:4045:CYS:O	1:A:4049:ARG:HG2	2.15	0.47
2:B:85:VAL:HG22	2:B:106:GLN:HG3	1.97	0.47
2:B:350:PHE:CE2	3:C:458:ILE:HA	2.49	0.47
3:C:496:HIS:CE1	3:C:507:PRO:HD3	2.50	0.47
3:C:651:GLU:HB3	3:C:654:ARG:HG2	1.97	0.47
3:C:666:VAL:HG23	3:C:675:TRP:HD1	1.79	0.47
1:F:87:LYS:O	1:F:91:ILE:HG12	2.15	0.47
1:F:797:ASP:N	1:F:797:ASP:OD1	2.46	0.47
1:F:1515:LEU:HD12	1:F:1519:PHE:HE2	1.79	0.47
1:F:1772:HIS:CD2	1:F:1773:VAL:HG13	2.50	0.47
1:F:2299:TYR:O	1:F:2303:LEU:HG	2.15	0.47
1:F:3100:LYS:HA	1:F:3103:ILE:HD12	1.96	0.47
1:F:3123:GLN:O	1:F:3126:LEU:HB2	2.14	0.47
1:F:3465:PHE:HE2	1:F:3501:HIS:CB	2.28	0.47
1:F:3965:ARG:HG3	1:F:3969:ASN:OD1	2.15	0.47
1:A:175:TYR:HB3	1:A:227:LEU:CD1	2.41	0.47
1:A:243:GLN:CG	1:A:246:ARG:HH21	2.27	0.47
1:A:410:MET:HA	1:A:413:PHE:CD2	2.50	0.47
1:A:485:GLN:O	1:A:489:ARG:HG2	2.15	0.47
1:A:522:PRO:O	1:A:523:THR:OG1	2.31	0.47
1:A:710:PHE:HA	1:A:713:GLU:OE2	2.15	0.47
1:A:712:LYS:HE2	1:A:712:LYS:HA	1.97	0.47
1:A:785:MET:CB	1:A:789:TYR:HE1	2.27	0.47
1:A:1257:LEU:HD13	1:A:1333:SER:HB2	1.97	0.47
1:A:3001:CYS:HA	1:A:3004:HIS:HB2	1.96	0.47
1:A:3588:TRP:O	1:A:3592:VAL:HG23	2.15	0.47
1:A:3810:VAL:H	1:A:3930:VAL:H	1.61	0.47
1:A:3932:MET:SD	1:A:3932:MET:N	2.88	0.47
2:B:48:MET:HA	2:B:59:PRO:HG2	1.96	0.47
2:B:161:MET:CE	2:B:164:LYS:HB3	2.45	0.47
3:C:74:TYR:CD1	3:C:113:VAL:HG22	2.50	0.47
3:C:626:THR:HG23	3:C:632:PHE:CD2	2.50	0.47
1:F:105:VAL:HA	1:F:108:LYS:HZ3	1.80	0.47
1:F:249:PHE:O	1:F:252:VAL:HB	2.15	0.47
1:F:564:LEU:O	1:F:568:PHE:HD2	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:790:LYS:HA	1:F:869:ASN:HB3	1.95	0.47
1:F:925:GLN:HB2	1:F:2800:ARG:NH1	2.30	0.47
1:F:1582:LEU:HD12	1:F:1593:VAL:HG12	1.96	0.47
1:F:1732:GLY:HA2	1:F:1737:ASN:HD21	1.80	0.47
1:F:1848:ILE:HD13	1:F:1899:VAL:HG12	1.96	0.47
1:F:1922:ALA:HB1	1:F:1940:TYR:HE2	1.79	0.47
1:F:2402:LEU:HD12	1:F:2438:ILE:HG13	1.96	0.47
1:F:3759:ARG:NH2	1:F:4015:ASN:HB3	2.30	0.47
2:G:306:SER:N	3:H:288:ASP:OD1	2.48	0.47
3:H:234:LEU:HD11	3:H:483:PRO:HG3	1.97	0.47
1:A:193:ALA:HB1	1:A:197:PHE:CZ	2.50	0.47
1:A:331:ALA:O	1:A:335:LYS:N	2.48	0.47
1:A:456:VAL:HA	1:A:459:ARG:HG3	1.97	0.47
1:A:1089:PHE:CE2	1:A:1096:VAL:HG12	2.50	0.47
1:A:1090:ARG:HA	1:A:1137:ILE:HD11	1.96	0.47
1:A:1329:ARG:HA	1:A:1329:ARG:NE	2.30	0.47
1:A:1364:CYS:HA	1:A:1368:LEU:HD23	1.95	0.47
1:A:1890:HIS:O	1:A:1895:LYS:HB2	2.16	0.47
1:A:2092:GLU:OE1	1:A:2092:GLU:N	2.47	0.47
1:A:2102:LYS:O	1:A:2106:ARG:HG2	2.15	0.47
1:A:2300:PHE:O	1:A:2303:LEU:HB2	2.15	0.47
1:A:2530:ARG:HG3	1:A:2531:LEU:CD1	2.45	0.47
1:A:3693:GLU:OE2	1:A:3696:ARG:HD3	2.15	0.47
1:A:3737:ARG:CA	1:A:3751:LEU:HD13	2.45	0.47
1:A:3945:ALA:O	1:A:3947:GLY:N	2.48	0.47
1:A:3987:ALA:HB1	1:A:3991:PHE:CZ	2.50	0.47
1:A:4021:LEU:HD12	1:A:4022:LYS:N	2.30	0.47
2:B:238:LYS:O	2:B:242:LEU:HG	2.14	0.47
2:B:385:LEU:HD12	2:B:388:LYS:HB3	1.96	0.47
3:C:130:ARG:HB3	3:C:159:ILE:HG23	1.97	0.47
3:C:293:THR:HG22	3:C:295:TYR:HE1	1.79	0.47
3:C:413:LYS:HG2	3:C:414:HIS:N	2.30	0.47
1:F:763:THR:N	1:F:764:PRO:HD2	2.30	0.47
1:F:1104:LEU:O	1:F:1108:MET:HG2	2.15	0.47
1:F:1307:ILE:HG21	1:F:1311:LYS:HZ1	1.80	0.47
1:F:1558:TYR:CE2	1:F:1562:LEU:HD11	2.50	0.47
1:F:2157:PHE:O	1:F:2160:TYR:N	2.47	0.47
1:F:2406:GLU:OE1	1:F:2406:GLU:N	2.43	0.47
1:F:2578:GLU:C	1:F:2784:GLN:HE22	2.17	0.47
1:F:2803:ILE:H	1:F:2803:ILE:HD12	1.80	0.47
1:F:2889:GLY:O	1:F:2892:LEU:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3153:SER:O	1:F:3156:PRO:HD2	2.15	0.47
3:H:56:LEU:HD23	3:H:81:ARG:HB2	1.97	0.47
3:H:271:ARG:H	3:H:273:LYS:NZ	2.13	0.47
3:H:675:TRP:HA	3:H:678:VAL:HB	1.97	0.47
1:A:81:CYS:HA	1:A:84:GLU:OE2	2.15	0.46
1:A:81:CYS:O	1:A:85:ILE:HG12	2.16	0.46
1:A:101:ALA:O	1:A:104:SER:N	2.48	0.46
1:A:279:ALA:O	1:A:322:GLN:NE2	2.48	0.46
1:A:345:PHE:O	1:A:349:ILE:HG22	2.15	0.46
1:A:1107:TYR:CZ	1:A:1130:ALA:HB3	2.50	0.46
1:A:1142:HIS:CE1	1:A:1146:ASN:HD21	2.33	0.46
1:A:1311:LYS:HZ3	1:A:1313:PHE:HZ	1.63	0.46
1:A:1837:ARG:O	1:A:1840:PHE:HB3	2.15	0.46
1:A:1871:MET:HE1	1:A:1936:ARG:O	2.15	0.46
1:A:2196:TRP:HB2	1:A:2199:LEU:HB2	1.97	0.46
1:A:2273:GLY:O	1:A:2276:LEU:HB3	2.15	0.46
1:A:2776:ARG:HH21	1:A:2782:ASP:CG	2.18	0.46
1:A:3001:CYS:O	1:A:3005:LEU:N	2.48	0.46
1:A:4013:TRP:HB2	1:A:4038:TRP:CD2	2.50	0.46
3:C:335:SER:OG	3:C:398:ASP:O	2.29	0.46
1:F:216:LYS:HB3	1:F:219:VAL:HB	1.97	0.46
1:F:266:ALA:HB2	1:F:305:ASN:HD21	1.80	0.46
1:F:338:LEU:O	1:F:341:PHE:HB3	2.15	0.46
1:F:575:ILE:O	1:F:579:LEU:HD23	2.15	0.46
1:F:656:GLN:HA	1:F:659:ARG:HD2	1.98	0.46
1:F:1071:ASN:HD22	1:F:1074:LYS:NZ	2.12	0.46
1:F:1141:LYS:O	1:F:1141:LYS:HG3	2.14	0.46
1:F:1395:LEU:N	1:F:1396:PRO:HD3	2.30	0.46
1:F:1406:LEU:HD13	1:F:1415:LEU:HD21	1.96	0.46
1:F:2253:TYR:HE2	1:F:2289:ASP:H	1.62	0.46
1:F:2295:GLN:HG3	1:F:2297:SER:OG	2.14	0.46
1:F:2474:TYR:O	1:F:2478:MET:HG3	2.14	0.46
1:F:3749:PRO:O	1:F:3805:TRP:HB3	2.15	0.46
1:F:3771:MET:O	1:F:3775:LEU:HG	2.15	0.46
3:H:68:LEU:HD22	3:H:116:ASP:OD2	2.15	0.46
3:H:232:ARG:HH12	3:H:519:PRO:HD3	1.80	0.46
3:H:726:ASP:HA	3:H:729:LEU:HD12	1.97	0.46
1:A:254:LYS:O	1:A:258:PRO:HD3	2.15	0.46
1:A:465:PHE:CE1	1:A:482:VAL:HG21	2.50	0.46
1:A:740:ILE:HG13	1:A:741:ILE:N	2.30	0.46
1:A:785:MET:HB3	1:A:789:TYR:HE1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:849:GLU:O	1:A:853:ILE:N	2.39	0.46
1:A:1653:LEU:HG	1:A:1698:PHE:HD2	1.80	0.46
1:A:2894:GLU:O	1:A:2898:LEU:HG	2.15	0.46
1:A:3190:LEU:O	1:A:3193:ILE:HG12	2.15	0.46
1:A:3559:LYS:HG2	1:A:3564:GLN:OE1	2.16	0.46
1:A:3667:LEU:O	1:A:3671:ASN:ND2	2.48	0.46
1:A:4047:ALA:HA	1:A:4050:LYS:HG2	1.96	0.46
1:F:13:LEU:O	1:F:16:GLN:HG3	2.16	0.46
1:F:449:TYR:HB3	1:F:453:MET:SD	2.55	0.46
1:F:915:THR:O	1:F:919:LEU:HG	2.15	0.46
1:F:1404:LYS:CA	1:F:1407:LYS:HZ3	2.26	0.46
1:F:2924:VAL:O	1:F:2928:LYS:HG2	2.15	0.46
1:F:3121:LEU:HB3	1:F:3124:SER:OG	2.15	0.46
1:F:3379:GLN:O	1:F:3382:PHE:HB3	2.15	0.46
1:F:3668:LEU:O	1:F:3672:LYS:NZ	2.41	0.46
2:G:130:ARG:NH2	2:G:133:ASP:OD2	2.47	0.46
3:H:23:SER:HB3	3:H:29:SER:HA	1.98	0.46
6:D:16:DA:C6	7:E:42:DA:N1	2.83	0.46
1:A:43:VAL:HG13	1:A:823:GLN:O	2.16	0.46
1:A:329:LYS:HG2	1:A:329:LYS:O	2.14	0.46
1:A:341:PHE:O	1:A:345:PHE:HB2	2.15	0.46
1:A:741:ILE:HD13	1:A:776:TRP:CZ2	2.50	0.46
1:A:817:ALA:HA	1:A:820:ARG:HE	1.79	0.46
1:A:1708:GLU:H	1:A:1708:GLU:CD	2.14	0.46
1:A:2105:HIS:CD2	1:A:2156:VAL:HG13	2.50	0.46
1:A:2414:GLN:HA	2:B:148:TRP:HZ2	1.81	0.46
1:A:2546:TYR:HA	1:A:2554:PHE:HZ	1.81	0.46
1:A:3263:HIS:O	1:A:3267:LYS:HG3	2.15	0.46
1:A:3310:ASN:ND2	1:A:3311:ASN:O	2.48	0.46
1:A:3467:ARG:HA	1:A:3470:GLN:NE2	2.31	0.46
2:B:325:ARG:NH2	2:B:326:GLN:O	2.48	0.46
2:B:365:SER:HB2	2:B:435:VAL:HA	1.96	0.46
3:C:164:PHE:HD1	3:C:225:TYR:H	1.62	0.46
3:C:643:ARG:HB2	3:C:655:PHE:CE1	2.50	0.46
3:C:651:GLU:HA	3:C:653:GLN:NE2	2.31	0.46
1:F:48:PRO:HB2	1:F:840:LEU:HD11	1.97	0.46
1:F:1539:SER:HA	1:F:1551:ILE:O	2.15	0.46
1:F:1646:LEU:HD13	1:F:1649:LEU:HD12	1.96	0.46
1:F:1881:TYR:HB2	1:F:1950:SER:CB	2.45	0.46
1:F:1900:PHE:HB2	1:F:1905:ILE:HG22	1.97	0.46
1:F:2182:ILE:HD12	1:F:2182:ILE:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2379:MET:O	1:F:2382:VAL:HG12	2.14	0.46
1:F:2389:PHE:H	1:F:2394:LYS:HZ3	1.63	0.46
1:F:3554:PHE:HD1	1:F:3557:ARG:NE	2.13	0.46
1:F:3556:ALA:HA	1:F:3559:LYS:NZ	2.29	0.46
1:F:3848:GLY:HA3	1:F:3858:MET:SD	2.55	0.46
2:G:410:PHE:CE2	3:H:482:ILE:HG13	2.49	0.46
3:H:659:LEU:HB3	3:H:688:LYS:NZ	2.31	0.46
1:A:119:ARG:O	1:A:123:CYS:N	2.48	0.46
1:A:789:TYR:CD2	1:A:866:ILE:HG21	2.51	0.46
1:A:965:THR:O	1:A:969:LEU:N	2.45	0.46
1:A:1050:GLU:OE2	1:A:1051:LYS:NZ	2.43	0.46
1:A:1676:ILE:HG12	1:A:1710:LEU:HD21	1.97	0.46
1:A:1931:ASN:CB	1:A:1937:ARG:HH21	2.28	0.46
1:A:2877:SER:HB2	1:A:2928:LYS:CE	2.43	0.46
1:A:2884:LEU:HA	1:A:2886:GLN:HE22	1.79	0.46
2:B:412:ALA:O	2:B:434:LEU:HD12	2.14	0.46
3:C:18:PHE:N	3:C:101:GLY:O	2.47	0.46
3:C:558:HIS:HD2	3:C:559:GLU:HG3	1.81	0.46
1:F:71:LYS:HG2	1:F:78:PHE:CE2	2.50	0.46
1:F:753:GLN:OE1	1:F:792:ILE:HG13	2.16	0.46
1:F:1225:GLU:OE2	1:F:1235:ILE:N	2.48	0.46
1:F:1776:GLU:HG2	1:F:1777:LEU:HD22	1.97	0.46
1:F:2466:SER:OG	1:F:2469:CYS:SG	2.43	0.46
1:F:2534:ASN:HB3	1:F:2537:ASP:CB	2.46	0.46
1:F:3288:SER:OG	1:F:3992:ARG:NH2	2.49	0.46
1:F:3315:TYR:HD1	1:F:3318:LYS:HB2	1.80	0.46
1:F:3603:LYS:HG2	1:F:3610:TYR:OH	2.15	0.46
1:F:3650:LYS:HZ1	1:F:3653:ARG:HD3	1.80	0.46
1:F:3750:PHE:HA	1:F:3805:TRP:N	2.25	0.46
3:H:623:PHE:CE1	3:H:632:PHE:HB3	2.50	0.46
1:A:75:SER:HB3	1:A:78:PHE:HB2	1.98	0.46
1:A:623:PHE:O	1:A:627:VAL:HG23	2.15	0.46
1:A:1301:ILE:HG22	1:A:1302:ALA:H	1.79	0.46
1:A:1361:LYS:HA	1:A:1364:CYS:SG	2.56	0.46
1:A:1973:LYS:HB2	1:A:2142:ILE:HD11	1.96	0.46
1:A:2213:ASN:O	1:A:2216:LEU:HB2	2.15	0.46
1:A:2840:PHE:HA	1:A:2843:PHE:CD2	2.50	0.46
1:A:3097:ASP:N	1:A:3097:ASP:OD1	2.44	0.46
1:A:3574:ALA:HB2	1:A:3686:TRP:CE3	2.50	0.46
1:A:3603:LYS:HD3	1:A:3654:MET:O	2.16	0.46
1:A:3913:ILE:HG12	1:A:3917:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:499:GLU:OE1	2:B:502:GLN:HB2	2.15	0.46
3:C:354:ARG:HG3	3:C:354:ARG:HH11	1.79	0.46
1:F:1613:HIS:HA	1:F:1616:LEU:HB2	1.96	0.46
1:F:1733:THR:HB	1:F:1735:ARG:NH1	2.31	0.46
1:F:2136:PRO:O	1:F:2143:ARG:NH1	2.48	0.46
1:F:2158:ARG:NH2	1:F:2196:TRP:HB3	2.30	0.46
1:F:2176:ASN:ND2	1:F:2179:GLY:O	2.44	0.46
1:F:2333:ARG:CZ	1:F:2333:ARG:HA	2.46	0.46
1:F:3962:ARG:HG3	1:F:3967:PHE:CE2	2.51	0.46
2:G:34:GLY:HA3	2:G:162:SER:HB3	1.98	0.46
2:G:119:LEU:HA	2:G:122:PHE:CE2	2.51	0.46
2:G:271:VAL:HG13	2:G:370:PRO:HA	1.85	0.46
1:A:111:CYS:SG	1:A:133:LYS:NZ	2.86	0.46
1:A:278:HIS:O	1:A:281:GLN:NE2	2.41	0.46
1:A:389:ILE:HG21	1:A:431:TYR:CD2	2.51	0.46
1:A:713:GLU:HG2	1:A:714:VAL:N	2.30	0.46
1:A:797:ASP:O	1:A:801:LYS:HG2	2.16	0.46
1:A:1746:PHE:O	1:A:1750:LEU:HG	2.15	0.46
1:A:1782:PHE:HA	1:A:1785:ILE:HG22	1.97	0.46
1:A:1862:THR:O	1:A:1866:GLN:HG2	2.15	0.46
1:A:1973:LYS:HD2	1:A:1976:LEU:HB3	1.98	0.46
1:A:2220:MET:C	1:A:2259:LYS:HZ2	2.14	0.46
1:A:2486:ASP:OD1	1:A:2486:ASP:N	2.49	0.46
1:A:3054:GLN:OE1	1:A:3054:GLN:N	2.48	0.46
2:B:59:PRO:HA	2:B:62:MET:CG	2.46	0.46
2:B:392:LYS:HZ2	3:C:458:ILE:HG21	1.81	0.46
2:B:474:ARG:NH2	2:B:476:ASP:OD2	2.49	0.46
3:C:9:ALA:HB2	3:C:127:PHE:CG	2.51	0.46
3:C:40:MET:O	3:C:43:GLN:HG2	2.16	0.46
1:F:1626:TRP:HE1	1:F:1627:LYS:NZ	2.12	0.46
1:F:1709:GLU:O	1:F:1713:VAL:HG13	2.15	0.46
1:F:1726:SER:HB2	1:F:1772:HIS:O	2.14	0.46
1:F:2231:PHE:HA	1:F:2234:ASN:ND2	2.29	0.46
1:F:2512:ASP:O	1:F:2518:GLN:NE2	2.42	0.46
1:F:3174:ASP:HB3	1:F:3179:TRP:NE1	2.31	0.46
1:F:3278:GLN:HG2	1:F:3279:SER:N	2.31	0.46
1:F:3809:THR:HG21	1:F:3929:MET:HG3	1.98	0.46
2:G:61:ASP:O	2:G:64:ILE:N	2.48	0.46
2:G:126:GLN:O	2:G:130:ARG:HG2	2.16	0.46
2:G:484:GLN:O	2:G:488:ARG:NH1	2.49	0.46
1:A:196:LEU:HB3	1:A:200:PHE:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:887:ASP:HB3	1:A:958:MET:CE	2.46	0.46
1:A:944:LYS:O	1:A:944:LYS:NZ	2.31	0.46
1:A:1138:ILE:HG23	1:A:1145:LEU:HD22	1.97	0.46
1:A:1403:MET:O	1:A:1407:LYS:N	2.49	0.46
1:A:1884:LEU:HD11	1:A:1888:ASP:OD2	2.15	0.46
1:A:1905:ILE:HD12	1:A:1911:LEU:HD22	1.97	0.46
1:A:2263:LYS:HZ1	1:A:2265:PRO:HA	1.81	0.46
1:A:2322:VAL:HA	1:A:2325:LEU:HD12	1.97	0.46
1:A:2415:LEU:HD22	1:A:2420:PHE:CD1	2.50	0.46
1:A:2430:GLU:N	1:A:2430:GLU:OE1	2.48	0.46
1:A:3469:LEU:CD1	1:A:3501:HIS:HB3	2.45	0.46
1:A:3496:ILE:HD13	1:A:3709:GLY:H	1.81	0.46
3:C:31:PHE:CZ	3:C:98:ILE:HG22	2.50	0.46
3:C:250:ARG:HD3	3:C:258:SER:HB2	1.98	0.46
3:C:324:SER:OG	3:C:325:LYS:N	2.49	0.46
1:F:1071:ASN:HD21	1:F:1073:PHE:HB2	1.81	0.46
1:F:1291:LEU:HD13	1:F:1363:LEU:HD12	1.97	0.46
1:F:2155:GLU:HA	1:F:2158:ARG:CG	2.46	0.46
1:F:2202:PRO:HD3	1:F:2245:TRP:CE2	2.50	0.46
1:F:2328:ARG:HB2	1:F:2370:SER:OG	2.15	0.46
1:F:3722:PHE:CE1	1:F:3740:ILE:HG13	2.46	0.46
1:F:3729:MET:HE1	1:F:3737:ARG:HB2	1.97	0.46
1:F:3806:LEU:HD21	1:F:3940:ILE:HD13	1.96	0.46
1:A:551:PHE:HE1	1:A:557:SER:H	1.64	0.46
1:A:721:TYR:HB2	1:A:726:LEU:HB2	1.98	0.46
1:A:756:PHE:O	1:A:760:LEU:HD23	2.16	0.46
1:A:1046:PRO:HA	1:A:1049:GLN:CD	2.35	0.46
1:A:1515:LEU:HD12	1:A:1516:GLU:N	2.31	0.46
1:A:1934:LEU:HA	1:A:1937:ARG:HG3	1.97	0.46
1:A:2398:LEU:HD13	1:A:2435:CYS:SG	2.56	0.46
1:A:2825:THR:O	1:A:2828:GLU:HG2	2.16	0.46
1:A:3616:ALA:HB1	1:A:3629:ARG:HH22	1.81	0.46
2:B:402:PRO:HG2	2:B:406:ILE:HG21	1.97	0.46
2:B:404:ARG:HD3	2:B:405:ASN:N	2.30	0.46
3:C:499:LEU:HD22	3:C:500:HIS:NE2	2.31	0.46
1:F:786:GLN:O	1:F:790:LYS:NZ	2.49	0.46
1:F:1413:ASP:OD1	1:F:1414:ILE:N	2.48	0.46
1:F:1419:LEU:HD21	1:F:1467:ILE:HD11	1.98	0.46
1:F:1948:ALA:O	1:F:1952:ILE:HG13	2.15	0.46
1:F:2345:VAL:O	1:F:2349:LEU:HG	2.15	0.46
1:F:2503:LYS:HD3	1:F:2506:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2877:SER:O	1:F:2881:LEU:HG	2.16	0.46
1:F:3120:LEU:HD13	1:F:3899:ALA:HB2	1.97	0.46
1:F:4100:GLU:OE1	1:F:4100:GLU:N	2.38	0.46
3:H:81:ARG:NH1	3:H:84:MET:HB2	2.27	0.46
6:D:14:DT:H1'	7:E:43:DT:O2	2.16	0.46
1:A:336:ASN:HB2	1:A:340:TYR:CE2	2.51	0.46
1:A:856:VAL:HB	1:A:857:GLN:NE2	2.31	0.46
1:A:1038:LYS:HG3	1:A:1039:TRP:CD2	2.51	0.46
1:A:1474:ASP:OD1	1:A:1474:ASP:N	2.48	0.46
1:A:1840:PHE:CE2	1:A:1898:GLN:HB2	2.42	0.46
1:A:1901:HIS:NE2	1:A:1904:CYS:HB3	2.31	0.46
1:A:2310:VAL:C	1:A:2312:TYR:H	2.19	0.46
1:A:2452:ARG:HH22	1:A:2494:ASP:CG	2.19	0.46
1:A:3045:ILE:HG22	1:A:3049:LEU:HD11	1.98	0.46
1:A:3195:GLU:OE2	1:A:3196:LYS:NZ	2.42	0.46
1:A:3574:ALA:HB2	1:A:3686:TRP:CZ3	2.51	0.46
1:A:3751:LEU:HB2	1:A:3803:ILE:HB	1.98	0.46
1:A:3831:ASP:N	1:A:3831:ASP:OD1	2.49	0.46
2:B:85:VAL:HG22	2:B:106:GLN:HB2	1.98	0.46
2:B:121:GLN:OE1	2:B:130:ARG:NE	2.48	0.46
3:C:232:ARG:HG2	3:C:515:MET:HA	1.98	0.46
1:F:317:GLU:HG2	1:F:364:ARG:HH12	1.80	0.46
1:F:654:ILE:O	1:F:658:THR:HG23	2.16	0.46
1:F:958:MET:HB2	1:F:962:TYR:CZ	2.51	0.46
1:F:1111:LEU:O	1:F:1115:HIS:HD2	1.99	0.46
1:F:1248:PHE:HD1	1:F:1313:PHE:HA	1.80	0.46
1:F:1418:HIS:O	1:F:1421:GLU:HG2	2.16	0.46
1:F:1621:THR:O	1:F:1625:HIS:N	2.48	0.46
1:F:1897:ASN:OD1	1:F:1902:GLY:N	2.45	0.46
1:F:2212:ALA:O	1:F:2216:LEU:HG	2.15	0.46
1:F:2213:ASN:HA	1:F:2216:LEU:HD12	1.97	0.46
1:F:2310:VAL:HG13	1:F:2316:TYR:CZ	2.50	0.46
1:F:2397:CYS:O	1:F:2400:VAL:HG12	2.15	0.46
1:F:4101:GLU:HG2	1:F:4102:THR:N	2.29	0.46
2:G:182:LYS:HA	2:G:185:ARG:NH2	2.31	0.46
2:G:347:LEU:HD11	2:G:396:ALA:HB1	1.98	0.46
2:G:375:VAL:HG13	3:H:540:ILE:O	2.16	0.46
3:H:12:LEU:HB2	3:H:56:LEU:HA	1.97	0.46
3:H:33:GLN:O	3:H:36:LYS:HG2	2.15	0.46
3:H:219:ASP:OD1	3:H:219:ASP:N	2.43	0.46
4:J:28:DA:N1	5:I:29:DA:C2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:40:DT:H1'	5:I:41:DT:C2	2.51	0.46
1:A:99:LYS:NZ	1:A:144:MET:H	2.13	0.46
1:A:717:LYS:NZ	1:A:721:TYR:OH	2.31	0.46
1:A:1400:VAL:HG21	1:A:1460:ARG:HB3	1.97	0.46
1:A:1463:LEU:HB3	1:A:1466:ASN:OD1	2.16	0.46
1:A:1468:LEU:HD22	1:A:1521:PHE:HE1	1.81	0.46
1:A:1476:HIS:CD2	1:A:1521:PHE:CD1	3.04	0.46
1:A:1725:GLN:OE1	1:A:1727:ARG:HG2	2.16	0.46
1:A:1768:ARG:HD2	1:A:1768:ARG:HA	1.65	0.46
1:A:2470:ARG:O	1:A:2473:MET:HB3	2.16	0.46
2:B:187:ARG:NH2	2:B:216:PHE:HA	2.30	0.46
2:B:289:TYR:HB3	2:B:293:ASN:N	2.31	0.46
2:B:301:ARG:NH2	2:B:310:LEU:HD11	2.31	0.46
3:C:234:LEU:HA	3:C:237:PHE:HD2	1.79	0.46
3:C:599:ARG:O	3:C:603:LYS:HG2	2.16	0.46
1:F:24:ARG:HH21	1:F:25:CYS:HA	1.81	0.46
1:F:225:LYS:NZ	1:F:268:PRO:HA	2.31	0.46
1:F:256:ILE:HG13	1:F:257:ARG:HD3	1.97	0.46
1:F:432:THR:HA	1:F:435:LEU:HD12	1.98	0.46
1:F:971:ARG:NH1	1:F:1025:LEU:HD13	2.31	0.46
1:F:1082:PHE:CE2	1:F:1133:HIS:HB2	2.51	0.46
1:F:1095:LEU:O	1:F:1099:PHE:N	2.47	0.46
1:F:1982:ILE:O	1:F:2177:ASN:ND2	2.49	0.46
1:F:2102:LYS:HG2	1:F:2102:LYS:HZ3	1.58	0.46
1:F:2270:ASN:O	1:F:2273:GLY:N	2.50	0.46
1:F:3027:LEU:O	1:F:3067:LYS:NZ	2.37	0.46
1:F:3258:LEU:O	1:F:3262:LEU:HG	2.15	0.46
1:F:3982:SER:HB2	1:F:3986:HIS:HE1	1.81	0.46
1:F:4027:TRP:HA	1:F:4029:GLN:HE22	1.82	0.46
1:A:851:ILE:O	1:A:855:VAL:HG23	2.15	0.45
1:A:1090:ARG:HG3	1:A:1091:GLU:OE1	2.15	0.45
1:A:1136:ARG:HA	1:A:1139:GLU:OE1	2.16	0.45
1:A:1323:SER:OG	1:A:1324:PRO:HD3	2.16	0.45
1:A:1345:THR:O	1:A:1348:LEU:HB2	2.16	0.45
1:A:1775:GLU:CD	1:A:1775:GLU:H	2.20	0.45
1:A:1879:VAL:O	1:A:1882:SER:OG	2.21	0.45
1:A:2182:ILE:HD12	1:A:2225:HIS:HE1	1.81	0.45
1:A:2374:LEU:HD12	1:A:2377:ARG:HH22	1.81	0.45
1:A:3723:ASP:CB	1:A:3739:ILE:HB	2.46	0.45
2:B:273:ILE:N	2:B:273:ILE:HD12	2.31	0.45
2:B:303:PHE:N	3:C:290:GLN:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:8:ALA:HA	3:C:129:LYS:HB3	1.98	0.45
3:C:521:GLU:HG2	3:C:522:VAL:N	2.29	0.45
1:F:263:LYS:HE2	1:F:267:VAL:H	1.80	0.45
1:F:429:GLU:OE1	1:F:429:GLU:N	2.45	0.45
1:F:939:MET:O	1:F:942:LEU:HG	2.16	0.45
1:F:1083:ASN:HD21	1:F:1130:ALA:HB2	1.81	0.45
1:F:1085:ILE:O	1:F:1088:GLU:HG2	2.16	0.45
1:F:1568:ASN:O	1:F:1572:LEU:HD23	2.16	0.45
1:F:1672:PHE:CZ	1:F:1676:ILE:HD11	2.51	0.45
1:F:2340:SER:O	1:F:2344:LEU:HG	2.16	0.45
1:F:2383:PHE:HB3	1:F:2418:LYS:HE3	1.97	0.45
1:F:2469:CYS:SG	1:F:2470:ARG:HD3	2.56	0.45
1:F:2898:LEU:HD12	1:F:3973:PRO:HD3	1.96	0.45
1:F:3002:TYR:HB3	1:F:3011:LEU:HB2	1.97	0.45
1:F:3873:LYS:HG3	1:F:3877:LYS:NZ	2.31	0.45
2:G:111:PRO:HB2	3:H:317:GLY:HA2	1.98	0.45
2:G:269:ILE:HD13	2:G:382:PHE:HE1	1.81	0.45
6:D:33:DA:H2"	6:D:34:DT:C6	2.51	0.45
1:A:192:ASN:O	1:A:196:LEU:HG	2.16	0.45
1:A:390:GLN:HA	1:A:394:GLN:HE22	1.81	0.45
1:A:407:VAL:C	1:A:449:TYR:HE2	2.17	0.45
1:A:852:ARG:O	1:A:856:VAL:HG23	2.16	0.45
1:A:1983:ASP:HA	1:A:2184:TYR:OH	2.16	0.45
1:A:2102:LYS:O	1:A:2106:ARG:N	2.49	0.45
1:A:2931:ARG:HA	1:A:2931:ARG:NE	2.31	0.45
1:A:2964:ASP:OD1	1:A:2965:TYR:N	2.49	0.45
1:A:3361:GLU:HA	1:A:3373:VAL:HG21	1.97	0.45
1:A:3918:LEU:HB3	1:A:3920:ILE:CD1	2.46	0.45
1:A:3968:ILE:HD12	1:A:3971:MET:HB2	1.97	0.45
2:B:34:GLY:H	2:B:80:ARG:HH22	1.64	0.45
2:B:106:GLN:NE2	2:B:119:LEU:HD11	2.31	0.45
2:B:329:LEU:HD21	3:C:497:ARG:HG3	1.98	0.45
3:C:16:VAL:HB	3:C:58:LEU:HD12	1.98	0.45
1:F:324:SER:HB3	1:F:368:LEU:HD11	1.97	0.45
1:F:350:ARG:HB3	1:F:1733:THR:HG23	1.98	0.45
1:F:730:LEU:HD12	1:F:731:THR:N	2.31	0.45
1:F:756:PHE:CD1	1:F:796:LEU:HD21	2.51	0.45
1:F:1884:LEU:HD12	1:F:1888:ASP:OD2	2.16	0.45
1:F:3324:ARG:NH2	1:F:3394:GLU:HB2	2.31	0.45
1:F:3576:ASP:O	1:F:3579:SER:OG	2.35	0.45
2:G:341:ASP:OD2	2:G:408:PRO:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:7:LYS:HA	3:H:51:LYS:HD2	1.97	0.45
3:H:134:ILE:HG13	3:H:163:PHE:HA	1.98	0.45
3:H:263:ALA:HA	3:H:364:VAL:HA	1.98	0.45
3:H:344:GLY:O	3:H:392:ILE:HG12	2.17	0.45
1:A:39:GLY:HA3	1:A:826:PHE:CD1	2.52	0.45
1:A:99:LYS:H	1:A:141:SER:HB2	1.81	0.45
1:A:459:ARG:O	1:A:463:LYS:HG3	2.17	0.45
1:A:726:LEU:HD12	1:A:729:CYS:SG	2.56	0.45
1:A:1570:GLU:OE2	1:A:1573:LYS:HE3	2.16	0.45
