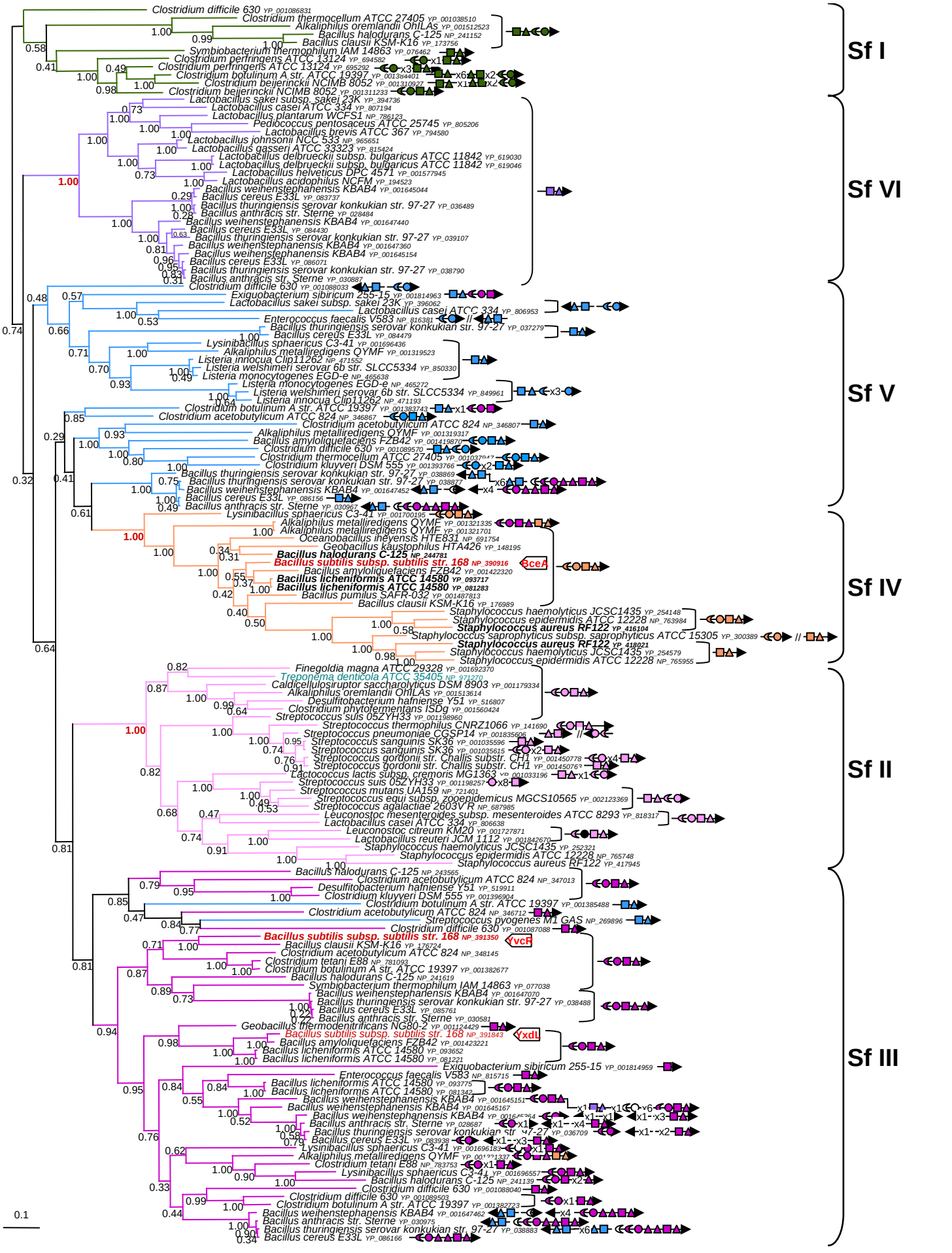
Sf I
Sf VI
Sf V
Sf IV
Sf II
Sf III
Clostridium difficile 630 YP_001086831
Clostridium thermocellum ATCC 27405 YP_001038510
Alkaliphilus oremlandii OhILAs YP_001512523
Bacillus halodurans C-125 NP_241152
Bacillus clausii KSM-K16 YP_173756
Symbiobacterium thermophilum IAM 14863 YP_076462
Clostridium perfringens ATCC 13124 YP_694582
Clostridium perfringens ATCC 13124 YP_695292
Clostridium botulinum A str. ATCC 19397 YP_001384401
Clostridium beijerinckii NCIMB 8052 YP_001310927
Clostridium beijerinckii NCIMB 8052 YP_001311233
Lactobacillus sakei subsp. sakei 23K YP_394736
Lactobacillus casei ATCC 334 YP_807194
Lactobacillus plantarum WCFS1 NP_786123
Pediococcus pentosaceus ATCC 25745 YP_805206
Lactobacillus brevis ATCC 367 YP_794580
Lactobacillus johnsonii NCC 533 NP_965651
Lactobacillus gasseri ATCC 33323 YP_815424
Lactobacillus delbrueckii subsp. bulgaricus ATCC 11842 YP_619030
Lactobacillus delbrueckii subsp. bulgaricus ATCC 11842 YP_619046
Lactobacillus helveticus DPC 4571 YP_001577945
Lactobacillus acidophilus NCFM YP_194523
Bacillus weihenstephanensis KBAB4 YP_001645044
Bacillus cereus E33L YP_083737
Bacillus thuringiensis serovar konkukian str. 97-27 YP_036489
Bacillus anthracis str. Sterne YP_028484
Bacillus weihenstephanensis KBAB4 YP_001647440
Bacillus cereus E33L YP_084430
Bacillus thuringiensis serovar konkukian str. 97-27 YP_039107
Bacillus weihenstephanensis KBAB4 YP_001647360
Bacillus weihenstephanensis KBAB4 YP_001645154
Bacillus cereus E33L YP_086071
Bacillus thuringiensis serovar konkukian str. 97-27 YP_038790
Bacillus anthracis str. Sterne YP_030887
Clostridium difficile 630 YP_001088033
Exiguobacterium sibiricum 255-15 YP_001814963
Lactobacillus sakei subsp. sakei 23K YP_396062
Lactobacillus casei ATCC 334 YP_806953
Enterococcus faecalis V583 NP_816381
Bacillus thuringiensis serovar konkukian str. 97-27 YP_037279
Bacillus cereus E33L YP_084479
Lysinibacillus sphaericus C3-41 YP_001696436
Alkaliphilus metalliredigens QYMF YP_001319523
Listeria innocua Clip11262 NP_471552
Listeria welshimeri serovar 6b str. SLCC5334 YP_850330
Listeria monocytogenes EGD-e NP_465638
Listeria monocytogenes EGD-e NP_465272
Listeria welshimeri serovar 6b str. SLCC5334 YP_849961
Listeria innocua Clip11262 NP_471193
Clostridium botulinum A str. ATCC 19397 YP_001383743
