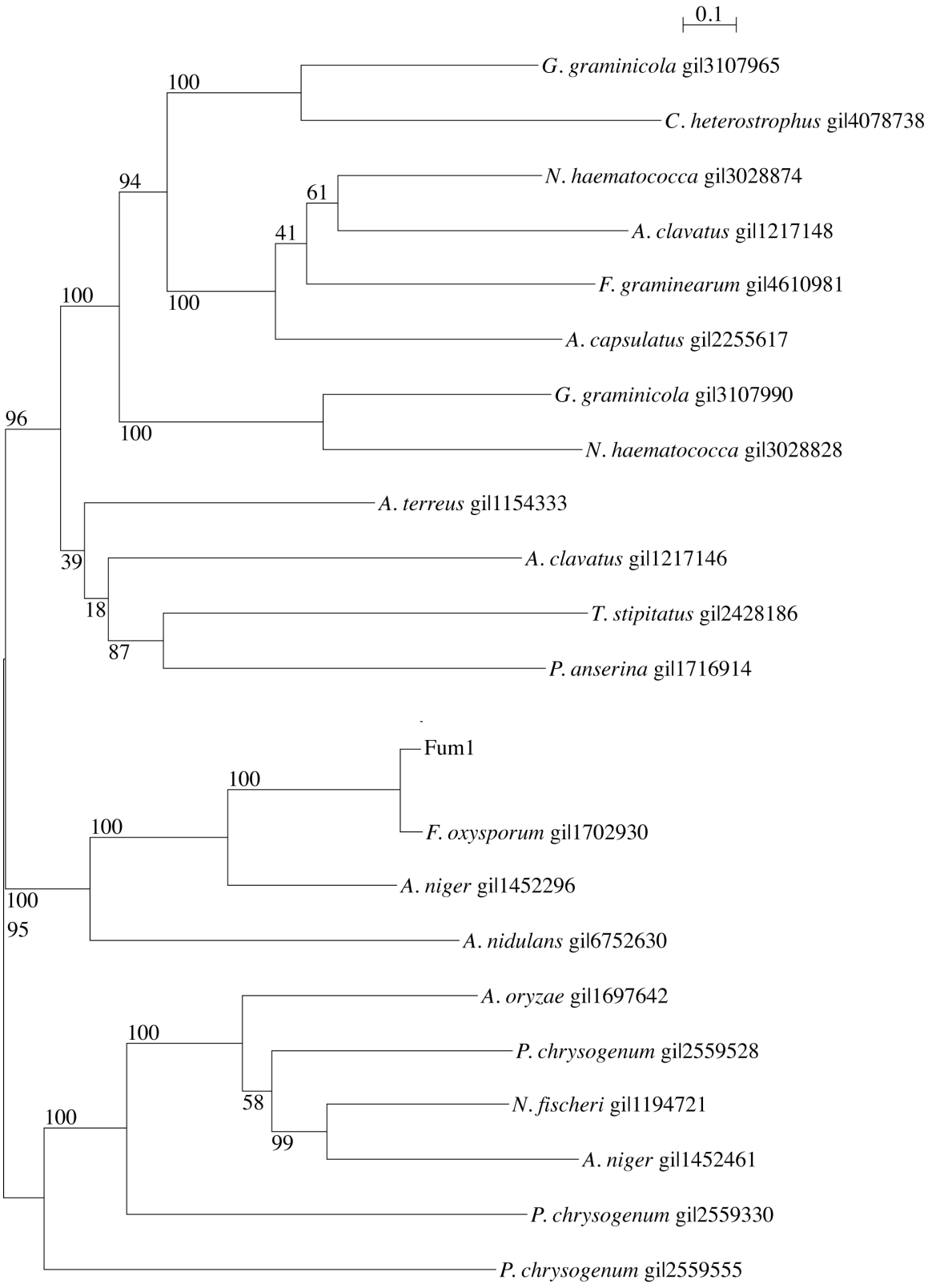
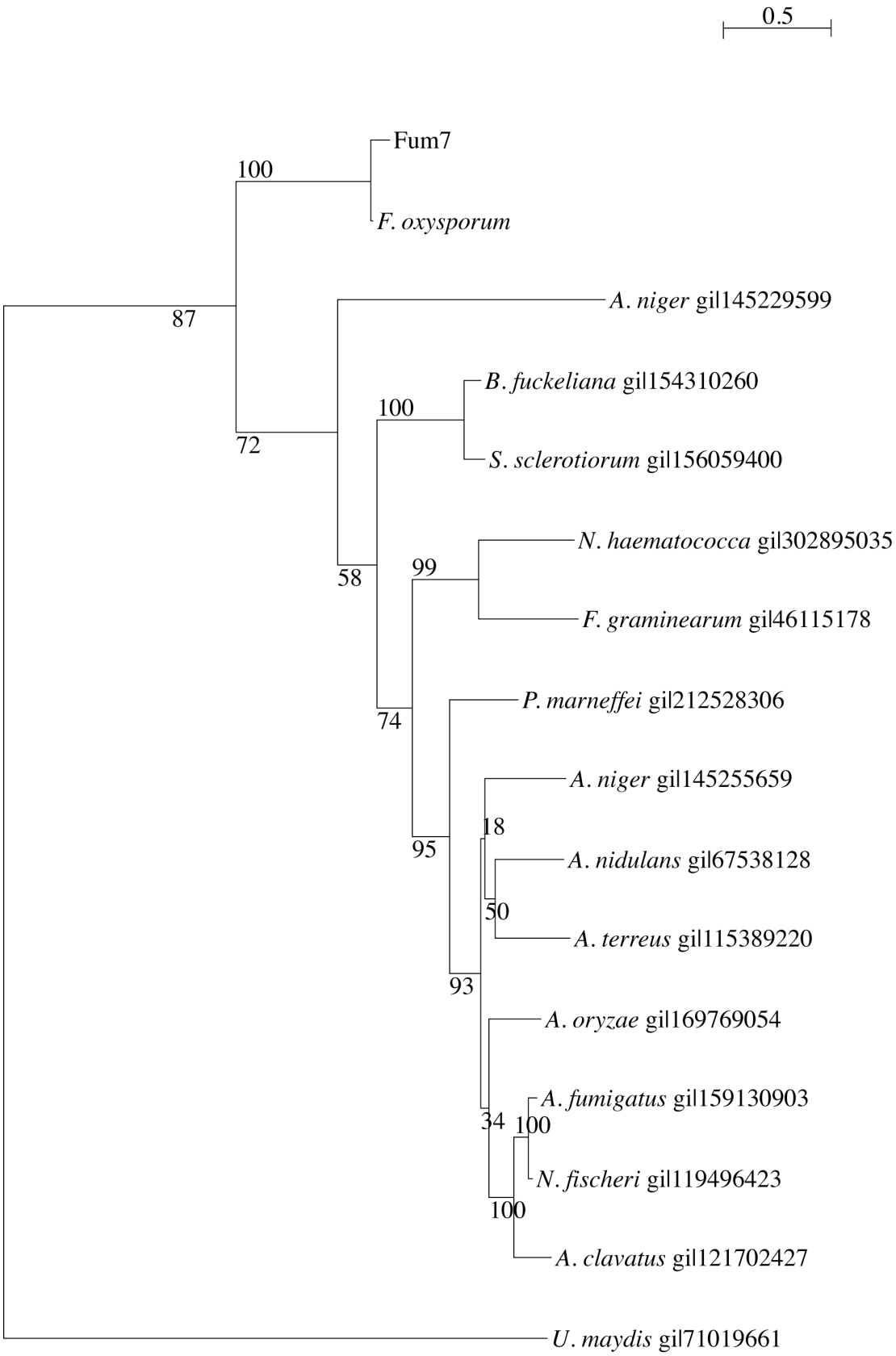
Supplementary 1. Maximum likelihood trees for the common fumonisin proteins between *F. verticillioides* and *A. niger* and their homologs. The species name and the NCBI ID are provided on each branch. Bootstrap percentages are shown for all nodes. Trees were constructed from amino acid sequences as described in Methods using PHYML after alignment with ClustalW.