1:A:1718:ILE:HG13	1:A:1719:VAL:N	2.31	0.45
1:A:1752:LEU:HD13	1:A:1788:ARG:HH12	1.82	0.45
1:A:1848:ILE:O	1:A:1852:LYS:NZ	2.43	0.45
1:A:2130:HIS:ND1	1:A:2163:HIS:O	2.49	0.45
1:A:2182:ILE:HD12	1:A:2225:HIS:CE1	2.52	0.45
1:A:2392:VAL:O	1:A:2395:THR:HB	2.16	0.45
1:A:2806:LYS:HD3	1:A:2857:CYS:HB3	1.98	0.45
1:A:2980:ASP:N	1:A:2980:ASP:OD1	2.49	0.45
1:A:3700:GLU:OE1	1:A:3704:GLN:HB3	2.16	0.45
1:A:3955:VAL:HG21	1:A:4121:TRP:HB2	1.97	0.45
1:A:4008:GLU:OE2	1:A:4010:SER:N	2.44	0.45
2:B:279:LYS:HZ1	3:C:358:GLY:H	1.64	0.45
2:B:375:VAL:HG22	3:C:541:GLU:HG3	1.97	0.45
3:C:551:GLN:OE1	3:C:551:GLN:N	2.49	0.45
3:C:618:ASN:HA	3:C:621:GLU:CD	2.36	0.45
1:F:303:HIS:CE1	1:F:308:LEU:HD22	2.51	0.45
1:F:398:THR:N	1:F:399:GLN:OE1	2.50	0.45
1:F:486:GLY:O	1:F:490:ILE:HG12	2.16	0.45
1:F:1572:LEU:HD21	1:F:1603:GLN:NE2	2.32	0.45
1:F:1576:ASP:O	1:F:1580:LEU:N	2.47	0.45
1:F:1581:GLU:HA	1:F:1584:GLN:HE22	1.81	0.45
1:F:2939:LEU:HB3	1:F:2943:PHE:CZ	2.52	0.45
1:F:3900:LEU:HD12	1:F:3901:ARG:N	2.31	0.45
2:G:392:LYS:HG3	3:H:458:ILE:HD11	1.97	0.45
4:J:18:DA:H2"	4:J:19:DA:C8	2.51	0.45
6:D:18:DA:C2	6:D:19:DA:N6	2.84	0.45
1:A:295:GLU:O	1:A:299:LYS:N	2.42	0.45
1:A:782:ARG:CZ	1:A:783:HIS:CE1	2.99	0.45
1:A:957:PRO:CB	1:A:1004:GLN:HG3	2.47	0.45
1:A:1681:ASP:OD1	1:A:1683:LYS:N	2.49	0.45
1:A:1860:GLU:OE2	1:A:1861:SER:N	2.49	0.45
1:A:2365:ASN:CG	1:A:2400:VAL:HB	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3030:ILE:HG22	1:A:3030:ILE:O	2.16	0.45
1:A:3123:GLN:O	1:A:3127:THR:N	2.36	0.45
1:A:3144:PHE:CE1	1:A:3150:ASN:HB3	2.52	0.45
1:A:3235:LYS:HA	1:A:3238:MET:CE	2.46	0.45
1:A:4120:THR:HG21	1:A:4126:PRO:HG3	1.97	0.45
2:B:351:LYS:NZ	3:C:475:ASP:HA	2.31	0.45
3:C:244:SER:HB3	3:C:264:TYR:HB3	1.98	0.45
3:C:641:ALA:O	3:C:645:GLU:HG2	2.16	0.45
1:F:1369:MET:HG3	1:F:1418:HIS:NE2	2.30	0.45
1:F:1715:GLU:HA	1:F:1718:ILE:HG12	1.98	0.45
1:F:2336:ILE:HG13	1:F:2336:ILE:O	2.17	0.45
1:F:3142:ILE:O	1:F:3146:SER:HB3	2.16	0.45
1:F:3585:PHE:HA	1:F:3613:MET:CE	2.44	0.45
1:F:3811:THR:HG21	1:F:3926:ASN:HD22	1.80	0.45
1:F:3908:HIS:NE2	1:F:3912:CYS:SG	2.90	0.45
2:G:256:LEU:H	2:G:256:LEU:HD23	1.82	0.45
2:G:412:ALA:C	2:G:434:LEU:HD12	2.37	0.45
3:H:165:LEU:HD21	3:H:194:LEU:HB2	1.98	0.45
3:H:335:SER:OG	3:H:396:ALA:HB1	2.17	0.45
1:A:1220:LEU:HB3	1:A:1224:PHE:CE2	2.52	0.45
1:A:1893:GLU:H	1:A:1895:LYS:HZ1	1.65	0.45
1:A:2520:ILE:HD13	1:A:2523:ASN:OD1	2.17	0.45
1:A:2825:THR:N	1:A:2828:GLU:OE2	2.32	0.45
1:A:3001:CYS:SG	1:A:3002:TYR:N	2.90	0.45
1:A:3145:ILE:HD11	1:A:3196:LYS:HE2	1.98	0.45
1:A:3466:PRO:HB2	1:A:4004:VAL:HG11	1.97	0.45
1:A:3870:SER:O	1:A:3874:ARG:HG2	2.16	0.45
1:A:3886:ALA:O	1:A:3889:ARG:N	2.50	0.45
2:B:34:GLY:C	2:B:162:SER:HB3	2.37	0.45
2:B:318:ARG:N	2:B:329:LEU:O	2.49	0.45
2:B:380:THR:O	3:C:450:GLN:NE2	2.47	0.45
3:C:293:THR:HG22	3:C:295:TYR:CE1	2.51	0.45
3:C:599:ARG:HA	3:C:602:VAL:HG22	1.98	0.45
1:F:144:MET:SD	1:F:145:ASP:N	2.89	0.45
1:F:940:PHE:O	1:F:944:LYS:HG2	2.17	0.45
1:F:1622:ILE:O	1:F:1626:TRP:N	2.49	0.45
1:F:1775:GLU:OE1	1:F:1775:GLU:N	2.40	0.45
1:F:1812:LEU:HB3	1:F:1815:THR:HG23	1.97	0.45
1:F:1829:TRP:HA	1:F:1883:ARG:HH22	1.81	0.45
1:F:2338:GLU:OE1	1:F:2339:GLU:N	2.49	0.45
1:F:3269:ARG:HB3	1:F:3272:TRP:CE3	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3410:ILE:HG22	1:F:3453:ALA:HB1	1.98	0.45
1:F:3419:PHE:O	1:F:3422:GLN:HG3	2.16	0.45
1:F:3545:THR:HA	1:F:3549:HIS:HB2	1.98	0.45
1:F:3603:LYS:HE2	1:F:3651:LEU:HD21	1.97	0.45
1:F:3774:ILE:HG22	1:F:3778:ASP:OD2	2.16	0.45
2:G:356:LEU:HD11	3:H:353:ARG:HH21	1.80	0.45
3:H:43:GLN:HA	3:H:46:VAL:HG12	1.97	0.45
3:H:74:TYR:OH	3:H:112:ILE:HD12	2.17	0.45
1:A:248:ILE:O	1:A:252:VAL:HG23	2.17	0.45
1:A:327:VAL:C	1:A:329:LYS:N	2.70	0.45
1:A:584:GLU:O	1:A:613:HIS:N	2.47	0.45
1:A:721:TYR:HB2	1:A:726:LEU:HD13	1.98	0.45
1:A:910:PHE:CZ	1:A:2808:LEU:HD23	2.51	0.45
1:A:1212:LEU:HA	1:A:1219:PHE:CD2	2.51	0.45
1:A:1225:GLU:HB2	1:A:1236:LEU:HD22	1.99	0.45
1:A:1327:GLY:O	1:A:1331:ASN:ND2	2.50	0.45
1:A:1333:SER:O	1:A:1337:VAL:HG23	2.16	0.45
1:A:1747:LEU:O	1:A:1750:LEU:HB2	2.17	0.45
1:A:1855:PHE:HB3	1:A:1870:LYS:HZ3	1.82	0.45
1:A:1917:LYS:HD2	1:A:1917:LYS:N	2.32	0.45
1:A:2255:LEU:HA	1:A:2258:GLU:OE2	2.16	0.45
1:A:3810:VAL:HG22	1:A:3811:THR:H	1.80	0.45
1:A:3898:LEU:HD12	1:A:3899:ALA:N	2.31	0.45
2:B:319:SER:HA	2:B:327:ILE:O	2.17	0.45
2:B:471:PHE:HZ	2:B:517:ARG:NH2	2.15	0.45
3:C:682:GLY:O	3:C:686:ILE:N	2.49	0.45
1:F:51:LEU:O	1:F:54:GLN:NE2	2.50	0.45
1:F:582:THR:O	1:F:615:ALA:HB2	2.15	0.45
1:F:1091:GLU:OE1	1:F:1091:GLU:N	2.50	0.45
1:F:1404:LYS:HA	1:F:1407:LYS:NZ	2.30	0.45
1:F:2252:PRO:C	1:F:2254:ARG:H	2.19	0.45
1:F:2866:ALA:HA	1:F:2869:LEU:HD12	1.98	0.45
1:F:3134:ALA:O	1:F:3138:ILE:HG12	2.17	0.45
1:F:3172:LYS:O	1:F:3783:GLN:NE2	2.50	0.45
1:F:3252:PHE:O	1:F:3254:LEU:HD23	2.17	0.45
1:F:3259:LEU:HD11	1:F:3283:LEU:HD13	1.99	0.45
1:F:3273:LEU:O	1:F:3277:VAL:HG23	2.17	0.45
1:F:3577:GLN:NE2	1:F:3625:LEU:HA	2.32	0.45
1:F:3628:PHE:HA	1:F:3675:LYS:HD2	1.99	0.45
1:F:3671:ASN:OD1	1:F:3672:LYS:N	2.49	0.45
1:F:3918:LEU:HB2	1:F:3920:ILE:HG12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3949:ALA:O	1:F:3953:LEU:HB2	2.15	0.45
2:G:478:PHE:CZ	3:H:424:LEU:HD22	2.52	0.45
3:H:629:THR:O	3:H:633:MET:HG2	2.16	0.45
3:H:640:ARG:HD2	3:H:685:LEU:HG	1.99	0.45
6:D:15:DA:H5'	7:E:42:DA:C2	2.49	0.45
1:A:1166:LEU:O	1:A:1170:LYS:HG2	2.16	0.45
1:A:2261:SER:O	1:A:2270:ASN:ND2	2.50	0.45
1:A:2481:HIS:CE1	1:A:2485:ARG:HB3	2.52	0.45
1:A:2818:LYS:HD3	1:A:2818:LYS:HA	1.74	0.45
1:A:2931:ARG:NH2	1:A:2939:LEU:HD11	2.32	0.45
1:A:3100:LYS:O	1:A:3104:GLN:HG2	2.16	0.45
1:A:3302:LYS:HA	1:A:3305:SER:HB3	1.99	0.45
1:A:3455:LYS:HA	1:A:3491:PRO:HG2	1.98	0.45
1:A:3828:TYR:O	1:A:3832:PRO:HG3	2.17	0.45
1:A:3995:PRO:O	1:A:3999:THR:HG23	2.16	0.45
1:A:4098:LEU:HB2	1:A:4103:GLN:NE2	2.32	0.45
2:B:350:PHE:HD2	3:C:458:ILE:HA	1.77	0.45
2:B:410:PHE:O	2:B:437:LEU:HG	2.16	0.45
1:F:560:LEU:O	1:F:563:LEU:N	2.49	0.45
1:F:667:TYR:HB2	1:F:728:SER:CB	2.42	0.45
1:F:1207:TRP:CZ3	1:F:1211:VAL:HG21	2.52	0.45
1:F:1820:VAL:HG23	1:F:1824:LEU:HD12	1.98	0.45
1:F:2512:ASP:HB3	1:F:2518:GLN:NE2	2.32	0.45
1:F:2565:MET:O	1:F:2568:MET:HG3	2.16	0.45
1:F:2862:SER:OG	1:F:2892:LEU:HD12	2.17	0.45
1:F:3008:TRP:HD1	1:F:3011:LEU:CD2	2.30	0.45
1:F:3811:THR:HG22	1:F:3813:LYS:H	1.82	0.45
1:F:4035:GLU:OE2	1:F:4036:LYS:N	2.49	0.45
2:G:52:GLN:HG3	2:G:206:LYS:HG3	1.98	0.45
2:G:319:SER:O	3:H:277:THR:N	2.48	0.45
4:J:18:DA:C5	5:I:39:DA:N1	2.84	0.45
6:D:37:DG:C2	6:D:38:DG:C2	3.05	0.45
1:A:571:SER:HA	1:A:574:LYS:HZ2	1.80	0.45
1:A:793:LEU:HD22	1:A:869:ASN:ND2	2.31	0.45
1:A:1134:LEU:O	1:A:1137:ILE:HG22	2.17	0.45
1:A:1337:VAL:O	1:A:1341:ILE:HG13	2.17	0.45
1:A:1360:LYS:HE2	1:A:1360:LYS:HA	1.98	0.45
1:A:1635:LYS:HE2	1:A:1683:LYS:NZ	2.32	0.45
1:A:1811:ARG:NE	3:C:627:ASN:OD1	2.50	0.45
1:A:2100:LEU:HD12	1:A:2101:VAL:N	2.32	0.45
1:A:2135:ASN:O	1:A:2138:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2580:PRO:HB2	1:A:2582:SER:O	2.16	0.45
1:A:2586:PHE:HB3	1:A:2776:ARG:HD2	1.98	0.45
1:A:2789:SER:HA	1:A:2792:THR:OG1	2.16	0.45
1:A:3628:PHE:CG	1:A:3683:CYS:HA	2.51	0.45
1:A:3735:PRO:HB2	1:A:3751:LEU:HD12	1.98	0.45
1:A:3812:LEU:O	1:A:3816:LEU:N	2.38	0.45
2:B:343:PRO:HA	2:B:401:THR:OG1	2.17	0.45
3:C:232:ARG:HD2	3:C:515:MET:HA	1.98	0.45
3:C:629:THR:HA	3:C:632:PHE:CZ	2.52	0.45
1:F:649:PHE:CZ	1:F:653:LEU:HD11	2.52	0.45
1:F:990:GLN:CB	1:F:2781:PRO:HD3	2.46	0.45
1:F:1030:GLY:O	1:F:1033:ILE:HG22	2.17	0.45
1:F:1476:HIS:H	1:F:1524:LEU:CD2	2.30	0.45
1:F:1811:ARG:HH22	3:H:627:ASN:H	1.63	0.45
1:F:3164:TRP:HH2	1:F:3189:PHE:CZ	2.34	0.45
1:F:3167:ARG:HA	1:F:3167:ARG:HD2	1.63	0.45
1:F:3700:GLU:HG3	1:F:3717:VAL:O	2.17	0.45
1:F:3758:LEU:HD12	1:F:3794:VAL:C	2.37	0.45
3:H:16:VAL:O	3:H:101:GLY:N	2.50	0.45
3:H:548:VAL:O	3:H:548:VAL:HG12	2.17	0.45
6:D:21:DA:H2"	6:D:22:DG:C8	2.52	0.45
1:A:108:LYS:HA	1:A:111:CYS:SG	2.57	0.45
1:A:264:ARG:HG2	1:A:265:TYR:N	2.32	0.45
1:A:699:GLU:OE1	1:A:699:GLU:N	2.35	0.45
1:A:892:LEU:HD11	1:A:940:PHE:CE2	2.52	0.45
1:A:962:TYR:HB3	1:A:966:PHE:CE2	2.51	0.45
1:A:1558:TYR:CE2	1:A:1562:LEU:HD11	2.51	0.45
1:A:1980:ASN:O	1:A:1982:ILE:HG12	2.16	0.45
1:A:3136:THR:O	1:A:3140:GLU:HB2	2.16	0.45
1:A:3193:ILE:HD11	1:A:3231:ILE:HG12	1.99	0.45
1:A:3587:ASP:HA	1:A:3590:ASN:OD1	2.16	0.45
2:B:289:TYR:H	2:B:294:GLU:H	1.64	0.45
3:C:395:TYR:HD1	3:C:404:GLN:HB2	1.81	0.45
1:F:296:VAL:HB	1:F:300:TRP:CD1	2.52	0.45
1:F:432:THR:CG2	1:F:433:PRO:HD3	2.47	0.45
1:F:643:GLU:O	1:F:646:VAL:HG22	2.17	0.45
1:F:678:LYS:HZ1	1:F:683:PHE:H	1.65	0.45
1:F:878:GLU:HG3	1:F:879:MET:SD	2.57	0.45
1:F:1794:GLN:O	1:F:1798:LEU:HG	2.17	0.45
1:F:1872:GLY:HA2	1:F:1875:LYS:HE2	1.98	0.45
1:F:2097:LEU:O	1:F:2101:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2950:LYS:O	1:F:2953:THR:N	2.43	0.45
1:F:3460:GLU:HB2	1:F:3464:LYS:HE3	1.99	0.45
1:F:3580:ASN:HA	1:F:3628:PHE:CZ	2.51	0.45
2:G:51:SER:HB3	2:G:54:GLU:O	2.17	0.45
2:G:103:TYR:CE2	2:G:135:MET:HB3	2.52	0.45
3:H:52:ASP:N	3:H:52:ASP:OD1	2.50	0.45
3:H:496:HIS:CD2	3:H:506:PRO:HB3	2.52	0.45
1:A:107:ILE:HG22	1:A:133:LYS:HZ3	1.82	0.45
1:A:149:ILE:O	1:A:151:GLU:N	2.50	0.45
1:A:339:GLN:NE2	3:C:570:GLU:HA	2.32	0.45
1:A:575:ILE:O	1:A:579:LEU:HG	2.16	0.45
1:A:729:CYS:O	1:A:733:LEU:HG	2.17	0.45
1:A:741:ILE:HG23	1:A:748:TYR:CD2	2.49	0.45
1:A:899:ARG:NH1	1:A:2565:MET:O	2.44	0.45
1:A:1364:CYS:O	1:A:1368:LEU:HB2	2.17	0.45
1:A:1635:LYS:HE2	1:A:1683:LYS:HZ2	1.82	0.45
1:A:2326:ILE:HD12	1:A:2329:TYR:HB3	1.99	0.45
1:A:2346:ALA:O	1:A:2349:LEU:HG	2.16	0.45
1:A:2522:ARG:O	1:A:2526:SER:OG	2.23	0.45
1:A:2808:LEU:O	1:A:2812:LEU:HD23	2.17	0.45
1:A:2942:ILE:HG13	1:A:2942:ILE:O	2.17	0.45
1:A:3147:LYS:HD3	1:A:3149:GLY:N	2.31	0.45
1:A:3913:ILE:HD11	1:A:3991:PHE:HE2	1.81	0.45
2:B:174:ASN:HB2	2:B:215:LEU:HD23	1.98	0.45
2:B:176:HIS:CD2	2:B:180:SER:HA	2.52	0.45
3:C:659:LEU:HD22	3:C:688:LYS:HE2	1.99	0.45
1:F:1696:LEU:HD12	1:F:1699:PHE:HB2	1.99	0.45
1:F:1730:PRO:CD	1:F:1735:ARG:HH22	2.30	0.45
1:F:2464:HIS:O	1:F:2466:SER:N	2.50	0.45
1:F:2562:LEU:HA	1:F:2565:MET:HB3	1.99	0.45
1:F:3726:VAL:HG12	1:F:3728:VAL:HG23	1.98	0.45
1:F:4016:PHE:O	1:F:4020:MET:HG2	2.17	0.45
2:G:91:GLU:OE1	2:G:136:GLY:HA3	2.17	0.45
2:G:456:PRO:HA	2:G:459:VAL:HG23	1.98	0.45
3:H:138:LEU:HD21	3:H:204:GLY:HA3	1.99	0.45
3:H:306:LEU:HB3	3:H:309:ASP:HB2	1.99	0.45
1:A:17:GLU:HA	1:A:20:SER:OG	2.16	0.44
1:A:138:PHE:CE1	1:A:146:GLU:HA	2.51	0.44
1:A:823:GLN:HE22	1:A:831:LEU:HD11	1.82	0.44
1:A:887:ASP:HB3	1:A:958:MET:HE2	1.98	0.44
1:A:1419:LEU:HD21	1:A:1467:ILE:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1767:CYS:HA	1:A:1822:ARG:CZ	2.47	0.44
1:A:2372:PRO:HG2	1:A:2373:PRO:HD3	1.98	0.44
1:A:2479:TRP:HA	1:A:2482:ASP:OD2	2.17	0.44
1:A:3027:LEU:HA	1:A:3031:TRP:HZ2	1.81	0.44
1:A:3048:LYS:HD3	1:A:3061:LEU:CB	2.47	0.44
1:A:3158:LYS:O	1:A:3161:LEU:HG	2.17	0.44
1:A:3159:ARG:HH11	1:A:3159:ARG:HA	1.82	0.44
1:A:3298:LEU:HD13	1:A:3337:ILE:HG12	1.99	0.44
1:A:3352:GLU:HB2	1:A:3357:ARG:CZ	2.47	0.44
1:A:3496:ILE:HD12	1:A:3496:ILE:H	1.82	0.44
1:A:4046:TYR:HB3	1:A:4050:LYS:HZ3	1.82	0.44
2:B:54:GLU:HB3	2:B:56:GLU:CD	2.38	0.44
3:C:16:VAL:HG23	3:C:99:GLN:O	2.16	0.44
3:C:146:GLN:O	3:C:150:ILE:HG23	2.17	0.44
3:C:696:VAL:HA	3:C:699:GLU:HB2	1.99	0.44
1:F:15:LEU:O	1:F:18:THR:OG1	2.30	0.44
1:F:752:LEU:HB3	1:F:756:PHE:HE2	1.82	0.44
1:F:826:PHE:CD2	1:F:836:LYS:HD2	2.52	0.44
1:F:1413:ASP:O	1:F:1417:THR:HG23	2.17	0.44
1:F:1560:TYR:OH	1:F:1596:VAL:HA	2.17	0.44
1:F:1770:GLN:HB2	1:F:1814:PHE:HZ	1.80	0.44
1:F:2121:ASP:N	1:F:2121:ASP:OD1	2.51	0.44
1:F:2396:LEU:O	1:F:2399:GLU:HG2	2.17	0.44
1:F:2522:ARG:HG3	1:F:2523:ASN:N	2.32	0.44
1:F:3459:ASN:O	1:F:3463:LEU:HG	2.17	0.44
1:F:3716:HIS:O	1:F:3718:ARG:NH1	2.50	0.44
1:F:3758:LEU:HB2	1:F:3795:PRO:HD3	2.00	0.44
2:G:49:PHE:HE2	2:G:132:GLN:HE22	1.63	0.44
2:G:325:ARG:NH2	2:G:326:GLN:O	2.50	0.44
2:G:334:THR:O	2:G:337:LEU:HB2	2.17	0.44
2:G:410:PHE:HE2	3:H:482:ILE:HG13	1.82	0.44
3:H:34:ALA:O	3:H:38:ILE:HG12	2.16	0.44
3:H:343:LEU:N	3:H:392:ILE:O	2.41	0.44
4:J:28:DA:H2'	4:J:28:DA:O5'	2.17	0.44
6:D:32:DT:O2	7:E:25:DA:H2	1.99	0.44
7:E:29:DA:C6	7:E:30:DA:C6	3.05	0.44
1:A:582:THR:HG21	1:A:615:ALA:HB3	2.00	0.44
1:A:755:ALA:O	1:A:759:GLY:N	2.39	0.44
1:A:1661:PHE:HA	1:A:1665:HIS:ND1	2.33	0.44
1:A:3251:ASN:OD1	1:A:3252:PHE:N	2.50	0.44
1:A:3258:LEU:HB3	1:A:3262:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3763:ARG:HA	1:A:3763:ARG:NE	2.32	0.44
2:B:186:ALA:HA	2:B:189:LYS:NZ	2.32	0.44
2:B:404:ARG:NH1	2:B:405:ASN:OD1	2.50	0.44
2:B:413:LEU:HD21	2:B:432:PHE:CD1	2.51	0.44
2:B:523:ASP:HA	3:C:256:ASN:ND2	2.31	0.44
3:C:250:ARG:HG2	3:C:260:ARG:HA	1.99	0.44
1:F:139:ARG:HA	1:F:139:ARG:NE	2.32	0.44
1:F:448:GLN:HE21	1:F:520:LYS:HB2	1.82	0.44
1:F:763:THR:HB	1:F:851:ILE:HD11	1.98	0.44
1:F:854:ARG:HG2	1:F:857:GLN:NE2	2.31	0.44
1:F:858:MET:O	1:F:862:LEU:N	2.49	0.44
1:F:1071:ASN:HD22	1:F:1074:LYS:HZ2	1.64	0.44
1:F:1268:ASN:HD21	1:F:1344:PHE:HB2	1.82	0.44
1:F:1326:GLU:HA	1:F:1329:ARG:NH1	2.33	0.44
1:F:1529:VAL:HG11	1:F:1581:GLU:HB2	1.99	0.44
1:F:1639:LEU:HB3	1:F:1643:MET:HE3	1.99	0.44
1:F:1710:LEU:O	1:F:1713:VAL:HG22	2.17	0.44
1:F:1814:PHE:HA	1:F:1817:GLN:HG3	1.99	0.44
1:F:1867:ILE:O	1:F:1871:MET:HG2	2.17	0.44
1:F:2351:GLN:N	1:F:2353:GLN:HG2	2.33	0.44
1:F:2512:ASP:C	1:F:2518:GLN:HE22	2.21	0.44
1:F:3846:MET:CB	1:F:3858:MET:HA	2.47	0.44
2:G:107:GLU:OE2	2:G:109:ASP:HB3	2.17	0.44
2:G:447:PRO:HG2	3:H:365:PHE:CZ	2.53	0.44
3:H:87:ASP:HB3	3:H:90:LEU:HG	1.98	0.44
1:A:99:LYS:H	1:A:141:SER:CB	2.31	0.44
1:A:474:VAL:HG22	1:A:478:CYS:N	2.32	0.44
1:A:474:VAL:HG22	1:A:478:CYS:H	1.82	0.44
1:A:541:MET:HA	1:A:544:ILE:HB	2.00	0.44
1:A:901:MET:CG	1:A:2819:GLU:HG2	2.48	0.44
1:A:1369:MET:HE1	1:A:1414:ILE:HB	1.99	0.44
1:A:1710:LEU:O	1:A:1714:LEU:HG	2.17	0.44
1:A:2433:LYS:HB3	1:A:2469:CYS:SG	2.58	0.44
1:A:2586:PHE:CD1	1:A:2778:GLY:HA3	2.52	0.44
1:A:2792:THR:OG1	1:A:2793:PRO:HD3	2.18	0.44
1:A:3537:SER:HA	1:A:3540:TYR:OH	2.17	0.44
1:A:3669:LYS:HG3	1:A:3670:MET:HG2	1.99	0.44
1:A:3701:ILE:HG13	1:A:3704:GLN:H	1.82	0.44
1:A:3863:ASN:HB3	1:A:3866:GLU:CB	2.47	0.44
1:A:4089:ILE:CD1	1:A:4092:GLN:HE22	2.31	0.44
3:C:76:ASN:HB2	3:C:105:ALA:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:482:ILE:HG21	3:C:516:LEU:HD21	1.98	0.44
3:C:610:GLU:OE1	3:C:654:ARG:NH2	2.50	0.44
1:F:193:ALA:HB1	1:F:197:PHE:CZ	2.52	0.44
1:F:583:LEU:HB2	1:F:614:PRO:HA	1.98	0.44
1:F:1045:THR:O	1:F:1048:GLN:HB2	2.17	0.44
1:F:1241:LEU:HB3	1:F:1256:TRP:CZ3	2.53	0.44
1:F:1307:ILE:HD13	1:F:1311:LYS:HZ2	1.82	0.44
1:F:1457:GLN:HB3	1:F:1460:ARG:NH2	2.31	0.44
1:F:1745:LYS:HA	1:F:1748:ASP:OD2	2.17	0.44
1:F:2196:TRP:HB2	1:F:2199:LEU:HD23	1.98	0.44
1:F:2217:ASN:HA	1:F:2220:MET:SD	2.57	0.44
1:F:2225:HIS:O	1:F:2227:LYS:N	2.49	0.44
1:F:2499:PHE:O	1:F:2503:LYS:NZ	2.41	0.44
1:F:3564:GLN:O	1:F:3569:GLN:NE2	2.38	0.44
1:F:4089:ILE:HA	1:F:4092:GLN:NE2	2.33	0.44
2:G:131:PHE:HA	2:G:134:MET:HG2	1.99	0.44
2:G:487:PHE:HB2	2:G:488:ARG:NH1	2.32	0.44
3:H:74:TYR:O	3:H:77:ILE:HD12	2.17	0.44
1:A:99:LYS:HD2	1:A:141:SER:HB2	1.99	0.44
1:A:135:LEU:HD23	1:A:177:LEU:HD13	1.99	0.44
1:A:251:PHE:CZ	1:A:285:CYS:HB3	2.45	0.44
1:A:313:LEU:O	1:A:316:LEU:N	2.49	0.44
1:A:338:LEU:HD12	1:A:339:GLN:N	2.33	0.44
1:A:357:LYS:HE3	1:A:408:TYR:HD2	1.83	0.44
1:A:457:CYS:O	1:A:461:ILE:HD12	2.17	0.44
1:A:1301:ILE:HG23	1:A:1330:TYR:CZ	2.52	0.44
1:A:2211:LEU:O	1:A:2215:LEU:HG	2.16	0.44
1:A:2572:TYR:CE1	1:A:2788:SER:HA	2.52	0.44
1:A:3067:LYS:HD3	1:A:3067:LYS:N	2.33	0.44
1:A:3365:SER:O	1:A:3373:VAL:HA	2.18	0.44
2:B:41:LEU:O	2:B:169:PHE:HD1	2.00	0.44
2:B:66:CYS:SG	2:B:67:ILE:N	2.91	0.44
2:B:82:LEU:C	2:B:83:LEU:HD12	2.37	0.44
2:B:350:PHE:HB3	2:B:394:VAL:HG22	1.98	0.44
2:B:473:TYR:CD2	3:C:350:GLN:HB3	2.52	0.44
3:C:348:SER:OG	3:C:390:VAL:HG13	2.17	0.44
3:C:618:ASN:OD1	3:C:619:HIS:N	2.47	0.44
1:F:163:LYS:HZ3	2:G:302:THR:HG22	1.82	0.44
1:F:708:VAL:HG22	1:F:740:ILE:CG1	2.47	0.44
1:F:828:LYS:NZ	1:F:830:VAL:HG22	2.32	0.44
1:F:1435:ASN:HB3	1:F:1440:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1625:HIS:HA	1:F:1628:LYS:NZ	2.29	0.44
1:F:1685:ASP:OD1	1:F:1688:LEU:HG	2.16	0.44
1:F:1981:LEU:HD13	1:F:1981:LEU:HA	1.90	0.44
1:F:2223:VAL:HG22	1:F:2224:PHE:H	1.82	0.44
1:F:2312:TYR:CE2	1:F:2314:GLU:HB3	2.52	0.44
1:F:2330:VAL:HG11	1:F:2336:ILE:HG22	1.99	0.44
1:F:3275:SER:HA	1:F:3278:GLN:NE2	2.32	0.44
1:F:3567:VAL:O	1:F:3571:PHE:N	2.39	0.44
1:F:3592:VAL:O	1:F:3595:GLU:HG2	2.17	0.44
2:G:49:PHE:HA	2:G:60:PHE:HB2	1.99	0.44
2:G:482:VAL:O	2:G:486:HIS:ND1	2.49	0.44
3:H:510:GLN:HA	3:H:513:TRP:CZ3	2.53	0.44
3:H:524:THR:O	3:H:528:ILE:HG12	2.17	0.44
3:H:686:ILE:HG23	3:H:699:GLU:HG3	1.99	0.44
4:J:36:DG:H22	5:I:21:DA:P	2.39	0.44
1:A:721:TYR:O	1:A:726:LEU:HD22	2.17	0.44
1:A:737:PRO:O	1:A:741:ILE:HD12	2.18	0.44
1:A:1050:GLU:OE1	1:A:1050:GLU:N	2.27	0.44
1:A:1135:CYS:O	1:A:1139:GLU:HG3	2.17	0.44
1:A:1378:GLU:HG3	1:A:1381:SER:H	1.83	0.44
1:A:1424:THR:C	1:A:1426:GLN:H	2.20	0.44
1:A:1584:GLN:HA	1:A:1584:GLN:OE1	2.17	0.44
1:A:1724:MET:CE	3:C:622:GLN:HB2	2.48	0.44
1:A:1777:LEU:O	1:A:1780:SER:OG	2.29	0.44
1:A:3008:TRP:CE2	1:A:3050:LYS:HD2	2.53	0.44
1:A:3555:VAL:HG12	1:A:3559:LYS:HD3	1.98	0.44
1:A:3749:PRO:HG2	1:A:3805:TRP:HB3	1.99	0.44
1:A:3849:LYS:HE2	1:A:3854:ALA:HB2	1.99	0.44
2:B:126:GLN:HA	2:B:129:LYS:HD2	1.98	0.44
2:B:285:PRO:HA	3:C:314:PHE:CE1	2.53	0.44
2:B:412:ALA:C	2:B:434:LEU:HD12	2.38	0.44
3:C:206:GLU:HA	3:C:209:LYS:HE2	1.98	0.44
3:C:352:GLN:HG3	3:C:354:ARG:N	2.28	0.44
1:F:233:ASN:OD1	1:F:278:HIS:NE2	2.51	0.44
1:F:446:PHE:CD2	1:F:527:TYR:HA	2.52	0.44
1:F:1102:GLU:H	1:F:1102:GLU:CD	2.18	0.44
1:F:1122:GLY:HA2	1:F:1125:GLN:NE2	2.32	0.44
1:F:1220:LEU:HD22	1:F:1284:THR:HG23	2.00	0.44
1:F:1811:ARG:HD3	1:F:1811:ARG:HA	1.72	0.44
1:F:1831:CYS:SG	1:F:1883:ARG:HD2	2.57	0.44
1:F:1933:LEU:HD12	1:F:1933:LEU:HA	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2342:CYS:SG	1:F:2377:ARG:NH2	2.86	0.44
1:F:2363:CYS:HA	1:F:2366:LYS:HZ1	1.83	0.44
1:F:2373:PRO:HA	1:F:2404:ARG:NH1	2.33	0.44
1:F:2405:VAL:HG21	1:F:2442:MET:HA	2.00	0.44
1:F:2791:ILE:HG13	1:F:2792:THR:N	2.32	0.44
1:F:3568:ILE:O	1:F:3572:ILE:HG13	2.18	0.44
1:F:3873:LYS:O	1:F:3876:SER:HB2	2.17	0.44
1:F:3988:LEU:HD12	1:F:3991:PHE:HD2	1.83	0.44
1:F:4081:ALA:O	1:F:4110:GLN:NE2	2.43	0.44
2:G:334:THR:HA	2:G:337:LEU:HD12	1.99	0.44
3:H:153:SER:HA	3:H:156:LYS:NZ	2.33	0.44
3:H:263:ALA:HB1	3:H:362:LEU:HD11	2.00	0.44
3:H:462:SER:HB3	3:H:465:LYS:HG3	1.99	0.44