Clostridium acetobutylicum ATCC 824 NP_346867
Clostridium acetobutylicum ATCC 824 NP_346807
Alkaliphilus metalliredigens QYMF YP_001319317
Bacillus amyloliquefaciens FZB42 YP_001419870
Clostridium difficile 630 YP_001089570
Clostridium thermocellum ATCC 27405 YP_001037047
Clostridium kluyveri DSM 555 YP_001393766
Bacillus thuringiensis serovar konkukian str. 97-27 YP_038869
Bacillus thuringiensis serovar konkukian str. 97-27 YP_038877
Bacillus weihenstephanensis KBAB4 YP_001647452
Bacillus cereus E33L YP_086156
Bacillus anthracis str. Sterne YP_030967
Lysinibacillus sphaericus C3-41 YP_001700195
Alkaliphilus metalliredigens QYMF YP_001321335
Alkaliphilus metalliredigens QYMF YP_001321701
Oceanobacillus iheyensis HTE831 NP_691754
Geobacillus kaustophilus HTA426 YP_148195
Bacillus halodurans C-125 NP_244781
Bacillus subtilis subsp. subtilis str. 168 NP_390916
BceA
Bacillus amyloliquefaciens FZB42 YP_001422320
Bacillus licheniformis ATCC 14580 YP_093717
Bacillus licheniformis ATCC 14580 YP_081283
Bacillus pumilus SAFR-032 YP_001487813
Bacillus clausii KSM-K16 YP_176989
Staphylococcus haemolyticus JCSC1435 YP_254148
Staphylococcus epidermidis ATCC 12228 NP_763984
Staphylococcus aureus RF122 YP_416104
Staphylococcus saprophyticus subsp. saprophyticus ATCC 15305 YP_300389
Staphylococcus aureus RF122 YP_418021
Staphylococcus haemolyticus JCSC1435 YP_254579
Staphylococcus epidermidis ATCC 12228 NP_765955
Finegoldia magna ATCC 29328 YP_001692370
Treponema denticola ATCC 35405 NP_971270
Caldicellulosiruptor saccharolyticus DSM 8903 YP_001179334
Alkaliphilus oremlandii OhILAs YP_001513614
Desulfitobacterium hafniense Y51 YP_516807
Clostridium phytofermentans ISDg YP_001560424
Streptococcus suis 05ZYH33 YP_001198960
Streptococcus thermophilus CNRZ1066 YP_141690
Streptococcus pneumoniae CGSP14 YP_001835606
Streptococcus sanguinis SK36 YP_001035596
Streptococcus sanguinis SK36 YP_001035615
Streptococcus gordonii str. Challis substr. CH1 YP_001450778
Streptococcus gordonii str. Challis substr. CH1 YP_001450763
Lactococcus lactis subsp. cremoris MG1363 YP_001033196
Streptococcus suis 05ZYH33 YP_001198257
Streptococcus mutans UA159 NP_721401
Streptococcus equi subsp. zooepidemicus MGCS10565 YP_002123369
Streptococcus agalactiae 2603V R NP_687985
Leuconostoc mesenteroides subsp. mesenteroides ATCC 8293 YP_818317