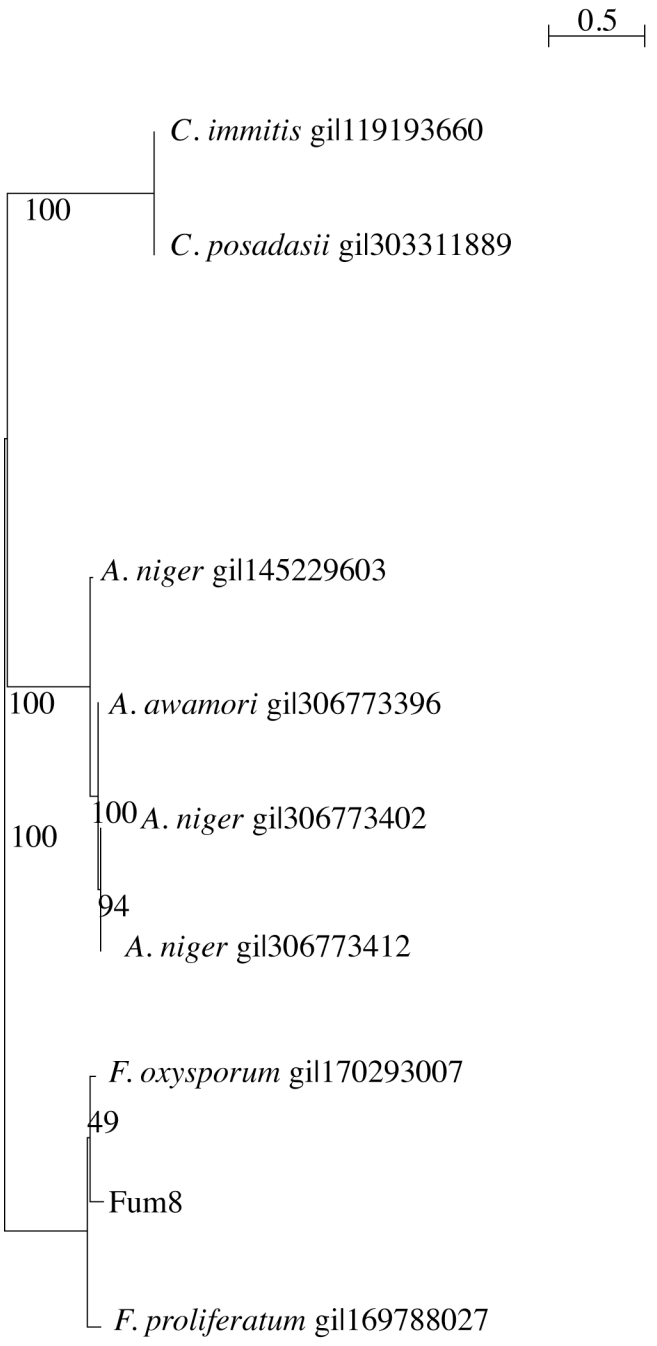
FUM1


0.1
G. graminicola gil3107965
C. heterostrophus gil4078738
N. haematococca gil3028874
A. clavatus gil1217148
F. graminearum gil4610981
A. capsulatus gil2255617
G. graminicola gil3107990
N. haematococca gil3028828
A. terreus gil1154333
A. clavatus gil1217146
T. stipitatus gil2428186
P. anserina gil1716914
Fum1
F. oxysporum gil1702930
A. niger gil1452296
A. nidulans gil6752630
A. oryzae gil1697642
P. chrysogenum gil2559528
N. fischeri gil1194721
A. niger gil1452461
P. chrysogenum gil2559330
P. chrysogenum gil2559555
100
94
61
41
100
100
96
100
39
18
87
100
100
100
95
100
58
99
100