5:I:29:DA:H1'	5:I:30:DA:H5'	2.00	0.44
1:A:390:GLN:HA	1:A:394:GLN:NE2	2.32	0.44
1:A:1294:VAL:HA	1:A:1297:PHE:CE2	2.52	0.44
1:A:2428:ASP:OD2	1:A:2431:ARG:NE	2.48	0.44
1:A:2555:LEU:HD23	1:A:2809:PHE:HB3	1.99	0.44
1:A:3929:MET:O	1:A:3937:VAL:HA	2.17	0.44
1:A:4065:LEU:HD13	1:A:4074:PHE:CZ	2.52	0.44
1:A:6009:UNK:O	1:A:6013:UNK:N	2.51	0.44
2:B:274:TYR:O	2:B:367:PHE:N	2.50	0.44
2:B:318:ARG:NH1	2:B:331:LYS:HE3	2.32	0.44
2:B:461:LYS:HE3	2:B:527:GLU:H	1.83	0.44
3:C:357:MET:HB2	3:C:423:GLN:HB3	2.00	0.44
3:C:599:ARG:HH21	3:C:645:GLU:HG3	1.82	0.44
1:F:1710:LEU:O	1:F:1714:LEU:HG	2.17	0.44
1:F:2426:HIS:NE2	1:F:2428:ASP:OD2	2.49	0.44
1:F:2553:HIS:O	1:F:2555:LEU:N	2.51	0.44
1:F:2559:THR:O	1:F:2562:LEU:HG	2.18	0.44
1:F:3365:SER:OG	1:F:3373:VAL:HA	2.17	0.44
1:F:3555:VAL:HG12	1:F:3559:LYS:HZ1	1.81	0.44
1:F:3745:GLU:O	1:F:3746:ARG:HD2	2.18	0.44
1:F:3980:MET:HB2	1:F:3984:MET:HE1	1.98	0.44
2:G:122:PHE:O	2:G:127:GLY:HA3	2.17	0.44
2:G:140:ASP:CG	2:G:141:TYR:H	2.21	0.44
2:G:258:ARG:HD3	2:G:258:ARG:H	1.83	0.44
2:G:299:LYS:HE3	3:H:294:VAL:N	2.33	0.44
2:G:350:PHE:HB3	2:G:394:VAL:HG22	2.00	0.44
3:H:16:VAL:HA	3:H:31:PHE:HE2	1.82	0.44
6:D:20:DT:C4	7:E:37:DT:O4	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:21:DA:H2"	6:D:22:DG:H8	1.82	0.44
1:A:207:GLN:OE1	1:A:220:LEU:HD22	2.17	0.44
1:A:355:ASN:HD22	1:A:358:GLU:HB2	1.82	0.44
1:A:410:MET:N	1:A:411:PRO:HD2	2.32	0.44
1:A:414:LEU:HD23	1:A:414:LEU:H	1.83	0.44
1:A:529:ASP:O	1:A:533:HIS:ND1	2.51	0.44
1:A:664:SER:HB3	1:A:728:SER:CB	2.48	0.44
1:A:850:GLU:O	1:A:854:ARG:HD3	2.18	0.44
1:A:856:VAL:O	1:A:859:LEU:HB2	2.17	0.44
1:A:1141:LYS:HB2	1:A:1141:LYS:HE3	1.83	0.44
1:A:1754:GLN:HE22	1:A:1788:ARG:HH21	1.65	0.44
1:A:1762:MET:SD	1:A:1763:THR:N	2.91	0.44
1:A:1769:GLU:HG2	1:A:1772:HIS:HB2	2.00	0.44
1:A:1915:LEU:HA	1:A:1918:LEU:HD12	1.99	0.44
1:A:2120:ARG:HH22	1:A:2160:TYR:HA	1.81	0.44
1:A:2299:TYR:O	1:A:2303:LEU:HG	2.18	0.44
1:A:2353:GLN:N	1:A:2353:GLN:OE1	2.50	0.44
1:A:2438:ILE:HG22	1:A:2442:MET:HE3	1.99	0.44
1:A:2527:HIS:CE1	1:A:2529:THR:HG23	2.52	0.44
1:A:2864:GLN:HG3	1:A:2865:HIS:CD2	2.52	0.44
1:A:2981:TRP:HB2	1:A:2985:GLU:HA	2.00	0.44
1:A:3492:CYS:O	1:A:3494:GLN:HG2	2.17	0.44
2:B:301:ARG:N	3:C:292:GLU:O	2.45	0.44
3:C:166:PRO:HG2	3:C:167:PHE:CE2	2.53	0.44
3:C:427:MET:SD	3:C:428:GLU:N	2.91	0.44
1:F:383:PHE:HD2	1:F:384:MET:HE2	1.83	0.44
1:F:547:ASP:OD1	1:F:547:ASP:N	2.43	0.44
1:F:687:SER:H	1:F:701:TYR:HE1	1.64	0.44
1:F:996:THR:O	1:F:1044:ILE:HD11	2.18	0.44
1:F:1111:LEU:HD22	1:F:1124:ILE:HG13	1.99	0.44
1:F:1287:GLN:HE22	1:F:1289:SER:HA	1.82	0.44
1:F:1425:ALA:HB3	1:F:1467:ILE:HG23	2.00	0.44
1:F:2327:LEU:HG	1:F:2371:PHE:CG	2.53	0.44
1:F:2505:VAL:HA	1:F:2508:GLN:HB3	1.99	0.44
1:F:2817:LEU:HB3	1:F:2865:HIS:CE1	2.52	0.44
1:F:3012:GLU:HG2	1:F:3048:LYS:HZ1	1.82	0.44
1:F:3101:TYR:HA	1:F:3104:GLN:CD	2.38	0.44
1:F:3495:PHE:HD1	1:F:3498:TRP:HD1	1.64	0.44
1:F:3593:ARG:HA	1:F:3596:LEU:HD23	1.99	0.44
1:F:3879:PRO:HG2	1:F:3882:LEU:HD23	2.00	0.44
1:F:4112:THR:HA	1:F:4117:LEU:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:204:HIS:NE2	2:G:213:ILE:HB	2.33	0.44
2:G:341:ASP:OD1	2:G:341:ASP:N	2.51	0.44
1:A:151:GLU:HG2	1:A:152:LEU:HD22	2.00	0.44
1:A:238:MET:HG2	1:A:281:GLN:C	2.38	0.44
1:A:528:VAL:HG13	1:A:532:ARG:NH2	2.32	0.44
1:A:992:ILE:O	1:A:996:THR:HG23	2.18	0.44
1:A:1909:ASN:HB3	1:A:1913:LYS:HE3	2.00	0.44
1:A:1916:ILE:HB	3:H:728:LEU:HD12	1.99	0.44
1:A:2142:ILE:O	1:A:2146:LEU:HG	2.17	0.44
1:A:2263:LYS:NZ	1:A:2265:PRO:HA	2.33	0.44
1:A:2330:VAL:HB	1:A:2336:ILE:HG13	1.98	0.44
1:A:2357:GLU:O	1:A:2360:PHE:N	2.51	0.44
1:A:2388:LYS:O	1:A:2388:LYS:HD3	2.18	0.44
1:A:3292:GLY:HA2	1:A:3295:GLU:OE2	2.18	0.44
1:A:3367:SER:CB	1:A:3372:LYS:HB2	2.47	0.44
1:A:3494:GLN:HB2	1:A:3495:PHE:CD2	2.52	0.44
1:A:3626:GLY:O	1:A:3630:ARG:N	2.30	0.44
1:A:3632:PHE:O	1:A:3635:THR:HG22	2.18	0.44
1:A:3692:VAL:HA	1:A:3696:ARG:NH2	2.32	0.44
1:A:3815:LEU:HA	1:A:3818:ASN:HB2	2.00	0.44
2:B:221:ILE:H	2:B:221:ILE:HD12	1.82	0.44
2:B:298:THR:HA	3:C:295:TYR:CD1	2.53	0.44
3:C:85:LEU:HD12	3:C:86:PRO:HD2	2.00	0.44
3:C:194:LEU:HD22	3:C:205:LEU:HD11	1.99	0.44
1:F:266:ALA:HB2	1:F:305:ASN:ND2	2.32	0.44
1:F:1298:LEU:HD23	1:F:1367:HIS:CD2	2.46	0.44
1:F:2196:TRP:CB	1:F:2199:LEU:HB2	2.46	0.44
1:F:3029:LYS:HG3	1:F:3074:GLN:CD	2.39	0.44
1:F:3519:GLU:OE2	1:F:3557:ARG:NE	2.50	0.44
1:F:3572:ILE:HA	1:F:3575:LEU:HD12	1.99	0.44
1:F:3719:ILE:HD12	1:F:3719:ILE:H	1.83	0.44
1:F:4084:SER:H	1:F:4088:ASN:HB2	1.82	0.44
2:G:271:VAL:CG1	2:G:370:PRO:CA	2.57	0.44
6:D:32:DT:H6	6:D:32:DT:H2'	1.65	0.44
7:E:36:DA:C8	7:E:37:DT:H71	2.53	0.44
1:A:67:VAL:HA	1:A:70:ARG:NH2	2.33	0.44
1:A:154:SER:O	1:A:157:TYR:HB3	2.17	0.44
1:A:675:ARG:O	1:A:679:LYS:N	2.47	0.44
1:A:944:LYS:HA	1:A:944:LYS:HD2	1.73	0.44
1:A:1436:LEU:HD11	1:A:1490:GLY:O	2.17	0.44
1:A:2576:MET:HE1	1:A:2790:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2944:THR:HG23	1:A:2944:THR:O	2.17	0.44
1:A:2966:SER:O	1:A:2970:LYS:HG2	2.17	0.44
1:A:2993:PHE:O	1:A:2996:LEU:HG	2.18	0.44
1:A:3147:LYS:HD3	1:A:3149:GLY:H	1.83	0.44
1:A:3660:ASN:O	1:A:3663:THR:OG1	2.32	0.44
1:A:3784:ARG:NE	1:A:3784:ARG:HA	2.33	0.44
1:A:4049:ARG:HA	1:A:4052:ALA:HB3	1.99	0.44
2:B:88:TYR:HB2	2:B:146:VAL:HG22	2.00	0.44
2:B:350:PHE:O	3:C:462:SER:HA	2.17	0.44
2:B:514:MET:HA	2:B:517:ARG:CB	2.48	0.44
3:C:35:LYS:HE3	3:C:95:GLU:HA	1.98	0.44
3:C:406:GLY:HA3	3:C:422:VAL:O	2.18	0.44
3:C:492:GLN:O	3:C:496:HIS:HB2	2.18	0.44
3:C:496:HIS:O	3:C:500:HIS:HB2	2.18	0.44
3:C:640:ARG:HG3	3:C:685:LEU:HD11	1.99	0.44
1:F:294:PHE:O	1:F:298:LEU:HD23	2.18	0.44
1:F:397:LEU:O	1:F:437:HIS:NE2	2.42	0.44
1:F:430:VAL:O	1:F:433:PRO:HD2	2.17	0.44
1:F:554:ASN:C	1:F:554:ASN:ND2	2.70	0.44
1:F:781:ASP:OD1	1:F:784:VAL:HG12	2.18	0.44
1:F:867:ASN:OD1	1:F:868:LYS:N	2.51	0.44
1:F:1071:ASN:HB3	1:F:1074:LYS:CG	2.40	0.44
1:F:1082:PHE:HA	1:F:1085:ILE:CG1	2.47	0.44
1:F:1155:ARG:NH2	1:F:3690:PHE:O	2.50	0.44
1:F:1247:PRO:HA	1:F:1314:GLY:HA2	2.00	0.44
1:F:1528:LEU:O	1:F:1532:LEU:HG	2.17	0.44
1:F:1986:ARG:HA	1:F:2184:TYR:HB3	1.99	0.44
1:F:2782:ASP:CG	1:F:2785:ILE:HD11	2.38	0.44
1:F:3264:LYS:HA	1:F:3267:LYS:HE2	2.00	0.44
1:F:3385:LEU:O	1:F:3389:VAL:HG23	2.18	0.44
1:F:3758:LEU:H	1:F:3795:PRO:HB3	1.83	0.44
1:F:3770:VAL:O	1:F:3774:ILE:HG13	2.18	0.44
1:F:3818:ASN:HA	1:F:3825:LYS:NZ	2.32	0.44
1:F:3970:LEU:HD12	1:F:3971:MET:N	2.33	0.44
3:H:527:GLN:HA	3:H:530:LEU:HB3	1.99	0.44
7:E:39:DA:H2'	7:E:40:DT:H71	2.00	0.44
1:A:207:GLN:HA	1:A:207:GLN:HE21	1.83	0.43
1:A:721:TYR:C	1:A:726:LEU:HB2	2.38	0.43
1:A:1057:LYS:HG2	1:A:1061:LYS:NZ	2.33	0.43
1:A:1176:CYS:C	1:A:1178:ARG:H	2.21	0.43
1:A:1324:PRO:HG2	1:A:1325:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1563:PHE:HB3	1:A:1566:THR:HG1	1.83	0.43
1:A:2093:CYS:C	1:A:2096:PRO:HD2	2.38	0.43
1:A:2576:MET:HB2	1:A:2783:ILE:HG22	2.00	0.43
1:A:3327:ASN:HD21	1:A:3387:GLU:HG2	1.83	0.43
1:A:3349:ALA:O	1:A:3357:ARG:NH1	2.51	0.43
1:A:3499:ILE:H	1:A:3499:ILE:HD12	1.83	0.43
1:A:3710:LYS:NZ	1:A:3713:PRO:HG3	2.32	0.43
1:A:4079:ALA:O	1:A:4083:GLY:N	2.51	0.43
1:A:4101:GLU:HA	1:A:4104:VAL:HG22	2.00	0.43
2:B:46:LYS:O	2:B:48:MET:N	2.51	0.43
3:C:233:LYS:HD3	3:C:478:PRO:HG2	2.00	0.43
1:F:78:PHE:HB3	1:F:82:ARG:NH1	2.33	0.43
1:F:726:LEU:HA	1:F:729:CYS:SG	2.58	0.43
1:F:933:LEU:HD11	1:F:2797:VAL:HG11	1.99	0.43
1:F:990:GLN:HA	1:F:2779:ASP:O	2.18	0.43
1:F:1070:PRO:HG3	1:F:3720:ALA:O	2.18	0.43
1:F:1292:LYS:HG3	1:F:1296:PHE:CZ	2.53	0.43
1:F:1366:THR:H	1:F:1369:MET:CE	2.31	0.43
1:F:1487:VAL:HG22	1:F:1559:PHE:CD1	2.53	0.43
1:F:1488:TYR:HA	1:F:1559:PHE:HZ	1.82	0.43
1:F:1590:THR:HG22	1:F:1632:TRP:CZ2	2.53	0.43
1:F:1725:GLN:HG3	1:F:1728:GLU:H	1.82	0.43
1:F:2091:HIS:O	1:F:2094:MET:HE3	2.18	0.43
1:F:2286:PRO:HG2	1:F:2289:ASP:HB2	2.00	0.43
1:F:2451:LEU:O	1:F:2455:LEU:HG	2.17	0.43
1:F:3810:VAL:HG11	1:F:3815:LEU:HD22	2.00	0.43
2:G:461:LYS:HG2	2:G:525:PHE:HB3	1.99	0.43
3:H:11:VAL:N	3:H:133:GLU:OE1	2.43	0.43
3:H:168:SER:O	3:H:194:LEU:HB3	2.18	0.43
3:H:674:PHE:CD1	3:H:676:GLU:HG2	2.53	0.43
1:A:201:LEU:HD12	1:A:202:GLY:N	2.33	0.43
1:A:899:ARG:NH2	1:A:2568:MET:HB3	2.33	0.43
1:A:939:MET:HA	1:A:942:LEU:HD12	2.00	0.43
1:A:1297:PHE:HA	1:A:1300:SER:CB	2.48	0.43
1:A:1497:ARG:NH2	1:A:1541:ALA:HB2	2.33	0.43
1:A:1589:ASN:ND2	1:A:1593:VAL:HG13	2.33	0.43
1:A:1616:LEU:HD12	1:A:1617:LYS:N	2.32	0.43
1:A:1715:GLU:O	1:A:1719:VAL:HG22	2.18	0.43
1:A:1850:VAL:CG1	1:A:1870:LYS:HG2	2.48	0.43
1:A:2368:THR:OG1	1:A:2400:VAL:HG23	2.18	0.43
1:A:2432:GLN:O	1:A:2436:LEU:HD23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2900:LEU:HD23	1:A:2900:LEU:H	1.82	0.43
1:A:3951:GLN:OE1	1:A:3951:GLN:N	2.52	0.43
2:B:328:ILE:HD12	3:C:279:VAL:HG21	1.99	0.43
1:F:393:LYS:HA	1:F:397:LEU:HD23	2.00	0.43
1:F:451:PRO:O	1:F:455:LEU:N	2.51	0.43
1:F:566:ASP:O	1:F:570:LYS:HG2	2.18	0.43
1:F:572:VAL:O	1:F:576:VAL:HG23	2.18	0.43
1:F:723:ASP:C	1:F:725:LEU:H	2.21	0.43
1:F:746:ARG:O	1:F:749:VAL:HG22	2.18	0.43
1:F:1594:SER:O	1:F:1598:ASN:ND2	2.52	0.43
1:F:1922:ALA:O	1:F:1925:GLU:HB2	2.18	0.43
1:F:1925:GLU:OE2	1:F:1927:MET:HB2	2.18	0.43
1:F:2424:MET:HA	1:F:2432:GLN:HE22	1.83	0.43
1:F:2428:ASP:C	1:F:2432:GLN:HG2	2.38	0.43
1:F:2452:ARG:HB3	1:F:2498:ILE:CG1	2.48	0.43
1:F:2453:GLU:HG2	1:F:2454:LEU:HD22	1.99	0.43
1:F:2467:THR:HA	1:F:2470:ARG:HH21	1.82	0.43
1:F:2507:ILE:HG23	1:F:2547:SER:HB2	2.01	0.43
1:F:2820:MET:SD	1:F:2829:LYS:HG2	2.58	0.43
1:F:3252:PHE:O	1:F:3255:ALA:N	2.49	0.43
1:F:3256:MET:SD	1:F:3283:LEU:HD22	2.57	0.43
1:F:3875:GLU:HA	1:F:3878:VAL:HB	1.99	0.43
1:F:3925:LEU:HD23	1:F:3925:LEU:O	2.18	0.43
2:G:48:MET:O	2:G:60:PHE:N	2.51	0.43
2:G:351:LYS:N	2:G:395:ALA:O	2.34	0.43
2:G:415:PRO:HA	2:G:432:PHE:HD1	1.81	0.43
3:H:114:SER:HA	3:H:117:VAL:HG22	2.00	0.43
3:H:405:VAL:HG22	3:H:426:PHE:CZ	2.53	0.43
1:A:938:VAL:O	1:A:942:LEU:HG	2.18	0.43
1:A:1010:LEU:O	1:A:1014:LEU:HG	2.18	0.43
1:A:1866:GLN:O	1:A:1870:LYS:HG3	2.18	0.43
1:A:1892:LYS:O	1:A:1907:GLU:HA	2.18	0.43
1:A:2267:SER:OG	1:A:2268:LYS:N	2.50	0.43
1:A:2363:CYS:SG	1:A:2364:LEU:N	2.90	0.43
1:A:2440:TYR:HB2	1:A:2476:ILE:HD11	2.00	0.43
1:A:2572:TYR:HB3	1:A:2573:PRO:HD3	2.00	0.43
1:A:2944:THR:HA	1:A:2948:GLY:CA	2.45	0.43
1:A:3111:MET:SD	1:A:3112:GLN:N	2.91	0.43
1:A:3192:LYS:O	1:A:3196:LYS:NZ	2.52	0.43
1:A:3681:LYS:NZ	1:A:3726:VAL:HG13	2.32	0.43
1:A:3924:HIS:HD2	1:A:3926:ASN:HB2	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:363:ARG:HB2	2:B:436:PHE:CE2	2.45	0.43
3:C:395:TYR:HB3	3:C:404:GLN:HB2	1.99	0.43
1:F:344:GLN:O	1:F:346:TYR:N	2.51	0.43
1:F:669:LEU:O	1:F:673:THR:HG23	2.18	0.43
1:F:1048:GLN:O	1:F:1052:SER:OG	2.27	0.43
1:F:1282:LEU:HD23	1:F:1282:LEU:H	1.83	0.43
1:F:1634:ALA:N	1:F:1637:SER:OG	2.45	0.43
1:F:1877:LEU:HD12	1:F:1878:ASP:N	2.34	0.43
1:F:2140:LEU:HD12	1:F:2141:ASN:N	2.33	0.43
1:F:3065:ILE:HG12	1:F:3086:LEU:HD11	2.01	0.43
1:F:3571:PHE:HD1	1:F:3686:TRP:HZ3	1.66	0.43
1:F:3575:LEU:HD22	1:F:3752:VAL:HG21	2.00	0.43
1:F:3755:GLY:HA2	1:F:3799:ARG:C	2.38	0.43
1:F:4037:ASN:HB3	1:F:4039:TYR:CE2	2.53	0.43
2:G:372:GLU:OE1	2:G:377:GLY:N	2.43	0.43
2:G:417:GLU:N	2:G:417:GLU:OE1	2.51	0.43
3:H:164:PHE:CE1	3:H:225:TYR:HB3	2.53	0.43
3:H:213:ILE:O	3:H:217:GLY:HA2	2.18	0.43
6:D:18:DA:C4	7:E:39:DA:N1	2.86	0.43
1:A:162:LEU:HD12	2:B:299:LYS:CD	2.48	0.43
1:A:216:LYS:HA	1:A:216:LYS:HE3	2.00	0.43
1:A:394:GLN:HA	1:A:398:THR:HG21	2.00	0.43
1:A:710:PHE:O	1:A:714:VAL:HG22	2.19	0.43
1:A:933:LEU:CD2	1:A:2793:PRO:HB2	2.49	0.43
1:A:1394:HIS:HE1	1:A:1398:VAL:HB	1.83	0.43
1:A:1534:ASN:OD1	1:A:1534:ASN:N	2.51	0.43
1:A:1672:PHE:HD1	1:A:1699:PHE:CE1	2.36	0.43
1:A:1858:LEU:HD11	1:A:1932:GLN:OE1	2.18	0.43
1:A:2097:LEU:HD22	1:A:2149:LEU:HD22	2.00	0.43
1:A:2128:PHE:O	1:A:2132:LYS:HG3	2.19	0.43
1:A:3165:THR:HA	1:A:3168:TYR:CE2	2.54	0.43
1:A:3314:SER:OG	1:A:3317:SER:OG	2.26	0.43
1:A:3369:ASP:OD1	1:A:3369:ASP:N	2.51	0.43
1:A:3591:ASP:HA	1:A:3594:ALA:HB3	2.00	0.43
1:A:3915:HIS:O	1:A:3919:GLY:N	2.50	0.43
1:A:3931:ALA:O	1:A:3935:GLY:N	2.51	0.43
2:B:142:SER:O	2:B:146:VAL:HG23	2.19	0.43
3:C:58:LEU:O	3:C:77:ILE:HA	2.17	0.43
1:F:13:LEU:HD22	1:F:59:PHE:CD1	2.39	0.43
1:F:374:LYS:O	1:F:378:ALA:HB2	2.18	0.43
1:F:1560:TYR:CE1	1:F:1596:VAL:HG12	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1893:GLU:OE2	1:F:1895:LYS:NZ	2.42	0.43
1:F:2147:ALA:HB2	1:F:2171:LEU:HD21	2.00	0.43
1:F:2185:MET:HA	1:F:2188:GLU:HG2	2.01	0.43
1:F:2514:ASN:OD1	1:F:2517:LEU:HG	2.19	0.43
1:F:2553:HIS:CE1	1:F:2557:LEU:HD11	2.54	0.43
1:F:3123:GLN:HA	1:F:3126:LEU:HD13	1.99	0.43
1:F:3340:ALA:O	1:F:3343:SER:OG	2.28	0.43
1:F:3500:SER:HA	1:F:3503:VAL:HG12	2.00	0.43
1:F:3669:LYS:HG3	1:F:3670:MET:SD	2.58	0.43
1:F:3913:ILE:HB	1:F:3984:MET:HG3	1.99	0.43
1:F:4089:ILE:O	1:F:4093:GLU:HG2	2.18	0.43
2:G:161:MET:HE1	2:G:164:LYS:HB3	2.00	0.43
2:G:239:LEU:HA	2:G:242:LEU:HD22	1.99	0.43
2:G:285:PRO:HB3	3:H:312:GLN:HB3	2.00	0.43
2:G:306:SER:HB3	3:H:288:ASP:OD2	2.18	0.43
2:G:339:ARG:HD3	2:G:340:PHE:N	2.33	0.43
3:H:233:LYS:HA	3:H:481:LYS:NZ	2.33	0.43
3:H:529:PRO:O	3:H:533:ILE:HD12	2.18	0.43
4:J:21:DA:C6	5:I:36:DA:N6	2.87	0.43
1:A:173:LYS:O	1:A:176:GLU:HB2	2.19	0.43
1:A:270:ALA:O	1:A:273:ARG:HG2	2.19	0.43
1:A:829:VAL:HG23	1:A:830:VAL:HG23	2.00	0.43
1:A:881:LYS:HG2	1:A:883:TYR:HB2	2.00	0.43
1:A:886:TRP:HZ3	1:A:911:LEU:HB3	1.82	0.43
1:A:1202:ARG:O	1:A:1207:TRP:HB2	2.18	0.43
1:A:2087:GLU:OE1	1:A:2090:ARG:HD3	2.19	0.43
1:A:3236:PHE:CE2	1:A:3272:TRP:HA	2.53	0.43
1:A:3480:LEU:C	1:A:3482:LEU:H	2.21	0.43
1:A:3511:ALA:HB1	1:A:3514:VAL:CG2	2.48	0.43
1:A:3513:ALA:C	1:A:3515:GLN:N	2.70	0.43
1:A:3860:LYS:HD3	1:A:4073:ALA:N	2.34	0.43
1:A:3951:GLN:NE2	1:A:4063:GLU:OE2	2.52	0.43
1:A:4089:ILE:HG23	1:A:4092:GLN:NE2	2.34	0.43
3:C:250:ARG:HH11	3:C:260:ARG:HH12	1.65	0.43
3:C:411:HIS:O	3:C:417:GLU:HB3	2.19	0.43
1:F:188:GLU:HG2	1:F:189:MET:SD	2.58	0.43
1:F:291:VAL:HG13	1:F:344:GLN:NE2	2.34	0.43
1:F:535:LEU:HB3	1:F:637:LYS:HE3	1.99	0.43
1:F:1579:VAL:O	1:F:1583:MET:HB2	2.18	0.43
1:F:1608:ARG:HE	1:F:1608:ARG:HB3	1.65	0.43
1:F:2328:ARG:CD	1:F:2333:ARG:HD3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2824:LYS:HA	1:F:2824:LYS:HD3	1.65	0.43
1:F:3559:LYS:HB2	1:F:3564:GLN:NE2	2.33	0.43
1:F:3766:GLN:O	1:F:3770:VAL:HG23	2.17	0.43
1:F:3822:GLN:HG2	1:F:3823:GLU:N	2.34	0.43
1:F:3982:SER:HB2	1:F:3986:HIS:CE1	2.54	0.43
1:F:4048:LYS:HA	1:F:4051:LEU:HG	2.00	0.43
2:G:76:ILE:HD13	2:G:248:ALA:HA	2.00	0.43
2:G:82:LEU:HD11	2:G:108:LEU:C	2.38	0.43
2:G:468:LYS:HG2	2:G:518:LEU:O	2.19	0.43
3:H:106:ASP:CG	3:H:143:SER:H	2.22	0.43
1:A:101:ALA:N	1:A:102:PRO:HD2	2.34	0.43
1:A:211:ALA:HB1	1:A:215:PRO:O	2.18	0.43
1:A:307:GLU:O	1:A:310:LYS:HE2	2.17	0.43
1:A:312:ALA:O	1:A:316:LEU:HG	2.18	0.43
1:A:377:ASN:HB3	1:A:380:ASP:OD2	2.18	0.43
1:A:452:LYS:O	1:A:455:LEU:HB2	2.18	0.43
1:A:1372:LEU:O	1:A:1375:THR:OG1	2.24	0.43
1:A:1901:HIS:ND1	1:A:1903:SER:OG	2.47	0.43
1:A:1938:ARG:HA	1:A:1941:HIS:ND1	2.33	0.43
1:A:2238:ILE:HA	1:A:2241:LEU:HB2	2.01	0.43
1:A:2258:GLU:HA	1:A:2261:SER:CB	2.49	0.43
1:A:2306:ASN:HA	1:A:2309:PHE:CZ	2.54	0.43
1:A:2918:PRO:O	1:A:2921:LEU:HB3	2.19	0.43
1:A:3531:TYR:OH	1:A:3568:ILE:HD11	2.18	0.43
1:A:3762:GLN:HG2	1:A:3795:PRO:HD3	2.00	0.43
2:B:239:LEU:HA	2:B:242:LEU:HD12	2.00	0.43
2:B:256:LEU:HD23	2:B:256:LEU:H	1.83	0.43
3:C:70:GLY:HA3	3:C:74:TYR:CE2	2.53	0.43
3:C:312:GLN:O	3:C:323:PHE:HB2	2.17	0.43
3:C:626:THR:HG23	3:C:632:PHE:CE2	2.54	0.43
1:F:22:ALA:CB	1:F:34:LEU:HD21	2.49	0.43
1:F:152:LEU:HD13	1:F:155:LYS:HE3	2.00	0.43
1:F:726:LEU:O	1:F:729:CYS:HB2	2.18	0.43
1:F:854:ARG:HA	1:F:857:GLN:NE2	2.33	0.43
1:F:886:TRP:HE1	1:F:912:PRO:HB3	1.84	0.43
1:F:894:PHE:HB2	1:F:940:PHE:CE2	2.53	0.43
1:F:932:GLU:O	1:F:936:SER:N	2.49	0.43
1:F:1102:GLU:HG2	1:F:1152:ARG:CG	2.47	0.43
1:F:1157:PHE:CD1	1:F:1159:PRO:HD2	2.54	0.43
1:F:1333:SER:O	1:F:1337:VAL:HG23	2.18	0.43
1:F:1377:CYS:SG	1:F:1378:GLU:N	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1489:LYS:HD2	1:F:1495:ASP:HB3	1.99	0.43
1:F:2139:PRO:O	1:F:2143:ARG:HG3	2.18	0.43
1:F:2203:THR:HB	1:F:2248:CYS:SG	2.58	0.43
1:F:2560:ASN:ND2	1:F:2795:GLN:HB2	2.34	0.43
1:F:2991:LYS:HA	1:F:2994:TRP:CD2	2.54	0.43
1:F:3060:SER:O	1:F:3063:THR:HB	2.17	0.43
1:F:3613:MET:HB3	1:F:3640:PHE:HE1	1.83	0.43
1:F:3830:SER:HA	1:F:3833:ARG:NH1	2.34	0.43
2:G:77:SER:HA	2:G:249:LYS:O	2.17	0.43
2:G:214:SER:HB3	2:G:218:ARG:HG2	1.99	0.43
2:G:413:LEU:HD11	2:G:432:PHE:HB3	2.01	0.43
1:A:131:LEU:HD21	1:A:173:LYS:HG2	2.00	0.43
1:A:183:GLU:OE2	1:A:185:HIS:HA	2.18	0.43
1:A:230:LEU:HB3	1:A:234:PHE:CZ	2.54	0.43
1:A:723:ASP:C	1:A:725:LEU:H	2.22	0.43
1:A:900:GLU:O	1:A:902:LYS:HD3	2.19	0.43
1:A:939:MET:HE2	1:A:2783:ILE:HG12	2.00	0.43
1:A:1009:LEU:HA	1:A:1012:ALA:HB3	2.01	0.43
1:A:1208:LEU:O	1:A:1211:VAL:HG22	2.18	0.43
1:A:1334:LYS:HE2	1:A:1383:GLY:H	1.84	0.43
1:A:1835:ALA:HA	1:A:1838:GLU:OE2	2.19	0.43
1:A:1891:ALA:HB1	1:A:1895:LYS:H	1.83	0.43
1:A:2368:THR:HA	1:A:2371:PHE:O	2.19	0.43
1:A:2494:ASP:O	1:A:2497:GLU:HG3	2.19	0.43
1:A:2540:LEU:HD13	1:A:2543:ASN:ND2	2.26	0.43
1:A:2780:LEU:HD12	1:A:2781:PRO:HD2	2.01	0.43
1:A:2952:ILE:CG1	1:A:2971:GLN:HB3	2.49	0.43
1:A:3008:TRP:O	1:A:3011:LEU:N	2.52	0.43
1:A:3126:LEU:O	1:A:3129:LEU:HB3	2.18	0.43
1:A:3769:GLN:OE1	1:A:3790:THR:HB	2.18	0.43
1:A:3835:PRO:HG3	1:A:4127:TRP:HZ2	1.84	0.43
1:A:3963:LEU:HA	1:A:3967:PHE:HE2	1.84	0.43
2:B:82:LEU:HD11	2:B:108:LEU:C	2.39	0.43
2:B:414:VAL:CG1	2:B:433:GLN:HB3	2.48	0.43
3:C:104:GLN:O	3:C:141:ARG:NH2	2.51	0.43
3:C:166:PRO:HA	3:C:227:PHE:H	1.84	0.43
3:C:484:ASN:HB3	3:C:487:PHE:CD2	2.54	0.43
3:C:569:THR:O	3:C:570:GLU:HB2	2.18	0.43
3:C:689:GLU:O	3:C:696:VAL:HG21	2.18	0.43
1:F:73:LEU:O	1:F:75:SER:N	2.43	0.43
1:F:317:GLU:CG	1:F:364:ARG:HH22	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:854:ARG:HA	1:F:857:GLN:HG2	2.00	0.43
1:F:1093:GLU:HA	1:F:1096:VAL:HG22	2.01	0.43
1:F:1305:ASP:OD1	1:F:1305:ASP:N	2.51	0.43
1:F:1418:HIS:HA	1:F:1421:GLU:HG2	2.01	0.43
1:F:1577:LEU:O	1:F:1580:LEU:N	2.52	0.43
1:F:1673:THR:HA	1:F:1676:ILE:HD12	2.01	0.43
1:F:1700:THR:HG21	1:F:1757:MET:SD	2.58	0.43
1:F:1971:PRO:C	1:F:1973:LYS:H	2.20	0.43
1:F:2459:VAL:HG21	1:F:2505:VAL:CG1	2.49	0.43
1:F:3076:ALA:HA	1:F:3079:GLU:HG3	2.00	0.43
1:F:3081:HIS:HB2	1:F:3082:TYR:CE2	2.54	0.43
1:F:3828:TYR:CE2	1:F:3879:PRO:HD3	2.48	0.43
2:G:239:LEU:O	2:G:242:LEU:HB2	2.19	0.43
3:H:81:ARG:HD3	3:H:82:HIS:O	2.19	0.43
3:H:599:ARG:HD2	3:H:638:CYS:HB2	2.01	0.43
3:H:656:ASN:HA	3:H:688:LYS:NZ	2.34	0.43