Lactobacillus casei ATCC 334 YP_806638
Leuconostoc citreum KM20 YP_001727871
Lactobacillus reuteri JCM 1112 YP_001842670
Staphylococcus haemolyticus JCSC1435 YP_252321
Staphylococcus epidermidis ATCC 12228 NP_765748
Staphylococcus aureus RF122 YP_417945
Bacillus halodurans C-125 NP_243565
Clostridium acetobutylicum ATCC 824 NP_347013
Desulfitobacterium hafniense Y51 YP_519911
Clostridium kluyveri DSM 555 YP_001396904
Clostridium botulinum A str. ATCC 19397 YP_001385488
Clostridium acetobutylicum ATCC 824 NP_346712
Streptococcus pyogenes M1 GAS NP_269896
Clostridium difficile 630 YP_001087088
Bacillus subtilis subsp. subtilis str. 168 NP_391350
yvcR
Bacillus clausii KSM-K16 YP_176724
Clostridium acetobutylicum ATCC 824 NP_348145
Clostridium tetani E88 NP_781093
Clostridium botulinum A str. ATCC 19397 YP_001382677
Bacillus halodurans C-125 NP_241819
Symbiobacterium thermophilum IAM 14863 YP_077038
Bacillus weihenstephanensis KBAB4 YP_001647070
Bacillus thuringiensis serovar konkukian str. 97-27 YP_038488
Bacillus cereus E33L YP_085761
Bacillus anthracis str. Sterne YP_030581
Geobacillus thermodenitrificans NG80-2 YP_001124429
Bacillus subtilis subsp. subtilis str. 168 NP_391843
yxdL
Bacillus amyloliquefaciens FZB42 YP_001423221
Bacillus licheniformis ATCC 14580 YP_093652
Bacillus licheniformis ATCC 14580 YP_081221
Exiguobacterium sibiricum 255-15 YP_001814959
Enterococcus faecalis V583 NP_815715
Bacillus licheniformis ATCC 14580 YP_093775
Bacillus licheniformis ATCC 14580 YP_081342
Bacillus weihenstephanensis KBAB4 YP_001645151
Bacillus weihenstephanensis KBAB4 YP_001645167
Bacillus weihenstephanensis KBAB4 YP_001647264
Bacillus anthracis str. Sterne YP_028687
Bacillus thuringiensis serovar konkukian str. 97-27 YP_036709
Bacillus cereus E33L YP_083938
Lysinibacillus sphaericus C3-41 YP_001696183
Alkaliphilus metalliredigens QYMF YP_001321337
Clostridium tetani E88 NP_783753
Lysinibacillus sphaericus C3-41 YP_001696557
Bacillus halodurans C-125 NP_241139
Clostridium difficile 630 YP_001088040
Clostridium difficile 630 YP_001089503
Clostridium botulinum A str. ATCC 19397 YP_001382723
Bacillus weihenstephanensis KBAB4 YP_001647462
Bacillus anthracis str. Sterne YP_030975
Bacillus thuringiensis serovar konkukian str. 97-27 YP_038883
Bacillus cereus E33L YP_086166
0.1