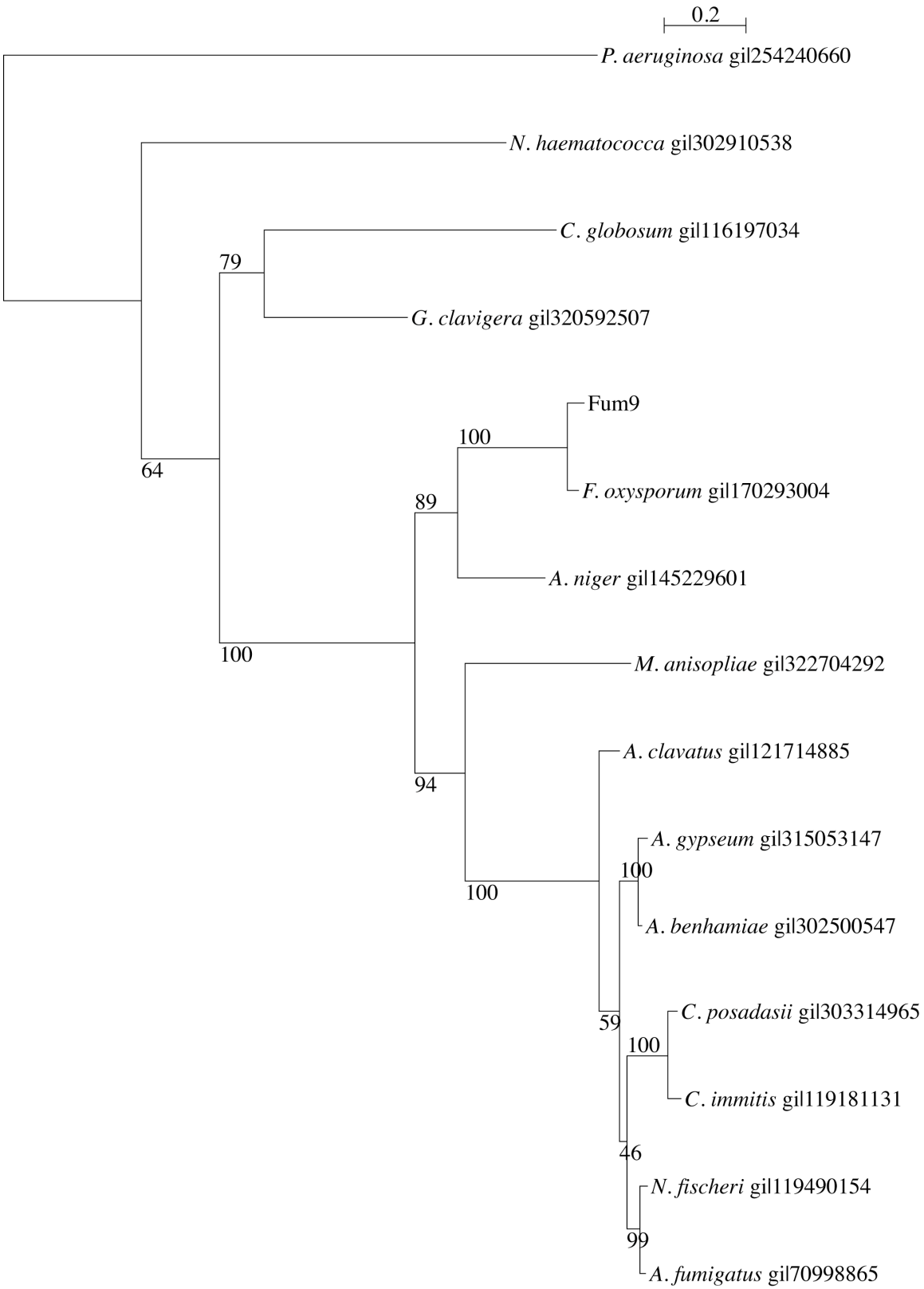
FUM7


0.5
Fum7
100
F. oxysporum
87
A. niger gil145229599
B. fuckeliana gil154310260
100
72
S. sclerotiorum gil156059400
N. haematococca gil302895035
99
58
F. graminearum gil46115178
P. marneffei gil212528306
74
A. niger gil145255659
18
95
A. nidulans gil67538128
50
A. terreus gil115389220
93
A. oryzae gil169769054
A. fumigatus gil159130903
34
100
N. fischeri gil119496423
100
A. clavatus gil121702427
U. maydis gil71019661