4:J:25:DT:H2"	4:J:26:DT:C6	2.53	0.43
6:D:22:DG:C2	7:E:35:DT:O2	2.72	0.43
1:A:292:SER:HA	1:A:295:GLU:OE2	2.18	0.43
1:A:371:GLY:O	1:A:375:VAL:HG12	2.17	0.43
1:A:397:LEU:HB2	1:A:441:MET:HE3	2.01	0.43
1:A:490:ILE:HD12	1:A:629:PHE:CE2	2.54	0.43
1:A:793:LEU:HB3	1:A:870:LEU:CB	2.39	0.43
1:A:1821:ASP:HA	1:A:1825:LEU:CD1	2.49	0.43
1:A:2402:LEU:HD22	1:A:2434:VAL:HB	2.01	0.43
1:A:2939:LEU:CA	1:A:2942:ILE:HG22	2.49	0.43
1:A:3499:ILE:HG21	1:A:3529:ILE:HD12	2.01	0.43
1:A:3681:LYS:HZ1	1:A:3726:VAL:H	1.66	0.43
1:A:4014:LYS:HA	1:A:4017:GLU:OE1	2.18	0.43
1:A:4069:GLU:N	1:A:4069:GLU:OE1	2.51	0.43
2:B:58:THR:O	2:B:62:MET:HG3	2.19	0.43
2:B:274:TYR:HB2	2:B:367:PHE:HD2	1.83	0.43
2:B:415:PRO:HB3	2:B:432:PHE:CE1	2.54	0.43
3:C:262:ALA:HB3	3:C:368:ARG:NH1	2.34	0.43
3:C:294:VAL:O	3:C:295:TYR:HD1	2.02	0.43
3:C:528:ILE:HB	3:C:529:PRO:HD3	2.00	0.43
3:C:658:PHE:O	3:C:662:LEU:HG	2.19	0.43
1:F:67:VAL:HA	1:F:70:ARG:CZ	2.49	0.43
1:F:135:LEU:HD23	1:F:138:PHE:CD2	2.53	0.43
1:F:186:PRO:HG2	1:F:188:GLU:OE2	2.18	0.43
1:F:292:SER:HA	1:F:295:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:352:VAL:HG12	1:F:1731:PRO:O	2.19	0.43
1:F:665:GLY:O	1:F:669:LEU:HG	2.19	0.43
1:F:764:PRO:O	1:F:768:VAL:HG22	2.18	0.43
1:F:888:ARG:NH2	1:F:3819:THR:HG22	2.34	0.43
1:F:901:MET:N	1:F:901:MET:SD	2.92	0.43
1:F:1645:VAL:O	1:F:1649:LEU:HG	2.19	0.43
1:F:1718:ILE:O	1:F:1722:PHE:HD1	2.02	0.43
1:F:2161:ALA:HB1	1:F:2196:TRP:CZ2	2.54	0.43
1:F:2353:GLN:HA	1:F:2356:MET:HG3	2.00	0.43
1:F:2466:SER:C	1:F:2468:THR:H	2.22	0.43
1:F:2536:LEU:HA	1:F:2539:LEU:HD13	2.00	0.43
1:F:2791:ILE:HA	1:F:2794:LEU:CD1	2.49	0.43
1:F:2859:GLN:HE21	1:F:2888:VAL:HG13	1.84	0.43
1:F:3154:GLN:O	1:F:3157:LEU:HB2	2.19	0.43
1:F:3486:GLU:C	1:F:3488:SER:N	2.71	0.43
1:F:3931:ALA:HB1	1:F:3933:GLU:CD	2.39	0.43
5:I:35:DT:C2'	5:I:36:DA:H5'	2.48	0.43
5:I:37:DT:H2'	5:I:38:DT:C4	2.53	0.43
1:A:170:VAL:HG23	6:D:21:DA:H5'	2.01	0.43
1:A:309:LYS:HD3	1:A:309:LYS:N	2.34	0.43
1:A:407:VAL:C	1:A:449:TYR:CE2	2.91	0.43
1:A:850:GLU:O	1:A:853:ILE:HB	2.18	0.43
1:A:881:LYS:NZ	1:A:884:VAL:HA	2.34	0.43
1:A:901:MET:N	1:A:901:MET:SD	2.91	0.43
1:A:934:LEU:O	1:A:938:VAL:HG13	2.19	0.43
1:A:1058:SER:HA	1:A:1061:LYS:NZ	2.34	0.43
1:A:1105:VAL:CG1	1:A:1156:GLY:HA3	2.48	0.43
1:A:1202:ARG:CZ	1:A:1207:TRP:CD1	3.02	0.43
1:A:1526:GLU:HG2	1:A:1527:ARG:N	2.34	0.43
1:A:2100:LEU:HA	1:A:2103:HIS:HB3	2.01	0.43
1:A:2213:ASN:HD21	1:A:2249:LEU:HA	1.84	0.43
1:A:2396:LEU:O	1:A:2400:VAL:HG12	2.18	0.43
1:A:2405:VAL:HG13	1:A:2406:GLU:HG2	2.01	0.43
1:A:2919:ASP:O	1:A:2922:ARG:HG2	2.18	0.43
1:A:3047:SER:O	1:A:3051:LEU:HB2	2.19	0.43
1:A:3183:ILE:HD13	1:A:3186:ARG:HH21	1.83	0.43
1:A:3247:ARG:NH1	1:A:3282:ARG:HB2	2.34	0.43
1:A:3513:ALA:C	1:A:3515:GLN:H	2.22	0.43
1:A:3863:ASN:O	1:A:3867:THR:HG23	2.19	0.43
1:A:3889:ARG:HD2	1:A:3889:ARG:HA	1.78	0.43
1:A:3918:LEU:HB3	1:A:3920:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4007:LYS:HA	1:A:4007:LYS:HE3	2.00	0.43
3:C:72:ASP:O	3:C:75:GLN:HG2	2.19	0.43
3:C:280:ASP:OD2	3:C:282:LYS:NZ	2.44	0.43
3:C:668:ILE:HG13	3:C:669:LYS:H	1.84	0.43
1:F:264:ARG:NH1	5:I:39:DA:H4'	2.33	0.43
1:F:848:LEU:HD23	1:F:848:LEU:H	1.84	0.43
1:F:1172:LEU:HD11	1:F:1187:SER:HB2	2.00	0.43
1:F:3361:GLU:OE1	1:F:3367:SER:N	2.37	0.43
1:F:3389:VAL:HG13	1:F:3413:TYR:HE1	1.83	0.43
3:H:45:GLN:HA	3:H:50:ASN:OD1	2.18	0.43
1:A:461:ILE:HG23	1:A:465:PHE:CE2	2.54	0.43
1:A:901:MET:HG3	1:A:2819:GLU:HG2	2.00	0.43
1:A:1065:SER:O	1:A:1068:LEU:HG	2.18	0.43
1:A:1348:LEU:HB3	1:A:1359:LEU:HD13	2.00	0.43
1:A:2295:GLN:NE2	1:A:2298:GLU:H	2.17	0.43
1:A:2319:ALA:O	1:A:2323:LEU:HD23	2.18	0.43
1:A:2575:PRO:O	1:A:2787:HIS:NE2	2.52	0.43
1:A:2851:PHE:HB3	1:A:2854:PHE:HB2	2.01	0.43
1:A:3059:GLN:HA	1:A:3062:LEU:HB3	2.00	0.43
1:A:3098:ARG:HD3	1:A:3102:TYR:CE1	2.53	0.43
1:A:3263:HIS:HB2	1:A:3276:TRP:NE1	2.34	0.43
1:A:3912:CYS:HB3	1:A:3961:PHE:CD2	2.54	0.43
2:B:312:LEU:HB2	2:B:315:ASP:CG	2.40	0.43
2:B:347:LEU:HD11	2:B:396:ALA:HB1	2.01	0.43
2:B:365:SER:OG	2:B:366:LEU:N	2.51	0.43
2:B:480:ASN:ND2	2:B:483:LEU:HB2	2.33	0.43
3:C:64:THR:HB	3:C:76:ASN:H	1.84	0.43
3:C:109:ASP:O	3:C:113:VAL:HG23	2.18	0.43
3:C:357:MET:CE	3:C:425:PRO:HA	2.48	0.43
3:C:553:ILE:HG23	3:C:555:GLN:O	2.19	0.43
1:F:225:LYS:HD2	1:F:270:ALA:HB3	2.00	0.43
1:F:897:PRO:HG3	1:F:2787:HIS:CD2	2.54	0.43
1:F:930:ALA:HA	1:F:933:LEU:HD12	2.00	0.43
1:F:932:GLU:CG	1:F:2773:ARG:HH21	2.32	0.43
1:F:1614:GLN:H	1:F:1614:GLN:CD	2.21	0.43
1:F:2214:ARG:HH12	1:F:2215:LEU:CD2	2.31	0.43
1:F:2295:GLN:CB	1:F:2298:GLU:HG2	2.49	0.43
1:F:2886:GLN:O	1:F:2890:ILE:N	2.41	0.43
1:F:3149:GLY:O	1:F:3152:SER:OG	2.27	0.43
1:F:3527:GLN:NE2	1:F:3705:TYR:OH	2.52	0.43
2:G:203:MET:HE2	2:G:239:LEU:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:247:TRP:NE1	3:H:338:LYS:HD2	2.34	0.43
3:H:679:VAL:O	3:H:683:ILE:HG12	2.19	0.43
5:I:18:DG:N2	5:I:19:DC:N3	2.67	0.43
1:A:309:LYS:HA	1:A:312:ALA:HB3	2.01	0.42
1:A:730:LEU:O	1:A:733:LEU:HB2	2.18	0.42
1:A:994:TRP:HZ3	1:A:2582:SER:HB2	1.84	0.42
1:A:1148:ALA:HB1	1:A:1162:SER:HB3	2.01	0.42
1:A:1150:LYS:NZ	1:A:1162:SER:HB2	2.34	0.42
1:A:1236:LEU:O	1:A:1239:PRO:HD3	2.18	0.42
1:A:1711:ARG:HG3	1:A:1712:ARG:N	2.33	0.42
1:A:1983:ASP:OD2	1:A:2183:HIS:ND1	2.52	0.42
1:A:2091:HIS:CE1	1:A:2094:MET:N	2.87	0.42
1:A:2442:MET:SD	1:A:2442:MET:N	2.92	0.42
1:A:2803:ILE:HG23	1:A:2807:GLN:HE22	1.83	0.42
1:A:2828:GLU:O	1:A:2832:ILE:HG13	2.19	0.42
1:A:2850:PHE:CD2	1:A:2882:ALA:HB3	2.53	0.42
1:A:3185:ASN:HB3	1:A:3189:PHE:CZ	2.54	0.42
1:A:4006:VAL:HG13	1:A:4007:LYS:HD2	2.01	0.42
2:B:303:PHE:O	3:C:290:GLN:N	2.52	0.42
2:B:399:ARG:HB3	2:B:410:PHE:HD1	1.84	0.42
2:B:400:TYR:OH	2:B:402:PRO:HA	2.18	0.42
3:C:194:LEU:O	3:C:202:LYS:HG2	2.18	0.42
3:C:437:SER:HB2	3:C:440:ASN:HD21	1.84	0.42
3:C:671:LEU:HB2	3:C:674:PHE:CE1	2.53	0.42
1:F:261:ASP:N	1:F:261:ASP:OD1	2.50	0.42
1:F:304:THR:HA	1:F:309:LYS:NZ	2.34	0.42
1:F:1039:TRP:HB3	1:F:1043:GLN:NE2	2.34	0.42
1:F:1268:ASN:OD1	1:F:1344:PHE:HA	2.19	0.42
1:F:2382:VAL:HA	1:F:2385:LEU:HG	2.01	0.42
1:F:2409:THR:HA	1:F:2445:LYS:HE3	2.01	0.42
1:F:2819:GLU:HA	1:F:2822:LYS:NZ	2.34	0.42
1:F:3270:ASP:HA	1:F:3273:LEU:HB3	2.01	0.42
1:F:3319:ASN:OD1	1:F:3322:ALA:N	2.51	0.42
1:F:3496:ILE:HD12	1:F:3496:ILE:H	1.84	0.42
1:F:3550:LYS:HE2	1:F:3550:LYS:HB2	1.83	0.42
1:F:3602:ASN:HB2	1:F:3651:LEU:HD13	2.01	0.42
1:F:3693:GLU:HG3	1:F:3695:LEU:H	1.84	0.42
1:F:3917:ILE:HD12	1:F:3917:ILE:HA	1.90	0.42
1:F:3953:LEU:HD11	1:F:4027:TRP:HB2	2.01	0.42
2:G:409:TYR:HB3	2:G:436:PHE:CE1	2.54	0.42
3:H:594:PRO:HA	3:H:597:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:E:28:DT:H2'	7:E:29:DA:C8	2.54	0.42
1:A:235:THR:OG1	1:A:236:LYS:N	2.52	0.42
1:A:322:GLN:C	1:A:324:SER:H	2.21	0.42
1:A:531:PHE:N	1:A:531:PHE:CD1	2.84	0.42
1:A:568:PHE:C	1:A:572:VAL:HG23	2.39	0.42
1:A:898:PHE:C	1:A:902:LYS:HZ2	2.22	0.42
1:A:963:LYS:HG3	1:A:964:ARG:HD2	2.02	0.42
1:A:1220:LEU:HD22	1:A:1224:PHE:CZ	2.54	0.42
1:A:1820:VAL:O	1:A:1825:LEU:HG	2.19	0.42
1:A:1884:LEU:HD12	1:A:1885:PRO:HD2	1.99	0.42
1:A:1959:LEU:HA	1:A:1961:PHE:CE2	2.54	0.42
1:A:2106:ARG:HA	1:A:2106:ARG:NH1	2.34	0.42
1:A:2136:PRO:HG2	1:A:2137:ILE:HD12	2.01	0.42
1:A:2538:ARG:HG2	1:A:2565:MET:SD	2.59	0.42
1:A:3026:ASP:OD1	1:A:3026:ASP:N	2.51	0.42
1:A:3271:ASP:N	1:A:3271:ASP:OD1	2.49	0.42
1:A:3822:GLN:HA	1:A:3825:LYS:HB3	2.01	0.42
2:B:182:LYS:HG2	2:B:185:ARG:NH2	2.34	0.42
3:C:523:THR:O	3:C:527:GLN:HG2	2.20	0.42
1:F:70:ARG:HB2	1:F:78:PHE:CD2	2.54	0.42
1:F:332:GLU:CD	1:F:334:HIS:HA	2.40	0.42
1:F:338:LEU:HB2	3:H:567:LEU:HD23	2.00	0.42
1:F:632:GLU:OE1	1:F:632:GLU:N	2.46	0.42
1:F:1023:SER:O	1:F:1027:ASP:N	2.51	0.42
1:F:1047:GLN:HA	1:F:1050:GLU:OE1	2.19	0.42
1:F:1147:LYS:HB2	1:F:1149:LYS:NZ	2.34	0.42
1:F:1172:LEU:HG	1:F:1176:CYS:SG	2.59	0.42
1:F:1418:HIS:HA	1:F:1421:GLU:CD	2.40	0.42
1:F:2146:LEU:HA	1:F:2149:LEU:HD12	2.00	0.42
1:F:3012:GLU:HG2	1:F:3048:LYS:NZ	2.34	0.42
1:F:3298:LEU:HD21	1:F:3333:THR:OG1	2.18	0.42
1:F:3315:TYR:HA	1:F:3318:LYS:HB2	2.00	0.42
1:F:3614:TYR:HB2	1:F:3648:GLY:HA3	2.00	0.42
1:F:3646:LYS:HG3	1:F:3650:LYS:HZ1	1.85	0.42
1:F:3878:VAL:HG21	1:F:4127:TRP:O	2.19	0.42
1:F:3952:PHE:CE2	1:F:4036:LYS:HB2	2.54	0.42
2:G:49:PHE:HB2	2:G:137:HIS:CE1	2.54	0.42
3:H:646:ALA:HB1	3:H:651:GLU:HB2	2.01	0.42
4:J:22:DG:N2	4:J:23:DT:C2	2.87	0.42
4:J:32:DT:H6	4:J:32:DT:H2'	1.58	0.42
6:D:16:DA:C6	7:E:42:DA:C2	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D:19:DA:C6	6:D:20:DT:N3	2.87	0.42
1:A:493:LYS:NZ	1:A:522:PRO:HD3	2.33	0.42
1:A:1139:GLU:HB2	1:A:1140:LYS:NZ	2.31	0.42
1:A:1301:ILE:HG23	1:A:1330:TYR:OH	2.18	0.42
1:A:1661:PHE:HA	1:A:1665:HIS:HD1	1.85	0.42
1:A:1766:LEU:HG	1:A:1822:ARG:HD2	2.01	0.42
1:A:1886:LYS:HD2	1:A:1954:CYS:O	2.19	0.42
1:A:2228:ARG:HG2	1:A:2231:PHE:HD2	1.84	0.42
1:A:2420:PHE:O	1:A:2423:VAL:HB	2.19	0.42
1:A:2931:ARG:HH22	1:A:2939:LEU:HD11	1.84	0.42
1:A:3809:THR:HA	1:A:3930:VAL:O	2.20	0.42
1:A:3960:PRO:HG2	1:A:3961:PHE:CE2	2.54	0.42
2:B:259:LEU:HG	2:B:260:LYS:H	1.83	0.42
3:C:167:PHE:CZ	3:C:197:ILE:HD13	2.55	0.42
1:F:385:TYR:HD2	1:F:420:VAL:HG22	1.84	0.42
1:F:433:PRO:HB3	1:F:6018:UNK:HA	2.01	0.42
1:F:748:TYR:O	1:F:752:LEU:HG	2.19	0.42
1:F:992:ILE:HG23	1:F:1036:PHE:HD1	1.85	0.42
1:F:1448:LEU:O	1:F:1452:VAL:HG23	2.18	0.42
1:F:1554:SER:N	1:F:1557:GLU:OE2	2.39	0.42
1:F:1642:LYS:O	1:F:1646:LEU:HD23	2.19	0.42
1:F:1708:GLU:O	1:F:1712:ARG:HG2	2.19	0.42
1:F:2425:ARG:HA	1:F:2425:ARG:HD3	1.77	0.42
1:F:2511:ILE:HD11	1:F:2550:ILE:HG23	2.00	0.42
1:F:2567:SER:HA	1:F:2572:TYR:CG	2.54	0.42
1:F:2848:PHE:CG	1:F:2849:SER:N	2.87	0.42
1:F:3176:MET:HE1	1:F:3245:SER:HB2	2.01	0.42
1:F:3246:ALA:O	1:F:3250:ASN:N	2.51	0.42
1:F:3263:HIS:HB2	1:F:3276:TRP:CZ2	2.54	0.42
1:F:3287:ARG:HA	1:F:3289:ARG:NH1	2.34	0.42
1:F:3495:PHE:HD1	1:F:3498:TRP:CD1	2.35	0.42
1:F:3791:TYR:HB2	1:F:3804:GLU:HG2	2.01	0.42
1:F:3964:THR:HG22	1:F:3967:PHE:CE2	2.54	0.42
1:F:4109:ASP:HA	1:F:4112:THR:HG22	2.02	0.42
2:G:254:ARG:N	3:H:433:TYR:HE2	2.18	0.42
2:G:330:GLU:CD	2:G:332:GLU:H	2.22	0.42
2:G:415:PRO:HA	2:G:432:PHE:CD1	2.54	0.42
2:G:471:PHE:CE1	2:G:506:LEU:HD21	2.54	0.42
1:A:606:SER:HB2	1:A:1080:LEU:HD11	2.00	0.42
1:A:671:SER:O	1:A:674:VAL:HG12	2.18	0.42
1:A:1149:LYS:H	1:A:1163:LEU:N	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1188:ILE:HG13	1:A:1189:GLU:H	1.84	0.42
1:A:1331:ASN:OD1	1:A:1334:LYS:NZ	2.52	0.42
1:A:1468:LEU:HD13	1:A:1521:PHE:CZ	2.54	0.42
1:A:1640:GLU:OE1	1:A:1640:GLU:N	2.39	0.42
1:A:1840:PHE:CE1	1:A:1896:ILE:HG23	2.54	0.42
1:A:2234:ASN:O	1:A:2238:ILE:HD12	2.20	0.42
1:A:2269:ASP:C	1:A:2271:SER:H	2.22	0.42
1:A:2372:PRO:HB3	1:A:2404:ARG:CZ	2.49	0.42
1:A:2466:SER:C	1:A:2468:THR:H	2.23	0.42
1:A:2954:GLN:HA	1:A:2957:LEU:CB	2.48	0.42
1:A:3190:LEU:HD23	1:A:3235:LYS:HG2	2.01	0.42
1:A:3228:SER:O	1:A:3232:ARG:HG3	2.20	0.42
1:A:3315:TYR:CE1	1:A:3323:PHE:HD1	2.37	0.42
1:A:4007:LYS:HZ3	1:A:4044:ILE:HD13	1.84	0.42
3:C:165:LEU:HD22	3:C:205:LEU:HD12	2.01	0.42
1:F:164:LYS:HD3	5:I:29:DA:H3'	1.99	0.42
1:F:341:PHE:O	1:F:345:PHE:N	2.52	0.42
1:F:1150:LYS:HD2	1:F:1150:LYS:HA	1.84	0.42
1:F:1407:LYS:NZ	1:F:1463:LEU:HD21	2.34	0.42
1:F:1560:TYR:HA	1:F:1567:ILE:HD12	2.01	0.42
1:F:1563:PHE:HB3	1:F:1566:THR:OG1	2.20	0.42
1:F:1684:LEU:HD12	1:F:1684:LEU:H	1.85	0.42
1:F:2499:PHE:O	1:F:2503:LYS:HG2	2.18	0.42
1:F:3077:ILE:HA	1:F:3080:LEU:HG	2.02	0.42
1:F:3088:LEU:O	1:F:3091:LEU:HB3	2.19	0.42
1:F:3107:ILE:HD12	1:F:3107:ILE:H	1.83	0.42
1:F:3264:LYS:HA	1:F:3267:LYS:HZ3	1.85	0.42
1:F:3588:TRP:HE1	1:F:3610:TYR:HA	1.84	0.42
1:F:3924:HIS:N	1:F:3927:ASN:OD1	2.52	0.42
3:H:130:ARG:HB3	3:H:159:ILE:HG23	2.00	0.42
3:H:596:GLU:OE1	3:H:600:VAL:HG13	2.19	0.42
1:A:30:ALA:O	1:A:33:GLN:HG2	2.20	0.42
1:A:50:VAL:HG12	1:A:51:LEU:CD2	2.49	0.42
1:A:338:LEU:O	1:A:342:MET:HG2	2.18	0.42
1:A:656:GLN:HG2	1:A:666:PHE:HE2	1.84	0.42
1:A:1206:LEU:HA	1:A:1209:LYS:HG2	2.00	0.42
1:A:1224:PHE:CD2	1:A:1267:TYR:HE1	2.38	0.42
1:A:1239:PRO:HA	1:A:1256:TRP:CH2	2.55	0.42
1:A:1388:ASP:N	1:A:1388:ASP:OD1	2.52	0.42
1:A:1560:TYR:OH	1:A:1596:VAL:HA	2.20	0.42
1:A:2228:ARG:O	1:A:2228:ARG:HD2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2251:ILE:HB	1:A:2253:TYR:CE2	2.54	0.42
1:A:2362:VAL:HG12	1:A:2396:LEU:HG	2.02	0.42
1:A:3130:GLN:NE2	1:A:3175:PRO:HD2	2.33	0.42
1:A:3480:LEU:C	1:A:3482:LEU:N	2.73	0.42
1:A:3493:TRP:HB3	1:A:3711:PRO:HD3	2.01	0.42
1:A:3572:ILE:O	1:A:3575:LEU:HB2	2.20	0.42
1:A:3690:PHE:HE2	1:A:3721:GLY:HA2	1.83	0.42
1:A:3699:LEU:O	1:A:3719:ILE:HG12	2.20	0.42
1:A:3965:ARG:O	1:A:3968:ILE:HG22	2.19	0.42
1:A:4085:LYS:NZ	1:A:4092:GLN:HB2	2.34	0.42
2:B:71:TYR:CE2	2:B:116:ILE:HG13	2.54	0.42
3:C:297:LEU:O	3:C:302:GLU:HA	2.20	0.42
3:C:459:ASP:OD1	3:C:460:SER:N	2.53	0.42
1:F:175:TYR:O	1:F:227:LEU:HD21	2.19	0.42
1:F:542:ASP:N	1:F:542:ASP:OD1	2.51	0.42
1:F:622:ALA:O	1:F:625:ASN:HB2	2.19	0.42
1:F:913:ARG:NH1	1:F:2803:ILE:HG21	2.34	0.42
1:F:1086:TYR:HE1	1:F:1137:ILE:HG13	1.84	0.42
1:F:1476:HIS:ND1	1:F:1522:GLY:O	2.51	0.42
1:F:3108:GLN:O	1:F:3111:MET:N	2.53	0.42
1:F:3577:GLN:HE21	1:F:3625:LEU:HA	1.84	0.42
1:F:3750:PHE:CD1	1:F:3804:GLU:HA	2.55	0.42
1:F:3872:ARG:HA	1:F:3875:GLU:OE1	2.19	0.42
1:F:3874:ARG:HH22	1:F:4118:GLY:HA2	1.84	0.42
1:F:4078:VAL:HG12	1:F:4082:ARG:HH21	1.84	0.42
2:G:126:GLN:HG2	2:G:130:ARG:NH1	2.34	0.42
2:G:161:MET:HE2	2:G:164:LYS:HD3	2.01	0.42
2:G:261:LEU:CG	2:G:271:VAL:HG21	2.49	0.42
2:G:441:ASP:OD2	3:H:484:ASN:ND2	2.44	0.42
3:H:269:GLN:OE1	3:H:271:ARG:NH2	2.44	0.42
1:A:200:PHE:O	1:A:204:LEU:HD23	2.20	0.42
1:A:555:SER:OG	1:A:557:SER:OG	2.24	0.42
1:A:855:VAL:O	1:A:858:MET:HG3	2.18	0.42
1:A:991:LEU:O	1:A:994:TRP:HB3	2.20	0.42
1:A:1407:LYS:HA	1:A:1407:LYS:HD2	1.81	0.42
1:A:1593:VAL:HA	1:A:1596:VAL:HG22	2.01	0.42
1:A:1639:LEU:HD23	1:A:1640:GLU:OE1	2.20	0.42
1:A:1710:LEU:O	1:A:1713:VAL:HG22	2.20	0.42
1:A:2365:ASN:HB3	1:A:2366:LYS:HZ3	1.81	0.42
1:A:2448:PRO:HG3	1:A:2484:TYR:OH	2.20	0.42
1:A:2974:GLU:OE2	1:A:2978:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3069:MET:SD	1:A:3070:HIS:N	2.92	0.42
1:A:3538:GLU:HG3	1:A:3798:SER:HB3	2.01	0.42
1:A:3562:LEU:HD23	1:A:3562:LEU:H	1.85	0.42
1:A:3817:LEU:O	1:A:3822:GLN:HB3	2.19	0.42
2:B:67:ILE:HG13	2:B:68:GLN:N	2.34	0.42
3:C:490:LEU:O	3:C:494:LEU:HG	2.19	0.42
3:C:599:ARG:HE	3:C:602:VAL:HG21	1.85	0.42
1:F:22:ALA:HB3	1:F:34:LEU:CD2	2.49	0.42
1:F:70:ARG:HH21	1:F:82:ARG:CG	2.32	0.42
1:F:153:PHE:CD1	1:F:178:LEU:HD11	2.51	0.42
1:F:209:THR:HG23	2:G:332:GLU:OE2	2.19	0.42
1:F:998:ASN:HA	1:F:1001:PHE:HB2	2.02	0.42
1:F:1000:LYS:HE2	1:F:1004:GLN:HB3	2.02	0.42
1:F:1006:THR:HA	1:F:1009:LEU:HD12	2.00	0.42
1:F:1202:ARG:NH1	1:F:1210:ASP:OD2	2.53	0.42
1:F:1327:GLY:O	1:F:1330:TYR:HB3	2.19	0.42
1:F:1718:ILE:HG13	1:F:1719:VAL:N	2.35	0.42
1:F:2231:PHE:HA	1:F:2234:ASN:HD21	1.84	0.42
1:F:2485:ARG:HA	1:F:2499:PHE:CE1	2.54	0.42
1:F:2928:LYS:HA	1:F:2928:LYS:HD3	1.82	0.42
1:F:2992:ASP:O	1:F:2996:LEU:HG	2.19	0.42
1:F:3263:HIS:HA	1:F:3266:SER:HB3	2.01	0.42
1:F:3572:ILE:HG12	1:F:3796:MET:HG3	2.00	0.42
1:F:3630:ARG:NH2	1:F:3633:ILE:HG13	2.35	0.42
1:F:3763:ARG:O	1:F:3767:LEU:HG	2.18	0.42
2:G:288:LEU:CB	3:H:322:PRO:HB3	2.49	0.42
3:H:106:ASP:HB3	3:H:109:ASP:CG	2.39	0.42
3:H:328:GLU:O	3:H:332:LYS:HG2	2.19	0.42
1:A:730:LEU:O	1:A:734:LEU:HG	2.20	0.42
1:A:746:ARG:HA	1:A:749:VAL:HG23	2.01	0.42
1:A:993:HIS:CD2	1:A:993:HIS:N	2.86	0.42
1:A:1071:ASN:OD1	1:A:1072:ALA:N	2.52	0.42
1:A:2102:LYS:NZ	1:A:2106:ARG:HD2	2.35	0.42
1:A:2225:HIS:HB2	1:A:2231:PHE:HB2	2.01	0.42
1:A:2472:GLN:O	1:A:2475:ASN:HB2	2.19	0.42
1:A:2862:SER:HA	1:A:2868:LEU:HD22	2.01	0.42
1:A:2896:ALA:O	1:A:2900:LEU:HB3	2.19	0.42
1:A:2970:LYS:HA	1:A:2973:ASP:OD2	2.19	0.42
1:A:3053:LEU:HG	1:A:3092:LEU:HD11	2.01	0.42
1:A:3471:ILE:HA	1:A:3474:ARG:CG	2.47	0.42
1:A:3699:LEU:HB3	1:A:3719:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4103:GLN:O	1:A:4106:CYS:HB2	2.19	0.42
2:B:79:ASP:OD1	2:B:110:ASN:HB2	2.19	0.42
2:B:91:GLU:H	2:B:135:MET:HG2	1.84	0.42
2:B:214:SER:HB3	2:B:218:ARG:CG	2.49	0.42
2:B:297:LYS:CB	3:C:298:ASN:HD21	2.29	0.42
3:C:30:PRO:HB3	3:C:227:PHE:CD2	2.55	0.42
1:F:79:ARG:HA	1:F:79:ARG:HD3	1.70	0.42
1:F:159:GLU:HA	1:F:162:LEU:HD23	2.02	0.42
1:F:1090:ARG:HB3	1:F:1137:ILE:HG21	2.02	0.42
1:F:1097:GLU:O	1:F:1151:ARG:NH2	2.53	0.42
1:F:1189:GLU:O	1:F:1192:TYR:HB3	2.20	0.42
1:F:1388:ASP:HA	1:F:1391:VAL:HG12	2.01	0.42
1:F:1410:PRO:HG2	1:F:1411:TYR:CE2	2.55	0.42
1:F:1557:GLU:HB3	1:F:1592:MET:SD	2.59	0.42
1:F:1662:ASN:OD1	1:F:1702:LEU:HD23	2.19	0.42
1:F:1781:SER:O	1:F:1784:ARG:NH1	2.52	0.42
1:F:1913:LYS:HA	1:F:1916:ILE:CD1	2.50	0.42
1:F:2224:PHE:HA	1:F:2231:PHE:CE1	2.54	0.42
1:F:2363:CYS:O	1:F:2367:VAL:HG12	2.19	0.42
1:F:2389:PHE:HB2	1:F:2394:LYS:CD	2.44	0.42
1:F:2571:ASP:O	1:F:2787:HIS:HD2	2.02	0.42
1:F:3001:CYS:SG	1:F:3002:TYR:N	2.92	0.42
1:F:3148:GLN:OE1	1:F:3148:GLN:N	2.53	0.42
1:F:3167:ARG:HH11	1:F:3168:TYR:N	2.18	0.42
1:F:3360:LEU:HG	1:F:3373:VAL:HG21	2.00	0.42
1:F:3530:VAL:O	1:F:3534:ILE:N	2.47	0.42
3:H:381:ILE:HG23	3:H:410:PRO:HB3	2.02	0.42
1:A:139:ARG:O	1:A:139:ARG:NE	2.53	0.42
1:A:212:VAL:HG22	3:C:551:GLN:O	2.19	0.42
1:A:226:GLY:O	1:A:229:SER:OG	2.27	0.42
1:A:569:VAL:HA	1:A:572:VAL:HB	2.02	0.42
1:A:704:PHE:HA	1:A:707:PHE:CD2	2.53	0.42
1:A:1011:GLU:HA	1:A:1014:LEU:HB2	2.02	0.42
1:A:1094:SER:O	1:A:1097:GLU:N	2.41	0.42
1:A:1344:PHE:O	1:A:1348:LEU:HG	2.20	0.42
1:A:1358:LEU:HG	1:A:1360:LYS:HD2	2.00	0.42
1:A:1406:LEU:O	1:A:1406:LEU:HD23	2.20	0.42
1:A:1533:LEU:HD12	1:A:1592:MET:HB3	2.01	0.42
1:A:1708:GLU:HA	1:A:1711:ARG:HH11	1.84	0.42
1:A:1723:PRO:HG2	1:A:1729:PHE:CE2	2.55	0.42
1:A:2097:LEU:O	1:A:2100:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2104:MET:HE3	1:A:2104:MET:HB3	1.90	0.42
1:A:2450:GLU:OE1	1:A:2450:GLU:N	2.48	0.42
1:A:2923:TRP:CE3	1:A:2942:ILE:HD11	2.55	0.42
1:A:2939:LEU:C	1:A:2942:ILE:HG22	2.39	0.42
1:A:3096:VAL:HG13	1:A:3100:LYS:NZ	2.35	0.42
1:A:3383:GLN:O	1:A:3386:SER:OG	2.29	0.42
1:A:3542:PHE:CE2	1:A:3552:LYS:HD2	2.55	0.42
1:A:3571:PHE:CD2	1:A:3699:LEU:HD22	2.55	0.42
1:A:4018:GLN:O	1:A:4021:LEU:HG	2.19	0.42
1:A:4107:LEU:HA	1:A:4107:LEU:HD23	1.83	0.42
2:B:150:CYS:O	2:B:153:LEU:HB2	2.20	0.42
2:B:384:ALA:HB2	3:C:450:GLN:HG3	2.02	0.42
2:B:404:ARG:HH11	2:B:405:ASN:HD21	1.67	0.42
3:C:7:LYS:HB3	3:C:128:GLU:HB2	2.02	0.42
3:C:306:LEU:HG	3:C:308:GLU:HG3	2.02	0.42
1:F:186:PRO:O	1:F:188:GLU:N	2.53	0.42
1:F:712:LYS:HD3	1:F:712:LYS:N	2.35	0.42
1:F:1452:VAL:HG12	1:F:1456:LYS:HZ1	1.84	0.42
1:F:1646:LEU:HA	1:F:1649:LEU:HD12	2.02	0.42
1:F:1938:ARG:HA	1:F:1941:HIS:HD1	1.85	0.42
1:F:2125:TRP:CD1	1:F:2126:MET:N	2.88	0.42
1:F:2180:GLU:HB3	1:F:2225:HIS:CE1	2.55	0.42
1:F:3029:LYS:NZ	1:F:3073:LEU:HD21	2.35	0.42
1:F:3095:ASP:HB3	1:F:3098:ARG:NH1	2.27	0.42
1:F:3176:MET:CE	1:F:3245:SER:HB2	2.50	0.42
1:F:3288:SER:H	1:F:3289:ARG:NH2	2.17	0.42
1:F:3449:LYS:HA	1:F:3452:LYS:HG2	2.01	0.42
2:G:34:GLY:O	2:G:35:ARG:NH2	2.53	0.42
2:G:121:GLN:HB2	2:G:126:GLN:HE22	1.83	0.42
2:G:327:ILE:HG21	3:H:494:LEU:HD12	2.02	0.42
3:H:8:ALA:HB3	3:H:240:ILE:HG23	2.01	0.42
3:H:9:ALA:HA	3:H:53:GLU:HG2	2.00	0.42
3:H:18:PHE:HD1	3:H:102:SER:HA	1.85	0.42
3:H:496:HIS:O	3:H:500:HIS:HB2	2.20	0.42
3:H:624:LEU:HA	3:H:624:LEU:HD23	1.78	0.42
7:E:30:DA:H2"	7:E:31:DA:C8	2.55	0.42
1:A:114:VAL:HG13	1:A:130:LEU:HD11	2.01	0.42
1:A:346:TYR:HA	1:A:366:TYR:OH	2.20	0.42
1:A:438:LEU:C	1:A:442:GLN:HE22	2.22	0.42
1:A:459:ARG:NH1	1:A:543:SER:OG	2.30	0.42
1:A:667:TYR:HD1	1:A:670:LEU:HD12	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1153:LEU:HD12	1:A:1154:PRO:HD2	2.00	0.42
1:A:1591:LYS:HE2	1:A:1592:MET:SD	2.60	0.42
1:A:1846:ASP:O	1:A:1850:VAL:HG23	2.20	0.42
1:A:2260:PHE:O	1:A:2306:ASN:ND2	2.53	0.42
1:A:2575:PRO:HA	1:A:2785:ILE:O	2.19	0.42
1:A:2931:ARG:HH22	1:A:2939:LEU:CD1	2.32	0.42
1:A:3290:SER:O	1:A:3294:SER:N	2.51	0.42
1:A:3633:ILE:HA	1:A:3636:PHE:HB2	2.02	0.42
1:A:3863:ASN:O	1:A:3867:THR:N	2.36	0.42
1:A:3961:PHE:HE1	1:A:3963:LEU:HD22	1.85	0.42
1:A:4013:TRP:CZ2	1:A:4036:LYS:HE2	2.53	0.42
2:B:39:ILE:HD12	2:B:84:ALA:HB3	2.02	0.42
3:C:623:PHE:CZ	3:C:634:LYS:HB2	2.55	0.42
1:F:79:ARG:O	1:F:82:ARG:HB2	2.20	0.42
1:F:130:LEU:HD23	1:F:130:LEU:HA	1.81	0.42
1:F:313:LEU:HD21	1:F:357:LYS:HZ3	1.85	0.42
1:F:479:ILE:O	1:F:483:VAL:HG22	2.20	0.42
1:F:898:PHE:HB3	1:F:900:GLU:H	1.84	0.42
1:F:1168:LEU:HA	1:F:1171:TRP:HB3	2.00	0.42
1:F:1445:ARG:HA	1:F:1448:LEU:HB3	2.01	0.42
1:F:1920:TYR:O	1:F:1924:THR:OG1	2.26	0.42
1:F:2383:PHE:HB3	1:F:2418:LYS:NZ	2.35	0.42
1:F:2547:SER:O	1:F:2549:LYS:N	2.48	0.42
1:F:2554:PHE:HA	1:F:2557:LEU:HD13	2.01	0.42
1:F:3352:GLU:HB2	1:F:3355:LYS:HG2	2.02	0.42
1:F:3668:LEU:HA	1:F:3671:ASN:HD21	1.85	0.42
2:G:183:ALA:HB1	2:G:216:PHE:CZ	2.54	0.42
2:G:343:PRO:HA	2:G:401:THR:OG1	2.19	0.42
2:G:420:LEU:HD23	2:G:421:ASP:O	2.20	0.42
3:H:56:LEU:O	3:H:80:HIS:N	2.52	0.42
5:I:35:DT:C4	5:I:36:DA:C6	3.07	0.42
6:D:28:DA:OP2	6:D:28:DA:H8	2.02	0.42
6:D:28:DA:H2"	6:D:29:DG:C8	2.55	0.42
6:D:37:DG:C5	6:D:38:DG:C6	3.08	0.42
1:A:374:LYS:NZ	1:A:424:LEU:HA	2.35	0.42
1:A:635:PRO:HG3	1:A:672:ILE:HB	2.01	0.42
1:A:758:LEU:O	1:A:762:TYR:N	2.53	0.42
1:A:1100:VAL:O	1:A:1104:LEU:HD23	2.20	0.42
1:A:1593:VAL:O	1:A:1597:LEU:HG	2.20	0.42
1:A:1671:VAL:O	1:A:1675:TYR:N	2.39	0.42
1:A:2094:MET:HE2	1:A:2145:PHE:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2384:PHE:HE1	2:B:154:PHE:HB2	1.84	0.42
1:A:2512:ASP:OD2	1:A:2515:PRO:HA	2.20	0.42
1:A:2908:LYS:HZ1	1:A:2916:LEU:HB2	1.85	0.42
1:A:3700:GLU:HG2	1:A:3717:VAL:C	2.40	0.42
1:A:3920:ILE:HD12	1:A:3920:ILE:H	1.85	0.42
2:B:49:PHE:HB2	2:B:137:HIS:NE2	2.35	0.42
2:B:420:LEU:HB2	2:B:426:GLN:OE1	2.20	0.42
2:B:463:LYS:NZ	3:C:386:ASP:OD1	2.53	0.42
3:C:234:LEU:HA	3:C:237:PHE:CD2	2.55	0.42
3:C:645:GLU:HA	3:C:648:LYS:HG2	2.02	0.42
1:F:980:THR:O	1:F:983:LEU:HG	2.20	0.42
1:F:1102:GLU:OE2	1:F:1151:ARG:HB3	2.19	0.42
1:F:1675:TYR:O	1:F:1679:LEU:HG	2.20	0.42
1:F:2185:MET:O	1:F:2188:GLU:HG2	2.20	0.42
1:F:2254:ARG:HD2	1:F:2294:ILE:HG23	2.02	0.42
1:F:2296:SER:O	1:F:2300:PHE:HE2	2.03	0.42
1:F:2559:THR:O	1:F:2563:LEU:HG	2.19	0.42
1:F:3180:ASP:O	1:F:3184:THR:HG23	2.20	0.42
1:F:3716:HIS:H	1:F:3718:ARG:HH12	1.66	0.42
2:G:193:LEU:HA	2:G:196:THR:HB	2.00	0.42
2:G:360:HIS:CD2	2:G:438:PRO:HD3	2.55	0.42
3:H:264:TYR:OH	3:H:368:ARG:NH1	2.48	0.42
6:D:29:DG:H2"	6:D:30:DT:C6	2.55	0.42
1:A:385:TYR:CD2	1:A:424:LEU:HG	2.55	0.41
1:A:524:TYR:CD1	1:A:629:PHE:HD1	2.37	0.41
1:A:699:GLU:CD	1:A:700:LYS:HZ3	2.23	0.41
1:A:997:ASN:HD22	1:A:999:LYS:HE2	1.84	0.41
1:A:1209:LYS:HA	1:A:1212:LEU:HG	2.01	0.41
1:A:2151:ILE:HD13	1:A:2188:GLU:HB3	2.02	0.41
1:A:2304:VAL:O	1:A:2307:MET:HG3	2.20	0.41
1:A:2359:LYS:HD3	1:A:2359:LYS:N	2.34	0.41
1:A:2393:LEU:HB2	1:A:2394:LYS:NZ	2.35	0.41
1:A:2995:GLU:O	1:A:2999:LEU:HG	2.20	0.41
1:A:3086:LEU:O	1:A:3090:TYR:HD1	2.03	0.41
1:A:3161:LEU:O	1:A:3165:THR:OG1	2.29	0.41
1:A:3443:PRO:HG3	1:A:3475:TYR:CG	2.55	0.41
1:A:3737:ARG:HA	1:A:3751:LEU:HD13	2.02	0.41
1:A:3745:GLU:O	1:A:3745:GLU:HG3	2.20	0.41
1:A:6006:UNK:O	1:A:6010:UNK:N	2.53	0.41
2:B:71:TYR:CZ	2:B:75:ILE:HD11	2.55	0.41
2:B:339:ARG:HD2	2:B:340:PHE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:348:SER:O	3:C:351:VAL:HG22	2.20	0.41
1:F:131:LEU:HD12	1:F:132:ILE:N	2.34	0.41
1:F:452:LYS:O	1:F:455:LEU:HB2	2.20	0.41
1:F:484:HIS:HD2	1:F:571:SER:CA	2.32	0.41
1:F:651:TYR:O	1:F:654:ILE:HG22	2.19	0.41
1:F:1477:HIS:HB3	1:F:1481:THR:HG23	2.02	0.41
1:F:1769:GLU:O	1:F:1772:HIS:ND1	2.49	0.41
1:F:1900:PHE:O	1:F:1904:CYS:N	2.53	0.41
1:F:2195:SER:O	1:F:5009:UNK:N	2.53	0.41
1:F:2224:PHE:HA	1:F:2231:PHE:HE1	1.84	0.41
1:F:2228:ARG:H	1:F:2231:PHE:CB	2.32	0.41
1:F:3920:ILE:HG21	1:F:3942:PHE:CD1	2.55	0.41
1:F:3962:ARG:HG3	1:F:3967:PHE:HE2	1.83	0.41
1:F:3980:MET:HA	1:F:3983:ILE:CG2	2.45	0.41
2:G:376:ILE:HB	3:H:540:ILE:CG2	2.50	0.41
2:G:534:TYR:H	3:H:260:ARG:NH2	2.18	0.41
3:H:56:LEU:HD22	3:H:94:ILE:HG12	2.02	0.41
3:H:283:THR:HG23	3:H:285:LYS:H	1.85	0.41
3:H:357:MET:O	3:H:422:VAL:HG13	2.20	0.41
1:A:138:PHE:HZ	1:A:183:GLU:HB3	1.85	0.41
1:A:243:GLN:CD	1:A:246:ARG:HH21	2.23	0.41
1:A:379:LYS:HG3	1:A:380:ASP:OD1	2.19	0.41
1:A:485:GLN:HE21	1:A:6014:UNK:CB	2.34	0.41
1:A:521:VAL:N	1:A:522:PRO:HD2	2.35	0.41
1:A:899:ARG:CZ	1:A:2568:MET:HB3	2.50	0.41
1:A:909:VAL:O	1:A:912:PRO:HD2	2.20	0.41
1:A:1143:VAL:HA	1:A:1146:ASN:ND2	2.35	0.41
1:A:1511:ALA:HA	1:A:1514:LEU:HD12	2.01	0.41
1:A:1676:ILE:O	1:A:1680:ALA:N	2.49	0.41
1:A:1870:LYS:O	1:A:1873:TYR:HB2	2.19	0.41
1:A:1891:ALA:HB1	1:A:1894:SER:HA	2.02	0.41
1:A:2129:LEU:HA	1:A:2132:LYS:NZ	2.36	0.41
1:A:2203:THR:HB	1:A:2248:CYS:SG	2.60	0.41
1:A:2238:ILE:HD12	1:A:2238:ILE:H	1.85	0.41
1:A:2443:MET:HE2	1:A:2479:TRP:HE3	1.77	0.41
1:A:2499:PHE:O	1:A:2503:LYS:HG3	2.20	0.41
1:A:2546:TYR:HA	1:A:2554:PHE:CZ	2.55	0.41
1:A:2918:PRO:HB2	1:A:2922:ARG:NH2	2.28	0.41
1:A:2970:LYS:HA	1:A:2970:LYS:HD3	1.90	0.41
1:A:3008:TRP:CZ2	1:A:3050:LYS:HD2	2.55	0.41
1:A:3190:LEU:HD21	1:A:3234:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3315:TYR:O	1:A:3320:ILE:N	2.52	0.41
1:A:3604:LYS:HA	1:A:3604:LYS:HD3	1.85	0.41
1:A:3750:PHE:CE2	1:A:3804:GLU:HB3	2.54	0.41
1:A:3967:PHE:O	1:A:3970:LEU:HB2	2.20	0.41
1:A:4055:ASN:CB	1:A:4095:GLU:HA	2.50	0.41
1:A:4064:LEU:O	1:A:4068:HIS:N	2.52	0.41
2:B:114:LYS:O	2:B:117:LEU:HB2	2.21	0.41
2:B:351:LYS:N	2:B:395:ALA:O	2.50	0.41
2:B:400:TYR:CZ	2:B:402:PRO:HA	2.54	0.41
3:C:624:LEU:HD12	3:C:632:PHE:HB2	2.01	0.41
1:F:152:LEU:HD13	1:F:155:LYS:CE	2.50	0.41
1:F:386:VAL:O	1:F:389:ILE:HG22	2.20	0.41
1:F:441:MET:HA	1:F:444:ASP:OD2	2.20	0.41
1:F:1029:CYS:SG	1:F:1030:GLY:N	2.94	0.41
1:F:1583:MET:O	1:F:1586:SER:OG	2.29	0.41
1:F:1722:PHE:HE2	1:F:1742:CYS:SG	2.43	0.41
1:F:1747:LEU:O	1:F:1750:LEU:N	2.52	0.41
1:F:2145:PHE:O	1:F:2149:LEU:HG	2.20	0.41
1:F:2224:PHE:HD1	1:F:2231:PHE:HE1	1.65	0.41
1:F:2507:ILE:HA	1:F:2510:LEU:HD23	2.02	0.41
1:F:3320:ILE:O	1:F:3323:PHE:HB3	2.20	0.41
1:F:3521:ILE:O	1:F:3525:TYR:N	2.37	0.41
1:F:3734:ARG:O	1:F:3736:LYS:NZ	2.52	0.41
1:F:3813:LYS:CD	1:F:3925:LEU:HD22	2.48	0.41
1:F:3816:LEU:HD11	1:F:3882:LEU:HD11	2.01	0.41
1:F:3835:PRO:HA	1:F:3839:TYR:CD2	2.55	0.41
1:F:4089:ILE:HD12	1:F:4092:GLN:HB2	2.01	0.41
2:G:46:LYS:HA	2:G:137:HIS:NE2	2.35	0.41
2:G:122:PHE:C	2:G:127:GLY:HA3	2.41	0.41
2:G:147:LEU:C	2:G:189:LYS:HE2	2.41	0.41
2:G:259:LEU:O	2:G:271:VAL:O	2.38	0.41
3:H:488:GLN:HE22	3:H:489:ARG:HD2	1.85	0.41
3:H:496:HIS:NE2	3:H:503:GLU:OE1	2.53	0.41
5:I:37:DT:H2'	5:I:38:DT:C5	2.55	0.41
1:A:255:ALA:O	1:A:258:PRO:HD2	2.20	0.41
1:A:559:SER:O	1:A:561:ASN:N	2.53	0.41
1:A:638:GLN:H	1:A:638:GLN:CD	2.20	0.41
1:A:871:LEU:HD22	1:A:3122:HIS:CE1	2.54	0.41
1:A:924:ARG:O	1:A:928:VAL:HG22	2.20	0.41
1:A:1038:LYS:HG3	1:A:1039:TRP:CE3	2.56	0.41
1:A:1202:ARG:HG3	1:A:1207:TRP:HD1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1288:SER:HB2	1:A:1290:LEU:HD13	2.02	0.41
1:A:1324:PRO:HA	1:A:1328:GLU:OE2	2.20	0.41
1:A:1506:SER:OG	1:A:1507:CYS:N	2.53	0.41
1:A:1910:GLU:HG2	3:H:732:ILE:HG23	2.01	0.41
1:A:2253:TYR:H	1:A:2256:ILE:HD13	1.85	0.41
1:A:2539:LEU:HD23	1:A:2543:ASN:ND2	2.34	0.41
1:A:2805:ALA:O	1:A:2808:LEU:HB2	2.19	0.41
1:A:2832:ILE:HA	1:A:2835:LYS:HE2	2.02	0.41
1:A:2936:TYR:HD1	1:A:2940:ARG:HH12	1.69	0.41
1:A:3839:TYR:HA	1:A:3842:TRP:HB3	2.02	0.41
2:B:75:ILE:HG23	2:B:111:PRO:HB2	2.01	0.41
3:C:185:LEU:HB3	3:C:514:ASN:HD22	1.85	0.41
3:C:273:LYS:NZ	3:C:274:LYS:HE2	2.36	0.41
1:F:477:ASN:O	1:F:481:THR:HG23	2.21	0.41
1:F:571:SER:O	1:F:575:ILE:HG13	2.20	0.41
1:F:1212:LEU:CD1	1:F:1213:LYS:HG3	2.50	0.41
1:F:1601:LEU:O	1:F:1604:SER:OG	2.37	0.41
1:F:2388:LYS:H	1:F:2394:LYS:NZ	2.18	0.41
1:F:2584:CYS:SG	1:F:2780:LEU:HB2	2.60	0.41
1:F:3130:GLN:HA	1:F:3133:GLN:HE22	1.86	0.41
1:F:3232:ARG:O	1:F:3235:LYS:HG3	2.20	0.41
1:F:3239:LYS:HE2	1:F:3262:LEU:HD11	2.03	0.41
1:F:3341:LEU:HD22	1:F:3374:ILE:HD13	2.02	0.41
1:F:3683:CYS:O	1:F:3685:PRO:HD3	2.20	0.41
1:F:3733:ARG:HB2	1:F:3753:LYS:CE	2.50	0.41
2:G:461:LYS:NZ	2:G:525:PHE:HB3	2.35	0.41
2:G:482:VAL:HG12	2:G:486:HIS:CE1	2.53	0.41
3:H:185:LEU:HD22	3:H:510:GLN:OE1	2.20	0.41
3:H:656:ASN:O	3:H:660:LYS:HG2	2.19	0.41
4:J:29:DG:C5	4:J:30:DT:C4	3.09	0.41
7:E:28:DT:C4	7:E:29:DA:N6	2.88	0.41
1:A:332:GLU:HA	1:A:335:LYS:HG3	2.02	0.41
1:A:411:PRO:O	1:A:414:LEU:HD23	2.21	0.41
1:A:656:GLN:O	1:A:660:LEU:N	2.43	0.41
1:A:1601:LEU:HB3	1:A:1651:LYS:HG2	2.01	0.41
1:A:1878:ASP:OD1	1:A:1879:VAL:HG23	2.19	0.41
1:A:3033:GLU:CG	1:A:3034:PRO:HD3	2.48	0.41
1:A:3390:GLN:H	1:A:3390:GLN:HG3	1.73	0.41
1:A:3496:ILE:HG21	1:A:3707:GLY:N	2.30	0.41
1:A:4017:GLU:OE2	1:A:4036:LYS:NZ	2.53	0.41
2:B:125:GLN:O	2:B:129:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:115:MET:HA	3:C:118:ILE:HG22	2.02	0.41
3:C:314:PHE:HB2	3:C:323:PHE:CE2	2.56	0.41
3:C:599:ARG:NH2	3:C:645:GLU:HG3	2.35	0.41
3:C:610:GLU:HA	3:C:654:ARG:HH12	1.84	0.41
1:F:722:LYS:CA	1:F:726:LEU:HD23	2.44	0.41
1:F:1005:ASP:O	1:F:1009:LEU:HG	2.20	0.41
1:F:1145:LEU:HB3	1:F:1165:LEU:HD21	2.02	0.41
1:F:1214:GLU:HG3	1:F:1215:GLU:H	1.85	0.41
1:F:1374:GLN:CG	1:F:1422:LYS:HE2	2.51	0.41
1:F:1419:LEU:HD11	1:F:1458:LEU:HD11	2.02	0.41
1:F:1760:GLU:O	1:F:1763:THR:N	2.54	0.41
1:F:2142:ILE:H	1:F:2142:ILE:HD12	1.85	0.41
1:F:2201:THR:HA	1:F:2245:TRP:NE1	2.35	0.41
1:F:2916:LEU:HD13	1:F:2920:VAL:HG11	2.02	0.41
1:F:3064:PHE:HA	1:F:3067:LYS:HD2	2.02	0.41
1:F:3107:ILE:HD11	1:F:3135:LEU:HD21	2.01	0.41
1:F:3737:ARG:HD2	1:F:3738:ILE:N	2.34	0.41
1:F:3758:LEU:CB	1:F:3762:GLN:HE22	2.32	0.41
1:F:4003:ASP:O	1:F:4007:LYS:HG2	2.21	0.41
2:G:125:GLN:HA	2:G:128:GLN:HG3	2.03	0.41
2:G:176:HIS:NE2	2:G:180:SER:HA	2.34	0.41
3:H:37:VAL:HB	3:H:41:PHE:CE1	2.54	0.41
3:H:198:THR:O	3:H:202:LYS:N	2.49	0.41
3:H:205:LEU:HA	3:H:208:VAL:HG22	2.03	0.41
3:H:640:ARG:HH21	3:H:682:GLY:HA2	1.85	0.41
6:D:22:DG:N2	6:D:23:DT:C2	2.88	0.41
7:E:33:DA:H5'	7:E:33:DA:C8	2.54	0.41
1:A:212:VAL:C	1:A:213:ARG:HD3	2.41	0.41
1:A:297:LEU:O	1:A:301:CYS:N	2.53	0.41
1:A:635:PRO:HG3	1:A:672:ILE:HD12	2.01	0.41
1:A:726:LEU:O	1:A:730:LEU:HG	2.20	0.41
1:A:855:VAL:O	1:A:859:LEU:HG	2.20	0.41
1:A:857:GLN:CD	1:A:857:GLN:N	2.72	0.41
1:A:1147:LYS:HD3	1:A:1149:LYS:HD3	2.01	0.41
1:A:1223:THR:C	1:A:1225:GLU:H	2.22	0.41
1:A:1973:LYS:HZ1	1:A:1978:PHE:HB2	1.86	0.41
1:A:1977:ILE:HG21	1:A:2090:ARG:HH21	1.86	0.41
1:A:2195:SER:HB2	1:A:2196:TRP:CE3	2.55	0.41
1:A:2257:PHE:HA	1:A:2260:PHE:CE2	2.56	0.41
1:A:2574:ASN:HB2	1:A:2787:HIS:CD2	2.51	0.41
1:A:2813:PHE:O	1:A:2817:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2897:LEU:HD22	1:A:2923:TRP:CE2	2.55	0.41
1:A:3290:SER:OG	1:A:3293:CYS:HB3	2.21	0.41
1:A:3646:LYS:HD3	1:A:3653:ARG:HB2	2.02	0.41
1:A:3952:PHE:HE1	1:A:4036:LYS:HZ1	1.68	0.41
2:B:298:THR:HA	3:C:295:TYR:CE1	2.55	0.41
2:B:410:PHE:HZ	3:C:516:LEU:HD22	1.86	0.41
3:C:142:PHE:CE1	3:C:200:GLN:HA	2.56	0.41
3:C:668:ILE:HG13	3:C:669:LYS:N	2.36	0.41
1:F:173:LYS:HD3	1:F:173:LYS:N	2.35	0.41
1:F:176:GLU:OE2	1:F:226:GLY:HA3	2.20	0.41
1:F:275:PHE:HE2	1:F:319:PHE:HB2	1.85	0.41
1:F:719:LYS:HE3	1:F:719:LYS:HB3	1.87	0.41
1:F:1297:PHE:HA	1:F:1300:SER:HG	1.85	0.41
1:F:1395:LEU:HD23	1:F:1396:PRO:HD3	2.02	0.41
1:F:1538:LEU:H	1:F:1553:PHE:H	1.67	0.41
1:F:1854:ARG:HH12	3:H:725:VAL:CG1	2.31	0.41
1:F:2307:MET:SD	1:F:2319:ALA:HB3	2.61	0.41
1:F:2791:ILE:HA	1:F:2794:LEU:HD12	2.02	0.41
1:F:2797:VAL:HG13	1:F:2804:ILE:HG21	2.02	0.41
1:F:2891:ARG:HA	1:F:2894:GLU:OE1	2.20	0.41
1:F:3117:ILE:HG22	1:F:3118:ASP:O	2.21	0.41
1:F:3468:LEU:HA	1:F:3471:ILE:HG22	2.02	0.41
1:F:3772:ASN:HA	1:F:3775:LEU:HD12	2.02	0.41
1:F:4061:CYS:HB2	1:F:4078:VAL:HG13	2.02	0.41
1:F:6006:UNK:O	1:F:6010:UNK:N	2.53	0.41
2:G:54:GLU:HB3	2:G:56:GLU:CD	2.41	0.41
2:G:90:THR:HA	2:G:135:MET:HE3	2.03	0.41
2:G:126:GLN:O	2:G:130:ARG:NH1	2.54	0.41
2:G:190:ALA:O	2:G:193:LEU:HG	2.20	0.41
3:H:57:VAL:HG12	3:H:79:VAL:HG22	2.03	0.41
3:H:443:LYS:H	3:H:443:LYS:HG2	1.69	0.41
4:J:21:DA:H1'	4:J:22:DG:H8	1.85	0.41
1:A:70:ARG:NH1	1:A:82:ARG:NH2	2.68	0.41
1:A:146:GLU:HB2	1:A:183:GLU:HA	2.01	0.41
1:A:421:LEU:HD12	1:A:424:LEU:HB2	2.02	0.41
1:A:646:VAL:HG23	1:A:647:TYR:N	2.35	0.41
1:A:835:LYS:HD2	1:A:835:LYS:O	2.20	0.41
1:A:1069:HIS:CG	1:A:1074:LYS:HE2	2.55	0.41
1:A:1126:GLN:OE1	1:A:1126:GLN:N	2.46	0.41
1:A:1244:LEU:HD21	1:A:1312:CYS:SG	2.60	0.41
1:A:1578:ALA:O	1:A:1582:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1978:PHE:CG	1:A:1979:GLU:N	2.89	0.41
1:A:2892:LEU:HD23	1:A:2892:LEU:HA	1.92	0.41
1:A:2908:LYS:HE3	1:A:2915:ARG:NH1	2.36	0.41
1:A:3090:TYR:CE1	1:A:3102:TYR:HE2	2.38	0.41
1:A:3114:TYR:HA	1:A:3117:ILE:HG12	2.01	0.41
1:A:3328:ILE:HD11	1:A:3412:ALA:HB2	2.03	0.41
1:A:3421:ASP:OD2	1:A:3467:ARG:HG2	2.20	0.41
1:A:3450:MET:HE1	1:A:3468:LEU:HD22	2.01	0.41
1:A:3533:PHE:O	1:A:3537:SER:OG	2.34	0.41
1:A:3533:PHE:HA	1:A:3536:SER:HB3	2.03	0.41
2:B:143:LEU:HA	2:B:146:VAL:HB	2.03	0.41
2:B:186:ALA:HA	2:B:189:LYS:HZ1	1.86	0.41
2:B:238:LYS:O	2:B:242:LEU:N	2.44	0.41
2:B:403:ARG:HH11	2:B:404:ARG:HB3	1.84	0.41
3:C:493:CYS:HB3	3:C:506:PRO:HG3	2.02	0.41
1:F:262:LEU:HD13	4:J:20:DT:OP1	2.20	0.41
1:F:859:LEU:O	1:F:862:LEU:HB3	2.20	0.41
1:F:1297:PHE:HA	1:F:1301:ILE:HG12	2.02	0.41
1:F:1529:VAL:HG11	1:F:1581:GLU:OE1	2.20	0.41
1:F:1769:GLU:OE2	1:F:1770:GLN:N	2.50	0.41
1:F:1812:LEU:N	1:F:1815:THR:OG1	2.54	0.41
1:F:2180:GLU:OE2	1:F:2222:HIS:ND1	2.41	0.41
1:F:2421:VAL:HG23	1:F:2457:PRO:HG3	2.03	0.41
1:F:3046:ARG:HG2	1:F:3050:LYS:NZ	2.29	0.41
1:F:3072:GLU:HG2	1:F:3073:LEU:N	2.35	0.41
1:F:3617:LEU:HB3	1:F:3640:PHE:CD1	2.56	0.41
1:F:3629:ARG:O	1:F:3633:ILE:HG23	2.21	0.41
1:F:3842:TRP:HB3	1:F:3858:MET:HG2	2.01	0.41
1:F:3980:MET:O	1:F:3983:ILE:HG22	2.20	0.41
1:F:4079:ALA:HA	1:F:4082:ARG:NH1	2.35	0.41
1:F:4082:ARG:O	1:F:4090:ARG:HG3	2.20	0.41
3:H:134:ILE:O	3:H:164:PHE:HD2	2.02	0.41
3:H:295:TYR:H	3:H:307:LYS:HE3	1.86	0.41
3:H:601:LEU:HA	3:H:604:GLN:HG2	2.02	0.41
4:J:29:DG:C2	4:J:30:DT:C2	3.09	0.41
1:A:30:ALA:HA	1:A:33:GLN:NE2	2.35	0.41
1:A:232:CYS:HB2	1:A:278:HIS:CD2	2.56	0.41
1:A:295:GLU:HG2	1:A:296:VAL:N	2.36	0.41
1:A:364:ARG:HA	1:A:416:SER:OG	2.20	0.41
1:A:429:GLU:HA	1:A:432:THR:HG23	2.01	0.41
1:A:649:PHE:N	1:A:649:PHE:CD1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:800:LEU:HD21	1:A:855:VAL:HG11	2.01	0.41
1:A:893:SER:HB3	1:A:905:ILE:O	2.20	0.41
1:A:894:PHE:HB3	1:A:905:ILE:HD11	2.03	0.41
1:A:1033:ILE:O	1:A:1037:LEU:N	2.35	0.41
1:A:1086:TYR:CD2	1:A:1133:HIS:CE1	3.09	0.41
1:A:1102:GLU:OE1	1:A:1102:GLU:N	2.34	0.41
1:A:1274:ARG:HA	1:A:1274:ARG:NE	2.34	0.41
1:A:1685:ASP:OD2	1:A:1687:HIS:NE2	2.53	0.41
1:A:1971:PRO:HA	1:A:1974:ASN:OD1	2.21	0.41
1:A:2152:ASN:OD1	1:A:2153:THR:HG23	2.20	0.41
1:A:2175:GLU:HG3	1:A:2176:ASN:N	2.35	0.41
1:A:2190:VAL:HG21	1:A:2241:LEU:HD11	2.02	0.41
1:A:2510:LEU:CD1	1:A:2521:ILE:HG21	2.50	0.41
1:A:2554:PHE:HB3	1:A:2854:PHE:HE1	1.85	0.41
1:A:2787:HIS:O	1:A:2790:LEU:HB3	2.20	0.41
1:A:2939:LEU:O	1:A:2943:PHE:N	2.51	0.41
1:A:3134:ALA:O	1:A:3138:ILE:HG13	2.20	0.41
1:A:3389:VAL:HA	1:A:3392:ALA:HB3	2.02	0.41
1:A:3646:LYS:HD3	1:A:3650:LYS:HA	2.03	0.41
1:A:4034:ALA:HA	1:A:4036:LYS:NZ	2.36	0.41
2:B:35:ARG:HG2	2:B:80:ARG:NH1	2.35	0.41
2:B:296:VAL:HG23	3:C:295:TYR:HB3	2.02	0.41
3:C:112:ILE:HG13	3:C:112:ILE:H	1.75	0.41
3:C:496:HIS:NE2	3:C:506:PRO:HA	2.35	0.41
3:C:526:SER:O	3:C:529:PRO:HD2	2.21	0.41
1:F:138:PHE:HE2	1:F:177:LEU:HD13	1.86	0.41
1:F:148:LYS:O	1:F:152:LEU:HD23	2.21	0.41
1:F:229:SER:O	1:F:233:ASN:ND2	2.49	0.41
1:F:259:GLN:OE1	1:F:261:ASP:HB3	2.21	0.41
1:F:671:SER:HB3	1:F:732:PHE:HA	2.02	0.41
1:F:866:ILE:H	1:F:866:ILE:HD12	1.86	0.41
1:F:1465:HIS:HA	1:F:1468:LEU:HB2	2.02	0.41
1:F:2490:GLU:HG2	1:F:2495:SER:HB2	2.03	0.41
1:F:2991:LYS:HG2	1:F:2994:TRP:CZ3	2.55	0.41
1:F:3963:LEU:HA	1:F:3967:PHE:HD2	1.86	0.41
2:G:451:LYS:HG3	2:G:452:ILE:H	1.86	0.41
3:H:98:ILE:HD12	3:H:98:ILE:HA	1.94	0.41
3:H:113:VAL:O	3:H:117:VAL:HG13	2.20	0.41
3:H:202:LYS:O	3:H:205:LEU:HG	2.21	0.41
3:H:509:GLN:OE1	3:H:512:ILE:HG23	2.20	0.41
4:J:27:DT:H2"	4:J:28:DA:N7	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:ILE:HA	1:A:547:ASP:OD2	2.21	0.41
1:A:1274:ARG:HA	1:A:1274:ARG:NH1	2.36	0.41
1:A:1900:PHE:HD2	1:A:1904:CYS:HG	1.66	0.41
1:A:2253:TYR:N	1:A:2256:ILE:HD13	2.35	0.41
1:A:2300:PHE:HB2	1:A:2301:GLN:NE2	2.35	0.41
1:A:2503:LYS:O	1:A:2507:ILE:HG12	2.21	0.41
1:A:2796:ALA:C	1:A:2799:GLN:HE22	2.22	0.41
1:A:3141:PHE:O	1:A:3145:ILE:HG22	2.21	0.41
1:A:3231:ILE:O	1:A:3235:LYS:HG3	2.20	0.41
1:A:3264:LYS:HA	1:A:3267:LYS:HD2	2.03	0.41
1:A:3274:VAL:HG11	1:A:3318:LYS:HE3	2.03	0.41
1:A:3368:GLU:OE1	1:A:3368:GLU:N	2.50	0.41
1:A:3695:LEU:O	1:A:3695:LEU:HD23	2.21	0.41
1:A:3727:THR:O	1:A:3737:ARG:N	2.53	0.41
1:A:3846:MET:HE2	1:A:3862:ALA:HA	2.02	0.41
2:B:164:LYS:HD2	2:B:198:ILE:HG13	2.02	0.41
2:B:420:LEU:HA	2:B:426:GLN:HA	2.02	0.41
2:B:438:PRO:O	3:C:480:THR:HA	2.21	0.41
3:C:315:ARG:HA	3:C:320:ILE:HD13	2.02	0.41
3:C:512:ILE:O	3:C:515:MET:HG2	2.21	0.41
1:F:211:ALA:HB1	3:H:548:VAL:HA	2.02	0.41
1:F:583:LEU:HA	1:F:615:ALA:H	1.85	0.41
1:F:677:ALA:O	1:F:680:ILE:HG22	2.20	0.41