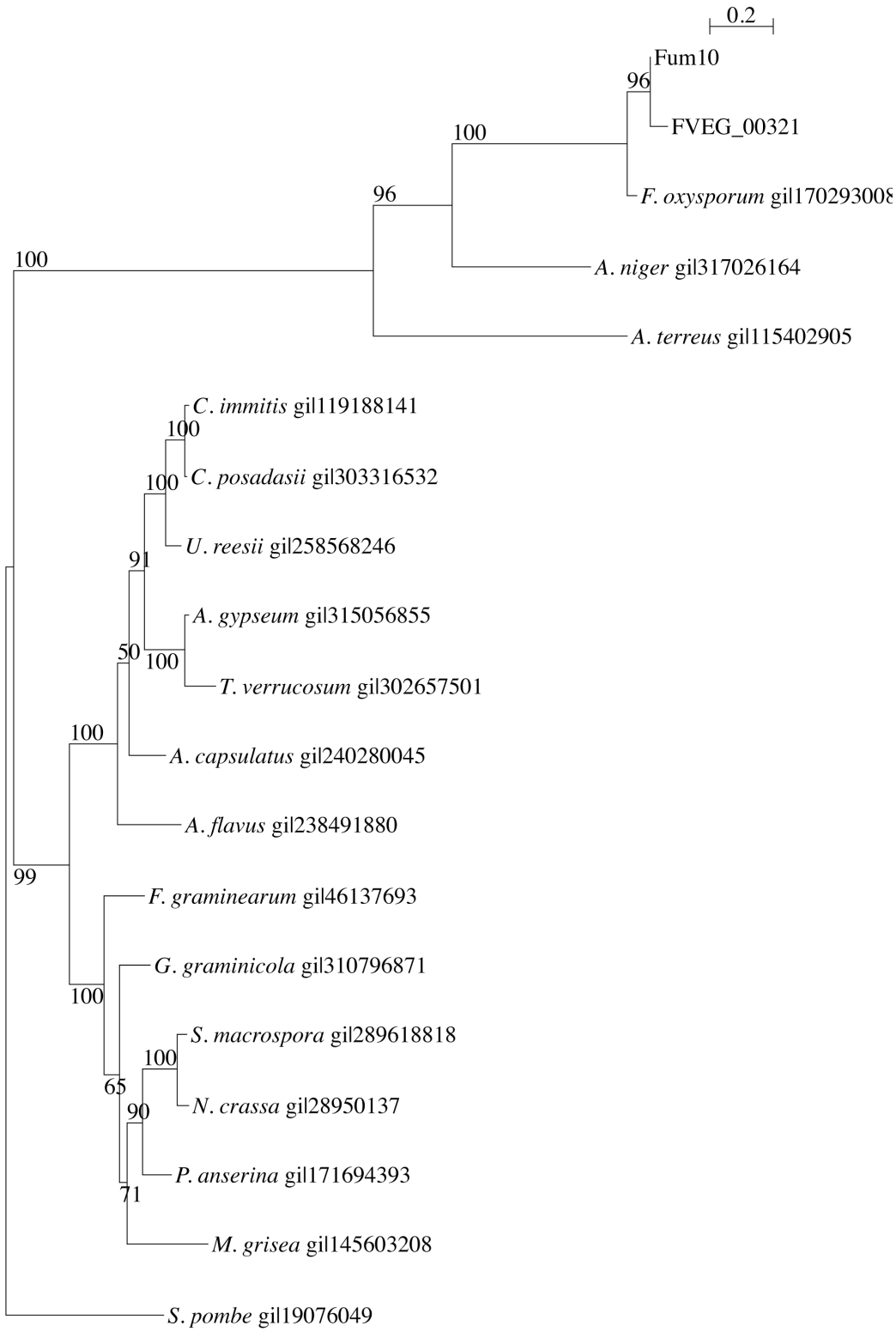
Fum8


0.5
C. immitis gil119193660
100
C. posadasii gil303311889
A. niger gil145229603
100
A. awamori gil306773396
100
A. niger gil306773402
100
94
A. niger gil306773412
F. oxysporum gil170293007
49
Fum8
F. proliferatum gil169788027