1:F:833:HIS:O	1:F:833:HIS:CG	2.73	0.41
1:F:1146:ASN:OD1	1:F:1165:LEU:HD12	2.21	0.41
1:F:1241:LEU:HB3	1:F:1256:TRP:CE3	2.55	0.41
1:F:1709:GLU:H	1:F:1709:GLU:CD	2.24	0.41
1:F:2353:GLN:HA	1:F:2356:MET:CG	2.50	0.41
1:F:2472:GLN:HA	1:F:2475:ASN:OD1	2.21	0.41
1:F:3182:ILE:HG13	1:F:3183:ILE:N	2.36	0.41
1:F:3315:TYR:HD2	1:F:3323:PHE:CA	2.34	0.41
1:F:3548:GLY:H	1:F:3550:LYS:NZ	2.18	0.41
1:F:3564:GLN:O	1:F:3568:ILE:HD11	2.20	0.41
2:G:299:LYS:O	3:H:293:THR:HA	2.19	0.41
2:G:413:LEU:HA	2:G:434:LEU:HA	2.02	0.41
3:H:513:TRP:HA	3:H:516:LEU:HB3	2.02	0.41
5:I:35:DT:C4	5:I:36:DA:N6	2.89	0.41
6:D:16:DA:N6	7:E:42:DA:C6	2.89	0.41
1:A:39:GLY:O	1:A:43:VAL:HG23	2.21	0.41
1:A:321:LYS:O	1:A:324:SER:CB	2.68	0.41
1:A:337:LYS:HE2	1:A:337:LYS:HB3	1.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:GLN:HE22	3:C:570:GLU:CD	2.23	0.41
1:A:349:ILE:HD12	1:A:349:ILE:HA	1.93	0.41
1:A:848:LEU:O	1:A:851:ILE:HB	2.19	0.41
1:A:990:GLN:HG3	1:A:2781:PRO:HG3	2.02	0.41
1:A:1013:ILE:HD12	1:A:1033:ILE:HD11	2.03	0.41
1:A:1145:LEU:O	1:A:1165:LEU:HG	2.20	0.41
1:A:1301:ILE:HD12	1:A:1330:TYR:OH	2.21	0.41
1:A:1322:THR:OG1	1:A:1325:GLN:NE2	2.54	0.41
1:A:1365:ASN:OD1	1:A:1366:THR:N	2.54	0.41
1:A:1412:LYS:HD2	1:A:1415:LEU:HD22	2.03	0.41
1:A:1479:VAL:HG23	1:A:1524:LEU:HD21	2.03	0.41
1:A:1492:ALA:CB	1:A:1555:HIS:HE1	2.34	0.41
1:A:1576:ASP:OD1	1:A:1577:LEU:HD22	2.20	0.41
1:A:1584:GLN:HA	1:A:1628:LYS:HZ2	1.86	0.41
1:A:1667:SER:O	1:A:1671:VAL:HG22	2.21	0.41
1:A:1860:GLU:O	1:A:1863:PHE:HB3	2.20	0.41
1:A:2102:LYS:HD2	1:A:2105:HIS:HB3	2.01	0.41
1:A:2127:LYS:HA	1:A:2127:LYS:HD2	1.84	0.41
1:A:2151:ILE:HG12	1:A:2188:GLU:HG2	2.02	0.41
1:A:2234:ASN:HA	1:A:2237:ILE:HD13	2.03	0.41
1:A:2320:ALA:CB	1:A:2366:LYS:HB2	2.51	0.41
1:A:2357:GLU:OE1	1:A:2357:GLU:N	2.53	0.41
1:A:2455:LEU:O	1:A:2459:VAL:HG22	2.21	0.41
1:A:2455:LEU:O	1:A:2459:VAL:N	2.33	0.41
1:A:2530:ARG:HG3	1:A:2531:LEU:HD13	2.03	0.41
1:A:3147:LYS:HD2	1:A:3150:ASN:OD1	2.21	0.41
1:A:3160:LEU:O	1:A:3163:THR:HB	2.21	0.41
1:A:3283:LEU:CD2	1:A:3287:ARG:HH21	2.30	0.41
1:A:3415:THR:O	1:A:3418:ASP:HB3	2.20	0.41
1:A:3549:HIS:O	1:A:3552:LYS:N	2.54	0.41
1:A:3588:TRP:CZ2	1:A:3613:MET:CB	3.04	0.41
1:A:3689:ASP:O	1:A:3691:LYS:HE2	2.21	0.41
1:A:3753:LYS:NZ	1:A:3756:GLU:O	2.54	0.41
1:A:3758:LEU:O	1:A:3762:GLN:N	2.34	0.41
1:A:3867:THR:HA	1:A:3870:SER:HG	1.86	0.41
1:A:3968:ILE:HD13	1:A:3976:GLU:HB2	2.03	0.41
1:A:3981:TYR:O	1:A:3985:VAL:HG23	2.21	0.41
1:A:4016:PHE:O	1:A:4020:MET:N	2.53	0.41
1:A:4021:LEU:HA	1:A:4027:TRP:CD1	2.55	0.41
2:B:185:ARG:O	2:B:189:LYS:HG2	2.21	0.41
2:B:404:ARG:HH11	2:B:405:ASN:ND2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:7:LYS:HB2	3:C:7:LYS:HE3	1.76	0.41
3:C:19:THR:OG1	3:C:104:GLN:OE1	2.39	0.41
3:C:81:ARG:NE	3:C:81:ARG:HA	2.35	0.41
3:C:167:PHE:HZ	3:C:197:ILE:HG21	1.86	0.41
3:C:347:LYS:HD3	3:C:389:MET:SD	2.61	0.41
3:C:447:THR:O	3:C:450:GLN:HG2	2.21	0.41
3:C:552:GLU:HG3	3:C:553:ILE:N	2.36	0.41
3:C:629:THR:N	3:C:630:PRO:HD2	2.35	0.41
3:C:674:PHE:O	3:C:678:VAL:HG23	2.21	0.41
1:F:116:THR:OG1	3:H:302:GLU:HG2	2.20	0.41
1:F:392:CYS:O	1:F:397:LEU:HD23	2.21	0.41
1:F:736:LEU:HB3	1:F:740:ILE:CG2	2.48	0.41
1:F:981:ARG:HG2	1:F:981:ARG:H	1.65	0.41
1:F:1172:LEU:HD23	1:F:1194:PHE:HE2	1.86	0.41
1:F:1194:PHE:O	1:F:1198:LEU:HG	2.21	0.41
1:F:1260:LEU:HD21	1:F:1341:ILE:HD11	2.02	0.41
1:F:1264:LEU:HG	1:F:1344:PHE:HB2	2.01	0.41
1:F:1299:GLU:OE1	1:F:1299:GLU:N	2.53	0.41
1:F:1456:LYS:HG3	1:F:1460:ARG:HH22	1.86	0.41
1:F:1558:TYR:O	1:F:1562:LEU:HG	2.20	0.41
1:F:1573:LYS:H	1:F:1573:LYS:HD2	1.86	0.41
1:F:1684:LEU:C	1:F:1689:LYS:HZ3	2.24	0.41
1:F:2140:LEU:N	1:F:2143:ARG:HH21	2.18	0.41
1:F:2150:VAL:O	1:F:2154:GLU:HB3	2.21	0.41
1:F:2224:PHE:O	1:F:2224:PHE:CG	2.74	0.41
1:F:2264:ASP:OD2	1:F:2269:ASP:N	2.54	0.41
1:F:2426:HIS:CG	1:F:2427:ARG:N	2.88	0.41
1:F:2878:ALA:O	1:F:2881:LEU:HB2	2.21	0.41
1:F:2897:LEU:HD21	1:F:2923:TRP:CH2	2.55	0.41
1:F:3009:LYS:HD2	1:F:3051:LEU:HD21	2.02	0.41
1:F:3099:ALA:O	1:F:3103:ILE:HG13	2.21	0.41
1:F:3352:GLU:OE1	1:F:3356:ALA:N	2.54	0.41
1:F:3666:LEU:HD12	1:F:3666:LEU:HA	1.89	0.41
1:F:3669:LYS:HG3	1:F:3670:MET:HE2	2.03	0.41
1:F:3823:GLU:H	1:F:3823:GLU:CD	2.24	0.41
2:G:283:PRO:O	3:H:314:PHE:HE2	2.04	0.41
2:G:486:HIS:O	2:G:490:LEU:HG	2.20	0.41
3:H:163:PHE:O	3:H:225:TYR:HB2	2.21	0.41
3:H:469:LYS:HA	3:H:469:LYS:HD3	1.95	0.41
1:A:190:ILE:O	1:A:193:ALA:N	2.54	0.41
1:A:203:GLU:OE2	1:A:206:THR:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:GLU:HB3	1:A:251:PHE:CE2	2.55	0.41
1:A:264:ARG:HG2	1:A:265:TYR:H	1.86	0.41
1:A:429:GLU:OE1	1:A:429:GLU:N	2.31	0.41
1:A:647:TYR:CD2	1:A:703:CYS:HB3	2.56	0.41
1:A:1465:HIS:HA	1:A:1468:LEU:HB3	2.03	0.41
1:A:1642:LYS:O	1:A:1646:LEU:HG	2.21	0.41
1:A:1855:PHE:HA	1:A:1863:PHE:HE1	1.86	0.41
1:A:1871:MET:HA	1:A:1874:TYR:CD2	2.56	0.41
1:A:2316:TYR:OH	1:A:2359:LYS:HD2	2.21	0.41
1:A:2421:VAL:CG2	1:A:2457:PRO:HG3	2.44	0.41
1:A:2510:LEU:HD13	1:A:2521:ILE:HG21	2.03	0.41
1:A:2965:TYR:HB2	1:A:3005:LEU:HD21	2.03	0.41
1:A:3008:TRP:HD1	1:A:3011:LEU:HD22	1.86	0.41
1:A:3054:GLN:HB2	1:A:3056:GLU:OE2	2.21	0.41
1:A:3085:GLU:O	1:A:3088:LEU:HB3	2.21	0.41
1:A:3252:PHE:HB2	1:A:3256:MET:HE1	2.03	0.41
1:A:3546:SER:C	1:A:3549:HIS:HD1	2.24	0.41
1:A:3822:GLN:NE2	1:A:3823:GLU:OE1	2.53	0.41
1:A:3989:ARG:HG3	1:A:3989:ARG:NH1	2.36	0.41
1:A:4012:ASP:N	1:A:4015:ASN:OD1	2.54	0.41
2:B:181:ALA:O	2:B:185:ARG:HG3	2.21	0.41
2:B:413:LEU:HA	2:B:434:LEU:HA	2.03	0.41
2:B:418:GLU:OE2	3:C:437:SER:HB3	2.21	0.41
3:C:165:LEU:O	3:C:227:PHE:N	2.54	0.41
3:C:184:ARG:HB3	3:C:187:GLY:H	1.86	0.41
3:C:405:VAL:N	3:C:421:TYR:OH	2.54	0.41
3:C:602:VAL:HG23	3:C:603:LYS:HZ2	1.86	0.41
3:C:651:GLU:HG2	3:C:654:ARG:NH2	2.36	0.41
1:F:38:LEU:HD21	1:F:85:ILE:HG13	2.03	0.41
1:F:151:GLU:HG2	1:F:152:LEU:HD22	2.03	0.41
1:F:199:ALA:HA	2:G:312:LEU:HD21	2.02	0.41
1:F:454:GLN:HA	1:F:457:CYS:HB2	2.02	0.41
1:F:959:TYR:HD1	1:F:1004:GLN:OE1	2.04	0.41
1:F:962:TYR:HB3	1:F:966:PHE:CE2	2.56	0.41
1:F:1082:PHE:HE2	1:F:1133:HIS:HB2	1.85	0.41
1:F:1311:LYS:HD3	1:F:1311:LYS:HA	1.90	0.41
1:F:1601:LEU:HB3	1:F:1651:LYS:HG2	2.03	0.41
1:F:1608:ARG:HB2	1:F:1612:LYS:HZ2	1.86	0.41
1:F:1611:GLN:HB2	1:F:1613:HIS:ND1	2.36	0.41
1:F:1727:ARG:NE	1:F:1772:HIS:HA	2.36	0.41
1:F:1743:MET:O	1:F:1747:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1809:ASP:OD1	3:H:672:ASN:ND2	2.54	0.41
1:F:3019:ILE:HD13	1:F:3037:GLN:HE22	1.86	0.41
1:F:3228:SER:HA	1:F:3231:ILE:HG12	2.03	0.41
1:F:3498:TRP:HE3	1:F:3501:HIS:CE1	2.39	0.41
1:F:3750:PHE:HD1	1:F:3804:GLU:HA	1.85	0.41
1:F:3813:LYS:HG3	1:F:3926:ASN:ND2	2.36	0.41
1:F:3873:LYS:HA	1:F:3873:LYS:HD2	1.91	0.41
2:G:95:ASN:CG	2:G:98:ASN:H	2.23	0.41
3:H:90:LEU:O	3:H:94:ILE:HG13	2.21	0.41
3:H:340:PHE:CE2	3:H:393:VAL:HG21	2.56	0.41
3:H:510:GLN:HA	3:H:513:TRP:HE3	1.79	0.41
4:J:22:DG:C2	5:I:35:DT:N3	2.89	0.41
1:A:432:THR:OG1	1:A:433:PRO:HD3	2.20	0.40
1:A:785:MET:HA	1:A:788:TYR:CD2	2.46	0.40
1:A:975:ASP:HB3	1:A:980:THR:HG21	2.03	0.40
1:A:1311:LYS:HA	1:A:1311:LYS:HD3	1.69	0.40
1:A:1665:HIS:H	1:A:1668:PHE:HB3	1.85	0.40
1:A:1803:GLU:OE2	1:A:1806:ARG:NH2	2.54	0.40
1:A:1811:ARG:NH2	3:C:625:ASP:HB3	2.37	0.40
1:A:2316:TYR:HA	1:A:2319:ALA:HB3	2.03	0.40
1:A:2357:GLU:HG2	1:A:2358:ASP:H	1.83	0.40
1:A:3235:LYS:O	1:A:3238:MET:HG2	2.21	0.40
1:A:3251:ASN:ND2	1:A:3254:LEU:HB3	2.32	0.40
1:A:3272:TRP:N	1:A:3272:TRP:CD1	2.87	0.40
1:A:3466:PRO:O	1:A:3469:LEU:N	2.54	0.40
1:A:3543:LYS:HB3	1:A:3548:GLY:CA	2.48	0.40
1:A:3603:LYS:HB2	1:A:3604:LYS:NZ	2.36	0.40
1:A:3809:THR:OG1	1:A:3929:MET:HB3	2.21	0.40
1:A:3822:GLN:H	1:A:3822:GLN:HG3	1.65	0.40
1:A:3904:PHE:HA	1:A:3907:SER:OG	2.21	0.40
1:A:4075:ARG:HA	1:A:4078:VAL:HG12	2.04	0.40
2:B:262:LYS:HD3	2:B:264:ASN:O	2.20	0.40
2:B:384:ALA:HA	3:C:446:PRO:HB3	2.02	0.40
2:B:419:GLU:OE2	2:B:428:THR:HB	2.21	0.40
2:B:450:GLU:HA	3:C:416:TYR:CD1	2.55	0.40
2:B:482:VAL:HG13	3:C:333:TYR:O	2.21	0.40
3:C:326:VAL:O	3:C:330:GLN:HG2	2.20	0.40
1:F:87:LYS:HZ2	1:F:91:ILE:HG21	1.86	0.40
1:F:257:ARG:NH2	3:H:552:GLU:HB3	2.36	0.40
1:F:357:LYS:HG2	1:F:357:LYS:O	2.21	0.40
1:F:360:SER:O	1:F:363:ILE:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:393:LYS:HB3	1:F:393:LYS:HE3	1.80	0.40
1:F:536:SER:HB2	1:F:539:GLN:HE22	1.87	0.40
1:F:613:HIS:ND1	1:F:614:PRO:O	2.53	0.40
1:F:991:LEU:HB3	1:F:995:PHE:CZ	2.56	0.40
1:F:1000:LYS:HD2	1:F:1000:LYS:HA	1.86	0.40
1:F:1097:GLU:HA	1:F:1145:LEU:HD21	2.02	0.40
1:F:1123:THR:HA	1:F:1126:GLN:NE2	2.34	0.40
1:F:1282:LEU:HD12	1:F:1359:LEU:O	2.20	0.40
1:F:1915:LEU:HD22	1:F:1918:LEU:HD12	2.03	0.40
1:F:2503:LYS:HA	1:F:2503:LYS:HD3	1.84	0.40
1:F:2574:ASN:N	1:F:2786:LYS:HG3	2.36	0.40
1:F:3029:LYS:HA	1:F:3074:GLN:OE1	2.21	0.40
1:F:3061:LEU:HD23	1:F:3061:LEU:H	1.86	0.40
1:F:3182:ILE:O	1:F:3186:ARG:HG3	2.21	0.40
1:F:3420:CYS:HB2	1:F:3446:VAL:HG11	2.01	0.40
1:F:3554:PHE:HD1	1:F:3557:ARG:HE	1.69	0.40
1:F:3820:MET:CE	1:F:3882:LEU:HB2	2.51	0.40
1:F:3849:LYS:H	1:F:3854:ALA:CB	2.34	0.40
1:F:4008:GLU:OE2	1:F:4010:SER:HB3	2.21	0.40
1:F:4110:GLN:O	1:F:4116:ILE:HD11	2.22	0.40
2:G:325:ARG:HB3	2:G:327:ILE:HD11	2.03	0.40
2:G:400:TYR:O	2:G:409:TYR:N	2.50	0.40
2:G:418:GLU:HB3	2:G:426:GLN:HE22	1.85	0.40
3:H:133:GLU:OE1	3:H:133:GLU:N	2.54	0.40
4:J:33:DA:C8	4:J:34:DT:C4	3.10	0.40
1:A:17:GLU:O	1:A:21:ALA:N	2.54	0.40
1:A:134:LEU:HD23	1:A:134:LEU:HA	1.90	0.40
1:A:173:LYS:HE2	1:A:173:LYS:HB2	1.86	0.40
1:A:519:TRP:HB3	1:A:521:VAL:HG23	2.03	0.40
1:A:579:LEU:HD23	1:A:579:LEU:HA	1.91	0.40
1:A:585:ILE:HA	1:A:611:ASN:O	2.22	0.40
1:A:789:TYR:HB3	1:A:793:LEU:HD13	2.03	0.40
1:A:798:GLY:HA2	1:A:801:LYS:HG2	2.03	0.40
1:A:890:LYS:HE2	1:A:906:PHE:CG	2.57	0.40
1:A:1039:TRP:HA	1:A:1043:GLN:H	1.86	0.40
1:A:1149:LYS:HD2	1:A:1149:LYS:HA	1.88	0.40
1:A:1209:LYS:HZ1	1:A:1276:VAL:HA	1.85	0.40
1:A:1873:TYR:O	1:A:1877:LEU:HD23	2.21	0.40
1:A:2162:LYS:C	1:A:2164:TRP:H	2.24	0.40
1:A:2397:CYS:O	1:A:2401:VAL:HG23	2.22	0.40
1:A:3036:TYR:O	1:A:3039:THR:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3413:TYR:HB3	1:A:3453:ALA:CB	2.51	0.40
1:A:3474:ARG:NH1	1:A:3474:ARG:HB2	2.36	0.40
1:A:3602:ASN:OD1	1:A:3602:ASN:N	2.54	0.40
1:A:3820:MET:HE1	1:A:3825:LYS:HB2	2.02	0.40
1:A:3883:LEU:HG	1:A:3884:LYS:HD3	2.03	0.40
1:A:3967:PHE:O	1:A:3970:LEU:N	2.55	0.40
1:A:4000:ASN:O	1:A:4004:VAL:HG22	2.21	0.40
2:B:49:PHE:HZ	2:B:131:PHE:HB3	1.86	0.40
2:B:219:ASP:CG	2:B:220:ILE:H	2.23	0.40
2:B:325:ARG:NH2	2:B:327:ILE:HD13	2.36	0.40
3:C:553:ILE:HG13	3:C:554:PHE:H	1.86	0.40
1:F:11:SER:O	1:F:14:ARG:HG3	2.22	0.40
1:F:132:ILE:HA	1:F:135:LEU:HD12	2.03	0.40
1:F:254:LYS:CE	1:F:268:PRO:HB3	2.52	0.40
1:F:391:ARG:O	1:F:395:MET:HG2	2.22	0.40
1:F:422:LEU:HD21	1:F:548:GLU:HG3	2.03	0.40
1:F:457:CYS:O	1:F:460:ALA:N	2.54	0.40
1:F:539:GLN:OE1	1:F:539:GLN:N	2.45	0.40
1:F:632:GLU:O	1:F:635:PRO:HD2	2.22	0.40
1:F:971:ARG:CZ	1:F:971:ARG:HA	2.50	0.40
1:F:1000:LYS:HZ3	1:F:1004:GLN:HB3	1.87	0.40
1:F:1447:ARG:HH11	1:F:1447:ARG:HB2	1.86	0.40
1:F:1504:ASP:O	1:F:1508:LYS:N	2.46	0.40
1:F:1924:THR:HG22	1:F:1924:THR:O	2.21	0.40
1:F:2216:LEU:O	1:F:2219:LEU:HB2	2.21	0.40
1:F:2287:PRO:HD3	1:F:2329:TYR:CD2	2.55	0.40
1:F:2541:ALA:O	1:F:2544:SER:OG	2.34	0.40
1:F:2555:LEU:HD13	1:F:2854:PHE:HD1	1.86	0.40
1:F:2950:LYS:HE2	1:F:2950:LYS:HB3	1.93	0.40
1:F:3269:ARG:HH11	1:F:3270:ASP:H	1.70	0.40
1:F:3333:THR:O	1:F:3337:ILE:HG12	2.21	0.40
1:F:3686:TRP:O	1:F:3690:PHE:HB2	2.21	0.40
1:F:3952:PHE:O	1:F:3953:LEU:HD22	2.21	0.40
3:H:363:LYS:HA	3:H:419:LEU:O	2.20	0.40
1:A:100:ILE:C	1:A:102:PRO:HD2	2.41	0.40
1:A:261:ASP:CG	3:C:551:GLN:HE22	2.25	0.40
1:A:346:TYR:CE2	1:A:350:ARG:HD2	2.56	0.40
1:A:939:MET:O	1:A:942:LEU:HB2	2.21	0.40
1:A:1204:PRO:O	1:A:1208:LEU:HG	2.21	0.40
1:A:1294:VAL:HA	1:A:1297:PHE:CD2	2.57	0.40
1:A:1686:LEU:O	1:A:1689:LYS:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1956:PHE:O	1:A:1956:PHE:CG	2.75	0.40
1:A:2201:THR:OG1	1:A:2203:THR:HG22	2.21	0.40
1:A:2457:PRO:HA	1:A:2460:GLU:CD	2.42	0.40
1:A:2869:LEU:HD21	1:A:2895:GLU:C	2.42	0.40
1:A:2941:GLY:HA3	1:A:3978:GLY:HA2	2.02	0.40
1:A:3144:PHE:HA	1:A:3150:ASN:ND2	2.34	0.40
1:A:3635:THR:HA	1:A:3638:LYS:HD2	2.02	0.40
2:B:204:HIS:NE2	2:B:213:ILE:HB	2.36	0.40
2:B:296:VAL:HG12	3:C:297:LEU:HA	2.03	0.40
2:B:509:PRO:HA	2:B:514:MET:SD	2.61	0.40
3:C:77:ILE:HG21	3:C:113:VAL:HG21	2.02	0.40
3:C:604:GLN:O	3:C:604:GLN:HG3	2.22	0.40
1:F:200:PHE:HB3	1:F:224:LEU:HD21	2.04	0.40
1:F:278:HIS:CD2	1:F:281:GLN:HG3	2.57	0.40
1:F:339:GLN:O	1:F:343:GLU:HG3	2.22	0.40
1:F:352:VAL:O	1:F:353:ASP:HB2	2.21	0.40
1:F:1195:VAL:HA	1:F:1198:LEU:HD12	2.03	0.40
1:F:1330:TYR:O	1:F:1334:LYS:HG3	2.21	0.40
1:F:1762:MET:HA	1:F:1765:VAL:HG12	2.03	0.40
1:F:1801:VAL:HA	1:F:1804:MET:HE2	2.02	0.40
1:F:2372:PRO:O	1:F:2374:LEU:N	2.51	0.40
1:F:2443:MET:CE	1:F:2476:ILE:HG12	2.51	0.40
1:F:2479:TRP:O	1:F:2482:ASP:HB2	2.21	0.40
1:F:2532:PRO:HB2	1:F:2537:ASP:HB3	2.02	0.40
1:F:2812:LEU:O	1:F:2816:ILE:HG12	2.21	0.40
1:F:2969:ALA:HB2	1:F:3001:CYS:SG	2.61	0.40
1:F:3006:ALA:HA	1:F:3008:TRP:CZ3	2.56	0.40
1:F:3096:VAL:HA	1:F:3099:ALA:HB3	2.04	0.40
1:F:3275:SER:HA	1:F:3278:GLN:HE22	1.86	0.40
1:F:3641:ASP:O	1:F:3642:LYS:HG2	2.21	0.40
1:F:3746:ARG:HA	1:F:3746:ARG:HH11	1.80	0.40
1:F:3813:LYS:HZ2	1:F:3925:LEU:HB3	1.85	0.40
1:F:3820:MET:HB3	1:F:3824:GLU:OE1	2.20	0.40
2:G:433:GLN:HA	2:G:433:GLN:OE1	2.20	0.40
3:H:269:GLN:NE2	3:H:359:ASN:O	2.54	0.40
1:A:11:SER:HA	1:A:14:ARG:NE	2.36	0.40
1:A:152:LEU:HD13	1:A:155:LYS:HZ3	1.86	0.40
1:A:238:MET:SD	1:A:243:GLN:HB3	2.61	0.40
1:A:267:VAL:N	1:A:268:PRO:HD2	2.37	0.40
1:A:322:GLN:C	1:A:324:SER:N	2.75	0.40
1:A:405:ASP:HB2	1:A:406:ARG:HH11	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1783:ARG:HG2	1:A:1830:HIS:NE2	2.36	0.40
1:A:1789:GLY:C	1:A:1794:GLN:HE22	2.24	0.40
1:A:1848:ILE:HA	1:A:1851:LEU:HD12	2.03	0.40
1:A:1927:MET:SD	1:A:1928:ALA:N	2.95	0.40
1:A:2840:PHE:O	1:A:2844:LEU:HD23	2.21	0.40
1:A:3037:GLN:HA	1:A:3040:TYR:HD2	1.87	0.40
1:A:3244:ASP:OD1	1:A:3247:ARG:NH2	2.55	0.40
1:A:3258:LEU:O	1:A:3262:LEU:HG	2.21	0.40
1:A:3307:LEU:O	1:A:3308:ASP:HB2	2.22	0.40
1:A:3646:LYS:HE3	1:A:3651:LEU:H	1.87	0.40
1:A:3671:ASN:N	1:A:3671:ASN:OD1	2.55	0.40
1:A:3884:LYS:HZ3	1:A:3901:ARG:HH12	1.69	0.40
1:A:4113:ASP:O	1:A:4117:LEU:HG	2.21	0.40
2:B:50:GLU:O	2:B:52:GLN:HG2	2.20	0.40
2:B:95:ASN:HD21	2:B:99:PHE:H	1.70	0.40
2:B:259:LEU:HG	2:B:260:LYS:N	2.37	0.40
2:B:385:LEU:HD23	2:B:432:PHE:CE1	2.56	0.40
2:B:417:GLU:OE1	2:B:417:GLU:N	2.54	0.40
2:B:420:LEU:CD2	2:B:424:LYS:HA	2.52	0.40
2:B:442:ASP:OD2	3:C:267:ILE:HD12	2.21	0.40
3:C:20:MET:HA	3:C:137:ASP:OD1	2.21	0.40
3:C:89:ASP:OD1	3:C:90:LEU:HD12	2.21	0.40
3:C:346:CYS:SG	3:C:347:LYS:N	2.94	0.40
3:C:366:ALA:O	3:C:368:ARG:NH1	2.52	0.40
3:C:448:GLU:HA	3:C:451:LEU:HD12	2.04	0.40
1:F:163:LYS:HZ3	2:G:311:LEU:HB3	1.86	0.40
1:F:646:VAL:HG23	1:F:647:TYR:N	2.36	0.40
1:F:852:ARG:HA	1:F:855:VAL:HB	2.02	0.40
1:F:909:VAL:HB	1:F:910:PHE:CE2	2.56	0.40
1:F:1001:PHE:HB3	1:F:1002:GLU:OE1	2.22	0.40
1:F:1096:VAL:HG23	1:F:1141:LYS:NZ	2.25	0.40
1:F:1483:LEU:O	1:F:1487:VAL:HG12	2.21	0.40
1:F:1700:THR:HA	1:F:1707:LEU:HD21	2.04	0.40
1:F:1845:VAL:HG13	1:F:1846:ASP:N	2.37	0.40
1:F:2105:HIS:HB2	1:F:2156:VAL:HG23	2.02	0.40
1:F:2162:LYS:HG3	1:F:2163:HIS:N	2.36	0.40
1:F:2169:LEU:CD2	1:F:2208:ASP:HB2	2.50	0.40
1:F:2207:LYS:HD2	1:F:2208:ASP:N	2.36	0.40
1:F:2383:PHE:HB3	1:F:2418:LYS:CE	2.51	0.40
1:F:2439:ILE:HA	1:F:2442:MET:CG	2.48	0.40
1:F:2484:TYR:CD1	1:F:2495:SER:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2534:ASN:HB3	1:F:2537:ASP:HB3	2.04	0.40
1:F:2554:PHE:CD1	1:F:2557:LEU:HB2	2.50	0.40
1:F:2560:ASN:HA	1:F:2563:LEU:HD12	2.03	0.40
1:F:2852:PRO:HG3	1:F:2883:SER:HA	2.02	0.40
1:F:2887:PRO:HG2	1:F:3895:GLU:OE2	2.21	0.40
1:F:3044:MET:O	1:F:3047:SER:OG	2.32	0.40
1:F:3090:TYR:CE2	1:F:3098:ARG:HG2	2.57	0.40
1:F:3147:LYS:HD3	1:F:3150:ASN:H	1.86	0.40
1:F:3641:ASP:OD1	1:F:3642:LYS:N	2.49	0.40
1:F:3652:LEU:HD12	1:F:3652:LEU:HA	1.86	0.40
1:F:3717:VAL:HA	1:F:3743:HIS:CE1	2.56	0.40
1:F:3856:MET:O	1:F:3860:LYS:HG3	2.21	0.40
1:F:4044:ILE:HG13	1:F:4045:CYS:N	2.36	0.40
1:F:4102:THR:HA	1:F:4105:LYS:HZ2	1.86	0.40
1:F:4103:GLN:O	1:F:4107:LEU:HG	2.21	0.40
2:G:59:PRO:HB3	2:G:205:LEU:HD12	2.04	0.40
2:G:386:LEU:HD23	2:G:386:LEU:HA	1.95	0.40
3:H:208:VAL:O	3:H:211:VAL:HB	2.21	0.40
3:H:456:ALA:HB1	3:H:529:PRO:HB3	2.04	0.40
3:H:520:ALA:O	3:H:524:THR:HG23	2.21	0.40
3:H:727:ASP:HA	3:H:730:ASP:OD2	2.20	0.40
6:D:22:DG:C6	7:E:34:DC:C4	3.09	0.40
1:A:38:LEU:HA	1:A:41:GLU:OE1	2.22	0.40
1:A:99:LYS:HD2	1:A:99:LYS:HA	1.82	0.40
1:A:251:PHE:HD1	1:A:254:LYS:HD2	1.86	0.40
1:A:363:ILE:HG13	1:A:364:ARG:N	2.36	0.40
1:A:392:CYS:O	1:A:395:MET:HG2	2.22	0.40
1:A:960:GLN:HA	1:A:963:LYS:HZ2	1.86	0.40
1:A:1107:TYR:HE2	1:A:1131:ILE:CD1	2.34	0.40
1:A:1850:VAL:HG12	1:A:1870:LYS:HG2	2.04	0.40
1:A:2386:LEU:HD13	1:A:2397:CYS:HB3	2.03	0.40
1:A:2887:PRO:HA	1:A:2890:ILE:HD12	2.04	0.40
1:A:3124:SER:OG	1:A:3125:ARG:N	2.55	0.40
1:A:3753:LYS:NZ	1:A:3756:GLU:HB2	2.36	0.40
1:A:3953:LEU:CD1	1:A:4027:TRP:HB2	2.47	0.40
1:A:3968:ILE:HD13	1:A:3976:GLU:OE1	2.21	0.40
2:B:35:ARG:HB2	2:B:160:LYS:O	2.21	0.40
2:B:262:LYS:CB	2:B:268:VAL:HG12	2.47	0.40
2:B:282:LYS:HE3	7:E:26:DA:OP2	2.22	0.40
2:B:288:LEU:HD12	3:C:322:PRO:HA	2.04	0.40
2:B:325:ARG:HD2	2:B:325:ARG:HA	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:519:GLY:O	2:B:522:VAL:HG12	2.21	0.40
3:C:384:LEU:HD12	3:C:389:MET:O	2.21	0.40
3:C:616:LEU:HA	3:C:619:HIS:HD1	1.86	0.40
1:F:54:GLN:O	1:F:58:VAL:HG22	2.21	0.40
1:F:647:TYR:CD1	1:F:699:GLU:HB2	2.55	0.40
1:F:678:LYS:HZ1	1:F:683:PHE:HB2	1.86	0.40
1:F:1145:LEU:CD1	1:F:1151:ARG:HH21	2.34	0.40
1:F:1453:SER:HA	1:F:1456:LYS:NZ	2.36	0.40
1:F:2347:LYS:HA	1:F:2350:LYS:NZ	2.36	0.40
1:F:3034:PRO:O	1:F:3038:GLU:HG3	2.21	0.40
1:F:3049:LEU:HD23	1:F:3052:LEU:HD12	2.03	0.40
1:F:3076:ALA:O	1:F:3079:GLU:HG3	2.21	0.40
1:F:3810:VAL:N	1:F:3930:VAL:O	2.44	0.40
1:F:4056:PRO:O	1:F:4060:THR:HG23	2.22	0.40
1:F:4125:GLU:OE1	1:F:4125:GLU:N	2.54	0.40
2:G:173:ASP:OD2	2:G:214:SER:N	2.55	0.40
2:G:351:LYS:NZ	3:H:463:LEU:HB3	2.37	0.40
3:H:413:LYS:HD3	3:H:413:LYS:HA	1.96	0.40
3:H:654:ARG:HE	3:H:658:PHE:HZ	1.69	0.40
7:E:40:DT:H4'	7:E:41:DT:OP1	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	3714/4156 (89%)	3263 (88%)	446 (12%)	5 (0%)	51 86
1	F	3675/4156 (88%)	3257 (89%)	416 (11%)	2 (0%)	51 86
2	B	485/609 (80%)	422 (87%)	63 (13%)	0	100 100
2	G	485/609 (80%)	428 (88%)	56 (12%)	1 (0%)	47 81

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
3	C	699/732 (96%)	633 (91%)	66 (9%)	0	100 100
3	H	694/732 (95%)	625 (90%)	69 (10%)	0	100 100
All	All	9752/10994 (89%)	8628 (88%)	1116 (11%)	8 (0%)	54 86

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	446	PHE
1	A	3487	ILE
2	G	372	GLU
1	F	2257	PHE
1	A	2333	ARG
1	A	2945	SER
1	F	3479	THR
1	A	3320	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	3033/3671 (83%)	3004 (99%)	29 (1%)	76 86
1	F	3087/3671 (84%)	3063 (99%)	24 (1%)	81 89
2	B	400/548 (73%)	391 (98%)	9 (2%)	50 70
2	G	402/548 (73%)	395 (98%)	7 (2%)	60 78
3	C	591/649 (91%)	590 (100%)	1 (0%)	93 96
3	H	601/649 (93%)	597 (99%)	4 (1%)	84 90
All	All	8114/9736 (83%)	8040 (99%)	74 (1%)	79 87

All (74) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	ARG
1	A	90	CYS

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Mol	Chain	Res	Type
1	A	108	LYS
1	A	213	ARG
1	A	325	ASN
1	A	329	LYS
1	A	406	ARG
1	A	782	ARG
1	A	835	LYS
1	A	868	LYS
1	A	899	ARG
1	A	1193	LYS
1	A	1357	LYS
1	A	1418	HIS
1	A	1551	ILE
1	A	1573	LYS
1	A	1806	ARG
1	A	1837	ARG
1	A	2246	LYS
1	A	2425	ARG
1	A	2806	LYS
1	A	2928	LYS
1	A	2946	GLU
1	A	3098	ARG
1	A	3614	TYR
1	A	3733	ARG
1	A	3734	ARG
1	A	3739	ILE
1	A	3789	ARG
2	B	92	LYS
2	B	93	ASP
2	B	114	LYS
2	B	258	ARG
2	B	262	LYS
2	B	271	VAL
2	B	399	ARG
2	B	403	ARG
2	B	515	ASN
3	C	325	LYS
1	F	24	ARG
1	F	61	ARG
1	F	96	MET
1	F	99	LYS
1	F	205	LYS

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Mol	Chain	Res	Type
1	F	299	LYS
1	F	554	ASN
1	F	1170	LYS
1	F	1735	ARG
1	F	1784	ARG
1	F	2207	LYS
1	F	2228	ARG
1	F	2470	ARG
1	F	2806	LYS
1	F	3098	ARG
1	F	3235	LYS
1	F	3477	GLU
1	F	3557	ARG
1	F	3586	LYS
1	F	3696	ARG
1	F	3799	ARG
1	F	3901	ARG
1	F	3992	ARG
1	F	4128	MET
2	G	258	ARG
2	G	262	LYS
2	G	271	VAL
2	G	299	LYS
2	G	304	ASN
2	G	515	ASN
2	G	534	TYR
3	H	81	ARG
3	H	209	LYS
3	H	554	PHE
3	H	643	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	339	GLN
1	A	390	GLN
1	A	442	GLN
1	A	586	GLN
1	A	869	ASN
1	A	1047	GLN
1	A	1084	ASN
1	A	1367	HIS

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Mol	Chain	Res	Type
1	A	1457	GLN
1	A	1509	GLN
1	A	1625	HIS
1	A	1794	GLN
1	A	2217	ASN
1	A	2295	GLN
1	A	2306	ASN
1	A	2483	ASN
1	A	2543	ASN
1	A	3074	GLN
1	A	3263	HIS
1	A	3278	GLN
1	A	3383	GLN
1	A	3743	HIS
1	A	3787	GLN
1	A	3808	ASN
1	A	3850	HIS
2	B	101	ASN
2	B	171	ASN
2	B	485	GLN
3	C	75	GLN
3	C	298	ASN
3	C	402	ASN
3	C	514	ASN
1	F	98	GLN
1	F	191	ASN
1	F	192	ASN
1	F	339	GLN
1	F	477	ASN
1	F	857	GLN
1	F	925	GLN
1	F	982	GLN
1	F	1004	GLN
1	F	1083	ASN
1	F	1115	HIS
1	F	1146	ASN
1	F	1180	GLN
1	F	1251	GLN
1	F	1367	HIS
1	F	1457	GLN
1	F	1477	HIS
1	F	1509	GLN

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Mol	Chain	Res	Type
1	F	1625	HIS
1	F	1830	HIS
1	F	1909	ASN
1	F	2130	HIS
1	F	2432	GLN
1	F	2523	ASN
1	F	3074	GLN
1	F	3093	GLN
1	F	3133	GLN
1	F	3249	GLN
1	F	3422	GLN
1	F	3457	ASN
1	F	3470	GLN
1	F	3590	ASN
2	G	95	ASN
2	G	126	GLN
2	G	132	GLN
2	G	458	GLN
2	G	484	GLN
2	G	485	GLN
2	G	515	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	F	2
1	A	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	F	4128:MET	C	5009:UNK	N	96.98
1	A	4128:MET	C	5009:UNK	N	96.43
1	A	5016:UNK	C	6004:UNK	N	49.12
1	F	5016:UNK	C	6004:UNK	N	48.83

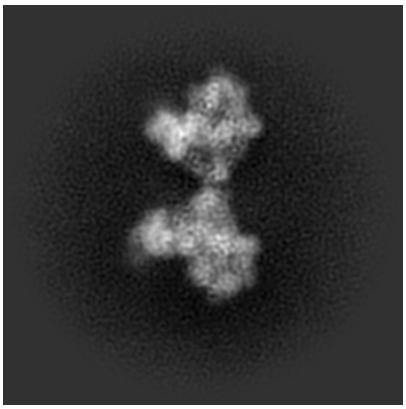
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-11219. These allow visual inspection of the internal detail of the map and identification of artifacts.