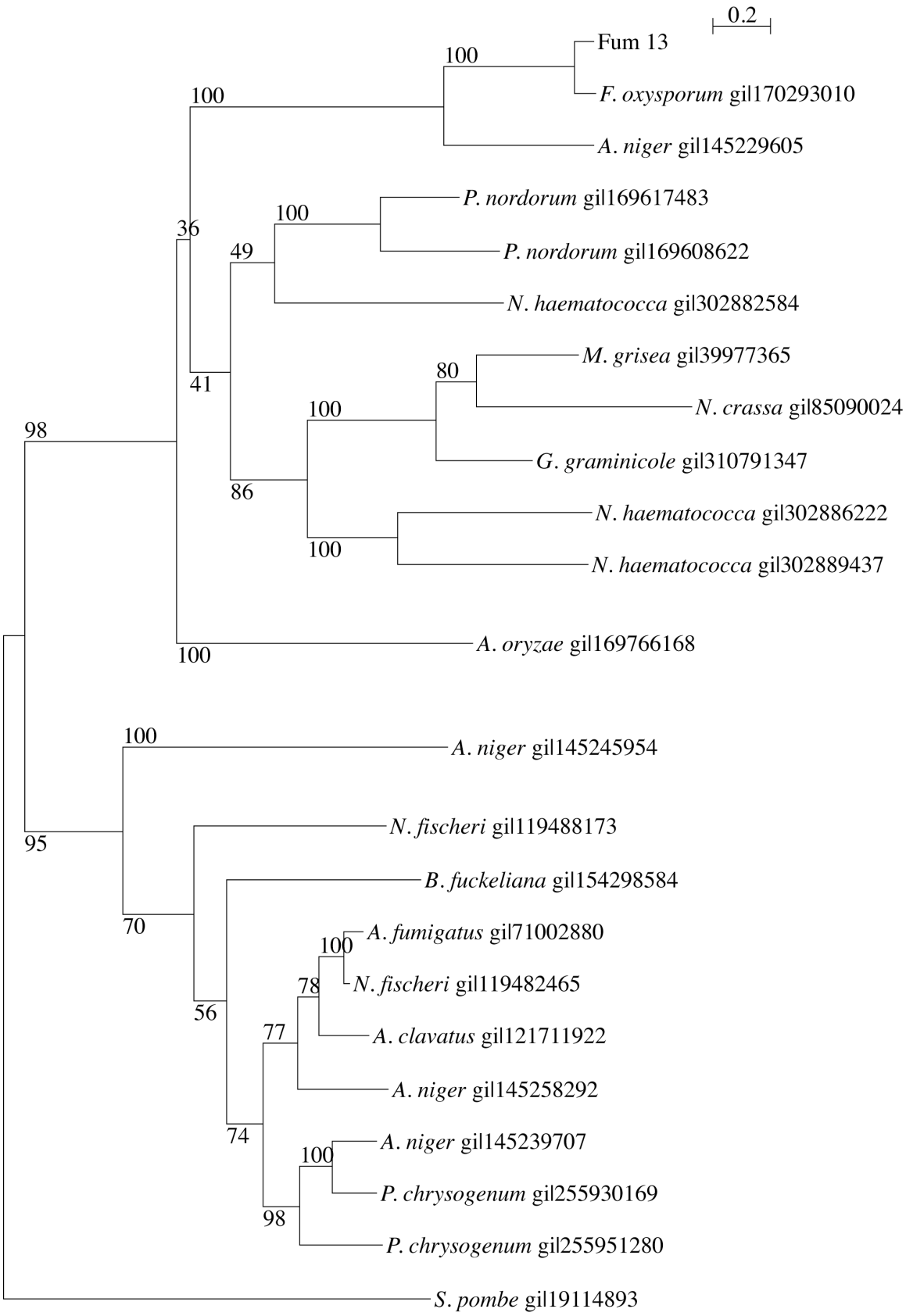
Fum9

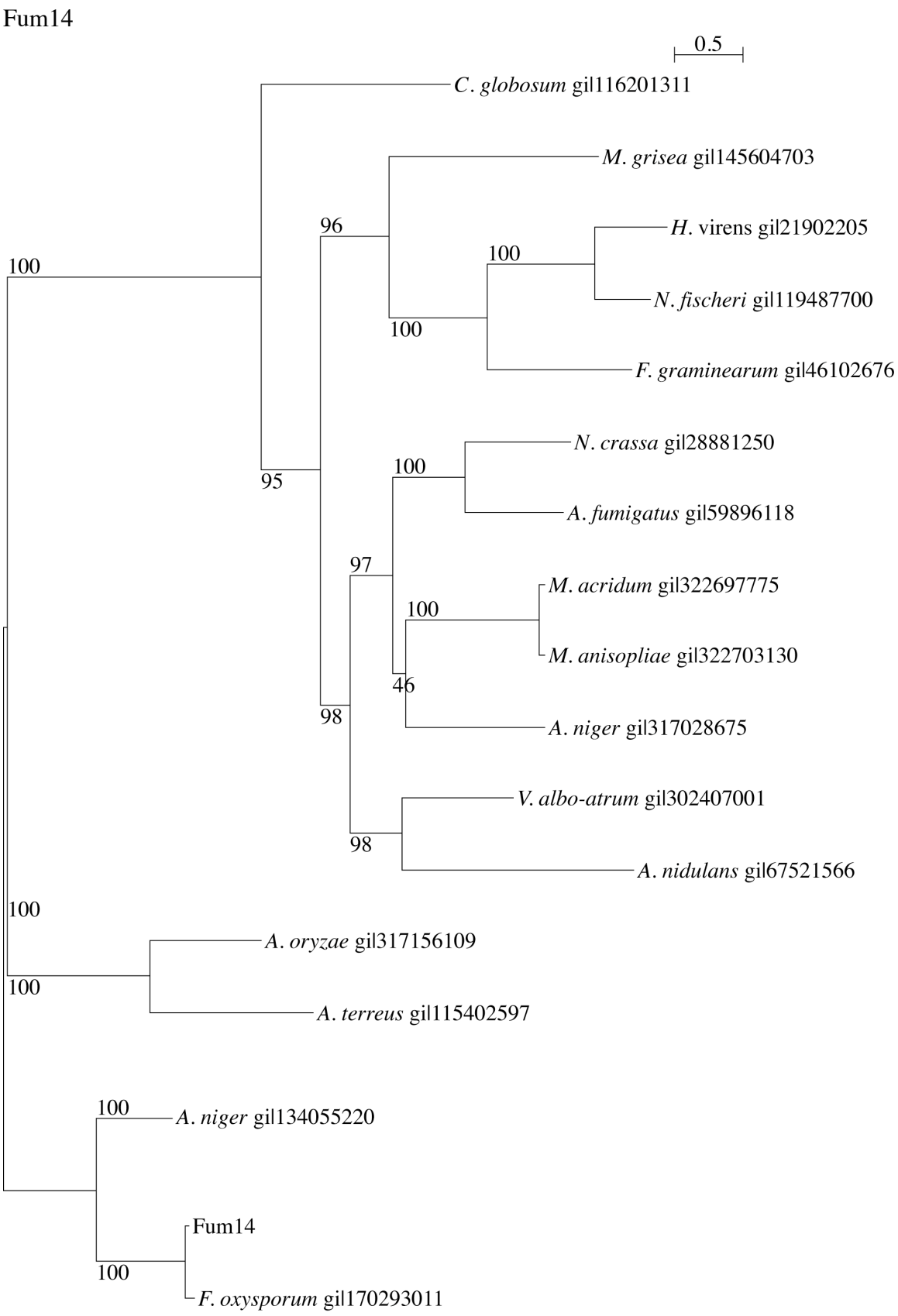

0.2
P. aeruginosa gil254240660
N. haematococca gil302910538
C. globosum gil116197034
79
G. clavigera gil320592507
Fum9
100
64
F. oxysporum gil170293004
89
A. niger gil145229601
100
M. anisopliae gil322704292
A. clavatus gil121714885
94
A. gypseum gil315053147
100
100
A. benhamiae gil302500547
C. posadasii gil303314965
59
100
C. immitis gil119181131
46
N. fischeri gil119490154
99
A. fumigatus gil70998865

FUM10

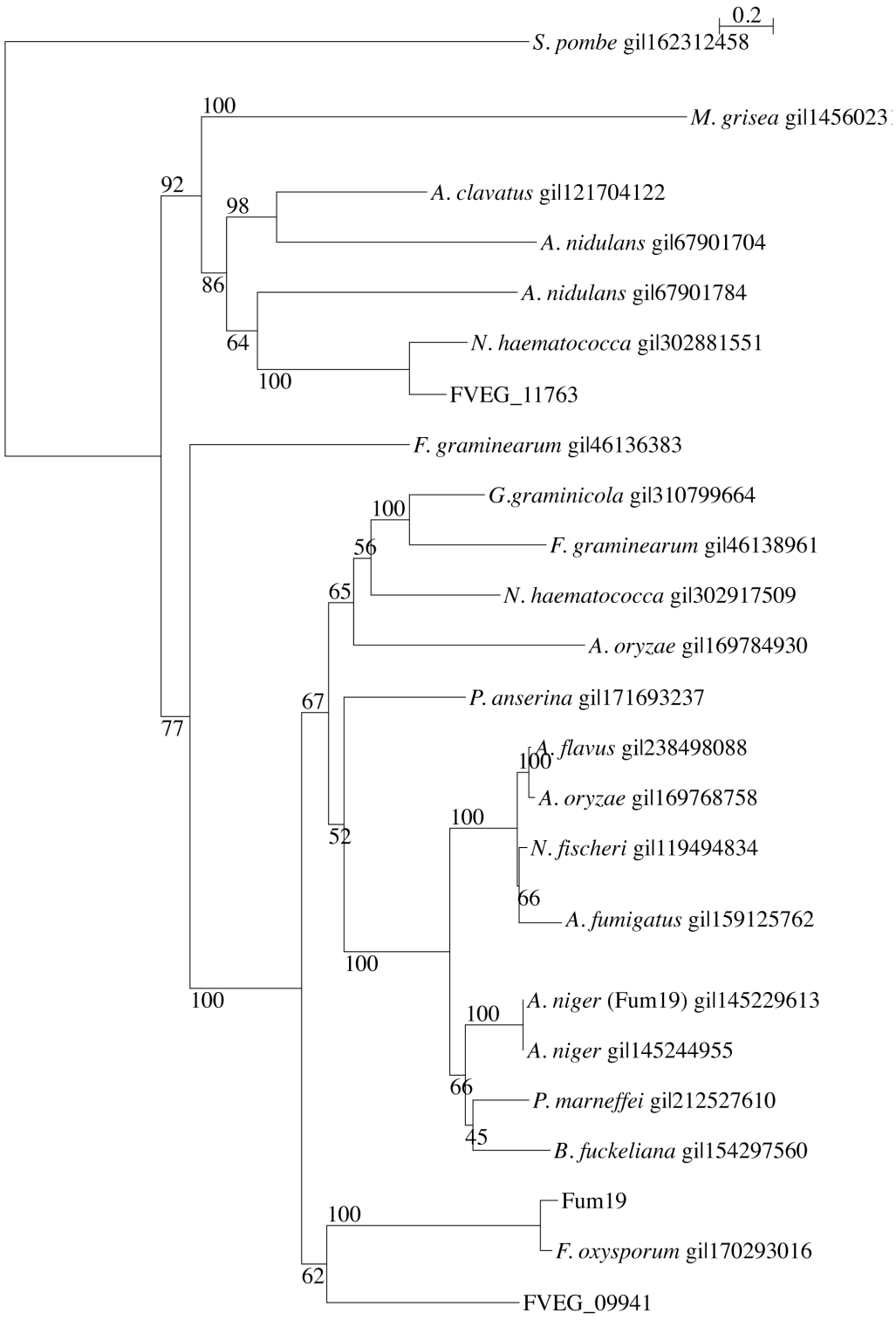

0.2
Fum10
96
FVEG_00321
100
F. oxysporum gil170293008
96
A. niger gil317026164
100
A. terreus gil115402905
C. immitis gil119188141
100
C. posadasii gil303316532
100
U. reesii gil258568246
91
A. gypseum gil315056855
50
100
T. verrucosum gil302657501
100
A. capsulatus gil240280045
A. flavus gil238491880
99
F. graminearum gil46137693
G. graminicola gil310796871
100
S. macrospora gil289618818
100
65
N. crassa gil28950137
90
P. anserina gil171694393
71
M. grisea gil145603208
S. pombe gil19076049

FUM13


0.2
Fum 13
F. oxysporum gil170293010
A. niger gil145229605
P. nordorum gil169617483
P. nordorum gil169608622
N. haematococca gil302882584
M. grisea gil39977365
N. crassa gil85090024
G. graminicole gil310791347
N. haematococca gil302886222
N. haematococca gil302889437
A. oryzae gil169766168
A. niger gil145245954
N. fischeri gil119488173
B. fuckeliana gil154298584
A. fumigatus gil71002880
N. fischeri gil119482465
A. clavatus gil121711922
A. niger gil145258292
A. niger gil145239707
P. chrysogenum gil255930169
P. chrysogenum gil255951280
S. pombe gil19114893
100
100
100
36
49
41
80
100
98
86
100
100
100
95
70
56
78
77
74
100
98


Fum14
0.5
C. globosum gil116201311
M. grisea gil145604703
H. virens gil21902205
N. fischeri gil119487700
F. graminearum gil46102676
N. crassa gil28881250
A. fumigatus gil59896118
M. acridum gil322697775
M. anisopliae gil322703130
A. niger gil317028675
V. albo-atrum gil302407001
A. nidulans gil67521566
A. oryzae gil317156109
A. terreus gil115402597
A. niger gil134055220
Fum14
F. oxysporum gil170293011
100
96
100
100
100
95
100
97
100
46
98
98
100
100
100
100

Fum19


0.2
S. pombe gil162312458
100
M. grisea gil1456023
92
A. clavatus gil121704122
98
A. nidulans gil67901704
86
A. nidulans gil67901784
64
N. haematococca gil302881551
100
FVEG_11763
F. graminearum gil46136383
G.graminicola gil310799664
100
F. graminearum gil46138961
56
N. haematococca gil302917509
65
A. oryzae gil169784930
67
P. anserina gil171693237
77
A. flavus gil238498088
100
A. oryzae gil169768758
100
N. fischeri gil119494834
52
66
A. fumigatus gil159125762
100
100
A. niger (Fum19) gil145229613
100
A. niger gil145244955
66
P. marneffei gil212527610
45
B. fuckeliana gil154297560
Fum19
100
F. oxysporum gil170293016
62
FVEG_09941