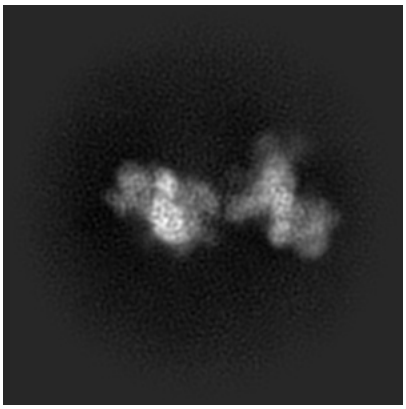
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

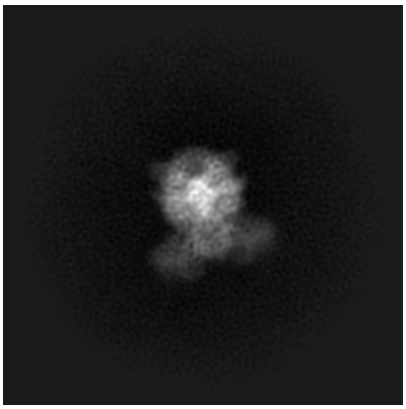
6.1.1 Primary map



X

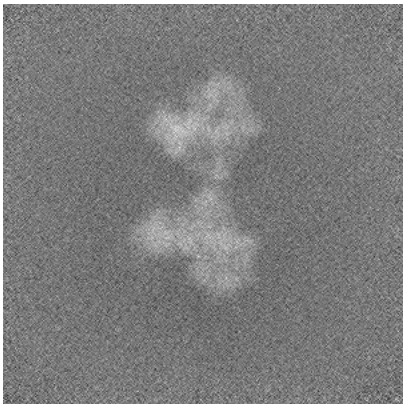


Y

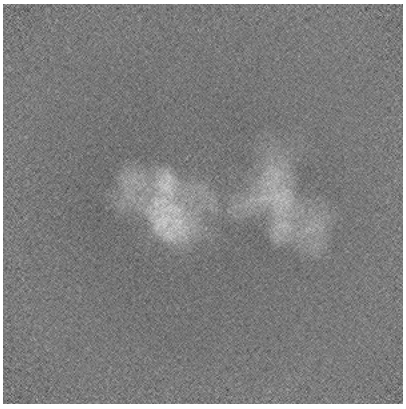


Z

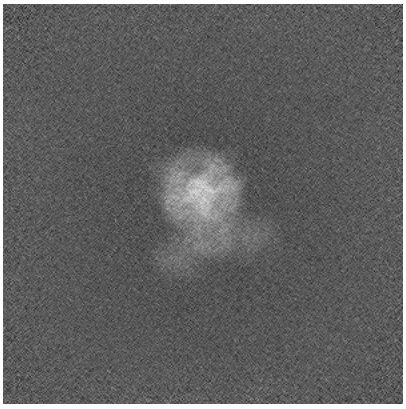
6.1.2 Raw map



X



Y

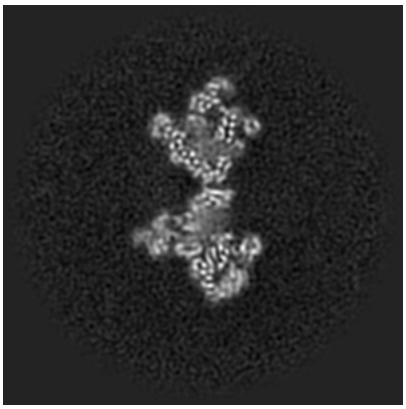


Z

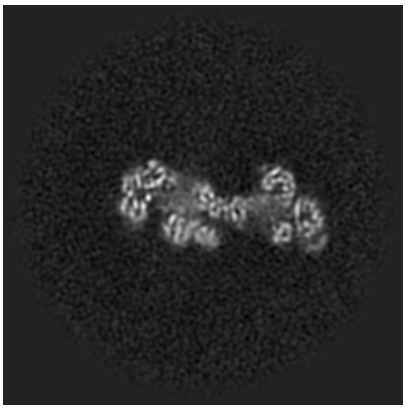
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

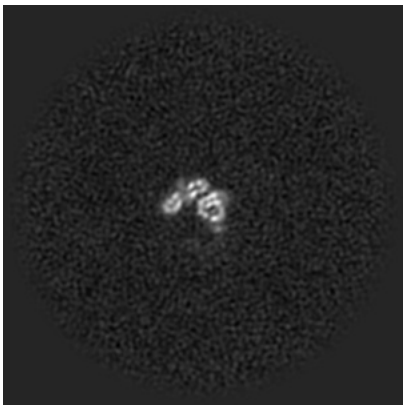
6.2.1 Primary map



X Index: 280

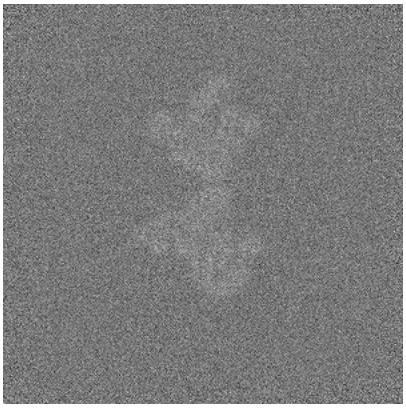


Y Index: 280

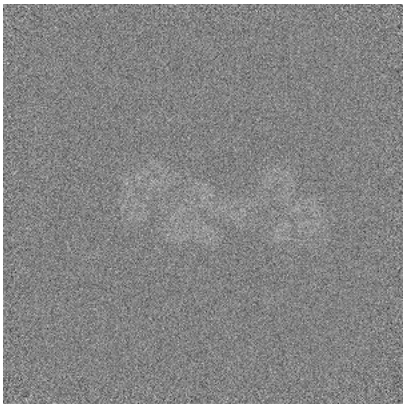


Z Index: 280

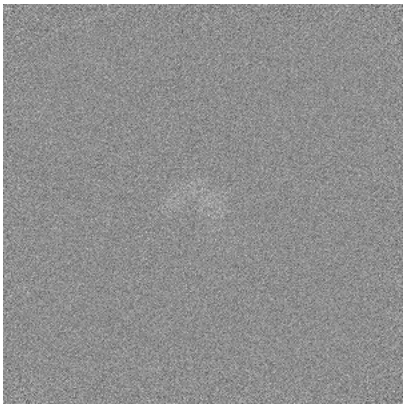
6.2.2 Raw map



X Index: 280



Y Index: 280

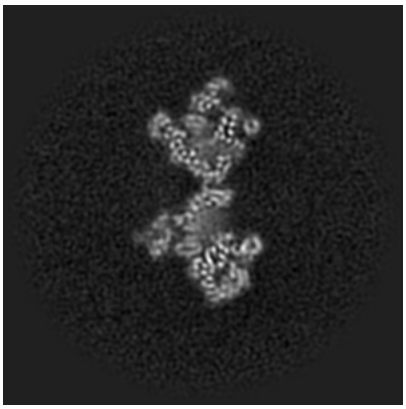


Z Index: 280

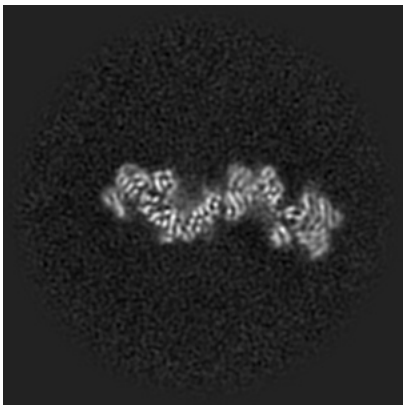
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

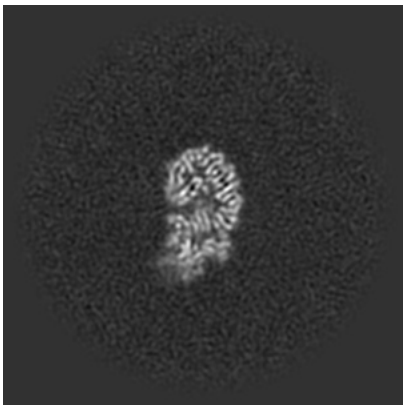
6.3.1 Primary map



X Index: 282

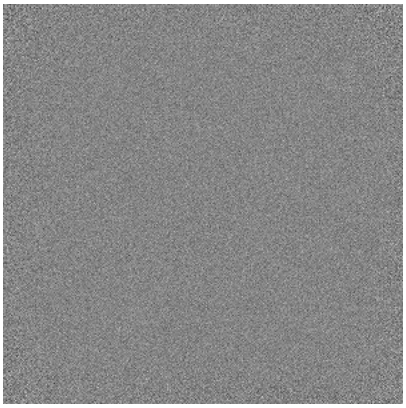


Y Index: 299

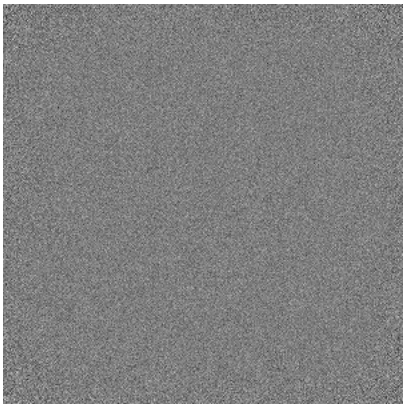


Z Index: 225

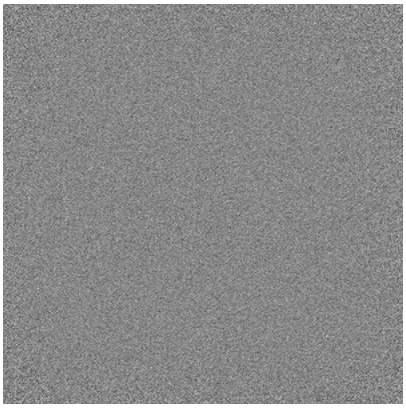
6.3.2 Raw map



X Index: 0



Y Index: 0



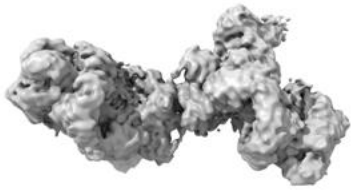
Z Index: 0

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

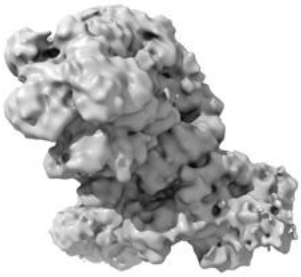
6.4 Orthogonal surface views (i)

6.4.1 Primary map

X



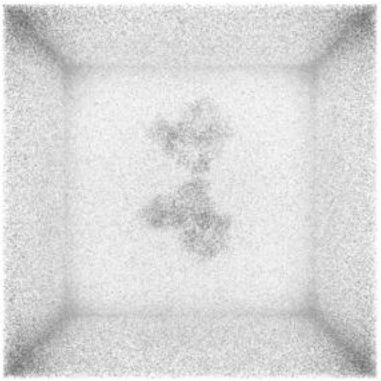
Y



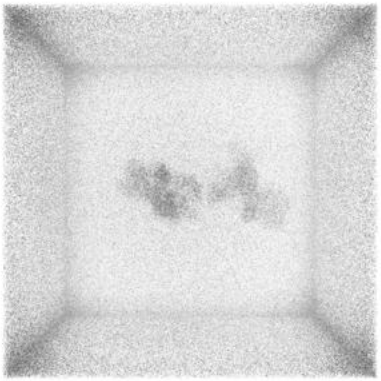
Z

The images above show the 3D surface view of the map at the recommended contour level 0.085. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

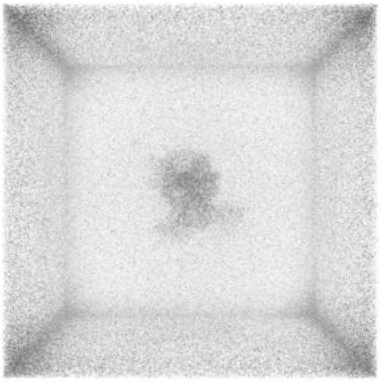
6.4.2 Raw map



X



Y



Z

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

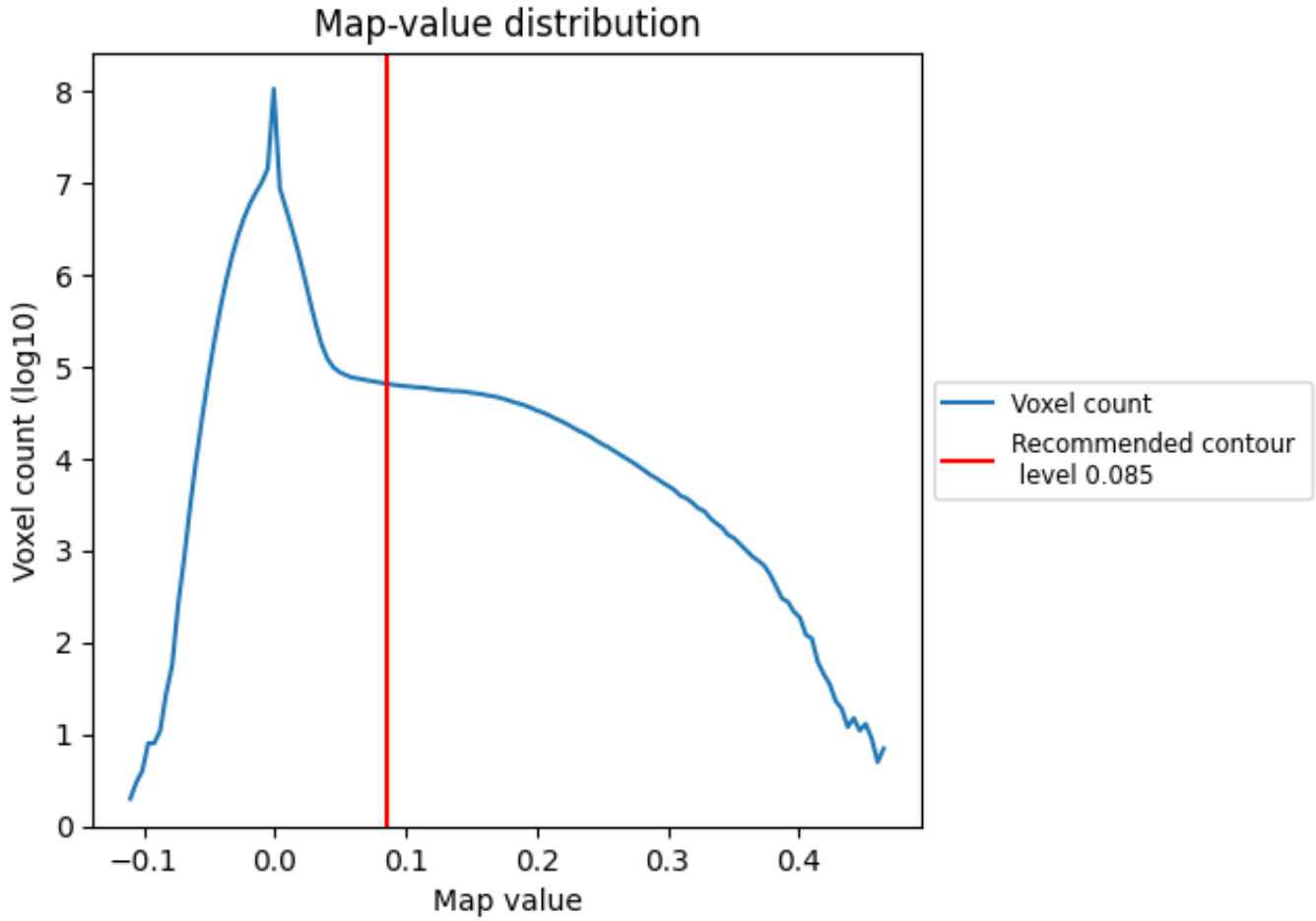
6.5 Mask visualisation (i)

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

7 Map analysis

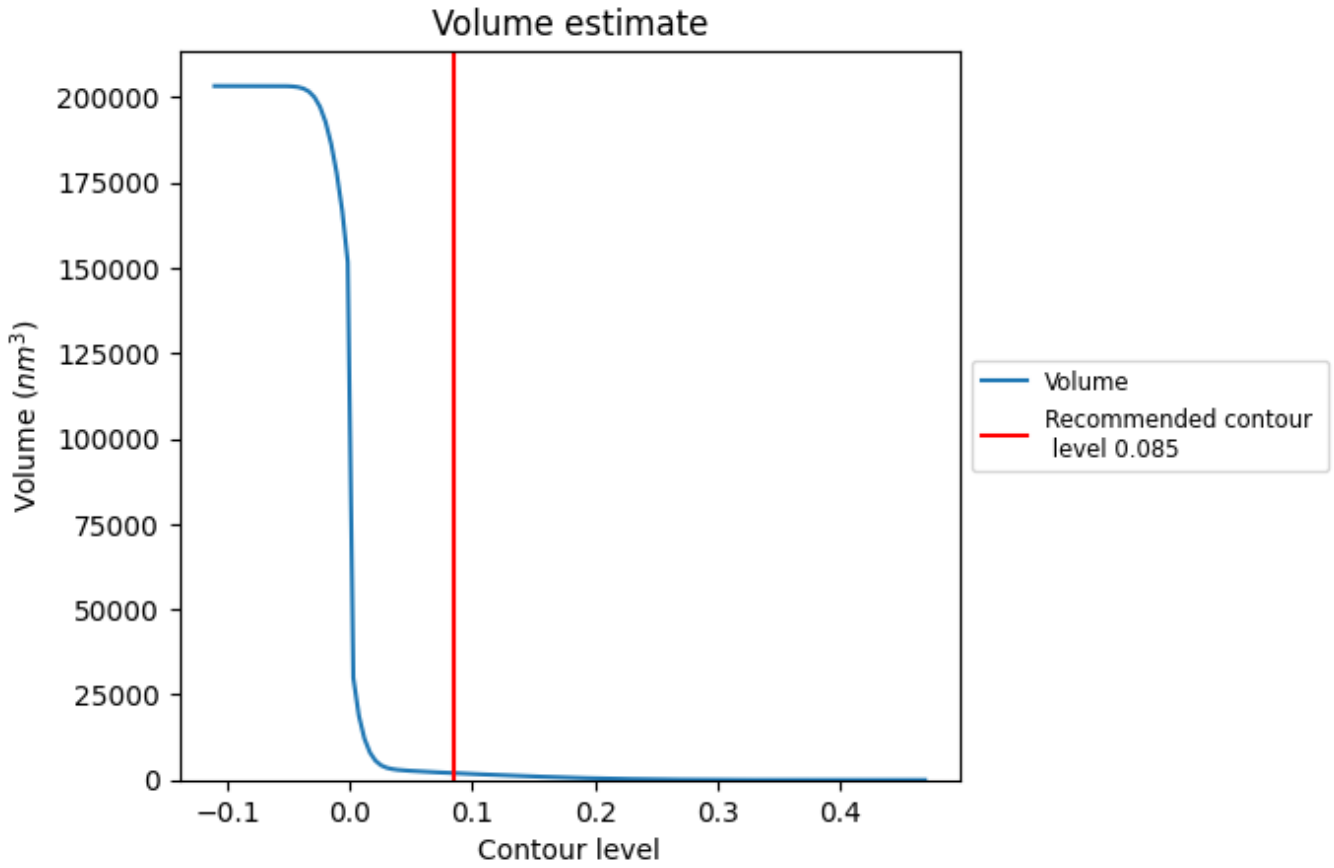
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

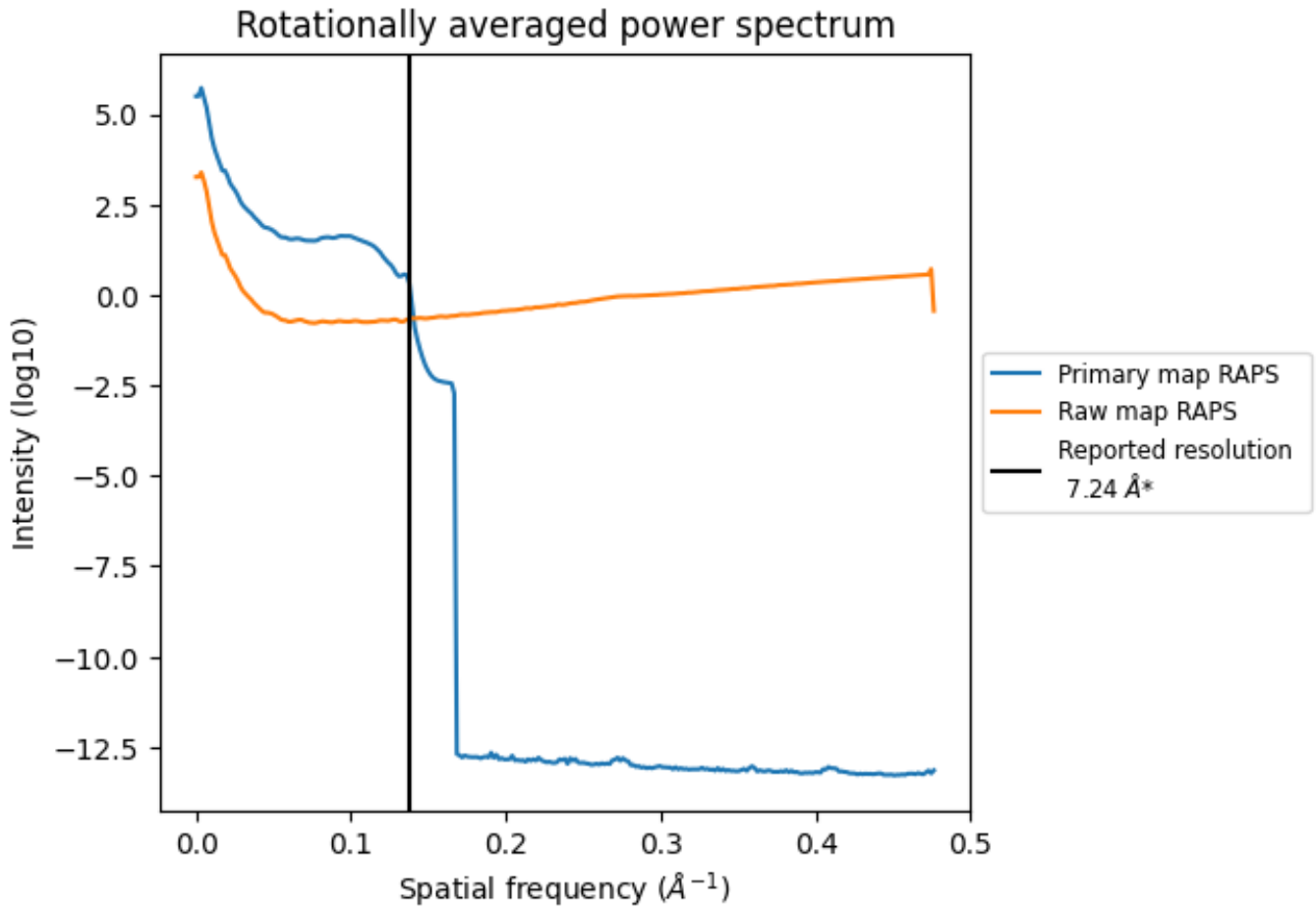
7.2 Volume estimate



The volume at the recommended contour level is 1998 nm^3; this corresponds to an approximate mass of 1805 kDa.

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

7.3 Rotationally averaged power spectrum (i)

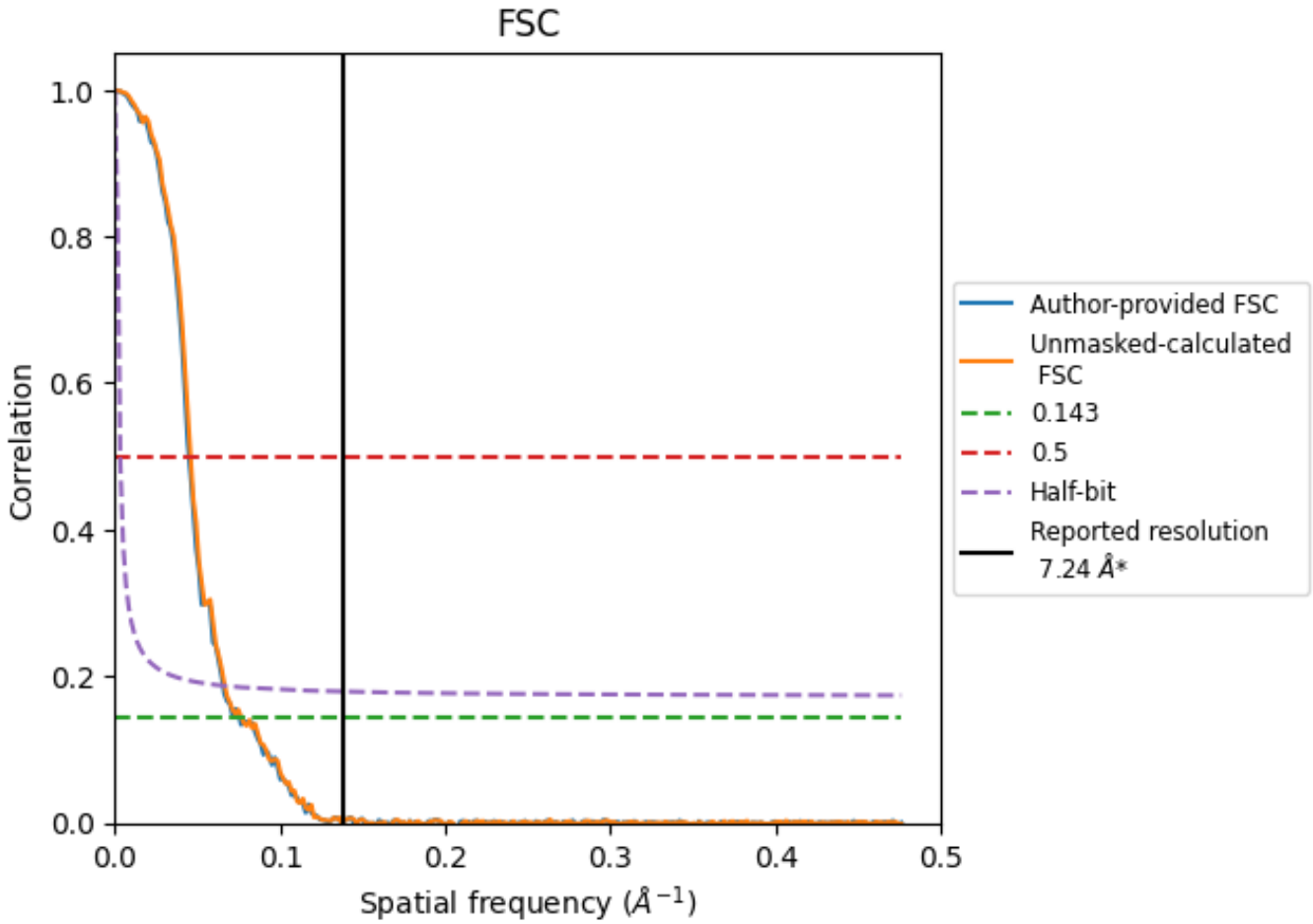


*Reported resolution corresponds to spatial frequency of 0.138 $Å^{-1}$

8 Fourier-Shell correlation

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



*Reported resolution corresponds to spatial frequency of 0.138 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.24	-	-
Author-provided FSC curve	13.23	22.27	15.24
Unmasked-calculated*	13.02	21.74	14.99

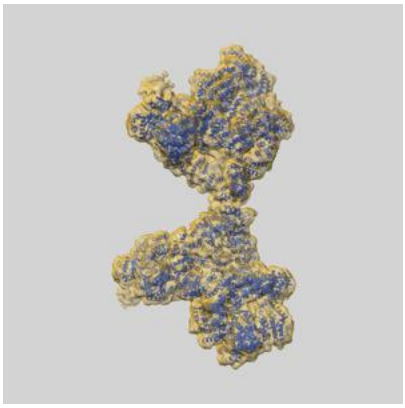
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 13.23 differs from the reported value 7.24 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 13.02 differs from the reported value 7.24 by more than 10 %

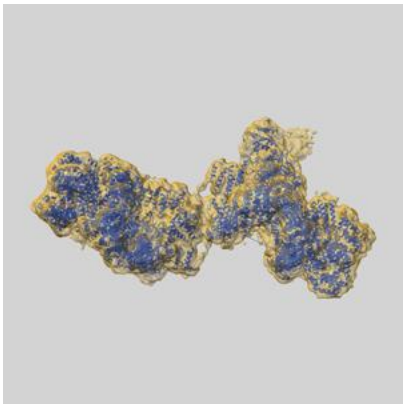
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-11219 and PDB model 6ZHE. Per-residue inclusion information can be found in section 3 on page 6.

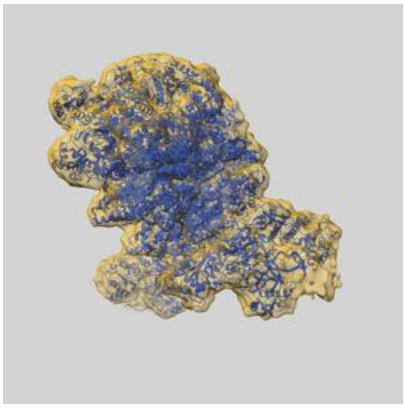
9.1 Map-model overlay



X



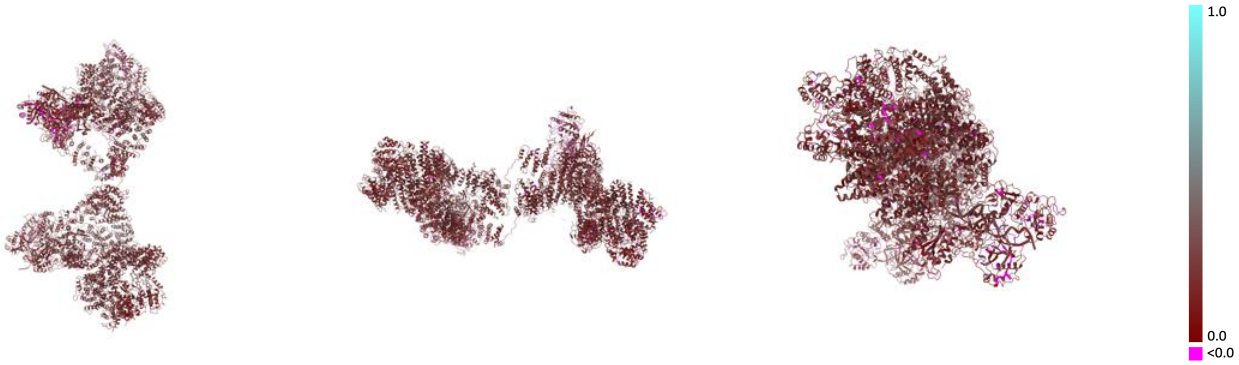
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.085 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.

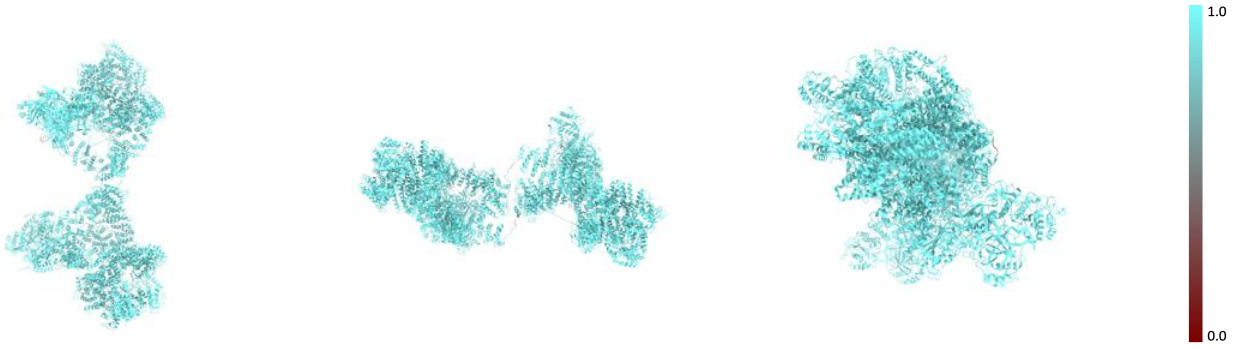
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

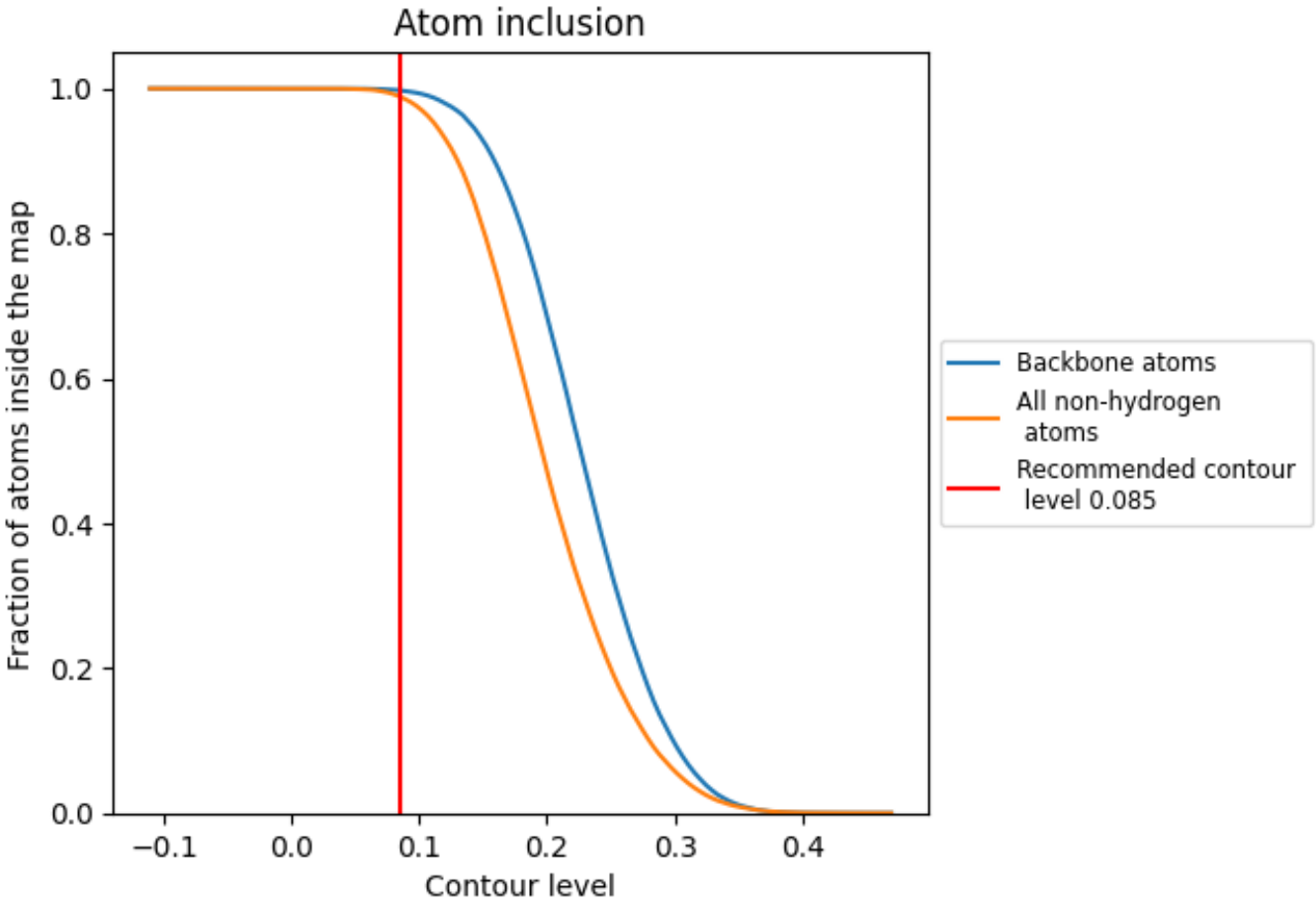
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (0.085).

9.4 Atom inclusion (i)



At the recommended contour level, 100% of all backbone atoms, 99% 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 (0.085) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9888	0.1950
A	0.9906	0.2070
B	0.9949	0.1870
C	0.9840	0.1740
D	1.0000	0.2510
E	1.0000	0.2500
F	0.9892	0.1970
G	0.9896	0.1600
H	0.9732	0.1600
I	1.0000	0.2540
J	1.0000	0.2430